

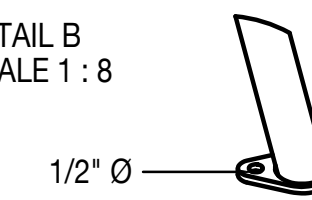
PLAN



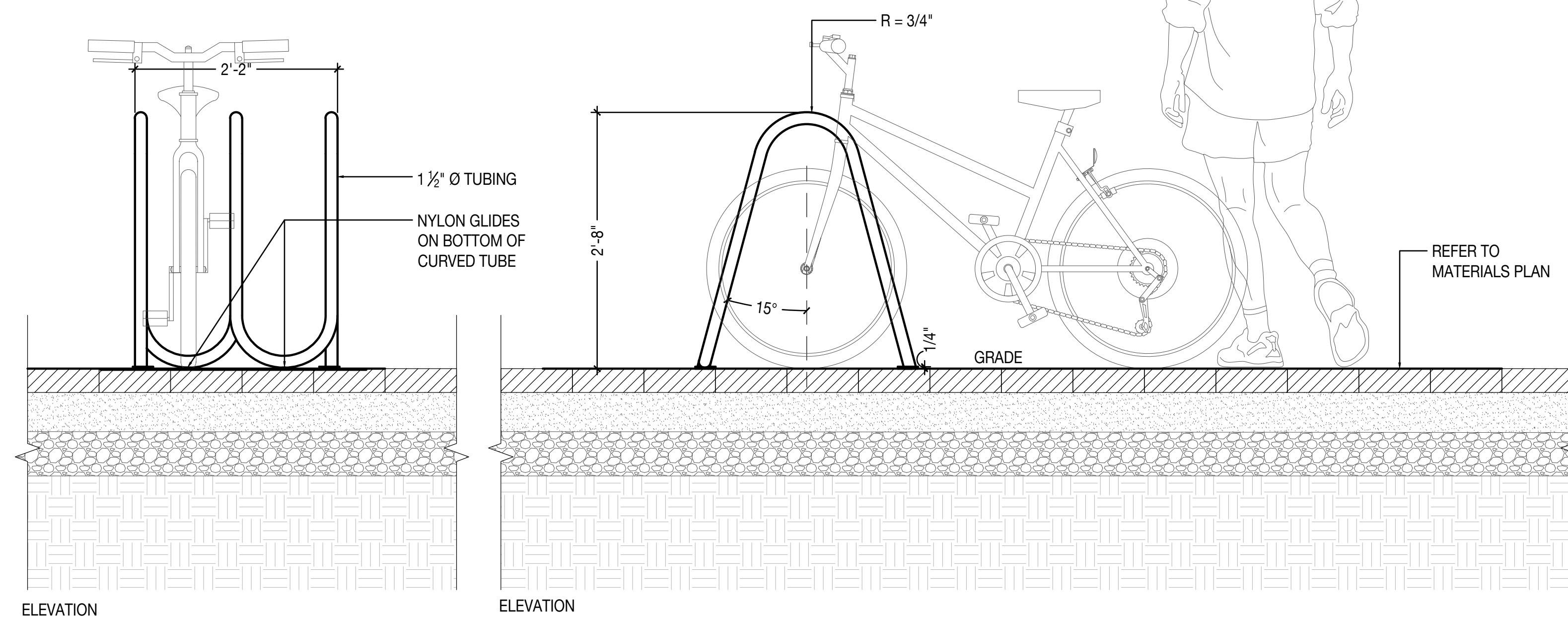
landscapeforms Drawing: FL662-02-PWDR
U.S. Patent No.: D529,433

FLO Bike Rack, Surface Mount, Powdercoated steel
www.landscapeforms.com Ph: 800.521.2546

DETAIL B
SCALE 1 : 8



(2) SURFACE MOUNT TABS WITH Ø7/16" HOLES FOR ANCHORING. NON-CORROSIVE ANCHORING HARDWARE NOT INCLUDED. REFER TO INSTALLATION GUIDE FOR MORE DETAILS.

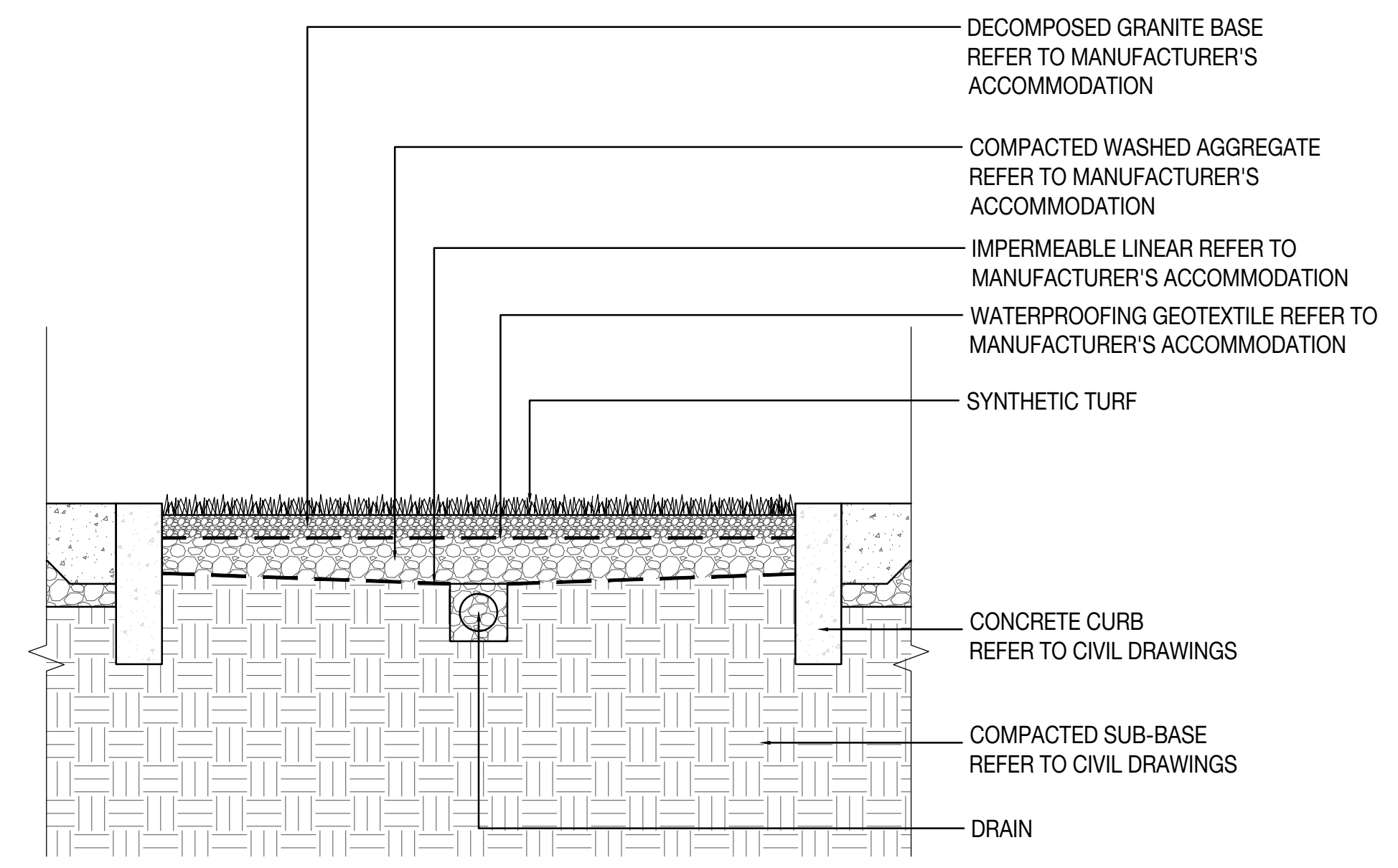


ELEVATION

ELEVATION

1 BIKE RACK

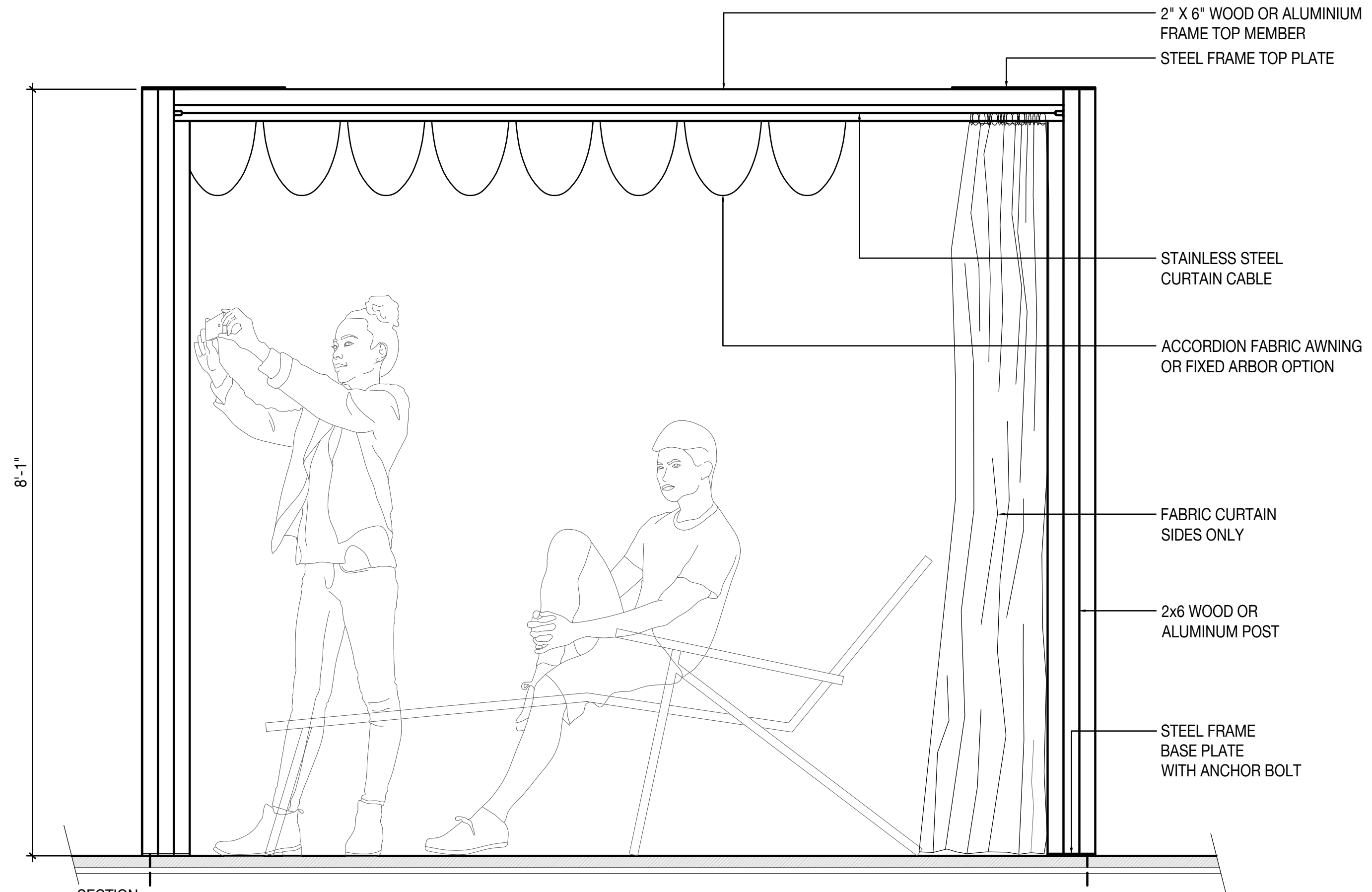
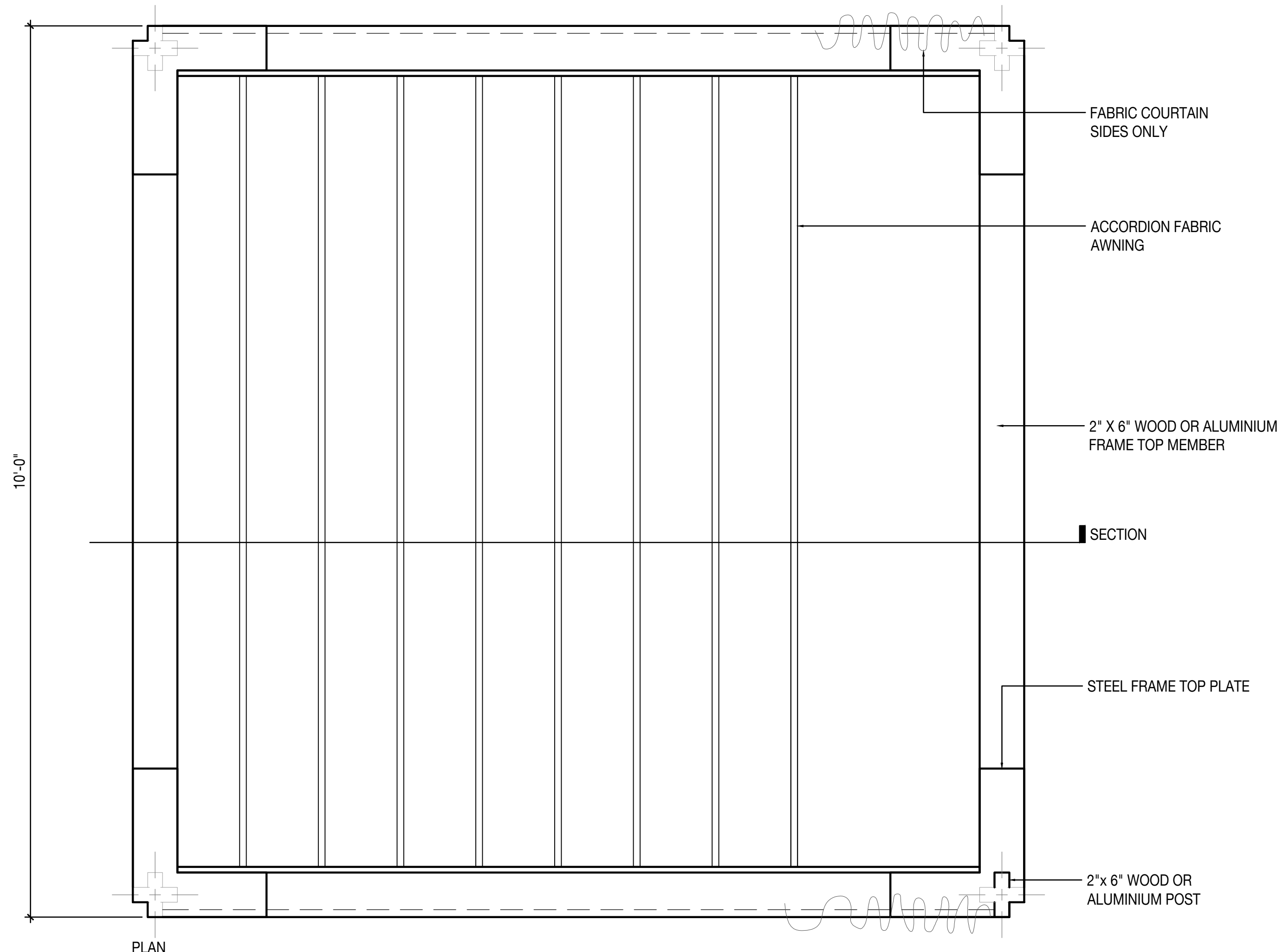
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SECTION

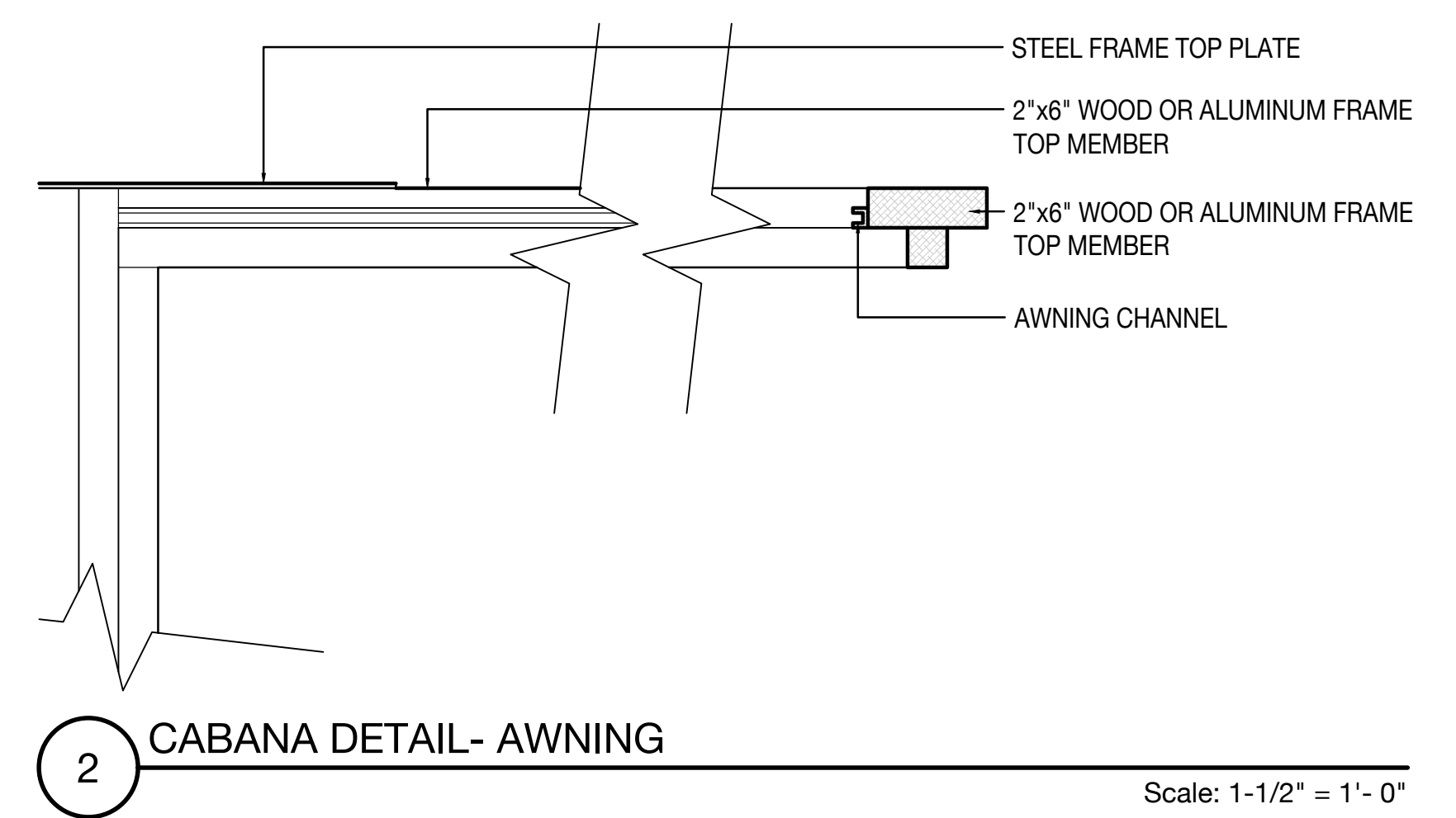
2 SYNTHETIC TURF AT DOG PARK

Scale: 1" = 1'-0"

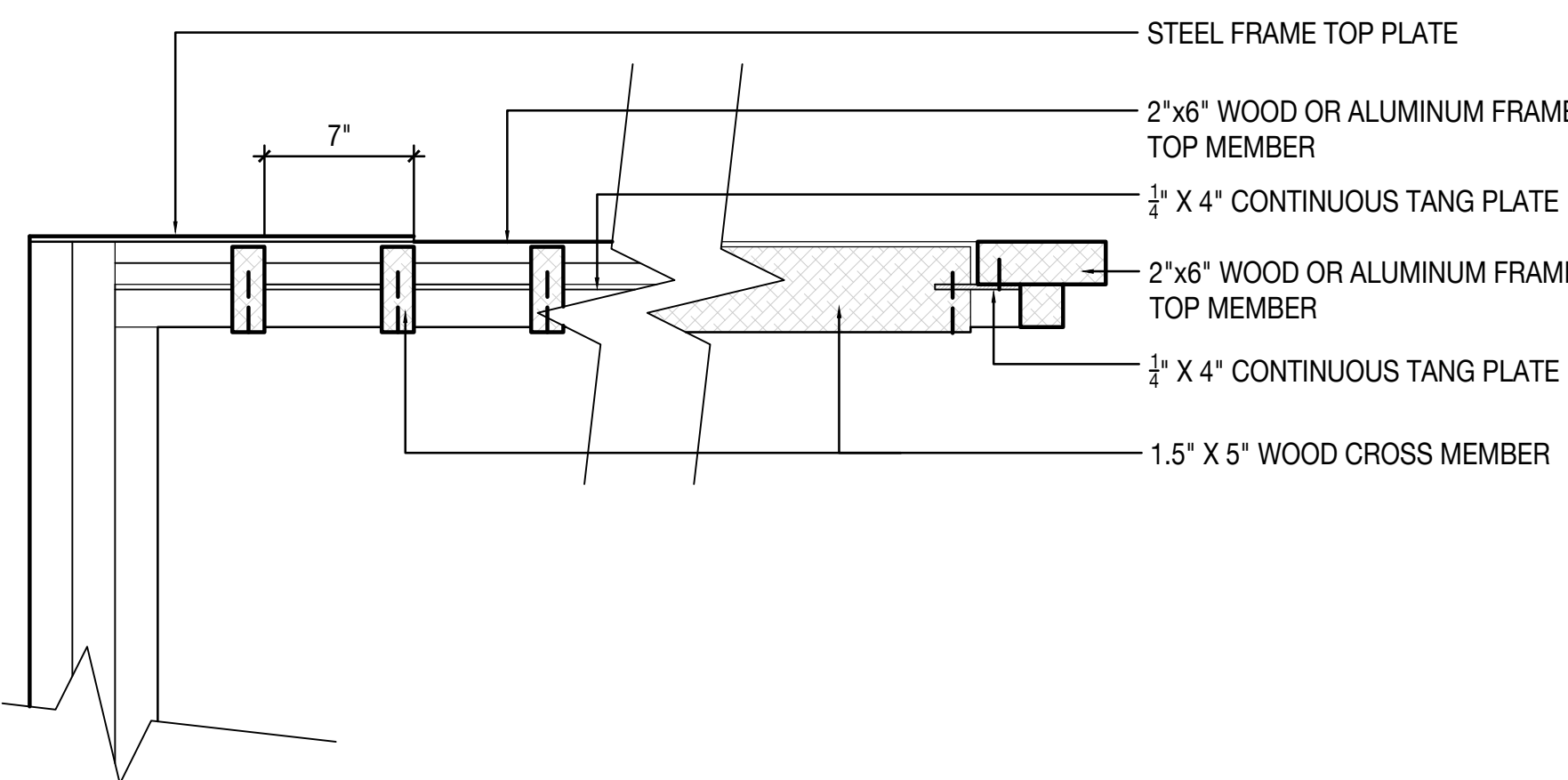


MANUAL CRANK AWNING CONTROL
 MANUAL SLIDE SIDE CURTAINS
 CABANAS ARE TO BE DEMOUNTED DURING SEVERE WEATHER

1 CABANA (TYP) Scale: 1" = 1'- 0"



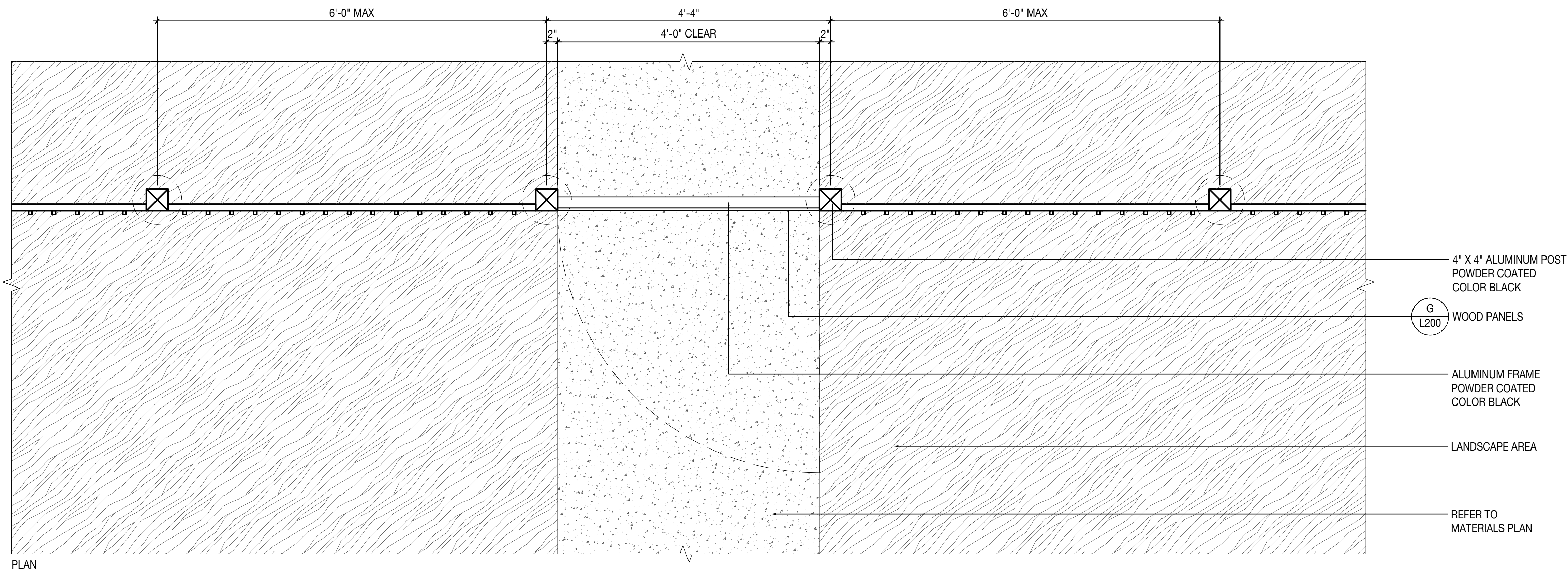
2 CABANA DETAIL- AWNING Scale: 1-1/2" = 1'- 0"



