



WICHITA, KANSAS

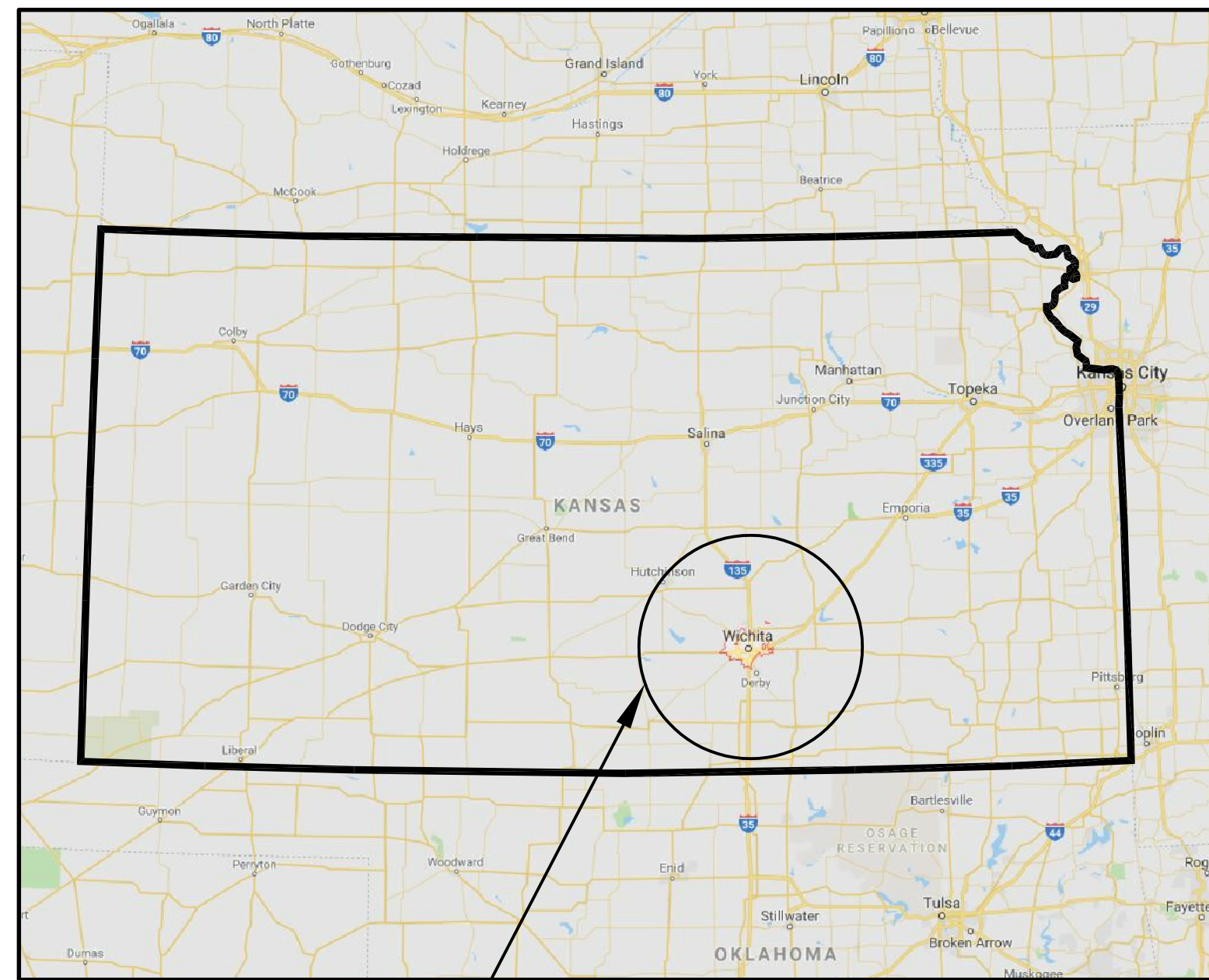
Spray Ground

EVERGREEN PARK

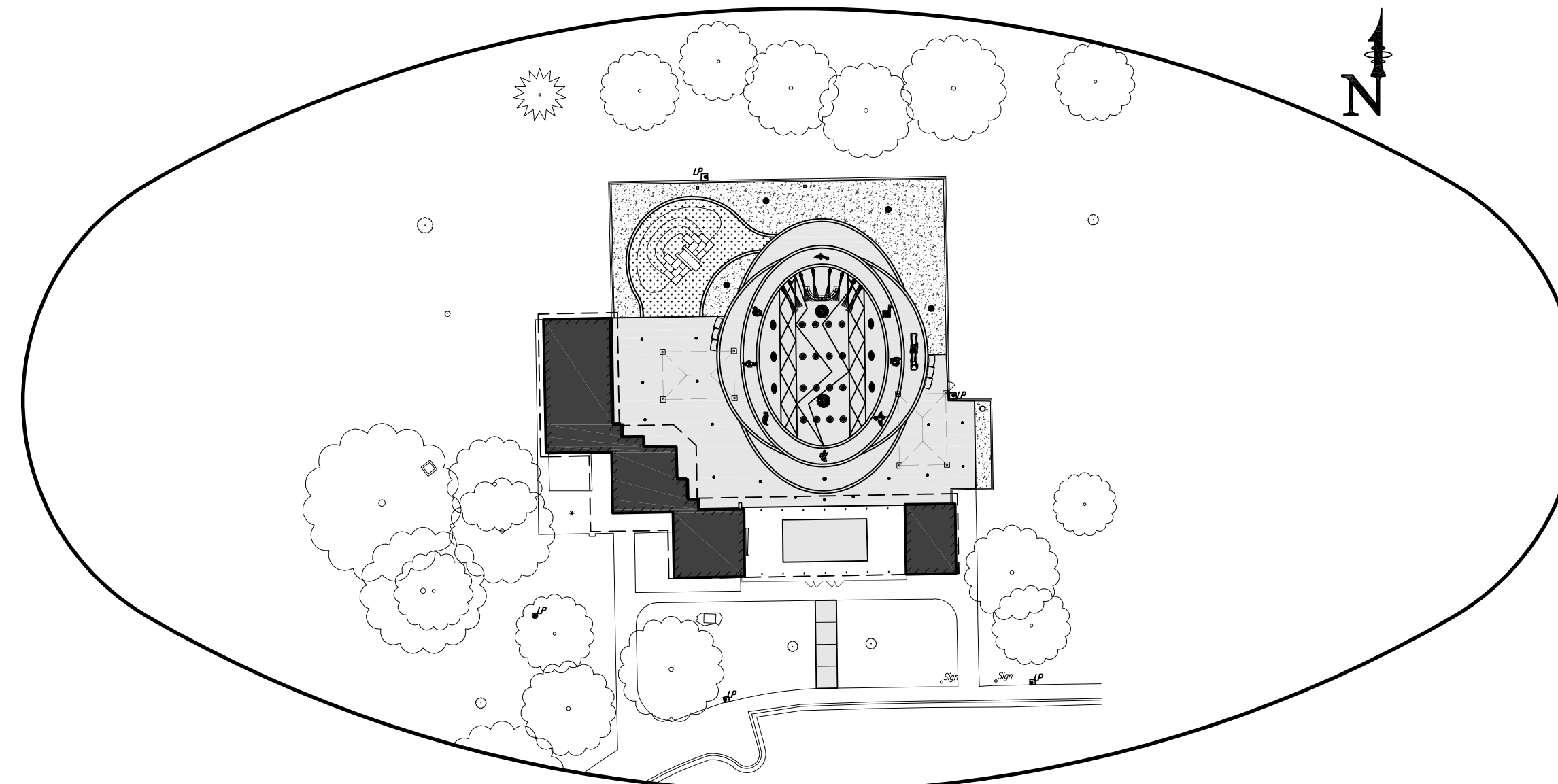
2020



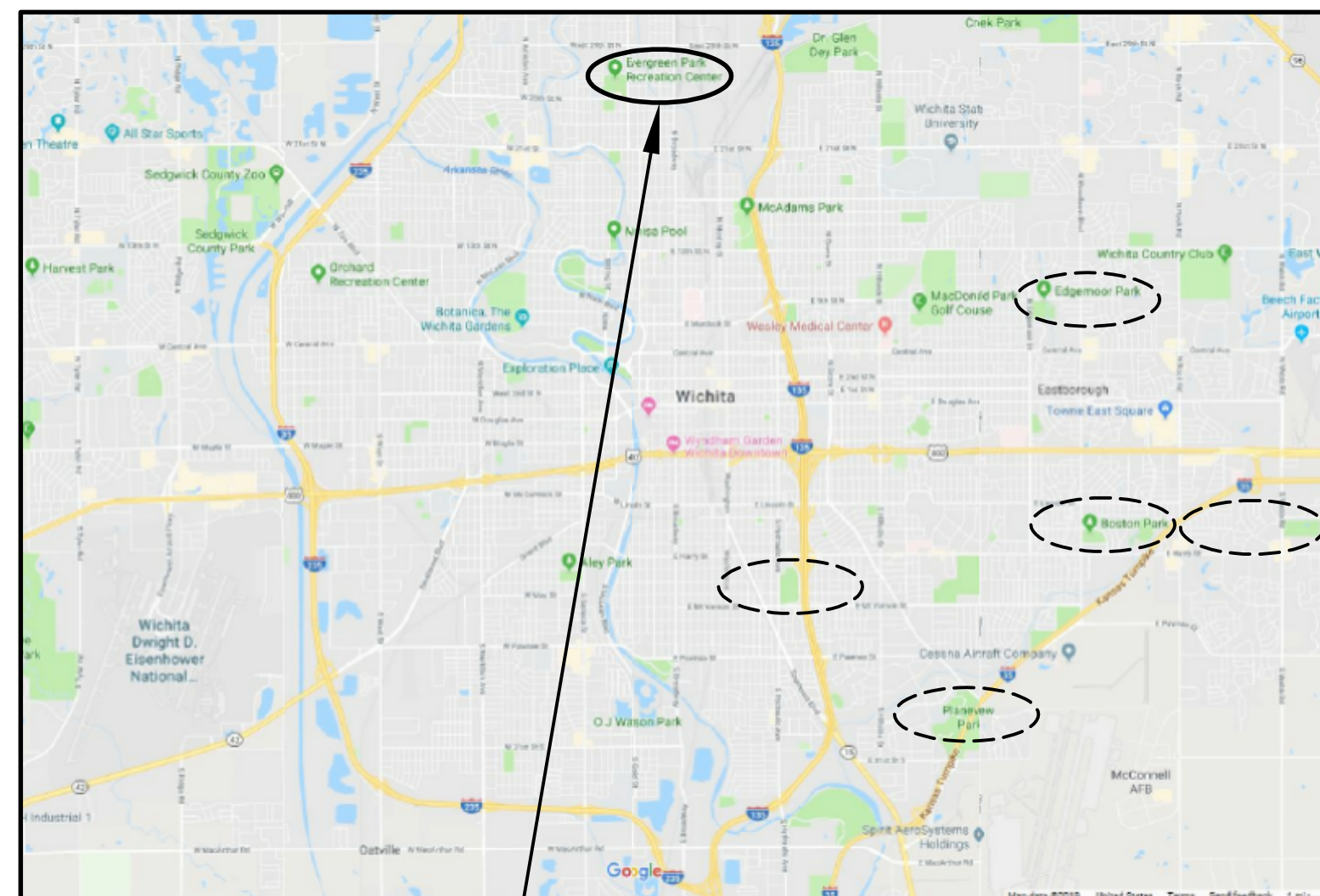
CITY OF WICHITA
 Project Number 482-11016
 OCA Number 796066



PROJECT AREA



SPRAY GROUND LAYOUT

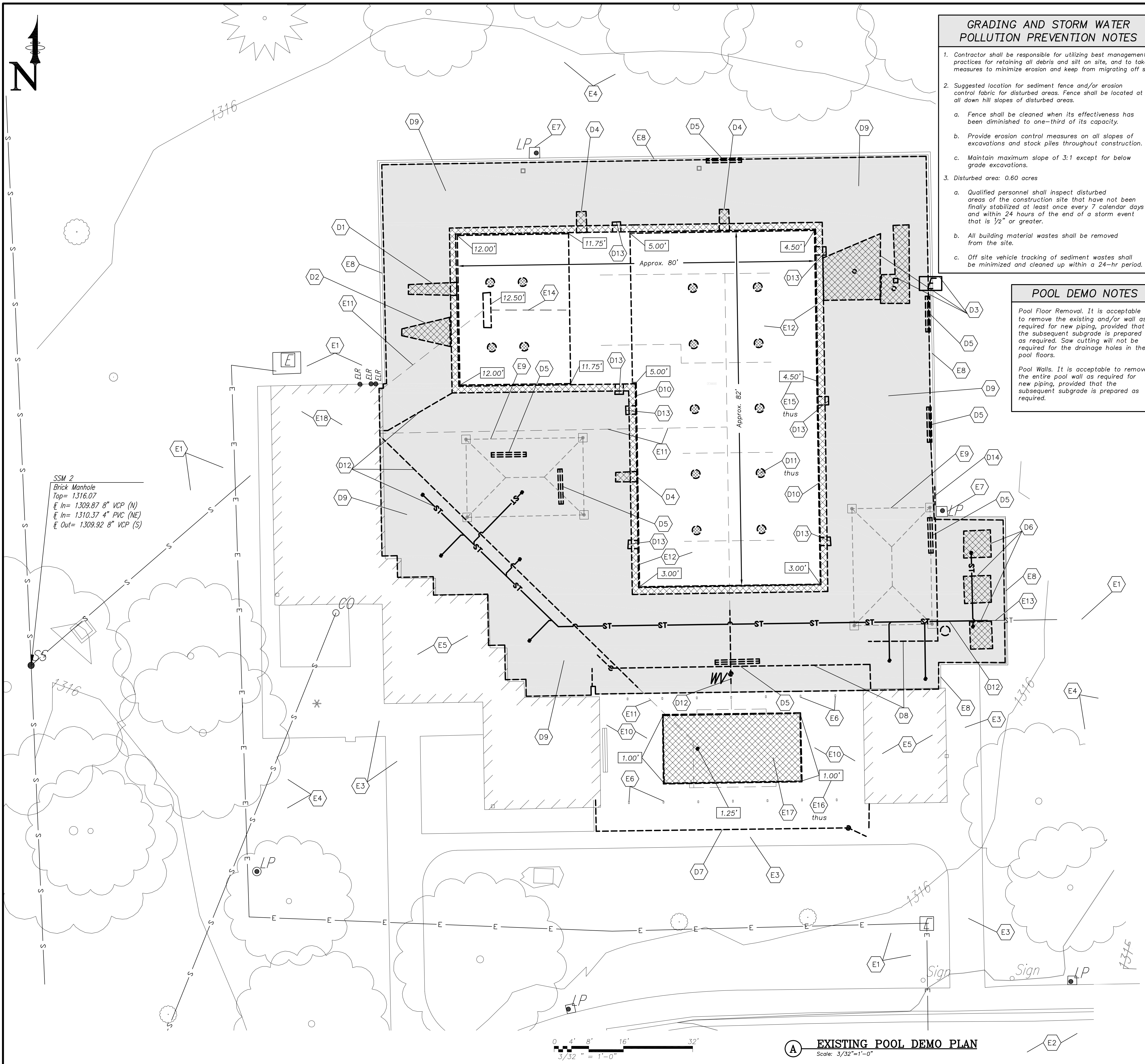


PROJECT LOCATION
 2700 North Woodland Avenue
 Wichita, KS 67204

SHEET INDEX

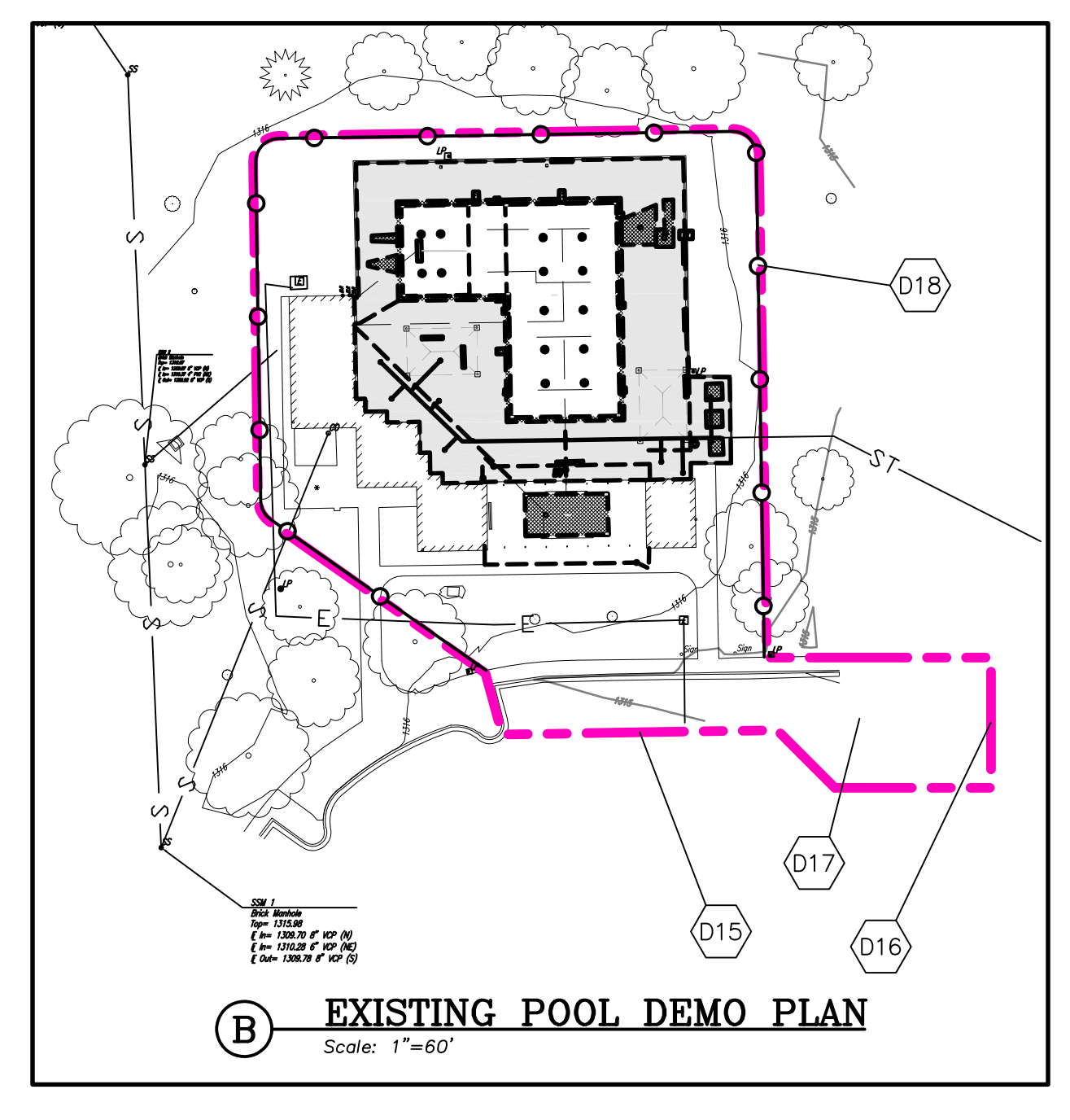
- COVER SHEET
- SP-D1 EXISTING POOL DEMO PLAN
- SV-01 EXISTING CONDITIONS
- L100 MATERIALS PLAN
- L200 LAYOUT PLAN
- L400 PLANTING PLAN
- L500 SITE DETAILS
- L501 SITE DETAILS
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- SP-E2 ELECTRICAL DETAILS
- SP-E3 ELECTRICAL DETAILS AND RISER DIAGRAM

AQUATICS Waters Edge Aquatic Design 11205 West 79th Street Lenexa, KS 66214 Tel (913) 438-4338 www.WeDesignPools.com	
SITE-CIVIL PEC - Professional Engineering Consultants 303 South Topeka Wichita, KS 67202 Tel (316) 262-2691 www.PEC1.com	
LANDSCAPE ARCHITECT Landworks Studio 102 South Cherry Street, 2nd Floor Olathe, KS 66061 Tel (913) 760-6707 www.LandworksStudio.com	
BUILDING ARCHITECT Urban Prairie Architectural Collaborative, P.C. 4523 Mercier Kansas City, MO 64111 Tel (816) 304-7416 www.UrbanPrairieKC.com	
MECHANICAL-ELECTRICAL-PLUMBING Hoss & Brown Engineers, Inc. 11205 West 79th Street Lenexa, KS 66214 Tel (913) 362-9090 www.H-BE.com	



POOL AREA KEY NOTES – EXISTING DEMOLITION

- Contractor shall verify all existing dimensions and report any discrepancies
- EXISTING ITEMS**
- E1 Existing utilities shall be protected
 - E2 Existing parking lot shall be protected
 - E3 Existing sidewalk shall be protected
 - E4 Existing trees shall be protected
 - E5 Existing bathhouse shall be protected
 - E6 Existing roof structure shall be protected
 - E7 Existing light pole shall be protected
 - E8 Existing 6'-0" tall chain link fence and 12" wide concrete strip of pool deck shall be protected
 - E9 Existing sunshade shall be protected
 - E10 Existing pool deck shall be protected
 - E11 Existing pool piping may remain if it does not interfere with new construction ~ Exposed open ends shall be capped
 - E12 Existing pool floor & walls shall be protected ~ See Detail A-SP-PM2
 - E13 Existing deck drain pipe shall be protected
 - E14 Existing underdrain pipe shall be protected
 - E15 Existing approximate pool water depths (4" freeboard)
 - E16 Existing approximate wading pool water depths (7" freeboard)
 - E17 Existing wading pool structure shall be filled with granular fill and 4" thick pool deck
 - E18 Existing Filter Area ~ See Sheet SP-F1
- DEMOLITION ITEMS**
- D1 Remove existing 1 meter diving stand, protect and deliver to Owner
 - D2 Remove existing 3 meter diving stand, protect and deliver to Owner
 - D3 Remove existing water slide, pump, and electrical
 - D4 Remove existing lifeguard chair
 - D5 Remove existing bench, protect and deliver to Owner
 - D6 Remove existing table, protect and deliver to Owner
 - D7 Remove existing 6'-0" tall chain link fence to allow for new entrance fence ~ Fence posts shall be removed to below deck and and fill holes with non-shrink grout
 - D8 Remove existing 4'-0" tall chain link fence
 - D9 Remove existing pool deck ~ See Detail A-SP-PM2
 - D10 Remove existing portions of pool wall ~ See Detail A-SP-PM2
 - D11 Remove existing portions of pool floor to allow for drainage ~ See Detail A-SP-PM2
 - D12 Remove existing piping as required for new construction ~ Exposed open ends shall be capped
 - D13 Remove existing grab rails, protect and deliver to Owner
 - D14 Remove existing fence as required for new gate
 - D15 Construction limits
 - D16 Construction access
 - D17 Construction staging
 - D18 Suggested silt fence location



waters edge
 AQUATIC DESIGN

11205 W. 79th St.
 Lenexa, KS 66214
 L 913.438.4338
 www.WeDesignPools.com

Kansas STATE CERTIFICATE OF AUTHORITY #E-990

PEC

landworks
 STUDIO

ARCHITECTURAL
URBAN PRAIRIE
 COLLABORATIVE, P.C.

H&B
 HOSS & BROWN ENGINEERS

WICHITA, KANSAS
 Spray Ground
 EVERGREEN PARK

WICHITA

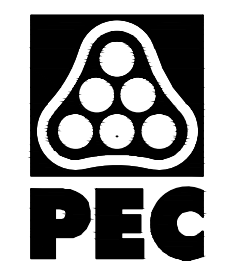
Seal: **JEFF A. BARTLEY**
 LICENSED PROFESSIONAL ENGINEER
 LICENSE #15116

Jeff Bartley-ENGINEER
 LICENSE #15116
 Date: 02-21-20 Job #: 18-512
 Drawn: SRS Checked: JAB
 Issue: CONSTRUCTION DOCUMENTS

EXISTING POOL DEMO PLAN

SP-D1

Water's Edge Aquatic Design
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WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Seal:

Name-ENGINEER
LICENSE #####

Date: 10-16-19 Job #: 18-512

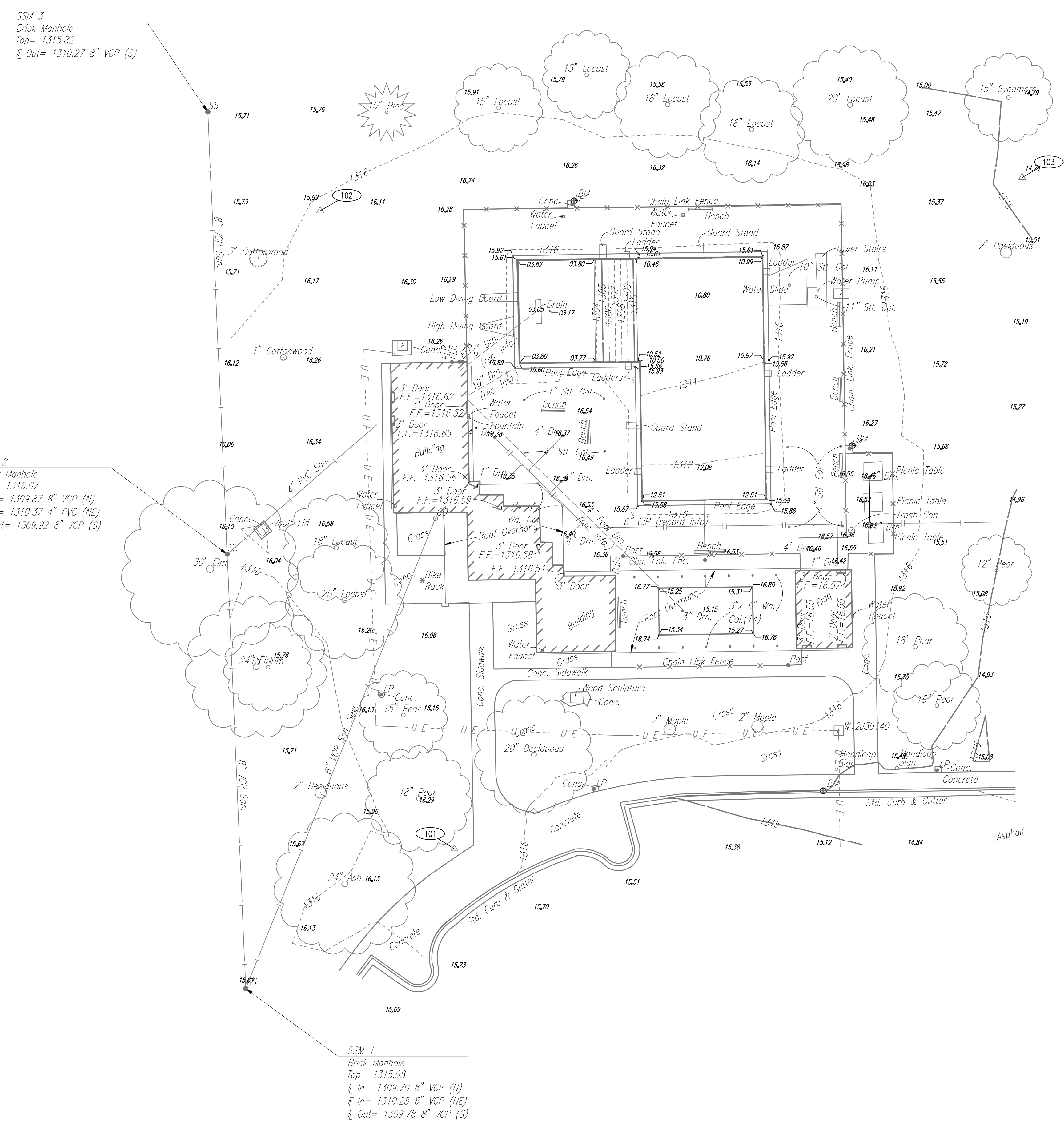
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Issue: PERMIT REVIEW

**EXISTING
CONDITIONS**

SV-01

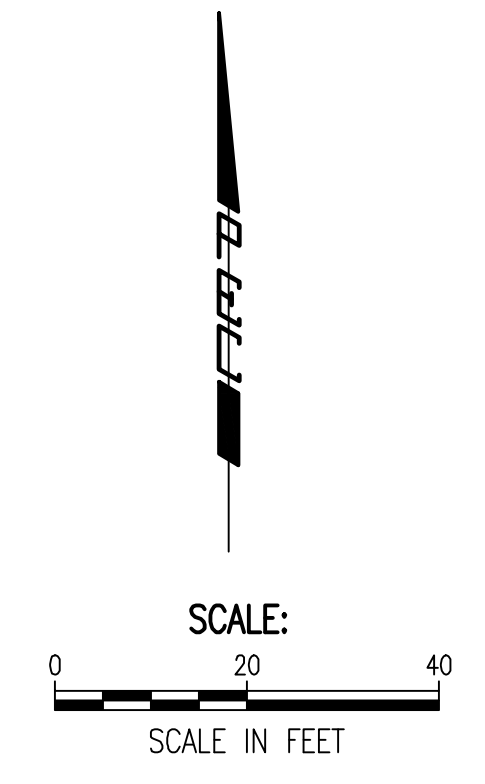
Water's Edge Aquatic Design
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SSM 3
Brick Manhole
Top= 1315.82
In= 1310.27 8" VCP (S)
Out= 1310.27 8" VCP (S)

SSM 2
Brick Manhole
Top= 1316.07
In= 1309.87 8" VCP (N)
In= 1310.37 4" PVC (NE)
Out= 1309.92 8" VCP (S)

SSM 1
Brick Manhole
Top= 1315.98
In= 1309.70 8" VCP (N)
In= 1310.28 6" VCP (NE)
Out= 1309.78 8" VCP (S)



LEGEND

- Coniferous Tree
- Deciduous Tree
- Benchmark
- Electric Control Panel
- Light Pole
- Electric Riser
- Electric Box
- Gate Post
- Monument
- Sign
- Sanitary Sewer Cleanout
- Sanitary Sewer Manhole
- Water Valve
- Buried Electric Line
- Sanitary Sewer Line
- Storm Water Sewer Line

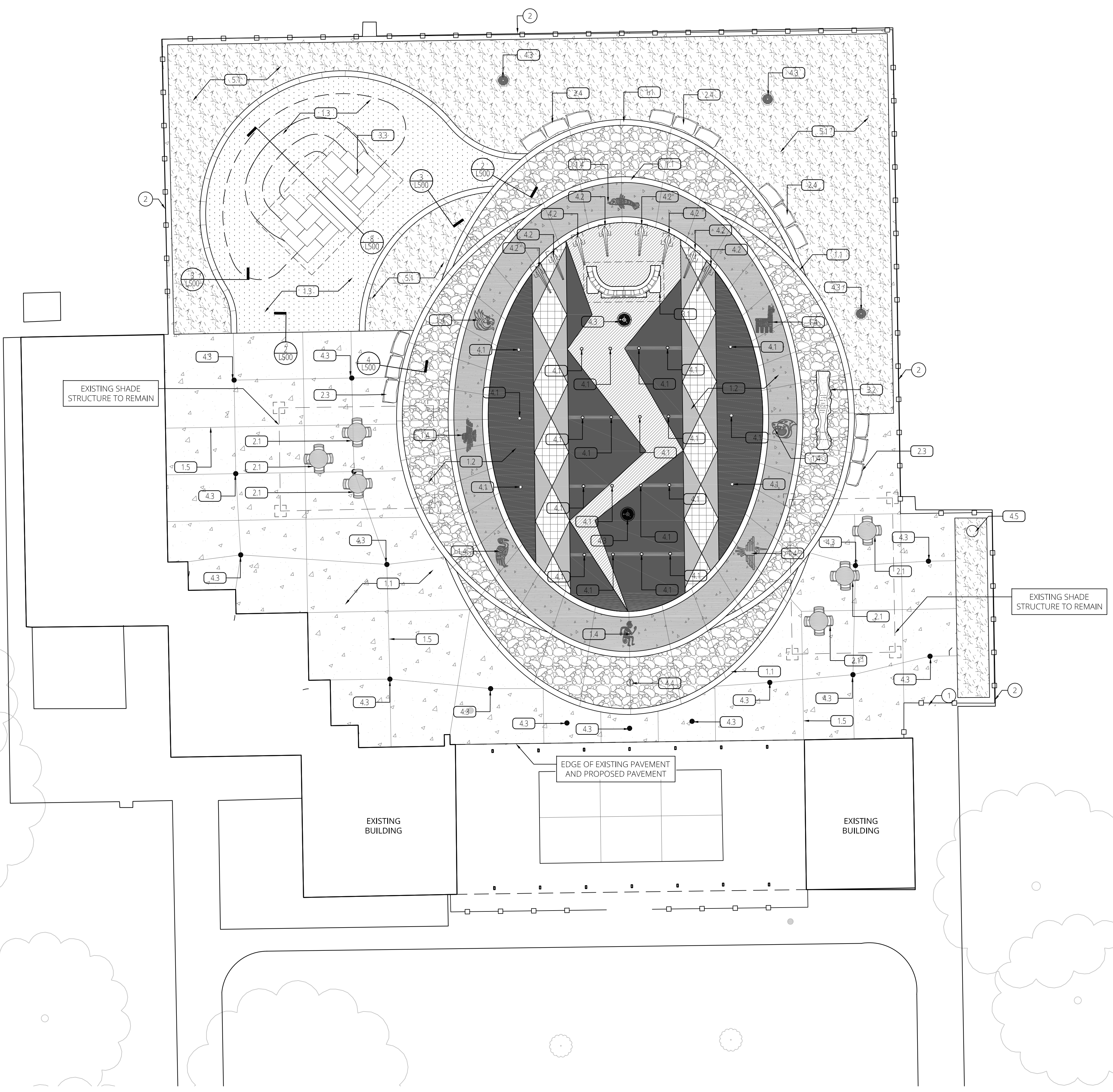
BENCH MARK LIST BM #201

- BM 201. N: 1702446.154, E: 1645433.343
ELEVATION: 1315.10 NAVD88
CHISELED SQUARE ON BACK OF CURB AT CURB
TRANSITION WEST SIDE WHEEL CHAIR RAMP
±20' N-NE TO ELX W12J89140
- BM 202. N: 1702645.837, E: 1645308.086
ELEVATION: 1316.56 NAVD88
CHISELED SQUARE ON NE CORNER OF LIGHT POLE
BASE ON NORTH SIDE OF POOL
37.50' WEST TO NW CORNER OF FENCE AROUND
POOL AREA
- BM 203. N: 1702562.882, E: 1645443.128
ELEVATION: 1316.56 NAVD88
CHISELED SQUARE ON NE CORNER OF LIGHT POLE BASE ON EAST
SIDE OF POOL AT NW CORNER OF PICNIC AREA

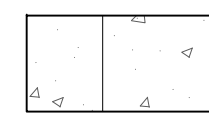
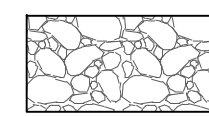
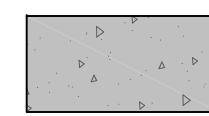
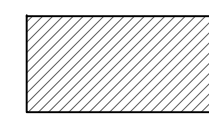
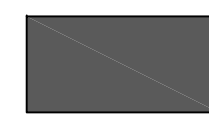
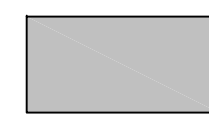
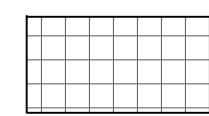
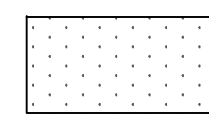
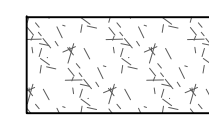
CONTROL POINTS CP-101

- CP-101. N: 1702426.467, E: 1645308.586
1/2" BAR W/ PEC CP CAP.
72.22' N-NE TO CORNER OF BUILDING W/MURAL
58.30' N-NE TO CENTER OF LIGHT POLE W/ 2' CONC. BASE
18.00' SW TO BACK OF CURB DROP OFF AREA
- CP-102. N: 1702642.479, E: 1645263.181
1/2" BAR W/ PEC CP CAP.
48.60' EAST TO NW FENCE CORNER AROUND POOL AREA
50.70' NW TO CENTER OF MANHOLE
50.20' S-SE TO NW CORNER OF ELECTRIC BOX PAD
- CP-103. N: 1702653.770, E: 1645500.643
1/2" BAR W/ PEC CP CAP.
61.80' W-SW TO NE FENCE CORNER AROUND POOL AREA
107.50' SW TO CHISELED SQUARE ON NE CORNER OF LIGHT POLE BASE
±9' SOUTH TO NORTH EDGE OF FENCE AROUND POOL

Saved: 08-13-2019 7:42:16 AM by KURT HUBBS
 Plot Scale: 1:245,202 10-16-2019 11:33:37 AM by BEI
 U:\Wichita-Civil\2018\180189\001\Main\Drawings\Evergreen\180189-01-C-Survey-Evergreen



GRAPHIC LEGEND

-  CITY STANDARD CONCRETE PAVEMENT
-  SCOFIELD STAMPED CONCRETE PAVEMENTS
BROOK STONE PATTERN
ARIZONA TAN COLOR
-  COLORED CONCRETE - DAVIS COLORS - SANDSTONE 5237
-  COLORED CONCRETE - DAVIS COLORS - MESA BUFF 5447
-  COLORED CONCRETE - DAVIS COLORS - TILE RED 1117
-  COLORED CONCRETE - DAVIS COLORS - EUROBLUE 418
-  COLORED CONCRETE - DAVIS COLORS - PEWTER 860
-  ARTIFICIAL TURF - GREEN
-  WOOD CHIP MULCH, MEDIUM SHRED, NO COLOR

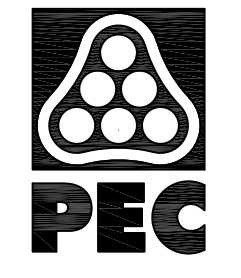
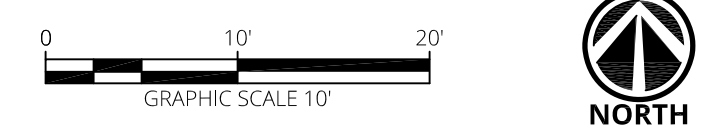
SITE MATERIAL KEYNOTES:

1.0 PAVEMENTS / SURFACING / RAMPS		DETAIL	SPEC
1.1	CITY STD. CONCRETE PAVEMENT	1/L500	CITY STD.
1.2	DECORATIVE PAVEMENT	2/L500	32 13 16
1.3	ARTIFICIAL TURF	3/L500	32 18 13
1.4	STAINED AZTEC SYMBOLS	5/L500	32 13 16
1.5	CONCRETE JOINTING	SP DRAWINGS	CITY STD.
2.0 SITE FURNISHINGS		DETAIL	SPEC
2.1	ROUND TABLE W/ CHAIR - BY OWNER	N.I.C.	N.I.C.
2.2	JAVA CHAISE LOUNGES - BY OWNER	N.I.C.	N.I.C.
2.3	LIMESTONE BLOCK SEATING - CONC.	4/L500	N/A
2.4	LIMESTONE BLOCK SEATING - MULCH BED	5/L501	N/A
3.0 PLAY EQUIPMENT		DETAIL	SPEC
3.1	CUSTOM AZTEC GUARD	6/L500	03 49 00
3.2	CUSTOM TODDLER RUINS	7/L500	03 49 00
3.3	CUSTOM AZTEC TEMPLE SLIDE	8/L500	03 49 00
4.0 AQUATIC / SPRAYGROUND		DETAIL	SPEC
4.1	SPRAY NOZZLE HEAD	SP DRAWINGS	13 14 20
4.2	CUSTOM AZTEC SPRAY TOWERS	4/L501	11 68 00
4.3	DRAIN GRATE	SP DRAWINGS	13 11 92
4.4	ACTIVATION BOLLARD	SP DRAWINGS	13 14 20
4.5	WATER FEATURE VALVE PIT	SP DRAWINGS	13 14 20
5.0 PLANTING / LANDSCAPE		DETAIL	SPEC
5.1	WOOD CHIP MULCH	N/A	CITY STD.

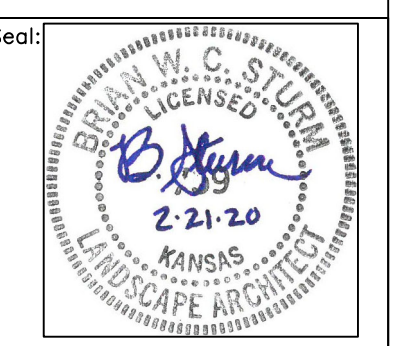
EXISTING CONDITIONS NOTES:

- ① EXISTING CONCRETE WALKWAYS. TIE INTO SMOOTHLY AND EVENLY. REPLACE ANY CONCRETE DAMAGED BY CONSTRUCTION. SEE CIVIL DRAWINGS.
- ② EXISTING FENCE TO REMAIN.

