

# SOUTH FOUNTAINS RESTORATION MISSOURI STATE CAPITOL JEFFERSON CITY, MISSOURI

## CONSTRUCTION DOCUMENTS

5/6/2024

ENGINEER/PRIME:



ARCHITECT:



LANDSCAPE ARCHITECT:



MECHANICAL-ELECTRICAL-PLUMBING:



OWNER:

STATE OF MISSOURI  
MICHAEL L. PARSON, GOVERNOR  
OFFICE OF ADMINISTRATION  
KENNETH J. ZELLERS, COMMISSIONER

DESIGNERS: WATERS EDGE AQUATIC DESIGN  
STRATA ARCHITECTURE INC.  
VIREO

PROJECT  
MANAGEMENT:

OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

PROJECT NUMBER: O2204-01  
ASSET NUMBER: 3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

SHEET NUMBER:

G001

1 OF 25 SHEETS  
MAY 6, 2024



CODE REVIEW:

THE MISSOURI STATE CAPITOL IS A HISTORIC GOVERNMENT STRUCTURE LOCATED IN JEFFERSON CITY, MISSOURI. THE BUILDING WAS CONSTRUCTED BETWEEN 1913 AND 1917.

APPLICABLE CODES  
2018 INTERNATIONAL BUILDING CODE  
2018 INTERNATIONAL EXISTING BUILDING CODE  
2018 INTERNATIONAL FIRE CODE  
2018 INTERNATIONAL MECHANICAL CODE  
2018 INTERNATIONAL CODE COUNCIL PLUMBING CODE (UNIFORM PLUMBING CODE)  
2017 INTERNATIONAL CODE COUNCIL ELECTRICAL CODE (NATIONAL ELECTRICAL CODE)  
2018 INTERNATIONAL ENERGY CONSERVATION CODE  
2010 ADA/ADAAG

PROJECT OVERVIEW:

BACKGROUND  
THE FOUNTAIN OF THE ARTS AND THE FOUNTAIN OF SCIENCES ("FOUNTAINS") ARE A PAIR OF LIMESTONE, GRANITE, AND CONCRETE FOUNTAINS, LOCATED ONE ON EITHER SIDE OF THE SOUTH LAWN OF THE MISSOURI STATE CAPITOL. THE FOUNTAINS WERE DESIGNED BY ROBERT ATKENS, AND WERE ADDED TO THE CAPITOL GROUNDS IN OR AROUND 1928 BY THE CAPITOL DECORATING COMMISSION. EACH FOUNTAIN CONSISTS OF TWO BASINS. THE UPPER BASINS ARE SUPPORT BY DRUMS DISPLAYING CARVINGS OF ALLEGORICAL FIGURES. THE FOUNTAIN OF THE SCIENCES, ON THE EAST SIDE, HAS FIGURES REPRESENTING GEOMETRY, GEOLOGY, CHEMISTRY, AND ASTRONOMY. THE FOUNTAIN OF THE ARTS, ON THE WEST SIDE, REPRESENTS ARCHITECTURE, SCULPTURE, PAINTING, AND MUSIC.

SCOPE OF WORK  
THE SCOPE OF WORK IS THE REPAIR AND COMPLETE RESTORATION OF THE FOUNTAINS OF ARTS AND FOUNTAIN OF THE SCIENCES.  
• THE FOUNTAINS ARE TO BE CLEANED, THE MASONRY (LIMESTONE AND GRANITE) IS TO BE RESTORED/REPLACED AND REPOINTED, AND ALL OF THE SEALANT JOINTS ARE TO BE REPLACED.  
• THE FOUNTAIN CONCRETE BASINS ARE TO BE STRIPPED, CONCRETE REPAIRED, AND NEW WATERPROOFING INSTALLED.  
• THE FOUNTAINS' EQUIPMENT IS TO BE COMPLETELY RESTORED/REPLACED  
• REPAIR OF EXISTING PIPING OR INSTALLATION OF NEW PIPING  
• REPAIR OF THE EXISTING PUMP OR INSTALLATION OF NEW PUMP  
• INSTALLATION OF NEW FILTRATION SYSTEM  
• INSTALLATION OF NEW CHEMICAL SYSTEM  
• INSTALLATION OF NEW VALVES AND GASKETS  
• INSTALLATION OF NEW UNDERWATER LED LIGHTING  
• REQUIRED ELECTRICAL UPGRADES  
• THE LANDSCAPING IMMEDIATELY SURROUNDING THE FOUNTAIN IS TO BE FULLY REMOVED AND REPLACED, INCLUDING INSTALLATION OF NEW IRRIGATION.

BASE BID:

- RESTORATION OF THE FOUNTAIN BASINS AND SCULPTURES
- REPLACEMENT OF FOUNTAIN PUMP, FILTERING, AND TREATMENT SYSTEMS IN THE MECHANICAL ROOM
- REPLACEMENT OF FITTINGS IN THE FOUNTAIN BASIN
- REMOVAL AND REPLACEMENT OF LANDSCAPING AT SOUTH FOUNTAIN BASINS, ALONG WITH NEW IRRIGATION

ALTERNATE NO. 1:

- Replace below-grade fountain piping located in the south lawn of the Capitol Building grounds. See Drawing Sheets M101 – Fountain Site Piping Plan and Drawing Sheet M102 – Fountain Site Drainage Plan.

HISTORIC TREATMENT:

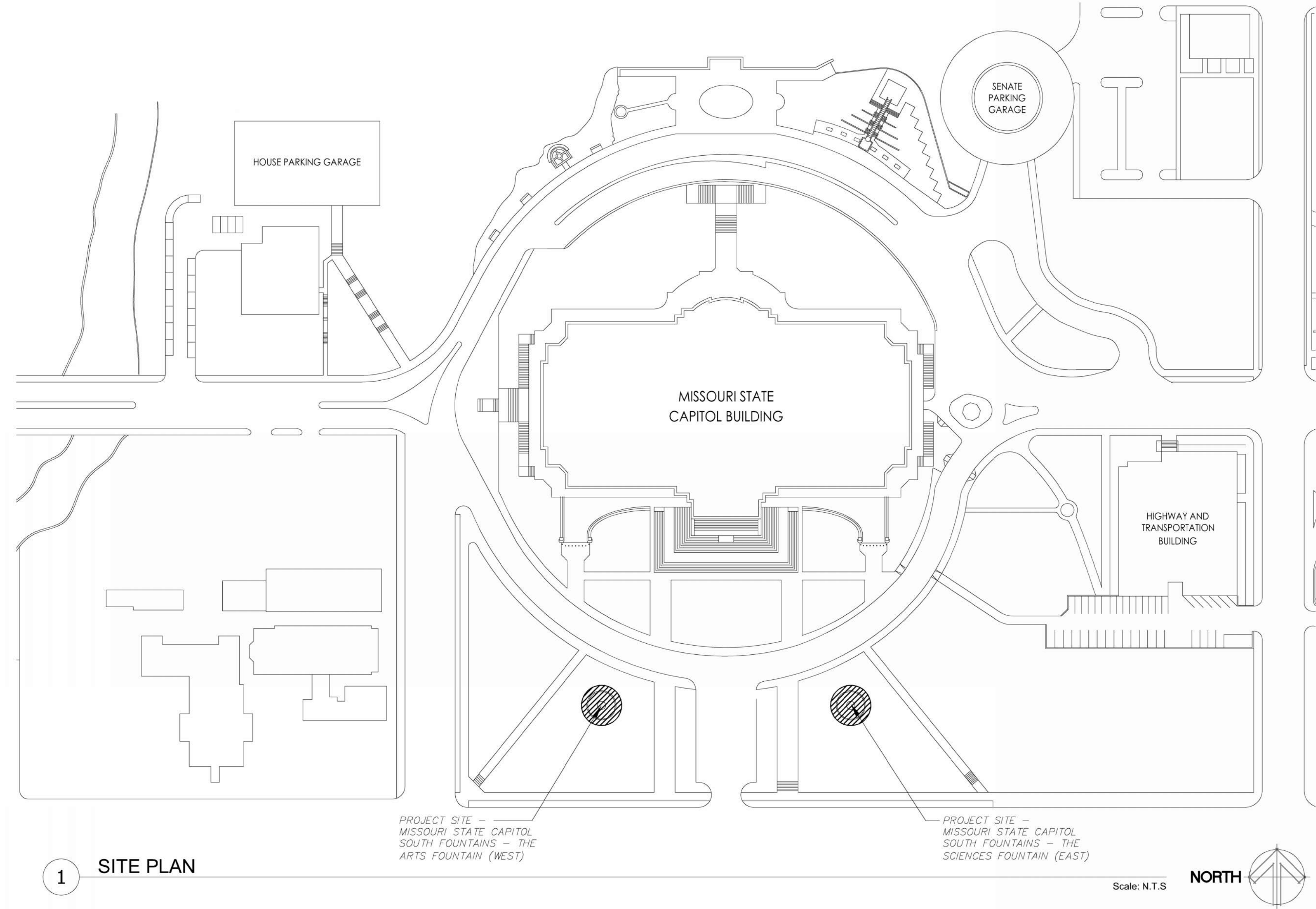
- A. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION OF THE HISTORIC AND EXISTING BUILDING FABRIC FROM DAMAGE, WEAR, OR WEATHER THROUGHOUT THE PROJECT CONSTRUCTION.
- B. ALL SURFACES AND MATERIALS ARE TO BE TREATED AS ORIGINAL HISTORIC FABRIC. THESE MATERIALS ARE TO BE PROTECTED THROUGHOUT CONSTRUCTION AND ARE NOT TO BE DISTURBED OR REMOVED UNLESS AUTHORIZED BY THE OWNER OR THE ARCHITECT. OR AS RELATED TO A SPECIFIC SCHEDULED AREA OF REHABILITATION. IF HISTORIC FABRIC IS REMOVED OR DAMAGED, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REPLACE SAID DAMAGE TO LIKE OR BETTER CONDITION AT NO COST TO THE OWNER.
- C. ALL WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH SPECIFICATION SECTION 013591 HISTORIC TREATMENT PROCEDURES AND THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES STANDARDS FOR PRESERVATION:
1. A PROPERTY WILL BE USED AS IT WAS HISTORICALLY, OR BE GIVEN A NEW USE THAT MAXIMIZES THE RETENTION OF DISTINCTIVE MATERIALS, FEATURES, SPACES, AND SPATIAL RELATIONSHIPS. WHERE A TREATMENT AND USE HAVE NOT BEEN IDENTIFIED, A PROPERTY WILL BE PROTECTED AND, IF NECESSARY, STABILIZED UNTIL ADDITIONAL WORK MAY BE UNDERTAKEN.
  2. THE HISTORIC CHARACTER OF A PROPERTY WILL BE RETAINED AND PRESERVED. THE REPLACEMENT OF INTACT OR REPAIRABLE HISTORIC MATERIALS OR ALTERATION OF FEATURES, SPACES, AND SPATIAL RELATIONSHIPS THAT CHARACTERIZE A PROPERTY WILL BE AVOIDED.
  3. EACH PROPERTY WILL BE RECOGNIZED AS A PHYSICAL RECORD OF ITS TIME, PLACE, AND USE. WORK NEEDED TO STABILIZE, CONSOLIDATE, AND CONSERVE EXISTING HISTORIC MATERIALS AND FEATURES WILL BE PHYSICALLY AND VISUALLY COMPATIBLE, IDENTIFIABLE UPON CLOSE INSPECTION, AND PROPERLY DOCUMENTED FOR FUTURE RESEARCH.
  4. CHANGES TO A PROPERTY THAT HAVE ACQUIRED HISTORIC SIGNIFICANCE IN THEIR OWN RIGHT WILL BE RETAINED AND PRESERVED.
  5. DISTINCTIVE MATERIALS, FEATURES, FINISHES, AND CONSTRUCTION TECHNIQUES OR EXAMPLES OF CRAFTSMANSHIP THAT CHARACTERIZE A PROPERTY WILL BE PRESERVED.
  6. THE EXISTING CONDITION OF HISTORIC FEATURES WILL BE EVALUATED TO DETERMINE THE APPROPRIATE LEVEL OF INTERVENTION NEEDED. WHERE THE SEVERITY OF DETERIORATION REQUIRES REPAIR OR LIMITED REPLACEMENT OF A DISTINCTIVE FEATURE, THE NEW MATERIAL WILL MATCH THE OLD IN COMPOSITION, DESIGN, COLOR, AND TEXTURE.
  7. CHEMICAL OR PHYSICAL TREATMENTS, IF APPROPRIATE, WILL BE UNDERTAKEN USING THE GENTLEST MEANS POSSIBLE. TREATMENTS THAT CAUSE DAMAGE TO HISTORIC MATERIALS WILL NOT BE USED.

REHABILITATION NOTES:

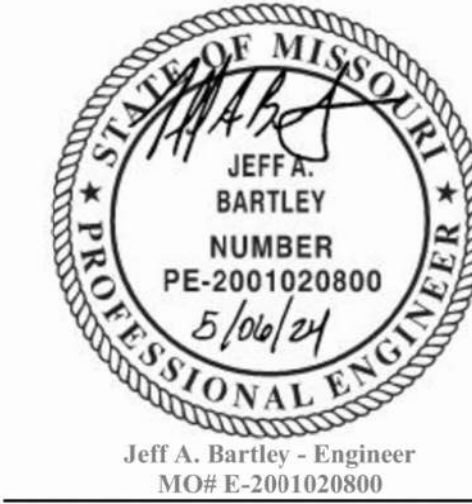
- A. SMOKING IS NOT PERMITTED IN ANY WITHIN THE PROJECT AREA OR BUILDING.
- B. DO NOT SCALE FROM THE DRAWINGS.
- C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE CONSTRUCTION AREA BEFORE AND AFTER EACH WORK DAY.
- D. ALL DIMENSIONS ARE APPROXIMATE. ACTUAL FIELD-VERIFIED DIMENSIONS SHALL BE OBTAINED BY THE GENERAL CONTRACTOR AND THE SUB-CONTRACTORS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION WORK. FIELD CONDITIONS THAT DIFFER FROM THOSE INDICATED ON THE CONSTRUCTION DOCUMENTS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THE TIME OF THEIR FINDING AND PRIOR TO THE COMMENCEMENT OF ANY RELATED WORK.
- E. THE BUILDING AND SITE ADJACENT TO THE PROJECT WILL BE OCCUPIED DURING CONSTRUCTION BY THE OWNER AND VISITORS TO THE HISTORIC SITE. THE GENERAL CONTRACTOR SHALL PROVIDE A WORK SCHEDULE AND PHASING SCHEDULE DETAILING ANY ENTRANCE CLOSURES AND/OR INTERRUPTIONS DURING CONSTRUCTION. THE OWNER'S CONSTRUCTION REPRESENTATIVE SHALL REVIEW AND HAVE FINAL APPROVAL OF THE WORK AND PHASING SCHEDULES.
- F. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW OF THE EXISTING BUILDING AND/OR SITE CONDITIONS AS THEY RELATE TO THE PROPOSED SCOPE OF WORK PRIOR TO THE COMMENCEMENT OF ANY WORK. DISCREPANCIES THAT ARE DISCOVERED BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AT THE TIME OF THEIR FINDING AND PRIOR TO THE COMMENCEMENT OF SAID WORK.
- G. THE GENERAL CONTRACTOR SHALL REQUEST REVIEW AND APPROVAL FROM THE ARCHITECT FOR FINAL SELECTION OF ALL SPECIFIED MATERIALS (IN WRITING) BEFORE COMMENCING WITH ORDERING OF MATERIALS AND/OR INITIATING THE RELATED CONSTRUCTION.
- H. REPAIR OR REPLACE ANY EXISTING MATERIALS SCHEDULED TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH THE ORIGINAL MATERIAL, IN KIND, PATCH AND REPAIR EXISTING CONSTRUCTION AS SPECIFIED, IN KIND, DUE TO DEMOLITION OR NEW CONSTRUCTION ACTIVITIES FOR A SEAMLESS APPEARANCE. REPAIRS OR REPLACEMENTS MUST MATCH THE EXISTING MATERIAL IN TEXTURE, PROFILE, DIMENSION, AND FINISH.
- I. ALL MATERIALS PERMANENTLY REMOVED DURING REHABILITATION WORK ARE TO BE REVIEWED WITH THE OWNER PRIOR TO BEING DISPOSED OF. NO ARCHITECTURAL MATERIALS SHALL BE REMOVED FROM THE SITE, UNLESS OTHERWISE NOTED, WITHOUT APPROVAL OF THE OWNER.
- J. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED AND INSURED TO PERFORM WORK, AS REQUIRED BY THE LOCAL AND STATE AUTHORITIES.
- K. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONSTRUCT IN CONFORMANCE WITH ALL CURRENT LOCAL, STATE, AND FEDERAL CODES, ORDINANCES, AND PROCEDURES.
- L. THE GENERAL CONTRACTOR AND SUBCONTRACTORS ARE SOLELY RESPONSIBLE FOR THE CONSTRUCTION PROCESS, MATERIAL VERIFICATION, AND WORKER SAFETY. CONTRACTORS ARE TO INSTALL ALL MATERIALS PER MANUFACTURERS' CURRENT REQUIREMENTS, UL RATING REQUIREMENTS, SPECIFIC TRADE GUIDELINES, INDUSTRY STANDARDS, AND PER CURRENT BUILDING CODES.
- M. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING AS REQUIRED FOR THE SCHEDULED WORK.
- N. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL MAKE NO STRUCTURAL CHANGES WITHOUT THE WRITTEN APPROVAL OF A STRUCTURAL ENGINEER.
- O. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK AND TO COORDINATE WITH ALL OTHER BUILDING TRADES THAT CORRELATE TO SUCH WORK IN ORDER TO ENSURE THAT THE WORK DESIGNATED IS COMPLETED ON SCHEDULE AND IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- P. DISTURBANCE OF ANY LEAD-BASED PAINT COATED SURFACE MUST BE PERFORMED BY WORKERS THAT ARE RENOVATION, REPAIR AND PAINTING PROGRAM (RRP) TRAINED AND WORK FOR AN EPA-CERTIFIED CONTRACTING COMPANY.

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STATE OF MISSOURI  
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ISSUE DATE: 5/6/2024

CAD DWG FILE: TB/JB  
DRAWN BY: TB/JB  
CHECKED BY: TB/JB  
DESIGNED BY: TB

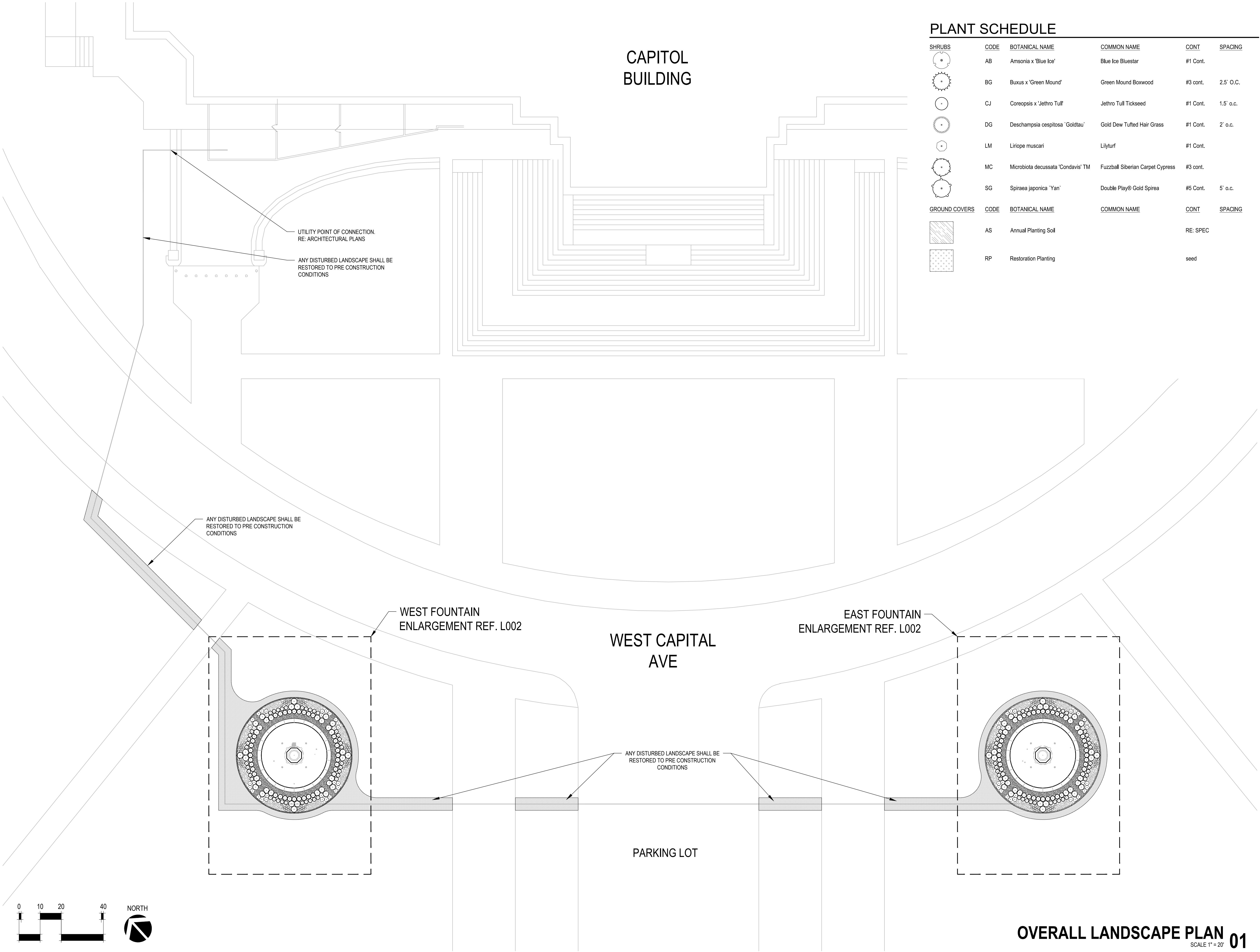
SHEET TITLE:  
SHEET INDEX  
SITE PLAN  
REHABILITATION  
NOTES

SHEET NUMBER:

G002  
2 OF 25 SHEETS

MAY 6, 2024

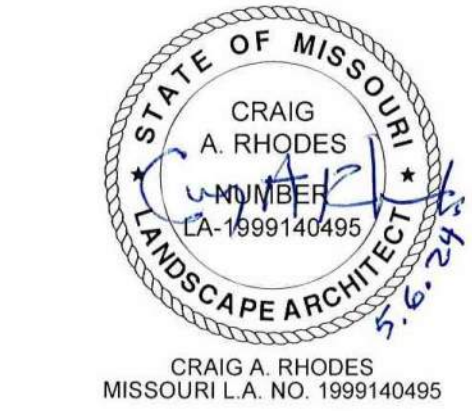




PLANT SCHEDULE

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING
	AB	Amsonia x 'Blue Ice'	Blue Ice Bluestar	#1 Cont.	
	BG	Buxus x 'Green Mound'	Green Mound Boxwood	#3 cont.	2.5' O.C.
	CJ	Coreopsis x 'Jethro Tull'	Jethro Tull Tickseed	#1 Cont.	1.5' o.c.
	DG	Deschampsia cespitosa 'Goldtau'	Gold Dew Tufted Hair Grass	#1 Cont.	2' o.c.
	LM	Liriope muscari	Lilyturf	#1 Cont.	
	MC	Microbiota decussata 'Condavis' TM	Fuzzball Siberian Carpet Cypress	#3 cont.	
	SG	Spiraea japonica 'Yan'	Double Play® Gold Spirea	#5 Cont.	5' o.c.
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING
	AS	Annual Planting Soil		RE: SPEC	
	RP	Restoration Planting		seed	

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CAD DWG FILE:  
DRAWN BY: MH/AS  
CHECKED BY: CR  
DESIGNED BY: MH/AS

SHEET TITLE:  
OVERALL  
LANDSCAPE PLAN

SHEET NUMBER:

L001

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MAY 6, 2024



PLANT SCHEDULE WEST FOUNTAIN

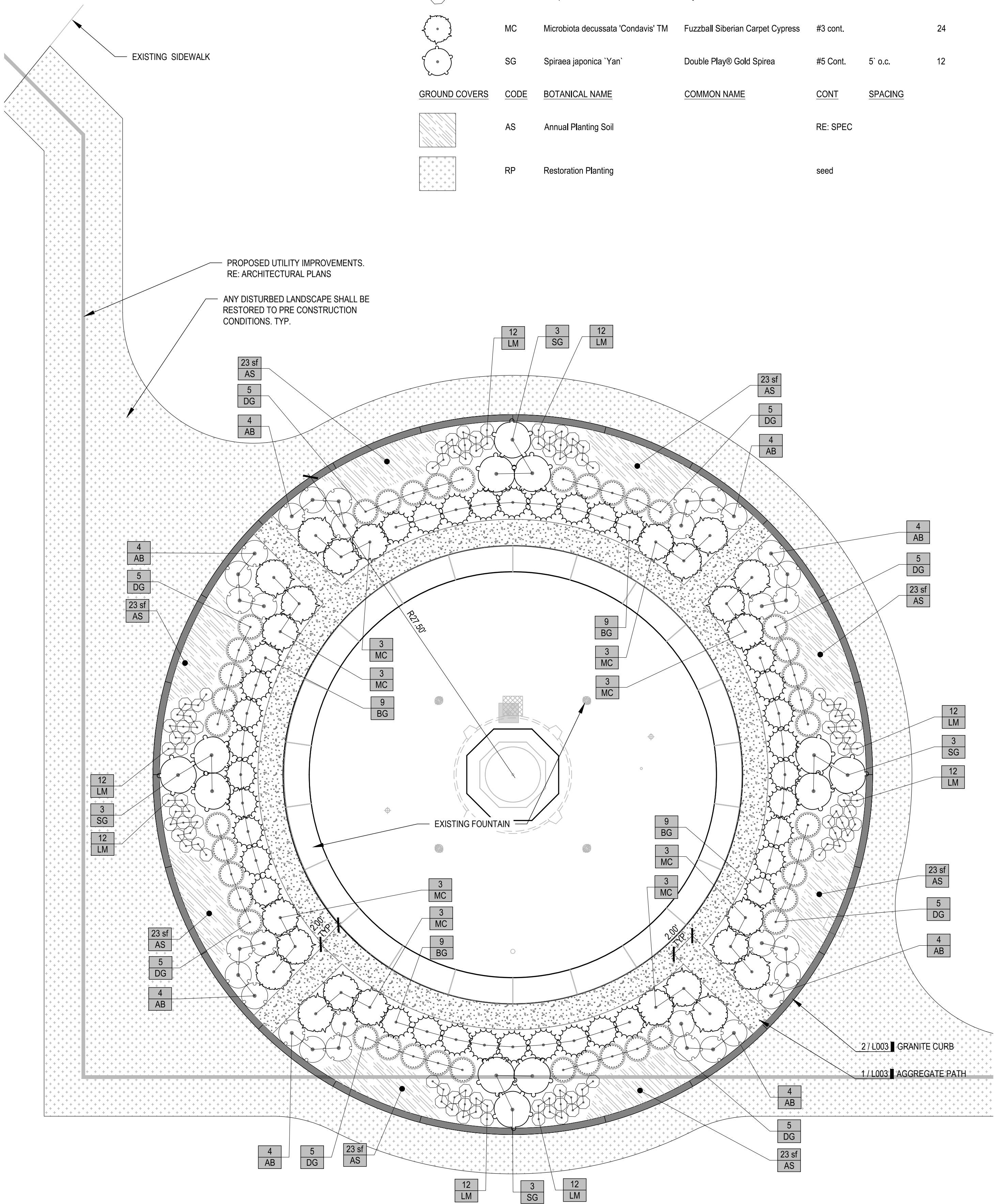
SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY
	AB	Amsonia x 'Blue Ice'	Blue Ice Bluestar	#1 Cont.		32
	BG	Buxus x 'Green Mound'	Green Mound Boxwood	#3 cont.	2.5' O.C.	36
	DG	Deschampsia cespitosa 'Goldtau'	Gold Dew Tufted Hair Grass	#1 Cont.	2' o.c.	40
	LM	Liriope muscari	Lilyturf	#1 Cont.		96
	MC	Microbiota decussata 'Condavis' TM	Fuzzball Siberian Carpet Cypress	#3 cont.		24
	SG	Spiraea japonica 'Yan'	Double Play® Gold Spirea	#5 Cont.	5' o.c.	12
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	
	AS	Annual Planting Soil		RE: SPEC		
	RP	Restoration Planting		seed		