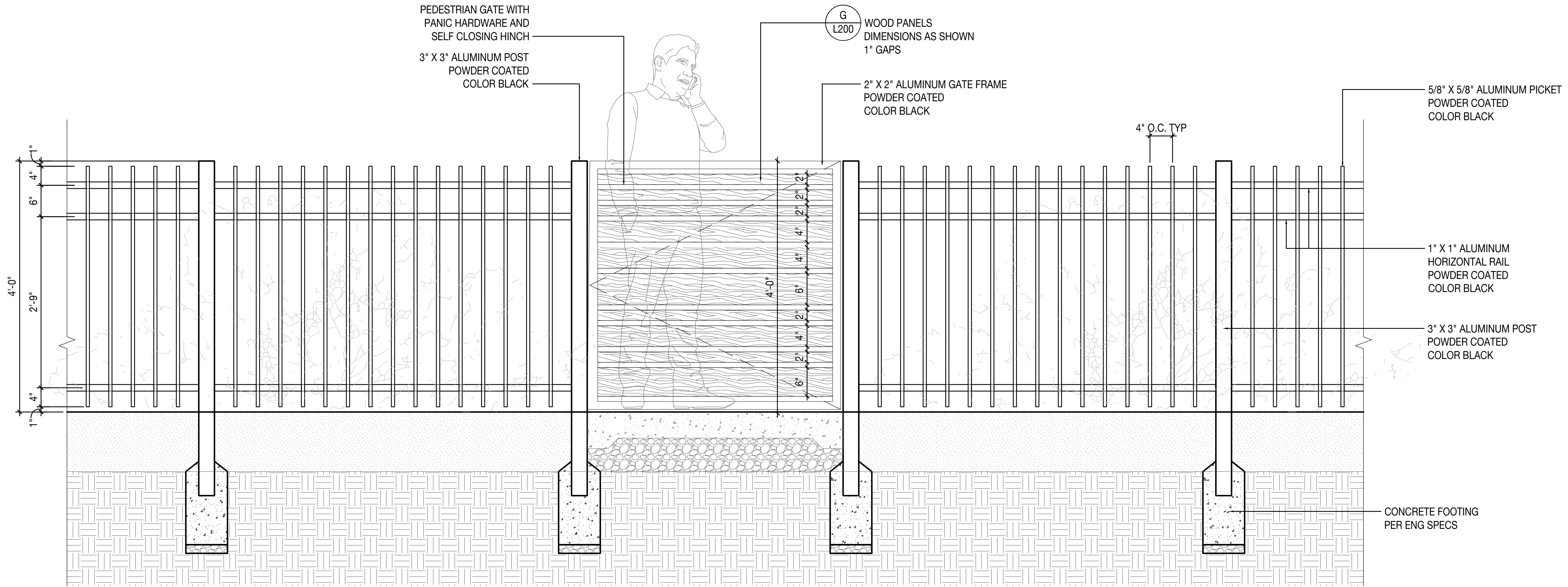
3 CABANA DETAIL- FIXED ARBOR OPTION Scale: 1-1/2" = 1'- 0"

DETAILS	
DATE	ISSUE
06/01/2021	PERMIT SET

SCALE AS NOTED:



PLAN



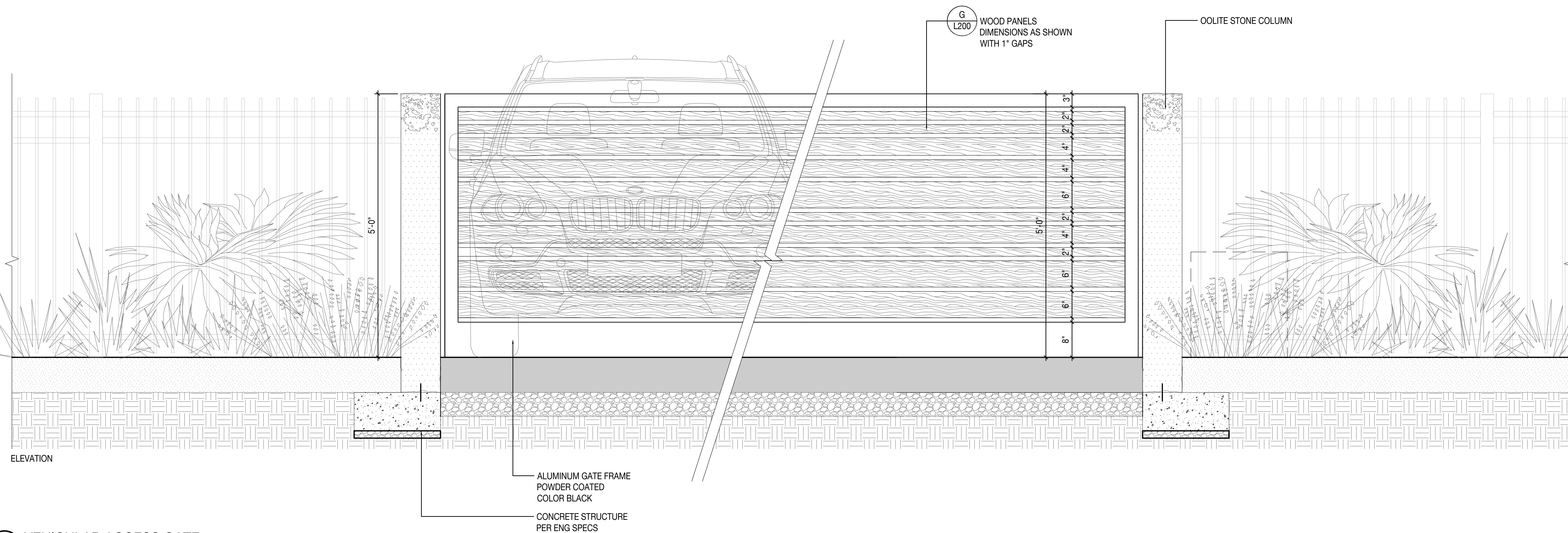
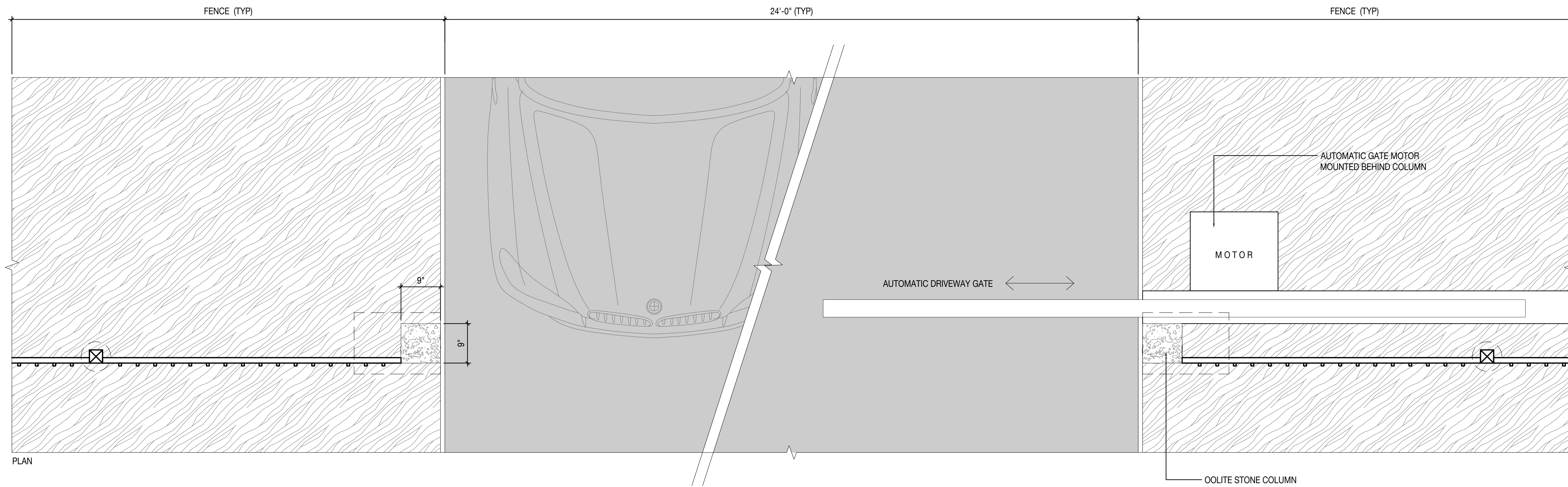
ELEVATION

1 POOL FENCE AND GATE

Scale: 1" = 1'-0"

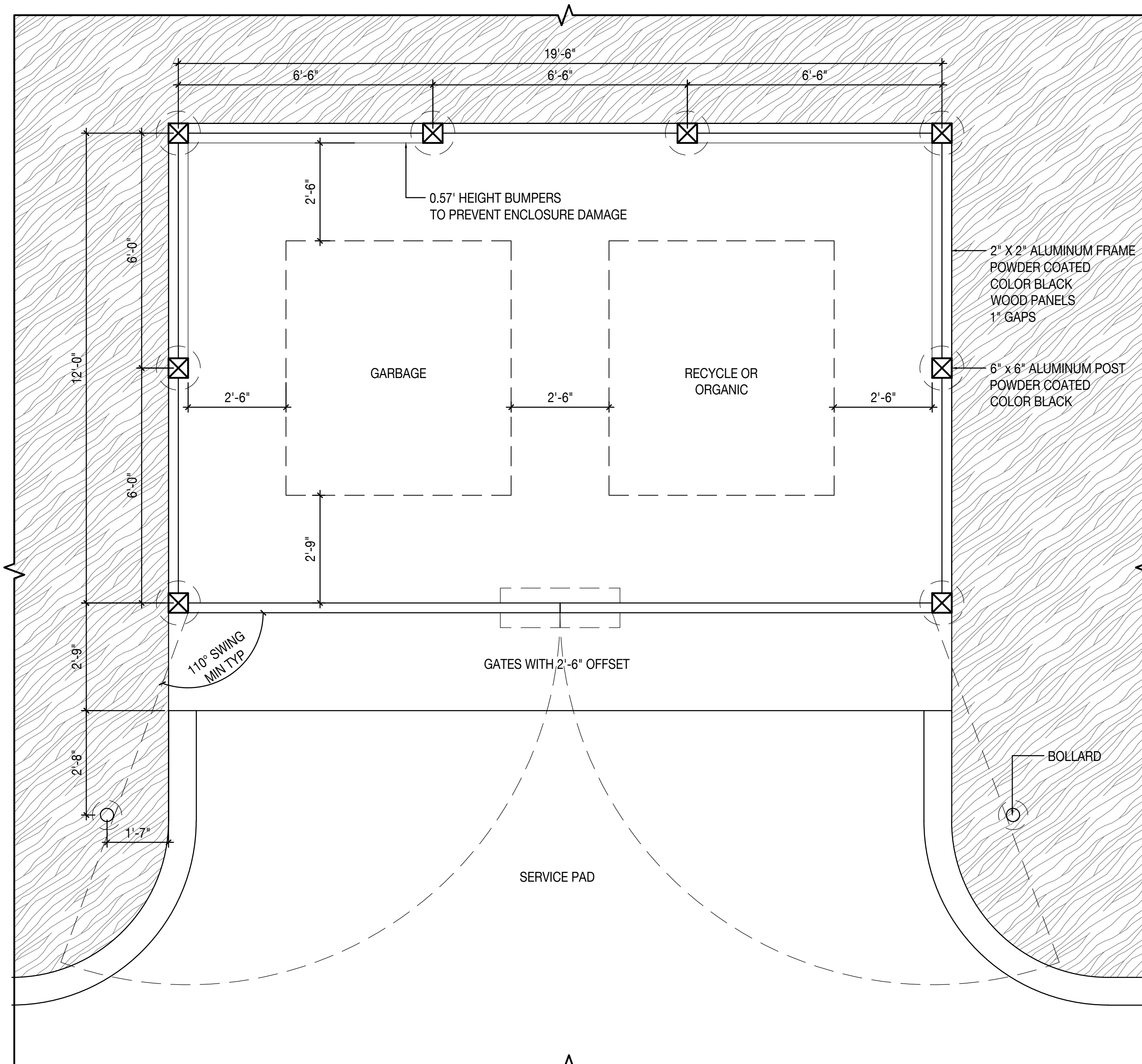
SCALE AS NOTED:

L706

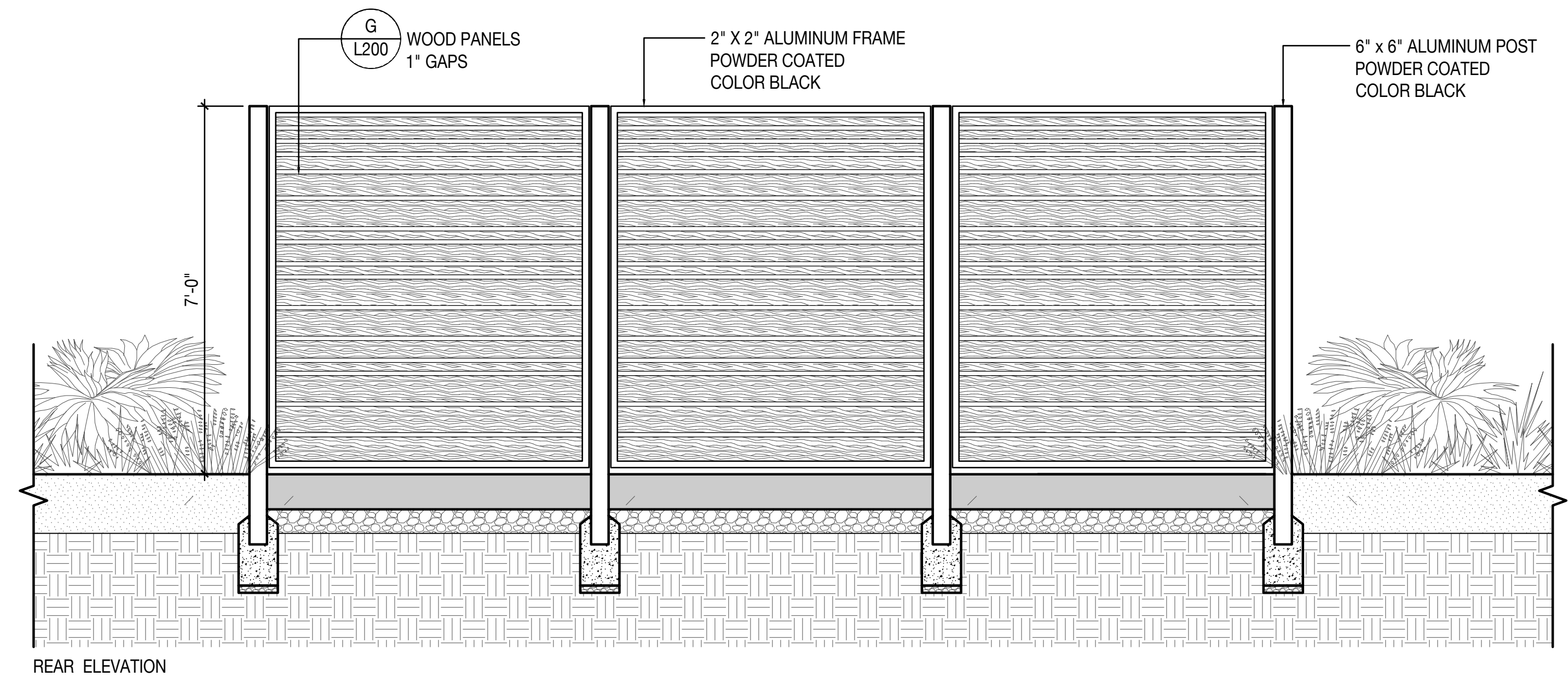


1 VEHICULAR ACCESS GATE

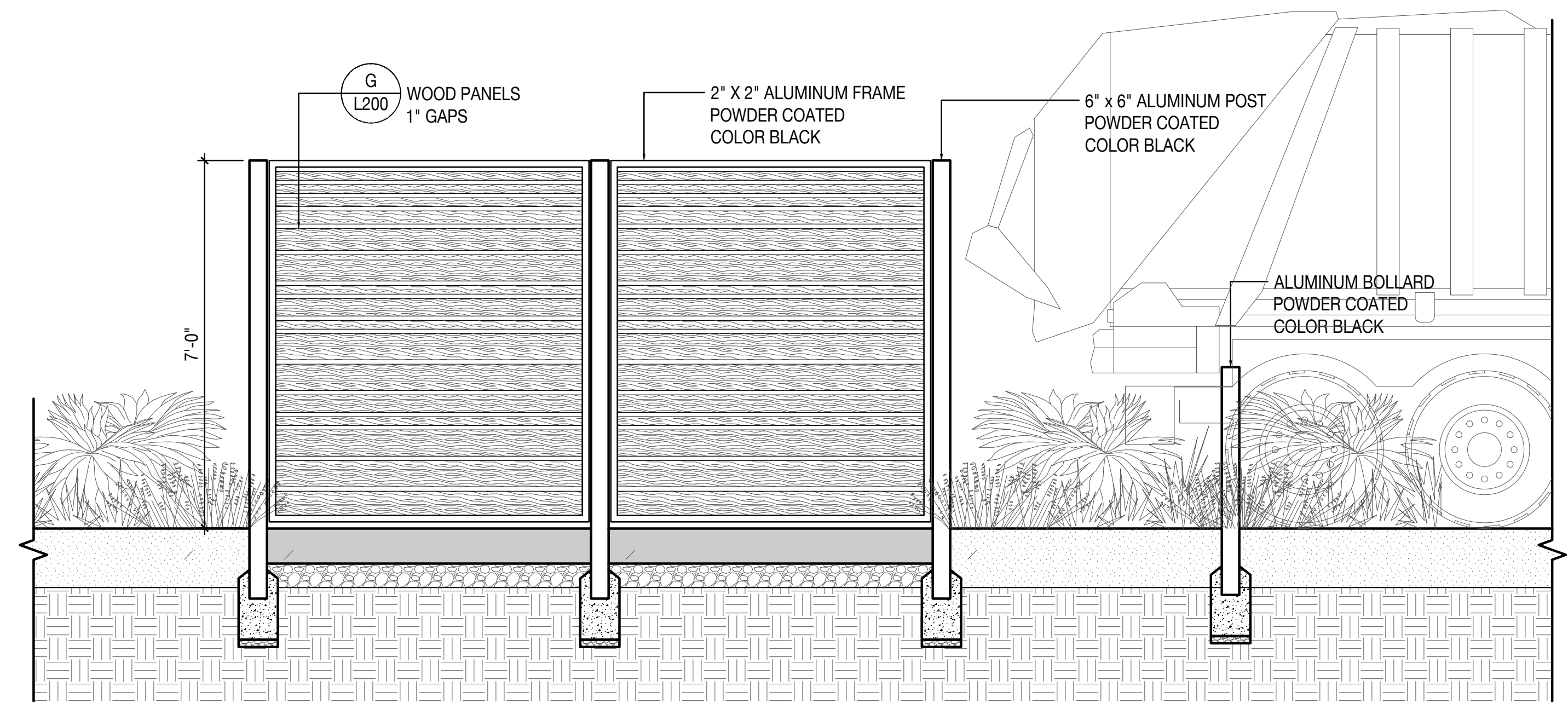
Scale: 1" = 1'- 0"



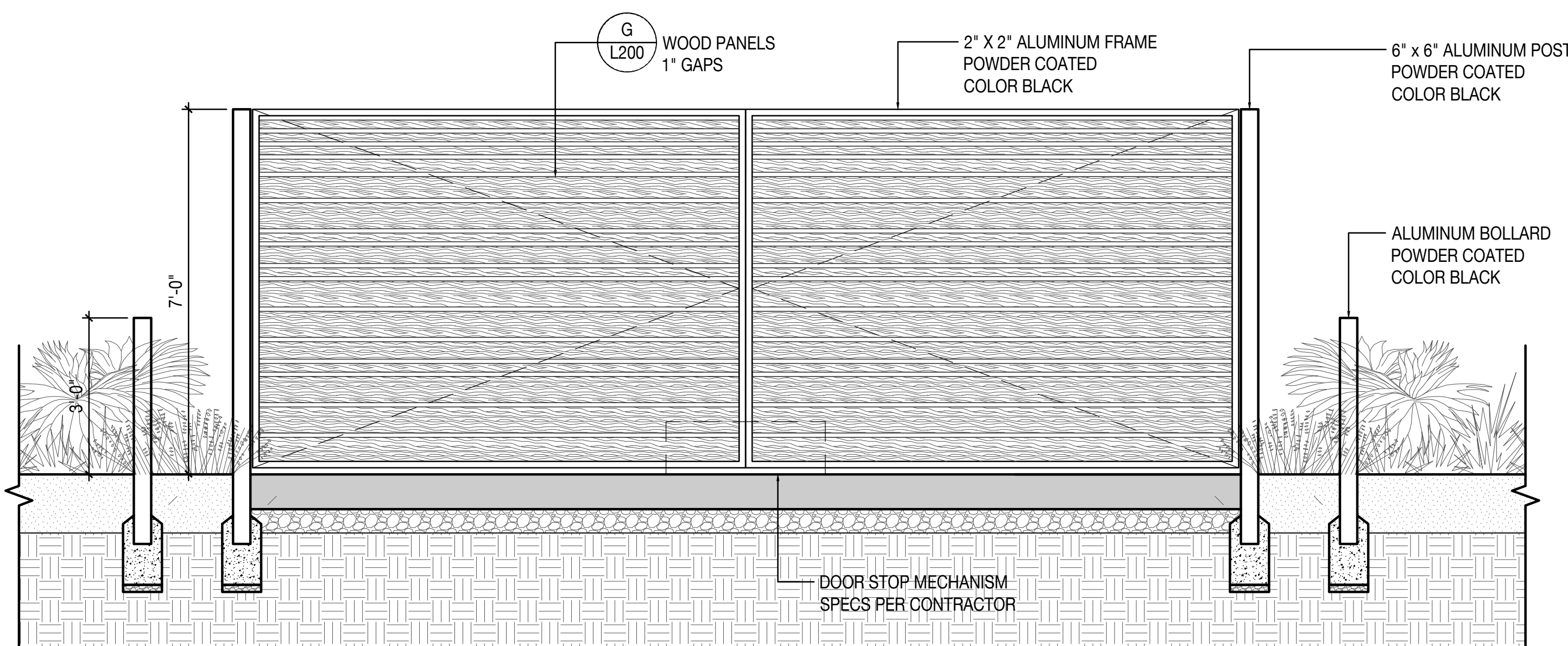
PLAN



REAR ELEVATION



SIDE ELEVATION (TYP)



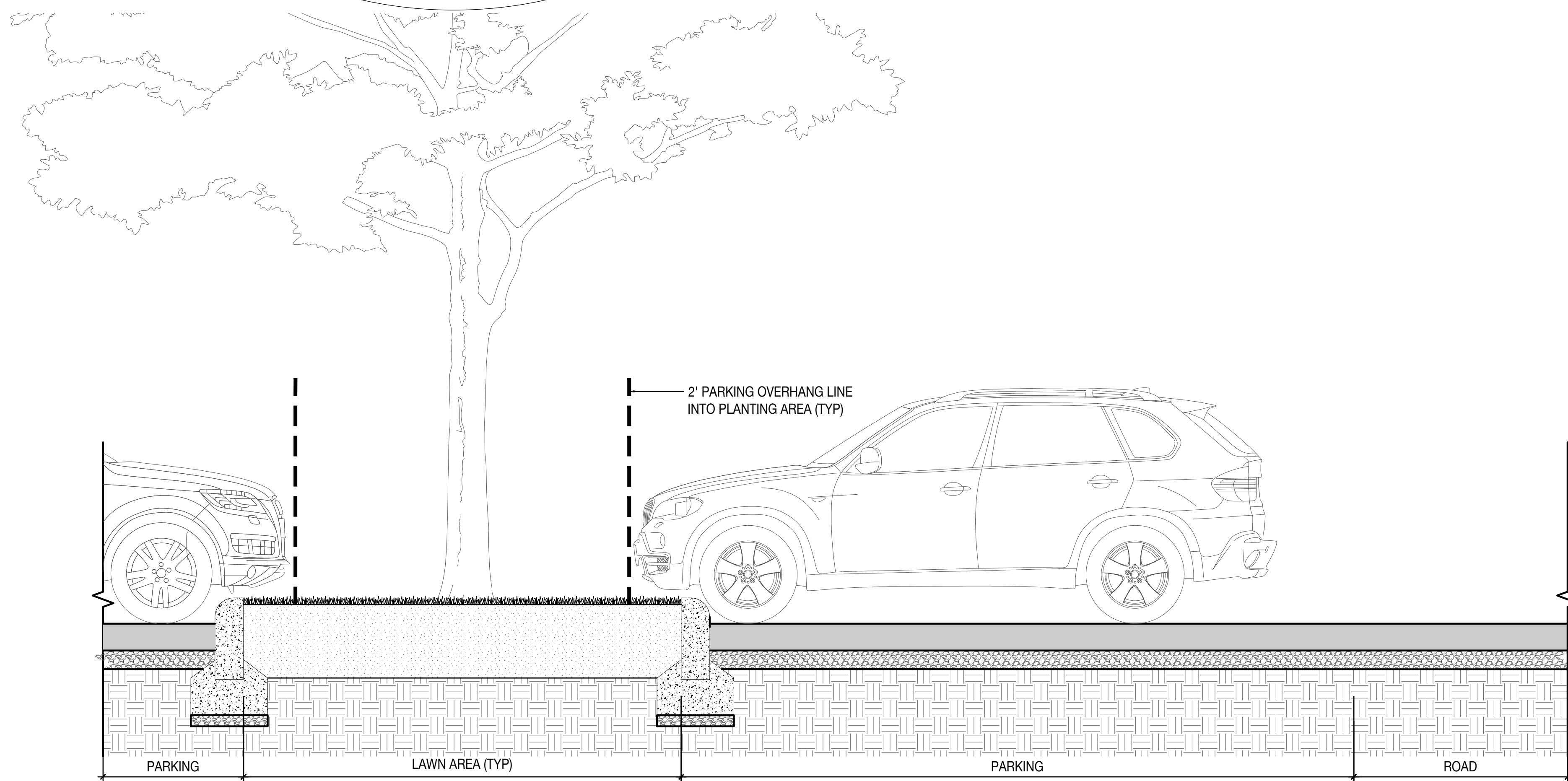
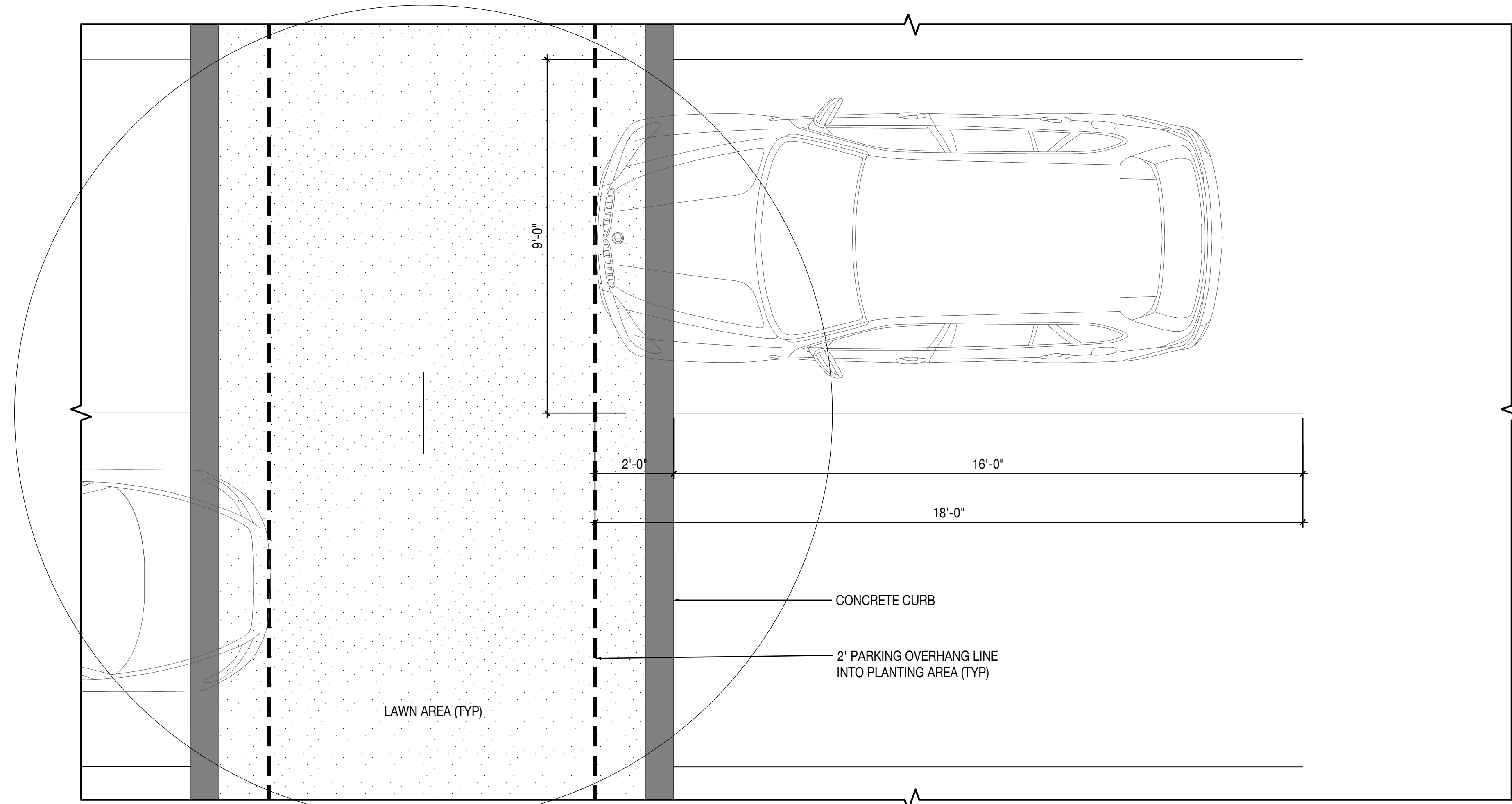
FRONTAL ELEVATION