1 | SITE MATERIAL PLAN
SCALE = 1" = 10'



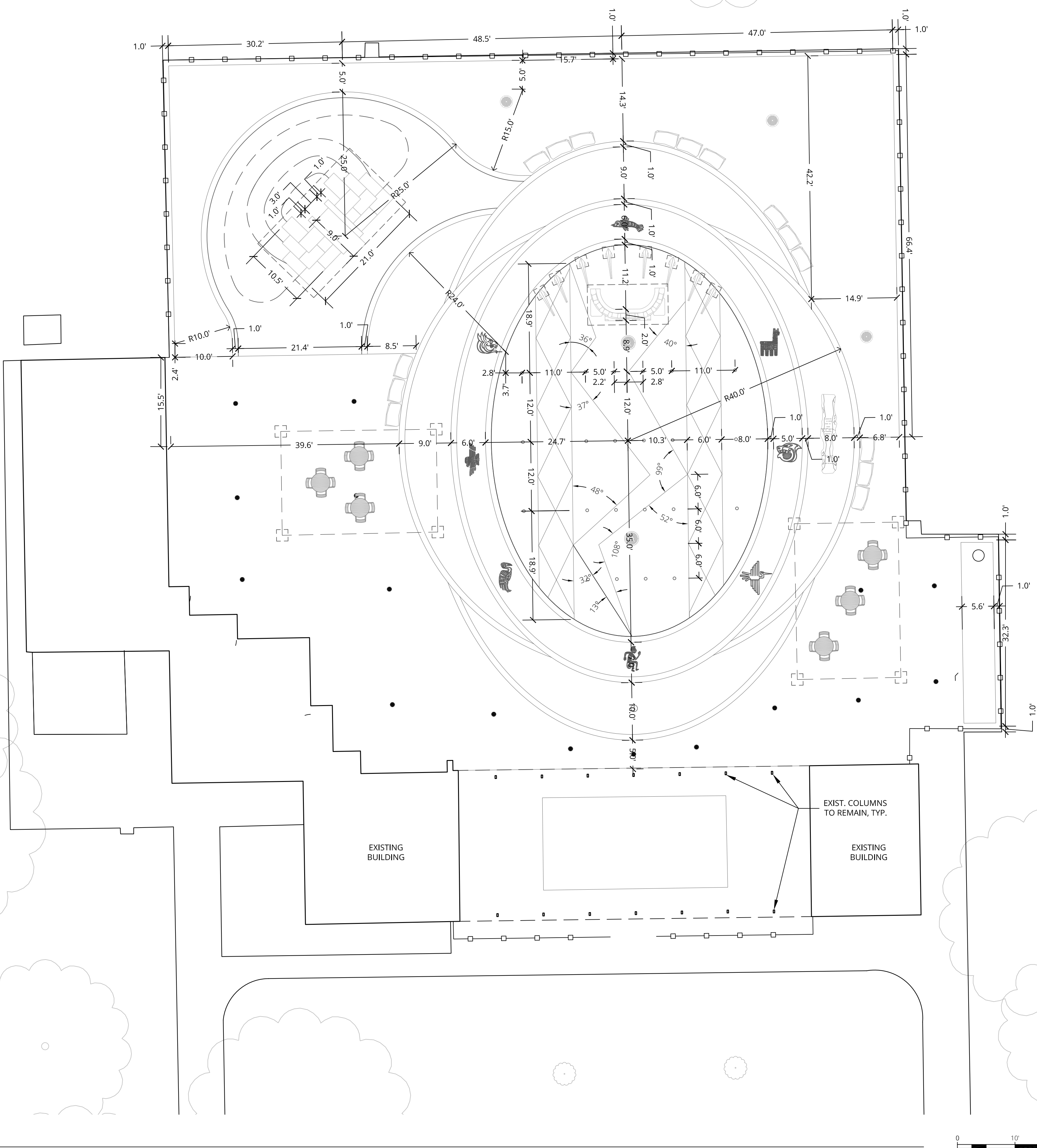
WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



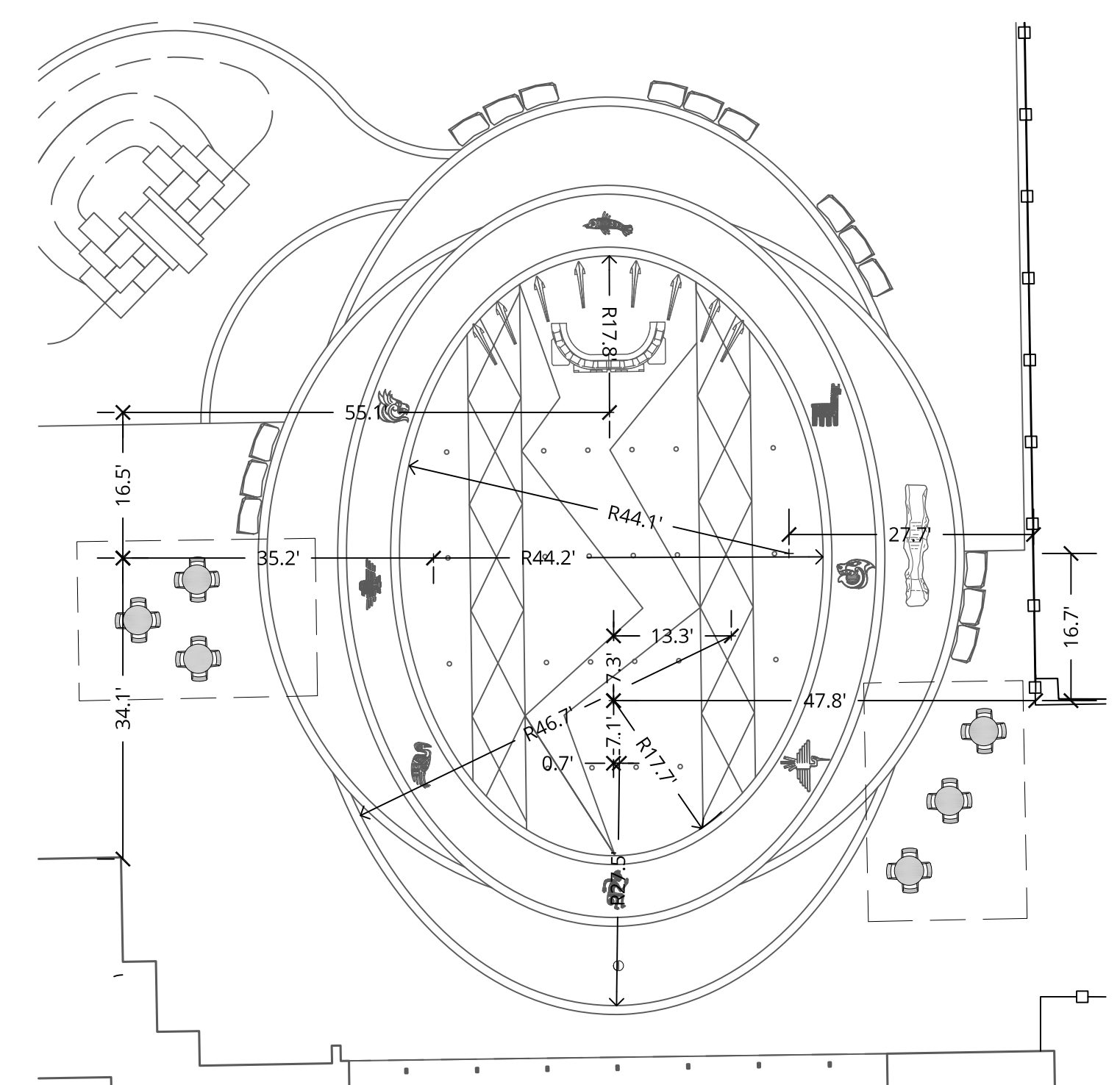
Brian Sturm—LSCP, ARCH.
LICENSE #759
Date: 02-21-20 Job #: 18-512
Drawn: Checked:

Issue: CONSTRUCTION DOCUMENTS

MATERIALS PLAN



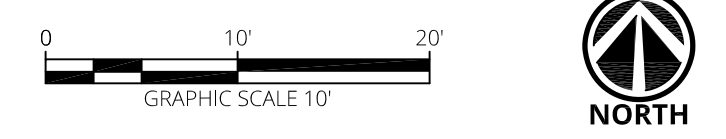
1 | SITE LAYOUT PLAN
SCALE = 1" = 10'



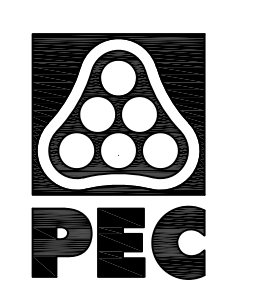
2 | ELLIPSE LAYOUT
SCALE = 1/16" = 1'-0"

GENERAL NOTES

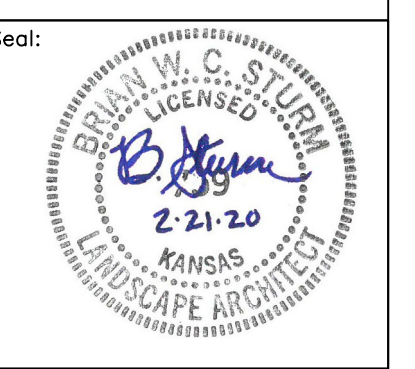
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KNOW ALL OBSERVABLE CONDITIONS AND TO CONFORM TO ALL APPLICABLE CODES. THE CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ANY NECESSARY OR APPROPRIATE QUESTIONS OR CLARIFICATIONS. THE SITE CONTRACTOR SHALL INCORPORATE ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND STANDARDS, INCLUDING FEDERAL ADA REQUIREMENTS.
- ALL WORK SHALL CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATION OF THE CITY OF WICHITA. GRADING, PAVING, AND MATERIALS SHALL COMPLY WITH THE CITY OF WICHITA TECHNICAL SPECIFICATIONS AND STANDARD DETAILS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, ATTAIN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK AREA. TRASH AND WASTE MATERIALS SHALL BE COLLECTED AT A SAFE POINT AWAY FROM FLAMES OR OTHER FIRE SOURCES. TRASH SHALL BE PROPERLY DISPOSED OF DAILY, UNLESS A COVERED DUMPSTER IS PROVIDED AND ITS LOCATION APPROVED BY THE OWNER'S REPRESENTATIVE.
- PROMPTLY REMOVE ALL DEMOLITIONS, PROJECT DISCARDS, RUBBISH, AND DEBRIS FROM THE EFFECTIVE PROJECT LIMITS, AND DISPOSE OF SUCH ITEMS IN A LEGAL MANNER.
- AFTER ALL WORK HAS BEEN COMPLETED AND THE PROJECT HAS BEEN ACCEPTED, THE CONTRACTOR SHALL SWEEP THE ENTIRE WORK AREA AND CLEAN AND REMOVE ALL DIRT, MUD, TRASH, WASTE MATERIAL, CONSTRUCTION EQUIPMENT, AND VEHICLES.
- PROVIDE ADEQUATE BARRICADES AT ENTRANCES, EXCAVATIONS, OTHER OPENINGS, AND HAZARDOUS AREAS TO KEEP OUT UNAUTHORIZED PERSONS FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
- IN ALL CASES THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS IS ASSUMED TO BE APPROXIMATE. LOCATIONS ARE BASED ON THE BEST AVAILABLE REFERENCE PLANS AND AN ACTUAL FIELD SURVEY OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. CONTACT KANSAS UTILITY ONE CALL, 1-800-344-7233, OR 8-1-1, BEFORE COMMENCING ANY EXCAVATION. THE CONTRACTOR MUST ALLOW SUFFICIENT TIME FOR MARKING AND COORDINATION WITH APPROPRIATE UTILITY AUTHORITIES.
- THE CONTRACTOR SHALL NOT INTERRUPT EXISTING UTILITIES AND/OR SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER, LANDLORD, OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE AFFECTED OWNER, LANDLORD, JURISDICTIONAL AUTHORITY, AND/OR UTILITY COMPANY. INTERRUPTIONS SHALL OCCUR ONLY AFTER ACCEPTABLE TEMPORARY OR PERMANENT SERVICE HAS BEEN PROVIDED.
- WRITTEN DIMENSIONS SHALL PREVAIL. NO DIMENSION MAY BE SCALED. FOR ANY UNCLEAR ITEMS ATTAIN CLARIFICATION FROM THE OWNER'S REPRESENTATIVE.
- COORDINATES AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE TO THE BACK OF CURB, OUTSIDE FACE OF BUILDING, EDGE OF PAVEMENT, OR CENTER OF STRUCTURE OR SIGN, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE OWNER'S REPRESENTATIVE IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE DRAWINGS AND FIELD CONDITIONS SO THAT APPROPRIATE ADJUSTMENTS AND/OR REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED IN THE DRAWINGS MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL RESTORE ANY AND ALL STRUCTURES, UTILITIES, PAVEMENT, CURB, SIDEWALK, TURF, TREES, PLANTING BEDS, IRRIGATION, ETC. DISTURBED WITHIN THE SITE AND ADJOINING PROPERTIES DURING DEMOLITION AND CONSTRUCTION. SUCH FACILITIES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE AFFECTED OWNERS. ALL COSTS FOR CLEAN-UP AND RESTORATION WORK INCLUDING, BUT NOT LIMITED, CONSTRUCTION SIGNAGE, STREET SWEEPING, AND MAINTAINING EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR SHALL REFER TO CIVIL PLAN FOR PAVEMENT JOINTING.



waters edge
AQUATIC DESIGN
11205 W. 79th St.
Lenexa, KS 66214
t. 913.438.4338
www.WeDesignPools.com
Kansas STATE CERTIFICATE
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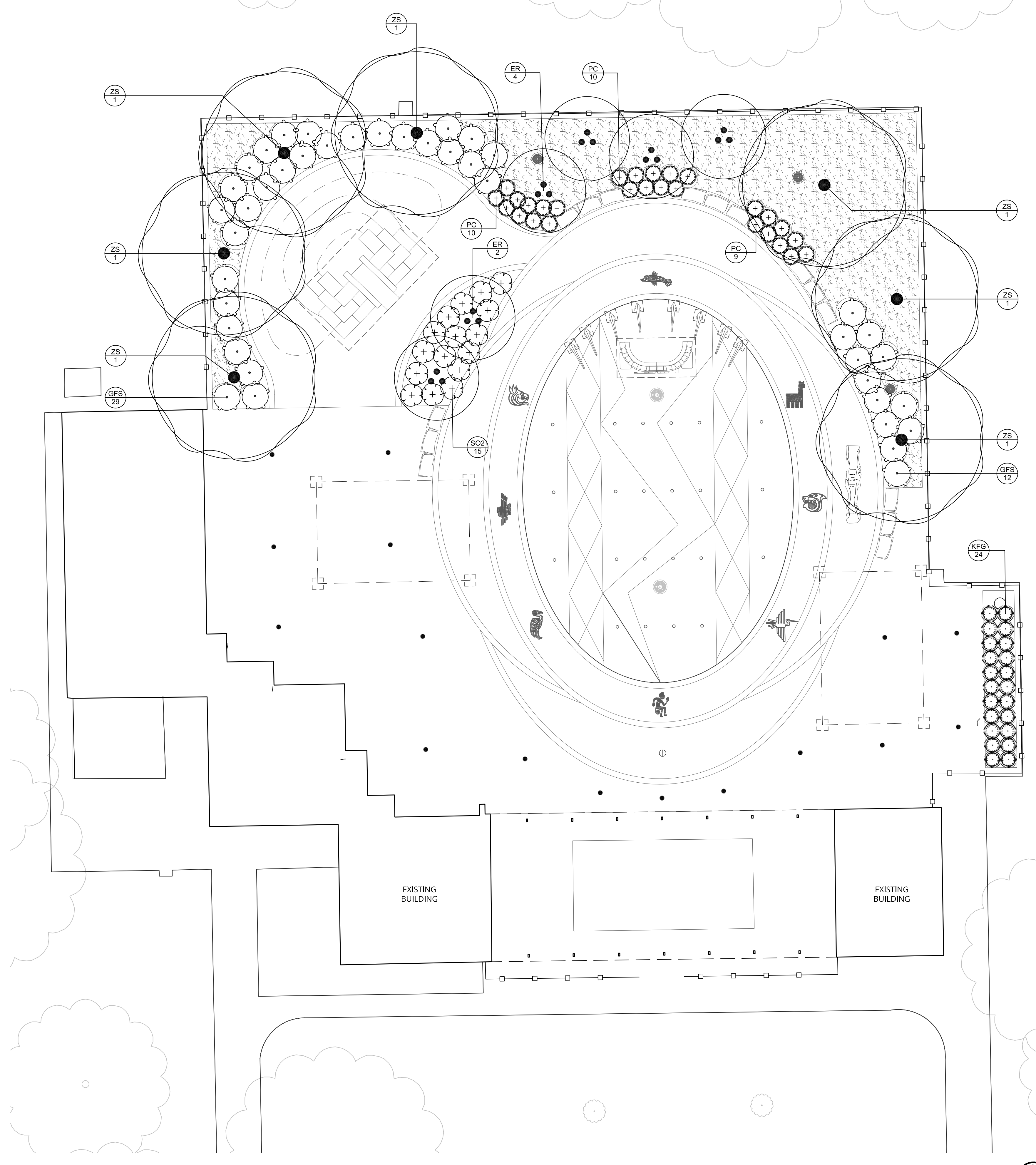
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Brian Sturm—LSCP, ARCH.
LICENSE #759
Date: 02-21-20 Job #: 18-512
Drawn: Checked:
Issue: CONSTRUCTION DOCUMENTS

LAYOUT PLAN

L200
Water's Edge Aquatic Design
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1 | PLANTING PLAN
SCALE = 1" = 10'

PLANT SCHEDULE

ORNAMENTAL TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	ER	6	Cercis canadensis / Eastern Redbud	B & B	Multi	6' - 8'
SHADE TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	ZS	7	Zelkova serrata / Sawleaf Zelkova	B & B	3"Cal	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT		
	GFS	41	Rhus aromatica 'Gro Low' / Gro Low Fragrant Sumac	5 gal		
	SO2	16	Symphoricarpos orbiculatus / Coralberry	5 gal		
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	CONT		
	KFG	24	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	3 gal		
	PC	28	Panicum virgatum 'Cheyenne Sky' / Switch Grass	3 gal		
LANDSCAPE MATERIALS	QTY	PRODUCT	CONT			
	3100sf	WOOD CHIP MULCH, MEDIUM SHRED, NO COLOR	N/A			

- LANDSCAPE NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES IN THE PROJECT AREA AND THEIR PROTECTION DURING THE SCOPE OF WORK. CONTACT KANSAS ONE CALL AT 8-1-1 TO FILE A LOCATE REQUEST PRIOR TO ANY EXCAVATION. ANY DAMAGE TO UTILITIES DURING PLANTING OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR IN A MANNER APPROVED BY THE CITY AND AT NO ADDITIONAL COST TO THE CITY. ANY UTILITIES SHOWN ON THE PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
 - ALL SEEDING, SODDING, PLANTING, AND IRRIGATION OPERATIONS REQUIRED BY THIS PROJECT SHALL CONFORM TO PART 900 (LANDSCAPING AND IRRIGATION) OF THE CITY OF WICHITA STANDARD SPECIFICATIONS.
 - ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES ON CITY PROJECTS SHALL HAVE THE TURF RESTORED TO EXISTING CONDITIONS (OR BETTER), PER THE REQUIREMENTS LISTED IN SECTION 901 OF THE CITY OF WICHITA STANDARD SPECIFICATIONS, UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIAL PROVISIONS.
 - MATERIAL QUANTITIES SHOWN ON THE PLANTING PLAN TAKE PRECEDENCE OVER QUANTITIES LISTED IN THE PLANT SCHEDULE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE PLANTING PLAN PRIOR TO BIDDING. REPORT ANY DISCREPANCIES ON THE PLANTING PLAN TO THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASE AND INSTALLATION OF PLANT MATERIAL.
 - NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED.
 - ALL PLANT MATERIAL SHALL HAVE A NORMAL HABIT OF GROWTH AND SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE FROM DISEASE AND INSECT INFESTATIONS. THE MINIMUM ACCEPTABLE SIZES OF ALL PLANTS, MEASURED BEFORE PRUNING WITH BRANCHES IN NORMAL POSITION, SHALL CONFORM TO THE MEASUREMENTS SPECIFIED ON THE PLAN. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS AS SET FORTH IN THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1).
 - ALL SEEDING, SODDING, AND PLANTING SHALL OCCUR DURING SEASONAL DATE RANGES SPECIFIED IN PART 900 (LANDSCAPING AND IRRIGATION) OF THE CITY OF WICHITA STANDARD SPECIFICATIONS. PLANTING SHALL ONLY BE PERFORMED WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICE. DEVIATION FROM THE SPECIFIED PLANTING DATES WILL BE PERMITTED ONLY WHEN APPROVED BY THE LANDSCAPE ARCHITECT AND CITY STAFF.
 - ALL PLANT LOCATIONS ARE APPROXIMATE. CONTRACTOR MAY ADJUST, AS NECESSARY, TO AVOID CONFLICTS. THE FOLLOWING APPLIES FOR GENERAL PLANT LOCATIONS:
 - CREeping GROUNDcover SHALL BE LOCATED A MINIMUM OF 6 INCHES FROM EDGE OF PAVEMENT.
 - SHRUBS SHALL BE LOCATED A MINIMUM OF 2 FEET FROM EDGE OF PAVEMENT AND 4 FEET FROM BUILDINGS.
 - TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM EDGE OF PAVEMENT.
 - EQUALLY SPACE ALL PLANTS OF THE SAME SPECIES FOR BEST VIEWING.
 - WATER SHALL BE FURNISHED BY THE CONTRACTOR FOR EXECUTION OF ALL WORK SPECIFIED ON THIS PLAN. THE CONTRACTOR SHALL VERIFY THAT THE WATER AVAILABLE IS SUITABLE FOR IRRIGATION AND FREE FROM INGREDIENTS HARMFUL TO PLANT LIFE. THE CONTRACTOR SHALL WATER ALL PLANT MATERIAL UNTIL FINAL ACCEPTANCE OF THE PROJECT.
 - REMOVE ALL RUBBISH, EQUIPMENT, AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES. REMOVE SOIL OR DIRT THAT ACCUMULATES DUE TO PLANTING OPERATIONS EACH DAY.
 - MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE AS REQUIRED UNTIL FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT AND CITY STAFF. PLANTS SHALL BE KEPT IN A HEALTHY AND GROWING CONDITION BY PRUNING, SPRAYING, AND ANY OTHER NECESSARY OPERATION OF MAINTENANCE. THE CONTRACTOR SHALL INSPECT PLANTS DURING THE MAINTENANCE PERIOD AND NEEDED MAINTENANCE SHALL BE PERFORMED PROMPTLY. MULCHED AREAS SHALL BE KEPT FREE OF WEEDS. THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE OF PLANT MAINTENANCE FOR APPROVAL BY THE LANDSCAPE ARCHITECT AND CITY STAFF AT THE TIME OF PLANT INSTALLATION. THE SCHEDULE SHALL INCLUDE INSPECTION, WATERING, PRUNING, SPRAYING, AND OTHER NECESSARY MAINTENANCE ACTIVITIES.
 - AT THE CONCLUSION OF PLANT INSTALLATION, THE LANDSCAPE ARCHITECT SHALL CONDUCT AN INSPECTION OF PLANTED MATERIALS IN APRIL. THE PURPOSE OF THIS INSPECTION SHALL BE FOR THE PROVISIONAL ACCEPTANCE OF THE CONTRACT WORK. IF THERE ARE ANY DEFICIENCIES IN THE WORK, THE CONTRACTOR WILL BE NOTIFIED AND THE WORK WILL BE SUBJECT TO REINSPECTION BEFORE FINAL ACCEPTANCE. IF THERE ARE DEAD OR UNHEALTHY PLANTS, THEY SHALL BE REMOVED FROM THE SITE AND REPLACED PRIOR TO MAY 15th.
 - AFTER PROVISIONAL ACCEPTANCE OF THE INITIAL PLANT INSTALLATION BY THE LANDSCAPE ARCHITECT IN MAY, THE CONTRACTOR IS REQUIRED TO PROVIDE ESTABLISHMENT CARE FOR ALL PLANTS PLANTED ON THE PROJECT UNTIL THE FOLLOWING OCTOBER, AT WHICH TIME THE LANDSCAPE ARCHITECT WILL AGAIN INSPECT THE PLANTS. ALL PLANTS FOUND TO BE UNHEALTHY OR DEAD AT THE TIME OF THIS OCTOBER INSPECTION SHALL BE REPLACED. THE CONTRACTOR'S RESPONSIBILITY ENDS AT THE TIME OF INSPECTION FOR ANY PLANTS REPLACED OR DEAD IN OCTOBER. DURING THE ESTABLISHMENT MAINTENANCE PERIOD, THE CONTRACTOR SHALL INSPECT THE PLANT MATERIALS TWICE A MONTH FOR WATERING AND OTHER MAINTENANCE NEEDS. CONTRACTOR SHALL KEEP THE PLANTS IN A HEALTHY GROWING CONDITION DURING THE ESTABLISHMENT MAINTENANCE PERIOD BY PROVIDING THE NECESSARY CARE CONSISTING OF PRUNING, SPRAYING, WATERING, AND ANY OTHER MAINTENANCE TYPE OPERATION REQUIRED. THE MULCHES AREAS AROUND PLANTS SHALL BE KEPT FREE OF WEEDS AND GRASSES FOR THE FULL DURATION OF ANY REQUIRED ESTABLISHMENT MAINTENANCE PERIOD.
 - ALL DEAD AND UNHEALTHY MATERIAL IDENTIFIED AT THE TIME OF ANY SPECIFIED INSPECTION SHALL BE REMOVED FROM THE SITE AND REPLACED WITH PLANTS OF THE SAME TYPE AND SIZE AS ORIGINALLY SPECIFIED. SUCH REPLACEMENTS SHALL BE MADE IN THE SAME MANNER AS SPECIFIED FOR THE ORIGINAL PLANTINGS AND AT NO EXTRA COST TO THE CITY. ALL DEAD AND UNHEALTHY PLANTS SHALL BE REMOVED WITHIN 14 DAYS AFTER THE CONTRACTOR HAS BEEN NOTIFIED THAT THE PLANT MUST BE REPLACED. A PENALTY OF \$50 PER PLANT PER DAY WILL BE CHARGED TO THE CONTRACTOR FOR ALL DAYS IN EXCESS OF THE 14 DAYS REQUIRED TO REMOVE ANY PLANT.

waters edge
AQUATIC DESIGN

11205 W. 79th St.
Lenexa, KS 66214
T. 913.438.4338
www.WeDesignPools.com
Kansas STATE CERTIFICATE OF AUTHORITY #E-990

PEC

landworks
STUDIO

ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

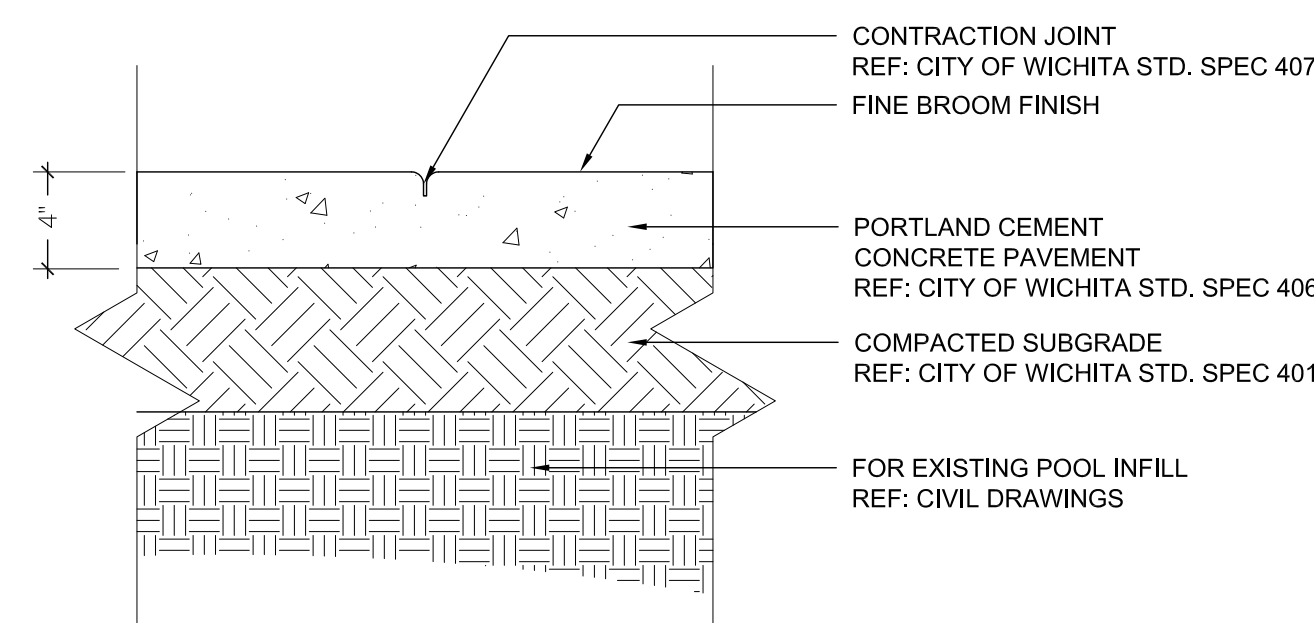
H&B
HOSS & BROWN ENGINEERS

WICHITA, KANSAS
Spray Ground
EVERGREEN PARK

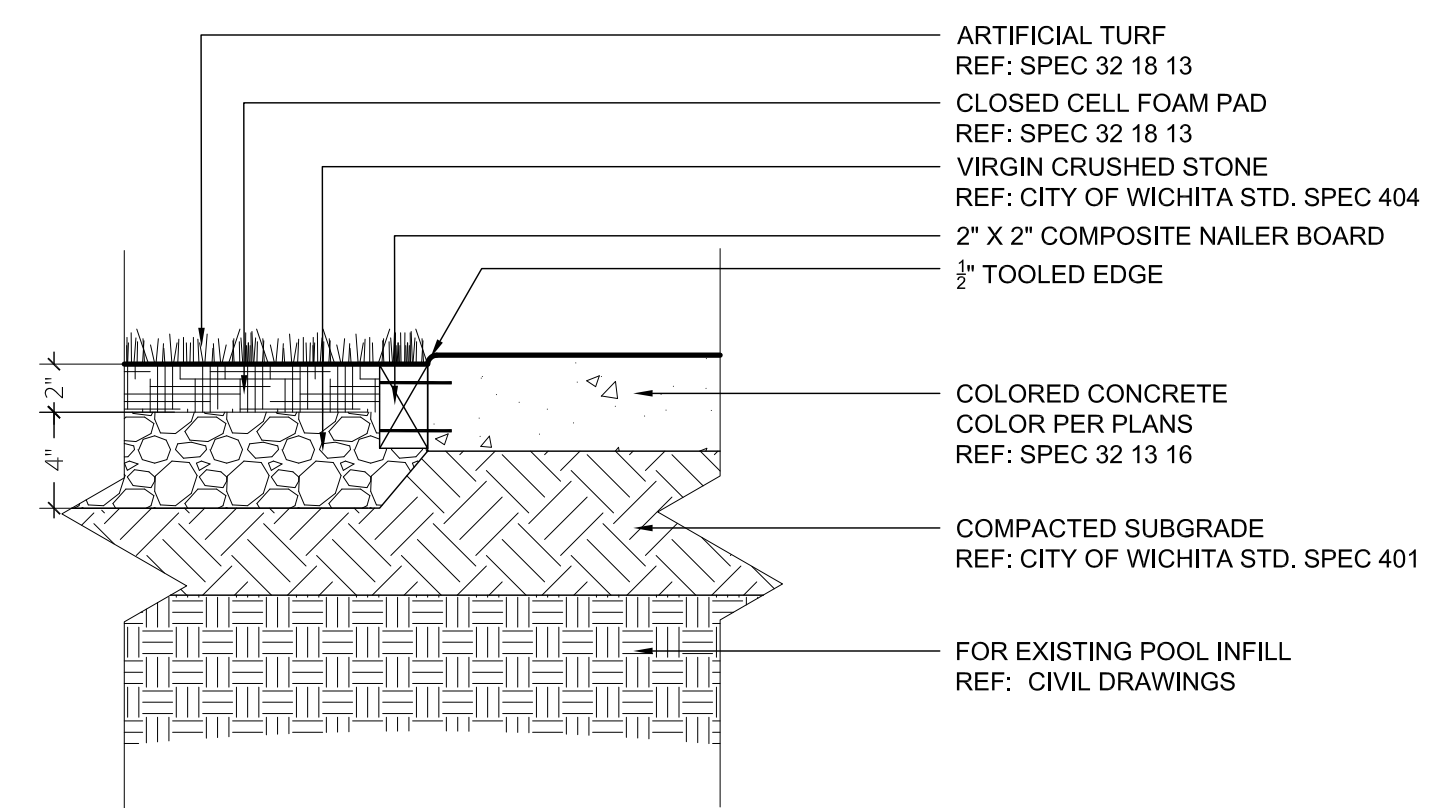
CITY OF WICHITA

Seal:

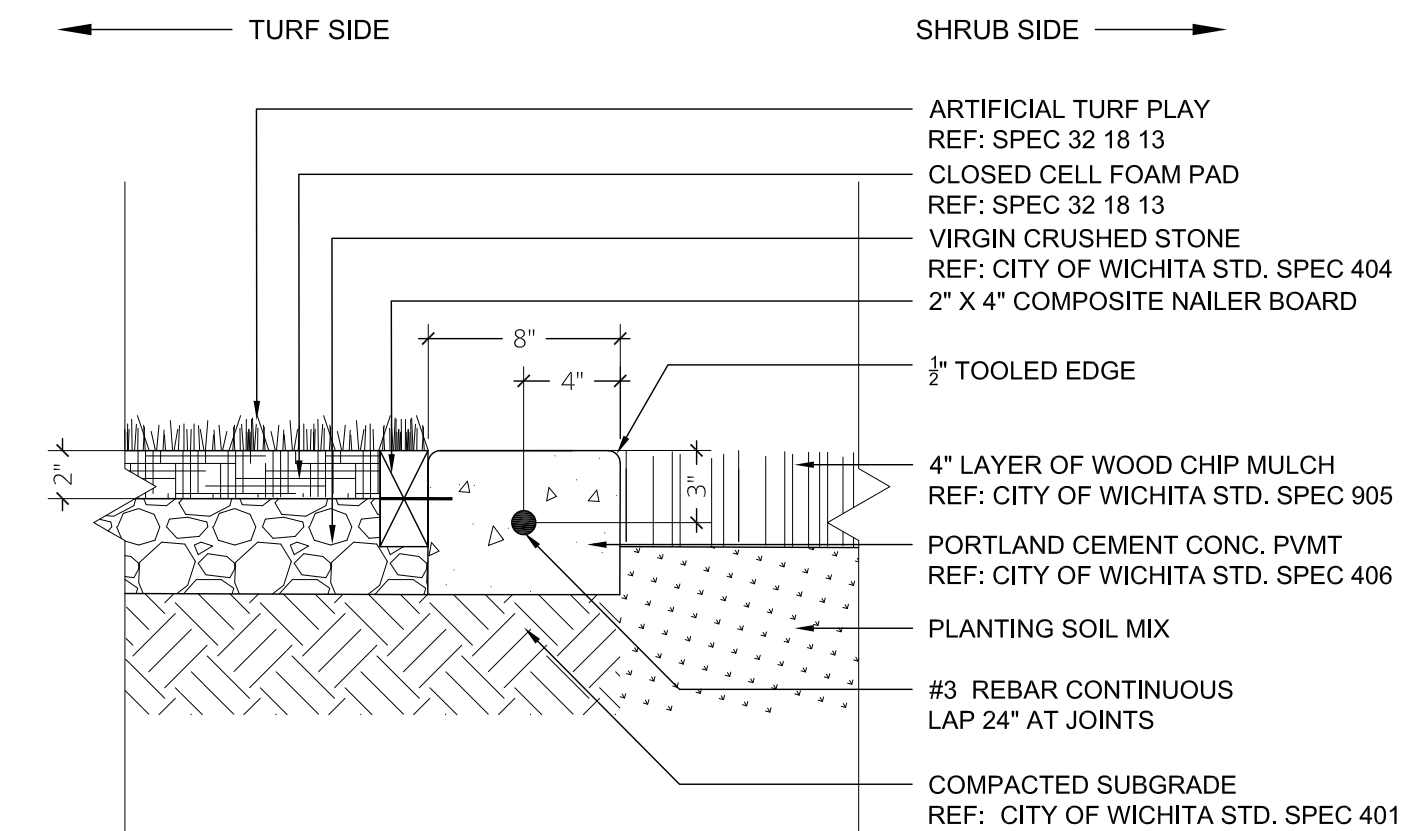
Brian Sturm—LSCP, ARCH.
LICENSE #759
Date: 02-21-20 Job #: 18-512
Drawn: Checked:
Issue: CONSTRUCTION DOCUMENTS
PLANTING PLAN
L400
Water's Edge Aquatic Design
© 2019



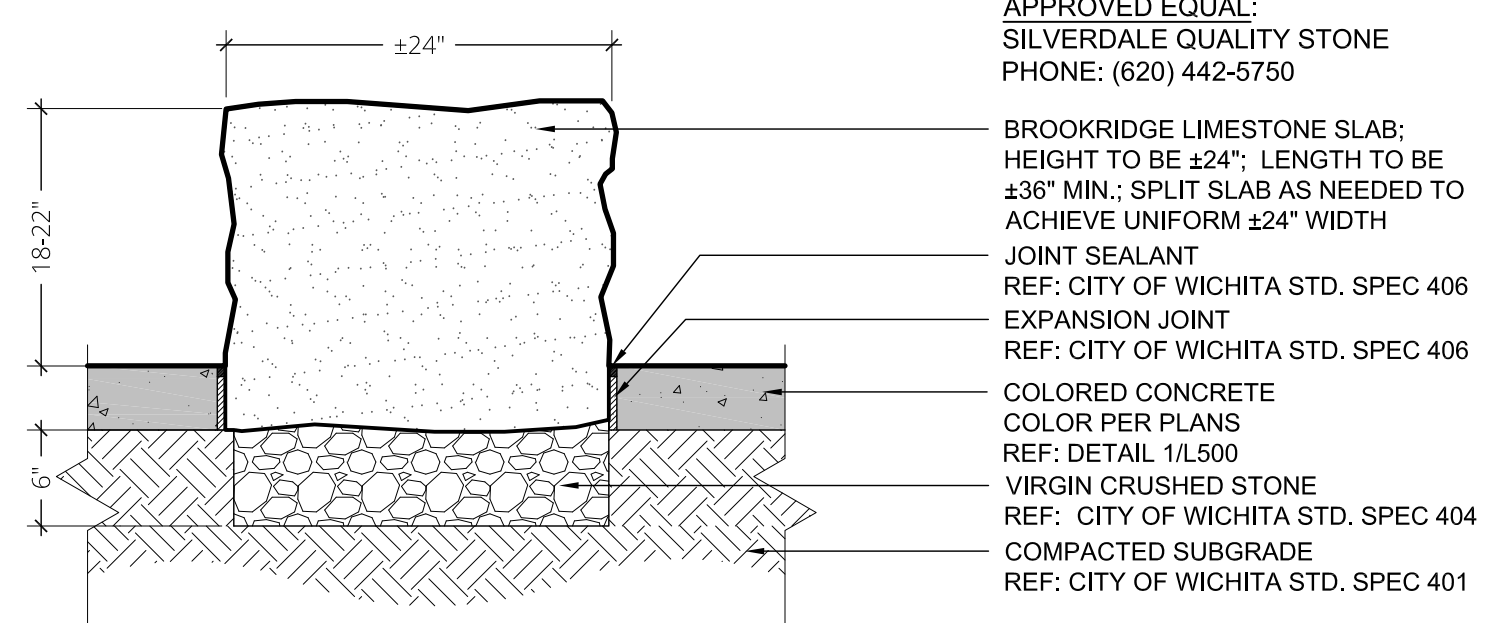
1 STANDARD CONCRETE PAVEMENT
SCALE = 1 1/2" = 1'-0"



