



WICHITA, KANSAS

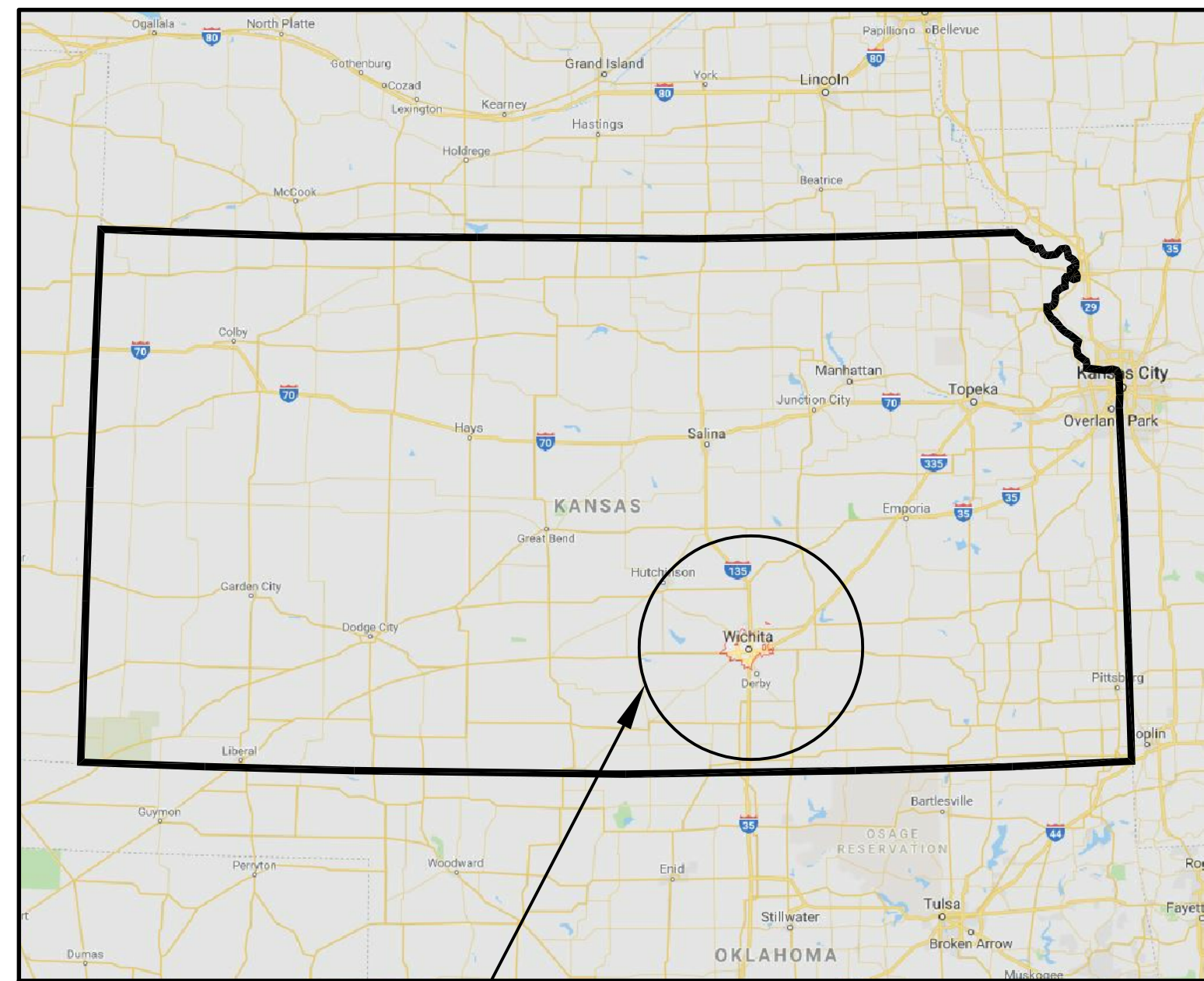
Spray Ground

EDGEMOOR PARK

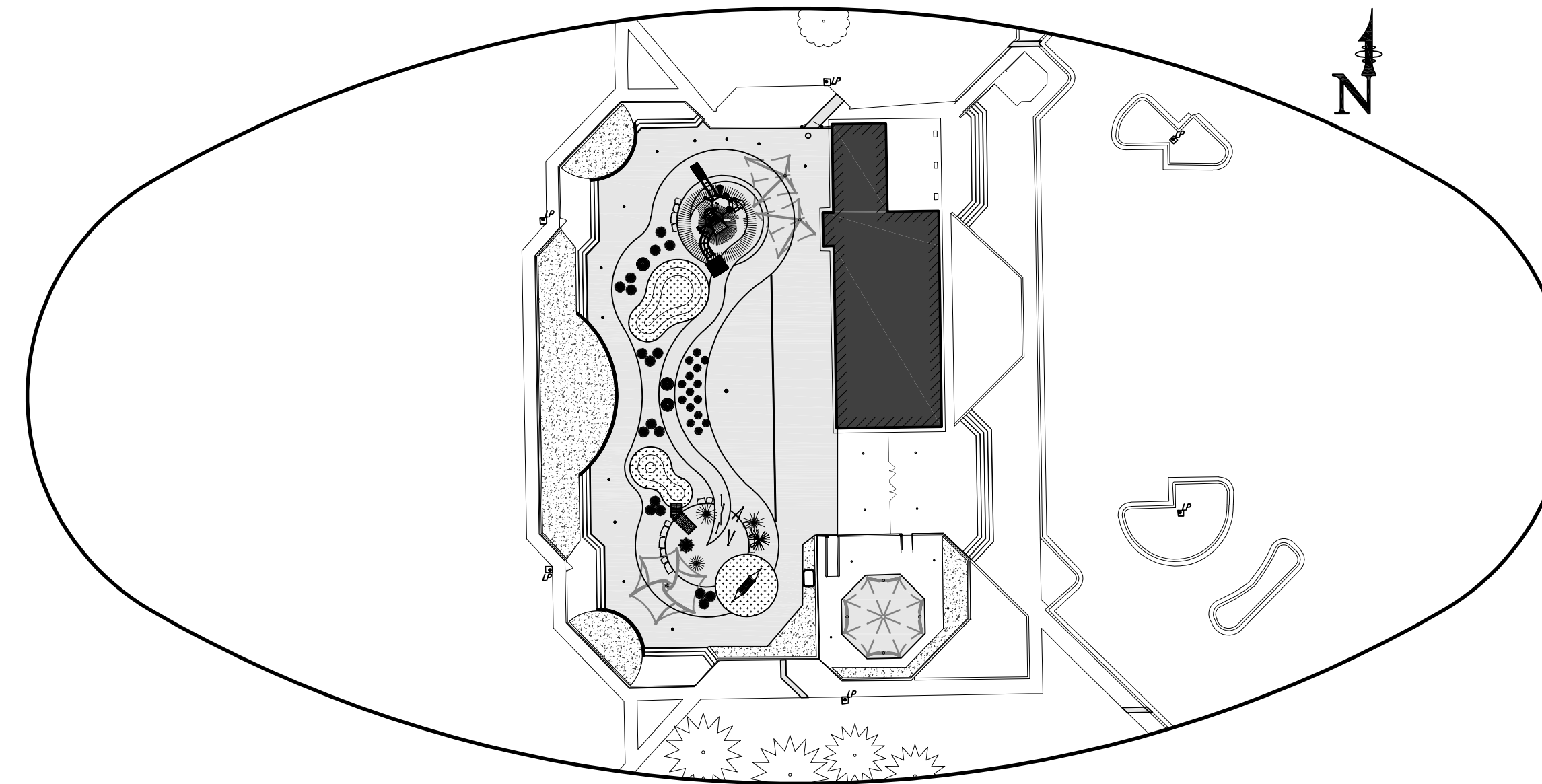
2020



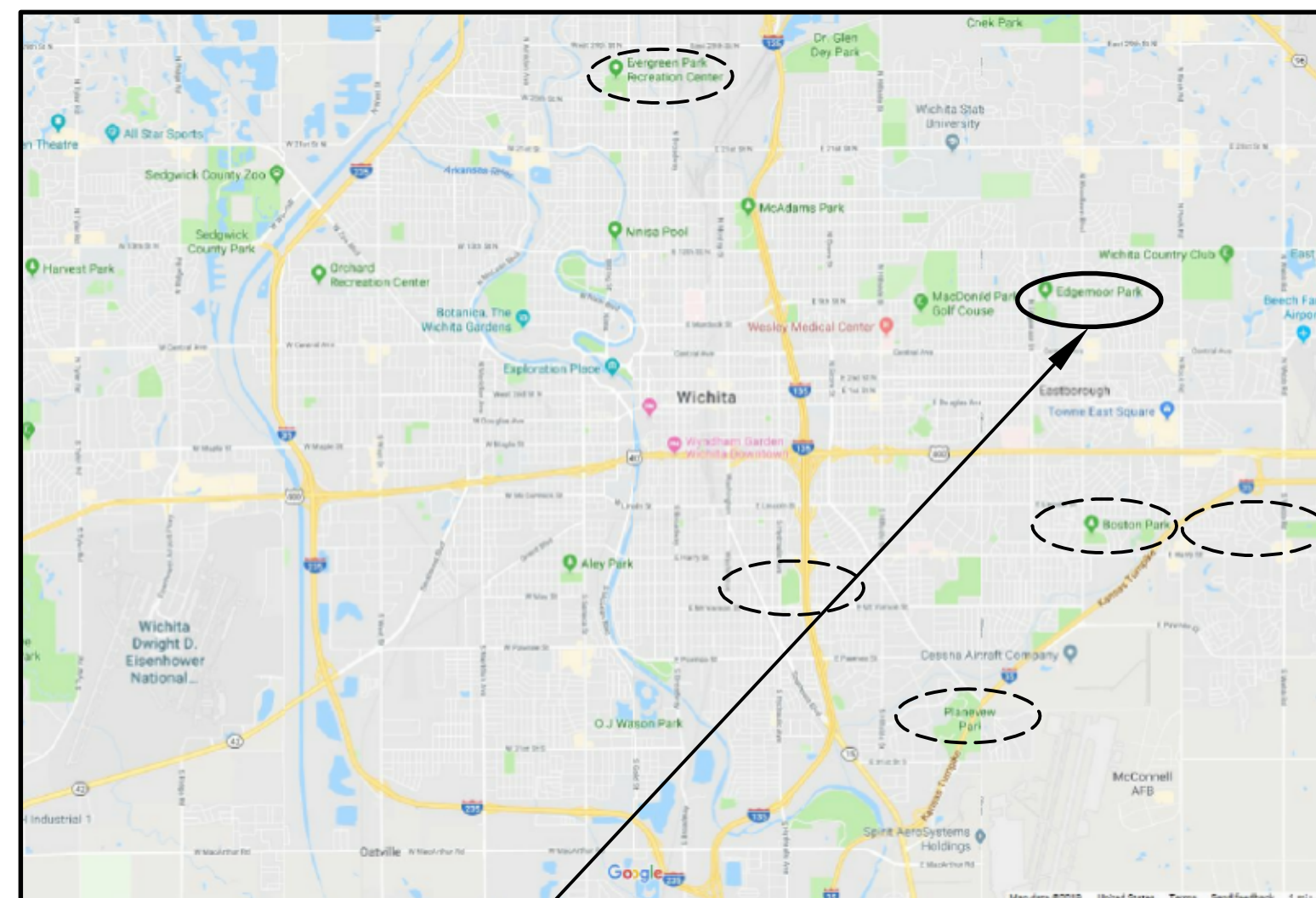
CITY OF WICHITA
 Project Number 482-11015
 OCA Number 796065



PROJECT AREA



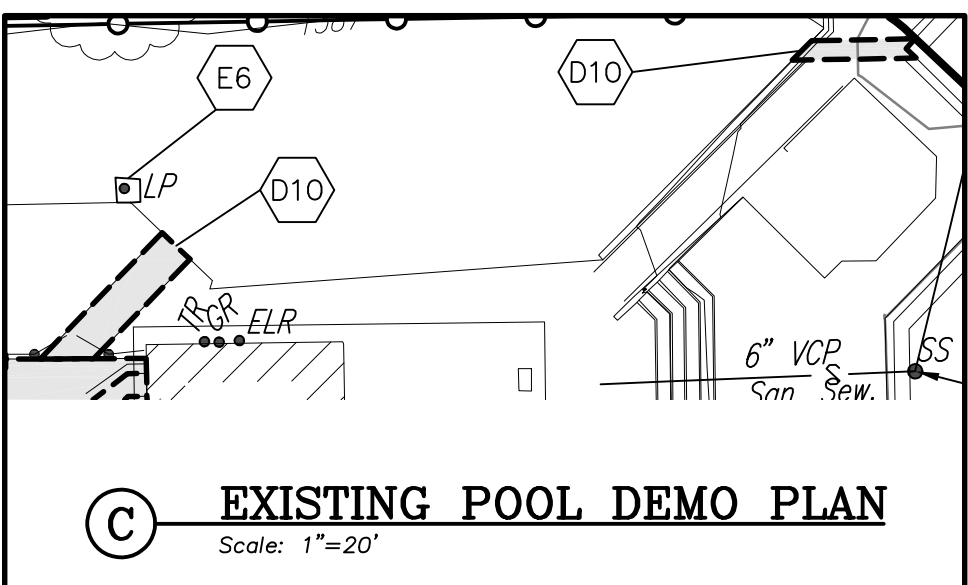
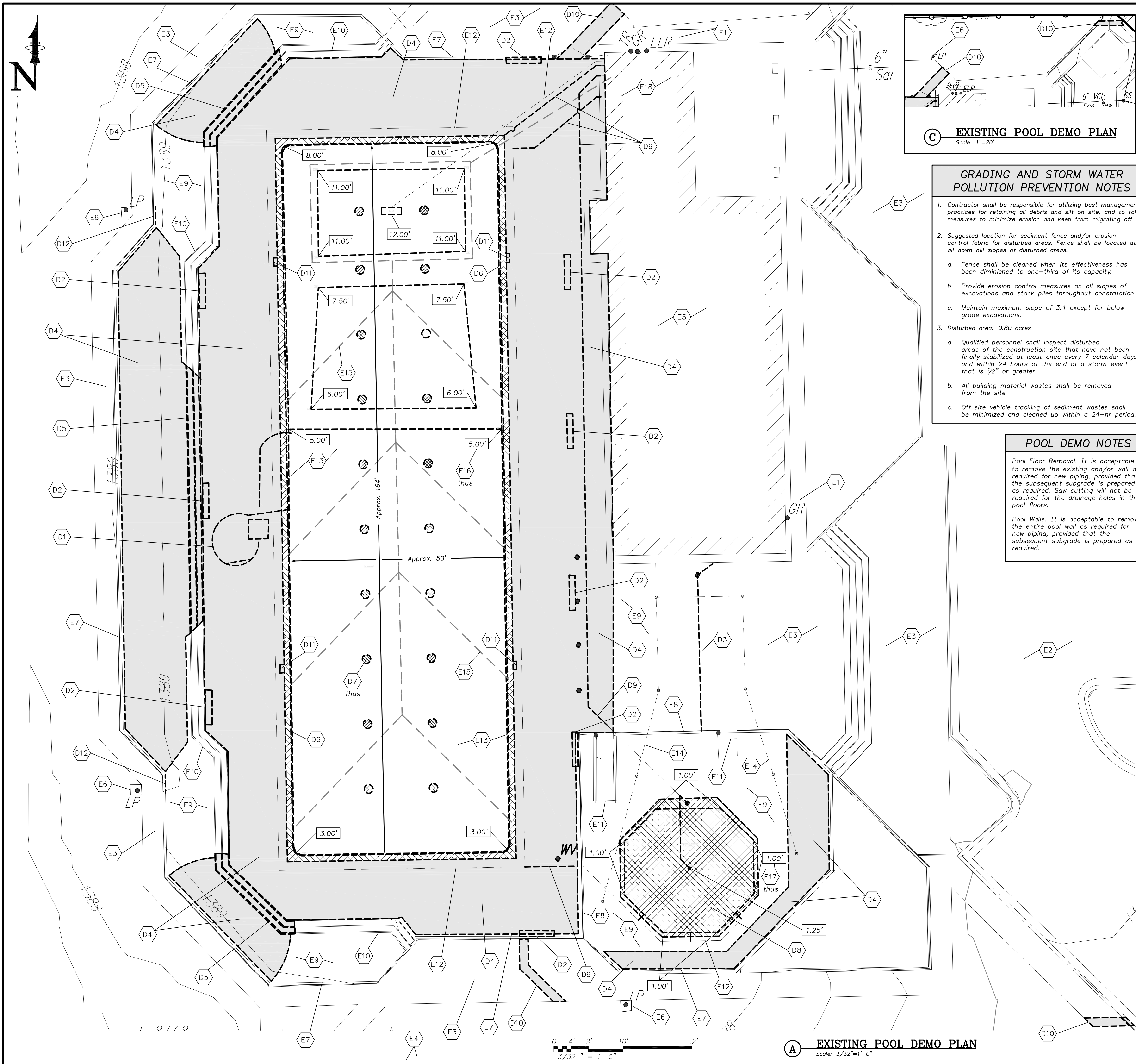
SPRAY GROUND LAYOUT



PROJECT LOCATION
 5813 East 9th Street North
 Wichita, KS 67208

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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	



GRADING AND STORM WATER POLLUTION PREVENTION NOTES

- Contractor shall be responsible for utilizing best management practices for retaining all debris and silt on site, and to take measures to minimize erosion and keep from migrating off site.
- Suggested location for sediment fence and/or erosion control fabric for disturbed areas. Fence shall be located at all down hill slopes of disturbed areas.
 - Fence shall be cleaned when its effectiveness has been diminished to one-third of its capacity.
 - Provide erosion control measures on all slopes of excavations and stock piles throughout construction.
 - Maintain maximum slope of 3:1 except for below grade excavations.
- Disturbed area: 0.80 acres
 - Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized at least once every 7 calendar days and within 24 hours of the end of a storm event that is 1/2" or greater.
 - All building material wastes shall be removed from the site.
 - Off site vehicle tracking of sediment wastes shall be minimized and cleaned up within a 24-hr period.

POOL DEMO NOTES

Pool Floor Removal. It is acceptable to remove the existing and/or wall as required for new piping, provided that the subsequent subgrade is prepared as required. Saw cutting will not be required for the drainage holes in the pool floors.

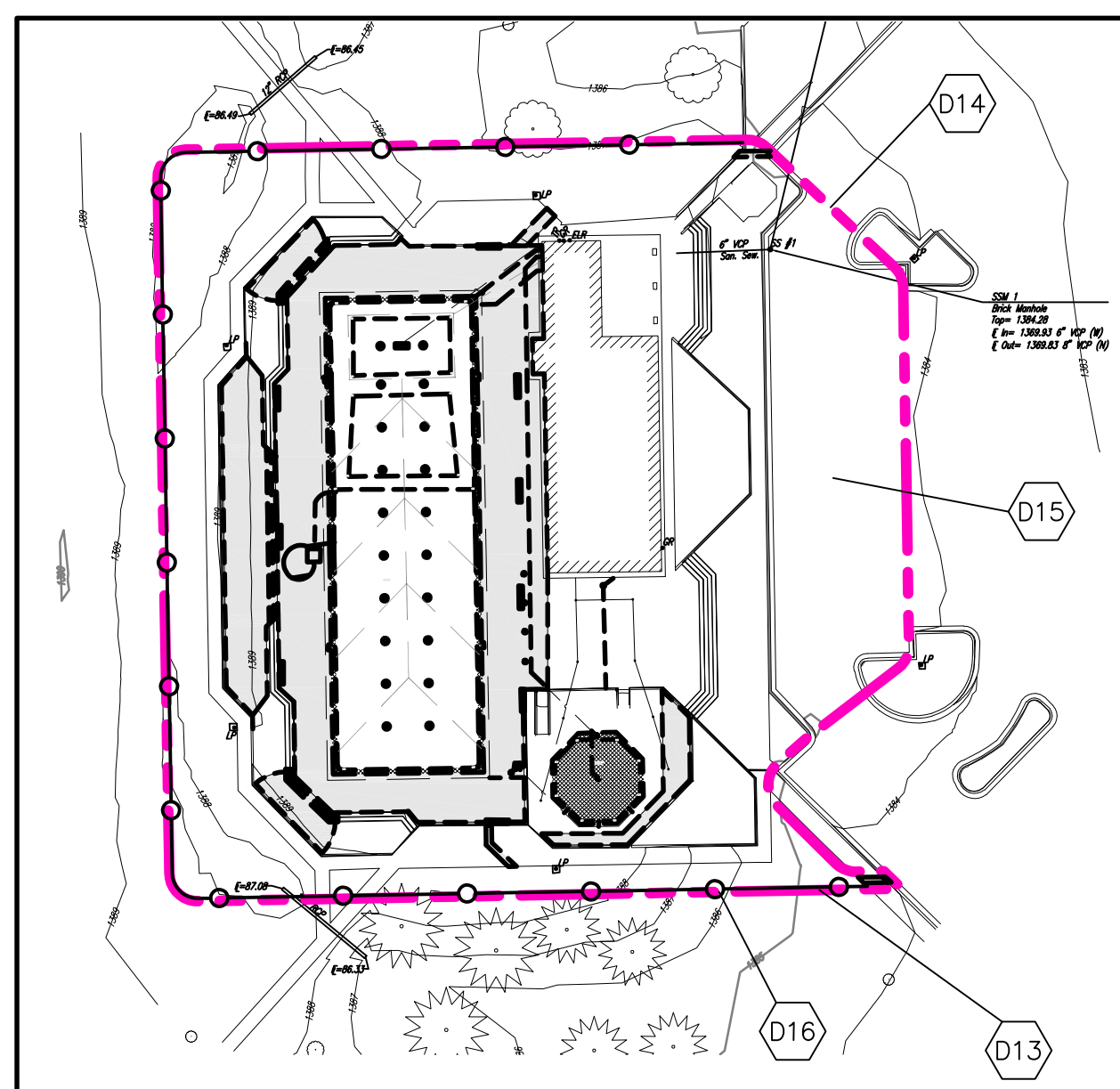
Pool Walls. It is acceptable to remove the entire pool wall as required for new piping, provided that the subsequent subgrade is prepared as required.

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 light pole shall be protected
 - E7 Existing 6'-0" tall chain link fence and 12" wide concrete strip of pool deck shall be protected
 - E8 Existing 4'-0" tall chain link fence shall be protected
 - E9 Existing pool deck shall be protected ~ See Landscape Architect Sheets for limits
 - E10 Existing pool deck step seating shall be protected ~ See Landscape Architect Sheets for limits
 - E11 Existing pool deck ramp and steps shall be protected
 - E12 Existing pool piping may remain if it does not interfere with new construction ~ Exposed open ends shall be capped
 - E13 Existing pool floor & walls shall be protected ~ See Detail A-SP-PM2
 - E14 Existing deck drain pipe shall be protected
 - E15 Existing underdrain pipe shall be protected
 - E16 Existing approximate pool water depths (2" freeboard)
 - E17 Existing approximate wading pool water depths (5" freeboard, pool wall 12" above deck)
 - E18 Existing Filter Area ~ See Sheet SP-F1

- DEMOLITION ITEMS**
- D1 Remove existing water slides
 - D2 Remove existing bench
 - D3 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
 - D4 Remove existing pool deck ~ See Detail A-SP-PM2 ~ See Landscape Architect Sheets for limits
 - D5 Remove existing pool deck step seating ~ See Landscape Architect Sheets for limits
 - D6 Remove existing portions of pool wall ~ See Detail A-SP-PM2
 - D7 Remove existing portions of pool floor to allow for drainage ~ See Detail A-SP-PM2
 - D8 Remove existing wading pool
 - D9 Remove existing piping as required for new construction ~ Exposed open ends shall be capped
 - D10 Remove existing sidewalk and curb/gutter to allow for drain piping
 - D11 Remove existing grab rails, protect and deliver to Owner
 - D12 Remove existing fence as required for new gate
 - D13 Construction limits
 - D14 Construction access
 - D15 Construction staging
 - D16 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
EDGEMOOR PARK

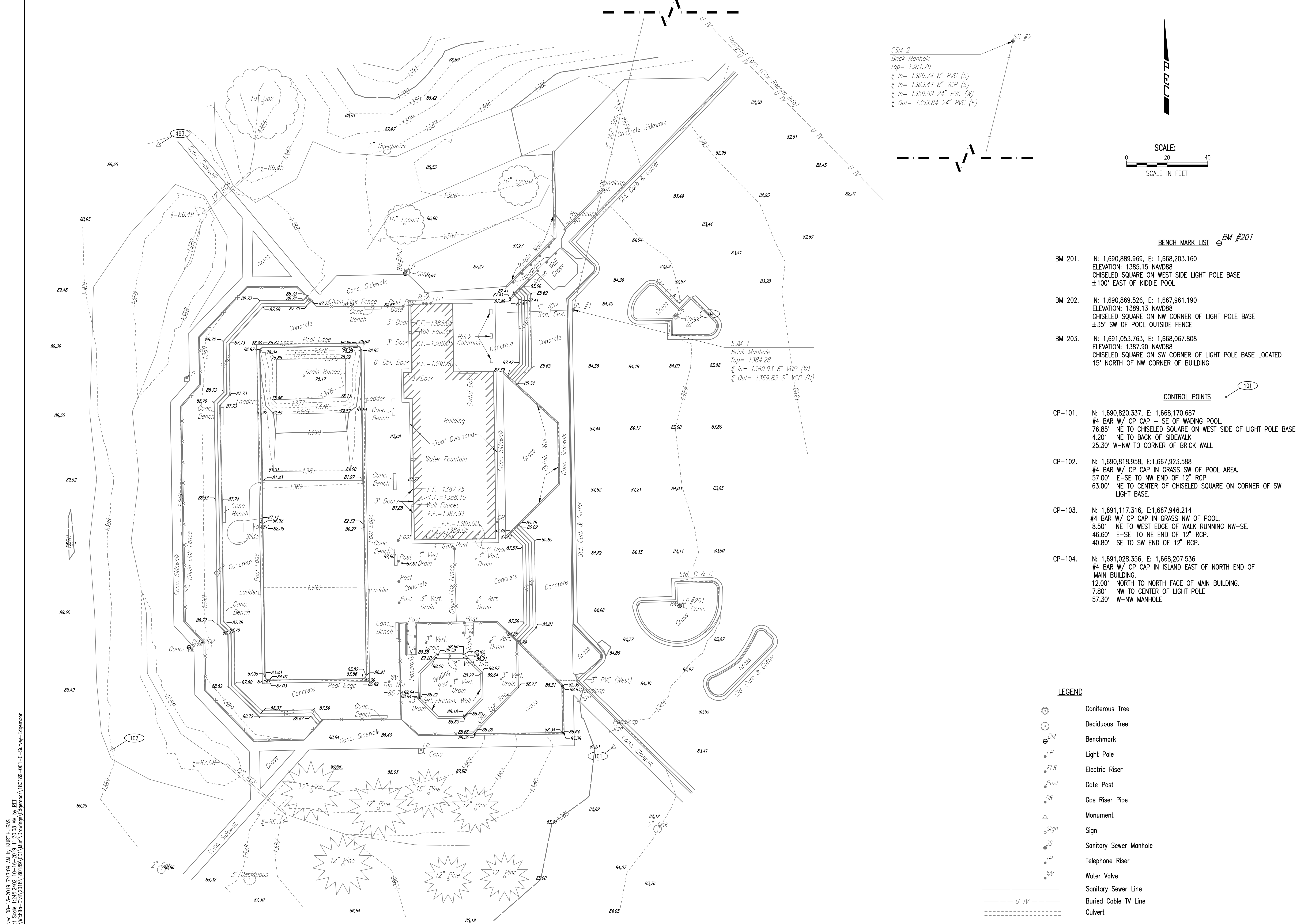
WICHITA

Seal: **JEFF A. BARTLEY LICENSED PROFESSIONAL ENGINEER**
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 © 2020



SSM 2
 Brick Manhole
 Top = 1381.79
 In = 1366.74 8" PVC (S)
 In = 1363.44 8" VCP (S)
 In = 1359.89 24" PVC (W)
 Out = 1359.84 24" PVC (E)

SSM 1
 Brick Manhole
 Top = 1384.28
 In = 1369.93 6" VCP (W)
 Out = 1369.83 8" VCP (N)

SCALE:
 0 20 40
 SCALE IN FEET

BENCH MARK LIST BM #201

- BM 201. N: 1,690,889.969, E: 1,668,203.160
 ELEVATION: 1385.15 NAVD88
 CHISELED SQUARE ON WEST SIDE LIGHT POLE BASE
 ±100' EAST OF KIDDIE POOL
- BM 202. N: 1,690,869.526, E: 1,667,961.190
 ELEVATION: 1389.13 NAVD88
 CHISELED SQUARE ON NW CORNER OF LIGHT POLE BASE
 ±35' SW OF POOL OUTSIDE FENCE
- BM 203. N: 1,691,053.763, E: 1,668,067.808
 ELEVATION: 1387.90 NAVD88
 CHISELED SQUARE ON SW CORNER OF LIGHT POLE LOCATED
 15' NORTH OF NW CORNER OF BUILDING

CONTROL POINTS

- CP-101. N: 1,690,820.337, E: 1,668,170.687
 #4 BAR W/ CP CAP - SE OF WADING POOL.
 76.85' NE TO CHISELED SQUARE ON WEST SIDE OF LIGHT POLE BASE
 4.20' NW TO BACK OF SIDEWALK
 25.30' W-NW TO CORNER OF BRICK WALL
- CP-102. N: 1,690,818.958, E: 1,667,923.588
 #4 BAR W/ CP CAP IN GRASS SW OF POOL AREA.
 57.00' E-SE TO NW END OF 12" RCP
 63.00' NE TO CENTER OF CHISELED SQUARE ON CORNER OF SW
 LIGHT BASE.
- CP-103. N: 1,691,117.316, E: 1,667,946.214
 #4 BAR W/ CP CAP IN GRASS NW OF POOL.
 8.50' NE TO WEST EDGE OF WALK RUNNING NW-SE.
 46.60' E-SE TO NE END OF 12" RCP.
 40.80' SE TO SW END OF 12" RCP.
- CP-104. N: 1,691,028.356, E: 1,668,207.536
 #4 BAR W/ CP CAP IN ISLAND EAST OF NORTH END OF
 MAIN BUILDING.
 12.00' NORTH TO NORTH FACE OF MAIN BUILDING.
 7.80' NW TO CENTER OF LIGHT POLE
 57.30' W-NW MANHOLE

LEGEND

- Coniferous Tree
- Deciduous Tree
- Benchmark
- Light Pole
- Electric Riser
- Gate Post
- Gas Riser Pipe
- Monument
- Sign
- Sanitary Sewer Manhole
- Telephone Riser
- Water Valve
- Buried Cable TV Line
- Culvert

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 Plot Scale 1:245,202 10-16-2019 11:30:08 AM by BEI
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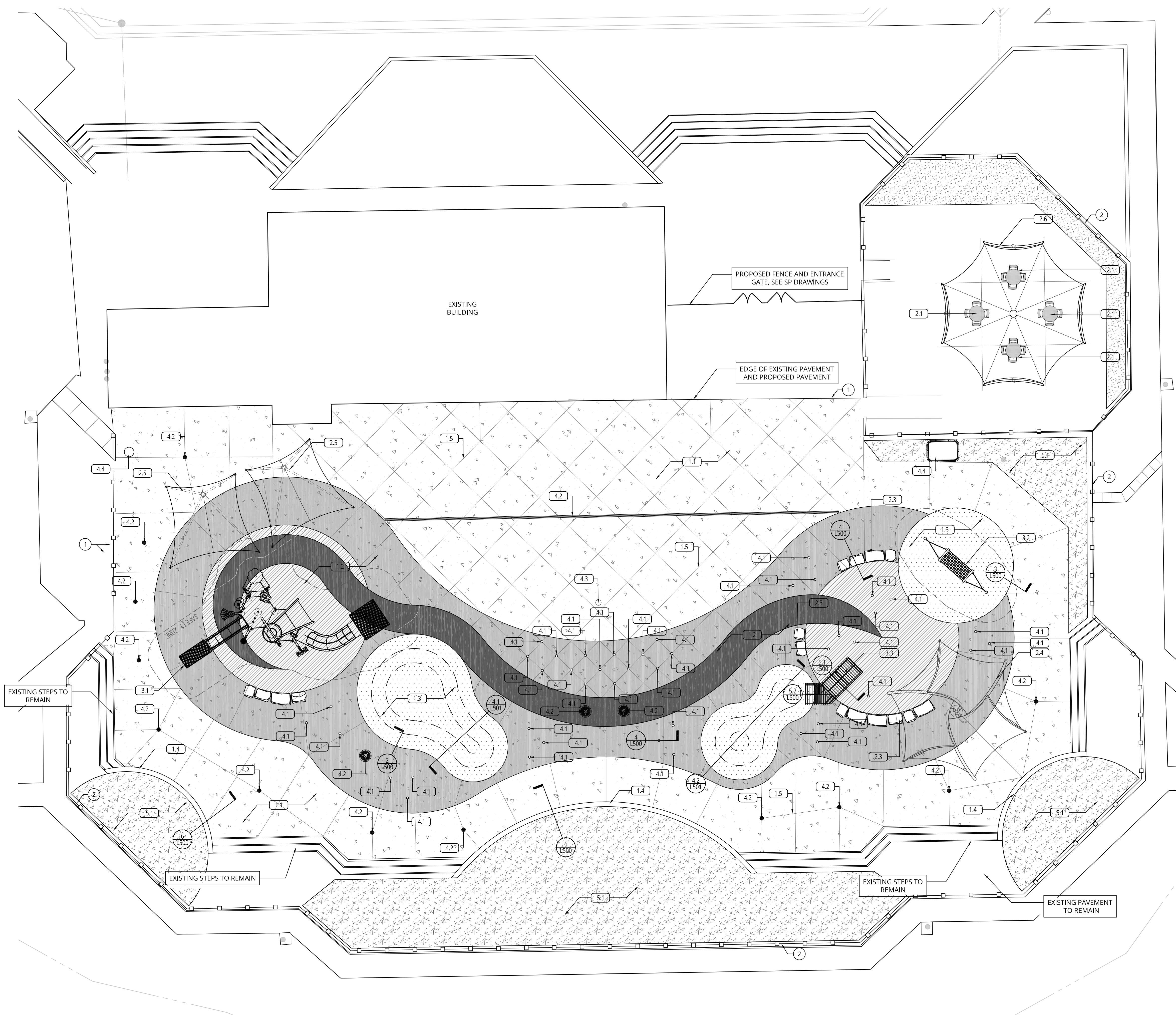
waters edge
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 ARCHITECTURAL
URBAN PRAIRIE
 COLLABORATIVE, P.C.

HOSS & BROWN
 ENGINEERS

WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK

 Name: ENGINEER
 LICENSE #####
 Date: 10-16-19 Job #: 18-512
 Drawn: Checked:
 Issue: PERMIT REVIEW
EXISTING
CONDITIONS
SV-01
 Water's Edge Aquatic Design
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GRAPHIC LEGEND:

	CITY STANDARD CONCRETE PAVEMENT
	COLORLED CONCRETE - DAVIS COLORS - PEBBLE 641
	COLORLED CONCRETE - DAVIS COLORS - WILLOW GREEN 5376
	COLORLED CONCRETE - DAVIS COLORS - EUROBLUE 418
	ARTIFICIAL TURF - GREEN
	WOOD CHIP MULCH, MEDIUM SHRED, NO COLOR

SITE MATERIALS KEYNOTES:

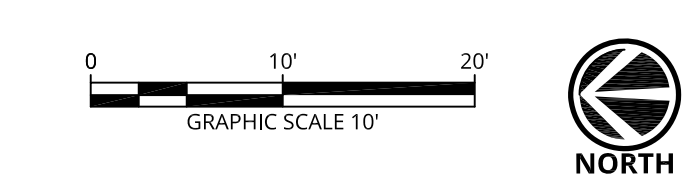
(1.0) PAVEMENTS / SURFACING / WALLS	DETAIL	SPEC
1.1 CITY STD. CONCRETE PAVEMENT	1/L500	CITY STD.
1.2 DECORATIVE PAVEMENT	2/L500	32 13 16
1.3 ARTIFICIAL TURF	3/L500	32 18 13
1.4 SEAT WALL	6/L500	32 32 23
1.5 CONCRETE JOINTING	SP DRAWINGS	CITY STD.
(2.0) SITE FURNISHINGS	DETAIL	SPEC
2.1 ROUND TABLE W/ CHAIR - BY OWNER	N.I.C.	N.I.C.
2.2 CHAISE LOUNGES - BY OWNER	N.I.C.	N.I.C.
2.3 LIMESTONE BLOCK SEATING	4/L500	N/A
2.4 TRILLIUM SHADE STRUCTURE	9/L500	N/A
2.5 VISOR SHADE STRUCTURE	8/L500	N/A
2.6 SUNDALA SHADE STRUCTURE	10/L500	N/A
(3.0) PLAY EQUIPMENT	DETAIL	SPEC
3.1 WATER PLAY STRUCTURE	SP DRAWINGS	13 14 30
3.2 ROPE HAMMOCK	7/L500	11 68 00
3.3 FISHING DOCK	5/L500	06 15 33
(4.0) AQUATIC EQUIPMENT	DETAIL	SPEC
4.1 SPRAY NOZZLE HEAD	SP DRAWINGS	13 14 20
4.2 DRAIN GRATE	SP DRAWINGS	13 11 92
4.3 ACTIVATION BOLLARD	SP DRAWINGS	13 14 20
4.4 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'



waters edge
AQUATIC DESIGN

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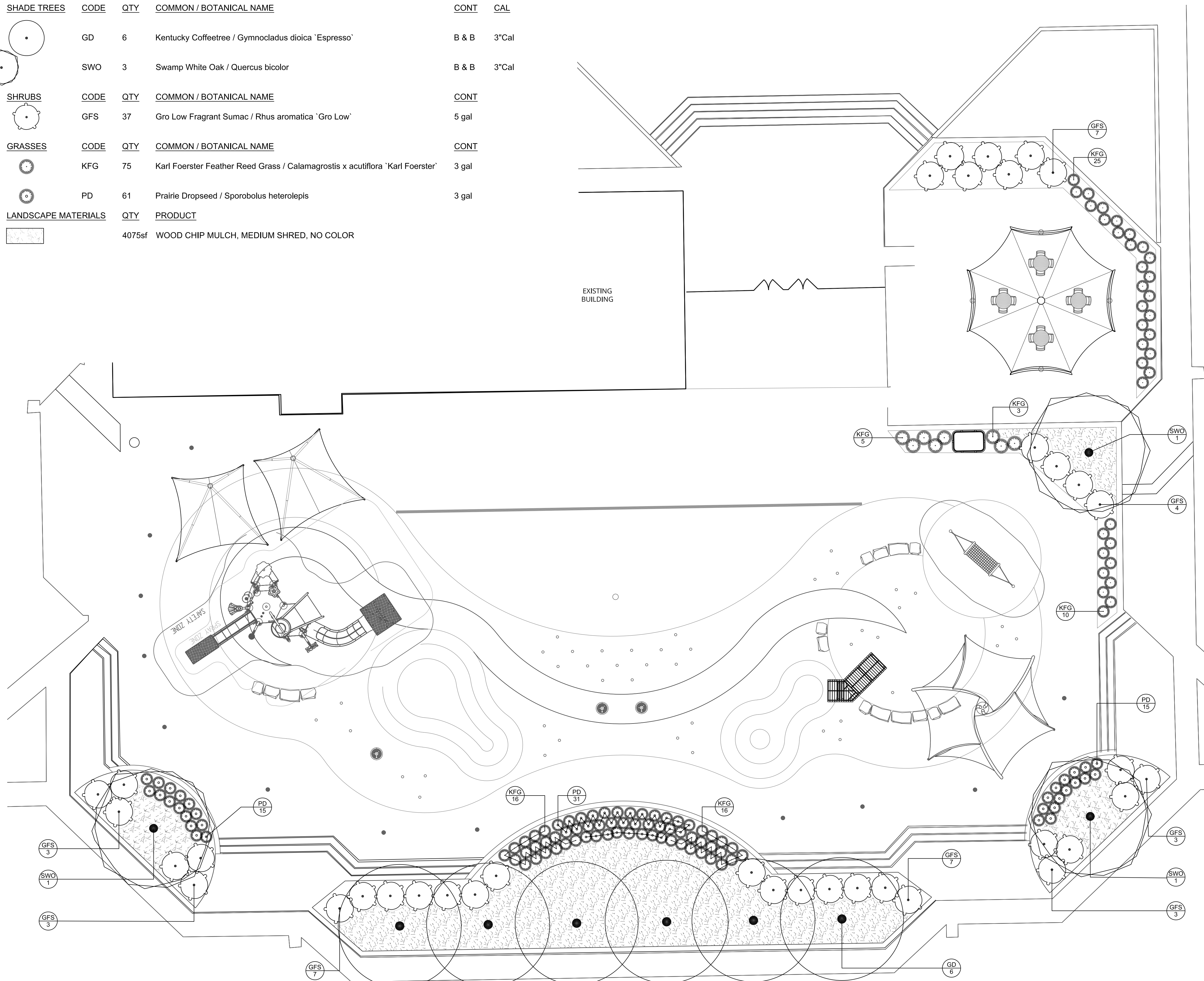
Brian Sturm—LSCP, ARCH.
LICENSE #759
Date: 02-21-20 Job #: 18-512
Drawn: Checked:
Issue: CONSTRUCTION DOCUMENTS

MATERIALS PLAN

L100
Water's Edge Aquatic Design
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PLANT SCHEDULE

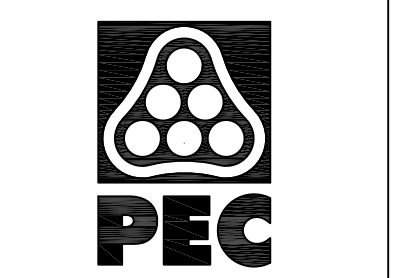
SHADE TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	CAL
	GD	6	Kentucky Coffeetree / <i>Gymnocladus dioica</i> 'Espresso'	B & B	3"Cal
	SWO	3	Swamp White Oak / <i>Quercus bicolor</i>	B & B	3"Cal
SHRUBS	CODE	QTY	COMMON / BOTANICAL NAME	CONT	
	GFS	37	Gro Low Fragrant Sumac / <i>Rhus aromatica</i> 'Gro Low'	5 gal	
GRASSES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	
	KFG	75	Karl Foerster Feather Reed Grass / <i>Calamagrostis x acutiflora</i> 'Karl Foerster'	3 gal	
	PD	61	Prairie Dropseed / <i>Sporobolus heterolepis</i>	3 gal	
LANDSCAPE MATERIALS	QTY	PRODUCT			
	4075sf	WOOD CHIP MULCH, MEDIUM SHRED, NO COLOR			



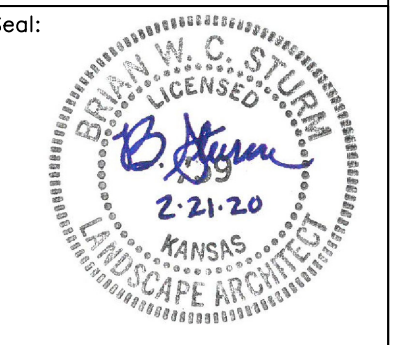
LANDSCAPE NOTES:

- 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 PANTED 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 ACCEPTED 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.