DETAILS	
DATE	ISSUE
06/01/2021	PERMIT SET

DETAILS	
DATE	ISSUE
06/01/2021	PERMIT SET

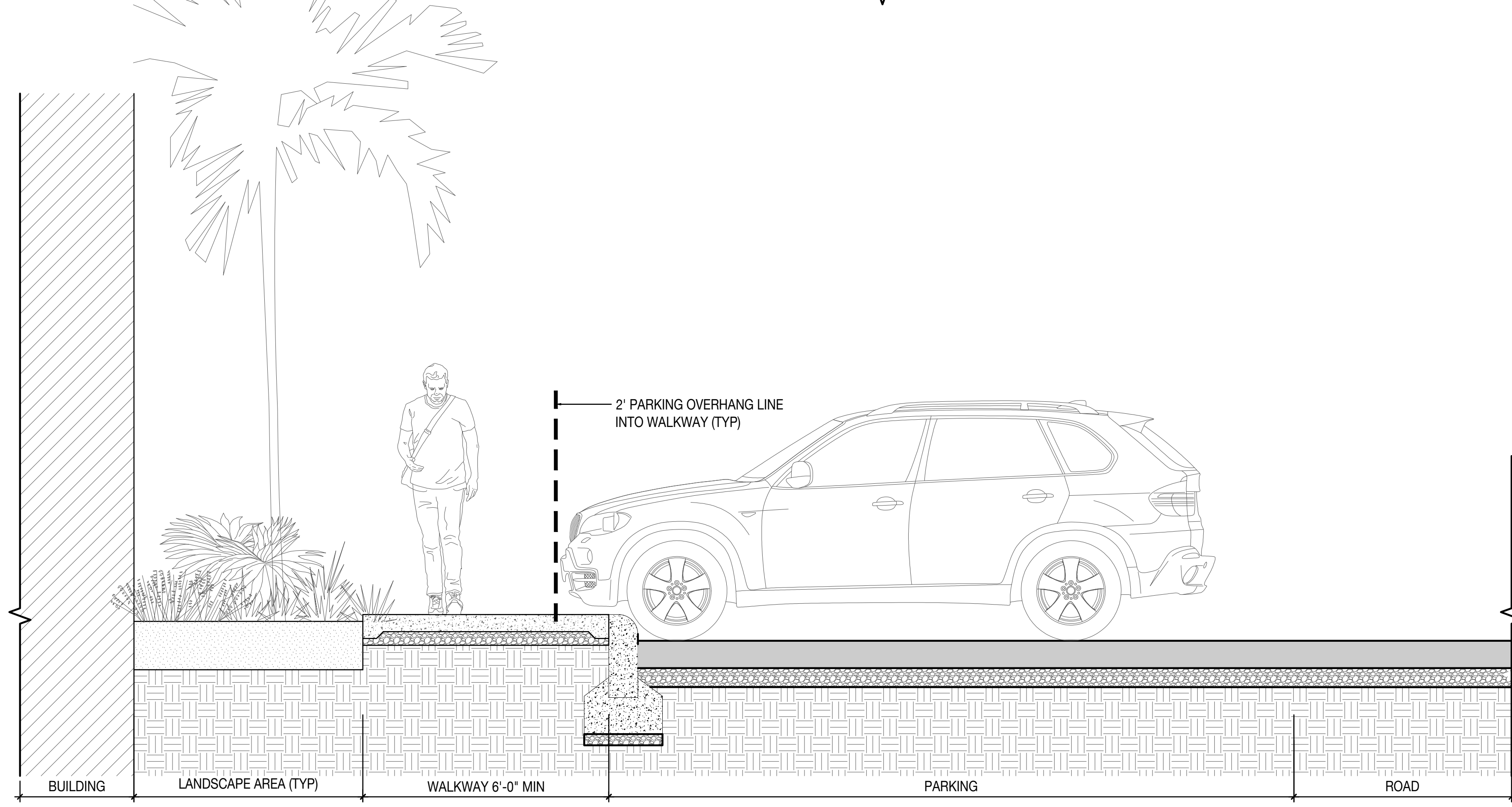
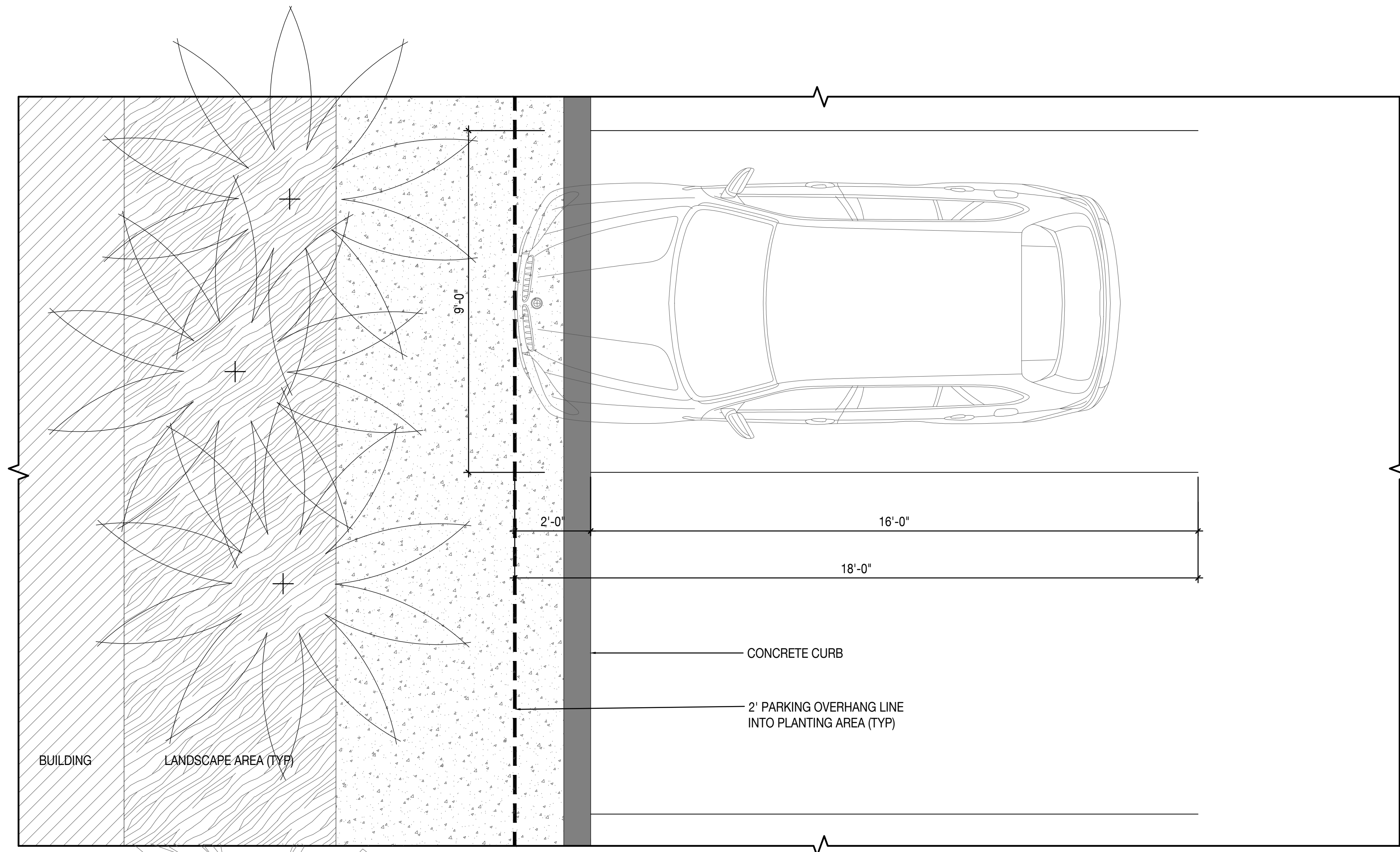
SCALE AS NOTED:

L710



1 PARKING OVERHANG TYPE 1 (TYP)

Scale: 1/2" = 1'- 0"



1 PARKING OVERHANG TYPE 2 (TYP)

Scale: 1/2" = 1'- 0"

DETAILS	
DATE	ISSUE
06/01/2021	PERMIT SET

SCALE AS NOTED:

L711



Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

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No.	Revision/Issue	Date
8	PHOTOMETRIC STUDY	05/19/21
7	PHOTOMETRIC STUDY	11/12/20
6	PHOTOMETRIC STUDY	10/07/20
5	BACKGROUND UPDATE	08/28/20
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3	BACKGROUND UPDATE	06/30/20
2	PHOTOMETRIC STUDY	06/23/20
1	PHOTOMETRIC STUDY	03/09/20

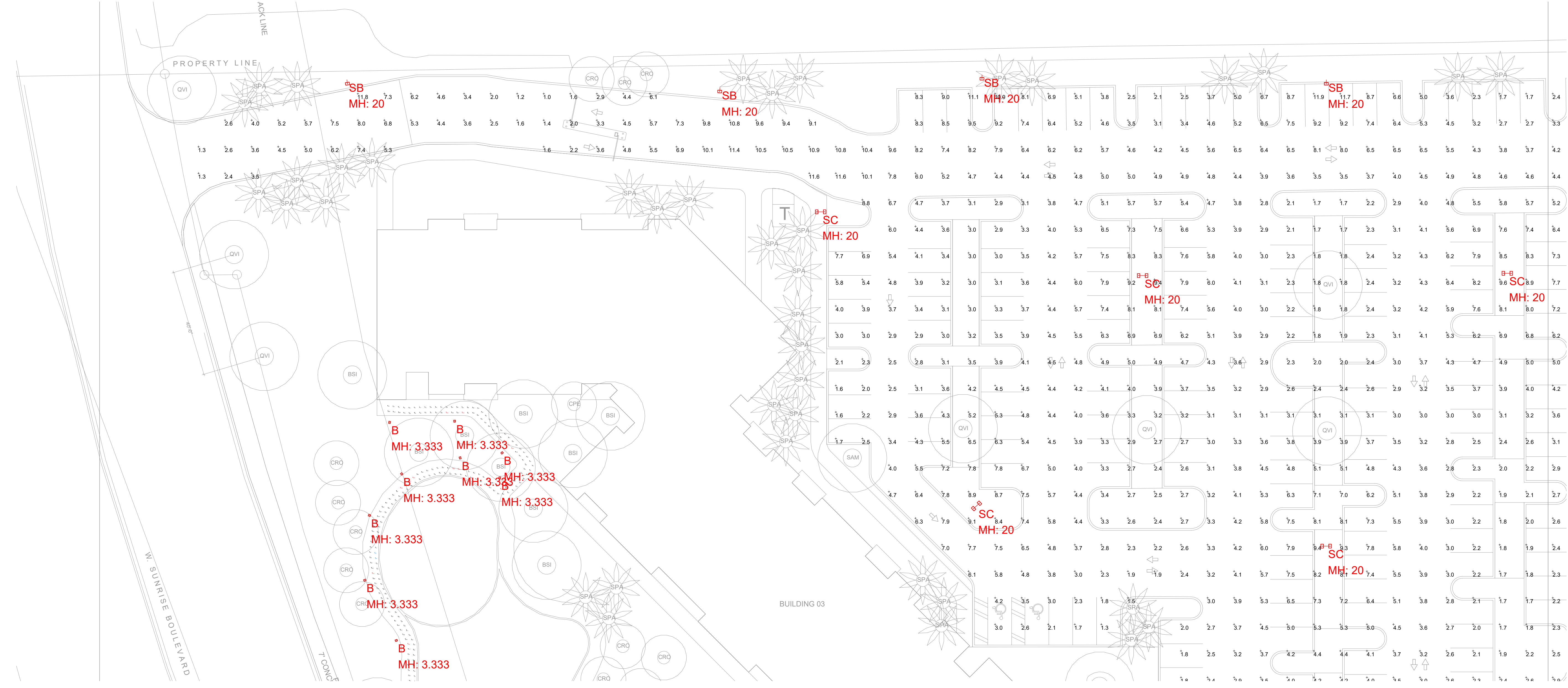
LIGHTING DYNAMICS, INC.
 7835 West Commercial Blvd.
 Tamarac, FL 33351
 (954) 944-0286
 www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
 8601 W. Sunrise Blvd.
 Plantation FL, 33313
 PARKING SITE - Section 1

FILE: P:\PROJECTS\2020\MAR\
 CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
 Date: 06/01/2021
 Scale: 1/20" = 1'-0"

Sheet: **L800.1**
 DRAWN BY: AB / RH / SR / EC



ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
SA		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-17FF-0M-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SB		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-SL3-QM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SC		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	(2) GLNA-AF-06-LED-E1-8WG-QM-QM	LED 3000K	UNV	2 X 333	ON POLE	0-10V DIMMING
BS1		LANDSCAPE PATH LIGHTING	GRAPHITE METALLIC	LOGAN	UL23WLED-T3-W03-04-1202TV	LED 3000K	UNV	20	SURFACE	0-10V DIMMING
XL1		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-02-0-M-ND-HS	LED 3000K	UNV	9	ON STAKE	NON DIMMABLE
XL2		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-01-0-M-ND-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL3		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-02-0-M-ND-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL4		UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1182-03-04-04-0-M-AX-PC1-	LED 3000K	UNV	10	ON STAKE	NOTE #1 0-10V DIMMING
XL5		ALUMINUM POLE		VALMONT	R-1008400974-P2-FRSH	NA	NA	20' POLE	20' ROUND TAPERED ALUMINUM POST AND/OR Base	

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT LEDIA KARAJ 786-801-7622 LKARAJ@LIGHTINGDYNAMICS.COM
- SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT
- THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE, SIZE LIMITATIONS, AND IS DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ANY ALTERNATIVE SELECTIONS MUST SUBMIT THE FOLLOWING TO THE ARCHITECT FOR APPROVAL FIFTEEN (15) DAYS PRIOR TO BID DATE.
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- ALL LUMINAIRES SHALL BEAR THE UL LISTING NUMBERS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY

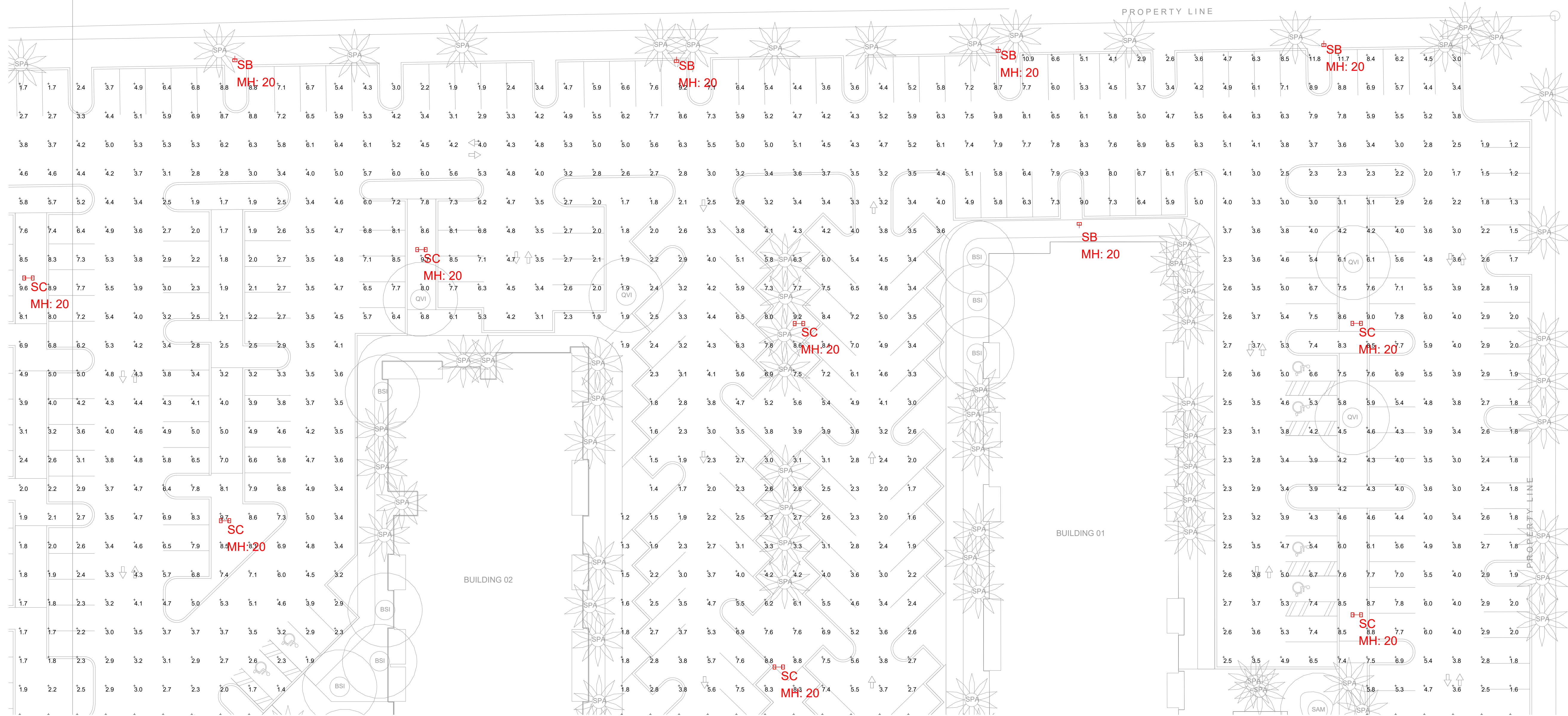


Photometrics Calculation Software Generated Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	52	B	SINGLE	2203	2203	0.900	29.1	29.1
	6	SA	SINGLE	29129	29129	0.900	333	333
	15	SB	SINGLE	28955	28955	0.900	333	333
	19	SC	BACK-BACK	30496	60992	0.900	333	666

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LAKE PATH	Illuminance	Fc	5.55	29.7	0.8	6.94	37.13
POOL PATH 1	Illuminance	Fc	5.49	27.1	0.8	6.86	33.88
POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90



Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

NOTES:

No.	Revision/Issue	Date
8	PHOTOMETRIC STUDY	05/19/21
7	PHOTOMETRIC STUDY	11/12/20
6	PHOTOMETRIC STUDY	10/07/20
5	BACKGROUND UPDATE	08/28/20
4	BACKGROUND UPDATE	08/21/20
3	BACKGROUND UPDATE	06/30/20
2	PHOTOMETRIC STUDY	06/23/20
1	PHOTOMETRIC STUDY	03/09/20

ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
1A	[Image]	SITE LIGHTING	GRAPHITE METALLIC	McGrave Edison	GLNA-AF-06-LED-E1-14FT-GM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
1B	[Image]	SITE LIGHTING	GRAPHITE METALLIC	McGrave Edison	GLNA-AF-06-LED-E1-SL-3CM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
1C	[Image]	SITE LIGHTING	GRAPHITE METALLIC	McGrave Edison	(2) GLNA-AF-06-LED-E1-4WD-GM-QM	LED 3000K	UNV	2 X 333	ON POLE	0-10V DIMMING
1E1	[Image]	LANDSCAPE PATH LIGHTING	GRAPHITE METALLIC	LUMINA	UL1-20W-LED-T3-W30-04-12027V	LED 3000K	UNV	29	SURFACE	0-10V DIMMING
XL1	[Image]	LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-0MWF-30-3M-ND-HS	LED 3000K	UNV	9	ON STAKE	NON DIMMABLE
XL2	[Image]	LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-0MWF-30-0M-ND-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL3	[Image]	LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-0MWF-30-0M-ND-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL4	[Image]	UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1182-53-8AMP-30-3M-A.X.PCT.	LED 3000K	UNV	10	ON STAKE	NOTE #1 0-10V Dimming
XL5	[Image]	ALUMINUM POLE		VALMONT	R-100400214-F2-FINISH	NA	NA	29' POLE		29' ROUND TAPERED ALUMINUM Pole and Anchor Base

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT LEDIA KARAJ 786-801-7622 LKARAJ@LIGHTINGDYNAMICS.COM
- SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT
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- ALL LUMINAIRES SHALL BEAR THE UL LISTING NUMBERS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY



Photometrics Calculation Software Generated Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
[Symbol]	52	B	SINGLE	2203	2203	0.900	29.1	29.1
[Symbol]	6	SA	SINGLE	29129	29129	0.900	333	333
[Symbol]	15	SB	SINGLE	28955	28955	0.900	333	333
[Symbol]	19	SC	BACK-BACK	30496	60992	0.900	333	666

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LAKE PATH	Illuminance	Fc	5.55	29.7	0.8	6.94	37.13
POOL PATH 1	Illuminance	Fc	5.49	27.1	0.8	6.86	33.88
POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90

LIGHTING DYNAMICS, INC.
 7835 West Commercial Blvd.
 Tamarac, FL 33351
 (954) 944-0286
 www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
 8601 W. Sunrise Blvd.
 Plantation FL, 33313
 PARKING SITE - Section 2

FILE: P:\PROJECTS\2020\MAR1
 CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
 Date: 06/01/2021
 Scale: 1/20" = 1'-0"

Sheet: **L800.2**
 DRAWN BY: AB / RH / SR / EC



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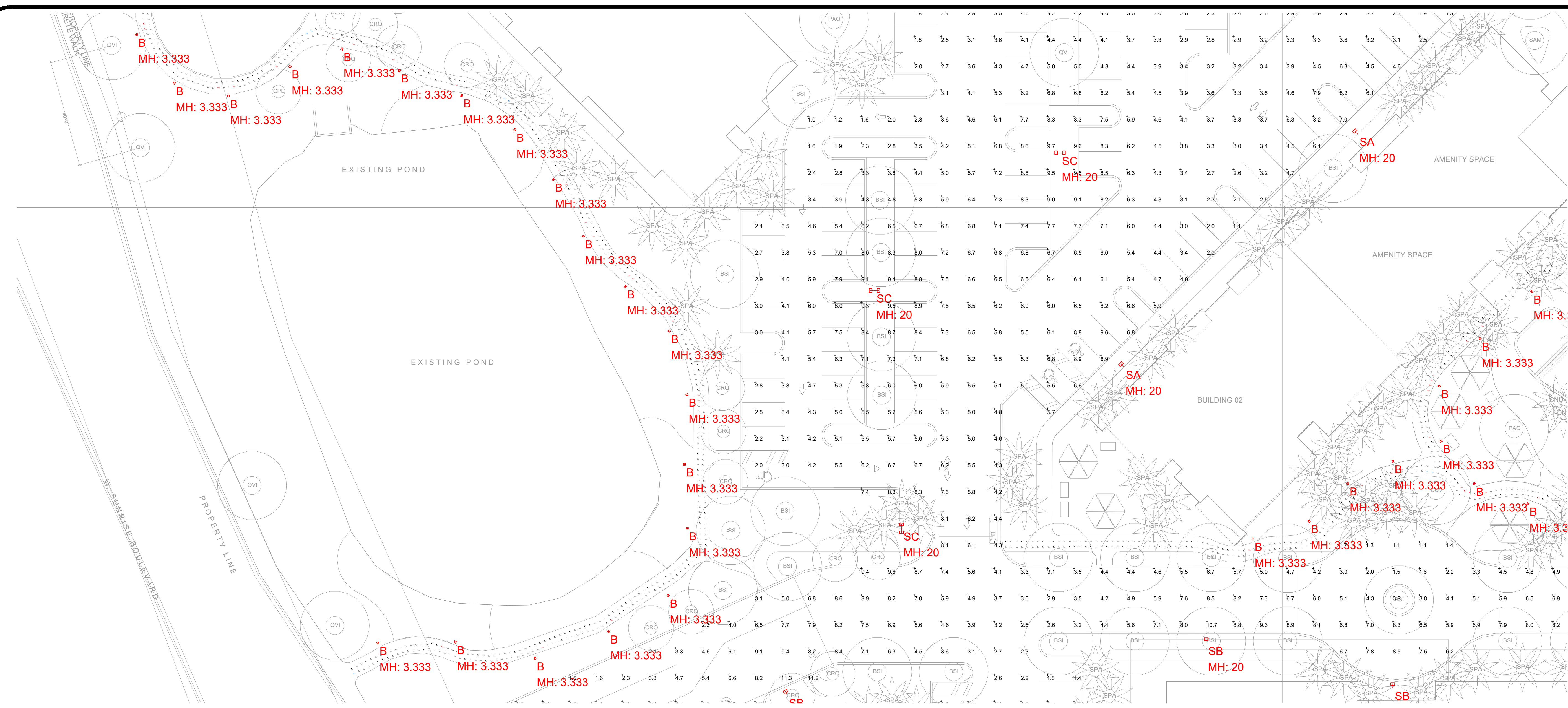
NOTES:

8	PHOTOMETRIC STUDY	05/19/21
7	PHOTOMETRIC STUDY	11/12/20
6	PHOTOMETRIC STUDY	10/07/20
5	BACKGROUND UPDATE	08/28/20
4	BACKGROUND UPDATE	08/21/20
3	BACKGROUND UPDATE	06/30/20
2	PHOTOMETRIC STUDY	06/23/20
1	PHOTOMETRIC STUDY	03/09/20
No.	Revision/Issue	Date

LIGHTING DYNAMICS, INC.
 7835 West Commercial Blvd.
 Tamarac, FL 33351
 (954) 944-0286
 www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
 8601 W. Sunrise Blvd.
 Plantation FL, 33313
 PARKING SITE - Section 3
 FILE: P:\PROJECTS\2020\MAR\ CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
 Date: 06/01/2021
 Scale: 1/20" = 1'-0"
 Sheet: **L800.3**
 DRAWN BY: AB / RH / SR / EC



ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

INTERIOR LIGHTING FIXTURE SCHEDULE-- PLEASE CLICK AT THE PICTURE YOU WILL HAVE HYPERLINKED THE SPEC SHEETS--

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
SA		SITE LIGHTING	GRAPHITE METALLIC	Midgray-Edison	OLNA-AP-06-LED-E1-147F-GM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SB		SITE LIGHTING	GRAPHITE METALLIC	Midgray-Edison	OLNA-AP-06-LED-E1-SL3-GM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SC		SITE LIGHTING	GRAPHITE METALLIC	Midgray-Edison	(2) OLNA-AP-06-LED-E1-0WG-GM-QM	LED 3000K	UNV	2 X 333	ON POLE	0-10V DIMMING
SB1		LANDSCAPE PATH LIGHTING	GRAPHITE METALLIC	LIOMAN	UL22WLED-TS-W0564-12027V	LED 3000K	UNV	29	SURFACE	0-10V DIMMING
XL1		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-WF-30-D-8M-40-H-S	LED 3000K	UNV	9	ON STAKE	NON DIMMABLE
XL2		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-WF-30-D-8M-40-H-S	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL3		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-WF-30-D-8M-40-H-S	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL4		UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1182-SB-WF-30-A-6M-4X-PCT-	LED 3000K	UNV	19	ON STAKE	NOTE #1 0-10V Dimming
XL5		ALUMINUM POLE	VALMONT	R-1008400074-F3-FRESH	N/A	N/A	N/A	20' POLE	20' ROUND TAPERED ALUMINUM 4" DIA. 1" THICK Base	

