CITY OF RENO

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
CONTRACT No. ARPA-PW-9, PWP No. WA-2024-364

CITY COUNCIL

MAYOR..... HILLARY SCHIEVE
WARD ONE..... JENNY BREKHUS
WARD TWO..... NAOMI DUERR
WARD THREE..... MIGUEL MARTINEZ
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WARD FIVE..... KATHLEEN TAYLOR
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CITY MANAGER..... DOUG THORNLEY

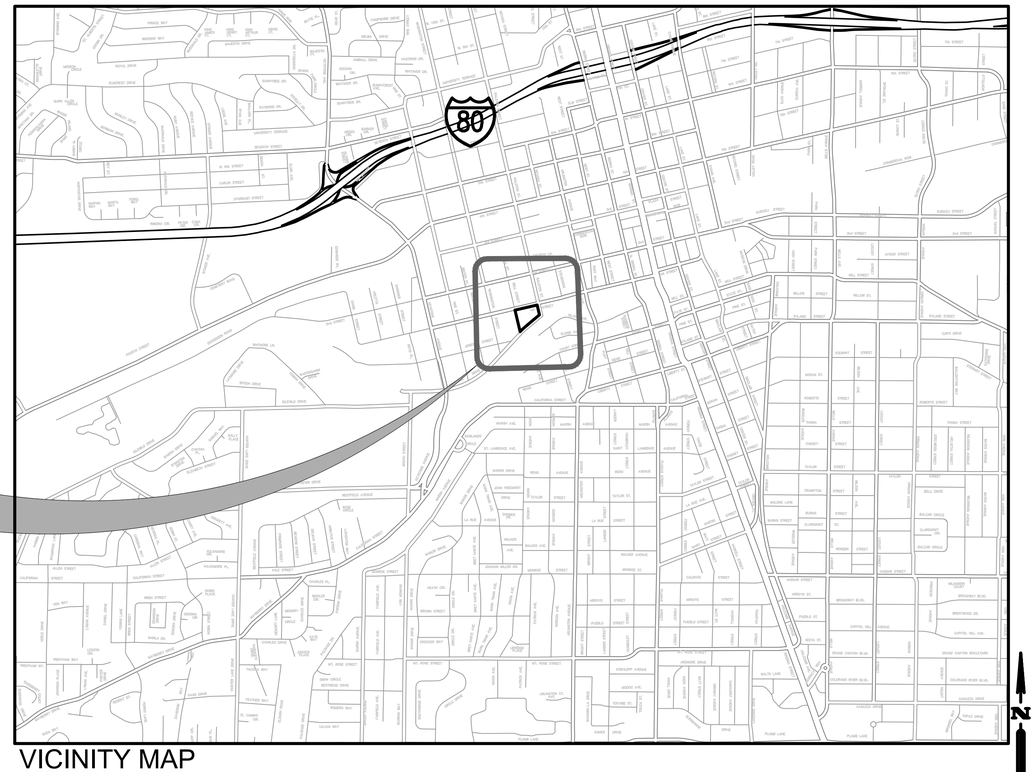
PUBLIC WORKS

June 5, 2024
KERRIE KOSKI, P.E.
DIRECTOR OF PUBLIC WORKS

LEAR THEATER,
528 W 1st ST, RENO, NV

The scope of work includes landscape and site improvements surrounding Lear Theater, a historic structure. The structure itself is not included in this scope of work and shall be protected during construction work.

All work to follow recommendations in the Secretary of the Interior's Standards for the Treatment of Historic Properties.



VICINITY MAP
SCALE: N.T.S.

SHEET INDEX

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6/4/24 BID SET

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CAPITAL PROJECTS
ONE EAST FIRST STREET, 8TH FLOOR
P.O. BOX 1900
RENO, NV 89505
PHONE (775) 334-2548

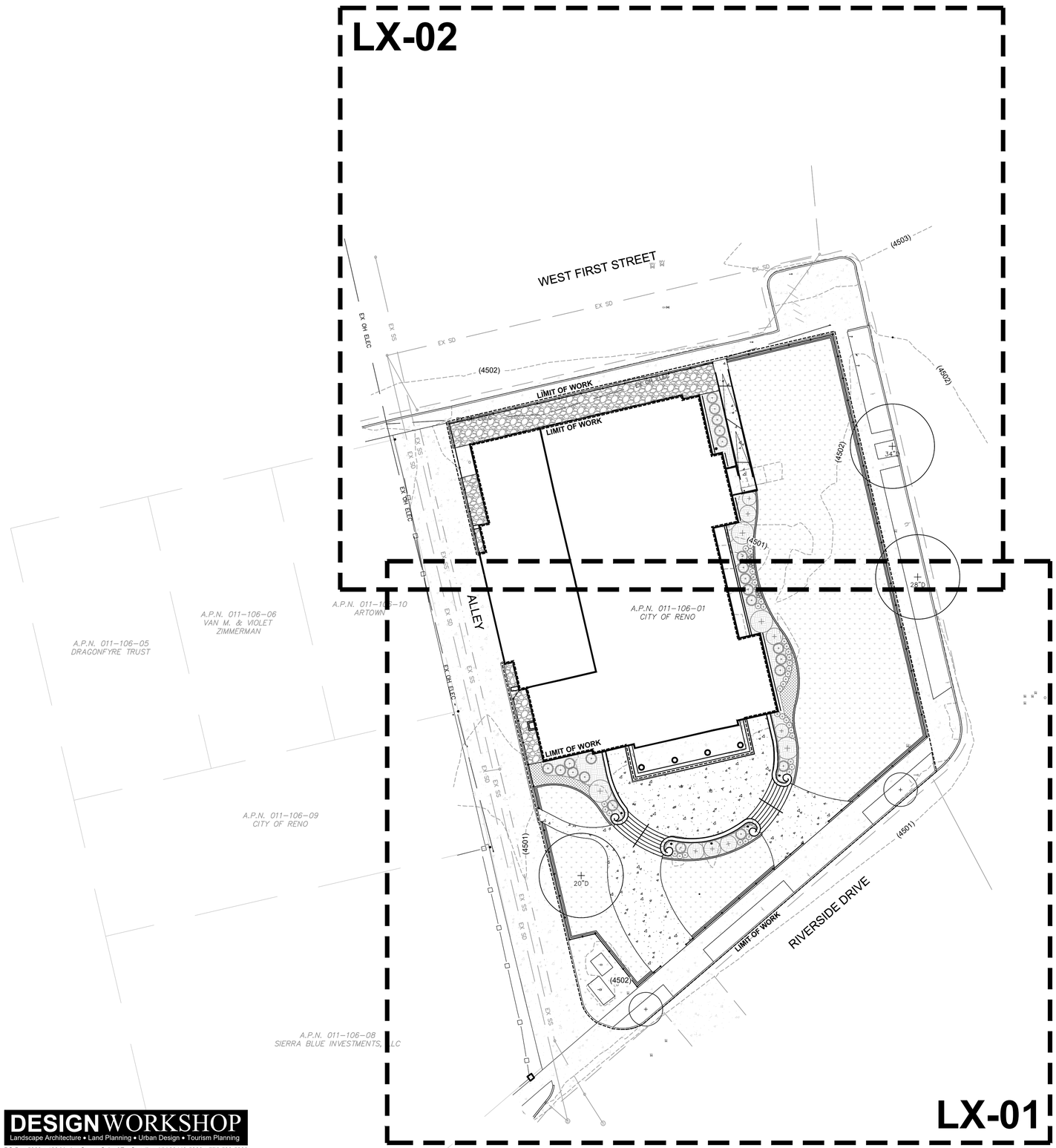
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

COVER SHEET

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L0-00



NORTH

0 10' 20' 40'

ORIGINAL SCALE: 1"=20'-00"

SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
6.2	Single Gate	2 / L7-04	
6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	

7.0 SITE LIGHTING

Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings

GENERAL NOTES

1. Lumos & Associates prepared the survey for this project. It has been reformatted for use in and for preparation of these documents. Contractor shall obtain officially signed copy from Lumos & Associates (950 Sandhill Road, Suite 100, Reno, NV 89521, phone - 775-827-6111) and become familiar with it, the existing conditions, site context, bearings and elevations prior to construction. All discrepancies should be brought to the attention of the Landscape Architect for immediate resolution. Landscape Architect is not responsible for errors or omissions associated with preparation or documentation of survey.
2. Contractor is responsible for determining means and methods for construction. These drawings may indicate a limit of proposed improvements, limits of site demolition, etc. for delineation of expected extents of disturbance, however, final impact shall be determined in the field. Should limits of disturbance exceed boundaries defined in drawings, Contractor shall contact Landscape Architect for resolution.
3. Contractor is responsible for repairing all work disturbed by construction outside of limit lines defined on drawings or through his/her means and methods and General Conditions to a condition acceptable to the owner at no additional cost.
4. Contractor is responsible for protecting all existing conditions, improvements, utilities, etc. to remain. Any damages shall be repaired to a condition acceptable to the owner at no additional cost.
5. Contractor is responsible for maintaining a complete up-to-date set of Drawings and Specifications at the construction site and ensuring the documents are readily available for review by the Landscape Architect and governing agency.
6. The Drawings and Specifications are complementary to one another and implied to correspond withone another. Any discrepancies should be brought to the attention of the Landscape Architect for immediate resolution.
7. Contact the local underground utility service locator for utility locates and identification prior to commencing work and maintain in field throughout construction unless indicated or directed otherwise.
8. Verify plant protection, stormwater pollution protection plan (SWPPP), existing improvement to remain, and Contractor site control measures are in place prior to commencing with construction. Do not proceed with construction if not in compliance and maintained throughout. Coordinate with Owner's Representative and authorities having jurisdiction as required.

TABLE OF ABBREVIATIONS

B&B	BALLED AND BURLAPPED	N	NORTH
BR	BOTTOM OF RAMP	OC	ON CENTER
BS	BOTTOM OF STEP	OCEW	ON CENTER EACH WAY
BW	BOTTOM OF WALL	PA	PLANTING AREA
CAL	CALIPER	QTY	QUANTITY
CIP	CAST IN PLACE	R	RADIUS
E	EAST	SF	SQUARE FOOT (FEET)
EA	EACH	TC	TOP OF CURB
EQ	EQUAL	TOC	TOP OF CONCRETE
FG	FINISHED GRADE	TR	TOP OF RAMP
FS	FINISHED SURFACE	TS	TOP OF STEP
FT	FOOT (FEET)	TW	TOP OF WALL
MAX	MAXIMUM	TYP	TYPICAL
MIN	MINIMUM	@	AT

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MILESTONE

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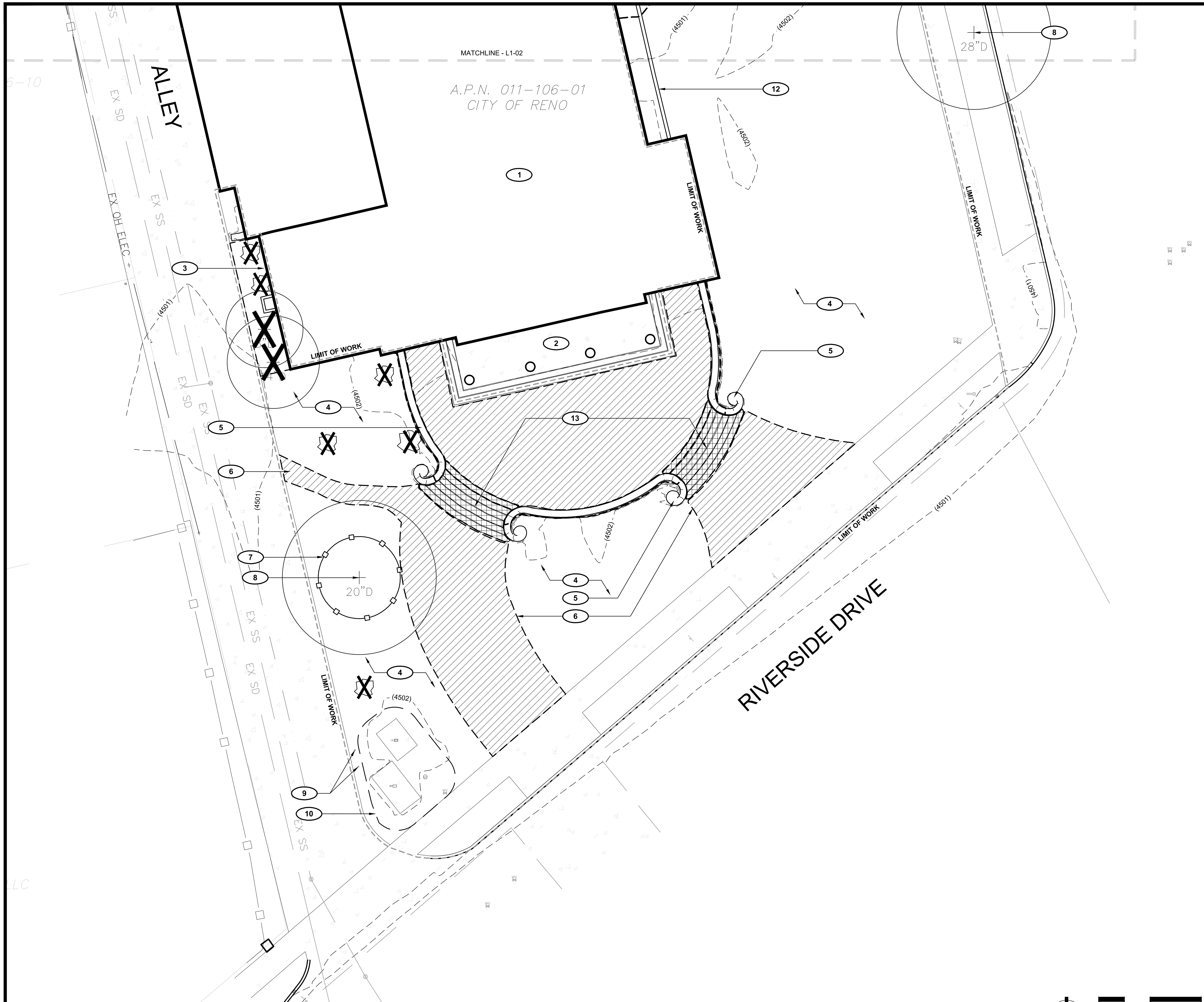
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE KEY PLAN AND GENERAL INFORMATION

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L0-03



NORTH

0 5' 10' 20'

ORIGINAL SCALE: 1"=10'-00"

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SITE DEMOLITION AND PROTECTION REFERENCE NOTES

1. EXISTING HISTORIC BUILDING. PROTECT-IN-PLACE.
2. EXISTING CONCRETE LANDING AND STAIRS TO REMAIN. PROTECT-IN-PLACE.
3. EXISTING VEGETATION ATTACHED TO STRUCTURE ALONG EDGE OF BUILDING TO BE REMOVED.
4. EXISTING LANDSCAPE AREA TO BE DEMOLISHED IN PREPARATION FOR NEW LANDSCAPING.
5. EXISTING WALLS AND PLANTERS TO BE PROTECTED IN PLACE.
6. EXISTING CONCRETE AND DEBRIS TO BE DEMOLISHED AND DISPOSED IN PREPARATION FOR NEW CONCRETE.
7. PLANT PROTECTION FENCING (TYP).
8. EXISTING TREE TO REMAIN. PROTECT-IN-PLACE (TYP).
9. EXISTING BOLLARDS TO REMAIN. PROTECT-IN-PLACE (TYP).
10. EXISTING UTILITIES TO REMAIN. PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
11. EXISTING CONCRETE STEPS TO BE DEMOLISHED AND DISPOSED.
12. EXISTING RETAINING WALL AND RAILING TO REMAIN. PROTECT-IN-PLACE.
13. EXISTING CONCRETE RAMP TO BE REMOVED.
14. EXISTING CONCRETE LANDING TO REMAIN. PROTECT-IN-PLACE.
15. EXISTING UTILITY POLE TO REMAIN. PROTECT-IN-PLACE.

PLANT PROTECTION AND REMOVAL NOTES

1. Plants shall be removed and disposed unless designated to remain and shall be protected as indicated. No disturbance is allowed within the dripline of the plants unless indicated or approved otherwise. Protect plants within the plant protection zone as indicated.
2. Remove plants and boulders as indicated on the plans to their full depth, including stumps and roots, unless noted otherwise. Fill depressions to meet finish grade with suitable fill, compact and provide positive drainage unless indicated otherwise.
3. Remove demolished materials and legally dispose of offsite unless indicated otherwise. Disposal by burning and/or burying on-site is prohibited unless approved otherwise.
4. Prune roots and limbs/branches only as directed by City of Reno Urban Forester unless indicated otherwise.
5. The location of existing utilities as shown on the plans may vary in relation to actual existing conditions. Additional utilities not shown on the drawings may exist. Verify in the field the data shown and bring any discrepancies to the attention of the Landscape Architect before starting work.

SITE DEMOLITION NOTES

1. Where demolition activity is required within protection fencing coordinate with Landscape Architect prior to construction for direction. Hand excavation and plant care procedures may be required.
2. Items and site structures shall remain unless designated for removal. Do not disturb. Protect-in-place. The Contractor is responsible for damage to existing items and site structures caused by any person, vehicle, equipment, tool or other related to the execution of the Contract at no additional cost to the owner.
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PLANT PROTECTION AND REMOVAL AND SITE DEMOLITION LEGEND

- EXISTING TREE TO REMAIN. DO NOT DISTURB. PROTECT IN PLACE.
- EXISTING TREE TO BE REMOVED.
- EXISTING BOULDER TO BE REMOVED.
- PLANT PROTECTION FENCE.
- EXISTING CONCRETE TO BE REMOVED.
- EXISTING CONCRETE STEPS TO BE REMOVED.

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6/4/24 BID SET

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PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION

528 W 1ST ST, RENO, NV, 89503

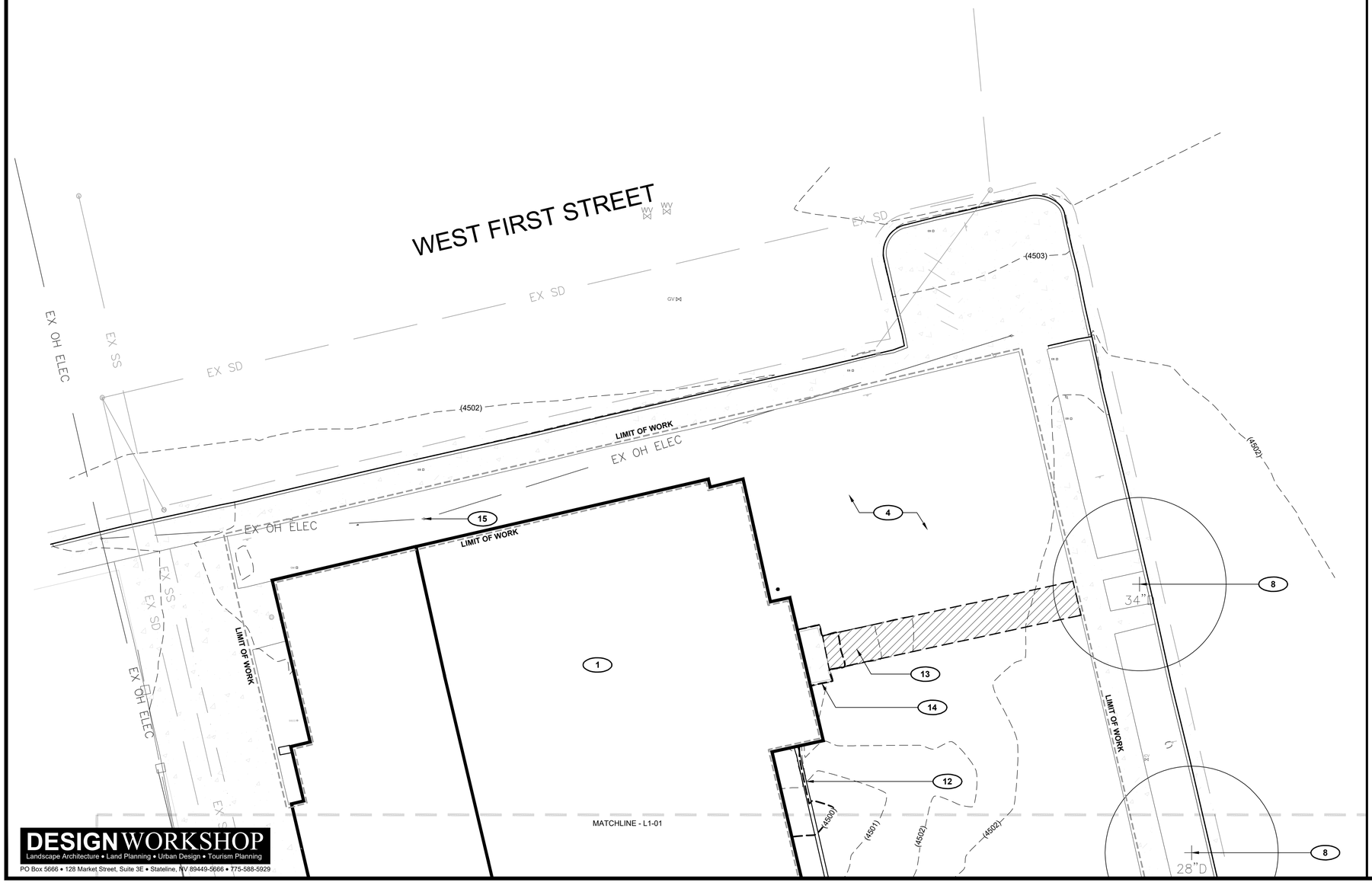
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

PLANT PROTECTION AND SITE DEMOLITION PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING

L1-01



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- PLANT PROTECTION FENCE.
- EXISTING CONCRETE TO BE REMOVED.
- EXISTING CONCRETE STEPS TO BE REMOVED.

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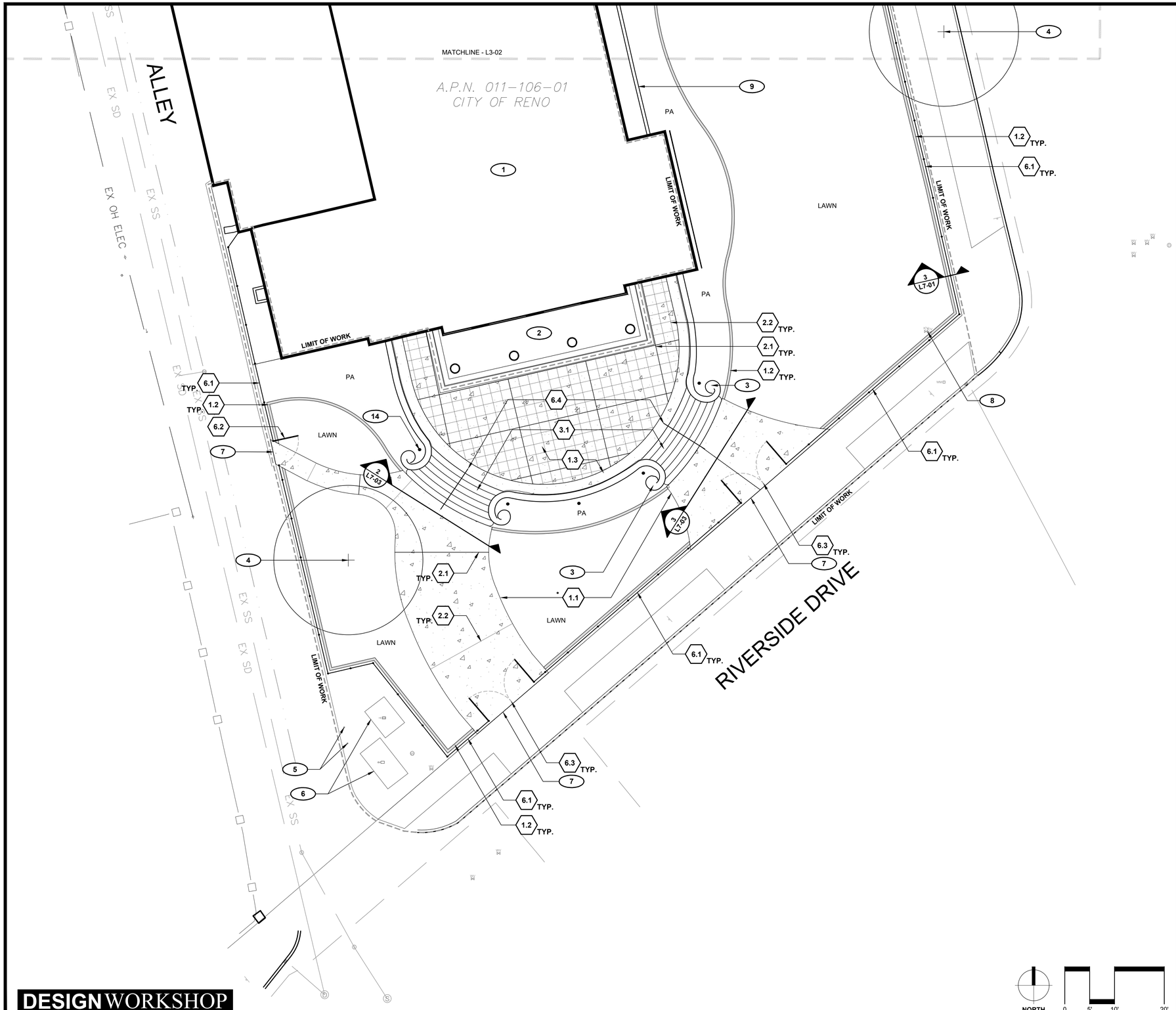
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

PLANT PROTECTION AND SITE DEMOLITION PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L1-02



SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
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6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	
7.0	**SITE LIGHTING**		
	Refer to Electrical Series Drawings		
8.0	**DRAINAGE**		
	Refer to Irrigation Series Drawings		
9.0	**PLANTING AND LANDSCAPE**		
	Refer to Tree and Shrub Planting Series Drawings		

SITE MATERIAL REFERENCE NOTES

PA	PLANTING AREA - SEE L8-01 AND L8-02.
LAWN	LAWN AREA - SEE L8-01 AND L8-02.
1	EXISTING HISTORIC BUILDING. PROTECT-IN-PLACE.
2	EXISTING CONCRETE LANDING AND STAIRS TO REMAIN. PROTECT-IN-PLACE.
3	EXISTING WALLS AND PLANTERS TO REMAIN. PROTECT-IN-PLACE AND REPAIR AS NEEDED.
4	EXISTING TREE TO REMAIN. PROTECT-IN-PLACE.
5	EXISTING BOLLARDS TO REMAIN. PROTECT-IN-PLACE (TYP).
6	EXISTING UTILITIES TO REMAIN. PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
7	TIE INTO EXISTING SIDEWALK SMOOTHLY AND EVENLY.
8	PROPOSED BACKFLOW PREVENTER. REFER TO IRRIGATION DRAWINGS.
9	EXISTING RETAINING WALL AND RAILING TO REMAIN. PROTECT-IN-PLACE.
10	PROPOSED IRRIGATION CONTROLLER. REFER TO IRRIGATION DRAWINGS.
11	EXISTING CONCRETE LANDING TO REMAIN. PROTECT-IN-PLACE.
12	EXISTING UTILITY POLE. DO NOT DISTURB.
13	PROPOSED ADA RAMP TO MEET EXISTING LANDING. TIE INTO SMOOTHLY AND EVENLY.
14	PROPOSED LIGHT FIXTURE (TYP). REFER TO ELECTRICAL SERIES DRAWINGS.