1 PLANTING PLAN
SCALE = 1" = 10'



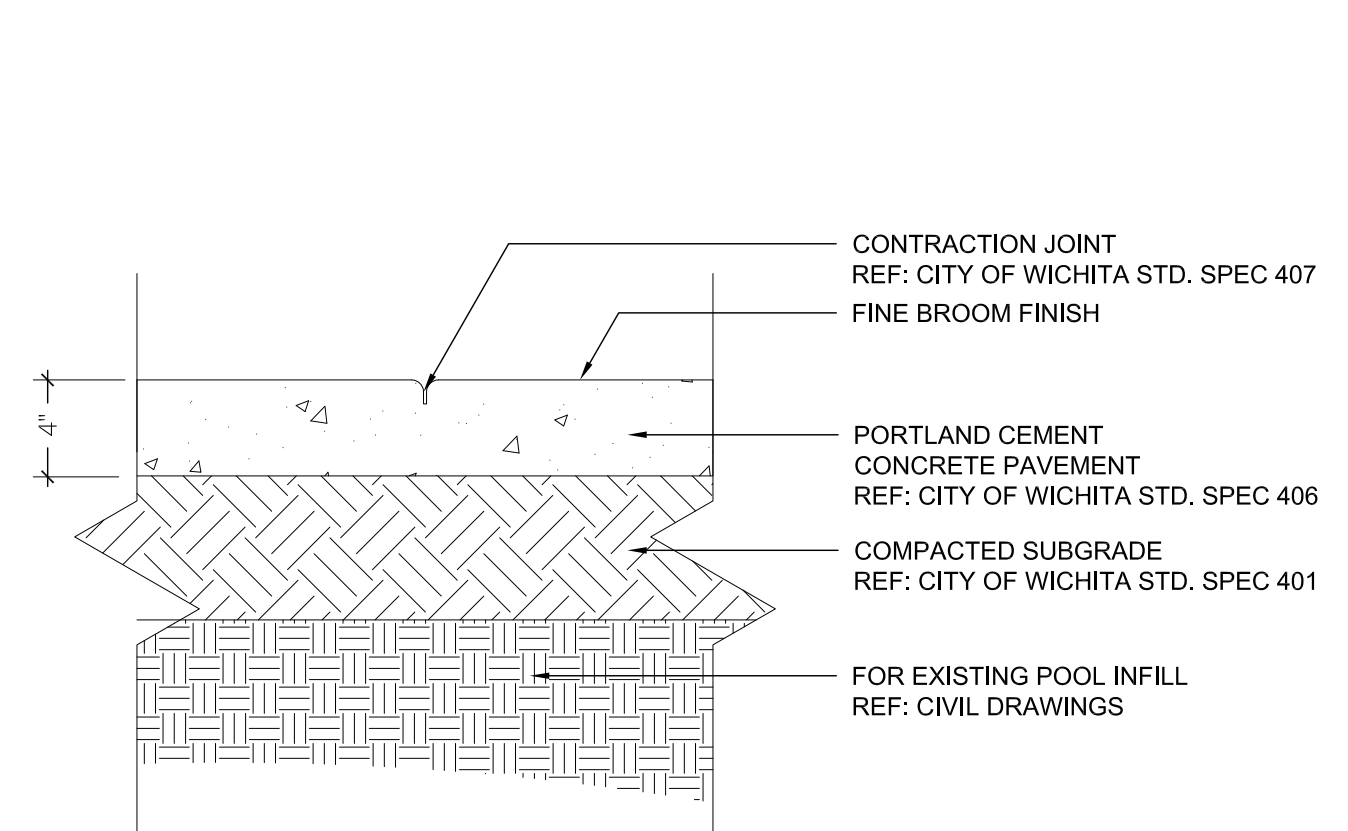
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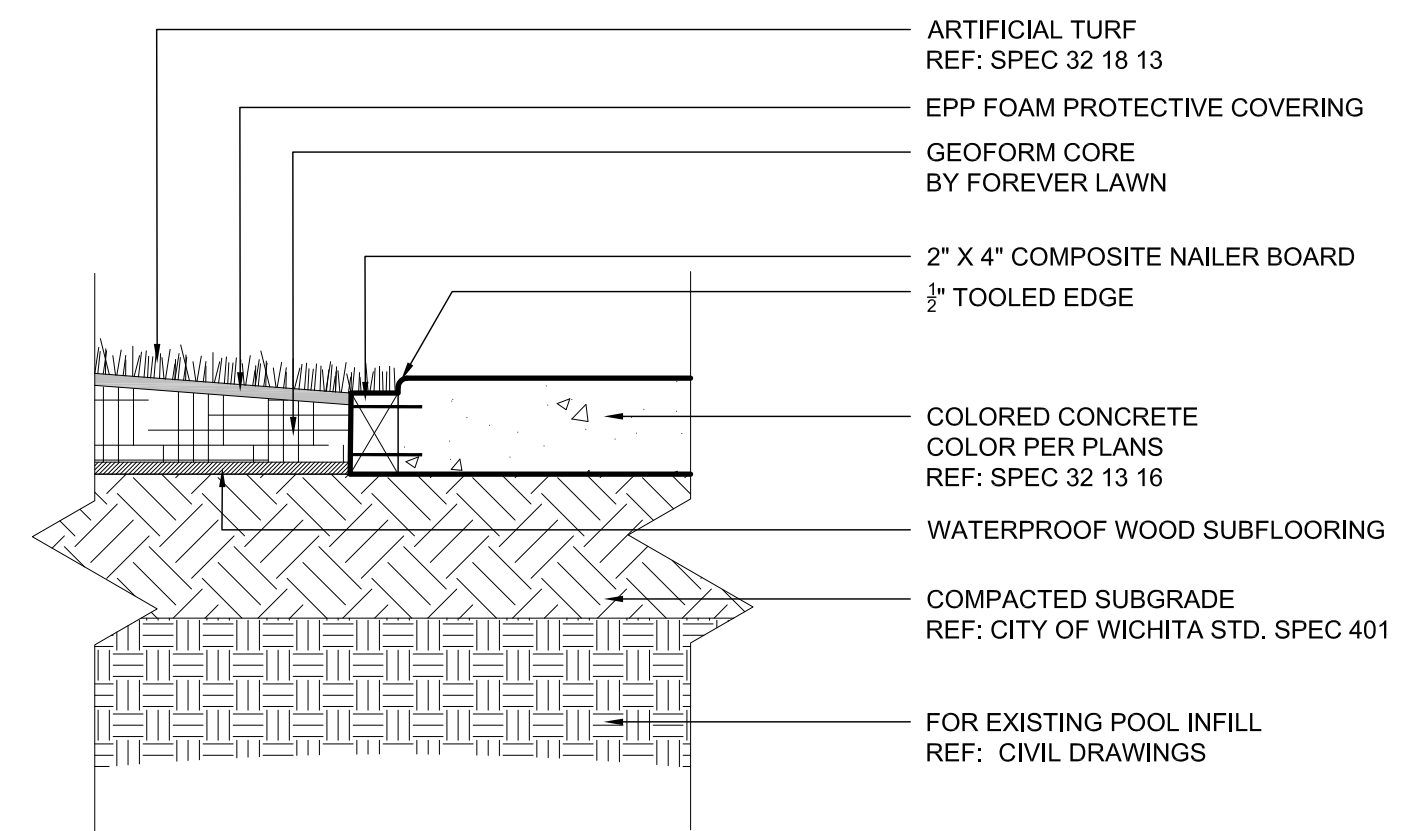
Brian Stumm - LSCP, ARCH.
LICENSE #759
Date: 02-21-20 Job #: 18-512
Drawn: Checked:

Issue: CONSTRUCTION DOCUMENTS

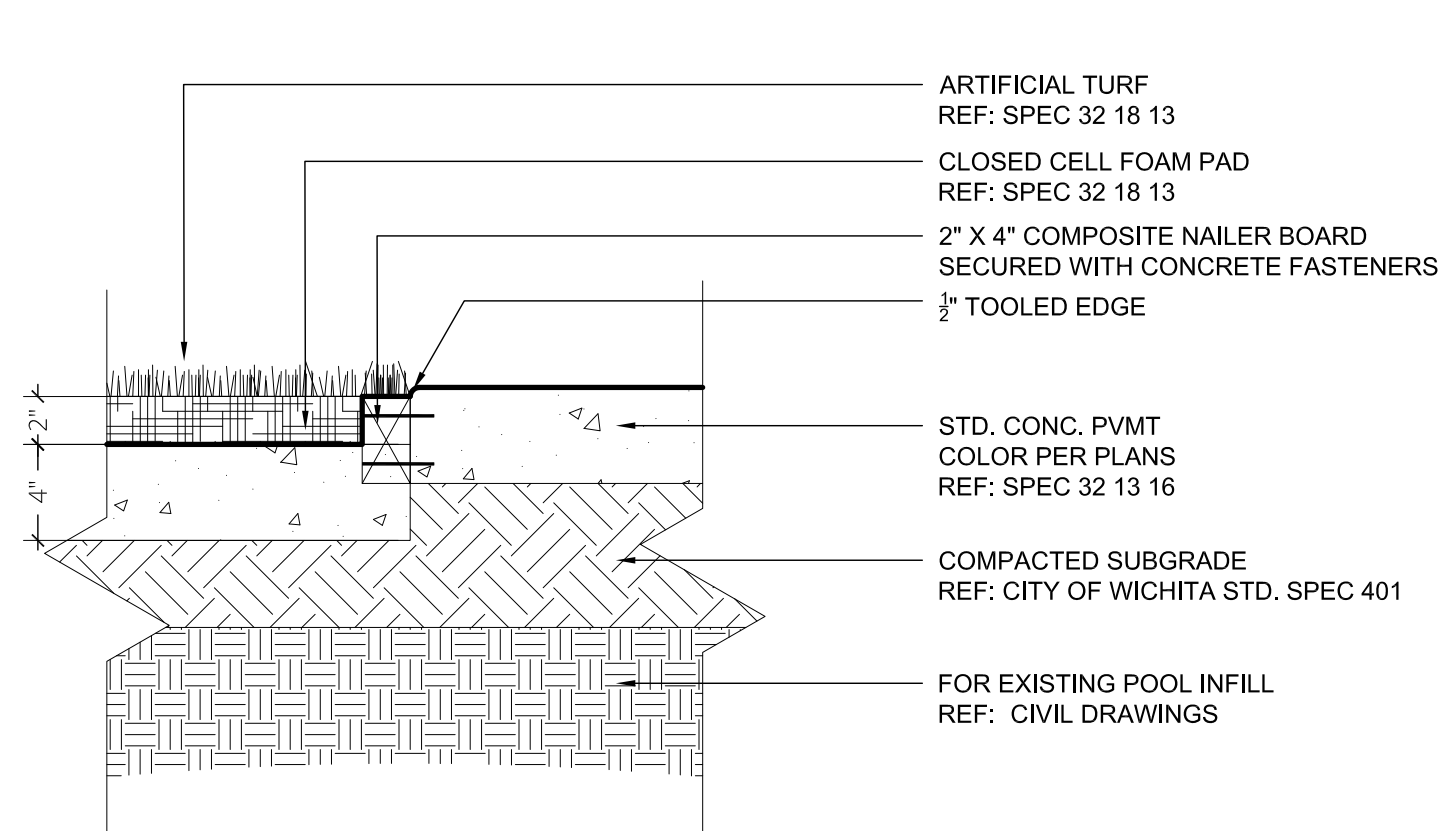
PLANTING PLAN



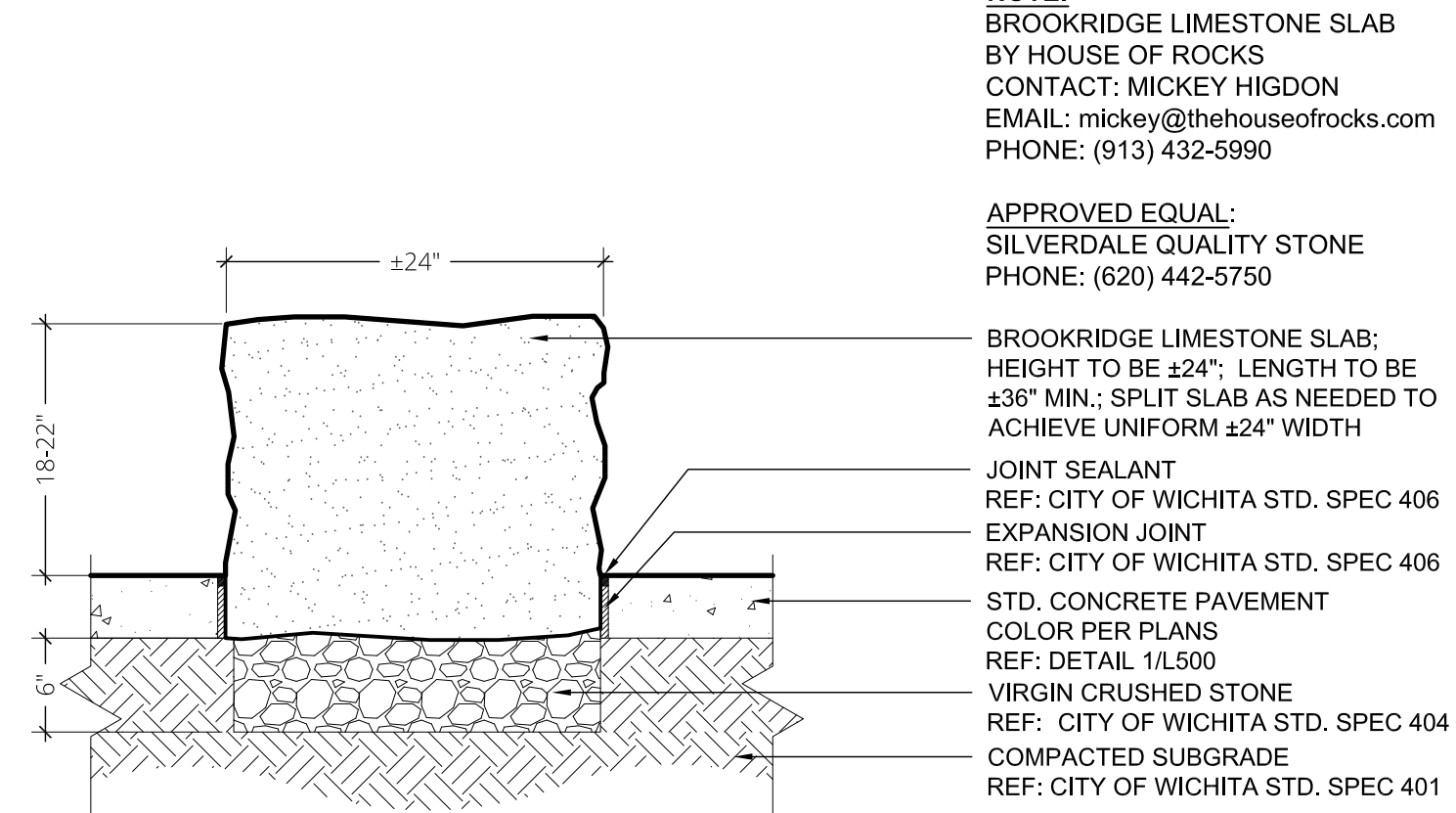
1 STANDARD CONCRETE PAVEMENT
SCALE = 1 1/2" = 1'-0"



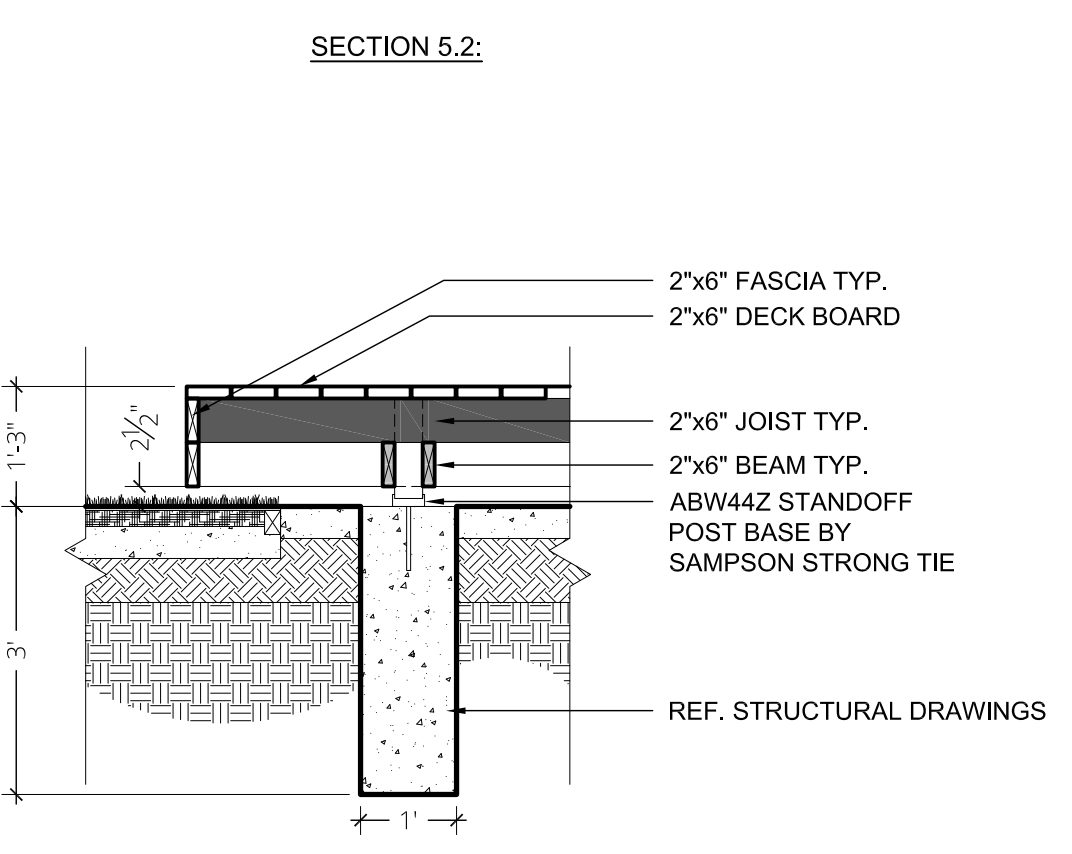
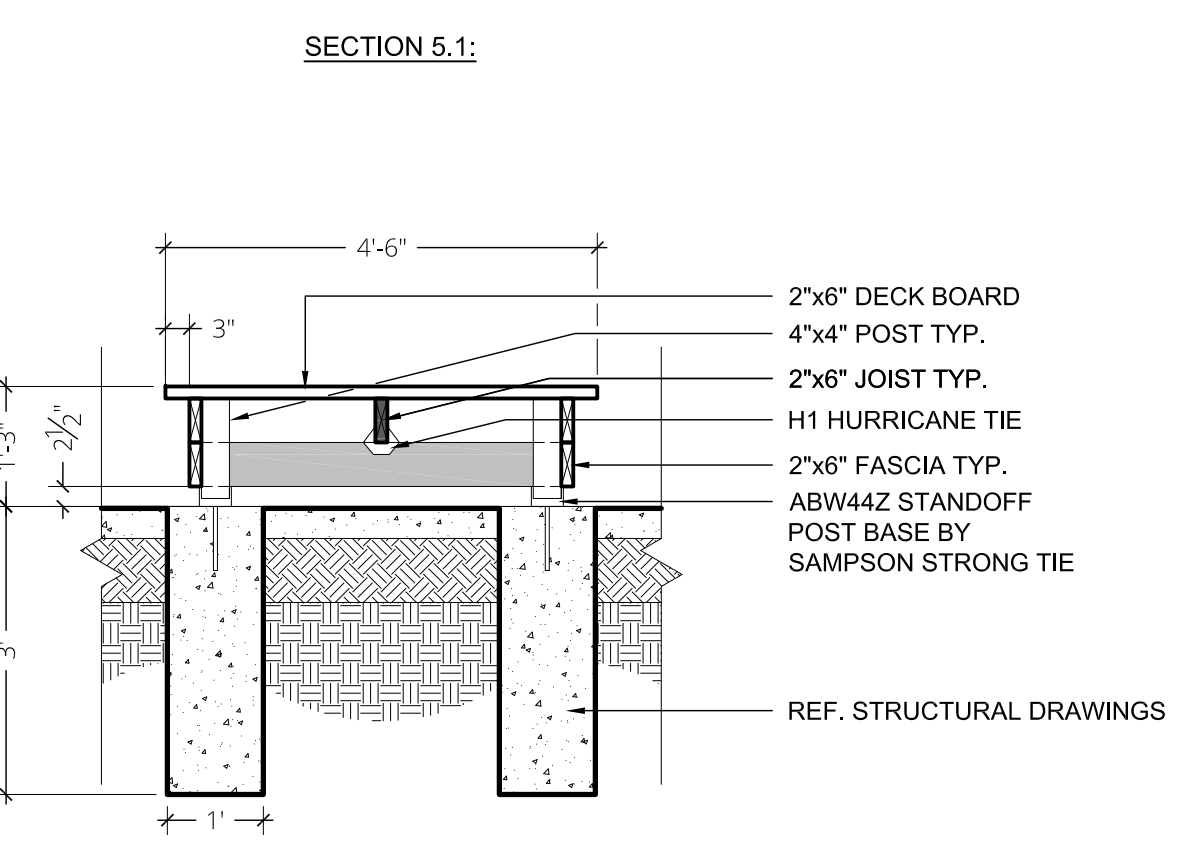
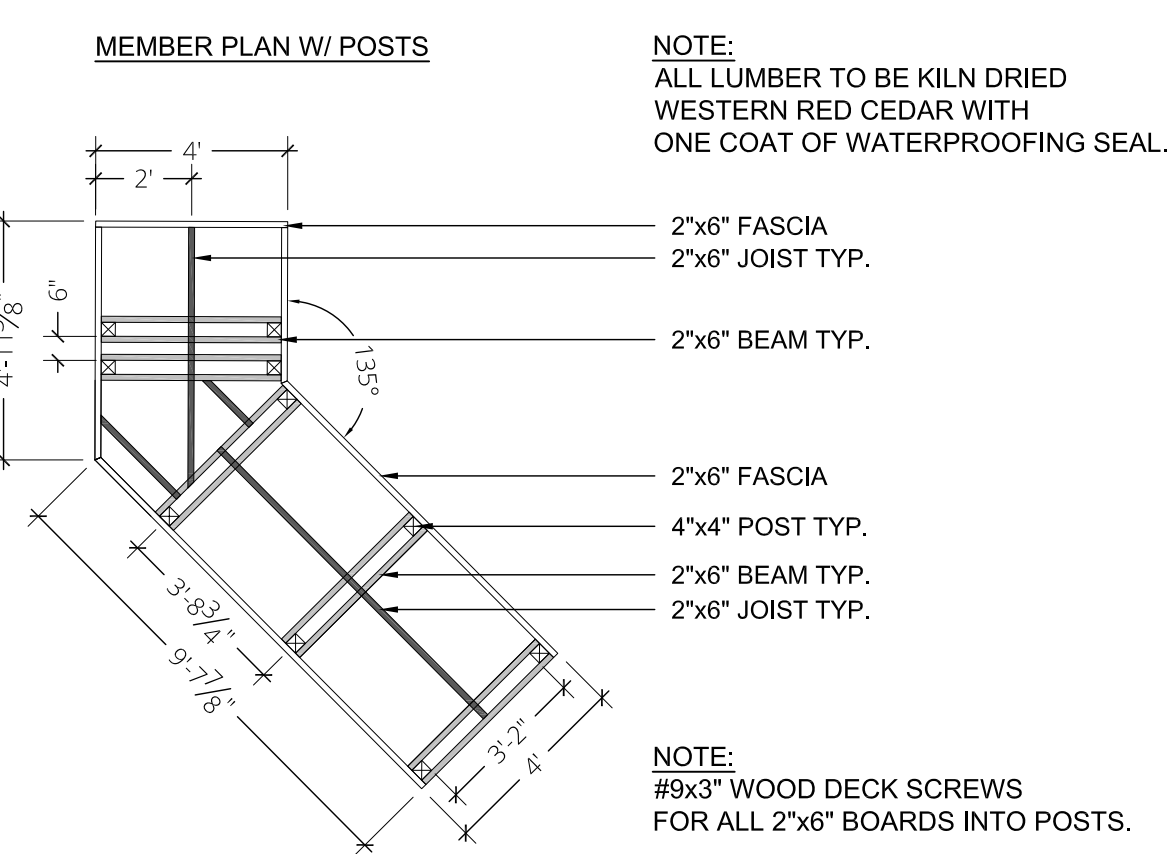
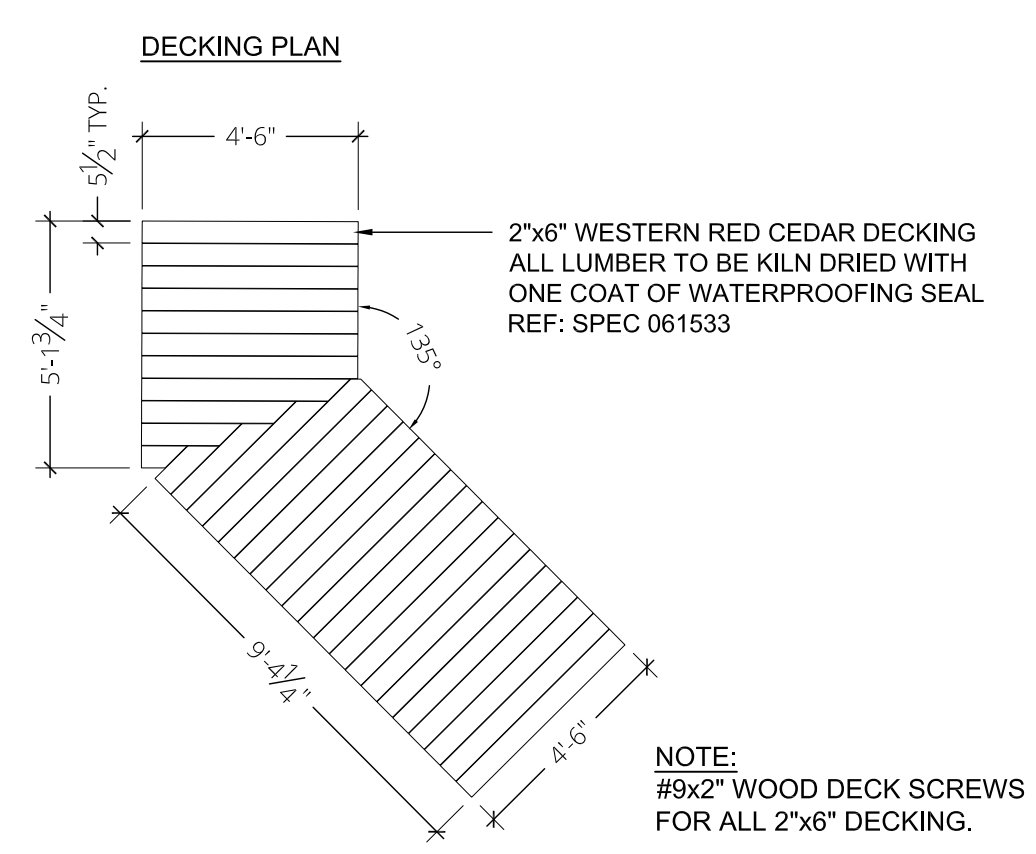
2 ARTIFICIAL TURF ADJACENT STD. CONC. PVMT
SCALE = 1 1/2" = 1'-0"



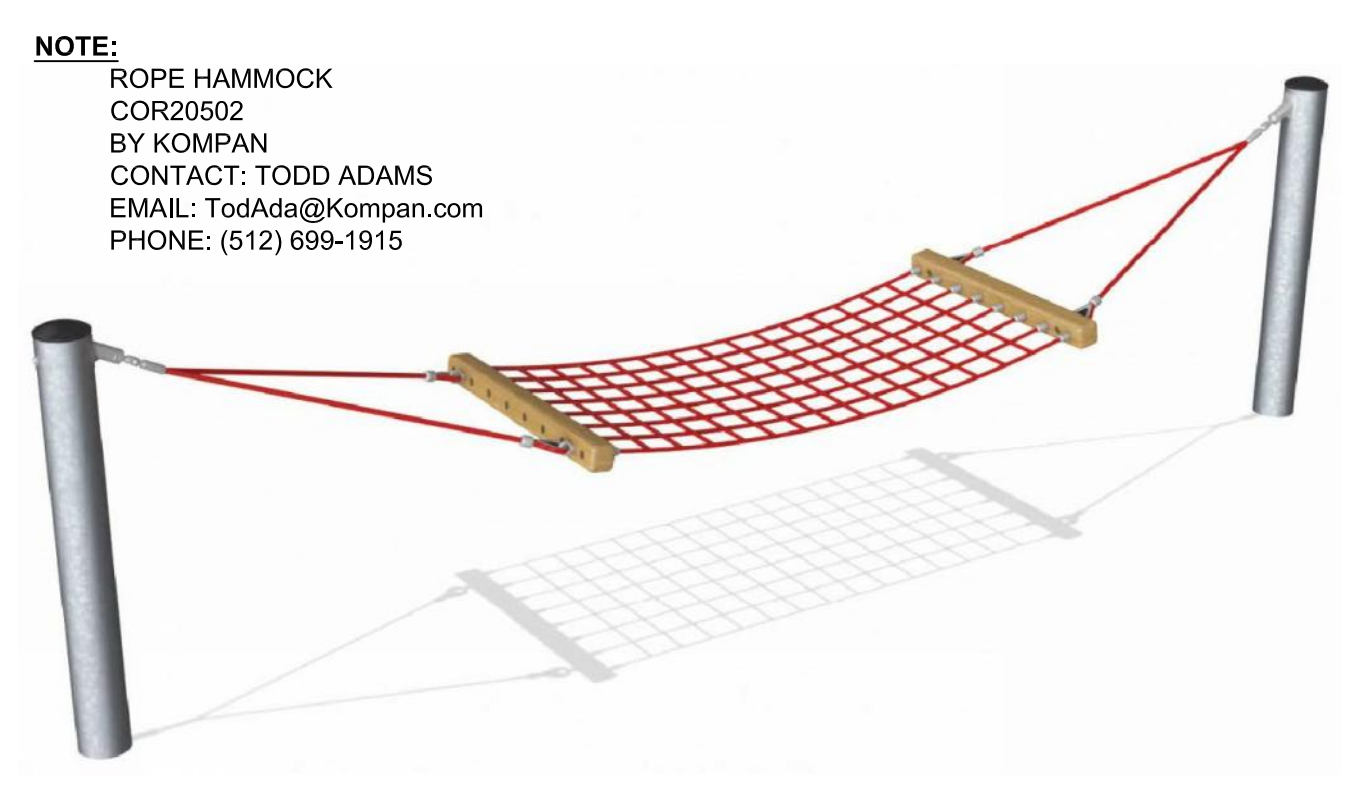
3 ARTIFICIAL TURF ADJACENT PLAY STRUCTURE
SCALE = 1 1/2" = 1'-0"



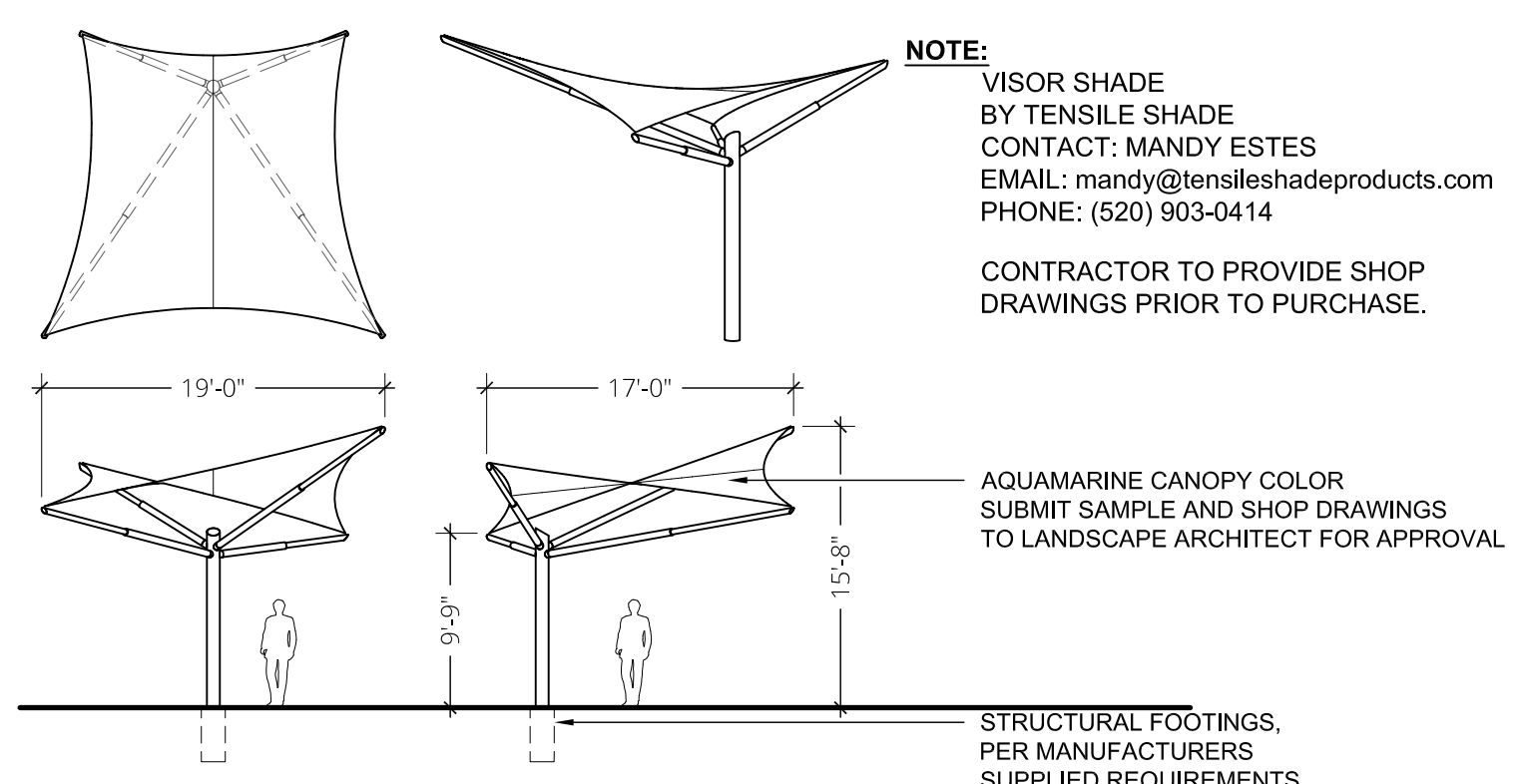
4 LIMESTONE BLOCK SEATING
SCALE = 1" = 1'-0"