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT LEDIA KARAJ 786-801-7022 LKARA@LIGHTINGDYNAMICS.COM
- SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT
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Photometrics Calculation Software Generated Luminaire Schedule

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	6	SA	SINGLE	29129	29129	0.900	333	333
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Calculation Summary

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LAKE PATH	Illuminance	Fc	5.55	29.7	0.8	6.94	37.13
POOL PATH 1	Illuminance	Fc	5.49	27.1	0.8	6.86	33.88
POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90



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NOTES:

No.	Revision/Issue	Date
8	PHOTOMETRIC STUDY	05/19/21
7	PHOTOMETRIC STUDY	11/12/20
6	PHOTOMETRIC STUDY	10/07/20
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4	BACKGROUND UPDATE	08/21/20
3	BACKGROUND UPDATE	06/30/20
2	PHOTOMETRIC STUDY	06/23/20
1	PHOTOMETRIC STUDY	03/09/20

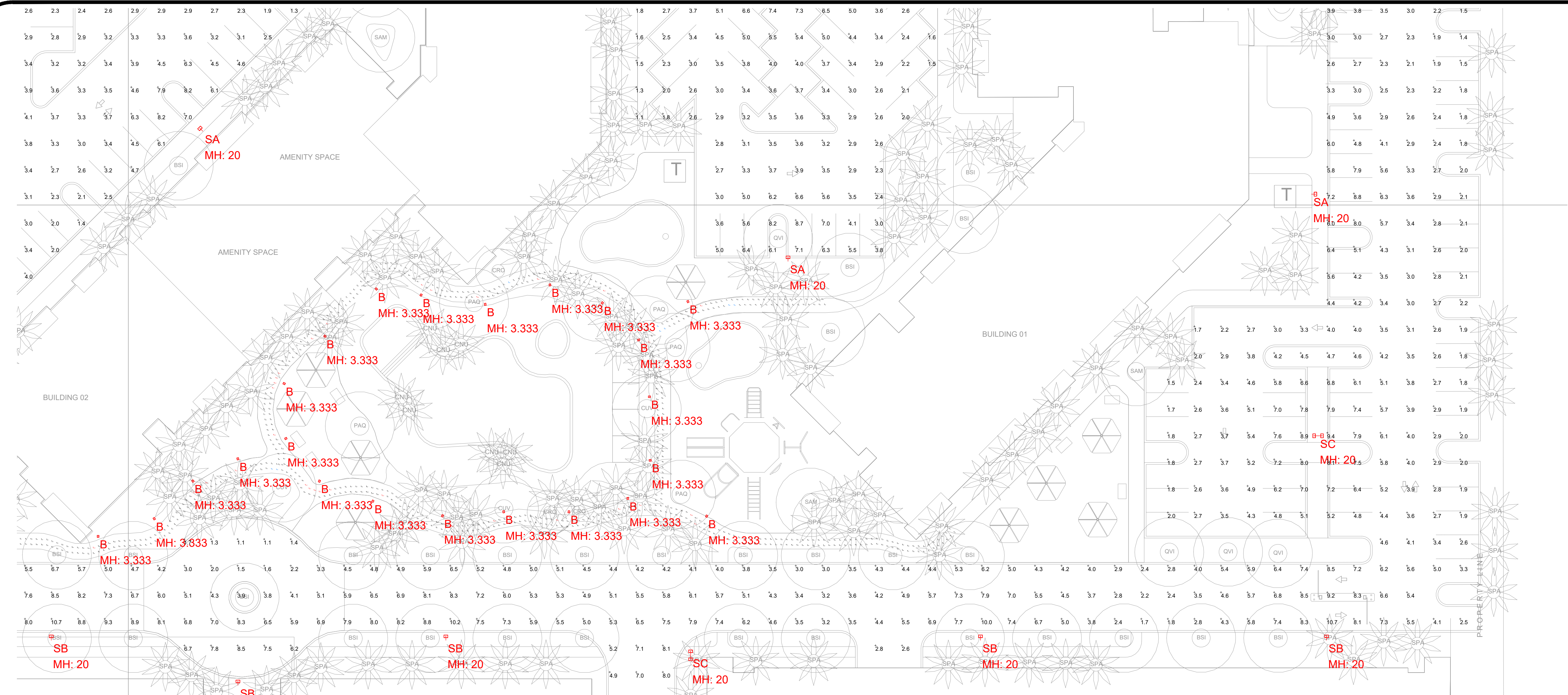
LIGHTING DYNAMICS, INC.
 7835 West Commercial Blvd.
 Tamarac, FL 33351
 (954) 944-0286
www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
 8601 W. Sunrise Blvd.
 Plantation FL, 33313
 PARKING SITE - Section 4

FILE: P:\PROJECTS\2020\MAR\1
 CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
 Date: 06/01/2021
 Scale: 1/20" = 1'-0"

Sheet: **L800.4**
 DRAWN BY: AB / RH / SR / EC



ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

INTERIOR LIGHTING FIXTURE SCHEDULE-- PLEASE CLICK AT THE PICTURE OF THE FIXTURE YOU WILL HAVE HYPERLINKED THE SPEC SHEETS --

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR.	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
SA		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-TAPP-QM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SB		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-S3-QM-QM	LED 3000K	UNV	333	ON POLE	0-10V DIMMING
SC		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	(2) GLNA-AF-06-LED-E1-SWG-QM-QM	LED 3000K	UNV	2 X 333	ON POLE	0-10V DIMMING
BS1		LANDSCAPE PATHLIGHTING	GRAPHITE METALLIC	LUMIAN	ULS3WLED-T3-W03-D4-12027V	LED 3000K	UNV	29	SURFACE	0-10V DIMMING
XL1		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-20-D-MH-HS	LED 3000K	UNV	9	ON STAKE	NON DIMMABLE
XL2		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-20-D-MH-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL3		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QM-MF-20-D-MH-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL4		UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1182-45-S-MF-20-A-MX-PC1	LED 3000K	UNV	10	ON STAKE	NOTE #1 ELY Dimming
XL5		ALUMINUM POLE		VALMONT	R-1004000174-P2-FRSH	NA	NA	27' POLE	20' ROUND TAPERED ALUMINUM ADJUSTABLE Pole	

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT LEDIA KARAJ 786-401-7622 LKARAJ@LIGHTINGDYNAMICS.COM
- SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT
- THE ABOVE FIXTURE SCHEDULE IS PREDICATED ON PERFORMANCE, SIZE LIMITATIONS, AND IS DESIGNED TO MEET CERTAIN AESTHETIC CRITERIA. ANY ALTERNATIVE SELECTIONS MUST SUBMIT THE FOLLOWING TO THE ARCHITECT FOR APPROVAL FIFTEEN (15) DAYS PRIOR TO BID DATE...
- IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LUMINAIRES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED IN THE LUMINAIRE CATALOG.
- ALL LUMINAIRES SHALL BEAR THE UL LISTING NUMBERS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY

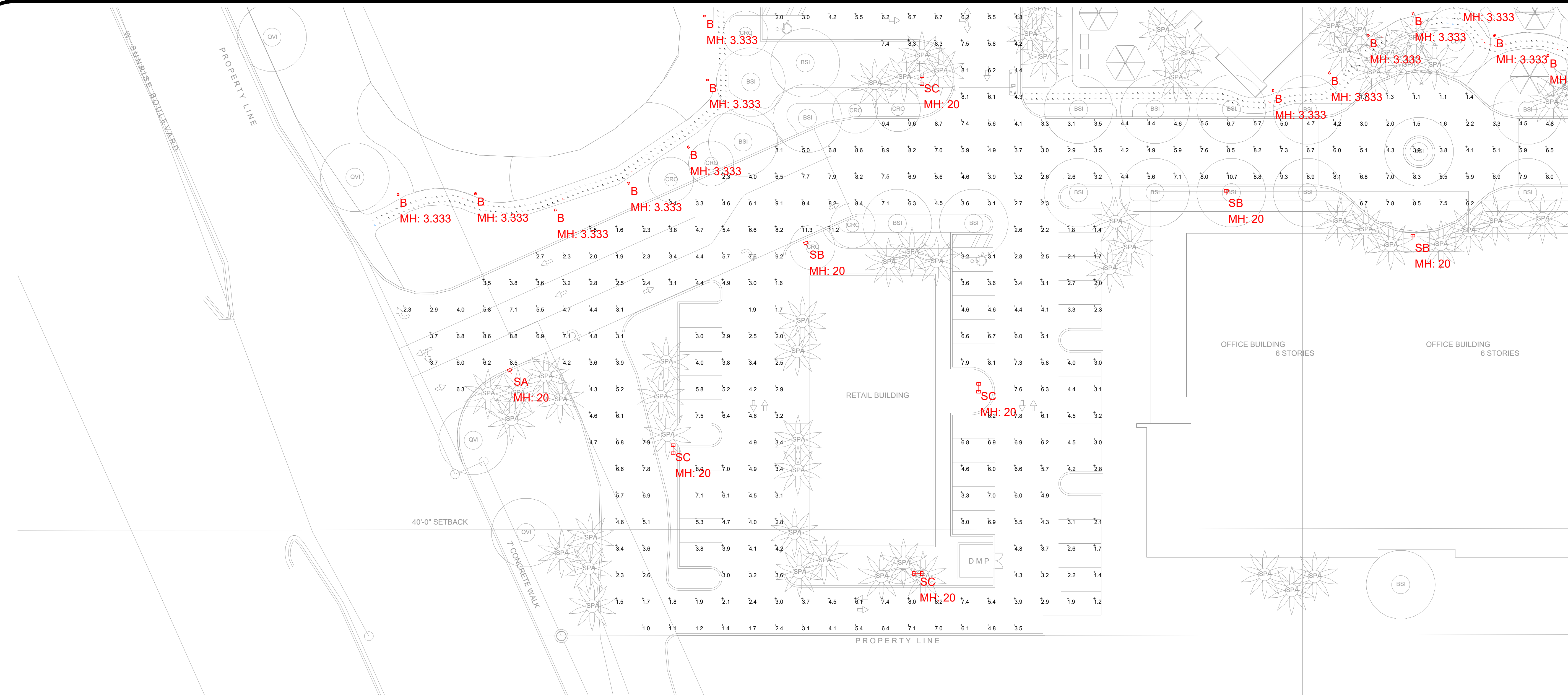


Photometrics Calculation Software Generated Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	52	B	SINGLE	2203	2203	0.900	29.1	29.1
	6	SA	SINGLE	29129	29129	0.900	333	333
	15	SB	SINGLE	28955	28955	0.900	333	333
	19	SC	BACK-BACK	30496	60992	0.900	333	666

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LAKE PATH	Illuminance	Fc	5.55	29.7	0.8	6.94	37.13
POOL PATH 1	Illuminance	Fc	5.49	27.1	0.8	6.86	33.88
POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90



Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

NOTES:

No.	Revision/Issue	Date
8	PHOTOMETRIC STUDY	05/19/21
7	PHOTOMETRIC STUDY	11/12/20
6	PHOTOMETRIC STUDY	10/07/20
5	BACKGROUND UPDATE	08/28/20
4	BACKGROUND UPDATE	08/21/20
3	BACKGROUND UPDATE	06/30/20
2	PHOTOMETRIC STUDY	06/23/20
1	PHOTOMETRIC STUDY	03/09/20

ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
1A		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-TFT-QM-QM	LED 3000K	UNV	303	ON POLE	0-10V DIMMING
1B		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-SL-QM-QM	LED 3000K	UNV	303	ON POLE	0-10V DIMMING
1C		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	(2) GLNA-AF-06-LED-E1-SWG-QM-QM	LED 3000K	UNV	2 X 303	ON POLE	0-10V DIMMING
81		LANDSCAPE PATH LIGHTING	GRAPHITE METALLIC	LICMAN	UL29WLED-T3-W00-04-12027V	LED 3000K	UNV	28	SURFACE	0-10V DIMMING
XL1		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QMMS-20-0-MV-HD-HS	LED 3000K	UNV	8	ON STAKE	NON DIMMABLE
XL2		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-QMMP-20-0-MV-HD-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL3		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1040-QMWP-20-0-MV-HD-HS	LED 3000K	UNV	12	ON STAKE	NON DIMMABLE
XL4		UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1182-83-B-MF-20-4-MV-AX-FCT	LED 3000K	UNV	18	ON STAKE	NOTE #1 0-10V Dimming
XL5		ALUMINUM POLE	VALMONT	R-1004020R-TA-P2-FR03H	NA	NA	NA	20' POLE	30' ROUND TAPERED ALUMINUM Pole Anchor Box	

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT: LEDIA KARAJ 786-401-7622 LKARAJ@LIGHTINGDYNAMICS.COM
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- ALL LUMINAIRES SHALL BEAR THE UL LISTING NUMBERS FROM A NATIONALLY RECOGNIZED TESTING LABORATORY



Photometrics Calculation Software Generated Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	52	B	SINGLE	2203	2203	0.900	29.1	29.1
	6	SA	SINGLE	29129	29129	0.900	333	333
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Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
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POOL PATH 1	Illuminance	Fc	5.49	27.1	0.8	6.86	33.88
POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90

LIGHTING DYNAMICS, INC.
 7835 West Commercial Blvd.
 Tamarac, FL 33351
 (954) 944-0286
 www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
 8601 W. Sunrise Blvd.
 Plantation FL, 33313
PARKING SITE - Section 5

FILE: P:\PROJECTS\2020\MAR1
 CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
 Date: 06/01/2021
 Scale: 1/20" = 1'-0"

Sheet: **L800.5**
 DRAWN BY: AB / RH / SR / EC



Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

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No.	Revision/Issue	Date
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7	PHOTOMETRIC STUDY	11/12/20
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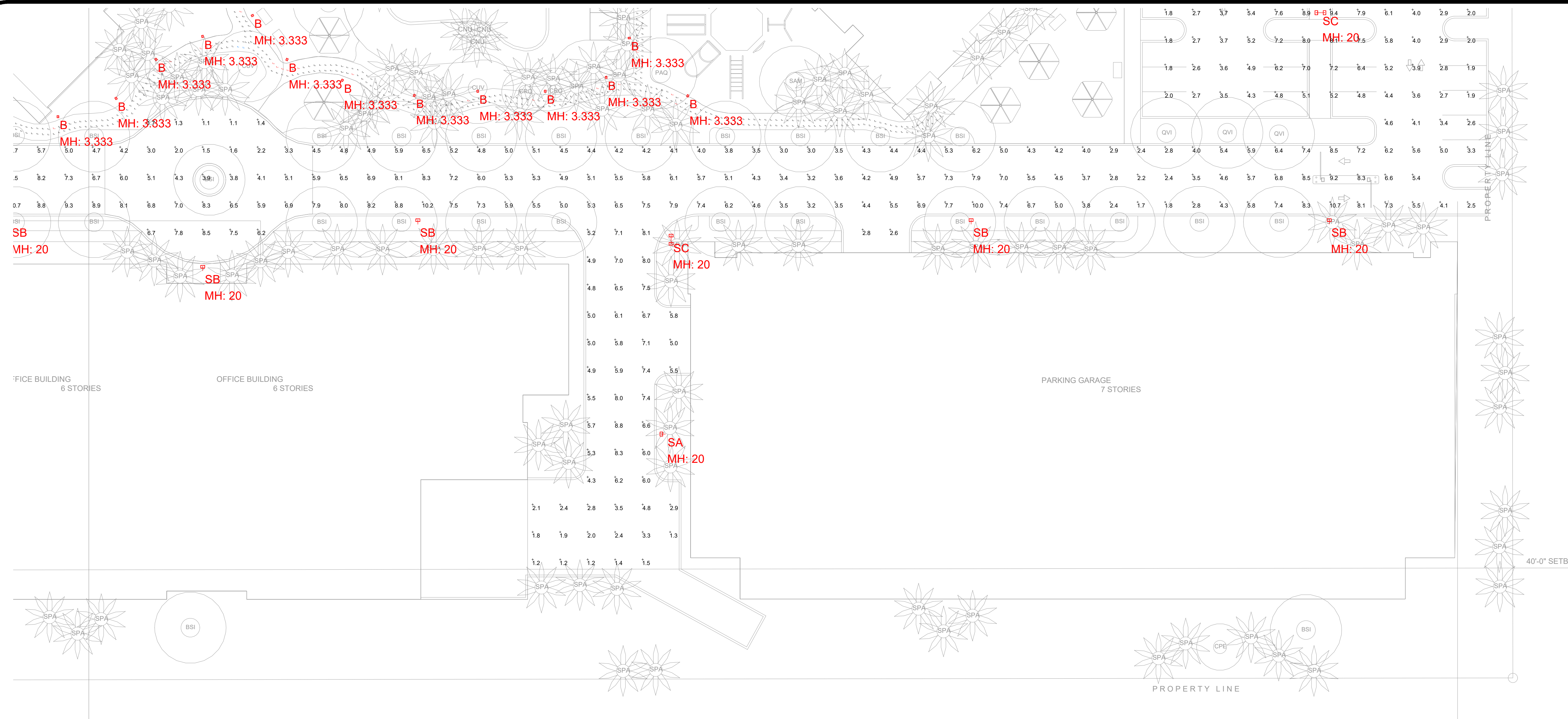
LIGHTING DYNAMICS, INC.
7835 West Commercial Blvd.
Tamarac, FL 33351
(954) 944-0286
www.lightingdynamics.com

Project Name and Address
8601 SUNRISE
8601 W. Sunrise Blvd.
Plantation FL, 33313
PARKING SITE - Section 6

FILE: P:\PROJECTS\2020\MAR1
CLIENT: CLAREN ARCHITECTURE + DESIGN, INC.

Project: 8601 SUNRISE
Date: 06/01/2021
Scale: 1/20" = 1'-0"

Sheet: **L800.6**
DRAWN BY: AB / RH / SR / EC



ATT PLANTATION -- LAND DESIGN LIGHTING SCHEDULE

INTERIOR LIGHTING FIXTURE SCHEDULE-- PLEASE CLICK AT THE PICTURE OF THE FIXTURE YOU WILL HAVE HYPERLINKED THE SPEC SHEETS **

TYPE	PICTURES/SPECS.	DESCRIPTION	FINISH	MFR	CATALOG NUMBER	LAMPS	VOLTAGE	INPUT WATTS	MOUNTING	REMARKS
1A		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-TFT-GM-QM	LED 3000K	URV	333	ON POLE	0-10V DIMMING
1B		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	GLNA-AF-04-LED-E1-SL-GM-QM	LED 3000K	URV	333	ON POLE	0-10V DIMMING
1C		SITE LIGHTING	GRAPHITE METALLIC	McGraw-Hill	(2) GLNA-AF-06-LED-E1-1WG-GM-QM	LED 3000K	URV	2 X 333	ON POLE	0-10V DIMMING
B1		LANDSCAPE PATH LIGHTING	GRAPHITE METALLIC	LIGMAN	ULI-DWLED-T3-W03-04-125027V	LED 3000K	URV	25	SURFACE	0-10V DIMMING
XL1		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-GMNF-30-D-MV-ND-HS	LED 3000K	URV	9	ON STAKE	NON DIMMABLE
XL2		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-GMNF-30-D-MV-ND-HS	LED 3000K	URV	12	ON STAKE	NON DIMMABLE
XL3		LED UP-ACCENT	GRAPHITE METALLIC	VISTA PRO	1043-GMNF-30-D-MV-ND-HS	LED 3000K	URV	12	ON STAKE	NON DIMMABLE
XL4		UPLIGHTING	GRAPHITE METALLIC	VISTA PRO	1192-SB-8MF-30-A-MV-AX-PC1	LED 3000K	URV	10	ON STAKE	NOTE #1 0-10V Dimming
XL5		ALUMINUM POLE	VALMONT	R-100400K14-F2-FRISH	NA	NA	NA	32' POLE	32' ROUND TAPERED ALUMINUM Pole Anchor Base	

LIGHTING SCHEDULE NOTES:

- CONTACT FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT: LEDIA KARAJ 784-801-7622 L.KARAJ@LIGHTINGDYNAMICS.COM
- SPECIFIC LIGHTING FIXTURES, SELECTED BY TYPE, PHOTOMETRIC PERFORMANCE, LIGHTING PATTERN, AND LUMEN OUTPUT, WERE USED IN THE ILLUMINATION DESIGN TO PRODUCE THE REQUIRED EFFECT AND ILLUMINATION. SUBSTITUTION OF THE LIGHT FIXTURES WILL RESULT IN DIFFERENT
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POOL PATH 2	Illuminance	Fc	6.30	26.2	0.8	7.88	32.75
POOL PATH 3	Illuminance	Fc	3.00	17.9	0.8	3.75	22.38
SITE	Illuminance	Fc	4.64	11.9	1.0	4.64	11.90

GENERAL IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED.
2. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS, IRRIGATION SYSTEM SPECIFICATIONS AND ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS.
3. ALL IRRIGATION MAINLINE AND LATERAL LINES ARE TO NOT EXCEED A VELOCITY OF 5FPS.
4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.
5. REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BALLS WHEN INSTALLING IRRIGATION EQUIPMENT. CALL 811 AND REFER TO UTILITY PLANS PRIOR TO TRENCHING.
6. IRRIGATION CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. THE IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS.
7. SIXTY (60) PSI MINIMUM STATIC WATER PRESSURE IS REQUIRED FOR THE EFFICIENT OPERATION OF THE IRRIGATION SYSTEM AS DESIGNED. VERIFY THE MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE IRRIGATION DESIGN CONSULTANT AND LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE.
8. WHERE EXISTING OR NEW TREES, LIGHT FIXTURES, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN. THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION.
9. 100% HEAD TO HEAD COVERAGE IS REQUIRED. ASSURE THAT ANY MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS.
10. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO IMPERVIOUS AREAS.
11. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW AND INSTALLED AS SHOWN ON THE PLANS. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THE PRODUCT MANUFACTURER.
12. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
13. CONTRACTOR IS TO SUBMIT PRODUCT SPECIFICATION SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE USED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
14. THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.
15. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN DEBRIS-FREE MATERIALS.
16. IRRIGATION CONTRACTOR IS TO INSTALL CHRISTY ZONE TAGS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER AT EACH CONTROL VALVE.
17. WHEN THE IRRIGATION MAINLINE IS 3" OR LARGER, ALL CHANGES OF DIRECTION SHALL BE ACCOMPLISHED WITH THE USE OF DUCTILE IRON ELBOWS AND TEES W/ PROPER THRUST BLOCKING.
18. AS BUILT DOCUMENTS ARE TO BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. THE MAINLINE, CONTROL VALVES, ISOLATION VALVES, GROUND RODS AND SPLICE BOXES SHALL BE LOCATED WITH A MEASUREMENT FROM TWO FIXED POINTS.
19. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF ON-SITE OPERATIONS.
20. A MAINLINE PRESSURE TEST IS TO BE CONDUCTED BEFORE BACKFILLING. ALL FINDINGS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT WITHIN TWENTY FOUR HOURS POST TEST.
21. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM.
22. ALL IRRIGATION HEADS ARE TO BE INSTALLED AT THE END OF PARKING SPACES IN LINE WITH PARKING STRIPES OR 2.5 FEET FROM BACK OF CURB.



