

# SCALE: 1" = 2,000'±



## **AERIAL MAP** SCALE: 1" = 150'±

### PLAN REFERENCE MATERIALS:

1. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO:

- ALTA / NSPS LAND TITLE SURVEY PREPARED BY KEM-TEC & ASSOCIATES DATED 03/24/2023 ARCHITECTURAL PLANS PREPARED BY REB ARCHITECTS
- DATED 03/28/2023 GEOTECHNICAL REPORT COMPETED BY G2 CONSULTING
- GROUP DATED 02/05/2023 • PHASE 1 ENVIRONMENTAL REPORT BY G2 CONSULTING
- GROUP DATED 12/06/2022 • PHASE II ENVIRONMENTAL REPORT BY G2 CONSULTING
- GROUP DATED 01/31/2023 AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO
- 01/24/2022 LOCATION MAP OBTAINED FROM USGS ONLINE MAPPER
- 01/24/2023 2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS **RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND** REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.



## PLANS PREPARED BY:



Detroit, MI New York, NY Boston, MA Princeton, NJ · Tampa, FL · Rutherford, NJ www.stonefieldeng.com

607 Shelby Suite 200, Detroit, MI 48226 Phone 248.247.1115

ROCHESTER	JNRNB2022-0012 PSP2023-0012 Revision #6 Received 8/24/2023	City of Rochester Hills Planning & Economic Development		DVAL SVAL SVAL DVAL DVAL DVAL AL AL
Reviewed for Conditions and mar	<b>Site Plan Revi</b> compliance with City Ordinance k-ups noted throughout plan set approval	<b>EW</b> , Building and Fire Codes must be addressed prior to final	EROP, LLC 3130 NORTH KANDY LANE	CITY COUNCIL APPRO ILES ILES ND IMPROVEMENT PE CITY COUNCIL APPRO CITY COUNCIL APPRO CITY COUNCIL APPRO TY COUNCIL APPROV
Department	Reviewer	Approved	DECATUR, ILLINOIS 62526 217-972-4296 JEFFJ@HYPERSHINECW.COM	ION FOR VER PROF ION FOR ION FOR ION FOR
Assessing	Assessing	Yes	ARCHITECT	SUBMISS ORM SEV JBMISSIO SUBMISS SUBMISS JBMISSIO
Building	Mark Artinian 248-841-2446 ArtinianM@RochesterHills.org	Yes	REB ARCHITECTS 103 WIND HAVEN DR. SUITE 101	EM RE EM ST WIRC SL WIRC RE WIRC RE WIRC RE WIRC RE
Engineering - Utilities	Jason Boughton 248-841-2490 BoughtonJ@RochesterHills.org	) Yes	NICHOLASVILLE, KENTUCKY 40356 859-523-1500 BBYRGE@REBARCH COM	/2023 /2023 /2023 /2023 EI /2023 EI /2023 EI /2023 EI
Engineering Legal	Jenny McGuckin 248-841-2494 mcguckinj@rochesterhills.org	YES		08/22 08/11 08/11 03/31 05/05 05/05
Fire	Lt. Walter Murphy 248-84 MurphyW@RochesterHills.or	-2712 Yes		
Natural Resources	Matt Einheuser 248-841-255 EinheuserM@RochesterHills.or	1 Yes	With condition that the cross walk	NOT APPROVED FOR CONSTRUCTION
Planning	Chris McLeod 248-841-2572 mcleodc@RochesterHills.org	Yes	location and Pathway extension is addressed prior to construction plan	
Traffic	Keith Depp 248-841-2503 DeppK@RochesterHills.org	Yes	location is reflected on the final Site Plan.	d, NJ 226
S ADAMS R	ROAD		CONING KEY     I - INDUSTRIAL     O1 - OFFICE	<b>Bagineering 8</b> Betroit, MI • New York, NV Princeton, NJ • Tampa, FL • www.stonefieldeng 607 Shelby Suite 200, Detr Phone 248.247.1
PROJEC	CT (1)			OPMENT PLANS LLC LLC DLC DCAR WASH DCAR WASH DC-031 S ROAD S ROAD
ZONIN	G MAP			OSE OSE
SCALE: 1"	= 100'±			CEL ID CEL ID
ADDIT	IONAL SHEETS	SF		
ALTA / NSPS I AND TIT	E SURVEY 10	DRAWING TIT     F 1   COVER SHEET	SHEET #           C-1	STE OF MICH
CITY WATER MAIN STA	NDARD DETAILS 1 O	F 3 DEMOLITION PLAN	C-2	IONATHANREID
CITY WATER MAIN STA	NDARD DETAILS 2 O	F 3 SITE PLAN	C-3	- CHI / ENGINEER
CITY WATER MAIN STA	NDARD DETAILS 3 O	F 3 GRADING PLAN	C-4	HIGHIGAN CENSE No. 6491059428. LICENVED PROFESSIONAL ENCINEER
CITY SANITARY SEWER	STANDARD DETAILS 1 O		AGEMENT PLAN C-5	I FESSION
CITY STORM SYSTEM ST	TANDARD DETAILS 20	F 1 UTILITY PLAN	C-7	engineering & design
OAKLAND COUNTY W	I O I O I O I O I O I O I O I O I O I O	F 1 FIRE PROTECTION P	LAN C-8	CITY FILE #22-043 SECTION #30

LIGHTING PLAN

LANDSCAPING PLAN

LANDSCAPING DETAILS

CONSTRUCTION DETAILS

SIGHT DISTANCE PLAN

SOIL EROSION & SEDIMENT CONTROL PLAN

The applicant needs to submit a Land Improvement Permit (LIP) application with engineer's estimate, fee and construction plans to proceed with the construction plan review process.

C-9

C-10

C-11

C-12

C-13 TO C-18

C-19

SCALE: AS SHOWN PROJECT ID: DET-220436

**COVER SHEET** 

**C-1** 

TITLE:

DRAWING:

	000	RECOMMENDATION	REGULATED <sup>(1)</sup> / SPECIMEN <sup>(2)</sup>	COMMON NAME	BOTANICAL NAME	SIZE	KEY
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	7" D.B.H.	#9109
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	8" D.B.H.	#9110
26-327(2)	§ 126	TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	7" D.B.H.	#9111
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	8" D.B.H.	#9112
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	8" D.B.H.	#9113
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	7" D.B.H.	<i></i> #9114
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6", 6" D.B.H.	#9115
		TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6", 5" D.B.H.	#9116
26-397.	§ 126	TO BE REMOVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6" D.B.H.	#9117
		TO BE REMOVED	REGULATED	BOXELDER	ACER NEGUNDO	7", 6", 5" D.B.H.	#9118
26-397.(1)	§ 126	TO BE SAVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6" D.B.H.	#9119
		TO BE SAVED	REGULATED	BOXELDER	ACER NEGUNDO	10", 5", 5" D.B.H.	#9121
		TO BE SAVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	7" D.B.H.	#9122
		TO BE SAVED	REGULATED	TREE OF HEAVEN	All ANTHUS ALTISSIMA	10" D.B.H.	#9123
		TO BE SAVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6" D.B.H.	#9124
		TO BE SAVED	REGULATED	BOXELDER	ACER NEGUNDO	6", 11" D.B.H.	#9125
PER § 126-26	(1)	TO BE SAVED	REGULATED	WALNUT	JUGLANS SPP.	7" D.B.H.	#9126
PER § 126-32	(2)	TO BE SAVED	REGULATED	TREE OF HEAVEN	AILANTHUS AI TISSIMA	6" D.B.H.	#9127
CALCULATI	. /	TO BE SAVED	REGULATED	BOXFI DFR	ACER NEGUNDO	7", 7" D.B.H.	#9128
I HE PROPO		TO BE SAVED	REGULATED			6" D R H	#9133
PER § 126-26	(3)		REGULATED			7" D R H	#913 <u>/</u>
			REGULATED			, דו.ט.ח. 7" הגיים די	#9135
			REGULATED			, דיסיט. קייט. קייט.	#0136
			REGULATED			רו.ט.ט. ז. דו.ט.ט. ז. 7" רו.ט.ט.	40137
						ח.ט.ט. ז , ז. ם ם חייד	#0130
						י ג'יע.ם.ה. 8" א"ראם	40130
				BLACK LOCUST		ט, א ט.ט.ח. 1/ו" 12" הפט	#01/10
						14,13 D.B.H.	+9140 #0141
						7 D.B.H.	F9141
						7,3 D.b.п.	F9142
						/ D.B.H.	#9143
						6 D.B.H.	#9144 #0145
			REGULATED			6 D.B.H.	#9145
			REGULATED			0 D.B.H.	+9140 #0147
		I O BE SAVED				/ D.B.H.	#914/
			REGULATED			8" D.B.H.	#9148
			REGULATED	I REE OF HEAVEN	AILAN I HUS AL LISSIMA	10" D.B.H.	#9149
			REGULATED	I REE OF HEAVEN	AILAN I HUS ALTISSIMA	6" D.B.H.	#9150
		I O BE SAVED	REGULATED	I REE OF HEAVEN	AILANTHUS ALTISSIMA	6" D.B.H.	#9151
			REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	8" D.B.H.	#9152
		TO BE SAVED	REGULATED	TREE OF HEAVEN	AILANTHUS ALTISSIMA	6" D.B.H.	#9153
		to be saved	NOT REGULATED	SIBERIAN ELM	ULMUS PUMILA	5" D.B.H.	#9154
		to be saved	REGULATED	SIBERIAN ELM	ULMUS PUMILA	6" D.B.H.	#9155
		to be saved	REGULATED	SCOTCH PINE	PINUS SYLVESTRIS	6", 5" D.B.H.	#9156
		to be saved	REGULATED	BLACK CHERRY	PRUNUS SEROTINA	7" D.B.H.	#9157
		to be saved	REGULATED	BLACK CHERRY	PRUNUS SEROTINA	6" D.B.H.	#9158
		to be saved	REGULATED	BLACK CHERRY	PRUNUS SEROTINA	7" D.B.H.	#9159
		to be saved	REGULATED	BOXELDER	ACER NEGUNDO	13", 9" D.B.H.	#9160
		TO BE SAVED	SPECIMEN	SIBERIAN ELM	ULMUS PUMILA	27" D.B.H.	#9162
		to be saved	REGULATED	MULBERRY	MORUS SPP.	8" D.B.H.	#9163
		to be saved	REGULATED	SIBERIAN ELM	ULMUS PUMILA	10" D.B.H.	#9164
		to be saved	REGULATED	MULBERRY	MORUS SPP.	17", 7" D.B.H.	#9165
		TO BE SAVED	SPECIMEN	SIBERIAN ELM	ULMUS PUMILA	28" D.B.H.	#9166

(\*)

(10) ARE RECOMMENDED TO BE SAVED, AND FORTY (40) ARE RECOMMENDED TO BE REMOVED.

PER § 126-261, SPECIMEN TREES INCLUDE ALL TREES THAT ARE 24" DBH OR GREATER. A TOTAL OF TWO (2) SPECIMEN TREES ARE FOUND ON SITE AND ARE (2) RECOMMENDED TO BE SAVED.



	TREE MITIGATION REQUIR	EMENTS
ECTION	REQUIRED	PROPOSED
	MINIMUM PRESERVATION PERCENTAGE	
(2)	40% OF THE TOTAL NUMBER OF REGULATED TREES <sup>(1)</sup> THAT EXIST WITHIN THE LAND AREA BEING DEVELOPED SHALL BE PRESERVED <sup>(2)</sup>	
	50 TOTAL REGULATED TREES <sup>(1) (2)</sup>	
	(50 TREES) * (0.40) = 20 REGULATED TREES REQUIRED TO BE PRESERVED	COMPLIES; 31 REGULATED TREES TO BE PRESERVED
	TREE REPLACEMENT	
	REGULATED TREES SHALL BE REPLACED ON A 1 TO 1 BASIS	
(1)	19 REGULATED TREES TO BE REMOVED = 19 REPLACEMENT TREES MINIMUM TREE SIZE: 2" CALIPER	4" TREE REPLACEMENT CREDIT 17 REPLACEMENT TREES PROPOSED
.(')	FOR EACH SPECIMEN TREE <sup>(3)</sup> TO BE PRESERVED A 2" TREE REPLACEMENT CREDIT SHALL BE CREDITED	
	2 SPECIMEN TREES TO BE PRESERVED	
	(2 TREE) * (2") = 4" TOTAL TREE REPLACEMENT CREDIT	4" TREE REPLACEMENT CREDIT TO BE COUNTED TOWARDS REGULATED TREE REPLACEMENT

ER § 126-261, REGULATED TREES INCLUDE ALL TREES HAVING 6" DBH OR GREATER.

ER § 126-327(2), TREES CONTAINED WITHIN THE PROPOSED BUILDING ENVELOPE SHALL NOT BE INCLUDED IN THE ALCULATION OF THE REQUIRED MINIMUM PRESERVATION PERCENTAGE. THERE ARE ZERO (0) TREES CONTAINED WITHIN HE PROPOSED BUILDING ENVELOPE.

ER § 126-261, SPECIMEN TREES INCLUDE ALL TREES THAT ARE 24" DBH OR GREATER.





022\DET-220436-EROP LLC-2737 SOUTH ADAMS ROAD, ROCHESTER HILLS, MI\CADD\PLOT\SDP-



21M878 6

876.90(E)

BC 877.00

876.5

876.92

TC 876.50 BC 876.00

1.29%

TC 876.80 BC 876.30

1.08%

G 876.55

STM. M

G 876.75

G 876.80

G 876.70

876.70

876.75

876.80

876.85

875.90

875.40

876.40

G 876.70(EX)

876.80

BC 876.30

C 876.5

TC 877.40 BC 876.90

876.8

NUM 120030	TYPE STORM CB	RIM (FT)	SIZE (IN)	DID	to the set of the set of the set			1947 D 4 10 10 00 00 00 00		
120030	STORM CB	070 22		DIR	INV ELEV (FT)	NUM	TYPE	RIM (FT)	SIZE (IN)	DIR
		875.22	12	N	870.62	120170	STORM MH	879.41	18	E
		875.22	T/WAT	ER	870.72			879.41	18	w
		875.22	B/STRUC	TURE	868.82	120182	STORM CB	878.23	12	NE
120031	STORM CB	875.21	12	E	870.21			878.23	T/WAT	ER
120151	SEWER MH	875.21	T/WAT	ER	870.81			878.23	B/STRUC	TURE
		875.21	B/STRUC	TURE	869.01	120183	STORM MH	878.57	24	E
120043	STORM CB	875.96	NO VISIBL	E PIPES				878.57	12	SW
		875.96	T/WAT	ER	872.75			878.57	18	w
		875.96	B/STRUC	TURE	871.56	120218	STORM MH	877.47	24	E
120060	STORM CB	877.14	NO VISIBL	E PIPES				877.47	24	w
		877.14	T/WAT	ER	873.84	120255	STORM CB	876.40	12	NE
		877.14	B/STRUCTURE		872.24			876.40	T/WAT	ER
120078	STORM CB	878.37	NO VISIBLE PIPES					876.40	B/STRUC	TURE
		878.37	T/WAT	ER	874.72	120256	STORM MH	877.06	24	E
		878.37	B/STRUC	TURE	873.67			877.06	12	SW
120119 5	SANITARY MH	878.10	8	E	864.95			877.06	24	w
		878.10	8	w	865.00	120287	STORM MH	875.98	24	E
120120 5	SANITARY MH	878.31	8	Е	865.41			875.98	12	SW
		878.31	8	w	865.41			875.98	24	w
120123	STORM CB	881.85	12	E	875.85	120288	STORM CB	875.04	12	s
		881.85	12	S	876.15			875.04	T/WAT	ER
120134	STORM MH	881.21	15	E	874.91			875.04	B/STRUC	TURE
		881.21	12	w	875.91	120309	STORM MH	874.68	24	E
120142	STORM MH	881.01	18	E	873.51			874.68	24	w
		881.01	15	w	874.61	120435	STORM CB	881.56	12	Ε
120157	STORM CB	879.57	12	NE	874.27			881.56	12	w
		879.57	T/WAT	ER	874.17	120436	STORM CB	881.22	12	N
		879.57	B/STRUC	TURE	872.37			881.22	12	w
120158	STORM MH	880.20	18	E	872.70	120437	STORM CB	881.61	12	SE
		880.20	18	w	872.70			881.61	12	w