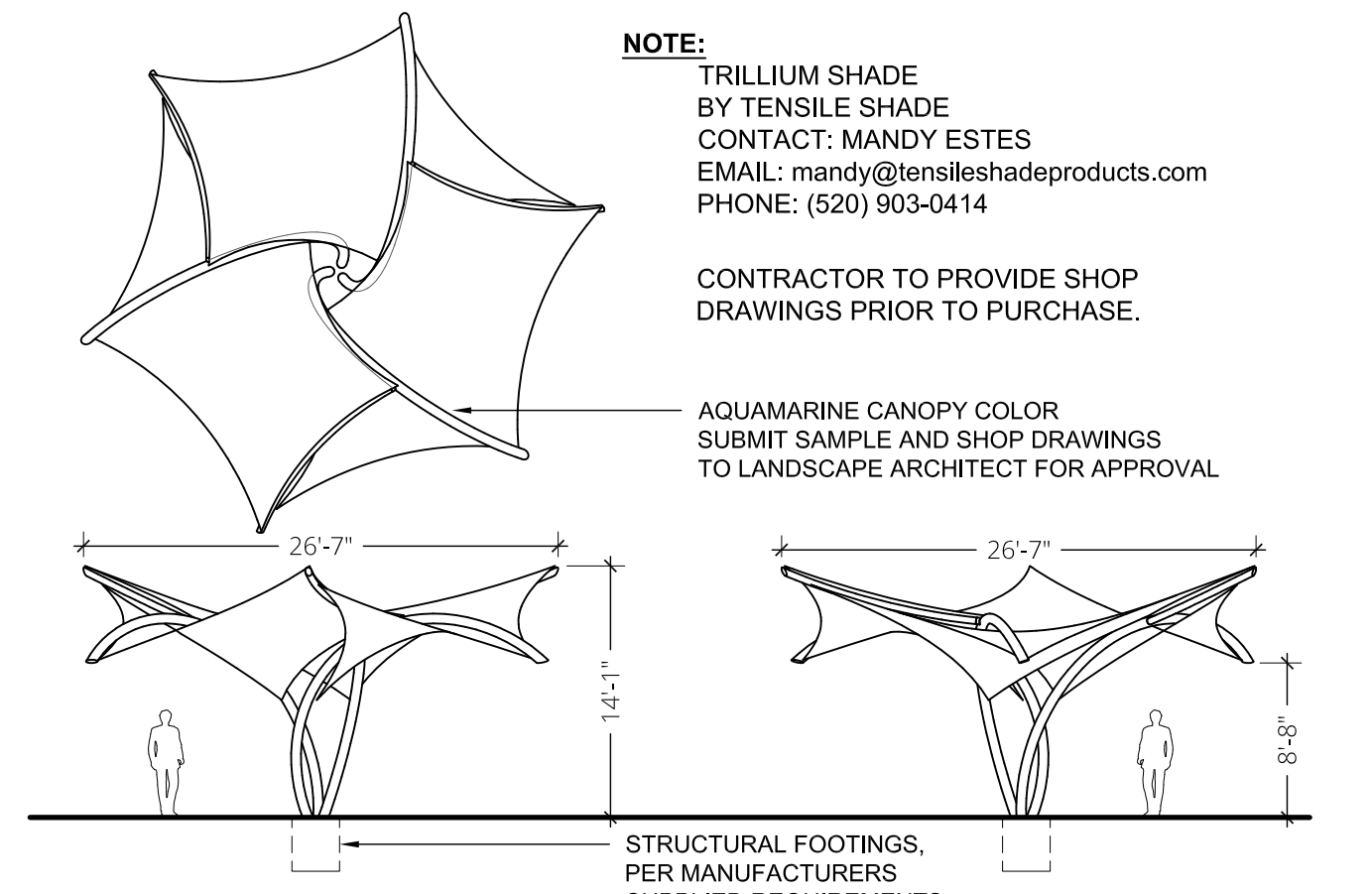
5 CUSTOM WOOD DOCK
SCALE = MULTIPLE SCALES



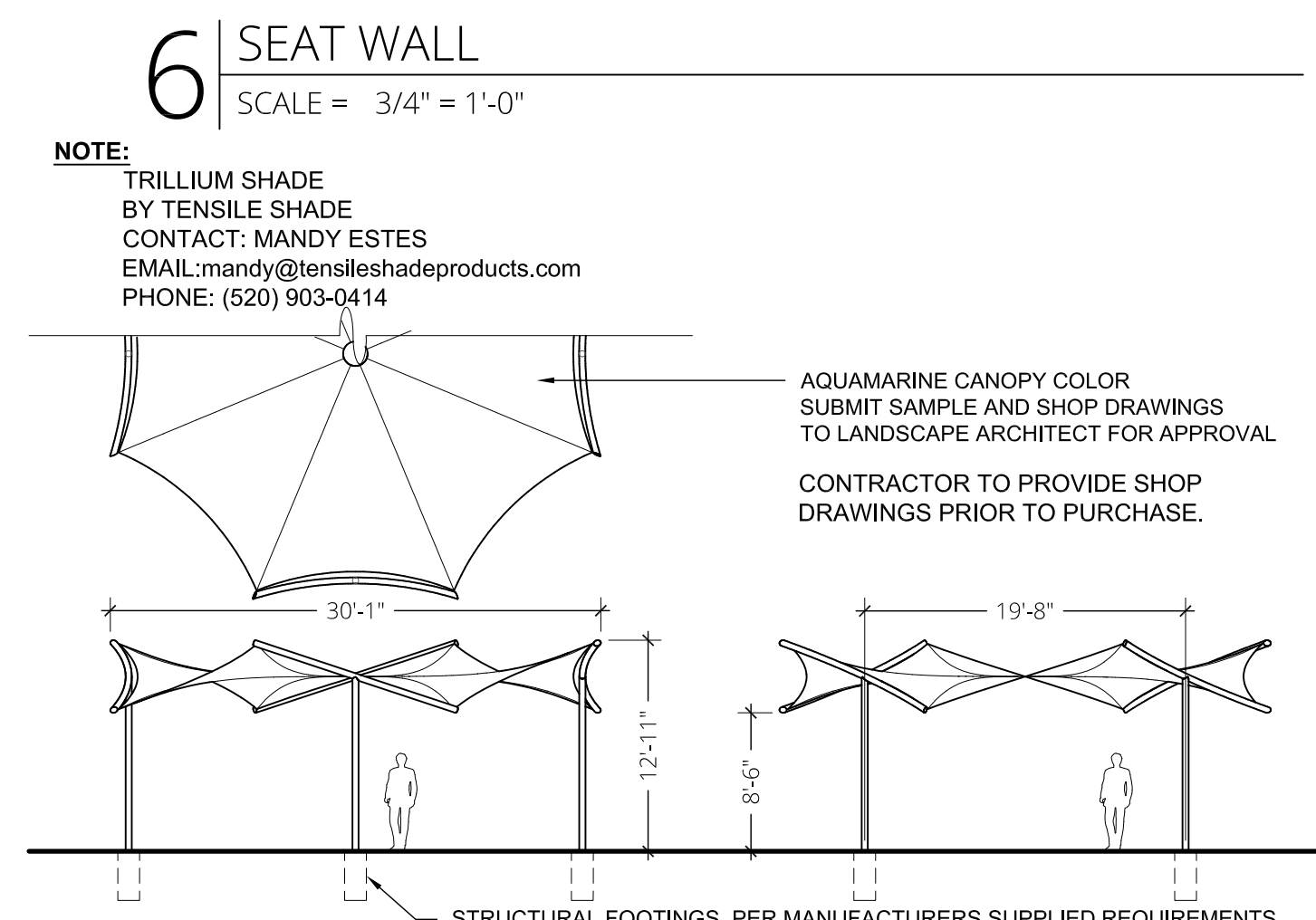
7 ROPE HAMMOCK PLAY STRUCTURE
SCALE = NO SCALE



8 VISOR SHADE STRUCTURE
SCALE = NOT TO SCALE



9 TRILLIUM SHADE STRUCTURE
SCALE = NOT TO SCALE



10 SUNDALA SHADE STRUCTURE
SCALE = NOT TO SCALE

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

STD. CONCRETE PAVEMENT
COLOR PER PLANS
REF: DETAIL 1L500

VIRGIN CRUSHED STONE
REF: CITY OF WICHITA STD. SPEC 404

COMPACTED SUBGRADE
REF: CITY OF WICHITA STD. SPEC 401

waters edge
AQUATIC DESIGN

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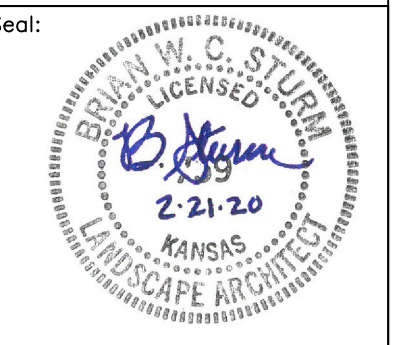
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URBAN PRAIRIE
COLLABORATIVE, P.C.

H&B
HOSS & BROWN ENGINEERS



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Brian Sturm—LSCP, ARCH.
LICENSE #759

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

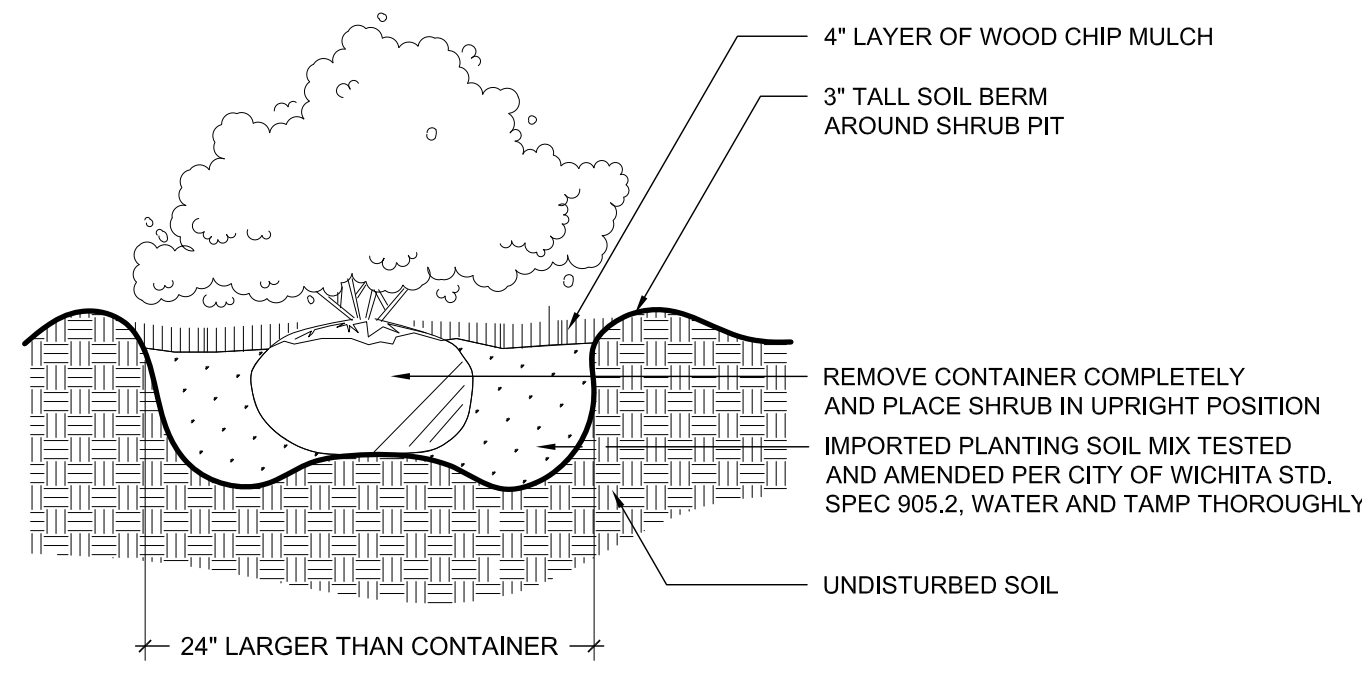
Drawn: Checked:

Issue: CONSTRUCTION DOCUMENTS

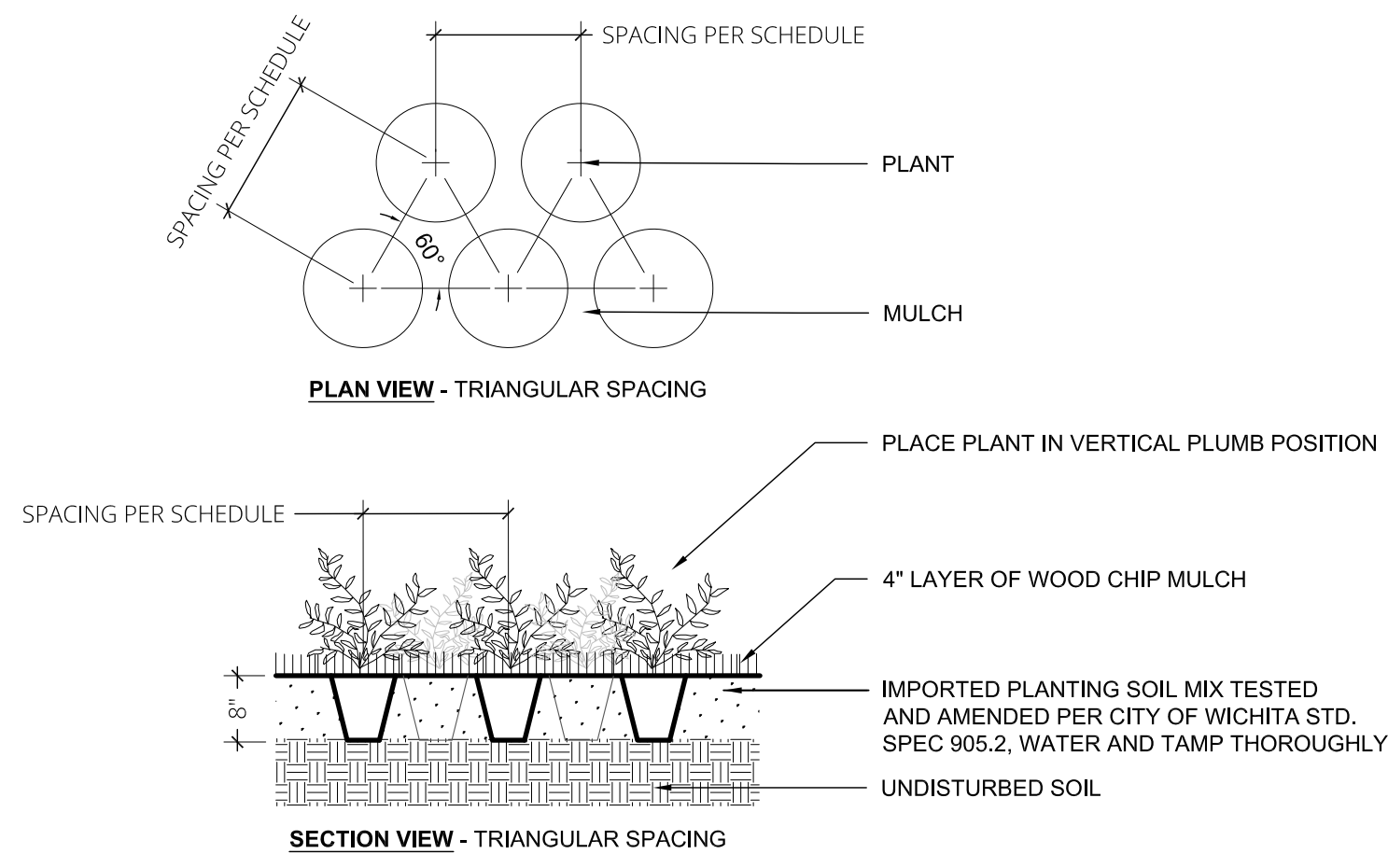
SITE
DETAILS

L500

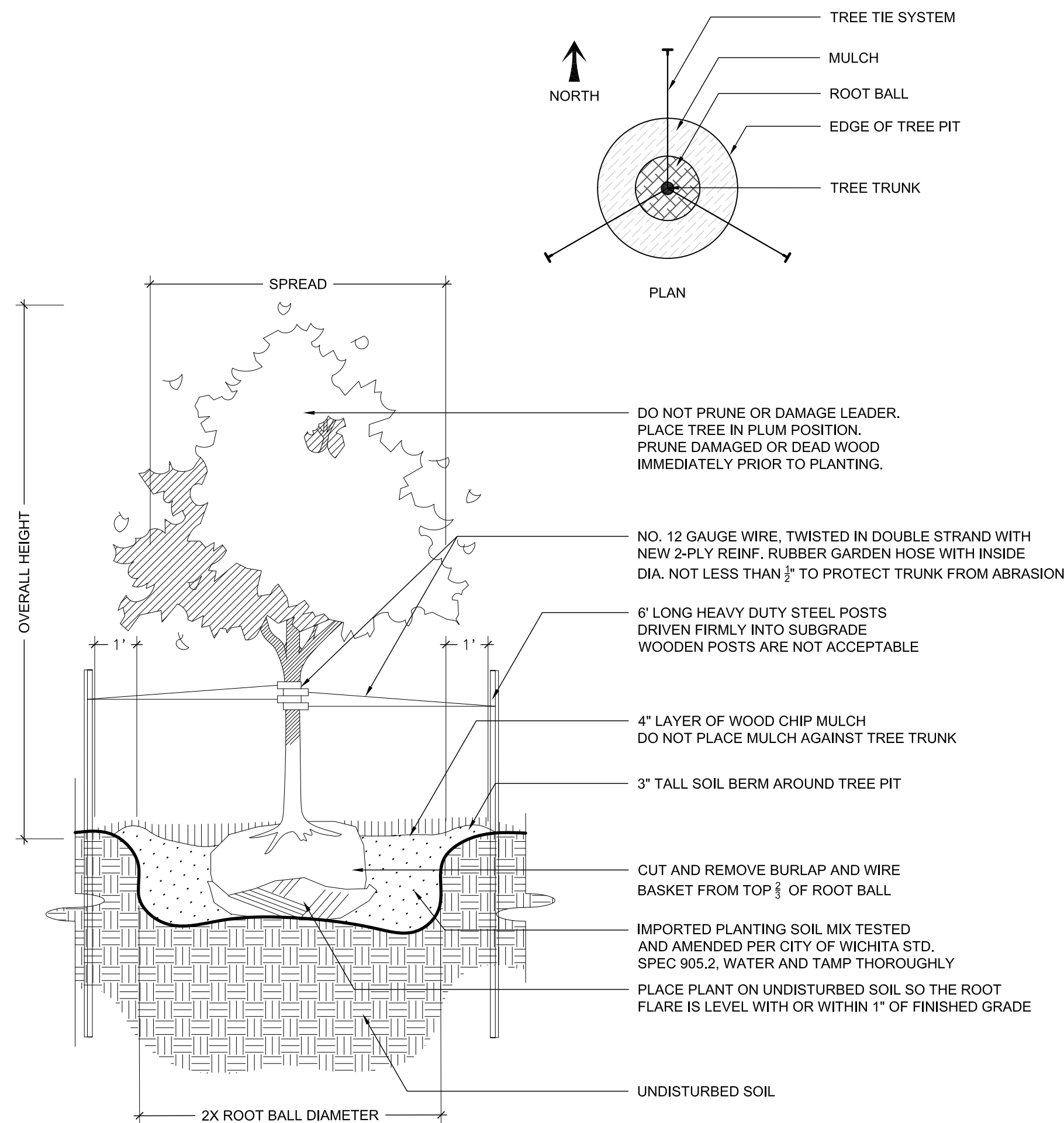
Water's Edge Aquatic Design
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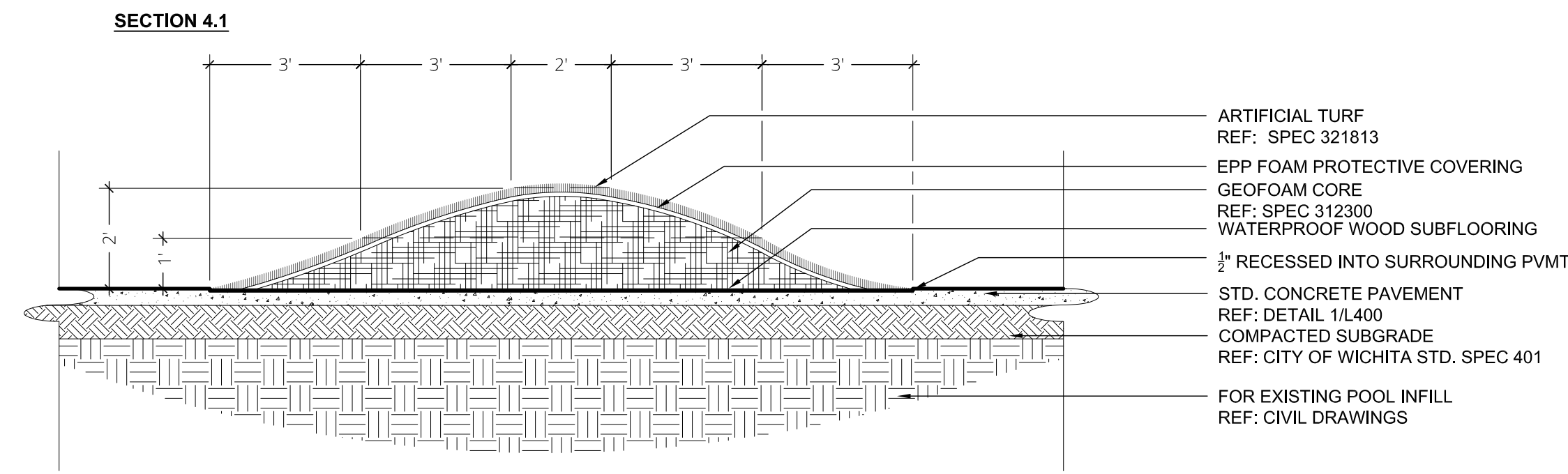
1 SHRUB PLANTING
SCALE = 1/2" = 1'-0"



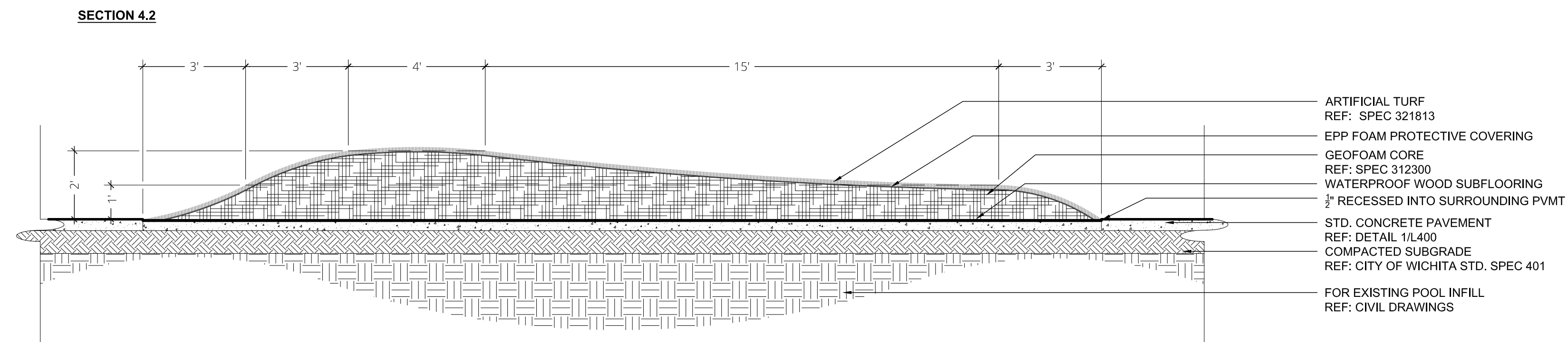
2 PERENNIAL PLANTING
SCALE = 1/2" = 1'-0"



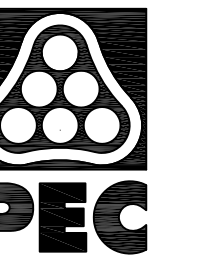
3 DECIDUOUS TREE PLANTING
SCALE = 3/8" = 1'-0"



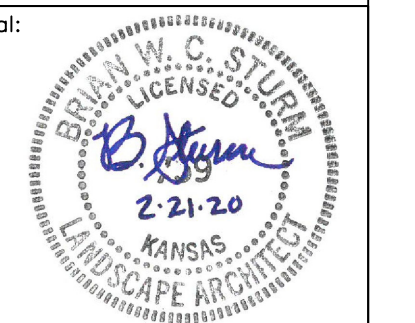
NOTE:
TURF MOGULS
VARIOUS SIZES
BY FOREVER LAWN
CONTACT: DEREK MARTIN
EMAIL: derek@foreverlawnct.com
PHONE: (316) 308-7588



4 MOGUL TURF BERMS
SCALE = 3/8" = 1'-0"



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Brian Stumm—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

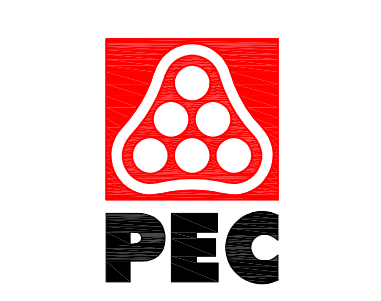
1 Existing parking	29 Saw cut and replace existing sidewalk and curb to allow drain piping to drain to daylight
2 Existing sidewalk	30 Off-season drain valve and valve box with lid ~ Provide valve operator T-handle
3 Existing fence with existing concrete strip at portions	31 Deck drain - trench ~ See Detail G-SP-PM2
4 Existing pool deck	32 Deck area drain with 5" diameter strainer
5 Existing pool deck step seating	33 Concrete deck ~ See Detail H-SP-PM2 ~ Deck and drain elevations ~ Deck slopes shall be 1% min. / 2% max. ~ Water shall not be allowed to pond in any location
6 Existing light pole	34 Concrete deck at existing wading pool
7 Existing electric utility	35 Construction joint ~ See Detail H-SP-PM2
8 Existing gas utility	36 Expansion joint ~ See Detail H-SP-PM2
9 Existing sanitary sewer utility	37 Isolation joint ~ See Detail H-SP-PM2
10 Existing storm sewer utility	38 Saw cut ~ See Detail H-SP-PM2
11 Existing telephone utility	39 Valley line ~ No joint
12 Existing/renovated bathhouse	40 Concrete deck at existing concrete deck ~ See Detail I-SP-PM2
13 Existing/renovated filter area	41 Underdrain ~ See Detail J-SP-PM2
14 Existing pool outline	42 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
15 Existing pool demo and backfill ~ See Detail A-SP-PM2	43 Sunshade with footing ~ See Landscape Architect Sheets
16 "Vortex Drain" ~ See Detail B-SP-PM2	44 Deck equipment ~ See Landscape Architect Sheets
17 Water feature valve pit ~ See Detail C-SP-PM2	45 Deck finish ~ See Landscape Architect Sheets
18 "Vortex Elevations" water play structure with dumping bucket and safety pads ~ See Detail D-SP-PM2	46 Deck finish ~ See Landscape Architect Sheets
19 "Vortex Directional Jet No. 1" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	47 Artificial turf ~ See Landscape Architect Sheets
20 "Vortex Fountain Spray No. 1" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	48 Landscape area ~ See Landscape Architect Sheets
21 "Vortex Gusher" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	49 Wall seat ~ See Landscape Architect Sheets
22 "Vortex Magic Mist No. 2" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	50 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
23 "Vortex Side Winder" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	51 Existing 8'-0" wide double gate ~ Gate shall remain in fixed open position when facility is open to the public ~ Provide EXIT sign on stationary post
24 "Vortex Sparkle No. 1" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	
25 "Vortex Split Stream" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	
26 "Vortex Water Bloom No. 1" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	
27 "Vortex Water Bloom No. 2" ~ See Detail E-SP-PM2, and Sheet SP-PM1 data for quantity	
28a "Vortex Ballard Activator" ~ See Detail F-SP-PM2	
28b Rain and wind sensors connected to Vortex controller	

ABBREVIATIONS

&	And
@	At
.	Degree
ø	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
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
EDGEMOOR PARK



Jeff Bartley - ENGINEER
LICENSE #15116

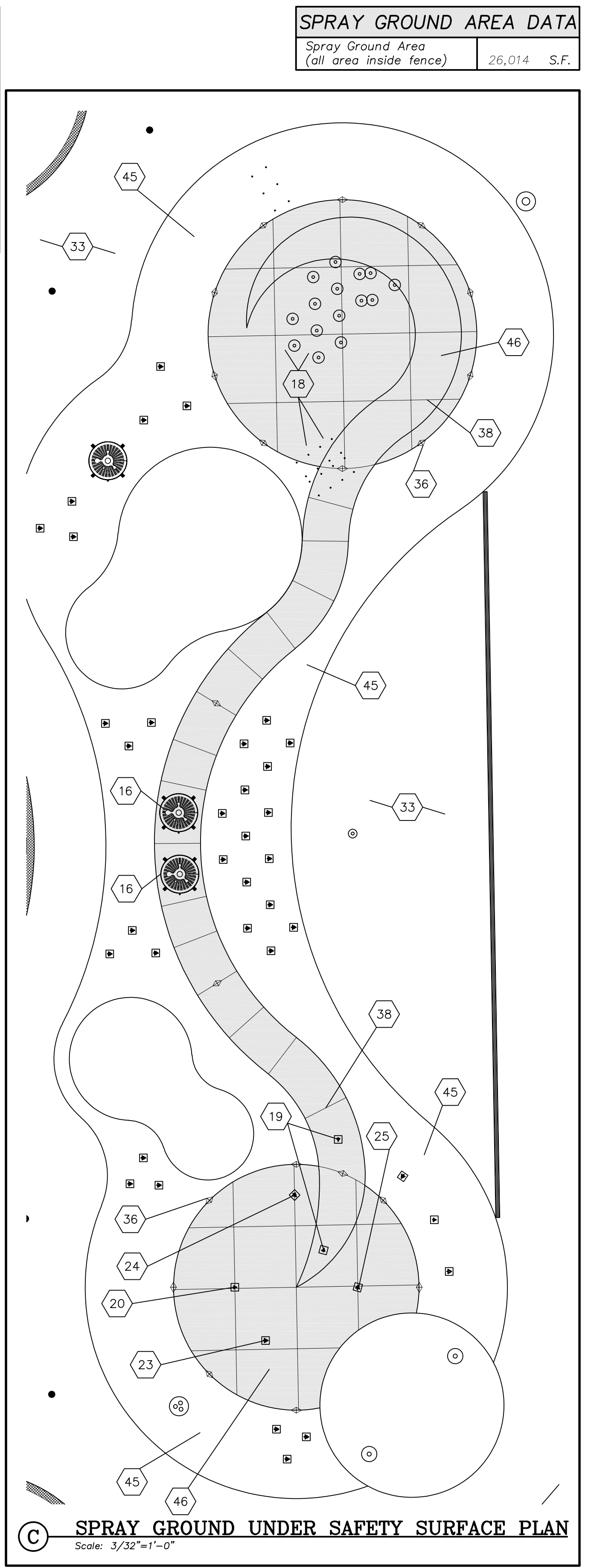
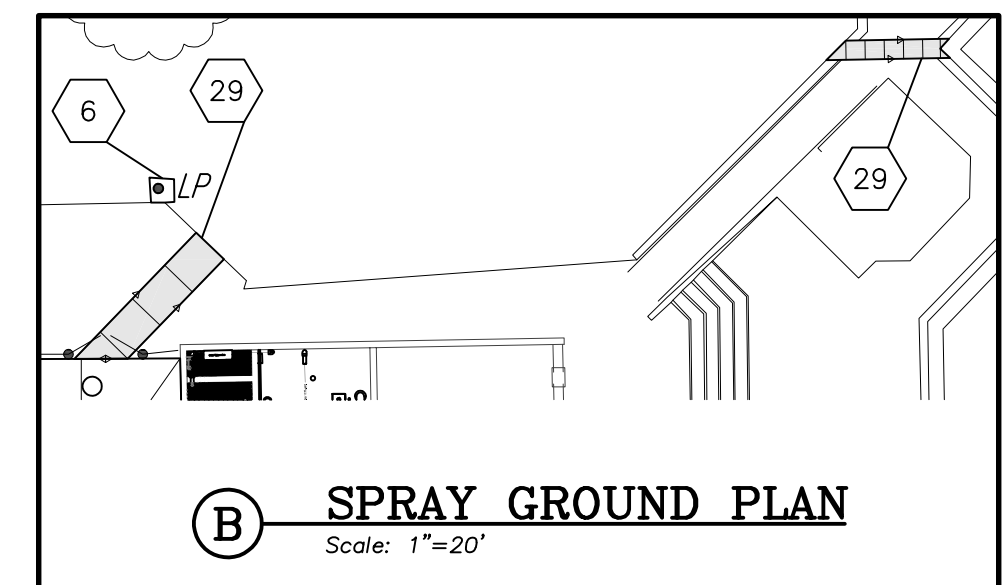
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Drawn: SRS Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

SPRAY GROUND
KEY NOTES
AND
DATA

SP-P0



SPRAY GROUND AREA DATA

Spray Ground Area (all area inside fence)	26,014 S.F.
---	-------------

EGRESS CAPACITY CALCULATION - EDGEMOOR

Applicable Code:	2012 IBC	Max Capacity based upon # exits		
# of Exit Discharges:	2	Exits	Max. Occupants	
Total Egress Capacity:	2,160 occupants	1	49	
Note: Capacity is limited by number of exit discharges				
Egress Capacity Factor	0.2 in./occupant	2	500	
Limit based upon # of exits	N/A occupants	3	1,000	
Max. travel distance	250 ft.			

EGRESS LOCATIONS	Width, in.	No.	Total Width, in.	Egress Factor (in./occ.)	Egress Capacity
Bathroom Entry/Exit	36	2	72	0.2	360
New Main Entry Gates	84	2	168	0.2	840
Existing North Gate	96	1	96	0.2	480
West Gates	48	2	96	0.2	480

waters edge AQUATIC DESIGN
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L 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

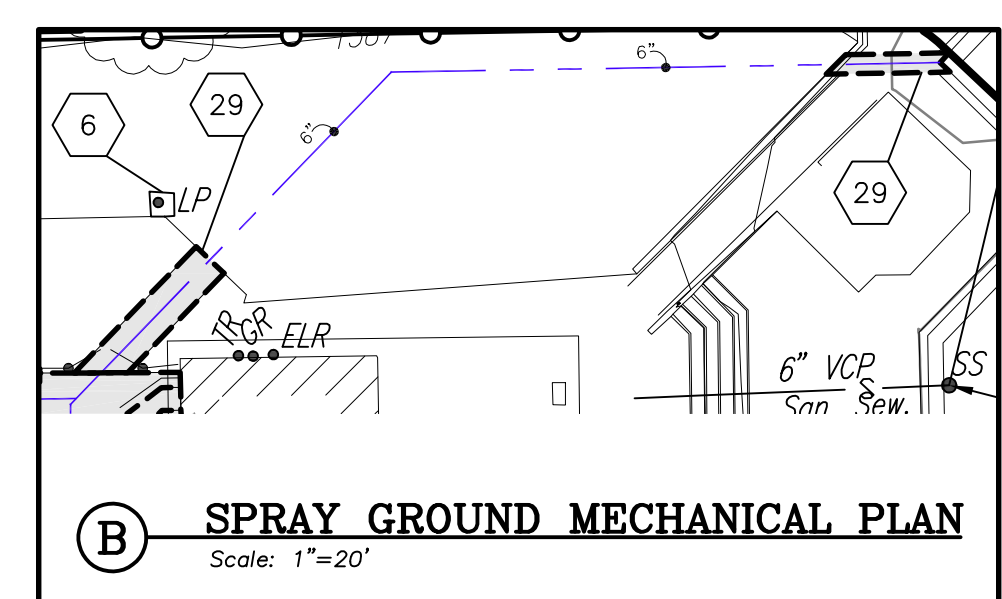
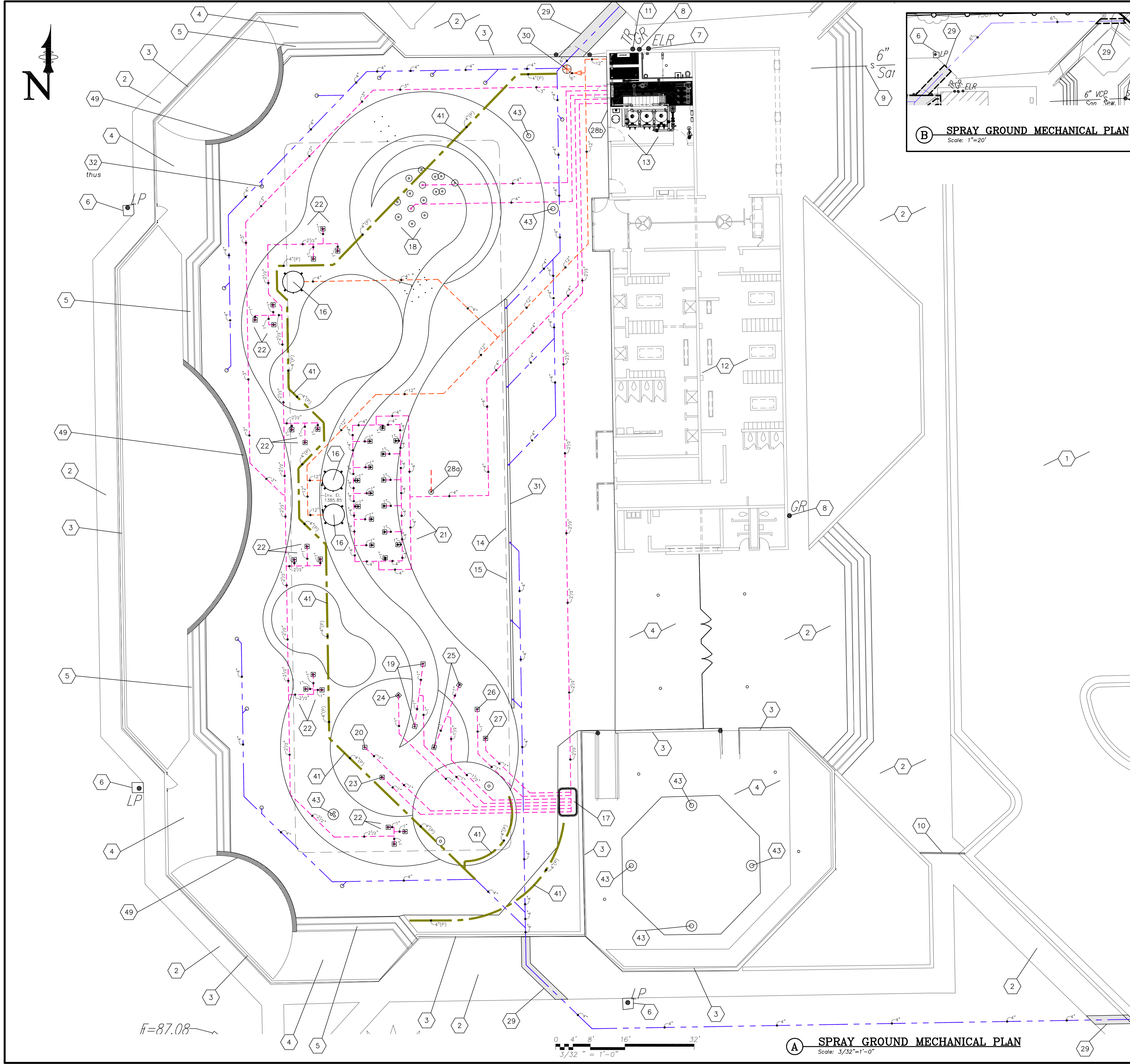
WICHITA

WICHITA, KANSAS Spray Ground EDGEMOOR PARK

JEFF A. BARTLEY LICENSED PROFESSIONAL ENGINEER
15116
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



WATER FEATURE FLOW DATA					
Description	Flow	Quantity	Total Flow	Pressure	Spray Height
SPRAY GROUND					
Directional Jet No. 1	4 GPM	2	8 GPM	5 PSI	-- Ft.
Fountain Spray No. 1	6 GPM	1	6 GPM	10 PSI	-- Ft.
Gusher	17 GPM	15	255 GPM	6 PSI	-- Ft.
Magic Mist No. 2	6 GPM	18	108 GPM	25 PSI	-- Ft.
Side Winder	8 GPM	1	8 GPM	5 PSI	-- Ft.
Sparkle No. 1	6 GPM	1	6 GPM	5 PSI	-- Ft.
Split Stream	10 GPM	2	20 GPM	10 PSI	-- Ft.
Water Bloom No. 1	11 GPM	1	11 GPM	8 PSI	-- Ft.
Water Bloom No. 2	11 GPM	1	11 GPM	8 PSI	-- Ft.
Water play structure	390 GPM	1	390 GPM	PSI	-- Ft.
TOTAL		43	823 GPM		