TWO-WIRE NOTES

DECODERS

CONTROLLER SHALL INTERFACE WITH HUNTER ICD DECODERS, EACH CAPABLE OF CONTROLLING 1, 2, 4, OR 6 VALVES (ICD-100, ICD-200, ICD-400, AND ICD-600)
 PROVIDE AN ICD-SEN SENSOR DECODER FOR FLOW SENSOR(S) AND/OR CLIK SENSOR(S) ON TWO WIRE PATH
 WIRE CONNECTIONS FROM DECODER OUTPUT TO SOLENOID SHALL BE 14 AWG, TYPE PE
 WIRE DISTANCE FROM DECODER OUTPUT TO SOLENOID UNDER NORMAL CONDITIONS SHALL NOT EXCEED 150-FT [45-M]
 INSTALL IN VALVE BOX ON DECODER STAKE KIT (DECSTAKE-10) WITH BOTTOM OF DECODER FACING UP
 CONTRACTOR SHALL INDICATE ASSOCIATED VALVE NUMBER(S) ON MANUFACTURER PROVIDED LABEL ON DECODER WITH PERMANENT MARKER

WIRES

WIRE FOR TWO-WIRE PATH SHALL BE TWISTED AND JACKETED HUNTER IDWIRE, OR APPROVED EQUAL (PAIGE ELECTRIC P7354D); COATED WIRE SHALL NOT BE ACCEPTED AS AN EQUAL; ACCEPTABLE EQUAL PRODUCTS MUST CONSIST OF TWO SEPARATELY PE JACKETED WIRE TWISTED INSIDE OF A PE JACKET
 CONTRACTOR SHALL INSTALL IDWIRE1 (14 AWG) FOR WIRE PATH LENGTH UP TO 10,000-FT [3,048-M] AND IDWIRE2 (12 AWG) FOR WIRE PATH LENGTH UP TO 15,000-FT [4,572-M]; WIRE PATH LENGTHS DECREASE WITH SUBSTITUTED WIRE
 WIRE JACKET COLORS SHALL BE SUCH TO FACILITATE THE IDENTIFICATION OF VARIOUS WIRE PATH ZONES; SEE WIRE JACKET CHART FOR WIRE TYPE, COLOR AND ASSOCIATED VALVES
 THE CONTROLLER ALLOWS UP TO THREE (3) TWO-WIRE PATHS PER OUTPUT MODULE, CONTRACTOR SHALL NOT CONNECT ANY TWO-WIRE PATH FROM ONE OUTPUT MODULE TO ANOTHER OUTPUT MODULE
 WIRE CONNECTION FROM DECODER OUTPUT TO SOLENOID SHALL BE COLORED TO MATCH THE ASSOCIATED DECODER OUTPUT STATION COLOR; RED AND BLUE COLORED WIRES SHALL NOT BE USED FOR CONNECTION BETWEEN DECODER OUTPUT AND SOLENOID

SPLICES

ALL CONNECTIONS AND SPLICES IN THE RED/BLUE TWO-WIRE PATH MUST BE MADE WITH 3M DBRY-6 WATERPROOF CONNECTORS INSTALLED PER MANUFACTURERS INSTRUCTIONS IN VALVE BOX WITH OPEN END OF CONNECTOR FACING DOWN
 CONTRACTOR SHALL PROVIDE 36-IN [1-M] LOOP OF SLACK WIRE, MEASURED FROM TOP OF VALVE BOX, NEATLY COILED INSIDE ALL SPLICE BOXES AND VALVE BOXES
 ANY SPLICES IN THE TWO-WIRE PATH NOT ASSOCIATED WITH A DECODER SHALL BE HOUSED IN SEPARATE VALVE BOXES WITH 36-IN [1-M] LOOP OF SLACK WIRE
 CONTRACTOR SHALL INDICATE TWO-WIRE PATH DIRECTIONS IN PERMANENT MARKER WITHIN 6-IN [2.5-CM] OF TWO-WIRE SPLICE ON WIRE JACKET OR ID TAG ZIP TIED TO WIRE; INCOMING WIRE SHALL BE MARKED "CONTROLLE" ON WIRE JACKET OR ID TAG AND MUST INCLUDE ZIP-TIE ATTACHED TO WIRE JACKET EACH OUTGOING TWO-WIRE PATH SHALL BE MARKED WITH CONNECTED VALVES ON WIRE JACKET
 CONTRACTOR SHALL ENSURE ALL CONNECTIONS TO BE WATERTIGHT WITH NO ELECTRICAL LEAKAGE TO GROUND OR SHORTING BETWEEN CONDUCTORS

GROUNDING

ALL GROUNDING AND INSTALLATION OF EQUIPMENT SPECIFIED SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS
 BOTH THE CONTROLLER AND THE DECODERS SHALL BE GROUNDED TO GROUND RODS OR PLATES WITH LESS THAN 10 OHMS RESISTANCE
 IRRIGATION CONTROLLER AND PAD SHALL NOT FALL WITHIN THE SPHERE OF INFLUENCE OF A GROUND ROD OR PLATE
 AT A MINIMUM, EARTH GROUND SHALL BE CONNECTED AT THE FIRST DECODER OF EACH WIRE PATH LEAVING THE CONTROLLER, AND EVERY 12TH VALVE/DECODER OR 1,000-FT [304-M] OF TWO-WIRE RUN (WHICHEVER IS SHORTER), AND AT THE LAST VALVE/DECODER IN ANY WIRE RUN EXCEEDING 50' FROM MAIN WIRE PATH
 FOR USE OF GROUNDING PLATE:

- SOLID COPPER GROUNDING PLATE SHALL HAVE A PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE
- GROUND PLATES ARE TO BE INSTALLED TO A MINIMUM DEPTH OF 30-IN [76-CM]
- GROUND PLATES SHALL BE MADE OF A COPPER ALLOY INTENDED FOR GROUNDING APPLICATIONS AND HAVE MINIMUM DIMENSIONS AS FOLLOWS:
 - FOR GROUNDING CONTROLLERS - 4-IN [10-CM] X 8-FT [1.2-M] X 0.0625-IN [1.5-MM] SOLID COPPER GROUNDING PLATE, WITH 25-FT [7.6-M] CONTINUOUS LENGTH OF 6 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE WELDED TO THE PLATE (PAIGE ELECTRIC 1821991C) AND TWO 50-LB [22.6-KG] BAGS OF POWERSSET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR TWO 50-LB [22.6-KG] BAGS OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS
 - FOR GROUNDING DECODERS - 4-IN [10-CM] X 3-FT [1-M] X 0.0625-IN [1.5-MM] SOLID COPPER GROUNDING PLATE, WITH 15-FT [4.5-M] CONTINUOUS LENGTH OF 10 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE IS WELDED TO THE PLATE (PAIGE ELECTRIC 1822011C) AND ONE 50-LB [22.6-KG] BAG OF POWERSSET EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820058) FOR POROUS SOILS OR ONE 50-LB [22.6-KG] BAG OF POWERFILL EARTH CONTACT MATERIAL (PAIGE ELECTRIC 1820059) FOR NON-POROUS SOILS FOR USE OF GROUNDING ROD. GROUND ROD SHALL BE 5/8-IN [15-MM] DIAMETER X 8-FT [1.2-M] LONG COPPER CLAD STEEL GROUND RODS WITH 15-FT [4.5-M] PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182001C6)

GROUND ROD SHALL BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10-FT [3-M] FROM THE ELECTRONIC EQUIPMENT, THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED

ADDITIONAL GROUND ROD IN DAISY CHAIN INSTALLATION SHALL BE 5/8-IN [15-MM] DIAMETER X 8-FT [1.2-M] LONG COPPER CLAD STEEL GROUND RODS WITH 25-FT [4.5-M] PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE (PAIGE ELECTRIC PART # 182001C6)

GROUND RODS SHALL BE COVERED BY A VALVE BOX
 ALL CIRCUIT COMPONENTS SHALL BE INSTALLED IN STRAIGHT LINES

GROUND ROD AND PLATE LOCATION

CONTRACTOR SHALL LOCATE AND INSTALL GROUND ROD AND/OR PLATE IN AREA OF MOIST SOIL TO MAXIMIZE ELECTRICAL CONDUCTIVITY

SURGE PROTECTION (LIGHTNING ARRESTOR)

CONTRACTOR SHALL INSTALL PAIGE ELECTRIC 250090LED LIGHTENING ARRESTOR PER MANUFACTURERS SPECIFICATIONS AS CLOSE TO CONTROLLER POWER SOURCE AS POSSIBLE TO PROTECT THE IRRIGATION CONTROLLER FROM SURGES THROUGH 120 OR 240 VAC WIRES

TURN OVER ITEMS

CONTRACTOR SHALL PROVIDE PROJECT OWNER WITH THE FOLLOWING AT PROJECT COMPLETION AND TURN OVER:
 A2C-D SD CARD WITH SAVED STATION AND IRRIGATION PROGRAM INFORMATION
 PRODUCT MANUALS
 IN ADDITION TO IRRIGATION AS-BUILT REQUIREMENTS, THE CONTRACTOR SHALL INCLUDE IN THE AS-BUILT DRAWINGS OF IRRIGATION SYSTEM GRAPHICALLY DEPICTING LOCATION OF TWO-WIRE PATH(S), GROUNDING LOCATION AND TYPE, DECODERS, NON-DECODER WIRE SPLICES, INDICATION OF TWO-WIRE SPLICE TYPES (1-WAY, 2-WAY, 3-WAY, ETC), AND TERMINATION OF TWO-WIRE PATHS ICD-HP HANDHELD PROGRAMMER AND DIAGNOSTIC TOOL ROAM XL HANDHELD REMOTE AND RECEIVER

MANUFACTURER TRAINING

PRIOR TO INSTALLATION THE CONTRACTOR SHALL HAVE COMPLETED AND RECEIVED CERTIFICATION FOR THE FOLLOWING TRAINING MODULES PROVIDED BY HUNTER INDUSTRIES:

- DECODER SPECIALIST PROGRAM
- MULTIMETER BASICS COURSE
- EXPERT PROGRAM

PRE-CONSTRUCTION MEETING

PRIOR TO INSTALLATION OF TWO-WIRE IRRIGATION SYSTEM, A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED WITH PROJECT OWNER'S REPRESENTATIVE, INSTALLING CONTRACTOR, AND IRRIGATION TWO-WIRE MANUFACTURER AT NO ADDITIONAL COST FROM MANUFACTURER

TECHNICAL SUPPORT

HUNTER INDUSTRIES (800) 733-2823

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Hunter PROS-06-CV-R 5' strip spray Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	3	30
	Hunter PROS-06-CV-R 5' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	22	30
	Hunter PROS-06-CV-R 8' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	82	30
	Hunter PROS-06-CV-R 10' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	228	30
	Hunter PROS-06-CV-R 12' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	8	30
	Hunter PROS-06-CV-R 15' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	25	30
	Hunter PROS-06-CV-R 17' radius Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	17	30
	Hunter PROS-06-CV-R adjustable arc Turf Spray, 6.0" Pop-Up. With Drain Check Valve, and Reclaimed Purple Body Cap. Co-molded wiper seal with UV Resistant Material.	147	30
	Hunter MP Corner PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with factory installed check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS30 body.	11	30
	Hunter MP Strip PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with factory installed check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.	139	30
	Hunter MP1000 PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	126	30
	Hunter MP2000 PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	161	30
	Hunter MP3000 PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with factory installed check valve, floguard, reclaimed body cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	139	30
	Hunter MP3500 PROS-12-PRS30-CV-F-R Shrub Rotator, 12" Pop-up with factory installed check valve, floguard, reclaimed purple cap, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. LB=light brown adjustable arc, 90-210.	27	30
	Hunter MP800SR PROS-12-PRS30-CV-F-R Shrub Rotator, 12" pop-up with check valve, floguard, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)	122	30
	Hunter MP815 PROS-12-PRS30-CV-F-R Shrub Rotator, 12" (10.16 cm) pop-up with check valve, floguard, reclaimed body cap, pressure regulated to 30 psi (2.76 bar), MP Rotator nozzle on PRS40 body. M=Maroon and Gray adj arc 90 to 210, L=Light Blue and Gray 210 to 270 arc, O=Olive and Gray 360 a	1	30
	Hunter PCB-R 10 Flood Bubbler, 1/2" FIPT. With Purple Cap for Reclaimed Water Use.	1,114	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Area to Receive Dripline Hunter HDL-09-12-R HDL-09-12-R: Hunter Dripline with 0.9 GPH flow. Light brown tubing with purple striping. Emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.	61,503 I.f.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	Landscape Products Inc. BGV 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" Brass Gate Valve. Threaded bonnet, Non-rising stem, Pressure rated to 200 psi. Same size as mainline.	19	
	Hunter IBV-BSP-FS-R 3" 1", 1-1/2", 2", and 3" Brass Electric Master Valve, Globe Configuration, with BSP Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry Factory Installed Option. With Reclaimed Water ID Purple Tag.	1	
	Hunter A2C-150D-PP 150-Station decoder controller with one (1) A2C-D75 module in an outdoor plastic pedestal.	1	
	Hunter ICD-HP Wireless handheld decoder programmer, includes all test and power leads, programming cup, and rugged carrying case. For commercial use.	1	
	Hunter MWS Weather Station with rain sensor, wind sensor, 120 VAC, 5 amp. 5 year warranty.	1	
	Hunter PSR-22 Pump Start Relay, 22 max full load amps. HP at 110VAC = 2; HP at 240VAC = 5. Single Phase.	1	
	Hunter HFS-400 Flow Sensor for use with ACC controller, 4" Schedule 40 Sensor Body, 24 VAC, 2 amp.	1	
	Point of Connection 4" Connect downstream of the existing 10HP pump and filter equipment.	1	
	Irrigation Mainline: PVC Class 200 SDR 21-NP	5,977 I.f.	
	Pipe Sleeve: PVC Schedule 40	937.2 I.f.	
	Valve Callout # Valve Number # Valve Flow # Valve Size		

*The quantities shown in the legend sheets shall not be used for bidding purposes. The contractor will be responsible for conducting a comprehensive materials takeoff to determine the actual quantities of material necessary to execute the work described in the documents.

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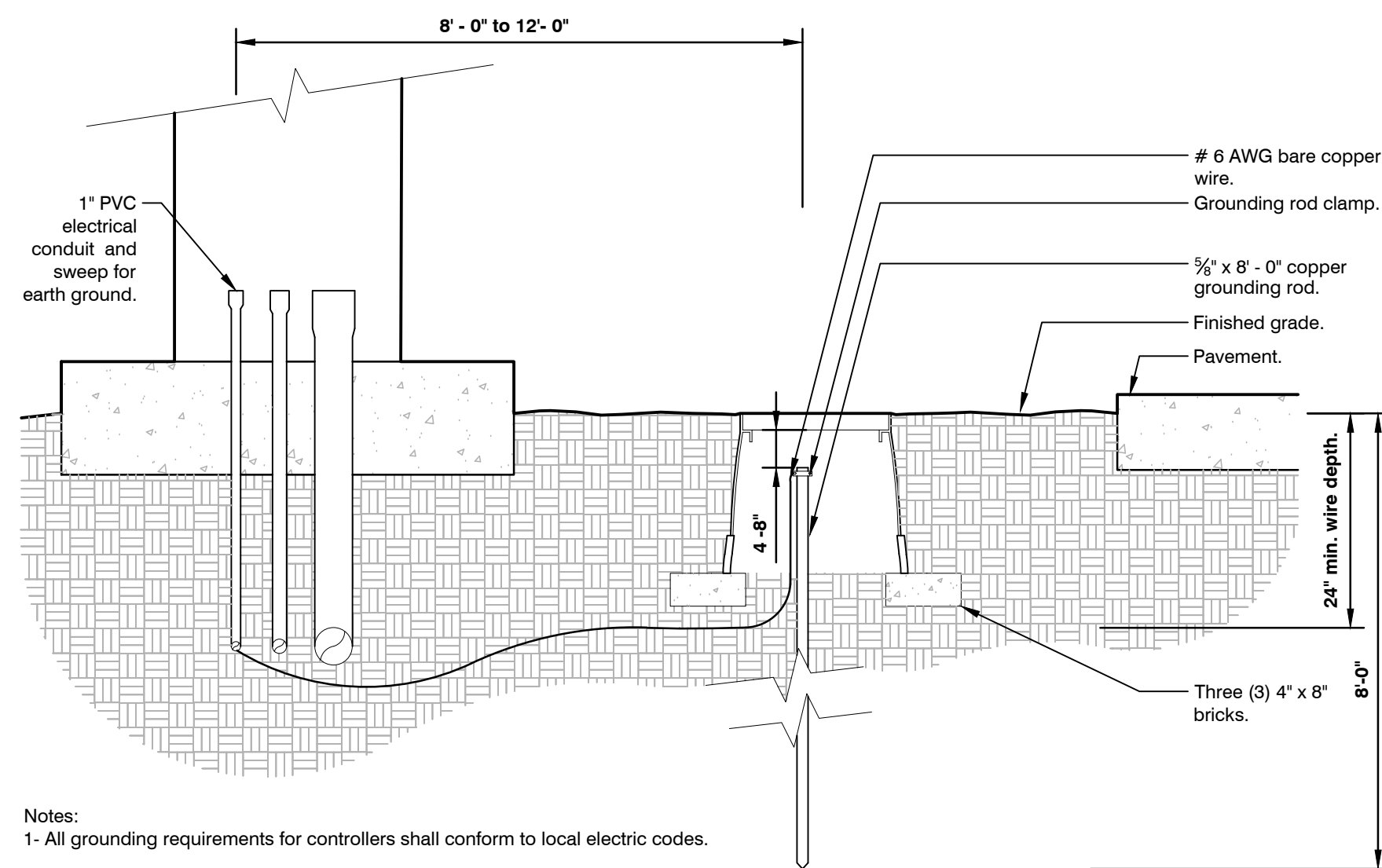
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 8601 SUNRISE BOULEVARD PLANTATION, FLORIDA

SEAL (MARSH C. KRIPLEN-LA6667007)

IRRIGATION LEGEND & NOTES

DATE	ISSUE
06/01/2021	PERMIT SET

IR900



- Notes:
- All grounding requirements for controllers shall conform to local electric codes.
 - Grounding rod shall not be located in the same trench as the irrigation mainlines or lateral lines.
 - Valve box shall be wrapped with a minimum 3 mil thick plastic and secured to the valve box using duct tape or electrical tape.
 - Install grounding rod per the controller manufacturer's specifications and recommendations.

1 GROUNDING ROD

1 1/2" = 1'-0"

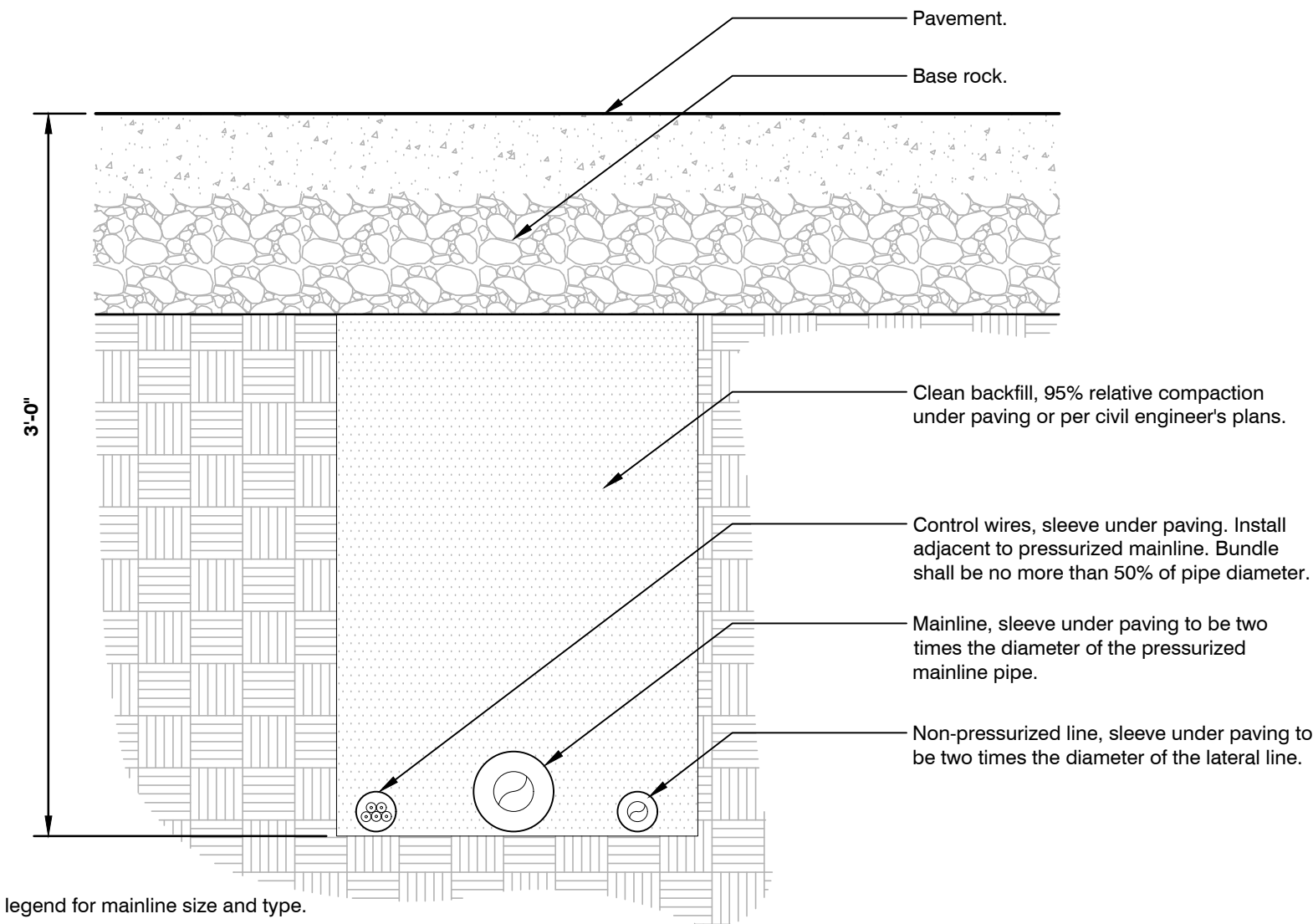
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- Notes:
- Common and controller wire to be bundled using electrical tape at 10'-0" on center.
 - Grounding rods shall be located between 8'-0" and 12'-0" away from the controller. Grounding rods shall be 3/4 inch in diameter x 8' in length. Connect the grounding rod to the controller using 6 gauge bare copper wire or per the manufacturer's specifications. See grounding rod detail.
 - ET Station to be installed no further than 90' away from the controller and a minimum of 15' off of the ground, out from under any overhead obstructions such as, but not limited to building overhangs, trees, or utilities.

2 PEDESTAL MOUNTED CONTROLLER

1 1/2" = 1'-0"

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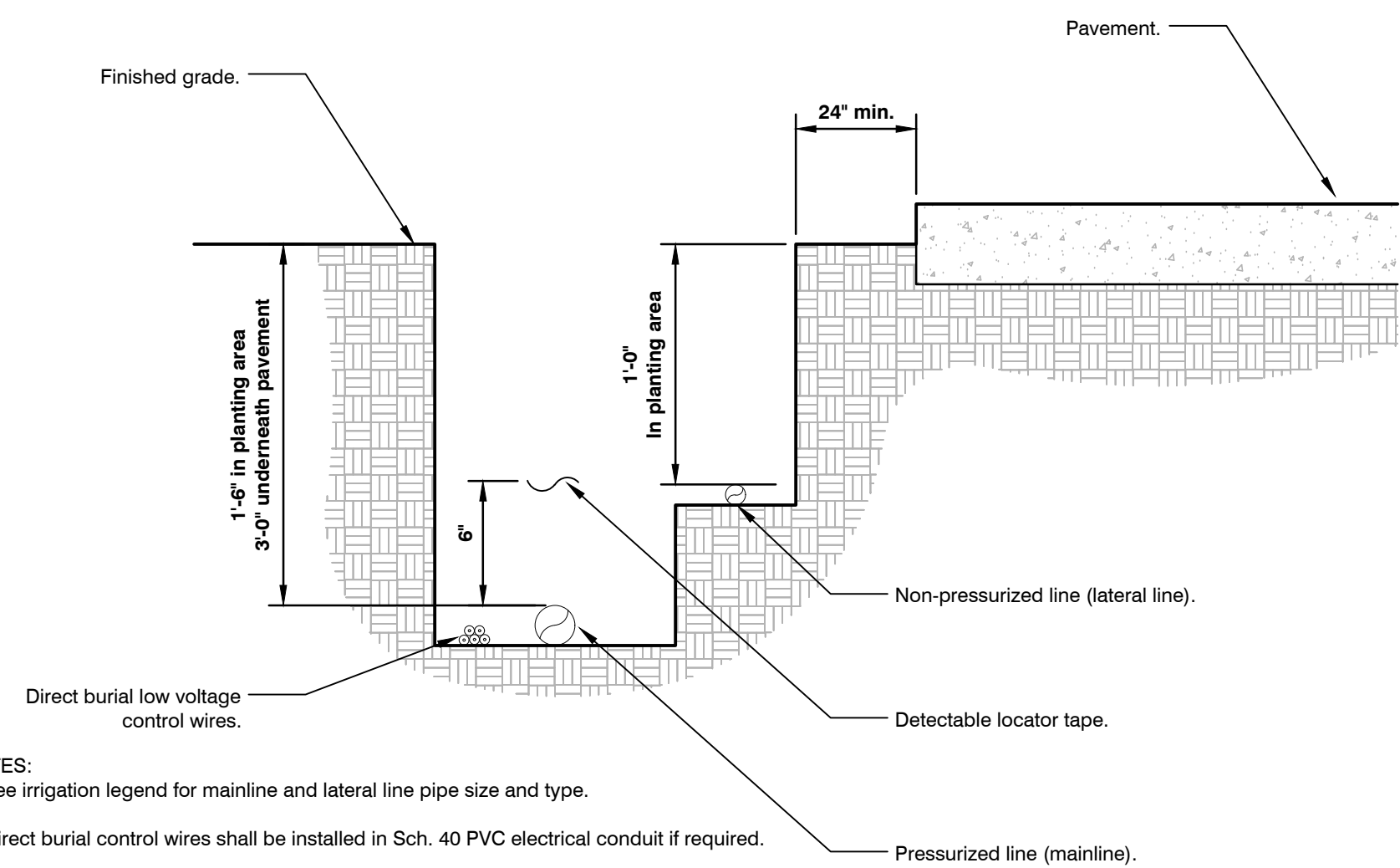


- Notes:
- See irrigation legend for mainline size and type.
 - All sleeves shall be Sch. 40 PVC pipe.
 - All sleeves shall extend 12" beyond the edge of pavement.
 - End of sleeves shall be located with a wooden stake or PVC pipe. Locators shall run continuously from the end of the sleeve to finished grade.

3 PIPE BENEATH PAVEMENT

1 1/2" = 1'-0"

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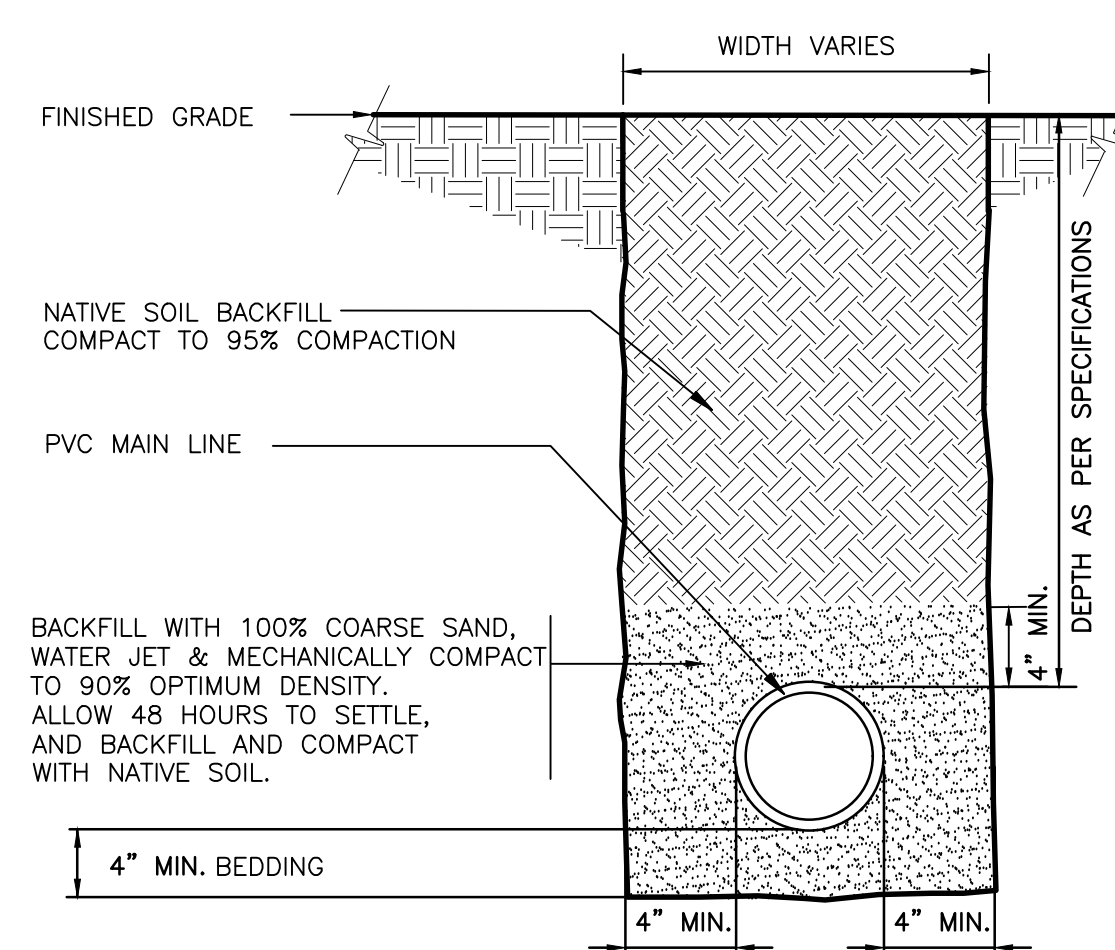


- NOTES:
- See irrigation legend for mainline and lateral line pipe size and type.
 - Direct burial control wires shall be installed in Sch. 40 PVC electrical conduit if required.
 - 2-wire irrigation wire shall be installed in Sch. 40 PVC electrical conduit.
 - Detectable locator tape shall be located six inches (6") above the entire mainline run.