NORTH

0 5' 10' 20'
ORIGINAL SCALE: 1"=10'-00"

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SITE MATERIALS PLAN

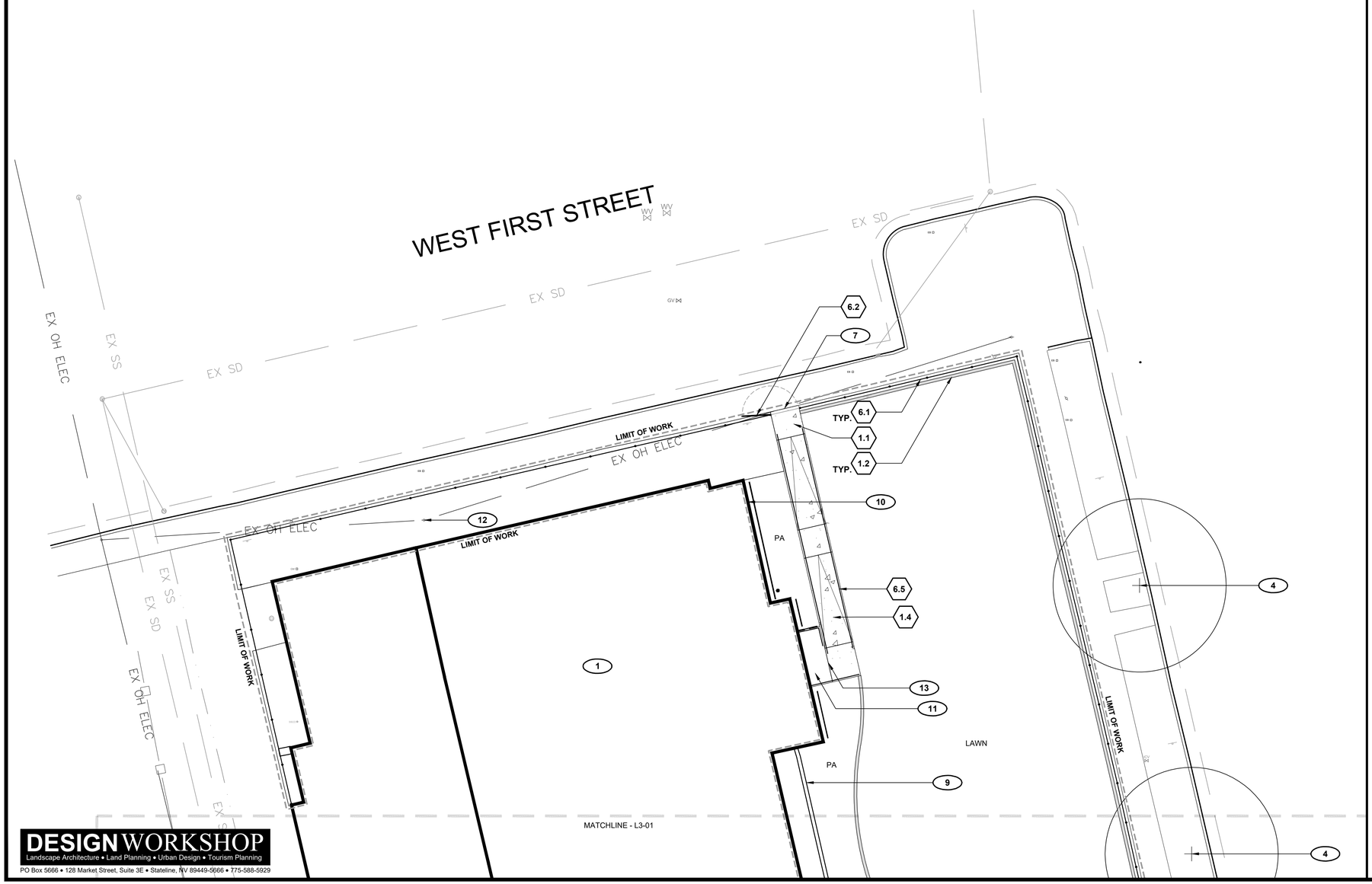
PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L3-01

NORTH

0 5' 10' 20'

ORIGINAL SCALE: 1"=10'-00"



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SITE MATERIAL REFERENCE NOTES

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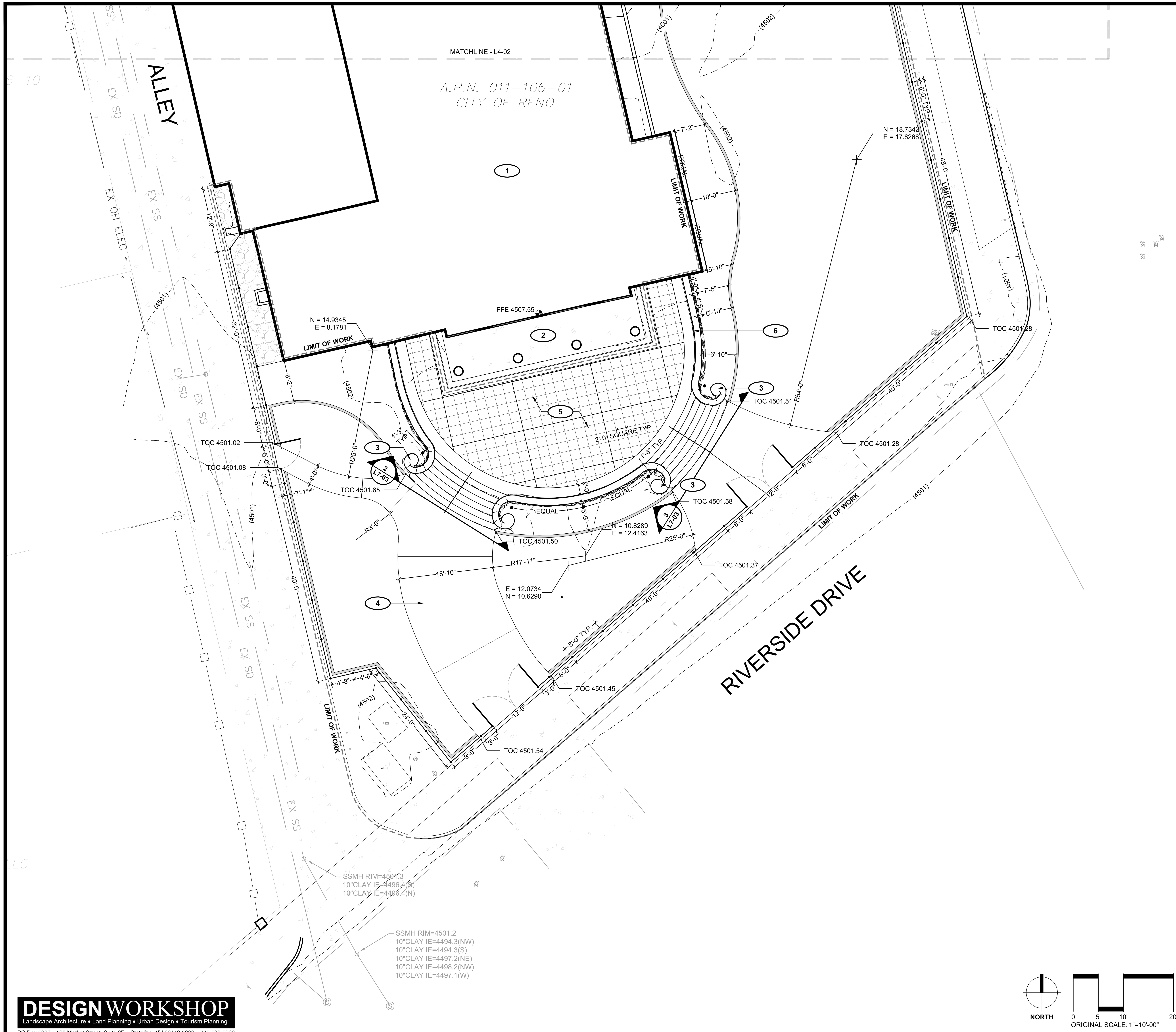
SITE MATERIALS PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L3-02



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	6.2	Single Gate	2 / L7-04	
	6.3	Double Gate	3 / L7-04	
	6.4	Stair Handrail	1 / L7-05	
	6.5	Ramp Handrail	2 / L7-05	
7.0	**SITE LIGHTING**			
	Refer to Electrical Series Drawings			
8.0	**DRAINAGE**			
	Refer to Irrigation Series Drawings			
9.0	**PLANTING AND LANDSCAPE**			
	Refer to Tree and Shrub Planting Series Drawings			

SITE GRADING AND LAYOUT REFERENCE NOTES

1. EXISTING HISTORIC BUILDING. PROTECT-IN-PLACE.
2. EXISTING CONCRETE LANDING AND STAIRS TO REMAIN. PROTECT-IN-PLACE.
3. EXISTING WALLS AND PLANTERS TO REMAIN. PROTECT-IN-PLACE.
4. GRADE CONCRETE PAVEMENT TO MATCH EXISTING CONDITIONS.
5. GRADE CONCRETE LANDING AND STEPS TO MATCH EXISTING CONDITIONS.
6. ALIGN PAVEMENT EDGE TO EXISTING RETAINING WALL.
7. TIE INTO EXISTING LANDING SMOOTHLY AND EVENLY.

SITE LAYOUT NOTES

1. Layout and dimensions provided on Drawings are based on Traditional Dimensioning System.
2. Verify utility locates, plant protection and stormwater pollution protection plan (SWPPP) measures are in place prior to commencing construction. Do not proceed with construction if not in compliance and maintained throughout.
3. Layout and verify dimensions prior to construction. Field stake all proposed improvements for review and approval by Landscape Architect unless indicated otherwise. Bring discrepancies to the attention of the Landscape Architect for final direction. Landscape Architect reserves right to make field adjustments and layout decisions in field as necessary at no additional cost to owner.
4. Request inspection of field staking by Landscape Architect a minimum of 24 hours in advance of performing any work unless indicated otherwise.
5. Written dimensions take precedence over scale. Bring discrepancies to the attention of the Landscape Architect for final direction.
6. Measurements are to face of building, wall or the fixed site improvement. Dimensions to center lines is indicated.
7. Provide expansion joints where concrete flatwork meets vertical structures such as walls, curbs, steps and building elements.
8. Expansion joints in walkways shall be located at (30'-0") on center maximum unless indicated otherwise..
9. All stairway intermediate handrails shall extend 12” beyond top riser, 18” beyond bottom riser, and follow center of steps unless indicated otherwise.
10. All accessible ramps shall be 5'-0” wide unless designated otherwise.
11. All accessible ramp handrails shall extend 12" beyond top of ramp and 12" beyond bottom of ramp, and be set 2” clear from edge of paving unless designated otherwise.
12. All perimeter fencing shall be installed 6” inside property line unless designated otherwise.

SITE GRADING AND DRAINAGE NOTES

1. Protect existing utilities to remain. Contractor is responsible for all damage to utilities encountered during construction and shall repair at no additional cost to owner.
2. Layout and field stake all proposed landscape grading and drainage improvements for review and approval by Landscape Architect prior to construction unless indicated or directed otherwise.
3. Request inspection of field staking by Landscape Architect a minimum of 24 hours in advance of performing any work unless indicated otherwise.
4. Landscape spot elevations shall be as indicated and defined per Abbreviations List. Bring any discrepancies to attention of Landscape Architect for clarification.
5. Provide a minimum of 1% (1:100) slope and a maximum of 5% (1:20) slope on all proposed hardscape and minimum of 2% (1:50) slope and maximum of 33% (1:3) slope on all proposed softscape unless indicated otherwise.
6. All surfaces shall be flush and meet smoothly and evenly unless indicated otherwise.
7. Provide positive drainage and pitch to drain.
8. Refer to Irrigation drawings for all design calculations, details, subsurface piping, overflows/ outfalls, storage basins, erosion control, stormwater pollution protection plans (SWPPP) and connections to site landscape and hardscape drains indicated in drawings unless designated otherwise.

SITE GRADING LEGEND

— — (800) — —	EXISTING MAJOR CONTOUR
—— 800 ——	PROPOSED MAJOR CONTOUR
— — (801) — —	EXISTING MINOR CONTOUR
—— 801 ——	PROPOSED MINOR CONTOUR
+ XX.XX	SPOT GRADE WITH ABBREVIATION INDICATION (EG., FG=FINISH GRADE)
N = X.XX E = X.XX	NORTHING AND EASTING COORDINATE POINT

MILESTONE

6/4/24	BID SET

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RENO, NV 89505
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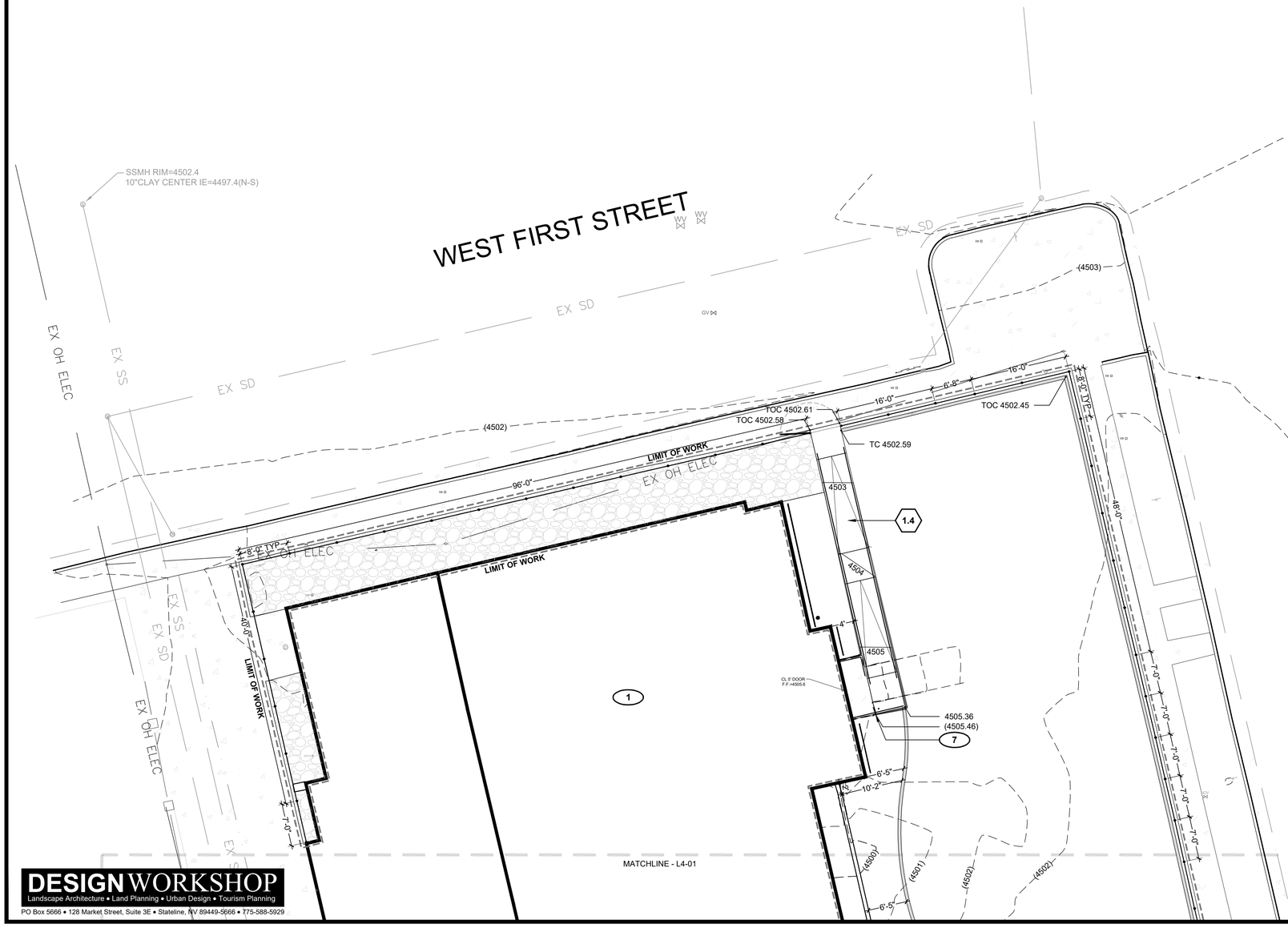
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

LAYOUT AND GRADING PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L4-01



SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
6.2	Single Gate	2 / L7-04	
6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	

7.0 SITE LIGHTING

Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings

SITE GRADING AND LAYOUT REFERENCE NOTES

1. EXISTING HISTORIC BUILDING. PROTECT-IN-PLACE.
2. EXISTING CONCRETE LANDING AND STAIRS TO REMAIN. PROTECT-IN-PLACE.
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4. GRADE CONCRETE PAVEMENT TO MATCH EXISTING CONDITIONS.
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7. TIE INTO EXISTING LANDING SMOOTHLY AND EVENLY.

SITE LAYOUT NOTES

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10. All accessible ramps shall be 5'-0" wide unless designated otherwise.
11. All accessible ramp handrails shall extend 12" beyond top of ramp and 12" beyond bottom of ramp, and be set 2" clear from edge of paving unless designated otherwise.
12. All perimeter fencing shall be installed 6" inside property line unless designated otherwise.

SITE GRADING AND DRAINAGE NOTES

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7. Provide positive drainage and pitch to drain.
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SITE GRADING LEGEND

- (800) EXISTING MAJOR CONTOUR
- 800 PROPOSED MAJOR CONTOUR
- (801) EXISTING MINOR CONTOUR
- 801 PROPOSED MINOR CONTOUR
- XX.XX SPOT GRADE WITH ABBREVIATION INDICATION (EG., FG=FINISH GRADE)
- N = X.XX, E = X.XX NORTHING AND EASTING COORDINATE POINT

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MILESTONE

6/4/24	BID SET

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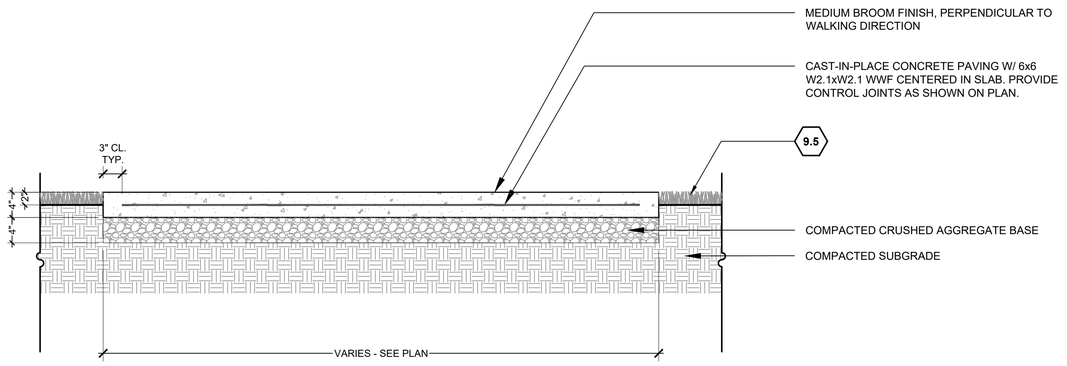
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

LAYOUT AND GRADING PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

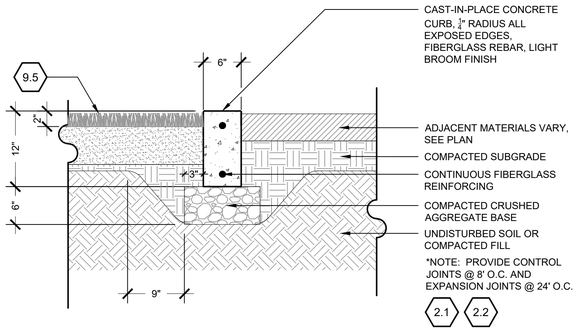
DRAWING
L4-02



1 CONCRETE PAVEMENT

1" = 1'-0"

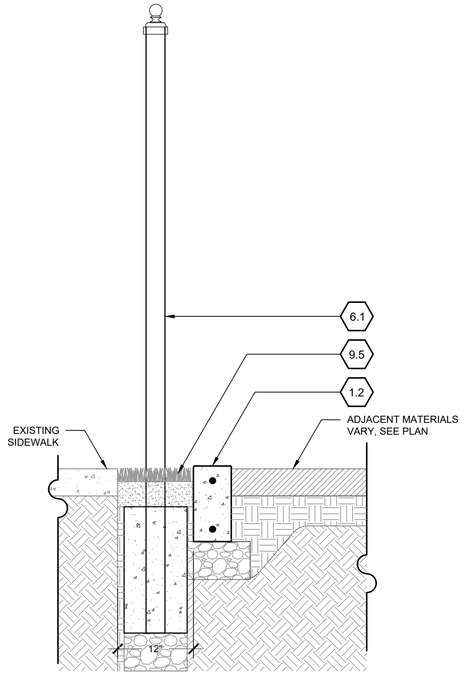
1.1



2 CONCRETE MOW BAND

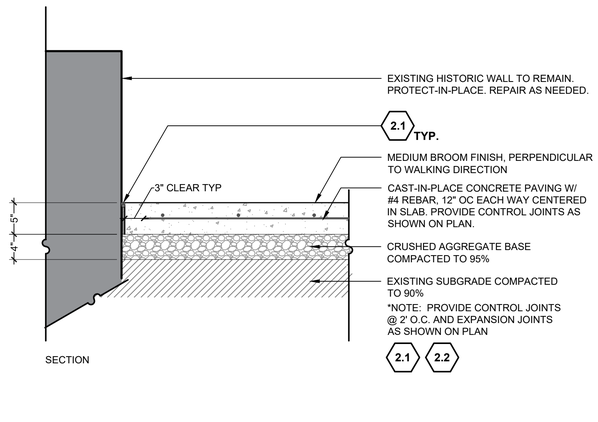
1" = 1'-0"

1.2



3 MOW BAND AT FENCE

1" = 1'-0"



4 CONCRETE LANDING

1" = 1'-0"

1.3

SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
6.2	Single Gate	2 / L7-04	
6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	

7.0 SITE LIGHTING

Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings

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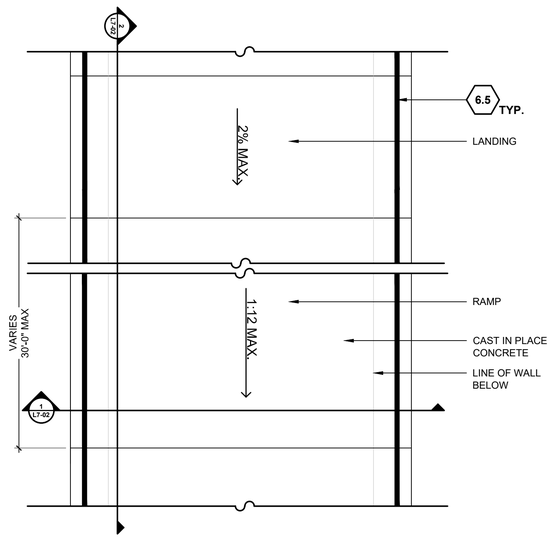
PLACEHOLDER FOR STAMP

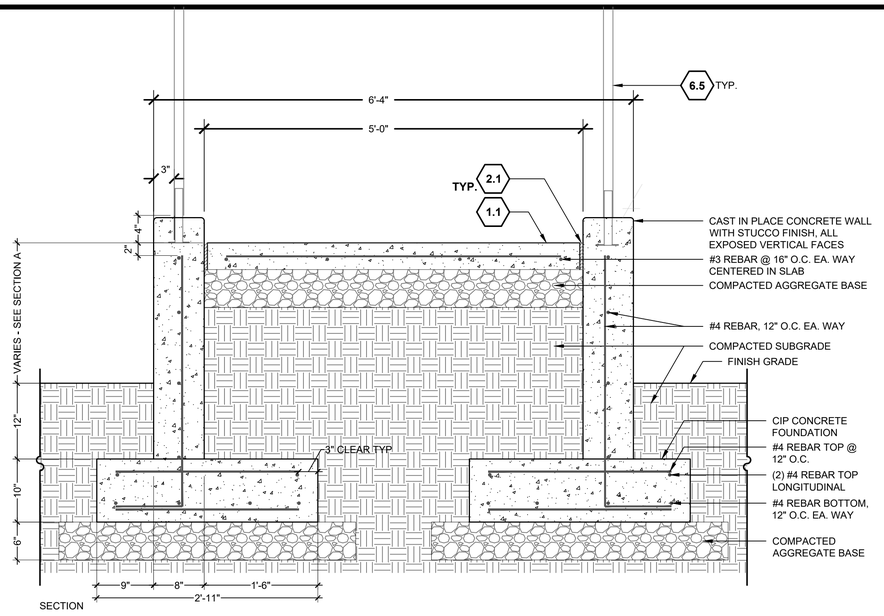
LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L7-01





1.4

1 CONCRETE RAMP

1" = 1'-0"

SITE KEYNOTES:

			DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**			
1.1	Concrete Pavement		1 / L7-01	
1.2	Concrete Mow Band		2 / L7-01	3 / L7-01
1.3	Concrete Landing		4 / L7-01	
1.4	Concrete Ramp		1 / L7-02	2 / L7-02
2.0	**JOINTING**			
2.1	Expansion Joint		3 / L7-02	
2.2	Control Joint		4 / L7-02	
3.0	**STEPS**			
3.1	Concrete Steps		1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**			
6.1	Wrought Iron Fence		1 / L7-04	
6.2	Single Gate		2 / L7-04	
6.3	Double Gate		3 / L7-04	
6.4	Stair Handrail		1 / L7-05	
6.5	Ramp Handrail		2 / L7-05	

7.0 SITE LIGHTING

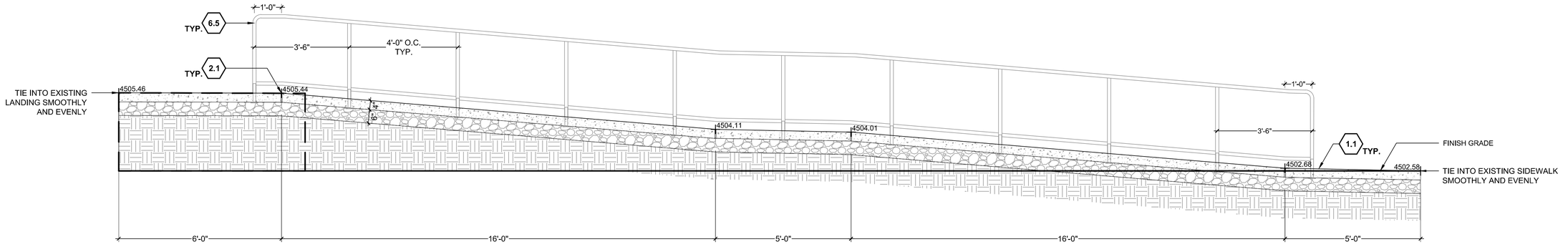
Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

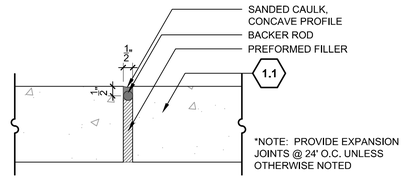
9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings



2 CONCRETE RAMP - SECTION A

1/2" = 1'-0"

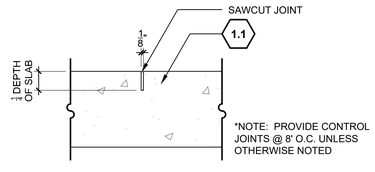


SECTION

3 EXPANSION JOINT

1/4" = 1'-0"

2.1



SECTION

4 CONTROL JOINT

1/4" = 1'-0"

2.2

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RENO, NV 89505
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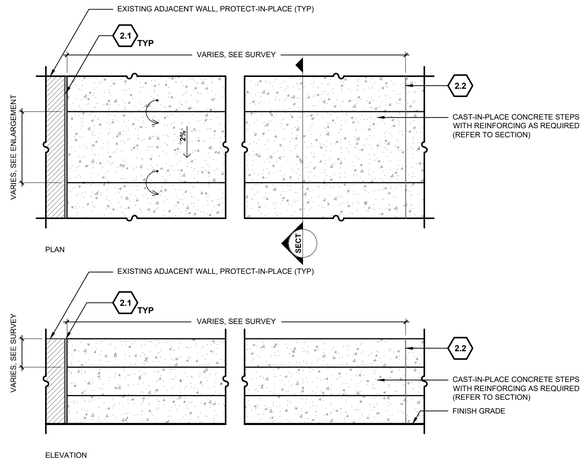
PLACEHOLDER FOR STAMP

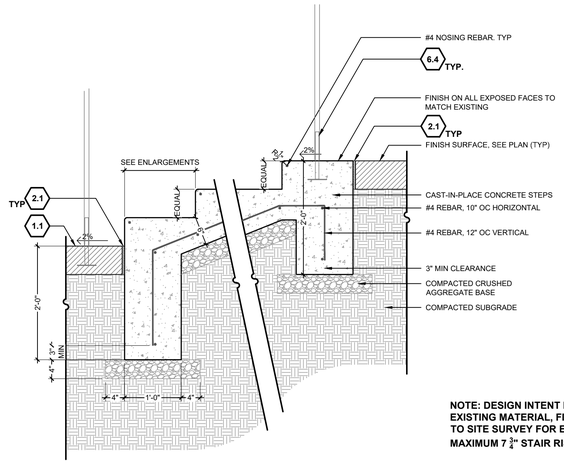
LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L7-02





NOTE: DESIGN INTENT IS FOR REPLACEMENT OF STAIRWAYS TO MATCH EXISTING MATERIAL, FINISH, DIMENSIONS, AND SPOT ELEVATIONS. REFER TO SITE SURVEY FOR EXISTING DIMENSIONS AND SPOT ELEVATIONS.
MAXIMUM 7 3/4" STAIR RISE.