STM. MH

876.60

876.50

G 876.80

G 876.65

G 876.70

G 876.90

G 876.80

G 877.40

G 877.30

G 877.60

#120256

STM. CE

#120255

G 876.40

G 876.75

G 876.70

\*

876.60

G 876.45

6:1 SLOPE



RIM876.54







PROPOSED GRADING CONTOUR PROPOSED GRADING RIDGELINE PROPOSED DIRECTION OF DRAINAGE FLOW PROPOSED GRADE SPOT SHOT PROPOSED TOP OF CURB / BOTTOM OF CURB SPOT SHOT PROPOSED FLUSH CURB SPOT SHOT PROPOSED TOP OF WALL / BOTTOM OF WALL SPOT SHOT

### **GRADING NOTES**

**×** FC 100.00

**X** TW 102.00 BW 100.00

- 1. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE. 2. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR
- PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS. 3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7
- INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS. 4. THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY
- COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY ALITHOPITY PECILI ATIONS 5. MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:

#### CURB GUTTER: 0.50% CONCRETE SURFACES: 1.00% ASPHALT SURFACES:

1.00% 5. A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET. FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

### **ADA NOTES**

- 1. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.
- 2. THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM, AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. 5. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING
- SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00% IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP. FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.
- 6. ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP. 7. A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE
- ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS. 8. THE CONTRACTOR SHALL ENSURE A MAXIMUM OF 1/4 INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN 1/4 INCHES AND 1/2 INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP 1/4 INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN 1 UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE). 9. THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL





					STORM	1WATE	R SYST	EM DES	IGN (10	-YEAR S	STORM)						
Line #	Line ID	Rim Elevation Downstream (FT)	Rim Elevation Upstream (FT)	Invert Downstream (FT)	Invert Upstream (FT)	Pipe Size (IN)	Pipe Length (FT)	Pipe Slope (%)	Flow Rate (CFS)	Pipe Capacity (CFS)	Velocity Downstream (FPS)	HGL Downstream (FT)	HGL Upstream (FT)	Drainage Area (AC)	Runoff Coefficient	Time of Concentration (MIN)	Rainfall Intensity (IN/HR)
I	120256-OS1	877.06	873.32	868.06	868.84	15	170	0.46	0.94	4.37	0.77	869.31	869.40	0.00	0.00	10.00	4.80
2	EWI-WQI	868.92	876.00	868.92	869.31	18	79	0.50	4.97	7.47	2.82	870.42	870.56	0.00	0.00	14.10	4.80
3	WQI-DI0I	876.00	875.25	869.41	869.47	18	11	0.50	4.98	7.76	3.32	870.60	870.62	0.35	0.60	14.10	4.80
4	D101-D102	875.25	875.50	869.47	870.20	15	147	0.50	2.96	4.55	2.41	870.75	871.06	0.25	0.86	13.20	4.80
5	D102-D103	875.50	875.50	870.20	870.79	12	117	0.50	2.04	2.53	2.60	871.31	871.66	0.27	0.76	11.50	4.80
6	D103-D104	875.50	876.50	870.79	871.23	12	88	0.50	0.83	2.52	1.06	871.84	871.89	0.36	0.48	10.00	4.80
7	D101-D201	875.25	876.00	871.96	872.88	12	91	1.00	1.45	3.58	4.32	872.40	873.39	0.04	0.95	10.80	4.80
8	D-201-Y101	876.00	877.00	872.96	873.21	12	49	0.50	1.29	2.54	3.25	873.46	873.71	0.30	0.46	10.60	4.80
9	D102-D301	875.50	875.75	870.20	870.44	12	47	0.50	0.18	2.54	0.23	871.31	871.31	0.04	0.95	10.00	4.80
10	D103-D401	875.50	875.75	870.79	871.03	12	47	0.50	0.37	2.55	0.47	871.84	871.85	0.09	0.86	10.00	4.80
	Y-101 TO Y-102	876.80	876.80	873.21	873.41	12	40	0.50	0.66	2.52	1.42	873.78	873.81	0.00	0.00	10.20	4.80
12	Y-102 TO Y-103	876.80	876.80	873.41	873.51	12	20	0.50	0.66	2.52	2.17	873.82	873.86 j	0.00	0.00	10.10	4.80
13	Y-103 TO Y-104	876.80	875.80	873.61	873.65	12	8	0.50	0.66	2.52	2.57	873.97	874.00 j	0.30	0.46	10.00	4.80
*C-Values obtaine	d from Rochester Hills Eng	ineering Design Sto	andards			•						,				·	

\*\* j-Line contains hyd. Jump

### **10-YEAR STORM CONVEYANCE COMPUTATIONS**



'2022/DET-220436-EROP LLC-2737 SOUTH ADAMS ROAD, ROCHESTER HILLS, MICADD/PLOT/SDP-05-STR

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)	NUM	TYPE	RIM (FT)	SIZE (IN)	DIR
20030	STORM CB	875.22	12	N	870.62	120170	STORM MH	879.41	18	Ε
		875.22	T/WAT	ER	870.72			879.41	18	w
		875.22	B/STRUC	TURE	868.82	120182	STORM CB	878.23	12	NE
20031	STORM CB	875.21	12	E	870.21			878.23	T/WAT	ER
20151	SEWER MH	875.21	T/WAT	ER	870.81			878.23	B/STRUC	TURE
		875.21	B/STRUC	TURE	869.01	120183	STORM MH	878.57	24	E
20043	STORM CB	875.96	NO VISIBLE	E PIPES				878.57	12	SW
		875.96	T/WAT	ER	872.75			878.57	18	w
		875.96	B/STRUC	TURE	871.56	120218	STORM MH	877.47	24	E
20060	STORM CB	877.14	NO VISIBLE	E PIPES				877.47	24	w
		877.14	T/WAT	ER	873.84	120255	STORM CB	876.40	12	NE
		877.14	B/STRUC	TURE	872.24			876.40	T/WAT	ER
20078	STORM CB	878.37	NO VISIBLE PIPES					876.40	B/STRUC	TURE
		878.37	T/WAT	ER	874.72	120256	STORM MH	877.06	24	E
		878.37	B/STRUC	TURE	873.67			877.06	12	SW
20119	SANITARY MH	878.10	8	E	864.95			877.06	24	w
		878.10	8	w	865.00	120287	STORM MH	875.98	24	E
120120	SANITARY MH	878.31	8	Е	865.41			875.98	12	SW
		878.31	8	w	865.41			875.98	24	w
20123	STORM CB	881.85	12	Ε	875.85	120288	STORM CB	875.04	12	s
		881.85	12	S	876.15			875.04	T/WAT	ER
20134	STORM MH	881.21	15	E	874.91			875.04	B/STRUC	TURE
		881.21	12	w	875.91	120309	STORM MH	874.68	24	E
20142	STORM MH	881.01	18	E	873.51			874.68	24	w
		881.01	15	w	874.61	120435	STORM CB	881.56	12	E
20157	STORM CB	879.57	12	NE	874.27			881.56	12	w
		879.57	T/WAT	ER	874.17	120436	STORM CB	881.22	12	N
		879.57	B/STRUC	TURE	872.37			881.22	12	w
20158	STORM MH	880.20	18	E	872.70	120437	STORM CB	881.61	12	SE
		880.20	18	w	872.70	100000000000000000000000000000000000000		881.61	12	W

### **EXISTING MANHOLE SCHEDULE**





- THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR STORMWATER IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING.
   CONTRACTOR SHALL START CONSTRUCTION OF STORM LINES AT THE LOWEST INVERT AND WORK UP-GRADIENT.
- THE LOWEST INVERTAND WORK UP-GRADIENT.
   THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
   THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE
- AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
- EXCAVATION, SOIL PREPARATION, AND DEWATERING NOTES
- THE CONTRACTOR IS REQUIRED TO REVIEW THE REFERENCED GEOTECHNICAL DOCUMENTS PRIOR TO CONSTRUCTION, THESE DOCUMENTS SHALL BE CONSIDERED A PART OF THE PLAN SET.
   THE CONTRACTOR IS REQUIRED TO PREPARE SUBGRADE SOILS BENEATH ALL PROPOSED IMPROVEMENTS AND BACKFILL ALL EXCAVATIONS IN ACCORDANCE WITH RECOMMENDATIONS BY THE
- GEOTECHNICAL ENGINEER OF RECORD.
  THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHORING FOR ALL EXCAVATIONS AS REQUIRED. CONTRACTOR SHALL HAVE THE SHORING DESIGN PREPARED BY A QUALIFIED PROFESSIONAL. SHORING DESIGNS SHALL BE SUBMITTED TO STONEFIELD ENGINEERING & DESIGN, LLC. AND THE OWNER PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OPEN EXCAVATIONS ARE PERFORMED AND PROTECTED IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS.
   THE CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING DESIGN AND OPERATIONS, AS REQUIRED, TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEWATERING OPERATIONS AND GROUNDWATER DISPOSAL.

30' 0' 30' 60' GRAPHIC SCALE IN FEET 1" = 30'







- NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING. 2. CONTRACTOR SHALL START CONSTRUCTION OF STORM LINES AT THE LOWEST INVERT AND WORK UP-GRADIENT. 3. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND
- UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING. 4. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE
- AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.

**EXCAVATION, SOIL PREPARATION, AND DEWATERING NOTES** 

- 1. THE CONTRACTOR IS REQUIRED TO REVIEW THE REFERENCED GEOTECHNICAL DOCUMENTS PRIOR TO CONSTRUCTION, THESE DOCUMENTS SHALL BE CONSIDERED A PART OF THE PLAN SET. 2. THE CONTRACTOR IS REQUIRED TO PREPARE SUBGRADE SOILS BENEATH ALL PROPOSED IMPROVEMENTS AND BACKFILL ALL EXCAVATIONS IN ACCORDANCE WITH RECOMMENDATIONS BY THE
- GEOTECHNICAL ENGINEER OF RECORD. 3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHORING FOR ALL EXCAVATIONS AS REQUIRED. CONTRACTOR SHALL HAVE THE SHORING DESIGN PREPARED BY A QUALIFIED PROFESSIONAL. SHORING DESIGNS SHALL BE SUBMITTED TO STONEFIELD ENGINEERING & DESIGN, LLC. AND THE OWNER PRIOR TO THE START
- OF CONSTRUCTION. 4. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL OPEN EXCAVATIONS ARE PERFORMED AND PROTECTED IN ACCORDANCE WITH THE LATEST OSHA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DEWATERING DESIGN
- AND OPERATIONS, AS REQUIRED, TO CONSTRUCT THE PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL OBTAIN ANY REQUIRED PERMITS FOR DEWATERING OPERATIONS AND GROUNDWATER DISPOSAL.

STORMWATER UNDERGROUND BMP CONSTRUCTION NOTES

- 1. THE CONTRACTOR SHALL INSTALL AND BACKFILL THE UNDERGROUND BMP IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. 2. UNDERGROUND BASINS SHALL UTILIZE A STONE BACKFILL WITH A
- MINIMUM VOID RATIO OF 40%. 3. NO CONSTRUCTION LOADING OVER UNDERGROUND BASINS IS PERMITTED UNTIL BACKFILL IS COMPLETE PER THE MANUFACTURER'S SPECIFICATIONS. NO VEHICLES SHALL BE STAGED OR OPERATE FROM A FIXED POSITION OVER THE BASIN.

Include the onsite area into the overal drainage map and size the pond accordingly

RIM876.54

GRAPHIC SCALE IN FEET

1" = 30'



![](_page_6_Figure_0.jpeg)

63.76
(000)) = 4.29

THE LATEST SANITARY BASIS OF DESIGN
COMPLETED BY THE WOODSPRING SUITES
DEVELOPMENT DATED 12/01/2015 STATES
THERE IS "0.9861 CFS AVAILABLE FOR
FUTURE DEVELOPMENTS INCLUDING THE
CRESCENT PARCEL ON THE SOUTH SIDE OF
ADAMS ROAD". THE CAR WASH PEAK
DISCHARGE IS WELL WITHIN THE DESIGN
CAPACITY AT <u>0.04 CFS</u> .

NUM	TYPE	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)	NUM	TYPE	RIM (FT)	SIZE (IN)	DIF
120030	STORM CB	875.22	12	N	870.62	120170	STORM MH	879.41	18	E
		875.22	T/WAT	ER	870.72			879.41	18	w
		875.22	B/STRUC	TURE	868.82	120182	STORM CB	878.23	12	NE
120031	STORM CB	875.21	12	E	870.21			878.23	T/WAT	ER
120151	SEWER MH	875.21	T/WAT	ER	870.81			878.23	B/STRUC	TURE
		875.21	B/STRUC	TURE	869.01	120183	STORM MH	878.57	24	E
20043	STORM CB	875.96	NO VISIBLE	E PIPES				878.57	12	SW
		875.96	T/WAT	ER	872.76			878.57	18	W
		875.96	B/STRUC	TURE	871.56	120218	STORM MH	877.47	24	E
20060	STORM CB	877.14	NO VISIBLE	E PIPES				877.47	24	w
		877.14	T/WAT	ER	873.84	120255	STORM CB	876.40	12	NE
		877.14	B/STRUC	TURE	872.24			876.40	T/WAT	ER
20078	STORM CB	878.37	NO VISIBLE	E PIPES				876.40	B/STRUCTURE	
		878.37	T/WAT	ER	874.72	120256	STORM MH	877.06	24	Ε
		878.37	B/STRUC	TURE	873.67			877.06	12	SW
120119	SANITARY MH	878.10	8	E	864.95			877.06	24	w
		878.10	8	w	865.00	120287	STORM MH	875.98	24	E
120120	SANITARY MH	878.31	8	E	865.41			875.98	12	SW
		878.31	8	w	865.41			875.98	24	W
120123	STORM CB	881.85	12	E	875.85	120288	STORM CB	875.04	12	S
		881.85	12	S	876.15			875.04	T/WAT	ER
120134	STORM MH	881.21	15	E	874.91			875.04	B/STRUC	TURE
		881.21	12	W	875.91	120309	STORM MH	874.68	24	E
120142	STORM MH	881.01	18	E	873.51			874.68	24	W
		881.01	15	w	874.61	120435	STORM CB	881.56	12	Ε
20157	STORM CB	879.57	12	NE	874.27			881.56	12	W
		879.57	T/WAT	ER	874.17	120436	STORM CB	881.22	12	N
		879.57	B/STRUC	TURE	872.37			881.22	12	w
20158	STORM MH	880.20	18	E	872.70	120437	STORM CB	881.61	12	SE
		880.20	18	w	872.70			881.61	12	w

![](_page_6_Figure_10.jpeg)

![](_page_6_Figure_11.jpeg)

THE TABLE ABOVE IS FOR MUNICIPAL REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO CONSTRUCTION.

DRAINAGE AND UTILITY NOTES

STM.

#120c

- 1. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING. 2. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN
- OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO 3. ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION.
- 4. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE
- AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC. 5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC. 6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO
- CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE APPROPRIATE GOVERNING AUTHORITY. 8. CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY
- SEWER AT THE LOWEST INVERT AND WORK UP-GRADIENT. 9. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
- 10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.