LAYOUT & GRADING NOTES

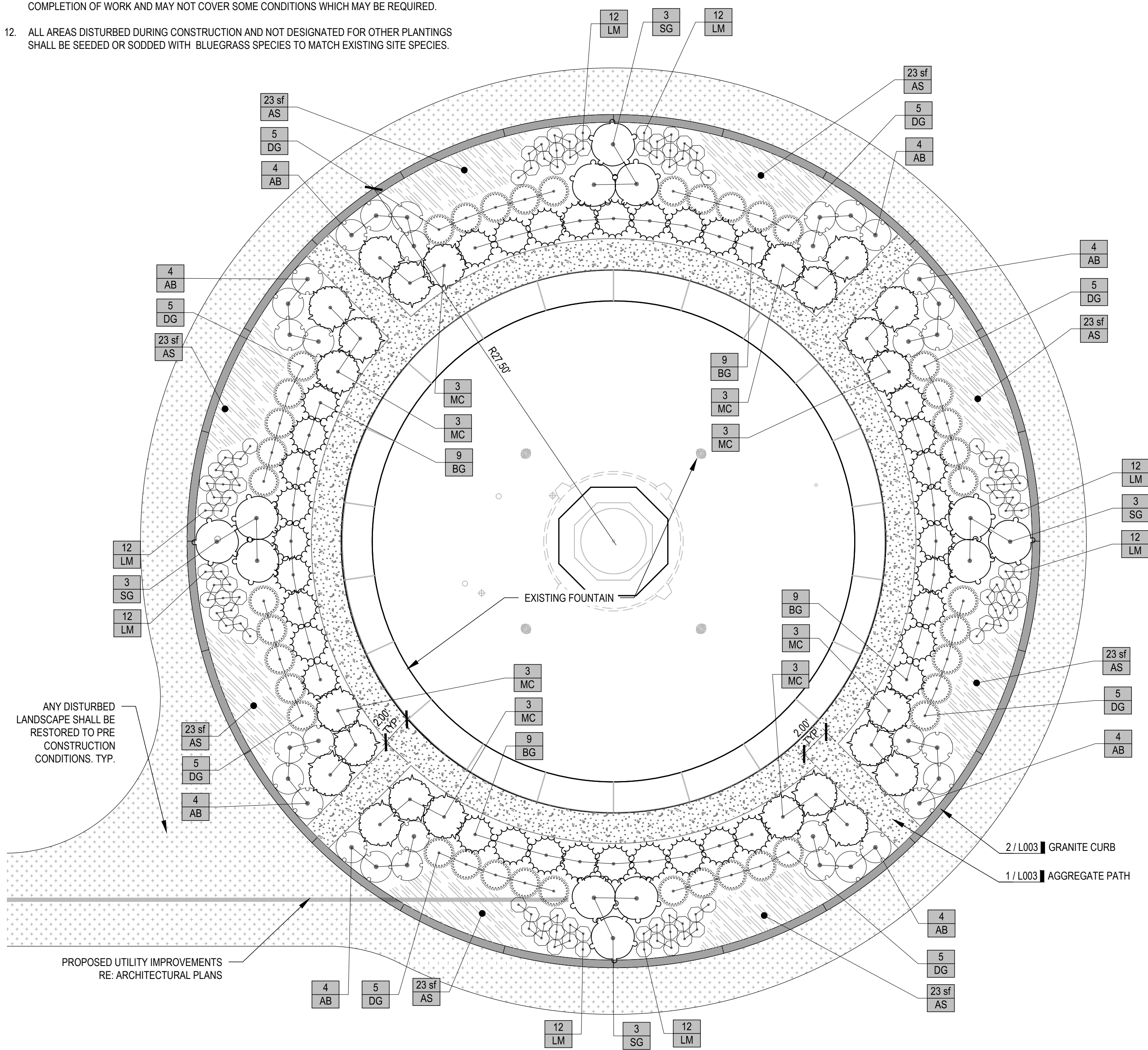
1. TOP OF GRANITE CURB SHALL BE ±18" BELOW TOP OF FOUNTAIN BASIN WALL. PLACEMENT SHALL BE FIELD VERIFIED BY LANDSCAPE ARCHITECT. PLANT BED SHALL HAVE POSITIVE DRAINAGE AWAY FROM FOUNTAIN. REPORT ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS TO OWNER'S REPRESENTATIVE IMMEDIATELY.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL ON-SITE AND DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL SYSTEMS AND PROCEDURES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATIONS.
3. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL HAVE ALL UTILITIES FLAGGED IN THE FIELD FOR INSPECTION PRIOR TO PROCEEDING WITH ANY GRADING OPERATIONS. THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF ALL EXISTING UTILITIES AND WILL BE HELD LIABLE FOR ANY DELAYS CAUSED BY DAMAGE TO UTILITIES OR FAILURE TO LOCATE UTILITIES.
4. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AT A LOCATION PROVIDED BY THE CONTRACTOR AND IN ACCORDANCE WITH LOCAL REGULATIONS. THE CONTRACTOR SHALL SATISFY HIMSELF BY JOB-SITE INSPECTION AS TO THE EXTENT OF CLEARING REQUIRED PRIOR TO ENTERING INTO A CONSTRUCTION CONTRACT.
5. ALL CONSTRUCTION LAYOUT STAKING IS TO BE PERFORMED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI. TO FACILITATE ACCURACY OF CONSTRUCTION STAKING, UPON WRITTEN REQUEST FROM CONTRACTOR, ELECTRONIC DATA COMPRISING THESE SITE DEVELOPMENT DRAWINGS WILL BE FORWARDED TO THE LAND SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED TO PERFORM THE CONSTRUCTION STAKING.
6. IN ORDER TO MAINTAIN THE INTEGRITY OF HORIZONTAL AND VERTICAL CONTROL FOR THE SITE, THE SURVEYOR OR PROFESSIONAL ENGINEER EMPLOYED BY THE CONTRACTOR TO PERFORM CONSTRUCTION LAYOUT STAKING SHALL SET AND PROTECT ADDITIONAL TRAVERSE POINTS OUTSIDE THE AREAS OF CONSTRUCTION ACTIVITY.
7. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE TO THE FOLLOWING: EDGE OF PAVEMENT AND EDGE OF CURB.
8. ALL EDGES OF PAVEMENTS ARE TO BE STRAIGHT (OR OF CONSISTENT RADIUS IN THE CASE OF CURVES) AS SHOWN HEREON. NO UNSPECIFIED TANGENTS OR KINKS WILL BE ALLOWED.
9. ALL AREAS SHALL BE BROUGHT TO FINAL PLAN CONDITION (PAVED, SEEDED, OR MULCHED) AS SOON AS POSSIBLE TO MAINTAIN FINISH GRADE CONDITIONS AND PREVENT SOIL LOSS.
10. ALL EXISTING UTILITIES AND UTILITY POLES TO REMAIN UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL.
11. DRAWINGS AND SPECIFICATIONS DO NOT INDICATE OR DESCRIBE TOTAL WORK REQUIRED FOR COMPLETION OF WORK AND MAY NOT COVER SOME CONDITIONS WHICH MAY BE REQUIRED.
12. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED FOR OTHER PLANTINGS SHALL BE SEEDED OR SODDED WITH BLUEGRASS SPECIES TO MATCH EXISTING SITE SPECIES.

PLANT SCHEDULE EAST FOUNTAIN AREA

SHRUBS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY
	AB	Amsonia x 'Blue Ice'	Blue Ice Bluestar	#1 Cont.		32
	BG	Buxus x 'Green Mound'	Green Mound Boxwood	#3 cont.	2.5' O.C.	36
	DG	Deschampsia cespitosa 'Goldtau'	Gold Dew Tufted Hair Grass	#1 Cont.	2' o.c.	40
	LM	Liriope muscari	Lilyturf	#1 Cont.		96
	MC	Microbiota decussata 'Condavis' TM	Fuzzball Siberian Carpet Cypress	#3 cont.		24
	SG	Spiraea japonica 'Yan'	Double Play® Gold Spirea	#5 Cont.	5' o.c.	12
GROUND COVERS	CODE	BOTANICAL NAME	COMMON NAME	CONT	SPACING	
	AS	Annual Planting Soil		RE: SPEC		
	RP	Restoration Planting		seed		



WEST FOUNTAIN LANDSCAPE ENLARGEMENT 01  
SCALE 1" = 5'



EAST FOUNTAIN LANDSCAPE ENLARGEMENT 02  
SCALE 1" = 5'

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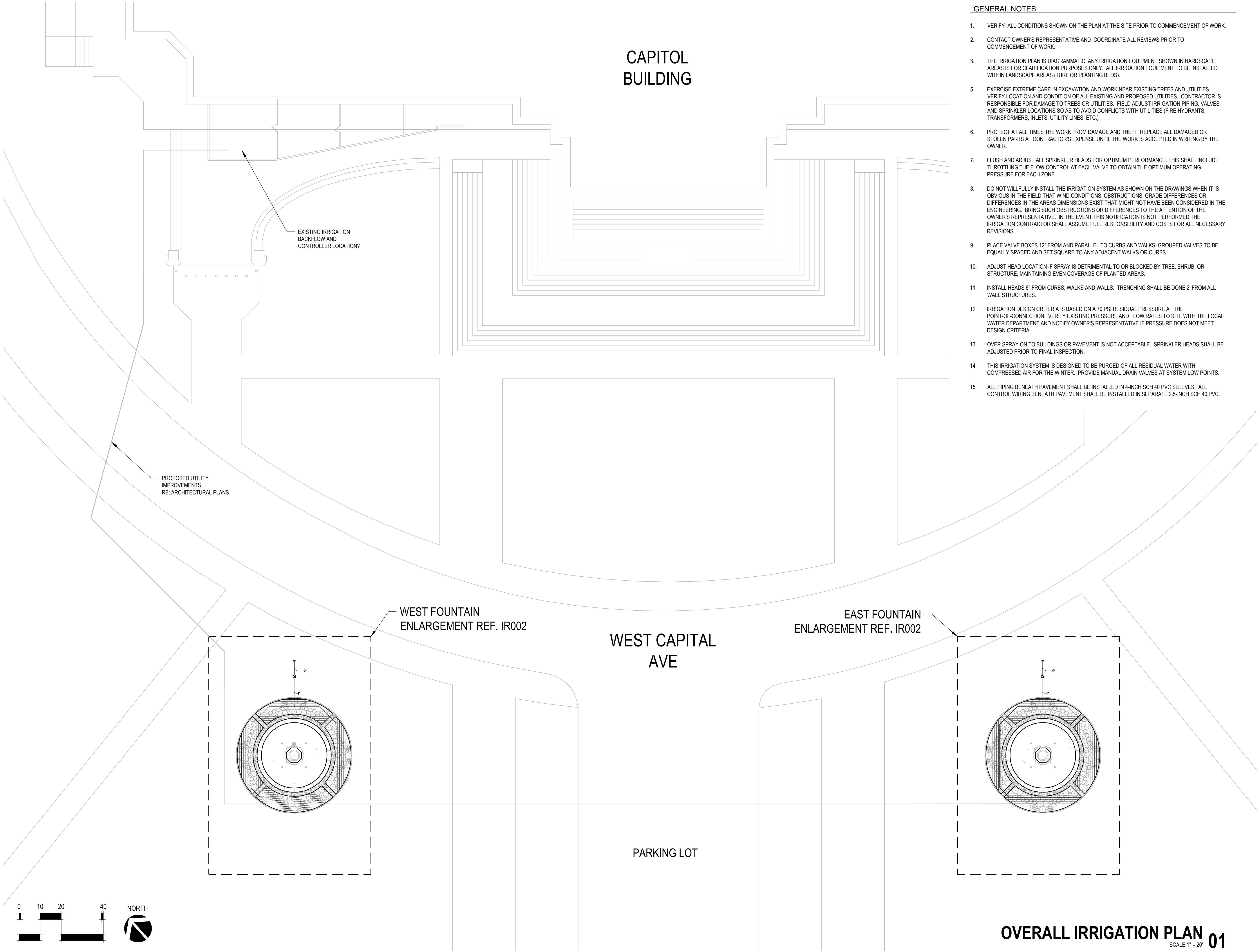
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L002  
4 OF 25 SHEETS  
MAY 6, 2024





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GENERAL NOTES

1. VERIFY ALL CONDITIONS SHOWN ON THE PLAN AT THE SITE PRIOR TO COMMENCEMENT OF WORK.
2. CONTACT OWNER'S REPRESENTATIVE AND COORDINATE ALL REVIEWS PRIOR TO COMMENCEMENT OF WORK.
3. THE IRRIGATION PLAN IS DIAGRAMMATIC. ANY IRRIGATION EQUIPMENT SHOWN IN HARDSCAPE AREAS IS FOR CLARIFICATION PURPOSES ONLY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN LANDSCAPE AREAS (TURF OR PLANTING BEDS).
5. EXERCISE EXTREME CARE IN EXCAVATION AND WORK NEAR EXISTING TREES AND UTILITIES. VERIFY LOCATION AND CONDITION OF ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO TREES OR UTILITIES. FIELD ADJUST IRRIGATION PIPING, VALVES, AND SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES (FIRE HYDRANTS, TRANSFORMERS, INLETS, UTILITY LINES, ETC.)
6. PROTECT AT ALL TIMES THE WORK FROM DAMAGE AND THEFT, REPLACE ALL DAMAGED OR STOLEN PARTS AT CONTRACTOR'S EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
7. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. THIS SHALL INCLUDE THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
8. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT WIND CONDITIONS, OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREAS DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. BRING SUCH OBSTRUCTIONS OR DIFFERENCES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND COSTS FOR ALL NECESSARY REVISIONS.
9. PLACE VALVE BOXES 12" FROM AND PARALLEL TO CURBS AND WALKS, GROUPED VALVES TO BE EQUALLY SPACED AND SET SQUARE TO ANY ADJACENT WALKS OR CURBS.
10. ADJUST HEAD LOCATION IF SPRAY IS DETRIMENTAL TO OR BLOCKED BY TREE, SHRUB, OR STRUCTURE, MAINTAINING EVEN COVERAGE OF PLANTED AREAS.
11. INSTALL HEADS 6" FROM CURBS, WALKS AND WALLS. TRENCHING SHALL BE DONE 2' FROM ALL WALL STRUCTURES.
12. IRRIGATION DESIGN CRITERIA IS BASED ON A 70 PSI RESIDUAL PRESSURE AT THE POINT-OF-CONNECTION. VERIFY EXISTING PRESSURE AND FLOW RATES TO SITE WITH THE LOCAL WATER DEPARTMENT AND NOTIFY OWNER'S REPRESENTATIVE IF PRESSURE DOES NOT MEET DESIGN CRITERIA.
13. OVER SPRAY ON TO BUILDINGS OR PAVEMENT IS NOT ACCEPTABLE. SPRINKLER HEADS SHALL BE ADJUSTED PRIOR TO FINAL INSPECTION.
14. THIS IRRIGATION SYSTEM IS DESIGNED TO BE PURGED OF ALL RESIDUAL WATER WITH COMPRESSED AIR FOR THE WINTER. PROVIDE MANUAL DRAIN VALVES AT SYSTEM LOW POINTS.
15. ALL PIPING BENEATH PAVEMENT SHALL BE INSTALLED IN 4-INCH SCH 40 PVC SLEEVES. ALL CONTROL WIRING BENEATH PAVEMENT SHALL BE INSTALLED IN SEPARATE 2.5-INCH SCH 40 PVC.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATION

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # O2204-01  
ASSET #  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 05/06/2024

CAD DWG FILE:  
DRAWN BY: MH/AS  
CHECKED BY: CR  
DESIGNED BY: MH/AS

SHEET TITLE:  
OVERALL  
IRRIGATION PLAN

SHEET NUMBER:


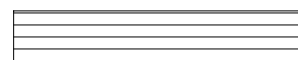



IR001  
6 OF 25 SHEETS

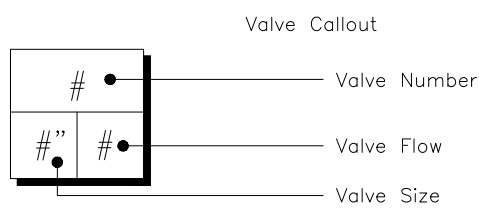
MAY 6, 2024

OVERALL IRRIGATION PLAN 01  
SCALE 1" = 20'



## IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL
	Rain Bird XCZ-100-PRF
	Area to Receive Dripline Rain Bird XFD-06-12
SYMBOL	MANUFACTURER/MODEL
	Point of Connection to be determined (assumed connection to existing 2" mainline)
	Irrigation Lateral Line: PVC Class 200 SDR 21
	Irrigation Mainline: PVC Class 200 SDR 21

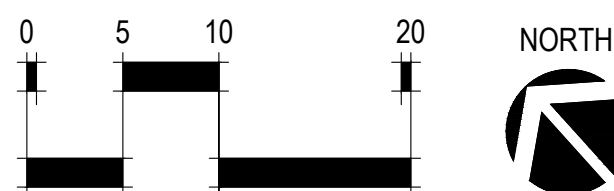
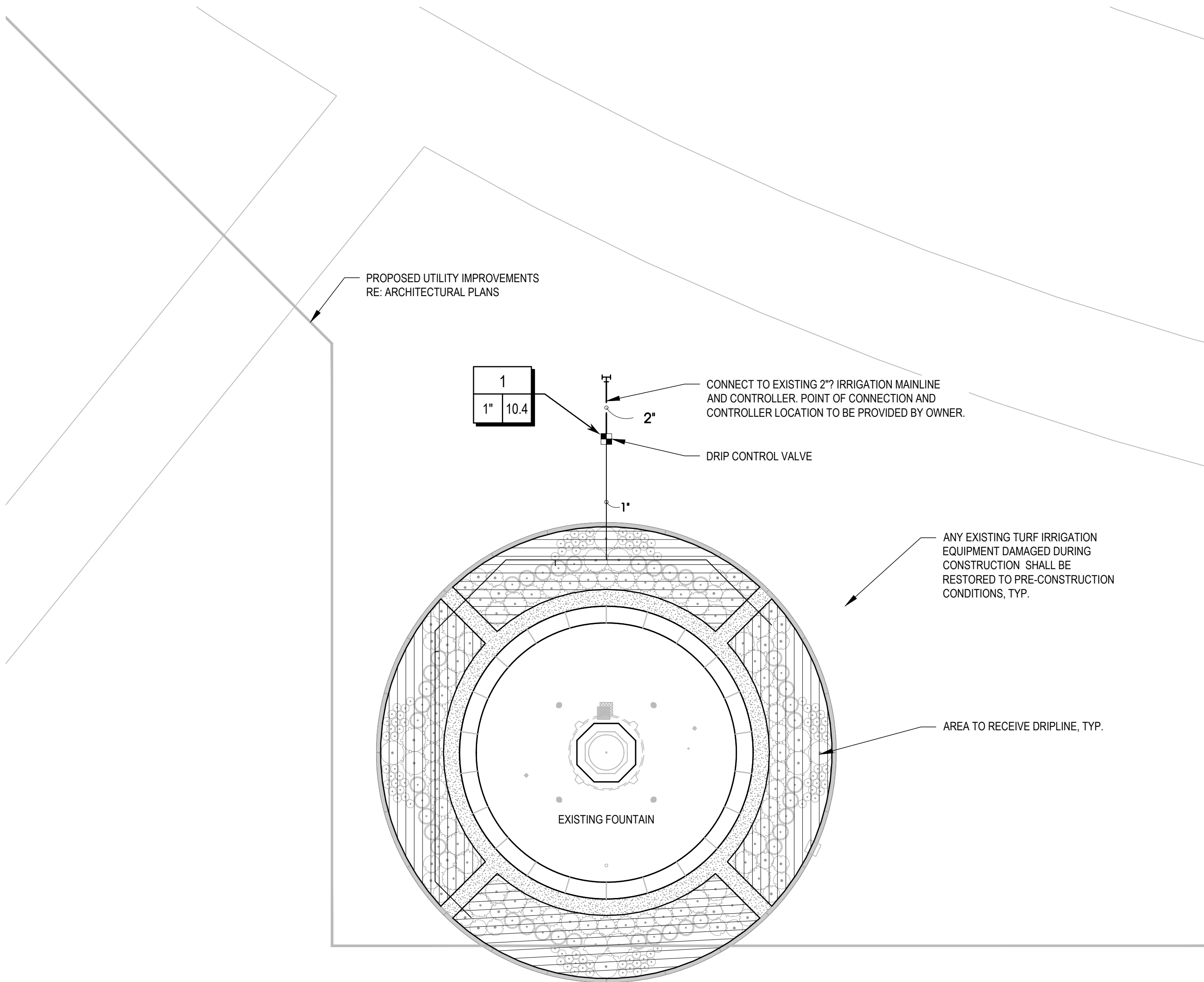


## VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	PSI	PSI @ POC
1	Rain Bird XCZ-100-PRF	1"	Area for Dripline	10.37	30	43.5	43.5
2	Rain Bird XCZ-100-PRF	1"	Area for Dripline	10.38	30	43.6	43.6

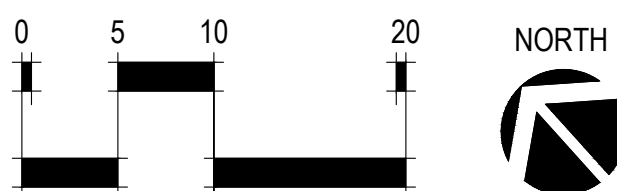
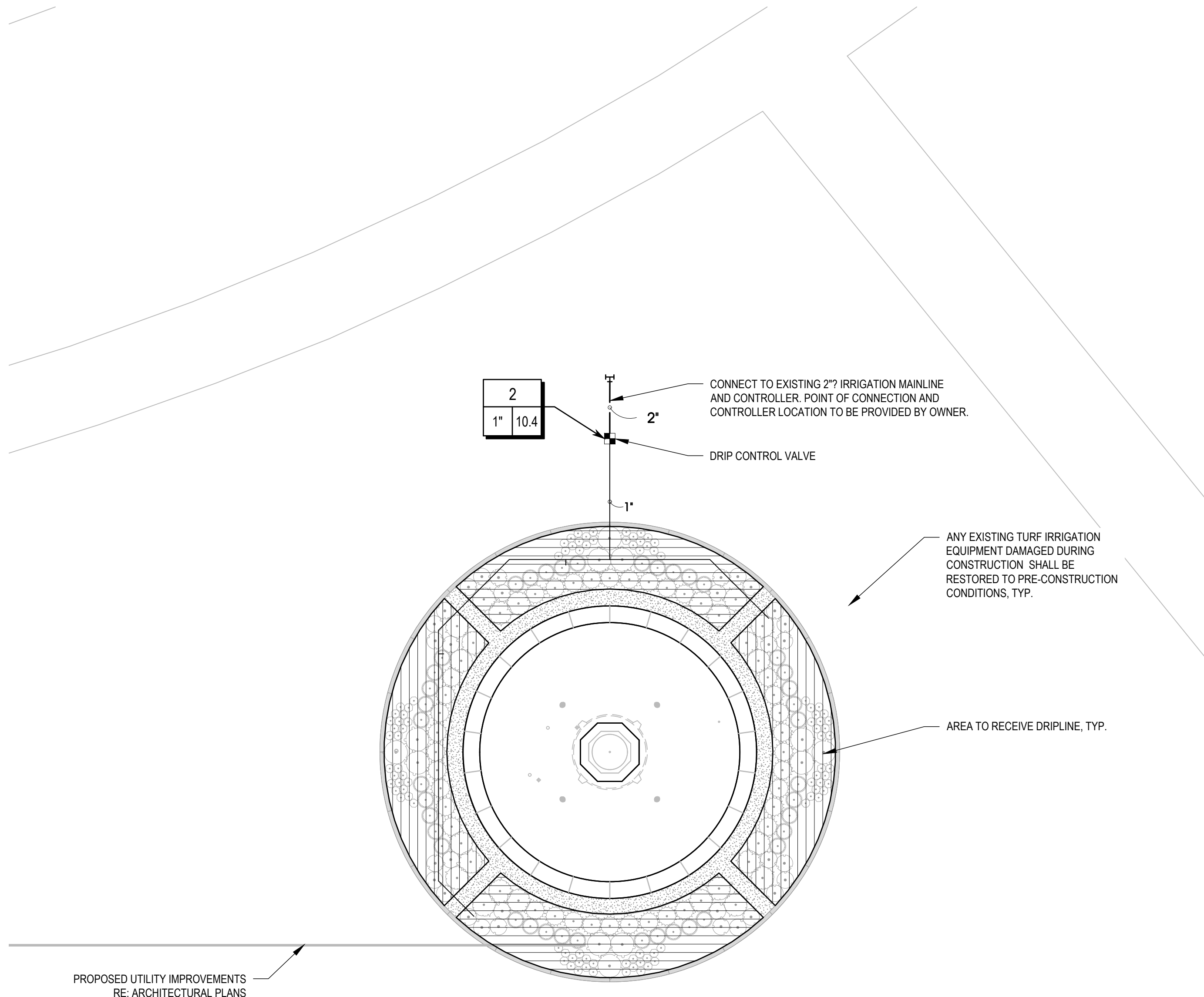
## IRRIGATION NOTES

- VERIFY ALL CONDITIONS SHOWN ON THE PLAN AT THE SITE PRIOR TO COMMENCEMENT OF WORK.
- CONTACT OWNER'S REPRESENTATIVE AND COORDINATE ALL REVIEWS PRIOR TO COMMENCEMENT OF WORK.
- THE IRRIGATION PLAN IS DIAGRAMMATIC. ANY IRRIGATION EQUIPMENT SHOWN IN HARDSCAPE AREAS IS FOR CLARIFICATION PURPOSES ONLY. ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN LANDSCAPE AREAS (TURF OR PLANTING BEDS).
- EXERCISE EXTREME CARE IN EXCAVATION AND WORK NEAR EXISTING TREES AND UTILITIES. VERIFY LOCATION AND CONDITION OF ALL EXISTING AND PROPOSED UTILITIES. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO TREES OR UTILITIES. FIELD ADJUST IRRIGATION PIPING, VALVES, AND SPRINKLER LOCATIONS SO AS TO AVOID CONFLICTS WITH UTILITIES (FIRE HYDRANTS, TRANSFORMERS, INLETS, UTILITY LINES, ETC.)
- PROTECT AT ALL TIMES THE WORK FROM DAMAGE AND THEFT, REPLACE ALL DAMAGED OR STOLEN PARTS AT CONTRACTOR'S EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER.
- FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE. THIS SHALL INCLUDE THROTTLING THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
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WEST FOUNTAIN IRRIGATION PLAN 01

SCALE 1" = 10'



EAST FOUNTAIN IRRIGATION PLAN 02

SCALE 1" = 10'

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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DATE:

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DRAWN BY: MH/AS  
CHECKED BY: CR  
DESIGNED BY: MH/AS

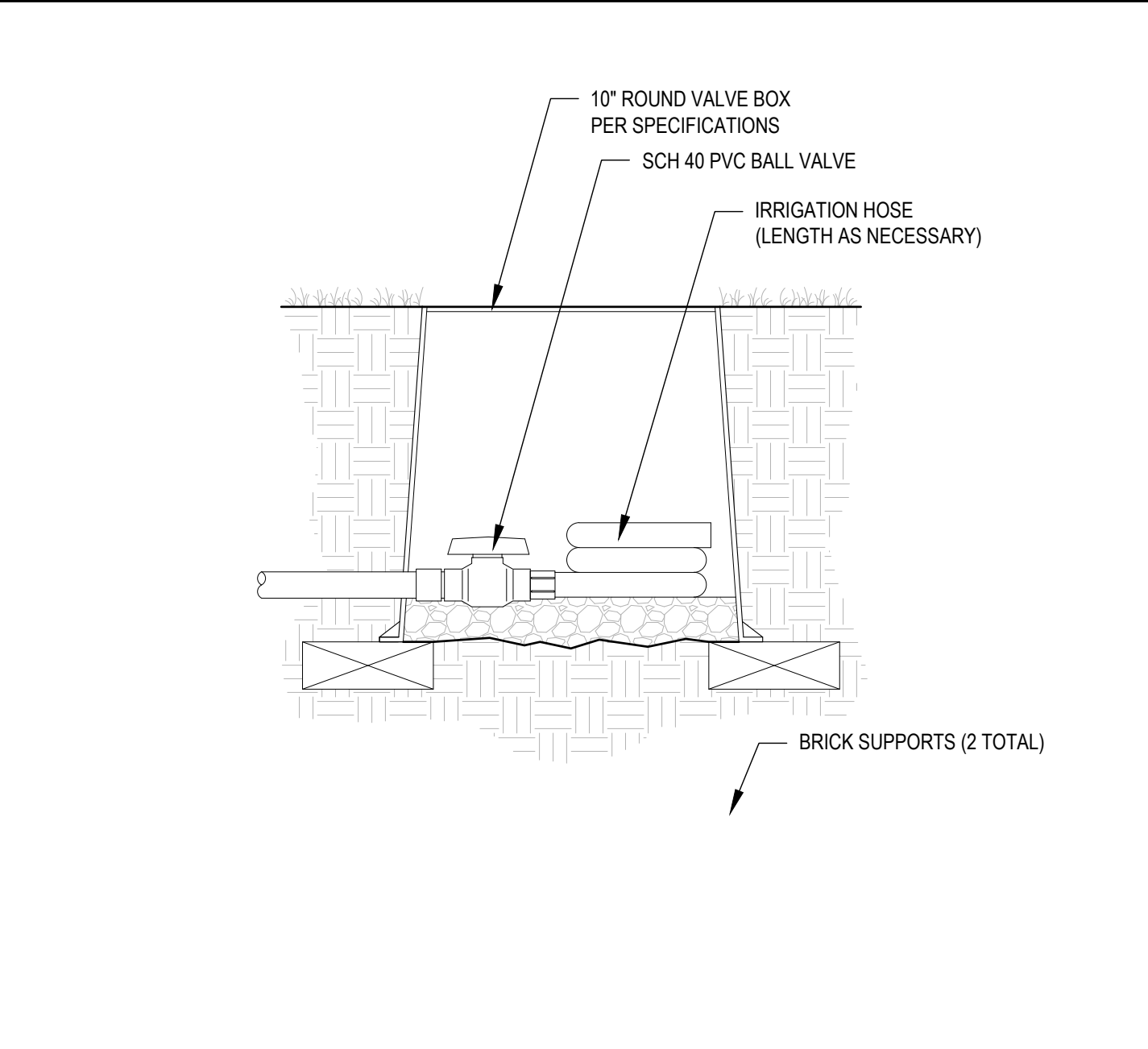
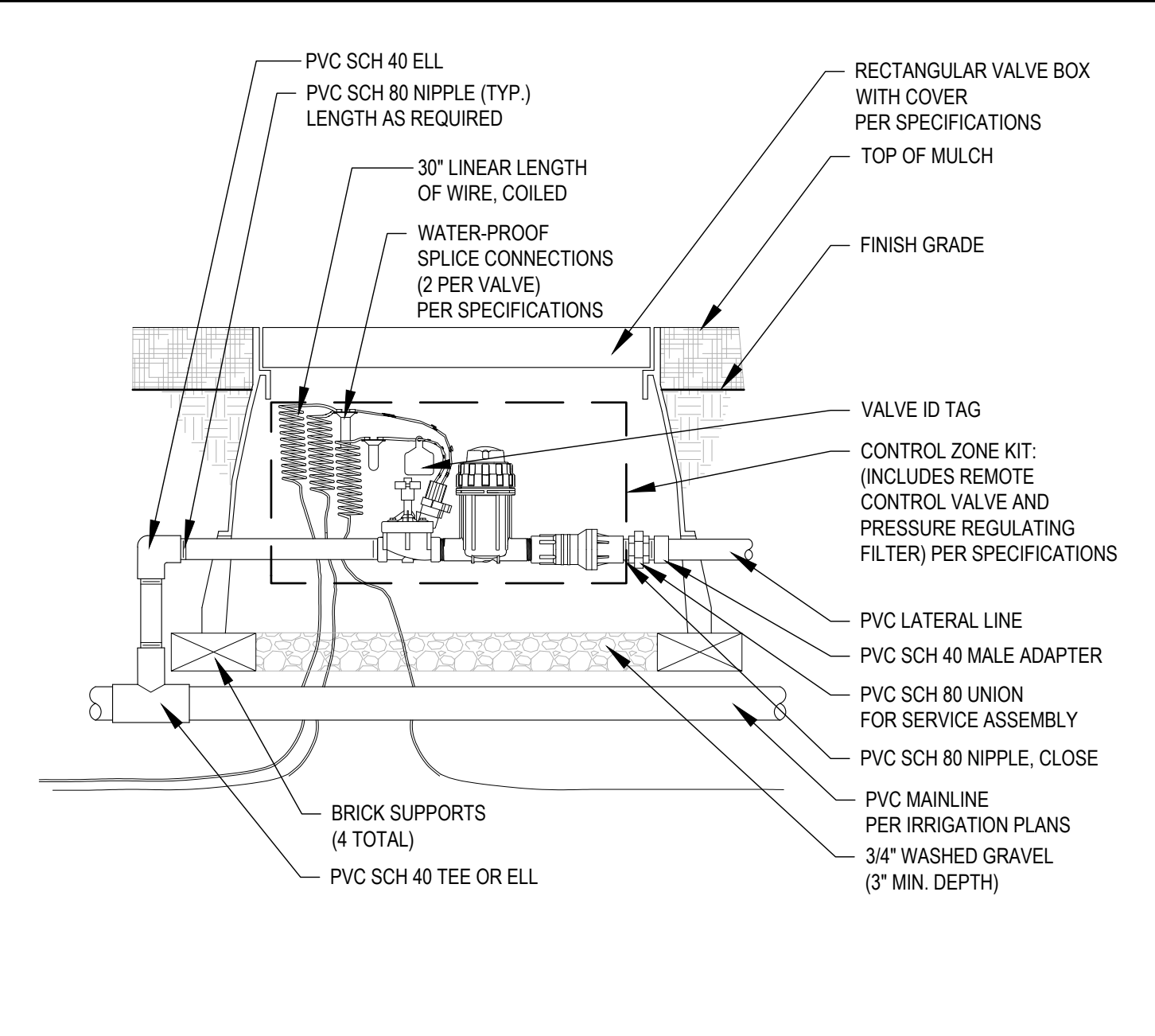
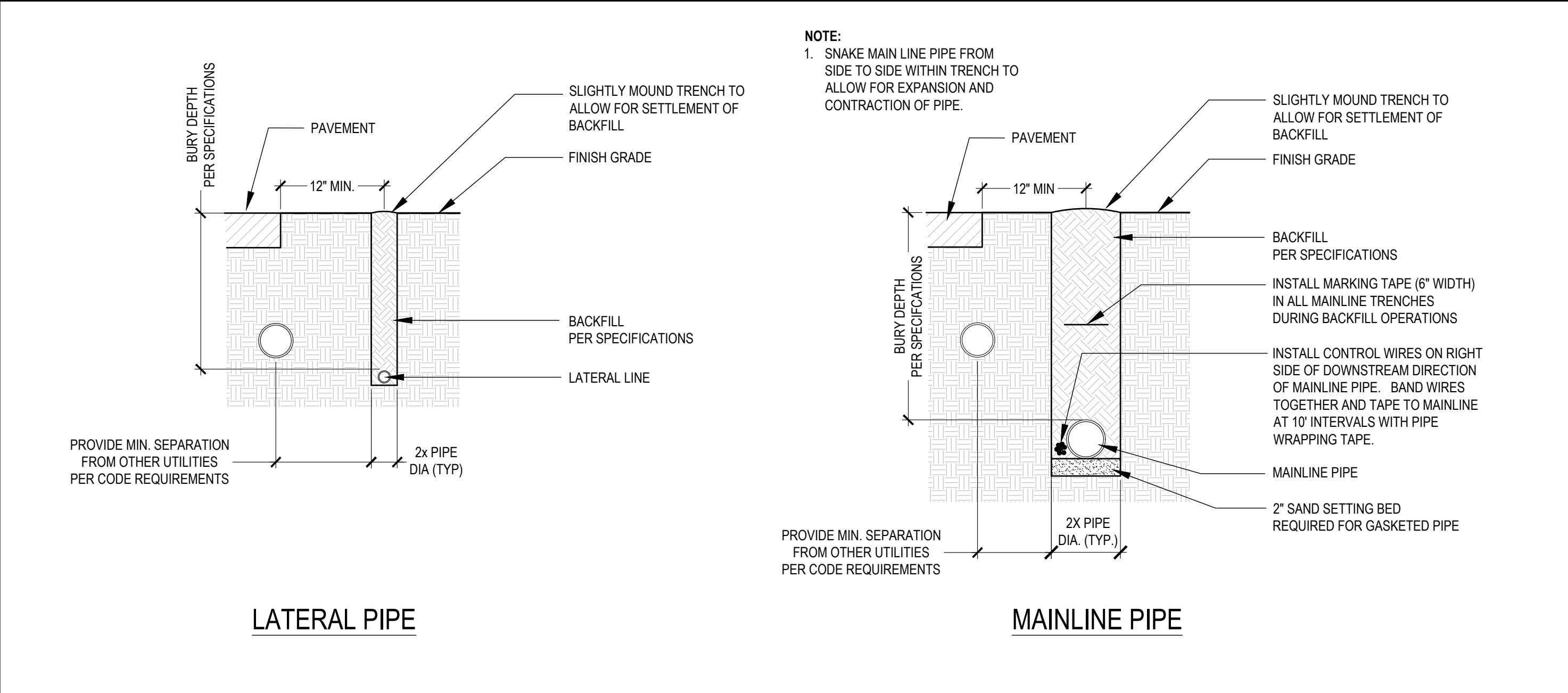
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ENLARGEMENTS

SHEET NUMBER:

IR002  
7 OF 25 SHEETS

MAY 6, 2024

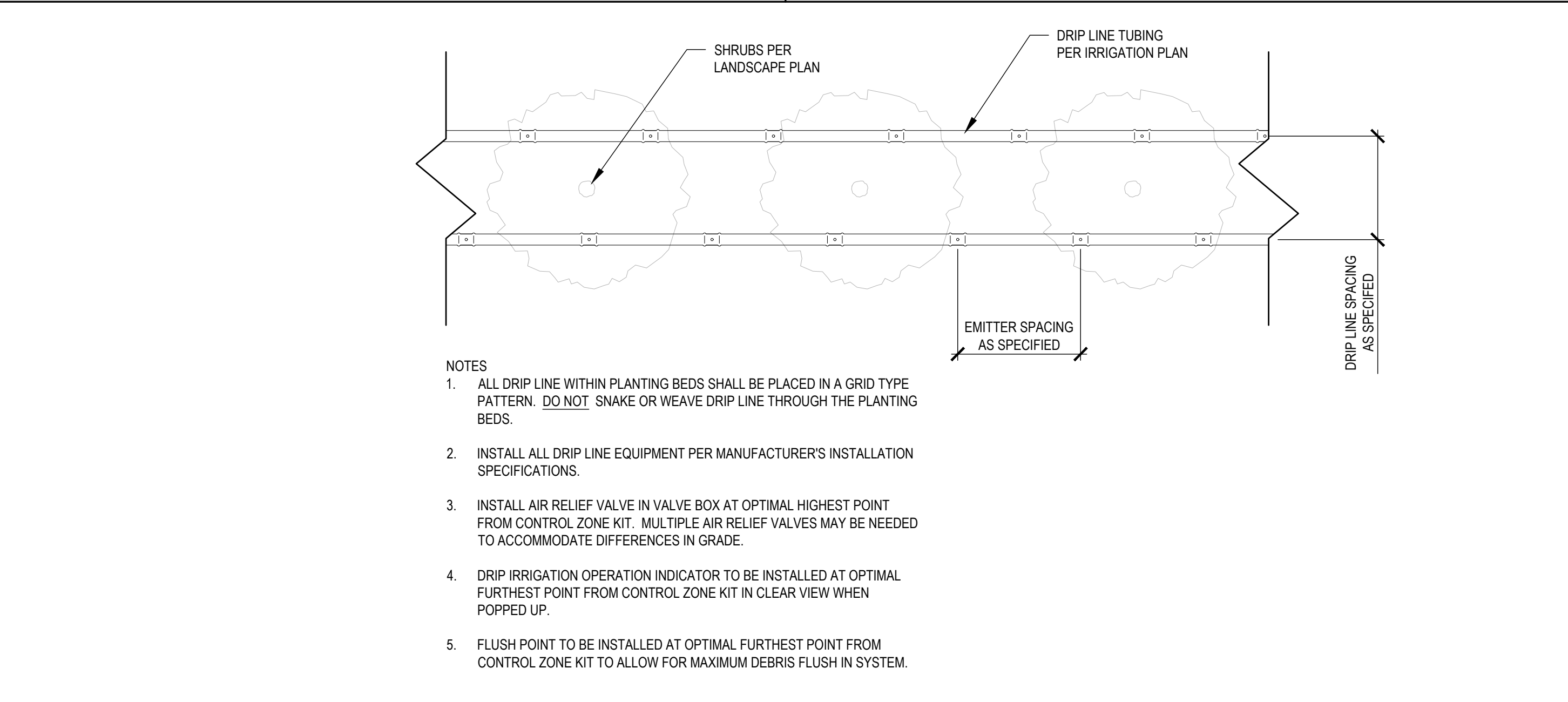
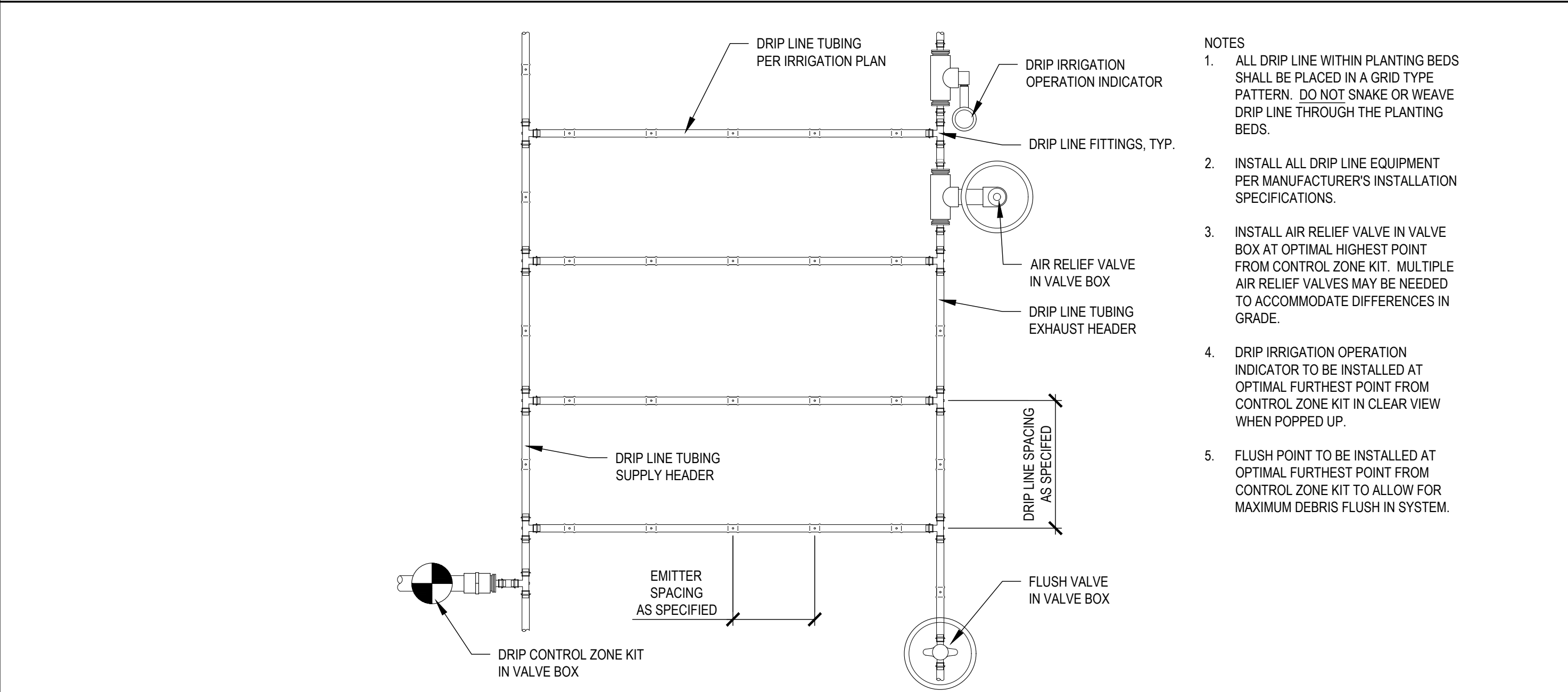




## TRENCHING 01

## DRIP CONTROL VALVE 02

## DRIPLINE FLUSH VALVE 03



## DRIPLINE IN PLANTING BED - END FEED 04

## DRIPLINE AT SHRUB PLANTINGS 05

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**MICHAEL L. PARSON,**  
**GOVERNOR**

**CRAIG A. RHODES**  
LANDSCAPE ARCHITECT  
MISSOURI L.A. NO. 1999140495

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**RESTORATION**

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**201 W. CAPITOL AVE.**  
**JEFFERSON CITY, MISSOURI**

**PROJECT #** 02204-01  
**ASSET #**  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

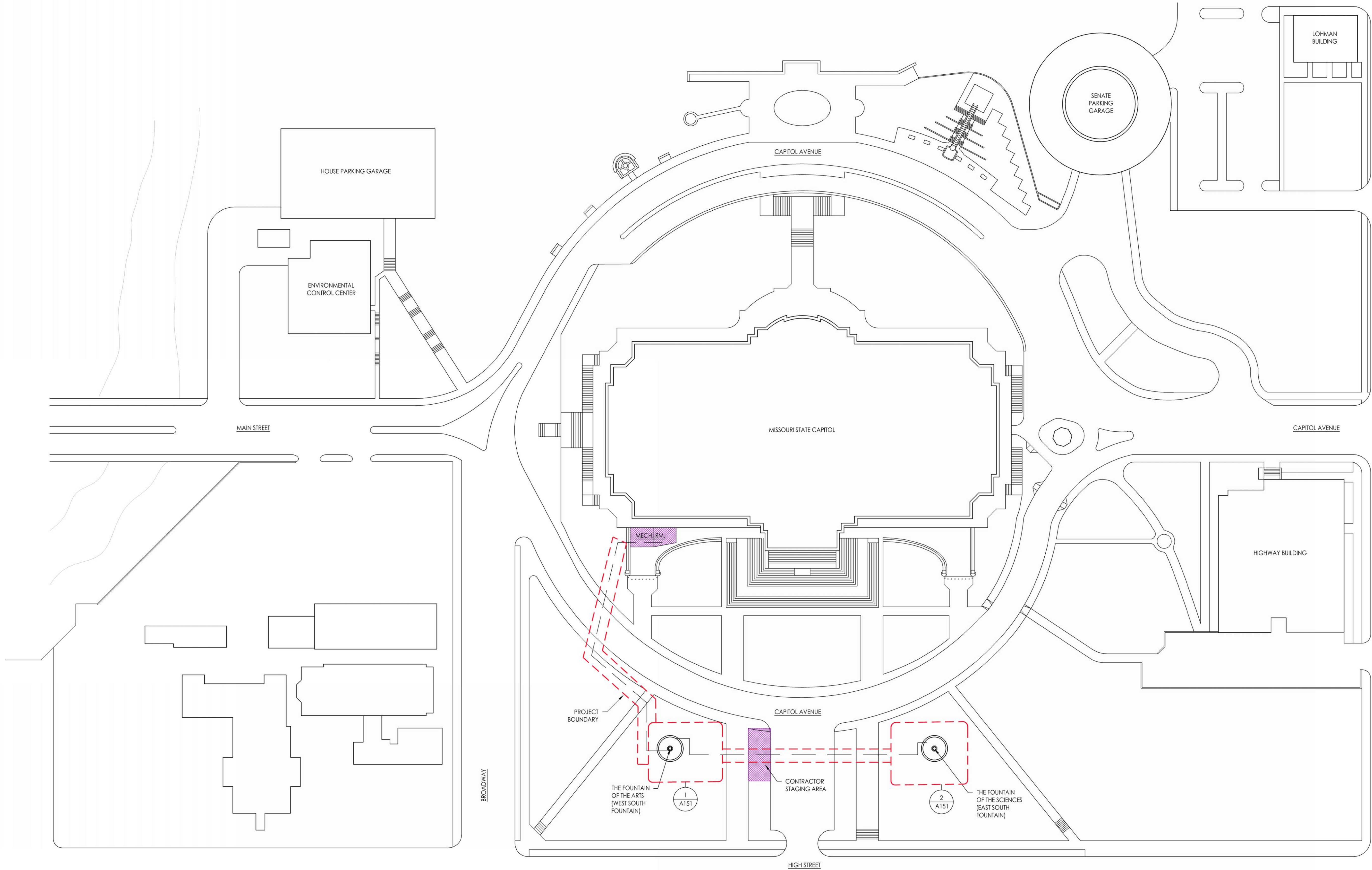
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**CHECKED BY:** CR  
**DESIGNED BY:** MH/AS

**SHEET TITLE:**  
**IRRIGATION DETAILS**

**SHEET NUMBER:**  
**IR003**  
8 OF 25 SHEETS  
MAY 6, 2024





STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



Angie Gabler - Architect  
MO# A-2016030717

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ISSUE DATE: 5/6/2024

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ARCHITECTURAL  
SITE PLAN

SHEET NUMBER:

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9 OF 25 SHEETS

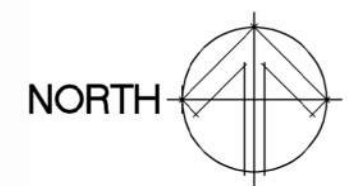
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1 ARCHITECTURAL SITE PLAN

Scale: 1/64" = 1'-0"  
64 0 64 128







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SHEET TITLE:  
BASEMENT PLAN





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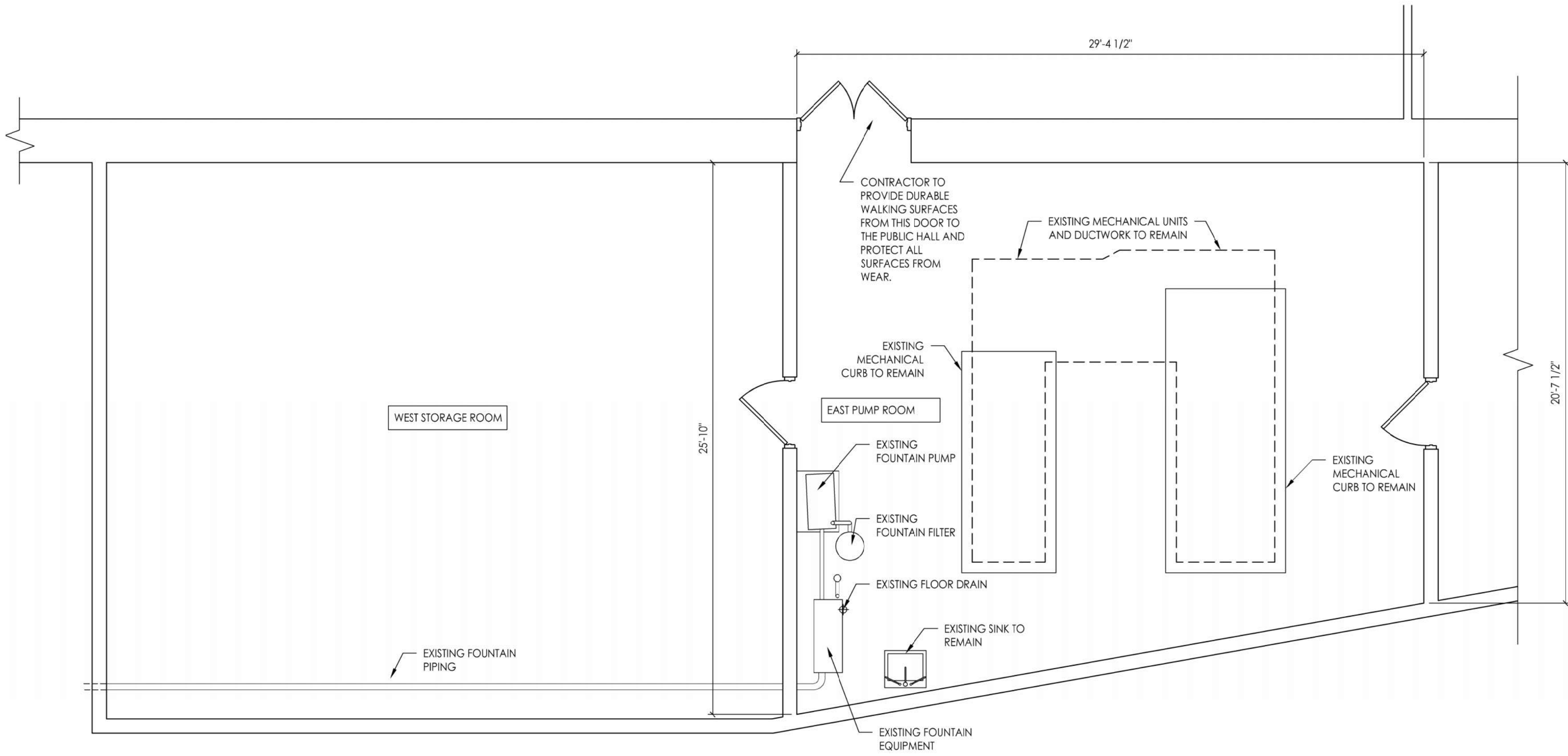
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SOUTH FOUNTAINS  
PUMP ROOM  
ENLARGED PLAN

SHEET NUMBER:

A150

11 OF 25 SHEETS

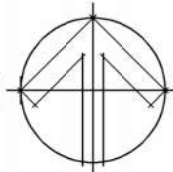
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1 EXISTING SOUTH FOUNTAINS PUMP ROOM ENLARGED PLAN