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

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 | |
|---------------------|---|
| 1. | All pipes shall slope to drain
~ Slope shall be uniform between Inv. El.'s shown, unless otherwise required to prevent piping conflicts |
| 2. | Inv. El.'s at structures, adjacent to equipment (basket strainers, pumps, etc.), are approximate and may vary per mfr.
~ Contractor shall verify |
| 3. | All piping through concrete structures shall be cast-in-place
~ No pipe sleeves or coring allowed |
| 4. | Coordinate all items with piping
~ Example...fence post footings, shade column footings, etc. |
| 5. | Tee fitting sizes shall match that of the largest connecting pipe size |

waters edge
AQUATIC DESIGN

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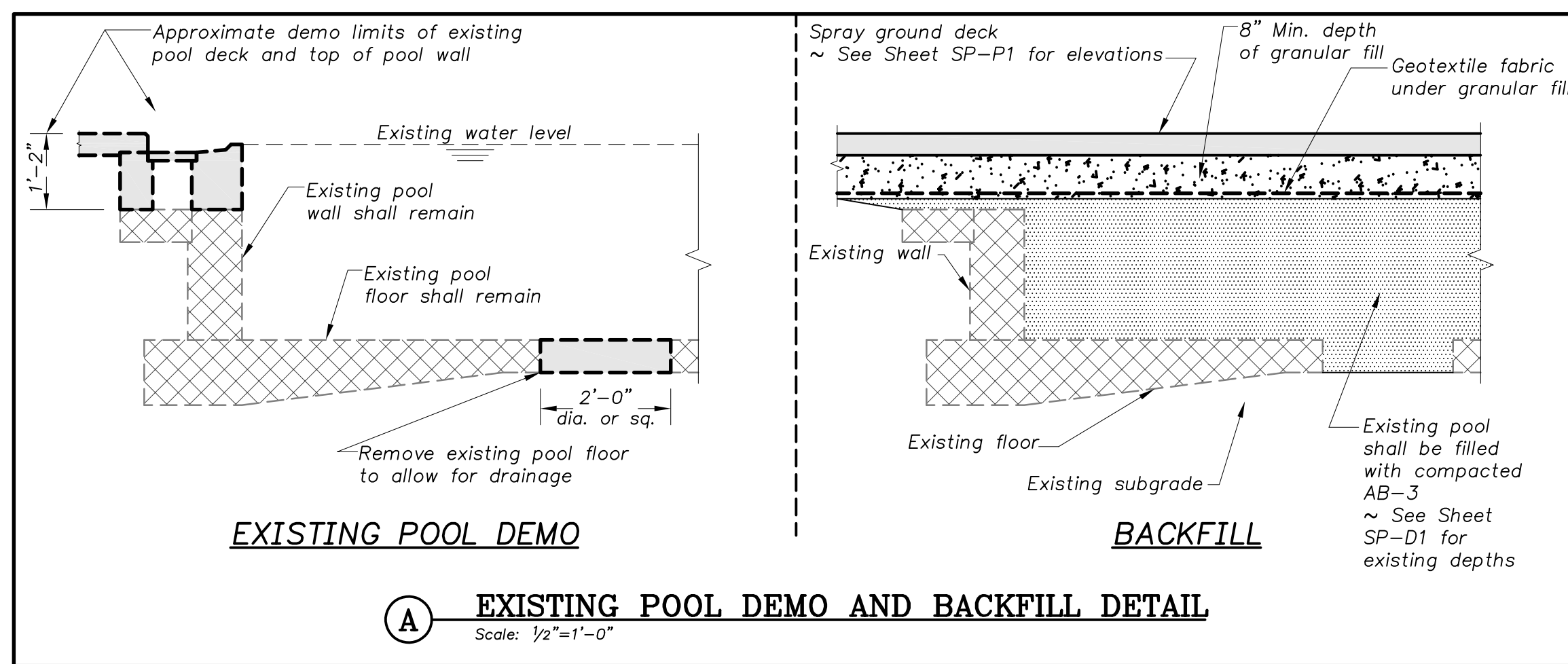
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ENGINEERS

WICHITA

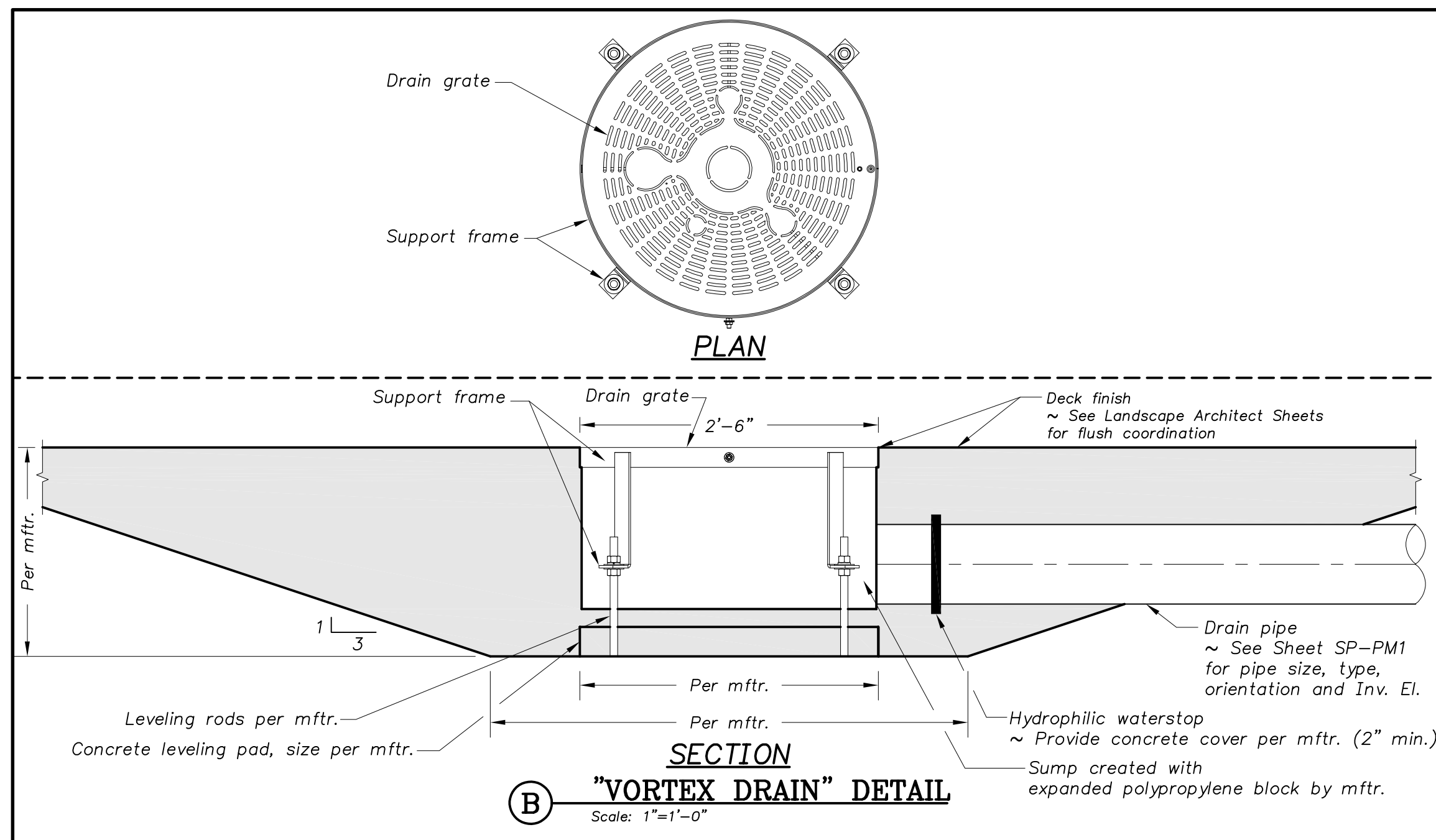
WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK

SP-PM1

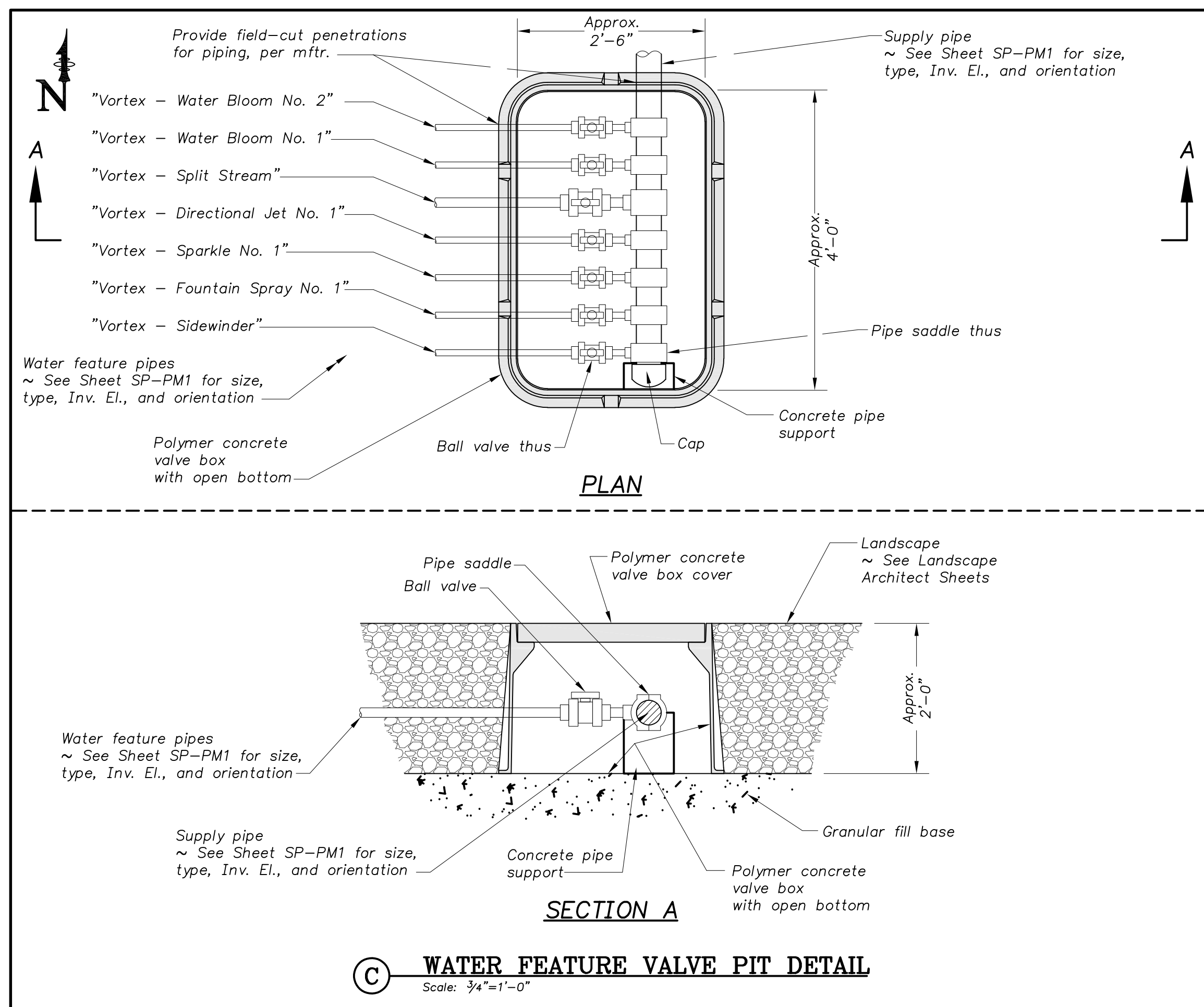
Water's Edge Aquatic Design
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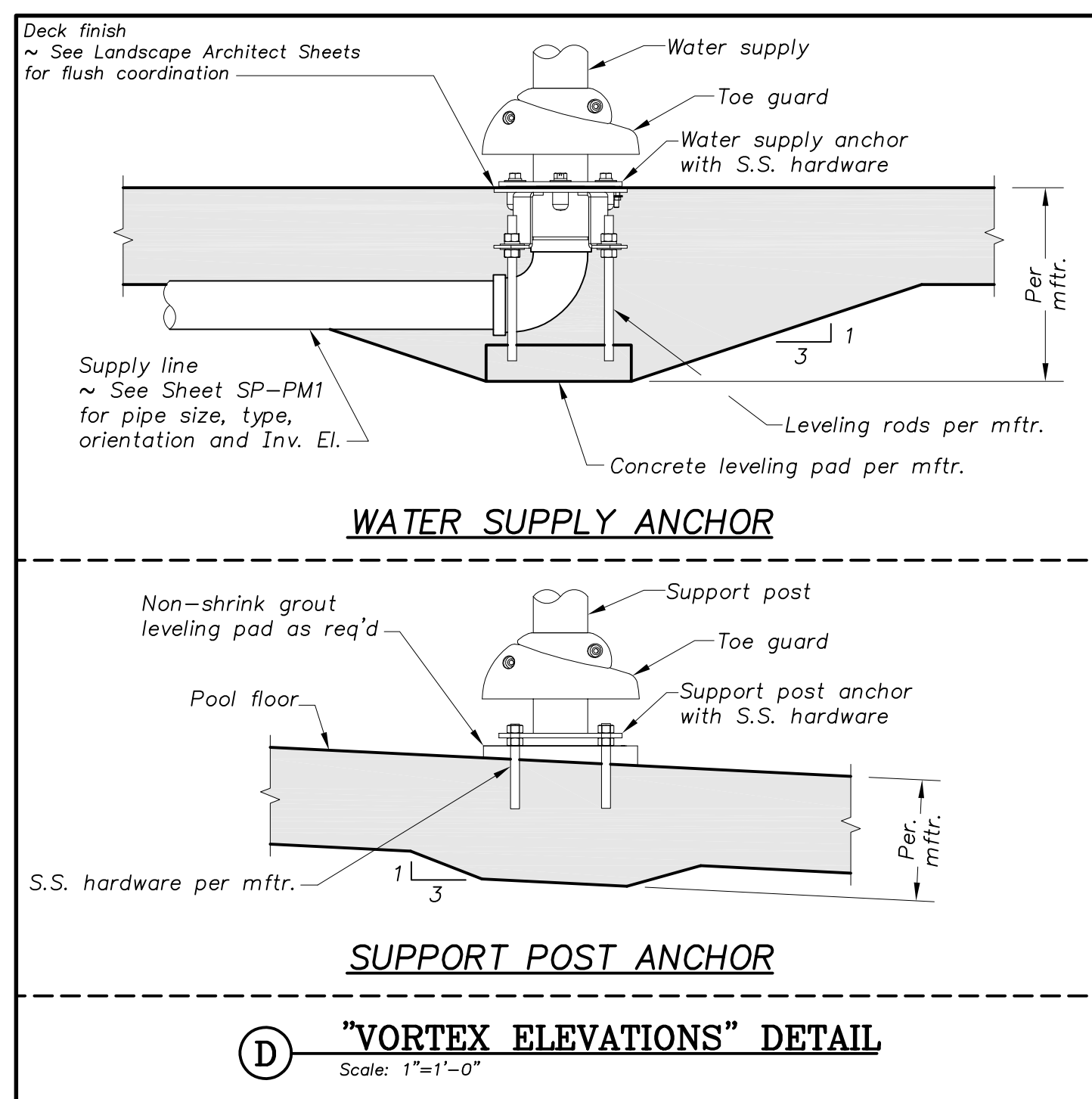
A EXISTING POOL DEMO AND BACKFILL DETAIL
Scale: 1/2"=1'-0"



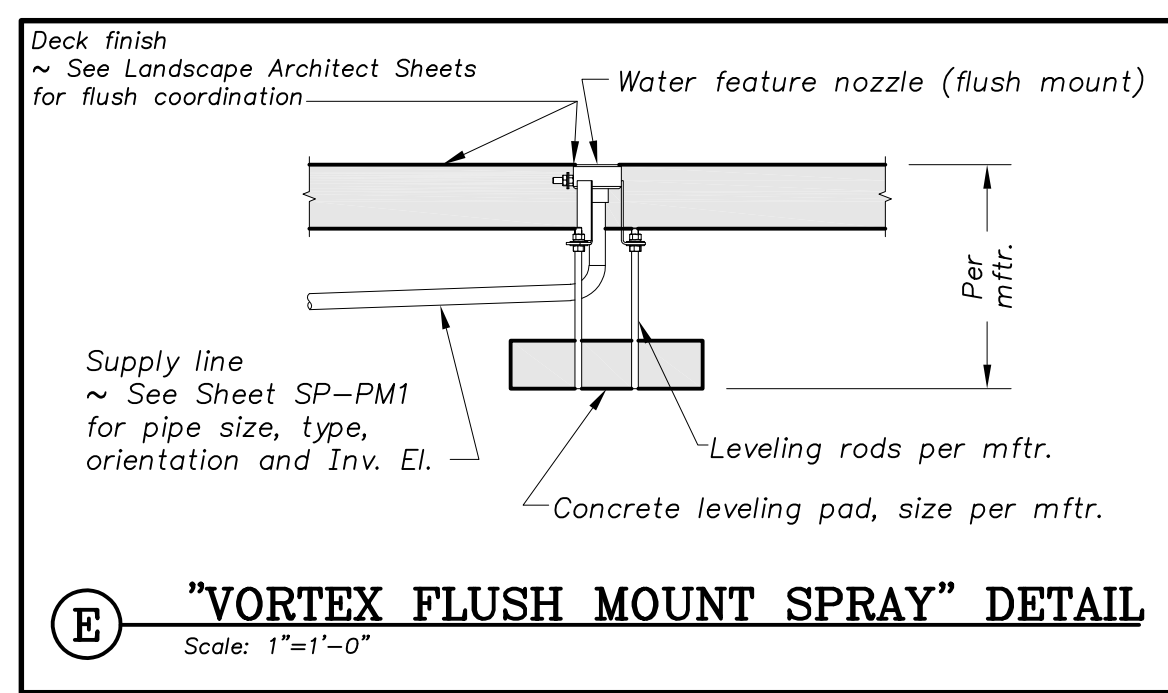
B "VORTEX DRAIN" DETAIL
Scale: 1"=1'-0"



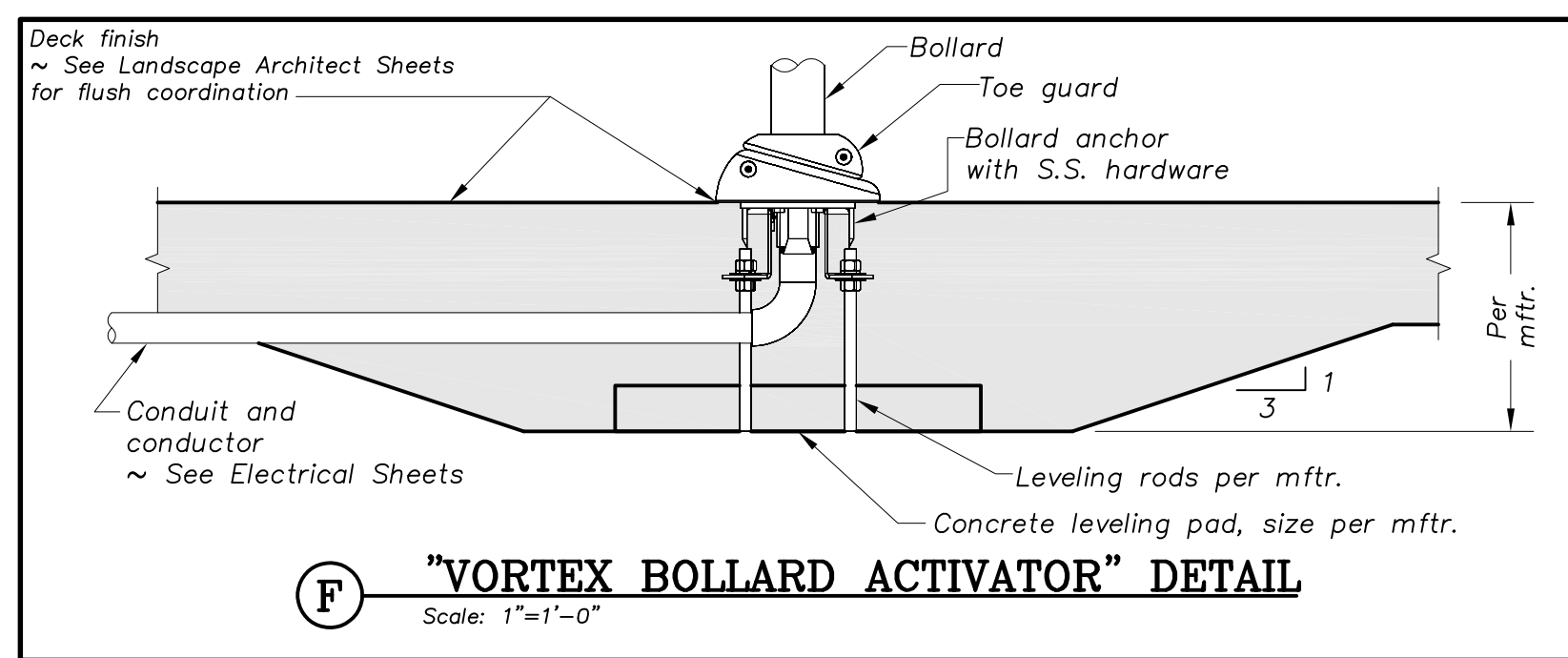
C WATER FEATURE VALVE PIT DETAIL
Scale: 3/4"=1'-0"



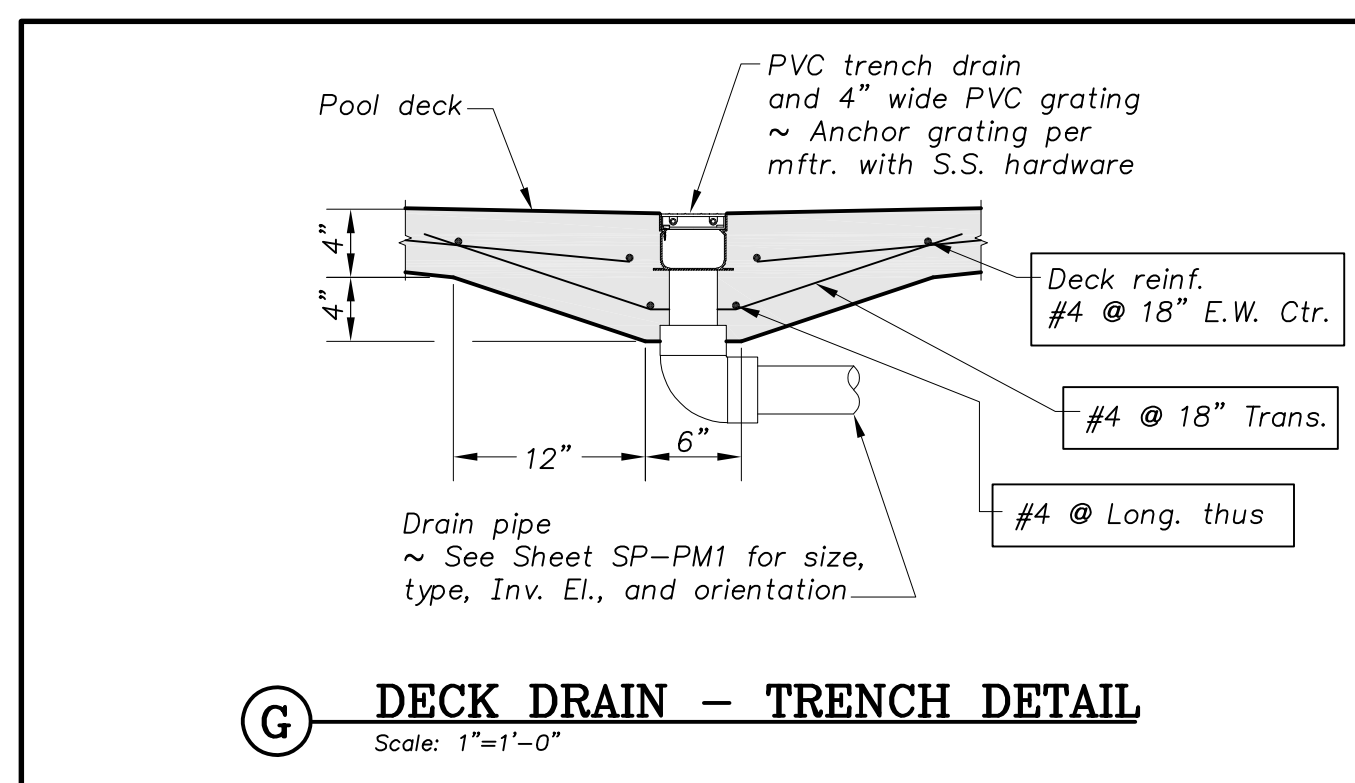
D "VORTEX ELEVATIONS" DETAIL
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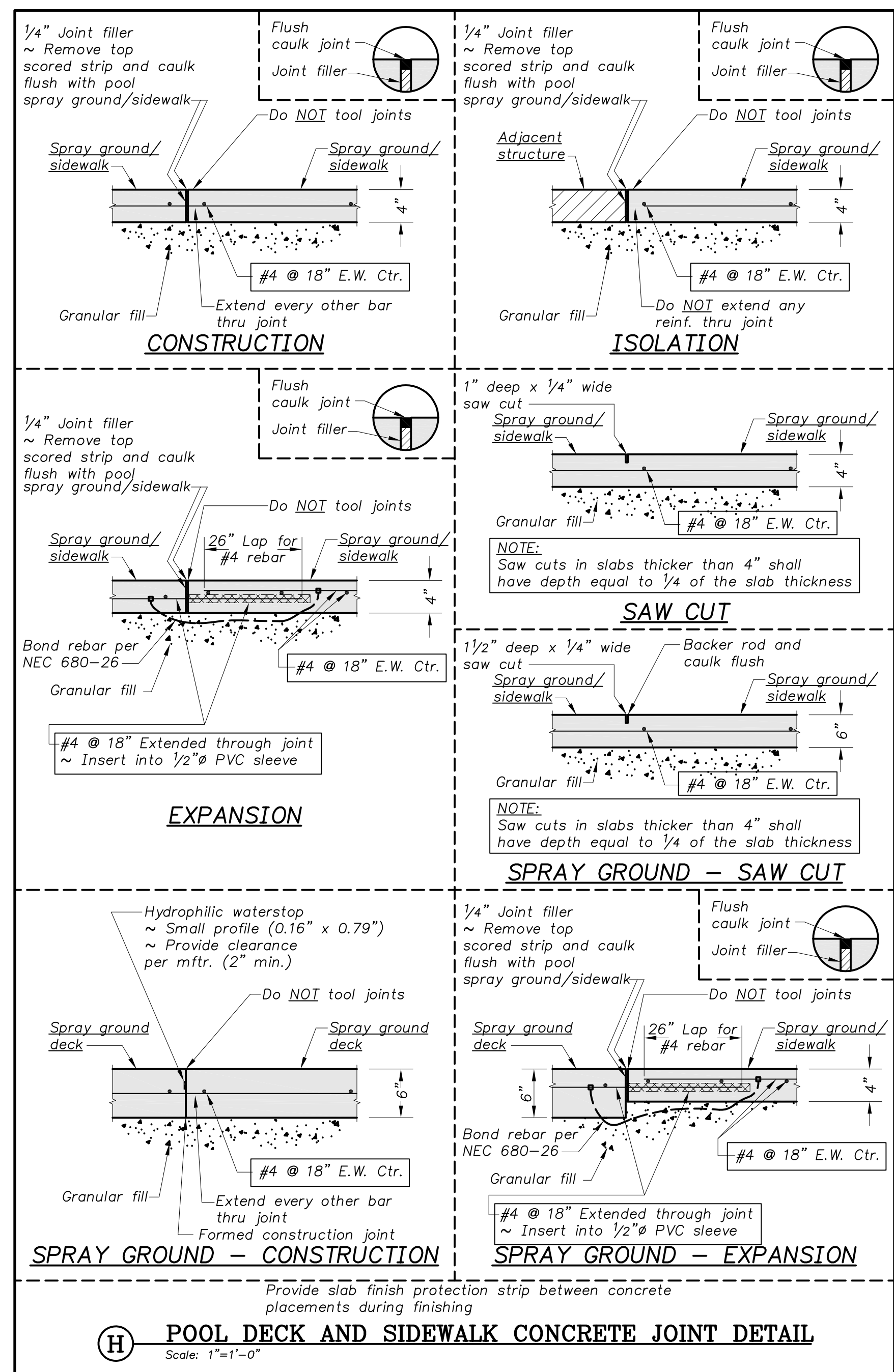
E "VORTEX FLUSH MOUNT SPRAY" DETAIL
Scale: 1"=1'-0"



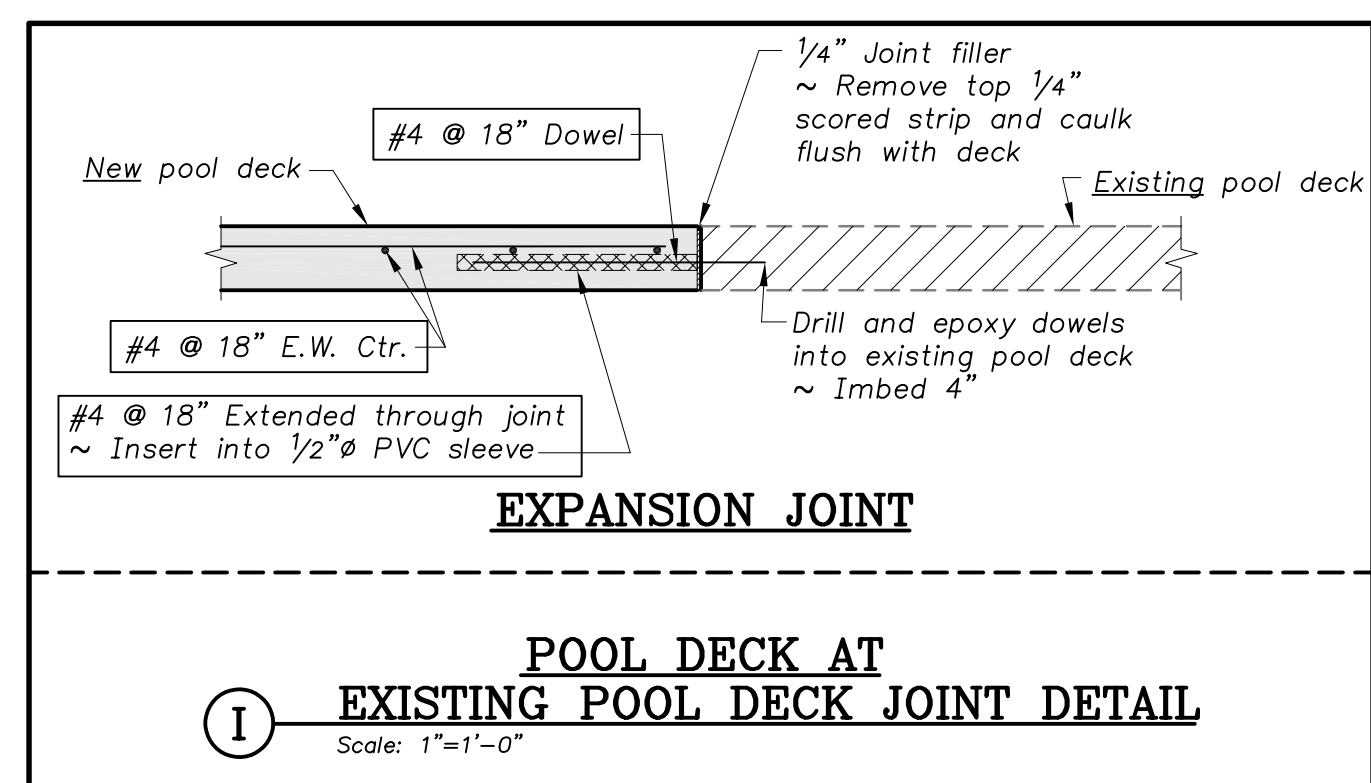
F "VORTEX BOLLARD ACTIVATOR" DETAIL
Scale: 1"=1'-0"



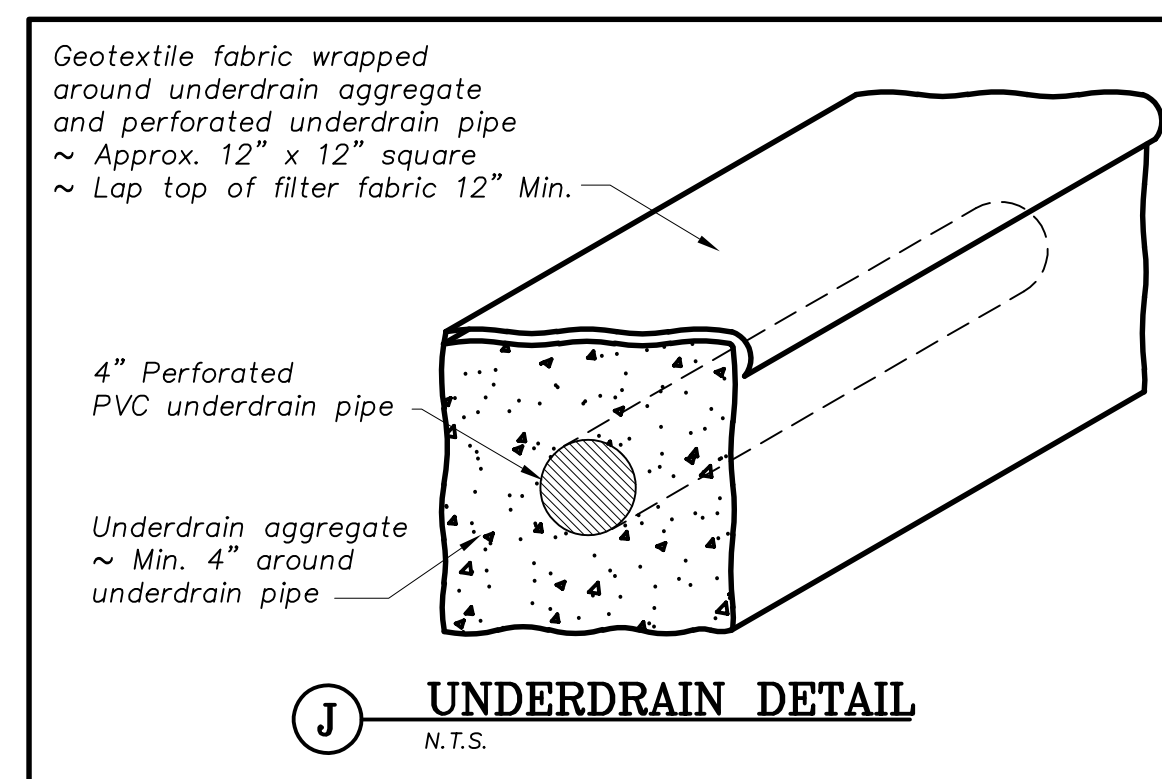
G DECK DRAIN - TRENCH DETAIL
Scale: 1"=1'-0"



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



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



J UNDERDRAIN DETAIL
N.T.S.