2 ARTIFICIAL TURF ADJACENT STD. CONC. PVMT
SCALE = 1 1/2" = 1'-0"



3 CONCRETE BAND DETAIL
SCALE = 1 1/2" = 1'-0"

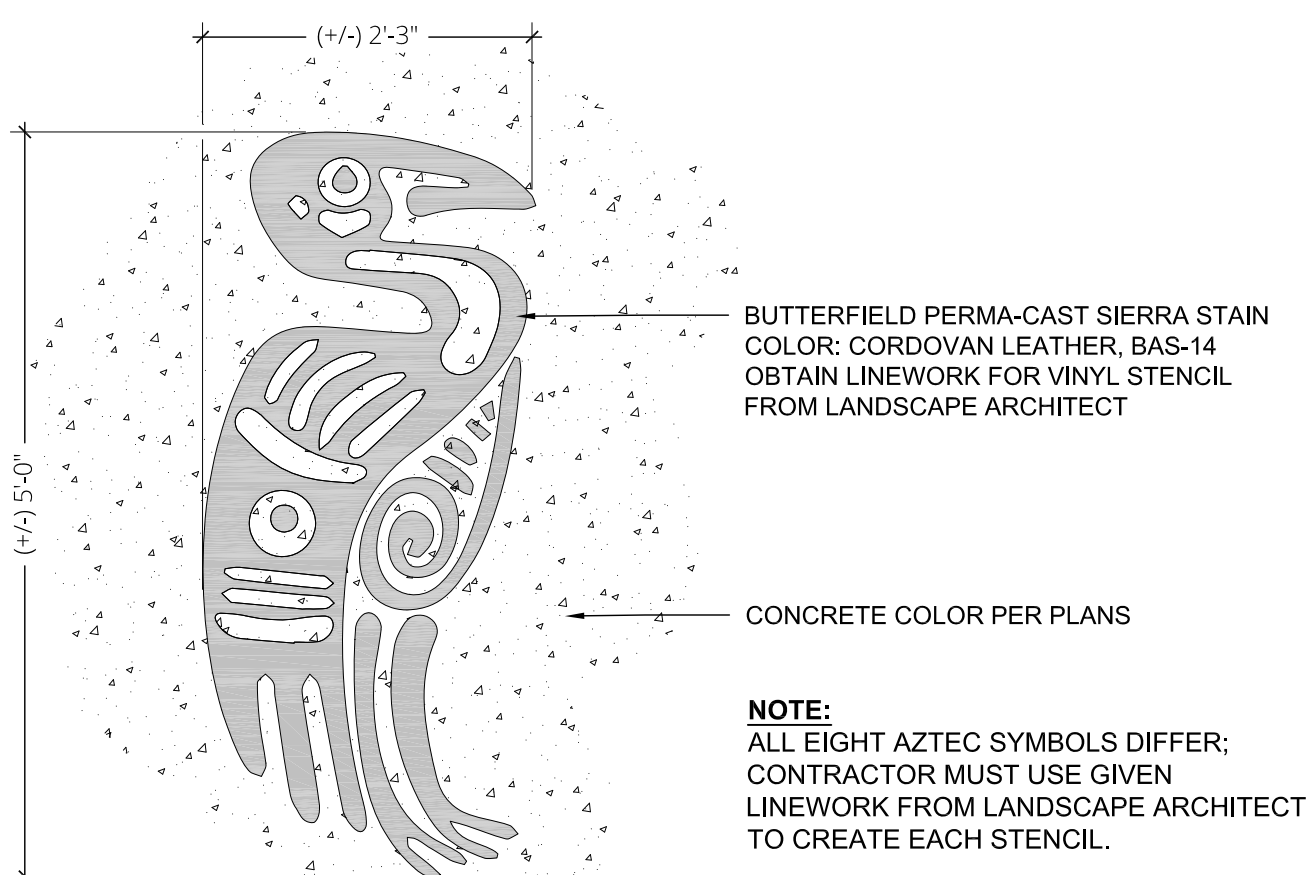


4 LIMESTONE BLOCK SEATING
SCALE = 1" = 1'-0"

NOTE:
BROOKRIDGE LIMESTONE SLAB BY HOUSE OF ROCKS
CONTACT: MICKEY HIGDON
EMAIL: mickey@thehouseofrocks.com
PHONE: (913) 432-5990

APPROVED EQUAL:
SILVERDALE QUALITY STONE
PHONE: (620) 442-5750

BROOKRIDGE LIMESTONE SLAB; HEIGHT TO BE ±24". LENGTH TO BE ±36" MIN.; SPLIT SLAB AS NEEDED TO ACHIEVE UNIFORM ±24" WIDTH
JOINT SEALANT
REF: CITY OF WICHITA STD. SPEC 406
EXPANSION JOINT
REF: CITY OF WICHITA STD. SPEC 406
COLORED CONCRETE
COLOR PER PLANS
REF: DETAIL 1/L500
VIRGIN CRUSHED STONE
REF: CITY OF WICHITA STD. SPEC 404
COMPACTED SUBGRADE
REF: CITY OF WICHITA STD. SPEC 401

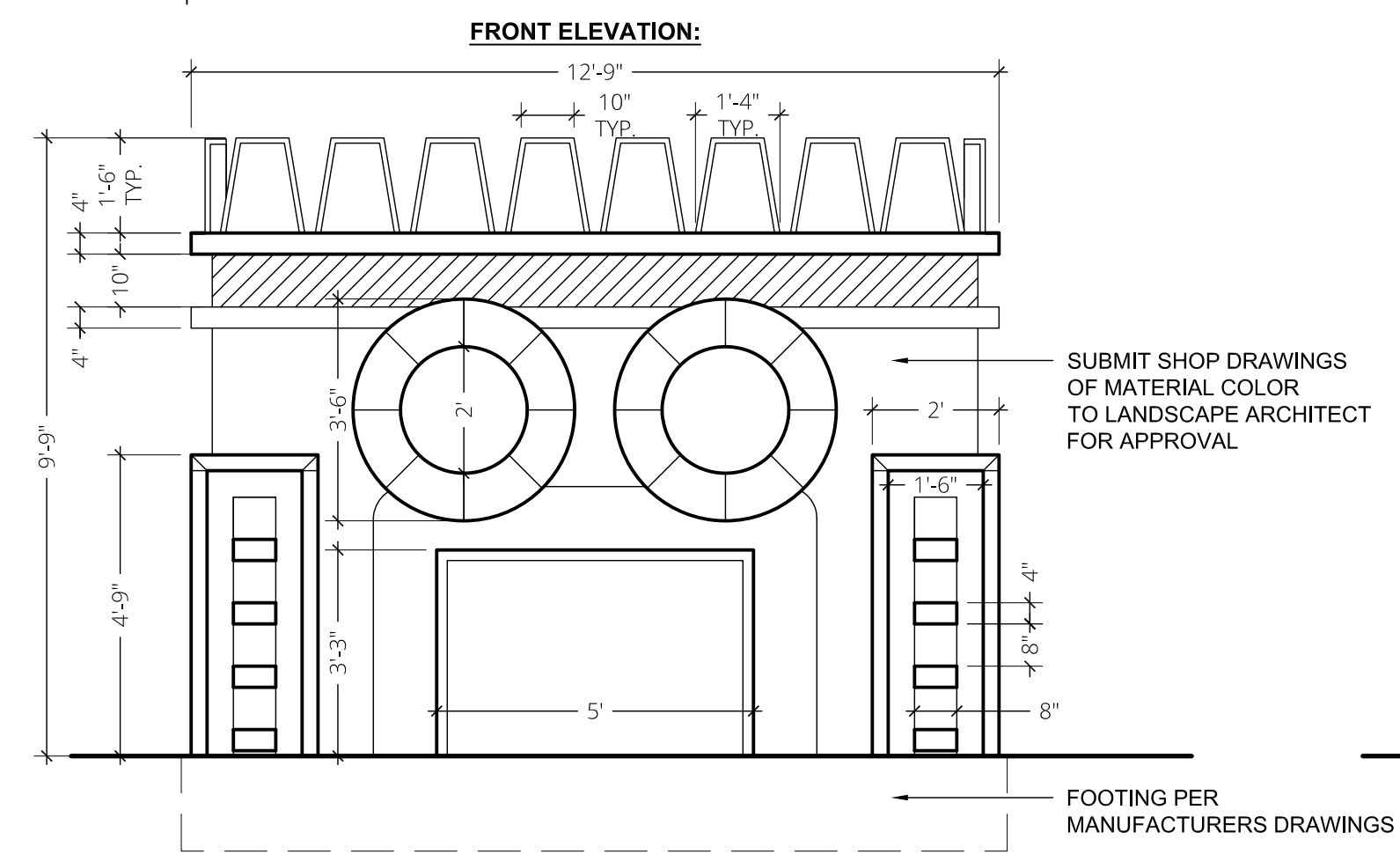


5 CUSTOM STAINED AZTEC SYMBOLS
SCALE = 3/4" = 1'-0"

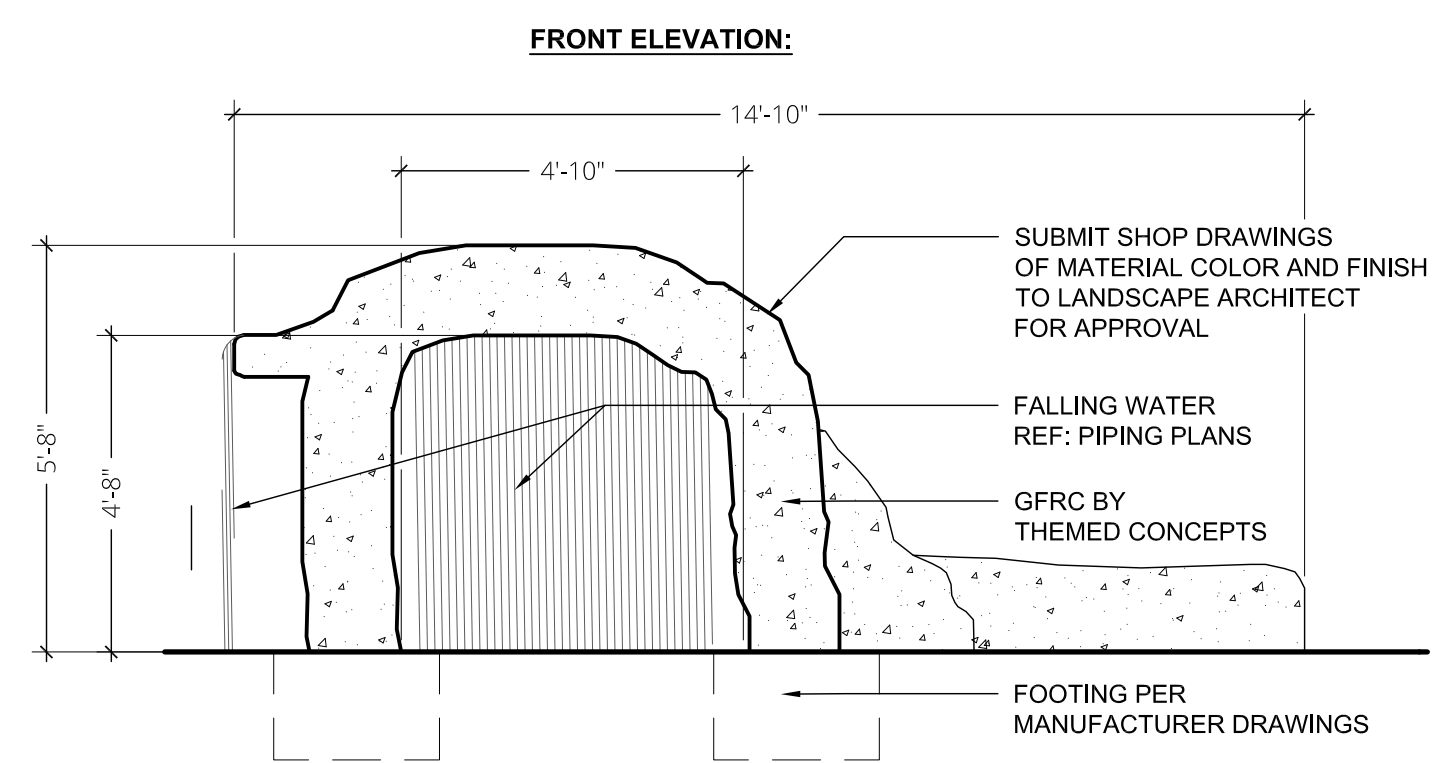
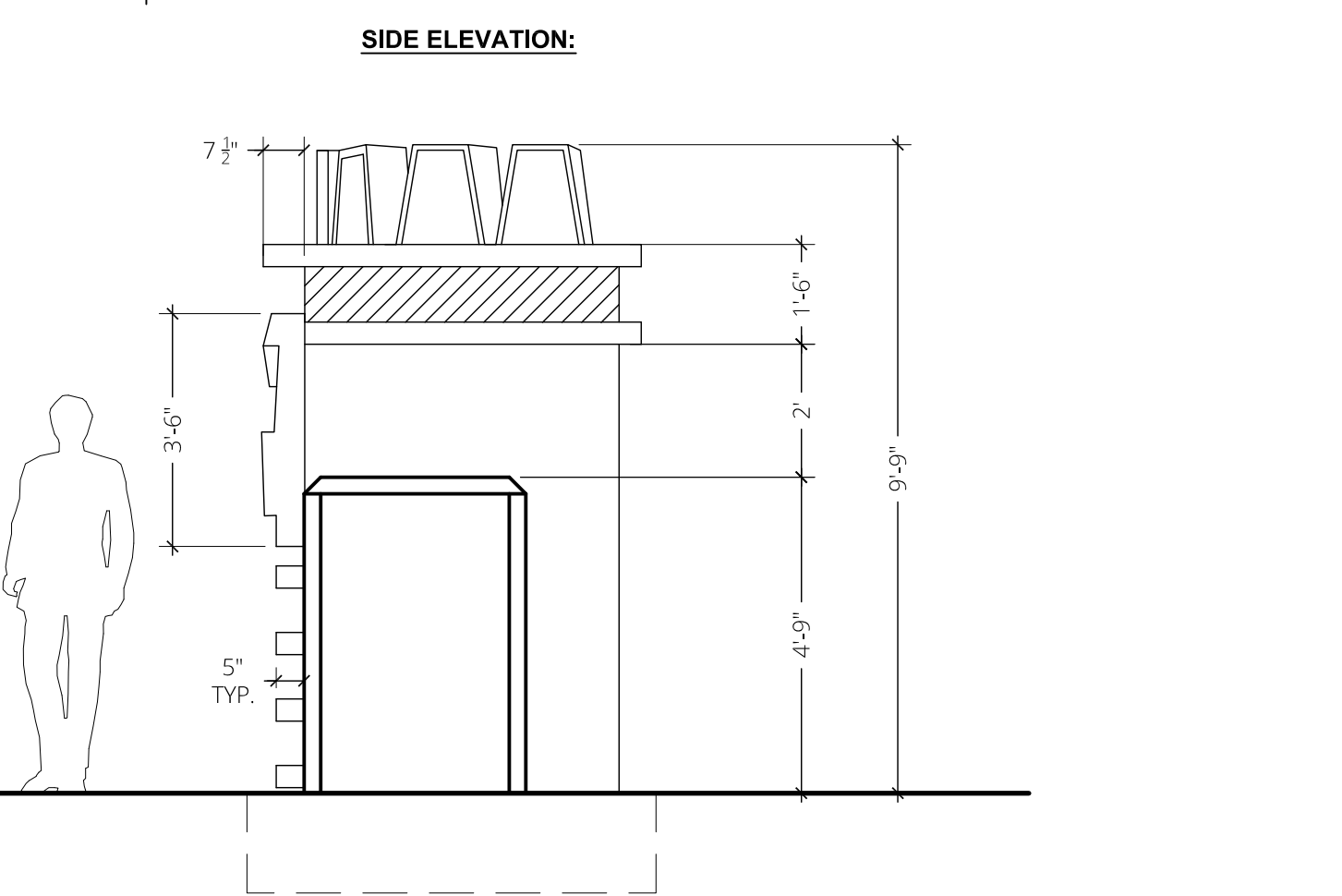
BUTTERFIELD PERMA-CAST SIERRA STAIN
COLOR: CORDOVAN LEATHER, BAS-14
OBTAIN LINEWORK FOR VINYL STENCIL FROM LANDSCAPE ARCHITECT

CONCRETE COLOR PER PLANS

NOTE:
ALL EIGHT AZTEC SYMBOLS DIFFER; CONTRACTOR MUST USE GIVEN LINEWORK FROM LANDSCAPE ARCHITECT TO CREATE EACH STENCIL.



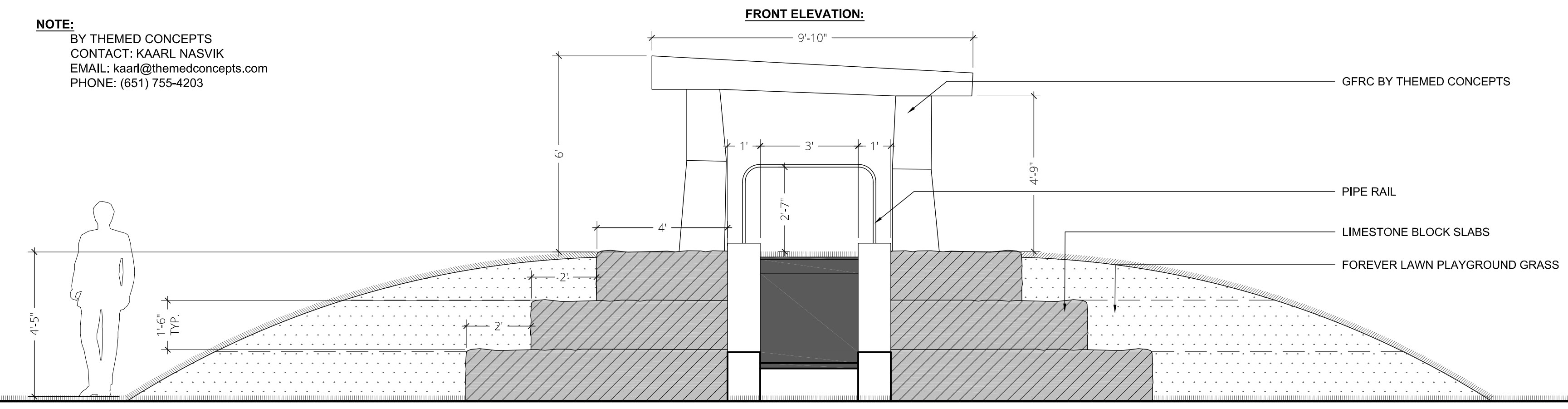
6 CUSTOM AZTEC GAURD
SCALE = NOT TO SCALE



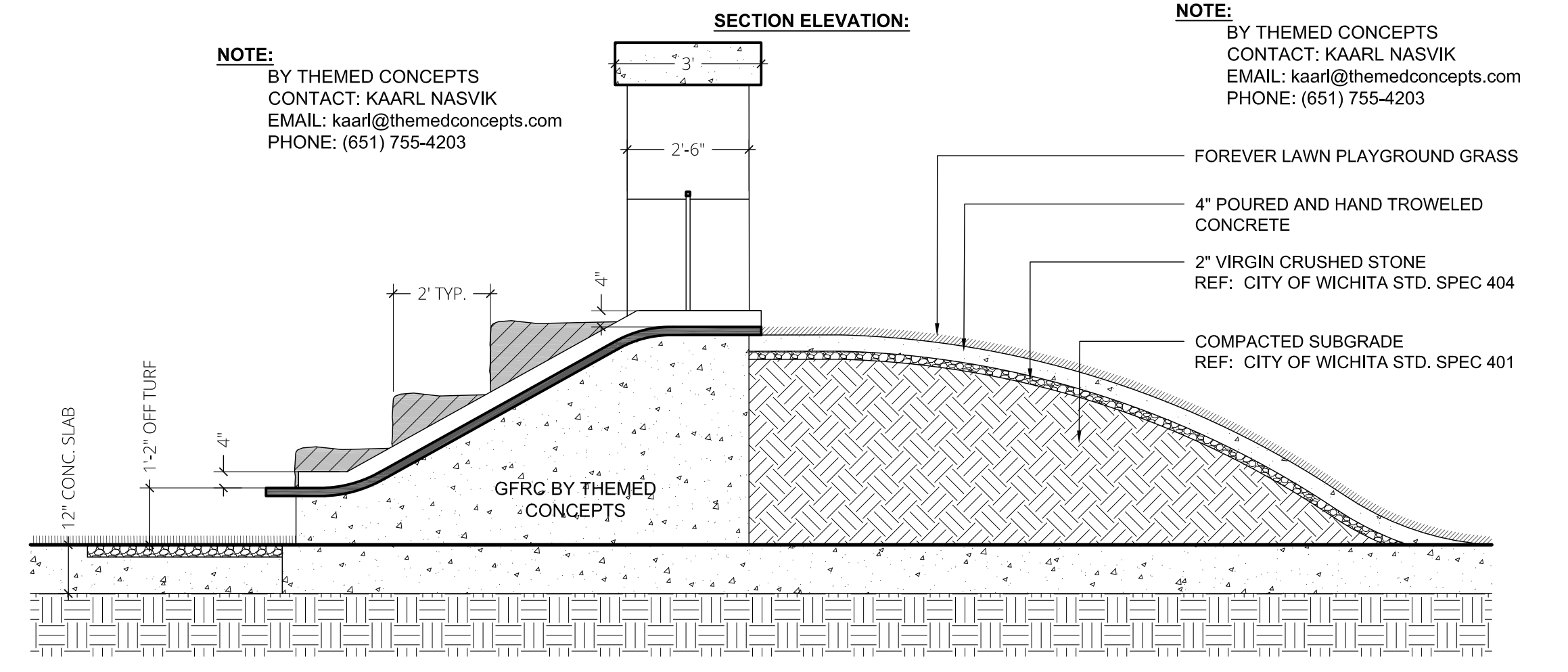
7 CUSTOM AZTEC TODDLER RUINS
SCALE = NOT TO SCALE

NOTE:
BY THEMED CONCEPTS
CONTACT: KAARL NASVIK
EMAIL: kaarl@themedconcepts.com
PHONE: (651) 755-4203

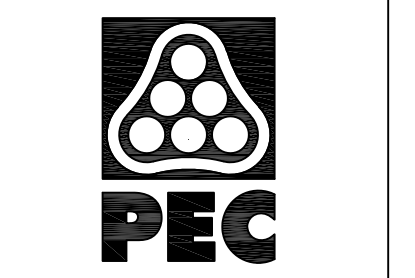
FOREVER LAWN PLAYGROUND GRASS
4" POURED AND HAND TROWELED CONCRETE
2" VIRGIN CRUSHED STONE
REF: CITY OF WICHITA STD. SPEC 404
COMPACTED SUBGRADE
REF: CITY OF WICHITA STD. SPEC 401



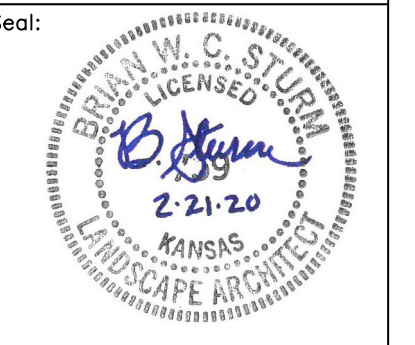
8 CUSTOM AZTEC TEMPLE SLIDE
SCALE = NOT TO SCALE



NOTE:
BY THEMED CONCEPTS
CONTACT: KAARL NASVIK
EMAIL: kaarl@themedconcepts.com
PHONE: (651) 755-4203



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



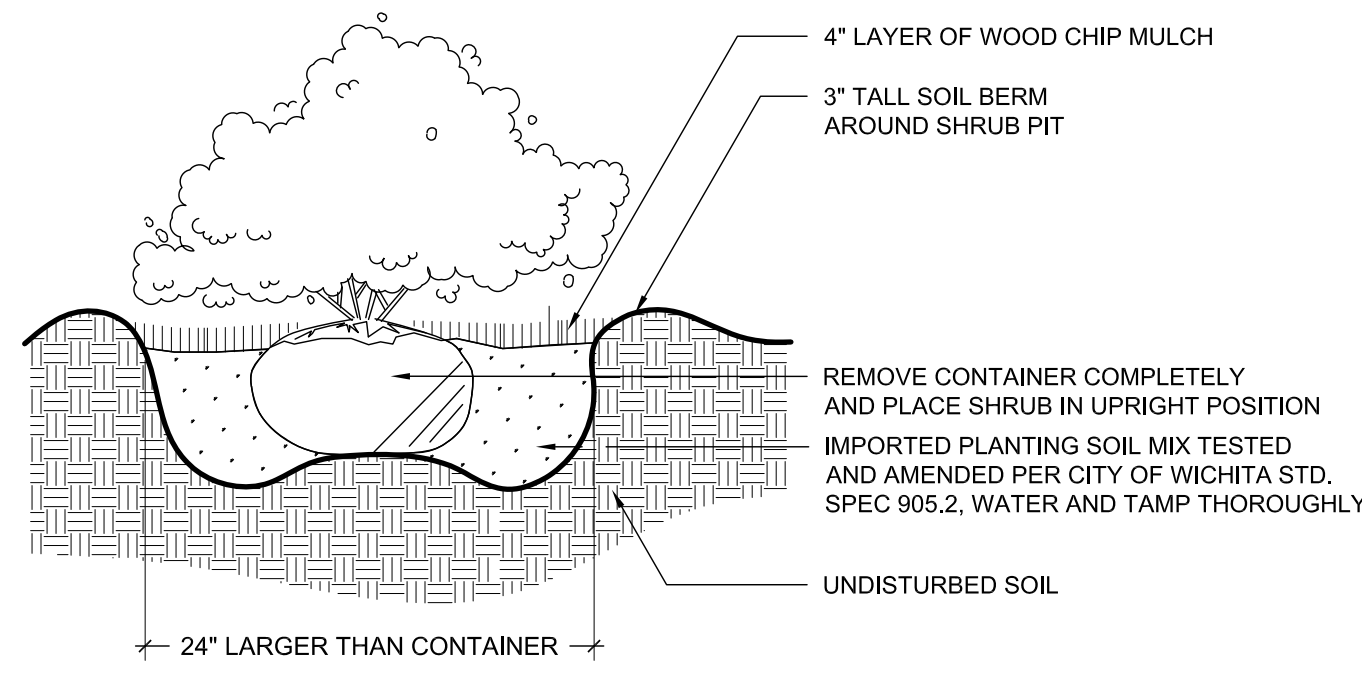
Brian Sturm—LSCP, ARCH.
LICENSE #759

Date: 02-21-20 Job #: 18-512

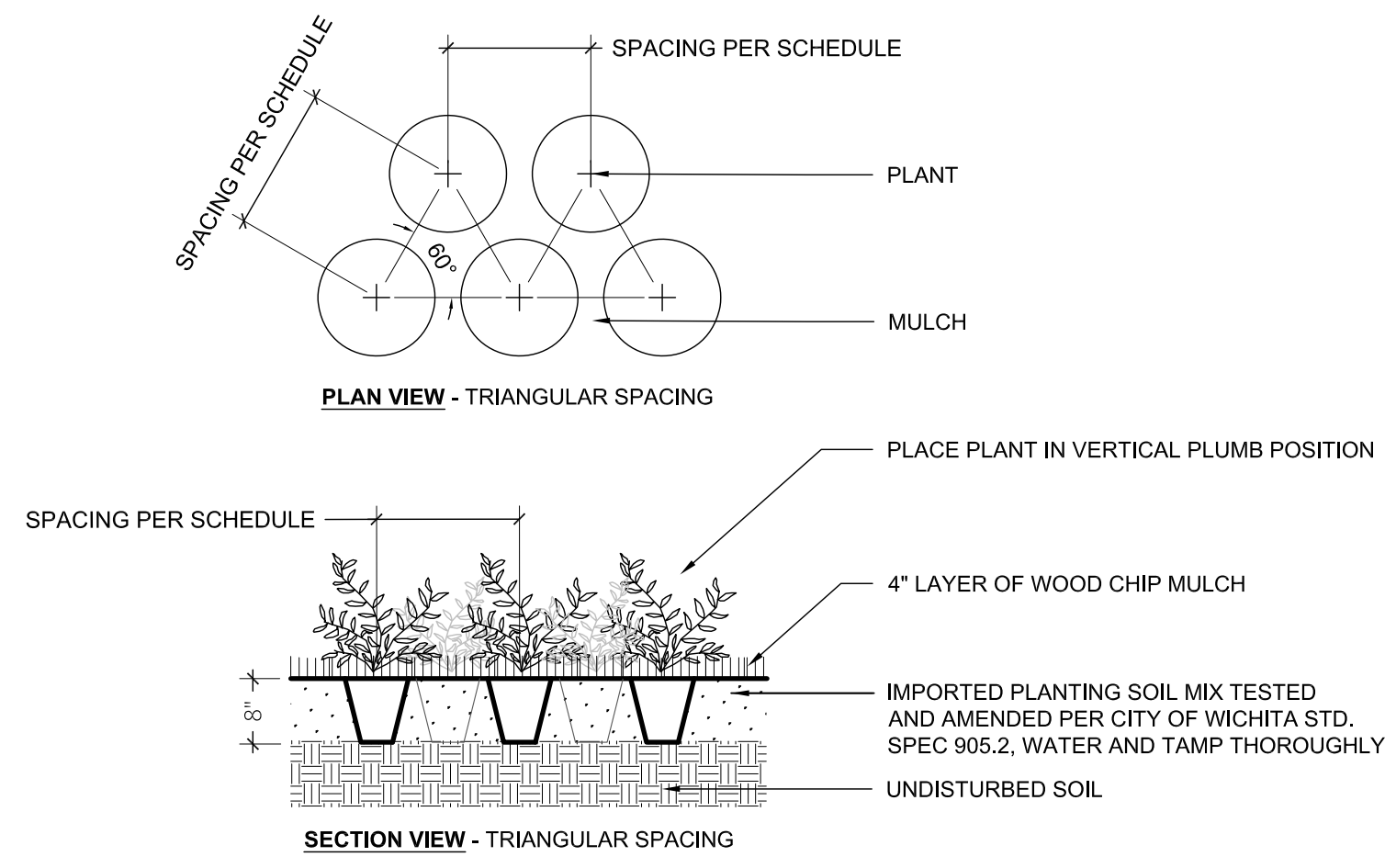
Drawn: Checked:

Issue: CONSTRUCTION DOCUMENTS

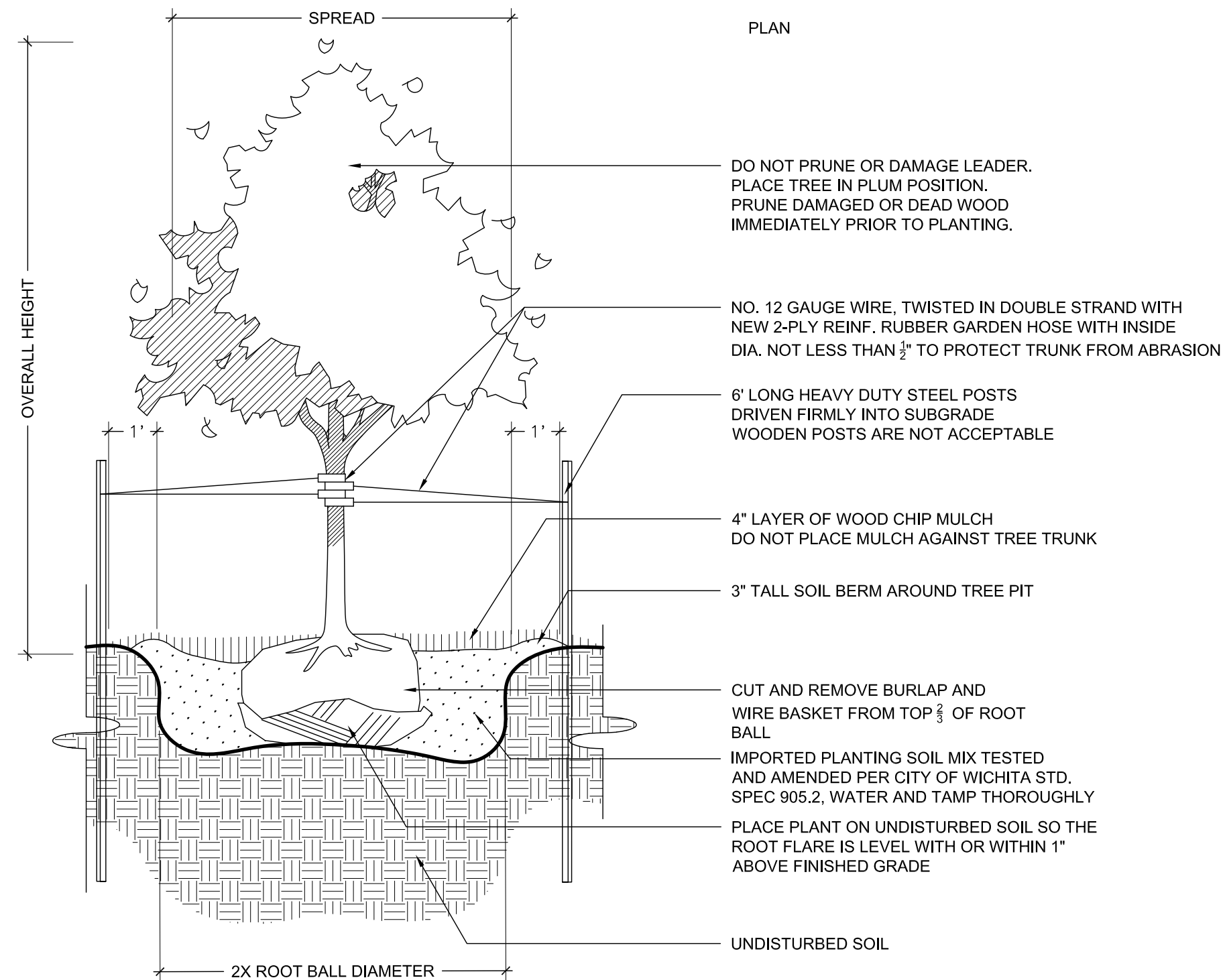
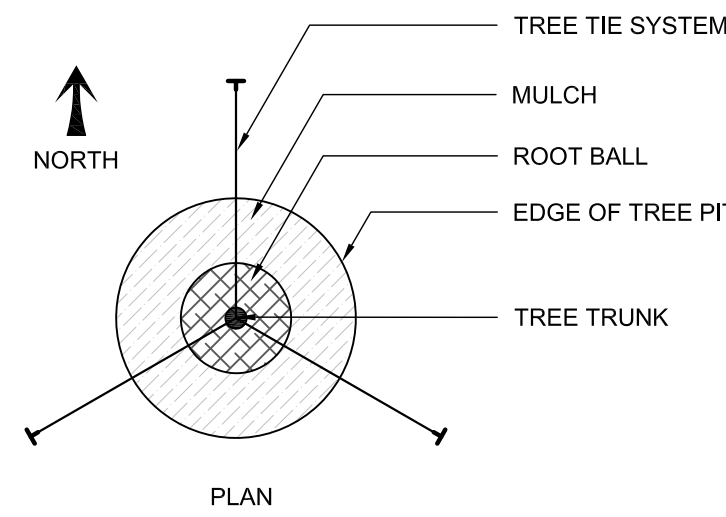
SITE DETAILS



1 SHRUB PLANTING
SCALE = 1/2" = 1'-0"

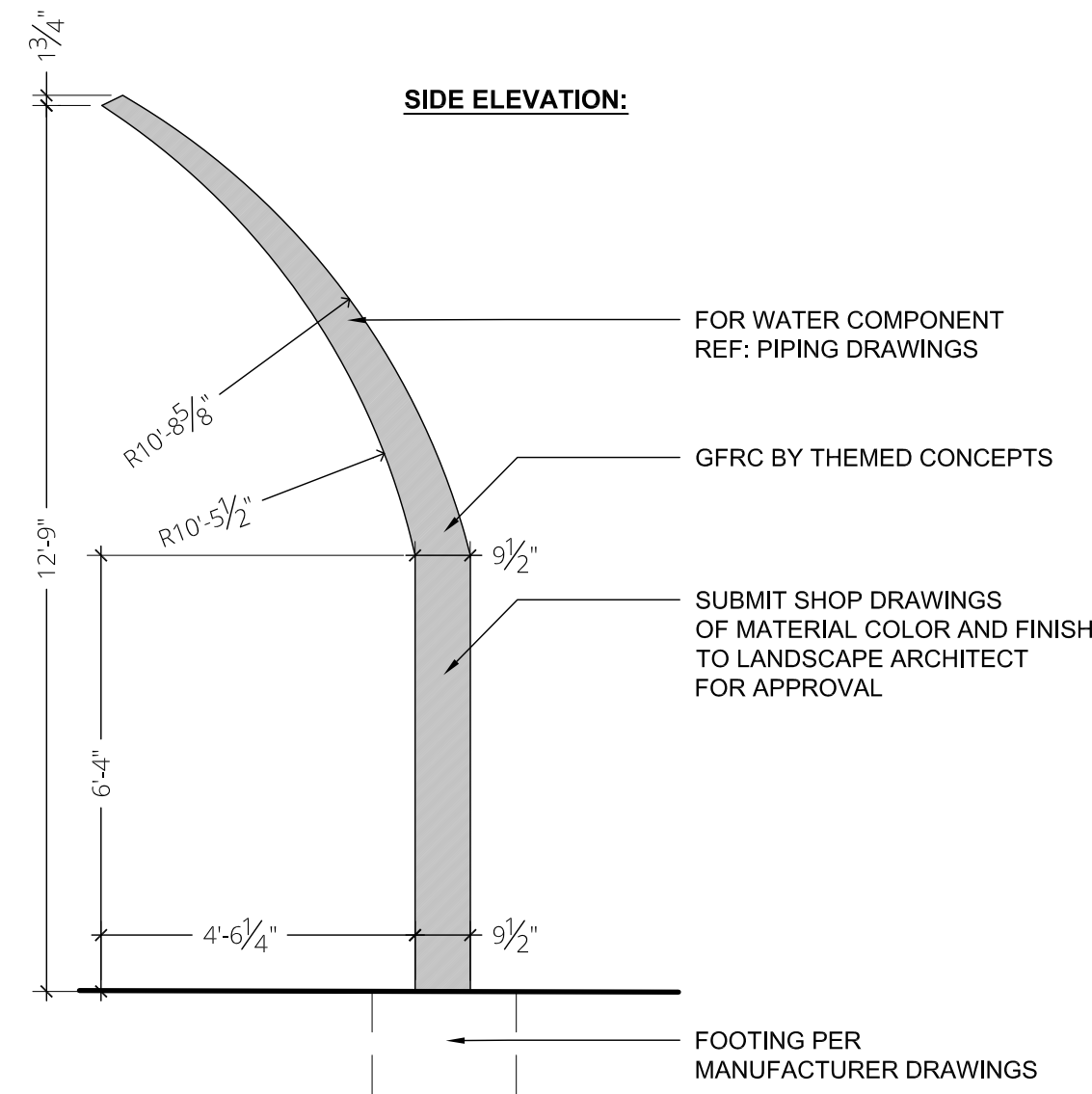


2 PERENNIAL PLANTING
SCALE = 1/2" = 1'-0"

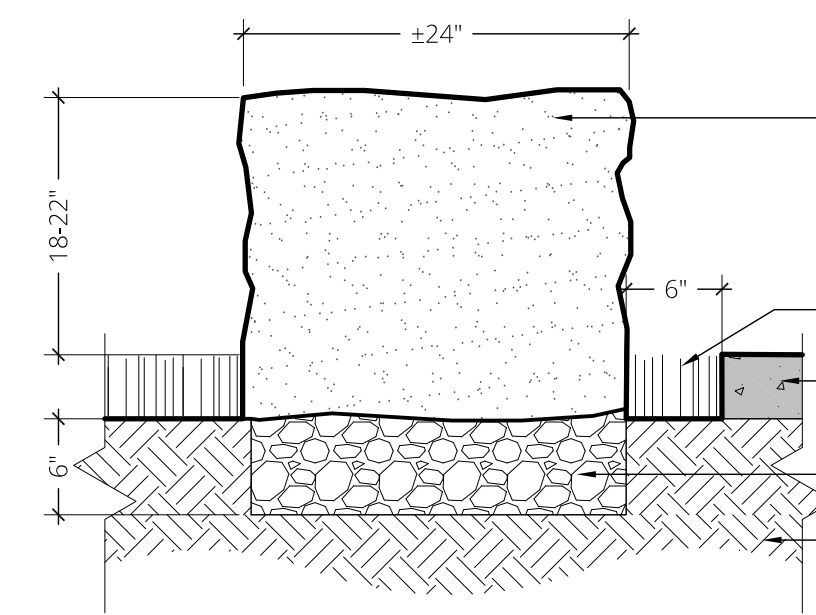
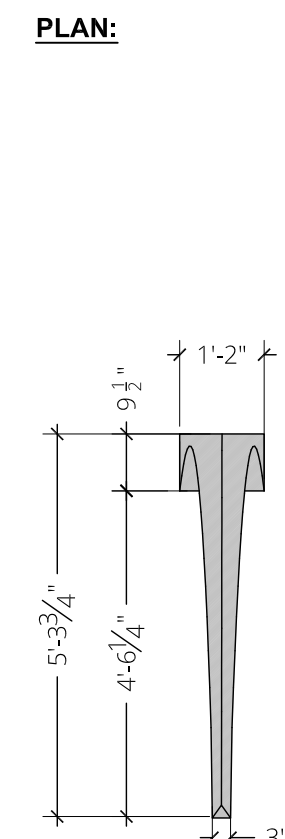


3 DECIDUOUS TREE PLANTING
SCALE = 3/8" = 1'-0"

NOTE:
BY THEMED CONCEPTS
CONTACT: KAARL NASVIK
EMAIL: kaarl@themedconcepts.com
PHONE: (651) 755-4203