![](_page_6_Figure_22.jpeg)

![](_page_6_Figure_23.jpeg)

![](_page_7_Figure_0.jpeg)

![](_page_7_Picture_2.jpeg)

			Parameters:	
	and the second se		Inside Cramp Angle:	320
	1		Axle Track:	82
	It share		Wheel Offset:	
	Constant and the second se		Tread Width:	
Additional Bumper Depth	Avia	rack	Chassis Overhang:	68
2010	Wheel	Offset	Additional Bumper Depth:	
	Cramp	Angle	Front Overhang:	84
Chassis Overhang	Tread	Width	Wheelbase:	24
/ /4		and the second s	Calculated Turning Radii:	
1.1		1	Inside Turn:	19
			Curb to curb:	35
Wheelbase / /	0	all to W.	Wall to wall:	39
	***8 to	Curb Turning Res	Comments:	
	Inside	Turning Radius	RHFD 105' turn radius	
Category	Ontion	Description		

Jalegory	option	Description
Axle, Front, Custom	0018453	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Qtm/AXT/DCF
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Fires, Front	0594821	Tires, Front, Goodyear, G296 MSA, 425/65R22.50, 20 ply
Bumpers	0606536	Bumper, 16" Extended, Steel Painted, Arrow XT
Aerial Devices	0673137	Aerial, 105' Heavy Duty Ladder (500 dry/500 water)

SECURITY C			
POLE LABEL	NUMBER OF CAMERAS	DIRECTION OF CAMERAS	§ 138-10.201.A
A-1			§ 138-10.201.C
A-2			
A-3			§ 138-10.202.H
A-4			§ 138-10.202.E
A-5			
B-1			
B-2			
B-3			
B-4			
B-5			DESCRIPTION

§ 138-10.201.C
§ 138-10.202.H
§ 138-10.202.E

DESCRIPTION OVERALL PARCEL PROPERTY LINES

	Dutone	RIM879.36			ADA	TIXTORE C
	E RIM8/9.85	STM. MH	RIM878.65	D ASPHALT	RAMP	
SIM. мн #120170		#120183 D		A MARTIN AND A MARTIN	SAN. MH #120120	
		#120182			SAN. MH #120119	
				STM. МН #120218		
	4	120' PUBLIC RIGHT OF WAY		1 CONCRETE		ASPHALT
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	to.0 to.0 to.0 to.0 to.0 to.0 to.0 to.0	0.0 0.0 0.0 CONCRETE,0 0.0 0.0 0.0 0.0 1	0.0 0.0 0.0 0.0 LOOBODO 0.0 500 00 - 0	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	L.39684, P.62	0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	M. MH 20256 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
		STM. CB			$\frac{1}{20255}$	
	-0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0				
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	<u>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</u>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0			<u>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</u>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	$\mathbf{\hat{0}}_{0.0} \mathbf{\hat{0}}_{0.0} $	<b>0.0 0.0</b>		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
#1200780.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.1 0.0 0.0 0.0 01 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0	0.1 10.1 0.1 00 0.0 0.0 0.0 0.0		
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.2 0.1 0.1 0.1 0.1 01 0.1	ồ.1 ồ.1 ồ.0 ồ.0 ồ.0 ồ.0 ồ.0 ồ.0 ồ.0 ồ.	ō.0 ō.1 ō.1 ō.1 ō.1 ō.0 ō.0 ō.1 ō.1 ō	.2 0.3 04 0.4 0.1 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.5 0.5 0.4 0.5 0.5	<sup>0.5</sup> <sup>0.6</sup> <sup>0.6</sup> <sup>0.6</sup> <sup>0.7</sup> <sup>0</sup> 7 <sup>0.5</sup>	<u>°0.4 °0.0</u> °0.0 °0.0 °0.0 °0.0 °0.0 °0.0 °0.	ኳ.1 ፟0.3 ፟0.4 ፟0.4 ፟0.4 ፟0.2 ፟0.1 ፟0.1 ፟0.2 ້0	.4 0.7 0.8 0.8 0.4 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	10 13 17 18 19 17 • Pap	C (12') □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	01©_018_018_018_018_06_01_01_02_0	5 09 13 73 10 01 00 00 00		
0.0 0.0 0.0 0.0 <b>A-2 (20')</b>			$\begin{array}{c} 1.7 \\ \hline \end{array} \\ 1.7 \\ \hline \end{array} \\ 1.7 \\ 1.5 \\ 1.4 \\ 1.1 \\ \hline \end{array} \\ 1.7 \\ 1.7 \\ \hline \end{array} \\ 1.7 \\ \hline \end{array} \\ 1.7 \\$			
0.0  0.0  0.0  0.0  0.0  0.1  17  1.7  17  13  0.9  0.6  0.6	B-5 (20')	D (16')	<b>4</b> .1 2.6 1.8 1.8 1.7	.3 0.7 1.3 <del>1.8 1.7</del> 1.1 0.1 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.0 0.6 1.6 1.7 1.0 0.6 0.4 0.6	0.7 0.9 1.2 <b>4</b> .0 2.3 <b>3</b> .8		<u>3.5 2.3 1.6</u> 1.8 1.7 1.6 0.3 0.1 1	.3 0.6 1.1 <del>1.7 1.6</del> 1.1 0.1 0.0 0.0 <b>₽</b>		.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.2 0.8 1.5 1.7 1.3 0.7 0.4 0.5 0.6		5.2 4.0 4.8 4.4 4.4 5.0 4.1 5.0 4.2 4.4 5	3.8 2.9 1.6 1.2 1.5 1.4 1.8 0.7 0.1 1	3 26 79 1.4 78 0.9 0.4 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
0.0 0.0 0.1 0.4 0.9 1.4 1.4 1.0 0.6 0.4 0.5 0.8 1	1.1 1.5 1.9 2.1 2.8 2.5 2.5	ž <sup>*</sup> 2.7 <sup>*</sup> 2.8 <sup>*</sup> 2.6 <sup>*</sup> 2.6 <sup>*</sup> 2.4 <sup>*</sup> 2.6 <sup>*</sup> 2.4 <sup>*</sup> 2.4 <sup>*</sup>	2.0 1 <sup>4</sup> .5 0.9 0.8 1.1 1.5 1.3 0.8 0.3 0	4 0.8 1.2 1.4 1.2 0.70 0.3 0.0 0.0	0.0         0.0 <td></td>	
	0.8 1 1.2 1.3 1.4 1.4 A	1.3         1.2         1.2         1.1         1.1         1.1         1.1         1.0 <th1.0< th=""> <th1.0< th=""> <th1.0< th=""></th1.0<></th1.0<></th1.0<>	0.9 0.8 0.6 0.6 0.9 1.1 1.0 0.8 0.5	.6 <sup>†</sup> .0 <sup>†</sup> .5 <sup>†</sup> .5 <sup>†</sup> .0 <sup>†</sup> 0.4 <sup>†</sup> 0.2 <sup>†</sup> 0.0 <sup>†</sup> 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.1 0.5 1.1 0.6 1.5 1.1 0.8 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Ď.9 Ď.9 Ď.8 Ď.8 Ď.8 Ď.8 Ď.8	<sup>°</sup> 0.8 <sup>°</sup> 0.9 <sup>°</sup> 0.9 <sup>°</sup> 0.9 <sup>°</sup> 0.8 <sup>°</sup> 0.7 <sup>°</sup> 0.7 <sup>°</sup> 0.7 <sup>°</sup> 0.7	Ď.8 Ď.9 Ď.9 <sup>€</sup> Ū.9 İ.1 İ.2 İ.1 ∐Ď.9 Ū.β Č	.9 1.3 1.8 7.6 0.9 02 81 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
to.0     to.0	■ 1.8 1.6 1.4 1.3 1.3 1.4 1.5	■ 1.5 1.5 1.4 1.3 1.3 1.3 1.4 1.5 1.5 1.5 1		2 1.6 1.9 <b>2</b> 1.6 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.0 <sup>†</sup> 0.0
0.0 0.0 <b>A-1 (20')</b> 7 18 19 17 12 1.2 1.4 1.9 2.0	2.0 1.7 1.5 1.5 1.5 1.8 2.0	20 1.9 1.6 1.5 1.5 1.5 1.8 2.0 20 2.0 3	1.7 1.7 1.6 2.0 2.1 2.1 1.9 1.3 <b>2</b> 1		づ 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup> 0.0 <sup>*</sup>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	16 12 1h 12 12 16 18	17 18 12 11 11 12 17 18 18 18		<b>A-5 (20')</b>		a $b$ $b$ $b$ $b$ $b$ $b$ $b$ $b$ $b$ $b$
		B-2 (20') B-3 (20')	B-4 (20')			$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$
	<u>1.0 1.0 1.0 1.0 1.0 1.1 0.8 </u>		<u>1.1 1.2 1.1 1.2 0.8 0.8 1.2 0.9</u> 1.0 1			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.9 1.5 1.2 1.2 1⊨1 1.5 1.7 #9135	<u>1.5 1.8 1.2 1.1 1.1 1.1 1.6 1.6 1.6 </u> 1.7 1	<u>1.3 1.3 1.3 1.7 1.9 1.9 1.8 1.2 1.1 1</u>	<u>11.00.8</u> 0.40.00.00.00.00.00.00		.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
$0.0$ $0.0$ $0.0$ $0.0$ $0.2$ $0.7$ $\frac{1}{4915}$ $\frac{1}{3}.1$ $\frac{1}{7}$ $1.2$ $1.2$ $1.2$ $1.2$ $1.5$ $1.8$ $\frac{1}{12}$ $\frac$	1.5 1.5 1.5 1.5 1.8 #92.0 <sup>3</sup>	1.9 1.9 1.5 1.4 1.4 1.5 1.8 2.0 2.0 1.9 1 1/2	1.6 1.7 1.7 1.9 1.9 1.9 1.8 1.4 1.1 č	.9 0.6 0.4 0.2 0.0 0.0 0.0 0.0 0.0	0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 $0.0$ $0.0$ $0.0$ $0.1$ $0.3$ $0.5$ $0.7$ $0.8$	1.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#9 <sub>122</sub> i.3 i.2 i.2 i.3 i.4 i.6 i.6 i.5 i	1.4 1.3 1.2 1.2 1.2 1.1 1.0 0.9 0.7 to	.5 0.4 0.2 0.1 0.0 0.0 0.0 0.0 0.0	0.0         0.0 <td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td>	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0, 0.0, 0.0, 0.0, 0.0, 0.1 #90524	0.3 0.4 0.5 0.6 #01 <sup>27</sup> 0.4 0.5	₩91025 0.5 0.6 0.6 0.6 0.5 0.5 0.5 0.5	0.6 0.6 0.5 0.4 0.3 0.2 0.2 0.3 0.3 0	.2 0.2 0.1 0.0 0.0 0.0 0.0 0.0 0.0	of 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
$ \begin{array}{c} 5 \\ 5 \\ \underline{0.0} \\ 0.0$		$\frac{b_1}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_2}{b_1} \frac{b_1}{b_1} b_$				
0.0         0.0         0.0         0.0         0.1 <td>0.0 0.1 0.1 0.1 0.1 0.0 0.0</td> <td>0.1         0.1<td>0.1         0.1<td>.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>0.0  0.0</td></td></td>	0.0 0.1 0.1 0.1 0.1 0.0 0.0	0.1         0.1 <td>0.1         0.1<td>.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td>0.0  0.0</td></td>	0.1         0.1 <td>.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td> <td>0.0  0.0</td>	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0  0.0
i 0.ď 0.ď 0.ď 0.ď 0.ď 0.ď 0.ď 0.ď 0.ď 0.ď	Ď.0 Ď.0 Ď.0 Ď.0 Ď.0 Ď.0	CHAIN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	が 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	が 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	LINK .0 to.0 to.0 to.0 to.0 to.0 to.0 to.0 to
$\dot{c}$ or or or or or or $\dot{c}$ or $\dot{c}$ $\dot{c}$ $\dot{c}$ $\dot{c}$ $\dot{c}$ $\dot{c}$ $\dot{c}$		$\mathcal{W}$ FENCE	ז המ המ המ המ המ המ המ המ המ	ori ori ori ori ori 0.0 0.0 0.0	$\dot{\tau}$ $ ho \vec{n}$	
U.U U.U U.U U.U 0.O U.U 0.O 0.O 0.O 0.O 0.O 0.O 0.O 0.O 0.O	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	U.U U.U U.U 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	U.U U.U U.U U.U U.U 0.0 0.0 0.0 0.0 0.0	.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

### LIGHTING REQUIREMENTS

LIGHTING STATISTICS

AVERAGE

0.45 FC

0.02 FC

REQUIRED	PROPOSI	ED			
<u>Shielding:</u> All Outdoor Lighting Shall B	PROVIDE	D			
LIGHT TRESSPASS:					
MAXIMUM, ROW PROPERTY LINE: 0	0.1 FC				
MAXIMUM, NON-RESIDENTIAL PRO	PERY LINE	: 0.3 FC	0.2 FC		
MAXIMUM FIXTURE HEIGHT:					
20 FT			20 FT		
REQUIRED ILLUMINATION:	MIN.	MAX.	MIN.	MAX.	
PEDESTRIAN AREAS / SIDEWALK	0.2 FC	1.0 FC	0.2 FC	1.0 FC	
BUILDING ENTRANCES	1.0 FC	5.0 FC	1.9 FC	5.0 FC	
DRIVEWAY LIGHTING	0.2 FC	1.0 FC	0.2 FC	1.0 FC	
PARKING AREAS	0.2 FC	2.0 FC	0.5 FC	2.0 FC	
PARKING WITHIN 25 FT OF BLDG.	2.0 FC	4.0 FC	2.0 FC	3.0 FC	