EXISTING FILTER AREA DEMO KEY NOTES

1. Protect existing filter building structure
2. Protect existing filter building doors
3. Existing chlorine room area
4. Demo/remove existing CMU wall
5. Existing storage room area
6. Salvage all existing related chemical feed systems. Present to Owner for assessment to be reused/reinstalled
7. Existing – Pool gutter drain piping
8. Demo/remove existing valve at end of pipe
9. Existing pipe opening within pit to remain. Demo/remove valve if located at end of pipe
10. Existing – Pool gutter end of season drain piping
11. Demo/remove existing valves and piping in pit
12. Existing – Pool main drain piping
13. Demo/remove existing float operated valve
14. Protect existing 4" – Domestic water main to filter building and valve
15. Demo/remove partial of 4" – Pool manual fill line
16. Protect existing 1" – Water service line routed to filter area chlorine room
17. Existing – Wading Pool main drain piping
18. Demo/remove –Wading pool main drain/end of season drain piping in pit
19. Protect existing pool underdrain piping
20. Existing pool return piping abandoned
21. Protect existing pool wet basin structure
22. Protect existing wet basin drain
23. Demo/remove existing pool filter mechanical equipment identified unless otherwise noted or needed for complete system
24. Protect existing drain basin structure
25. Protect existing handrails around pits
26. Protect existing pump pit stairs
27. Protect existing pump pit area
28. Protect existing pit manhole steps
29. Salvage existing erosion feeder. Provide to owner for assessment to be reused/reinstalled
30. Protect existing wood planks and grating used to cover pits
31. Approximate location of electrical panels beyond
32. Existing drain piping vent riser
33. Existing drain pit drain to manhole. Field verify
34. Existing wet pit drain discharged into drain pit

FILTER AREA IMPROVEMENT KEY NOTES

1. 12" Spray ground main drain return piping – See PM1 sheet
2. 6" Spray ground off season drain piping – See PM1 sheet
3. Provide cored hole within existing wall, followed by link seal fitting around pipe, finished with non shrink grout on wet side of pit
4. Throttling Butterfly Valve ~ Wheel operated valve at supply lines (water features, pool recirc, backwash discharge)
5. Isolation Butterfly Valve ~ Lever or hand-wheel operated (Pumps, float valve) for isolation
 - a. Provide S.S. operator extension stem guide for submerged valves anchored with S.S. hardware as req'd. Extend stem extension 12" below existing wooden planks – Provide valve key for stem nut
6. Existing 10" Pool gutter piping capped/abandon – See D1 sheet for further information and pipe route
7. Existing 4" Pool gutter end of season piping capped/abandon – See D1 sheet for further information and pipe route
8. Existing 10" Pool main drain capped/abandon – See D1 sheet for further information and pipe route
9. Blind flange fitting at end of pipe
10. Existing 4" Pool end of season main drain capped/abandon – See D1 sheet for further information and pipe route
11. Existing 4" Under drain piping
12. PVC cap
13. Provide granular fill bed followed by grout filled floor poured up to existing pipe invert in pit wall
 - a. Existing pipe opening in wall
14. Fill annular spaces with non shrink grout
15. Existing 4" Pool manual fill
16. 4" Pool manual fill piping re-routed over top deep wet pit area. Provide 3" air gap above pit wall
17. Mechanical auto fill supply piping – See Detail G-SP-F4
18. Mechanical auto fill device – See Detail G-SP-F4
19. Mechanical auto fill discharge piping – See Detail G-SP-F4
20. Existing pool return piping capped/abandoned
21. Pipe supports – See Details D,E,F-SP-F4
22. Concrete pipe supports – See Detail A-SP-F4
23. 6" Recirc pump suction
24. Recirc pump on concrete base – See Detail B-SP-F4
25. 4" Recirc pump discharge/filter influent piping
26. Magmeter flow meter
27. 4" Filter face piping
28. Floor mount pipe supports – Saddle type
29. 3'-0"Ø Spray ground fiberglass filters
30. Air release valves top of filters – See Detail H-SP-F4
31. Filter pressure gauges mounted to filter face piping with S.S. hardware
32. 4" Filter effluent/UV influent piping
33. UV bypass piping
34. PVC blind flange
35. UV Vessel and Controller (N.I.C.)
36. Connection TO Chemical Controller – See Detail C,D-SP-F5
37. Connection TO Erosion Feeder – See Detail-B,D-SP-F5
38. Connection FROM Muriatic Acid feed system – See Detail C,D-SP-F5
39. Erosion Feeder discharged into pit
40. 4" Filter return piping discharged into pit
41. Low water cut-off switch with baffle – Set float 18" above recirc pump suction
42. 4" Filter backwash laterals
43. 4" Filter backwash main header piping discharged into drain pit. Set open end 3" above pit wall
44. 8" Spray ground – Water features header pump suction piping
45. Reducer bushing
46. Pipe saddle
47. Solenoid valve
48. Ball valve
49. Union fitting
50. 6" "Water play structure" – Spray ground pump suction
51. Reducing flexible connector – Eccentric with flat side up on pump suction (horizontal) Concentric on pump discharge
52. Inline basket strainer on concrete base. Provide manual air bleed valve in lid

53. Pump connection – See Detail C-SP-F4
54. Water play structure pump concrete base – See Detail B-SP-F4
55. 4" "Water play structure" header supply piping
56. 4" "Water play structure" supply piping
57. 4" "West sprays" features pump suction piping
58. West spray features pump on concrete base – See Detail B-SP-F4
59. 3" "West sprays" supply piping
60. 6" " East sprays" features pump suction piping
61. East sprays features pump on concrete base – See Detail B-SP-F4
62. 4" "East sprays" features supply piping
63. 4" "South sprays" features pump suction piping
64. South sprays features pump on concrete base – See Detail B-SP-F4
65. 2½" "South sprays" supply piping
66. Muriatic Acid chemical storage drums and feeder system furnished by Owner/installed by Contractor
67. Existing erosion feeder – Reinstalled or Furnished by Owner, installed by Contractor
68. Drain valve. Provide tap or appropriate fitting to allow release of water at low point of piping, pumps volutes, strainer baskets, etc.
69. Spray ground – Chemical controller reinstalled or furnished by Owner/installed by Contractor
70. Spray ground – Features control panel
71. Existing wood planks/grates re-installed over existing pits
72. Emergency eyewash/shower. Anchor with S.S. hardware
73. Provide 1¼" tempered water connection with mixing valve from existing bathhouse water supply
74. 8 CMU wall.Wall height shall match exterior building wall height
75. Pump hoist anchor
76. Removable pump hoist

IMPORTANT NOTE
New pump hoist 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 (m. nutes)	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	F low (gpm)	TDH (ft.)	Shut-off Head (max.) (ft.)	Efficiency +/- 5%	HP	RPM	VFD	
Spray Ground	Recirc	240	45	19	95	n/a	5	3,600	Yes
Spray Ground	Water P ay Structure	390	65	28	76	78	10	1,800	Yes
Spray Ground	West Sprays	108	78	34	95	n/a	5	3,600	Yes
Spray Ground	East Sprays	255	36	16	95	n/a	5	3,600	Yes
Spray Ground	South Sprays (boulder area)	70	48	21	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**
1. Pipe type shall be Sch 80 PVC unless noted otherwise
 2. Refer to Pool Mechanical Sheets for pipe types beyond the building
 3. Pipe sizes are identified in inches on the drawings
 4. Pipe connection hardware shall be S.S. within Pool Mechanical Room
 5. Contractor shall provide and install unilflanges/unions as req'd
 6. Sch 80 PVC fittings may be solvent weld or flanged at Contractor's option
 7. All piping and fittings at equipment (filters, pumps, valves, etc.) shall be flanged
~ PVC flanges at fittings shall be male type as shown
 8. 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
 9. All hardware shall be S.S.
 10. Provide air release valve at all high loops in piping
 11. Provide drain valve at all low points in piping
 12. All piping through concrete structures shall be cast-in-place
~ No pipe sleeves or coring allowed



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Jeff Bartley-ENGINEER
LICENSE #15116

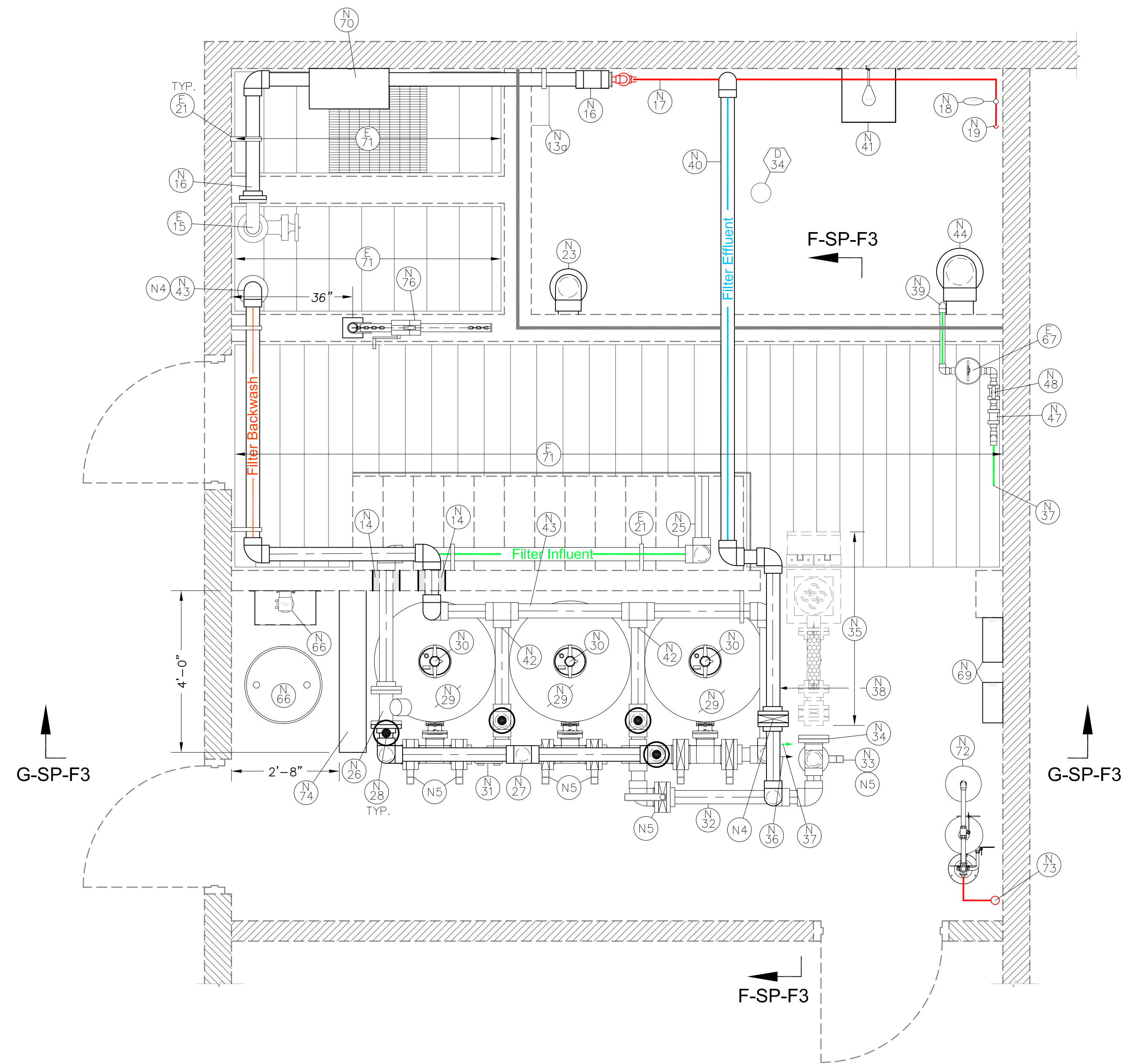
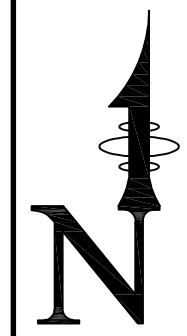
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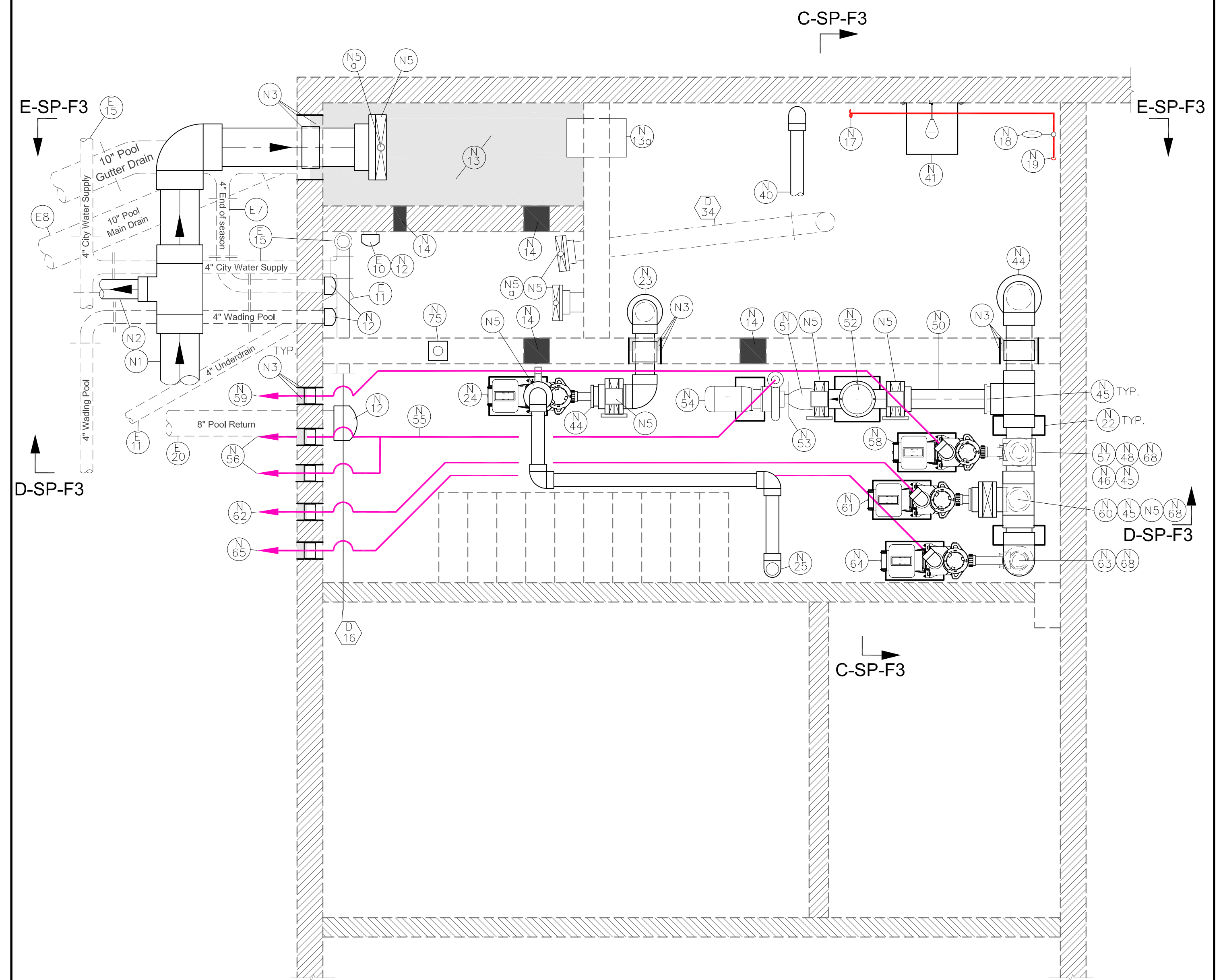
Issue: CONSTRUCTION DOCUMENTS

FILTER AREA IMPROVEMENT DATA AND KEY NOTES

SP-F0



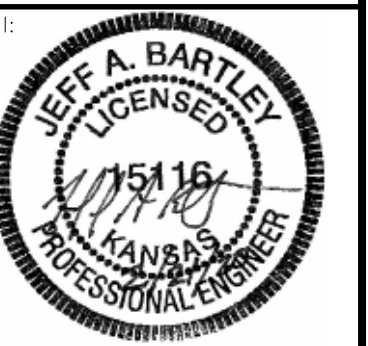
(A) FILTER AREA IMPROVEMENT PLAN
Scale: 1/2"=1'-0"



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



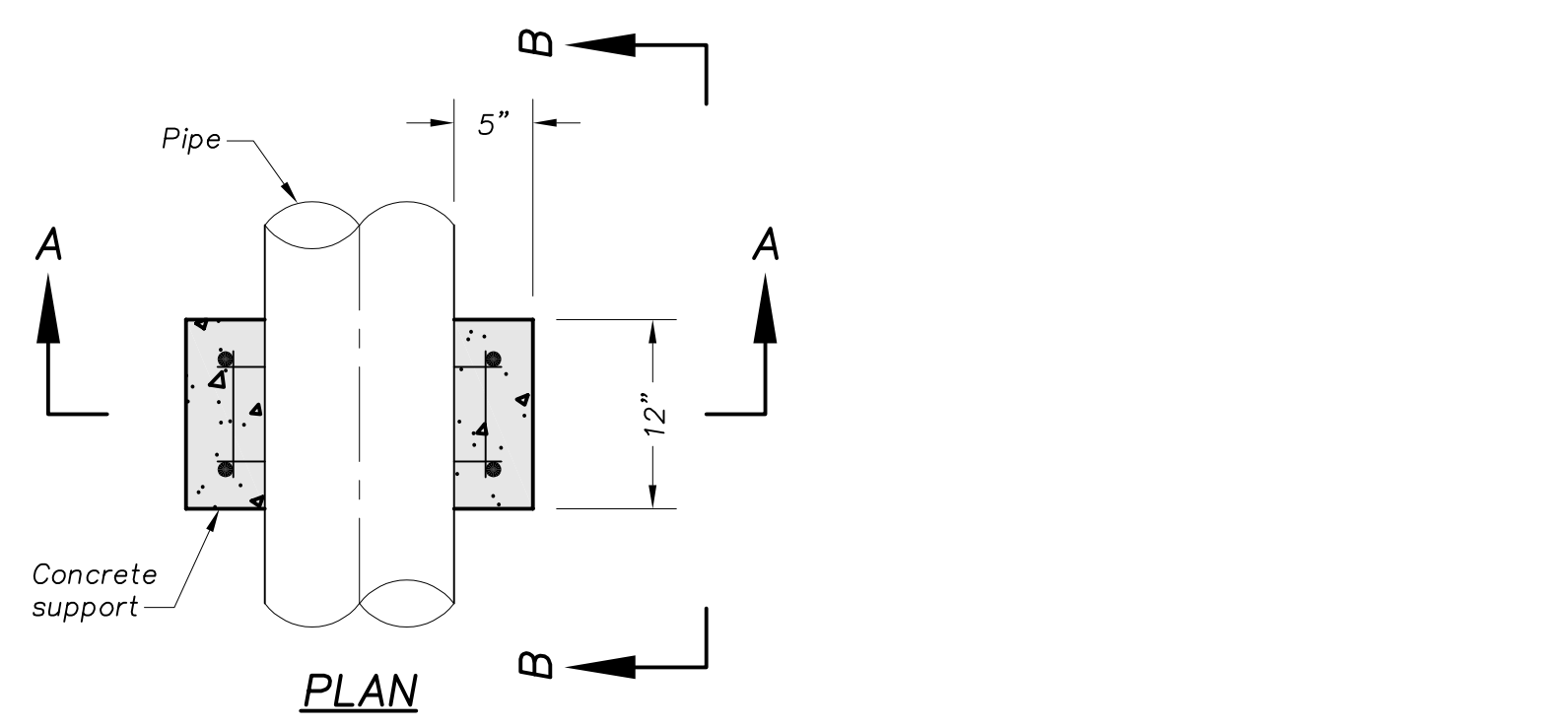
WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



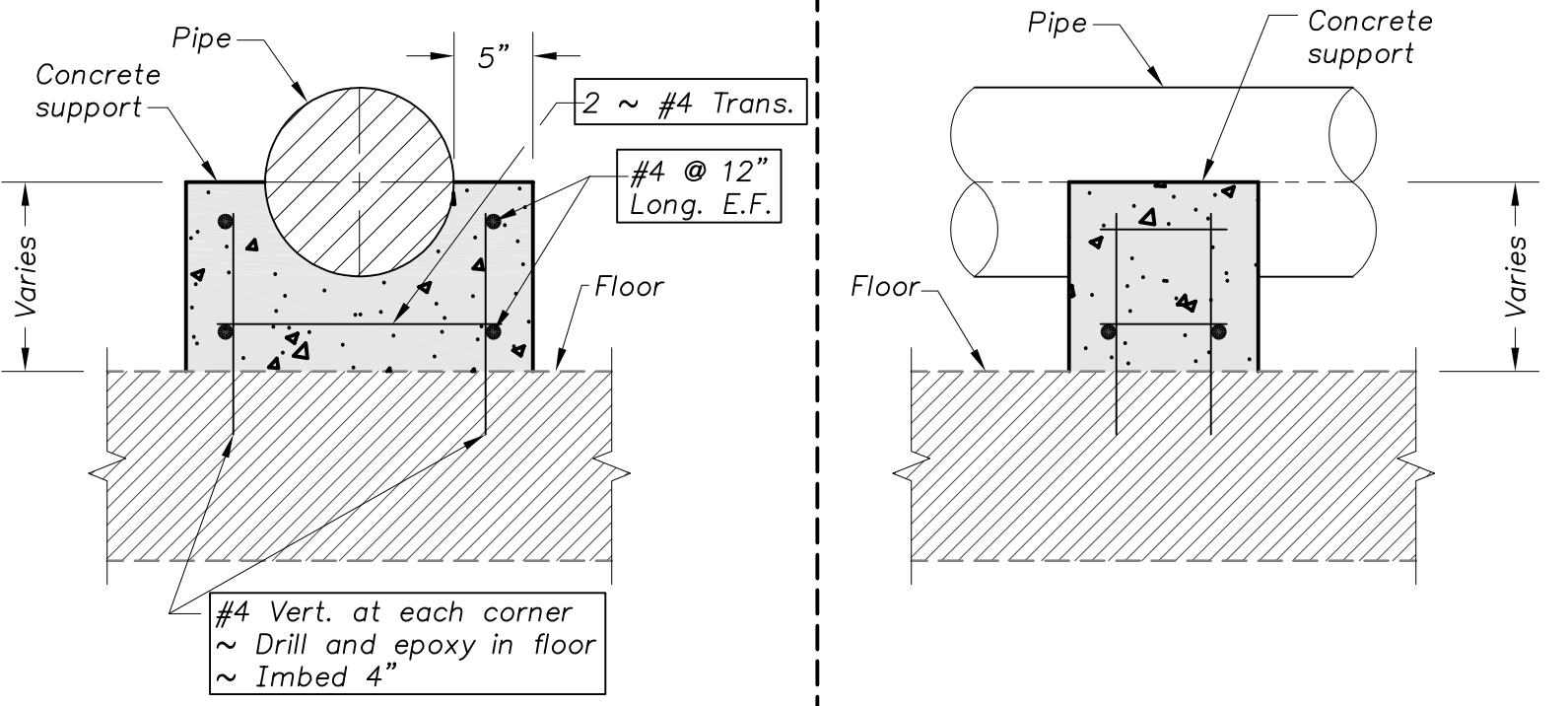
Jeff Bartley - ENGINEER
LICENSE #15116
Date: 02-21-20 Job #: 18-512
Drawn: CJB Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

**FILTER
AREA
IMPROVEMENT
PLAN**

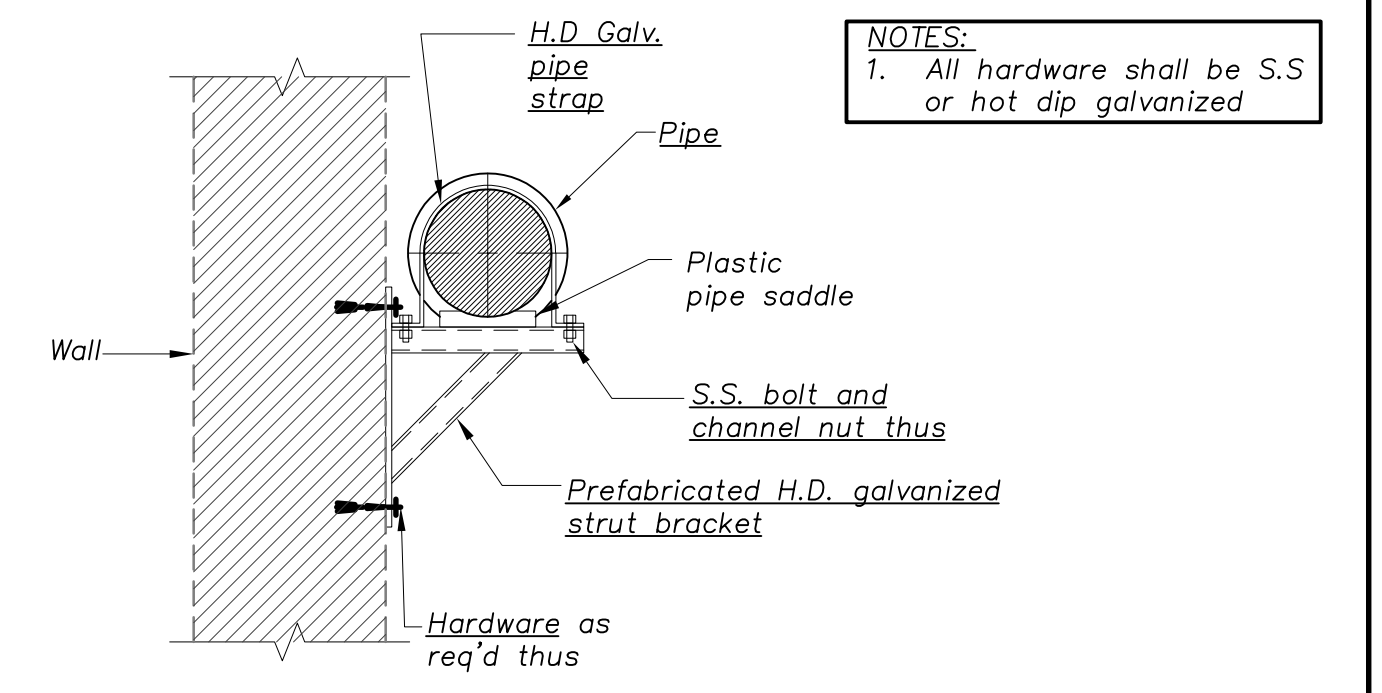
SP-F2



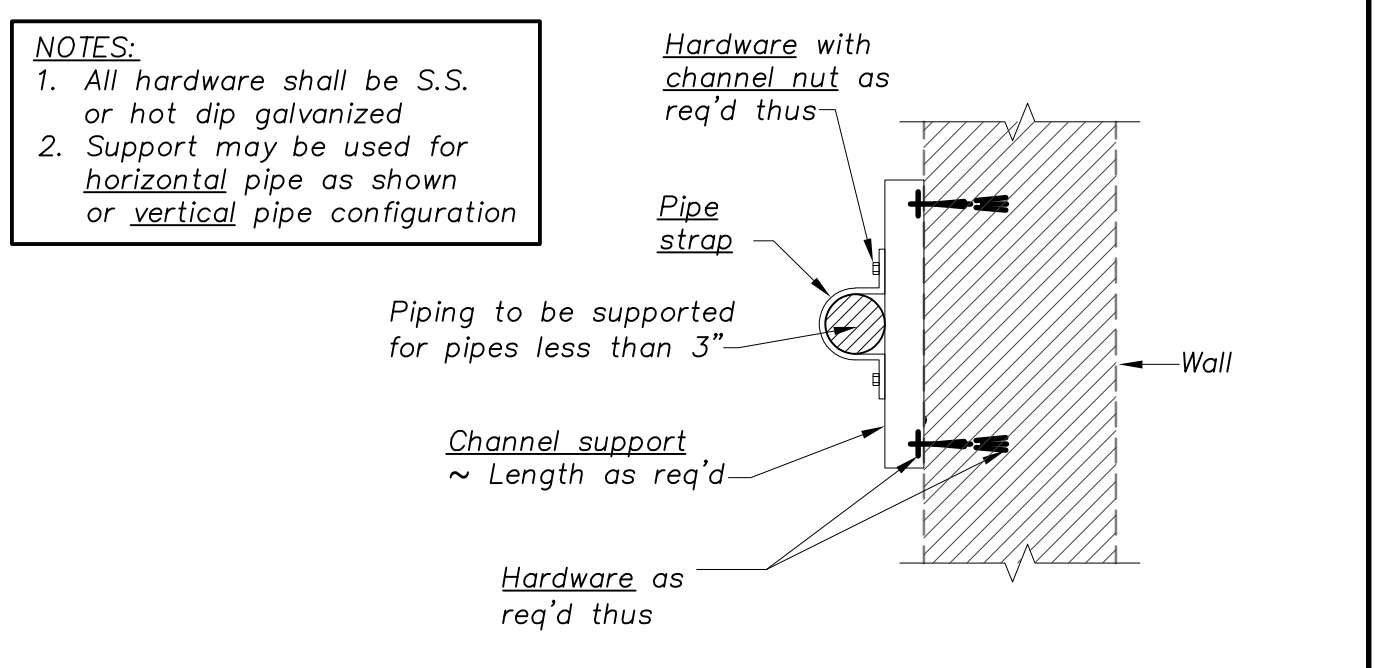
A PIPE SUPPORT - CONCRETE DETAIL
Scale: 1"=1'-0"



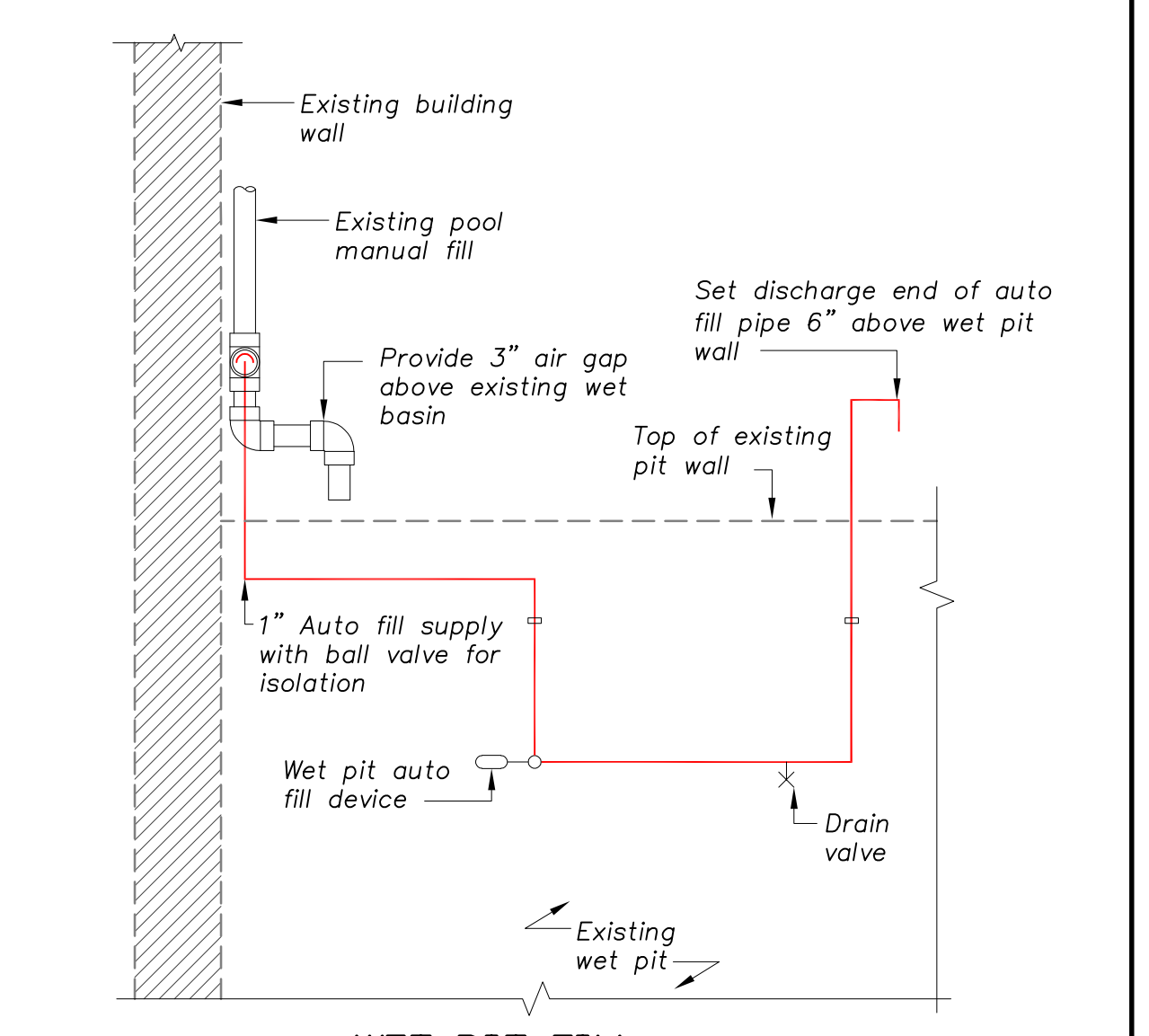
A PIPE SUPPORT - CONCRETE DETAIL
Scale: 1"=1'-0"



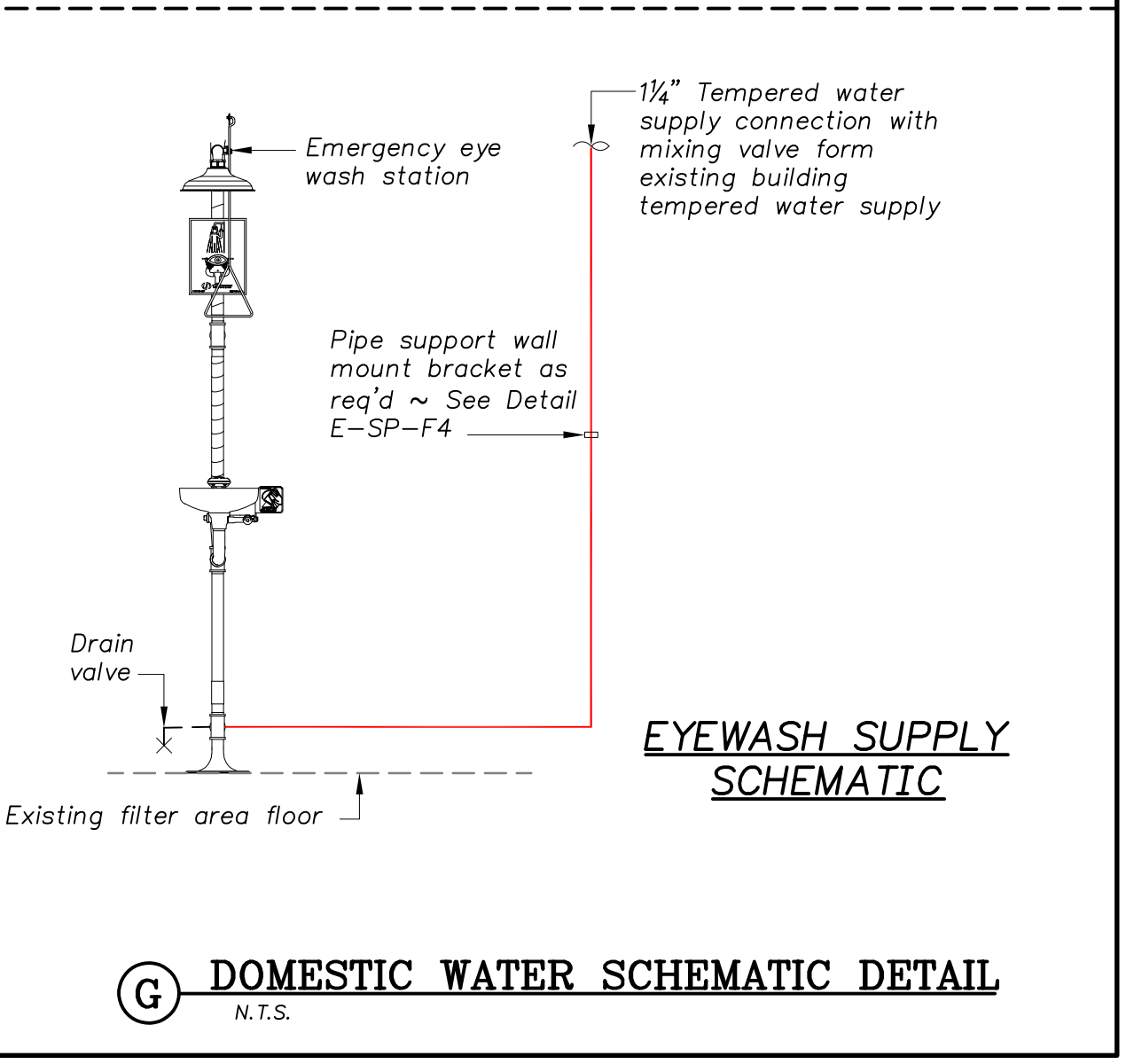
D WALL MOUNT BRACKET DETAIL
Scale: N.T.S.



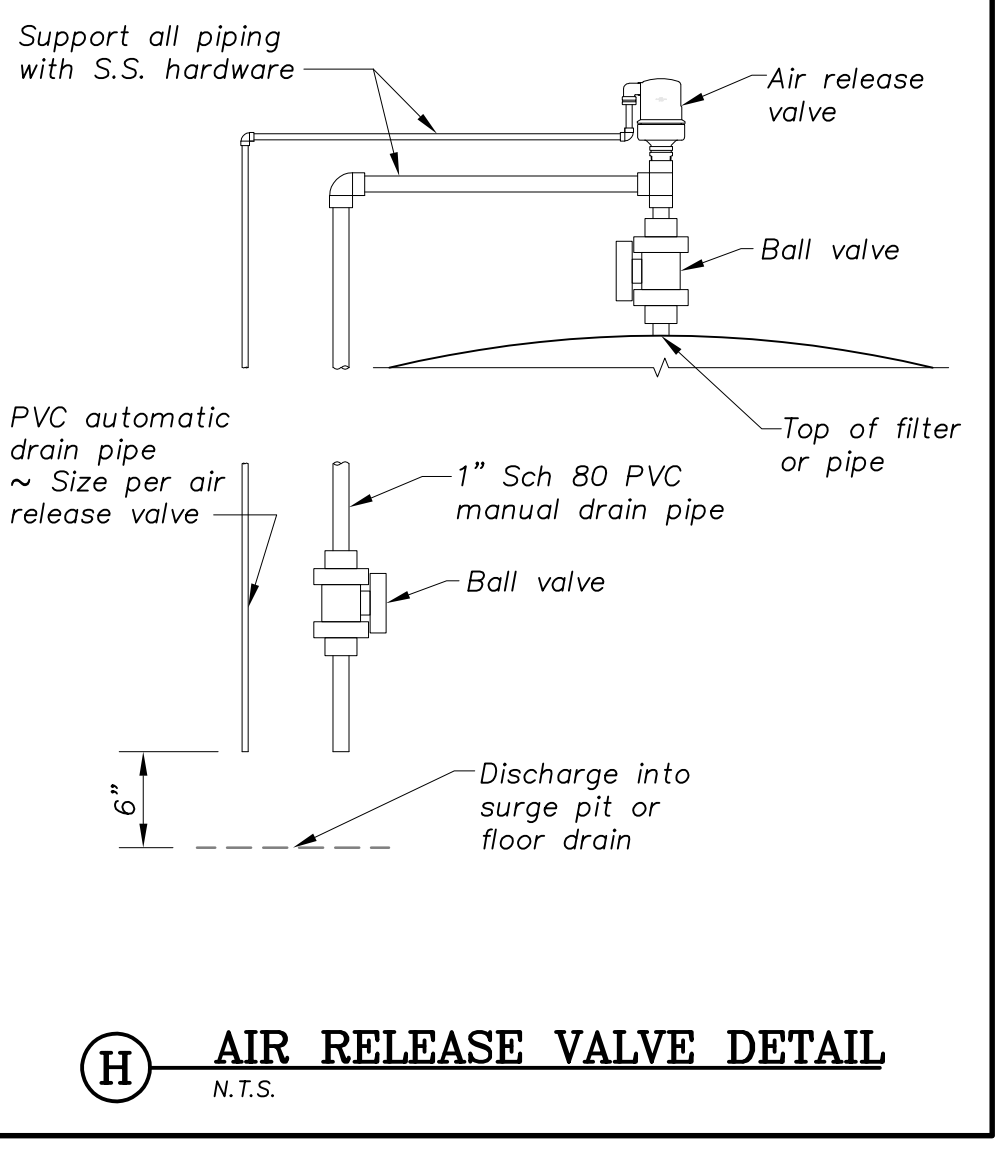
E WALL MOUNT BRACKET DETAIL
Scale: N.T.S.