4 CUSTOM AZTEC SPRAY TOWER
SCALE = 3/8" = 1'-0"

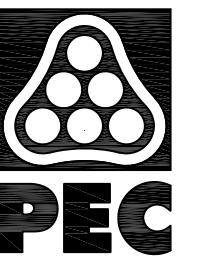


NOTE:
BROOKRIDGE LIMESTONE SLAB
BY HOUSE OF ROCKS
CONTACT: MICKEY HIGDON
EMAIL: mickey@thehouseofrocks.com
PHONE: (913) 432-5990

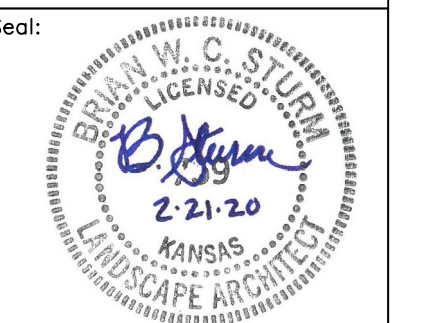
APPROVED EQUAL:
SILVERDALE QUALITY STONE
PHONE: (620) 442-5750

BROOKRIDGE LIMESTONE SLAB:
HEIGHT TO BE ±24"; LENGTH TO BE ±36" MIN.; SPLIT SLAB AS NEEDED TO ACHIEVE UNIFORM ±24" WIDTH
4" LAYER OF WOOD CHIP MULCH
REF: CITY OF WICHITA STD. SPEC 905
STD. CONCRETE PAVEMENT
COLOR PER PLANS
REF: DETAIL 1/L500
VIRGIN CRUSHED STONE
REF: CITY OF WICHITA STD. SPEC 404
COMPACTED SUBGRADE
REF: CITY OF WICHITA STD. SPEC 401

5 LIMESTONE BLOCK SEATING IN WOOD CHIP MULCH
SCALE = 1" = 1'-0"



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Brian Sturm - L.S.C.P. ARCH.
LICENSE #759

Date: 02-21-20 Job #: 18-512

Drawn: Checked:

Issue: CONSTRUCTION DOCUMENTS

SITE
DETAILS

L501

SPRAY GROUND AREA KEY NOTES

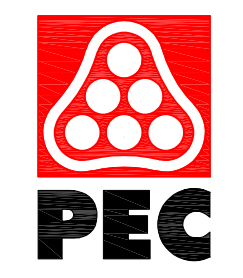
- 1 Existing parking
- 2 Existing sidewalk
- 3 Existing fence with existing concrete strip
- 4 Existing pool deck
- 5 Existing light pole
- 6 Existing electric utility
- 7 Existing sanitary sewer utility
- 8 Existing storm sewer utility
- 9 Existing/renovated bathhouse
- 10 Existing/renovated filter area
- 11 Existing pool outline
- 12 Existing sunshade and footings
- 13 Existing pool demo and backfill ~ See Detail A-SP-PM2
- 14 "Vortex Drain" ~ See Detail B-SP-PM2
- 15 "Vortex Jet Stream No. 2" ~ See Detail C-SP-PM2, and Sheet SP-PM1 data for quantity
- 16 "Vortex Water Jelly No. 1" ~ See Detail C-SP-PM2, and Sheet SP-PM1 data for quantity
- 17a "Vortex Ballard Activator" ~ See Detail D-SP-PM2
- 17b Rain and wind sensors connected to Vortex controller
- 18 Area drain - landscape area ~ See Detail E-SP-PM2
- 19 (not used)
- 20 Connect new drains to existing storm drain pipe ~ Verify Inv. El.
- 21 Off-season drain valve and valve box with lid ~ Provide valve operator T-handle
- 22 Deck area drain with 5" diameter strainer
- 23 Concrete deck ~ See Detail F-SP-PM2
~ Deck and drain elevations ~ Deck slopes shall be 1% min. / 2% max.
~ Water shall not be allowed to pond in any location
- 24 Concrete sidewalk ~ See Detail F-SP-PM2
- 25 Concrete deck at existing wading pool
- 26 Construction joint ~ See Detail F-SP-PM2
- 27 Expansion joint ~ See Detail F-SP-PM2
- 28 Isolation joint ~ See Detail F-SP-PM2
- 29 Saw cut ~ See Detail F-SP-PM2
- 30 Valley line ~ No joint
- 31 Concrete deck at existing concrete deck ~ See Detail G-SP-PM2
- 32 Underdrain ~ See Detail H-SP-PM2
- 33 Entrance fence and gates
~ 6'-0" tall, flush bottom, flush top
~ (2) pair of 7'-0" wide double gates
~ Surface mount with S.S. hardware
~ Gate shall remain in fixed open position when facility is open to the public
~ Provide EXIT sign on stationary post
- 34 Aztec Guard ~ See Landscape Architect Sheets
- 35 Aztec Toddler Ruins
~ Provide valve access
~ Horizontal waterfall
~ 2" discharge pipe
~ Provide ball valve
~ Provide diverter on end of discharge pipe
~ 24" wide waterfall
~ Vertical waterfall
~ 2" discharge pipe
~ Provide ball valve
~ (16) 1/4" orifices at 3" spacing
~ Water runnel
~ 2" discharge pipe
~ Provide ball valve
~ Runnel shall be 18" wide and 0.5% slope
~ See Landscape Architect Sheets, and Sheet SP-PM1 data for quantity
- 36 Aztec Temple Slide ~ See Landscape Architect Sheets
- 37 Aztec Spray Tower
~ Provide "Column Jet" nozzle
~ See Landscape Architect Sheets, and Sheet SP-PM1 data for quantity
- 38 Deck finish ~ See Landscape Architect Sheets
- 39 Deck finish ~ See Landscape Architect Sheets
- 40 Artificial turf ~ See Landscape Architect Sheets
- 41 Landscape area ~ See Landscape Architect Sheets
- 42 4'-0" Wide single gate
~ Gate shall remain in fixed open position when facility is open to the public
~ Provide EXIT sign on stationary post

ABBREVIATIONS

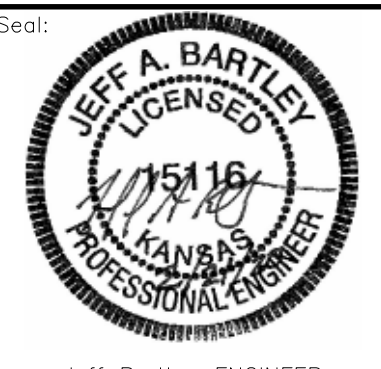
&	And
@	At
.	Degree
∅	Diameter
'	Feet
"	Inches
#	Number
w/	With
w/o	Without
ACI	American Concrete Institute
Add.	Additional
A.F.F.	Above finish floor
Approx.	Approximately
Arch.	Architectural
BFV	Butterfly valve
Blgd.	Building
BM	Benchmark
Clr.	Clear
CMU	Concrete masonry unit
Ctr.	Center
Det.	Detail
Dia.	Diameter
Diag.	Diagonal
Dim.	Dimension
DIP	Ductile iron pipe
E.F.	Each face
E.W.	Each way
Ea.	Each
El.	Elevation or elbow
Elec.	Electrical
Eq.	Equal
Exp.	Expansion
Fipt	Female iron pipe thread
FRP	Fiberglass reinforced plastic
Ft.	Feet
Galv.	Galvanized
GPM	Gallons per minute
H.C.	Handicap
Hi.	High
HOA	Hand Off Automatic
Horiz./H.	Horizontal
HSS	Hollow steel section
I.D.	Inside diameter
Inv. El.	Invert elevation
Jt.	Joint
Lo.	Low
Long.	Longitudinal
Max.	Maximum
Mfr./Mfr.	Manufacturer
Min.	Minimum
Misc.	Miscellaneous
NEC	National Electrical Code
NEMA	National Electrical Manufacturers Association
N.I.C.	Not in contract
N.T.S.	Not to scale
O.C.	On center
O.D.	Outside diameter
Pl.	Plate
PSI	Pounds per square inch
PVC	Polyvinyl chloride
R	Radius
Rad.	Radius
RCP	Reinforced concrete pipe
Rebar	Reinforcing concrete pipe
Recirc.	Recirculation
Ref.	Reference
Reinf.	Reinforcing
Req'd	Required
S.S.	Stainless steel
Sch	Schedule
SDR	Standard dimension ratio
S.F.	Square feet
Soc	Socket
Sq.	Square
Struct.	Structural
T&B	Top and bottom
TDH	Total dynamic head
Thru	Through
Thru	Through
Thru	Through
Trans.	Transverse
Typ.	Typical
Vert./V.	Vertical

SYMBOLS

	Construction Joint
	Expansion Joint
	Isolation Joint
	Saw Cut
	Valley / Ridge Line
Detail	Detail Callout DETAIL NAME Detail Scale Detail Letter Sheet
Section Cut	Section Cut
Depth/warning marker or note	



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Jeff Bartley - ENGINEER
LICENSE #15116

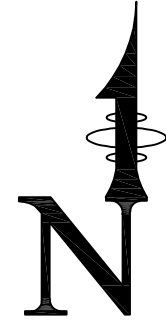
Date: 02-21-20 Job #: 18-512

Drawn: SRS Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

SPRAY GROUND
KEY NOTES
AND
DATA

SP-P0



SPRAY GROUND AREA DATA
 Spray Ground Area
 (all area inside fence) 17,335 S.F.

waters edge
 AQUATIC DESIGN

11205 W. 79th St.
 Lenexa, KS 66214
 L 913.438.4338
 www.WeDesignPools.com

Kansas STATE CERTIFICATE
 OF AUTHORITY #E-990



landworks
 studio

ARCHITECTURAL
URBAN PRAIRIE
 COLLABORATIVE, P.C.



WICHITA, KANSAS
 Spray Ground
 EVERGREEN PARK



Jeff Bartley - ENGINEER
 LICENSE #15116

Date: 02-21-20 Job #: 18-512

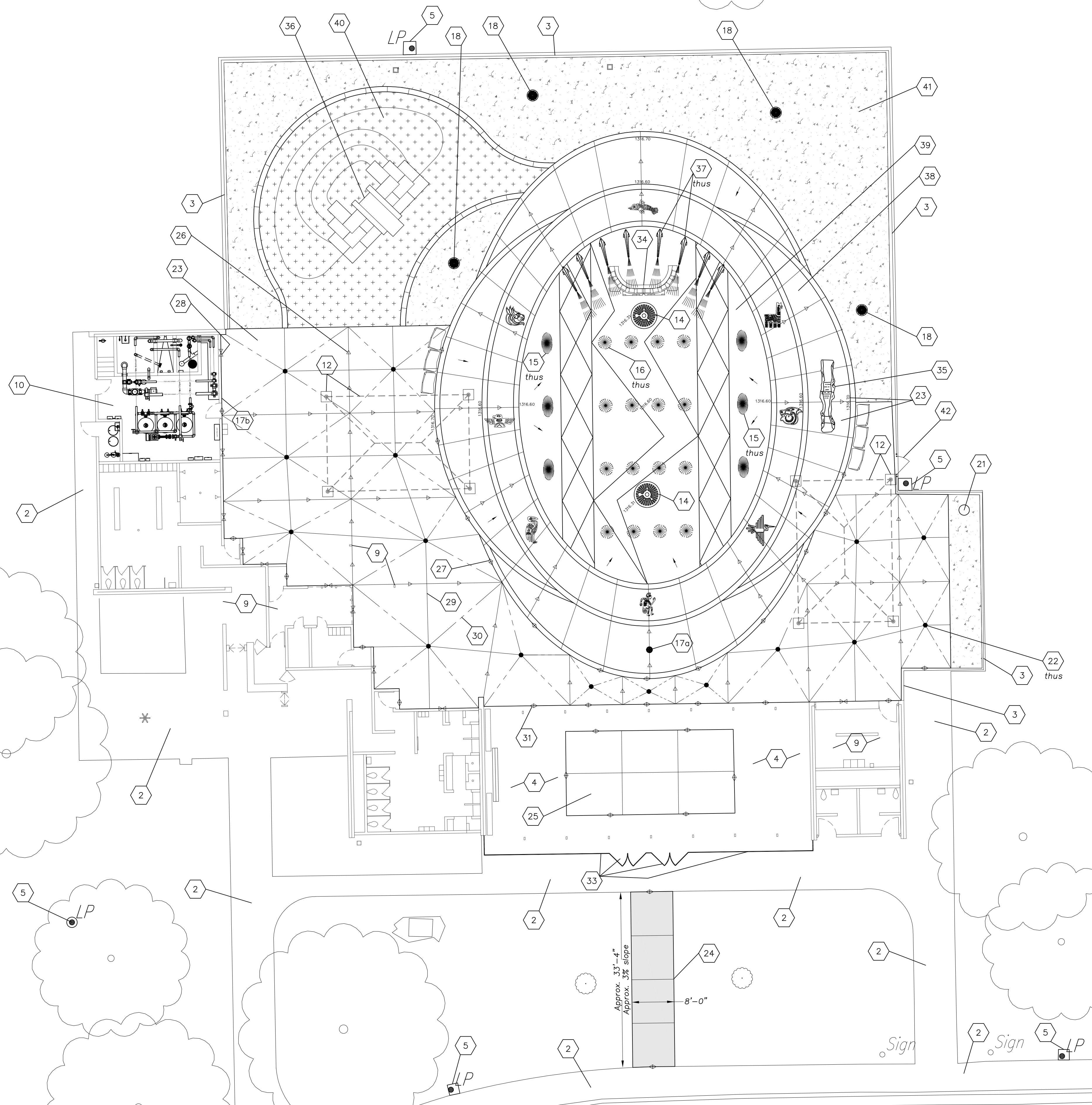
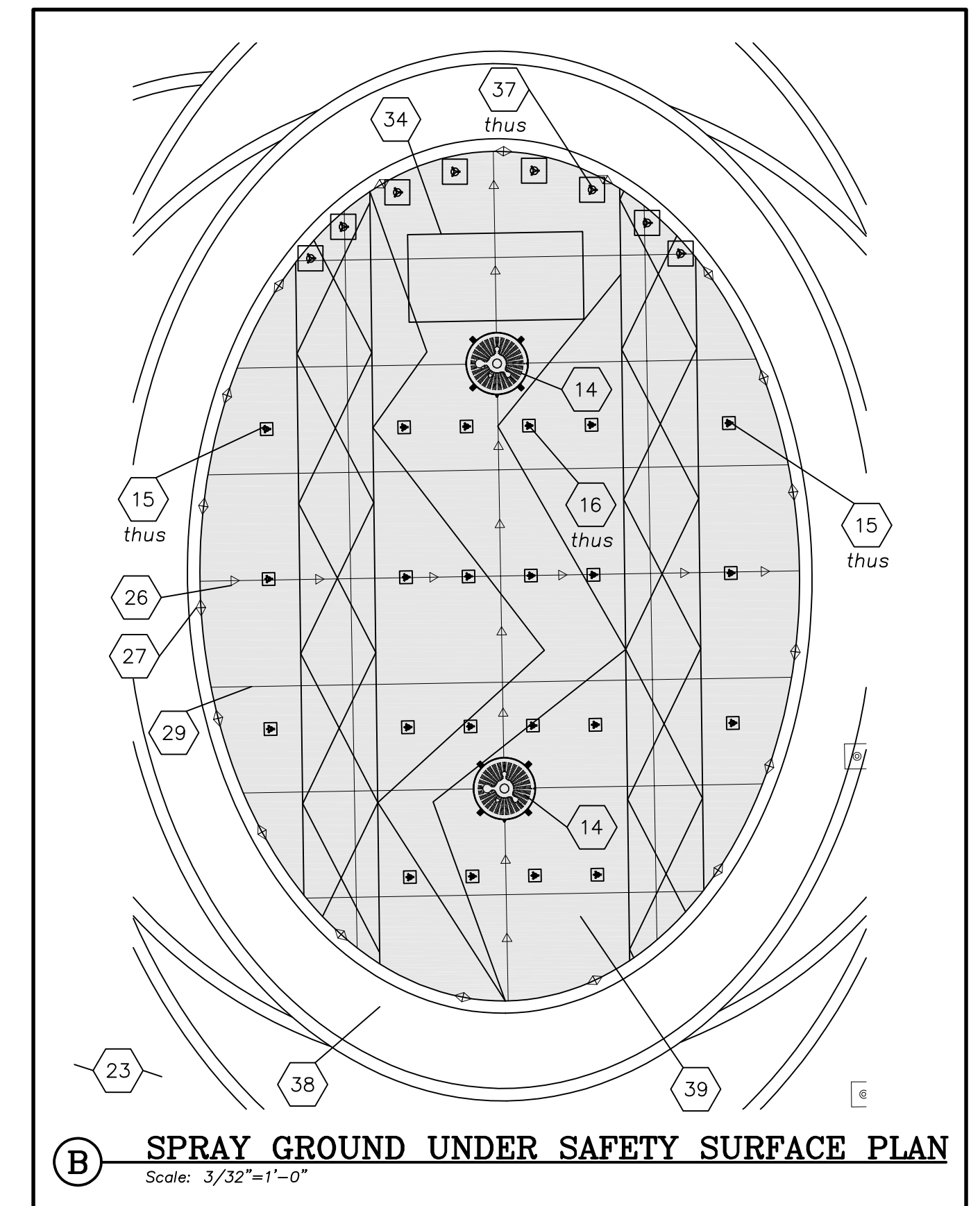
Drawn: SRS Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

**SPRAY GROUND
 PLAN**

SP-P1

Water's Edge Aquatic Design
 © 2020

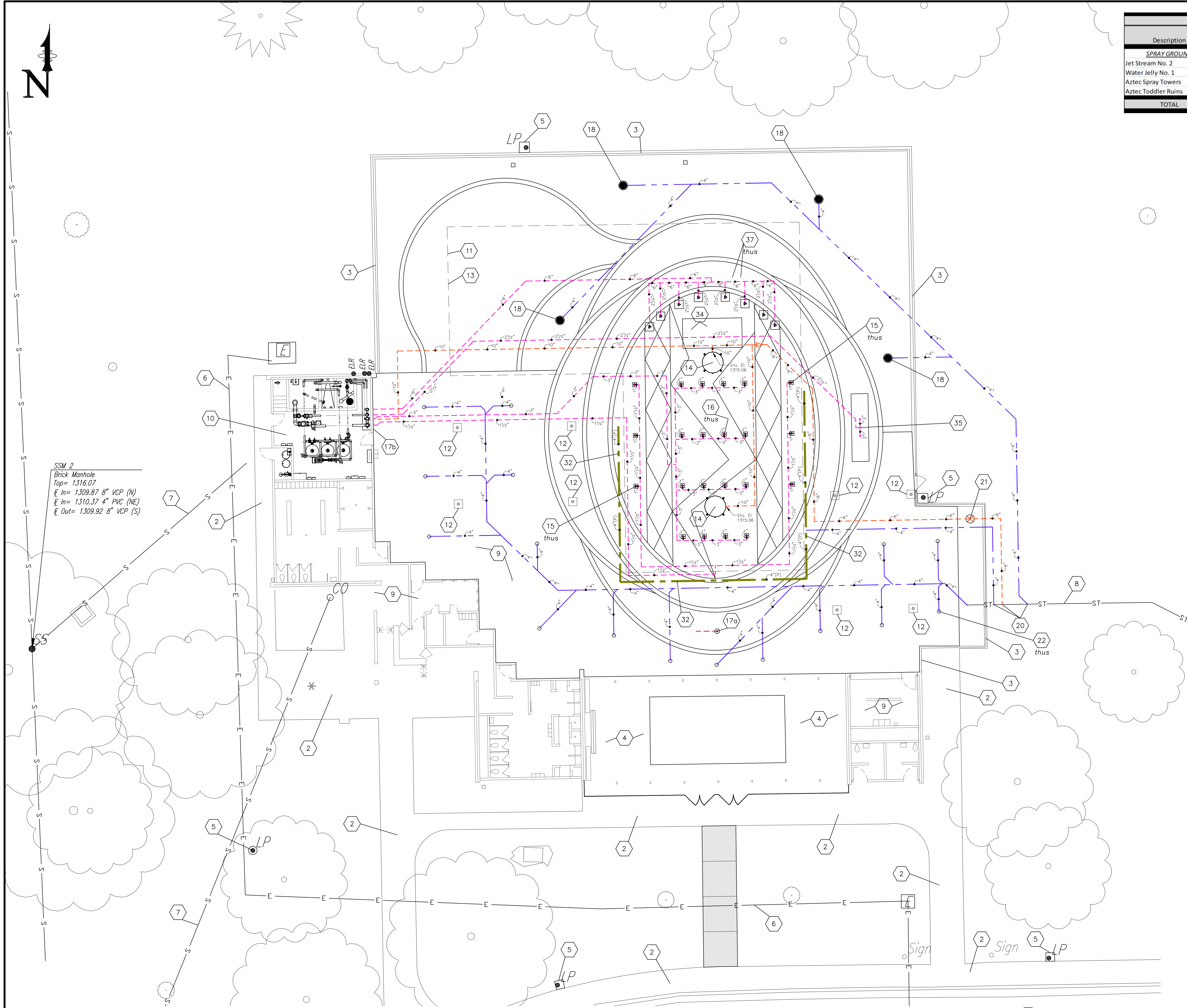


EGRESS CAPACITY CALCULATION - EVERGREEN					
Applicable Code:	2012 IBC	Max Capacity based upon # exits			
# of Exit Discharges:	2	Exits	Max. Occupants		
Total Egress Capacity:	1,440 occupants	1	49		
<i>Note: Capacity is limited by number of exit discharges</i>					
Egress Capacity Factor	0.2 in. / occupant	2	500		
Limit based upon # of exits	1,000 occupants	3	1,000		
Max. travel distance	180 ft.				
EGRESS LOCATIONS					
	Width, in.	No.	Total Width, in.	Egress Factor (in./occ.)	Egress Capacity
Bathhouse Entry/Exit	36	2	72	0.2	360
New Main Entry Gates	84	2	158	0.2	840
East Gate	48	1	48	0.2	240

0 4' 8' 16' 32'
 3/32" = 1'-0"

A **SPRAY GROUND PLAN**
 Scale: 3/32"=1'-0"

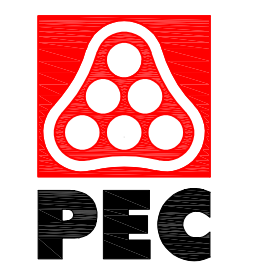
1



SSM 2
 Brick Manhole
 Top= 1316.07
 E In= 1309.87 8" VCP (N)
 E In= 1310.37 4" PVC (NE)
 E Out= 1309.92 8" VCP (S)

WATER FEATURE FLOW DATA					
Description	Flow	Quantity	Total Flow	Pressure	Spray Height
SPRAY GROUND					
Jet Stream No. 2	5 GPM	6	30 GPM	5 PSI	-- Ft.
Water Jelly No. 1	7 GPM	16	112 GPM	5 PSI	-- Ft.
Aztec Spray Towers	70 GPM	8	560 GPM	11 PSI	-- Ft.
Aztec Toddler Ruins	100 GPM	1	100 GPM	PSI	-- Ft.
TOTAL		31	802 GPM		

waters edge
 AQUATIC DESIGN
 11205 W. 79th St.
 Lenexa, KS 66214
 L 913.438.4338
 www.WeDesignPools.com
 Kansas STATE CERTIFICATE
 OF AUTHORITY #E-990



WICHITA, KANSAS
 Spray Ground
 EVERGREEN PARK

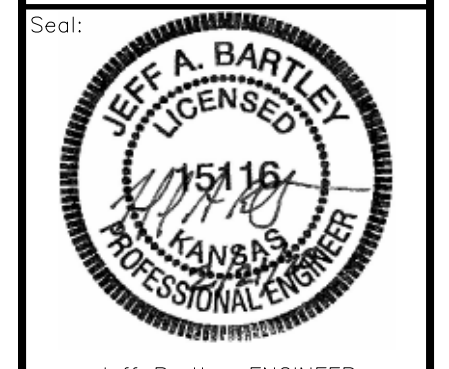


PIPE TYPE NOTES

- Pool system piping (main drain, gutter, recirc features) shall be: Sch 80 PVC
- Underdrain shall be: 4" Rigid ~ Indicated as 4"(RP) perforated PVC
- Drain piping shall be: SDR 26 PVC

GENERAL SHEET NOTES

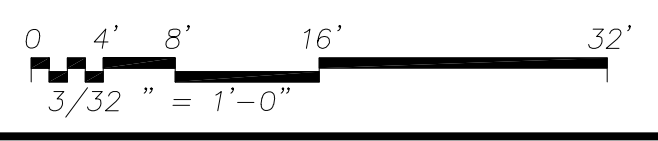
- All pipes shall slope to drain ~ Slope shall be uniform between Inv. El.'s shown, unless otherwise required to prevent piping conflicts
- Inv. El.'s at structures, adjacent to equipment (basket strainers, pumps, etc.), are approximate and may vary per mfr. ~ Contractor shall verify
- All piping through concrete structures shall be cast-in-place ~ No pipe sleeves or coring allowed
- Coordinate all items with piping ~ Example...fence post footings, shade column footings, etc.
- Tee fitting sizes shall match that of the largest connecting pipe size



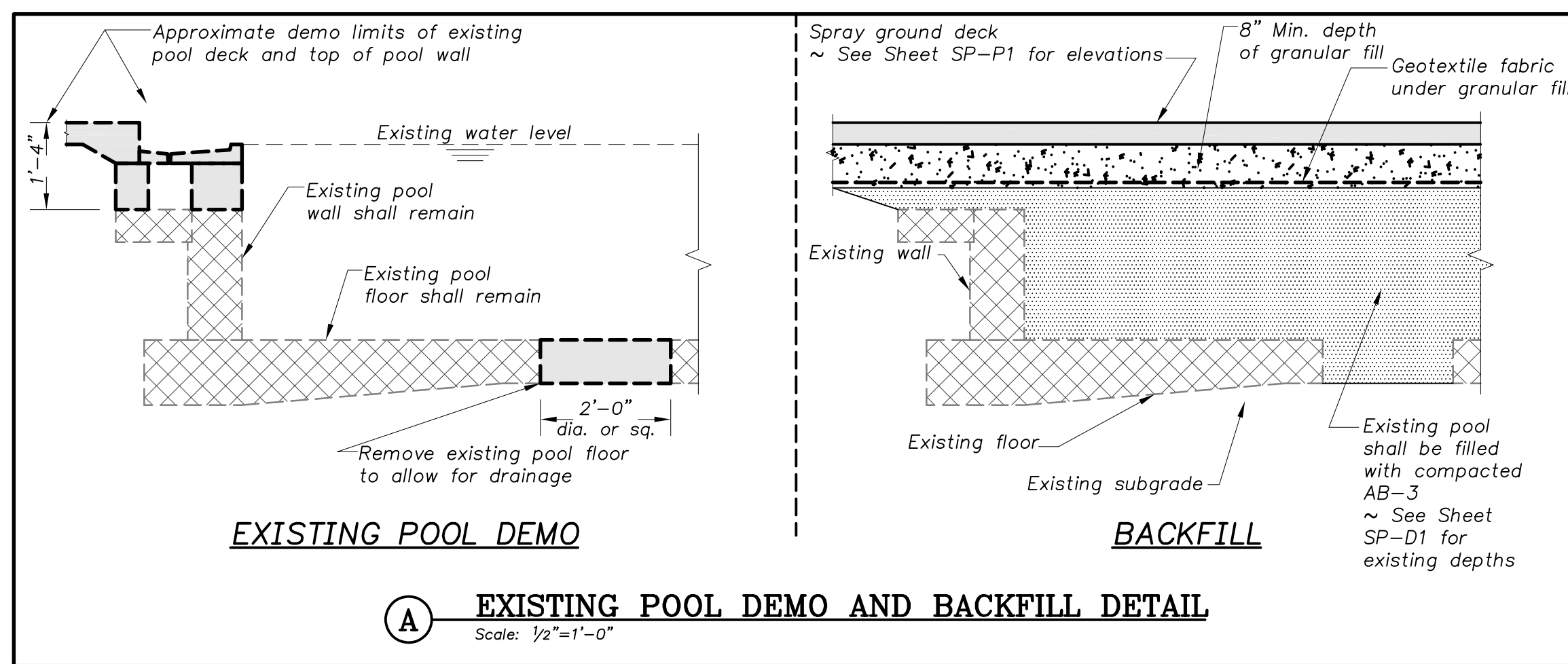
Jeff Bartley-ENGINEER
 LICENSE #15116
 Date: 02-21-20 Job #: 18-512
 Drawn: SRS Checked: JAB

ISSUE: CONSTRUCTION DOCUMENTS
**SPRAY GROUND
 MECHANICAL
 PLAN**

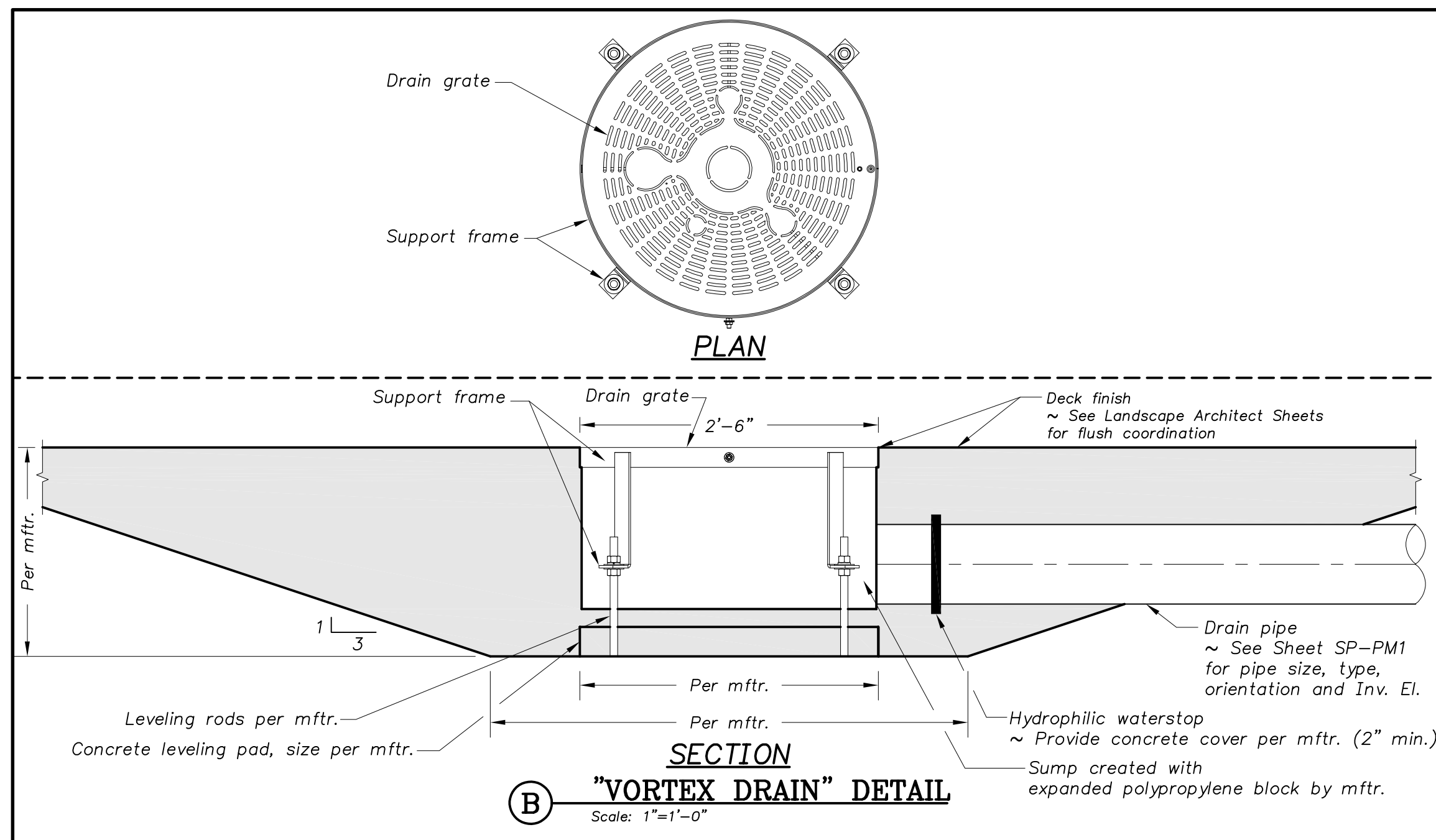
SP-PM1
 Water's Edge Aquatic Design
 © 2020



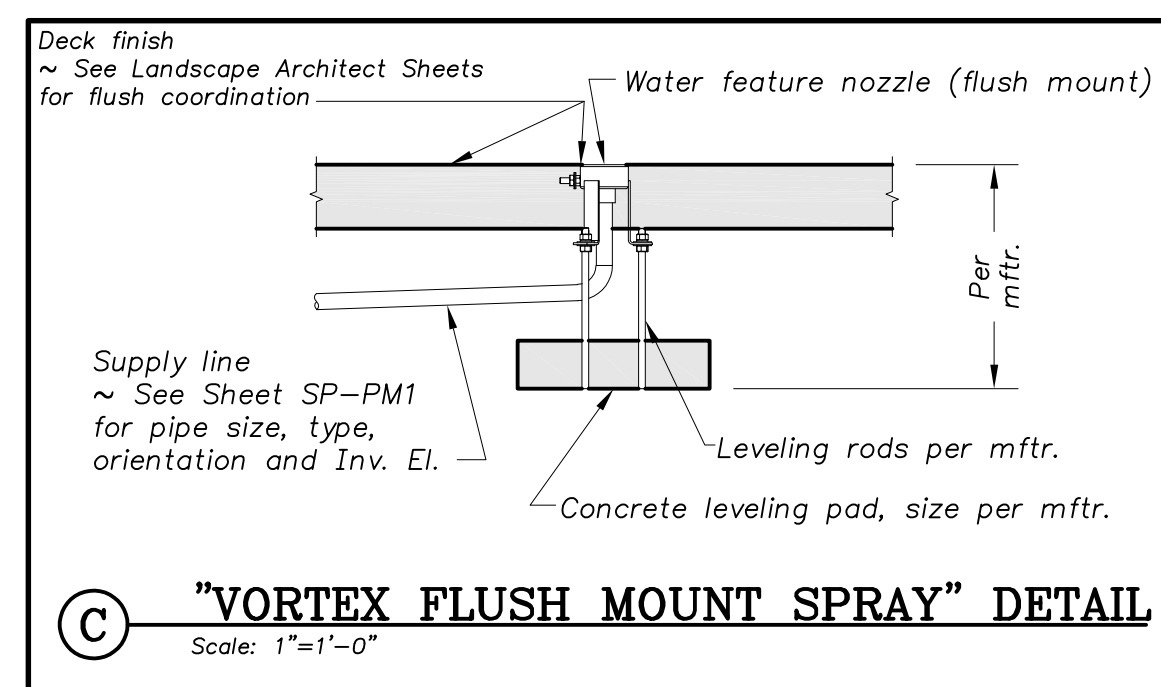
SPRAY GROUND MECHANICAL PLAN
 Scale: 3/32" = 1'-0"



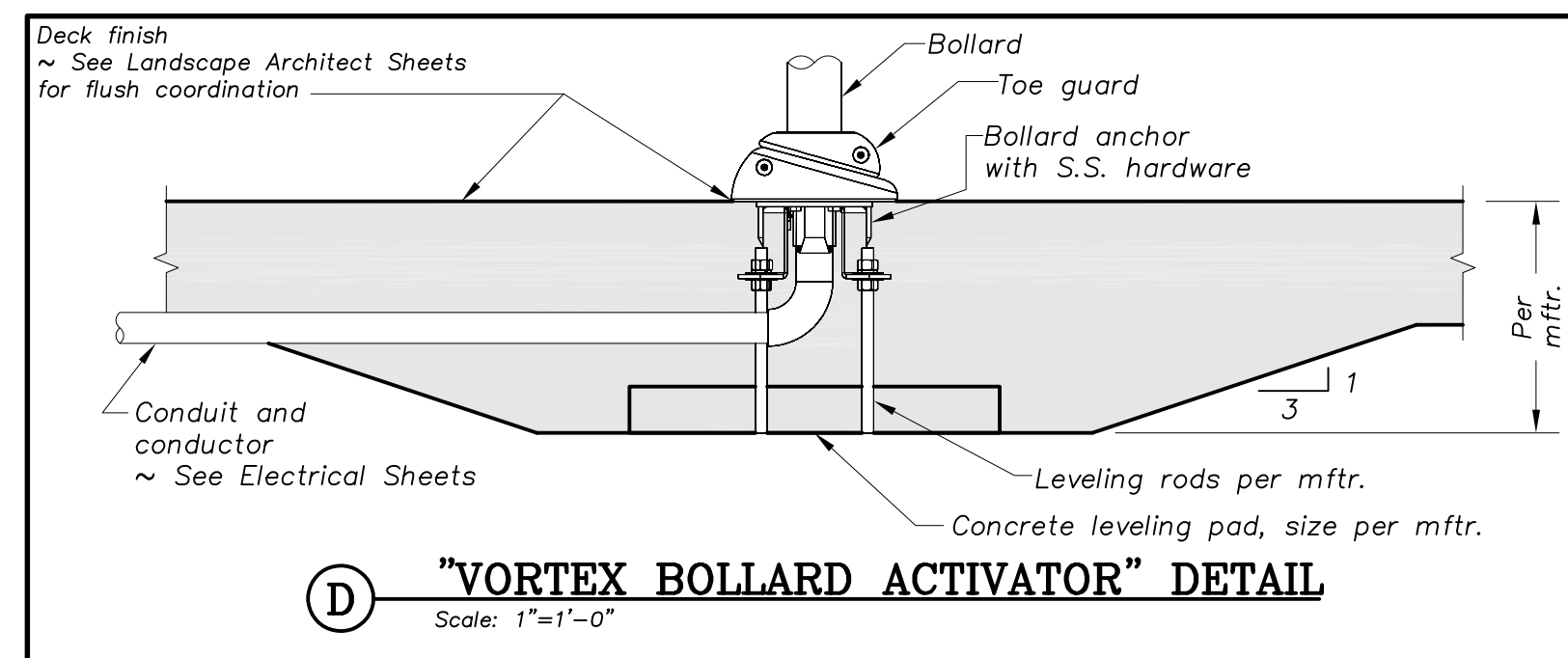
A EXISTING POOL DEMO AND BACKFILL DETAIL
Scale: 1/2"=1'-0"



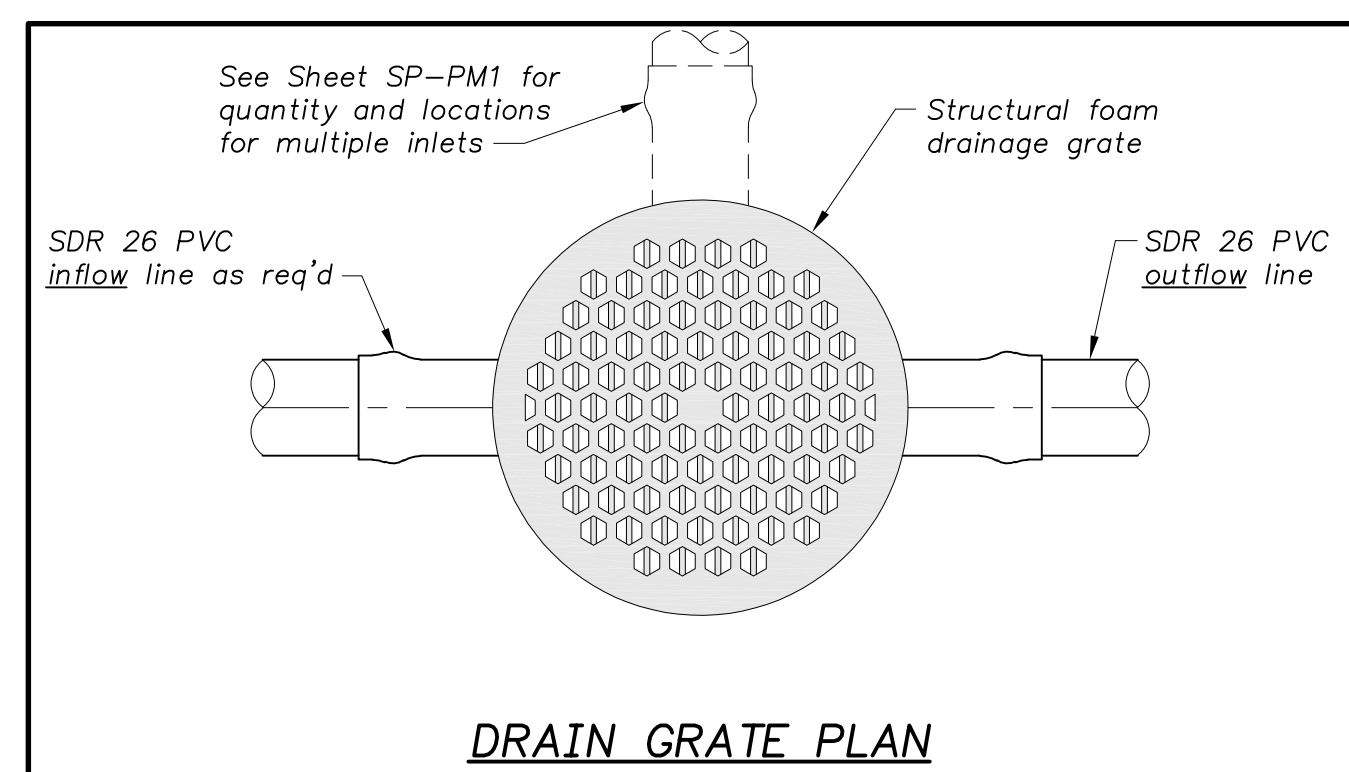
B "VORTEX DRAIN" DETAIL
Scale: 1"=1'-0"