MINIMUM

0.0 FC

0.0 FC

MAXIMUM

5.0 FC

0.2 FC

						<b>)</b>			
	LABEL Q	PROPOSED L 2UANTITY SECURITY LIGHTING		J LLF MANUFACTUREF	R IES FILE	-			
	A	5 MIRADA MEDIUM LED AREA LIGHT 5 07L LUMEN PACKAGE W/ HOUSE-SIDE SHIELD - SINGLE	FT	0.90 LSI INDUSTRIES	MRM-LED-07L-SIL-FT-30-70CRI-IL	_			
•	В	MIRADA MEDIUM LED AREA LIGHT 5 07L LUMEN PACKAGE W/ HOUSE-SIDE SHIELD - DOUBLE @180°	3	0.90 LSI INDUSTRIES	MRM-LED-07L-SIL-3-30-70CRI-IL				
	С	2 MIRADA OUTDOOR LED WALL SCONCE 8L LUMEN PACKAGE (*SECURITY LIGHTING	FT	0.90 LSI INDUSTRIES	XWM-FT-LED-08L-30				
$\bigcirc$	D	7 LED GOOSENECK LIGHT S4L LUMEN PACKAGE, 3000K CCT	N/A	0.90 CREE LIGHTING	C-WM-A-WDG-S4L-3K	-	SVMBOL		
* SECUR * SEE LIC	RITY LIGHTING SPE	NG NOT INCLUDED WITHIN LIGHTING CALCUALTION ECIFICATIONS ON SHEET C-14.	LIGHTS ARE MOTION AC	FIVATED AND NOT CONSI	ISTENTLY ON.	)	<u></u>	PROPERTY LINE	
							A (XX')	PROPOSED LIGHTING FIXTURE	
							+ X.X		
								PROPOSED AREA LIGHT	
								PROPOSED BUILDING MOUNTED LIGHT	
		and the second second							NOT AP
	17				The second second second second second second second second second second second second second second second s				11 =
									비 뿔
									11 #
									Z
	EI)	 ۲۱۱RFS '۵' & 'B'							
ADA RAMF	-	ATORES A & D		TATORE					
		SAN. MH #120120							
	(5)	SAN. MH #120119					ΕΙΥΤΙ	וחי IDE	
			ASPH)	ALT WALK	* * * * * * *	* - * - *			
.0 40.0 4 .0 0.0 4	0.0 0.0 0.0 0.0	0.0 0,0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 IM. MH 20256 0.0 0.0 0.0 0.0	0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0. 0.0 0.0 0.			
.0 0.0	0.0 < 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 ₩ #120255	0.0 0.0 0.0 0.0	<sup>™</sup> 0.0 <sup>™</sup> 0.0 <sup>™</sup> 0.0 <sup>™</sup> 0.0	to.0 to.0 to.0 to.0 to.0 to.0 €.0 to.0 to.0 to.0 to.0 to.0 to.0 to.0 to	<sup>†</sup> 00 <sup>†</sup> 0.0 <sup>†</sup> 0.0 <sup>†</sup> 0.0			
.0 0.0	0.0 0.0		0.0 0.0 0.0 0.0 0.0		0.0     0.0     0.0     0.0	to.0 to.0 to.			
.0 0.0	0.0 × 0.0		00 00 00 00 00						
.0 0.0	0.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		0.0 0.0 0.0 0.0		0.0 0.0 0.			
0 0.0		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0 <sup>-1</sup> 0.0		0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0. 0.0 0.0 0.			
0 0.0 0 0.0	0.0 0.0 0.0 0.0 0.0 0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0     0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0	0.0     0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0	0.0 $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$	0.0     0.0     0.0     0.       0.0     0.0     0.     0.       0.0     0.0     0.       0.0     0.0     0.			S
0 0.0 0 0.0 0 0.0 0 0.0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0     0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0 0.0	0.0     0.0     0.0     0.       0.0     0.0     0.     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.			LANS
0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0     0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0       0.0     0.0     0.0     0.0	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0     0.0     0.0     0.       0.0     0.0     0.     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.			IT PLANS
0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0	0.0     0.0     0.0     0.       0.0     0.0     0.     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.       0.0     0.0     0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE	MENT PLANS
0 0.0 0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         M878.06       0.0       0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALI HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER	-OPMENT PLANS
0 0.0 0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       c.0         b.0       b.0       b.0       b.0       c.0         b.0       b.0       b.0       c.0       c.0         b.0       b.0       c.0       c.0       c.0         c.0       c.0       c.0       c.0       c.0	0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0       0.0       0.0	0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR	EVELOPMENT PLANS
.0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0       .0     0.0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	0.0 $0.0$ <t< td=""><td>0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0</td><td>b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.</td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>E DEVELOPMENT PLANS</td></t<>	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0         b.0       b.0       b.0       b.0       b.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	E DEVELOPMENT PLANS
.0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0         .0       0.0	0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0       0.0     0.0	0.0 $0.0$ <t< td=""><td>0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0</td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         b.0         b.0         b.0         b.0         b.0           0.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.</td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>SITE DEVELOPMENT PLANS</td></t<>	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0	b.0         b.0         b.0         b.0         b.0         b.0           0.0         b.0         b.0         b.0         b.0         b.0           0.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0         b.0         b.0         b.0         b.0           b.0         b.0         b.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
0         0.0           0         0.0	0.0       0.0         0.0       0.0	0.0 $0.0$ <t< td=""><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         RI           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0  </td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.   </td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING NOT 1. THE LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>SITE DEVELOPMENT PLANS</td></t<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         RI           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING NOT 1. THE LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
0       0.0         0       0.0	0.0       0.0         0.0       0.0	0.0 $0.0$ <t< td=""><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td>0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0</td><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>SITE DEVELOPMENT PLANS</td></t<>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
.0         0.0           .0         0.0	Ö.0         Ö.0           Ö.0         Ö.0	0.0 $0.0$ <t< td=""><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA</td><td>AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>SITE DEVELOPMENT PLANS</td></t<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	0.0 $0.0$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA	AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
.0         0.0           .0         0.0	0.0       0.0         0.0       0.0	0.0 $0.0$ <t< td=""><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td></td></t<> <td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE 1</td> <td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR THERE IS NO ACTIVITY ON SITE.</td> <td>SITE DEVELOPMENT PLANS</td>	0.0 $0.0$ <td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td> <td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td> <td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td>	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	0.0 $0.0$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE 1	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR THERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
.0       0.0         .0       0.0	0.0       0.0         0.0       0.0	0.0 $0.0$ <t< td=""><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIOL HIGH PRESSURE SODID METAL HALIDE:</td><td>AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALUSES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td><td>SITE DEVELOPMENT PLANS</td></td></t<>	0.0 $0.0$ <td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td> <td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td> <td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td> <td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIOL HIGH PRESSURE SODID METAL HALIDE:</td> <td>AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALUSES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td> <td>SITE DEVELOPMENT PLANS</td>	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	0.0 $0.0$	0.0 $0.0$	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUA OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIOL HIGH PRESSURE SODID METAL HALIDE:	AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE GHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALUSES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	SITE DEVELOPMENT PLANS
0         0.0           0         0.0	Ö.0         Ö.0           Ö.0	0.0 $0.0$ <t< td=""><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td></td></t<> <td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIO HIGH PRESSURE SODII METAL HALIDE: 4. THE CONTRACTOR SH DESIGN, LLC. IN WRITIN OF ANY PROPOSED LIG</td> <td>AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE. DEPICTED WITHIN THE PLAN SET ARE G DATA OBTAINED FROM THE LISTED ALILLUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RIABLES SUCH ARE WEATHER, VOLTAGE NC, EQUIPMENT SERVICE LIFE AND OTHER ONS. E EXISTING LIGHT LEVELS DEPICTED WITHIN CONSIDERED APPROXIMATE. THE EXISTING SED ON FIELD OBSERVATIONS AND THE A OF THE ASSUMED OR MOST SIMILAR EL. ERE WITHIN THIS PLAN SET, THE LIGHT LOSS IGHTING ANALYSIS ARE AS FOLLOWS: DES (LED): 0.90 JM: 0.72 0.72 MALL NOTIFY STONEFIELD ENGINEERING &amp; G, PRIOR TO THE START OF CONSTRUCTION, BHTING LOCATIONS THAT CONFLICT WITH</td> <td>SITE DEVELOPMENT PLANS</td>	0.0 $0.0$ <td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td>	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIO HIGH PRESSURE SODII METAL HALIDE: 4. THE CONTRACTOR SH DESIGN, LLC. IN WRITIN OF ANY PROPOSED LIG	AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BHT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE AL, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE. DEPICTED WITHIN THE PLAN SET ARE G DATA OBTAINED FROM THE LISTED ALILLUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RIABLES SUCH ARE WEATHER, VOLTAGE NC, EQUIPMENT SERVICE LIFE AND OTHER ONS. E EXISTING LIGHT LEVELS DEPICTED WITHIN CONSIDERED APPROXIMATE. THE EXISTING SED ON FIELD OBSERVATIONS AND THE A OF THE ASSUMED OR MOST SIMILAR EL. ERE WITHIN THIS PLAN SET, THE LIGHT LOSS IGHTING ANALYSIS ARE AS FOLLOWS: DES (LED): 0.90 JM: 0.72 0.72 MALL NOTIFY STONEFIELD ENGINEERING & G, PRIOR TO THE START OF CONSTRUCTION, BHTING LOCATIONS THAT CONFLICT WITH	SITE DEVELOPMENT PLANS
.0       0.0         .0       0.0	0.0       0.0         0.0       0.0	0.0 $0.0$ <t< td=""><td>0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0</td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td></t<> <td>ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIO HIGH PRESSURE SODIU HIGH PRESSURE SODIU METAL HALIDE: 4. THE CONTRACTOR SF DESIGN, LLC. IN WRITIN OF ANY PROPOSED LIC EXISTING/ PROPOSED DIG S. THE CONTRACTOR IS RE PROVIDE ELECTRIC SERVICES</td> <td>AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE HT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE A, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.</td> <td></td>	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0.0       0.0       0.0       0.         0.0       0.0       0.       0.	ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTU/ OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAN VARIABLE FIELD CONDIT 2. WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD 3. UNLESS NOTED ELSEWH FACTORS USED IN THE L I LIGHT EMITTING DIO HIGH PRESSURE SODIU HIGH PRESSURE SODIU METAL HALIDE: 4. THE CONTRACTOR SF DESIGN, LLC. IN WRITIN OF ANY PROPOSED LIC EXISTING/ PROPOSED DIG S. THE CONTRACTOR IS RE PROVIDE ELECTRIC SERVICES	AGHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE HT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE A, USES SENSORS AND DIM OR HERE IS NO ACTIVITY ON SITE.	
.0       0.0         .0       0.0	0.0       0.0         0.0       0	0.0 $0.0$ <t< td=""><td>0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0</td><td>b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         &lt;</td><td>0.0 0.0</td><td>0.0       0.0       0.0       0.         0.0       0.0       0.       0.</td></t<> <td>ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T</td> <td>Incorporate Automatic Incorporate Automatic Be turned off between the Beturned off between the Beturned off between the Beturned off between the Beturned Sunrise, except for Ary for security purposes A use that continues After Ity Lighting Shall, to the Automatic second between the Construction of the second between there is no activity on site. Depicted within the plan set are G data obtained from the listed Automation levels and performance Lighting fixture may vary due to Riables such are weather, voltage ver, equipment service life and other lons. E Existing Light Levels depicted within considered approximate. The existing sed on field observations and the A of the assumed or most similar a considered approximate. The existing sed on field observations and the A of the assumed or most similar Lighting analysis are as follows: Desidenting analysis are as follows: Desidenting analysis are as follows: Diffing conting start of construction, inting locations that conflict with annage, utility, or other improvements. Seponsible to prepare an as-built plan of corposed the owner and stonefield lic.</td> <td>SCALE: TITLE:</td>	0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0.0         0.0       0.0       0.0       0.0       0	b.0         b.0         b.0         b.0         b.0         b.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0         0.0           0.0         <	0.0 0.0	0.0       0.0       0.0       0.         0.0       0.0       0.       0.	ALL EXTERIOR LI DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T	Incorporate Automatic Incorporate Automatic Be turned off between the Beturned off between the Beturned off between the Beturned off between the Beturned Sunrise, except for Ary for security purposes A use that continues After Ity Lighting Shall, to the Automatic second between the Construction of the second between there is no activity on site. Depicted within the plan set are G data obtained from the listed Automation levels and performance Lighting fixture may vary due to Riables such are weather, voltage ver, equipment service life and other lons. E Existing Light Levels depicted within considered approximate. The existing sed on field observations and the A of the assumed or most similar a considered approximate. The existing sed on field observations and the A of the assumed or most similar Lighting analysis are as follows: Desidenting analysis are as follows: Desidenting analysis are as follows: Diffing conting start of construction, inting locations that conflict with annage, utility, or other improvements. Seponsible to prepare an as-built plan of corposed the owner and stonefield lic.	SCALE: TITLE:
.0       0.0         .0       0.0	Ö.0         Ö.0           Ö.0	0.0 $0.0$ <t< td=""><td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math><td>b.o         b.o         b.o         b.o         b.o         b.o           <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>0.0 0.0</td><td>0.0 0.0 0. 0.0 0</td><td>ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T</td><td>SHITING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE INT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALLIGHTING SHALL, TO THE G DATA OBTAINED FROM THE LISTED ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS DEPICTED WITHIN CONSIDERED APPROXIMATE. THE EXISTING SED ON FIELD OBSERVATIONS AND THE A OF THE ASSUMED OR MOST SIMILAR L. ERE WITHIN THIS PLAN SET, THE LIGHT LOSS IGHTING ANALYSIS ARE AS FOLLOWS: DIAL NOTIFY STONEFIELD ENGINEERING &amp; G, PRIOR TO THE START OF CONSTRUCTION, HITING LOCATIONS THAT CONFLICT WITH ANAGE, UTILITY, OR OTHER IMPROVEMENTS. SPONSIBLE TO PREPARE A WIRING PLAN AND IVE TO ALL PROPOSED LIGHTING FIXTURES. EQUIPED TO PREPARE AN AS-BUILT PLAN OF COPIES TO THE OWNER AND STONEFIELD LIC.</td><td>SCALE:</td></td></t<>	0.0 $0.0$ <td>b.o         b.o         b.o         b.o         b.o         b.o           <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td> <td>0.0 0.0</td> <td>0.0 0.0 0. 0.0 0</td> <td>ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T</td> <td>SHITING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE INT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALLIGHTING SHALL, TO THE G DATA OBTAINED FROM THE LISTED ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS DEPICTED WITHIN CONSIDERED APPROXIMATE. THE EXISTING SED ON FIELD OBSERVATIONS AND THE A OF THE ASSUMED OR MOST SIMILAR L. ERE WITHIN THIS PLAN SET, THE LIGHT LOSS IGHTING ANALYSIS ARE AS FOLLOWS: DIAL NOTIFY STONEFIELD ENGINEERING &amp; G, PRIOR TO THE START OF CONSTRUCTION, HITING LOCATIONS THAT CONFLICT WITH ANAGE, UTILITY, OR OTHER IMPROVEMENTS. SPONSIBLE TO PREPARE A WIRING PLAN AND IVE TO ALL PROPOSED LIGHTING FIXTURES. EQUIPED TO PREPARE AN AS-BUILT PLAN OF COPIES TO THE OWNER AND STONEFIELD LIC.</td> <td>SCALE:</td>	b.o         b.o         b.o         b.o         b.o         b.o $0.0$	0.0 0.0	0.0 0.0 0. 0.0 0	ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T	SHITING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE INT AND SUNRISE, EXCEPT FOR ARY FOR SECURITY PURPOSES A USE THAT CONTINUES AFTER ITY LIGHTING SHALL, TO THE ALLIGHTING SHALL, TO THE G DATA OBTAINED FROM THE LISTED ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS AND PERFORMANCE LIGHTING FIXTURE MAY VARY DUE TO RABLES SUCH ARE WEATHER, VOLTAGE ALLIUMINATION LEVELS DEPICTED WITHIN CONSIDERED APPROXIMATE. THE EXISTING SED ON FIELD OBSERVATIONS AND THE A OF THE ASSUMED OR MOST SIMILAR L. ERE WITHIN THIS PLAN SET, THE LIGHT LOSS IGHTING ANALYSIS ARE AS FOLLOWS: DIAL NOTIFY STONEFIELD ENGINEERING & G, PRIOR TO THE START OF CONSTRUCTION, HITING LOCATIONS THAT CONFLICT WITH ANAGE, UTILITY, OR OTHER IMPROVEMENTS. SPONSIBLE TO PREPARE A WIRING PLAN AND IVE TO ALL PROPOSED LIGHTING FIXTURES. EQUIPED TO PREPARE AN AS-BUILT PLAN OF COPIES TO THE OWNER AND STONEFIELD LIC.	SCALE:
.0       0.0         .0       0.0 <td>Ö.0         Ö.0           Ö.0         Ö.0           Ö.0</td> <td>0.0 <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <t< td=""><td>0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0</td><td>b.o         b.o         b.o         b.o         b.o         b.o           <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>0.0 0.0</td><td>0.0 0.0 0. 0.0 0</td><td>ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUV OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAM VARIABLE FIELD CONDIT WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD UNCOSTROL LIGHTING DIO HIGH PRESSURE SODIU HIGH PRESSURE SODIU METAL HALIDE METAL HALIDE THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BALL AND SUNRISE, EXCEPT FOR AND SUNRISE, EXCEPT FOR AUSE THAT CONTINUES AFTER INTO A USE THAT CONTINUES AND DER INTO A USE THAT A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND A SERVICE LIFE AND O THE INTO A USE AND A SERVICE LIFE AND O THE INTO A A SERVICE A USE AND A THE INTO A A A SERVICE A USE AND A THE INTO A A A A A A A A A A A A A A A A A INTO A A A A A A A A A A A A A A A A A A A</td><td>SITE DEVELOPMENT PLANS</td></t<></td>	Ö.0         Ö.0           Ö.0	0.0 $0.0$ <t< td=""><td>0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0</td><td>b.o         b.o         b.o         b.o         b.o         b.o           <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math> <math>0.0</math></td><td>0.0 0.0</td><td>0.0 0.0 0. 0.0 0</td><td>ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUV OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAM VARIABLE FIELD CONDIT WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD UNCOSTROL LIGHTING DIO HIGH PRESSURE SODIU HIGH PRESSURE SODIU METAL HALIDE METAL HALIDE THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI</td><td>GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BALL AND SUNRISE, EXCEPT FOR AND SUNRISE, EXCEPT FOR AUSE THAT CONTINUES AFTER INTO A USE THAT CONTINUES AND DER INTO A USE THAT A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND A SERVICE LIFE AND O THE INTO A USE AND A SERVICE LIFE AND O THE INTO A A SERVICE A USE AND A THE INTO A A A SERVICE A USE AND A THE INTO A A A A A A A A A A A A A A A A A INTO A A A A A A A A A A A A A A A A A A A</td><td>SITE DEVELOPMENT PLANS</td></t<>	0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0           0.0         0.0         0.0         0.0	b.o         b.o         b.o         b.o         b.o         b.o $0.0$	0.0 0.0	0.0 0.0 0. 0.0 0	ALL EXTERIOR LU DISTRICTS SHALL TIMERS AND SHALL HOURS OF MIDNIG LIGHTING NECESS OR ACCESSORY TO MIDNIGHT. SECUR EXTENT PRACTICA TURN OFF WHEN T GENERAL LIGHTING LEVELS CALCULATED UTILIZIN MANUFACTURER. ACTUV OF ANY PROPOSED UNCONTROLLABLE VA SUPPLY, LAMP TOLERAM VARIABLE FIELD CONDIT WHERE APPLICABLE, TH THE PLAN SET SHALL BI LIGHT LEVELS ARE BA MANUFACTURER'S DAT LIGHTING FIXTURE MOD UNCOSTROL LIGHTING DIO HIGH PRESSURE SODIU HIGH PRESSURE SODIU METAL HALIDE METAL HALIDE THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI THE CONTRACTOR IS RI PROVIDE ELECTRIC SERVI	GHTING IN NON-RESIDENTIAL INCORPORATE AUTOMATIC BE TURNED OFF BETWEEN THE BALL AND SUNRISE, EXCEPT FOR AND SUNRISE, EXCEPT FOR AUSE THAT CONTINUES AFTER INTO A USE THAT CONTINUES AND DER INTO A USE THAT A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND PERFORMANC INTO A USE AND A SERVICE LIFE AND O THE INTO A USE AND A SERVICE LIFE AND O THE INTO A A SERVICE A USE AND A THE INTO A A A SERVICE A USE AND A THE INTO A A A A A A A A A A A A A A A A A INTO A A A A A A A A A A A A A A A A A A A	SITE DEVELOPMENT PLANS

![](_page_8_Picture_10.jpeg)

ASPHALT	ADA RAMP
RIM878.65	ASF

![](_page_8_Figure_14.jpeg)

![](_page_9_Figure_0.jpeg)

TYPE OF SOIL	15B - SPINKS LOAMY SAND	50B - UDIPSAMMENTS
PERCENT OF SITE COVERAGE	57.0%	43.0%
HYDROLOGIC SOIL GROUP	A	А
DEPTH TO RESTRICTIVE LAYER	> 80 INCHES	> 80 INCHES
SOIL PERMEABILITY	1.98 TO 5.95 IN/HR	5.95 TO 19.98 IN/HR
DEPTH TO WATER TABLE	> 80 INCHES	> 80 INCHES

![](_page_9_Figure_11.jpeg)

SOIL EROSION AND SEDIMENT CONTROL NOTES

RIM876.54

- 1. THE CONTRACTOR IS RESPONSIBLE FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. 2. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY
- standards. 3. THE CONTRACTOR IS RESPONSIBLE TO INSPECT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER A PRECIPITATION EVENT GREATER THAN 1 INCH. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG ON SITE AND DOCUMENT CORRECTIVE ACTION TAKEN THROUGHOUT THE COURSE OF CONSTRUCTION AS REQUIRED.