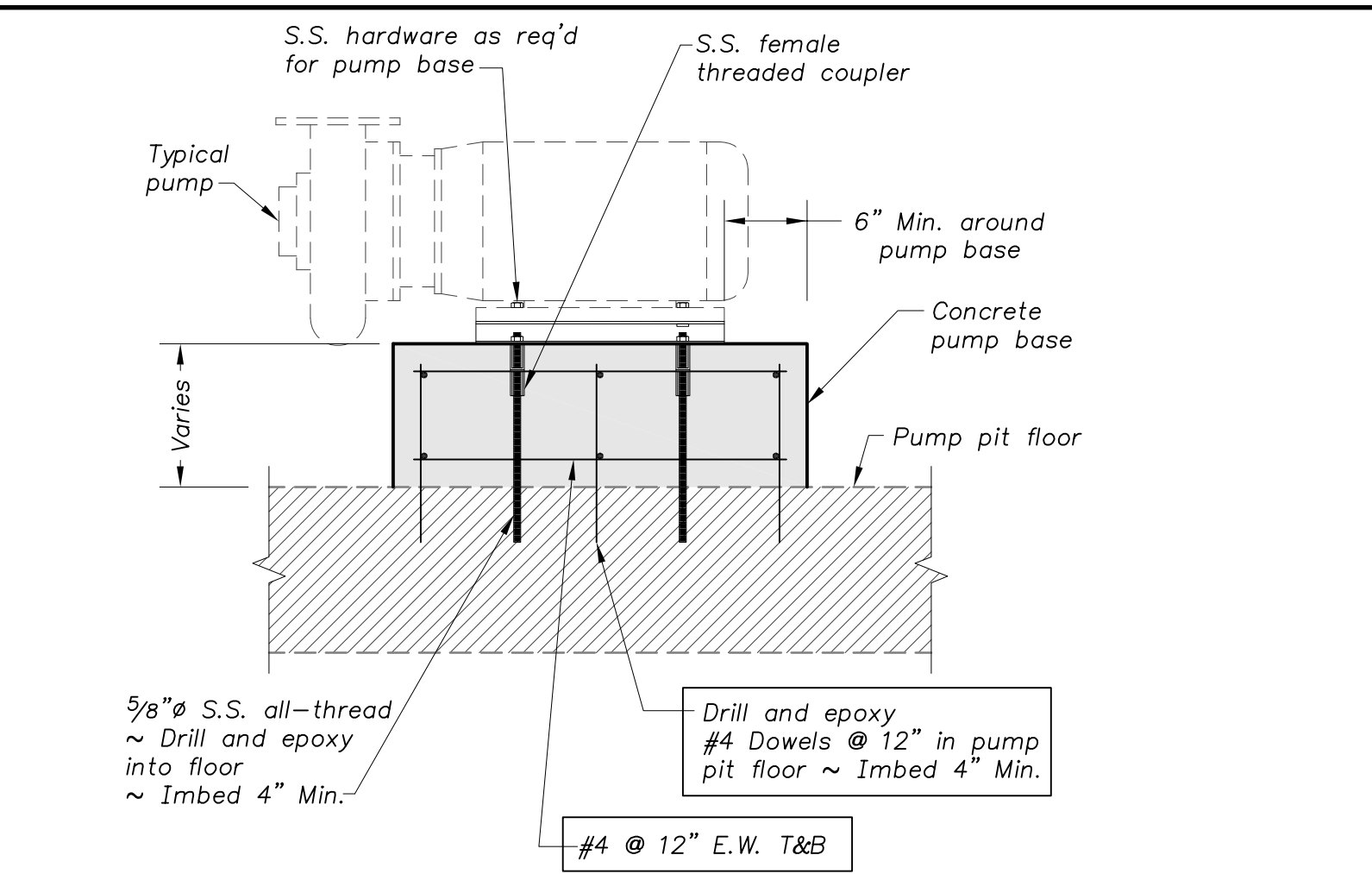
G WET PIT FILL SCHEMATIC



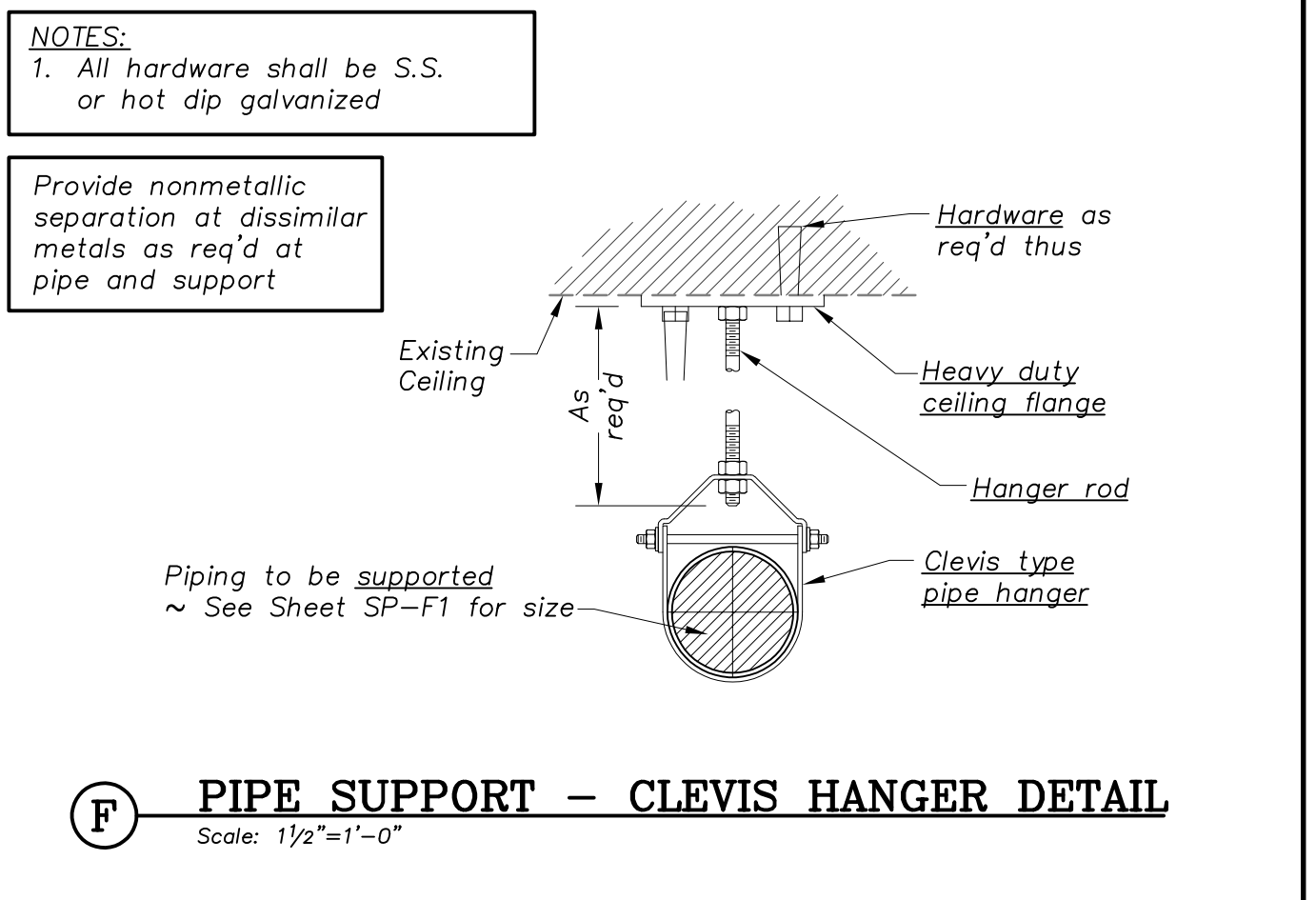
G DOMESTIC WATER SCHEMATIC DETAIL
N.T.S.



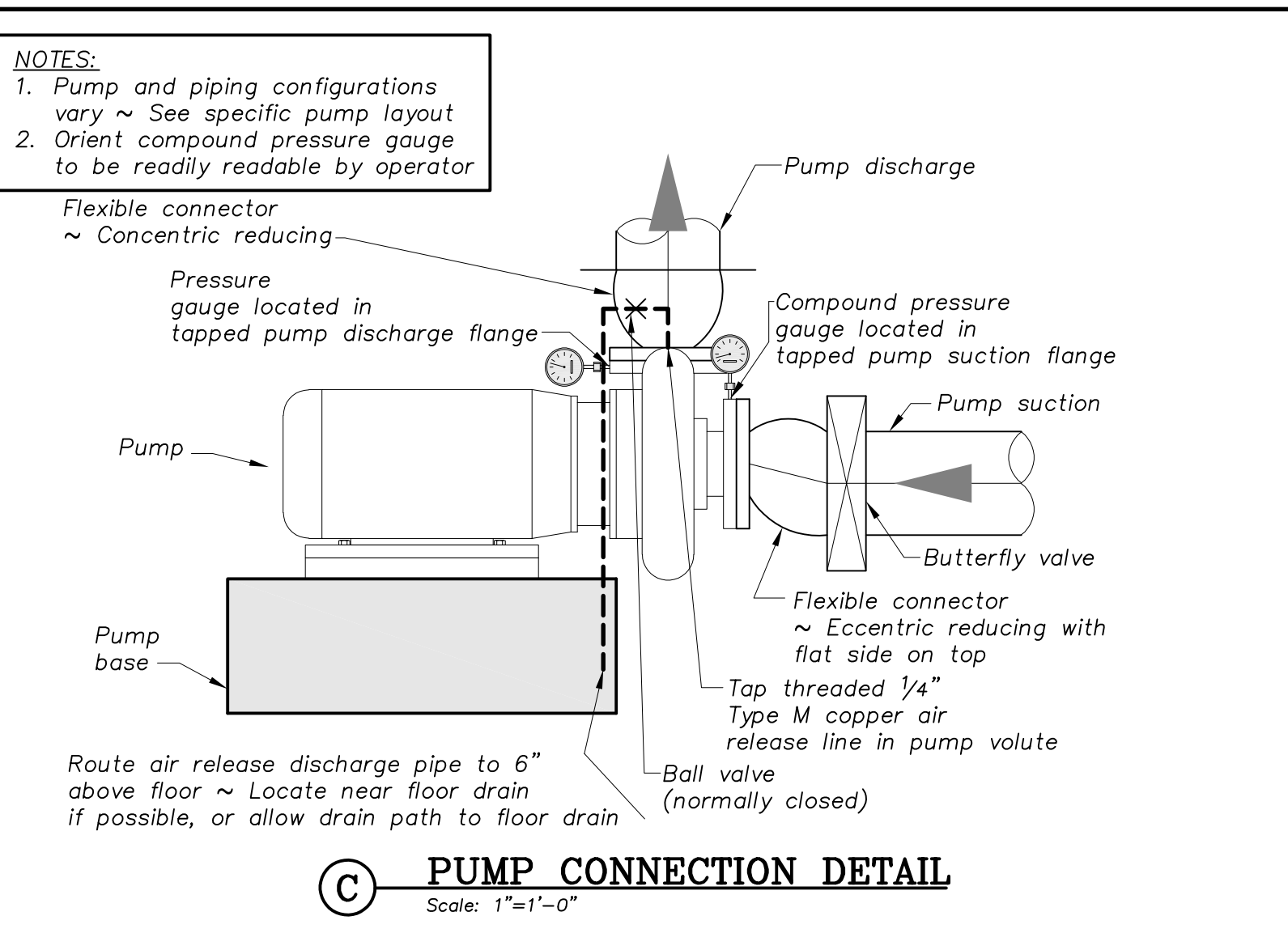
H AIR RELEASE VALVE DETAIL
N.T.S.



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



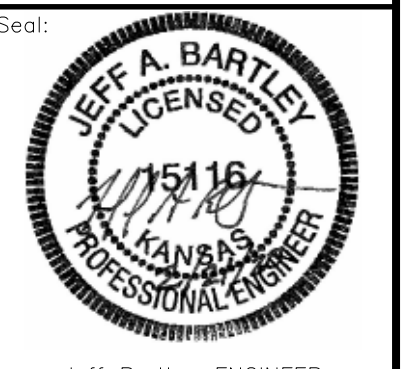
F PIPE SUPPORT - CLEVIS HANGER DETAIL
Scale: 1/2"=1'-0"



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



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK

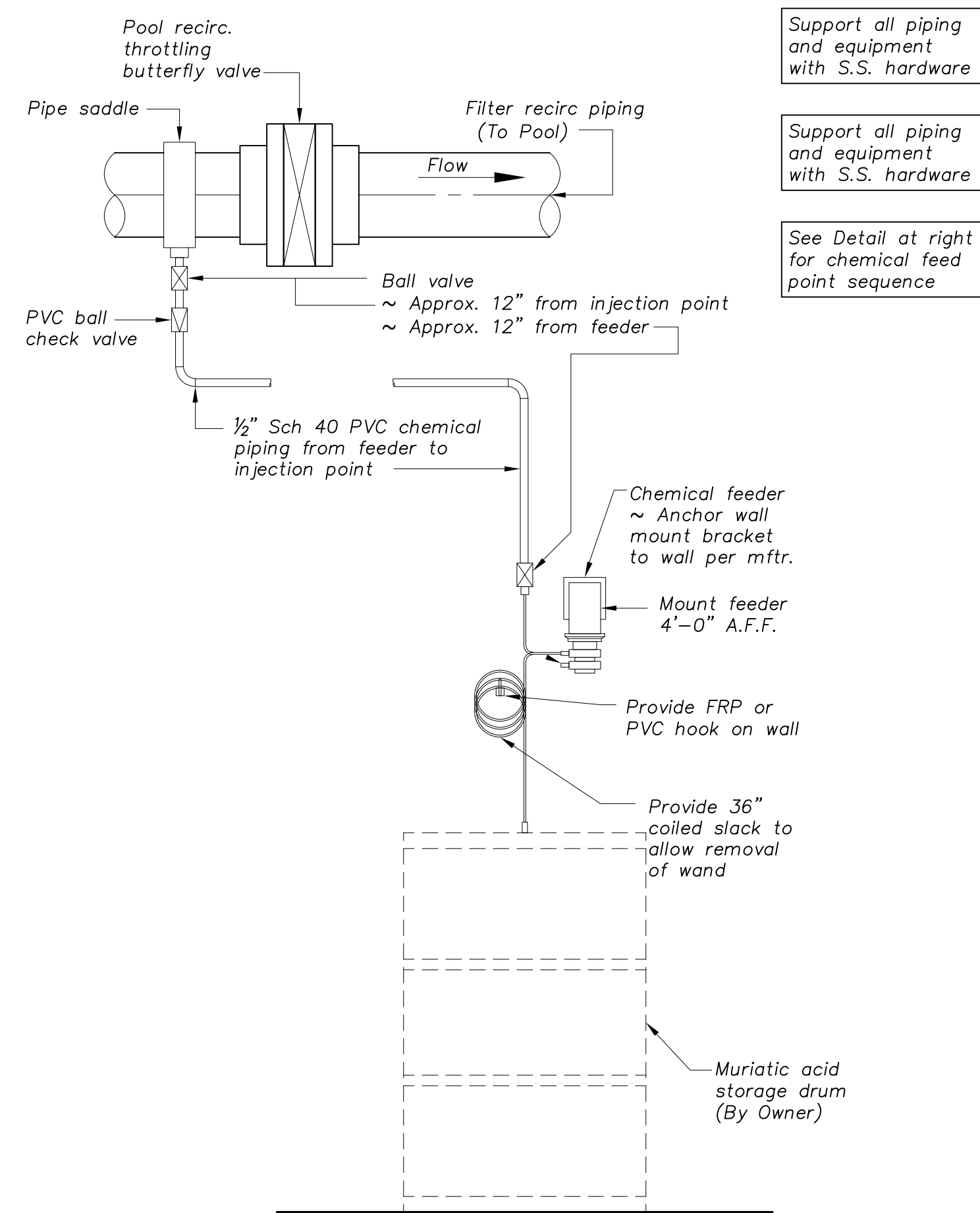


Jeff Bartley - ENGINEER
LICENSE #15116
Date: 02-21-20 Job #: 18-512
Drawn: CJB Checked: JAB

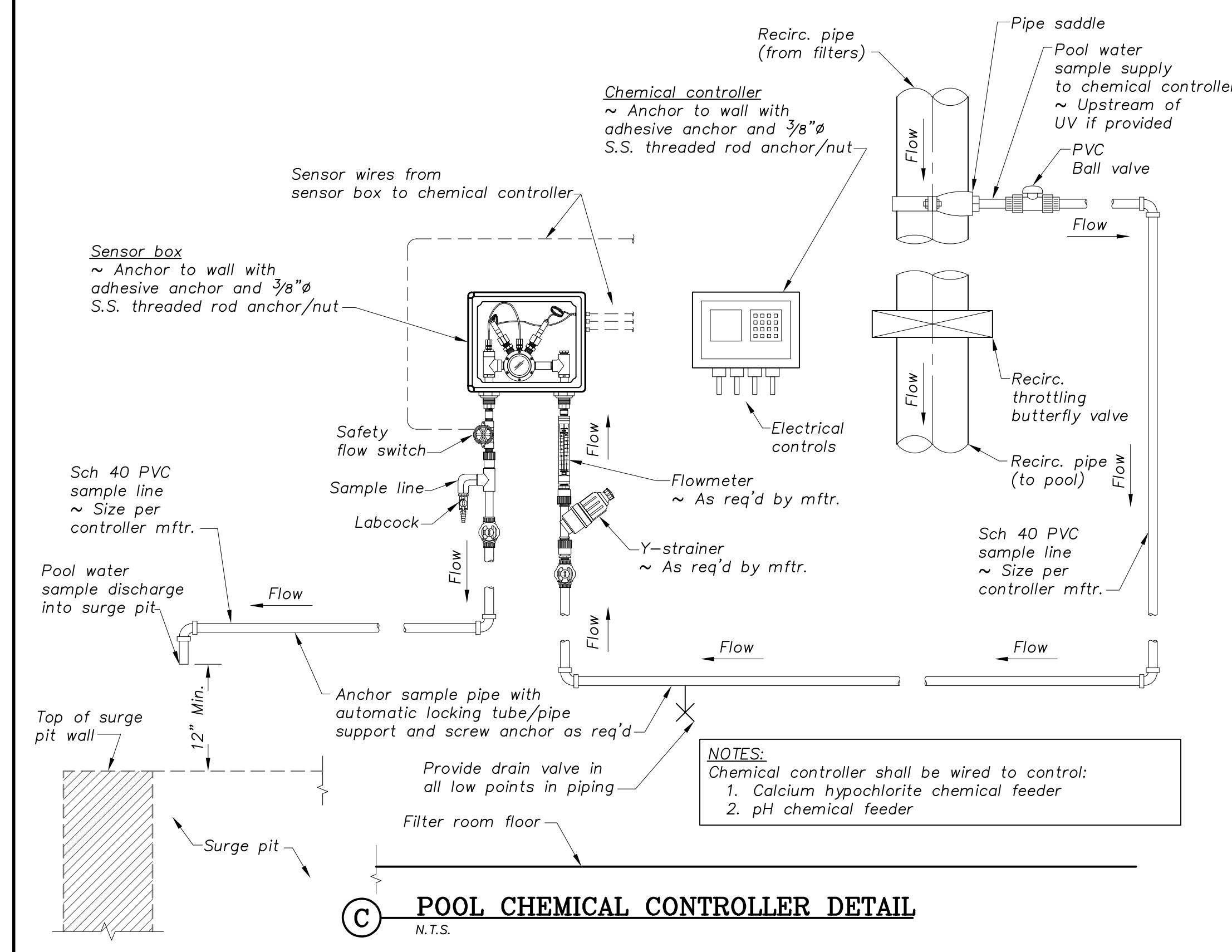
Issue: CONSTRUCTION DOCUMENTS

**FILTER AREA
IMPROVEMENT
DETAILS**

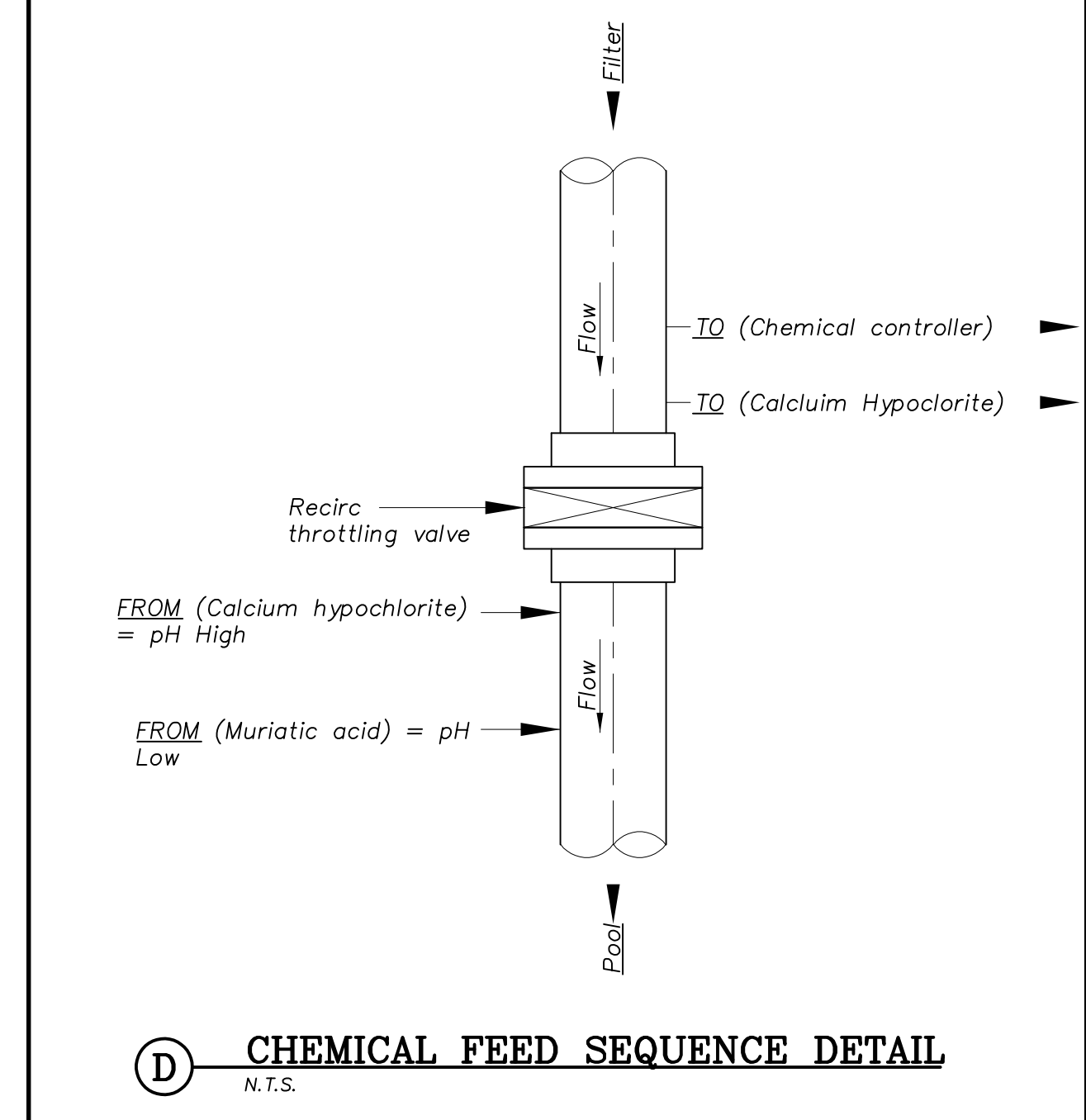
SP-F4



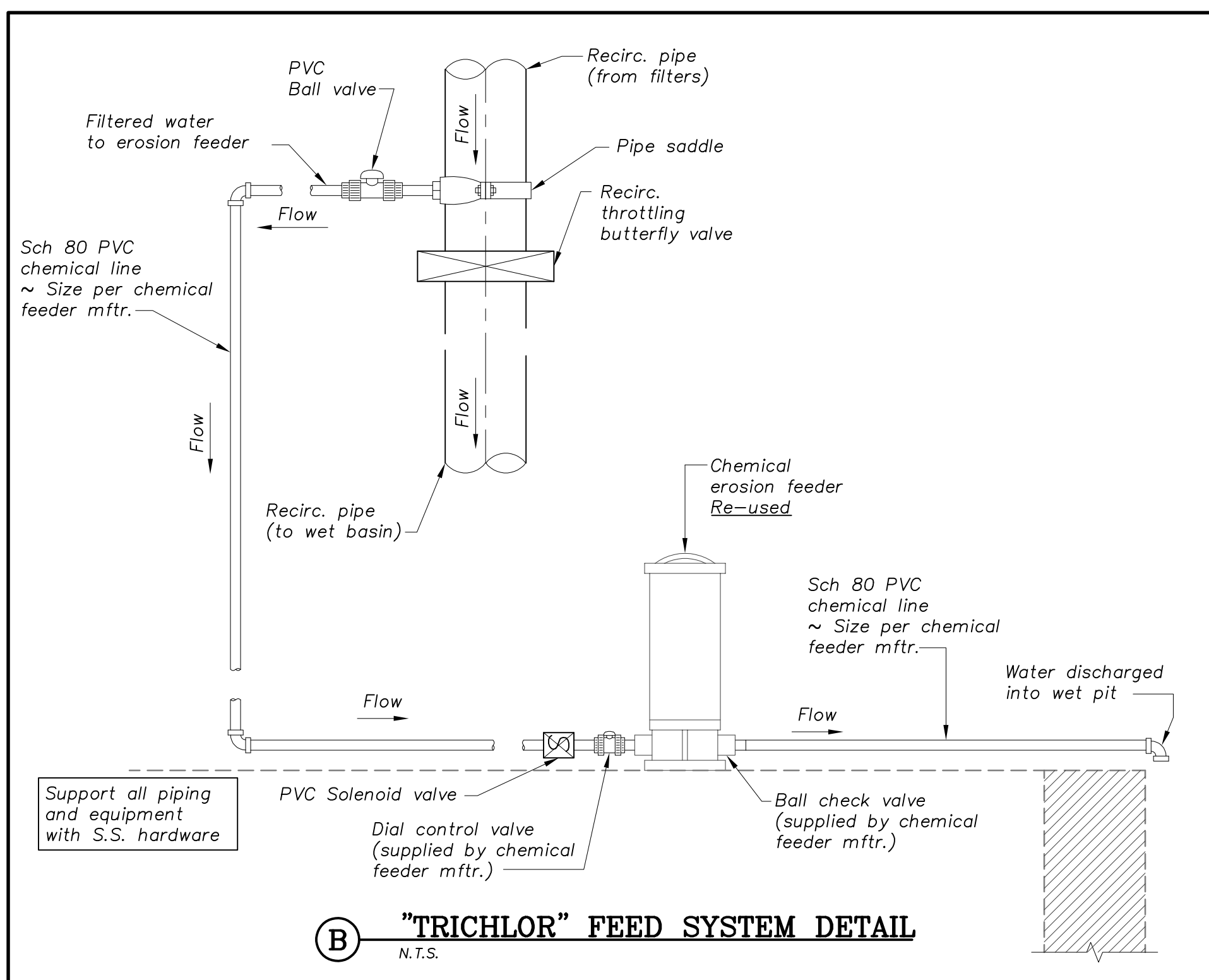
A "MURIATIC ACID" FEED SYSTEM DETAIL
N.T.S.



C POOL CHEMICAL CONTROLLER DETAIL
N.T.S.



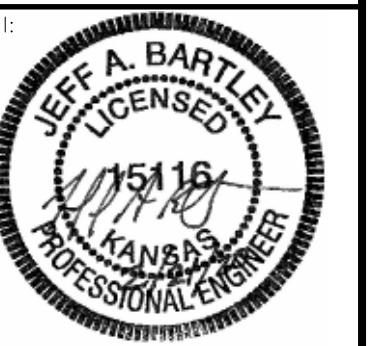
D CHEMICAL FEED SEQUENCE DETAIL
N.T.S.



B "TRICHLOR" FEED SYSTEM DETAIL
N.T.S.



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Jeff Bartley - ENGINEER
LICENSE #15116

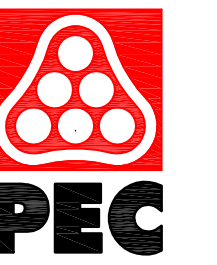
Date: 02-21-20 Job #: 18-512

Drawn: CJB Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

**FILTER AREA
IMPROVEMENT
DETAILS**

SP-F5



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Seal:



Paul Mintz—ARCHITECT
LICENSE #3118

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

Drawn: Checked:

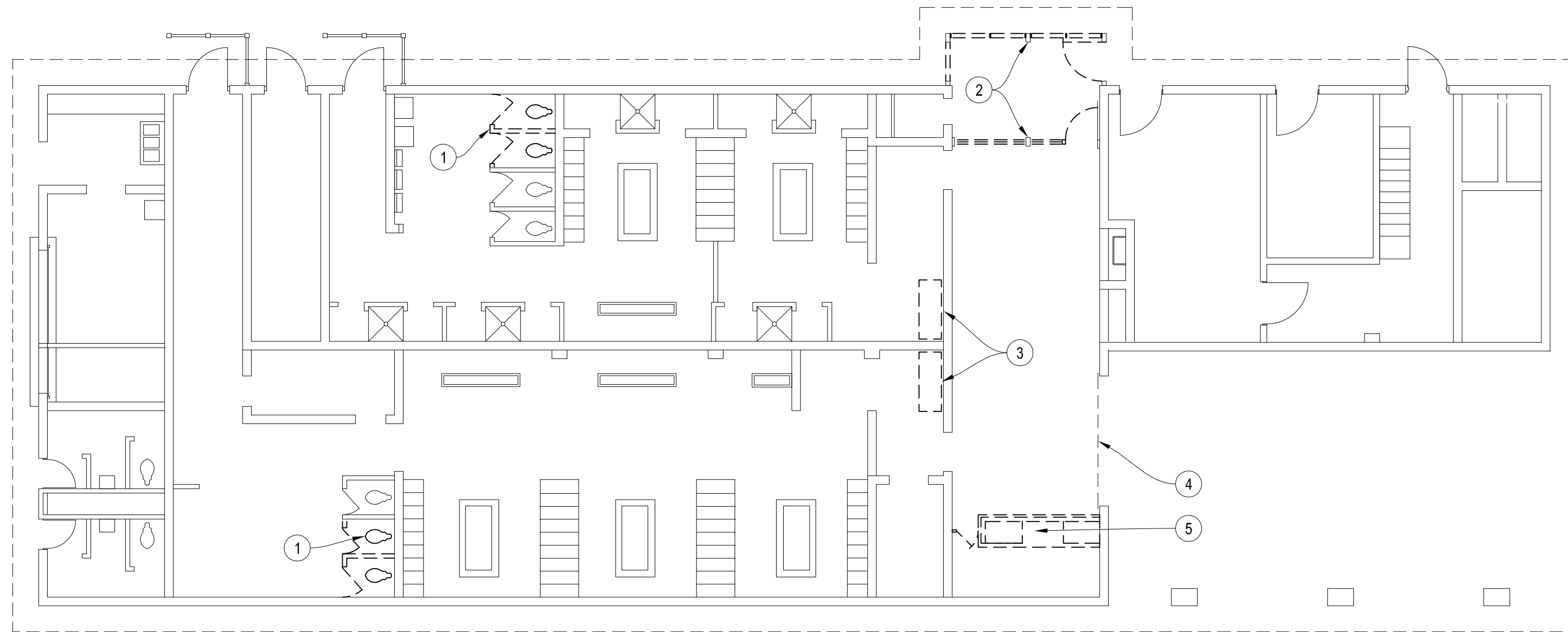
Issue: CONSTRUCTION DOCUMENTS

ARCHITECTURAL

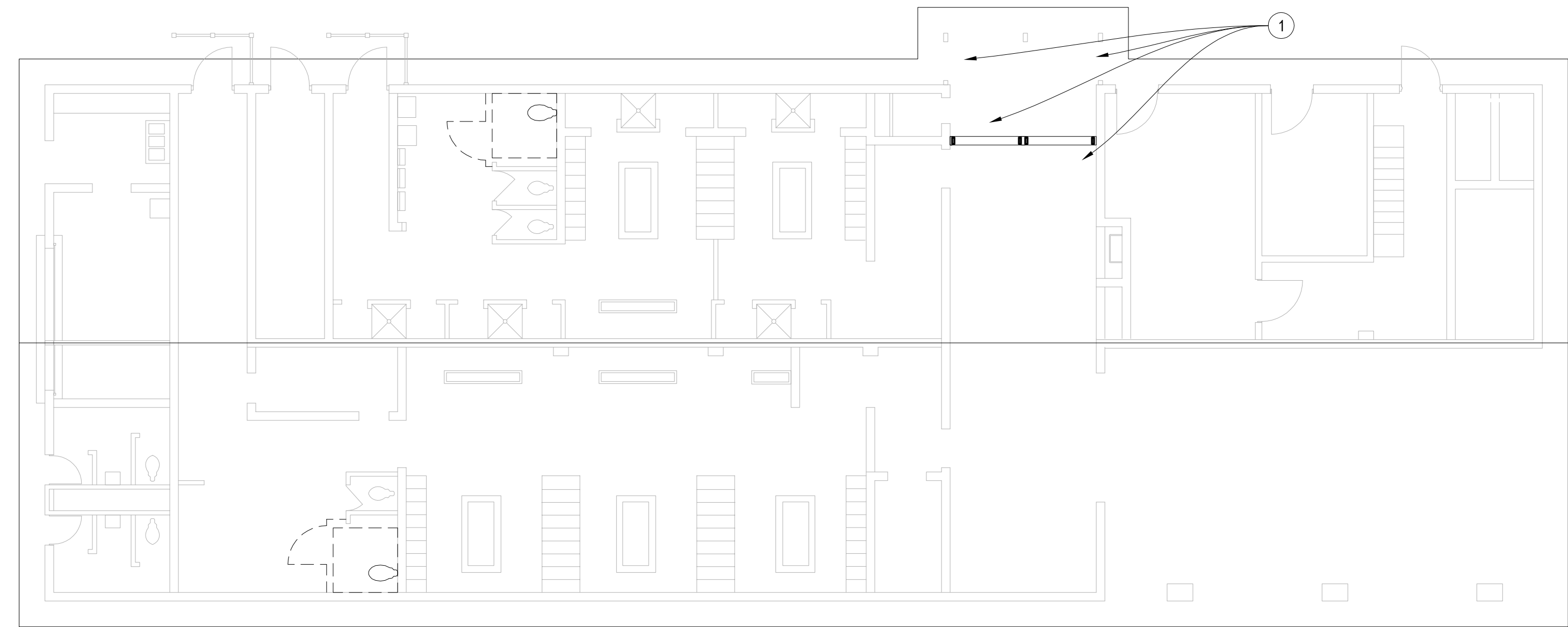
PLAN

A-1

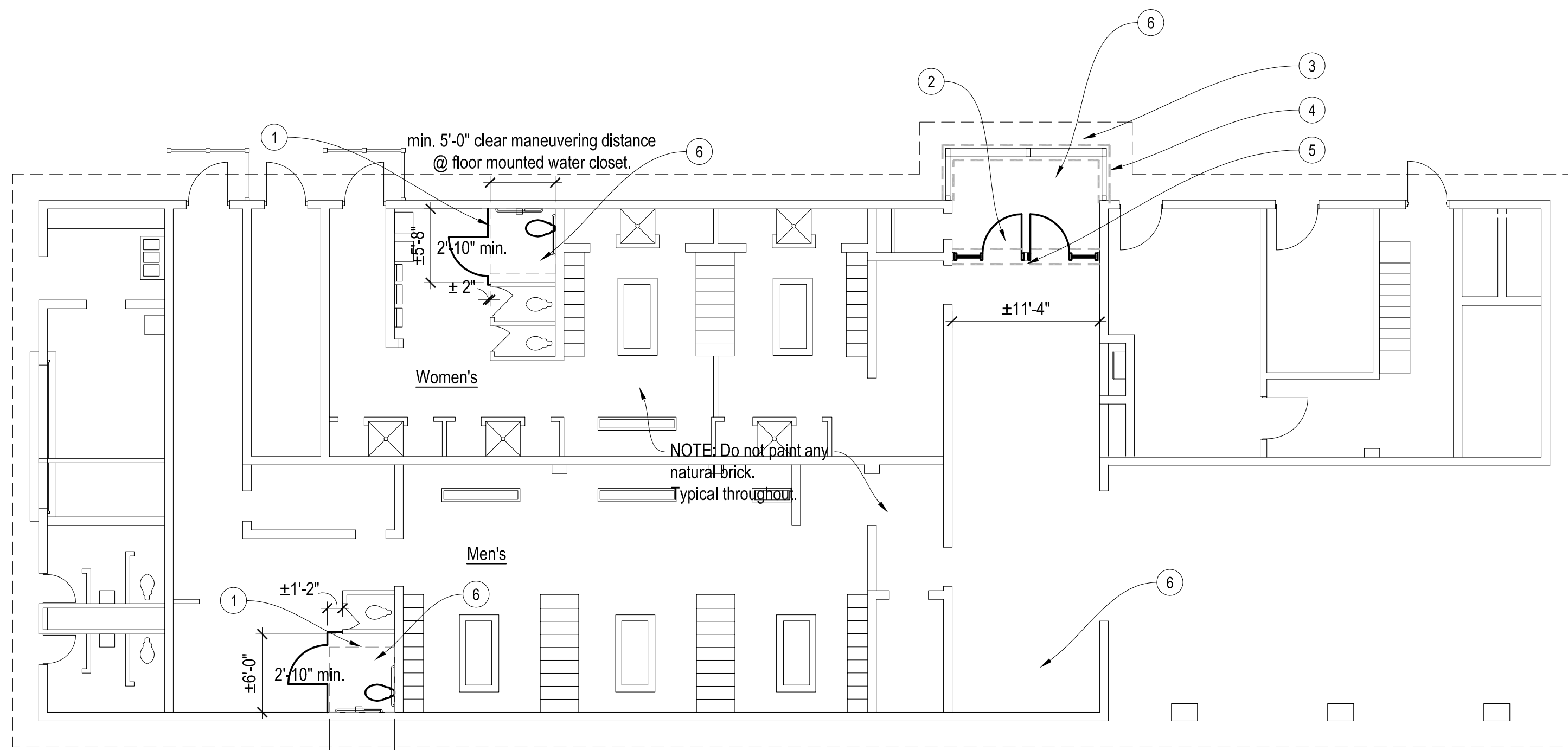
Water's Edge Aquatic Design
© 2020



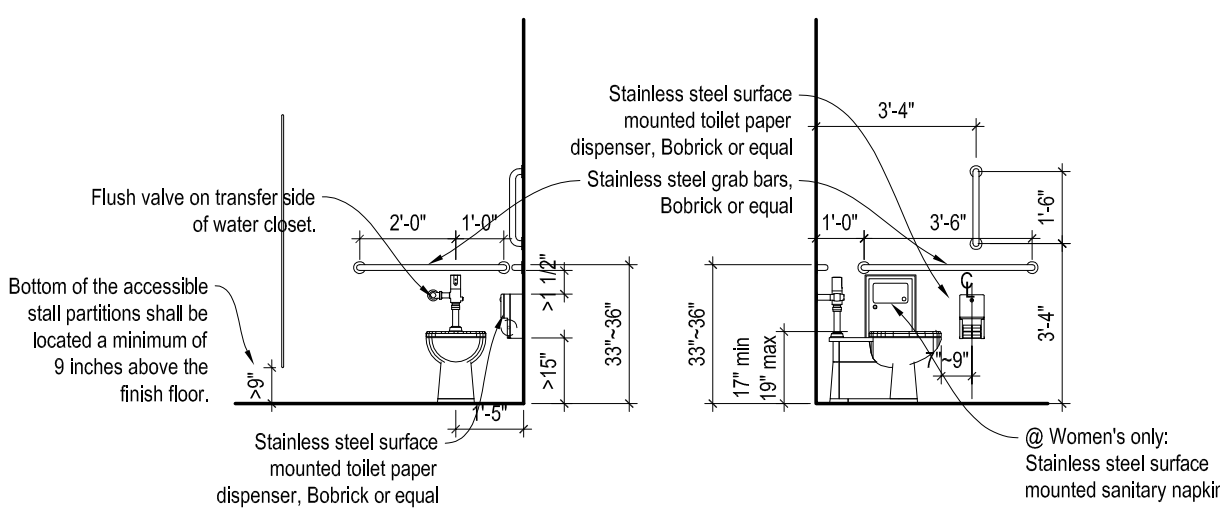
A DEMOLITION PLAN
Scale: 1/8"=1'-0"



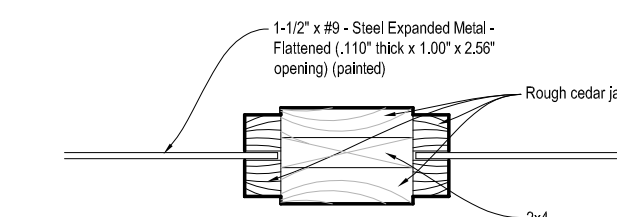
B REFLECTED CEILING PLAN
Scale: 1/8"=1'-0"



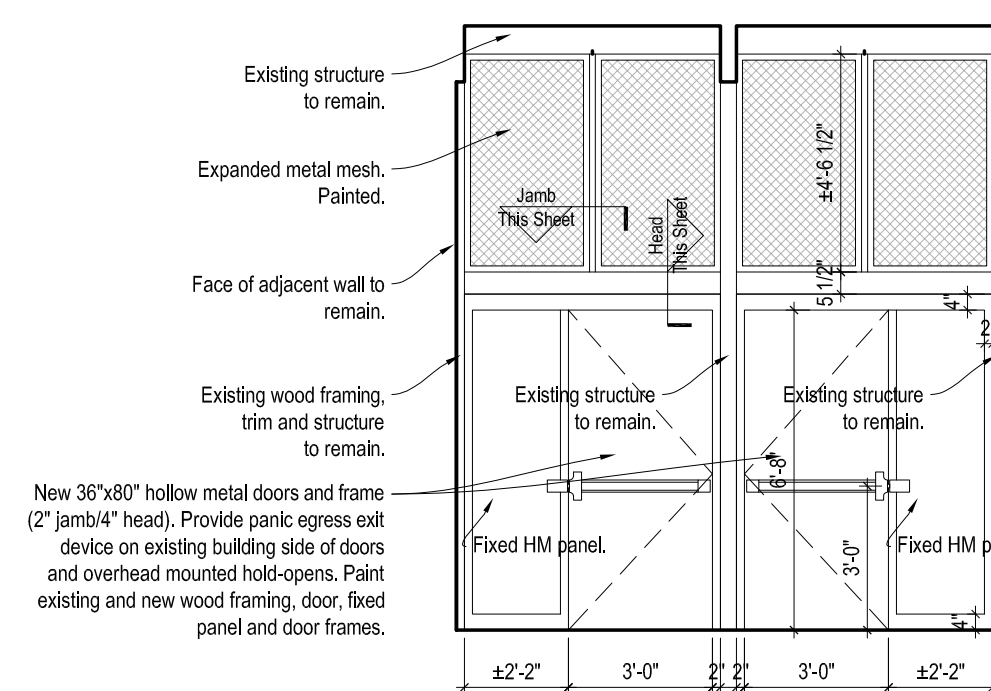
C FLOOR PLAN
Scale: 1/8"=1'-0"



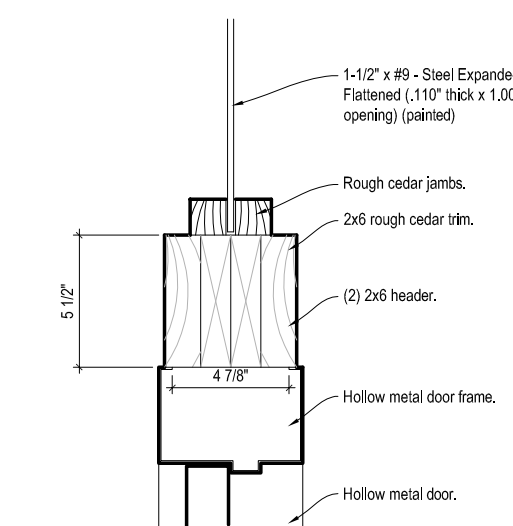
D ACCESSIBLE TOILET ACCESSORIES
Scale: 1/4" = 1'-0"



E HEAD DETAIL
Scale: 1 1/2" = 1'-0"



F NEW DOOR AND WALL ELEVATION
Scale: 1/4" = 1'-0"



G HEAD DETAIL
Scale: 1 1/2" = 1'-0"

DEMO PLAN KEYNOTES

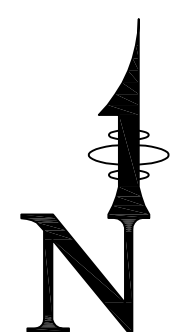
1. Remove 2 water closets, door and masonry toilet stall partitions as required for new ADA accessible water closet.
2. Remove only door and door frames, window and window frames. NOTE: Surrounding wood structural columns, beams and roof structure to remain.
3. Remove lockers and base.
4. Existing overhead door to remain.
5. Remove reception desk.