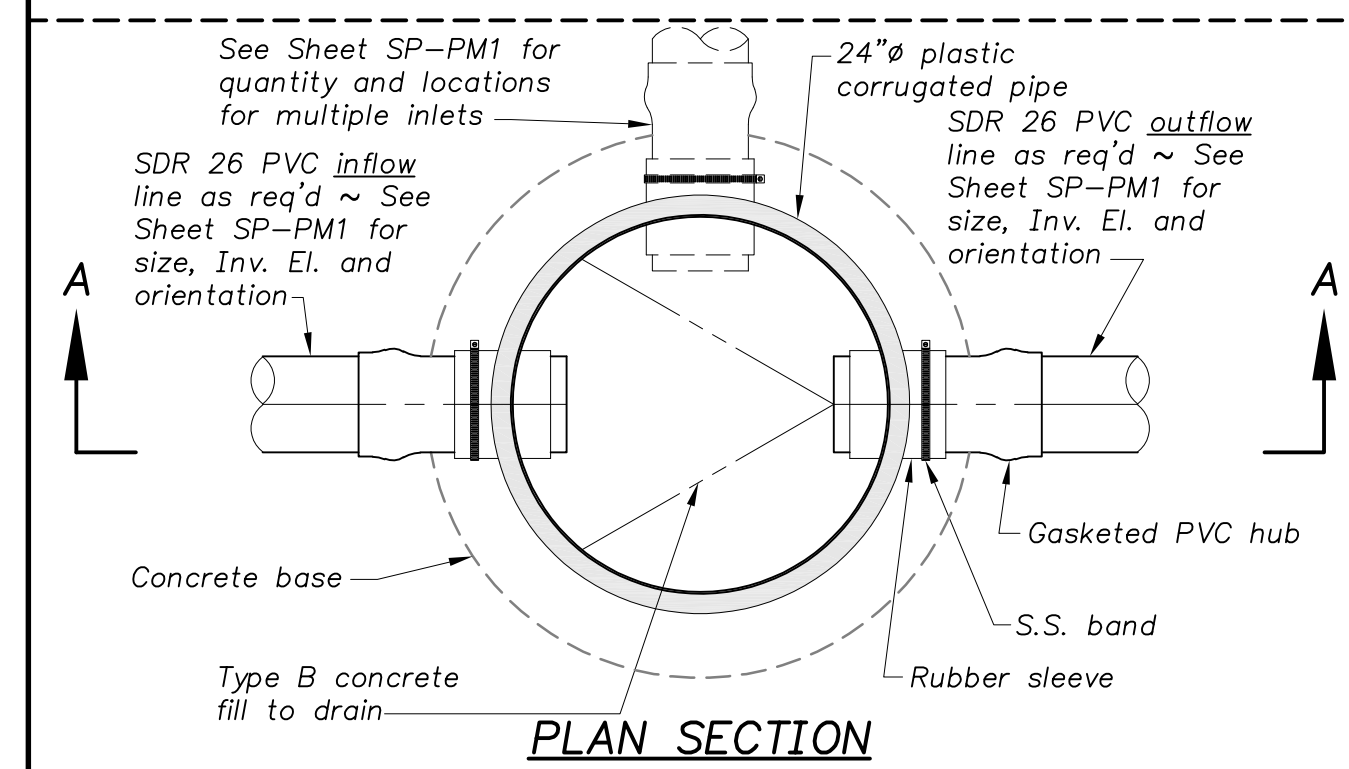
C "VORTEX FLUSH MOUNT SPRAY" DETAIL
Scale: 1"=1'-0"



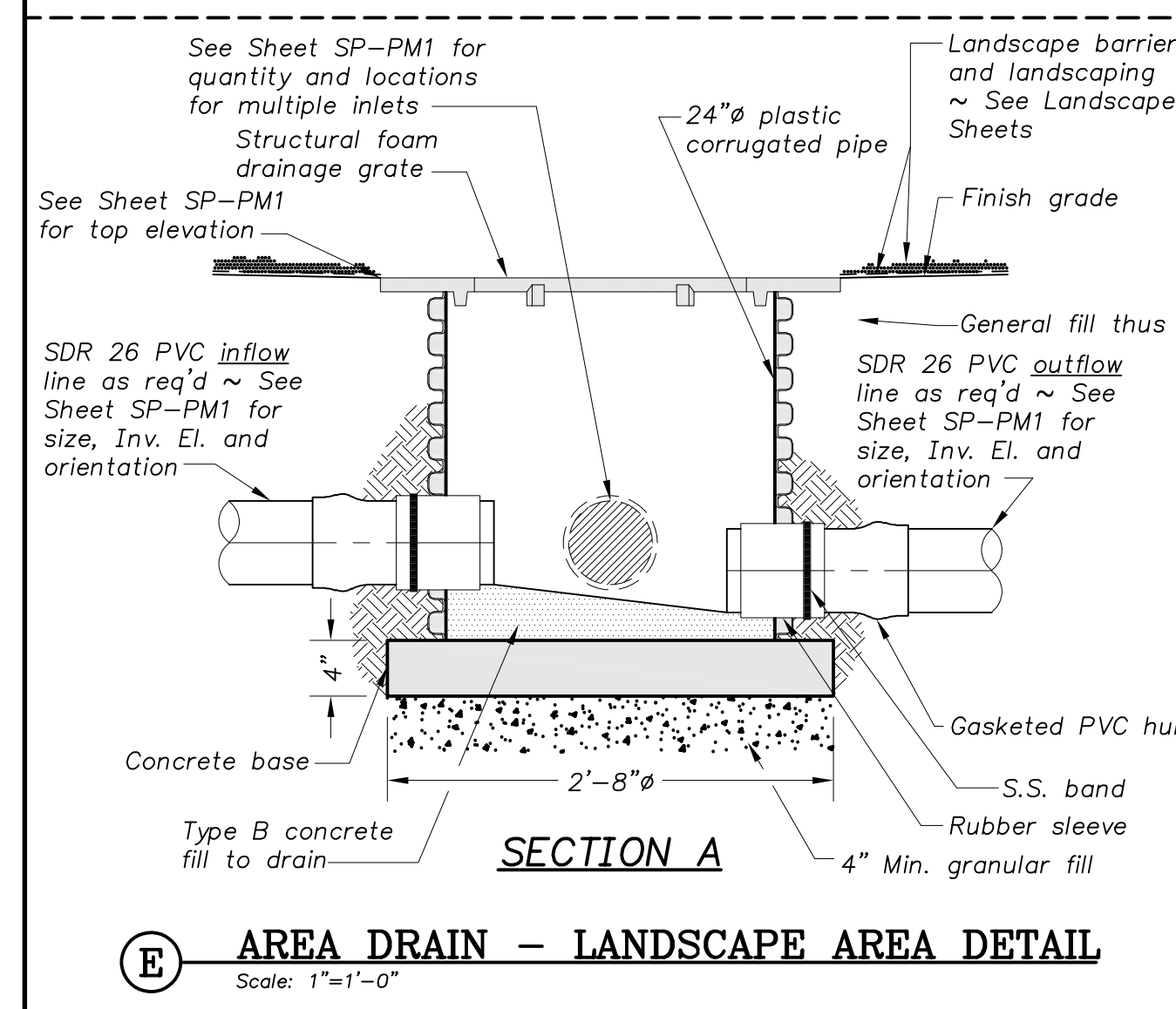
D "VORTEX BOLLARD ACTIVATOR" DETAIL
Scale: 1"=1'-0"



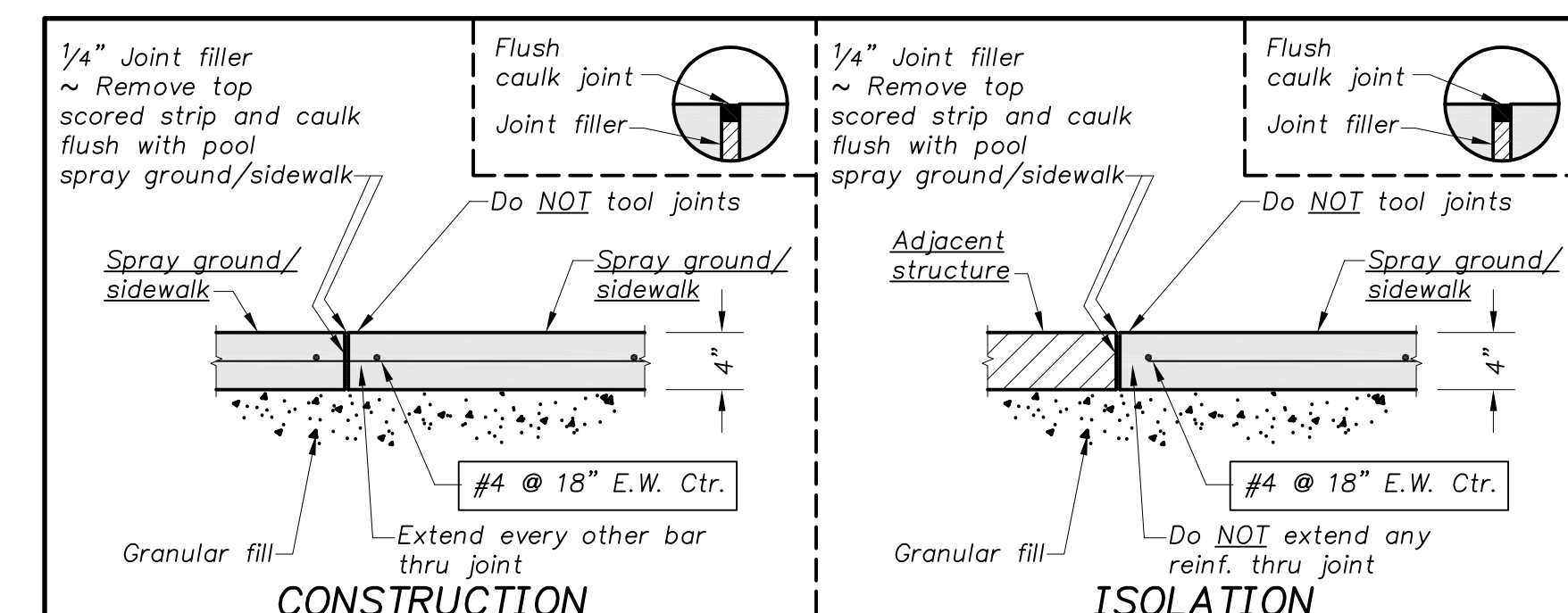
DRAIN GRATE PLAN



PLAN SECTION

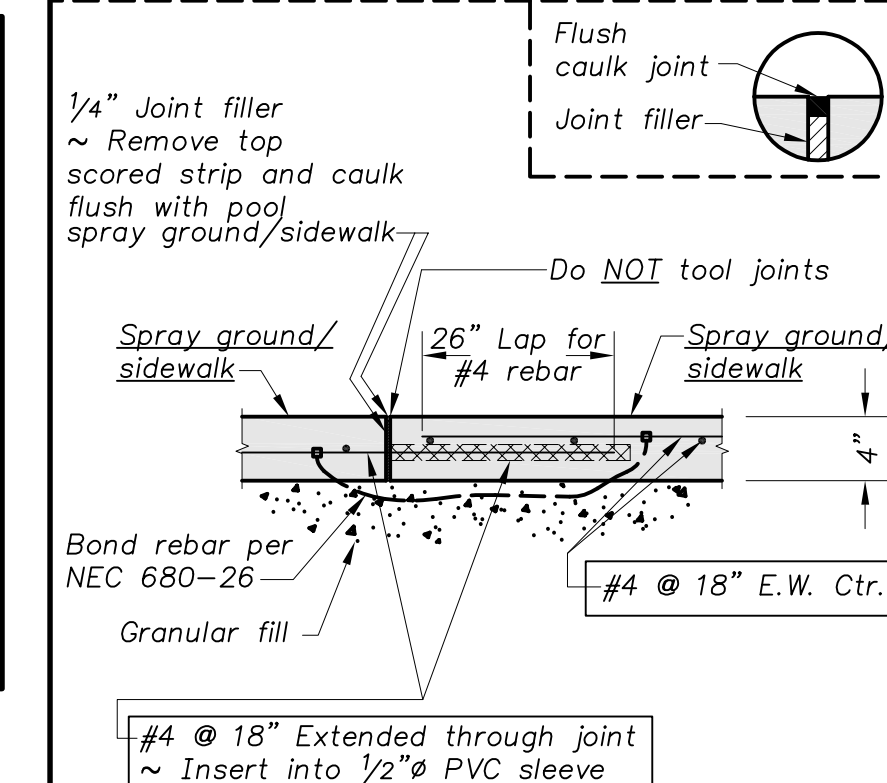


E AREA DRAIN - LANDSCAPE AREA DETAIL
Scale: 1"=1'-0"

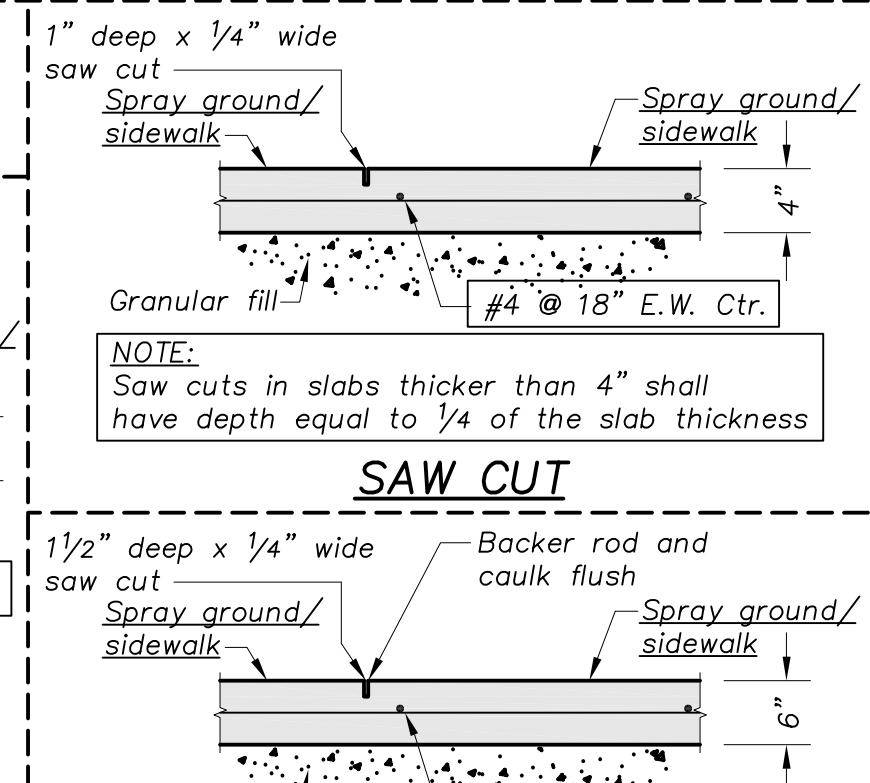


CONSTRUCTION

ISOLATION



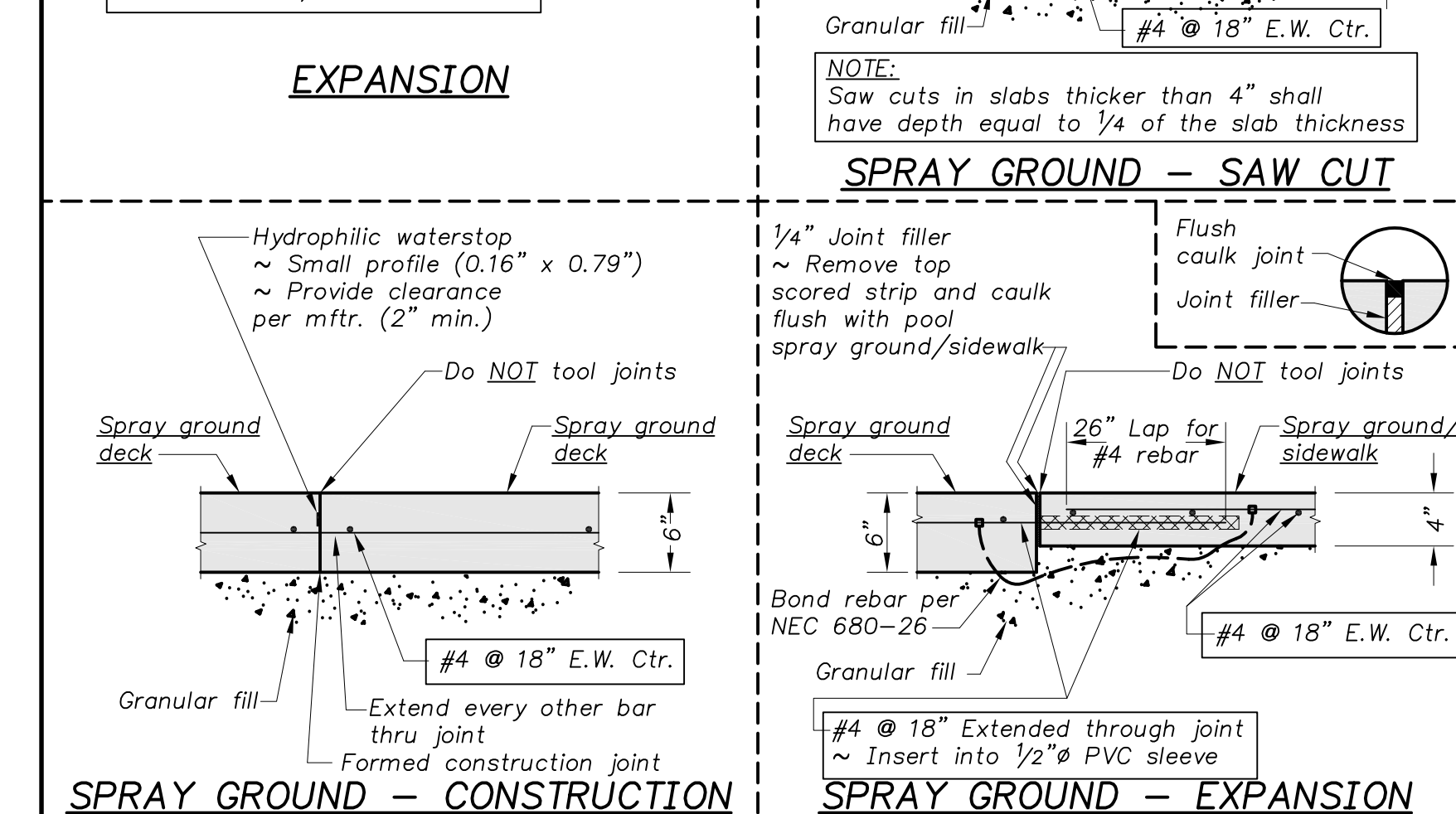
EXPANSION



SAW CUT

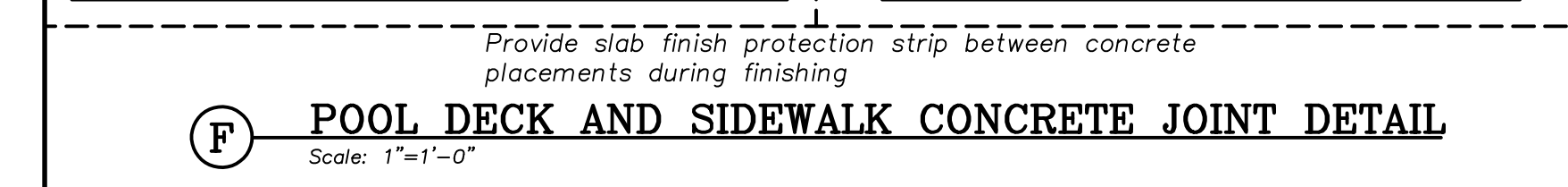
EXPANSION

SAW CUT

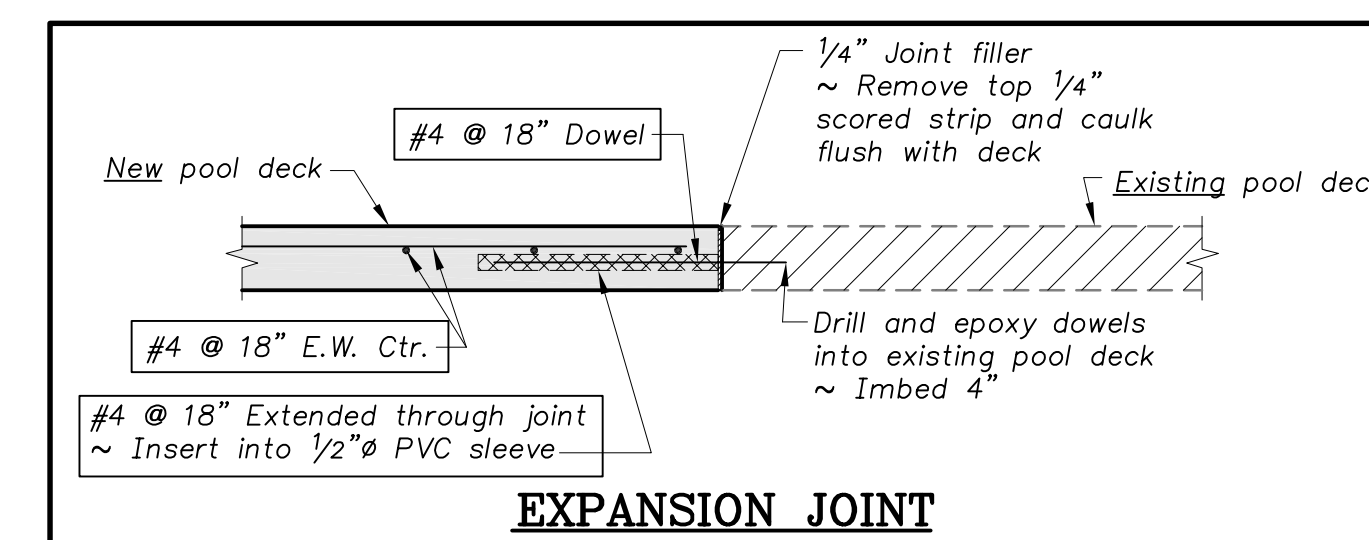


SPRAY GROUND - SAW CUT

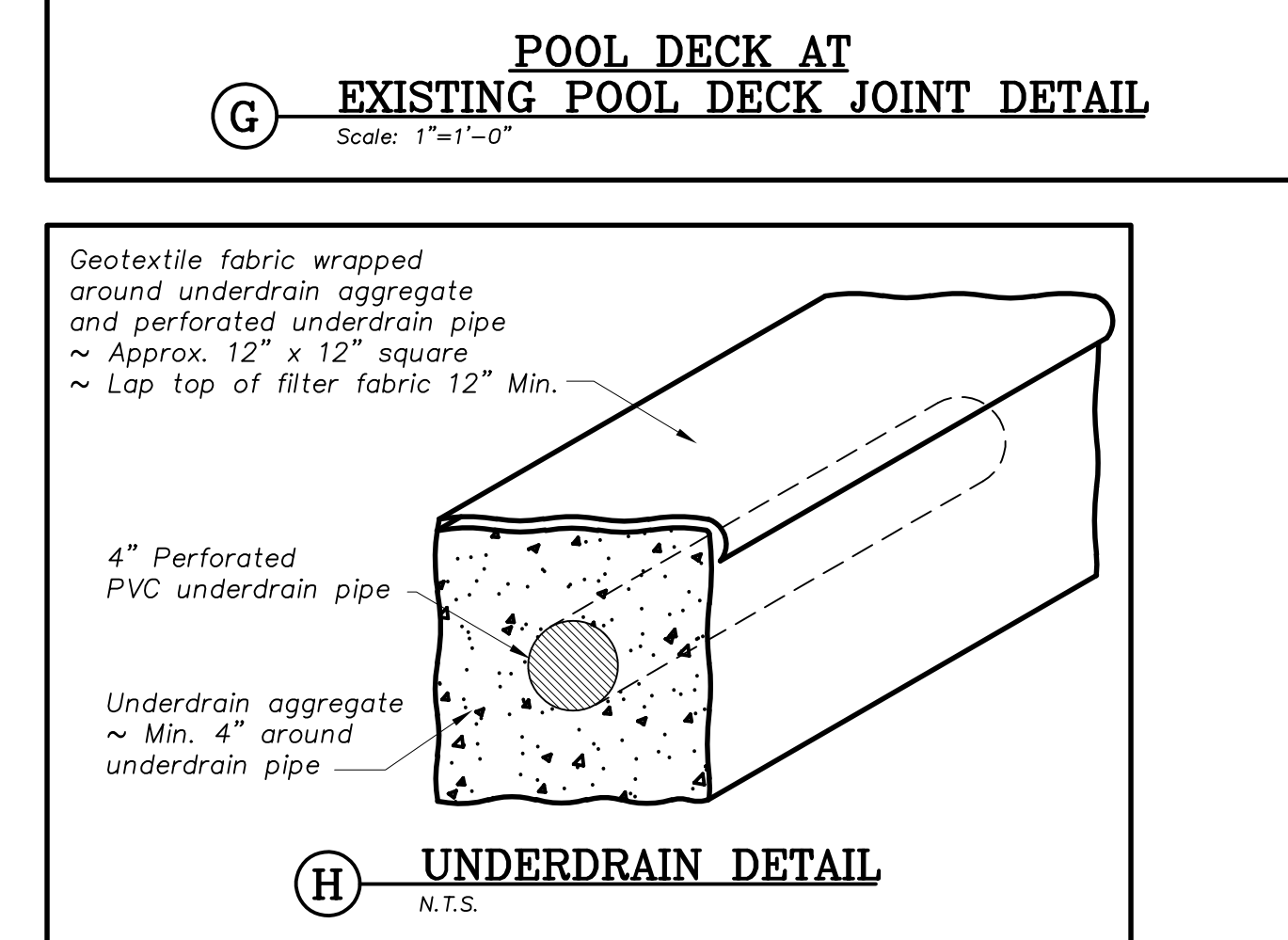
SPRAY GROUND - EXPANSION



F POOL DECK AND SIDEWALK CONCRETE JOINT DETAIL
Scale: 1"=1'-0"



G POOL DECK AT EXISTING POOL DECK JOINT DETAIL
Scale: 1"=1'-0"



H UNDERDRAIN DETAIL
N.T.S.

EXISTING FILTER AREA DEMO KEY NOTES

- Protect existing filter building structure
- Protect existing filter building doors
- Protect existing wooden elevated platform area
- Existing chlorine room area
- Existing overflow block out in wall
- Salvage all existing related chemical feed systems. Present to Owner for assessment to be discarded, saved for reinstallation
- Salvage existing erosion feeder. Provide to owner for assessment to be reused/reinstalled
- Demo/remove existing erosion feeder supply piping
- Demo/remove existing pool filter mechanical equipment identified unless otherwise noted or needed for complete system
- Protect existing 3" – Pool manual fill line and manual valve
- Demo/remove existing float operated valve
- Grout fill existing block-out top of pit wall
- Demo/remove existing overflow channel
- Demo/remove existing valve at end of pipe
- Existing 4" – Pool gutter end of season drain piping below floor identified shall remain and in-situ line for reuse
 - Existing 10" – Pool gutter piping below floor identified shall remain and in-situ lined for reuse
 - Demo/remove remaining of pool gutter piping beyond. See PM1 sheet for pipe route
- Demo/remove – All exposed pool main drain piping within pit routed up into trash basket baffle area
 - Remaining of existing pool main drain piping capped within pit and abandoned beyond. See PM1 sheet
- Protect existing pit sump pump and related discharged piping routed into drain basin
- Demo/remove existing submersible pump manifold header piping and related piping and supports
- Existing – Wading Pool main drain piping abandoned
- Demo/remove partial of –Wading pool main drain/end of season drain piping in pit
- Existing 6" pool return piping cut/capped at floor. Continuation of below grade and beyond abandoned – See PM1 Sheet
- Upper wet basin area
 - Existing upper wet basin floor drain piping
- Protect existing wood baffle wall
- Protect existing trash basket and hoist system
- Existing drain basin area
- Salvage/reuse existing wood planks/grating used to cover pits
- Existing deep pit area
- Protect existing handrails around pits
- Protect existing pit manhole steps
- NOT USED
- Approximate location of electrical panels on wall
- Approximate location of exposed plumbing on wall
- Demo/remove partial of existing concrete floor shown for spray features laterals and drain piping

FILTER AREA IMPROVEMENT KEY NOTES

- Existing 6" pool main drain in deep pit capped at wall/abandoned beyond
- 10" Spray ground main drain piping – See PM1 sheet for pipe route
- New connection to existing pool gutter piping – See key note 15a
- 10" Spray ground main drain discharge into trash basket baffle area
- Existing 4" pool gutter end of season drain piping capped in pit
- Existing 6" pool return piping below grade abandoned – See demo key note 21
- Existing 6" pool return piping capped at floor – See demo key note 21
- Existing 4" Wading pool drain piping abandoned – See demo key note 19
- Existing 4" Wading pool drain piping capped in pit – See demo key note 14
- Provide cored hole within existing wall. Provide link seal fitting around pipe. Filled annular space with non shrink grout on wet side of pit
- Throttling Butterfly Valve ~ Wheel operated valve at supply lines (water features, pool recirc, backwash discharge)
- Isolation Butterfly Valve ~ Lever or hand wheel operated (Pumps) for isolation.
 - Provide S.S. operator extension stem guide for submerged valves and valves in pits anchored with S.S. hardware as req'd.
- Spray ground – Dual submersible recirc pumps combined
- 4" Filter influent header piping
- Grout fill open hole in floor of trash basket/baffle area and in wall after removal of old piping. See key note 16
 - Grout fill opening block out in wall after removal of overflow– See demo key note 13
- Pipe supports – See Details D,E,F–SP–F4
- Mag meter flow meter
- 4" Filter face piping
- Floor mount pipe supports – Saddle type
- 3'-0"Ø Spray ground fiberglass filters
- Air release valves top of filters – See Detail G–SP–F4
- Filter pressure gauges mounted to filter face piping with S.S. hardware
- 4" Filter effluent/UV influent piping
- UV Bypass piping
- PVC blind flange
- UV Vessel and Controller (N.I.C)
- Connection TO Chemical Controller – See Details C,D–SP–F5
- Connection TO Erosion Feeder – See Details B,D–SP–F5
- Connection FROM Muriatic Acid feed system – See Details A,D–SP–F5
- Erosion feeder discharge into pit
- 4" Filter return piping discharged into pit
- 4" Filter backwash laterals
- 4" Filter backwash header piping discharged into drain pit. Set open end 3" above drain pit
- 8" Pump suction header piping
- 8x6 PVC pipe saddle
- Concrete pipe support – See Detail A–SP–F4
- Reducer bushing
- Spray ground – Water table pump with integrated basket strainer
- 2½" Spray ground – Pump discharge/Water table features header supply piping
- Ball valve
- Solenoid valve
- 2½" "Aztec Toddler Ruins" supply piping – See PM1 sheet for pipe route
 - Inline discharge filter
- 3" End of season drain piping routed over to deep pit
- 8" Spray ground – Water feature pump suction
- Inline low profile basket strainer on concrete base. Provide manual air bleed valve in lid
- Reducing flexible connector – Eccentric with flat slide up on pump suction. Concentric on pump discharge
- Pump connection – See Detail C–SP–F4
- Spray ground – Water feature pump on concrete base – See Detail B–SP–F4
- 6" Header supply piping
- Replacement of filter area slab to allow installation of below grade feature supply and drain piping. New slab construction shall include a min. 4" concrete slab with #4 @ 18" O.C. reinforcing. Install expansion joint, slip dowels in adjacent existing concrete surfaces. Saw-cut new slab as needed
- 1½" "Vortex Jet Stream" supply piping – See PM1 Sheet for pipe route

- 3" "Vortex Water Jelly" supply piping – See PM1 Sheet for pipe route
- 6" "Head dress" supply piping – See PM1 Sheet for pipe route
- Existing 3" pool manual fill
- Mechanical auto fill supply piping
- Mechanical auto fill device
- Mechanical auto fill discharge piping
- Low water cut-off switch with baffle – Set float 18" above pump suction
- 8x6 funnel
- Use existing pipe penetration in wall after removal of old deep pit manifold piping see demo key note 18.
- 6" Pit over flow stand pipe. Set funnel 6" down from top of pit wall routed over to deep pit
- Muriatic Acid chemical storage drums and feeder system furnished by Owner/installed by Contractor
- Existing erosion feeder – Reinstalled or Furnished by Owner, installed by Contractor
- Drain valve. Provide tap or appropriate fitting to allow release of water at low point of piping, pumps volutes, strainer baskets, etc.
- Spray ground – Chemical controller reinstalled or furnished by Owner/installed by Contractor
- Spray ground – Features control panel
- Existing wood planks/grates re-installed over existing pits
- Emergency eyewash/shower. Anchor with S.S. hardware
- Provide 1¼" tempered water connection with mixing valve from existing bathhouse water supply

IMPORTANT NOTE

Pump hoist NOI required at this location

FILTER DATA												
Pool	Volume (gallons)	Recirc Rate (GPM)	Filter Size (dia.)	Quantity or Cells	Filter Area Each (s.f.)	Filter Area Total (s.f.)	Filter Loading Rate (gpm/s.f.)	Average Turnover (hours)	Backwash Rate at 15 gpm*s.f. (gpm)	Backwash Time (minutes)	Backwash Volume Each (gal.)	Backwash Volume Total (gal.)
Main					0.00	0.00	#DIV/0!	#DIV/0!	0	5	0	0

PUMP DATA									
Location	Pump Description	Flow (gpm)	TDH (ft.)	Shut-off Head (max.) (ft.)	Efficiency +/- 5%	HP	RPM	VFD	
Spray Ground	Recirc ea (2 sump pumps total)	115	42	18	75	n/a	3 ea.	3,600	No
Spray Ground - Water Feature	(sequence 142 min / 560 max)	560	68	29	93	79	15	1,800	Yes
Spray Ground	Water Table	100	60	26	100	n/a	3	3,600	Yes

MAXIMUM PIPE SUPPORT SPACING (Feet) **

Pipe Size	Sch 80 PVC	Ductile Iron	Copper (L&K)
½"	4.5	—	5.0
¾"	4.5	—	5.0
1"	5.0	—	6.0
1¼"	5.0	—	7.0
1½"	5.5	—	8.0
2"	6.0	—	8.0
2½"	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
10"	10.0	*	18.0
12"	11.5	*	19.0
14"	—	*	—
16"	—	*	—

* 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

PIPING NOTES

- Pipe type shall be Sch 80 PVC unless noted otherwise
- 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 shall be flanged
- All piping and fittings at equipment (filters, pumps, valves, etc.) ~ 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



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Jeff Bartley-ENGINEER LICENSE #15116

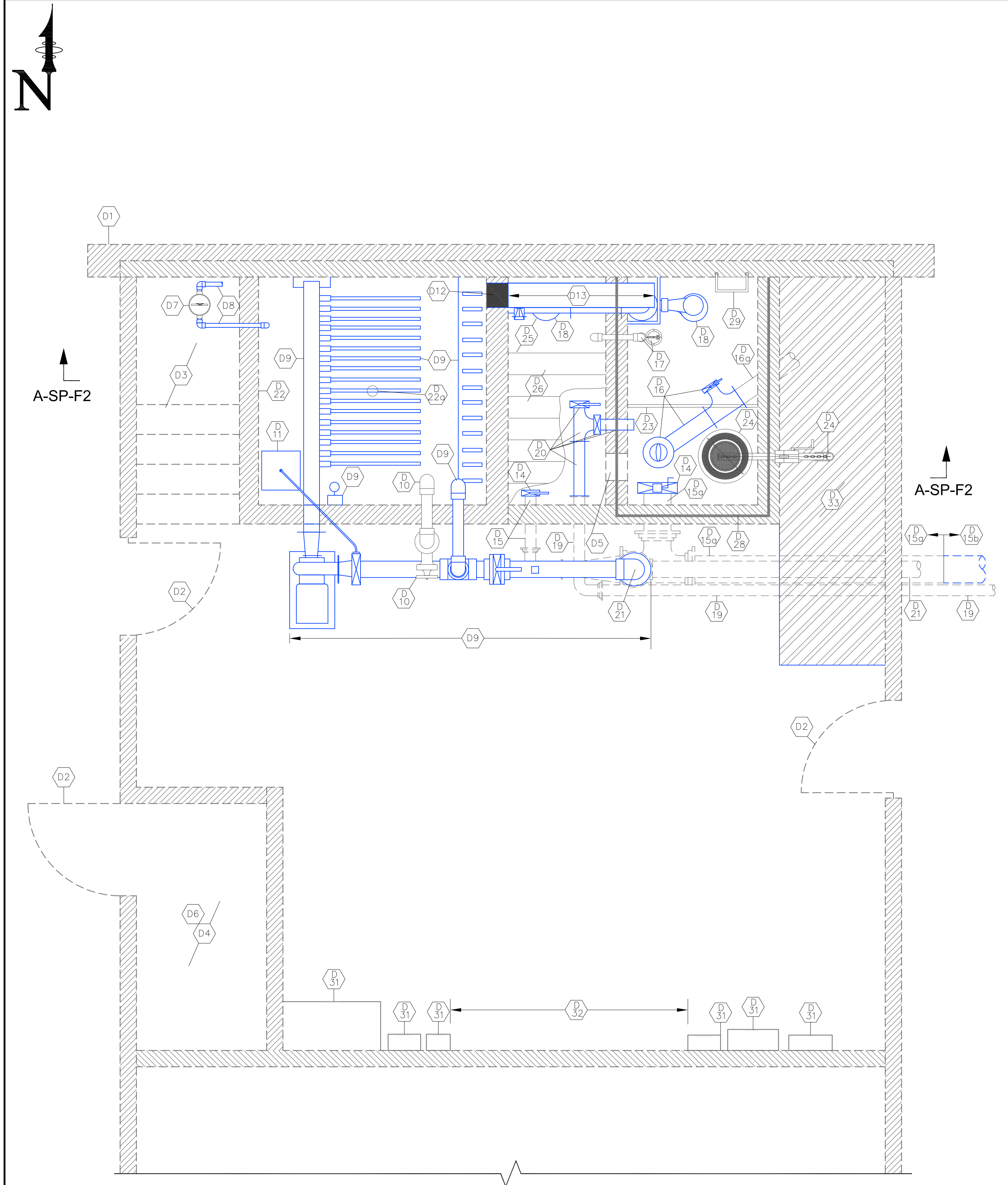
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Drawn: CJB Checked: JAB