![](_page_9_Picture_15.jpeg)

![](_page_9_Picture_16.jpeg)

![](_page_9_Figure_17.jpeg)

	LANDSCAPING AND BUFFER REQUI	REMENTS				PLANT SCH	EDULE		
	REQUIRED	PROPOSED	DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	co
					_			2" 25" 644	
3 138-12.205.A.	PLANTING REQUIREMENTS PLANT MATERIALS SHALL NOT INLCUDE MORE THAN	COMPLIES	<b></b>	ACE			OCTOBER GLORT RED MAPLE	3" - 3.5" CAL	
	20% OF ANY SINGLE PLANT SPECIES <u>INTERIOR PARKING LOT LANDSCAPING</u>		{ + }	GIN	7	GINKGO BILOBA 'AUTUMN GOLD'	AUTUMN GOLD MAIDENHAIR TREE	3" - 3.5" CAL	
138-12.301.A.1.	5% OF PARKING LOTS WITH 20 OR MORE SPACES SHALL BE LANDSCAPED WITH INTERIOR LANDSCAPING AREAS								_
	(31,368 SF) * (0.05) = 1,568 SF	8,030 SF (25%) PROVIDED	<b>£</b> • <b>}</b>	GLE	11	GLEDITSIA TRIACANTHOS INERMIS 'SHADEMASTER'	SHADEMASTER HONEY LOCUST	3" - 3.5" CAL	
38-12.301.A.1.	I DECIDUOUS TREES FOR EVERY 150 SF OF REQUIRED								+
					9		TOPELO	3" - 3.5" CAL	
			AN Ten						+
§ 138-12.301.A.2.	TERMINAL ISLANDS SHALL BE PROVIDED AT THE END OF EACH ROW OF PARKING SPACES AND SHALL BE AT LEAST 144 SF IN AREA AND 18 FT LONG	PROVIDED		BIC	4	QUERCUS BICOLOR	SWAMP WHITE OAK	3" - 3.5" CAL	
	EACH LANDSCAPE ISLAND SHALL HAVE I SHADE TREE		( × )	QUE	8	QUERCUS RUBRA	RED OAK	3" - 3.5" CAL	
									+
3 138-12.301.A.3.	IN LERIOR LANDSCAPE ISLANDS SHALL HAVE A MINIMUM AREA OF 160 SF AND A MINIMUM WIDTH OF 8 FT	341 SF PROVIDED 8.5 FT PROVIDED		TIL	6	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LITTLELEAF LINDEN	3" - 3.5" CAL	
	EACH LANDSCAPE ISLAND SHALL HAVE I SHADE TREE						CONVOLUNT:	0175	+_
	4 ISLANDS = 4 TREES	4 TREES PROPOSED	EVERGREEN TREES	CODE				SIZE	$+^{c}$
§ 138-12.301.B.1.	PERIMETER PARKING LOT LANDSCAPING I DECIDUOUS TREE FOR EVERY 25 LF OF PERIMETER			JUV	5	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	10` - 12` HT	
,	(640 FT) * (  TREE / 25 FT PERIMETER) = 26 TREES	22 EXISTING TREES TO REMAIN 4 TREES PROPOSED							
	I ORNAMENTAL TREE FOR EVERY 35 LF OF PERIMETER		5 + E	JUN	18	J.N. SELECT GREEN'	EASTERN REDCEDAR	10` - 12` HT	
	(640 FT) * (1 TREE / 35 FT PERIMTER) = 19 TREES	19 TREES PROPOSED							
	TYPE A BUFFER STANDARDS FOR BASIN			PIC	9	PICEA GLAUCA	WHITE SPRUCE	10` - 12` HT	
38-12.300.B.	MINIMUM BUFFER WIDTH: 6 FT	6.0 FT PROVIDED							_
	1.5 DECIDUOUS TREES FOR EVERY 100 LF OF BUFFER		ORNAMENTAL TREES	CODE	QIY	BOTANICAL NAME		SIZE	
	(414 FT) * (1.5 TREE / 100 FT BUFFER) = 7 TREES	7 TREES PROPOSED	$\mathbf{x}$	AME	10		CANADIAN SERVICEBERRY	2" - 2 5" CAI	
	I EVERGREEN TREE FOR EVERY 100 LF OF PERIMETER								
	(414 FT) * (1 TREE / 100 FT BUFFER) = 5 TREES	5 TREES PROPOSED	$\frown$						
	4 SHRUBS FOR EVERY 100 LF OF PERIMETER		{ + }	CER	16	CERCIS CANADENSIS	EASTERN REDBUD	2" - 2.5" CAL	
	(414 FT) * (4 SHRUBS / 100 FT BUFFER) = 17 SHRUBS	17 SHRUBS PROPOSED							_
§ 138-12.303.C.	STORMWATER MANAGEMENT LANDSCAPING BASINS SHALL BE PLANTED WITH A MIXTURE OF GROUNDCOVER AND WETLAND-BASED PLANTINGS	COMPLIES	£+)	COR	15	CORNUS FLORIDA	FLOWERING DOGWOOD	2" - 2.5" CAL	
	NATIVE TO MICHIGAN, SUCH AS NATIVE GRASSES OR WILDFLOWERS		SHRUBS	CODE	QTY	BOTANICAL NAME		SIZE	
§ 138-12.303.D.	A TYPE A PERIMETER GREENBELT BUFFER SHALL BE PROVIDED	TYPE A BUFFER PROVIDED	- Đ	HQU	9	HYDRANGEA QUERCIFOLIA	OAKLEAF HYDRANGEA	3 GAL.	
3 138-12.303.D.1.	PLANTINGS SHALL BE CLUSTERED AROUND THE BASIN TO ACHIEVE A VARIETY OF PLANT MATERIALS AND TO	COMPLIES	$\bigcirc$	LIN	20	LINDERA BENZOIN	SPICEBUSH	3 GAL.	
	REPLICATE A NATURAL ENVIRONMENT DECIDUOUS SHADE TREES SHOULD BE CLUSTERED AROUND THE SOUTH AND WEST SIDES OF THE BASIN	COMPLIES	(+)	РНҮ	19	PHYSOCARPUS OPULIFOLIUS	NINEBARK	3 GAL.	
	TO PROVIDE SHADE AND MINIMIZE SOLAR HEATING OF THE WATER		(+)	SAM	11	SAMBUCUS CANADENSIS	AMERICAN ELDERBERRY	3 GAL.	
138-12.303.D.2.	TREES SHALL BE PLANTED ABOVE THE FREEBOARD LINE OF THE BASIN. ANY PLANTINGS PROPOSED BELOW THE	COMPLIES		CVD	12				
	MOIST SOIL CONDITIONS, THE LOCATION OF PLANT MATERIALS SHALL TAKE INTO CONSIDERATION THE							3 GAL.	
	NEED TO PROVIDE ACCESS FOR ROUTINE BASIN				<u></u>			JIZE	+
	MAINTENANCE RIGHT-OF-WAY LANDSCAPING		$\otimes$	BUX	26	BUXUS MICROPHYLLA 'WINTERGREEN'	WINTERGREEN BOXWOOD	30" - 36"	
	SOUTH ADAMS ROAD: 1,065 FT		$\square$	11 5	24			30" 34"	
§ 138-12.304.A.1.	I DECIDUOUS TREE FOR EVERY 35 LF OF FRONTAGE				20			30 - 30	
	(1,064 FT) * (1 TREE / 35 FT FRONTAGE) = 31 TREES	5 EXISTING TREES TO BE SAVED 26 TREES PROPOSED	0	ТАХ	12	TAXUS X MEDIA 'DENSIFORMIS'	DENSE ANGLO-JAPANESE YEW	30" - 36"	
§ 138-12.304.B.	I ORNAMENTAL TREE FOR EVERY 60 LF OF FRONTAGE			L					<u> </u>
	(1.064 FT) * (1 TREE / 60 FT FRONTAGE) = 18 TREES		NOTE: IF ANY DISCREP	'ANCIES C	JCCUR B	BETWEEN AMOUNTS SHOWN ON THE LAN	NDSCAPE PLAN AND WITHIN THE PLAN	LIST, THE PLAN	N SH/

![](_page_10_Figure_1.jpeg)

![](_page_10_Figure_4.jpeg)

I. SNOW FENCING IS TO BE 4'-0" HIGH AND SELF SUPPORTED. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT WITHIN THE TREE PROTECTION FENCING.

3. SNOW FENCE TO BE INSTALLED AT DRIP LINE OF EXISTING TREE OR TREE CLUSTER TO BE PROTECTED OR NO CLOSER THAN 6' FROM TREE TRUNK IF NECESSARY. 4. IF THE PROJECT AREA ENCOMPASSES A PORTION OF THE DRIP LINE OF THE TREE, NO MORE THAN ONE THIRD OF THE OF THE TOTAL AREA OF WITHIN THE DRIP LINE SHOULD BE DISTURBED BY CONSTRUCTION OR REGRADING AND A 3" THICK LAYER OF MULCH SHALL BE INSTALLED OVER THE

![](_page_10_Figure_7.jpeg)

**ROCHESTER HILLS MAINTENANCE NOTES:** 

PRIOR APPROVAL IS REQUIRED TO PLANT ANY TREE OR SHRUB ON THE PUBLIC RIGHT-OF-WAY. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC ROAD. (TREES MUST BE PLANTED AT LEAST 15' AWAY FROM CURB OR ROAD EDGE WHERE THE SPEED LIMIT IS MORE THAN 35 MPH.) SHADE TREES AND SHRUBS MUST BE PLANTED AT LEAST 5' FROM THE EDGE OF THE PUBLIC WALKWAY. EVERGREEN AND ORNAMENTAL TREES MUST BE PLANTED AT LEAST 10' FROM THE EDGE OF THE PUBLIC WALKWAY. NO TREES OR SHRUBS MAY BE PLANTED WITHIN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY STREET RIGHT-OF-WAY LINES AT A DISTANCE ALONG EACH LINE OF 25' FROM THEIR POINT OF INTERSECTION. NO TREES OR SHRUBS MAY BE PLANTED IN THE TRIANGULAR AREA FORMED AT THE INTERSECTION OF ANY DRIVEWAY WITH A PUBLIC WALKWAY AT A DISTANCE ALONG EACH LINE OF 15' FROM THEIR POINT OF INTERSECTION. ALL TREES AND SHRUBS MUST BE PLANTED AT LEAST 10' FROM ANY FIRE HYDRANT. SHADE AND EVERGREEN TREES MUST BE AT LEAST 15' AWAY FROM THE NEAREST OVERHEAD WIRE. TREES MUST BE PLANTED A MINIMUM OF 5' FROM AN UNDERGROUND UTILITY, UNLESS THE CITY'S LANDSCAPE ARCHITECT REQUIRES A GREATER DISTANCE. PRIOR TO THE RELEASE OF THE PERFORMANCE BOND, THE CITY OF ROCHESTER HILLS FORESTRY UNIT NEEDS TO INSPECT ALL TREES, EXISTING OR PLANTED, TO IDENTIFY ANY THAT POSE A HAZARD TO THE SAFE USE OF THE PUBLIC RIGHT-OF-WAY. FORESTRY MAY REQUIRE THE DEVELOPER TO REMOVE, AND POSSIBLY REPLACE, ANY SUCH TREES. THE ABOVE REQUIREMENTS ARE INCORPORATED INTO THE PLAN.

### **ROCHESTER HILLS LANDSCAPING NOTES:**

- I. ANY PLANT MATERIAL THAT IS DESIGNATED TO BE MAINTAINED THAT DIES OR IS DAMAGED DURING OR AS A RESULT OF CONSTRUCTION SHALL BE REPLACED PURSUANT TO ORDINANCE REQUIREMENTS.
- 2. ALL LANDSCAPED AREAS MUST BE IRRIGATED INCLUDING ROADS RIGHTS-OF-WAY. WATERING WILL ONLY OCCUR BETWEEN THE HOURS OF I2:00 AM AND 5:00 AM.
- 3. ALL LANDSCAPING REQUIRED PURSUANT TO CITY OF ROCHESTER CODES AND ORDINANCES SHALL BE MAINTAINED IN PERPETUITY. 4. ALL GROUND MOUNTED UTILITIES SHALL BE FULLY SCREENED FROM VIFW

### **ROCHESTER HILLS MAINTENANCE NOTES:**

- I. LANDSCAPING SHALL BE KEPT IN A NEAT, ORDERLY AND HEALTHY GROWING CONDITION, FREE FROM DEBRIS AND REFUSE. 2. PRUNING SHALL BE MINIMAL AT THE TIME OF INSTALLATION, ONLY
- to remove dead or diseased branches. Subsequent pruning SHALL ASSURE PROPER MATURATION OF PLANTS TO ACHIEVE THEIR APPROVED PURPOSE. 3. ALL DEAD, DAMAGED, OR DISEASED PLANT MATERIAL SHALL BE
- REMOVED IMMEDIATELY AND REPLACEMENT WITHIN SIX (6) MONTHS AFTER IT DIES OR IN THE NEXT PLANTING SEASON, WHICHEVER OCCURS FIRST. THE PLANTING SEASON SHALL BE BETWEEN MARCH I AND JUNE I AND FROM OCTOBER I UNTIL THE PREPARED SOIL BECOMES FROZEN. THE PLANTING SEASON FOR EVERGREEN PLANTS SHALL BE BETWEEN MARCH I AND JUNE I. PLANT MATERIAL INSTALLED TO REPLACE DEAD OR DISEASED MATERIAL SHALL BE AS CLOSE AS PRACTICAL TO THE SIZE OF THE MATERIAL IT IS INTENDED TO REPLACE. THE CITY MAY NOTIFY PROPERTY OWNERS OF THE NEED TO REPLAE DEAD, DAMAGED, OR DISEASED MATERIAL.
- THE APPROVED LANDSCAPE PLAN SHALL BE CONSIDERED A PERMANENT RECORD AND INTEGRAL PART OF THE SITE PLAN APPROVAL. UNLESS OTHERWISE APPROVED IN ACCORDANCE WITH THE AFOREMENTIONED PROCEDURES. ANY REVISIONS TO OR REMOVAL OF PLANT MATERIALS, OR NON-COMPLIANCE WITH THE MAINTENANCE REQUIREMENTS, WILL PLACE THE PARCEL IN NON-CONFORMITY WITH THE APPROVED LANDSCAPE PLAN AND BE
- A VIOLATION OF THE ORDINANCE. IF PROTECTED TREES ARE DAMAGED, A FINE SHALL BE ISSUED ON AN INCH-BY-INCH BASIS AT THE MONETARY RATE AS DEFINED BY THE FORESTRY DEPARTMENT.