REFLECTED CEILING KEYNOTES

1. Patch and repair interior natural finished wood roof/ceiling deck planks and painted structural wood beams at modified interior walls.

FLOOR PLAN KEYNOTES

1. Provide an ADA accessible toilet stall including but not limited to new partitions, door, grab bars, toilet accessories and wall mounted water closet. Patch and repair openings and cut edges of existing masonry. Grind smooth any/all offsets or irregularities in floor slab. Provide ADA accessible toilet accessories as noted in elevation D this sheet.
2. Reconstruct wall with new doors and transoms.
3. Patch and repair openings in wood structure. Grind smooth any/all offsets or irregularities in floor slab.
4. Dashed line indicates extent of wall painting required in this scope of work. Natural wood ceiling to remain.
5. Dashed line indicates extent of wall, door, screen and existing structural column and wood jamb painting required in this scope of work. Natural wood ceiling to remain.
6. Patch and repair openings and cut edges of existing CMU and/or conc. floor. Grind smooth any/all offsets or irregularities in floor slab or CMU. Field grind 1/2" radius @ all newly exposed/outside corners of newly exposed CMU. Typical



SYMBOLS

PIPING	
	DIRECTION OF FLOW
	UNION
	FLANGE CONNECTION
	CAP
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	PIPE REDUCER
	PIPE GUIDE
	PIPE ANCHOR
	EXPANSION JOINT
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE WITH PRESSURE PORTS
	TRIPLE DUTY VALVE
	STRAINER
	STRAINER WITH BLOWOFF
	RELIEF/SAFETY VALVE
	MANUAL AIR VENT
	SOLENOID VALVE
	THREE-WAY CONTROL VALVE
	TWO-WAY CONTROL VALVE
	PRESSURE REDUCING VALVE
	THERMOMETER
	BACKFLOW PREVENTER
	AIR OUTLET
	OXYGEN OUTLET
	VACUUM OUTLET
	NITROGEN OUTLET
	NITROUS OXIDE OUTLET
	FLOOR SINK
	FLOOR DRAIN
	ROOF DRAIN
	HOSE BIBB
	FLOOR/GRADE CLEANOUT
	WALL CLEANOUT
	END OF LINE CLEANOUT

PLUMBING	
	WASTE LINE-ABOVE GRADE
	GREASE WASTE LINE-ABOVE GRADE
	WASTE LINE-BELOW GRADE
	VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC TEMPERED HOT WATER
	DOMESTIC HOT WATER RECIRC.
	140 DEGREE DOMESTIC HOT WATER
	VENT THROUGH ROOF NOTE

FIRE PROTECTION	
	SPRINKLER HEAT (PENDANT)
	SPRINKLER HEAD (SIDEWALL)
	SPRINKLER HEAD (UPRIGHT)
	FIRE PROTECTION PIPING
	SIAMESE CONNECTION

DUCTWORK	
	EQUIPMENT TYPE AND NUMBER
	PUMP
	LINEAR SLOT DIFFUSER
	FLEXIBLE DUCT
	NEGATIVE PRESSURE AIR DUCT UP
	NEGATIVE PRESSURE AIR DUCT DOWN
	POSITIVE PRESSURE AIR DUCT UP
	POSITIVE PRESSURE AIR DUCT DOWN
	DUCT RISE OR DROP IN THE DIRECTION OF AIRFLOW
	SQUARE TO ROUND TRANSITION
	ROUND DUCT UP, DOWN
	ELBOW WITH TURNING VANES
	FLEXIBLE CONNECTION
	MANUAL BALANCE DAMPER
	MOTORIZED CONTROL DAMPER
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	SPIN-IN BRANCH DUCT CONNECTOR WITH DAMPER IF SHOWN
	HIGH EFFICIENCY BRANCH DUCT CONNECTOR WITH DAMPER IF SHOWN
	SUPPLY AIR DIFFUSER
	DUCT MOUNTED GRILLE/WALL GRILLE
	RETURN GRILLE
	NOISE REDUCING RETURN AIR TRANSFER
	SUPPLY DIFFUSER - THREE-WAY THRU
	DIFFUSER, GRILLE, OR REGISTER TYPE
	CFM
	CONNECTION SIZE

TEMPERATURE CONTROLS	
	TEMPERATURE SENSOR/THERMOSTAT
	SERVING AIRTEL
	HUMIDITY SENSOR/HUMIDISTAT
	REMOTE TEMPERATURE SENSOR
	REMOTE HUMIDITY SENSOR
	CARBON DIOXIDE SENSOR
	OCCUPANCY SENSOR
	CARBON MONOXIDE SENSOR
	STATIC PRESSURE SENSOR
	DIFFERENTIAL PRESSURE TRANSMITTER
	FLOW METER

LIGHTING	
	LIGHT TRACK WITH LIGHT TYPES AS INDICATED
	WALL WASHER LIGHTING FIXTURE, ARROW INDICATES DIRECTION
	FLUORESCENT FIXTURE AND TYPE
	EMERGENCY LIGHT FIXTURE
	NIGHT LIGHT FIXTURE
	LIGHT FIXTURE AND TYPE
	WALL MOUNTED FIXTURE
	WALL SCONCE
	WALL MOUNTED FIXTURE
	POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
	TENON MOUNTED POLE LIGHT
	IN-GROUND LIGHT FIXTURE
	BOLLARD LIGHT FIXTURE
	EXIT LIGHT CLG. MNTD. (SGL. FACE)
	EXIT LIGHT CLG. MNTD. (DBL. FACE)
	EXIT/WALL MNTD. (SGL. FACE)
	EXIT/EMERGENCY LIGHT
	EMERGENCY LIGHT
	CEILING FAN
	LIGHT POLE WITH 1000 WATT FLOODS AND 250 WATT SECURITY FLOODS (QUANTITY TO MATCH PLANS AND SCHEDULE)

POWER EQUIPMENT	
	ELECTRICAL DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL
	PANEL BOARD
	LOAD CENTER
	METER
	J-BOX
	MOTOR
	VARIABLE FREQUENCY DRIVE WITH DISCONNECT
	DISCONNECT SWITCH
	COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
	MAGNETIC MOTOR STARTER OR DECK RECEPTACLE AS NOTED ON PLANS
	VARIABLE FREQUENCY DRIVE
	BELL
	HOME RUN
	SHARED CIRCUIT
	CONCEALED CONDUIT
	CONDUIT BELOW SLAB
	LOW VOLTAGE CABLE
	ONE HOT, ONE NEUTRAL, AND ONE GROUND IN CONCEALED CONDUIT (#12 in 1/2" c. UNO.)
#14's (wire number indicated) symbol"/>	#14'S (WIRE NUMBER INDICATED)
#16's (wire number indicated) symbol"/>	#16'S (WIRE NUMBER INDICATED)
	EXPOSED CONDUIT
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	BARE COPPER BONDING LOOP

WIRING DEVICES & OUTLETS	
	SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER
	WEATHERPROOF DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER
	QUAD RECEPTACLE
	HEAVY DUTY RECEPTACLE-NEMA TYPE AS NOTED
	FLOOR MOUNTED DEVICE
	CEILING MOUNTED DEVICE
	ISOLATED GROUND DUPLEX RECEPTACLE
	ISOLATED GROUND QUAD RECEPTACLE
	WALL MOUNTED PHONE
	CENTER OF DEVICE AT 48" A.F.F.
	DATA OUTLET
	TELEPHONE/DATA OUTLET
	CABLE T.V. OUTLET
	CABLE TRAY
	SURFACE RACEWAY
	SWITCH, SPST UNO.
	SWITCH, DPST
	FUSESTAT
	3-WAY SWITCH
	4-WAY SWITCH
	DIMMER SWITCH
	JAMB SWITCH
	MOTOR RATED SWITCH
	SWITCH WITH WEATHERPROOF COVER
	KEYED SWITCH
	TIME SWITCH
	PUSH BUTTON
	PHOTOCELL SWITCH
	MOTION SENSOR
	OCCUPANCY SENSOR & TAG
	POWER PACK

FIRE ALARM	
	FIRE ALARM CONTROL PANEL
	ANNUNCIATOR PANEL
	FIRE ALARM POWER EXTENDER
	PULL STATION
	KNOX BOX
	CONTROL RELAY
	SIGNAL ZONE ADDRESSABLE MODULE
	CONTROL ZONE ADDRESSABLE MODULE
	MONITOR ZONE ADDRESSABLE MODULE
	SINGLE STATION SMOKE DETECTOR
	SMOKE DETECTOR (SUP. RELAY BASE)
	SYSTEM SMOKE DETECTOR
	BEAM DETECTOR
	HEAT/THERMAL DETECTOR
	DUCT SMOKE DETECTOR
	INDIVIDUAL ADDRESSABLE MONITOR
	MAGNETIC DOOR HOLD
	HORN/STROBE
	STROBE
	SPEAKER/STROBE
	SPEAKER
	HORN
	VALVE TAMPER SWITCH
	FLOW SWITCH
	END OF LINE RESISTOR
	POST INDICATING VALVE
	FIRE ALARM BELL
	FIREMAN'S PHONE JACK
	SECURITY GUARD FOR DEVICE SHOWN

COMMUNICATIONS	
	SPEAKER HORN-PROJECTION TYPE
	SPEAKER
	VOLUME CONTROL (TOP 48" AFF)
	MICROPHONE JACK (TOP 18" AFF)
	COMBINATION SPEAKER/CLOCK
	SYSTEM CLOCK
	ELAPSED TIME CLOCK
	INTERCOM
	POWER SUPPLY
	AMPLIFIER

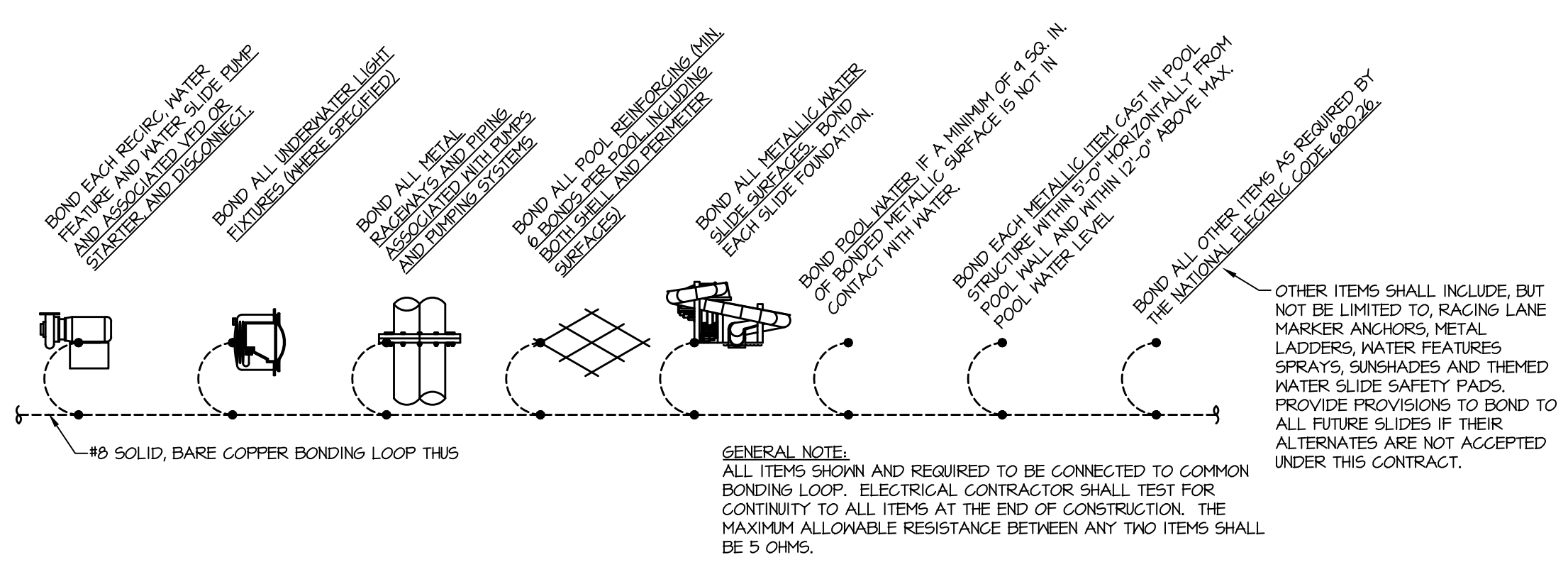
SECURITY	
	CLOSED CIRCUIT TELEVISION CAMERA
	ELECTRIC DOOR LOCK
	DOOR MONITOR
	CARD READER
	GLASS BREAK
	REQUEST TO EXIT BUTTON
	SECURITY MONITOR
	PANIC BUTTON (D=DESK, H=WALL, F=FLOOR)
	KEY PAD

ABBREVIATIONS

A/C	AIR CONDITIONING
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
APD	AIR PRESSURE DROP
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT
AW	ACID WASTE
AWG	AMERICAN WIRE GAUGE
BCU	BLOWER COIL UNIT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BFF	BELOW FINISHED FLOOR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTH	BRITISH THERMAL UNITS PER HOUR
C	CONDUIT
CT	CURRENT TRANSFORMER
CATV	CABLE TELEVISION SYSTEM
CAV	CONSTANT AIR VOLUME
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONDENSATE DRAIN
CFI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CO	CHILLER
CO2	CARBON DIOXIDE
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	COPPER
CUH	COPPER CONDENSING UNIT
CUH	COPPER UNIT HEATER
CWR	COLD WATER
CNS	CHILLED WATER RETURN
CNS	CHILLED WATER SUPPLY
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
E/C	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EJ	EXHAUST FAN
EJ	EXPANSION JOINT
ESFR	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWG	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FCD	FLOOR CLEANOUT
FCL	FAN COOL UNIT
FF	FIRE DAMPER FLOOR DRAIN
FF	FINISHED FLOOR
FFCO	FINISHED GRADE CLEANOUT
FL	FLOW LINE
FLA	FULL LOAD AMPS
F/C	FIRE PROTECTION CONTRACTOR
FU	FAN TERMINAL UNIT
FVNR	FULL VOLTAGE, NON-REVERSING
G	NATURAL GAS
G/C	GENERAL CONTRACTOR
GI	GROUND FAULT INTERRUPTER
GN	GROUND
GND	GROUND
GPM	GALLONS PER MINUTE
GN	GREASE WASTE
HB	HOSE BIBB
HCR	HOT/CHILLED WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HD	HEAD HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY, HIGH PRESSURE STEAM, HIGH PRESSURE SODIUM
HSTAT	HUMIDISTAT
HIG	HEATING
HNR	HOT WATER RETURN
HNS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN, INC	INCHES OF WATER COLUMN INCANDESCENT
ICM	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KN	KILOWATT
KNH	KILOWATT-HOUR
L	LAVATORY
LDB	LEAVING AIR TEMPERATURE
LF	LEAVING DRY BULB
LP	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPS	LIQUEFIED PETROLEUM GAS (PROPANE)
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCIM	1000 CIRCULAR MILS
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE/METAL HALIDE
MILO	MAIN LIFT ONLY
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MAU	MAKE-UP AIR UNIT
N	NITROGEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NFPH	NON-FREEZE WALL HYDRANT
NG	NOT IN CONTRACT
NO	NITROGEN OXIDE
NO	NORMALLY OPEN, NORMALLY CLOSED

O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OCFI	OWNER FURNISHED, CONTRACTOR INSTALLED OVERFLOW ROOF DRAIN
ORD	ORDER
PA	PIPE ANCHOR
PCNR	PRIMARY CHILLED WATER RETURN
PCNS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP (FEET OF WATER)
PH	PHASE
PHNR	PRIMARY HEATING WATER RETURN
PHNS	PRIMARY HEATING WATER SUPPLY
PNL	PANEL
PRV	PRESSURE REDUCING VALVE
PS	PULSE START
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
PSIG	POUNDS PER SQUARE INCH-GAUGE
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R	REFRIGERANT
RCR	REINFORCED CONCRETE PIPE
RDR	ROOF DRAIN
REV	REVISION
RF	RELATIVE HUMIDITY
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK
SA	SANITARY AIR
SAN	SANITARY SEWER
SCNR	SECONDARY CHILLED WATER RETURN
SCNS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, STORM DRAIN
SF	SUPPLY FAN
SHNR	SECONDARY HEATING WATER RETURN
SHNS	SECONDARY HEATING WATER SUPPLY
SPST	SINGLE-POLE SINGLE-THROW
SPST	STATIC PRESSURE
SQFT	SQUARE FOOT/SQUARE FEET
STAT	START/STOP
SS	SERVICE SINK, STAINLESS STEEL
ST	STORM DRAIN, SOUND TRAP, STEAM TRAP
STC	STEAM TRANSMISSION CLASS
ST	STEAM
STM	SOFT WATER
SW	SWITCHBOARD
SWBD	SWITCHBOARD
T	TEMPERED WATER
TG	TEMPERATURE GAUGE
TDH	TOTAL DYNAMIC HEAD
TG	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TR	TRIAL UNIT
TU	TERMINAL UNIT
TR	TEMPERED WATER RETURN
UF	UNDER FLOOR
UG	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VACUUM
VAC	VOLTS ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WATER SERVICE, MATTS
WB	WET BULB
WCO	WALL CLEANOUT
WC	WATER COLUMN, WATER CLOSET
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF

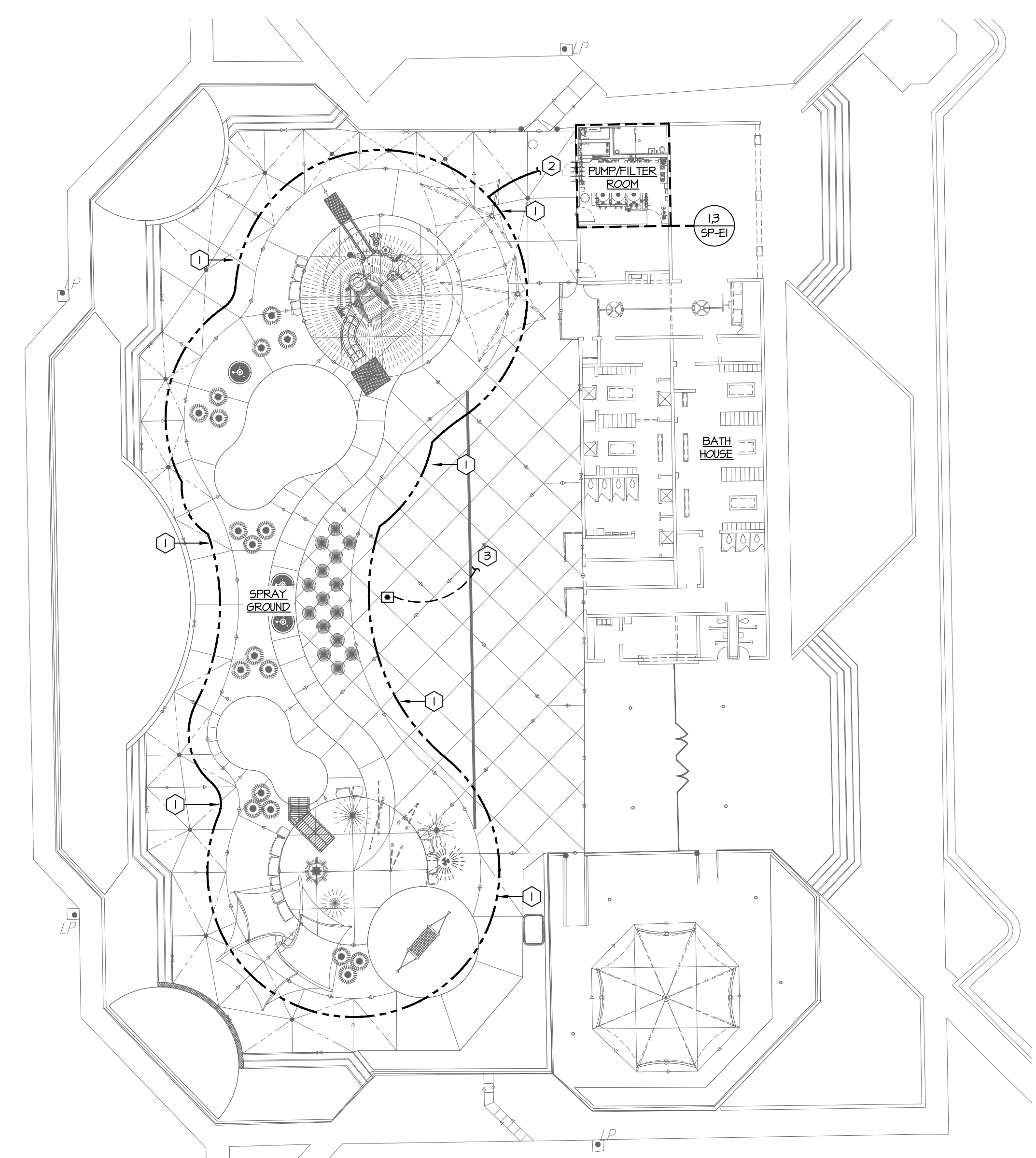
GENERAL	
	HEAVY LINEWEIGHT INDICATES NEW WORK
	CONNECT NEW TO EXISTING
	LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN
	DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED
	CONSTRUCTION NUMBER
	REVISION NUMBER
	SECTION CUT THROUGH DRAWING



2 Equipotential Bonding Schematic
Scale: None

GENERAL NOTE:
ALL ITEMS SHOWN AND REQUIRED TO BE CONNECTED TO COMMON BONDING LOOP. ELECTRICAL CONTRACTOR SHALL TEST FOR CONTINUITY TO ALL ITEMS AT THE END OF CONSTRUCTION. THE MAXIMUM ALLOWABLE RESISTANCE BETWEEN ANY TWO ITEMS SHALL BE 5 OHMS.

OTHER ITEMS SHALL INCLUDE, BUT NOT BE LIMITED TO, RAGING LANE MARKER ANCHORS, METAL LADDERS, WATER FEATURES, SPRAYS, SUNSHADES AND THEMED WATER SLIDE SAFETY PADS. PROVIDE PROVISIONS TO BOND TO ALL FUTURE SLIDES IF THEIR ALTERNATES ARE NOT ACCEPTED UNDER THIS CONTRACT.



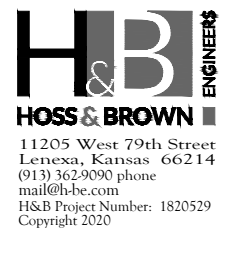
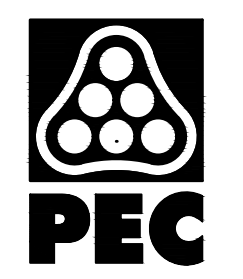
1 MEP Site Plan
Scale: 1" = 20'-0"

GENERAL NOTES:

- THE FOLLOWING NOTES SHALL APPLY TO ALL WORK SHOWN ON SHEETS SP-ME1, SP-ME2, SP-M1, SP-M2, SP-E1, SP-E2, AND SP-E3 AND SHALL SUPERSEDE REQUIREMENTS DEFINED IN SPECIFICATIONS.
- 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.
 - ALL POWER WIRES AND CABLES SHALL BE COPPER #12 AWG, UNLESS NOTED OTHERWISE. WIRE SHALL BE CODE TYPE THHN OR THHN.
 - JUNCTION, PULL, RECEPTACLE, AND LIGHT FIXTURE BOXES SHALL BE PVC.
 - ALL FLUSH MIRROR DEVICES SHALL BE PROVIDED WITH JUMBO PASG # 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".
 - 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.
 - 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.
 - 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.
 - 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.
 - ALL BELOW GRADE CONDUITS ON SITE SHALL BE ROUTED IN GRANULAR FILL OR LOWER, AND NOT WITHIN THE CONCRETE DECK.

ELECTRICAL PLAN NOTES:

- SOLID BARE COPPER SPRAY-GROUND 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 SPRAY-GROUND AND NO DEEPER THAN 12" BELOW THE FINISHED DECK ELEVATION. SEE DETAIL #2/SP-ME2 FOR FURTHER INFORMATION.
- EXTEND #8 BONDING WIRE INTO FILTER AREA OR PUMP PIT AND BOND TO PUMPS.
- 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.



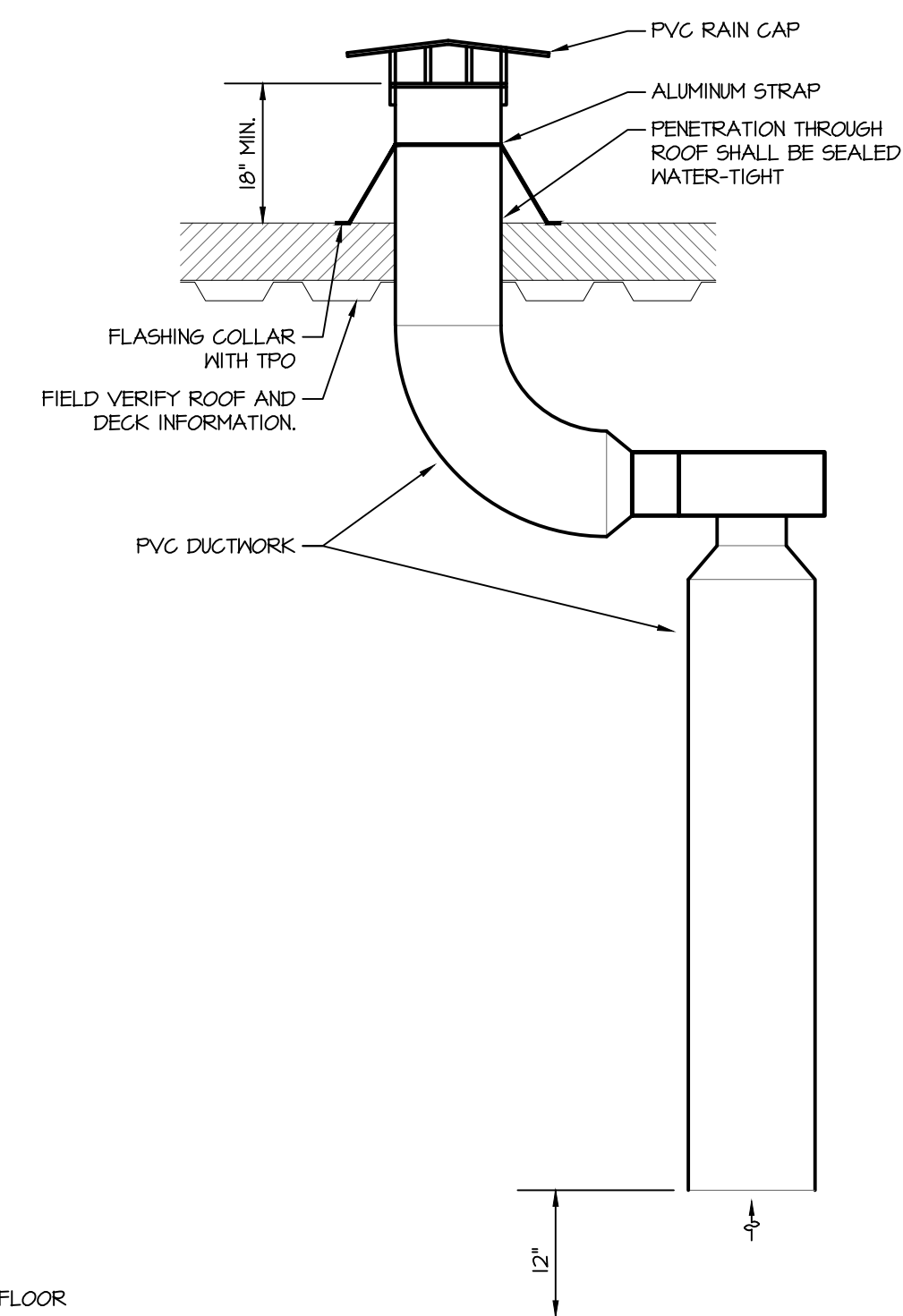
WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



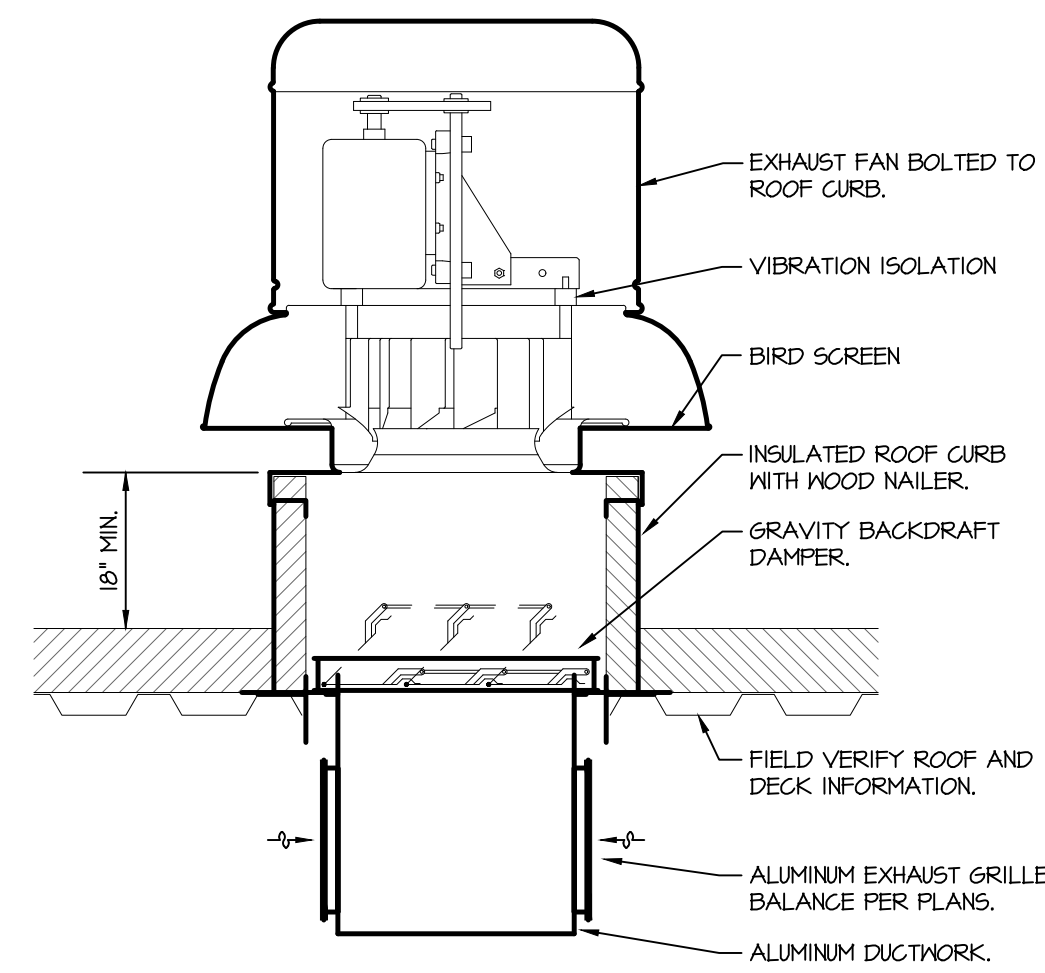
CASEY JOHN STEINER
LICENSE #19423
Date: 2-21-20 Job #: 1820529
Drawn: CDW/JEM Checked: MST
Issue: CONSTRUCTION DOCUMENTS

MEP SITE PLAN

SP-ME2

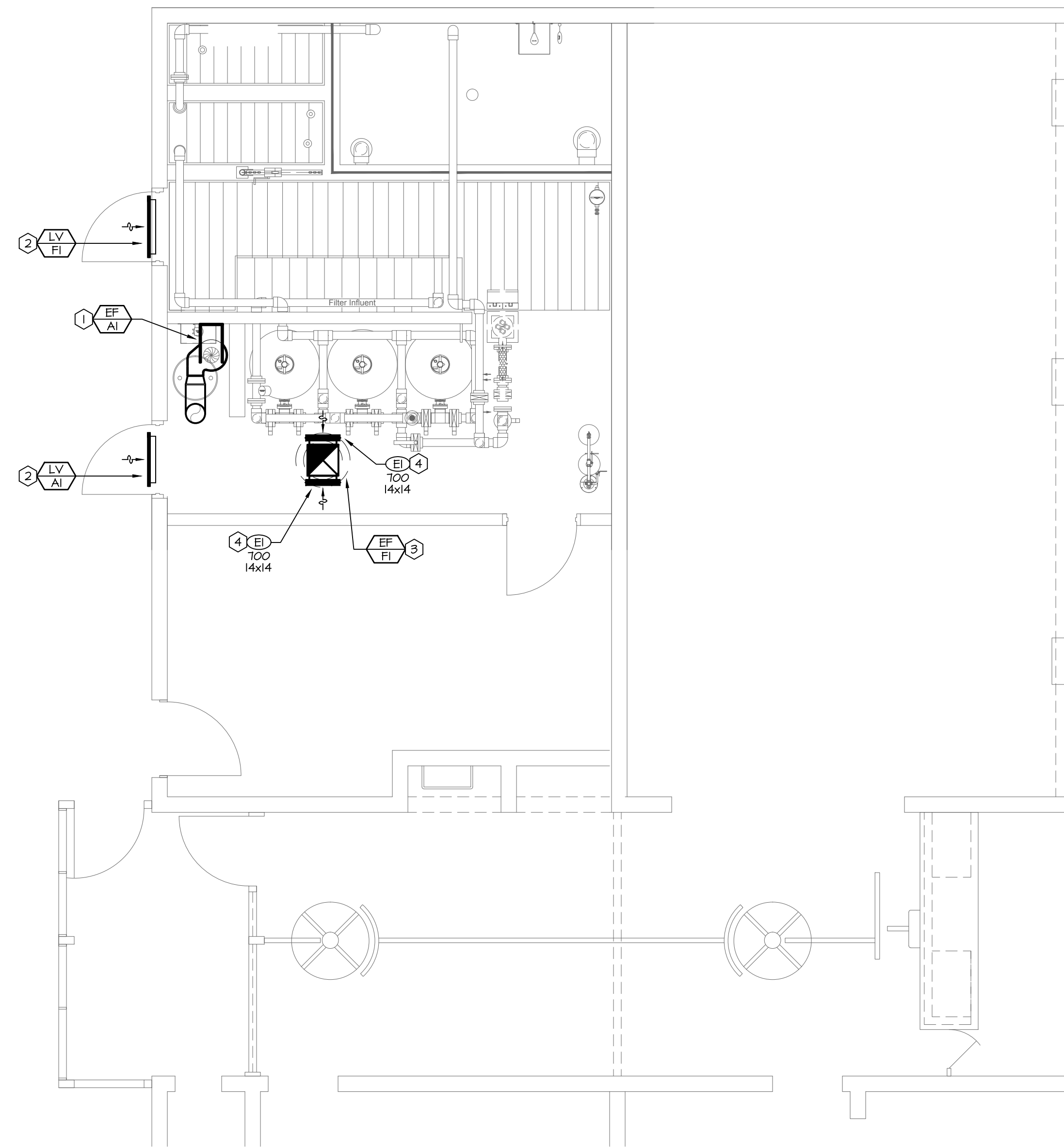


3 Chemical Exhaust Fan Detail
Scale: Not to Scale



- NOTES:**
1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
 2. PROVIDE ROOF CURB OF SUFFICIENT HEIGHT TO PROVIDE A MINIMUM 18" CLEARANCE FROM THE TOP OF THE CURB TO THE FINISHED ROOF.
 3. 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.
 4. 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"

GENERAL NOTES:

1. 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 RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
2. 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.
3. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
4. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.
7. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

PLAN NOTES:

1. PROVIDE CENTRIFUGAL FAN AS SCHEDULED MOUNTED HIGH IN CHEMICAL ROOM. PROVIDE 12" PVC PIPE DOWN TO APPROXIMATELY 12" AFF. DISCHARGE DUCTWORK SHALL HAVE FLEXIBLE CONNECTION. PROVIDE 10" PVC PIPE AND ROUTE UP TO ROOF. PROVIDE 10" PVC RAIN CAP. U.S. PLASTIC CORPORATION MODEL 435206 OR EQUAL.
2. PROVIDE DOOR LOUVER AS SCHEDULED. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOUVER LOCATION.
3. PROVIDE ROOF-MOUNTED FAN AS SCHEDULED. EXTEND ALUMINUM DUCTWORK DOWN APPROXIMATELY 2'-0" INTO THE SPACE.
4. PROVIDE ALUMINUM EXHAUST GRILLE AS SCHEDULED APPROXIMATELY 0'-2" ABOVE THE BOTTOM OF THE EXHAUST DUCT.

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	I35CITDEC	1,400	0.75	DIRECT	1325	302	3/4	120/1	2

- NOTES:**
1. FAN HOUSING AND WHEEL SHALL BE CONSTRUCTED OF POLYPROPYLENE.
 2. 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	-	12
LV-FI	ACTIVAR	1400 SERIES	INTAKE	28x28	1,400	2.8	-	1

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

- GENERAL NOTES:**
1. PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION.
 2. CUSTOM COLOR TO BE SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS.
 3. 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	EF	EXHAUST	AS NOTED	AS NOTED	YES	1

- NOTES:**
1. GRILLE AND ALL FASTENERS SHALL BE ALUMINUM.