3.1

1 CONCRETE STEPS
3/4" = 1'-0"

SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
6.2	Single Gate	2 / L7-04	
6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	

7.0 SITE LIGHTING

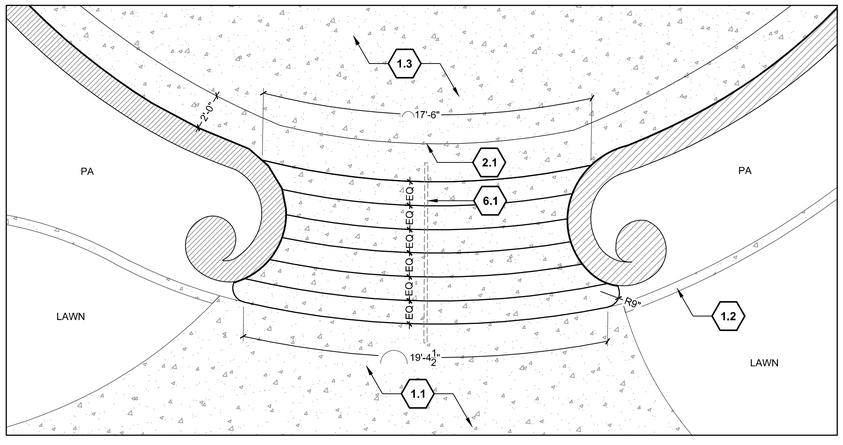
Refer to Electrical Series Drawings

8.0 DRAINAGE

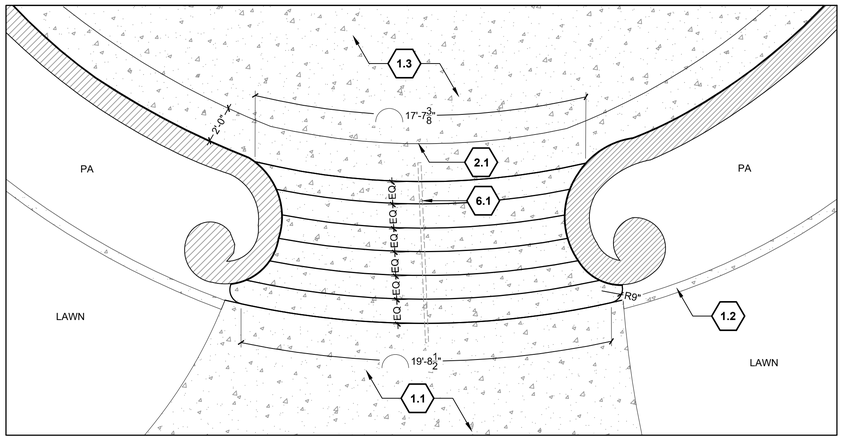
Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings



2 WEST STAIRCASE PLAN ENLARGEMENT
1/4" = 1'-0"



3 EAST STAIRCASE PLAN ENLARGEMENT
1/4" = 1'-0"

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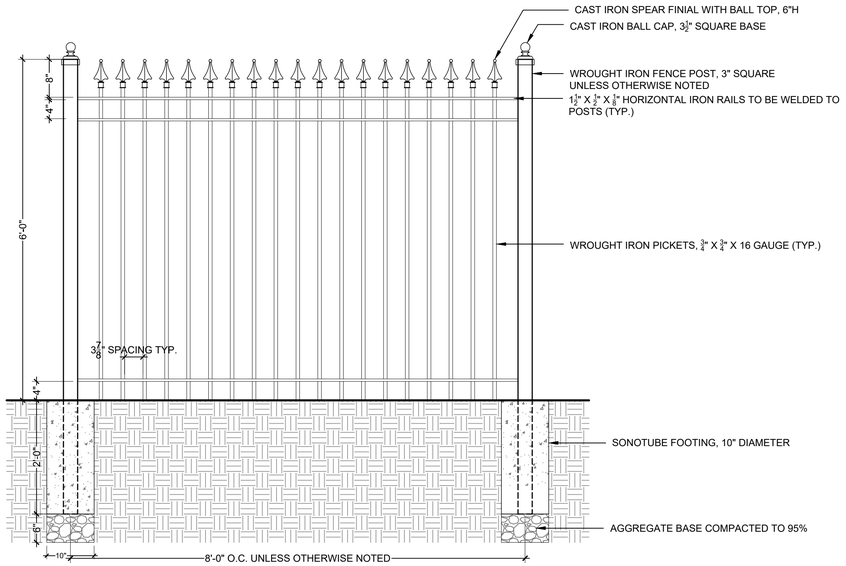
SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

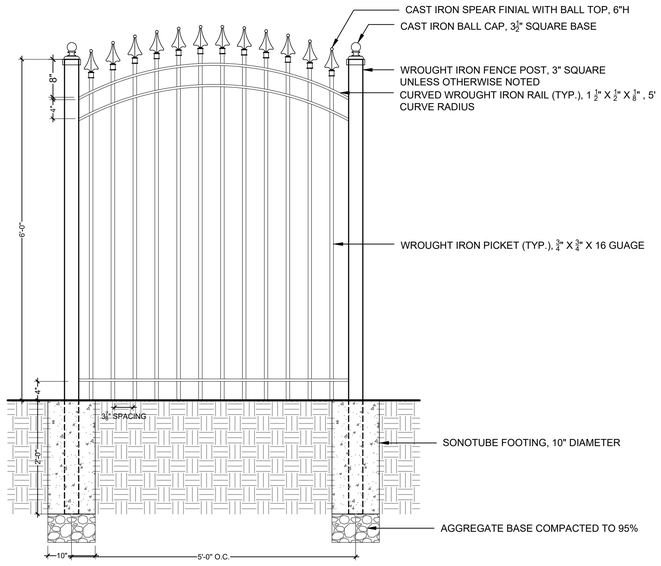
DRAWING
L7-03



1 FENCE

3/4" = 1'-0"

6.1



2 SINGLE GATE

3/4" = 1'-0"

6.2

SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
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1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
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2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
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6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	
7.0	**SITE LIGHTING**		

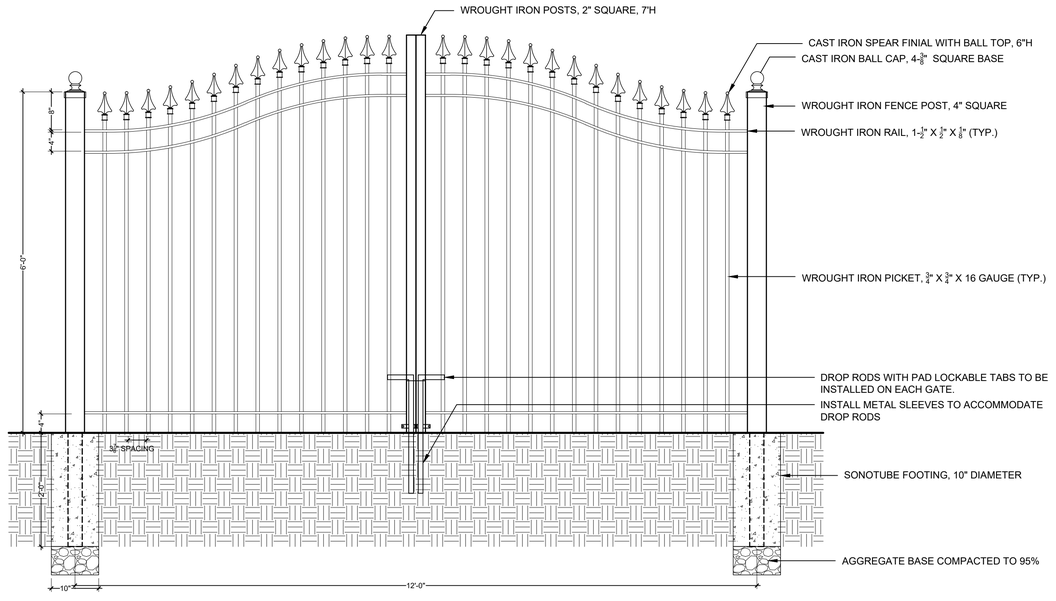
Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings



3 DOUBLE GATE

3/4" = 1'-0"

6.3

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MILESTONE

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PLACEHOLDER FOR STAMP

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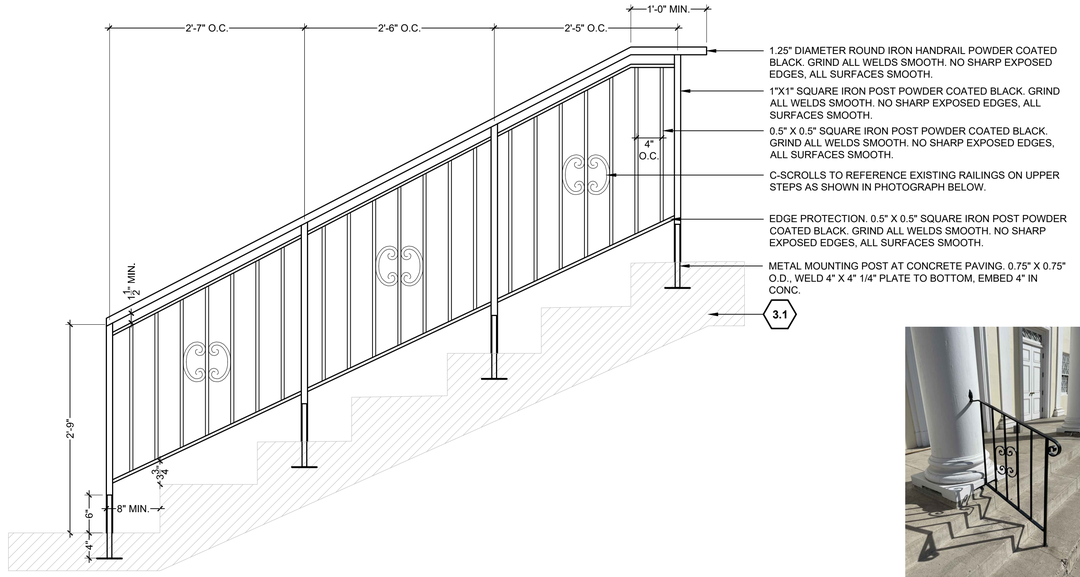
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

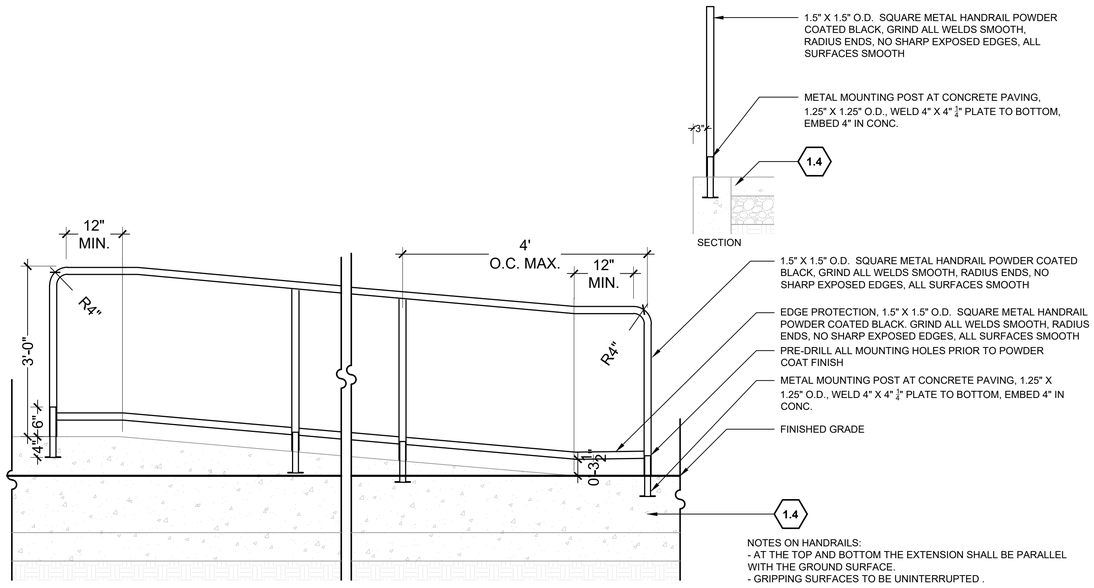
DRAWING
L7-04



1 STAIR HANDRAIL

1" = 1'-0"

6.4



NOTES ON HANDRAILS:
- AT THE TOP AND BOTTOM THE EXTENSION SHALL BE PARALLEL WITH THE GROUND SURFACE.
- GRIPPING SURFACES TO BE UNINTERRUPTED .

2 RAMP HANDRAIL

3/4" = 1'-0"

6.5

SITE KEYNOTES:

		DETAIL / SHEET	
1.0	**PAVEMENTS, RAMPS, CURBS**		
1.1	Concrete Pavement	1 / L7-01	
1.2	Concrete Mow Band	2 / L7-01	3 / L7-01
1.3	Concrete Landing	4 / L7-01	
1.4	Concrete Ramp	1 / L7-02	2 / L7-02
2.0	**JOINTING**		
2.1	Expansion Joint	3 / L7-02	
2.2	Control Joint	4 / L7-02	
3.0	**STEPS**		
3.1	Concrete Steps	1 / L7-03	2 / L7-03 3 / L7-03
6.0	**RAILINGS, BARRIERS, FENCING**		
6.1	Wrought Iron Fence	1 / L7-04	
6.2	Single Gate	2 / L7-04	
6.3	Double Gate	3 / L7-04	
6.4	Stair Handrail	1 / L7-05	
6.5	Ramp Handrail	2 / L7-05	

7.0 SITE LIGHTING

Refer to Electrical Series Drawings

8.0 DRAINAGE

Refer to Irrigation Series Drawings

9.0 PLANTING AND LANDSCAPE

Refer to Tree and Shrub Planting Series Drawings

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CAPITAL PROJECTS
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PHONE (775) 334-2548

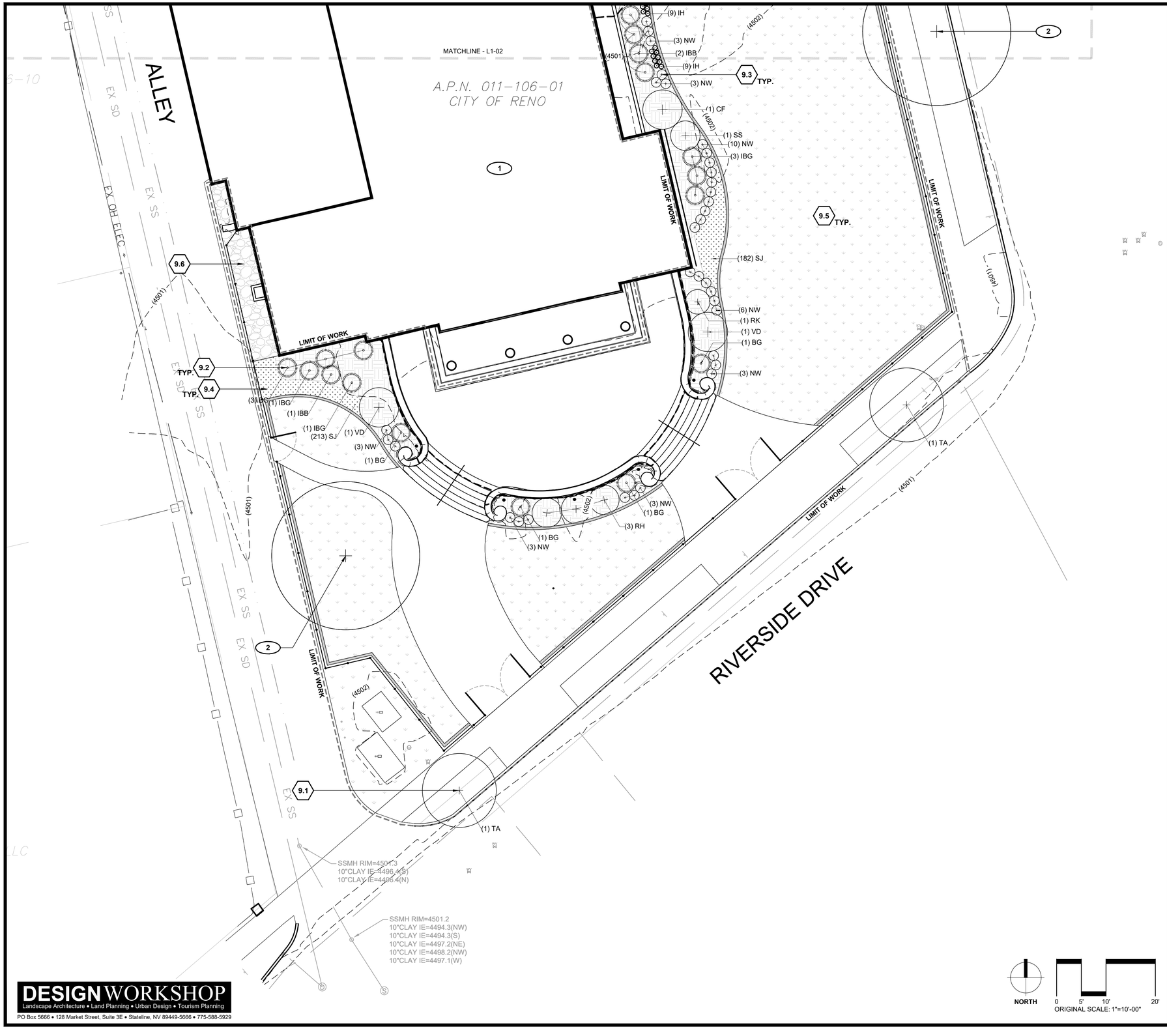
PLACEHOLDER FOR STAMP

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L7-05



NORTH

0 5' 10' 20'

ORIGINAL SCALE: 1"=10'-00"

PLANTING KEYNOTES:

DETAIL / SHEET

9.0 PLANTING AND LANDSCAPE

9.1	Deciduous Tree Planting	1 / L11-01
9.2	Shrub Planting	2 / L11-01
9.3	Perennial Planting	3 / L11-01
9.4	Groundcover Planting	4 / L11-01
9.5	Sod Planting	1 / L11-02
9.6	Rock Mulch	2 / L11-02

SHRUB AND GROUNDCOVER REFERENCE NOTES

1 EXISTING HISTORIC BUILDING. PROTECT-IN-PLACE.

2 EXISTING TREE TO REMAIN. PROTECT-IN-PLACE.

PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	TYPE	SPACING	SIZE
TREES						
TA	2	Tilia americana	American Linden	B&B	As Shown	4" Cal.
SHRUBS						
BG	12	Buxus sempervirens 'Graham Blandy'	Graham Blandy Common Boxwood	5 Gal.	As Shown	
CF	2	Cornus sericea 'Flaviramea'	Yellow Twig Dogwood	5 Gal.	As Shown	
IH	18	Iberis sempervirens 'First Flush Lavender'	First Flush™ Lavender Candytuft	1 Gal.	12" o.c.	
IBG	8	Ilex aquifolium 'Blue Girl'	Blue Girl English Holly	5 Gal.	48" o.c.	
IBB	3	Ilex x meserveae 'Blue Boy'	Blue Boy Holly	5 Gal.	48" o.c.	
NW	37	Nepeta x faassenii 'Walker's Low'	Walker's Low Catmint	3 Gal.	24" o.c.	
RK	2	Ribes sanguineum 'King Edward VII'	Red Flowering Currant	5 Gal.	As Shown	
RH	3	Rosa x 'Ausbosky'	Hyde Hall® English Rose	5 Gal.	As Shown	
SS	2	Syringa vulgaris 'Monore'	Blue Skies® Lilac	5 Gal.	As Shown	
VD	2	Viburnum plicatum tomentosum 'Mariesii'	Marie Doublefile Viburnum	10 Gal.	As Shown	
CODE	**QTY**	**BOTANICAL NAME**	**COMMON NAME**			
GROUND COVERS						
SJ	395	Sedum spurium 'John Creech'	John Creech Two Row Stonecrop			

LANDSCAPE PLANTING NOTES

1. Refer to Civil Engineer's utility plans as required. If actual site conditions vary from what is shown on the plans, contact the Landscape Architect for direction as to how to proceed.
2. Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact Landscape Architect for instructions prior to commencing work.
3. Exact locations of plant materials shall be approved by the Landscape Architect in the field prior to installation. Stake or otherwise layout all proposed planting for review. Landscape Architect reserves the right to adjust plants to exact location in field.
4. Verify plant counts and square footages. Quantities are provided as Owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail. If graphics are inconclusive contact Landscape Architect for clarification.
5. Perform excavation in vicinity of underground utilities and existing tree/plant driplines with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities and existing trees/plants shall be repaired or replaced immediately at no expense to the Owner.
6. Trees/plants shall bear same relation to finished grade as it bore to existing in place of growth. However, at no point shall it be less than 1 inch above adjacent finish grade.
7. Trees shall be planted a minimum of 2 feet from edge of pavement, except as approved by Landscape Architect.
8. Shrubs shall be planted a minimum of 2 feet from face of building and a minimum of 12 inches from edge of pavement, except as approved by Landscape Architect.
9. All other plants (perennials, grasses, groundcover, annuals) shall be planted a minimum of 12 inches from face of building and a minimum of 6 inches from edge of pavement, except as approved by Landscape Architect.
10. Provide matching forms and sizes for plant materials within each species and size designated on the drawings.
11. Prune newly planted trees only as directed by Landscape Architect.
12. Finish grades of planting areas and lawns shall be flush and meet smoothly and evenly with adjacent paving, providing positive drainage. Shovel V-cut edges shall be provided at planting area transitions to adjacent pavement as indicated to allow for mulch installation.
13. Provide specified edging as divider between planting beds and lawn areas. If not edging indicated provide shovel v-cut edge.