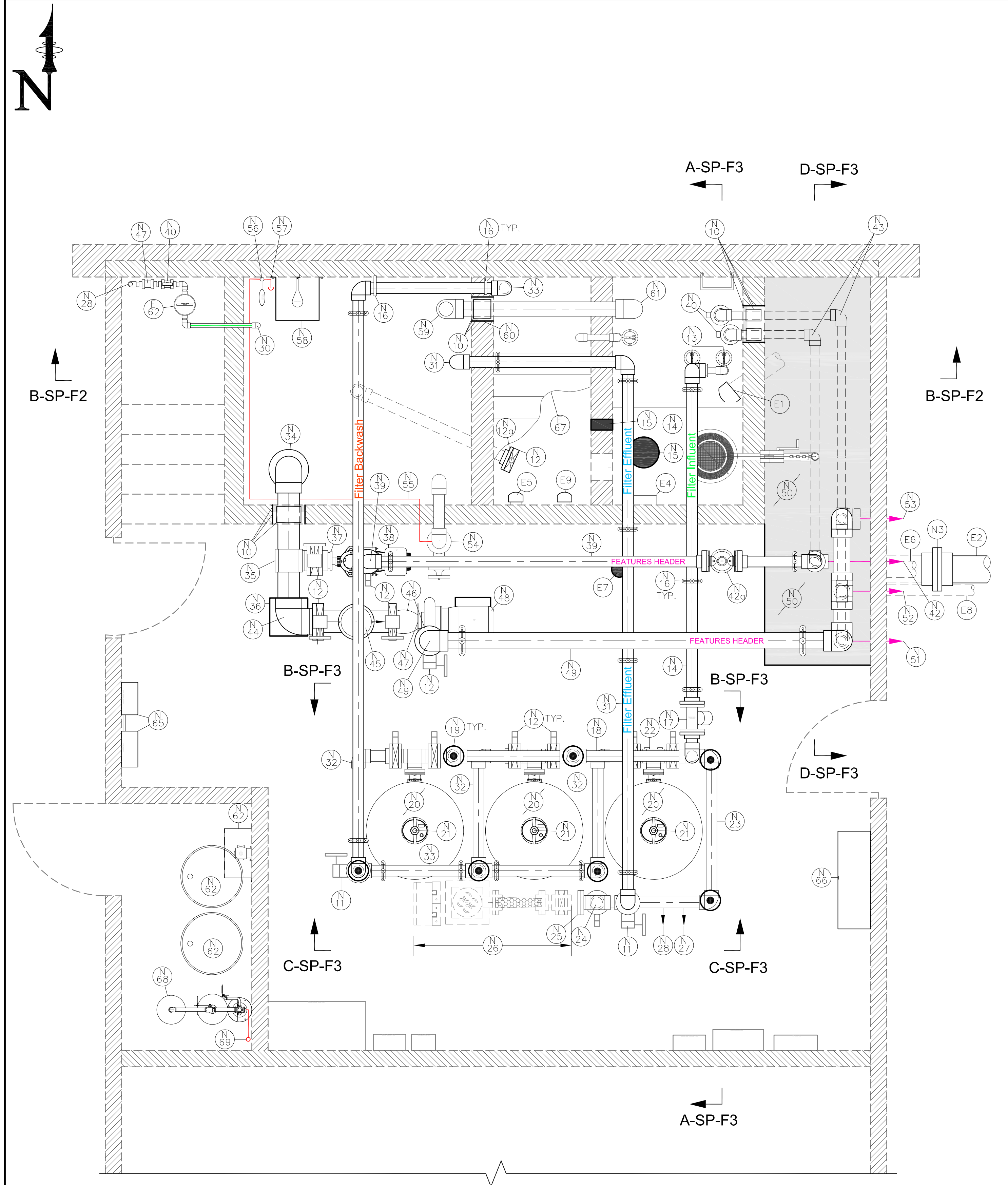
Issue: CONSTRUCTION DOCUMENTS

FILTER AREA IMPROVEMENT DATA AND KEY NOTES

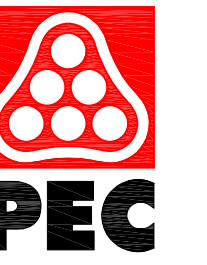
SP-F0



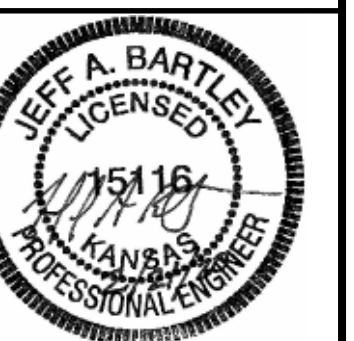
A EXISTING FILTER AREA DEMO PLAN
Scale: 1/2"=1'-0"



B EXISTING FILTER AREA IMPROVEMENT PLAN
Scale: 1/2"=1'-0"



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Jeff Bartley - ENGINEER
LICENSE #15116

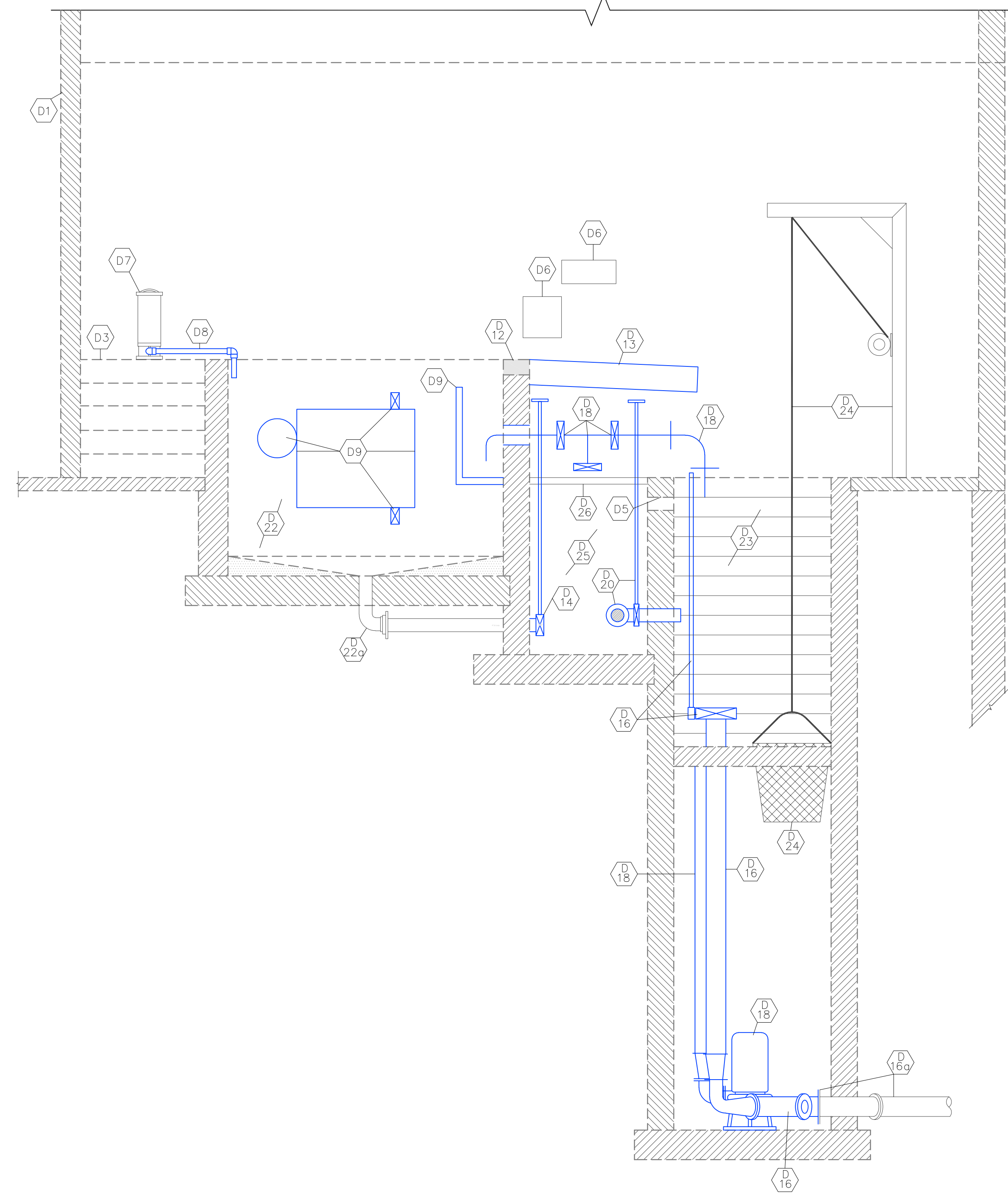
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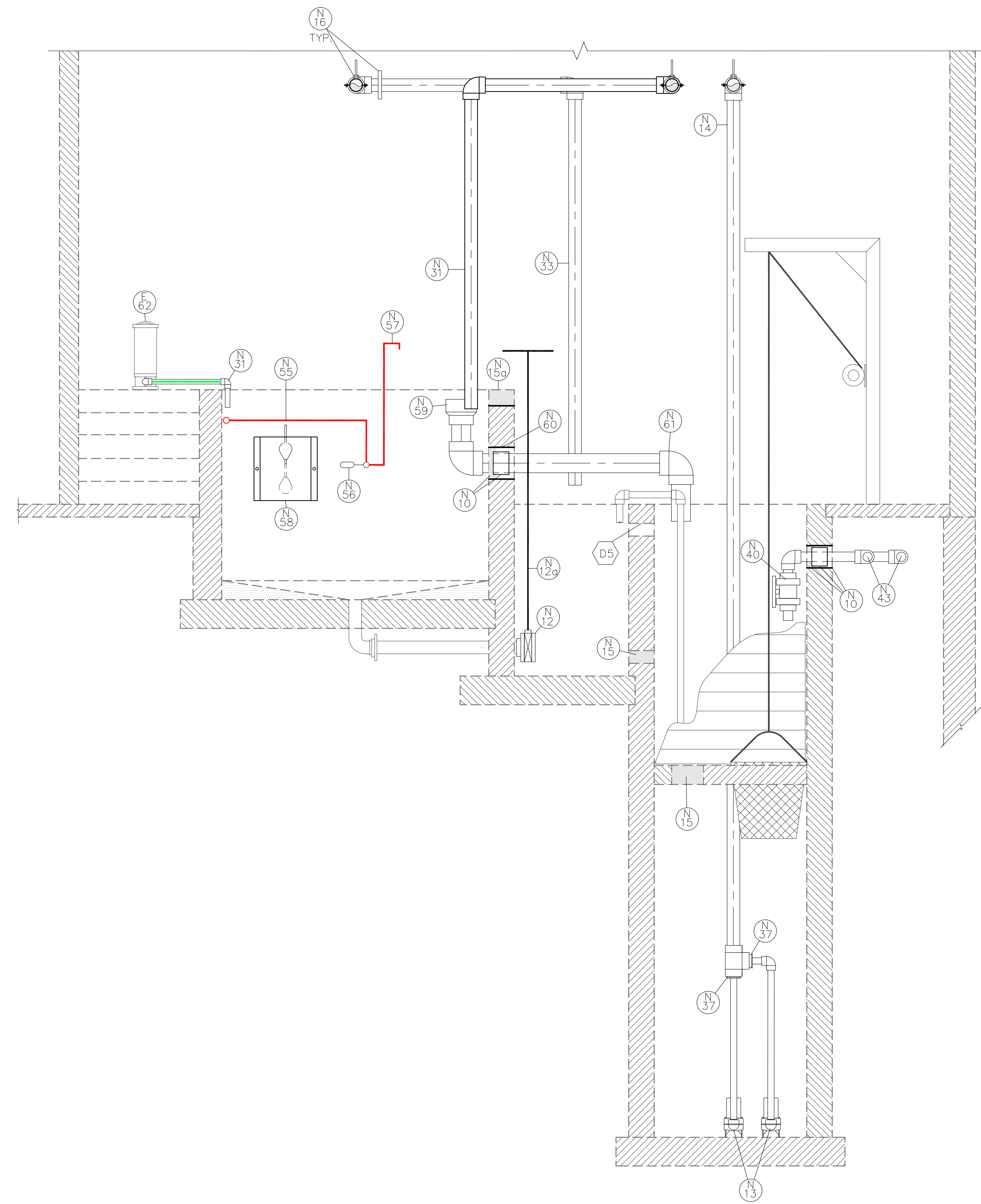
Issue: CONSTRUCTION DOCUMENTS

EXISTING
FILTER AREA
DEMO
PLAN

SP-F1



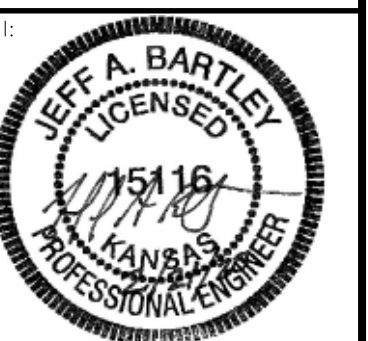
A FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



B FILTER AREA IMPROVEMENT PLAN
Scale: 1/2"=1'-0"



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



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LICENSE #15116

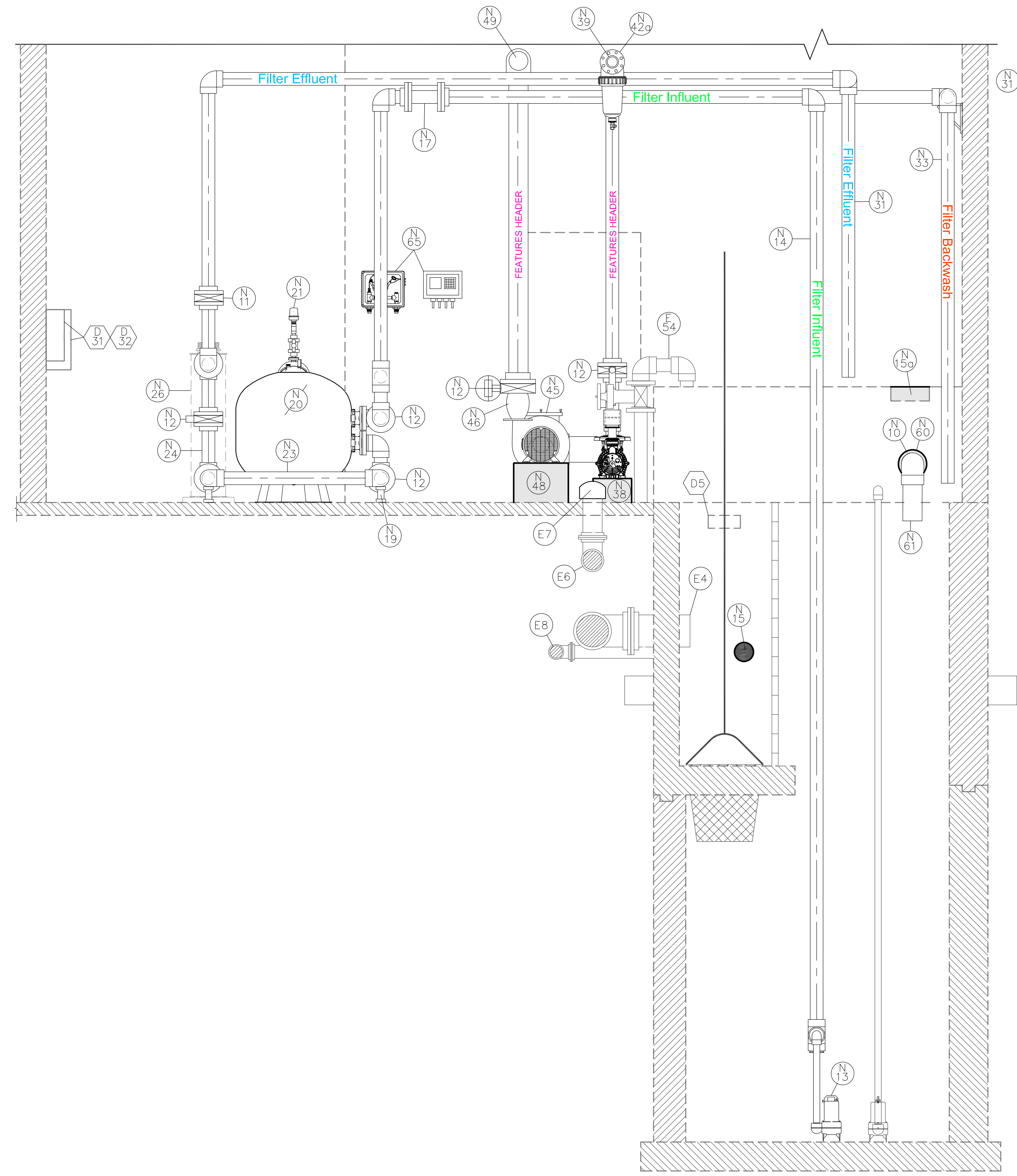
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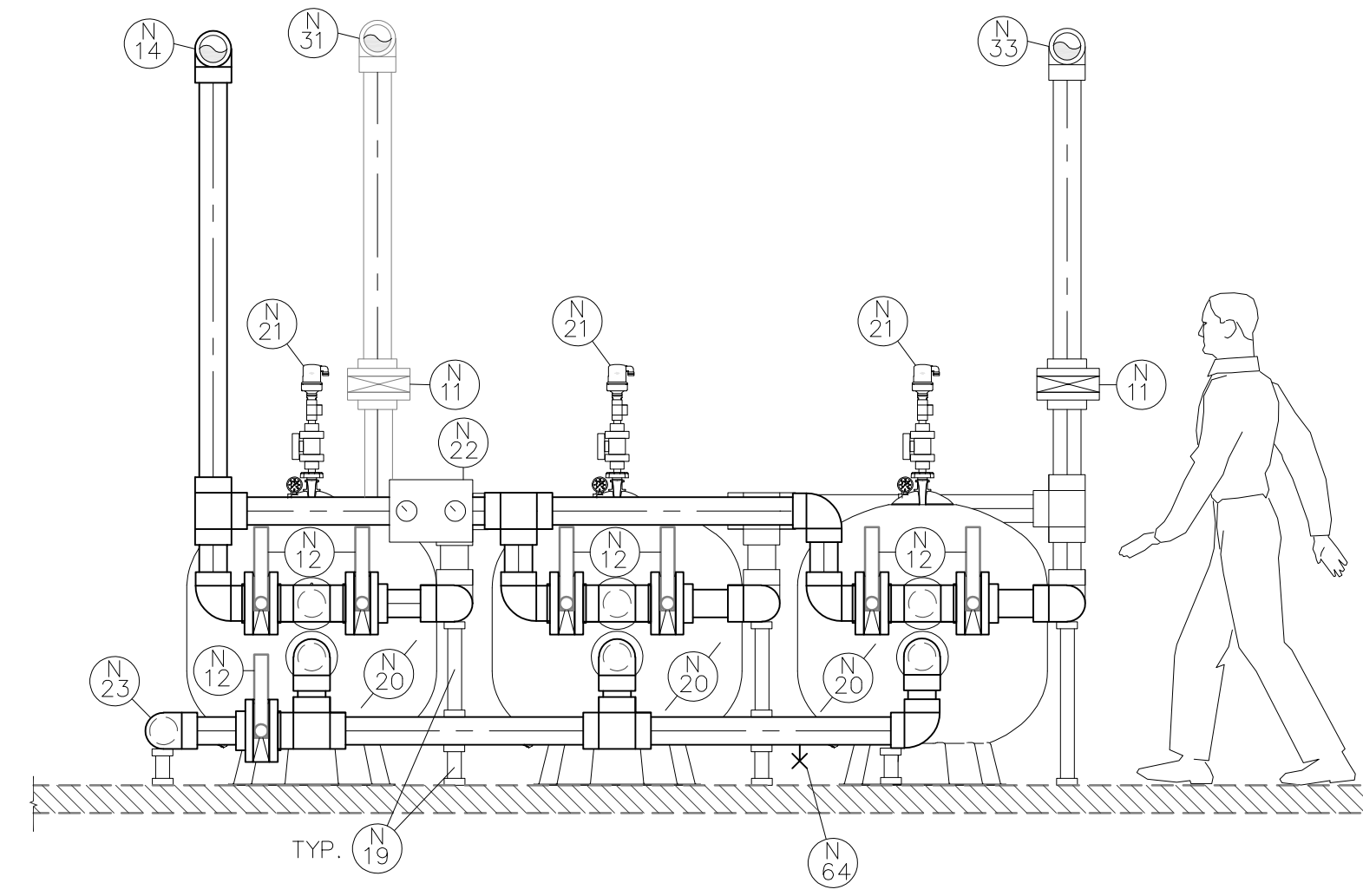
Issue: CONSTRUCTION DOCUMENTS

**FILTER
AREA
IMPROVEMENT
PLAN**

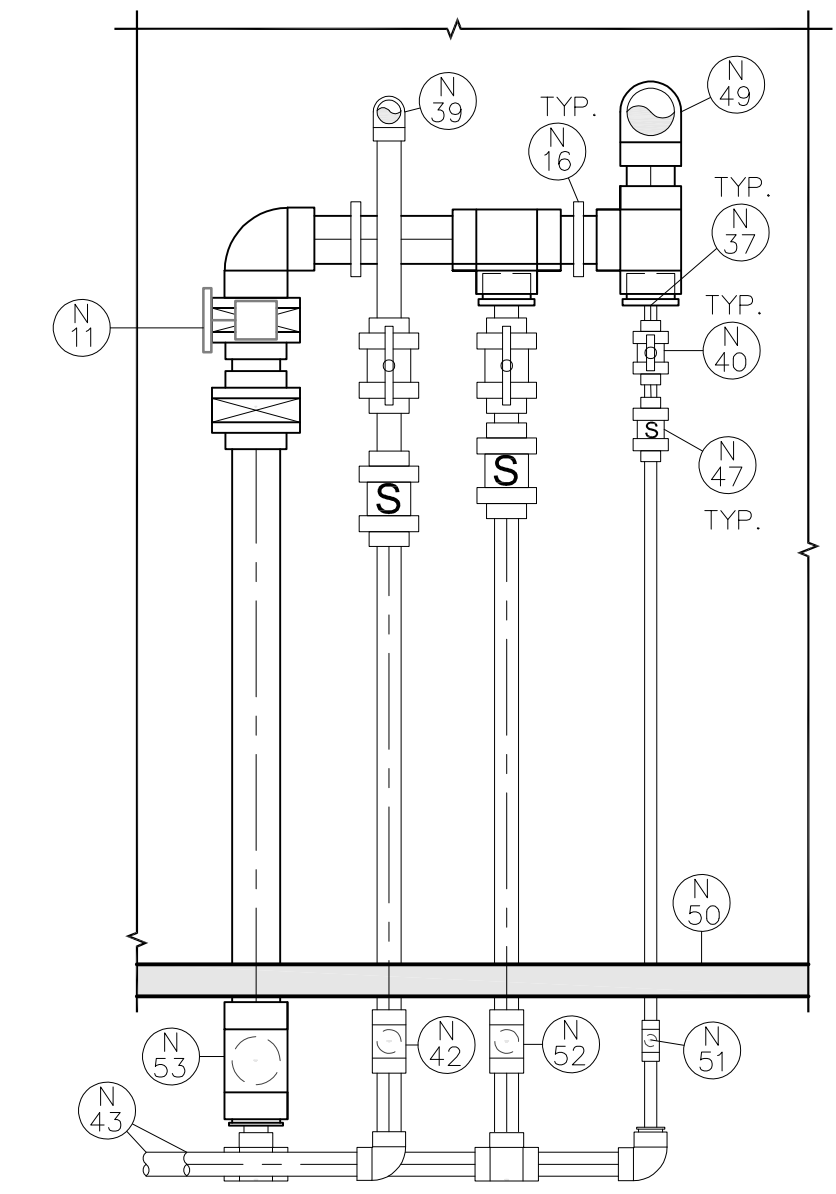
SP-F2



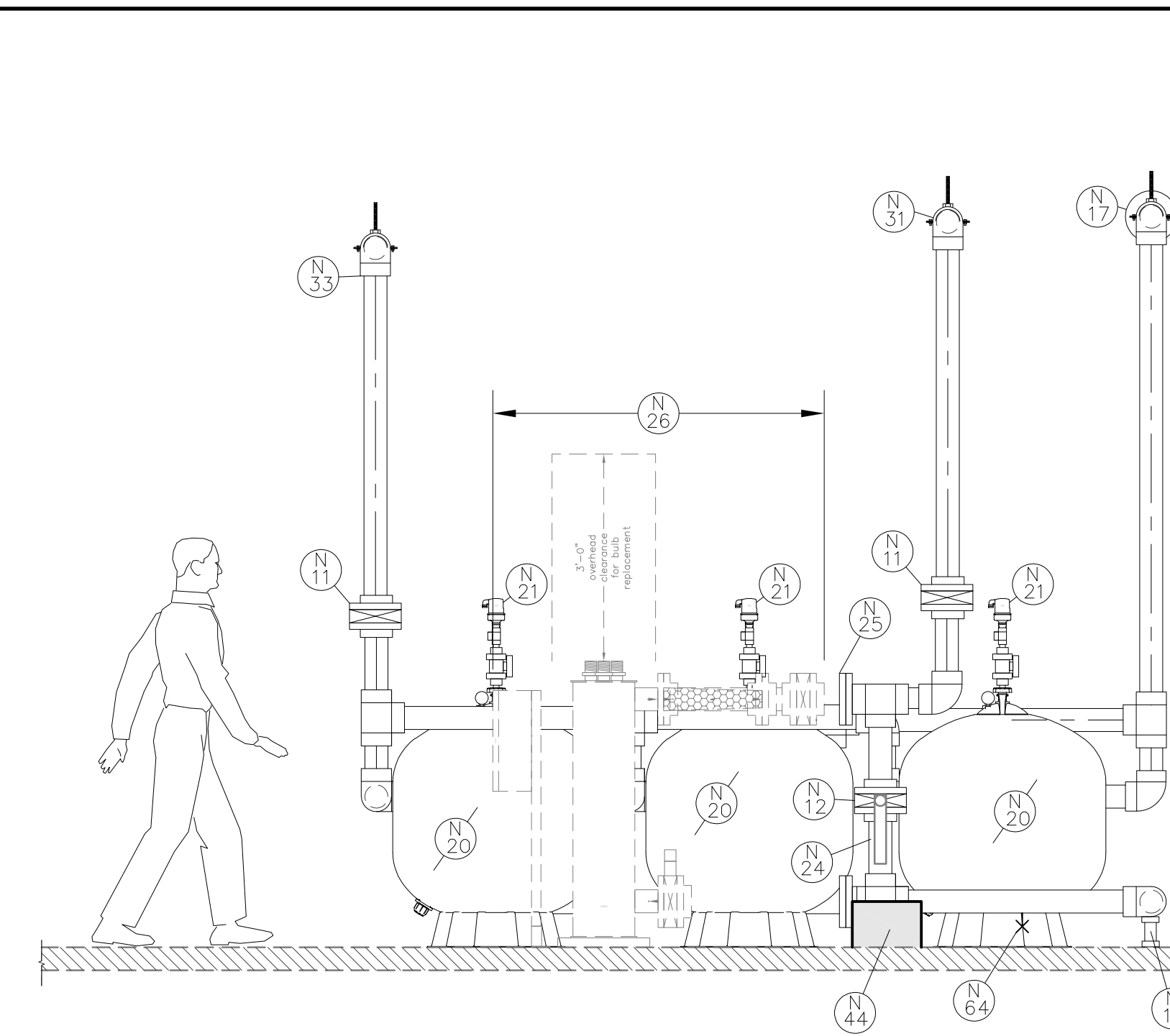
A FILTER AREA IMPROVEMENT PLAN
Scale: 1/2"=1'-0"



B FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



D FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



C FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



Jeff Bartley - ENGINEER
LICENSE #15116

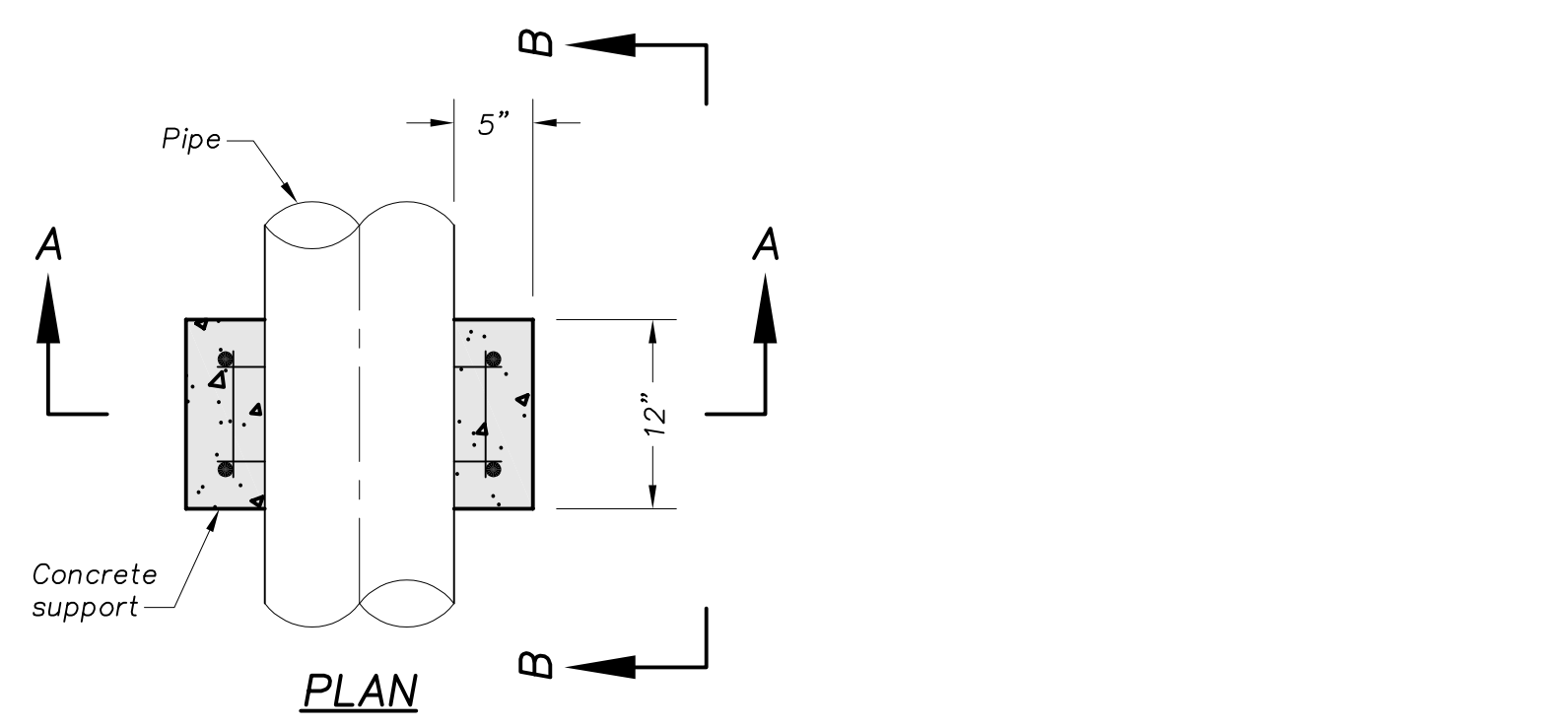
Date: 02-21-20 Job #: 18-512

Drawn: CJB Checked: JAB

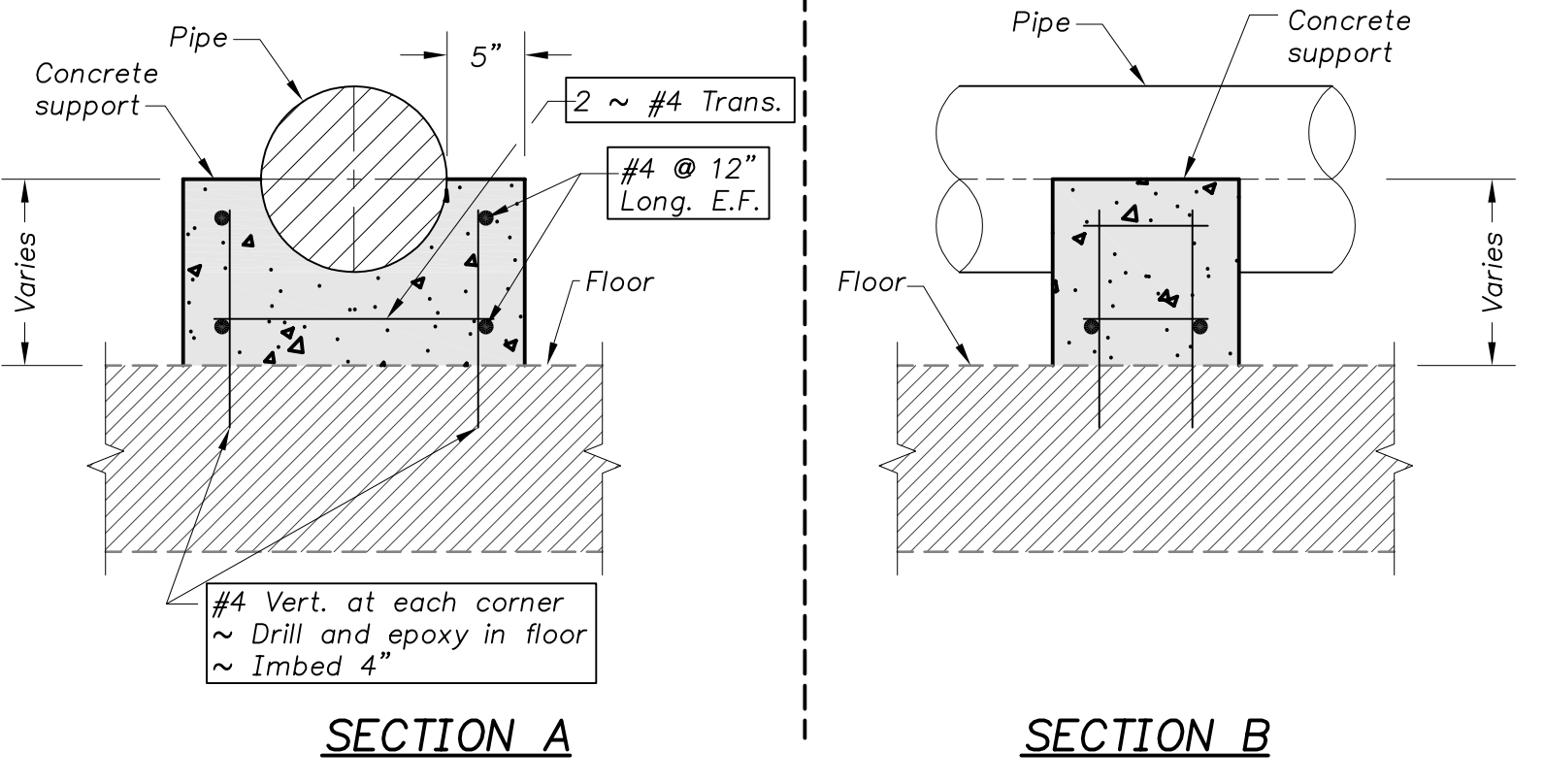
Issue: CONSTRUCTION DOCUMENTS

**FILTER
AREA
IMPROVEMENT
SECTIONS**

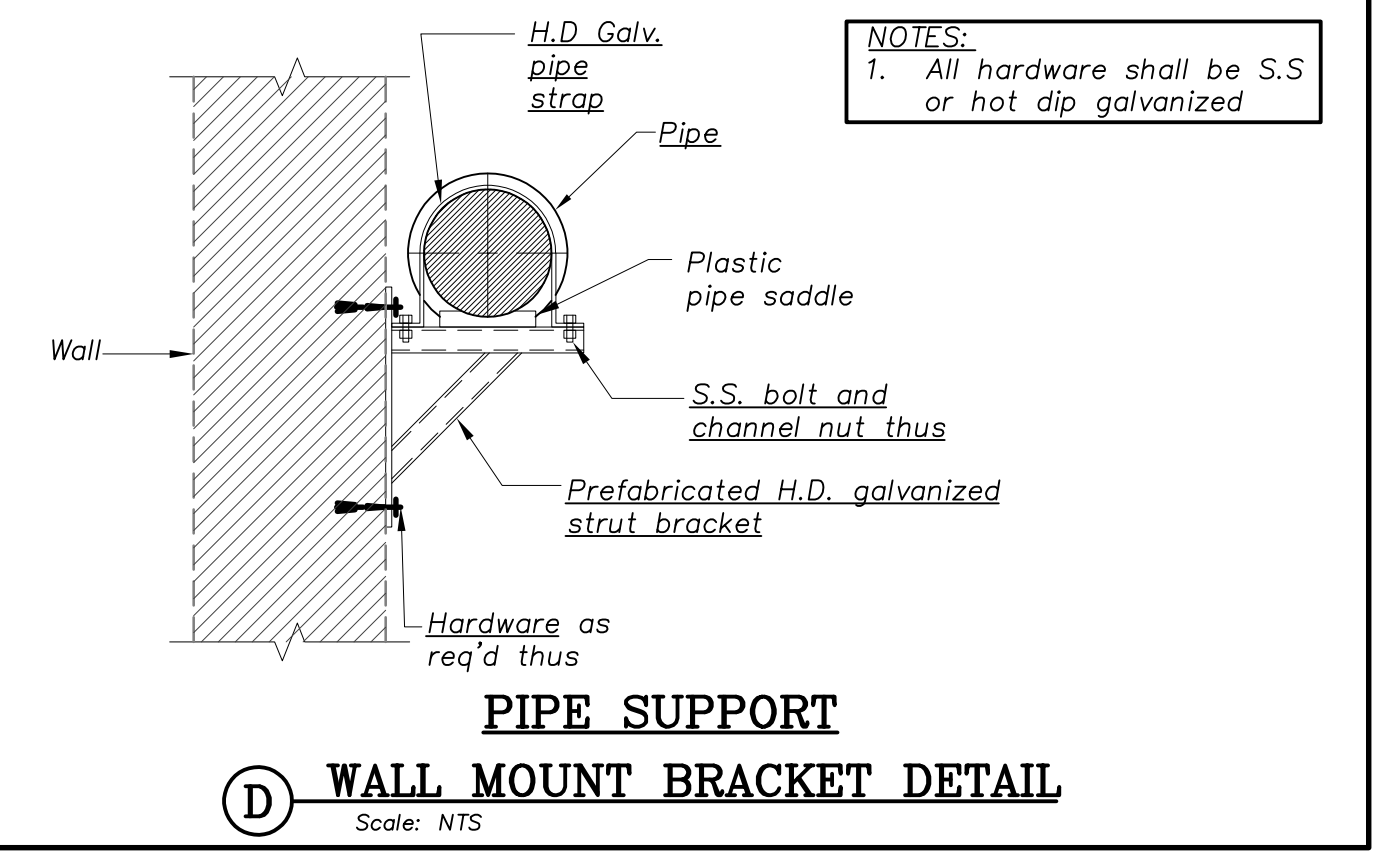
SP-F3



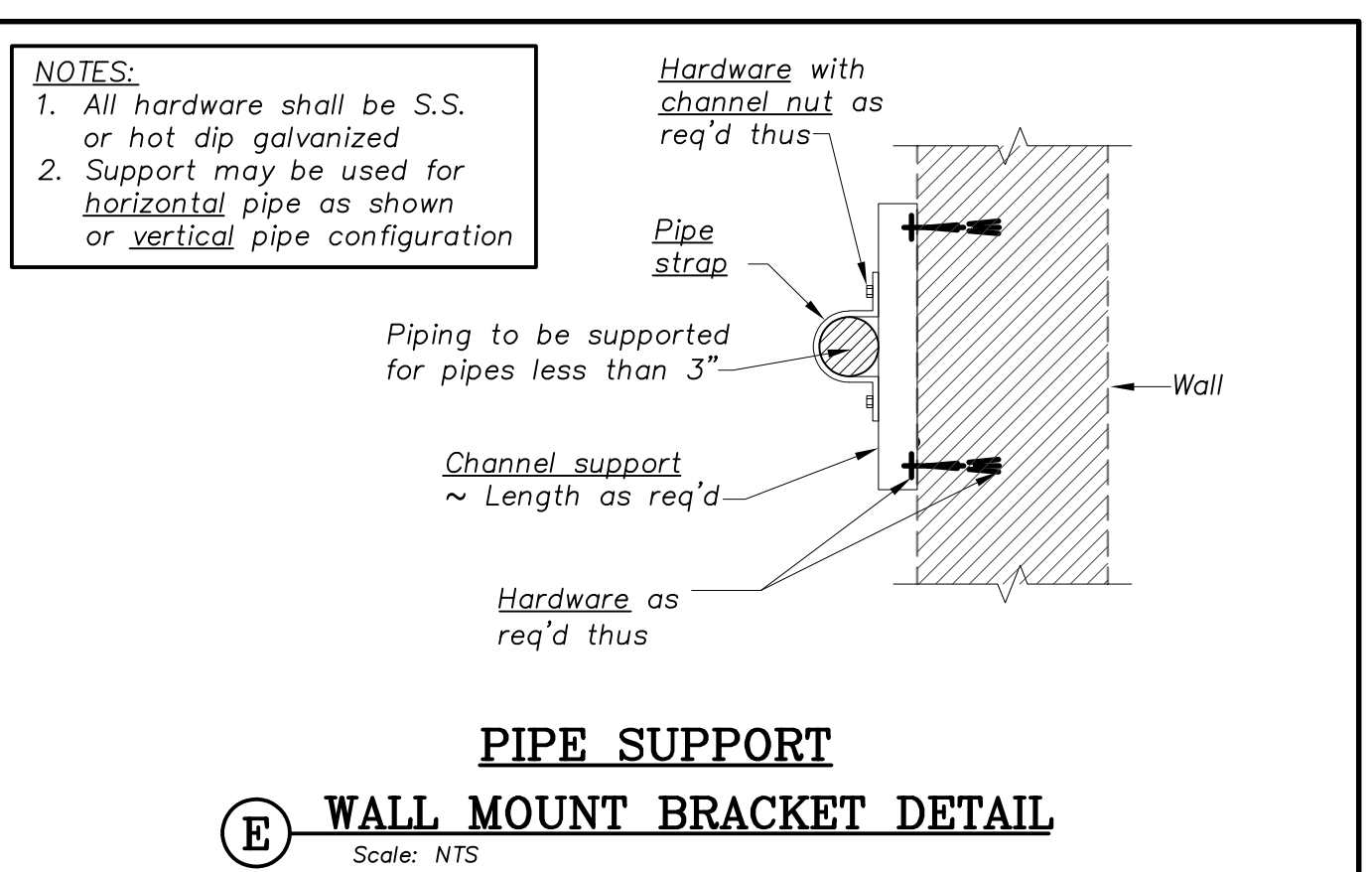
A PIPE SUPPORT - CONCRETE DETAIL
Scale: 1"=1'-0"