### IRRIGATION NOTES:

- I. IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS. ALL LANDSCAPE AREAS MUST BE IRRIGATED. WATERLING WILL ONLY
- OCCUR BETWEEN THE HOURS OF I2:00 AM AND 5:00 AM. IRRIGATION OVERSPRAY SHALL NOT BE BROADCAST ONTO CITY PATHWAYS

#### ANDSCAPING NOTES

- THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS
- WITH SOD. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM
- 3 INCH LAYER OF MULCH . THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO I FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
- THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
- THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING
- ALL MULCH BED AREAS TO HAVE PAINTED STEEL EDGING

![](_page_10_Figure_32.jpeg)

![](_page_10_Figure_33.jpeg)

![](_page_11_Figure_0.jpeg)

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF 2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER

• MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY • MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY

INSTALL (2) 3" dia. 8' LONG CEDAR

POST IN TO UNDISTURBED SOIL.

THEN BACKFILL. STAKES SHALL

KEEP TREE VERTICAL AND PLUMB

### GENERAL LANDSCAPING NOTES

- 1. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE 1. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) OR LATEST SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY. WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO
- THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL 3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL,
- IF SO REQUESTED 4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND SEED VERIFYING TYPE AND PURITY.
- 5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF ANY PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE
- DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL 6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

### PROTECTION OF EXISTING VEGETATION NOTES

- BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE DRIP-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FENCE DETAIL." NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED
- IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN. PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FEATURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT. 3. IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE DRIP-LINE OF TREES TO REMAIN, THE WORK SHALL BE PERFORMED AS FOLLOWS:
- TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT. BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO
- THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE. • RAISING GRADES: WHEN THE GRADE AT AN EXISTING TREE IS BELOW THE NEW FINISHED GRADE AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (1" - 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") AND FINISH APPROXIMATELY TWO INCHES (2") ABOVE THE FINISH GRADE AT TREE. INSTALL GRAVEL BEFORE ANY FARTH FILL IS PLACED. NEW FARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, TREE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL.
- LOWERING GRADES: EXISTING TREES LOCATED IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION, NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

### SOIL PREPARATION AND MULCH NOTES:

- 1. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS 2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES
- (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS • MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY
- VOLUME) OR GYPSUM MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL
- MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (1"). 4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGH
- 5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE D. CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF
- TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS. UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
- LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION ( REQUIRED TOPSOIL), IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN 9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE
- PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE W/ATFR
- 11. Double shredded hardwood mulch or approved equal shall be used as a three inch (3") top dressing in all SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR. GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE FASILY DISPLACED BY WIND OR WATER RUNOFF
- 12. WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING. 13. Soil shall be loosened with a backhoe or other large coarse-tiling equipment unless the soil is frozen or EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE 14. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN
- PRODUCT AND PLANT MATERIAL 15. ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING:

MYCRO® TREE SAVER - A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA. TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING. AND SELECTED ORGANIC MICROBIAL NUTRIENTS

- DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.
- MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE • SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS
- IN A PH RANGE OF 3 TO 9. • FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL
- APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION. OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.
- HEALTHY START MACRO TABS 12-8-8
- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS. • TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE, DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT 1 TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL, EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

IRRIGATION DURING ESTABLISHMENT							
SIZE AT PLANTING	IRRIGATION FOR VITALITY	IRRIGATION FOR SURVIVAL					
< 2" CALIPER	DAILY FOR TWO WEEKS, EVERY OTHER DAY FOR TWO MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR TWO TO THREE MONTHS					
2"-4 CALIPER	DAILY FOR ONE MONTH, EVERY OTHER DAY FOR THREE MONTHS, WEEKLY UNTIL ESTABLISHED	TWO TO THREE TIMES WEEKLY FOR THREE TO FOUR MONTHS					
4 >" CALIPER	DAILY FOR SIX WEEKS, EVERY OTHER DAY FOR FIVE MONTHS, WEEKLY UNTIL ESTABLISHED	TWICE WEEKLY FOR FOUR TO FIVE MONTHS					

1. AT EACH IRRIGATION, APPLY TWO TO THREE GALLONS PER INCH TRUNK CALIPER TO THE ROOT BALL SURFACE. APPLY IT IN A MANNER SO ALL WATER SOAKS THE ENTIRE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET/SATURATED ON THE IRRIGATION DAY.

2. WHEN IRRIGATING FOR VITALITY, DELETE DAILY IRRIGATION WHEN PLANTING IN WINTER OR WHEN PLANTING IN COOL CLIMATES, ESTABLISHMENT TAKES THREE TO FOUR MONTHS PER INCH TRUNK CALIPER, NEVER APPLY IRRIGATION IF THE SOIL IS SATURATED.

3. WHEN IRRIGATION FOR SURVIVAL, TREES TAKE MUCH LONGER TO ESTABLISH THAN REGULARLY IRRIGATED TREES. IRRIGATION MAY BE REQUIRED IN THE NORMAL HOT, DRY PORTIONS OF THE FOLLOWING YEAR.

SECURE STAKES TO TREE USING 2 ARBORTIES. SET TOP OF TRUE ROOT BALL 1 TO 2" ABOVE FINISHED GRADE OR SEVERAL INCHES HIGHER IN POORLY DRAINING SOILS. FORM FARTH WATERING SAUCER AROUND TREE AT EDGE OF ROOT BALL. MAXIMUM 3" OF SHREDDED BARK MULCH. DO NOT PLACE MULCH WITHIN 6" OF TREE TRUNK. SOIL TO BE PREPARED PER TABLE PRIOR TO PLANTING TREE. 4" TO 6" DEEPER THAN ROOT BALL - SET ROOT BALL ON UNDISTURBED SOIL PAD IN BOTTOM OF HOLE. TAMP SOIL SOLIDLY AROUND BASE OF ROOT BALL CONIFEROUS TREE PLANTING DETAI NOT TO SCALE NOTES: 1. FOR THE CONTAINER-GROWN SHRUBS, USE FINGERS OR SMALL HAND TOOL TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR USE FINGERS OR SMAL PULL APART ANY ROOTS CIRCLING THE HAND TOOL TO PULL PERIMETER OF THE CONTAINER. ROOTS OUT OF BALL. THOROUGHLY SOAK THE SHRUB ROOT BALL AND ADJACENT PREPARED SOIL SOIL TO BE PREPARED PER SEVERAL TIMES DURING THE FIRST TABLE PRIOR TO PLANTING MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS. • MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM LAWN OF MODIFY EXTREMELY SANDY SOILS PAVING (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL SUBGRADE INSTALLATION GUIDELINES: LOOP TIE AROUND TREE AND NAIL TO CEDAR STAKE REMOVE ALL STAKING AND TIES AT END OF FIRST GROWING SEASON FOLD ENDS OF ARBORTIE BACK. SECURE TO STAKES

> CONSULT LANDSCAPE ARCHITECT FOR STAKING OF TREES LARGER THAN 6 SOURCES INCLUDE

- CSP OUTDOORS 1-800-592-6940 or CSPOUTDOORS.COM
- **ARBORTIE DETAIL** 
  - NOT TO SCALE
- WITH 1" GALVANIZED ROOFING NAIL OR USE A
- GEMPLERS 1-800-332-6744 or GEMPLERS.COM
- KNOT

#### PLANT QUALITY AND HANDLING NOTES

REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION. 2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER

COMMON NAMES 3. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND, HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE 4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (1-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE

REJECTED 5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE

6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. 7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO

ENCOMPASS THE FIBROUS ROOT FEEDING SYSTEMS NECESSARY FOR THE HEALTHY DEVELOPMENT OF THE PLANT. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.

8. PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE PLANTS. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS. EVIDENCE OF INADEOUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT, OR IMPROPER HANDLING OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE 9. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING DETAILS

10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN POSSIBLE. THE ROOT BALL SHALL BE KEPT MOIST AT ALL TIME AND COVERED WITH MOISTENED MULCH OR AGED WOODCHIPS. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS HALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING, AND LEAF LOSS, PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE 11. NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL

12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED. 13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO

RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT. 14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS, AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2') ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR AGENCY

15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS: PLANTS (MARCH 1 - JUNE 11 OR OCTOBER 1 - UNTIL PREPARED SOIL BECOMES FROZEN)

LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1) 16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPLANT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15)

**OSTRYA VIRGINIANA** 

PINUS NIGRA

ABIES CONCOLOR	CORNUS VARIETIES
ACER BUERGERIANUM	CRATAEGUS VARIETIES
ACER FREEMANII	CUPRESSOCYPARIS LEYLANDII
ACER RUBRUM	FAGUS VARIETIES
ACER SACCHARINUM	HALESIA VARIETIES
BETULA VARIETIES	ILEX X FOSTERII
CARPINUS VARIETIES	ILEX NELLIE STEVENS
CEDRUS DEODARA	ILEX OPACA
CELTIS VARIETIES	JUNIPERUS VIRGINIANA
CERCIDIPHYLLUM VARIETIES	KOELREUTERIA PANICULATA
CERCIS CANADENSIS	LIQUIDAMBAR VARIETIES
CORNUS VARIETIES	LIRIODENDRON VARIETIES
CRATAEGUS VARIETIES	MALUS IN LEAF
	NYSSA SYLVATICA

PLATANUS VARIETIES POPULUS VARIETIES PRUNUS VARIETIES PYRUS VARIETIES QUERCUS VARIETIES (NOT Q. PALUSTRIS) SALIX WEEPING VARIETIES SORBUS VARIETIES TAXODIUM VARIETIES TAXUX B REPANDENS TILIA TOMENTOSA VARIETIES ULMUS PARVIFOLIA VARIETIES ZELKOVA VARIETIES

17. IF A PROPOSED PLANT IS UNATTAINABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT, ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION.

18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY and promptly removed at the end of each work day. All debris, materials, and tools shall be properly STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.

19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY.

20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED. 21. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR )THER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS IF ORIGINALI REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.

2. MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE UNDERLYING TURF. MOW GRASS AREAS IN SUCH A MANNER AS TO PREVENT CLIPPINGS FROM BLOWING ON PAVED AREAS, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS

3. GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND MULCHING

24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD. A SEPARATE CONTRACT SHALL BE ESTABLISHED. 25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY

MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OR A WATERING TRUCK OR OTHER ACCEPTABLE MANNER. 26. THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL. 27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND ESTABLISHMENT

### PLANT MATERIAL GUARANTEE NOTES

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (1 YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE

2. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE. THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS. 3. ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, vandalism, physical damage by animals, vehicles, etc., and losses due to curtailment of water by local AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.

4. THE CONTRACTOR SHALL INSTRUCT THE OWNER AS TO THE PROPER CARE AND MAINTENANCE OF ALL PLANTINGS.

#### LAWN (SEED OR SOD) NOTES:

1. SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOD SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS. 2. SEED OR SOD SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND WITHIN THE PROVIDED "SEED SPECIFICATION" OR "SOD SPECIFICATION."

3. REFERENCE LANDSCAPE PLAN FOR AREAS TO BE SEEDED OR LAID WITH SOE 4. SEEDING SHALL NOT BE PERFORMED IN WINDY WEATHER. IF THE SEASON OF THE PROJECT COMPLETION PROHIBITS PERMANENT STABILIZATION, TEMPORARY STABILIZATION SHALL BE PROVIDED IN ACCORDANCE WITH THE "TEMPORARY SEEDING SPECIFICATION.

5. PROTECT NEW LAWN AREAS AGAINST TRESPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRESPASS, EROSION, WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.

![](_page_11_Figure_85.jpeg)

![](_page_12_Figure_0.jpeg)

2022/DET-220436-EROP LLC-2737 SOUTH ADAMS ROAD, ROCHESTER HILLS, MINCADD/PLOT/SDP-13-18-DETL.D/

![](_page_13_Figure_0.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_3.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_2.jpeg)

![](_page_15_Figure_3.jpeg)

![](_page_15_Figure_4.jpeg)

![](_page_16_Figure_0.jpeg)

	EMERGENCY SPILLWAY			CONTECH STORMRAX <sup>™</sup> – PEAK ROOF TRASH RACK OR APPROVED EQUAL
	EL. 876.50'			SPILLWAY STRUCTURE – GRT: 873.32
SLOPE JTLET EL. 868.84'		3.25" ORIF	FICE $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$ $A$	3.25" ORIFICE
4" EL	ORIFICE EL. 868.84 . 868.84		<u>CROSS SECTION</u>	
D BASIN DETAIL		NOTE: 1. STRUC 2. STRUC 3. ALL JOI 4. TRASH	TURE SHALL SUPPORT H25 LOADING. TURE TO BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE. INTS TO BE WATER-TIGHT. RACKS CONSTRUCTED OF NON-CORROSIVE MATERIALS TO BE PROV	PRECAST CONCRETE STRUCTURE WITH FOOTING 36" BELOW GRADE
MPACT SOILS BELOW BASIN BOTTOM.	2			<u>ABOVE-GROU</u>
ORMWATER MANAG	EMENT CALCULATIO	NS	PART D: Water Quality Control	
(Based on Oakland County Stormwater Mar	nagement Regulations (11-21-2021 ordinance)		$V_{WQ} = 3,630 * C * A$	Water Quality
ochester Hills	Designer: JRC	Date: 08/21/23	$Q_{WQ} = C * A * (30.20 / (T_c + 9.17)^{0.81})$	Water Qua
ce Runoff			Is a Forebay Proposed On-Site? No	Forebay Design is
ea (AC) Area (SF)	C-Value*	Weighted Value	V <sub>F-R</sub> = 545 * C * A	Required Foreba
0.92 40,177 x	0.95 =	38,168		Provided Fereba
1.65 /1,844 X	0.15		Cumun	
2.57 112,021	<b></b>	48,945	PART E: Channel Protection Rate Control: Exten	ided Detention
ndards, Section III, Part 'A'	Composite C Value, C:	0.44	$V_{ED} = 6,897 * C * A$	Extended Detention
	Water Quality Intensity, $I_{WQ}$ :	<b>2.76</b> IN/HR	8	T
min	Design Storm Period, P:	I YEARS	$H_{ED} = V_{ED} / (4,666 * \sqrt{h_{ED}})$	# I" Holes Required to Contro
Assume 15 min	Time of Concentration, T <sub>C</sub> :	<b>10.0</b> MINS	PART E. Detention & Elect Control Escilition	
ume Control		l	$Q_{1001N} = C * I_{100} * A$	100-yr Post-Development Peak Inflo
	Required CPVC Volume, V <sub>CP-R</sub> :	5,339.67 CF	$I_{100} = 83.3 / [(T_c + 9.17) \wedge (0.81)]$	I 00-yr Rainfa
	Provided CPVC Volume, V <sub>CP-P</sub> :	<b>0.00</b> CF	$O_{VRR} = 1.1055 - 0.206*LN(A)$	Variable Rele
te? No	CPVC is Waived	Infiltration on an adversely	*Allowable Peak Release Rate Not to Exceed: 1) Restircted Rate for th	e Drain, or 2) The prorated Share of the Drain's
Dn-Site? No	Infiltration is Waived	impacted site such as the subject	$Q_{100P} = Q_{VRR} * A$	I00-YR Relea
		exacerbation of contamination.		
le for infiltration	Infiltration Bate Kau-	0 00 in/br	R = 0.200 - 0.15 * LN (Q 100P / Q 100IN)	Storage C
ipplimental Measeures Required		0.00	V <sub>100R</sub> = 18,985 * C * A	Post Development 100-yr Runoff
easeures Required	Area of Ponding Depth, A <sub>1</sub> :	<b>0.00</b> FT	$\mathbf{V}_{100D} = \mathbf{V}_{100R} * R - \mathbf{V}_{CP-P}$	100-yr Detention
ntion Basin / Rain Garden)	Area of Area Bottom, A <sub>2</sub> :	0.00 FT	PART F.I: Proposed Detention Volume	
	Average Infiltration Area, A <sub>T</sub> :	0.00 SF	Elevation Surface Area (SF) Total Volume (Cl	F) I 00-Year F
	Max Ponding Depth, H:	<b>0.00</b> CF	868.84 0 869.00 336	0 Min. Freebo
STONE) * <b>A</b> 2	Surface Storage Volume, Vss:	<b>0.00</b> CF	870.00 1,065	727 <b>50% N</b>
			871.00 2.021 22 872.00 3.202 4	,270 ,882 Basin volume calcula
TONE: U.UU TONE: 0.00	Subsurface Storage, V <sub>SUB</sub> :	N/A_CF	873.00 4,610 8	,788
	Infiltration Volume (6 Hrs) V.	0 00 <i>CE</i>	874.00         6,244         14           875.00         8,104         21	,215 ,389
			876.00 10,190 30	,536
	Total Volume , V <sub>I</sub> :	N/A CF	877.00 12,502 FREEBOA	ARD
			PART F.2: Detention System Outlet & Overflow S	Structure Design
			Q <sub>ED</sub> = V <sub>ED</sub> / 172800	Extended Detention Rel
			Minimum 3" Orifice Diameter without additional	Proposed Control Orifice

### **STORMWATER CALCULATIONS**

Clogging Protection. Minimum I" orifice overall.