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PLACEHOLDER FOR STAMP

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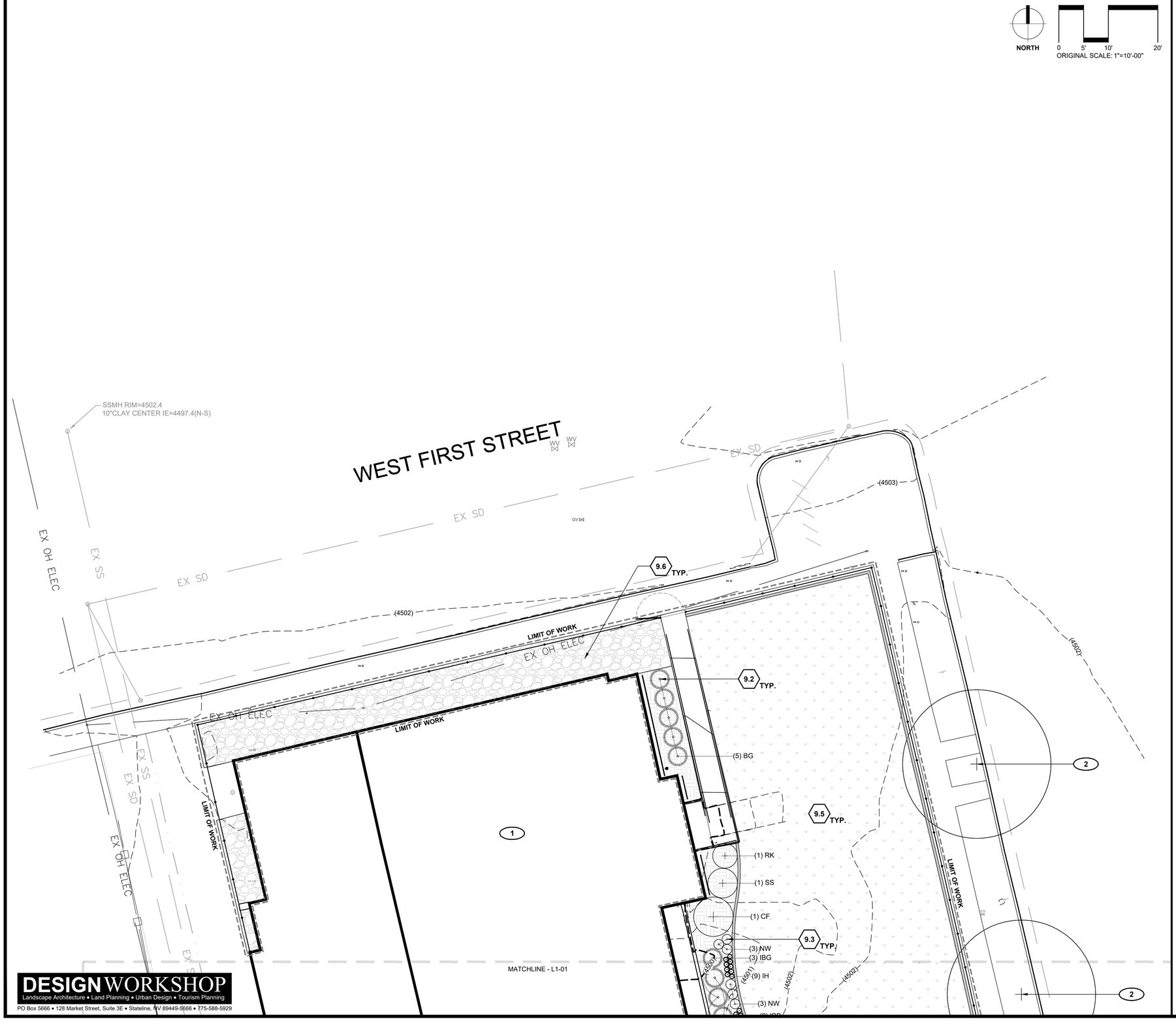
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

TREE AND SHRUB PLANTING PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L8-01



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PLANTING KEYNOTES:

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PLACEHOLDER FOR STAMP

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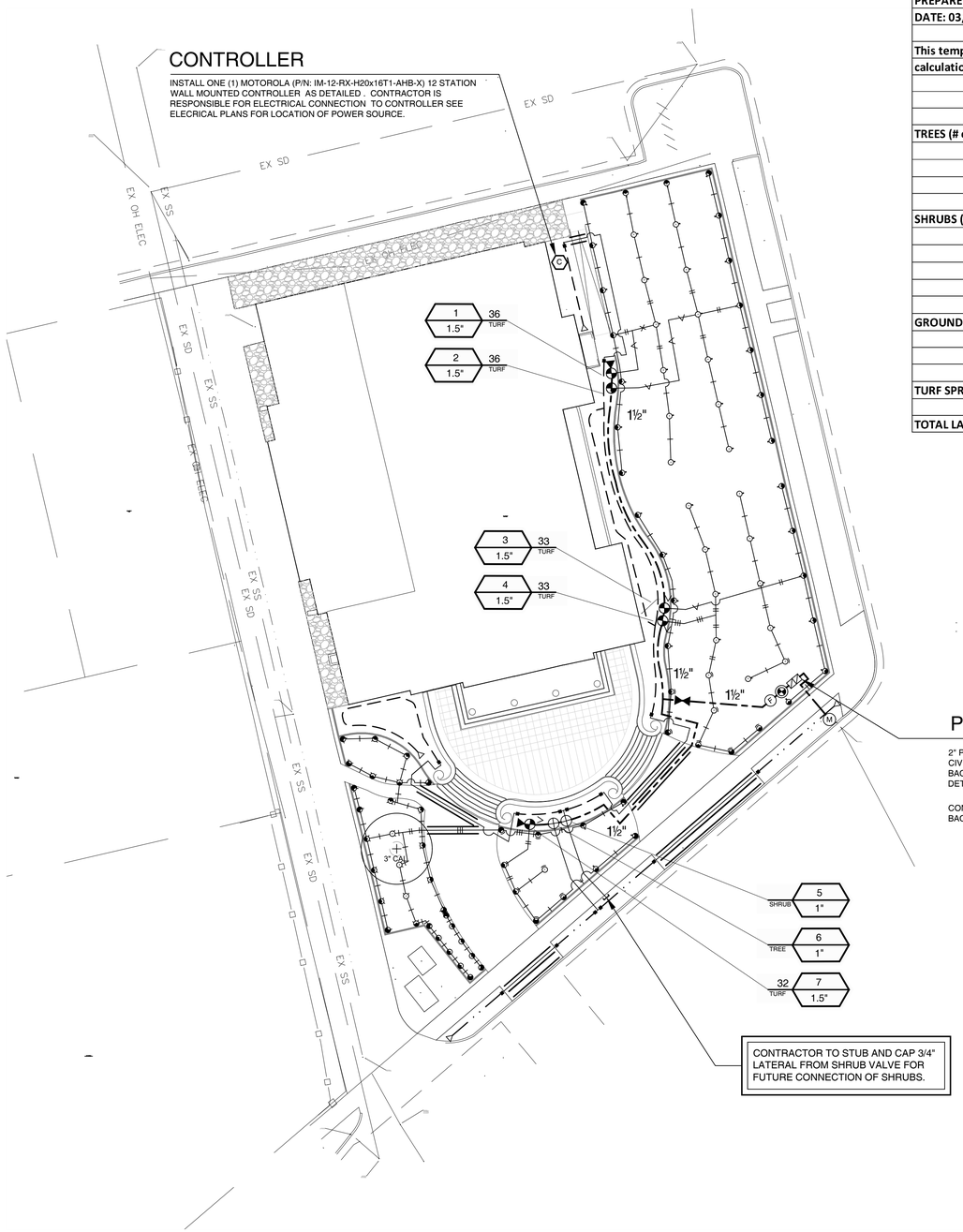
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

TREE AND SHRUB PLANTING PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L8-02

SHEET 15 OF 27



POINT OF CONNECTION

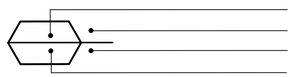
2" POTABLE WATER METER BY OTHERS AT THIS APPROXIMATE LOCATION (SEE CIVIL PLANS). CONTRACTOR SHALL CONNECT TO METER THEN INSTALL 2" BACKFLOW PREVENTER, 1.5" MASTER VALVE AND 1.5" FLOW SENSOR AS DETAILED. CONTINUE EXTENTION OF PRESSURE SUPPLY LINE AS SHOWN.

CONTRACTOR TO ORDER GUARD SHACK ENCLOSURE RGSE1002FG FOR BACKFLOW PREVENTER AND SPECIFY CUSTOM COLOR BLACK. SEE DETAIL #15.

ESTIMATE OF POTABLE LANDSCAPE WATER DEMAND		
PROJECT: Lear Theater		
PREPARED BY: ACI		
DATE: 03/19/24		
This template is designed to be used as a reference only using		
calculations approved by TMWA.		
	# OF PLANTS	AF/YR
DRIP IRRIGATION:		
TREES (# of trees x 32 x 32 / 325,851)		
Deciduous	3	0.009
Evergreen	0	0.000
TOTAL	3	0.009
SHRUBS (# of shrubs x 16 x 32 / 325,851)		
#15 gal	2	0.003
#5 gal	67	0.105
#1 gal	27	0.042
TOTAL	96	0.151
GROUNDCOVER/PERENNIALS (# of g/p x 8 x 32 / 325,851)	396	0.311
TOTAL	396	0.311
	Sq. Footage	
TURF SPRAY IRR: (Sq. Ft x 3.41 / 43,560)	0.00	0.000
TOTAL LANDCAPE WATER DEMAND (AF):		0.471

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DETAIL#	PSI
	RAIN BIRD	1806-SAM-PRS w/ 5 SERIES MPR NOZZLE	6" POP-UP SPRAY HEAD w/ HE-VAN NOZ. (SEE NOTE #5)	2	30 PSI
	RAIN BIRD	1806-SAM-PRS w/ 10 SERIES HE-VAN NOZZLE	6" POP-UP SPRAY HEAD w/ HE-VAN NOZ. (SEE NOTE #5)	2	30 PSI
	RAIN BIRD	1806-SAM-PRS w/ 12 SERIES HE-VAN NOZZLE	6" POP-UP SPRAY HEAD w/ HE-VAN NOZ. (SEE NOTE #5)	2	30 PSI
	RAIN BIRD	1806-SAM-PRS w/ 15 SERIES HE-VAN NOZZLE	6" POP-UP SPRAY HEAD w/ HE-VAN NOZ. (SEE NOTE #5)	2	30 PSI
	RAIN BIRD	PESB	ELECTRIC CONTROL VALVE (SIZE PER PLAN)	3	
	PER DETAIL	XCZ-100 COM	DRIP VALVE CONTROL ZONE KIT	4	
	RAINBIRD	44NP	QUICK COUPLING VALVE	5	
	MUELLER		2" GATE VALVE (LINE SIZE)	6	
	APPROVED	SCH 40 BE	PVC PRESSURE SUPPLY LINE (SIZE PER PLAN)	1	
	APPROVED	SCH 40 BE - 3/4"	PVC LATERAL LINE (3/4") UNLESS OTHERWISE SPECIFIED	1	
	RAIN BIRD	XF SERIES BLANK TUBING	17mm DRIP TUBING (SHRUB) (SEE NOTE #6 FOR EMITTER)	7,9	
	RAIN BIRD	XF SERIES BLANK TUBING	17mm PVC LATERAL LINE (TREE)	8,9	
	PER DETAIL		DRIP LINE BLOW-OUT STUB	10	
	APPROVED		PVC/POLY ADAPTER		
	APPROVED		PVC IRRIGATION SLEEVE (SEE NOTE #7)		
	HUNTER	ICV-101G	1.5" MASTER VALVE	11	
F	FLOMEC	QS200-10	1" FLOW SENSOR (SEE NOTE #13)	12	
M	BY OTHERS		2" - WATER METER		
	PER DETAIL		2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ASSEMBLY	15	
	MOTOROLA	IM-8-RX-H20x16T1-AHB-X	8 STATION WALL MOUNTED CONTROLLER	13,14	



NOTES

1. ALL BASE INFORMATION HAS BEEN TAKEN FROM DRAWINGS PROVIDED BY DESIGN WORKSHOP.
2. REFER TO IRRIGATION SPECIFICATIONS, IRRIGATION DETAILS & NOTES FOR INSTALLATION PROCEDURES.
3. AT THE POINTS OF CONNECTION, SYSTEM HAS BEEN DESIGNED BASED ON STATIC WATER PRESSURE OF 65 PSI.
4. **CONTRACTOR SHALL FIELD VERIFY PRESSURE AT POINT OF CONNECTION PRIOR TO ORDERING MATERIALS OR STARTING ANY IRRIGATION INSTALLATION AND NOTIFY CONSULTANT OF ANY DIFFERENCE FROM STATED PRESSURE. IF CONTRACTOR FAILS TO NOTIFY CONSULTANT HE ASSUMES FULL RESPONSIBILITY FOR ANY SYSTEM ALTERATIONS AS DIRECTED BY THE CONSULTANT.**
5. ADJUST ARC AND RADIUS OF ALL NOZZLES TO PROVIDE HEAD TO HEAD COVERAGE AND MINIMIZE ANY OVER SPRAY OUTSIDE OF PLANTED AREAS:
6. INSTALL RAIN BIRD XERI-BUG EMITTERS TO PLANT MATERIAL PER DETAILS #7 & #8 AND THE FOLLOWING SCHEDULE:

PLANT SIZE	EMITTER NUMBER	QUANTITY
1 GAL. SHRUB	XERI-BUG 1.0	2 EACH
5 GAL. SHRUB	XERI-BUG 2.0	2 EACH
DECIDIOUS TREE	XERI-BUG 2.0	4 EACH
EVERGREEN TREE	XERI-BUG 2.0	4 EACH
SEDUM SPURIUM - GROUND COVER	XERI-BUG 1.0	1 EACH

EMITTERS ONLY ARE TO BE I SHALL BE THOROUGHLY FLUSHED PRIOR TO EMITTER INSTALLATION AS PER DETAILS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY FLUSHING OF EMITTERS DUE TO CLOGGING FOR THE DURATION OF THE MAINTENANCE PERIOD AS OUTLINED IN THE LANDSCAPE SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY PLANT MATERIAL WHICH DIES DURING THE MAINTENANCE PERIOD AS A RESULT OF EMITTER CLOGGING.

7. INSTALL IRRIGATION SLEEVES UNDER PAVED SURFACES PER THE FOLLOWING SCHEDULE:

PIPE SIZE	REQUIRED SLEEVE(S)
DRIP TUBING	1-2" SDR 35 PVC
3/4" LATERAL	1-2" SDR 35 PVC
1.25" LATERAL	1-3" SDR 35 PVC
1.5" PRESSURE SUPPLY LINE	1-3" SDR 35 PVC
1-20 CONTROL WIRES	1-2" SDR 35 PVC

8. IRRIGATION DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVE, ETC.. SHALL BE LOCATED WITHIN LANDSCAPE AREAS. PIPING AND EQUIPMENT IS SHOWN OUTSIDE OF PLANTED AREAS FOR DRAWING LEGIBILITY ONLY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER AND/OR THE OWNER'S REPRESENTATIVE FOR ANY DESIGN CHANGES MADE AS A RESULT OF DEVIATION BY THE CONTRACTOR FROM THE PLANS AND SPECIFICATIONS OR DUE TO ERRORS, FAULTY MATERIAL OR FAULTY WORKMANSHIP.
10. THE CONTRACTOR SHALL INSTALL THE SPECIFIED SYSTEM IN ACCORDANCE WITH THE INDUSTRY STANDARDS AND THE ATTACHED PLANS, SCHEDULES, NOTES, DETAILS, AND SUMMERLIN LANDSCAPE IMPROVEMENT STANDARDS.
11. WORK SHALL CONFORM TO ALL CONSTRUCTION GOVERNING CODES AND REGULATIONS.
12. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT AN UNDERGROUND UTILITY COORDINATION SERVICE TO VERIFY LOCATIONS AND DEPTHS OF EXISTING UTILITIES THAT MAY BE AFFECTED BY DESCRIBED WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE IRRIGATION INSTALLATION.
13. WHEN INSTALLING FLOW SENSOR, CONTRACTOR SHALL ROTATE TOP OF FLOW SENSOR 60 - 90 DEGREES FROM VERTICAL PER MANUFACTURES RECOMMENDATIONS.

LATERAL PIPE SIZING IS INDICATED BY THE FOLLOWING SYMBOLS:

3/4"	– I	1 1/4"	– III	2"	– V
1"	– II	1 1/2"	– X	1 1/2"	– IV

Aqua Commercial Irrigation
997 Pearleaf Court
San Marcos, CA 92078
Ph: (760)505-3551

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PLACEHOLDER FOR STAMP

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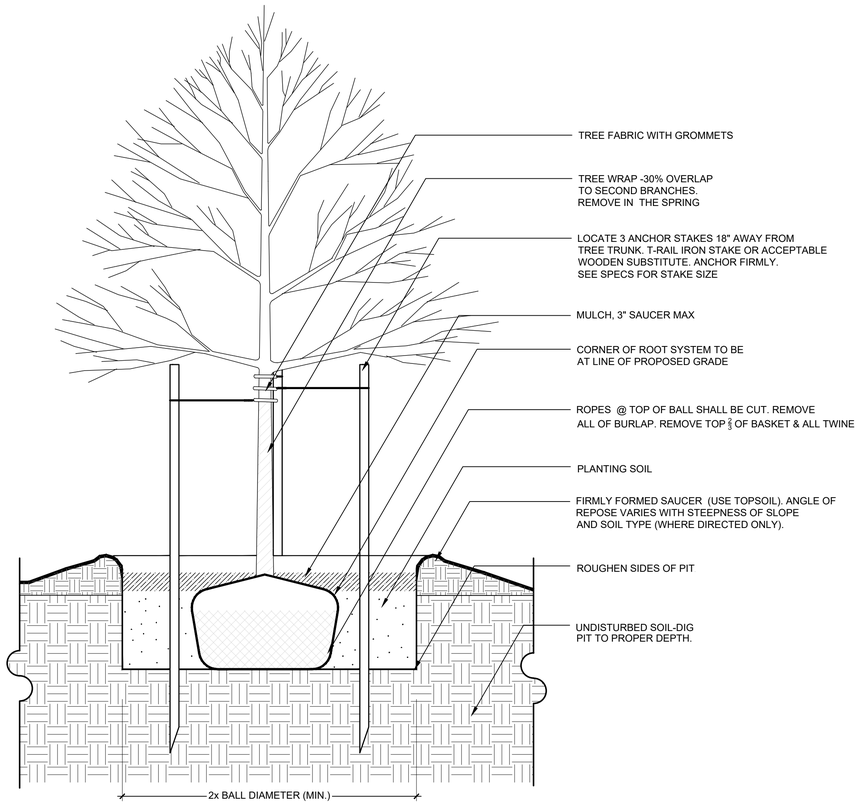
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

IRRIGATION PLAN

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	TM
SCALE: HORZ:	
VERT:	

DRAWING
L9-01

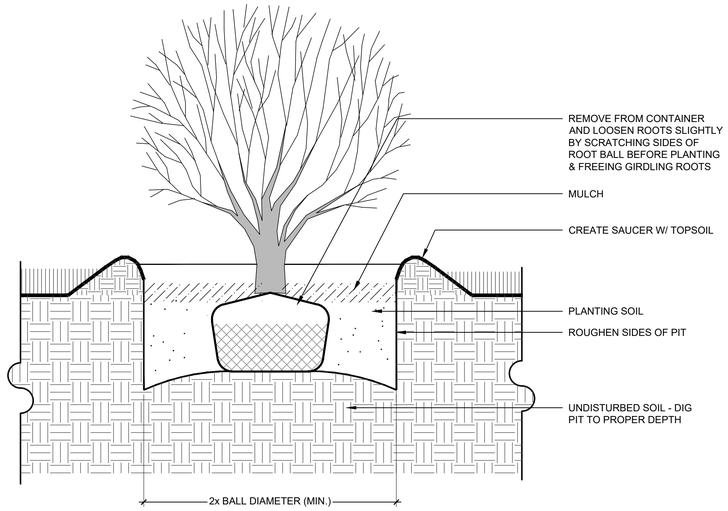
SHEET 16 OF 27



1 DECIDUOUS TREE PLANTING

NOT TO SCALE

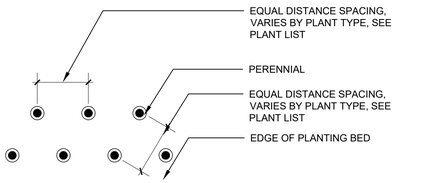
9.1

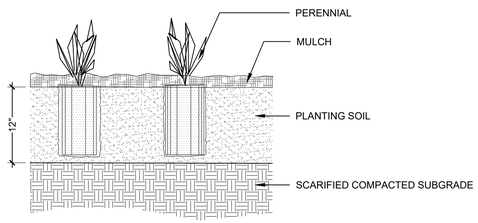


2 SHRUB PLANTING

NOT TO SCALE

9.2

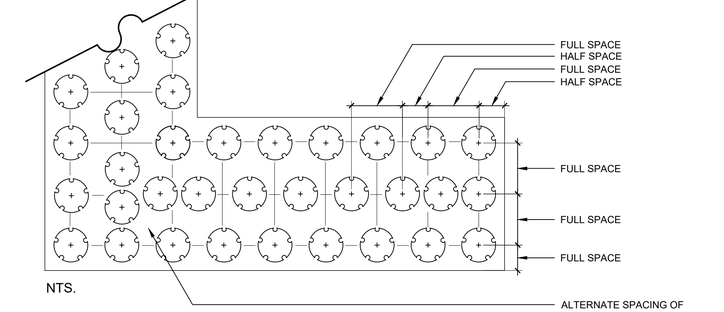


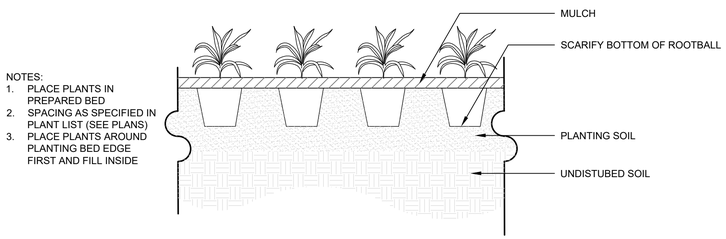


3 PERENNIAL PLANTING

1" = 1'-0"

9.3





NOTES:
1. PLACE PLANTS IN PREPARED BED
2. SPACING AS SPECIFIED IN PLANT LIST (SEE PLANS)
3. PLACE PLANTS AROUND PLANTING BED EDGE FIRST AND FILL INSIDE

4 GROUNDCOVER PLANTING

NOT TO SCALE

9.4

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RENO, NV 89505
PHONE (775) 334-2548

PLACEHOLDER FOR STAMP

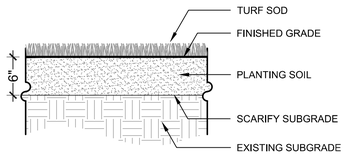
LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

PLANTING DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

DRAWING
L11-01

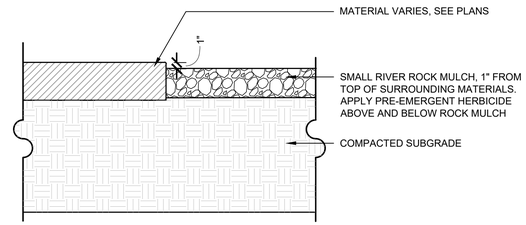
SHEET 17 OF 27



1 SOD PLANTING

1" = 1'-0"

9.5



2 ROCK MULCH

1" = 1'-0"

9.6

3 NOT USED AT THIS TIME

NOT TO SCALE

X.X

4 NOT USED AT THIS TIME

NOT TO SCALE

X.X

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MILESTONE

6/4/24	BID SET	

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DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECTS
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RENO, NV 89505
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PLACEHOLDER FOR STAMP

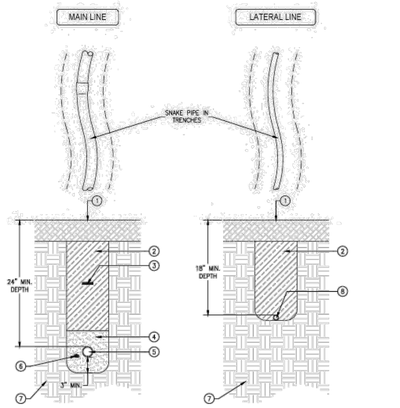
LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

SITE DETAILS

PROJ. NO.:	7924
DESIGN BY:	DW
DRAWN BY:	EC
CHECK BY:	SN

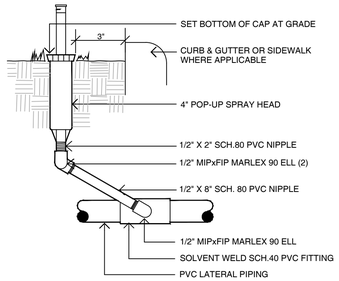
DRAWING
L11-02

SHEET 18 OF 27

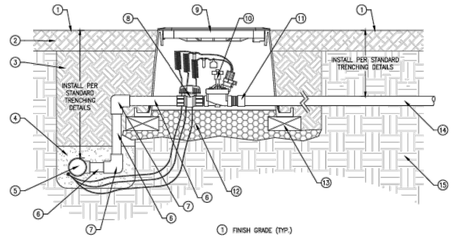


① FINISH GRADE (TYPICAL) GROUND COVER MULCH PER LEGEND
② BACKFILL TO BE WATERED DOWN, NATIVE SOIL. REMOVE ROCKS 1.5" DIAMETER IN SIZE OR LARGER AND LEGALLY DISPOSE OF SPOILS. COMPACT TRENCHES IN 4" TO 6" LIFTS TO A 90% RELATIVE COMPACTION.
③ CONTINUOUS DETECTABLE WARNING TAPE INSTALLED 12" MIN. ABOVE MAIN LINE AND CONTROL WIRES.
④ SPPCO SAND BACKFILL MATERIAL. INSTALL MIN. 3" ON ALL SIDES OF PIPE AND BOTTOM OF TRENCH.
⑤ MAIN LINE PER LEGEND. INSTALL MIN. 24" DEPTH FROM FINISH GRADE TO TOP OF PIPE. SNAKE ALL PIPING IN TRENCHES.
⑥ CONTROL WIRE; TO BE BURIED SIDE BY SIDE AND 3" MIN. DISTANCE FROM MAIN LINE PIPING. TAPE WIRES TOGETHER USING ELECTRICAL TAPE EVERY 15' ON CENTER.
⑦ NATIVE SOIL
⑧ LATERAL LINE PER LEGEND. INSTALL MIN. 18" DEPTH FROM FINISH GRADE TO TOP OF PIPE. SNAKE ALL PIPING IN TRENCHES.