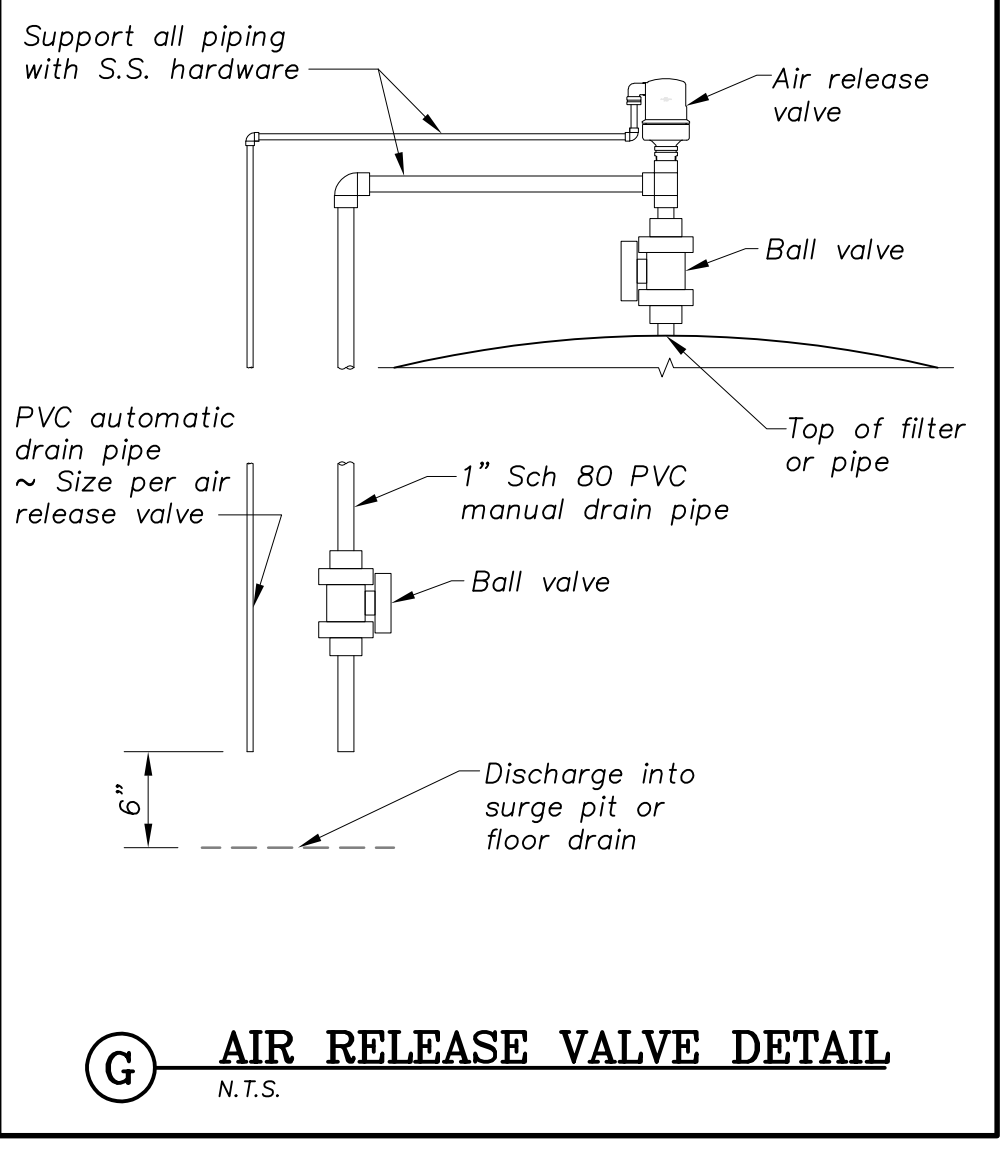
A PIPE SUPPORT - CONCRETE DETAIL
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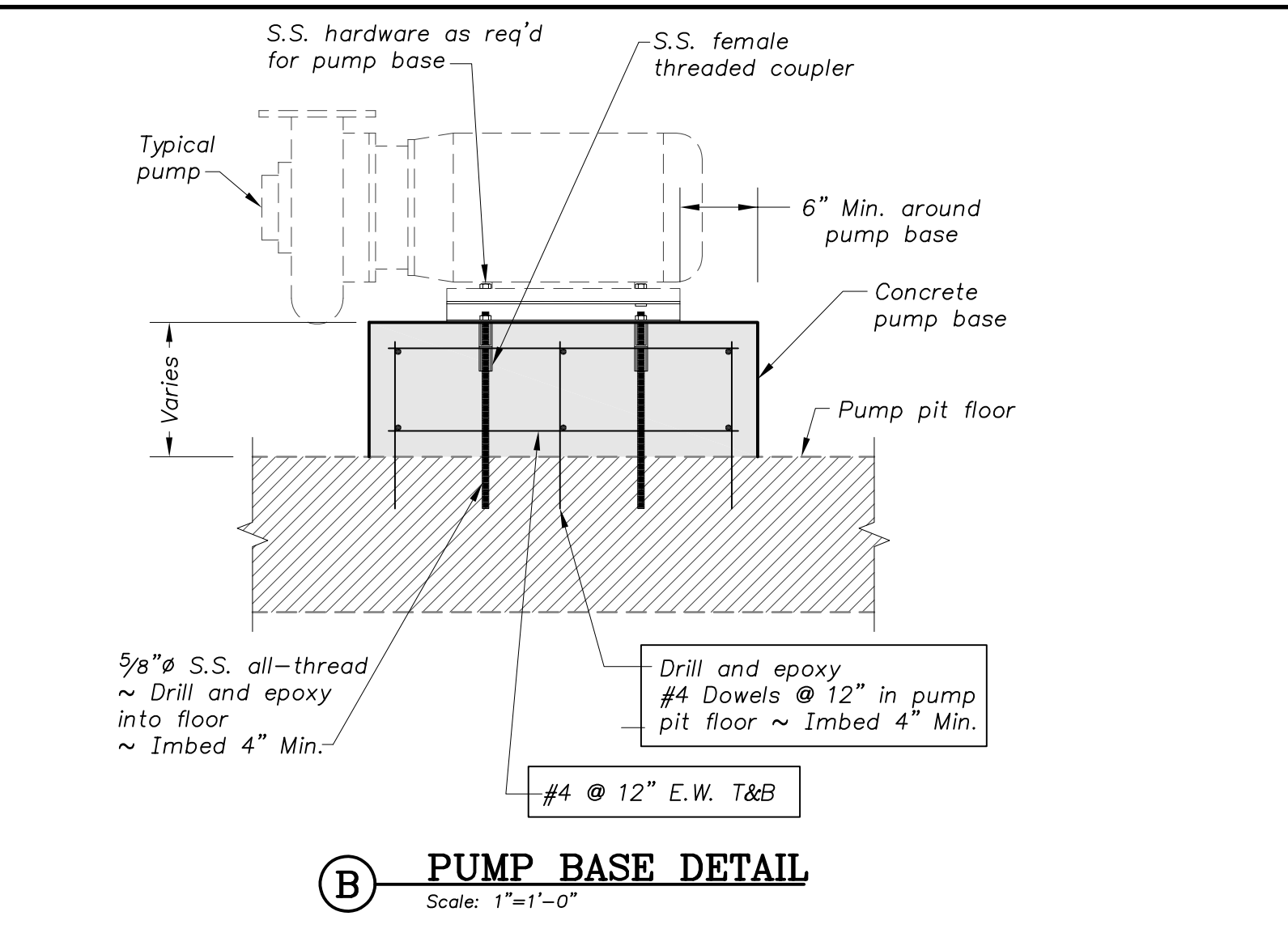
D WALL MOUNT BRACKET DETAIL
Scale: N.T.S.



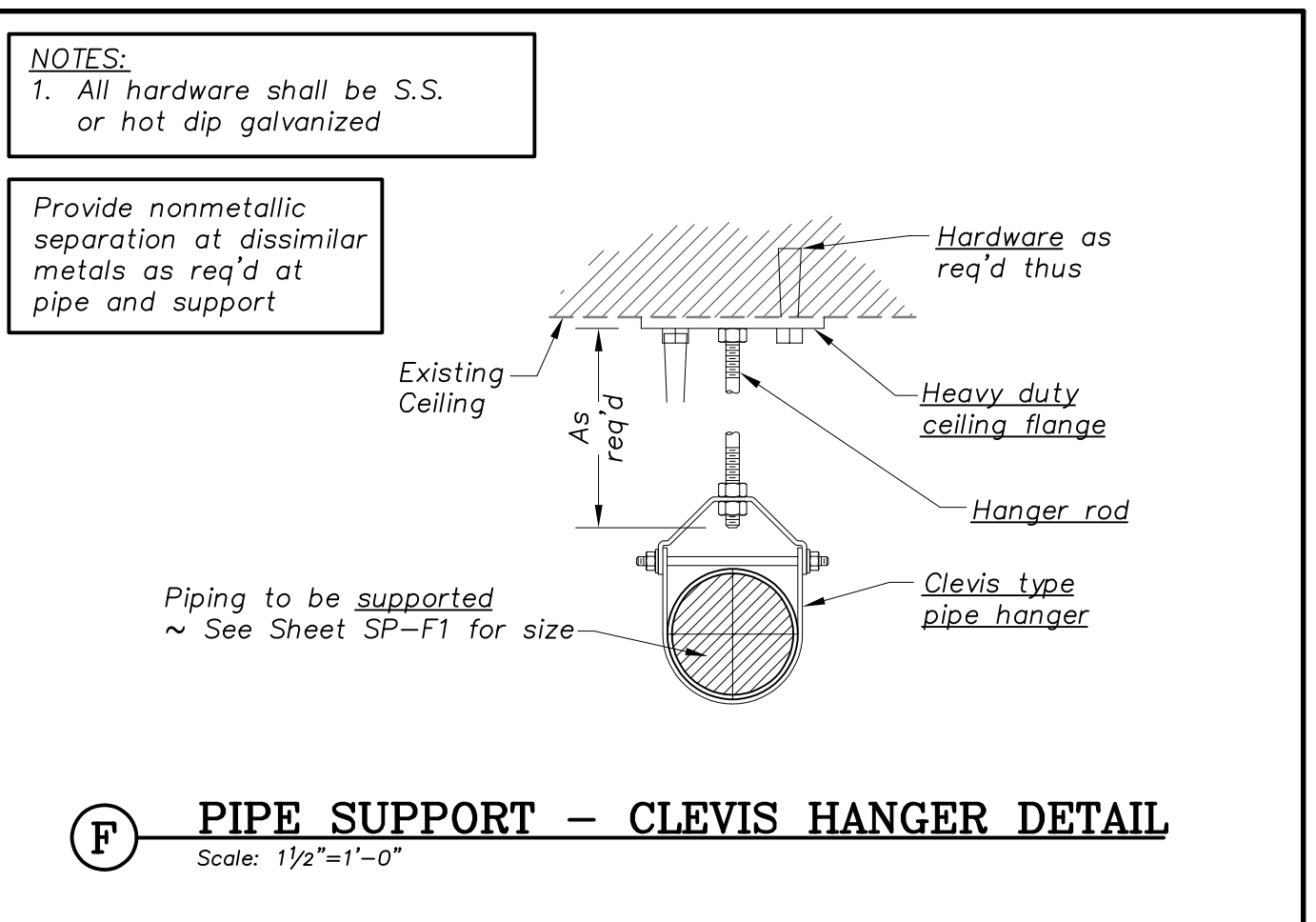
E WALL MOUNT BRACKET DETAIL
Scale: N.T.S.



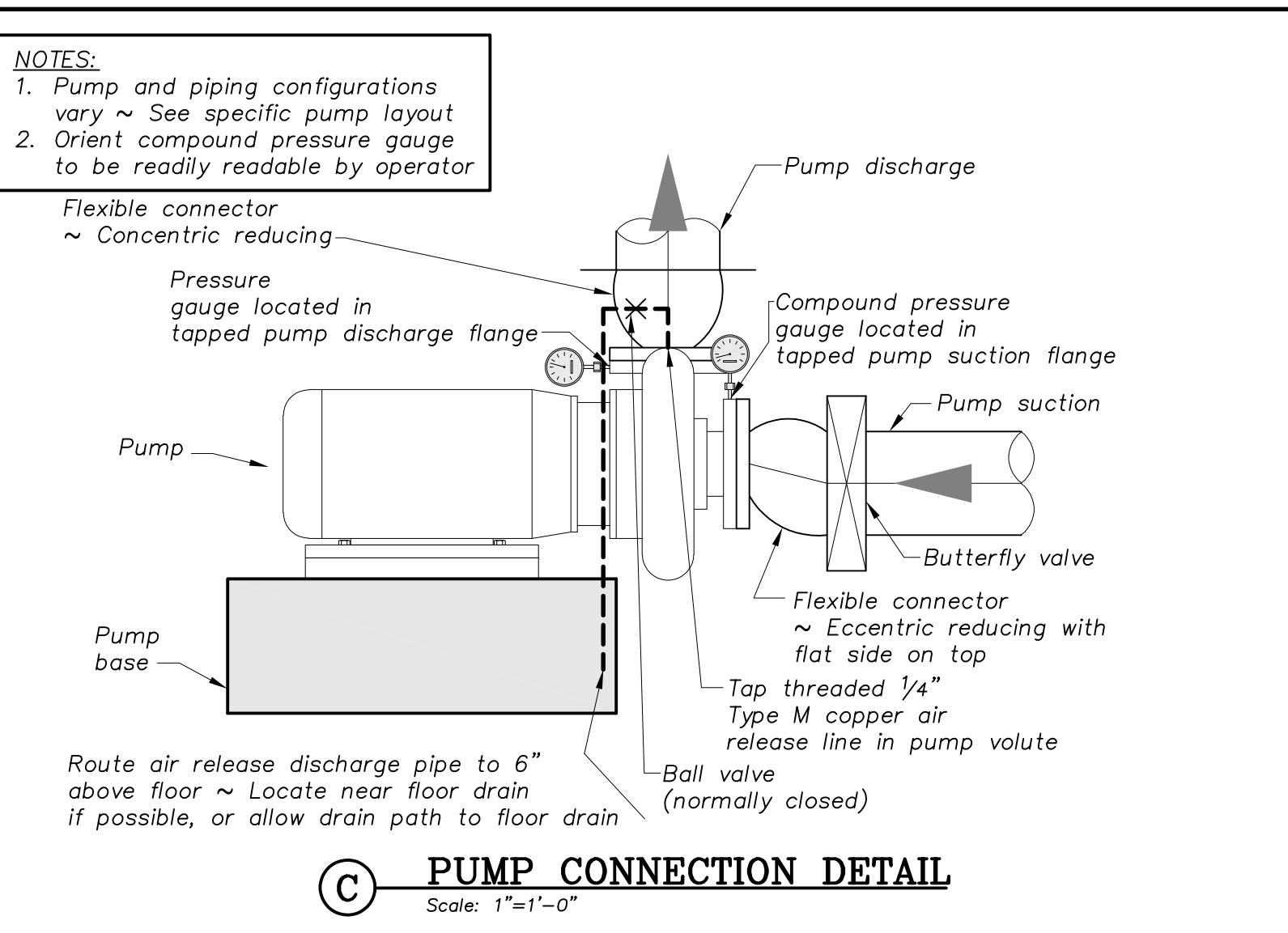
G AIR RELEASE VALVE DETAIL
N.T.S.



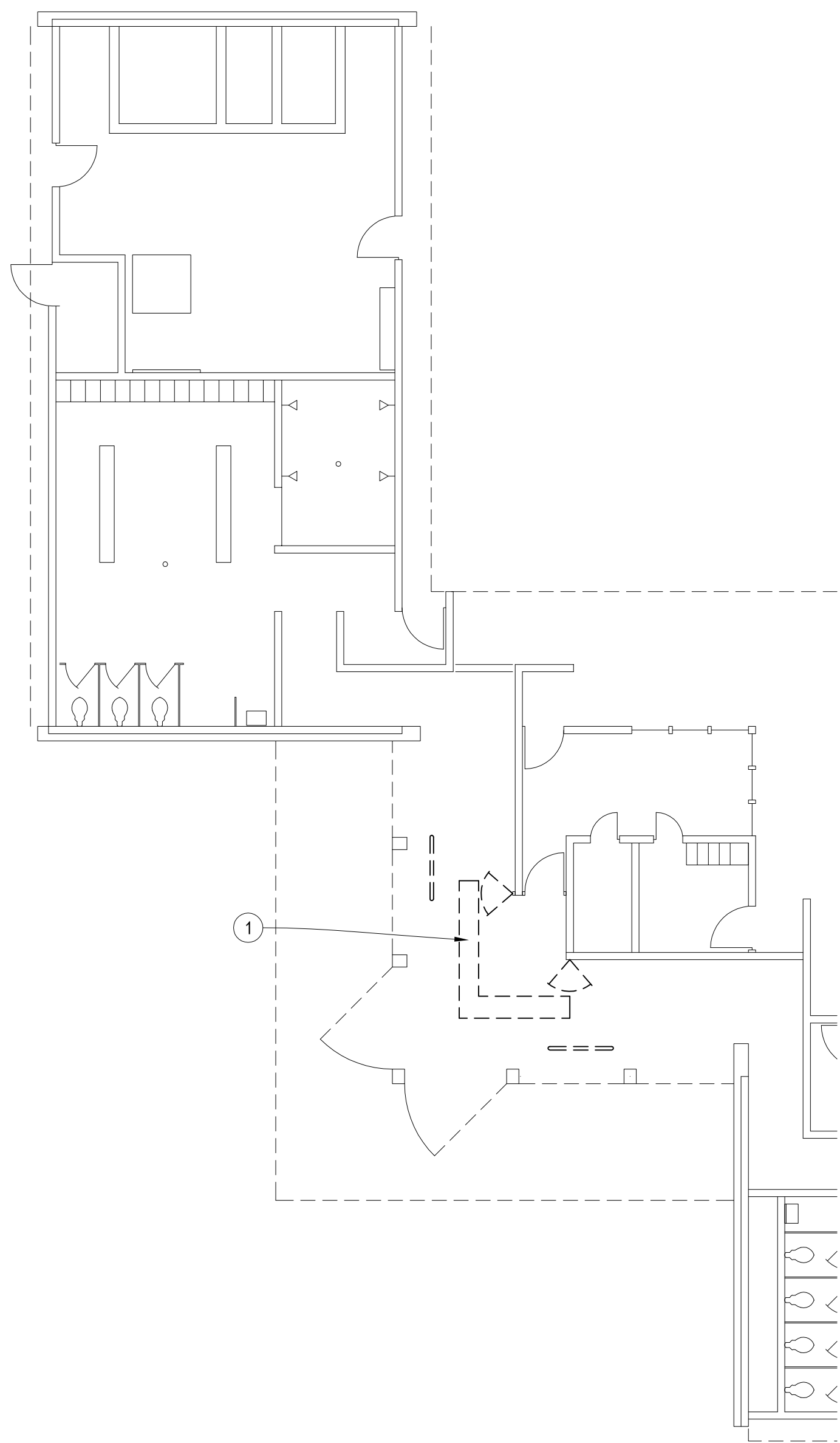
B PUMP BASE DETAIL
Scale: 1"=1'-0"



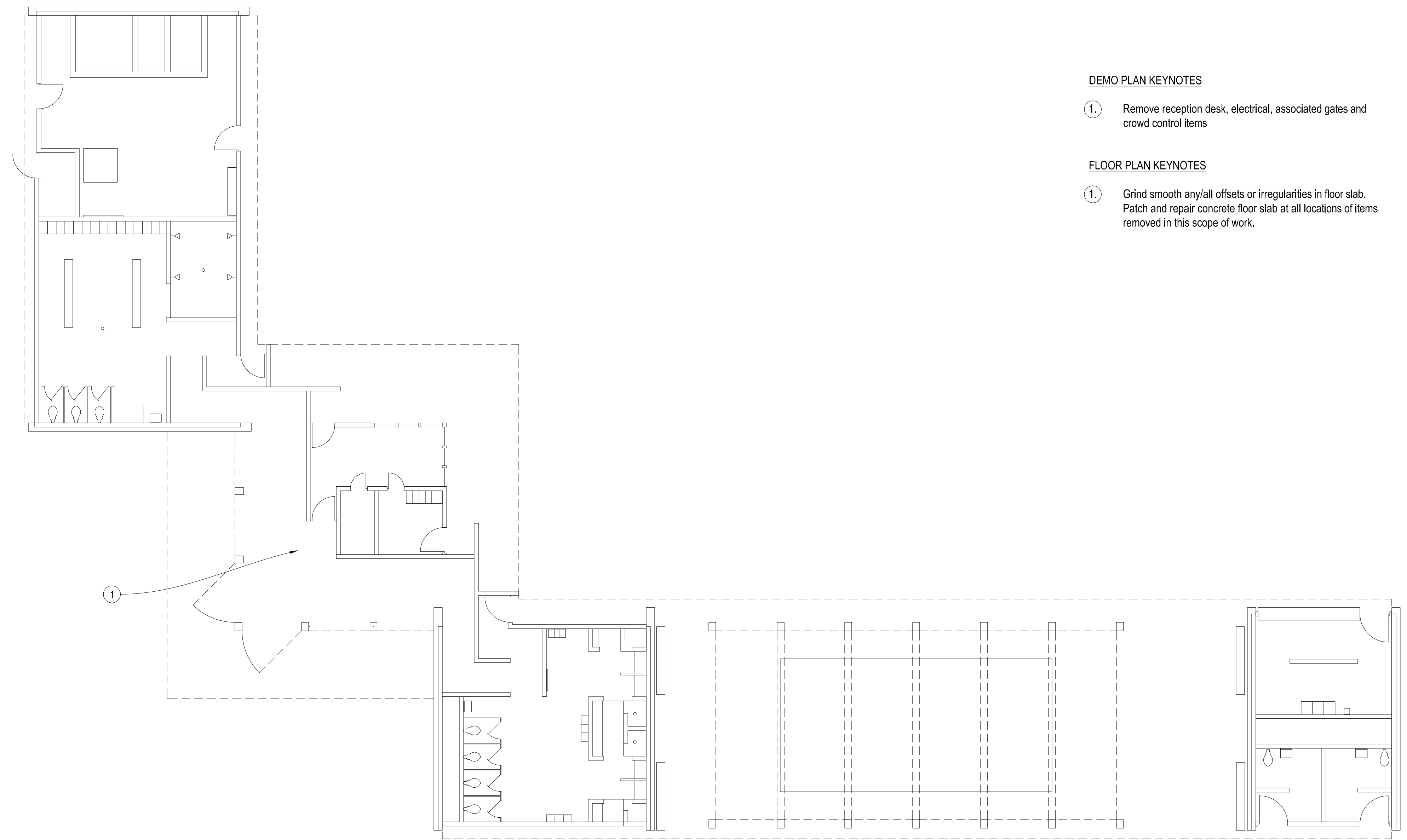
F PIPE SUPPORT - CLEVIS HANGER DETAIL
Scale: 1/2"=1'-0"



C PUMP CONNECTION DETAIL
Scale: 1"=1'-0"



A DEMOLITION PLAN
Scale: 1/8"=1'-0"



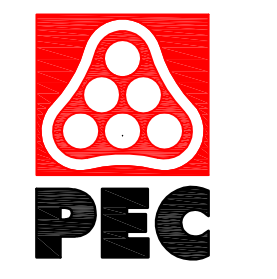
B FLOOR PLAN
Scale: 1/8"=1'-0"

DEMO PLAN KEYNOTES

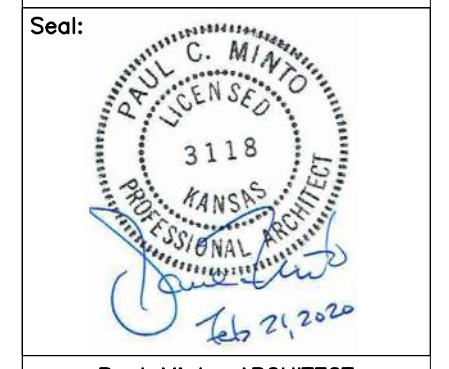
- ① Remove reception desk, electrical, associated gates and crowd control items

FLOOR PLAN KEYNOTES

- ① Grind smooth any/all offsets or irregularities in floor slab. Patch and repair concrete floor slab at all locations of items removed in this scope of work.



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



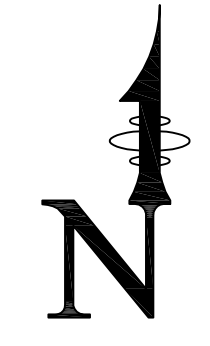
Paul Minto—ARCHITECT
LICENSE #3118
Date: 02-21-20 Job #: 18-512

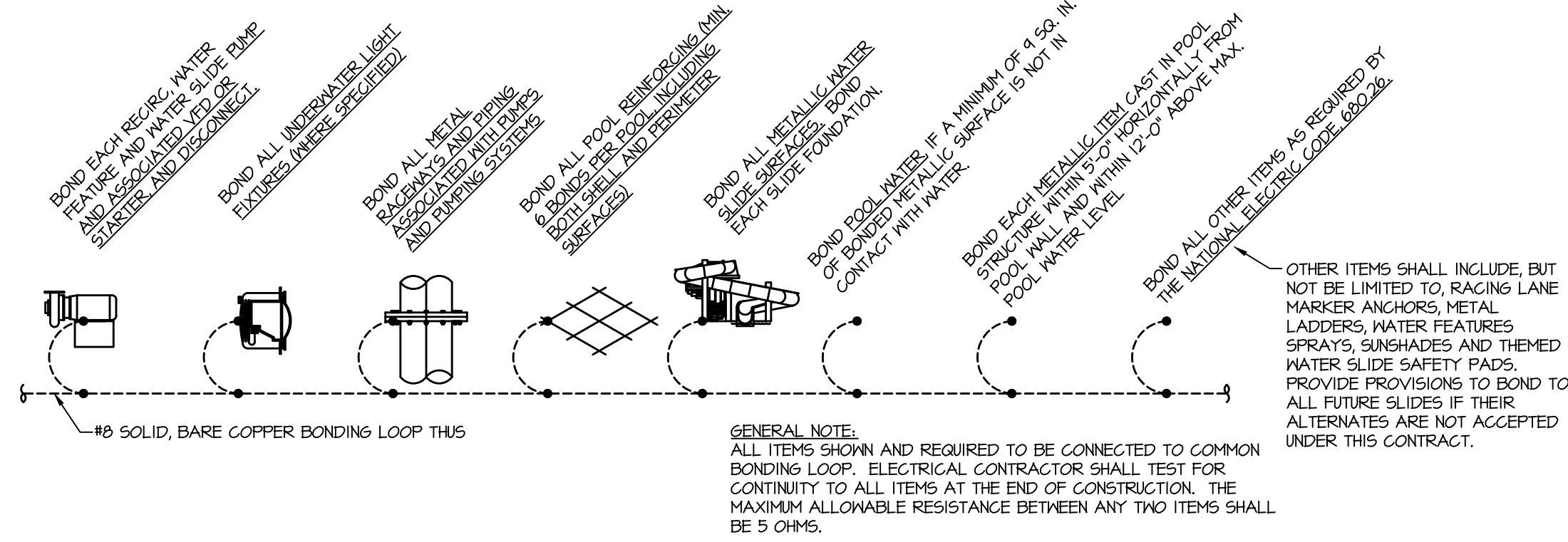
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Issue: CONSTRUCTION DOCUMENTS

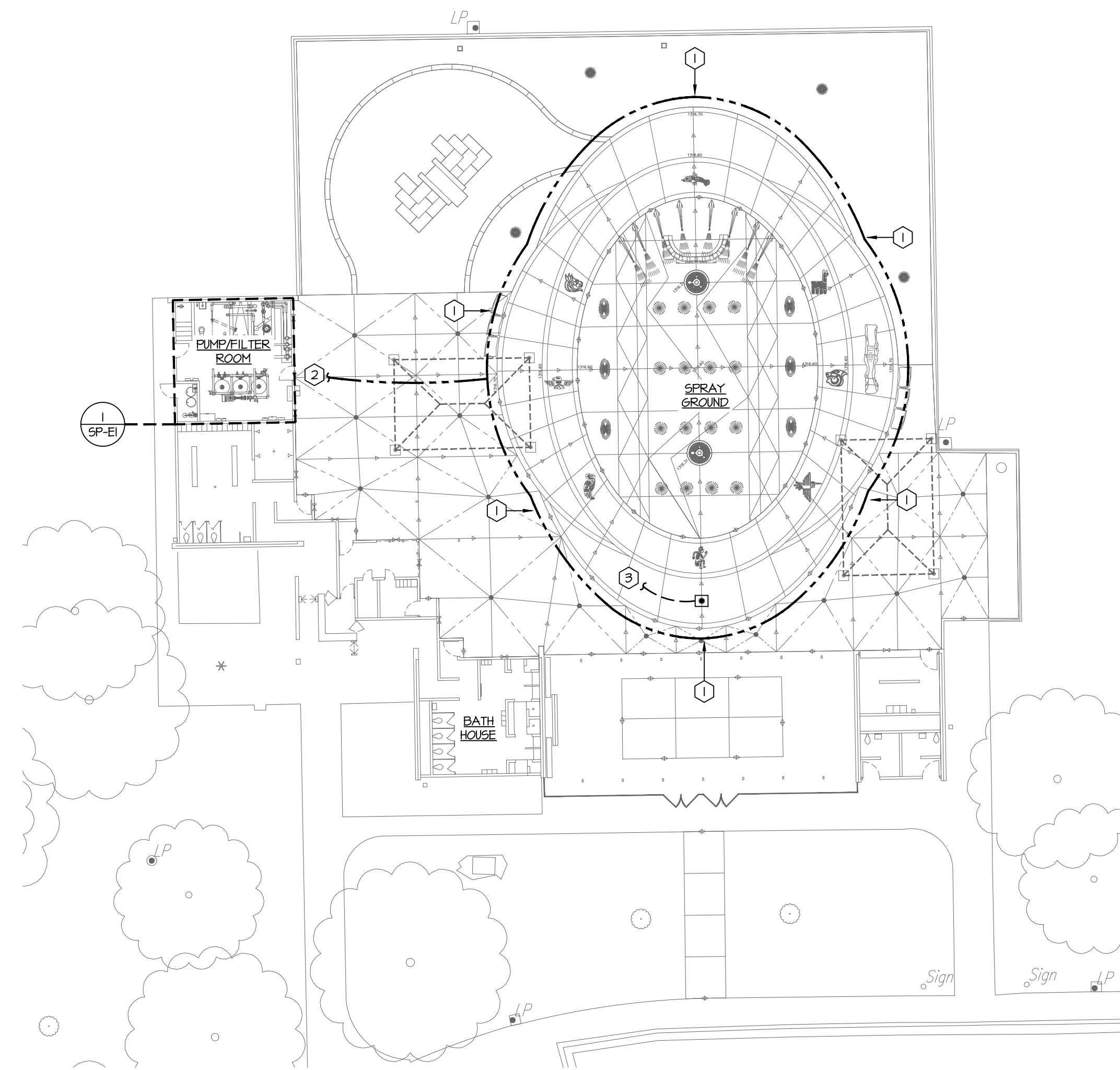
**ARCHITECTURAL
PLAN**

A-1





2 Equipotential Bonding Schematic
Scale: None



1 MEP Site Plan
Scale: 1" = 20'-0"

- GENERAL NOTES:**
- THE FOLLOWING NOTES SHALL APPLY TO ALL WORK SHOWN ON SHEETS SP-ME1, SP-ME2, SP-M1, SP-E1, SP-E2, AND SP-E3 AND SHALL SUPERSEDE REQUIREMENTS DEFINED IN SPECIFICATIONS.
- A. UNLESS NOTED OTHERWISE, ALL CONDUITS SHALL BE SCHEDULE 40 PVC WITH BARE COPPER GROUND WIRE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO THE BUILDING SURFACES. ALL EMPTY CONDUIT SYSTEMS SHALL BE PROVIDED WITH FULL STRINGS.
 - B. ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE, WIRE SHALL BE CODE TYPE THHN OR THHN.
 - C. JUNCTION, PULL, RECEPTACLE, AND LIGHT FIXTURE BOXES SHALL BE PVC.
 - D. ALL FLUSH MIRROR DEVICES SHALL BE PROVIDED WITH JIMBO PAGES 4 SEMI-COUR STAINLESS STEEL COVER PLATES. COVER PLATES FOR MIRROR DEVICES IN SURFACE BOXES SHALL BE STAINLESS STEEL UTILITY BOX COVERS, RAISED 1/4".
 - E. PROVIDE THE LIGHT FIXTURES AS SCHEDULED. MATERIAL, TRIM, EQUIPMENT OR SERVICES NECESSARY TO COMPLETE THE INSTALLATION OF THESE FIXTURES, BUT NOT SPECIFICALLY MENTIONED, SHALL BE FURNISHED AS THOUGH SPECIFIED.
 - F. ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NEC ARTICLE 680. ALL EQUIPMENT IN AND AROUND THE POOL SHALL BE UL LISTED AND APPROVED FOR POOL USE.
 - G. FOR ALL ELECTRICAL ENCLOSURES, PANELS, MCC, TRANSFORMERS, ETC., PROVIDE BLACK PHENOLIC PLASTIC TAGS WITH WHITE LETTERING. TAGS SHALL CLEARLY DESCRIBE CONTENTS OF ENCLOSURE OR FUNCTION OF DEVICE AND SHALL BE MECHANICALLY FASTENED TO THE ENCLOSURE. ADHESIVE FASTENING SHALL NOT BE ACCEPTABLE.
 - H. ALL ELECTRICAL EQUIPMENT IN ENCLOSED PUMP PITS AND FILTER AREAS SHALL BE IN NEMA-4 ENCLOSURES. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA-3R ENCLOSURES. ALL ELECTRICAL EQUIPMENT IN DEDICATED MECHANICAL/ELECTRICAL ROOMS SHALL BE NEMA-1. THIS NOTE SHALL APPLY UNLESS NOTED OTHERWISE ON DRAWINGS.
 - I. ALL BELOW GRADE CONDUITS ON SITE SHALL BE ROUTED IN GRANULAR FILL OR LOWER, AND NOT WITHIN THE CONCRETE DECK.
- ELECTRICAL PLAN NOTES:**
1. #8 SOLID BARE COPPER SPRAYGROUND BONDING LOOP. BOND ALL METALLIC ITEMS AS REQUIRED BY THE NATIONAL ELECTRICAL CODE 680.26. INSTALL BONDING LOOP 48" (4'- 0") FROM INSIDE FACE OF SPRAYGROUND AND NO DEEPER THAN 12" BELOW THE FINISHED DECK ELEVATION. SEE DETAIL #2/SP-ME2 FOR FURTHER INFORMATION.
 2. EXTEND #8 BONDING WIRE INTO FILTER AREA OR PUMP PIT AND BOND TO PUMPS.
 3. PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH (2) #12 CONTROL CONDUCTORS BELOW GRADE TO FILTER/PUMP AREA AND CONNECT TO VORTEX SMARTFLOW LOGICS CONTROLLER. REFER TO ELECTRICAL PLAN ON SHEET SP-E1 FOR CONTINUATION.

waters edge
AQUATIC DESIGN

11205 W. 79th St.
Lenexa, KS 66214

t 913.438.4338
www.WeDesignPools.com

Kansas STATE CERTIFICATE OF AUTHORITY #E-990

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ARCHITECTURAL
URBAN PRAIRIE
COLLABORATIVE, P.C.

H&B
HOSS & BROWN
ENGINEERS

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1042 Project Number: 1820529
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City of WICHITA

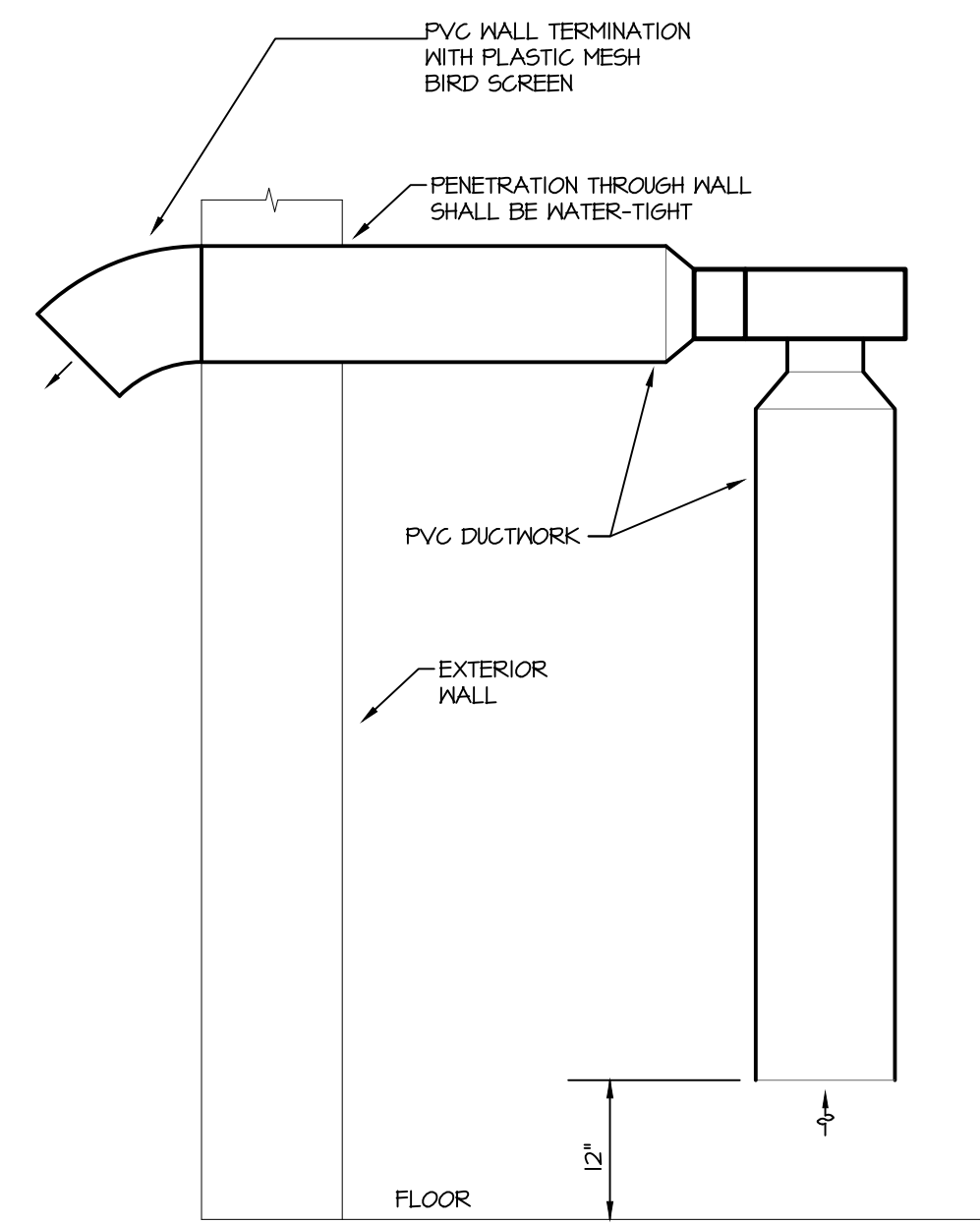
WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



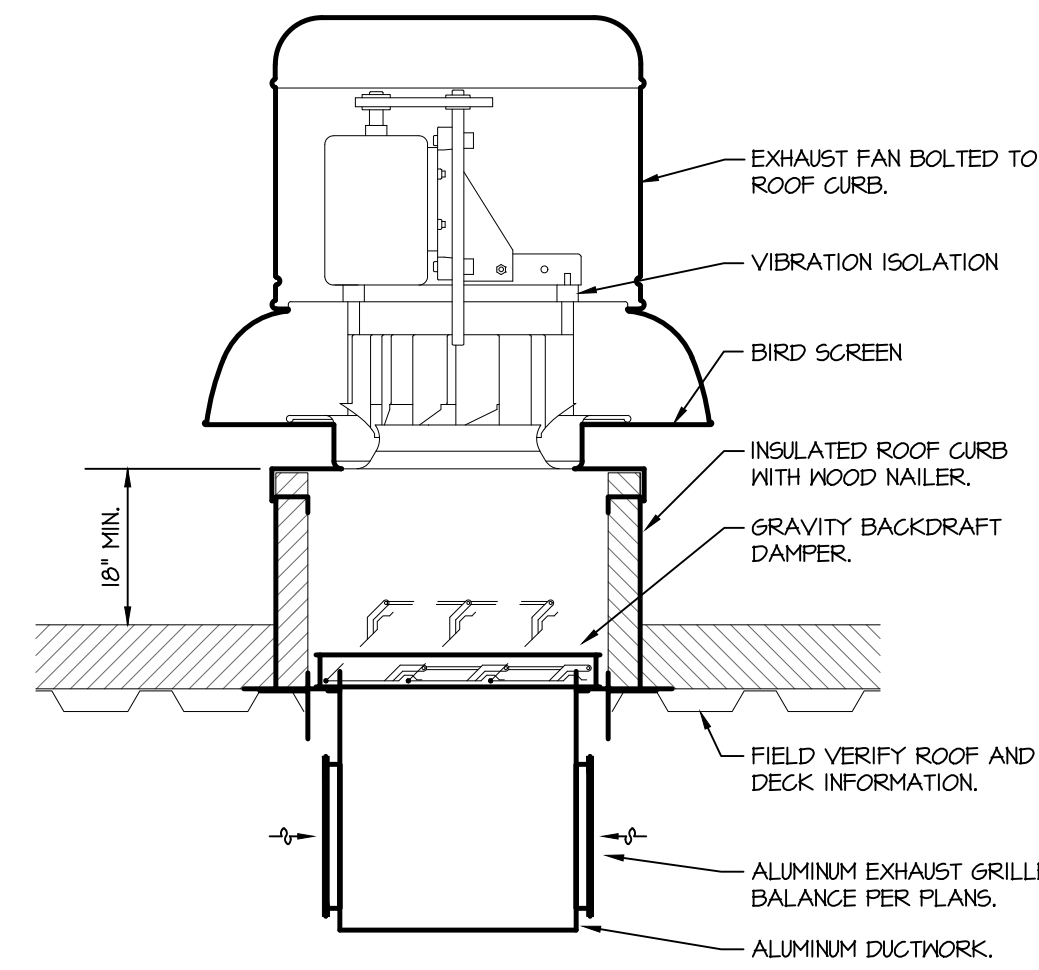
Casey JOHN STEINER
LICENSE #19423
Date: 2-21-20 Job #: 1820529
Drawn: CDW/JEM Checked: MST
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MEP SITE PLAN

SP-ME2
Water's Edge Aquatic Design
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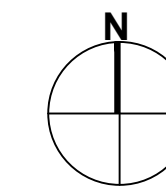
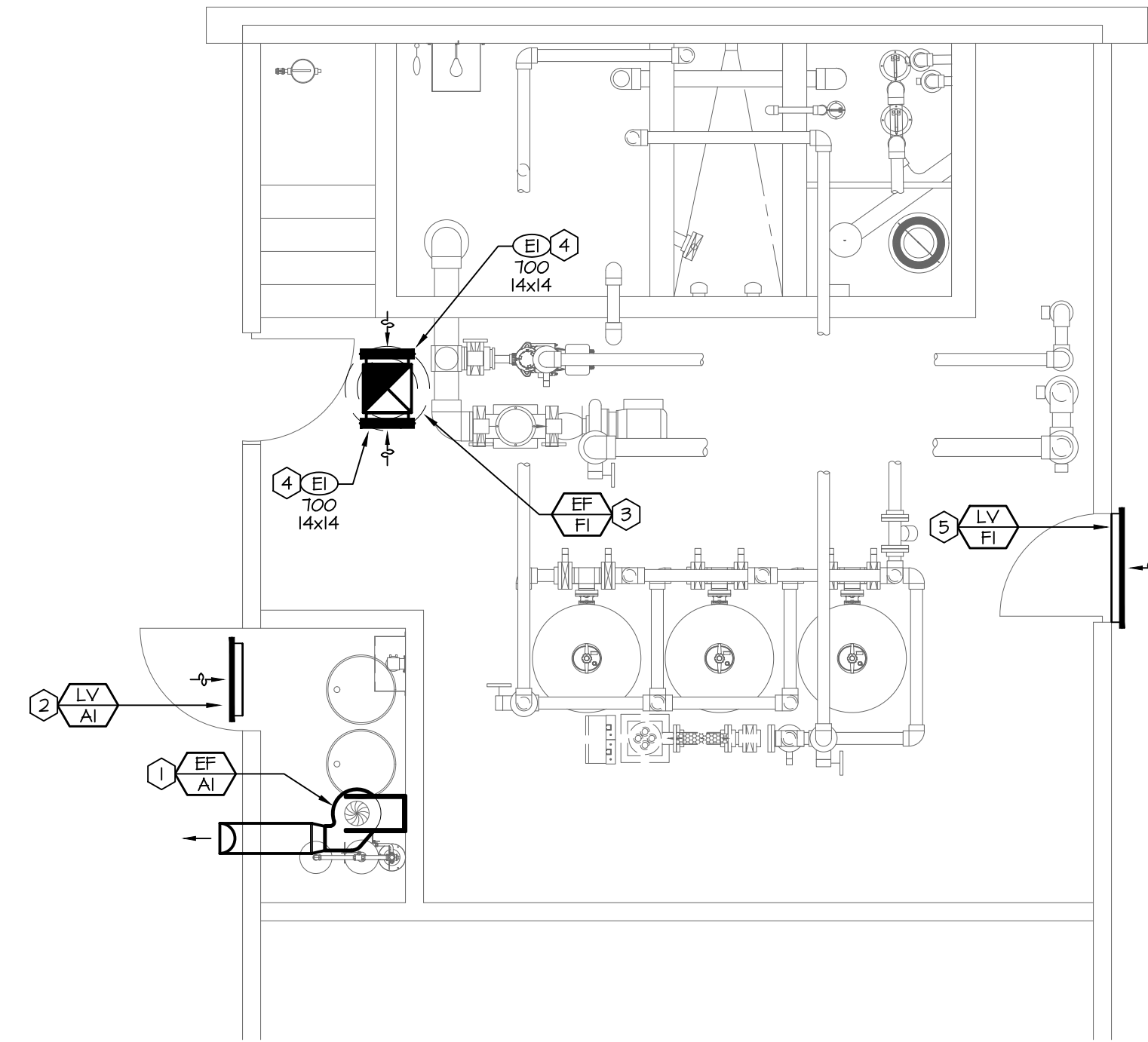


3 Chemical Exhaust Fan Detail
Scale: Not to Scale



- NOTES:**
- DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 - PROVIDE ROOF CURB OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 18" CLEARANCE FROM THE TOP OF THE CURB TO THE FINISHED ROOF.
 - BOTTOM OF ROOF CURB SHALL MATCH THE SLOPE OF THE ROOF SO THAT THE TOP OF ROOF CURB IS LEVEL. ATTACH FAN TO CURB PER MANUFACTURER'S RECOMMENDATIONS.
 - PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND ROOF MANUFACTURER'S REQUIREMENTS.
 - CURB INSTALLATION SHALL NOT VOID ROOF WARRANTY. COORDINATE ROOF WARRANTY WITH OWNER.

