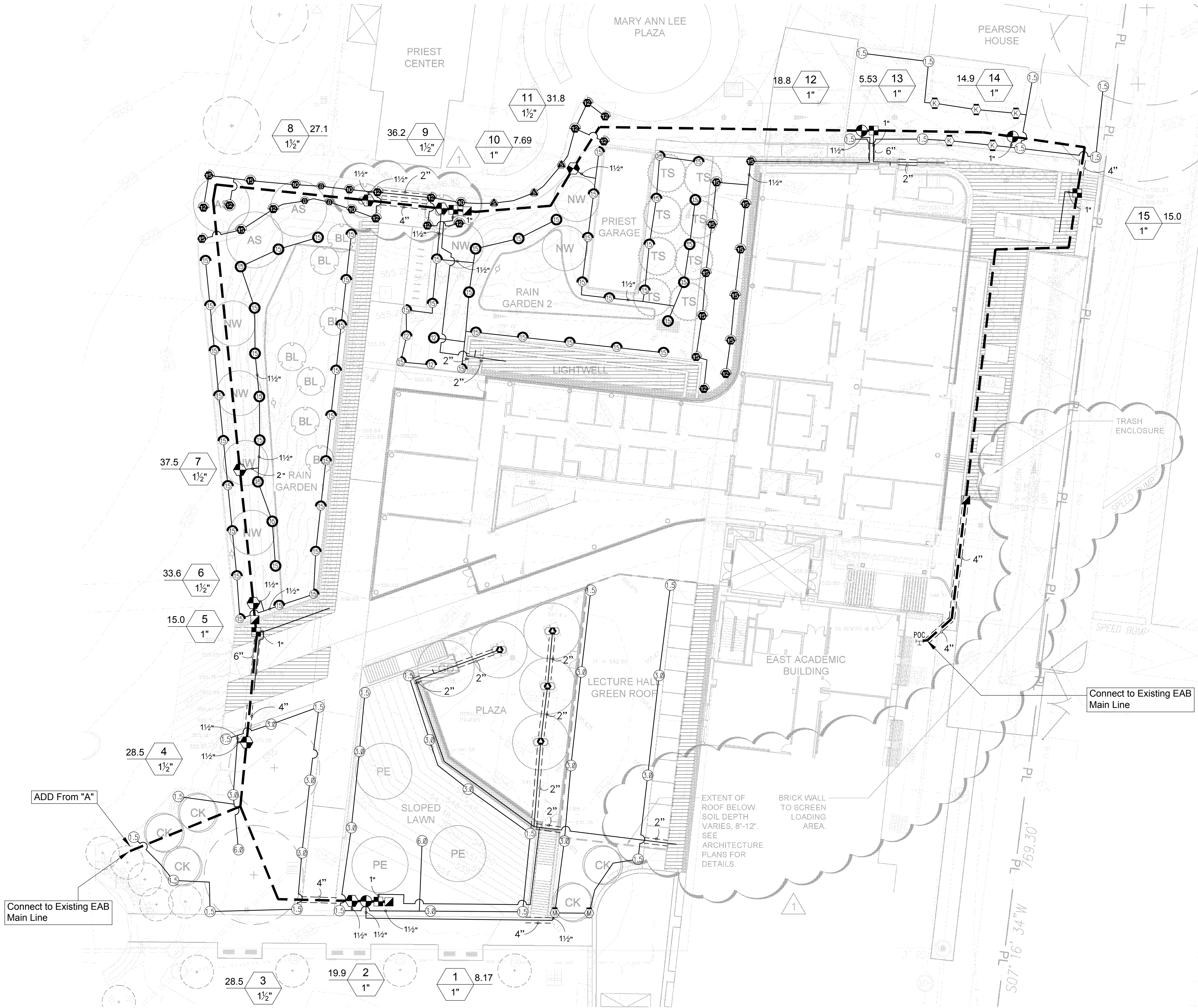


SCALE: 1" = 20' - 0"



IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PROS-04 5' strip spray	3
	Hunter PROS-04 8' radius	3
	Hunter PROS-04 10' radius	4
	Hunter PROS-04 12' radius	14
	Hunter PROS-04 15' radius	14
	Hunter PROS-12 12' radius	3
	Hunter PROS-12 15' radius	57
	Hunter MP1000 PROS-04-PRS40-CV	2
	Hunter MP2000 PROS-04-PRS40-CV	5

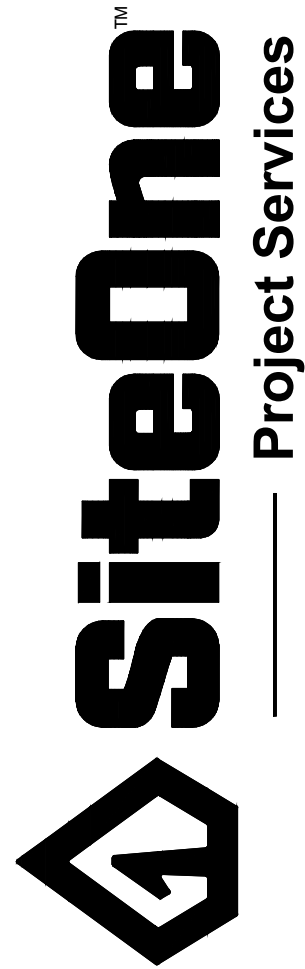
SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGP-ADJ-B	23
	Hunter PGP-ADJ-B	14
	Hunter PGP-ADJ-B	2

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PCZ-101-40 1"	5
	Hunter PLD 06-12 Drip Ring	4
	Area to Receive Dripline	
	Hunter PLD-06-12 (12)	4,877 s.f.