1 TRENCHING
NTS

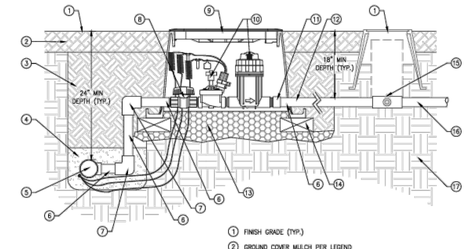


2 6" POP-UP SPRAY HEAD
NTS



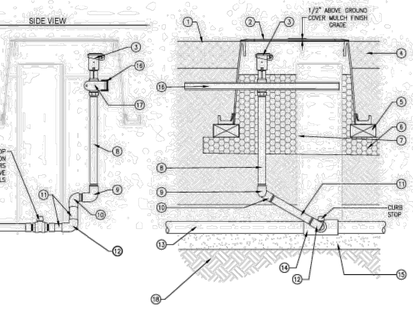
① FINISH GRADE (TYP.)
② GROUND COVER MULCH PER LEGEND
③ COMPACTED NATIVE SOIL BACKFILL MATERIAL. COMPACTED TO 90% RELATIVE COMPACTION
④ SAND BACKFILL MATERIAL ON MAIN LINE PER STANDARD DETAILS
⑤ SCH 80 MAIN LINE FITTINGS
⑥ SCH 40 PVC MAIN LINE (GLUED)
⑦ SCH 80 GLUED FITTINGS (90 DEGREE ELBOW)
⑧ SCH 80 BALL VALVE
⑨ CARSON 1220 VALVE BOX (GREEN IN COLOR FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER)
⑩ COMMERCIAL SPRAY VALVE SIZE PER LEGEND
⑪ SCH 40 MALE ADAPTER (GLUE FITTINGS ONLY)
⑫ DRAIN ROCK BACKFILL MATERIAL (3/4" IN SIZE)
⑬ CONCRETE BRICK OR PAVER
⑭ LATERAL LINE: SCH 40 PVC PIPING WITH SCH 40 FITTINGS PER LEGEND (SIZED PER PLAN)
⑮ NATIVE SOIL (TYP.)
⑯ SADDLE FOR C900 MAIN LINE (IF APPLICABLE) 6" IN SIZE OR GREATER
⑰ SCH 80 BUSHING (TxT)

3 CONTROL VALVE ASSEMBLY
NTS



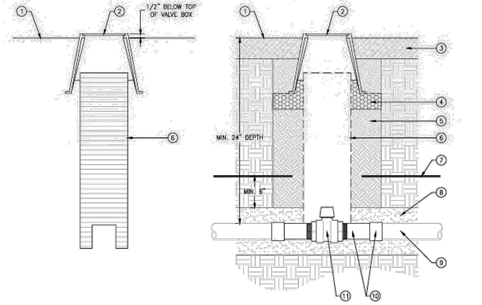
① FINISH GRADE (TYP.)
② GROUND COVER MULCH PER LEGEND
③ COMPACTED NATIVE SOIL BACKFILL MATERIAL. COMPACTED TO 90% RELATIVE COMPACTION
④ SAND BACKFILL MATERIAL ON MAIN LINE PER STANDARD DETAILS
⑤ SCH 80 MAIN LINE FITTINGS
⑥ PVC SCH 40 PIPE (6" MIN LENGTH)
⑦ SCH 80 FITTING GLUED INTO PLACE (90 DEGREE ELBOW 5x5)
⑧ SCH 80 BALL VALVE
⑨ CARSON 1220 VALVE BOX (GREEN IN COLOR FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER)
⑩ COMMERCIAL DRIP VALVE PER LEGEND
⑪ SCH 40 FEMALE ADAPTER (GLUE ALL FITTINGS)
⑫ PVC DRIP LATERAL LINE (TYP.)
⑬ DRAIN ROCK BACKFILL MATERIAL (3/4" IN SIZE)
⑭ CONCRETE BRICK OR PAVER
⑮ MANUAL DRAIN VALVE ON LATERAL LINE. INSTALL PER MANUAL DRAIN STANDARD DETAIL
⑯ PVC DRIP LATERAL LINE; SCH 40 PVC PIPING WITH SCH 40 FITTINGS PER LEGEND (SIZED PER PLAN)
⑰ NATIVE SOIL (TYP.)
⑱ SADDLE FOR GASKETED MAIN LINE (IF APPLICABLE)
⑲ SCH 80 BUSHING (TxT)

4 DRIP VALVE ASSEMBLY
NTS



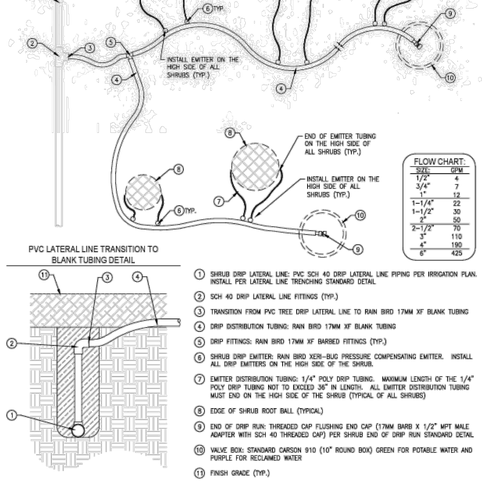
① FINISH GRADE (TYP.)
② VALVE BOX: CARSON 1419 VALVE BOX (GREEN FOR POTABLE OR PURPLE FOR RECLAIMED)
③ QUICK COUPLER PER LEGEND: 1" BRASS TWO PIECE QUICK COUPLER WITH LOCKING LID
④ GROUND COVER MULCH OR TURF PER LEGEND
⑤ CONCRETE BRICK OR PAVER
⑥ 3/4" DRAIN ROCK BACKFILL MATERIAL
⑦ COMPACTED NATIVE SOIL BACKFILL MATERIAL. COMPACT ALL BACKFILL MATERIAL IN 4" TO 6" LIFTS TO 90% RELATIVE COMPACTION.
⑧ 1" SCH 80 NIPPLE (LENGTH AS NEEDED FOR FINISH GRADE)
⑨ SCH 80 ELBOW TxT (90 FITTING)
⑩ SCH 80 STREET 90 ELBOW TxT
⑪ 1" SCH 80 NIPPLE (LENGTH AS NEEDED FOR FINISH GRADE)
⑫ SCH 80 STREET 90 ELBOW TxT
⑬ SCH 40 PVC MAIN LINE PER LEGEND
⑭ SCH 80 MAIN LINE FITTING PER LEGEND (SEE DETAIL FOR GASKETED MAIN LINE ON THIS SHEET IF APPLICABLE)
⑮ SAND BACKFILL PER MAIN LINE TRENCHING DETAIL
⑯ UNI-STRUT CHANNEL BRACKET 3" SECTION (BL B225H 1-5/8" PERF CC CHANNEL 1)
⑰ CLAMP (BL BVT162 1-5/8 VIBRA CLAMP A716) CLAMP FOR UNI-STRUT CHANNEL BRACKET. CONTRACTOR TO REMOVE RUBBER GASKET BEFORE INSTALLATION
⑱ NATIVE SOILS
⑲ SADDLE FOR C900 MAIN LINE (IF APPLICABLE) 6" IN SIZE OR GREATER
⑳ SCH 80 BUSHING TxT

5 QUICK COUPLING VALVE
NTS



① FINISH GRADE (TYPICAL)
② ROUND BOX: CARSON 910 (GREEN FOR POTABLE OR PURPLE FOR RECLAIMED)
③ GROUND COVER MULCH OR TURF PER LEGEND
④ DRAIN ROCK BACKFILL MATERIAL: 3/4" DRAIN ROCK (4" MIN DEPTH)
⑤ COMPACTED NATIVE SOILS PER TRENCHING DETAIL AND SPECIFICATION
⑥ STAND PIPE: 6" CORRUGATED ADS NON-PERFORATED DRAIN PIPE
⑦ DETECTABLE WARNING TAPE PER TRENCHING DETAIL AND SPECIFICATION
⑧ SAND BACKFILL AROUND MAIN LINE (MIN 3" ON ALL SIDES)
⑨ MAIN LINE PER LEGEND (2" MAIN LINE OR LESS)
⑩ MAIN LINE FITTING: SCH 80 COUPLING (5x5) AND SCH 80 NIPPLE GLUED INTO FITTING
⑪ BRASS INLINE CURB STOP GATE VALVE (FIP)

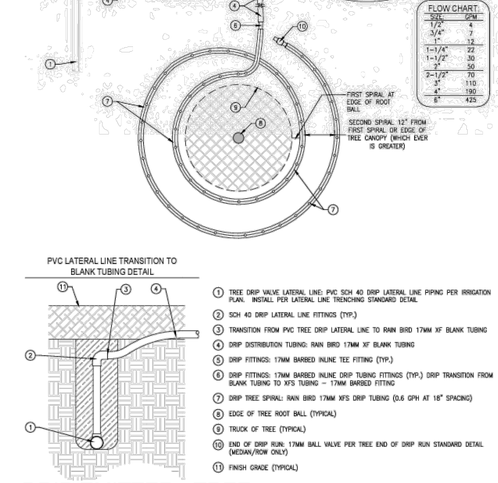
6 GATE VALVE
NTS



FLOW CHART:	
SIZE	GPM
1/2"	4
3/4"	7
1"	12
1-1/4"	22
1-1/2"	30
2"	50
2-1/2"	70
3"	110
4"	190
6"	425

① SHRUB DRIP LATERAL LINE: PVC SCH 40 DRIP LATERAL LINE PIPING PER IRRIGATION PLAN. INSTALL PER LATERAL LINE TRENCHING STANDARD DETAIL
② SCH 40 DRIP LATERAL LINE FITTINGS (TYP.)
③ TRANSITION FROM PVC TREE DRIP LATERAL LINE TO RAIN BIRD 17MM XF BLANK TUBING
④ DRIP DISTRIBUTION TUBING: RAIN BIRD 17MM XF BLANK TUBING
⑤ DRIP FITTINGS: RAIN BIRD 17MM XF BARBED FITTINGS (TYP.)
⑥ SHRUB DRIP EMITTER: RAIN BIRD XER-BUG PRESSURE COMPENSATING EMITTER. INSTALL ALL DRIP EMITTERS ON THE HIGH SIDE OF THE SHRUB.
⑦ EMITTER DISTRIBUTION TUBING: 1/4" POLY DRIP TUBING. MAXIMUM LENGTH OF THE 1/4" POLY DRIP TUBING NOT TO EXCEED 36" IN LENGTH. ALL EMITTER DISTRIBUTION TUBING MUST END ON THE HIGH SIDE OF THE SHRUB (TYPICAL OF ALL SHRUBS)
⑧ EDGE OF SHRUB ROOT BALL (TYPICAL)
⑨ END OF DRIP RUN: THREADED CAP FLUSHING END CAP (17MM BARB X 1/2" MPT MALE ADAPTER WITH SCH 40 THREADED CAP) PER SHRUB END OF DRIP RUN STANDARD DETAIL
⑩ VALVE BOX: STANDARD CARSON 910 (10" ROUND BOX) GREEN FOR POTABLE WATER AND PURPLE FOR RECLAIMED WATER
⑪ FINISH GRADE (TYP.)

7 DRIP EMITTER - SHRUB
NTS



FLOW CHART:	
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3/4"	7
1"	12
1-1/4"	22
1-1/2"	30
2"	50
2-1/2"	70
3"	110
4"	190
6"	425

① TREE DRIP VALVE LATERAL LINE: PVC SCH 40 DRIP LATERAL LINE PIPING PER IRRIGATION PLAN. INSTALL PER LATERAL LINE TRENCHING STANDARD DETAIL
② SCH 40 DRIP LATERAL LINE FITTINGS (TYP.)
③ TRANSITION FROM PVC TREE DRIP LATERAL LINE TO RAIN BIRD 17MM XF BLANK TUBING
④ DRIP DISTRIBUTION TUBING: RAIN BIRD 17MM XF BLANK TUBING
⑤ DRIP FITTINGS: 17MM BARBED INLINE TEE FITTING (TYP.)
⑥ DRIP FITTINGS: 17MM BARBED INLINE DRIP TUBING FITTINGS (TYP.) DRIP TRANSITION FROM BLANK TUBING TO XFS TUBING – 17MM BARBED FITTING
⑦ DRIP TREE SPIRAL: RAIN BIRD 17MM XFS DRIP TUBING (0.6 GPH AT 18" SPACING)
⑧ EDGE OF TREE ROOT BALL (TYPICAL)
⑨ TRUCK OF TREE (TYPICAL)
⑩ END OF DRIP RUN: 17MM BALL VALVE PER TREE END OF DRIP RUN STANDARD DETAIL (MEDIAN/ROW ONLY)
⑪ FINISH GRADE (TYPICAL)

8 DRIP EMITTER - TREE
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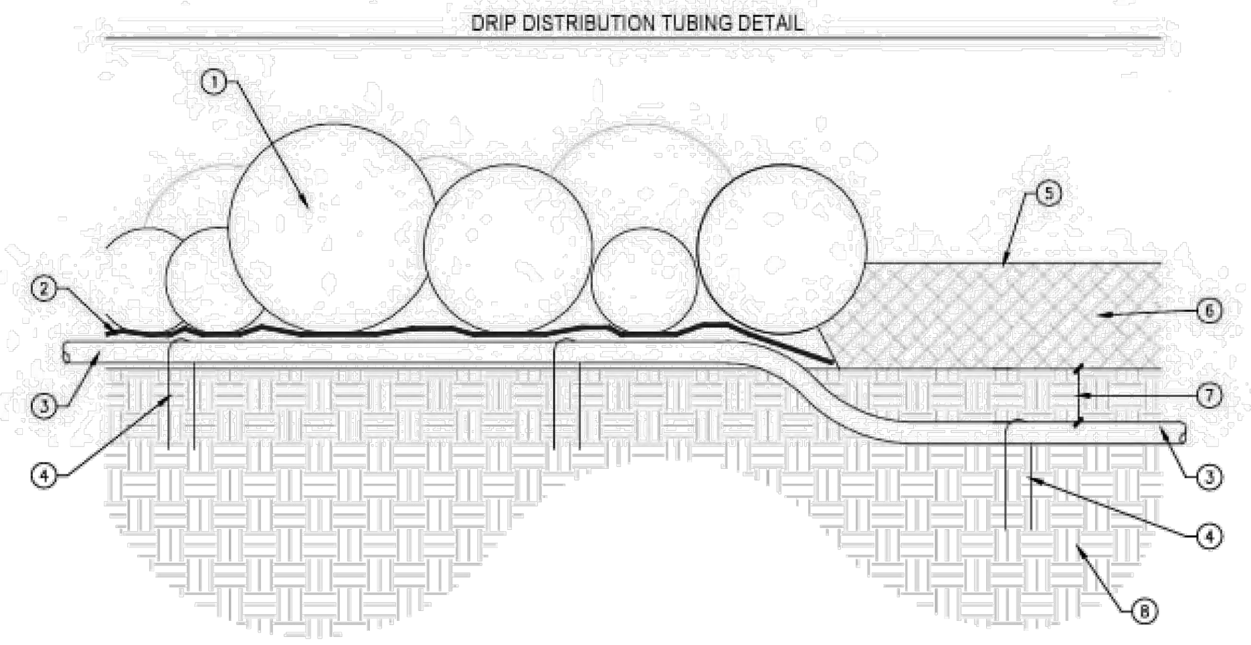
SCALE: HORZ:	
VERT:	

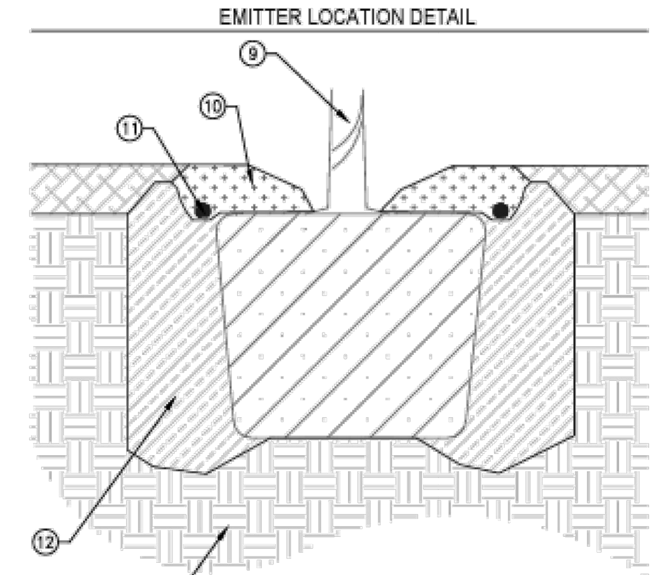
DRAWING
L12-01

SHEET 19 OF 27

DRIP DISTRIBUTION TUBING DETAIL

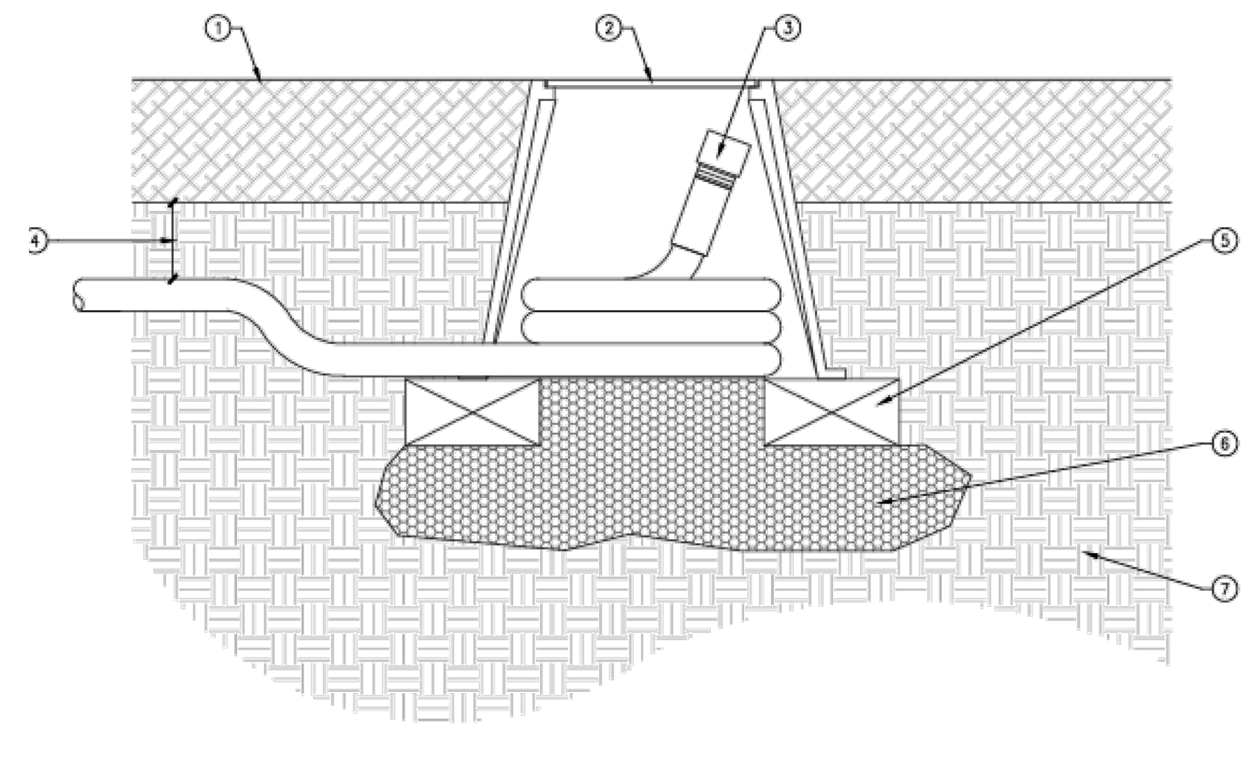


EMITTER LOCATION DETAIL



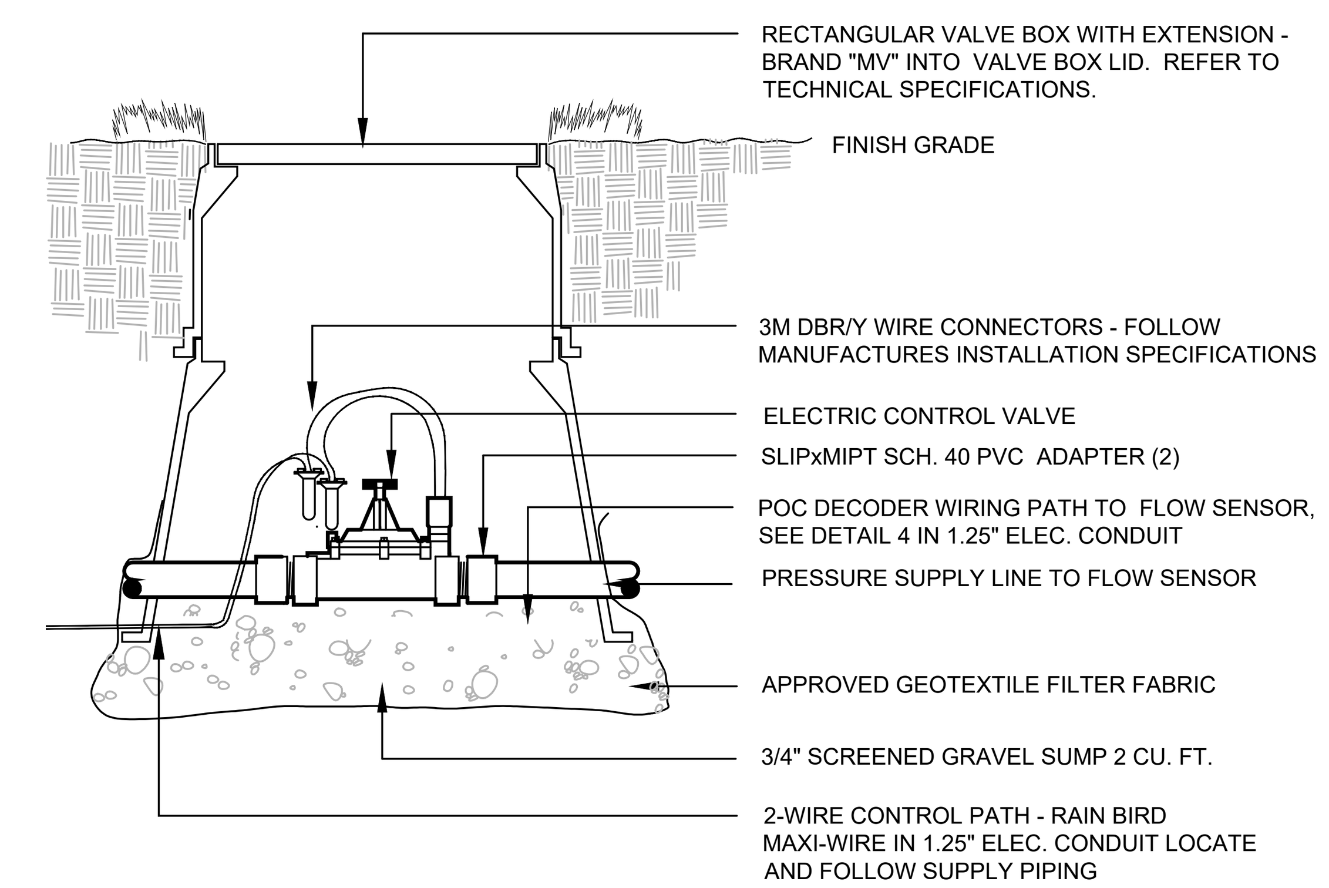
1. ROCK GROUND COVER MULCH (PER LEGEND) WITH LANDSCAPE FABRIC BENEATH
2. LANDSCAPE FABRIC
3. DRIP 17MM DISTRIBUTION TUBING PER LEGEND
4. LANDSCAPE STAPLES EVERY (+/-) 5 LF ON CENTER
5. FINISH GRADE (TYP.)
6. DECOMPOSED GRANITE GROUND COVER MULCH (DO NOT INSTALL LANDSCAPE FABRIC BENEATH THE DG MULCH)
7. BURY DRIP 17MM DISTRIBUTION TUBING MIN. 3" DEPTH INTO THE NATIVE SOILS UNDER ALL GROUND COVER MULCHES THAT DO NOT HAVE FABRIC BENEATH
8. NATIVE SOILS (TYP.)
9. TYPICAL TREE OR SHRUB PLANTING
10. BARK MULCH IN PLANT WATERING BASINS
11. RAIN BIRD XFS DRIP TUBING: CONTRACTOR TO LOCATED THE INLINE DRIP AT THE EDGE OF THE PLANT ROOTBALL AS SHOWN
12. TREE OR SHRUB PLANTING BACKFILL MATERIAL PER PLANTING STANDARD DETAILS

9 DRIP
NTS

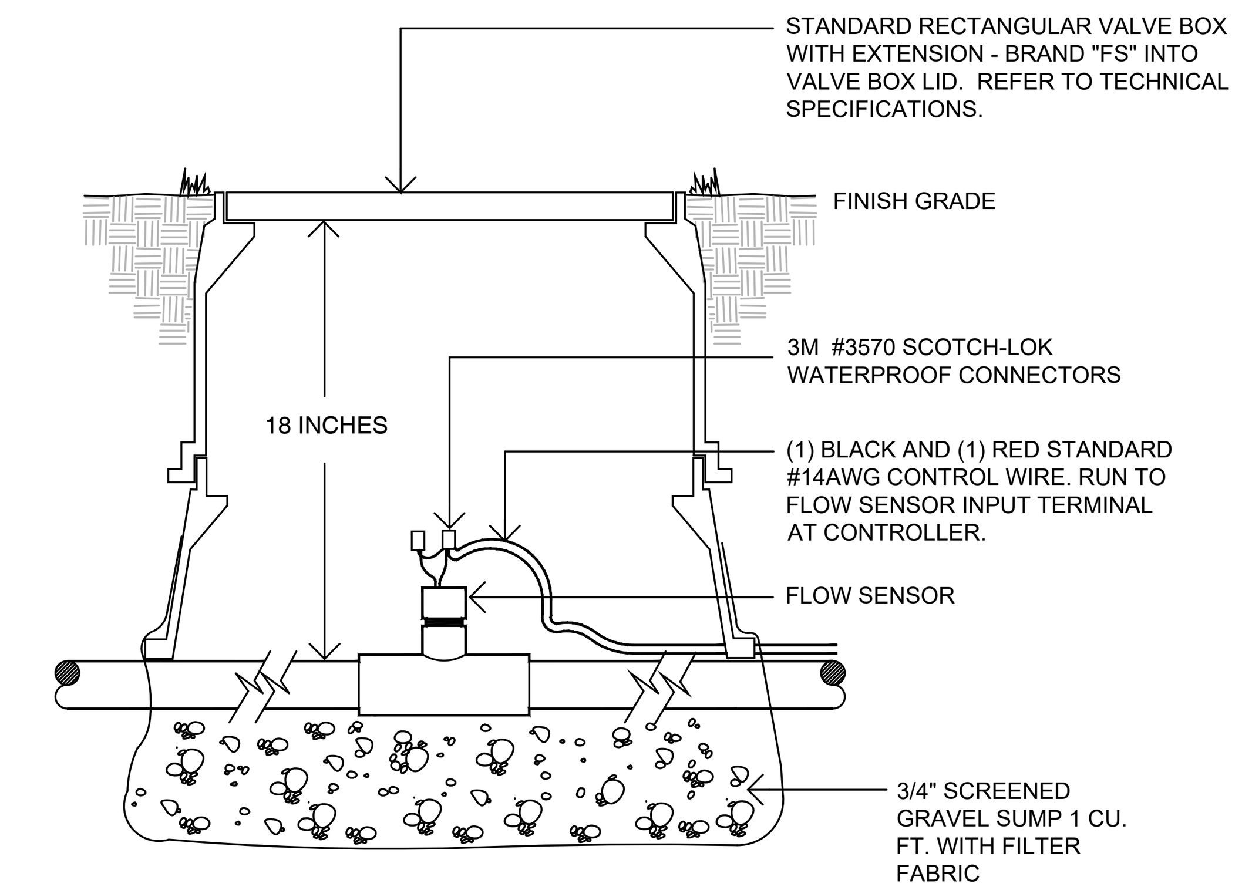


1. FINISH GRADE (TYP.)
2. VALVE BOX: CARSON 910 ROUND BOX (GREEN IN COLOR FOR POTABLE WATER AND PURPLE IN COLOR FOR RECLAIMED WATER)
3. DRIP DISTRIBUTION TUBING FLUSHING END CAP
4. BURY DRIP POLY DISTRIBUTION TUBING MIN. 3" DEPTH INTO THE NATIVE SOILS UNDER ALL GROUND COVER MULCHES THAT DO NOT HAVE FABRIC BENEATH (I.E. BARK OR DG MULCH)
5. CONCRETE BRICK OR PAVER FOR VALVE BOX SUPPORT
6. DRAIN ROCK BACKFILL MATERIAL: 3/4" DRAIN ROCK SUMP
7. NATIVE SOILS

10 DRIP BLOW-OUT
NTS

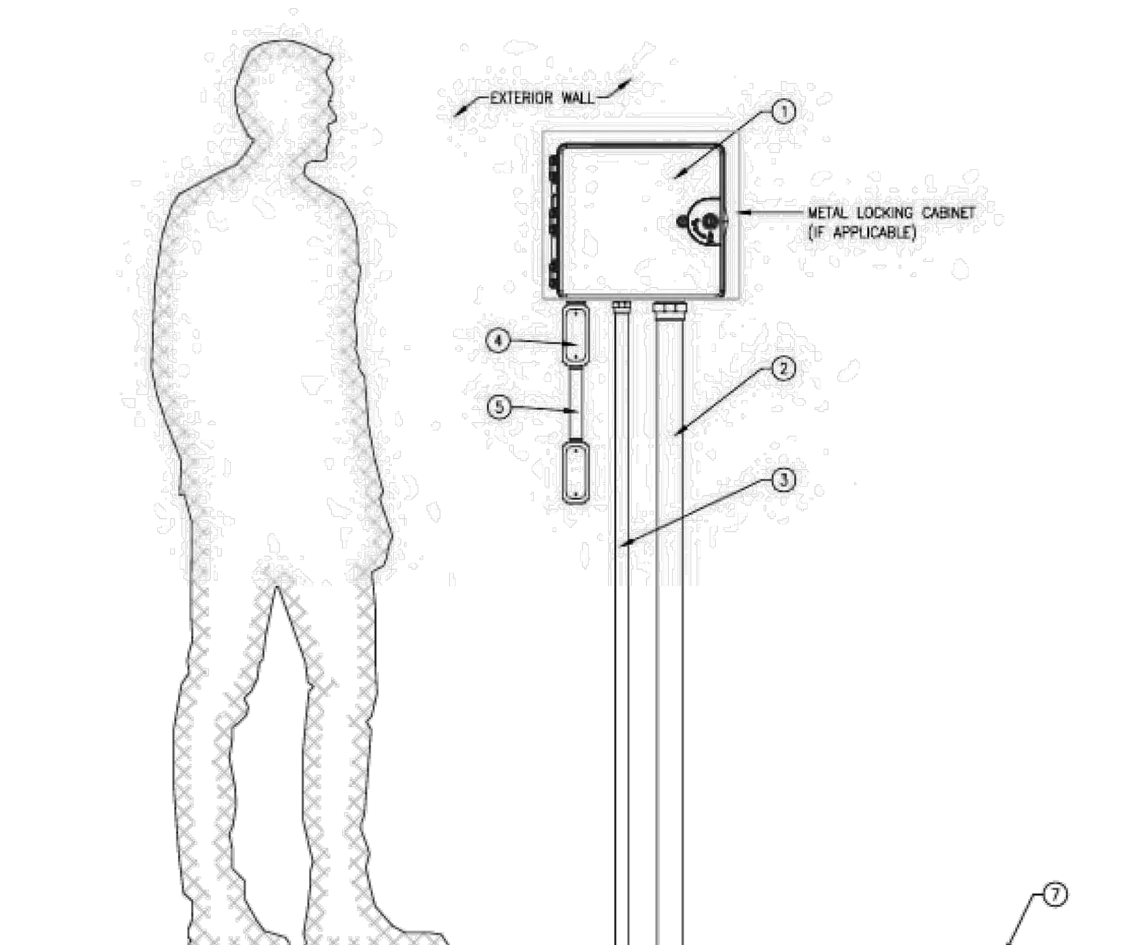


11 MASTER VALVE
NTS



NOTE:
FLOMEC FLOW SENSOR TO BE INSTALLED 60° TO 90° FROM PLUMB PER MANUFACTURES RECOMMENDATIONS.