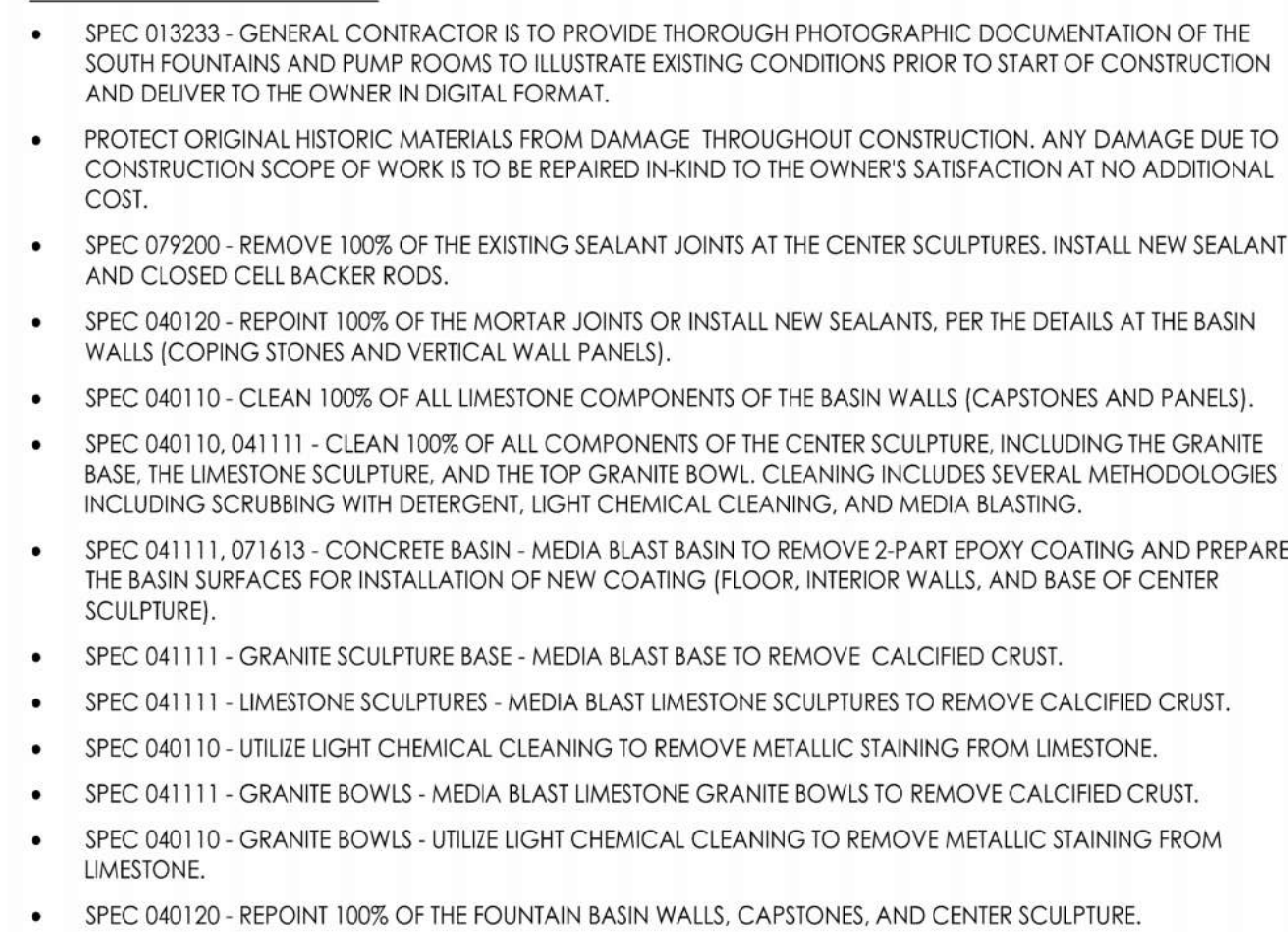
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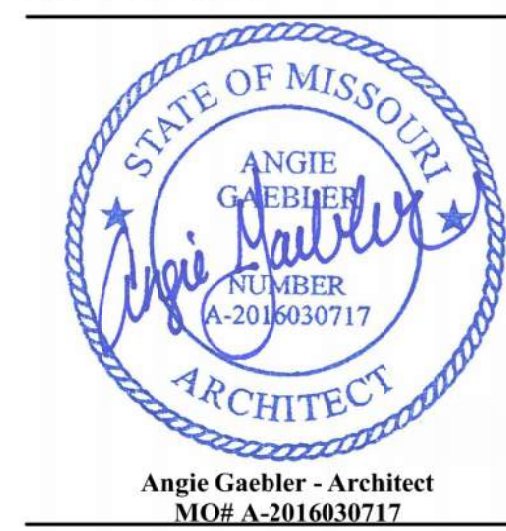




Scale: 1" = 1'-0"



- (A) SPEC 041111, 071613 - REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE BASIN (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING, PER SPECIFICATIONS. PREPARE SURFACE FOR NEW COATING, PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED [SEE NOTE 'B'], APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.
- (B) SPEC 041111, 071613 - AFTER EXISTING COATING IS REMOVED, APPLY NEW EPOXY BASED CONCRETE PATCH TO RAISE THE EXISTING LOW AREA OF THE CONCRETE BASIN AND SLOPE THE BASIN FLOOR TOWARD THE DRAIN. FEATHER PATCH OUT TO ADJACENT FLOOR TO CREATE A SEAMLESS APPEARANCE.
- (C) SPEC 040120 - REMOVE EXISTING DAMAGED AND DETERIORATED LIMESTONE CAP. INSTALL NEW LIMESTONE UNITS, NEW STONE TO EXACTLY MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING. PROVIDE LIMESTONE SAMPLES FOR APPROVAL.
- (D) SPEC 040120 - EXISTING LIMESTONE CHIP OR SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH WITH COMPATIBLE PATCHING COMPOUND.
- (E) INSTALL NEW CUSTOM-SIZED FRP GRATING AND REQUIRED SUPPORTS OVER EXISTING SUMP PIT. REFER TO MECHANICAL DRAWINGS.
- (F) SPEC 040110 - AFTER STONE IS CLEANED, APPLY STONE CONSOLIDANT.
- (G) SPEC 040120 - INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK  $\frac{3}{8}$ " AND INSTALL AND FILL THE JOINTS WITH A COMPATIBLE PATCHING COMPOUND.
- (H) SPEC 040120 - REMOVE EXISTING INCIPIENT LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (I) SPEC 040120 - REMOVE EXISTING FAILING PATCH. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (J) SPEC 040120 - REMOVE EXISTING DAMAGED OR DETERIORATED LIMESTONE VERTICAL PANEL. INSTALL NEW REPLICA LIMESTONE UNIT. NEW STONE PANEL TO MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING.



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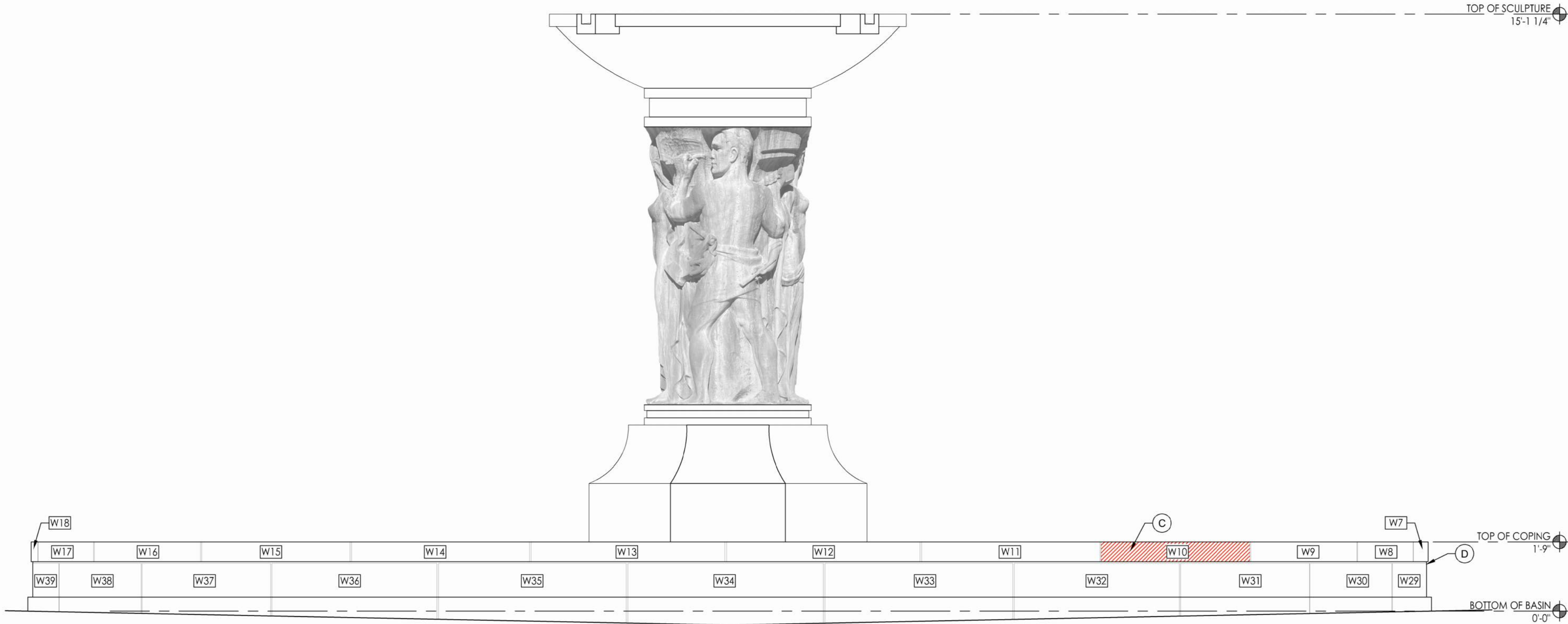
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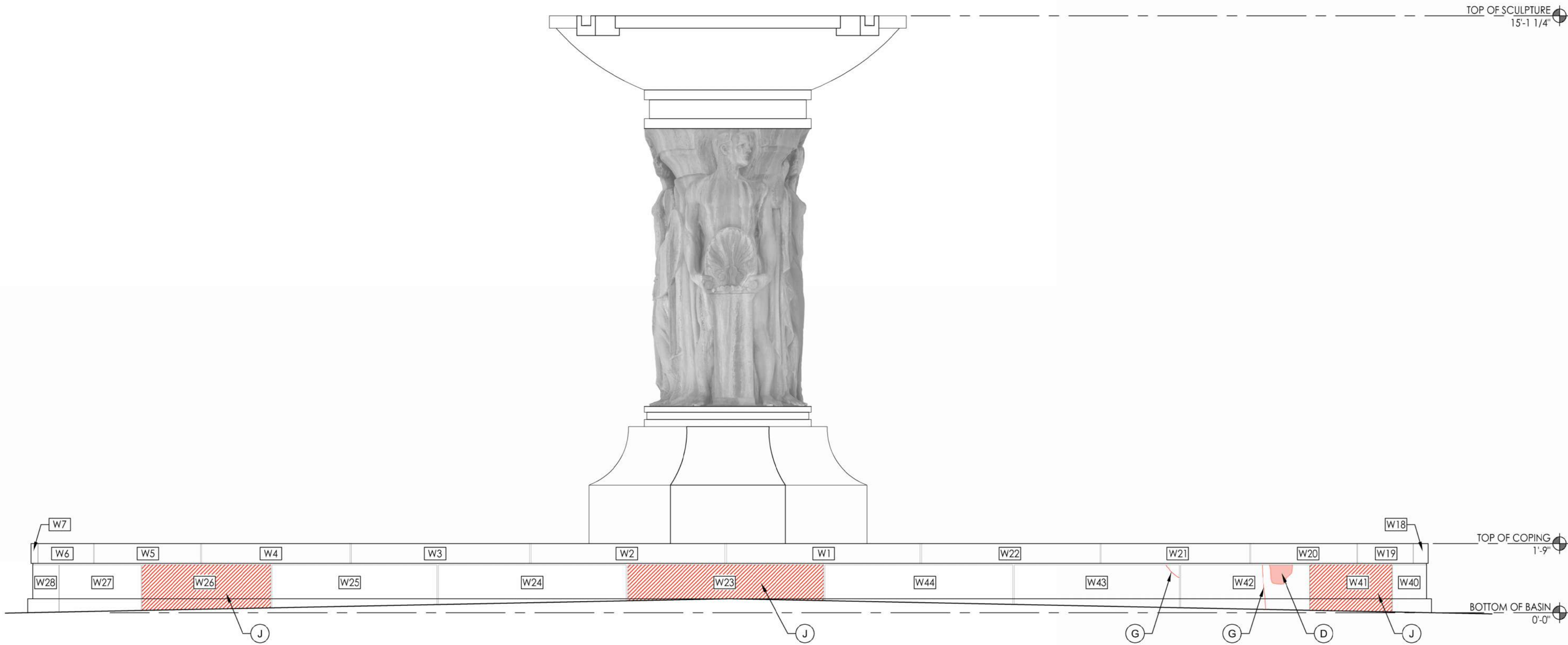
## MAY 6, 2024





2 SOUTH FOUNTAINS - FOUNTAIN OF THE ARTS (WEST) - SOUTH ELEVATION

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



1 SOUTH FOUNTAINS - FOUNTAIN OF THE ARTS (WEST) - NORTH ELEVATION

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

GENERAL NOTES:

- SPEC 013233 - GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION OF THE SOUTH FOUNTAINS AND PUMP ROOMS TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
- PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- SPEC 079200 - REMOVE 100% OF THE EXISTING SEALANT JOINTS AT THE CENTER SCULPTURES. INSTALL NEW SEALANT AND CLOSED CELL BACKER RODS.
- SPEC 040120 - REPOINT 100% OF THE MORTAR JOINTS OR INSTALL NEW SEALANTS, PER THE DETAILS AT THE BASIN WALLS [COPING STONES AND VERTICAL WALL PANELS].
- SPEC 040110 - CLEAN 100% OF ALL LIMESTONE COMPONENTS OF THE BASIN WALLS (CAPSTONES AND PANELS).
- SPEC 040110, 041111 - CLEAN 100% OF ALL COMPONENTS OF THE CENTER SCULPTURE, INCLUDING THE GRANITE BASE, THE LIMESTONE SCULPTURE, AND THE TOP GRANITE BOWL. CLEANING INCLUDES SEVERAL METHODOLOGIES INCLUDING SCRUBBING WITH DETERGENT, LIGHT CHEMICAL CLEANING, AND MEDIA BLASTING.
- SPEC 041111, 071613 - CONCRETE BASIN - MEDIA BLAST BASIN TO REMOVE 2-PART EPOXY COATING AND PREPARE THE BASIN SURFACES FOR INSTALLATION OF NEW COATING (FLOOR, INTERIOR WALLS, AND BASE OF CENTER SCULPTURE).
- SPEC 041111 - GRANITE SCULPTURE BASE - MEDIA BLAST BASE TO REMOVE CALCIFIED CRUST.
- SPEC 041111 - LIMESTONE SCULPTURES - MEDIA BLAST LIMESTONE SCULPTURES TO REMOVE CALCIFIED CRUST.
- SPEC 040110 - UTILIZE LIGHT CHEMICAL CLEANING TO REMOVE METALLIC STAINING FROM LIMESTONE.
- SPEC 041111 - GRANITE BOWLS - MEDIA BLAST LIMESTONE GRANITE BOWLS TO REMOVE CALCIFIED CRUST.
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- SPEC 040120 - REPOINT 100% OF THE FOUNTAIN BASIN WALLS, CAPSTONES, AND CENTER SCULPTURE.

SOUTH FOUNTAINS KEYNOTES:

- (A) SPEC 041111, 071613 - REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE BASIN (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING, PER SPECIFICATIONS. PREPARE SURFACE FOR NEW COATING, PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED (SEE NOTE 'B'), APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.
- (B) SPEC 041111, 071613 - AFTER EXISTING COATING IS REMOVED, APPLY NEW EPOXY BASED CONCRETE PATCH TO RAISE THE EXISTING LOW AREA OF THE CONCRETE BASIN AND SLOPE THE BASIN FLOOR TOWARD THE DRAIN. FEATHER PATCH OUT TO ADJACENT FLOOR TO CREATE A SEAMLESS APPEARANCE.
- (C) SPEC 040120 - REMOVE ENTIRE EXISTING DAMAGED AND DETERIORATED LIMESTONE CAP. INSTALL NEW LIMESTONE UNITS. NEW STONE TO EXACTLY MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING. PROVIDE LIMESTONE SAMPLES FOR APPROVAL.
- (D) SPEC 040120 - EXISTING LIMESTONE CHIP OR SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH WITH COMPATIBLE PATCHING COMPOUND.
- (E) INSTALL NEW CUSTOM-SIZED FRP GRATING AND REQUIRED SUPPORTS OVER EXISTING SUMP PIT. REFER TO MECHANICAL DRAWINGS.
- (F) SPEC 040110 - AFTER STONE IS CLEANED, APPLY STONE CONSOLIDANT.
- (G) SPEC 040120 - INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION, RAKE BACK  $\frac{3}{8}$ ", AND INSTALL AND FILL THE JOINTS WITH A COMPATIBLE PATCHING COMPOUND.
- (H) SPEC 040120 - REMOVE EXISTING INCIPIENT LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (I) SPEC 040120 - REMOVE EXISTING FAILING PATCH. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (J) SPEC 040120 - REMOVE EXISTING DAMAGED OR DETERIORATED LIMESTONE VERTICAL PANEL. INSTALL NEW REPLICA LIMESTONE UNIT. NEW STONE PANEL TO MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING.

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DESIGN AND  
CONSTRUCTION

PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATION

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # O2204-01  
ASSET #  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 5/6/2024

CAD DWG FILE: AG  
DRAWN BY: AG  
CHECKED BY: AG  
DESIGNED BY: AG

SHEET TITLE:  
SOUTH FOUNTAINS -  
WEST FOUNTAIN  
(ARTS) - FOUNTAIN  
ELEVATIONS

SHEET NUMBER:

A200

13 OF 25 SHEETS

MAY 6, 2024



REMOVE EXISTING LIMESTONE SPALL AND DETERIORATED LIMESTONE. INSTALL REPLACEMENT LIMESTONE DUTCHMAN. NEW STONE TO EXACTLY MATCH THE EXISTING STONE IN COLOR, SIZE, PROFILE, TEXTURE, AND TOOLING. (APPROXIMATELY 48" X 5" X 5")

REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE SCULPTURE BASE (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING. PREPARE SURFACE FOR NEW COATING. PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED (SEE NOTE 'B' - SHEET A200), APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

3 SOUTH FOUNTAINS - FOUNTAIN OF THE ARTS (WEST) - SOUTH ELEVATION

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

EXISTING LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

APPLY STONE CONSOLIDANT TO DETERIORATED LIMESTONE.

REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE SCULPTURE BASE (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING. PREPARE SURFACE FOR NEW COATING. PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED (SEE NOTE 'B' - SHEET A200), APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.

4 SOUTH FOUNTAINS - FOUNTAIN OF THE ARTS (WEST) - WEST ELEVATION

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

EXISTING LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.

REMOVE EXISTING LIMESTONE SPALL AND DETERIORATED LIMESTONE. INSTALL LIMESTONE REPLACEMENT DUTCHMAN. NEW STONE TO EXACTLY MATCH THE EXISTING STONE IN COLOR, SIZE, PROFILE, TEXTURE, AND TOOLING. (APPROXIMATELY 36" X 5" X 5")

REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE SCULPTURE BASE (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING. PREPARE SURFACE FOR NEW COATING. PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED (SEE NOTE 'B' - SHEET A200), APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

1 SOUTH FOUNTAIN - FOUNTAIN OF THE ARTS (WEST) - NORTH ELEVATION

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

EXISTING LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.

INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION. RAKE BACK JOINT  $\frac{3}{8}$ " AND INSTALL COMPATIBLE PATCHING COMPOUND.

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2 SOUTH FOUNTAINS - FOUNTAIN OF THE ARTS (WEST) - EAST ELEVATION

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

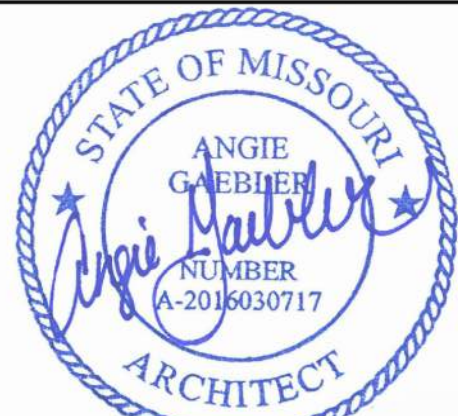
GENERAL NOTES:

- SPEC 013233 - GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION OF THE SOUTH FOUNTAINS AND PUMP ROOMS TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
- PROTECT ORIGINAL HISTORIC MATERIALS FROM DAMAGE THROUGHOUT CONSTRUCTION. ANY DAMAGE DUE TO CONSTRUCTION SCOPE OF WORK IS TO BE REPAIRED IN-KIND TO THE OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- SPEC 079200 - REMOVE 100% OF THE EXISTING SEALANT JOINTS AT THE CENTER SCULPTURES. INSTALL NEW SEALANT AND CLOSED CELL BACKER RODS.
- SPEC 040120 - REPOINT 100% OF THE MORTAR JOINTS OR INSTALL NEW SEALANTS, PER THE DETAILS AT THE BASIN WALLS (COPING STONES AND VERTICAL WALL PANELS).
- SPEC 040110 - CLEAN 100% OF ALL LIMESTONE COMPONENTS OF THE BASIN WALLS (CAPSTONES AND PANELS).
- SPEC 040110, 041111 - CLEAN 100% OF ALL COMPONENTS OF THE CENTER SCULPTURE, INCLUDING THE GRANITE BASE, THE LIMESTONE SCULPTURE, AND THE TOP GRANITE BOWL. CLEANING INCLUDES SEVERAL METHODOLOGIES INCLUDING SCRUBBING WITH DETERGENT, LIGHT CHEMICAL CLEANING, AND MEDIA BLASTING.
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SOUTH FOUNTAINS KEYNOTES:

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- (D) SPEC 040120 - EXISTING LIMESTONE CHIP OR SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH WITH COMPATIBLE PATCHING COMPOUND.
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Angie Gaebler - Architect  
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PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATION

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # 02204-01  
ASSET #  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

REVISION: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
ISSUE DATE: 5/6/2024

CAD DWG FILE: AG  
DRAWN BY: AG  
CHECKED BY: AG  
DESIGNED BY: AG

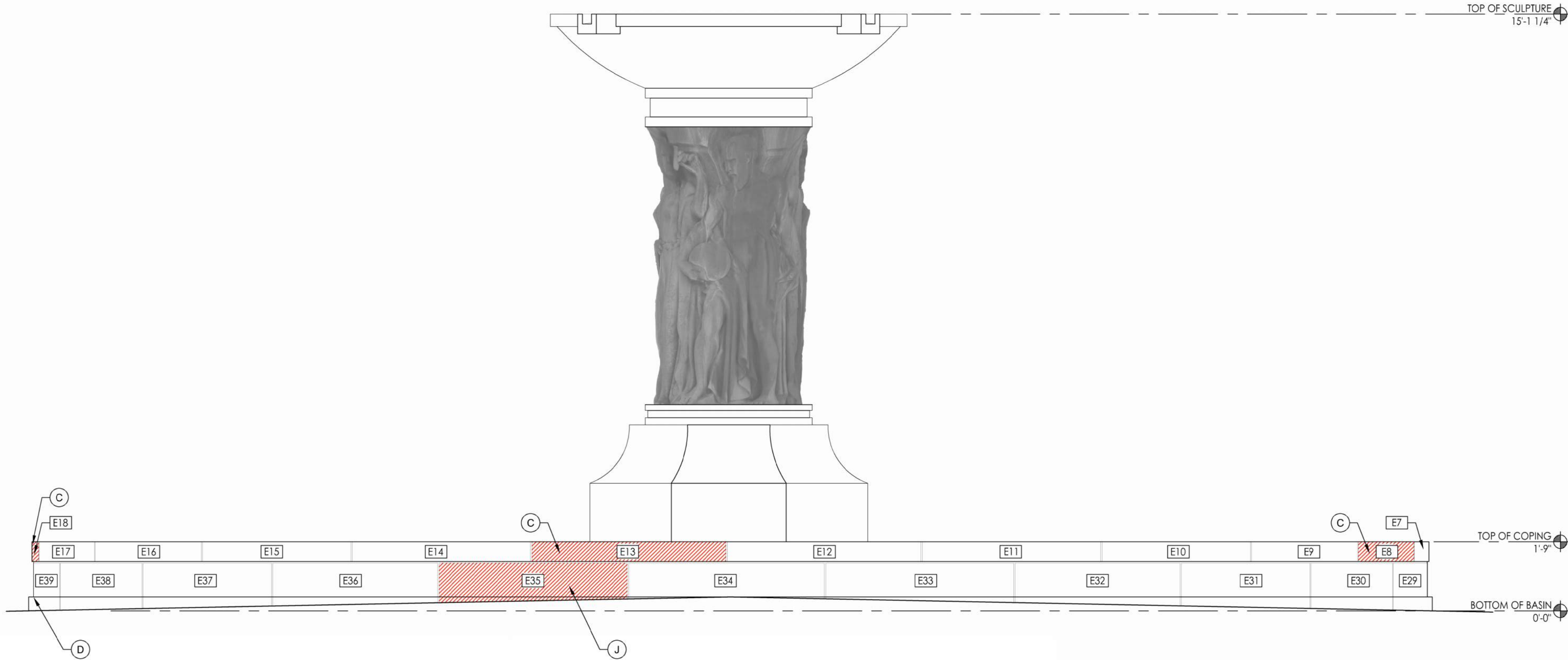
SHEET TITLE:  
SOUTH FOUNTAINS -  
WEST FOUNTAIN  
(ARTS) - SCULPTURE  
ELEVATIONS

SHEET NUMBER:

A201  
14 OF 25 SHEETS

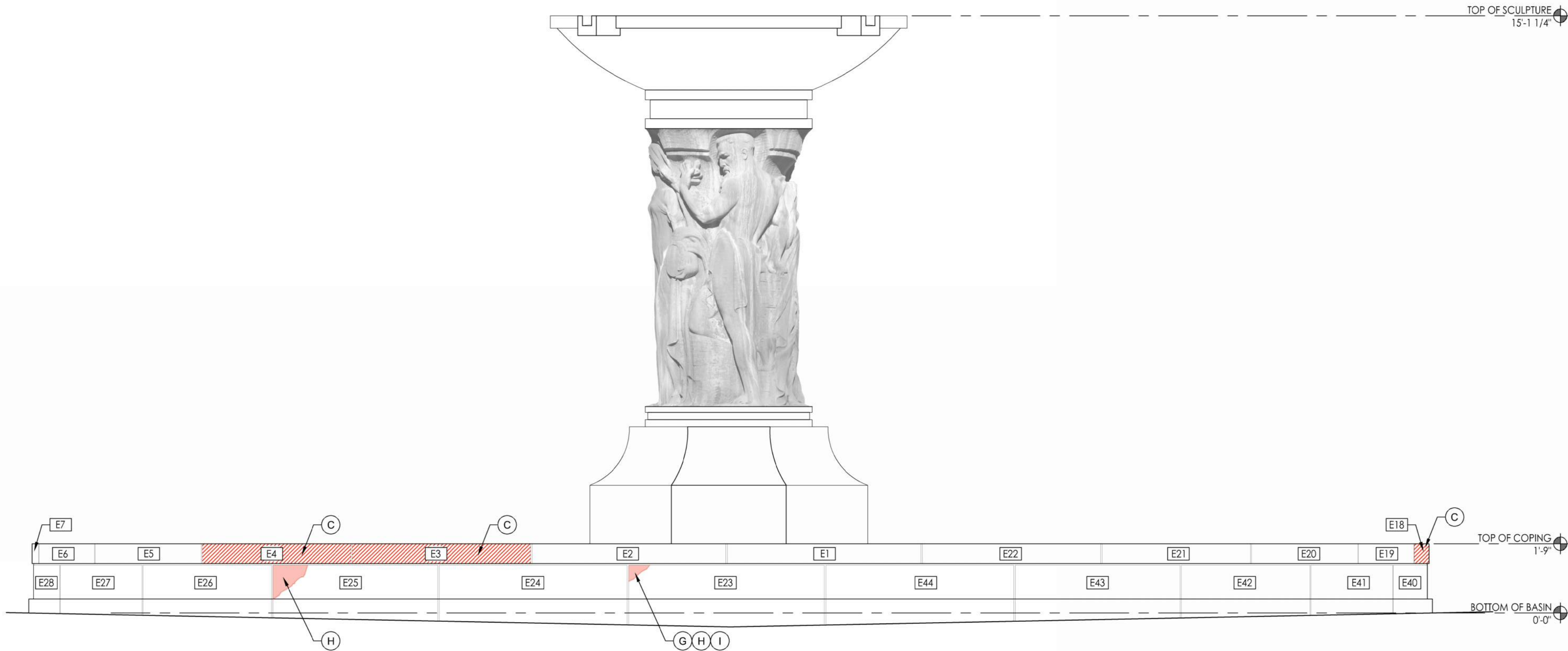
MAY 6, 2024





2 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - SOUTH ELEVATION

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



1 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - NORTH ELEVATION

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

#### GENERAL NOTES:

- SPEC 013233 - GENERAL CONTRACTOR IS TO PROVIDE THOROUGH PHOTOGRAPHIC DOCUMENTATION OF THE SOUTH FOUNTAINS AND PUMP ROOMS TO ILLUSTRATE EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND DELIVER TO THE OWNER IN DIGITAL FORMAT.
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- SPEC 079200 - REMOVE 100% OF THE EXISTING SEALANT JOINTS AT THE CENTER SCULPTURES. INSTALL NEW SEALANT AND CLOSED CELL BACKER RODS.
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CAD DWG FILE: AG  
DRAWN BY: AG  
CHECKED BY: AG  
DESIGNED BY: AG