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGV-101G 1"	3
	Hunter PGV-151 Globe 1-1/2"	7
	Hunter HQ-44LRC 1"	4
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	2,727 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"	341.3 l.f.
	Irrigation Lateral Line: PVC Class 200 SDR 21 2"	6.7 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 2"	875.1 l.f.
	Pipe Sleeve: PVC Schedule 40 2"	118.2 l.f.
	Pipe Sleeve: PVC Schedule 40 4"	106.5 l.f.
	Pipe Sleeve: PVC Schedule 40 6"	18.5 l.f.
	Valve Callout	
	Valve Number	
	Valve Flow	
	Valve Size	

IRRIGATION NOTES

- IRRIGATION SYSTEM DESIGN BASED ON 40 GPM AT 70 PSI.
- IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC)ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM)AND POUNDS PER SQUARE INCH(PSI)FURNISHED BY OTHERS.
- IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5-FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL AND PLUMBING CODES.
- IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION PER LOCAL CODE.
- LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWINGS IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES, EXCEPT AS OTHERWISE INDICATED.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH A MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- PIPE LOCATIONS ARE DIAGRAMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
- THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTORS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET(AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO CONFIRM LOCATION AND CAPACITY OF CONTROLLER.



5102 N Garfield Ave
Loveland, CO 80538
Phone 970.667.6605
Fax 970.667.3525
<http://projectservices.siteone.com>
800.347.4272

Project Name:

**WEBSTER UNIVERSITY
INTERDISCIPLINARY SCIENCE
BUILDING**

SAINT LOUIS, MO, 63102

Customer Name:

Design Date: 10/29/16

Drawn By: Ryan Blumenshine

REVISIONS

Description	Date
	12/01/16
	1/16/17

Drawing Title:

Irrigation Plan

Drawing Scale: 1" = 20'

PS Project Number: 113720

Sheet Number:

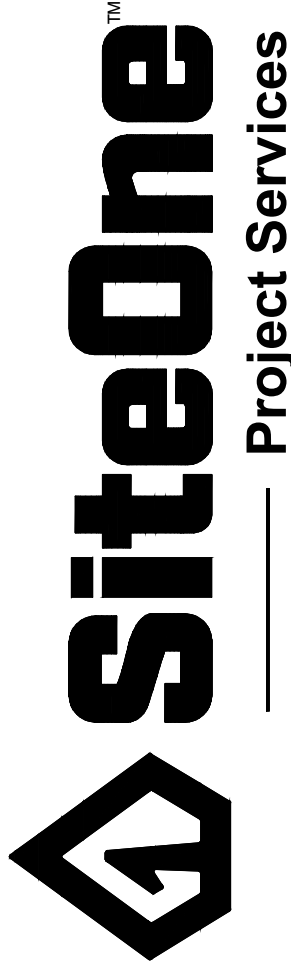
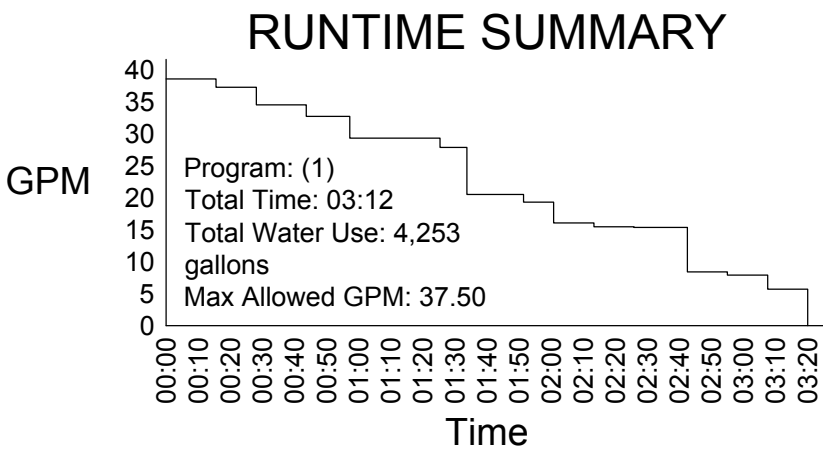
IR-1