4 IRRIGATION TRENCHING

1 1/2" = 1'-0"

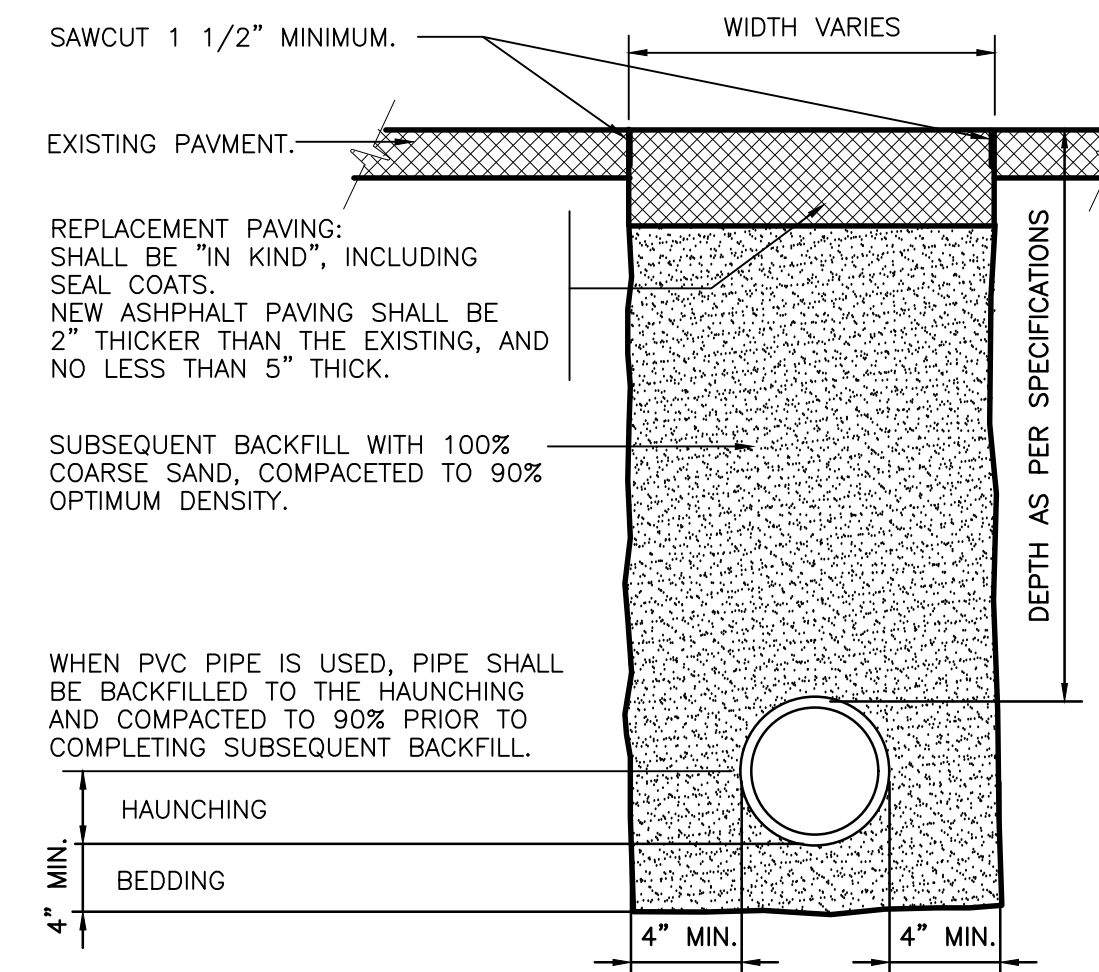
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5 SLEEVE AT ROAD

1 1/2" = 1'-0"

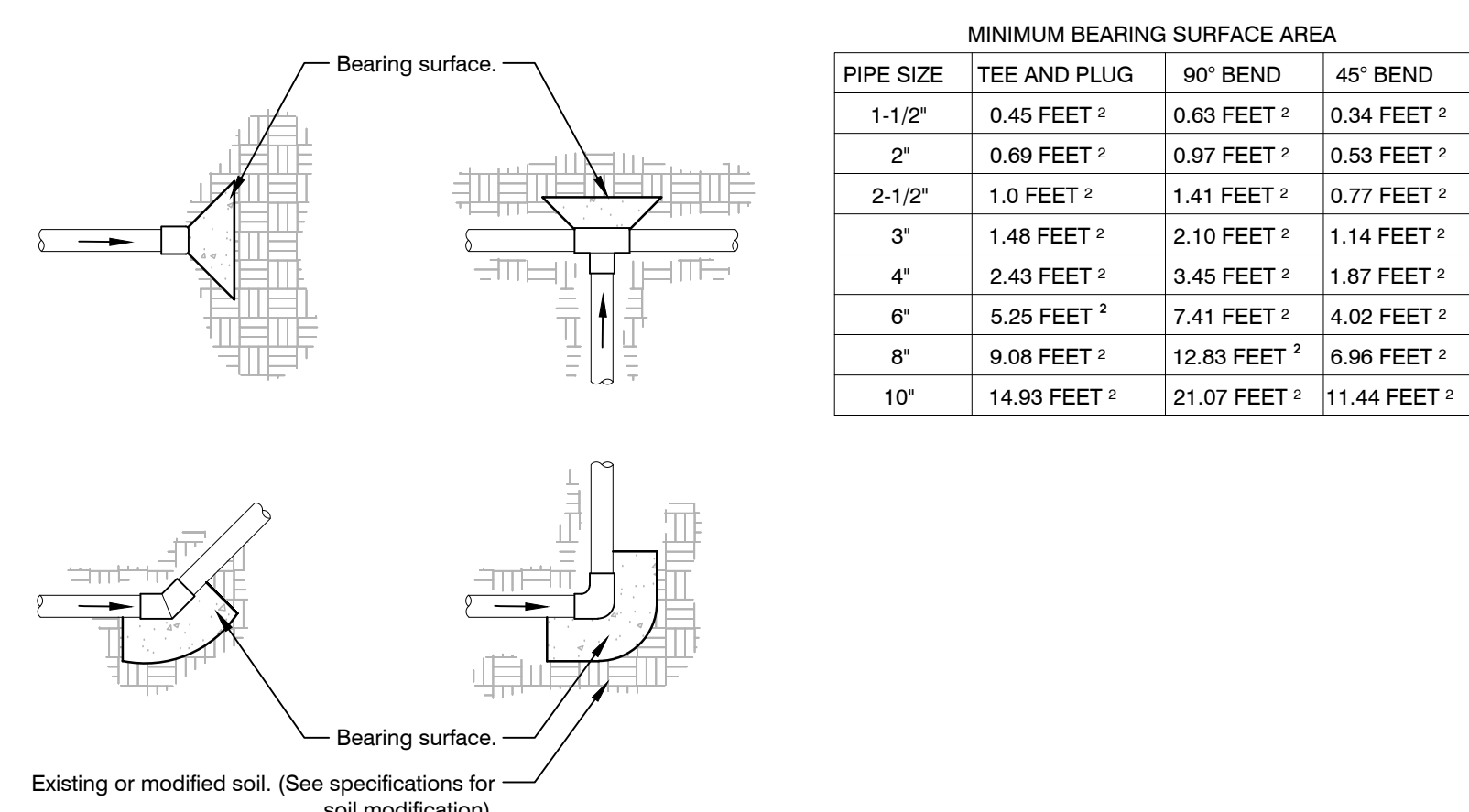
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6 TRENCH DETAIL AT ASPHALT PAVING

1 1/2" = 1'-0"

FX-IR-FX-AUXEQ-12



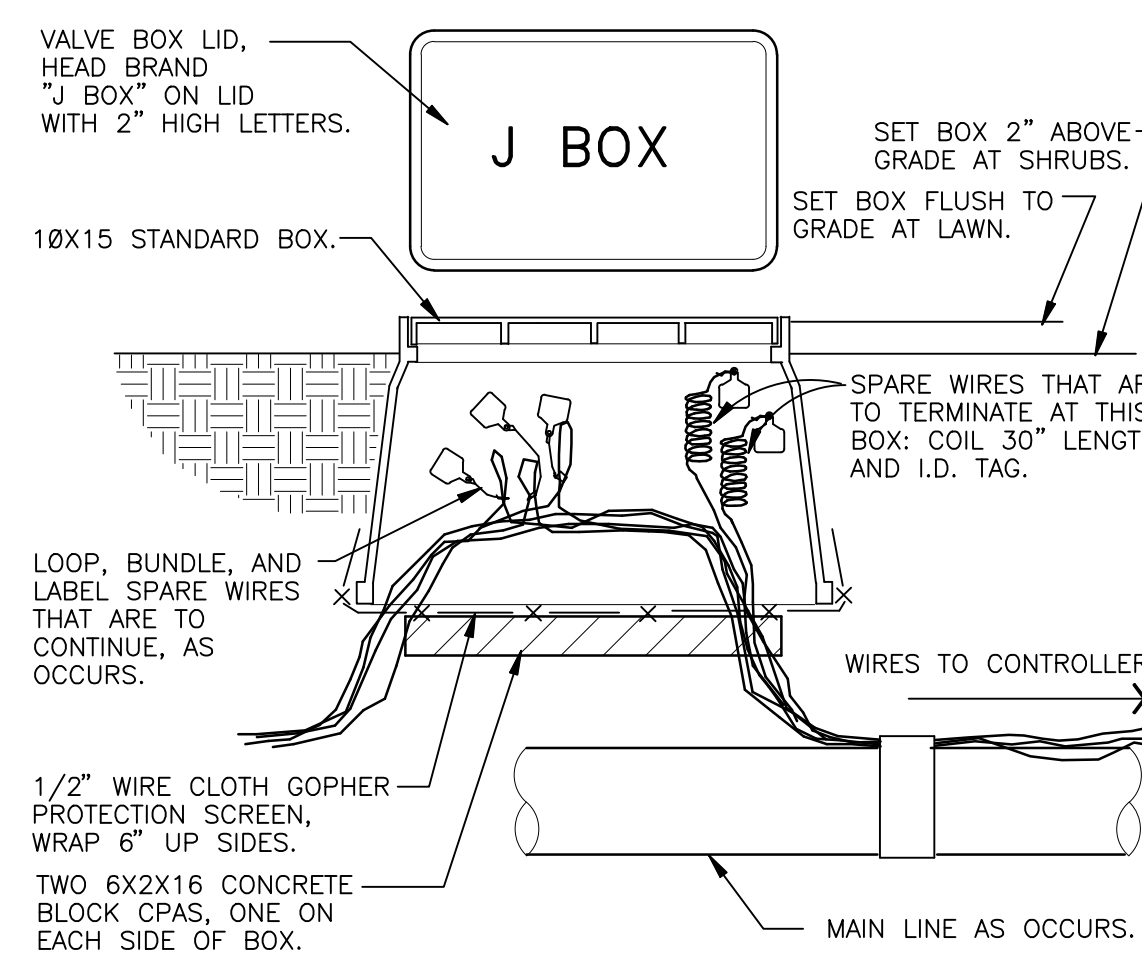
- Notes:
- Size thrust blocks shall be specified as show in the table above.
 - Control wires shall not be encased in concrete.
 - All fittings shall be wrapped with polyethylene to prevent concrete from adhering to pipe, fittings or bolts.
 - Joints and bolts shall be accessible for repairs.
 - Thrust blocks shall be a minimum of 6" thick.
 - One 80 lbs. sack of concrete shall cover .6 ft.³

7 THRUST BLOCK

1 1/2" = 1'-0"

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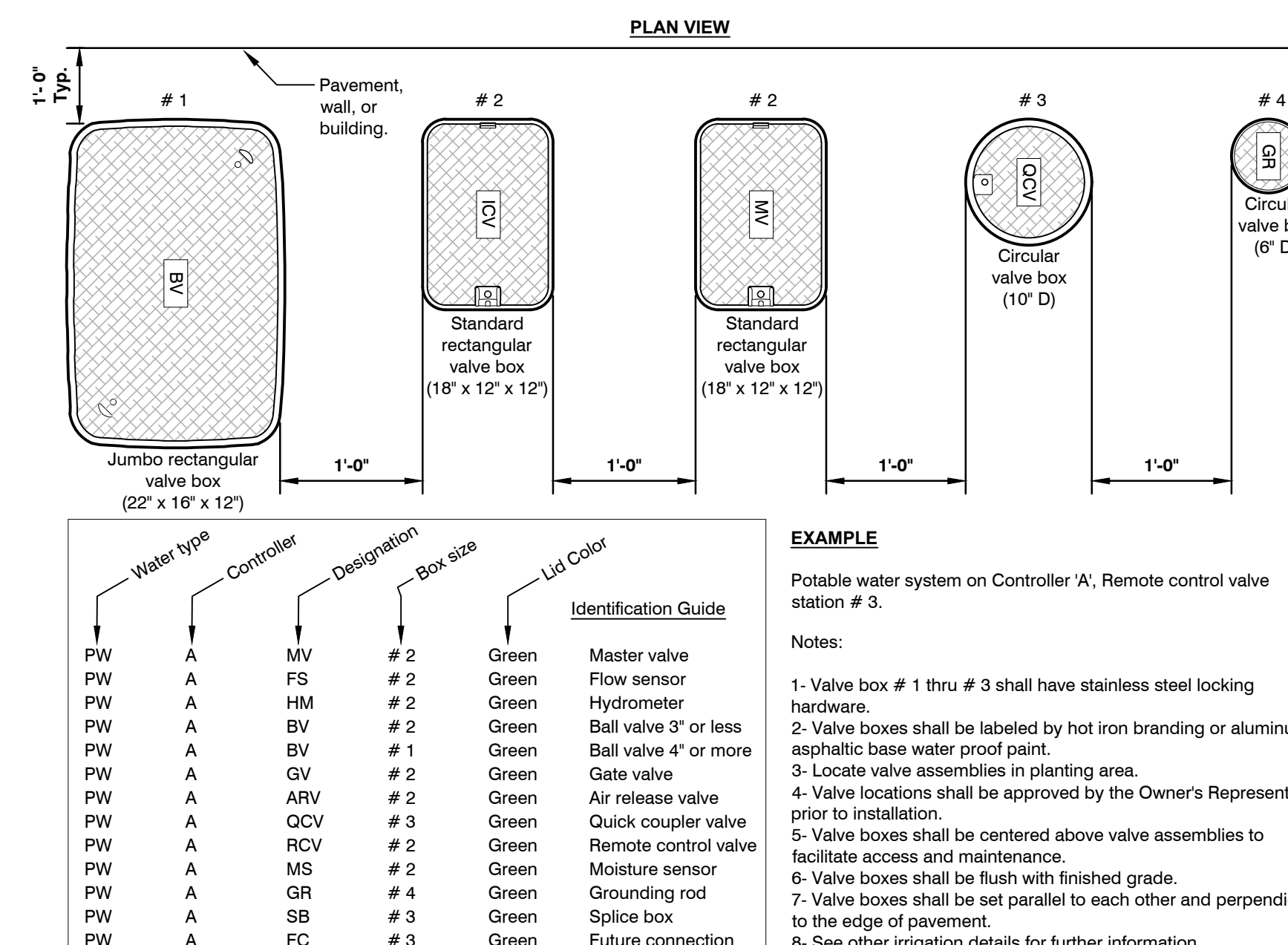
PIPE SIZE	MINIMUM BEARING SURFACE AREA		
	TEE AND PLUG	90° BEND	45° BEND
1-1/2"	0.45 FEET ²	0.63 FEET ²	0.34 FEET ²
2"	0.69 FEET ²	0.97 FEET ²	0.53 FEET ²
2-1/2"	1.0 FEET ²	1.41 FEET ²	0.77 FEET ²
3"	1.48 FEET ²	2.10 FEET ²	1.14 FEET ²
4"	2.43 FEET ²	3.45 FEET ²	1.87 FEET ²
6"	5.25 FEET ²	7.41 FEET ²	4.02 FEET ²
8"	9.08 FEET ²	12.83 FEET ²	6.96 FEET ²
10"	14.93 FEET ²	21.07 FEET ²	11.44 FEET ²



8 WIRE BUNDLE JUNCTION BOX

1 1/2" = 1'-0"

FX-IR-FX-AUXEQ-16



9 VALVE BOX LAYOUT

1" = 1'-0"

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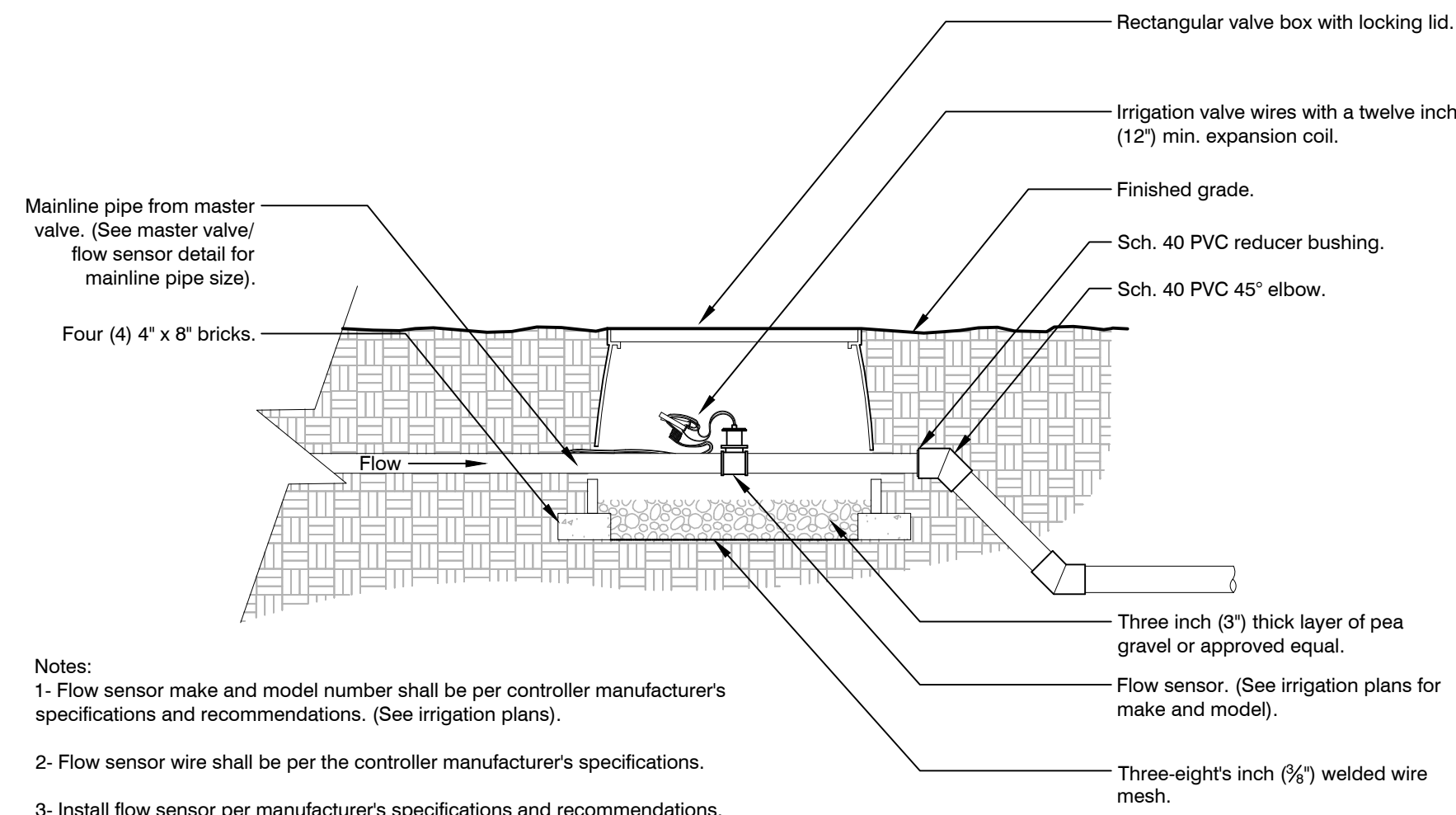
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IRRIGATION DETAILS

DATE	ISSUE
06/01/2021	PERMIT SET

IR901

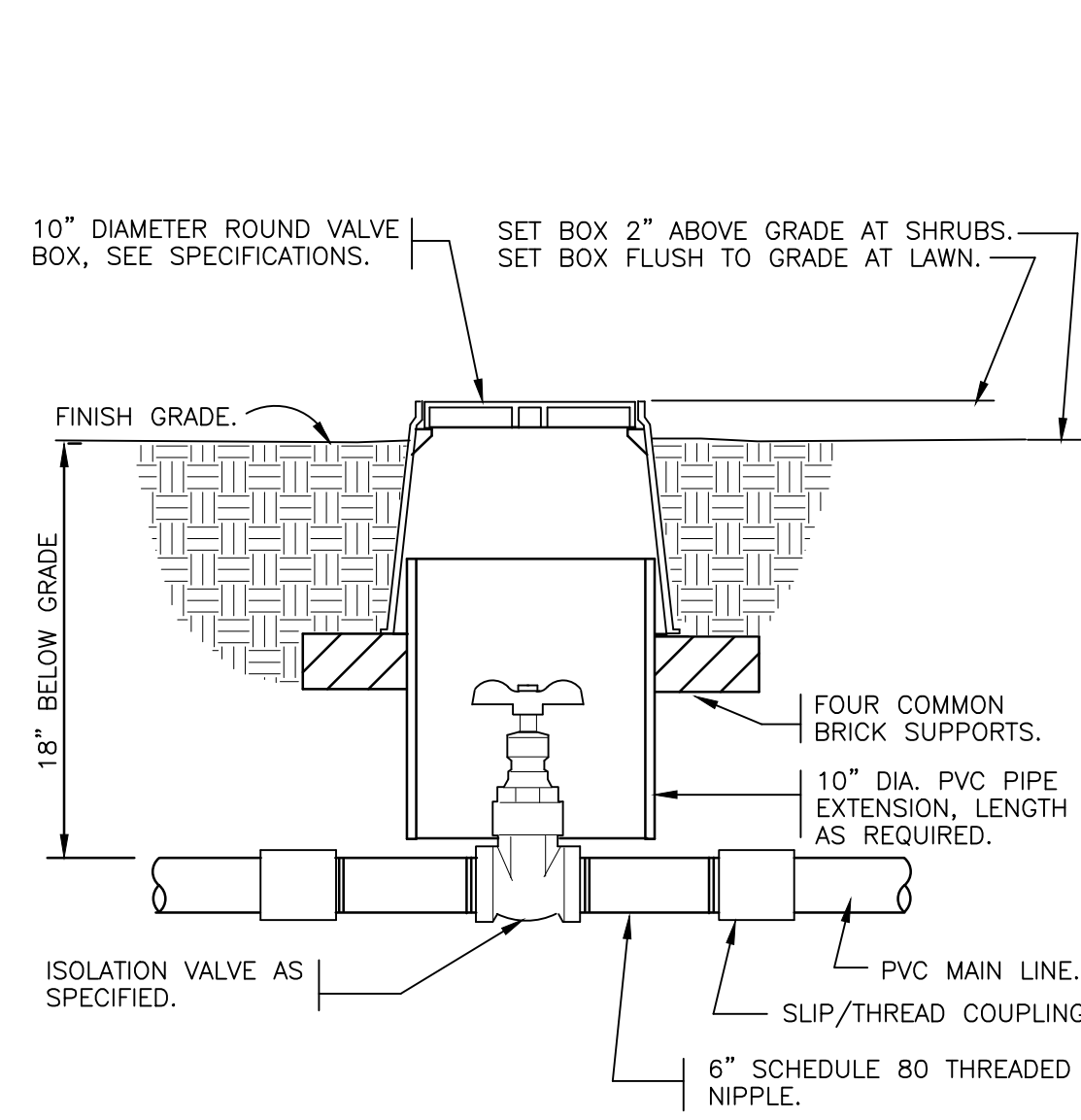
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- Notes:
- 1- Flow sensor make and model number shall be per controller manufacturer's specifications and recommendations. (See irrigation plans).
 - 2- Flow sensor wire shall be per the controller manufacturer's specifications.
 - 3- Install flow sensor per manufacturer's specifications and recommendations.
 - 4- All wire runs shall be continuous without any splices. Wire connections shall be made using DBR/Y-6 connectors or approved equal.
 - 5- Valve box shall be wrapped with a min. of three (3) mil thick plastic and secure it to the valve box using duct tape or electrical tape.
 - 6- See master valve/flow sensor detail for linear dimensions.

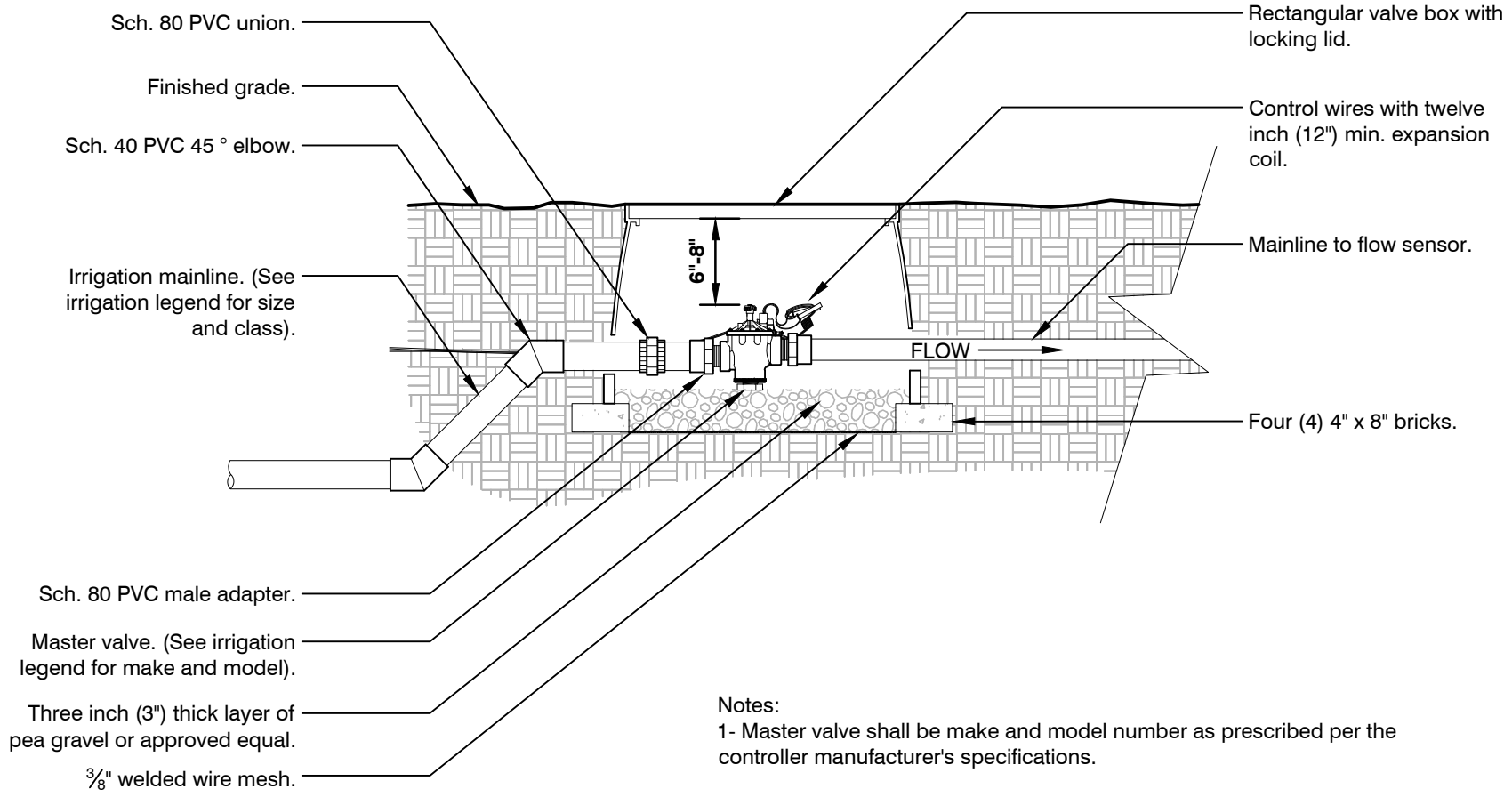
1 FLOW SENSOR
1" = 1'-0"

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2 BRASS ISOLATION VALVE
1 1/2" = 1'-0"

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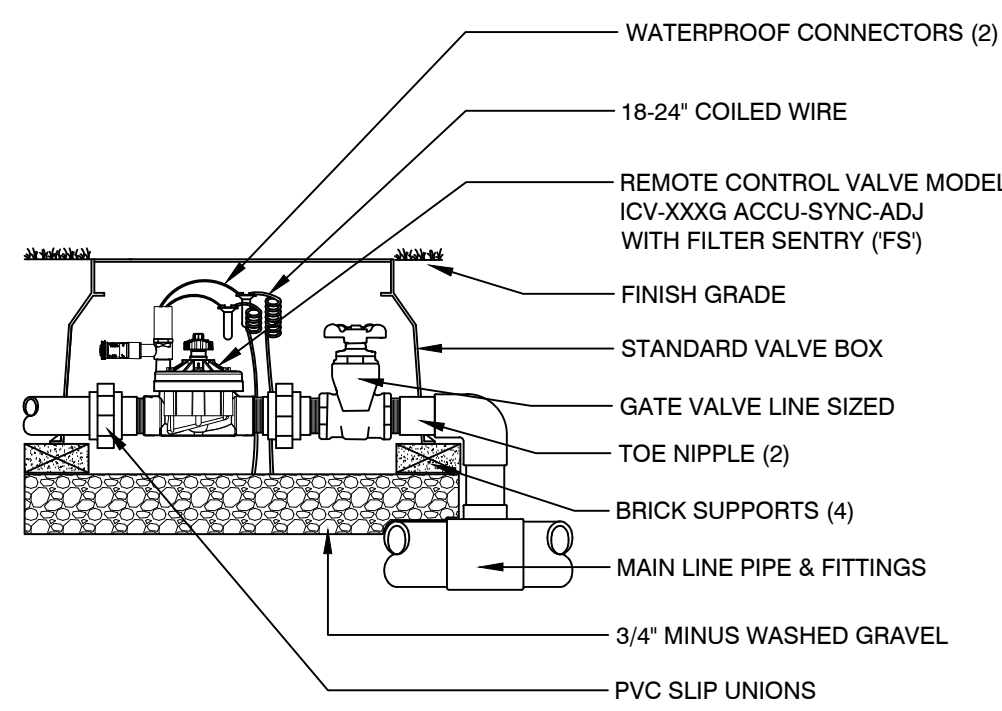


- Notes:
- 1- Master valve shall be make and model number as prescribed per the controller manufacturer's specifications.
 - 2- Install master valve per manufacturer's specifications and recommendations.
 - 3- Master valve wire shall be 14 AWG or larger. Color: black.
 - 4- All wire runs shall be continuous without any splices. Wire connections shall be made using DBR-Y/6 connectors or approved equal.
 - 5- Wrap valve box with min. 3 mil. thick plastic and secure it to the valve box using duct tape or electrical tape.
 - 6- See master valve/flow sensor detail for linear dimensions.
 - 7- Valve boxes shall be located in planting areas.