12 FLOW SENSOR
NTS



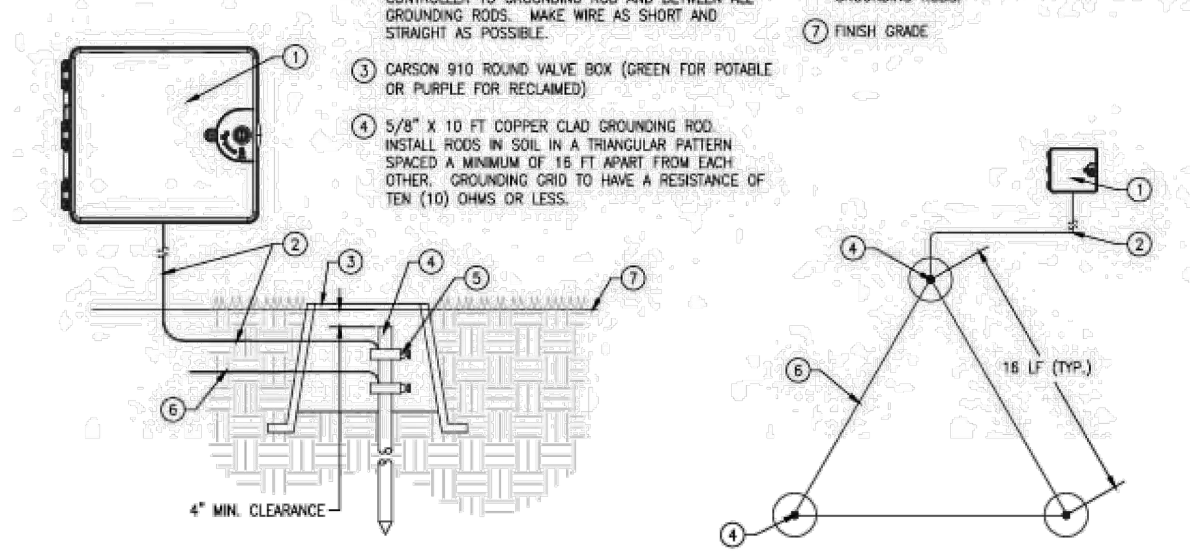
1. EXTERIOR WALL MOUNT IRRIGATION CONTROLLER PER LEGEND
2. ELECTRICAL CONDUIT AND CONDUIT SWEEP FOR IRRIGATION CONTROL WIRES. SIZE TO BE DETERMINED FOR AMOUNT OF CONTROL WIRES.
3. ELECTRICAL CONDUIT (1" IN SIZE) AND CONDUIT SWEEP FOR CONTROLLER GROUNDING. SEE CONTROLLER GROUNDING DETAIL
4. ELECTRICAL JUNCTION BOX (HARD WIRED TO POWER SOURCE) COORDINATE WITH ELECTRICAL CONTRACTOR
5. ELECTRICAL CONDUIT (1" IN SIZE) FOR ELECTRICAL CONNECTION PER ELECTRICAL CONTRACTOR
6. DIRECT BURIAL IRRIGATION CONTROL WIRE PER LEGEND
7. FINISH GRADE

NOTE:
1.) FOR EASE OF INSTALLATION, A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A SPLICE BOX AT THE BASE OF THE CONTROLLER AND TRANSITION THE IRRIGATION CONTROL WIRES INTO A MULTI-STRAND WIRE INTO THE CONTROLLER.
2.) PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS. PROVIDE WRITTEN TEST RESULTS TO THE OWNER'S REP PRIOR TO COMPLETION OF CONSTRUCTION.

13 CONTROLLER
NTS

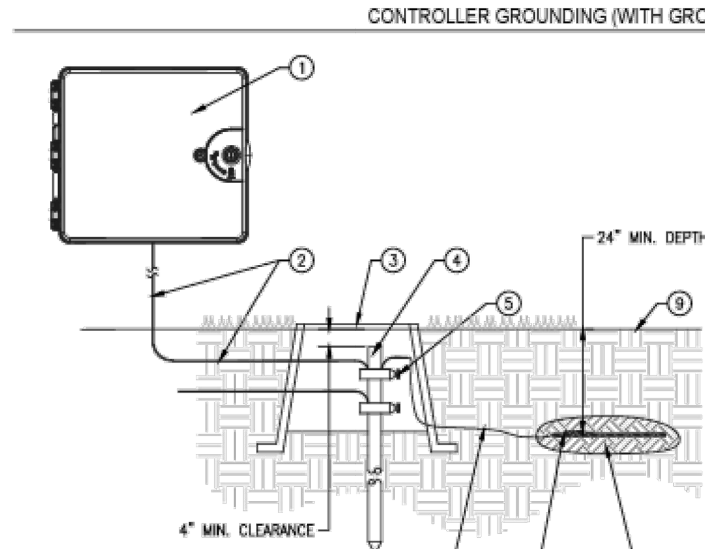
CONTROLLER GROUNDING

1. CONTROLLER PER LEGEND
2. SOLID BARE COPPER WIRE (#10 AWG) FROM CONTROLLER TO GROUNDING ROD AND BETWEEN ALL GROUNDING RODS. MAKE WIRE AS SHORT AND STRAIGHT AS POSSIBLE.
3. CARSON 910 ROUND VALVE BOX (GREEN FOR POTABLE OR PURPLE FOR RECLAIMED)
4. 5/8" X 10 FT COPPER CLAD GROUNDING ROD. INSTALL RODS IN SOIL IN A TRIANGULAR PATTERN SPACED A MINIMUM OF 16 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS.
5. GROUND ROD CLAMP OR WELDS
6. BARE COPPER WIRE (#10 AWG MIN.) BETWEEN GROUNDING RODS.
7. FINISH GRADE



NOTE: PROVIDE ADDITIONAL GROUND PLATE IF GROUND RESISTANCE OF 10 OHMS OR LESS IS NOT ACHEIVED WITH GROUNDING RODS. PROVIDE WRITTEN TEST RESULTS TO THE OWNER'S REP PRIOR TO COMPLETION OF CONSTRUCTION.

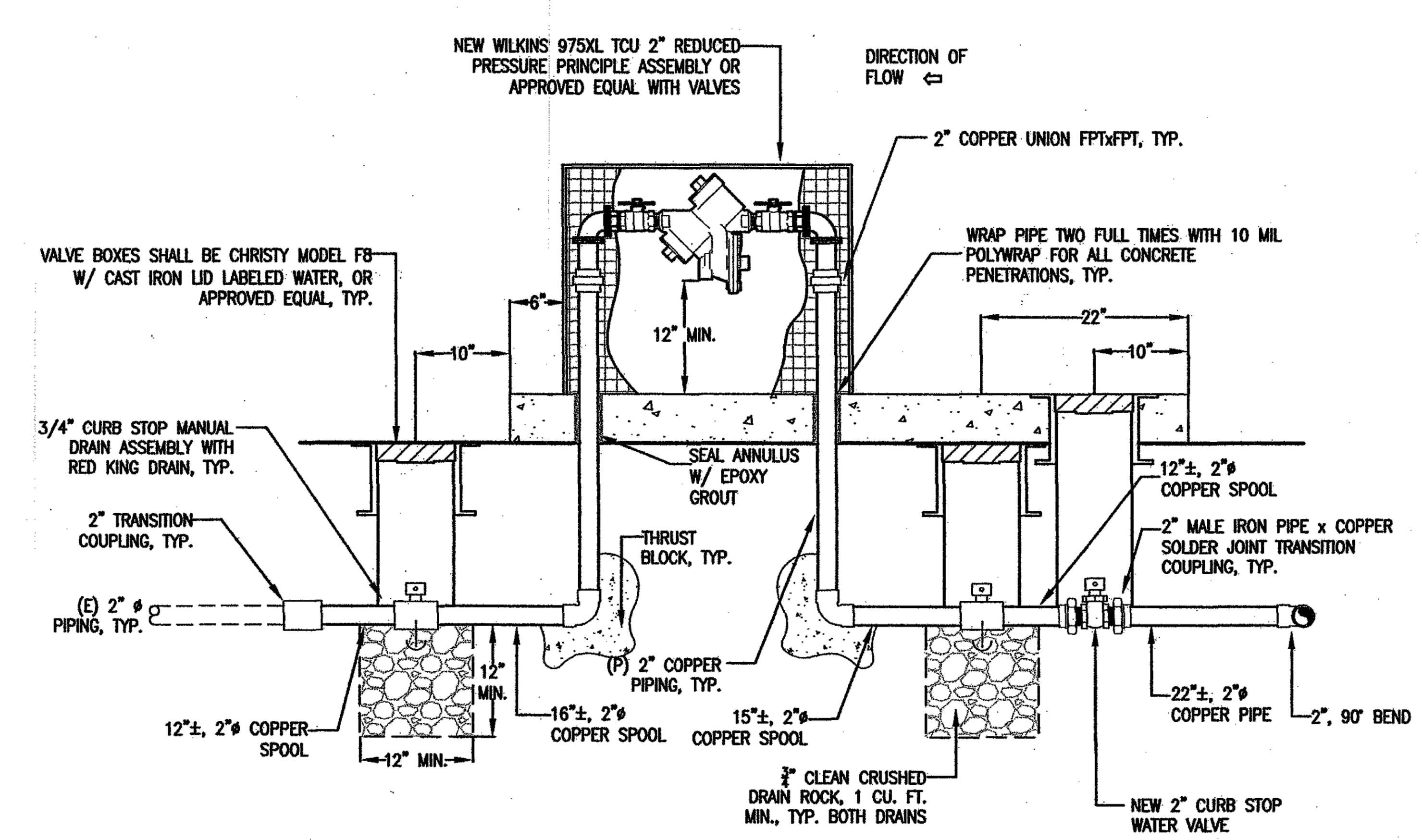
CONTROLLER GROUNDING (WITH GROUNDING PLATE)



1. CONTROLLER PER LEGEND
2. SOLID BARE COPPER WIRE (#10 AWG) FROM CONTROLLER TO GROUNDING ROD AND BETWEEN ALL GROUNDING RODS. MAKE WIRE AS SHORT AND STRAIGHT AS POSSIBLE.
3. CARSON 910 ROUND VALVE BOX (GREEN FOR POTABLE OR PURPLE FOR RECLAIMED)
4. 5/8" X 10 FT COPPER CLAD GROUNDING ROD. INSTALL RODS IN SOIL IN A TRIANGULAR PATTERN SPACED A MINIMUM OF 16 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS.
5. GROUND ROD CLAMP OR WELDS
6. BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUNDING PLATE.
7. COPPER GROUNDING PLATE
8. GROUND ENHANCEMENT MATERIAL (IF REQUIRED)
9. FINISH GRADE

14 CONTROLLER GROUNDING
NTS

RPP ASSEMBLY SHALL BE ENCLOSED WITH GUARD SHACK MODEL GS-2 WITH FROST GUARD MOUNTED TO 72" LONG x 20" WIDE x 5½" THICK CONCRETE PAD



15 BACKFLOW PREVENTER
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CHECK BY:	TM
SCALE: HORZ:	
VERT:	

DRAWING
L12-02

DRAWING SCHEDULE

SHEET	DESCRIPTION	
E0.01	ELECTRICAL LEGEND & SCHEDULES	●
E0.02	ELECTRICAL SPECIFICATIONS	●
E0.03	IECC CALCULATION	●
E0.04	DETAILS	●
E1.01	OVERALL ELECTRICAL PLAN	●
E2.01	ENLARGED ELECTRICAL PLAN	●
E3.01	ELEVATIONS	●
	TOTAL SHEETS IN ISSUE:	7

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

SUBSTITUTION: DEFINITIONS

- ◉ OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
- ◉ NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.
- ◉ SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
S1 40		LED LINEAR WALL GRAZER, 4' LENGTH, RGBW, 10 X 30 DEGREE OPTICS, COLOURLINE GRAZE LOUVER, HEAVY DUTY LANDSCAPE SPIKES, WITH SMART TOUCH CONTROL KEYPAD STICK-CW4 CONTROLLER, POWER DATA WIRING BOX, AND ALL CABLING AS REQUIRED FOR A COMPLETE SYSTEM. 4' FIXTURE FACTORY SET FOR PERSONALITY 5 (1' INCREMENT 4-CHANNELS). LAMP: LED, 500 LUMENS/FT, RGBW VOLTAGE: 120V MANUFACTURER:SSL CLZWET-4-UNV-RGBW-20L-1030-DMX-HLS-STICK-CW4 SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL
S2 66		LED FLOODLIGHT, POST TOP FITTED, RGBW, 15 X 30 DEGREE OPTICS, CUTOFF VISOR WITH WITH ROCK GUARD SMART TOUCH CONTROL KEYPAD STICK-CW4 CONTROLLER, POWER DATA WIRING BOX, AND ALL CABLING AS REQUIRED FOR A COMPLETE SYSTEM. CUSTOM RAL COLOR FINISH TO MATCH BUILDING. POST TOP MOUNT ON 3" DIAMETER ROUND STRAIGHT STEEL POLE, 5' HEIGHT, WITH VIBRATION DAMPENERS. RSP-8-3-11-MOD HEIGHT 5'-AB-VD COLOR FINISH TO MATCH BUILDING. LAMP: LED, 2748 LUMENS, RGBW VOLTAGE: 120V MANUFACTURER:SSL SSF2109-UNV-RGBW-CCE-1530-CV9-RG9-JB-PF SUBSTITUTIONS: ○ OR EQUAL ◉ SUBJECT TO REVIEW ○ NO EQUAL

4-Jun-24 PANEL: **(E) 'PANEL'** LOCATION: **BASEMENT**

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	CIR	BKR	LOAD	DESCRIPTION	TYPE
E	[1]IRRIGATION CONTROL	100	20	1	1030		2	20	930	[1]SOU/EAST FAÇADE LTG	L
	SPACE			3		500	4	20	500	[1]CW-4 LTG CONTROL	E
	SPACE			5	0		6			SPACE	
	SPACE			7		0	8			SPACE	
	SPACE			9	0		10			SPACE	
	SPACE			11		0	12			SPACE	

		1030	500		
COPPER BUS SIZE:	200	GROUND:		STANDARD	NOTES:
VOLTAGE:	240	MOUNTING:		SURFACE	BOLD INDICATES NEW OR
PHASE:	1	ENCLOSURE:		NEMA 1	MODIFIED LOAD
WIRE:	3	# OF 1-POLE CIRCUITS		12	[1] PROVIDE NEW BREAKER
LUGS:	MLO	CONNECTED KVA:	1.5		MATCH TYPE AND AIC RATING
BREAKER AIC RATING:	22K	CONNECTED AMPS:	6.4		
NEUTRAL:	100%	NET KVA:	1.5		
FEEDER OCPD SIZE:	200	NET AMPS:	6.4		

ELECTRICAL LEGEND

- PANELBOARD: SURFACE MOUNTED
- PANELBOARD: FLUSH MOUNTED
- SWITCHBOARD OR DISTRIBUTION PANEL
- XF TRANSFORMER
- PULLBOX / VAULT
- MOTOR STARTER
- COMBINATION MOTOR STARTER
- COMBINATION MOTOR STARTER PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER)
- F DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)
- N DISCONNECT SWITCH - NON-FUSIBLE
- DISCONNECT SWITCH PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER)
- VARIABLE FREQUENCY DRIVE
- VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS (COORDINATE WITHSTAND RATINGS WITH EQUIP SUPPLIER)
- CB ENCLOSED CIRCUIT BREAKER
- GROUND ROD
- SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON
- M REMOTE METER

- S SINGLE POLE SWITCH 48" AFF
- S_3 THREE WAY SWITCH 48" AFF
- S_4 FOUR WAY SWITCH 48" AFF
- S_K KEY OPERATED SWITCH 48"
- S_L SWITCH WITH LIGHTED HANDLE
- S_M MANUAL MOTOR STARTER
- S_P SWITCH WITH PILOT LIGHT 48" AFF
- S_T TIME WALL SWITCH EQUAL TO HUBBELL DT2000W 48" AFF
- D DIMMER OPERATED SWITCH 48" AFF
- OCCUPANCY SENSOR - WALL MOUNTED 48" AFF
- ^{D} 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF - EQUAL TO SENSOR SWITCH WSX-D
- OS OCCUPANCY SENSOR - CEILING MOUNTED. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.
- OS OCCUPANCY SENSOR - CORNER MOUNTED. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.
- CONTROL STATION
- CONTACTOR OR RELAY
- PC PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)
- TC TIMECLOCK

- CONDUIT/RACEWAY IN WALL OR ABOVE CEILING
- CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR
- BREAK OR RUN CONTINUES
- —OH— OVERHEAD SERVICE
- — P — PRIMARY
- — S — SECONDARY
- — C — COMMUNICATIONS OR SIGNAL
- — T — TELEPHONE
- —TV— TELEVISION
- — • — LOW VOLTAGE AND/OR CONTROL WIRING
- – * – * – EMERGENCY CIRCUIT
- CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)
- CONDUIT/RACEWAY SLEEVE

E = EQUIPMENT
H = ELECTRIC HEAT
K = KITCHEN EQUIP
L = LIGHTING
M = MOTOR
M1= LARGEST MOTOR
R = RECEPTACLES

- SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- DUPLEX RECEPTACLE: HALF SWITCHED, +18" AFF
- DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF
- QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF
- ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE), 20A, 125V, NEMA 5-20IG, +18" AFF
- COMBO DUAL USB CHARGER / DUPLEX RECEPTACLE, 5.1A, (1) TYPE A & (1) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), 20A, 125V, NEMA 5-20R, +18AFF
- QUAD USB CHARGER, 5.1A, (2) TYPE A & (2) TYPE C USB (3.1, 3.0, 2.0 AND 1.1 COMPATIBLE), +18AFF
- SPECIAL PURPOSE RECEPTACLE: SEE DWGS FOR NEMA CONFIGURATION
- DUPLEX RECEPTACLE: FLOOR MOUNTED
- QUAD RECEPTACLE: FLOOR MOUNTED
- DUPLEX RECEPTACLE: CEILING MOUNTED
- QUAD RECEPTACLE: CEILING MOUNTED
- BLANK GFCI PROTECTIVE DEVICE IN READILY ACCESSIBLE LOCATION (LABEL PROTECTED DEVICES)
- DUPLEX "CLOCK" RECEPTACLE: 125V, NEMA 5-20R, +60" AFF
- $^{X"}$ DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT
- MULTI-OUTLET ASSEMBLY: SPACING PER DWGS

- DATA / VOICE OUTLET: 18" AFF - 1 VOICE, 1 DATA JACK, 2 BLANKS
- DATA / VOICE OUTLET: FLOOR MOUNTED
- MULTI-OUTLET ASSEMBLY: SPACING PER DWGS
- TELEPHONE OUTLET: 18" AFF
- DATA OUTLET: 18" AFF
- DEVICE MOUNTED AT NON-STANDARD HEIGHT. IF NO HEIGHT SHOWN VERIFY HEIGHT WITH ARCHITECT
- S SPEAKER
- TV TELEVISION OUTLET: 18" AFF (UNO)
- TELEPHONE TERMINAL BOARD (TTB)
- VC VOLUME CONTROL
- GROUNDING BAR

* FIXTURE SCHEDULE HAS PRECEDENCE *

- LENSED TROFFER
- VOLUMETRIC TROFFER
- FLANGED TROFFER
- SURFACE MOUNT TROFFER
- STRIP FIXTURE
- DOWNLIGHT
- WALL PACK
- POLE MOUNT
- EMERGENCY LIGHTING UNIT
- EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS INDICATE DIRECTION
- SHADING INDICATES EGRESS FIXTURE

- T THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)
- J JUNCTION BOX (SIZE AS REQUIRED UNO)
- 3 SHEET NOTE DESIGNATION
- F1 FIXTURE DESIGNATION: F1=TYPE (SEE FIXTURE SCH.)
- 3 REVISION DELTA: NUMBER REPRESENTS REVISION
- 1253 FEEDER DESIGNATION
- AHU 2 EQUIPMENT CONNECTION

- GFI GROUND FAULT INTERRUPTER DEVICE
- M METERING DEVICE
- RM REMOTE METER
- ST SHUNT TRIP DEVICE
- TRANSFORMER
- CURRENT TRANSFORMER
- G GENERATOR
- # MOTOR - # INDICATES HP
- INTERRUPTER SWITCH
- GFI GROUND FAULT RELAY W/ CT OR SENSOR
- FUSE
- CIRCUIT BREAKER
- DRAWOUT CIRCUIT BREAKER
- A 3 TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4
- SPD SURGE PROTECTION DEVICE

- NORMALLY OPEN (NO) CONTACT
- NORMALLY CLOSED (NC) CONTACT
- C COIL - VOLTAGE PER CONTROL DIAGRAMS
- PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)
- PILOT LIGHT (LED) NON PUSH-TO-TEST
- THERMAL OVERLOAD
- MAGNETIC OVERLOAD
- PUSH BUTTON NORMALLY OPEN (NO)
- PUSH BUTTON NORMALLY CLOSED (NC)
- H O A HAND-OFF-AUTO (HOA) SELECTOR SWITCH
- LIMIT SWITCH NORMALLY OPEN (NO)
- LIMIT SWITCH NORMALLY CLOSED (NC)
- R PUSH BUTTON ILLUMINATED (LED)

- TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.
  - ISOLATED GROUNDING CONDUCTOR
  - NEUTRAL CONDUCTOR
  - PHASE CONDUCTOR(S)
- BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR
- HOMERUN TO PANELBOARD OR DEVICE
- HA-[1,3,5,3N]G HOMERUN CIRCUIT DESIGNATION
  - GROUNDING CONDUCTOR
  - NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)
  - PHASE CONDUCTOR(S)
  - PANELBOARD DESIGNATION
- HA-(1.3.5)G HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)
  - GROUNDING CONDUCTOR
  - PHASE CONDUCTOR(S)
  - PANELBOARD DESIGNATION

NOTE: "(E)" IN HOMERUN INDICATES NEW HOMERUN TO EXISTING PANEL

A	AMPS
ADA	AMERICANS WITH DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFCI	ARC-FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMP INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
BKR	BREAKER
C	CONDUIT/RACEWAY
CEC	CALIFORNIA ENERGY COMMISSION
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT/RACEWAY ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DISTRIBUTION BOARD
DDC	DIRECT DIGITAL CONTROLLER
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DWG	DRAWING
(E)	EXISTING TO REMAIN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
(F)	FUTURE
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT (STEEL)
FPEN	FUSE PER EQUIP. NAMEPLATE
GFI	GROUND FAULT INTERRUPT
GFR	GROUND FAULT RELAY
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO SWITCH
HP	HORSEPOWER
HSKP	HOUSEKEEPING
IMC	INTERMEDIATE METAL CONDUIT
J-BOX	JUNCTION BOX
K	kcmil (300K = 300 kcmil)
KVA	KILOVOLT AMPS
KW	KILOWATT
LTG	LIGHTING
IG	ISOLATED GROUND
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCULAR MILS
MFG	MANUFACTURER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTS	MANUAL TRANSFER SWITCH
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NVE	NV ENERGY
P	POLE
PHØ	PHASE
PV	PHOTOVOLTAIC
PNL	PANEL
PTC	PV USA TEST CONDITIONS
PWR	POWER
(R)	RELOCATE/RELOCATED
(RR)	REMOVE AND REPLACE
RAC	RIGID ALUMINUM CONDUIT
RFC	RIGID FIBERGLASS CONDUIT
RSC	RIGID STEEL CONDUIT
SE	SERVICE ENTRANCE
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
STC	STANDARD TEST CONDITIONS
SW	SWITCH
TE	TELECOM
TTB	TELEPHONE TERMINATION BOARD
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UNSW	UNSWITCHED
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHER PROOF
(X)	EXISTING TO BE REMOVED
XFMR OR XF	TRANSFORMER

BREAKERS: 20 = SINGLE POLE CIRCUIT BREAKER 20/2 = TWO POLE CIRCUIT BREAKER 20/3 = THREE POLE CIRCUIT BREAKER 20A = ARC FAULT CIRCUIT BREAKER 20C = CONTROLLABLE CIRCUIT BREAKER 20G = GFI CIRCUIT BREAKER

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

MILESTONE
6/4/24 BID SET

CITY OF RENO
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECTS
ONE EAST FIRST STREET, 8TH FLOOR
PO BOX 1900
RENO, NEVADA 89505
PHONE (775) 334-2548

PROFESSIONAL ENGINEER - STATE OF NEVADA
JOSEPH E. GANSER
No.21011
06/30/25
ELECTRICAL
06/05/2024

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

ELECTRICAL LEGEND & DRAWING SCHEDULE

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E0.01
SHEET 21 OF 27

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4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290
pkelectrical.com | PK#24038

SECTION 260000 ELECTRICAL SPECIFICATIONS

ITEM	DESCRIPTION
	PART 1 - GENERAL
1.1	SUMMARY

- THE WORK UNDER THIS DIVISION SHALL CONSIST OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ACCESSORIES, ETC. NECESSARY AND REQUIRED TO COMPLETE ALL WORK AS SHOWN OR INFERRED ON THE DRAWINGS AND IN THE SPECIFICATIONS (CONTRACT DOCUMENTS).
- PROVIDE FIXED ELECTRICAL EQUIPMENT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
- PROVIDE EQUIPMENT AND/OR WIRING NORMALLY FURNISHED OR REQUIRED FOR COMPLETE ELECTRICAL SYSTEMS BUT NOT SPECIFICALLY SPECIFIED ON THE DRAWINGS AND/OR IN SPECIFICATIONS, AS THOUGH SPECIFIED BY BOTH.
- ALL EQUIPMENT AND WIRING SHALL BE NEW, EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE.