SHEET TITLE:  
SOUTH FOUNTAINS -  
EAST FOUNTAIN  
(SCIENCES) - FOUNTAIN  
ELEVATIONS

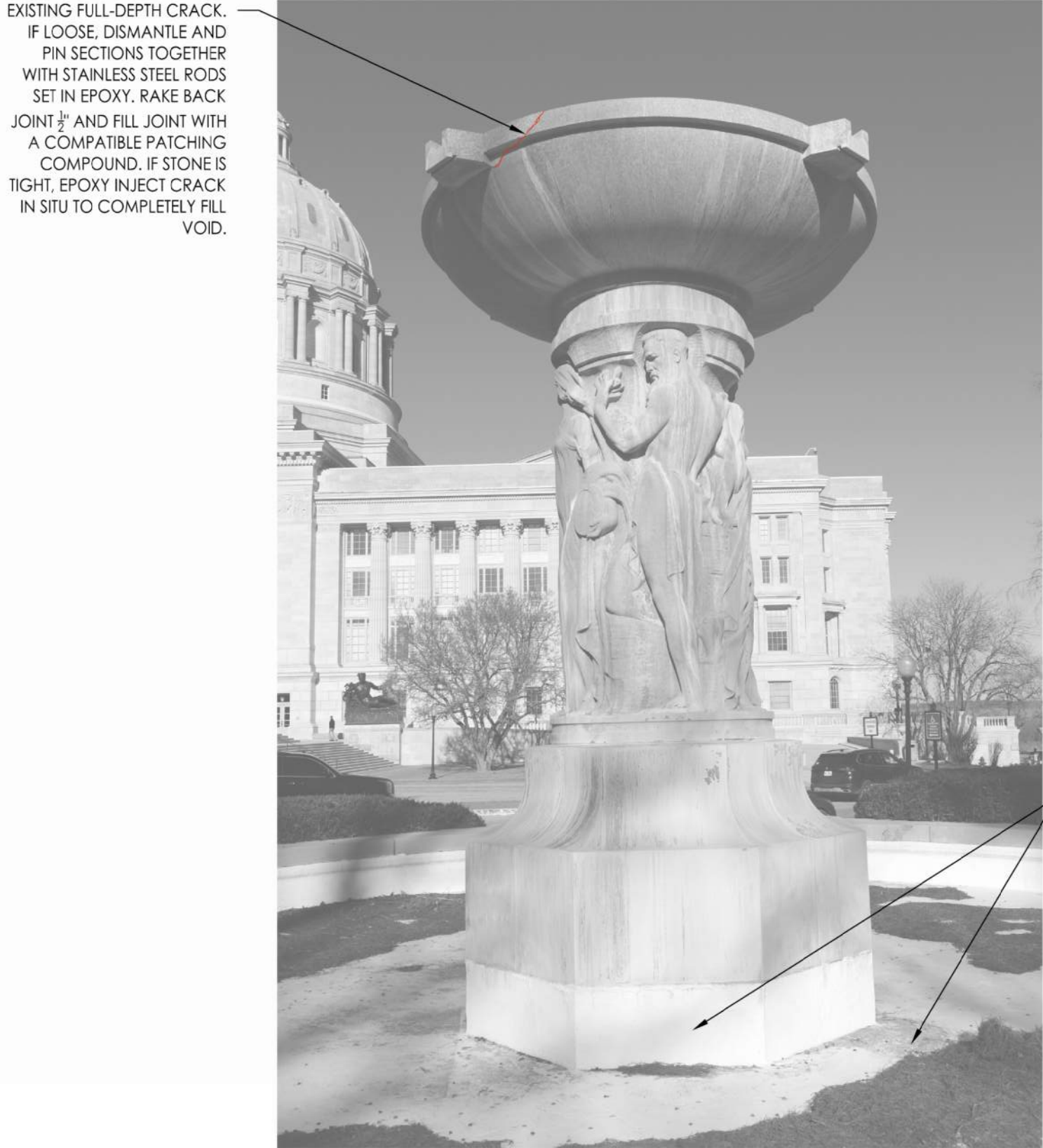
SHEET NUMBER:

A202

15 OF 25 SHEETS

MAY 6, 2024





3 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - SOUTH ELEVATION  
Scale: 1/2" = 1'-0"



4 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - WEST ELEVATION  
Scale: 1/2" = 1'-0"



1 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - NORTH ELEVATION  
Scale: 1/2" = 1'-0"



2 SOUTH FOUNTAINS - FOUNTAIN OF THE SCIENCES (EAST) - EAST ELEVATION  
Scale: 1/2" = 1'-0"

GENERAL NOTES:

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- SPEC 041111 - GRANITE BOWLS - MEDIA BLAST LIMESTONE GRANITE BOWLS TO REMOVE CALCIFIED CRUST.
- SPEC 040110 - GRANITE BOWLS - UTILIZE LIGHT CHEMICAL CLEANING TO REMOVE METALLIC STAINING FROM LIMESTONE.
- SPEC 040120 - REPOINT 100% OF THE FOUNTAIN BASIN WALLS, CAPSTONES, AND CENTER SCULPTURE.

SOUTH FOUNTAINS KEYNOTES:

- (A) SPEC 041111, 071613 - REMOVE EXISTING 2-PART EPOXY COATING FROM THE EXISTING CONCRETE BASIN (FLOOR, INTERIOR WALLS, AND BASE OF SCULPTURE) WITH MEDIA BLASTING, PER SPECIFICATIONS. PREPARE SURFACE FOR NEW COATING, PER NEW COATING MANUFACTURERS RECOMMENDATIONS. REPAIR EXISTING CONCRETE BASIN, AS REQUIRED. AFTER CONCRETE BASIN REPAIRS ARE COMPLETED (SEE NOTE 'B'), APPLY A CEMENTITIOUS WATERPROOF COATING TO THE ENTIRE CONCRETE BASIN.
- (B) SPEC 041111, 071613 - AFTER EXISTING COATING IS REMOVED, APPLY NEW EPOXY BASED CONCRETE PATCH TO RAISE THE EXISTING LOW AREA OF THE CONCRETE BASIN AND SLOPE THE BASIN FLOOR TOWARD THE DRAIN. FEATHER PATCH OUT TO ADJACENT FLOOR TO CREATE A SEAMLESS APPEARANCE.
- (C) SPEC 040120 - REMOVE ENTIRE EXISTING DAMAGED AND DETERIORATED LIMESTONE CAP. INSTALL NEW LIMESTONE UNITS. NEW STONE TO EXACTLY MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING. PROVIDE LIMESTONE SAMPLES FOR APPROVAL.
- (D) SPEC 040120 - EXISTING LIMESTONE CHIP OR SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH WITH COMPATIBLE PATCHING COMPOUND.
- (E) INSTALL NEW CUSTOM-SIZED FRP GRATING AND REQUIRED SUPPORTS OVER EXISTING SUMP PIT. REFER TO MECHANICAL DRAWINGS.
- (F) SPEC 040110 - AFTER STONE IS CLEANED, APPLY STONE CONSOLIDANT.
- (G) SPEC 040120 - INJECT EXISTING CRACK IN LIMESTONE WITH A HYDRAULIC LIME INJECTION, RAKE BACK 1/2", AND INSTALL AND FILL THE JOINTS WITH A COMPATIBLE PATCHING COMPOUND.
- (H) SPEC 040120 - REMOVE EXISTING INCIPENT LIMESTONE SPALL. REMOVE DAMAGED OR DETERIORATED LIMESTONE DOWN TO SOLID MATERIAL. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (I) SPEC 040120 - REMOVE EXISTING FAILING PATCH. PATCH LIMESTONE WITH A COMPATIBLE PATCHING COMPOUND.
- (J) SPEC 040120 - REMOVE EXISTING DAMAGED OR DETERIORATED LIMESTONE VERTICAL PANEL. INSTALL NEW REPLICA LIMESTONE UNIT. NEW STONE PANEL TO MATCH THE EXISTING STONE IN COLOR, SIZE, TEXTURE, AND TOOLING.

STATE OF MISSOURI  
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PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATION

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # 02204-01  
ASSET #  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ARTS  
3101001029 FTN. OF SCIENCES

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 5/6/2024

CAD DWG FILE: AG  
DRAWN BY: AG  
CHECKED BY: AG  
DESIGNED BY: AG

SHEET TITLE:  
SOUTH FOUNTAINS -  
EAST FOUNTAIN  
(SCIENCES) -  
SCULPTURE  
ELEVATIONS

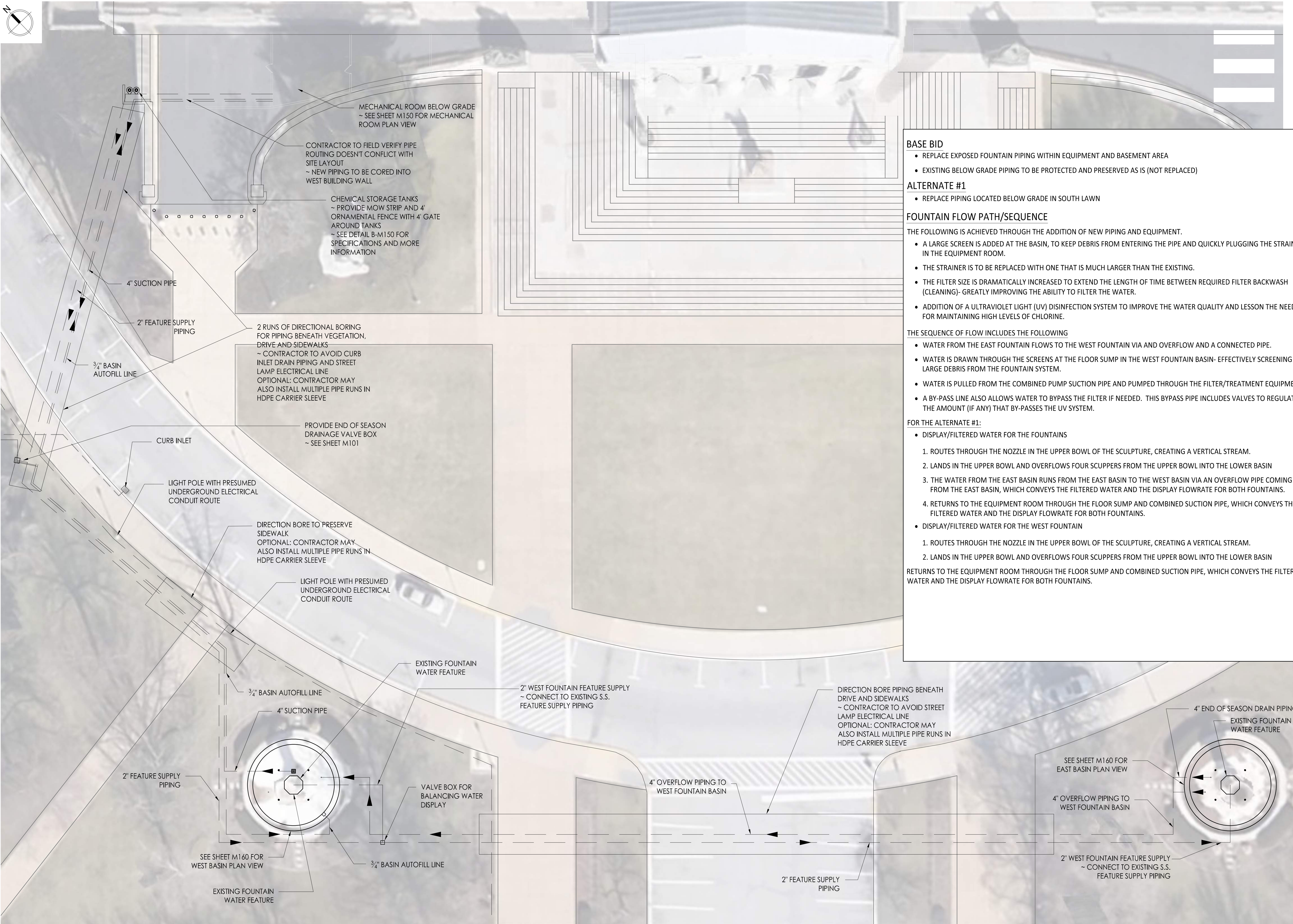
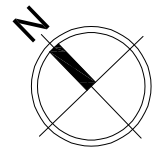
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16 OF 25 SHEETS

MAY 6, 2024

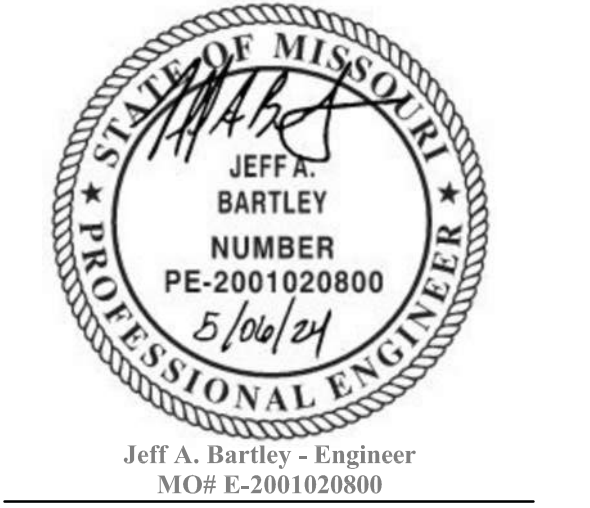




- BASE BID**
- REPLACE EXPOSED FOUNTAIN PIPING WITHIN EQUIPMENT AND BASEMENT AREA
  - EXISTING BELOW GRADE PIPING TO BE PROTECTED AND PRESERVED AS IS (NOT REPLACED)
- ALTERNATE #1**
- REPLACE PIPING LOCATED BELOW GRADE IN SOUTH LAWN
- FOUNTAIN FLOW PATH/SEQUENCE**
- THE FOLLOWING IS ACHIEVED THROUGH THE ADDITION OF NEW PIPING AND EQUIPMENT.
- A LARGE SCREEN IS ADDED AT THE BASIN, TO KEEP DEBRIS FROM ENTERING THE PIPE AND QUICKLY PLUGGING THE STRAINER IN THE EQUIPMENT ROOM.
  - THE STRAINER IS TO BE REPLACED WITH ONE THAT IS MUCH LARGER THAN THE EXISTING.
  - THE FILTER SIZE IS DRAMATICALLY INCREASED TO EXTEND THE LENGTH OF TIME BETWEEN REQUIRED FILTER BACKWASH (CLEANING)- GREATLY IMPROVING THE ABILITY TO FILTER THE WATER.
  - ADDITION OF A ULTRAVIOLET LIGHT (UV) DISINFECTION SYSTEM TO IMPROVE THE WATER QUALITY AND LESSON THE NEED FOR MAINTAINING HIGH LEVELS OF CHLORINE.
- THE SEQUENCE OF FLOW INCLUDES THE FOLLOWING
- WATER FROM THE EAST FOUNTAIN FLOWS TO THE WEST FOUNTAIN VIA AND OVERFLOW AND A CONNECTED PIPE.
  - WATER IS DRAWN THROUGH THE SCREENS AT THE FLOOR SUMP IN THE WEST FOUNTAIN BASIN- EFFECTIVELY SCREENING LARGE DEBRIS FROM THE FOUNTAIN SYSTEM.
  - WATER IS PULLED FROM THE COMBINED PUMP SUCTION PIPE AND PUMPED THROUGH THE FILTER/TREATMENT EQUIPMENT.
  - A BY-PASS LINE ALSO ALLOWS WATER TO BYPASS THE FILTER IF NEEDED. THIS BYPASS PIPE INCLUDES VALVES TO REGULATE THE AMOUNT (IF ANY) THAT BY-PASSES THE UV SYSTEM.
- FOR THE ALTERNATE #1:
- DISPLAY/FILTERED WATER FOR THE FOUNTAINS
1. ROUTES THROUGH THE NOZZLE IN THE UPPER BOWL OF THE SCULPTURE, CREATING A VERTICAL STREAM.
  2. LANDS IN THE UPPER BOWL AND OVERFLOWS FOUR SCUPPERS FROM THE UPPER BOWL INTO THE LOWER BASIN
  3. THE WATER FROM THE EAST BASIN RUNS FROM THE EAST BASIN TO THE WEST BASIN VIA AN OVERFLOW PIPE COMING FROM THE EAST BASIN, WHICH CONVEYS THE FILTERED WATER AND THE DISPLAY FLOWRATE FOR BOTH FOUNTAINS.
  4. RETURNS TO THE EQUIPMENT ROOM THROUGH THE FLOOR SUMP AND COMBINED SUCTION PIPE, WHICH CONVEYS THE FILTERED WATER AND THE DISPLAY FLOWRATE FOR BOTH FOUNTAINS.
- DISPLAY/FILTERED WATER FOR THE WEST FOUNTAIN
1. ROUTES THROUGH THE NOZZLE IN THE UPPER BOWL OF THE SCULPTURE, CREATING A VERTICAL STREAM.
  2. LANDS IN THE UPPER BOWL AND OVERFLOWS FOUR SCUPPERS FROM THE UPPER BOWL INTO THE LOWER BASIN
- RETURNS TO THE EQUIPMENT ROOM THROUGH THE FLOOR SUMP AND COMBINED SUCTION PIPE, WHICH CONVEYS THE FILTERED WATER AND THE DISPLAY FLOWRATE FOR BOTH FOUNTAINS.

**A FOUNTAIN SITE PIPING PLAN VIEW**  
Scale: 1/16" = 1'-0"

STATE OF MISSOURI  
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**waters edge**  
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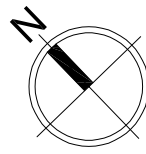
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 5/6/2024

CAD DWG FILE: TB/JB  
DRAWN BY: TB/JB  
CHECKED BY: TB/JB  
DESIGNED BY: TB

SHEET TITLE:  
**FOUNTAIN SITE  
PIPING PLAN**

SHEET NUMBER:  
**M101**  
17 OF 25 SHEETS  
MAY 6, 2024



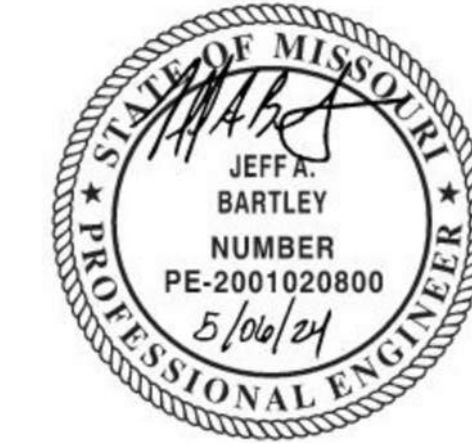


VALVE BOX FOR END OF SEASON DRAIN

~ APPROX. 24" X 24" OR AS REQ'D FOR PIPING AND VALVES, DEPTH AS REQ'D.  
~ PROVIDE LOCKABLE LID  
~ RAIN BIRD MAXI JUMBO, OR SIMILAR  
~ PROVIDE ON 4" GRANULAR FILL BASE

~ 1" DRAIN PIPE FROM EACH FOUNTAIN SYSTEM PIPE  
~ PROVIDE BALL VALVE ON EACH SYSTEM DRAIN PIPE, NORMALLY CLOSED, OPEN FOR DRAINAGE  
~ PROVIDE T-HANDLE VALVE OPERATOR, EXTEND APPROX. 48" ABOVE FINISH GRADE

~ 4" DRAIN HEADER PIPE ROUTED TO AND CONNECTED TO EXISTING CURB INLET



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ISSUE DATE: 5/6/2024

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SHEET TITLE:  
FOUNTAIN SITE  
DRAINAGE PLAN

SHEET NUMBER:

**M102**  
18 OF 25 SHEETS

MAY 6, 2024

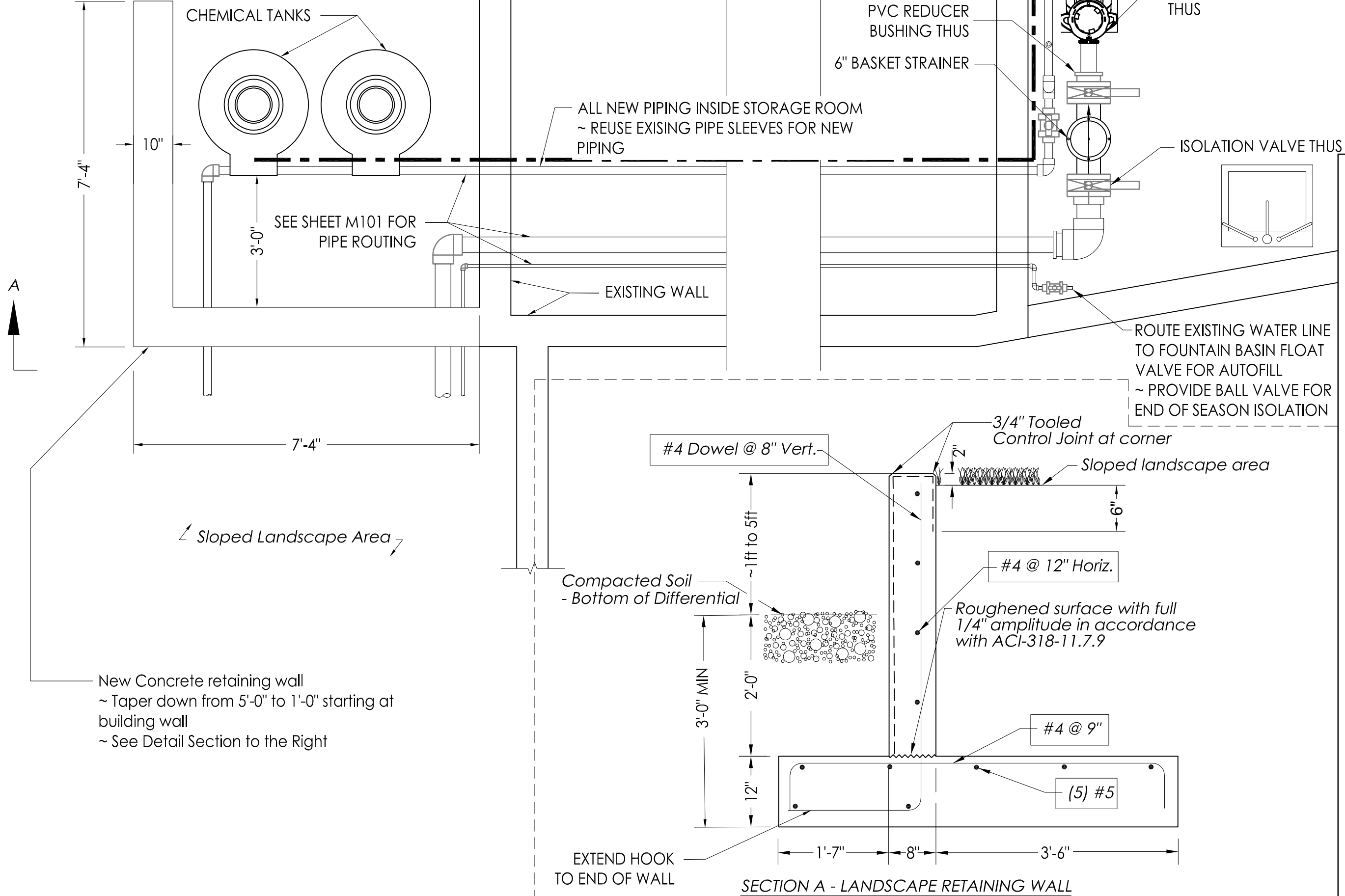


- PIPING NOTES
- PIPE TYPE SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLANS:  
OPTIONAL PIPE SYSTEMS INCLUDE:  
- SCHEDULE 80 PVC  
- RESTRAINED JOINT PVC (3" OR LARGER) AND HDPE, (2" AND SMALLER)  
- HDPE, (ALL SIZES)
  - REFER TO POOL MECHANICAL SHEETS FOR PIPE TYPES BEYOND THE BUILDING
  - PIPE SIZES ARE IDENTIFIED IN INCHES ON THE DRAWINGS
  - PIPE CONNECTION HARDWARE SHALL BE S.S. WITHIN POOL MECHANICAL ROOM
  - CONTRACTOR SHALL PROVIDE AND INSTALL UNIFLANGES/UNIONS AS REQ'D
  - SCH 80 PVC FITTINGS MAY BE SOLVENT WELD OR FLANGED AT CONTRACTOR'S OPTION
  - ALL PIPING AND FITTINGS AT EQUIPMENT (FILTERS, PUMPS, VALVES, ETC.) SHALL BE FLANGED  
~ PVC FLANGES AT FITTINGS SHALL BE MALE TYPE AS SHOWN
  - REFER TO MAXIMUM PIPE SUPPORT SPACING SCHEDULE FOR FREQUENCY AND SPACING OF PIPE SUPPORTS  
~ AT MINIMUM, CONTRACTOR SHALL SUPPORT PIPING AS INDICATED ON SCHEDULE WHICH MAY REQUIRE MORE SUPPORTS THAN INDICATED ON DRAWINGS
  - ALL HARDWARE SHALL BE S.S.
  - PROVIDE AIR RELEASE VALVE AT ALL HIGH LOOPS IN PIPING
  - PROVIDE DRAIN VALVE AT ALL LOW POINTS IN PIPING
  - ALL PIPING THROUGH CONCRETE STRUCTURES SHALL BE CAST-IN-PLACE  
~ NO PIPE SLEEVES OR CORING ALLOWED