 $Q_P = C_0 * A_0 * \sqrt{(2 * g * h)}$ 

 $(C_0 \text{ is assumed to be } 0.62)$ 

NOT TO SCALE

![](_page_16_Figure_5.jpeg)

5

![](_page_17_Figure_0.jpeg)

IDET-220436-EROP LLC-2737 SOUTH ADAMS ROAD, ROCHESTER HILLS, MICADD/PLOTISDP-13-18-DET

![](_page_17_Figure_2.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_18_Figure_2.jpeg)

GENERAL NOTES

- 1. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE documents. Should any discrepancy be found between the
- EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION. 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED
- PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES
- LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
- IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, II C
- METHODS OF CONSTRUCTION. 6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE
- 7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE.
- 8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS
- ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. 10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE
- PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS. 11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED
- SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
- NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

![](_page_19_Figure_0.jpeg)

RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT	) NUM	ΤΥΡΕ	RIM (FT)	SIZE (IN)	DIR	INV ELEV (FT)
875.22	12	Ν	870.62	120170	STORM MH	879.41	18	Е	872.01
875.22	T/WAT	ER	870.72			879.41	18	W	872.01
875.22	B/STRUC	TURE	868.82	120182	STORM CB	878.23	12	NE	873.23
875.21	12	E	870.21			878.23	T/WAT	ΓER	873.13
875.21	T/WAT	ER	870.81			878.23	B/STRUC	TURE	871.33
875.21	B/STRUC	TURE	869.01	120183	STORM MH	878.57	24	Е	871.12
875.96	NO VISIBLE	E PIPES				878.57	12	SW	872.97
875.96	T/WAT	ER	872.76			878.57	18	W	871.22
875.96	B/STRUC	TURE	871.56	120218	STORM MH	877.47	24	Е	870.47
877.14	NO VISIBLE	E PIPES				877.47	24	W	871.17
877.14	T/WAT	ER	873.84	120255	STORM CB	876.40	12	NE	872.4
877.14	B/STRUC	TURE	872.24			876.40	T/WA	ΓER	872.3
878.37	NO VISIBLE	E PIPES				876.40	B/STRUC	TURE	870.9
878.37	T/WAT	ER	874.72	120256	STORM MH	877.06	24	Е	867.96
878.37	B/STRUC	TURE	873.67			877.06	12	SW	872.06
878.10	8	Е	864.95			877.06	24	W	869.46
878.10	8	W	865.00	120287	STORM MH	875.98	24	Е	867.23
878.31	8	Е	865.41			875.98	12	SW	868.48
878.31	8	W	865.41			875.98	24	W	867.38
881.85	12	Е	875.85	120288	STORM CB	875.04	12	S	870.59
881.85	12	S	876.15			875.04	T/WA	ΓER	870.44
881.21	15	Е	874.91			875.04	B/STRUC	TURE	868.74
881.21	12	W	875.91	120309	STORM MH	874.68	24	Е	860.18
881.01	18	Е	873.51			874.68	24	W	867.18
881.01	15	W	874.61	120435	STORM CB	881.56	12	Е	876.76
879.57	12	NE	874.27			881.56	12	W	876.56
879.57	T/WAT	ER	874.17	120436	STORM CB	881.22	12	Ν	876.42
879.57	B/STRUC	TURE	872.37			881.22	12	W	876.22
880.20	18	Е	872.70	120437	STORM CB	881.61	12	SE	876.21
880.20	18	W	872.70			881.61	12	W	876.41

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

## **GENERAL NOTES**

- 1. ALL CONSTRUCTION PROCEDURES AND MATERIALS SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS.
- 2. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE CITY OF ROCHESTER HILLS AND HELD PRIOR TO THE START OF CONSTRUCTION.
- 3. CONTRACTOR MUST CONTACT MISS DIG (811) AT LEAST THREE WORKING DAYS PRIOR TO THE START OF CONSTRUCTION FOR UNDERGROUND UTILITY LOCATIONS. ALL UTILITIES SHALL BE STAKED BEFORE CONSTRUCTION BEGINS
- 4. ALL WATER MAIN EASEMENTS SHALL BE PROVIDED PRIOR TO CONSTRUCTION AND ACCEPTANCE OF THE WATER DISTRIBUTION SYSTEM.
- 5. WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 6 FEET BELOW FINISHED GRADES. INCLUDING OPEN DRAINAGE COURSES.
- 6. ALL TRENCHES UNDER OR WITHIN A 1:1 RATIO OF EXISTING OR PROPOSED PAVEMENT OR DRIVEWAYS, SHALL BE BACKFILLED WITH COMPACTED CLASS II SAND TO GRADE (95% MAXIMUM UNIT DENSITY). 7. WHERE TWO UTILITIES CROSS, PROVIDE CLASS II BACKFILL MATERIAL IN SIX (6) INCH COMPACTED LAYERS TO TOP OF HIGHEST UTILITY.
- 8. WHERE WATER MAINS DIP UNDER OTHER UTILITIES, THE SECTIONS WHICH ARE DEEPER THAN NORMAL SHALL BE CONSTRUCTED WITH 11-1/4° VERTICAL BENDS, 22 1/2° OR 45° BENDS MUST BE RODDED AND PROPERLY ANCHORED.
- 9. ALL PRECAST CONCRETE GATE WELL SECTIONS SHALL BE IN ACCORDANCE WITH A.S.T.M. C478, STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS. WALL THICKNESS SHALL BE AS SHOWN ON THESE DETAILS. ALL JOINTS FOR PRECAST CONCRETE GATE WELL SECTIONS SHALL BE "MODIFIED GROOVE TONGUE" WITH GASKET MANUFACTURED TO CONFORM WITH A.S.T.M. C 443, STANDARD SPECIFICATION FOR JOINTS FOR CIRCULAR CONCRETE SEWER AND CULVERT PIPE USING RUBBER GASKETS
- 10. CONTRACTOR SHALL INSTALL VALVES, TAPPING SLEEVES AND GATE WELL STRUCTURES IN STRICT COMPLIANCE WITH MEASUREMENTS PROVIDED ON SHEET 1 (2'-0" BETWEEN GATE WELL WALL & CENTERLINE OF OPERATING NUT) TO ALLOW PROPER OPERATION OF VALVE THROUGH GATE WELL OPENING.
- 11. ALL CROSS-CONNECTION CONTROL DEVICES SHALL BE INSTALLED AS REQUIRED BY THE ROCHESTER HILLS PLUMBING INSPECTOR AND IN ACCORDANCE WITH THE STANDARDS OF THE OAKLAND COUNTY WATER RESOURCE COMMISSIONER OPERATION AND MAINTENANCE DIVISION AND THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF DRINKING WATER AND RADIOLOGICAL PROTECTION.
- 12. ALL WATER SERVICE CONNECTIONS TWO (2) INCHES AND SMALLER SHALL BE MADE BY THE CITY OF ROCHESTER HILLS. DEPARTMENT OF PUBLIC SERVICES AFTER WATER MAIN ACCEPTANCE AND APPLICABLE PERMITS ARE OBTAINED.
- 13. ALL FITTINGS AND BENDS SHOULD BE BLOCKED IN ACCORDANCE WITH THRUST BLOCK DETAILS, UNLESS ALTERNATE THRUST RESTRAINT SYSTEM. AS INDICATED PLANS AND SPECIFICATIONS, IS APPROVED BY THE CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICE.

## WATER MAIN MATERIALS NOTES

- 1. TEMPORARY CONNECTIONS, WHICH MAY BE MADE FOR CHLORINATING AND FLUSHING PURPOSES, SHALL INCLUDE A TESTABLE DOUBLE CHECK VALVE BACKFLOW PREVENTER WITH CURRENT CERTIFICATION.
- 2. CORPORATION STOPS USED FOR INSERTION INTO MAINS SHALL BE FORD TYPE B-44. ALL STOPS SHALL HAVE BRONZE CAST BODIES, KEYS, STEM WASHERS AND NUTS. INLET THREADS SHALL CONFORM TO THE LATEST VERSION OF AWWA C800. 3. ALL DUCTILE IRON PIPE (D.I.P.) WATER MAIN SHALL BE DESIGNED FOR 150 PSI MINIMUM WORKING PRESSURE. A ZINC
- COATING WITH CLASS 52 MAY BE PROPOSED AND IS SUBJECT TO FINAL DECISION FOR APPROVAL BY THE CITY ENGINEER. 4. THE DUCTILE IRON PIPE TO BE FURNISHED AND DELIVERED UNDER THIS SPECIFICATION SHALL MEET ALL THE REQUIREMENTS OF THE CURRENT AWWA C151 (ANSI A21.5), EXCEPT AS OTHERWISE SPECIFIED HEREIN. PIPE SHALL BE DOUBLE CEMENT-LINED AND SEAL COATED WITH AN APPROVED BITUMINOUS SEAL COAT IN
- ACCORDANCE WITH AWWA C104 (ANSI A21.4). DUCTILE IRON PIPE SHALL BE CLASS 54 FOR SIZES THREE (3) INCH THROUGH TWENTY (20) INCHES SIZE. TWENTY-FOUR (24) INCH AND LARGER SHALL BE CLASS 55 DUCTILE IRON PIPE
- 6. PIPES TWENTY-FOUR (24) INCHES AND LARGER IN NOMINAL DIAMETER SHALL MEET ALL THE
- REQUIREMENTS OF THE CURRENT AWWA C100 FOR DUCTILE IRON WATER PIPE.
- 7. MECHANICAL JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C111 (ANSI A21.11). 8. FLANGE JOINTS FOR DUCTILE IRON WATER MAIN SHALL BE IN ACCORDANCE WITH AWWA C110 (ANSI A21.10).
- 9. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE IRON AND SHALL MEET REQUIREMENTS OF AWWA C110 (ANSI A21.10) OR AWWA C153 (ANSI A21.53). DUCTILE IRON FITTINGS SHALL BE RATED FOR 350 PSI, PIPE SIZES TWENTY-FOUR (24) INCH DIAMETER AND LESS, AND 250 PSI FOR PIPE SIZES OVER TWENTY-FOUR (24) INCH DIAMETER. DUCTILE IRON FLANGE FITTINGS SHALL BE RATED FOR 250 PSI FOR ALL PIPE DIAMETERS.
- 10. ALL DUCTILE IRON PIPE, FITTINGS AND HYDRANTS SHALL BE ENCASED WITH POLYETHYLENE ENCASEMENT IN ACCORDANCE WITH THE REOUIREMENTS OF A.N.S.I./A.W.W.A. STANDARD SPECIFICATION D1248 AND AWWA C105. POLYETHYLENE TUBE MATERIAL SHALL HAVE A THICKNESS OF .008" (8-MILS). ADHESIVE TAPE SHALL BE A GENERAL PURPOSE ADHESIVE TAPE 2" WIDE AND APPROXIMATELY 10-MILS THICK, SUCH AS SCOTCHRAP. NO.50, POLYKEN NO. 900. OR TAPECOAT CT.

## VALVE AND SLEEVE NOTES

- 1. GATE VALVES, SIZES THREE (3) INCH THROUGH SIXTEEN (16) INCH AND TAPPING VALVES SHALL MEET THE CITY OF ROCHESTER HILLS STANDARD AS DETAILED WITH NON-RISING STEM. (EAST JORDAN, AMERICAN FLOW CONTROL, MUELLER)
- 2. ALL IN LINE GATE VALVES EIGHT (8) INCH AND LARGER SHALL BE IN WELLS. SPECIFICATIONS SHALL INCLUDE THE DIRECTION OF OPERATION OF ALL VALVES (CLOCKWISE CLOSURE). VALVE BOX USE TO BE APPROVED BY ENGINEERING DIVISION 3. ALL GATE WELL COVERS SHALL BE CITY OF ROCHESTER HILLS STANDARD AS DETAILED.
- 4. ALL GATE VALVES WITH OPERATING NUTS AT A DISTANCE GREATER THAN FIVE (5) FEET BELOW GROUND SURFACE SHALL BE PROVIDED WITH AN EXTENSION STEM. THE LENGTH OF THE EXTENSION STEM SHALL REACH WITHIN FIVE (5) FEET FROM THE GROUND SURFACE. WHEN AN EXTENSION STEM IS USED, IT SHALL BE HELD IN PLACE BY AN EXTENSION STEM GUIDE SUITABLY FASTENED TO THE WALL OF THE GATE WELL. THE EXTENSION STEM SHALL BI MECHANICALLY ATTACHED TO THE OPERATING NUT. DETAILS OF THE EXTENSION SYSTEM AND THE METHOD OF
- INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION BUTTERFLY VALVES SHALL BE USED FOR VALVES GREATER THAN 16-INCH DIAMETER AND SHALL BE MODEL 2F11 AS MANUFACTURED BY HENRY PRATT COMPANY OR APPROVED EQUAL.
- 6. TAPPING VALVES SHALL BE SERIES "A" AS MANUFACTURED BY EAST JORDAN OR RESILIENT SEATED GATE VALVES AS APPROVED BY THE CITY OF ROCHESTER HILLS ENGINEERING SERVICES.
- 7. TAPPING SLEEVES SHALL BE MANUFACTURED BY ROMAC INDUSTRIES; MUELLER; EAST JORDAN; SMITH-BLAIR OR APPROVED EQUAL AND APPROVED BY THE CITY OF ROCHESTER HILLS. FULL BODY SLEEVES MUST BE USED EXCEPT FOR REINFORCED CONCRETE PRESSURE PIPE OR A.C. PIPE.

City of Rochester Hills 1000 Rochester Hills Drive, Rochester Hills, Michigan 48309

|--|

- 1. ALL HYDRANTS SHALL BE CONSTRUCTED WITH A SIX (6) INCH COMPANION GATE VALVE IN A THREE (3) PIECE. ADJUSTABLE DUCTILE IRON VALVE BOX. WHICH SHALL INCLUDE A FIVE AND ONE-OUARTER (5-1/4) INCH SCREW SHAFT. VALVE BOXES SHALL BE SERIES 6860 AS MANUFACTURED BY TYLER PIPE OR APPROVED EQUAL.
- . ALL HYDRANTS SHALL BE EAST JORDAN NO. 5-BR-250 TRAFFIC MODEL, OR CITY APPROVED EQUAL SELF-DRAINING HYDRANTS SHALL NOT BE USED. HYDRANTS SHALL HAVE BREAKAWAY FLANGE.
- 3. ALL HYDRANTS SHALL BE PAINTED RED ABOVE GROUND WITH A FINISH COAT OF RUST-OLEUM SAFETY RED OR APPROVED EQUAL. HYDRANT CAPS SHALL BE PAINTED SAME COLOR AS THE HYDRANT.
- 4. ALL FIRE HYDRANT JOINTS SHALL BE TOTALLY RESTRAINED BY THE USE OF RESTRAINED JOINT. THRUST BLOCKS ARE ALSO REQUIRED.