1.2 RELATED WORK SPECIFIED ELSEWHERE

COORDINATION: THE ARCHITECTURAL AND LANSCAPE DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 26 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.

1.3 ADOPTED CODES

- INTERNATIONAL BUILDING CODE (IBC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).
- NATIONAL ELECTRICAL CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
- INTERNATIONAL FIRE CODE (IFC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL.
- NATIONAL FIRE CODES (NFPA STANDARDS) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AS REFERENCED IN THE 2006 INTERNATIONAL FIRE CODE.
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL. ASHRAE / IESNA STANDARD 90.1 IS INCORPORATED BY REFERENCE.
- ALL APPLICABLE PROVISIONS OF THE NEVADA REVISED STATUTES (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC), INCLUDING THOSE LISTED BELOW.
- THE MOST CURRENT REGULATIONS OF THE STATE FIRE MARSHAL, NEVADA DEPARTMENT OF PUBLIC SAFETY, CARSON CITY, NEVADA (NAC CHAPTER 477, STATE FIRE MARSHAL).
- THE MOST CURRENT EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA) PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)

1.4 DEFINITIONS

PROVIDE	FURNISH, INSTALL, CONNECT AND TEST UNTIL COMPLETE
WIRE	FURNISH ALL NECESSARY WIRING, CONNECT AND TEST UNTIL COMPLETE
INSTALL	FURNISH, SET IN PLACE, WIRE AND TEST UNTIL COMPLETE
WORK	MATERIALS COMPLETELY INSTALLED, CONNECTED, AND TESTED UNTIL COMPLETE
EQUAL	ACCEPTABLE EQUAL AS DETERMINED BY THE ENGINEER

1.5 REQUIREMENTS OF REGULATORY AGENCIES

- OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK. COMPLY WITH ALL ORDINANCES PERTAINING TO WORK DESCRIBED HEREIN. PAY ALL EXPENSES ARISING FROM THE PROCUREMENT OF THESE CERTIFICATES AND INCLUDE IN THE BASE CONTRACT PRICE.
- INSTALL WORK UNDER THIS DIVISION PER DRAWINGS, SPECIFICATIONS, LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, (NFPA-70) INCLUDING LOCAL AMENDMENTS AND INTERPRETATIONS, LOCAL ADOPTED BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK WITHIN COMPLETE INSTALLATION. IN EVENT OF CONFLICT, INSTALL WORK PER MOST STRINGENT CODE REQUIREMENTS DETERMINED BY ENGINEER. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES.
- ALL MATERIALS, PRODUCTS, DEVICES, FIXTURES, FORMS OR TYPES OF CONSTRUCTION INCLUDED IN THIS PROJECT SHALL MEET OR EXCEED THE PUBLISHED REQUIREMENTS OF NATIONAL ELECTRICAL CODE (NEC), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA). ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES (UL) LABEL OR EQUIVALENT FROM APPROVED INDEPENDENT TESTING LABORATORY.
- ARRANGE, PAY FEES FOR AND COMPLETE WORK TO PASS REQUIRED TESTS BY AGENCIES HAVING AUTHORITY OVER WORK. DELIVER TO ENGINEER COPIES OF THE CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUTHORITIES AND PROVIDE ORIGINAL COPY OF EACH CERTIFICATE TO OWNER.
- WHEN REQUIRED BY LAW OR REGULATIONS, THE GOVERNMENTAL AGENCY HAVING JURISDICTION FOR INSPECTIONS SHALL BE GIVEN REASONABLE NOTICE AND OPPORTUNITY TO INSPECT THE WORK. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE; AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT THEIR OWN EXPENSE.

1.6 DRAWINGS AND SPECIFICATIONS

- DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF THEIR FAILURE TO HAVE BROUGHT SAID DISCREPANCIES TO THE ATTENTION OF THE CONSULTANT DURING THE BIDDING PERIOD OR BY REASON OF ANY ERROR ON THE CONTRACTOR'S PART.
- DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHOW GENERAL RUN OF CIRCUITS AND APPROXIMATE LOCATION OF EQUIPMENT. THE CONTRACTOR SHALL REVIEW DRAWINGS OF ALL TRADES TO ASSURE COORDINATION PRIOR TO PLACEMENT OF WORK. RIGHT IS RESERVED TO CHANGE LOCATION OF EQUIPMENT AND DEVICES, AND ROUTING OF CONDUITS WITHIN 10 FEET, WITHOUT EXTRA COST TO OWNER (PRIOR TO ROUGH-IN).
- USE DIMENSIONS IN FIGURES, SHOP DRAWINGS, ETC. AND ACTUAL SITE MEASUREMENTS IN PREFERENCE TO SCALED DIMENSIONS. DO NOT SCALE DRAWINGS FOR EXACT SIZES OR LOCATIONS - USE DIMENSIONED DETAILS OR ACTUAL FIELD CONDITIONS. VERIFY ITEM MOUNTING HEIGHTS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN.
- THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS IN MATTERS OF DIMENSIONS. DISCREPANCIES BETWEEN DIFFERENT DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING FOR DETERMINATION.
- LAYOUT EQUIPMENT AS SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE. VERIFY ACCESS REQUIREMENTS FOR EQUIPMENT ACTUALLY FURNISHED,AND ADJUST LAYOUT TO COMPLY WITH NEC 110. RIGHT IS RESERVED TO CHANGE LAYOUT WITHIN 10 FEET WITHOUT ADDITIONAL COST (PRIOR TO ROUGH-IN).
- ALL DEVICES, LIGHT FIXTURES, ETC. LOCATED IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS SPECIFICALLY NOTED OR APPROVED TO DO OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE AND CONFIRM THE MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, DOORWAYS, AND OTHER ARCHITECTURAL, MECHANICAL OR STRUCTURAL WORK. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.
- EXECUTION OF CONTRACT IS EVIDENCE THAT CONTRACTOR HAS EXAMINED ALL EXISTING CONDITIONS, DRAWINGS AND SPECIFICATIONS RELATED TO WORK, AND IS INFORMED AS TO EXTENT AND CHARACTER OF WORK. LATER CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- ALL WORK CALLED FOR IN THIS SECTION OF THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED UNDER THIS SECTION, REGARDLESS OF WHETHER SUCH WORK MAY ALSO HAVE BEEN CALLED FOR IN OTHER SECTION(S). DISCREPANCIES IN OR CONFLICTS AMONG THE VARIOUS PARTS OF THE CONTRACT DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF THEIR OBLIGATION TO PERFORM.
- NO ATTEMPT HAS BEEN MADE TO ESTABLISH THE REQUIRED SECTIONS OR SPLITS OF EQUIPMENT RELATIVE TO THE SIZE OF ACCESS INTO THE SPACE, BUILDING, ETC. CONTRACTOR SHALL ESTABLISH ALL SAID SPLITS, SECTIONS, ETC. NECESSARY TO INSTALL EQUIPMENT COMPLETE WITHOUT UNDUE DISASSEMBLY OF EQUIPMENT OR DEMOLITION OF BUILDING PARTS AT SITE OF WORK.
- CHARGES FOR EXTRA WORK ARE NOT ALLOWED UNLESS WORK IS AUTHORIZED BY WRITTEN ORDER FROM THE OWNER'S REPRESENTATIVE APPROVING CHARGES FOR WORK.
- CHECK ALL DOOR SWINGS SO LIGHTING CONTROL DEVICES ARE NOT LOCATED BEHIND DOORS. RELOCATE DEVICES AS REQUIRED WITH THE CONSULTANT'S REVIEW.

1.7 COPYRIGHT

THESE PLANS, SPECIFICATIONS, AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF PK ELECTRICAL. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO PK ELECTRICAL. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF PK ELECTRICAL AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF PK ELECTRICAL.

1.8 SUBMITTALS

BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, LIGHTING CONTROLS, SWITCHGEAR, PANELS, CIRCUIT BREAKERS, MOTOR CONTROLLERS, DISCONNECTS WIRING DEVICES, PLATES, RACEWAYS AND FITTINGS, ETC. PROPOSED FOR THIS PROJECT.

1.9 SUBSTITUTIONS

PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.

1.10 EXAMINATION OF SITE AND EXISTING CONDITIONS

BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.

1.11 EXISTING OUTLETS

EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, CAULK AND PROVIDE JUMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE.

1.12 EXISTING SWITCHGEAR

REUSE EXISTING SWITCHGEAR AND PANELS IN PLACE WHERE SO INDICATED. MODIFY AS REQUIRED TO ACCOMMODATE NEW WORK. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSES AS REQUIRED. MATCH AIC RATINGS. REARRANGE EXISTING CIRCUITS WITHIN PANELS TO AGREE WITH NEW PANEL SCHEDULES. TRACE AND IDENTIFY ALL EXISTING CIRCUITS ON NEW RECORD PANEL SCHEDULES.

1.13 EXISTING PANELBOARDS

- RING OUT CIRCUITS IN EXISTING PANELS. WHERE ADDITIONAL CIRCUITS ARE NEEDED REUSE CIRCUITS AVAILABLE FOR REUSE. INSTALL NEW BREAKERS AS INDICATED ON DRAWINGS. MATCH AIC RATINGS.
- TAG UNUSED CIRCUITS AS SPARE.
- WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO VERIFY THAT CIRCUITS FEEDING PROJECT AREA ARE NOT IN USE OR OVERLOADED.
- REMOVE EXISTING WIRE NO LONGER IN USE FROM PANEL TO EQUIPMENT.
- PROVIDE NEW UPDATED TYPED DIRECTORIES.

PART 2 - PRODUCTS

2.1 MATERIALS

- ALL MATERIAL SHALL BE NEW, AND HAVE A UL LABEL WHERE AVAILABLE. IF UL LABEL IS NOT AVAILABLE, MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE NEMA, IEEE AND FEDERAL STANDARDS. USE UL LABELED COMPONENTS IN ASSEMBLIES THAT DO NOT HAVE OVERALL UL LABEL. ALL EQUIPMENT SHALL COMPLY WITH THE TERMS "LISTED AND LABELED" AS DEFINED IN THE NEC 70, ARTICLE 100. SUBMIT LETTER STATING COMPLIANCE WITH THESE REQUIREMENTS.
- UTILIZE ONE OF THE MANUFACTURERS LISTED TO FURNISH ALL OF THE MAJOR EQUIPMENT (I.E. PANELS, TRANSFORMERS, BUS DUCT, SWITCHGEAR, CIRCUIT BREAKERS, ETC.) REQUIRED FOR THIS PROJECT.
- ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES, WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.
- ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.

2.2 CIRCUITING

ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS SHALL BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM-24". WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE AND CONCRETE SLAB TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. FMC MAY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURE FROM J-BOX. FIXTURE WHIPS MAY NOT EXCEED 6' IN LENGTH. METAL CLAD CABLE (TYPE MC) WILL NOT BE ACCEPTABLE. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY. CONNECT PUMP MOTORS WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.

2.3 WIRING

- WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. WHERE ALUMINUM IS ALLOWED, WIRE SHALL BE TERMINATED IN AN INSULATED CU/AL RATED COMPRESSION TERMINAL FITTING (MAC-ADAPT OR EQUAL). INSULATION SHALL BE THW, THWN OR THHN.
- UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (120V) OR GREY (277V) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM.

2.4 WIRING DEVICES

WIRING DEVICES SHALL BE AS FOLLOWS:

- RECEPTACLES - 120V, 20A, NEMA 5-20R, SPECIFICATION GRADE, SIDE AND BACK WIRED WITH CLAMP TYPE TERMINALS, NYLON, WHITE, 2 POLE, 3 WIRE GROUNDING.
- SWITCHES - 120V/277V, 20A, WHITE, HEAVY DUTY, SILENT TYPE SPECIFICATIONS GRADE.
- DEVICE PLATE SHALL BE NYLON, WHITE COLOR WITH MATCHING SCREWS.
- RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED SUITABLE FOR WET LOCATIONS WHILE IN USE AND UL LISTED EQUAL TO TAY MAC SPECIFICATIONS GRADE.

PART 3 - EXECUTION

3.1 VISIT TO SITE

VISIT SITE, AND SURVEY EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING SERVICES AND UTILITIES ON BUILDING SITE IN BID. NO CONSIDERATION SHALL BE GIVEN TO FUTURE CLAIMS DUE TO EXISTING CONDITIONS. ANY DISCREPANCIES OR INTERFERENCES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.

3.2 WORKMANSHIP

- ALL WORK PERFORMED SHALL BE FIRST CLASS WORK IN EVERY ASPECT. THE WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES, WHO SHALL AT ALL TIMES BE UNDER THE SUPERVISION OF COMPETENT PERSONS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH NECA'S "STANDARD OF INSTALLATION."
- IN ADDITION TO THE MATERIALS SPECIFIED ELSEWHERE, FURNISH AND INSTALL ALL OTHER MISCELLANEOUS ITEMS NECESSARY FOR THE COMPLETION OF THE WORK TO THE EXTENT THAT ALL SYSTEMS ARE COMPLETE AND OPERATIVE.
- ALL WORK UNDER THIS SECTION SHALL BE PERFORMED IN COOPERATION WITH THE WORK PERFORMED UNDER ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR THE PROJECT IN ORDER TO AVOID INTERFERENCE WITH OTHER WORK AND TO SECURE THE PROPER INSTALLATION OF ALL WORK. REFER THE DRAWINGS AND SPECIFICATIONS COVERING THE WORK TO BE PERFORMED UNDER ALL SECTIONS, SO THAT THE RELATION AND EXTENT OF THE WORK OF THIS SECTION WITH RESPECT TO THE WORK OF ALL OTHER SECTIONS IS UNDERSTOOD. GIVE RIGHT OF WAY TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REQUIRED SLOPE.
- CONDUIT SYSTEMS MUST BE COMPLETE PRIOR TO INSTALLATION OF WIRING.

3.3 CHANGE ORDERS

- ADDITIONAL WORK MAY BE REQUIRED ON THE PROJECT WHICH IS OUTSIDE THE SCOPE OF THE CONTRACT. SUCH ADDITIONAL WORK WILL BE DESCRIBED IN SUPPLEMENTAL INSTRUCTIONS AND/OR CLARIFICATIONS, TO BE ESTIMATED AND PRICED BY THE CONTRACTOR, AND ACCEPTED BY THE OWNER, PRIOR TO COMMENCING WORK. PROPOSALS SHALL INCLUDE A LIST OF QUANTITIES OF ALL MATERIAL BEING USED WITH UNIT COSTS BROKEN DOWN INTO MATERIAL AND LABOR COSTS PER UNIT. CONTRACTOR SHALL PROVIDE ACTUAL EQUIPMENT QUOTES WHEN REQUESTED BY ENGINEER.
- MATERIAL COSTS AND LABOR UNITS SHALL NOT EXCEED THE LATEST EDITION OF RS MEANS ELECTRICAL COST DATA.

3.4 GUARANTEE

- FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED. SUBMIT WITH OPERATION AND MAINTENANCE MANUALS.
- OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT.
- IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER.
- ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD.

3.5 OBSERVATIONS OF WORK AND DEMONSTRATION OF OPERATION (ACCEPTANCE)

- AT ALL OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHJ OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT.
- CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNER/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED.

3.6 COOPERATION

- CAREFULLY COORDINATE WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS. REFER CONFLICTS BETWEEN TRADES TO ENGINEER. PROVIDE NECESSARY INFORMATION TO OTHER TRADES FOR SUCH COORDINATION. SUCH INFORMATION SHALL INCLUDE SHOP DRAWINGS, PRODUCT DATA AND ALL OTHER REQUIRED DATA. PROVIDE A SYSTEM ERECTION/COORDINATION DRAWING SHOWING ELECTRICAL, HVAC, PLUMBING AND ARCHITECTURAL FOR INSTALLATION IN CONGESTED AREAS, WHEN REQUESTED.
- WHENEVER SUCH INFORMATION IS NOT PROVIDED IN A TIMELY MANNER OR WHENEVER SUCH INFORMATION IS INCORRECT, THIS CONTRACTOR SHALL BEAR ALL COSTS FOR PROVIDING OR CORRECTING AFFECTED WORK OF RELATED TRADES WITH NO CHANGE TO THE CONTRACT PRICE OR CONSTRUCTION SCHEDULE.
- WORK TO BE INSTALLED AS PROGRESS OF PROJECT WILL ALLOW. SCHEDULE OF WORK DETERMINED BY GENERAL CONTRACTOR, OWNER, AND/OR ARCHITECT/ENGINEER.

3.7 COORDINATION OF UTILITY SERVICES

- DRAWINGS INDICATE PROPOSED SERVICE LAYOUTS. THE CONTRACTOR SHALL PROVIDE ALL CONCRETE STRUCTURES, PULLBOXES, VAULTS, TRENCHING, RACEWAYS, PROTECTIVE BOLLARDS, ETC., AS REQUIRED PER NV ENERGY STANDARDS (ELECTRICAL UTILITY), AT&T (TELEPHONE COMPANY) AND CHARTER (CATV UTILITY) STANDARDS.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING PROJECT DRAWINGS, APPLICATION, AND EQUIPMENT SHOP DRAWINGS TO THE UTILITY. UTILITY FEES TO BE PAID BY PROJECT OWNER.

3.8 DELIVERY, STORAGE AND HANDLING

- DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORRODING. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING. STORE MATERIALS AFFECTED BY CONDENSATION IN WARM DRY AREAS. PROVIDE HEATERS. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF ON SITE STORAGE SPACE, IF NO ON SITE STORAGE SPACE IS AVAILABLE THEN THE CONTRACTOR SHALL COVER THE COST FOR OFF SITE STORAGE. MATERIALS STORED AT THE PROJECT SITE THAT BECOMES SOILED WITH CONSTRUCTION DIRT, CONCRETE, OR MOISTURE SHALL BE REMOVED FROM THE SITE AND REPLACED WITH NEW. DO NOT INSTALL SOILED MATERIAL.
- INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONFLICTS BETWEEN CONTRACT DOCUMENTS AND THESE RECOMMENDATIONS SHALL BE REFERRED TO ENGINEER FOR REMEDY.
- ELECTRICAL OR ELECTRONIC EQUIPMENT THAT HAS BEEN DAMAGED, EXPOSED TO WEATHER OR IS, IN THE OPINION OF THE ENGINEER OR ARCHITECT, OTHERWISE UNSUITABLE BECAUSE OF IMPROPER FABRICATION, STORAGE OR INSTALLATION SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR AT HIS EXPENSE.

3.9 ANCHORS

- PROVIDE ANCHORS FOR ALL EQUIPMENT, RACEWAYS, HANGERS, ETC. TO SAFELY SUPPORT WEIGHT OF ITEM INVOLVED PLUS 100% FOR DEAD LOADS. LIVE LOADS SHALL BE CONSIDERED IN ADDITION TO DEAD LOADS.
- ANCHORS TO CONSIST OF EXPANSION TYPE DEVICES SIMILAR TO "REDHEAD" OR LEAD EXPANSION ANCHORS. PLASTIC ANCHORS ARE NOT ACCEPTABLE.
- USE PRESET ANCHOR STEEL INSERTS IN CONCRETE SLABS. PROVIDE PRESET ANCHOR SIZE AND TYPE FOR ANTICIPATED OR SPECIFIED ROD/BOLT SIZE AND LIVE/DEAD LOAD.

3.10 CLEANING AND PAINTING

- CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN WIPE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, OUTLET BOXES, AND PANELBOARD BACKBOXES SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING.

TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER.

3.11 RECORD DRAWINGS

- CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE-SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO INCLUDE THE FOLLOWING INFORMATION:
  - EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH.
  - EXACT LOCATION OF ALL SERVICE GROUNDING/ BONDING CONNECTIONS.
  - CONTRACTORS NAME, ADDRESS, AND TELEPHONE NUMBER.
- RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.

3.12 ELECTRICAL SYSTEM TESTING

PRIOR TO PLACING IN SERVICES, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING FIRM DEEMED BY THE OWNER AS QUALIFIED TO PERFORM INTERNATIONAL ELECTRICAL TESTING ASSOCIATION TESTING. TESTING SERVICES SHALL BE PAID FOR AND COORDINATED BY THE CONTRACTOR. NETA TESTING PROCEDURES AND REQUIREMENTS FOR TESTED VALUES SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE NETA ACCEPTANCE TESTING SPECIFICATIONS. ANY DEFICIENCIES OR FAILURES DISCOVERED DURING THE NETA TESTING PROCEDURES SHALL BE PROMPTLY CORRECTED BY THE ENSURE TIMELY COMPLETION OF THE PROJECT AND TO MINIMIZE THE TIME REQUIRED FOR THE INDEPENDENT TESTING FIRM TO COMPLETE THEIR WORK.

TESTING REQUIREMENTS SHALL BE AS FOLLOWS:

- GROUNDING SYSTEM
- GROUND FAULT PROTECTION
- CIRCUIT BREAKERS (OVER 100A)
- LOW VOLTAGE FEEDERS (UP TO 600 VOLTS) SERVING LOADS OF 100 AMPS OR GREATER
- MAIN SWITCHBOARD; DISTRIBUTION BOARDS; BRANCH CIRCUIT PANELS.
- LIGHTING CONTROL SYSTEMS
- FIRE ALARM SYSTEM

3.13 IDENTIFICATION

- PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE:
  - DESIGNATION (I.E. PANEL A); FUNCTION (I.E. AIR HANDLER AH-1); VOLTAGE, PHASE, WIRE (I.E. 480 VOLT, 3 PHASE, 4W); FEEDER SIZE (I.E. 4-#4/0 THWN CU IN 2" C); SOURCE (I.E. SWITCHBOARDS MSB).
- JUNCTION, PULL AND CONNECTION BOXES: IDENTIFICATION OF SYSTEMS AND CIRCUITS SHALL INDICATE SYSTEM VOLTAGE AND CONTAINED CIRCUITS ON OUTSIDE OF BOX COVER. USE SELF-ADHESIVE MARKING TAPE LABELS AT EXPOSED LOCATIONS AND INDELIBLE BLACK MARKER AT CONCEALED BOXES. ALL FIRE ALARM BOXES SHALL HAVE COVERS PAINTED RED. ALL TEMPERATURE CONTROL BOXES SHALL HAVE COVERS PAINTED BLUE.
- BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND PULL BOX WITH WIRE MARKERS AS MANUFACTURED BY T&B, PANDUIT, 3M, OR IDEAL TO INDICATE PANEL/CIRCUIT NUMBER.
- JUNCTION BOX COVERS IN BRANCH CIRCUIT WIRING SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBERS. JUNCTION BOX COVERS FOR SPECIAL SYSTEMS SHALL BE LABELED WITH SYSTEM NAME AND OTHER IDENTIFICATION AS DIRECTED; FOR EXAMPLE, "FIRE ALARM-ZONE 1". WHERE BOXES ARE INSTALLED FLUSH MOUNTED IN FINISHED AREAS OR SURFACE MOUNTED IN UNFINISHED AREAS, LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELIBLE MARKER.
- DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATE ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT.

3.14 ONGOING OPERATION

CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY GENERAL CONTRACTOR / OWNER. OUTAGES SHALL BE MOMENTARY IN NATURE. EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED 48 HOURS IN ADVANCE.

3.15 FLEXIBLE CONNECTIONS

PROVIDE FLEXIBLE ELECTRICAL CONDUIT AND CONDUCTORS HAVING A SLACK, 90-DEGREE BEND OR LOOP IN ANY PLANE BETWEEN CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND THE FIRST ATTACHMENT TO BUILDING STRUCTURE OR CABINETS, PANELS OR BOXES MOUNTED THEREON.

3.16 SALVAGE

ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. ANY EQUIPMENT SELECTED BY OWNER SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

3.17 SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY

COMPLETE SHORT CIRCUIT AND PROTECTIVE DEVICE COORDINATION STUDY TO MEET REQUIREMENTS OF NFPA 70.