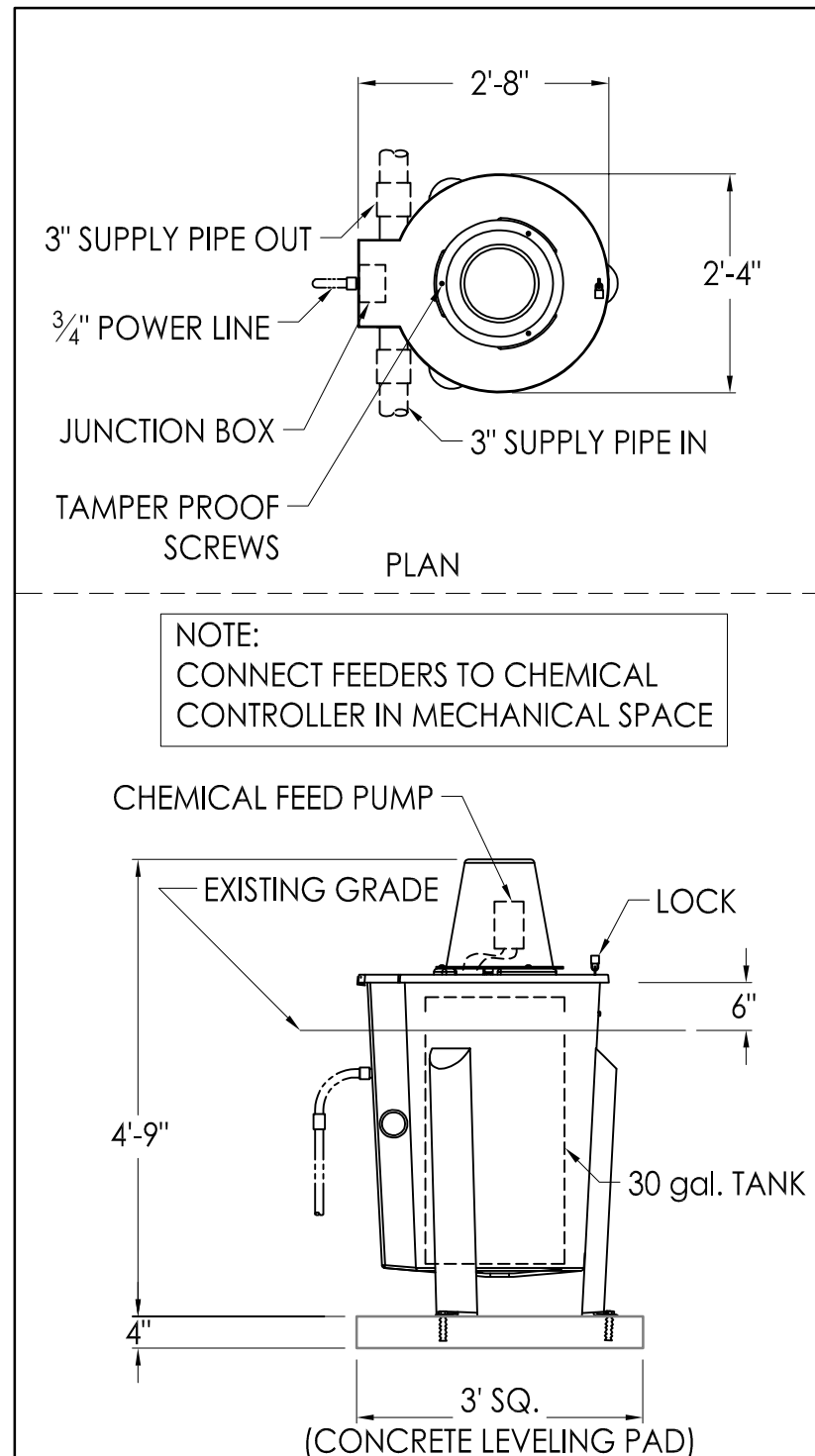
MAXIMUM PIPE SUPPORT SPACING (FEET) \*\*

PIPE SIZE	SCH 80 PVC	DUCTILE IRON	COPPER (L&K)	
1/2"	4.5	-	5.0	
3/4"	4.5	-	5.0	
1"	5.0	-	6.0	
1 1/4"	5.0	-	7.0	
1 1/2"	5.5	-	8.0	
2"	6.0	-	8.0	
2 1/2"	6.0	-	9.0	
3"	7.0	-	10.0	
4"	7.5	*	12.0	
5"	-	-	13.0	
6"	9.0	*	14.0	
8"	9.5	*	16.0	

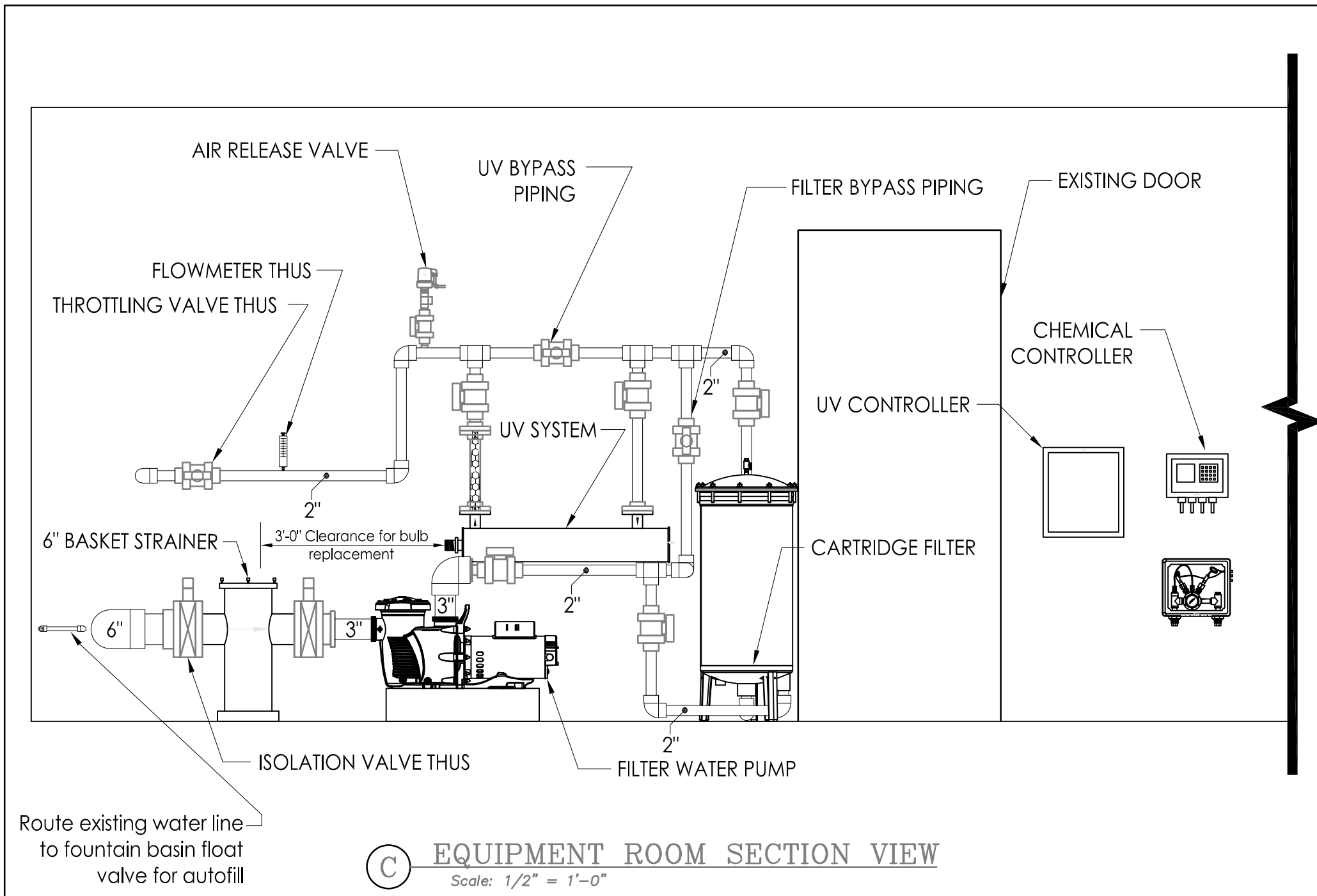
\*Maximum support spacing of 20 Ft.  
Provide a minimum of 1 hanger as close as practical to the joint behind the bell, and at changes of direction and branch connections.  
\*\* Unless shown or noted otherwise



**A EQUIPMENT ROOM PLAN VIEW**  
Scale: 1/2" = 1'-0"



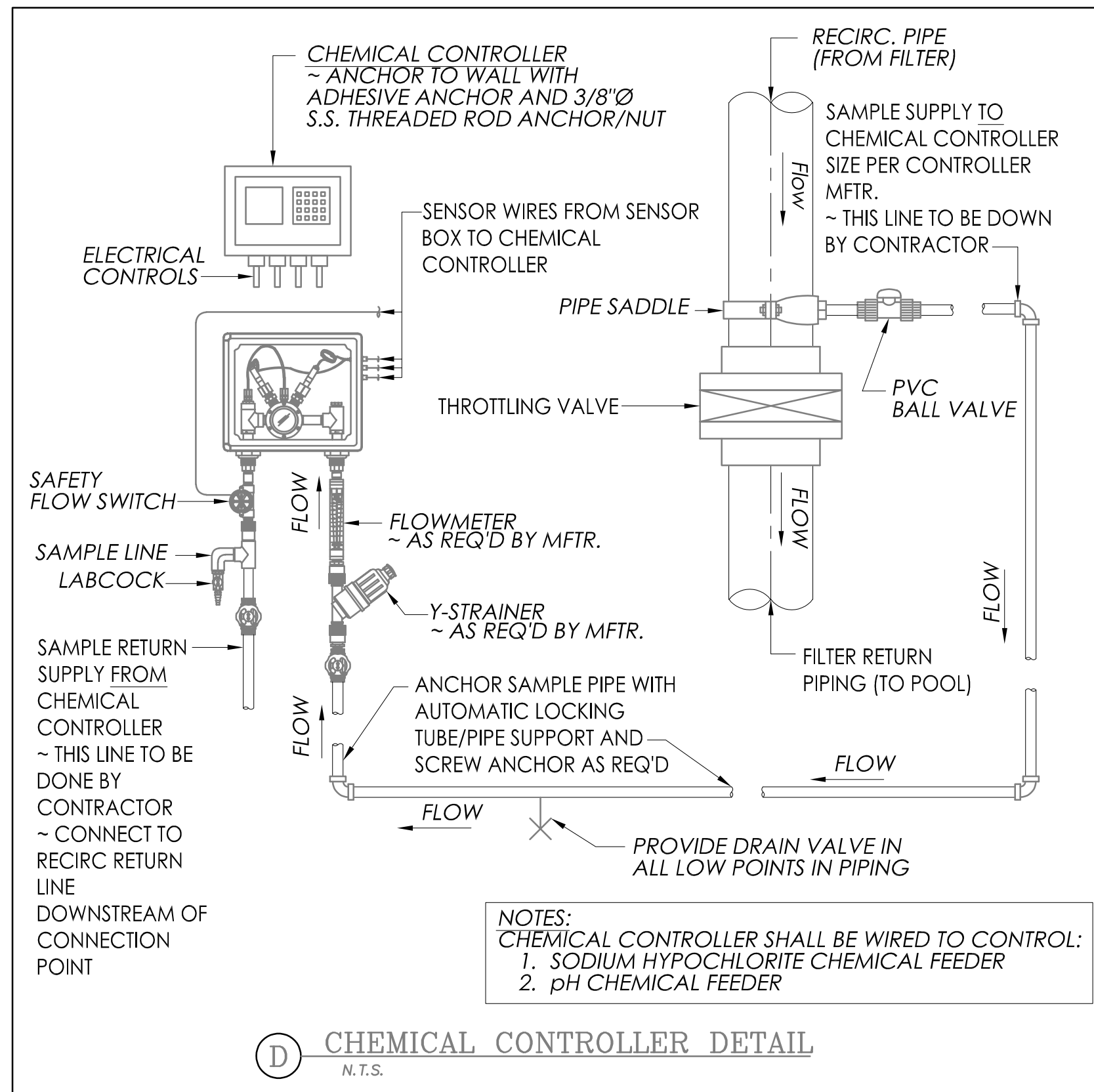
**B CHEMICAL TANK DETAIL**  
Scale: 1/2" = 1'-0"



**C EQUIPMENT ROOM SECTION VIEW**  
Scale: 1/2" = 1'-0"

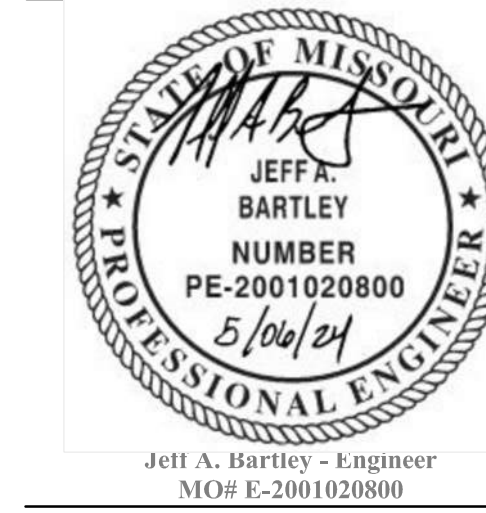
## FOUNTAIN SYSTEM

- A SINGLE PUMPING SYSTEM PROVIDES FLOWRATES TO FILTER/TREAT THE WATER AND ALSO FOR THE WATER DISPLAY (NOZZLES AND SCUPPERS).
- THE FILTER SYSTEM OPERATION CAN BE MANUALLY RUN 24 HOURS PER DAY
- THE WATER DISPLAY CAN BE INTERRUPTED VIA A TIME CLOCK THAT CLOSSES A SOLENOID VALVE TO THE WATER DISPLAY NOZZLES.
- WATER IS PULLED FROM THE COMBINED PUMP SUCTION PIPE AND PUMPED AT A RATE OF 80 GALLONS PER MINUTE (GPM), WHICH
  - EXCEEDS THE EQUIVALENT OF A 3-HOUR TURNOVER PERIOD FOR THE FOUNTAIN BASIN VOLUME.
- PROVIDES THE FLOWRATE NEEDED FOR THE NOZZLE DISPLAY. EACH FOUNTAIN SCULPTURE IS TO RECEIVE 40 GPM TO CREATE A NOZZLE DISPLAY AND A FLOWRATE DEPTH OF APPROXIMATELY 1/2" OF WATER AT THE SCUPPERS.
- THE FULL FLOWRATE IS PUMPED THROUGH A CARTRIDGE FILTER SYSTEM (LARGER SIZE THAN CURRENT FILTER).
- WATER IS ROUTED THROUGH AN ULTRAVIOLET LIGHT (UV) SYSTEM THAT SUPPLEMENTS CHLORINE DISINFECTION AND ALLOWS THE USE OF REDUCED CHLORINE CONCENTRATION.
- A CONTROLLER SAMPLES THE WATER AND MEASURES CHLORINE CONCENTRATION AND PH BALANCE, AND CONTROLS CHLORINE AND ACID FEED INTO THE FOUNTAIN SYSTEM IN AN AUTOMATED.
- THE CHEMICAL FEED STORAGE AN INJECTION POINT IS LOCATED OUTSIDE OF THE BUILDING AND IN LANDSCAPING. THIS KEEPS CHLORINE AND ACID FUMES AWAY FROM THE INTERIOR FINISHED SPACES IN THE BUILDING



**D CHEMICAL CONTROLLER DETAIL**  
N.T.S.

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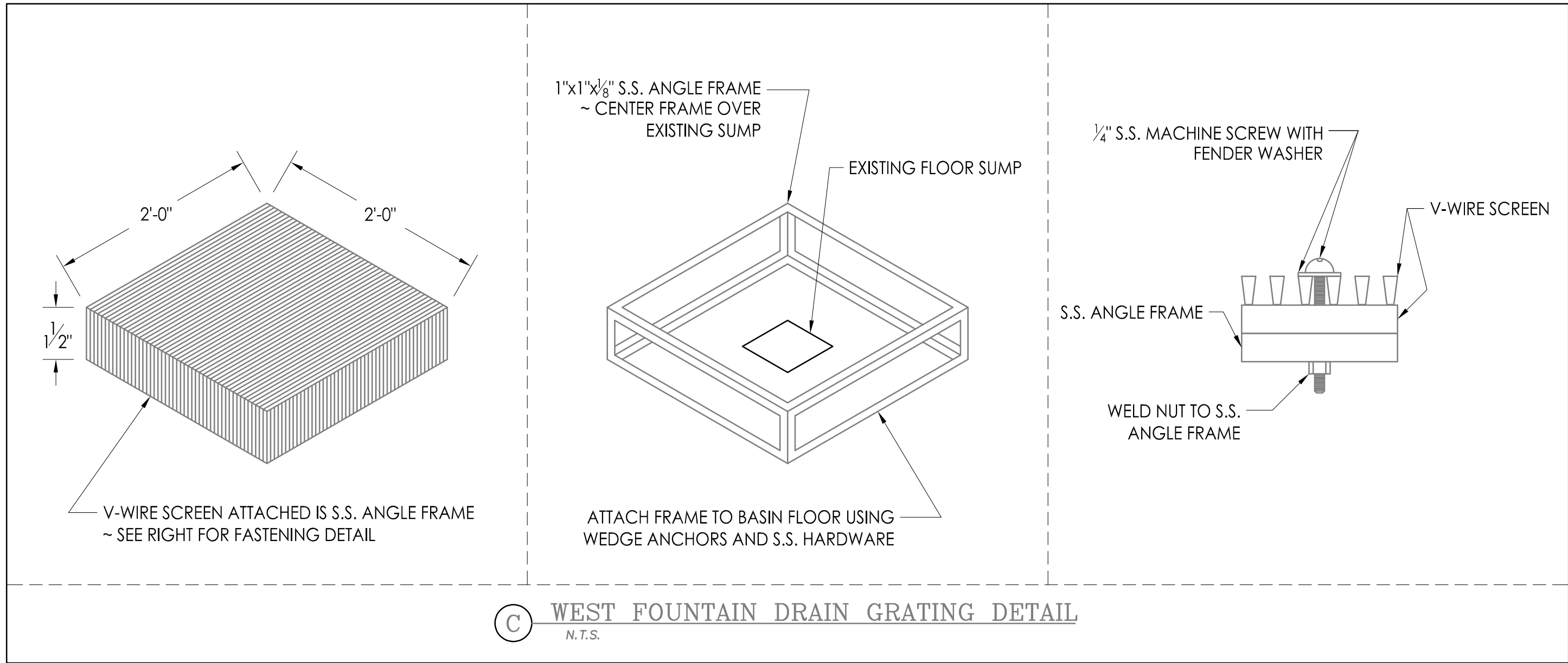
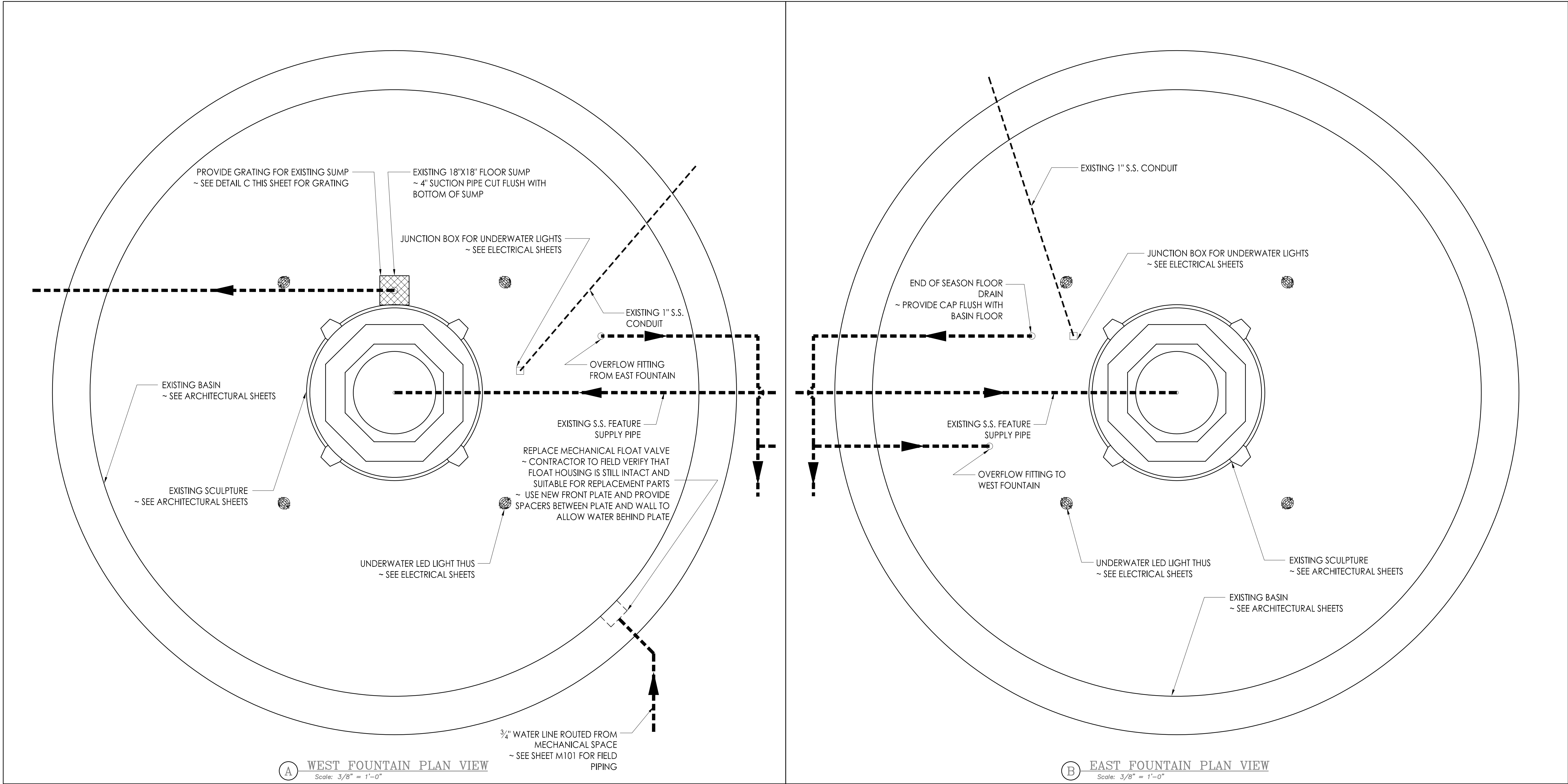
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FOUNTAIN  
EQUIPMENT ROOM  
PLAN

SHEET NUMBER:

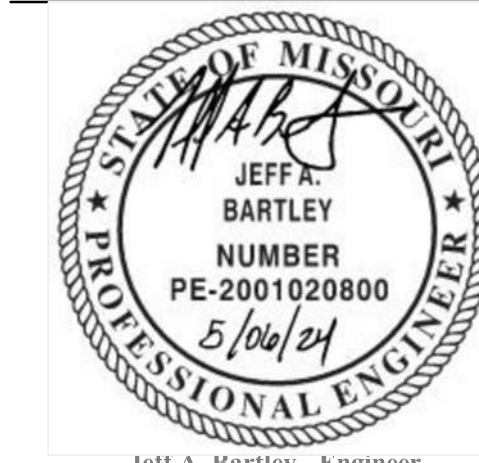
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SHEET TITLE:

FOUNTAIN BASIN  
PLANS

SHEET NUMBER:

M160

20 OF 25 SHEETS

MAY 6, 2024



ELECTRICAL MASTER SYMBOLS LEGEND					
STANDARD MOUNTING HEIGHTS		LIGHTING	WIRING DEVICES & OUTLETS	NURSE CALL	ELECTRICAL ONE-LINE & RISER DIAGRAM
CONTROLS (TOP OF DEVICE) 48" RECEPTACLES 18" RECEPTACLES (EXTERIOR) 24" RECEPTACLES (GARAGES) 24" RECEPTACLES (ABOVE COUNTER) 24" BACKSPLASH/COUNTER 4" ABOVE RECEPTACLES IN EQUIPMENT ROOMS 44" DATA OUTLETS SAME AS ADJACENT DEVICE, UNO TELEVISION OUTLETS REFER TO ARCH DRAWINGS		<div><div></div></div> LIGHT FIXTURE <div><div></div></div> CENTER LINE INDICATES ARCHITECTURAL BASKET ORIENTATION, WHERE APPLICABLE <div><div>○</div><div>→</div></div> ARROW INDICATES AIMING DIRECTION <div><div></div>○</div> SUSPENDED LIGHT FIXTURE  <div><div></div></div> LIGHT FIXTURE CIRCUITED AS NIGHT LIGHT <div><div></div></div> EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE  <div><div></div></div> NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE  A = LIGHT FIXTURE TYPE a = LIGHT FIXTURE CONTROL 15 = CIRCUIT  <div><div>↔↔↔</div></div> LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED  <div><div>○</div>↔<div>□</div></div> EXTERIOR SITE PARKING LOT LIGHT FIXTURE WITH NUMBER OF HEADS INDICATED  <div><div>↖</div><div>↗</div></div> EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED  <div><div></div>↔<div>↔</div></div> EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING / WALL MOUNTED  <div><div></div></div> CEILING FAN	<div><div></div></div> SIMPLEX RECEPTACLE <div><div></div></div> DUPLEX RECEPTACLE <div><div></div></div> GFCI DUPLEX RECEPTACLE <div><div></div></div> DOUBLE DUPLEX RECEPTACLE <div><div></div></div> DOUBLE DUPLEX GFCI RECEPTACLE <div><div></div></div> SPECIAL TYPE RECEPTACLE - NEMA TYPE AS NOTED <div><div></div></div> CONTROLLED RECEPTACLE <div><div></div>*</div> INDICATES RECEPTACLE PROTECTED BY GFCI BREAKER  <div><div></div></div> RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH <div><div></div></div> RECEPTACLE INSTALLED VIA DROP CORD  RECEPTACLE, LETTER DESIGNATION AS FOLLOWS:  EM = EMERGENCY RECEPTACLE H = HORIZONTALLY MOUNTED IG = ISOLATED GROUND USB = USB/DUPLEX WP = WEATHER PROOF COVER WR = WEATHER RESISTANT TR = TAMPER RESISTANT TV = TELEVISION 80" = MOUNTING HEIGHT TO CENTER OF DEVICE  20/1 \$  M = MOTOR RATED  ▽ TELEPHONE OUTLET  ▽ DATA OUTLET  ▽ DATA / TELEPHONE COMBINATION OUTLET  +▽ DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH  ▽ WIRELESS ACCESS POINT  ▽ DATA OUTLET INSTALLED ABOVE COUNTER OR BACKSPLASH  ▲ MULTI-SERVICE FLOOR BOX WITH DATA AND POWER OUTLETS; A = TYPE  ●▲ MULTI-SERVICE POKE THROUGH WITH DATA AND POWER OUTLETS; A = TYPE  Ⓢ JUNCTION BOX (JBOX)  ⊕ SINGLE POINT ELECTRICAL CONNECTION  EPO \$ EMERGENCY POWER OFF BUTTON	<div><div>NCMS</div></div> NURSE CALL MASTER STATION <div><div>NCA</div></div> NURSE CALL ANNUNCIATION PANEL <div><div>SL</div> S</div> NURSE CALL SWITCH PANEL <div><div>W</div> <div>SL</div> H</div> NURSE CALL ROOM STATUS CORRIDOR LIGHT - WALL MOUNT <div><div>C</div> <div>SL</div></div> NURSE CALL ROOM STATUS CORRIDOR LIGHT - CEILING MOUNT <div><div>W</div> <div>N</div> H</div> NURSE CALL CORRIDOR LIGHT - WALL MOUNT <div><div>C</div> <div>N</div></div> NURSE CALL CORRIDOR LIGHT - CEILING MOUNT  <div><div>N</div> 1</div> NURSE CALL PATIENT STATION - SINGLE CALL CORD <div><div>N</div> 2</div> NURSE CALL PATIENT STATION - DOUBLE CALL CORD <div><div>N</div> D</div> NURSE CALL DUTY STATION <div><div>N</div> E</div> NURSE CALL EMERGENCY STATION - PULL CORD <div><div>N</div> PB</div> NURSE CALL EMERGENCY STATION - PUSH BUTTON <div><div>N</div> CB</div> NURSE CALL CODE BLUE STATION	<div><div>##</div></div> FEEDER SYMBOL - REFER TO FEEDER SCHEDULE <div><div>M</div></div> UTILITY METER (AS REQUIRED BY UTILITY) <div><div>SPD</div></div> SURGE PROTECTION DEVICE  <div><div>⏏</div></div> GROUND CONNECTION  <div><div>HP</div></div> MOTOR  <div><div>###A</div><div>3P</div></div> CIRCUIT BREAKER (RATING AS INDICATED)  <div><div>###A</div><div>3P</div><div>###A</div></div> FUSED DISCONNECT SWITCH (RATING AS INDICATED)  <div><div>TX#</div></div> TRANSFORMER (TYPE AND RATINGS AS INDICATED)  <div><div>ATS#</div></div> AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)  <div><div>MG</div></div> GENERATOR (RATINGS AS INDICATED) <div><div>↗</div></div> NON-SEPARATELY DERIVED SOURCE SEPARATELY DERIVED SOURCE  <div><div></div></div> PANELBOARD, MULTIPLE SECTIONS WHERE SHOWN (REFER TO SCHEDULES)
ANNOTATIONS		LIGHTING CONTROL DEVICES	SECURITY	COMMUNICATION	
<div><div></div></div> INDICATES CONNECTION TO EXISTING SYSTEM <div><div></div></div> INDICATES DEMO FROM EXISTING SYSTEM  <div><div>?</div></div> PLAN NOTE REFERENCE  <div><div>1</div><div>A101</div></div> SIM DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER  <div><div>1</div><div>A101</div></div> SIM SECTION REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER  <div><div>FCU</div><div>444</div></div> MECHANICAL EQUIPMENT DESIGNATION		<div><div>\$</div></div> SINGLE POLE SWITCH <div><div>\$</div><sup>3</sup></div> SWITCH, LETTER DESIGNATION AS FOLLOWS:  2 = TWO POLE 3 = THREE-WAY 4 = FOUR-WAY D = DIMMER K = KEYED LV = LOW VOLTAGE M = MOMENTARY CONTACT OS = OCCUPANCY SENSOR VA = VACANCY SENSOR WP = WEATHERPROOF  <div><div></div></div> CEILING MOUNT OCCUPANCY/VACANCY SENSOR  <div><div></div></div> WALL MOUNT OCCUPANCY/VACANCY SENSOR  <div><div>EL</div></div> EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL DEVICE  <div><div>RCR#</div></div> ROOM CONTROLLER - REFER TO SCHEDULE FOR MORE INFORMATION  <div><div>PPR#</div></div> POWER PACK - REFER TO SCHEDULE FOR MORE INFORMATION  REFER TO LIGHTING DEVICE SCHEDULE FOR MORE DEVICE INFORMATION.	<div><div></div></div> FIRE ALARM RELAY <div><div>WS</div></div> WATER FLOW SWITCH <div><div>TS</div></div> VALVE TAMPER SWITCH <div><div>FR</div></div> FAN SHUTDOWN RELAY <div><div>×</div></div> FIRE ALARM STROBE - WALL MOUNTED <div><div>×</div></div> FIRE ALARM STROBE - CEILING MOUNTED <div><div>P</div></div> MANUAL FIRE ALARM PULL STATION <div><div>CB</div></div> FIRE ALARM BELL <div><div>ⓧ</div></div> FIRE HORN AND STROBE - WALL MOUNTED <div><div>ⓧ</div></div> FIRE HORN <div><div>▶S</div></div> FIRE SPEAKER - WALL MOUNTED <div><div>C</div> ▶S</div> FIRE SPEAKER - CEILING MOUNTED <div><div>ⓧ</div></div> FIRE SPEAKER AND STROBE - WALL MOUNTED  <div><div>FACP</div></div> FIRE ALARM CONTROL PANEL  <div><div>FAA</div></div> FIRE ALARM ANNUNCIATOR PANEL  <div><div>CO</div></div> CARBON DIOXIDE DETECTOR <div><div>S</div></div> CEILING SMOKE DETECTOR <div><div>S</div><sup>D</sup></div> DUCT SMOKE DETECTOR <div><div>Ⓢ</div></div> THERMAL DETECTOR (HEAT) <div><div>DH</div></div> ELECTRIC DOOR HOLDER <div><div>F</div> ▼</div> FIREMAN'S TELEPHONE OUTLET		
ABBREVIATIONS		POWER EQUIPMENT			
AD ACCESS DOOR AF AMPERE FRAME SIZE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AHJ AUTHORITY HAVING JURISDICTION AIC AMPERE INTERRUPTING CAPACITY AS AMPERE SWITCH AT AMPERE TRIP SETTING ATS AUTOMATIC TRANSFER SWITCH C CONDUIT CKT CIRCUIT CT CURRENT TRANSFORMER DEMO DEMOLITION EC ELECTRICAL CONTRACTOR EM EMERGENCY FCA FAULT CURRENT AMPS AVAILABLE FLA FULL LOAD AMPS GC GENERAL CONTRACTOR GEC GROUNDING ELECTRODE CONDUCTOR G GROUND MCA MINIMUM CIRCUIT AMPACITY MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER MGB MAIN GROUNDING BUSBAR MLO MAIN LUGS ONLY MOCP MAXIMUM OVERCURRENT PROTECTION N/A NOT APPLICABLE NF NON-FUSED NL NIGHT LIGHT (24 HR ON) P POLE PH/Ø PHASE PNLBD PANELBOARD PROVIDE FURNISH AND INSTALL PT POTENTIAL TRANSFORMER QTY QUANTITY RCPT RECEPTACLE RLA RUNNING LOAD AMPS SCCR SHORT CIRCUIT CURRENT RATING SD SMOKE DETECTOR SF SQUARE FEET SPD SURGE PROTECTION DEVICE ST SHUNT TRIP SWBD SWITCHBOARD SWGR SWITCHGEAR TBB TELECOMMUNICATIONS BONDING BACKBONE TGB TELECOMMUNICATIONS GROUND BUSBAR TMGB TELECOMMUNICATIONS MAIN GROUND BUSBAR UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTIBLE POWER SUPPLY VD VOLTAGE DROP VFD VARIABLE FREQUENCY DRIVE W WIRE		<div><div></div></div> ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNTED)  <div><div></div></div> ELECTRICAL DISTRIBUTION PANELBOARD  <div><div></div></div> TRANSFORMER - THIN OUTLINE INDICATES EQUIPMENT PAD EXTENDING 6" FROM EQUIPMENT WHERE FLOOR MOUNTED  60/3/60/3R DISCONNECT SWITCH - "60/3/60/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING  60/3/60/0/3R COMBINATION DISCONNECT SWITCH - "60/3/60/0/3R" DENOTES AMPERES/POLE/FUSE/STARTER SIZE/NEMA ENCLOSURE RATING, NF = NON-FUSED, CB = CIRCUIT BREAKER, NO VALUE FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING  <div><div>↶</div></div> HOME RUN  <div><div></div></div> CONDUIT <div><div></div>↶</div> CONDUIT TURNING UP <div><div></div>↷</div> CONDUIT TURNING DOWN			
LINETYPE LEGEND		<div><div></div> EXISTING TO REMAIN <div><div></div></div> NEW WORK <div><div>- - - - -</div></div> DEMOLISH</div>			