2 Roof Exhaust Fan Detail
Scale: Not to Scale



1 Mechanical Plan
Scale: 1/4" = 1'-0"

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	RPM	WATTS	HP	V/PH	NOTES
EF-AI	FANAM	CBI-200	650	0.5	DIRECT	1125	-	1/4	120/1	1
EF-FI	LOREN COOK	135C11DEC	1,400	0.15	DIRECT	1325	302	3/4	120/1	2

- NOTES:**
- FAN HOUSING AND WHEEL SHALL BE CONSTRUCTED OF POLYPROPYLENE.
 - PROVIDE FAN WITH ECM SPEED CONTROL IN THE FAN HOUSING.

LOUVER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	SIZE W x H (IN.)	AIRFLOW CFM	MIN. FREE AREA (S.F.)	MAX. PD INCHES WC	NOTES
LV-AI	ACTIVAR	1400 SERIES	INTAKE	24x18	500	1	-	1,2
LV-FI	ACTIVAR	1400 SERIES	INTAKE	36x18	1,400	2.25	-	1

- PLAN NOTES:**
- PROVIDE INSECT SCREEN
 - PROVIDE BACK OF LOUVER WITH BAKED ENAMEL FINISH.

- GENERAL NOTES:**
- PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION.
 - CUSTOM COLOR TO BE SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS.
 - PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
EI	TITUS	8F	EXHAUST	AS NOTED	AS NOTED	YES	1

- NOTES:**
- GRILLE AND ALL FASTENERS SHALL BE ALUMINUM.
- GENERAL NOTES (APPLY TO ALL ABOVE):**
- MAXIMUM NG OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
 - WHERE NOT NOTED, DIFFUSER NECK SIZE SHALL BE THE SAME AS THE BRANCH DUCT SIZE.

GENERAL NOTES:

- THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADII OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.
- DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
- COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
- ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

PLAN NOTES:

- PROVIDE CENTRIFUGAL FAN AS SCHEDULED MOUNTED HIGH IN CHEMICAL ROOM. PROVIDE 12" PVC PIPE DOWN TO APPROXIMATELY 12" AFF. JOG DUCTWORK TO BE TIGHT AGAINST WALL TO ALLOW FOR REMOVAL OF CHEMICAL CONTAINERS WHEN REQUIRED. DISCHARGE DUCTWORK SHALL HAVE FLEXIBLE CONNECTION. PROVIDE 10" PVC PIPE AND ROUTE TO EXTERIOR WALL. PROVIDE 10" PVC WALL TERMINATION WITH PLASTIC BIRD MESH GRILLE, SHITECH PROCESS SYSTEMS MODEL #1006-485-100 OR EQUAL. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.
- PROVIDE DOOR LOUVER AS SCHEDULED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOUVER LOCATION.
- PROVIDE ROOF-MOUNTED FAN AS SCHEDULED. EXTEND ALUMINUM DUCTWORK DOWN APPROXIMATELY 2'-0" INTO THE SPACE.
- PROVIDE ALUMINUM EXHAUST GRILLE AS SCHEDULED APPROXIMATELY 0'-2" ABOVE THE BOTTOM OF THE EXHAUST DUCT.
- PROVIDE LOUVER ABOVE DOOR AS SCHEDULED. CONTRACTOR SHALL FIELD VERIFY LOUVER SIZE THAT WILL COMPLETELY FILL THE SPACE ABOVE THE DOOR TRANSOM. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOUVER LOCATION.



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



CASEY JOHN STEINER
LICENSE #19423

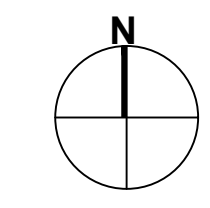
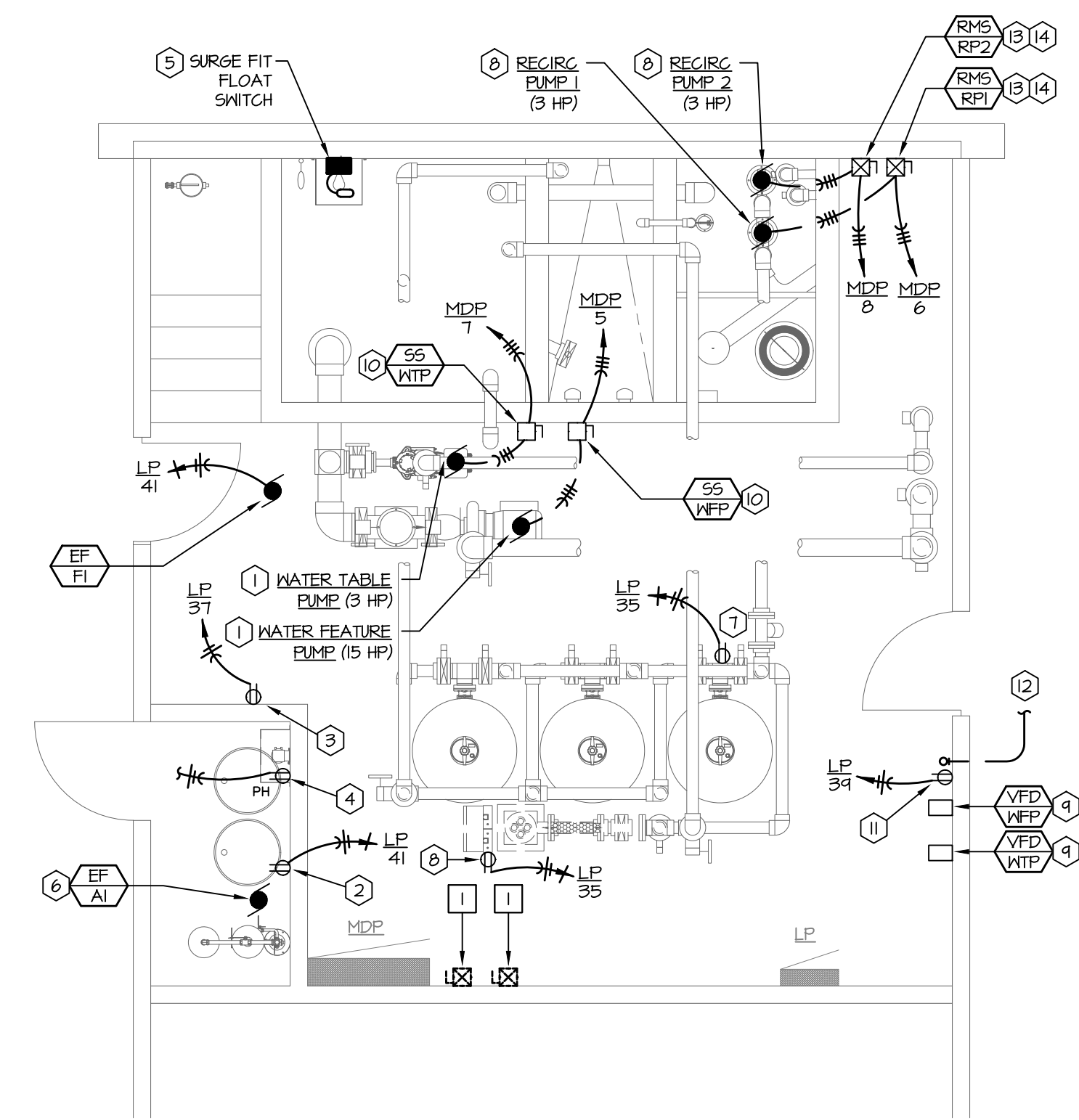
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Drawn: CDW Checked: MST

Issue: CONSTRUCTION DOCUMENTS

MECHANICAL PLAN,
DETAILS &
SCHEDULES

SP-M1



1 Electrical Plan
Scale: 1/4" = 1'-0"

GENERAL NOTES:

- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK; THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL RULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.
- C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- D. 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 MET LOCATION LISTED.
- E. ALL RECEPTACLES SHALL BE GFI PROTECTED UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, GFI BREAKERS OR RECEPTACLES MAY BE USED. RECEPTACLES SERVING CONCESSIONS REFRIGERATION EQUIPMENT, CHEMICAL CONTROLLERS, AND EXHAUST FANS SHALL NOT BE GFI PROTECTED.
- F. WHERE PHONE, DATA OR PHONE/DATA OUTLETS ARE SHOWN ON PLANS, CONTRACTOR SHALL PROVIDE A BACKBOX AND CONDUIT WITH FULL STRING BACK TO AN ACCESSIBLE LOCATION AT TELEPHONE BOARD FOR FUTURE WIRING INSTALLATION BY OWNER.
- G. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE SO AS NOT TO INTERFERE WITH THE PRESENT BUILDING OPERATION.
- H. REMOVE ALL ELECTRICAL ITEMS ON THE SITE AND IN THE FILTER, PUMP, AND CHEMICAL AREAS NO LONGER REQUIRED AFTER THE RENOVATION. THIS SHALL INCLUDE BUT IS NOT LIMITED TO PUMPS, FILTERS, STARTERS, FEEDERS, AND CONTROLS.

DEMO PLAN NOTES:

- 1. REMOVE PUMP MOTOR STARTERS AND ALL ELECTRICAL FEEDERS. PREPARE WIRING FOR INSTALLATION OF NEW PUMP FEEDERS.

PLAN NOTES:

- 1. ROUTE ALL FEEDERS BELOW GRADE BETWEEN VFD AND PUMP MOTOR. REFER TO VFD SCHEDULE FOR PUMP POWER INFORMATION.
- 2. EXHAUST FAN RECEPTACLE. COORDINATE EXACT HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 3. CHEMICAL CONTROLLER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHEMICAL CONTROLLER.
- 4. PH FEEDER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND PH FEEDER.
- 5. PROVIDE ZOELLER SWITCH-MATE PIGGYBACK VARIABLE LEVEL FLOAT SWITCH (VLF5). FLOAT SHALL BE NORMALLY OPEN (NO) OR NORMALLY CLOSED (NC) PER NOTES, BE RATED FOR 15A AT 120V, AND SHALL NOT CONTAIN MERCURY. COORDINATE MOUNTING HEIGHT WITH POOL ENGINEERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 6. PROVIDE 6'-0" NEMA PLUG AND COORDINATE FOR EXHAUST FAN.
- 7. PROVIDE 120V OUTLET FOR FLOW METER. MOUNT TO UNISTRUT APPROXIMATELY 48" AFF.
- 8. PROVIDE 120V OUTLET FOR UV EQUIPMENT. MOUNT TO UNISTRUT APPROXIMATELY 48" AFF.
- 9. ROUTE POWER THROUGH VFD PRIOR TO MAKING ELECTRICAL PANEL CONNECTION.
- 10. PROVIDE PUMP SAFETY SWITCH AT APPROXIMATELY 48" AFF. CONDUIT TO PUMP SHALL BE BELOW GRADE AND STUB UP AT PUMP. COORDINATE INSTALLATION WITH POOL CONTRACTOR.
- 11. PROVIDE 120V OUTLET FOR VORTEX SMARTFLOW CONTROLLERS.
- 12. PROVIDE (1) 3/4" SCHEDULE 40 PVC CONDUIT WITH (2) #12 CONTROL CONDUCTORS OUT TO WATER FEATURES ACTIVATION BOLLARD. REFER TO SITE PLAN ON SHEET SP-ME2 FOR CONTINUATION.
- 13. COORDINATE REQUIREMENTS FOR REGIRCULATING SUMP PUMP CONTROLS WITH POOL ENGINEER.
- 14. PROVIDE PUMP COMBINATION SAFETY SWITCH MOTOR STARTER AT APPROXIMATELY 48" AFF. CONDUIT TO PUMP SHALL BE BELOW GRADE AND STUB UP AT PUMP. COORDINATE INSTALLATION WITH POOL CONTRACTOR.



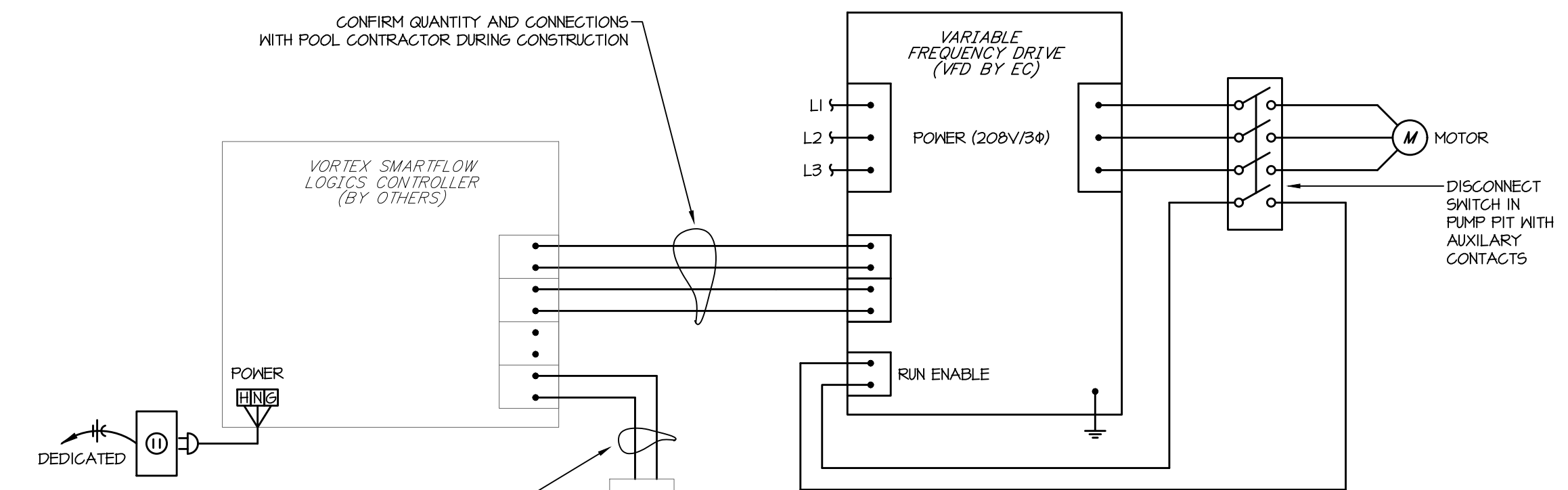
WICHITA, KANSAS
 Spray Ground
 EVERGREEN PARK



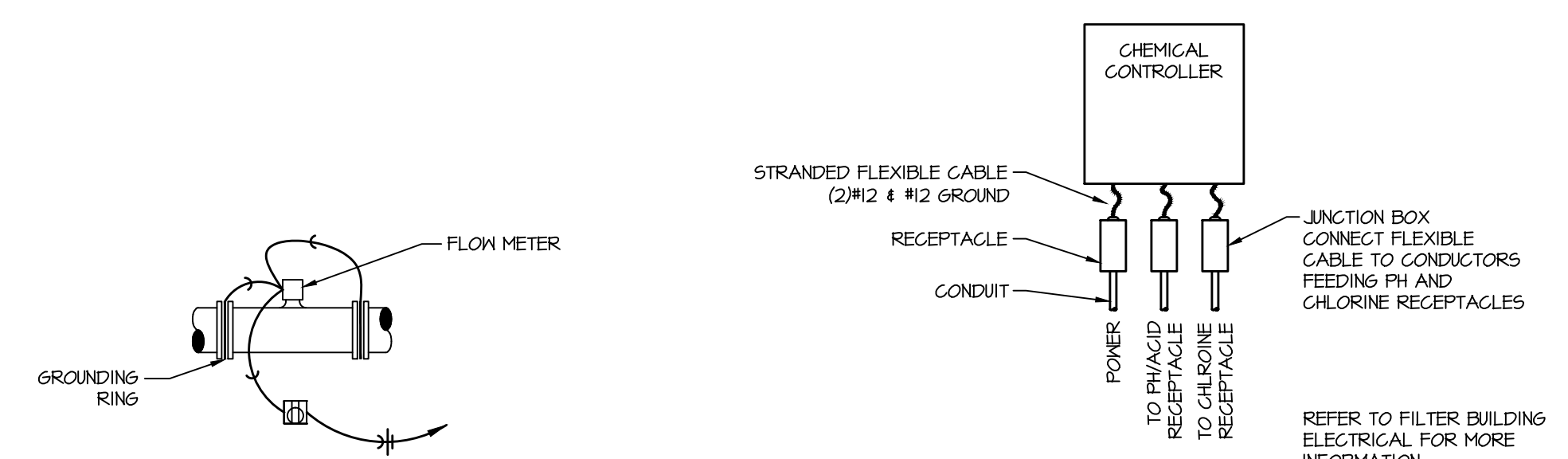
CASEY JOHN STEINER
LICENSE #19423
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ELECTRICAL
PLAN

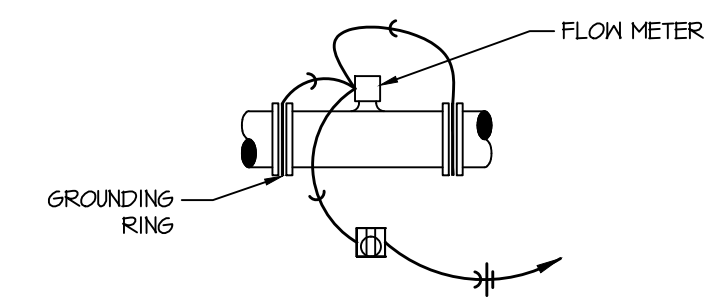
SP-E1



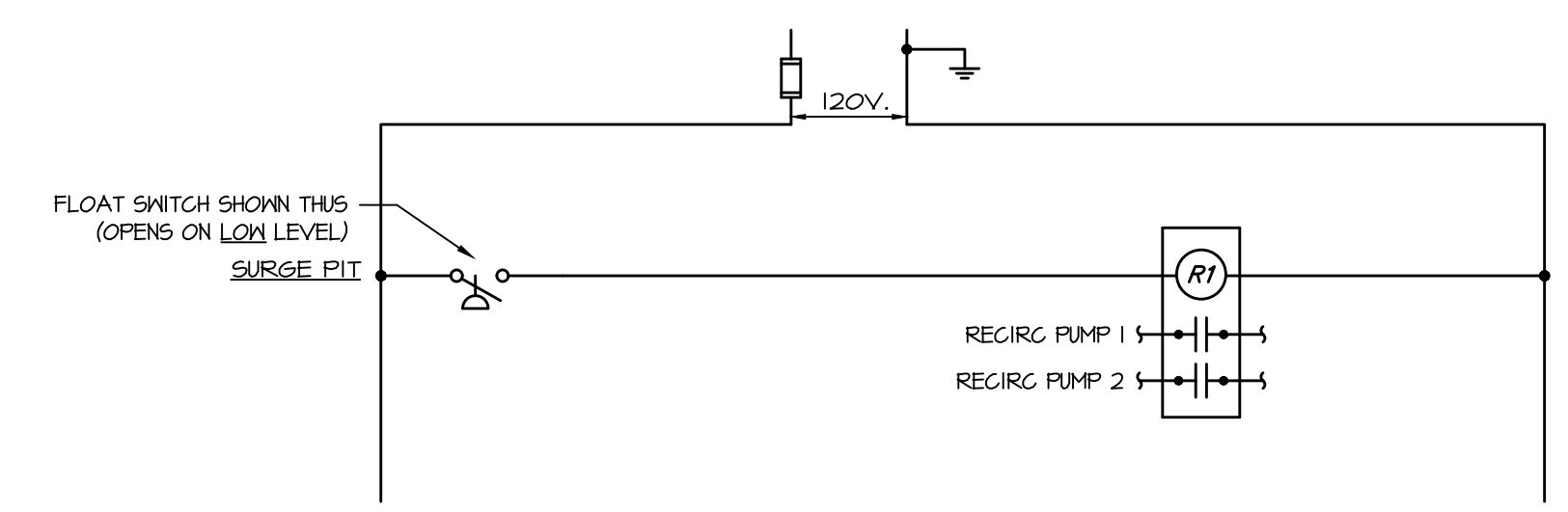
1 VFD Control Schematic (VFD-WFP, VFD-WTP)
Scale: None



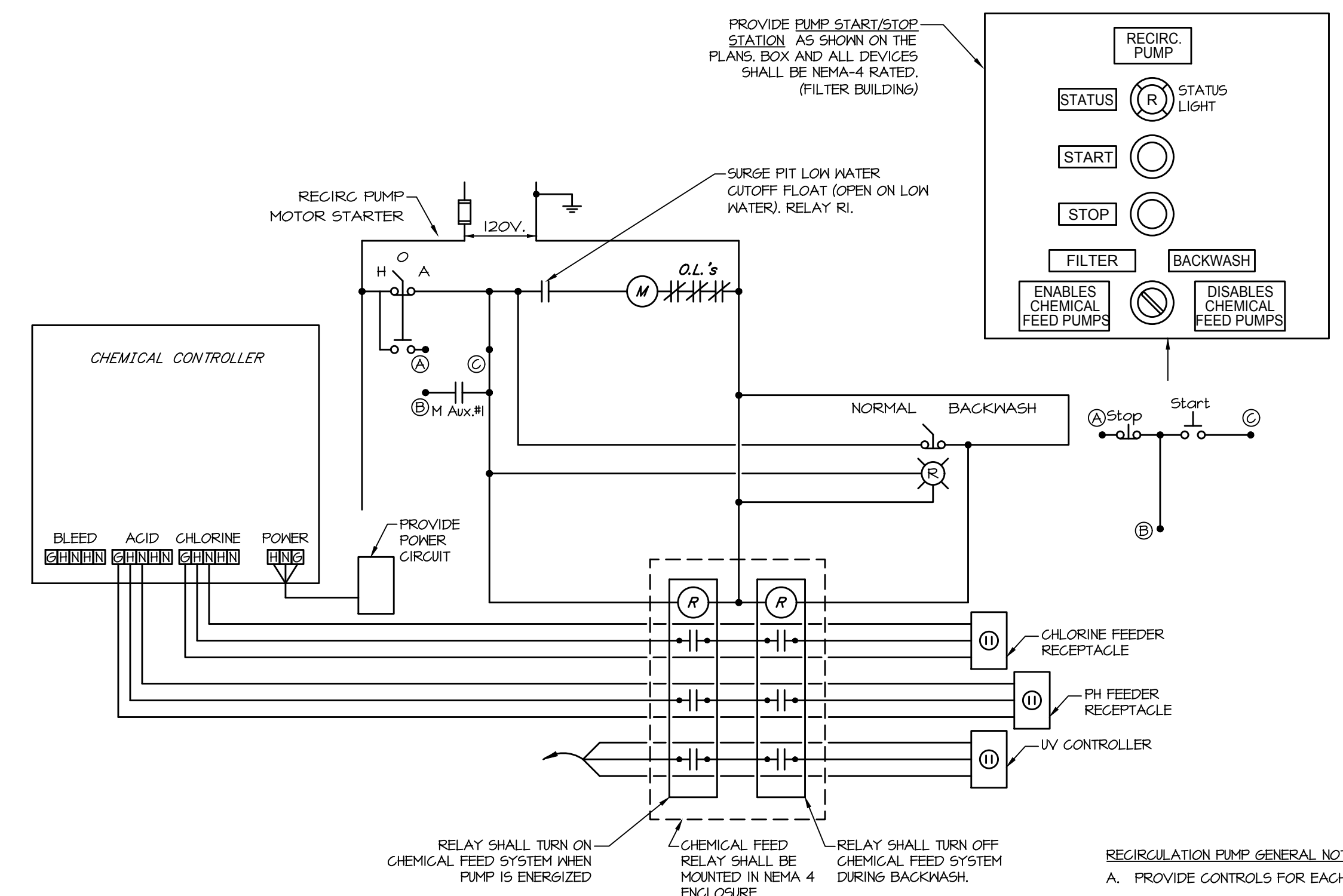
2 Chemical Controller Schematic
Scale: None



3 Flow Meter Grounding Detail
Scale: None



5 Motor Control Schematic
Scale: None



4 Recirculation Pump Control Schematic (RMS-RP1, RMS-RP2)
Scale: None

RECIRCULATION PUMP GENERAL NOTES:
A. PROVIDE CONTROLS FOR EACH RECIRCULATION PUMP.

ELECTRICAL CONTRACTOR IS TO PROVIDE POOL PUMP CONTROLS, POOL PUMP CONTROLS, FLOAT SWITCHES, STARTERS, VFDS AND SWITCHES ARE NOT PROVIDED BY THE POOL CONTRACTOR.



WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



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ELECTRICAL DETAILS

SP-E2
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WICHITA, KANSAS
Spray Ground
EVERGREEN PARK



CASEY JOHN STEINER
LICENSE #19423

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ELECTRICAL
DETAILS AND
RISER DIAGRAM

SP-E3

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VARIABLE FREQUENCY DRIVE SCHEDULE

208 VOLT / 3 PHASE

MARK	DESCRIPTION	HP	LOAD	OCPD AMPS	POLES	NEMA ENCL.	CONDUCTORS	NOTES
VFD-WFP	WATER FEATURE PUMP	15	22,405	110	3	4X	(3) #4 & #6G, IN 1" C.	-
VFD-WTP	WATER TABLE PUMP	3	3,820	25	3	4X	(3) #12 & #12G, IN 3/4" C.	-

GENERAL NOTES (APPLIES TO ALL ABOVE):

- A. VFD SHALL BE DANFOSS, MODEL #VLT OR EQUIVALENT APPROVED BY ENGINEER PRIOR TO BID. CONTRACTOR SHALL VERIFY VFD CLEARANCES PRIOR TO ORDERING. ALTERNATE DRIVE MANUFACTURERS WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM ENGINEER.
- B. OCPD AMPACITIES ARE LISTED FOR FUSES/CIRCUIT BREAKER.
- C. VFD SHALL HAVE INTEGRAL FUSED DISCONNECT.

REMOTE MOTOR STARTER SCHEDULE

208 VOLT / 3 PHASE

MARK	DESCRIPTION	HP	LOAD	POLES	STARTER CONTROL			CONDUCTORS	NOTES
					SIZE	P.B.	HOA PILOT		
RM6-SPI	RECIRCULATION PUMP 1	3	3,820	3	0	X	X	X	(3) #10 & #10G, IN 3/4" C.
RM6-SF2	RECIRCULATION PUMP 2	3	3,820	3	0	X	X	X	(3) #10 & #10G, IN 3/4" C.

GENERAL NOTES (APPLIES TO ALL ABOVE):

- A. PROVIDE REMOTE MOTOR STARTERS AS SCHEDULED. REFERENCE DETAILS ON SHEET SP-E2 FOR ADDITIONAL INFORMATION.
 - B. REMOTE SOFT START MOTOR STARTER SHALL BE IN A NEMA-3R ENCLOSURE.
- NOTES:**
- I. PROVIDE REMOTE MOTOR STARTER WITH AN INTEGRAL DISCONNECT SWITCH.

SAFETY SWITCH SCHEDULE

SAFETY SWITCH TAG	DESCRIPTION	VOLTS	HP	DISC. AMPS	FUSE AMPS	NEMA TYPE	POLE/WIRES	CONDUCTORS	NOTES
SS-WFP	WATER FEATURE PUMP	600	15	200	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	I
SS-WTP	WATER TABLE PUMP	600	3	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	I

GENERAL NOTES (APPLIES TO ALL ABOVE):

- A. SAFETY SWITCHES SHALL BE HEAVY DUTY.

NOTES:

- I. PROVIDE DISCONNECT WITH AUXILIARY CONTACTS FOR INTERCONNECTION WITH VFD AND/OR PUMP CONTROLLER.

MAIN DISTRIBUTION PANEL (EXISTING)

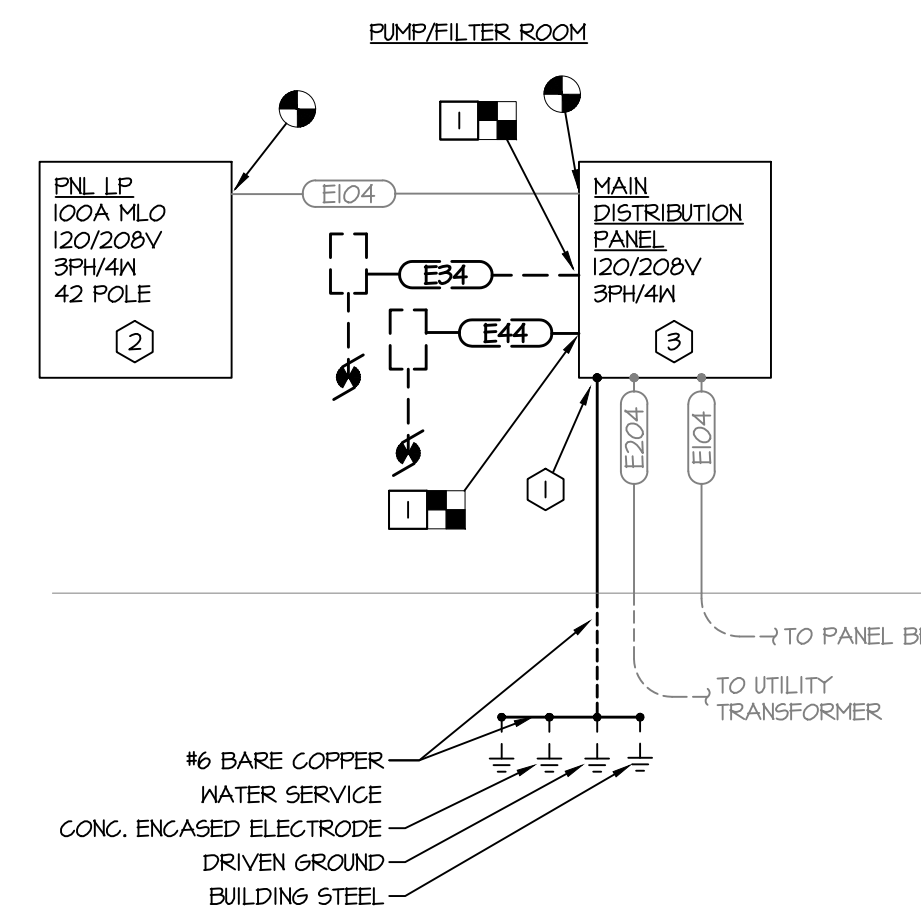
DESCRIPTION: 200AMP MAIN CIRCUIT BREAKER
120/208V, 3PH 4WIRE
SURFACE MOUNTING

CONNECTED LOAD: 208 AMPS
DEMAND LOAD: 238 AMPS

65 KAIC
75,045 WATTS
85,646 WATTS

NO	LOAD DESCRIPTION	P	AMP SIZE	FEEDER	CONNECTED		DEMAND	
					LOAD (W)	LOAD (A)	LOAD (W)	LOAD (A)
1	PANEL LP	3	100	(4)#3 + GND IN 1-1/2" C.	28,000	75	33,000	92
2	PANEL BP	3	60	(4)#3 + GND IN 1-1/2" C.	11,000	41	11,000	41
3	SPARE (REMOVED PUMP)	3	100	-	0	0	0	0
4	SPARE (REMOVED PUMP)	3	60	-	0	0	0	0
5	WATER FEATURE PUMP (15 HP)	3	110	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	22,405	62	28,006	78
6	RECIRCULATION PUMP 1 (3 HP)	3	30	SEE REMOTE MOTOR STARTER SCHEDULE	3,820	11	3,820	11
7	WATER TABLE PUMP (3 HP)	3	30	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	3,820	11	3,820	11
8	RECIRCULATION PUMP 2 (3 HP)	3	30	SEE REMOTE MOTOR STARTER SCHEDULE	3,820	11	3,820	11

- * PROVIDE NEW BREAKER AS INDICATED.
- ** CONTRACTOR SHALL METER MAIN DISTRIBUTION PANEL AND REPORT EXISTING LOAD BACK TO ENGINEER FOR ANALYSIS / POTENTIAL REPLACEMENT.



1 Electrical Riser Diagram
Scale: None

RISER DEMO WORK NOTES:

- 1. MOTOR, STARTER, & FEEDER - DISCONNECT MOTOR, MOTOR STARTER, AND FEEDERS ASSOCIATED WITH EXISTING PUMP. PREPARE WIRERAY FOR INSTALLATION OF NEW PUMP PANEL 'BU'.

RISER NEW WORK NOTES:

- 1. GROUNDING - VERIFY SERVICE ENTRANCE EQUIPMENT IS GROUND PER THE GROUNDING ELECTRODE SYSTEM REQUIREMENTS SET FORTH IN NEC 250.50. ANY BARE GROUNDING ELECTRODE CONDUCTOR THAT IS OXIDIZED SHALL BE REPLACED WITH AN INSULATED GROUNDING ELECTRODE CONDUCTOR IN SCHEDULE 80 PVC CONDUIT.
- 2. PANEL LP - CONTRACTOR SHALL PROVIDE NEW 100A MLO, 120/208V, 10KAIC, 42 POLE REPLACEMENT NEMA 1 PANELBOARD. THE CONTRACTOR SHALL SALVAGE THE PANEL BOX AND RE-USE IF IN ACCEPTABLE CONDITION. EXISTING FEEDERS SHALL BE RE-USED.
- 3. MAIN DISTRIBUTION PANEL - CONTRACTOR SHALL PROVIDE NEW 200A MCB, 120/208V, 22KAIC, 8 SECTION REPLACEMENT NEMA 1 DISTRIBUTION PANEL.

FEEDER SCHEDULE:

- E204 (4)#3/0 IN 3" CONDUIT
- E104 (4)#1/0 IN 2" CONDUIT
- E44 (4)#8 IN 1" CONDUIT
- E34 (4)#10 IN 3/4" CONDUIT

PANEL LP (EXISTING)

DESCRIPTION: 100A MLO
100% Neutral Bus
NEMA 3R Enclosure

VOLTAGE: 120/208V, 3PH, 4 WIRE

10 KAIC RATING

TOTAL CONNECTED LOAD: 28kW 77A
DEMANDED LOAD CONTINUOUS: 33kW 92A

NO	LOAD (W)	LOAD DESCRIPTION	AMP P SIZE	AMP P SIZE	LOAD DESCRIPTION	LOAD (W)	NO	
1	1000	POOL LTS	2	20	A 20	1000	2	
3	1000	-	-	B	-	1000	4	
5	1000	POOL LTS	2	20	C 20	1000	6	
7	1000	-	-	A	-	1000	8	
9	1000	POOL LTS	2	20	B 20	1000	10	
11	1000	-	-	C	-	1000	12	
13	1000	POOL LTS	2	20	A 20	0	14	
15	1000	-	-	B	-	0	16	
17	1000	POOL LTS	2	20	C	0	18	
19	1000	-	-	A 20	2	1000	20	
21	0	SPACE	-	B	-	1000	22	
23	180	PHOTO CELL	1	20	C 20	1	3-POLE LTS BY OFFICE	
25	1000	SUMP	1	20	A 20	2	EPMNT RM LTS	
27	1000	UNKNOWN LOAD	2	20	B	-	1000	
29	1000	-	-	C 20	1	1000	30	
31	0	OZONE	1	20	A 20	1	POLE LTS	
33	0	SPACE	-	B 20	2	0	SPARE	
35	360	RCPT - FLOW METER / UV	1	20	C	-	0	36
37	180	RCPT - CHEM CONTROLLER	1	20	A 20	2	0	38
39	180	RCPT - VORTEX CONTROL	1	20	B	-	0	40
41	1000	EXHAUST FANS	1	20	C	-	0	42

- * PROVIDE NEW BREAKER AS INDICATED.
- ** PROVIDE NEW GFI BREAKER AS INDICATED.