- PREPARE STUDY PRIOR TO ORDERING DISTRIBUTION EQUIPMENT TO VERIFY EQUIPMENT RATINGS REQUIRED. PROVIDE OWNER WITH MODEL.
- PROVIDE A HARD COPY SINGLE LINE IN A TUBE WITH A CD COPY OF THE MODEL THAT SHALL BE MAGNETICALLY ATTACHED TO THE SIDE OF THE SERVICE ENTRANCE.
- STUDY SHALL ENCOMPASS ALL PORTIONS OF ELECTRICAL DISTRIBUTION SYSTEM FROM NORMAL POWER SOURCE AND/OR STANDBY SOURCES UP TO AND INCLUDING BREAKERS IN SERVICE ENTRANCE SWITCHBOARD, MAIN BREAKER IN SUB-DISTRIBUTION PANELS, MAIN BREAKER IN EACH PANELBOARD.
- CALCULATE SHORT CIRCUIT INTERRUPTING AND, WHEN APPLICABLE, MOMENTARY DUTIES FOR ASSUMED 3-PHASE BOLTED FAULT SHORT CIRCUIT CURRENT AND PHASE TO GROUND FAULT SHORT CIRCUIT CURRENT AT EACH OF THE FOLLOWING:
  - * UTILITY SUPPLY BUS
  - * AUTOMATIC TRANSFER SWITCH
  - * ENGINE GENERATOR
  - * LOW-VOLTAGE SWITCHGEAR
  - * SWITCHBOARDS
  - * MOTOR CONTROL CENTERS
  - * DISTRIBUTION PANELBOARDS
  - * BRANCH CIRCUIT PANELBOARDS
  - * EACH OTHER SIGNIFICANT EQUIPMENT LOCATION THROUGHOUT SYSTEM

3.18 ARC FLASH HAZARDS ANALYSIS STUDIES

- COMPLETE ARC FLASH HAZARDS ANALYSIS STUDY TO MEET REQUIREMENTS OF NFPA 70E.
- PERFORM STUDY WITH AID OF COMPUTER SOFTWARE PROGRAM AND BY A NEVADA LICENSED ELECTRICAL ENGINEER. PROVIDE OWNER WITH MODEL.
- SHALL INCLUDE DETERMINING THE SHORT-CIRCUIT CURRENT AVAILABLE AT THE DESIGNATED POINT OF CONTACT AND INCLUDE PERFORMING THE FOLLOWING TO PROVIDE ADEQUATE PROTECTION:
  - * CALCULATE THE FLASH PROTECTION BOUNDARY
  - * CALCULATE THE ARC-FLASH INCIDENT ENERGY
  - * CONFIRM THE REQUIRED LABELING
  - * CONFIRM THE REQUIRED PERSONAL PROTECTIVE EQUIPMENT WITH ARC RATING TO PROVIDE
  - * ADEQUATE PROTECTION FOR PERSONNEL WORKING ON OR NEAR-ENERGIZED CONDUCTORS OR COMPONENTS
- PROVIDE NEW AND/OR UPDATED LABELS THROUGHOUT ENTIRE SYSTEM AS REQUIRED.

END OF SECTION 260000

DESIGNWORKSHOP
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PO Box 5666 • 128 Market Street, Suite 3E • Stateline, NV 89449-5666 • 775-588-5929

PK Electrical, Inc.
ENGINEERING | DESIGN | CONSULTING
681 Sierra Rose Drive, Suite B | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290
pkelectrical.com | PK#24038

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CITY OF RENO
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECTS
ONE EAST FIRST STREET, 8TH FLOOR
PO BOX 1900
RENO, NV 89505
PHONE (775) 334-2548

RENO — BIGGEST LITTLE CITY IN THE WORLD

PROFESSIONAL ENGINEER - STATE OF NEVADA
JOSEPH E. GANSER
EXP. 06/30/25
ELECTRICAL
No 21011
06/05/2024

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

ELECTRICAL LEGEND SPECIFICATIONS

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E0.02

LIGHTING CONTROL SEQUENCE OF OPERATION

A. GENERAL
   1. THE FOLLOWING IS THE RECOMMENDED SEQUENCE OF OPERATION BASED UPON IECC 2018. AS PART OF THE SUBMITTALS THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF OPERATION DESCRIBING HOW ALL FIXTURES OPERATE IN THE VARIOUS SPACES. SUBMITTALS SHALL ALSO INCLUDE WIRING DIAGRAMS AND SHOP DRAWINGS SPECIFIC TO EACH SPACE TYPE.

B. EXTERIOR EAST WALL
   1. CIRCUITS WILL BE CONTROLLED VIA ASTRONOMICAL TIMECLOCK AND PHOTOCELL.
   2. PHOTOCELL ON / TIMECLOCK OFF OPERATION.
   3. DMX RGBW CONTROL WITH 4 CHANNELS EACH 1' SEGMENT.
   4. SSL COLOR CONTROLLER LOCATED IN BASEMENT.

C. EXTERIOR SOUTH WALL
   1. CIRCUITS WILL BE CONTROLLED VIA ASTRONOMICAL TIMECLOCK AND PHOTOCELL.
   2. PHOTOCELL ON / TIMECLOCK OFF OPERATION.
   3. DMX RGBW CONTROL THE WHOLE ZONE.
   4. SSL COLOR CONTROLLER LOCATED IN BASEMENT.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE LIGHTING CONTROL SYSTEM THAT FUNCTIONS/OPERATES IN ACCORDANCE WITH THE ABOVE SEQUENCE OF OPERATION.

LIGHTING CONTROL SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW/APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT & BACKBOXES, LINE AND LOW-VOLTAGE CABLING, LIGHTING CONTROL COMPONENTS/RELAYS/CONTROLLERS/ETC, REQUIRED OF A COMPLETE AND OPERABLE SYSTEM.

COMcheck Software Version 4.1.5.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	
Project Type:	New Construction
Exterior Lighting Zone	4 (High activity metropolitan commercial district)

Construction Site:

Owner/Agent:

Designer/Contractor:
PK Electrical Inc.
681 Sierra Rose Dr
Suite B
Reno, NV 89511
775-826-9010

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Facade (Illuminated area of facade wall or surface)	9035 ft2	0.15	No	1355
			Total Tradable Watts (a) =	0
			Total Allowed Watts =	1355
			Total Allowed Supplemental Watts (b) =	900

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Facade (Illuminated area of facade wall or surface 9035 ft2): Non-tradable Wattage				
S1: LED FACADE SURFACE: Other:	1	15	40	600
S2: LED FLOODLIGHT: Other:	1	5	66	330
			Total Tradable Proposed Watts =	0

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

MILESTONE

6/4/24	BID SET

CITY OF RENO
DEPARTMENT OF PUBLIC WORKS
CAPITAL PROJECTS
ONE EAST FIRST STREET, 8TH FLOOR
PO BOX 1900
RENO, NV 89505
PHONE (775) 334-2548

PROFESSIONAL ENGINEER - STATE OF NEVADA
JOSEPH E. GANSER
Exp: 06/30/25
ELECTRICAL
No 21011
06/05/2024

LEAR THEATER HISTORIC LANDSCAPE RESTORATION
528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

IECC CALCULATION

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E0.03

SHEET 23 OF 27

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PO Box 5666 • 128 Market Street, Suite 3E • Stateline, NV 89449-5666 • 775-588-5929

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681 Sierra Rose Drive, Suite B | Reno, NV 89511 | 775.826.9010
4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290
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ColourLine™ LazerLine Wet - INSTALLATION and OPERATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE FIXTURE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

DETAILED ILLUSTRATION

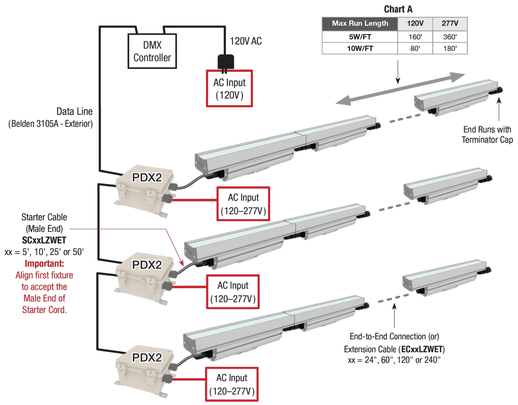
CLZWET

solid state luminaires
t 800.900.1730
3609 Swenson Ave.
St. Charles, IL 60174

CLZWET - Multiple Segment Configuration

Chart A

Max Run Length	120V	277V
5W/FT	160'	360'
10W/FT	80'	180'



CLZWETii

TG-DM-071823

3

ColourLine™ LazerLine Wet - INSTALLATION and OPERATION INSTRUCTIONS

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DETAILED ILLUSTRATION

CLZWET

solid state luminaires
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St. Charles, IL 60174

PDX2 - Power/Data Box

GENERAL:

1. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.
2. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.
3. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION:

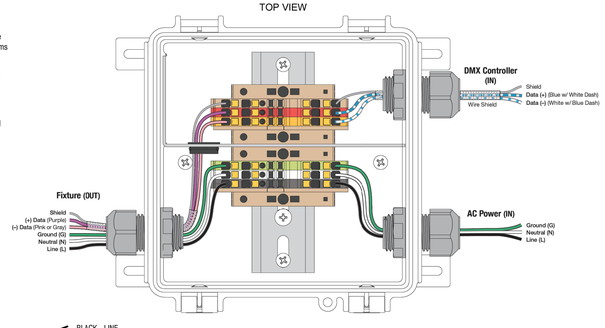
1) PDX2 (Power/Data Box)
   a) Mount PDX2 (PDX2 is exterior-rated).

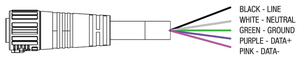
NOTE: Use appropriate fasteners for mounting to surface type.

   b) PDX2 Wiring Diagram

PDX2 Wiring

TOP VIEW





CLZWETii

TG-DM-071823

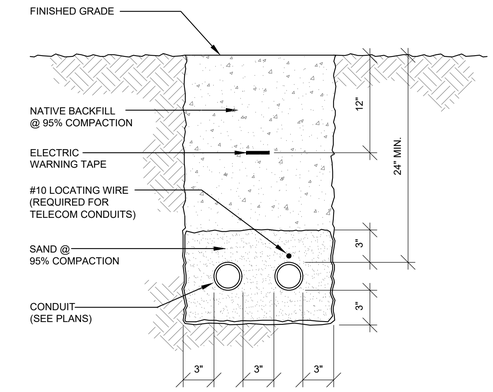
7

GENERAL NOTES

1. DETAILS INCLUDED FOR REFERENCE ONLY AND INDICATION OF POWER/DATA BOX FOR A COMPLETE SYSTEM, NOT ALL DEVICES REQUIRED MAY BE SHOWN. SEE ENLARGED PLANS AND FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

4 E0.03 PDX2 - POWER/DATA BOX DETAIL

SCALE: NONE

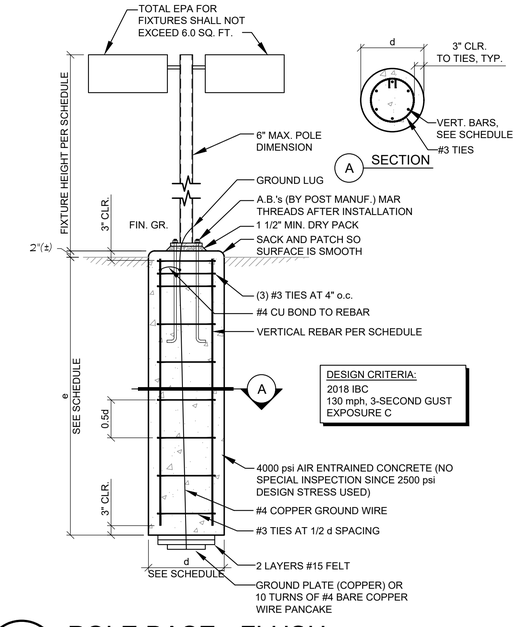


1 E0.03 TYPICAL 2 CONDUIT TRENCH DETAIL

SCALE: NONE

DETAIL INDICATES ELECTRICAL REQUIREMENTS ONLY. REFER TO CIVIL PLANS FOR ADDITIONAL TRENCHING INFORMATION AND SPECIFIC REQUIREMENTS.

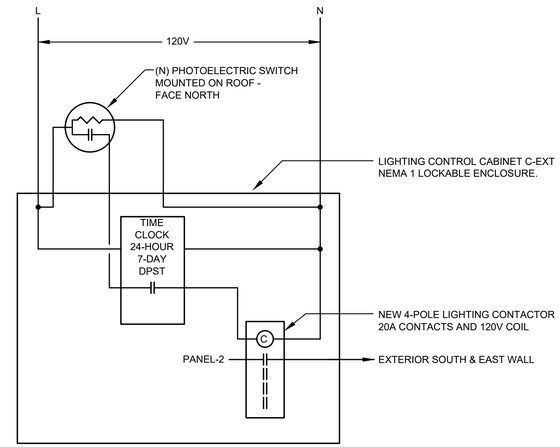
Flush Base						
Max. Fixture Height	Option 1			Option 2		
	d	e	Vertical Bars	d	e	Vertical Bars
	in.	in.		in.	in.	
12'-0"	18	54	(4) #5	24	50	(4) #6
16'-0"	18	63	(4) #5	24	56	(4) #6
20'-0"	18	71	(4) #5	24	63	(4) #6
25'-0"	24	72	(4) #6	30	66	(6) #6
30'-0"	24	81	(4) #6	30	74	(6) #6
35'-0"	24	90	(4) #6	30	83	(6) #6



DESIGN CRITERIA:
2018 IBC
130 mph, 3-SECOND GUST
EXPOSURE C

3 E0.03 POLE BASE - FLUSH

SCALE: NONE



2 E0.03 LIGHTING CONTACTOR C-EXT

SCALE: NONE

MILESTONE

6/4/24	BID SET

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528 W 1ST ST, RENO, NV, 89503
CITY OF RENO PROJECT NUMBER: ARPA-PW-9

DETAILS

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E0.04

SHEET 24 OF 27

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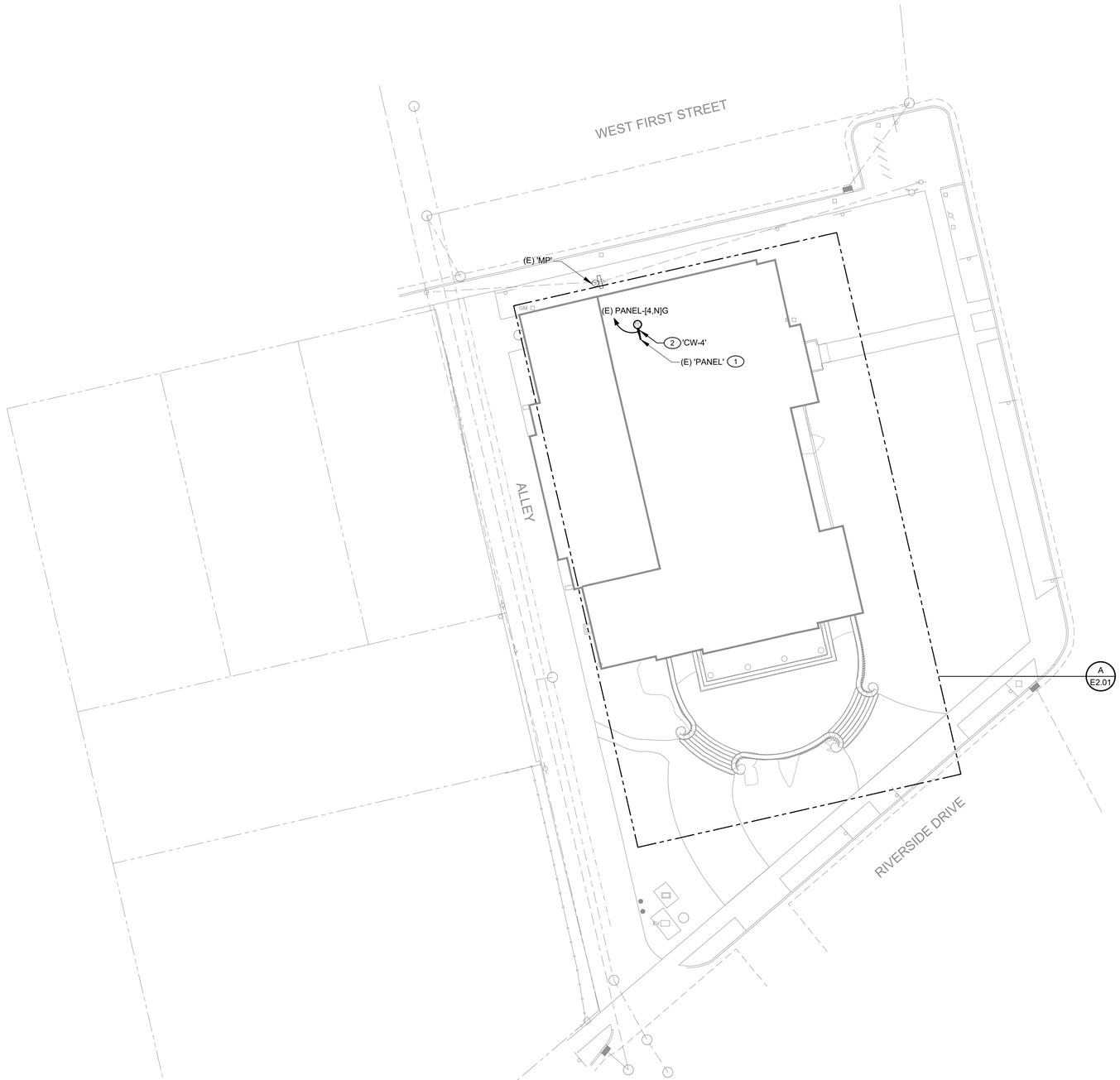

GENERAL NOTES

1. (E) AND/OR HALF TONE LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR SOLD LINES INDICATE NEW EQUIPMENT, UNLESS NOTED OTHERWISE.

SHEET NOTES

1. EXISTING PANEL TO BE OPERATION AND PRIOR INSTALLATION BY CITY OF RENO.
2. PROVIDE SMART TOUCH SENSITIVE INTELLIGENT CONTROL KEYPAD STICK-CW4 WALL MOUNT CONTROLLER. COORDINATE LOCATION.

A E1.01 OVERALL ELECTRICAL PLAN

SCALE: 1" = 20'-0"

MILESTONE

6/4/24	BID SET

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OVERALL ELECTRICAL PLAN

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E1.01

SHEET 25 OF 27

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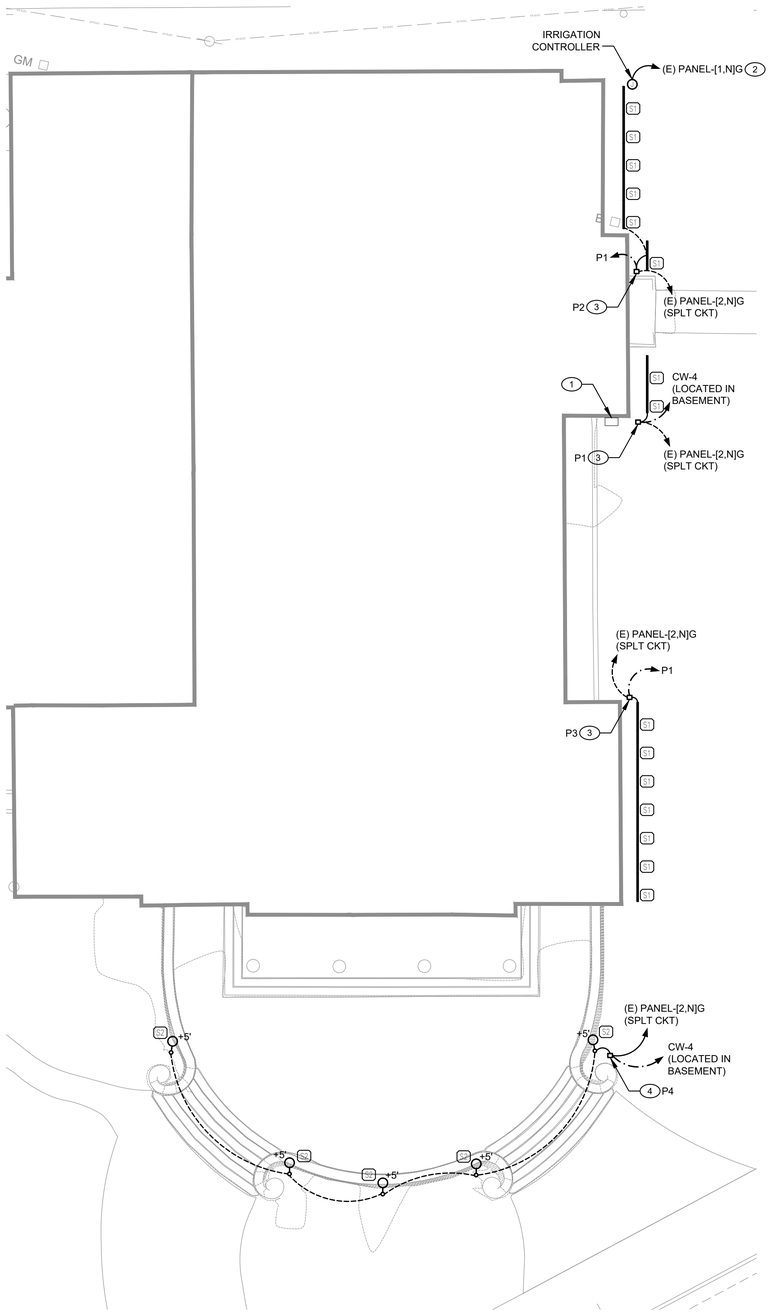

GENERAL NOTES

1. (E) AND/OR LIGHT LINES INDICATE EXISTING EQUIPMENT, (N) AND/OR BOLD LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO CALL 811 FOR LOCATION PRIOR TO DIGGING. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL NON-UTILITY UNDERGROUND ITEMS.
3. COORDINATE LOCATION OF ALL BELOW-GRADE CONDUITS, DUCT BANKS, PULL BOXES, ETC. WITH CIVIL ENGINEER AND OTHER TRADES PRIOR TO ROUGH-IN.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING POLE LOCATIONS WITH UTILITY OVERHEAD LINES AND POLES.
5. CONDUIT ROUTING IS SHOWN FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR FINAL ROUTING OF ALL CONDUITS.
6. PROVIDE 1" CONDUIT MINIMUM, UNLESS NOTED OTHERWISE, FOR ALL SITE CIRCUITS. ALL WIRING SHALL BE #10'S, UNO.

SHEET NOTES

1. EXISTING PULLBOX WITH SPARE CONDUITS FROM (E) 'PANEL'. COORDINATE WITH CITY OF RENO.
2. UTILIZE THE EXITING PULLBOX AND CONDUIT TO POWER IRRIGATION CONTROLLER. EXTEND CONDUIT AS REQUIRED TO LOCATION.
3. PDX2 EXTERIOR RATED BOX. DASIY CHAIN PDX2 BOXES IN SERIES. PROVIDE ALL NECESSARY CONDUIT, WIRE AND DMX CABLING BACK TO LIGHTING CONTROL DEVICE LOCATED IN BASEMENT. PROVIDE ALL INTERCONNECTIONS, MOUNTING, CABLING, BOXES AND SIZING AS NECESSARY FOR A COMPLETE WORKING SYSTEM. COORDINATE PLACEMENT WITH LANDSCAPE. TYPICAL ALL.
4. PDX EXTERIOR RATED BOX. PROVIDE ALL NECESSARY CONDUIT, WIRE AND DMX CABLING BACK TO LIGHTING CONTROL DEVICE LOCATED IN BASEMENT. PROVIDE ALL INTERCONNECTIONS, MOUNTING, CABLING, BOXES AND SIZING AS NECESSARY FOR A COMPLETE WORKING SYSTEM. COORDINATE PLACEMENT WITH LANDSCAPE. TYPICAL ALL.

A E2.01 ENLARGED ELECTRICAL PLAN

SCALE: 3/32" = 1'-0"

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MILESTONE

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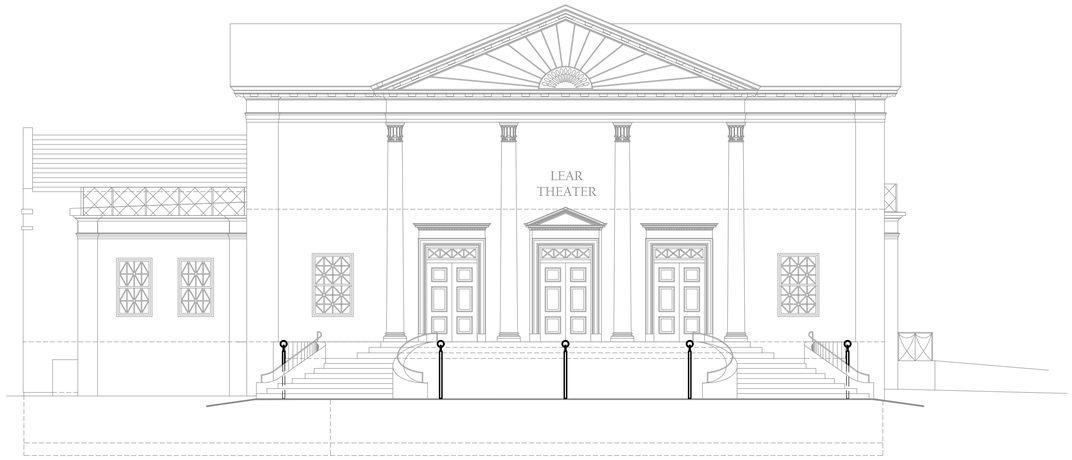
ENLARGED ELECTRICAL PLAN

PROJ. NO.:	7924
DESIGN BY:	NBA
DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E2.01

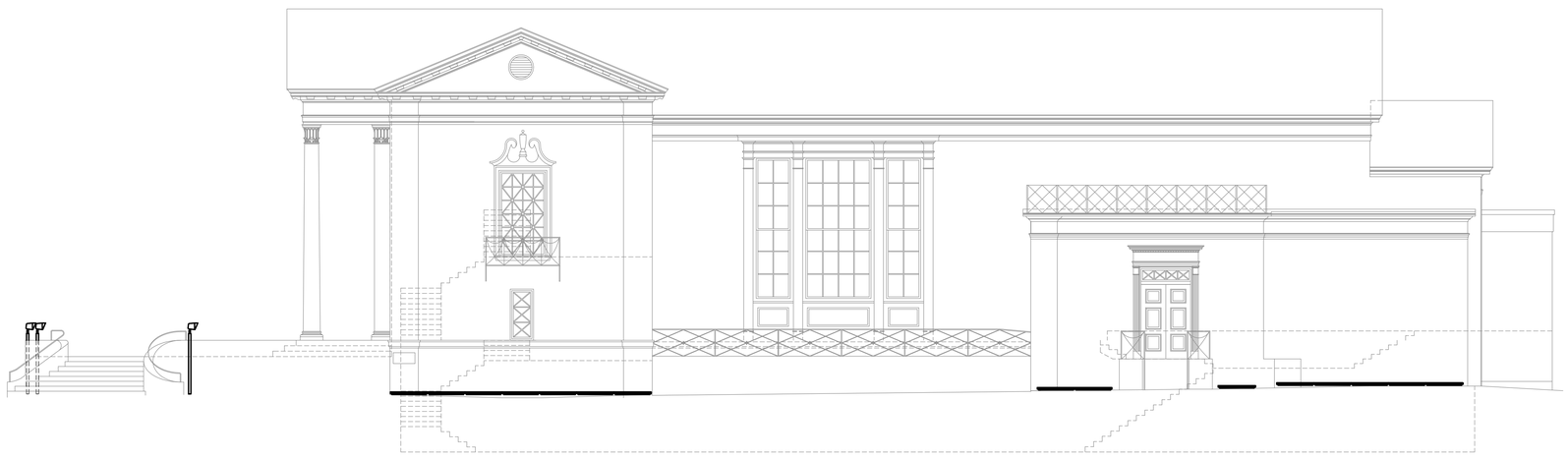
SHEET 26 OF 27



B
E3.01

SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



A
E3.01

EAST ELEVATION

SCALE: 1/8" = 1'-0"

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ELEVATIONS

PROJ. NO.:	7924
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DRAWN BY:	PKT
CHECK BY:	JEG
SCALE:	AS NOTED

DRAWING
E3.01

SHEET 27 OF 27