- ELECTRICAL GENERAL NOTES:**
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DE-RATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.
- D. PROVIDE FIRESTOPPING ON CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOORS. COORDINATE LOCATION AND RATINGS OF WALLS WITH ARCHITECTURAL DRAWINGS.
- E. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.
- F. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.
- G. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.
- H. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.
- I. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.
- J. GROUND FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.8 OF THE LATEST ADOPTED VERSION OF THE NEC.
- K. ARC FAULT INTERRUPTER PROTECTION SHALL BE PROVIDED IN ALL LOCATIONS AS REQUIRED IN SECTION 210.12 OF THE LATEST ADOPTED VERSION OF THE NEC.
- L. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.
- M. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.
- N. E.C. TO PROVIDE NEW WIRING DEVICES AND COVER PLATES FOR ALL WIRING DEVICES LOCATED IN EXISTING WALLS.
- O. E.C. TO PROVIDE BLANK COVER PLATES FOR ALL EXISTING OPEN J-BOXES LOCATED IN EXISTING WALL.
- P. E.C. TO PROVIDE REVISED TYPED PANEL SCHEDULES FOR EXISTING PANELS AFTER WORK IS COMPLETED.
- Q. E.C. TO MAINTAIN ALL EXISTING CIRCUIT CONTINUITIES.
- R. E.C. TO PROVIDE ROUGH-IN BOXES AND CONDUIT FOR THERMOSTATS AS INDICATED.
- S. REFER TO TELECOMMUNICATION DRAWINGS FOR DATA REQUIREMENTS.
- T. ONE WAY 120 VOLT CIRCUIT LENGTH CONDUCTOR SIZING UP TO AND INCLUDING 100 LINEAL FEET SHALL BE #12 AWG. FROM 100 LINEAL FEET TO 150 LINEAL FEET SHALL BE #10 AWG AND FROM 150 LINEAL FEET TO 200 LINEAL FEET SHALL BE #8 AWG.

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OFFICE OF  
ADMINISTRATION  
DIVISION OF FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION

PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATIONS

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # O2204-01  
ASSET #  
3101001040 CAPITOL BUILDING  
3101001028 FTN. OF THE ART  
3101001029 FTN. OF SCIENCES

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 5/6/2024

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: JJP  
CHECKED BY: CJS  
DESIGNED BY: JJP

SHEET TITLE:

ELECTRICAL  
SYMBOLS AND  
GENERAL NOTES

SHEET NUMBER:

E001

21 OF 25 SHEETS

MAY 6, 2024



ELECTRICAL SPECIFICATIONS

GENERAL E REQUIREMENTS

- The contract includes all labor, material, and equipment required for the complete systems as shown and specified. Provide all devices and accessories as necessary for complete and working systems.
- The contractors shall become familiar with the work of all other trades and shall fully coordinate their work prior to ordering equipment or installation of systems.
- The materials, products and equipment described in these specifications or on the drawings establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution. Listing of these manufacturers shall in no way be construed as a device intended to limit the bidders to those specifically listed.
- Reference to any article, device, product, material, fixture, form or type of construction by name, make, or catalog number, shall be interpreted as having established a standard of quality and shall not be construed as limiting competition. Articles, fixtures, etc. of equal quality by manufacturers listed in this specification for the applicable use, shall be acceptable, subject to performance, spatial, structural, and electrical constraints of the project design. The Engineer reserves last opinion as to a product's equality or superiority to that specified.
- Submittals: Provide submittals in PDF format for all equipment and major materials supplied and shall include: manufacturer, model number, materials and miscellaneous data as required to describe the equipment; capacity, voltage, phase, ampacity and other miscellaneous data to quantify the size of the equipment; dimensional drawings showing layout, connection points and detailed layout of components; electrical full load amps and minimum circuit ampacities; and other pertinent information needed for complete review by the engineer. Conspicuously mark on each submittal the exact model, fittings, accessories, and devices to be supplied. Tags for equipment submitted shall match the tags indicated on the design drawings or specifications. Where equipment is noted on the drawings and not scheduled, refer to plan note and sheet number on the submittal. Contractor shall check all submittals to verify that they meet the requirements of the drawings and specifications before forwarding to the architect and engineer. All submittals shall bear the stamp of the contractor to show that they have been reviewed in detail. No work shall be fabricated, and no equipment ordered until the architect and engineer have returned acceptable reviewed submittals.
- Record Drawings: During the progress of the work of this section, this Contractor shall maintain an accurate record of all changes made in the installation of the systems. Upon completion of the work, accurately transfer all record information to clean full-size plotted set of drawings with neatly handwritten or typed notes. Scan the drawings and markups to PDF at 600 dpi.
- Operation and Maintenance (O&M) Manuals: Before project close-out, the contractor shall submit O&M manuals for all equipment provided in this section. The O&M manuals shall include installation, operation, maintenance instructions, diagrams, capacities, spare part numbers, warranties, guarantees, etc. Provide a list of emergency service organizations for each piece of equipment. Keep in a safe place all keys, wrenches and other specialty tools furnished with equipment. Provide three hard copies in binders logically organized, divided and tabbed. Provide all data in electronic PDF format on three flash drives organized and bookmarked similar to the hard copy binders.
- Provide owner training on each piece of equipment as to startup, shutdown, normal maintenance, seasonal changeover and other pertinent information as recommended by the manufacturer. Training sessions shall be recorded and provided to the owner at the end of construction.
- Locations of equipment, piping, and other work are indicated diagrammatically on the drawings. Each contractor shall coordinate exact locations subject to structural conditions, work of other contractors, access requirements, and the approval of the architect and engineer.
- Drawings and specifications indicate minimum construction standards, but should any work indicated be sub-standard, to any ordinances, laws, codes, rules, or regulations bearing on work, the contractor shall execute work in accordance with such without increased cost to the owner, but not until he has referred such variances to the engineer.
- The contractors shall secure and pay for the necessary permits and certificates of inspection for their trade. Keep record of all permits and inspections and submit two copies to the engineer with request for final inspection.
- This contractor shall warrant that the complete systems installed under this contract shall be free of defects in workmanship and materials for a period of one (1) year from the date of substantial completion by the archtowner. If defects occur during the one year guarantee period, this contractor shall repair or replace such defects at no expense to the owner and to the satisfaction of the owner and engineer.
- Provide 3 ½" concrete bases for all floor mounted equipment unless shown or noted otherwise. Provide 6x6 welded wire fabric reinforcing minimum or as required by the structural engineer.
- Adequately protect equipment from damage after delivery to the jobsite. Cover with heavy polyethylene plastic. Elevate equipment when there is danger of water damage. Equipment damaged will be rejected.
- Any scratches to factory finishes shall be touched up using factory supplied paint before final acceptance. If extensive damage to factory finishes has occurred, equipment panels shall be replaced to the satisfaction of the engineer.
- Install all equipment in strict accordance with the manufacturer's recommendations and the shop drawings reviewed by the Engineer. The complete installation shall function as designed and intended with respect to efficiency, capacity, and noise level, etc. Any abnormal noise caused by rattling equipment, conduit or fixtures will not be acceptable.
- Contractor shall perform initial start-up of systems and provide necessary supervision and labor to make the first seasonal change-over of systems. Owner's personnel shall be present during change-over.
- It is the contractor's responsibility to provide materials and trim which fit properly the types of ceiling, wall or floor finishes actually installed. Model numbers in specifications or shown on drawings are not intended to designate the required trim.
- Contractor shall provide all miscellaneous steel, etc., for the proper installation of the systems specified and/or indicated on the plans. Any item connecting to building structure shall be done in a manner accepted by the structural engineer. When bar joists are used for steel construction, items shall be supported from angle iron spanning the top chord of the joists.
- Periodically during construction and prior to Owner acceptance of the building, Contractor shall remove from the premises and dispose of all packing material and debris.

- Before submitting a bid, the Contractor shall visit the actual location of the job and shall fully understand the scope of the work to be performed and the conditions under which it is to be performed. In no case shall additional compensation be granted when existing conditions could reasonably be determined.
- Any work that will affect the building occupants in any way shall be coordinated with that tenant. Such work shall be performed in a satisfactory manner to those affected.
- Locate and mark all known utilities prior to proceeding with work. Proceed with caution since unmarked utilities may exist on site. Should any existing utilities be damaged or disrupted, immediately notify owner and repair to existing conditions.
- The Contractor shall closely coordinate utility downtime with the Owner and Architect giving a minimum fourteen day notice prior to downtime. Downtimes are to be held to a minimum with the Owner being notified as to the extent and duration. Work shall be performed only after approval by the owner.
- The Electrical Contractor shall provide all conduit and wiring and shall connect complete and ready for operation all electrical motors and equipment in the other contracts. The other contractors shall furnish to the Electrical Contractor switches, electrical controls and other accessories required. Installation of motors, equipment, etc., shall be made by the Contractor furnishing the equipment, unless otherwise indicated.
- Unless integral to the equipment supplied or noted otherwise, the Electrical Contractor shall provide disconnect switches, motor starters and variable frequency drives as required by code and/or as shown on the drawings. The contractors responsible for installing the associated equipment shall coordinate with the Electrical Contractor to ensure devices of the proper size are furnished. Further, the other trades shall furnish all electric control items needed to the Electrical Contractor for installation and connection.
- The contractor shall provide openings and chases, cutting and patching, excavation and backfilling and pipe sleeves as needed for proper execution of the work.
- The Contractor shall do all excavation and backfilling necessary to complete work under this contract. Trenches close to walls and columns of the building shall not be excavated without the Architect and/or Structural Engineer's prior consent. As a minimum, backfill in 6" lifts, compacting to a minimum of 90%. The first 12" of fill above any buried item outside the building shall be sand in order to contrast with other fill material. Provide a yellow warning tape at the top of the sand layer.
- Sleeves are required in all penetrations through new exterior walls, masonry walls, floors and fire rated gypsum board walls. Sleeves shall be either Schedule 5 steel pipe, EMT conduit, field fabricated from minimum 16 gauge steel with 2" overlap at the seam, or as required by UL listed fire-stopping system. Sleeves will not be required in existing wall penetrations of masonry construction when such openings are made by "core-drilling." Space between sleeves and pipe in exterior walls shall be sealed using link seals. Space between sleeves and pipe in other wall construction shall be the diameter necessary to provide the clearance required by the UL listed fire stopping method chosen by the contractor.
- All sidewalks, streets, or alley surfaces that are broken in connection with this contract shall be patched to the satisfaction of the owner.
- Provide fire stopping to maintain the fire rating of walls, floors, ceilings or other building component. Fire stopping shall be composed of compatible components, the substrates forming openings and the items penetrating the fire stopping, as demonstrated by the fire stopping manufacturer based on testing and field experience. Firestop system installation must meet requirements of ASTM E-814, UL Standard 1479 or UL Standard 2079 tested assemblies that provide a fire rating equal to that of construction being penetrated.

ELECTRICAL REQUIREMENTS

- The Electrical Contractor shall provide all conduit and wiring and shall connect complete and ready for operation all electrical motors and equipment for other trades as shown on the drawings and as required for complete and operating systems.
- Domestic Water Pumps: The Electrical Contractor shall provide disconnects and motor starter/contractors. The Electrical Contractor shall make all required electrical connections.
- Fire Alarm: The fire alarm scope of work is a delegated design and deferred submittal requiring the Electrical subcontractor stamped engineering and submission to the AHJ for review/approval. It is the responsibility of the electrical and fire alarm subcontractors to provide a fully coordinated, complete, and code compliant system design and installation. The fire alarm supplier/contractor will provide all low voltage control wiring. The EC shall provide all 120 volt power supplies and connections. The EC shall provide all rough-in boxes and conduits for devices under the direct supervision of the Fire Alarm Contractor. Coordinate all requirements with the Fire Alarm Contractor.
- Security System: The security system supplier/contractor will provide all low voltage control wiring. The EC shall provide indicated 120 volt power supplies and connections. The EC shall provide all rough-in boxes and conduits for devices as indicated under the direct supervision of the Security Contractor. Coordinate all requirements with the Security Contractor.
- Intercom System: The intercom system supplier/contractor will provide all low voltage control wiring. The EC shall provide indicated 120 volt power supplies and connections. The EC shall provide all rough-in boxes and conduits for devices as indicated under the direct supervision of the Intercom Contractor. Coordinate all requirements with the Intercom Contractor.
- Security Door Lock System: The Electrical Contractor shall provide disconnect as required and make all rough-ins for controllers. The Electrical Contractor shall make all required 120 volt and low voltage electrical connections.
- The contractor shall pay any and all required utility service fees associated with this project direct to the local utility company. Provide wire as specified and circuiting as shown on the drawings. Power wires and cables shall be code type THWN or THHN and minimum #12 AWG, unless noted otherwise. Power wires and cables #10 AWG and smaller shall be annealed soft copper, solid construction. All power wires and cables #8 AWG and larger shall be annealed soft copper, compressed strand construction.
- Color coding for 120/208 volt systems shall be Black/Blue/Red for phase conductors, White for neutral and green for grounding conductors. Color coding for 277/480 volt systems shall be Brown/Orange/Yellow for phase conductors, Grey/White for neutral and green for grounding conductors.
- Underground service conduits shall be heavy wall Schedule 40 PVC utility conduit with UL Label. Fittings and bends shall be deep socket type schedule 40 utility elbows with 36" radius. All other exterior conduits shall be rigid steel conduit or intermediate metal conduit with threaded couplings and fittings.
- Interior conduit shall be EMT. Provide setscrew couplings and fittings for NEMA 1 installations and compression couplings and fittings for NEMA 3R installations as a minimum. All conduit shall be run parallel or perpendicular to the building surfaces. Conduit shall be concealed in walls. Overhead conduit shall be concealed except in rooms without ceilings.
- All power wires and cables shall be minimum #12 AWG, unless noted otherwise. Wire shall be Code Type THWN or THHN, unless noted otherwise.
- Each 120 volt outlet circuit shall be provided with dedicated neutral conductors. Three phase, four wire homeruns of 120 volt branch circuits will not be accepted.
- Provide conduits and raceways; electrical pull, junction and device boxes as specified and shown on the drawings, as well as those required for a complete and code acceptable installation.
- 120/208 Volt Panelboards: Provide Square D, type NQ, 3 phase, 4-wire panelboards with circuit breakers as scheduled. Circuit breakers shall be bolt-on thermal-magnetic molded case type. Arc Fault breakers shall be provided for all circuits as required in section 210.12 of the NEC.
- 277/480 Volt Panelboards: Provide the following Square D type NF, 3 phase, 4-wire panelboards with circuit breakers as scheduled. Circuit breakers shall be bolt-on thermal magnetic, molded case type.
- Circuit Breaker Distribution Panels: Provide Square D, I-Line, 3 phase, 4-wire panelboards with circuit breakers as scheduled. Provide panels with ground bars, surface mounted cabinets and UL label. Circuit breakers shall be Square D, Type KA and FH thermal-magnetic, molded case circuit breakers.
- Inside each panel door, provide an approved typewritten schedule card showing what each circuit feeds.
- Provide engraved, white on black, laminated plastic plate, mechanically affixed labels on all panels, transformers, safety switches, motor starter, etc. Where panels, etc., occur in finished rooms, label shall be on inside of the door. Labels shall match designation indicated on the plans.
- Provide 20 amp, heavy duty commercial wiring devices as shown on the drawings. Device and coverplate colors shall be as directed by the architect. Coverplates shall be stainless steel OR nylon. Ground fault interrupter receptacles shall be provided in all locations as required in Section 210.8 of the latest adopted version of the NEC. Weather resistant receptacles shall be provided in all locations as required in Section 406.9 of the latest adopted version of the NEC with extra duty weatherproof in-use cover. Tamper resistant receptacles shall be provided at all locations as required by Section 406.11 (dwelling units) and Section 517 (pediatric areas) of the latest adopted version of the NEC.
- Time switches shall be EZ Controls, or approved equal Paragon or Intermatic, maintained contact time switch with 25 amp rated controls. Time clocks shall be based on solid state technology with 10-year memory retention and rechargeable battery carryover.
- Provide heavy-duty safety switches as indicated on the plans and as specified. Provide the appropriate NEMA enclosure rating for the installation location. All safety switches shall be NEMA Type HD and UL listed. Provide fusible devices as shown on the drawings.
- Provide heavy duty magnetic motor starter, and manual motor controllers as indicated on the plans and as specified. Provide the appropriate NEMA enclosure rating for the installation location. All motor starters shall be NEMA rated and UL listed. Controllers shall be furnished within dedicated enclosures, or as combination/disconnect controllers as indicated on the plans. Provide auxiliary contacts and other accessories as needed for proper control as directed by other trades.

- Provide the variable frequency controllers as specified and as indicated on the drawings. Provide AC inverter type adjustable frequency, variable drives or identified as AC drives and as manufactured by Square D, ABB, Eaton/Cutler-Hammer, Magnetek, or Siemens. The drive shall convert the input AC main power to an adjustable frequency and voltage using a Pulse Width Modulated (PWM) technology. Provide the appropriate NEMA enclosure rating for the installation location. Provide other accessories as needed for proper control as directed by other trades. Provide a fully rated bypass for the drive to allow completely dead removal of the drive with the motor operating.

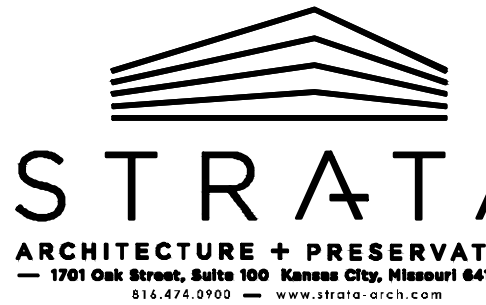
STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



Casey Steiner - Engineer  
MO# PE-2009035182



Missouri State Certificate of Authority: #48-1231104



Missouri State Certificate of Authority: #2009024884



OFFICE OF  
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DIVISION OF FACILITIES  
MANAGEMENT,  
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CONSTRUCTION

PROJECT TITLE  
SOUTH FOUNTAINS  
RESTORATIONS

MISSOURI STATE CAPITOL  
201 W. CAPITOL AVE.  
JEFFERSON CITY, MISSOURI

PROJECT # O2204-01

ASSET #

3101001040 CAPITOL BUILDING

3101001028 FTN. OF THE ART

3101001029 FTN. OF SCIENCES

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 5/6/2024

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: JJP  
CHECKED BY: CJS  
DESIGNED BY: JJP

SHEET TITLE:

ELECTRICAL  
SPECIFICATIONS

SHEET NUMBER:

E002

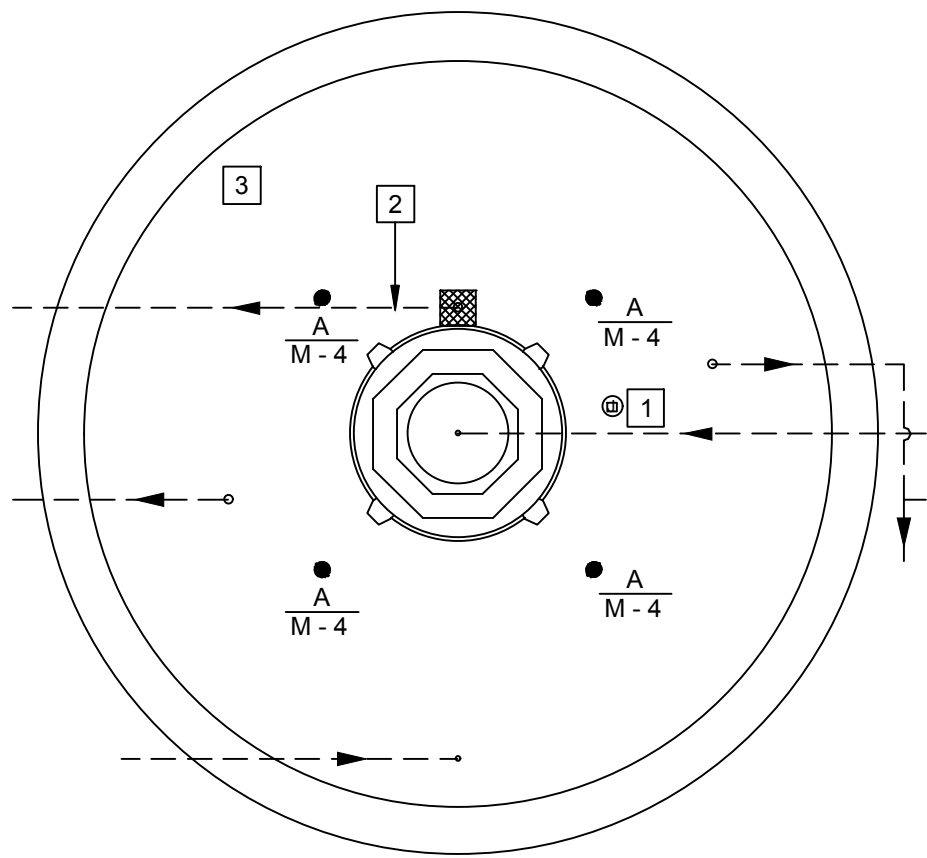
22 OF 25 SHEETS

MAY 6, 2024

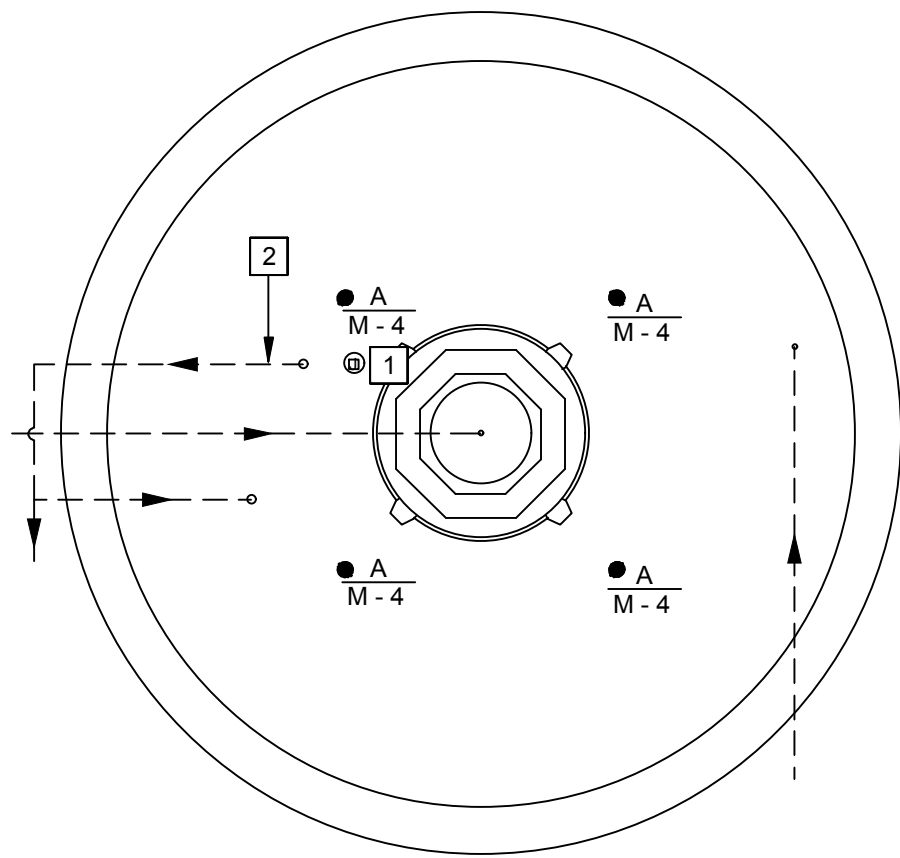


ELECTRICAL PLAN NOTES:

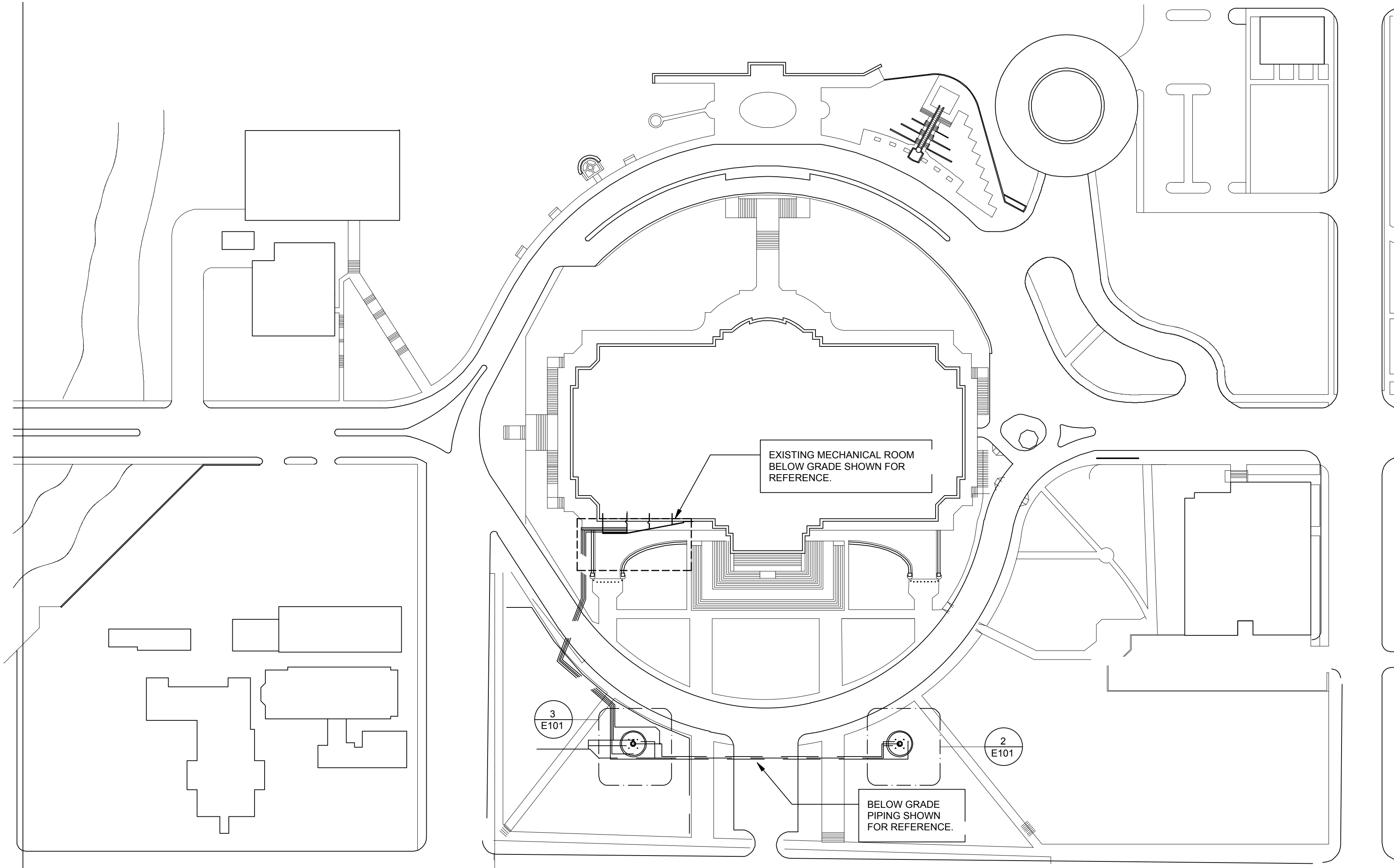
- 1 JUNCTION BOX FOR UNDERWATER LIGHTS. LOCATED ABOVE EXISTING 1" S.S. CONDUIT LINE. RE: MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION. ALL CONDUIT, J-BOXES, AND CONNECTIONS SHALL BE SUBMERGIBLE AND WATER TIGHT.
- 2 BELOW GRADE FOUNTAIN PIPING SHOWN FOR REFERENCE.
- 3 ONE FOR ONE REPLACEMENT OF EXISTING FLOAT SWITCH. RE: FOUNTAIN ENGINEER DRAWINGS FOR NEW FLOAT SWITCH MOUNTING HEIGHT.



3 FOUNTAIN LIGHTING PLAN  
1/8" = 1'-0"



2 FOUNTAIN LIGHTING PLAN  
1/8" = 1'-0"



1 FOUNTAIN SITE PLAN  
NOT TO SCALE

STATE OF MISSOURI  
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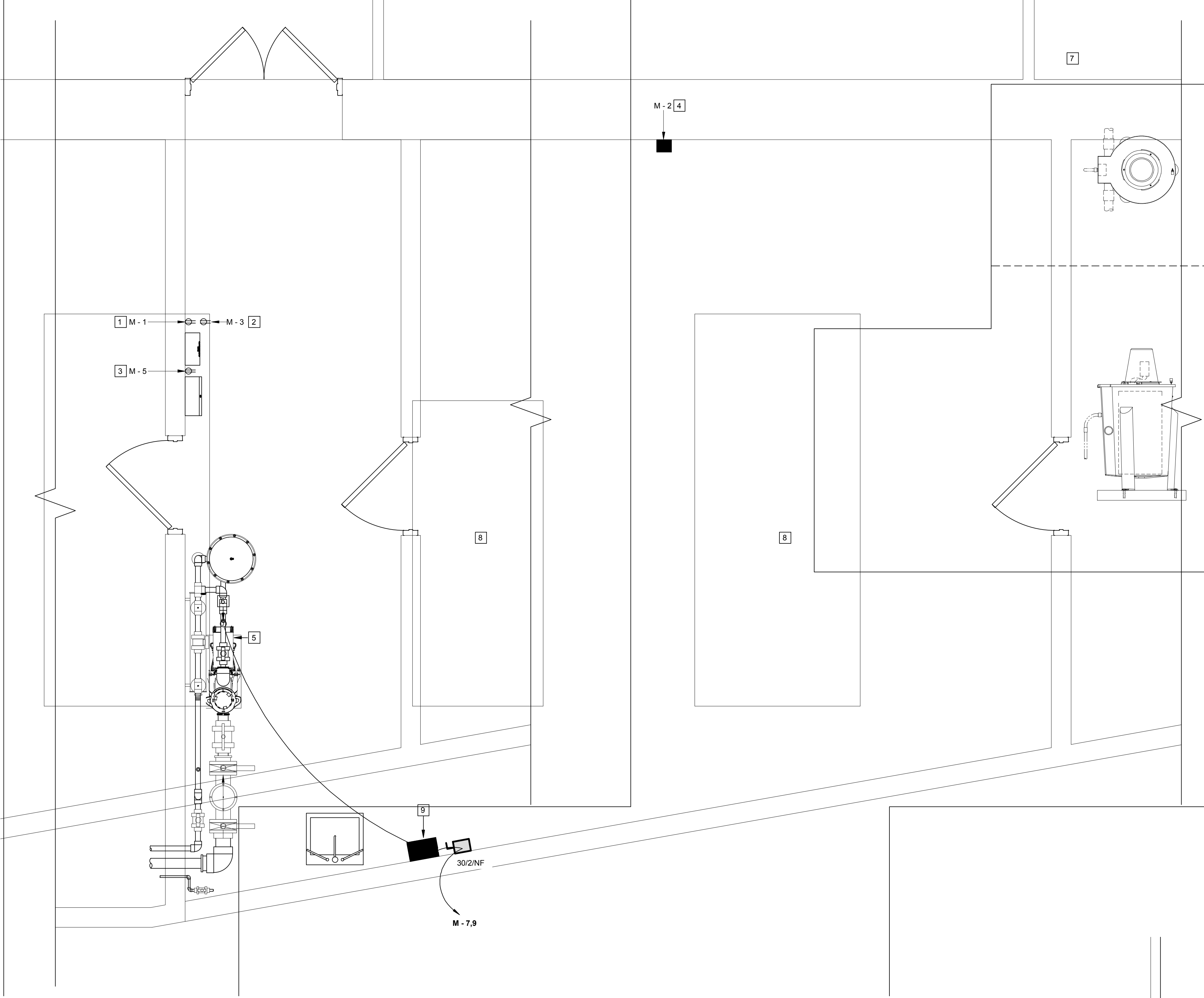
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FOUNTAIN SITE  
ELECTRICAL PLAN

SHEET NUMBER:

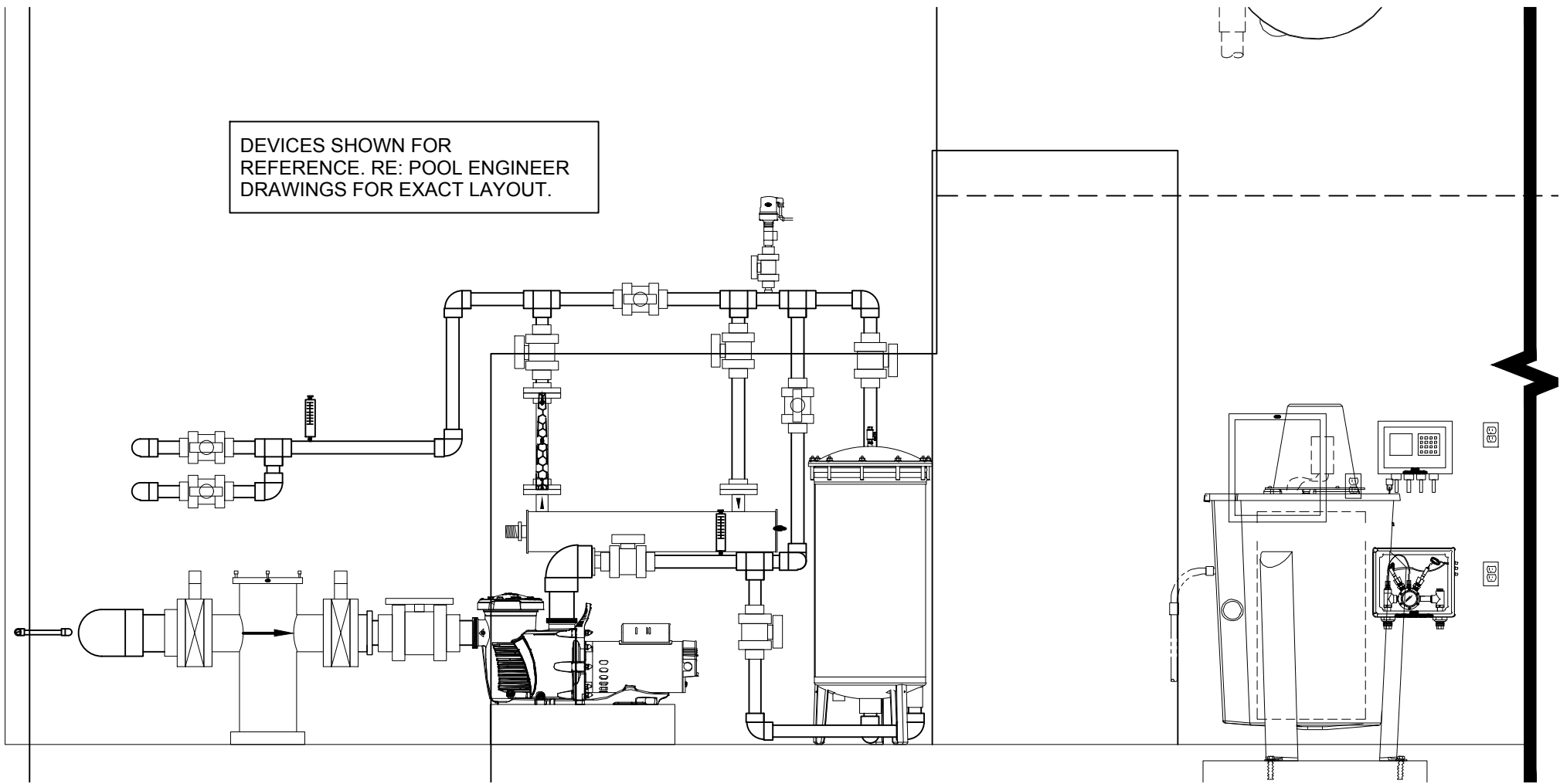
E101

23 OF 25 SHEETS  
MAY 6, 2024





2 EQUIPMENT ROOM PLAN VIEW  
1/2" = 1'-0"



1 EQUIPMENT ROOM SECTION VIEW  
1/2" = 1'-0"

- ELECTRICAL PLAN NOTES:**
- 1 PROVIDE GFCI BREAKER IN PANEL FOR CHEMICAL CONTROLLER. PROVIDE COVER PLATE DENOTING CHEMICAL CONTROLLER. RE: ELEVATION FOR FURTHER INFORMATION.
  - 2 PROVIDE GFCI BREAKER IN PANEL FOR CHEMICAL CONTROLLER SENSOR BOX. PROVIDE COVER PLATE DENOTING CHEMICAL CONTROLLER SENSOR BOX. RE: ELEVATION FOR FURTHER INFORMATION.
  - 3 PROVIDE GFCI BREAKER IN PANEL FOR SENTRY CONTROLLER. PROVIDE COVER PLATE DENOTING SENTRY CONTROLLER. RE: ELEVATION FOR FURTHER INFORMATION.
  - 4 INSTALL NEW TIMECLOCK FOR LIGHTING. RE: DETAILS FOR FURTHER INFORMATION.
  - 5 BOND PUMP. RE: EQUIPOTENTIAL BONDING DETAIL FOR FURTHER INFORMATION.
  - 6 MAKE CONNECTION TO PUMP MOUNTED VFD AND USE THE VFD'S TIMECLOCK FOR CONTROLS.
  - 7 EXISTING PANEL IN ADJACENT ROOM. CONTRACTOR TO CONFIRM EXACT LOCATION AND AVAILABLE CAPACITY PRIOR TO CONSTRUCTION.
  - 8 EXISTING MECHANICAL EQUIPMENT SHOWN FOR REFERENCE.
  - 9 INSTALL BOOST TRANSFORMER LARSON MT-8BT-208V-230V-18.6. BOOST TRANSFORMER SHALL HAVE MINIMUM KVA OF 4.77 KVA, PRIMARY VOLTAGE OF 208V SINGLE PHASE AND SECONDARY VOLTAGE OF 230V SINGLE PHASE.

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ISSUE DATE: 5/6/2024

CAD DWG FILE: \_\_\_\_\_  
DRAWN BY: JJP  
CHECKED BY: CJS  
DESIGNED BY: JJP

SHEET TITLE:  
FOUNTAIN  
EQUIPMENT ROOM  
PLAN - ELECTRICAL

SHEET NUMBER:

E151

24 OF 25 SHEETS

MAY 6, 2024





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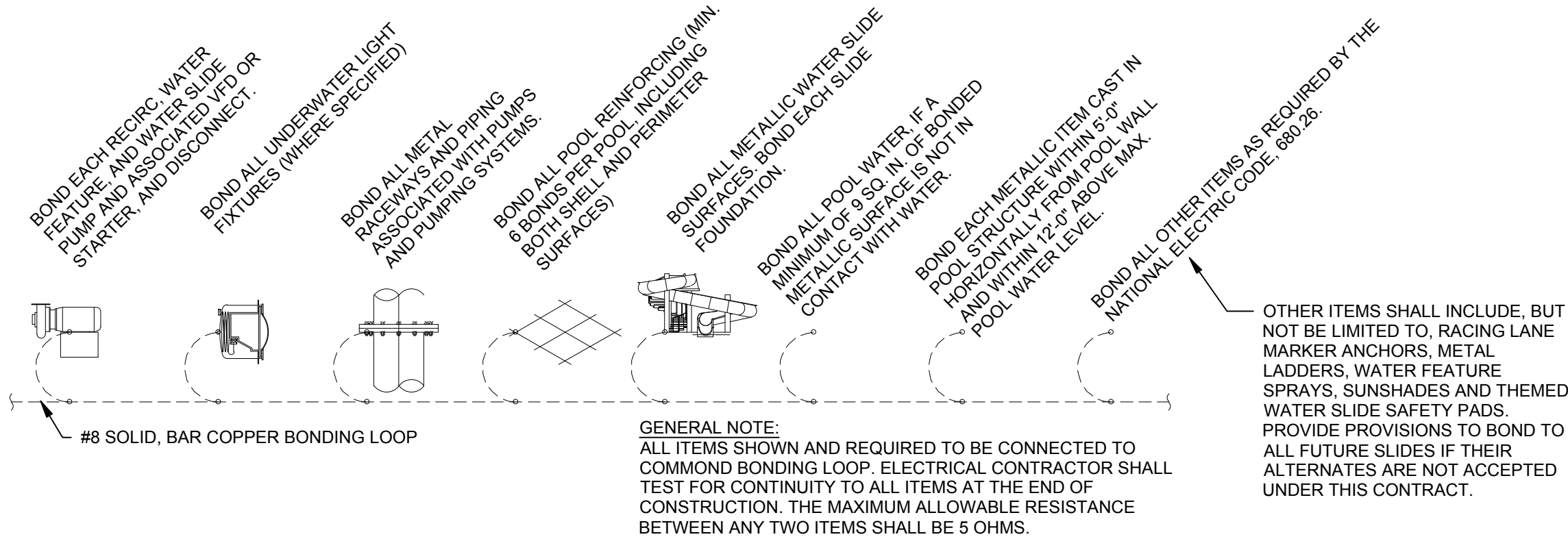
SHEET TITLE:

ELECTRICAL  
SCHEDULES &  
DETAILS

SHEET NUMBER:

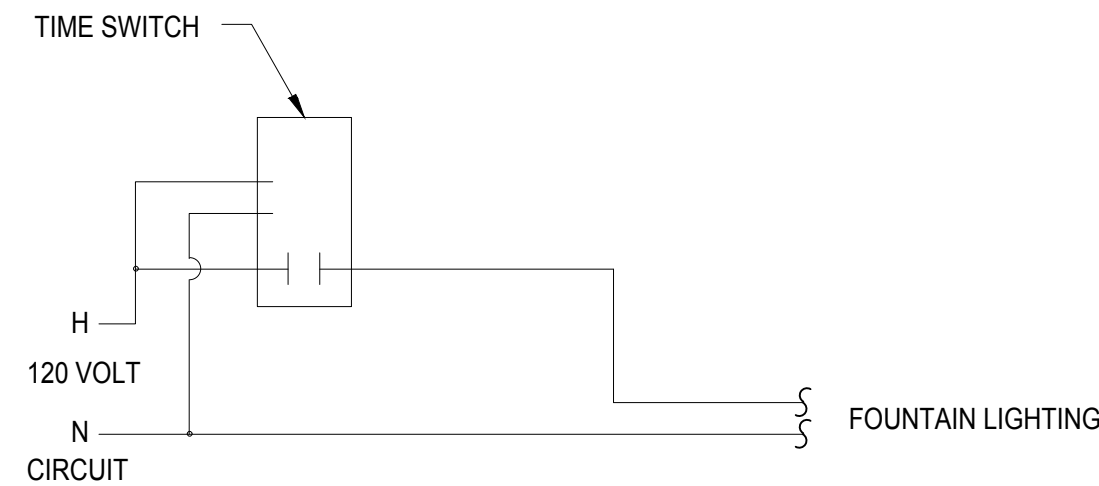
E601

25 OF 25 SHEETS  
MAY 6, 2024



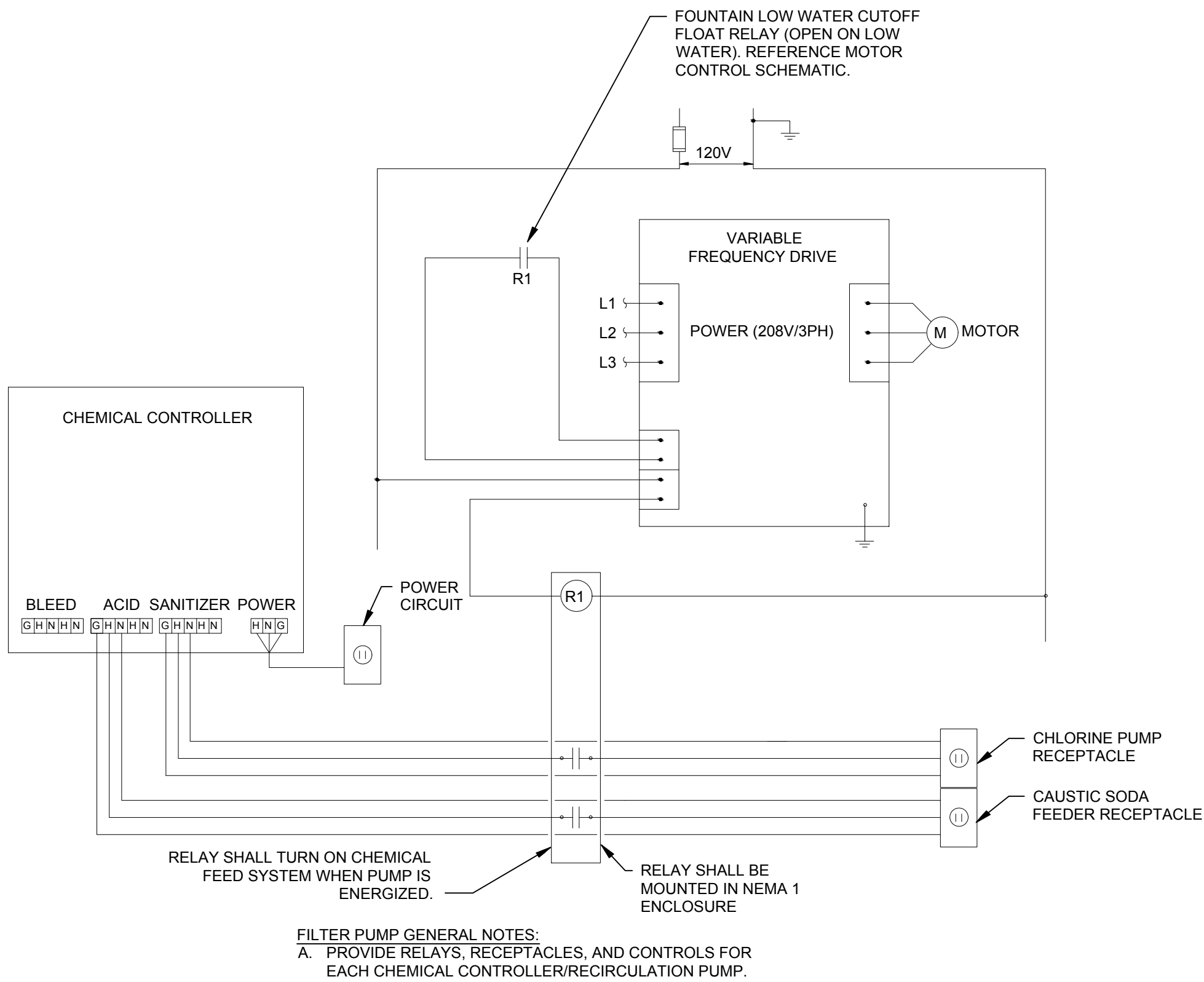
### 3 EQUIPOTENTIAL BONDING DETAIL

NOT TO SCALE



### 2 FOUNTAIN LIGHTING CONTROL SCHEMATIC

NOT TO SCALE



### 1 FILTER PUMP CONTROL SCHEMATIC (VFD-FP)

NOT TO SCALE

### LIGHT FIXTURE SCHEDULE

FIXTURE TAG	MANUFACTURER	MODEL	EQUIVALENT MANUFACTURER	LIGHT SOURCE				DIMMING TYPE	MOUNTING TYPE	VOLTAGE	INPUT WATTS	INPUT VA	DESCRIPTION
				TYPE	LUMENS	COLOR TEMP	CRI						
A	HYDREL / AQUIITY	4415-LED-WHT41K-120-FL-BM-CSLXX-LP	-	LED	609	4100 K	70	NONE	YOKE	120	15	17	UNDER WATER LED
<strong>GENERAL NOTES:</strong>													
A. CONTRACTOR TO VERIFY CORD LENGTH PRIOR TO PURCHASE.													
B. VERIFY FINISH WITH OWNER PRIOR TO ORDERING													
C. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.													
D. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.													
E. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.													
F. MANUFACTURER EQUALS ACCEPTED UPON ENGINEERS APPROVAL.													

### PANELBOARD: M

LOCATION:  
FED FROM:  
MOUNTING: SURFACE

VOLTS/PHASE 208Y/120V, 3Ph, 4W  
MIN AIC RATING: EXISTING  
BUS AMPS: 225 A  
MCB RATING: 225 A

EQUIPMENT GROUND BUS

CKT	LOAD DESCRIPTION	WIRE SIZE	GND SIZE	TYPE	BKR AMP	P	A	B	C	P	BKR AMP	TYPE	GND SIZE	WIRE SIZE	LOAD DESCRIPTION	CKT
1	CHEMICAL CONTROLLER	12	12	GF	20	1	180	180		1	20		12	12	TIME CLOCK	2
3	CHEM SENSOR BOX	12	12	GF	20	1		180	633	1	20		12	12	FOUNTAIN LIGHTING	4
5	UV SENTRY CONTROLLER	12	12	GF	10	1			180							6
7	FOUNTAIN PUMP	12	12		20	2	1600									8
9	--	--	--	--	--	--		1600								10
11																12
13																14
15																16
17																18
19																20
21																22
23																24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
TOTAL LOAD (VA):							1960 VA	2413 VA	180 VA							
TOTAL AMPS:							19 A	22 A	2 A							

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	NEC DEMAND	PANELBOARD NOTES	PANELBOARD TOTALS
EXISTING LOAD					
COOLING		0%	0 VA		
HEATING		0%	0 VA		
LIGHTING	133 VA	125%	167 VA		
RECEPTACLES	540 VA	100%	540 VA		
MOTORS (125% OF LARGEST)	0 VA	Not...	0 VA		
KITCHEN EQUIPMENT					
MISCELLANEOUS	3880 VA	100%	3880 VA		
SUPPLEMENTAL HEAT					
SIGNAGE					
TOTAL CONNECTED LOAD: 4553 VA					
TOTAL NEC DEMAND: 4587 VA					
TOTAL CONNECTED CURRENT: 13 A					
TOTAL NEC DEMAND CURRENT: 13 A					