CRITICAL ANALYSIS

Generated:	2016-12-01 11:53
P.O.C. NUMBER: 01	
Water Source Information:	
FLOW AVAILABLE	
Custom Max Flow:	40.00 gpm
Flow Available:	40.00 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	70.00 psi
Pressure Available:	70.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	37.50 gpm
Flow Available at POC:	40.00 gpm
Residual Flow Available:	2.50 gpm
Critical Station:	4
Design Pressure:	45.00 psi
Elevation Loss:	0.00 psi
Friction Loss:	1.98 psi
Fittings Loss:	0.20 psi
Loss through Valve:	3.00 psi
Pressure Req. at Critical Station:	50.17 psi
Loss for Fittings:	0.38 psi
Loss for Main Line:	3.75 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	0.00 psi
Critical Station Pressure at POC:	54.30 psi
Pressure Available:	70.00 psi
Residual Pressure Available:	15.70 psi

WATERING SCHEDULE

NUMBER	MODEL	TYPE	PRECIP	IN./WEEK	MIN./WEEK	GAL./WEEK	GAL./DAY
1	HUNTER PCZ-101-40	DRIP EMITTER	1.01 in/h	1	60	490.0	98.0
2	HUNTER PGV-101G	TURF ROTARY	0.69 in/h	1	87	1,733	346.6
3	HUNTER PGV-151 GLOBE	TURF ROTOR	0.87 in/h	1	69	1,967	393.3
4	HUNTER PGV-151 GLOBE	TURF ROTOR	0.90 in/h	1	67	1,910	381.9
5	HUNTER PCZ-101-40	AREA FOR DRIPLINE	1.01 in/h	1	60	901.7	180.3
6	HUNTER PGV-151 GLOBE	SHRUB SPRAY	0.78 in/h	1	78	2,618	523.5
7	HUNTER PGV-151 GLOBE	SHRUB SPRAY	0.78 in/h	1	78	2,925	585
8	HUNTER PGV-151 GLOBE	TURF SPRAY	1.48 in/h	1	41	1,110	222.1
9	HUNTER PGV-151 GLOBE	SHRUB SPRAY	0.98 in/h	1	62	2,246	449.3
10	HUNTER PCZ-101-40	AREA FOR DRIPLINE	1.01 in/h	1	60	461.1	92.2
11	HUNTER PGV-151 GLOBE	SHRUB SPRAY	0.94 in/h	1	64	2,036	407.3
12	HUNTER PGV-101G	TURF SPRAY	1.35 in/h	1	45	845.5	169.1
13	HUNTER PCZ-101-40	AREA FOR DRIPLINE	1.01 in/h	1	60	332.0	66.4
14	HUNTER PGV-101G	TURF ROTOR	0.74 in/h	1	82	1,224	244.8
15	HUNTER PCZ-101-40	AREA FOR DRIPLINE	1.01 in/h	1	60	935.6	187.1
TOTALS:					973	21,735	4,347



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**WEBSTER UNIVERSITY
INTERDISCIPLINARY SCIENCE
BUILDING**

SAINT LOUIS, MO, 63102

Customer Name:

Design Date: 10/29/16

Drawn By: Ryan Blumenshine

REVISIONS

Description	Date
△	12/01/16
△	1/16/17
△	
△	
△	
△	

Drawing Title:

Irrigation Plan

Drawing Scale: 1" = 20'

PS Project Number: 113720

Sheet Number:

IR-2

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICAL	☐

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE

- ☐ **A. No Exceptions Taken**
No further review of submittal is required.
- ☐ **B. Make Corrections Noted**
Incorporate corrections in work;
resubmission is not required.
- ☐ **C. Revise and Resubmit**
Revise as noted, and resubmit for review.
- ☐ **D. Rejected**
Submittal is not in compliance with Contract Documents;
provide new submittal.
- ☐ **E. For Record / Information Only**
Submittal was reviewed for Record / Information
purposes only.
- ☐ **F. Not Required for Review**
Submittal is not required by Contract Documents
and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings ☐ Certification / Qualifications ☐ Coordination Drawing
☐ Samples ☐ Record Documents ☐ Calculations
 (_____ copies) ☐ Product Data ☐ Schedules
☐ LEED Submittal ☐ O&M Manuals
☐ Other _____

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

Ry:

By:
Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0527

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 03/06/2017

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

RE: Irrigation Shop Drawings REV1

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
☒ Shop Drawings		☒ Approval	☐ Approved as Submitted
☐ Letter		☐ Your Use	☐ Approved as Noted
☐ Prints		☐ As Requested	☐ Returned After Loan
☐ Change Order		☐ Review and Comment	☐ Resubmit
☐ Plans			☐ Submit
☐ Samples		SENT VIA:	☐ Returned
☐ Specifications			☐ Returned for Corrections
☐ Other:			☐ Due Date:

<i>Item</i>	<i>Package</i>	<i>Code</i>	<i>Rev.</i>	<i>Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal		328400-002	2		03/06/2017	Irrigation Shop Drawings REV1	Submitted

NOTES:

CC:

Signed: _____
Devin Gates