## ACCEPTANCE OF NEW WATER MAINS

- 1. PRIOR TO WATER MAIN ACCEPTANCE THE FOLLOWING CONDITIONS MUST BE MET: 1) PRESSURE TESTING AND BACTERIA TESTING MUST BE COMPLETED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS 2) ALL EASEMENT AND RIGHT-OF-WAY ACQUISITION MUST BE ACCEPTED BY THE CITY OF ROCHESTER HILLS ENGINEERING SERVICES 3) THE CITY OF ROCHESTER HILLS MUST BE PROVIDED WITH THE BILL OF SALE AND 4) ALL MYLAR "AS - BUILT DRAWINGS" MUST BE ACCEPTED AND APPROVED BY THE CITY OF ROCHESTER HILLS, ENGINEERING SERVICES. THE CITY OF ROCHESTER HILLS INSPECTION DIVISION MUST WITNESS THE CONNECTION OF THE WATER MAIN TO THE EXISTING WATER MAIN, AFTER WHICH RESIDENTIAL AND COMMERCIAL TAPS WILL BE ALLOWED
- 2. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROCHESTER HILLS, INSPECTION DEPARTMENT (248.841.2510) FOR PRESSURE TESTING, BACTERIOLOGICAL SAMPLING, CONNECTIONS TO EXISTING WATER MAIN AND FINAL FIELD REVIEW. A FORTY-EIGHT (48) HOUR ADVANCE NOTICE IS REQUIRED.
- 3. THE CONTRACTOR SHALL DISINFECT AND PRESSURE TEST ALL NEW WATER MAIN IN ACCORDANCE WITH ROCHESTER HILLS STANDARDS. THE WATER MAIN SHALL PASS A 150 PSI PRESSURE TEST FOR A TWO (2) HOUR PERIOD. WATER LOSS SHALL NOT EXCEED A RATE OF 11.65 U.S. GALLONS PER INCH DIAMETER PER MILE OF WATER MAIN IN TWENTY-FOUR (24) HOURS.
- 4. WHERE CONTRACTOR SUPPLIED GAUGES ARE REQUIRED, MINIMUM SIZE SHALL BE 3 1/2" DIAMETER OR LARGER GRADUATED IN ONE (1) OR TWO (2) POUND INCREMENTS FROM 1 TO 160 P.S.I. OR HIGHER AND HAVE CURRENT CERTIFICATION.
- 5. PRESSURE TESTING AND BACTERIA TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING TO THE EXISTING WATER MAIN.

### CITY OF ROCHESTER HILLS WATER SYSTEMS **AS-BUILT DRAWING SPECIFICATIONS**

IN AREAS WHERE WATER SYSTEMS ARE OPERATED AND MAINTAINED BY THE CITY OF ROCHESTER HILLS DEPARTMENT OF PUBLIC SERVICES, FINAL ACCEPTANCE OF THE WATER SYSTEM MUST BE RENDERED BY THE DEPARTMENT OF PUBLIC SERVICES, BEFORE THE SYSTEM CAN BE USED FOR THE SERVICE INTENDED

ONE ITEM REQUIRED FOR FINAL ACCEPTANCE SHALL BE THE SUBMISSION OF AS-BUILT DRAWINGS TO THE CITY OF ROCHESTER HILLS, DPS, BY THE DESIGN ENGINEER. AS-BUILT DRAWINGS SHALL BE DEFINED AS AND CONTAIN THE FOLLOWING INFORMATION:

- 1. FINAL AS-BUILT DRAWINGS SHALL BE PROVIDED IN REPRODUCIBLE PDF FORMAT VIA DIGITAL STORAGE MEDIA. XEROX OR ANY HEAT PROCESS REPRODUCTIONS WILL NOT BE ACCEPTED.
- 2. ALONG WITH THE PDF PLAN SET PROVIDE TWO (2) SETS OF BLACK-LINED DRAWINGS AND THE PLANS ON ELECTRONIC MEDIA IN AUTOCAD FORMAT (LATEST VERSION).
- 3. EACH AND EVERY SHEET SHALL BE SEALED BY THE DESIGN ENGINEER, ALONG WITH THE FOLLOWING CERTIFICATION STATEMENT ON THE COVER SHEET:

I HEREBY CERTIFY THAT OUR FIRM HAS PREPARED THESE AS-BUILT DRAWINGS OF THE IMPROVEMENTS AS CONSTRUCTED, AND THAT TO THE BEST OF MY KNOWLEDGE THOSE IMPROVEMENTS NOTED AS "AS BUILT" WERE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CONSTRUCTION PLANS; AND ALSO THAT THE WATER MAIN AND STRUCTURES, AS CONSTRUCTED, LIE WITHIN THE EASEMENT DESCRIPTIONS REQUIRED BY THE CITY OF ROCHESTER HILLS

(COMPANY NAME)

(ENGINEER'S SIGNATURE)

PROFESSIONAL ENGINEER NO.

ENGINEER SEAL

- 4. THE MAXIMUM SCALE SHALL BE ONE (1) INCH EQUALS FIFTY (50) FEET
- 5. THE SIZE, LENGTH, CLASS AND MANUFACTURER OF PIPE INSTALLED SHALL BE INDICATED
- 6. THE SIZE, BRAND AND MODEL NUMBERS OF ALL VALVES AND HYDRANTS INSTALLED SHALL BE INDICATED 7. A TOTAL AS-BUILT DRAWING QUANTITY LIST SHALL BE INCLUDED, AS WELL AS AN AS-BUILT
- DRAWING QUANTITY LIST ON EACH INDIVIDUAL SHEET.
- 8. THE LOCATIONS SHALL BE SHOWN ON THE PLANS WITH AN ACCURACY OF ONE (1) FOOT. 9. THE OFFSET OF THE WATER MAIN FROM PROPERTY LINES SHALL BE INDICATED.
- 10. ALL GATE VALVE WELLS, HYDRANTS AND ALL WATER SYSTEM APPURTENANCES SHALL BE LOCATED FROM TWO FIXED OBJECTS (MANHOLES, BUILDING CORNERS ECT.).
- 11. ALL UNDERGROUND APPURTENANCES, SUCH AS GATE VALVE WELLS, METER PITS, PRESSURE REDUCING VALVE PITS, ETC. SHALL BE LOCATED FROM THE NEAREST HYDRANT THAT IS CONNECTED TO THE SAME WATER MAIN AS THE APPURTENANCE.
- 12. THE LOCATION AND SIZE OF EVERY RESTRAINED JOINT SHALL BE NOTED.
- 13. THE ACCURATE LOCATION OF ALL UTILITY CROSSINGS WHERE THE VERTICAL SEPARATION, IS LESS THAN 18" SHALL BE NOTED.

14. AS-BUILT SHALL BE PREPARED IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS AS-BUILT GUIDELINES AS PROVIDED AT THE PRE-CONSTRUCTION MEETING

![](_page_21_Picture_65.jpeg)

## WATER MAIN STANDARD DETAILS

NOT TO SCALE

DATE: 1/10/2019

SHEET 2 OF 2

![](_page_22_Figure_0.jpeg)

	$\checkmark$		20" X 4"	1/4"	7/8"	6	16-1/2 "	24"
	7		20" X 6"	1/4"	1-1/8"	6	16-1/2 "	24"
	<b>—</b>		20" X 8"	1/4"	1-1/8"	6	16-1/2 "	24"
			20" X 10"	1/4"	1-3/8"	7	17"	28"
			20" X 12"	1/4"	1-3/8"	8	17"	32"
			24" X 4"	1/4"	//8'' 1_1/9''	6	10-3/4"	24"
			24" X 8"	1/4"	1-1/8"	6	19"	2.4"
$\mathbf{Y}$			24" X 10"	1/4"	1-3/8"	7	19-1/4"	28"
			24" X 12"	1/4"	1-3/8"	8	19-1/4"	32"
			30" X 4"	1/4"	7/8"	6	22-1/8"	24"
/// <u>/////////////////////////////////</u>			30" X 6"	1/4"	1-1/8"	6	22-3/8"	24"
			30" X 8"	1/4"	1-1/8"	6	22-3/8"	24"
			30" X 10"	1/4"	1-3/8"	7 °	22-5/8"	28"
			36" X 4"	1/4"	7/8"	8 6	22-5/8"	24"
I FOAM SEAL -		×	36" X 6"	1/4"	1-1/8"	6	25-3/4 "	24"
		WASHER	36" X 8"	1/4"	1-1/8"	7	25-3/4 "	28"
'D' —		- WASHER	36" X 10"	1/4"	1-3/8"	8	26"	32"
			36" X 12"	1/4"	1-3/8"	9	26"	36"
C			42" X 4"	1/4"	7/8"	6	28-7/8"	24"
35			42" X 6"	1/4"	1-1/8"	7	29-1/8"	28"
			42" X 8" 42" X 10"	3/8"	1-1/8"	8 9	29-1/8" 29-3/8"	36"
			42" X 12"	3/8"	1-3/8"	10	29-3/8"	40"
			48" X 4"	3/8"	7/8"	7	32-1/4"	28"
			48" X 6"	3/8"	1-1/8"	7	32-1/2"	28"
			48" X 8"	3/8"	1-1/8"	7	32-1/2"	28"
			48" X 10"	3/8"	1-3/8"	7	32-3/4"	28"
			48" X 12"	3/8"	1-3/8"	9	32-3/4"	36"
ANICAL D FENER ED.	BOLT-ON DUAL ST BANDS - HDPE WATEF MAIN	AND ADDLE WITH AINLESS STEEL HDPE SDR 9 HOUSE LEA PPER OR PO	D DET DLYET	- AIL HYI	PROPERTY L	PE E (	CURB STOF BOX	R OR YLENE TYP)
OLTS SHALL BE OW ALLOY AND ED.					R		CHEST LLL HIG	ER A N
OLTS SHALL BE OW ALLOY AND ED.	R MA	IN		NOT	R F M		CHEST	ER S A N
OLTS SHALL BE OW ALLOY AND ED. WATEI	RMA	ΙΝ		NOT			CHEST LLL HIG DATE:	ER S A N 1/10/2019
olts shall be ow alloy and ed. WATEI	R MA DET	IN AILS	SF	NOT <sup>-</sup> IEET	TO SCA		CHEST LLL DATE:	ER S A N 1/10/2019

PIPE SIZE Х

TAP SIZE

16" X 4"

16" X 6"

16" X 8"

16" X 10"

1/2" SQUARE—

RUBBER SEAL

GROUT -

HORN

GROUT

THOLE

D

14-1/16 "

14-5/16 "

14-5/16 "

14-9/16 "

14-9/16 "

24"

24"

24"

28"

32"

В

1/4" 7/8" 6

1/4" 1-1/8" 6

1/4" 1-1/8" 6

1/4" 1-3/8"

16" X 12" 1/4" 1-3/8" 8

![](_page_23_Figure_0.jpeg)

![](_page_23_Figure_3.jpeg)

![](_page_23_Figure_4.jpeg)

### INTERIOR DROP CONNECTION

NOTE: INTERIOR DROP CONNECTION PERMITTED ONLY WHEN APPROVED BY CITY ENGINEER.

*City of Rochester Hills* 000 Rochester Hills Drive, Rochester Hills, Michigan 48309

## SANITARY SEWER CONSTRUCTION NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF ROCHESTER HILLS AND THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER (OCWRC). ALL SANITARY SEWER CONSTRUCTION SHALL HAVE FULL-TIME INSPECTION SUPERVISED BY THE CITY OF ROCHESTER HILLS INSPECTION SERVICES.

2. NO SEWER INSTALLATION SHALL HAVE AN INFILTRATION EXCEEDING 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE IN A 24 HOUR PERIOD, AND NO SINGLE RUN OF SEWER BETWEEN MANHOLES SHALL EXCEED 100 GALLONS PER INCH DIAMETER PER MILE. AIR TESTS IN LIEU OF INFILTRATION TESTS SHALL BE AS SPECIFIED IN THE OAKLAND COUNTY WATER RESOURCES COMMISSIONER STANDARDS. PRELIMINARY-AIR TESTS ARE WITNESSED BY THE CITY AND FINAL AIR TESTS ARE WITNESSED BY BOTH THE CITY AND THE OCWRC. ONLY PIPE AND PIPE JOINTS APPROVED BY THE CITY MAY BE USED FOR SANITARY SEWER CONSTRUCTION.

3. LOCATED IN THE FIRST MANHOLE UPSTREAM FROM THE POINT OF ALL CONNECTIONS TO AN EXISTING SEWER, OR EXTENSION, A TEMPORARY 12-INCH DEEP SUMP SHALL BE PROVIDED IN THE FIRST MANHOLE ABOVE THE CONNECTION WHICH WILL BE FILLED IN AFTER SUCCESSFUL COMPLETION OF ANY ACCEPTANCE TEST UP TO THE STANDARD FILLET PROVIDED FOR THE FLOW CHANNEL. A WATERTIGHT BULKHEAD SHALL BE PROVIDED ON THE DOWNSTREAM SIDE OF THE SUMP MANHOLE.

4. AT ALL TIMES WHEN LAYING OF NEW PIPE IS NOT ACTUALLY IN PROGRESS, THE UPSTREAM OPEN END OF THE PIPE SHALL BE CLOSED BY TEMPORARY WATERTIGHT PLUGS OR BY OTHER APPROVED MEANS. IF WATER IS IN THE TRENCH WHEN WORK IS RESUMED, THE PLUG SHALL NOT BE REMOVED UNTIL THE DANGER OF WATER ENTERING THE PIPE HAS PASSED. ALL MAIN LINE PIPE SHALL BE LAID WITH A PIPE LASER BEAM FOR LINE AND GRADE. A TARGET MUST BE INSTALLED AT THE END OF THE PIPE BEING LAYED.

5. SELF-LEVELING ACCESS ASSEMBLY STRUCTURES SHALL BE USED FOR ADJUSTING STRUCTURES WITHIN ASPHALT AND CONCRETE PAVEMENT.

6. ALL SEWER PIPE SHALL BE INSTALLED IN CLASS "B" BEDDING OR BETTER.

7. ALL NEW MANHOLES SHALL HAVE CITY APPROVED FLEXIBLE, WATERTIGHT SEALS WHERE PIPES PASS THROUGH WALLS. MANHOLES SHALL BE OF PRE CAST SECTIONS WITH MODIFIED GROOVE TONGUE AND BUTYL TYPE JOINTS. PRE CAST MANHOLE CONE SECTIONS SHALL BE CITY APPROVED MODIFIED ECCENTRIC CONE TYPE. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS.

8. AT ALL CONNECTIONS TO MANHOLES IN ALL SEWERS, OR EXTENSIONS, DROP CONNECTIONS WILL BE REQUIRED WHEN THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 18 INCHES.

9. GROUND WATER, STORM WATER, CONSTRUCTION WATER, DOWN SPOUT DRAINAGE OR WEEP TILE DRAINAGE SHALL NOT BE ALLOWED TO ENTER ANY SANITARY SEWER INSTALLATION.

10. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT MISS DIG THREE (3) DAYS IN ADVANCE (811) FOR THE LOCATION OF UNDERGROUND PIPELINE AND CABLE FACILITIES AND SHALL ALSO NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK.

11. AN 18 INCH MINIMUM VERTICAL SEPARATION AND A 10 FOOT MINIMUM HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN SANITARY SEWER AND ALL OTHER UTILITIES.

12. AS A MEANS OF INSURING PROPER INSTALLATION OF THE SANITARY SEWER PIPE, THE CONTRACTOR SHALL VIDEO INSPECT, ACCORDING TO THE CITY OF ROCHESTER HILLS VIDEO INSPECTION STANDARDS, 100% OF THE SANITARY SEWER PIPE. THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO THE CITY OF ROCHESTER HILLS PRIOR TO VIDEO INSPECTION, SO A REPRESENTATIVE MAY BE PRESENT. ROCHESTER HILLS WILL BE PROVIDED WITH A DIGITAL COPY OF THE VIDEO INSPECTION AND LOG IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS INSPECTION STANDARDS.

## SANITARY SEWER MATERIALS

1. THE FOLLOWING MATERIALS MAY BE USED FOR PUBLIC SANITARY SEWER CONSTRUCTION, APPROVED PIPE MATERIALS MUST CONFORM TO STANDARDS ADOPTED BY THE OFFICE OF THE OAKLAND COUNTY WATER **RESOURCES COMMISSIONER:** 

- A.FOR SEWERS 8" TO 15" TO BE PVC TRUSS PIPE, ASTM D-2680, WITH GASKET JOINTS, OTHER TYPES OF PIPE AS APPROVED BY CITY ENGINEER.
- B. FOR 6" SEWER LEADS SHALL BE SOLID WALLED PVC. SDR 23.5. ASTM D-3034 OR PVC SCHEDULE 40 SOLID WALLED, ASTM D-2665. PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 150 P.S.I., AND A MINIMUM DEFLECTION OF 15% AT FAILURE. THE SEWER LEAD MATERIAL SHALL BE COMPATIBLE WITH SEWER MAIN MATERIAL
- C. FOR SEWERS GREATER THAN 15" TO BE REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE CURRENT ASTM D C76 WALL B. JOINTS SHALL BE SYNTHETIC RUBBER AND MEET OR EXCEED THE **REQUIREMENTS ESTABLISHED BY ASTM 361.**

![](_page_23_Picture_27.jpeg)

## SANITARY SEWER STANDARD DETAILS

NOT TO SCALE

DATE: 1/10/2019

SHEET 1 OF 2