3 MASTER VALVE
1" = 1'-0"

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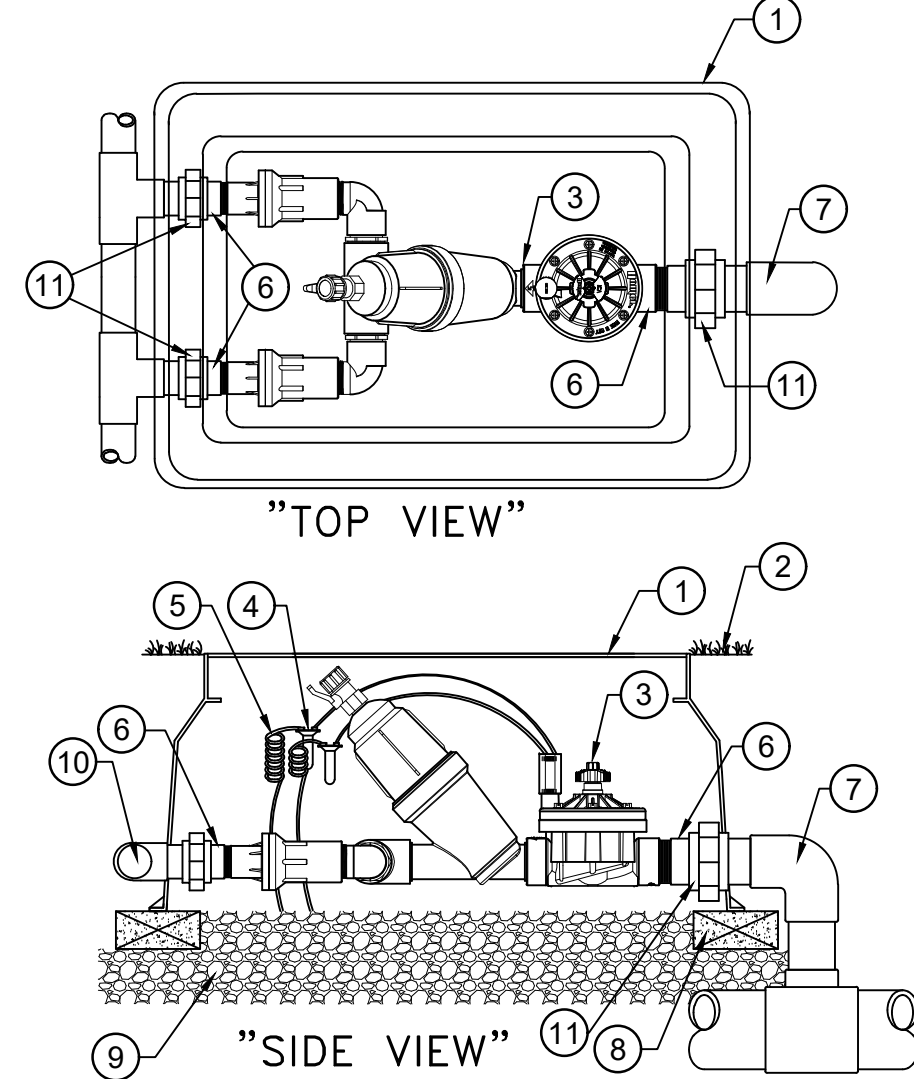
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4 ICV GLOBE VALVE WITH ISOLATION VALVE (1)
1" = 1'-0"

FX-IR-HUNT-VALV-22

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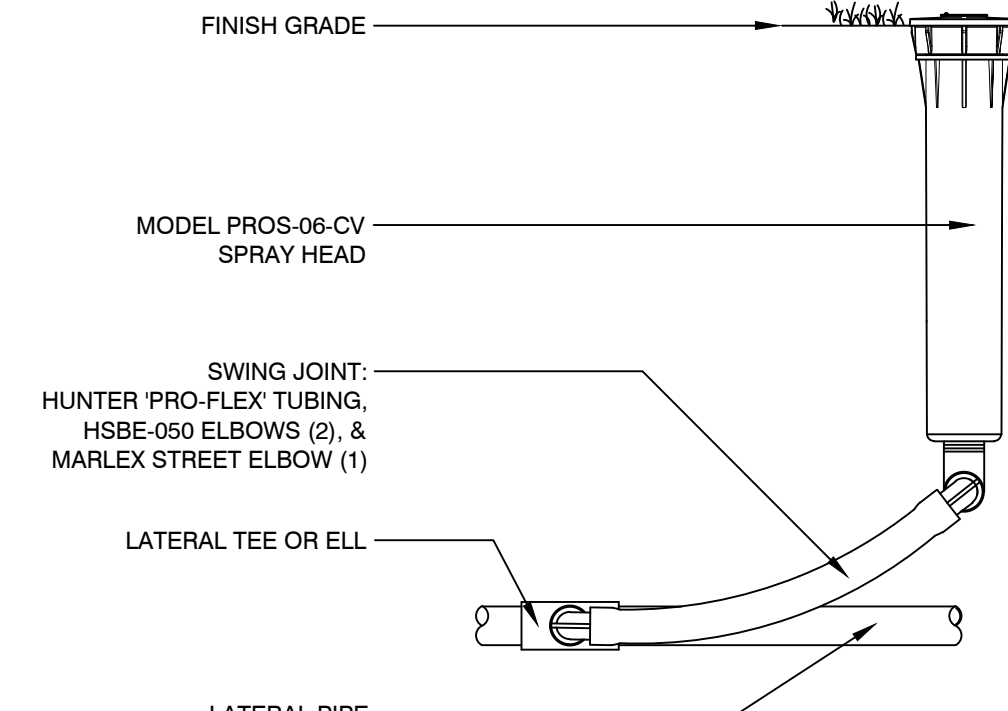


- 1 SUPER JUMBO VALVE BOX
- 2 FINISH GRADE
- 3 DRIP ZONE KIT MODEL ICZ-151-40 WITH FILTER (TP 45 DEGREES) REGULATOR 40 PSI
- 4 WATERPROOF CONNECTORS (2)
- 5 18-24" COILED WIRE
- 6 SCH 80 T.O.E. NIPPLE
- 7 MAIN LINE PIPE & FITTINGS
- 8 BRICK SUPPORTS (7)
- 9 3/4" MINUS WASHED GRAVEL
- 10 LATERAL PIPE AND FITTINGS
- 11 PVC SLIP UNIONS (2)

5 ICZ-151-40 DRIP CONTROL KIT WITH UNIONS
1 1/2" = 1'-0"

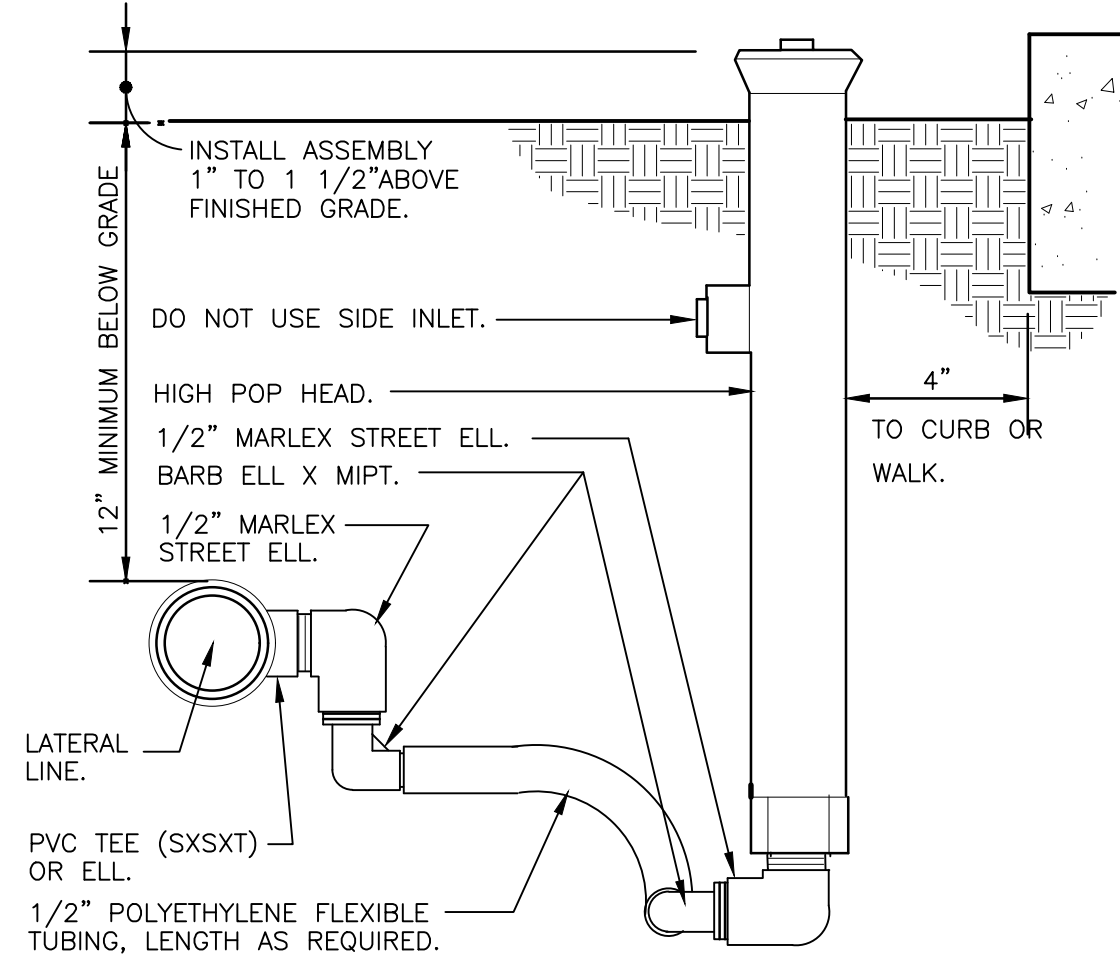
FX-IR-HUNT-DRIP-19

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6 PROS-06-CV SPRAY HEAD WITH PRO-FLEX TUBING
3" = 1'-0"

FX-IR-HUNT-SPRA-40



7 SHRUB SPRAY HIGHPOP W/FLEX ASSEMBLY
3" = 1'-0"

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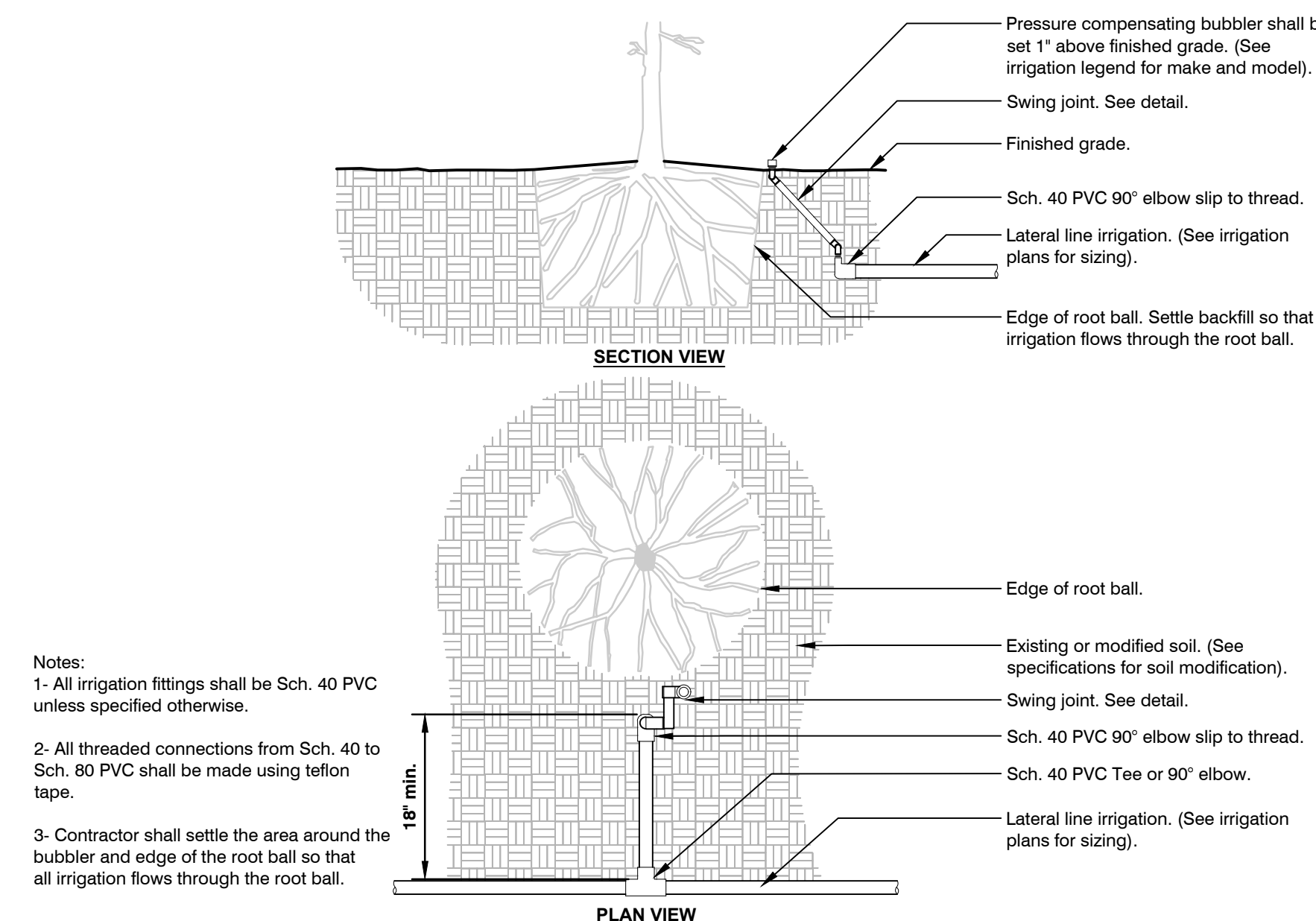
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IRRIGATION DETAILS	
DATE	ISSUE
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IR902

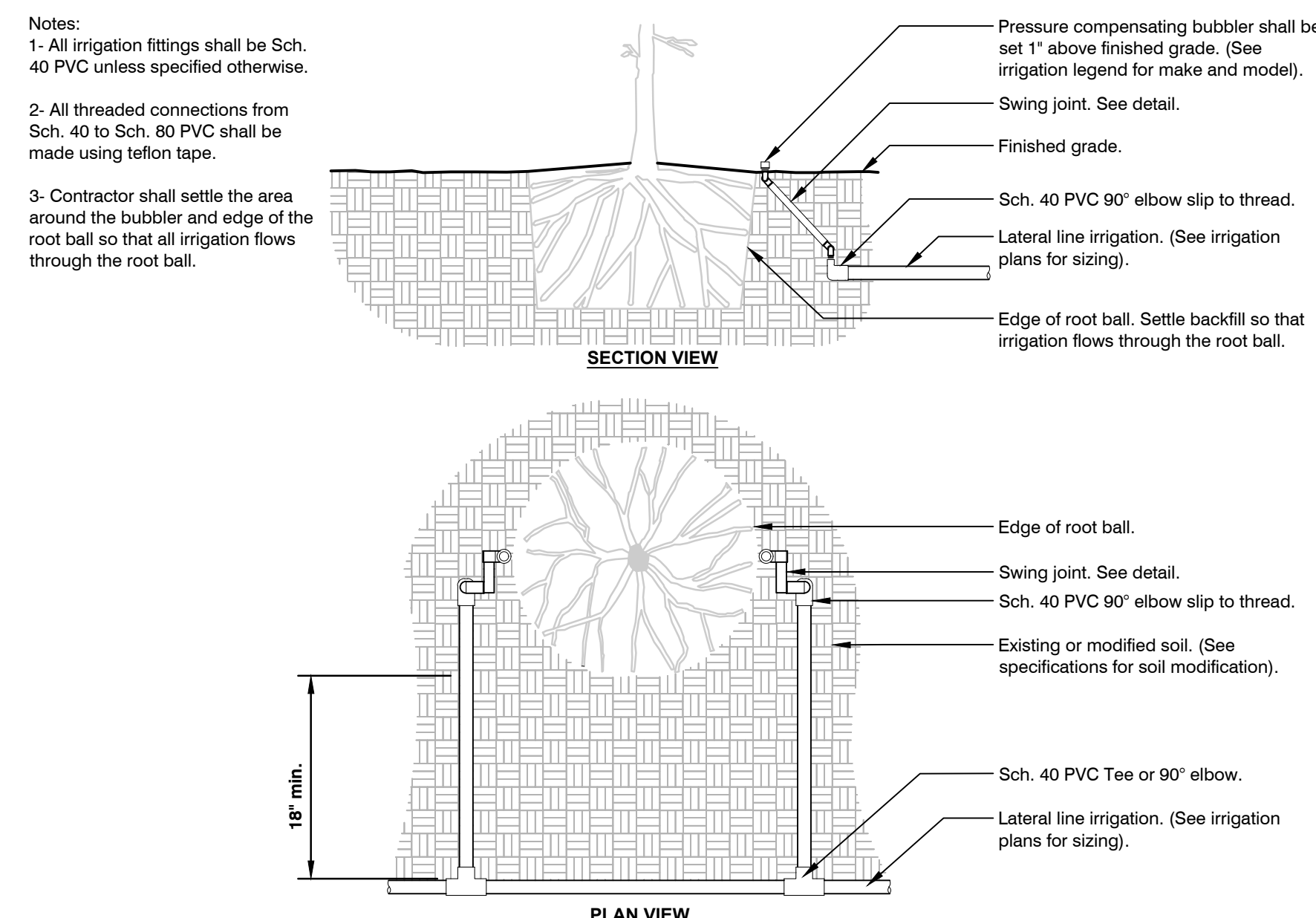
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- Notes:
- 1- All irrigation fittings shall be Sch. 40 PVC unless specified otherwise.
 - 2- All threaded connections from Sch. 40 to Sch. 80 PVC shall be made using teflon tape.
 - 3- Contractor shall settle the area around the bubbler and edge of the root ball so that all irrigation flows through the root ball.

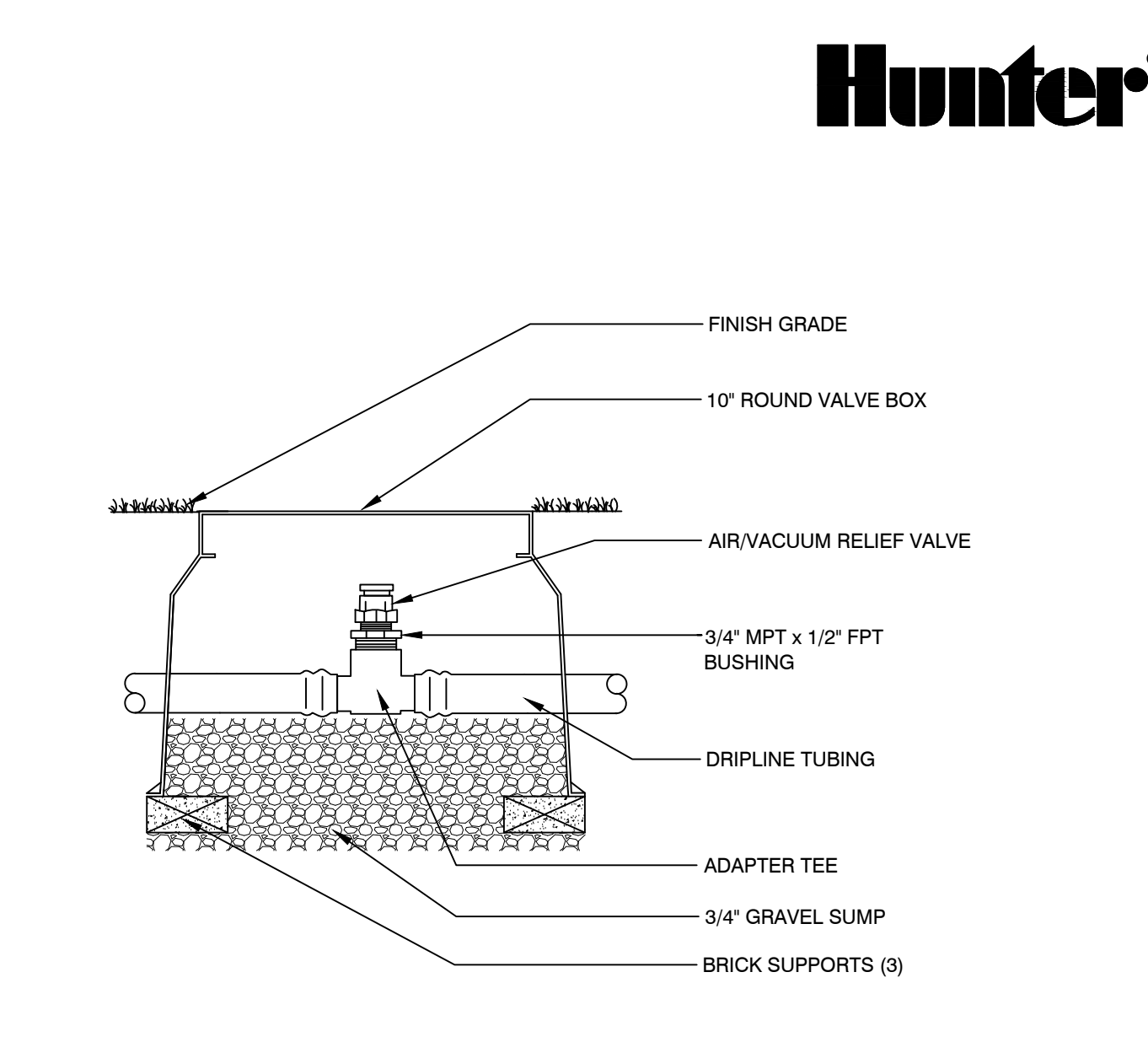
8 IRRIGATION BUBBLER W/ LAYOUT
3/4" = 1'-0"

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9 IRRIGATION BUBBLER (2) W/ LAYOUT
3/4" = 1'-0"

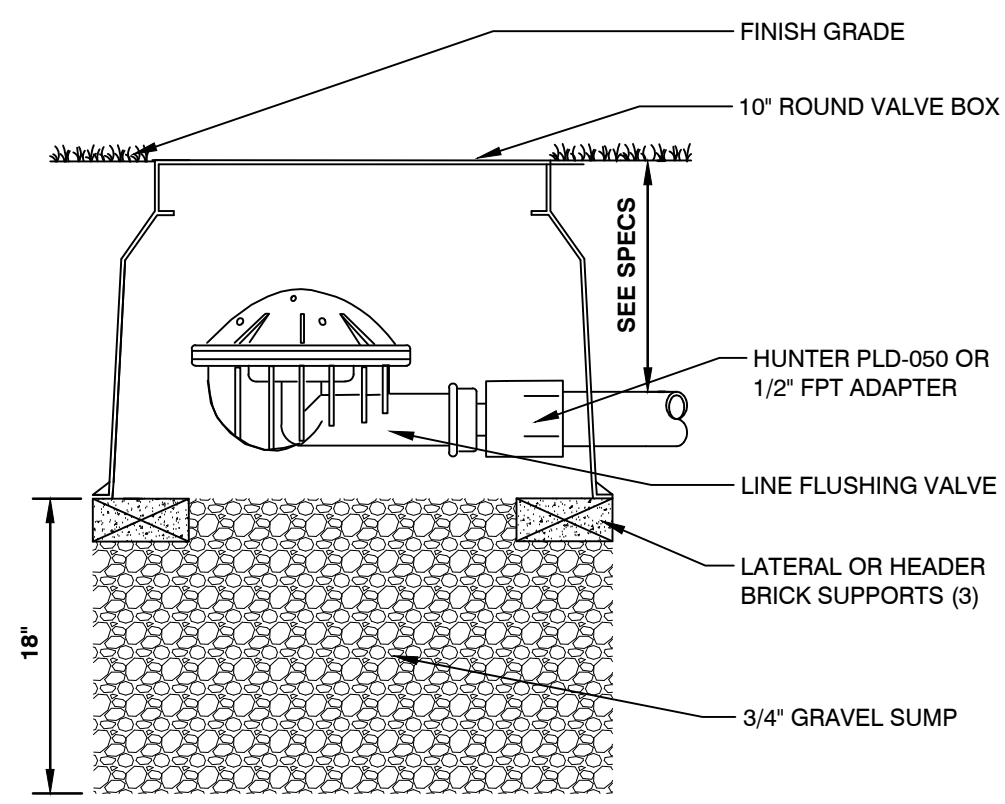
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10 AIR RELIEF TUBING
1 1/2" = 1'-0"

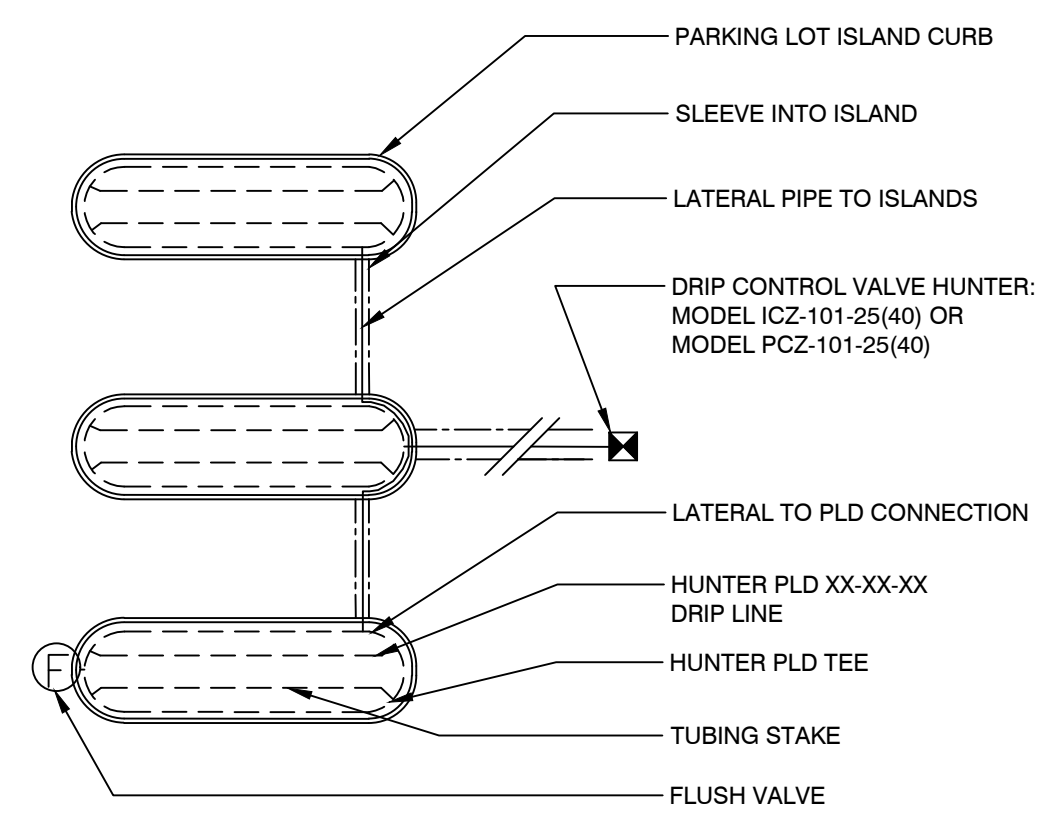
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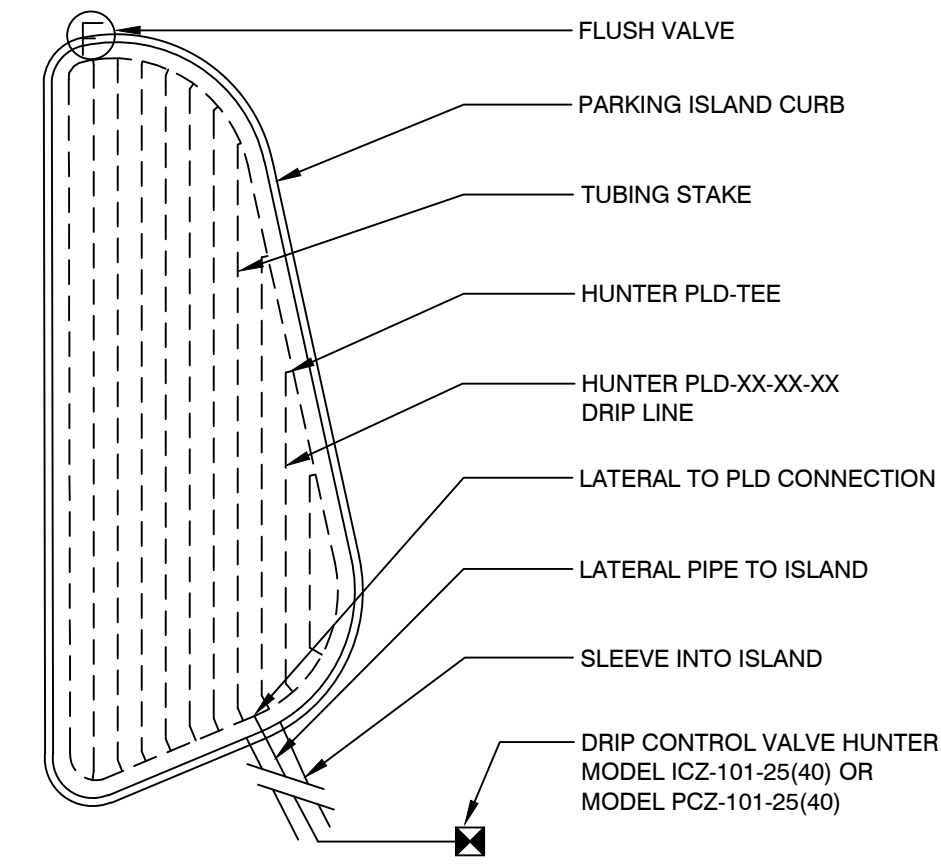
1 FLUSH VALVE AUTO
 1 1/2" = 1'-0" FX-IR-HUNT-DREQ-03

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2 PARKING LOT MULTIPLE ISLANDS
 NOT TO SCALE FX-IR-HUNT-MICR-15

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3 IRREGULAR ISLAND B
 1" = 1'-0" FX-IR-HUNT-MICR-18

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SEAL (MARSH C. KRIPLEN-LA6667007)

IRRIGATION DETAILS	
DATE	ISSUE
06/01/2021	PERMIT SET

IR903



KEYPLAN

10	11	12
13	14	15

PERMIT SET ONLY
NOT FOR CONSTRUCTION

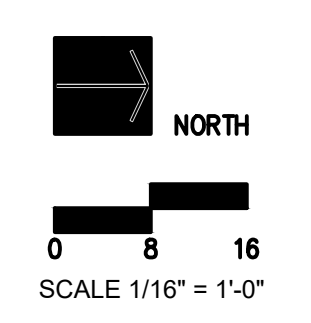
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8601 W. SUNRISE REDEVELOPMENT
8601 SUNRISE BOULEVARD PLANTATION, FLORIDA

SEAL (MARSH C. KRIPLEN-LA6667007)

IRRIGATION PLAN

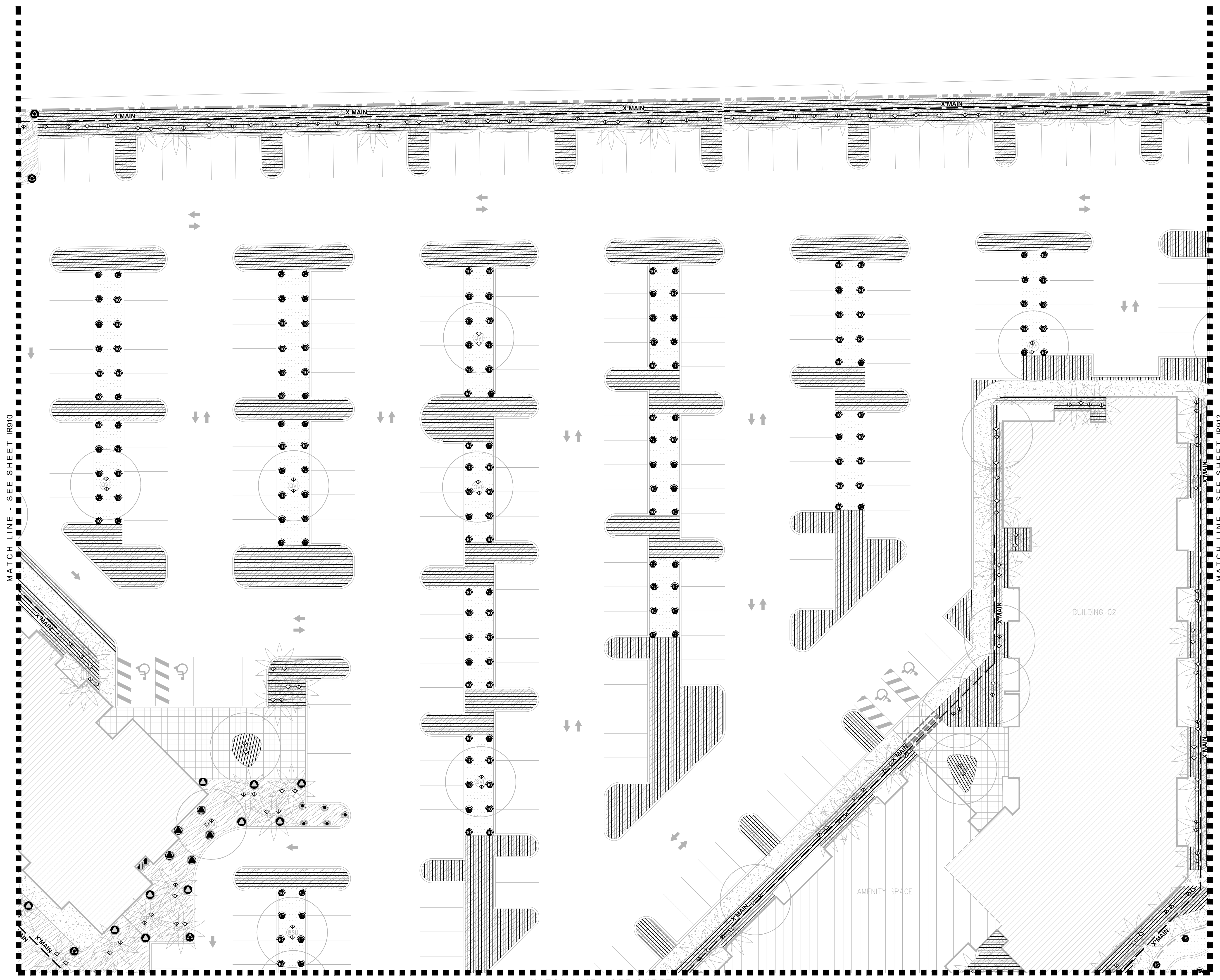
DATE	ISSUE
06/01/2021	PERMIT SET



811 TWO DAYS BEFORE YOU DIG
CALL TOLL FREE
1.800.422.4133
UNDERGROUND SERVICE ALERT

IR910

MATCH LINE - SEE SHEET IR913



KEYPLAN

10	11	12
13	14	15

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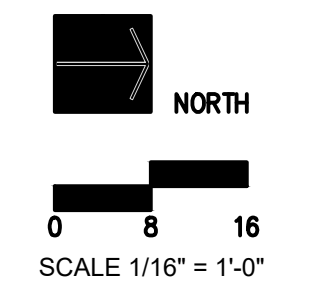
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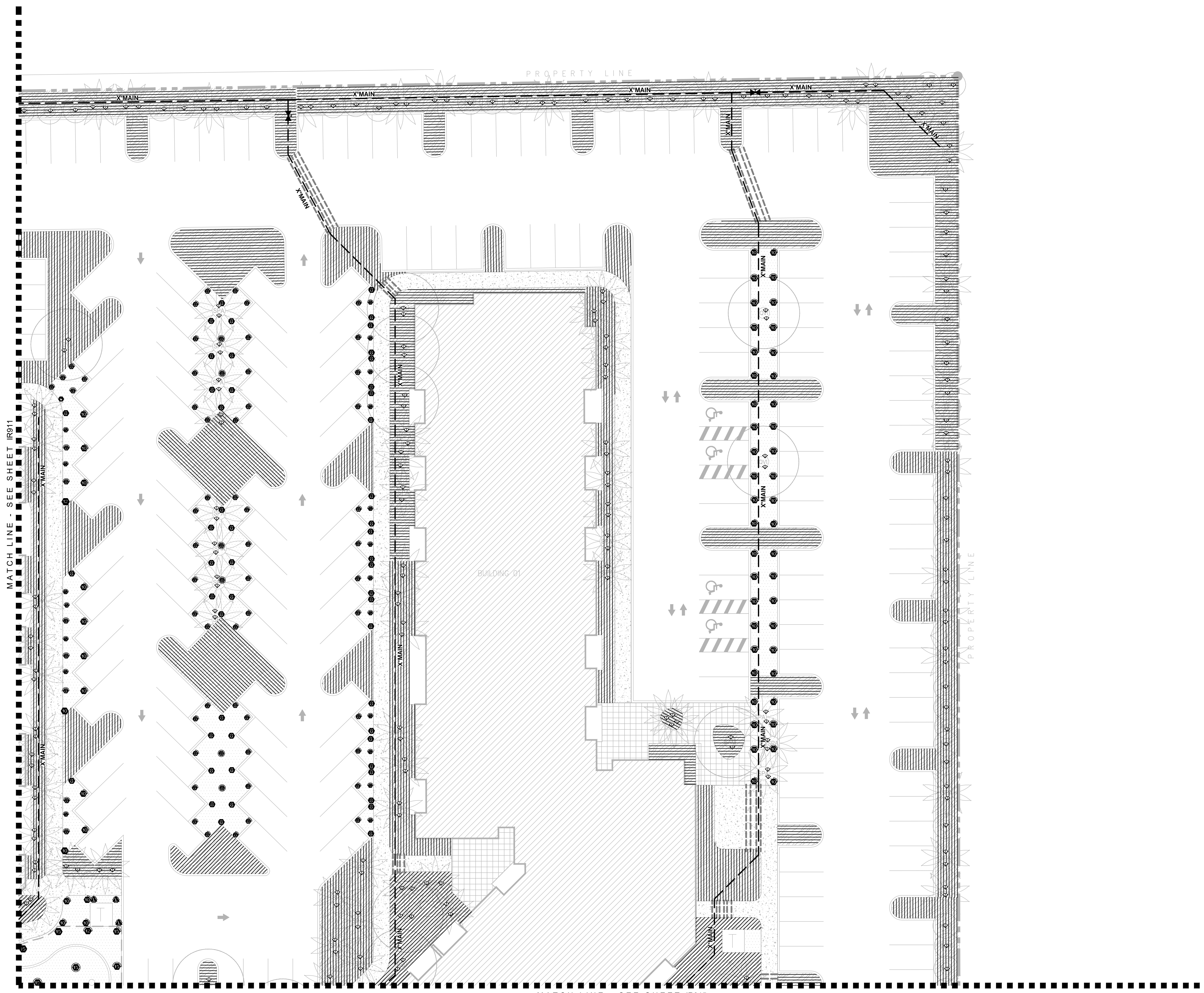
IRRIGATION PLAN

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IR911



MATCH LINE - SEE SHEET IR911

MATCH LINE - SEE SHEET IR915

KEYPLAN

10	11	12
13	14	15

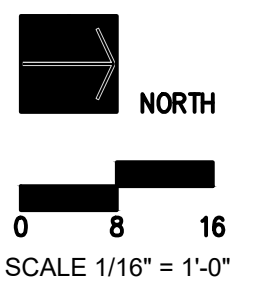
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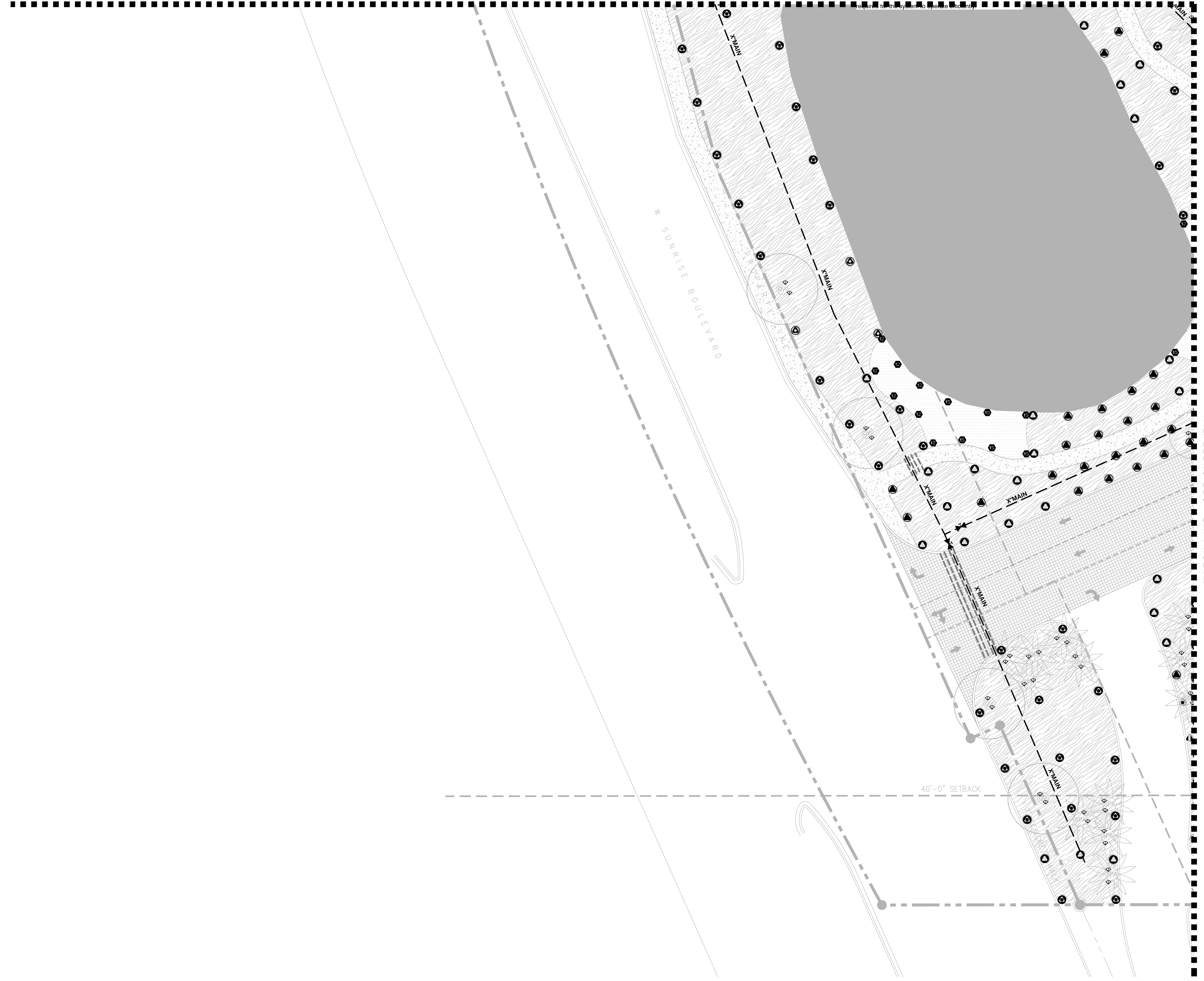
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DATE	ISSUE
06/01/2021	PERMIT SET



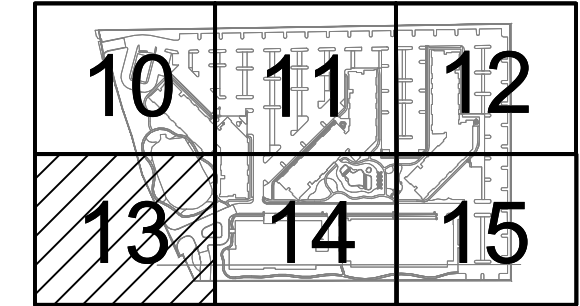
SCALE 1/16" = 1'-0"
IR912

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MATCH LINE - SEE SHEET IR910



KEYPLAN



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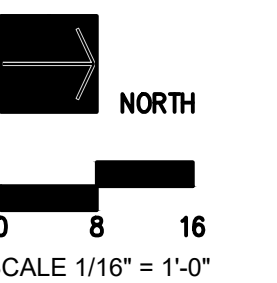
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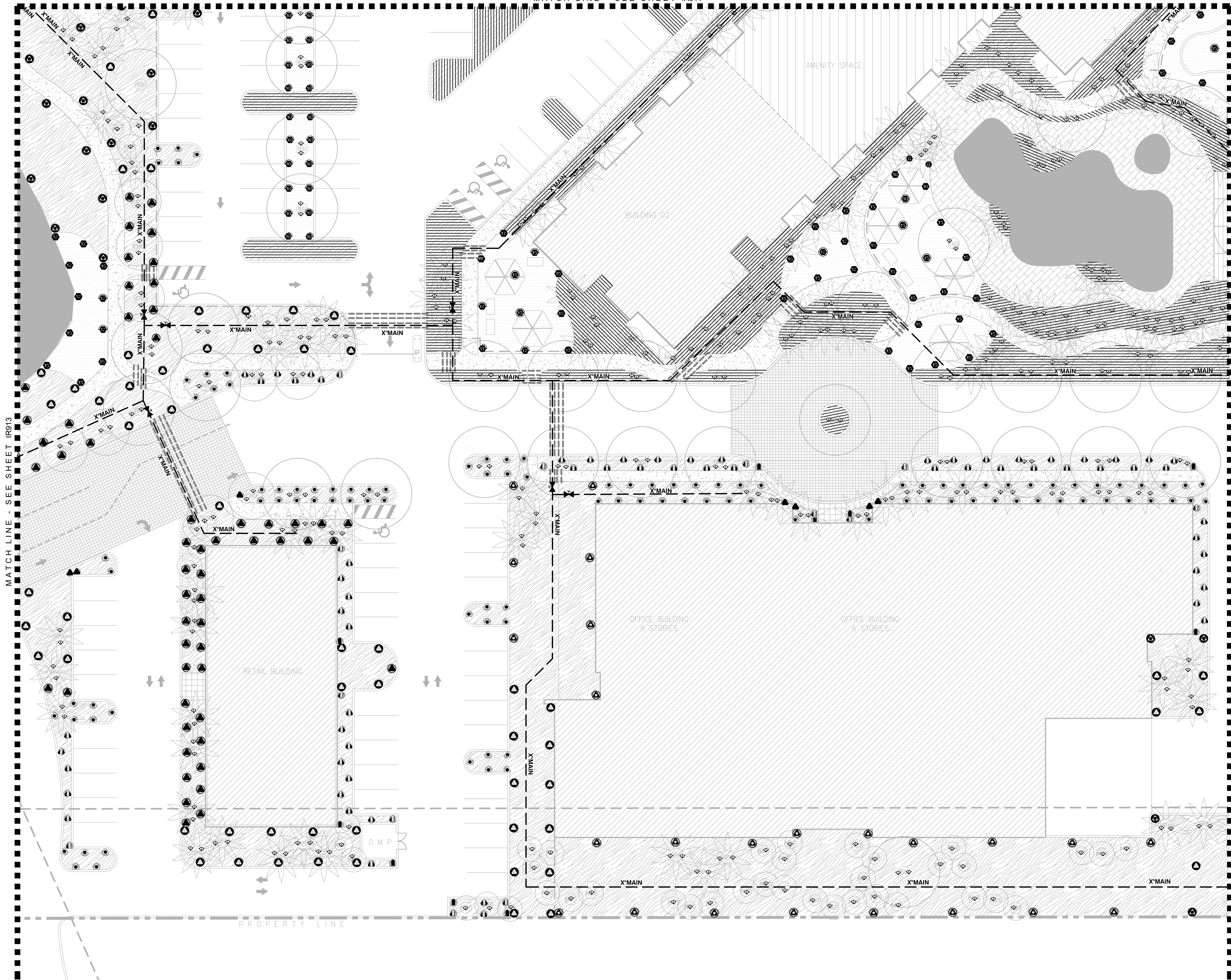


SCALE 1/16" = 1'-0"
IR913

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10	11	12
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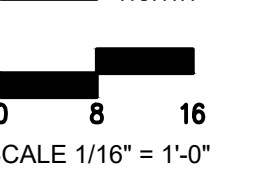
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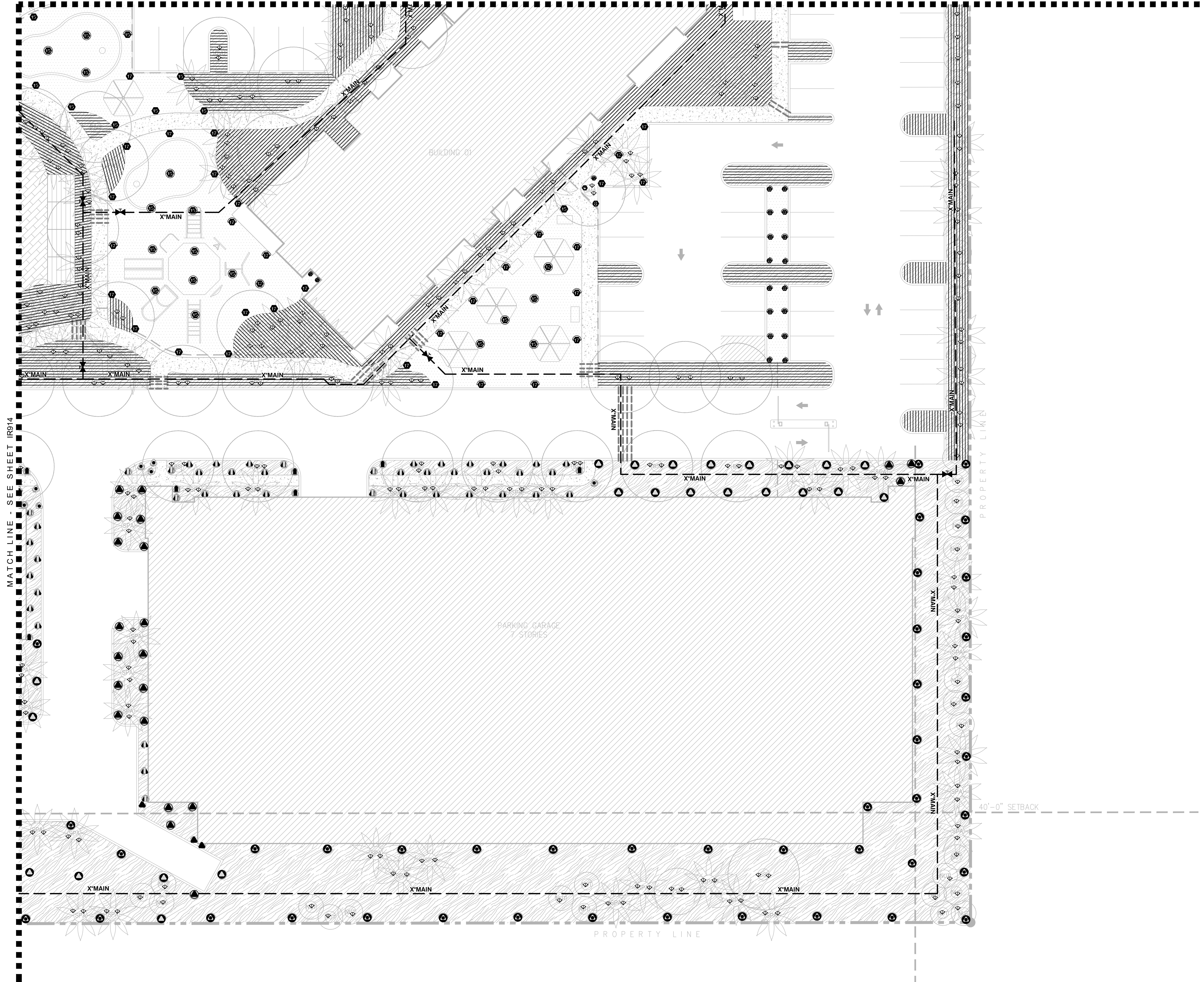
NORTH



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IR914

MATCH LINE - SEE SHEET IR912



KEYPLAN

10	11	12
13	14	15

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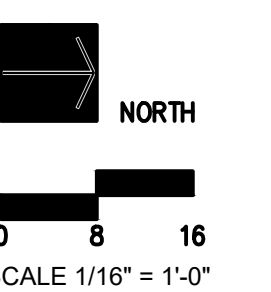
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IR915

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