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



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Casey John Steiner
License #19423

Date: 2-21-20 Job #: 1820529

Drawn: CDW Checked: MST

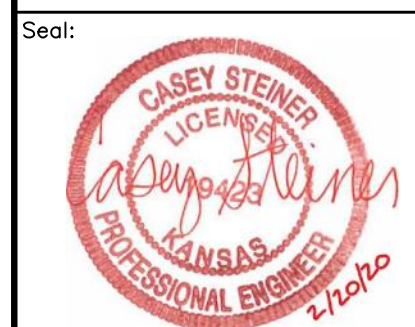
Issue: CONSTRUCTION DOCUMENTS

MECHANICAL PLAN,
DETAILS &
SCHEDULES

SP-M1



WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



Casey Steiner
LICENSE #19423

Date: 2-21-20 Job #: 1820529

Drawn: CDW Checked: MST

Issue: CONSTRUCTION DOCUMENTS

PLUMBING PLAN,
DETAILS &
SCHEDULES

SP-M2

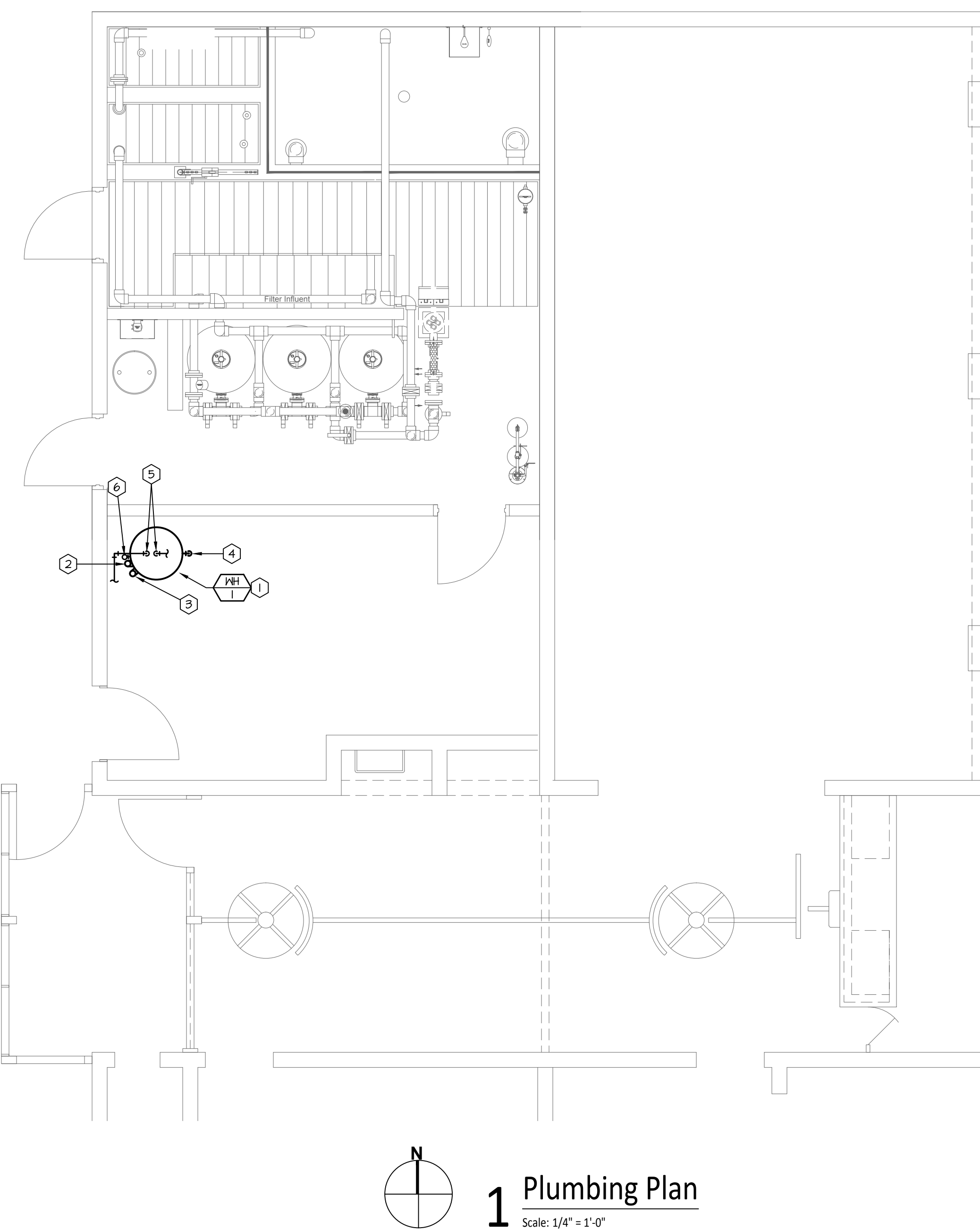
Water's Edge Aquatic Design
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GENERAL NOTES:

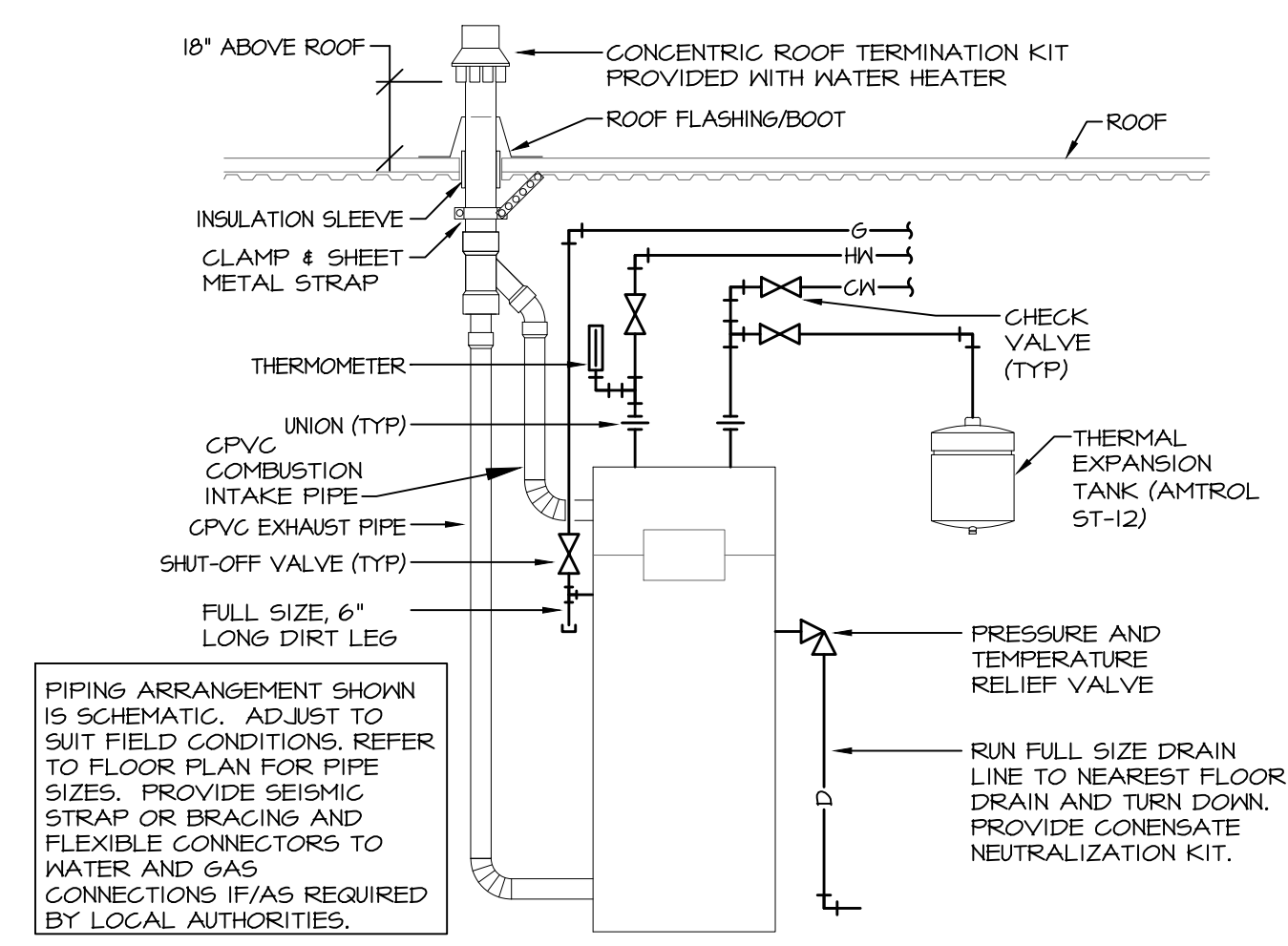
- A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY COMPONENTS AND OFFSETS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.
- B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
- C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
- D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS, PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.
- E. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
- F. COORDINATE THE SHUT DOWN OF ANY EXISTING SERVICES AND/OR EQUIPMENT WITH THE OWNER'S REPRESENTATIVE.
- G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF THE PARAPET.

PLAN NOTES:

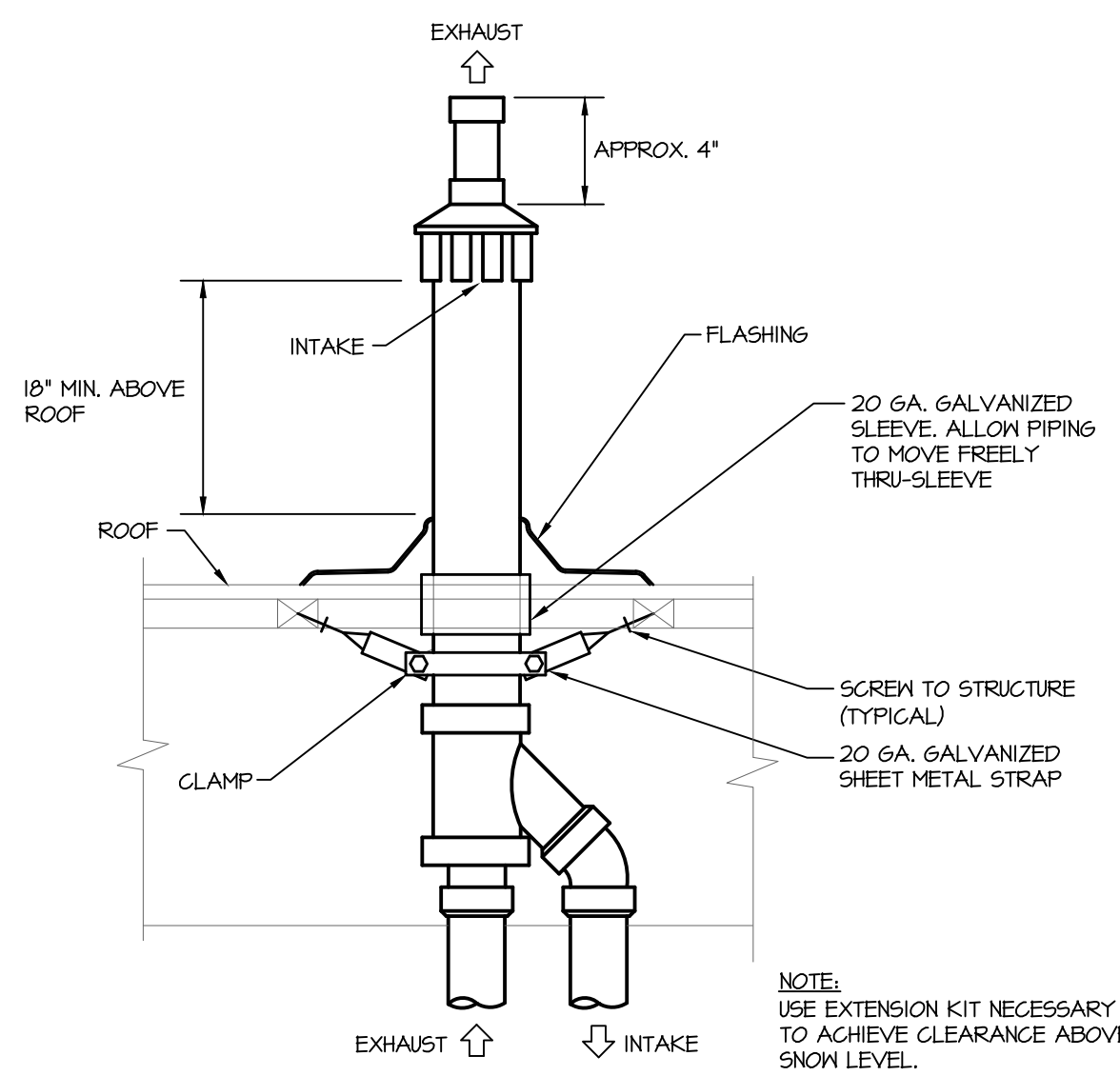
1. PROVIDE GAS WATER HEATER AS SCHEDULED. CONTRACTOR SHALL CONFIRM FINAL LOCATION WITH CITY AND POOL ENGINEER. VERIFY FINAL LOCATION WITH MEP ENGINEER.
2. PROVIDE 2" CPVC AIR INTAKE PIPE AND EXTEND UP TO CONCENTRIC VENT TERMINATION. NEW CONCENTRIC VENT TERMINATION SHALL UTILIZE EXISTING ROOF PENETRATION. PENETRATION SHALL BE SEALED TO BE WATER-TIGHT.
3. PROVIDE 2" CPVC VENT PIPE AND EXTEND UP TO CONCENTRIC VENT TERMINATION. NEW CONCENTRIC VENT TERMINATION SHALL UTILIZE EXISTING ROOF PENETRATION. PENETRATION SHALL BE SEALED TO BE WATER-TIGHT.
4. PROVIDE 1-1/2" COPPER DRAIN LINE TO NEAREST FLOOR DRAIN. PROVIDE INDIRECT CONNECTION.
5. PROVIDE 1-1/2" COLD AND HOT WATER PIPING BETWEEN EXISTING WATER LINES IN THE AREA AND NEW WATER HEATER.
6. PROVIDE 1/2" GAS PIPING BETWEEN EXISTING GAS PIPING IN THE AREA AND NEW WATER HEATER. CONTRACTOR SHALL VERIFY EXISTING NATURAL GAS CAPACITY ON-SITE.



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



2 Water Heater Detail
Scale: Not to Scale



3 Concentric Roof Termination Detail
Scale: Not to Scale

WATER HEATER SCHEDULE

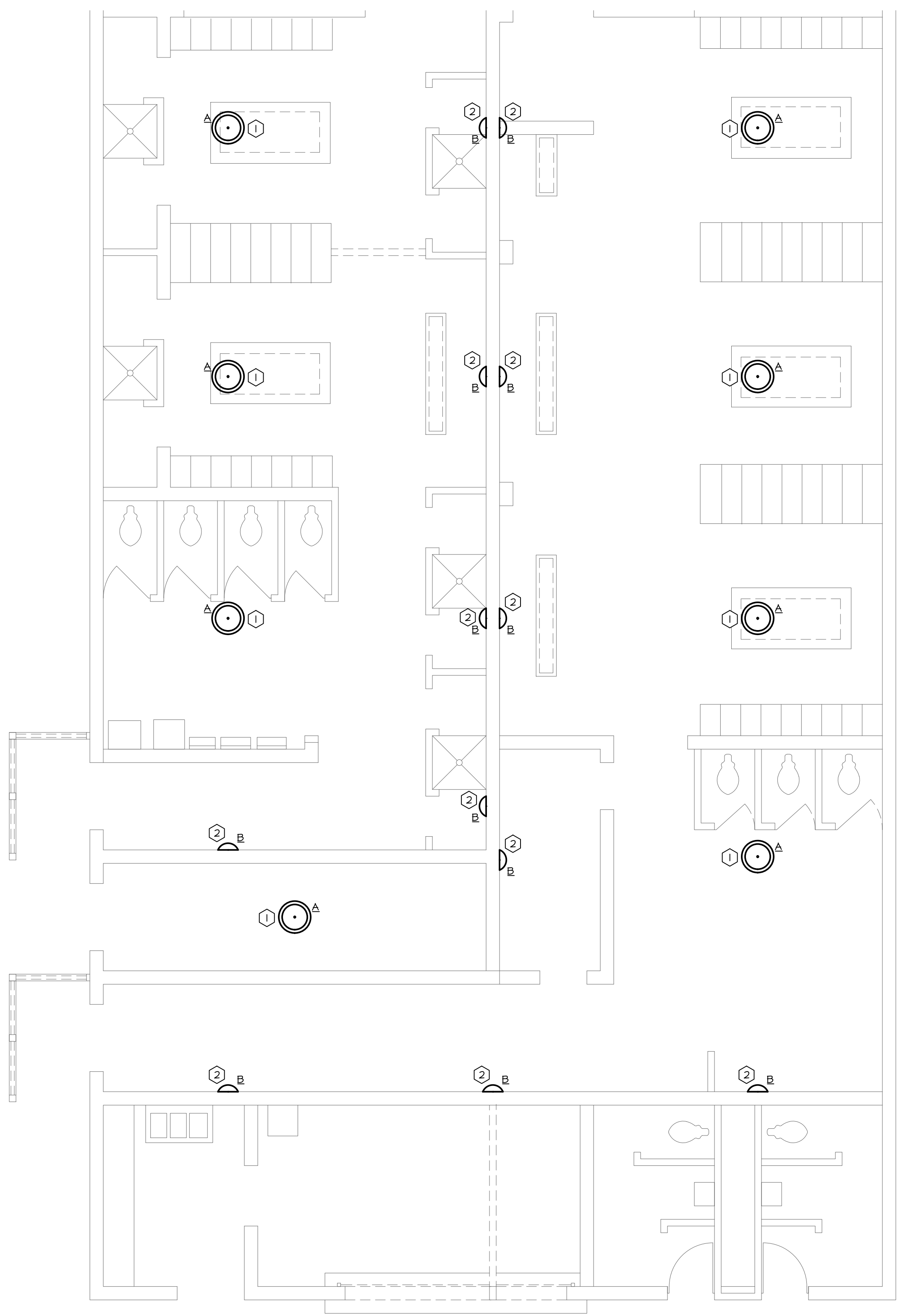
MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (MBH)	OUTPUT (MBH)	INPUT (KW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	A.O. SMITH	BTXL-100	75	100.0	46.0	---	124.0	120/1	1,2,3,4

NOTES (APPLIES TO ALL ABOVE):

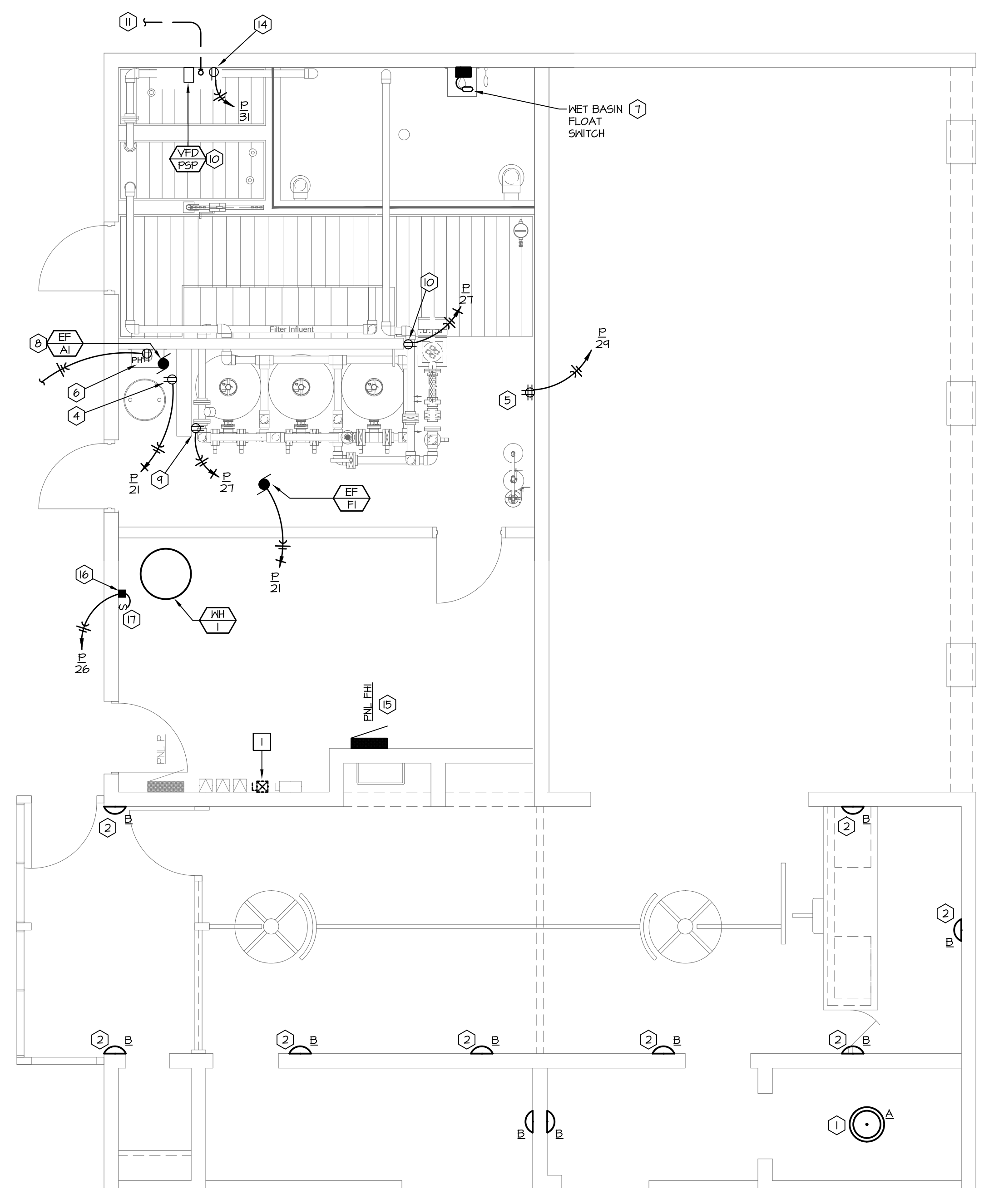
1. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
2. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.
3. PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT.
4. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT.

GENERAL NOTES:

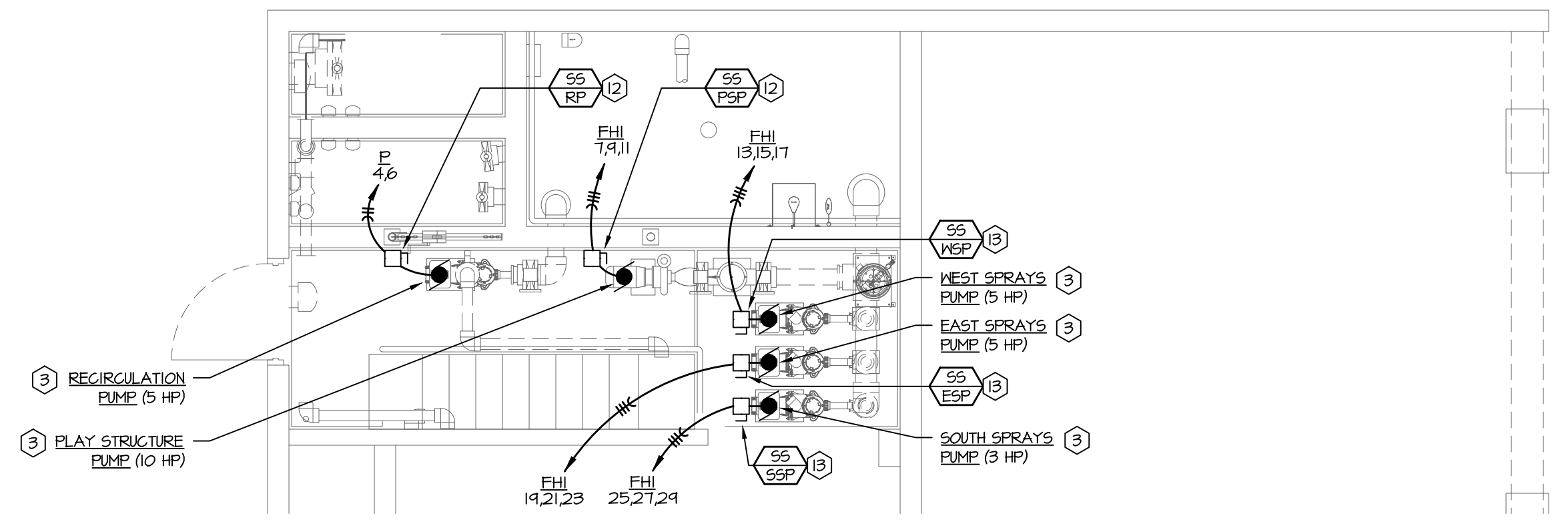
- A. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.



2 South Above Grade Electrical Plan
Scale: 1/4" = 1'-0"



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



3 North Below Grade Electrical Plan
Scale: 1/4" = 1'-0"

GENERAL NOTES:

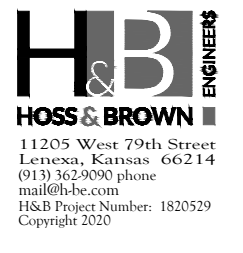
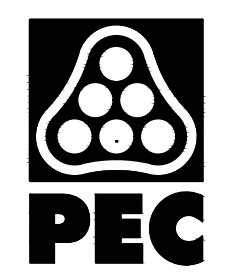
- A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
- B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE NEC, 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 PULL 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 WIREWAY FOR INSTALLATION OF NEW PUMP FEEDERS.

PLAN NOTES:

1. PROVIDE NEW PENDANT MOUNT FIXTURE AS SCHEDULED. FIXTURE SHALL REPLACE EXISTING LIGHT FIXTURE. EXISTING HOME RUN CIRCUIT AND SWITCHING SHALL REMAIN.
2. PROVIDE NEW SCONCE FIXTURE AS SCHEDULED. FIXTURE SHALL REPLACE EXISTING LIGHT FIXTURE. EXISTING HOME RUN CIRCUIT AND SWITCHING SHALL REMAIN. THE INTEGRAL FIXTURE PROTOCOL SHALL BE BYPASS WHEN CIRCUITING.
3. ROUTE ALL FEEDERS BELOW GRADE BETWEEN VFD AND PUMP MOTOR. REFER TO VFD SCHEDULE FOR PUMP POWER INFORMATION.
4. EXHAUST FAN RECEPTACLE. COORDINATE EXACT HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. CHEMICAL CONTROLLER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHEMICAL CONTROLLER.
6. 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.
7. PROVIDE ZOELLER SWITCH-MATE PIGGYBACK VARIABLE LEVEL FLOAT SWITCH (VLS). 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.
8. PROVIDE 6'-0" NEMA PLUG AND COORDINATE FOR EXHAUST FAN.
9. PROVIDE 120V OUTLET FOR FLOW METER.
10. PROVIDE 120V OUTLET FOR UV EQUIPMENT.
11. 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.
12. 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.
13. PROVIDE PUMP SAFETY SWITCH APPROXIMATELY 24" ABOVE PUMP MOUNTED TO UNISTRUT. COORDINATE INSTALLATION WITH POOL CONTRACTOR.
14. PROVIDE 120V OUTLET FOR VORTEX SMARTFLOW CONTROLLER.
15. PANEL - PROVIDE PANEL AS SCHEDULED ON SHEET SP-E3.
16. PROVIDE JUNCTION BOX FOR WATER HEATER POWER. COORDINATE WATER HEATER INSTALLATION WITH PLUMBING CONTRACTOR.
17. PROVIDE SPDT DISCONNECT SWITCH FOR 120V/1PH WATER HEATER. COORDINATE WATER HEATER INSTALLATION WITH PLUMBING CONTRACTOR.



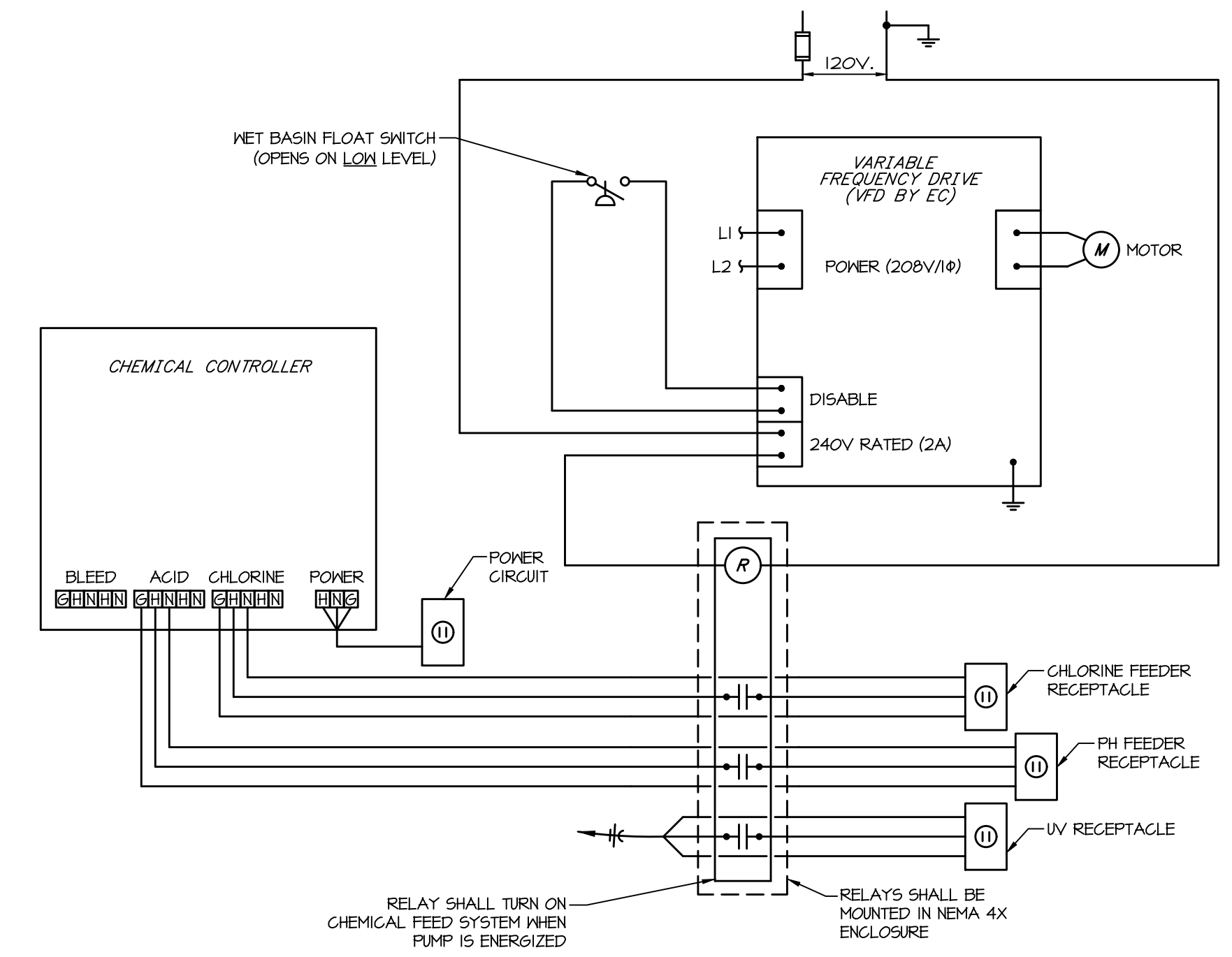
WICHITA, KANSAS
Spray Ground
EDGEMOOR PARK



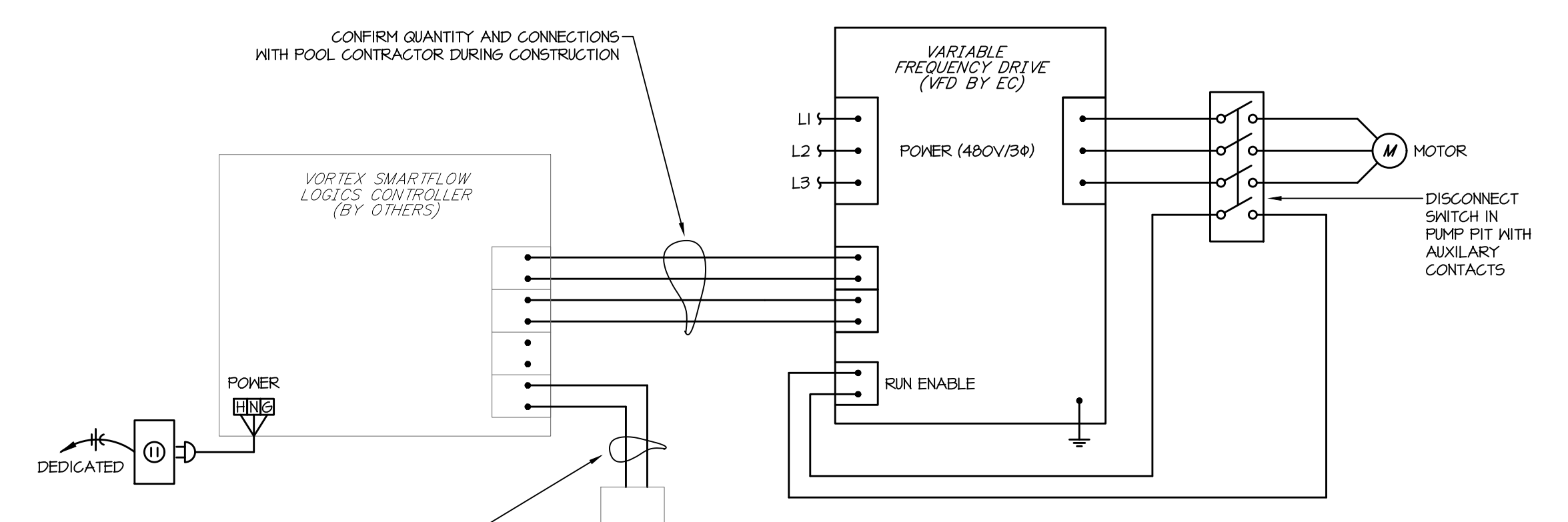
CASEY JOHN STEINER
LICENSE #19423
Date: 2-21-20 Job #: 1820529
Drawn: CDW Checked: MST
Issue: CONSTRUCTION DOCUMENTS

ELECTRICAL
PLANS

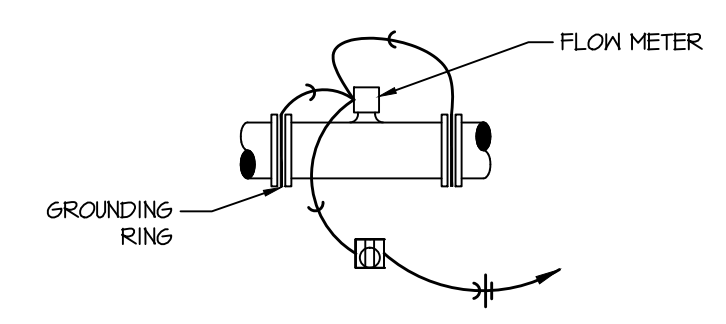
SP-E1



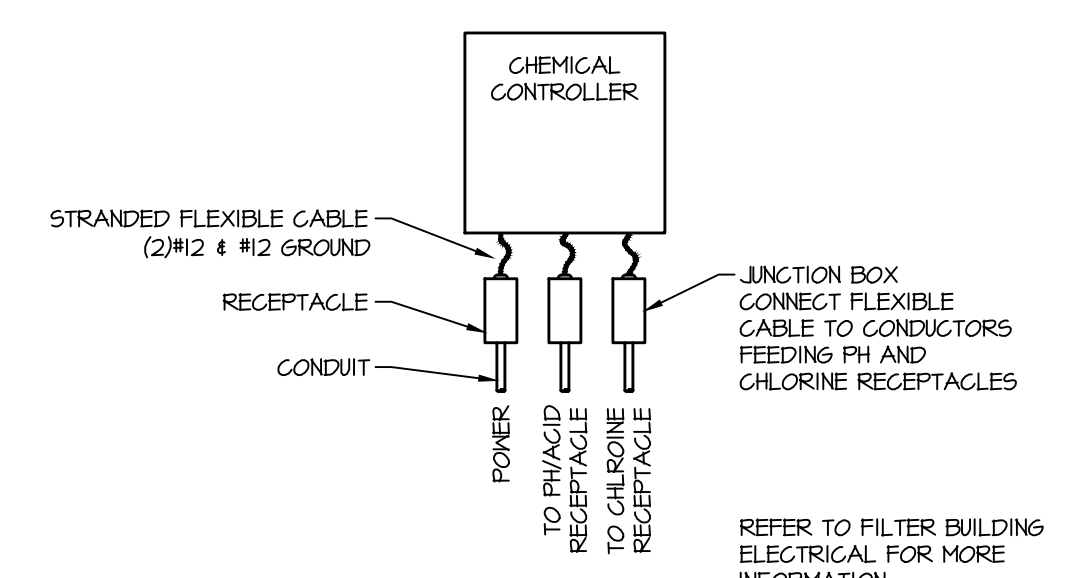
1 Recirculation Pump Control Schematic (VFD-RP)
Scale: None



2 VFD Control Schematic (VFD-PSP/WSP/ESP/SSP)
Scale: None



3 Flow Meter Grounding Detail
Scale: None



4 Chemical Controller Schematic
Scale: None

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
EDGEMOOR PARK



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ELECTRICAL
DETAILS

SP-E2
Water's Edge Aquatic Design
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LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	LAMP DATA			VOLTS	MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
			LUMENS	TYPE	COLOR (K)					
A	LITHONIA	VCP6-V4-P3-35K-UPL2-80CRI-T5M-MVOLT-FM-DYNHXD	6015	LED	3500K/80CRI	UNV	PENDANT	43	WHITE CANOPY FIXTURE	1,2
B	COOPER	FK-LED-1212-2500-35-UNV-CP-R4-EDDI-L6M	2500	LED	3500K/80CRI	UNV	WALL	21	WHITE WALL-MOUNT FIXTURE	1

NOTES:

- FIXTURE SHALL BE NET LISTED.
- MOUNT FIXTURE FROM 6" - 3/4" NPT PENDANT STEM. UTILIZE EXISTING MOUNTING HARDWARE.

GENERAL NOTES (APPLIES TO ALL ABOVE):

- ALL LIGHT FIXTURES SCHEDULED AND SHOWN ON THE PLANS WITH AN "EM" TAG SUFFIX SHALL HAVE AN INTEGRAL EMERGENCY DRIVER.
- CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.

VARIABLE FREQUENCY DRIVE SCHEDULE

MARK	DESCRIPTION	VOLTAGE	HP	LOAD	OCPD AMPS	POLES	NEMA ENCL.	CONDUCTORS	NOTES
VFD-RP	RECIRCULATION PUMP	208/1	5	6,120	60	2	4X	(2) #8 & #10G. IN 3/4" C.	-
VFD-PSP	PLAY STRUCTURE PUMP	480/3	10	11,640	35	3	4X	(3) #8 & #10G. IN 3/4" C.	-
VFD-WSP	WEST SPRAYS PUMP	480/3	5	6,320	20	3	4X	(3) #12 & #12G. IN 3/4" C.	-
VFD-ESP	EAST SPRAYS PUMP	480/3	5	6,320	20	3	4X	(3) #12 & #12G. IN 3/4" C.	-
VFD-SSP	SOUTH SPRAYS PUMP	480/3	3	3,990	20	3	4X	(3) #12 & #12G. IN 3/4" C.	-

GENERAL NOTES (APPLIES TO ALL ABOVE):

- 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.
- OCPD AMPACITIES ARE LISTED FOR FUSES/CIRCUIT BREAKER.
- VFD SHALL HAVE INTEGRAL FUSED DISCONNECT.

SAFETY SWITCH SCHEDULE

SAFETY SWITCH TAG	DESCRIPTION	VOLTS	HP	DISC. AMPS	FUSE AMPS	NEMA TYPE	POLE/WIRES	CONDUCTORS	NOTES
SS-RP	RECIRCULATION PUMP	240	5	60	-	3R	2/2	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-PSP	PLAY STRUCTURE PUMP	600	10	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-WSP	WEST SPRAYS PUMP	600	5	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-ESP	EAST SPRAYS PUMP	600	5	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1
SS-SSP	SOUTH SPRAYS PUMP	600	3	30	-	3R	3/3	SEE VARIABLE FREQUENCY DRIVE SCHEDULE	1

GENERAL NOTES (APPLIES TO ALL ABOVE):

- SAFETY SWITCHES SHALL BE HEAVY DUTY.

NOTES:

- PROVIDE DISCONNECT WITH AUXILIARY CONTACTS FOR INTERCONNECTION WITH VFD.

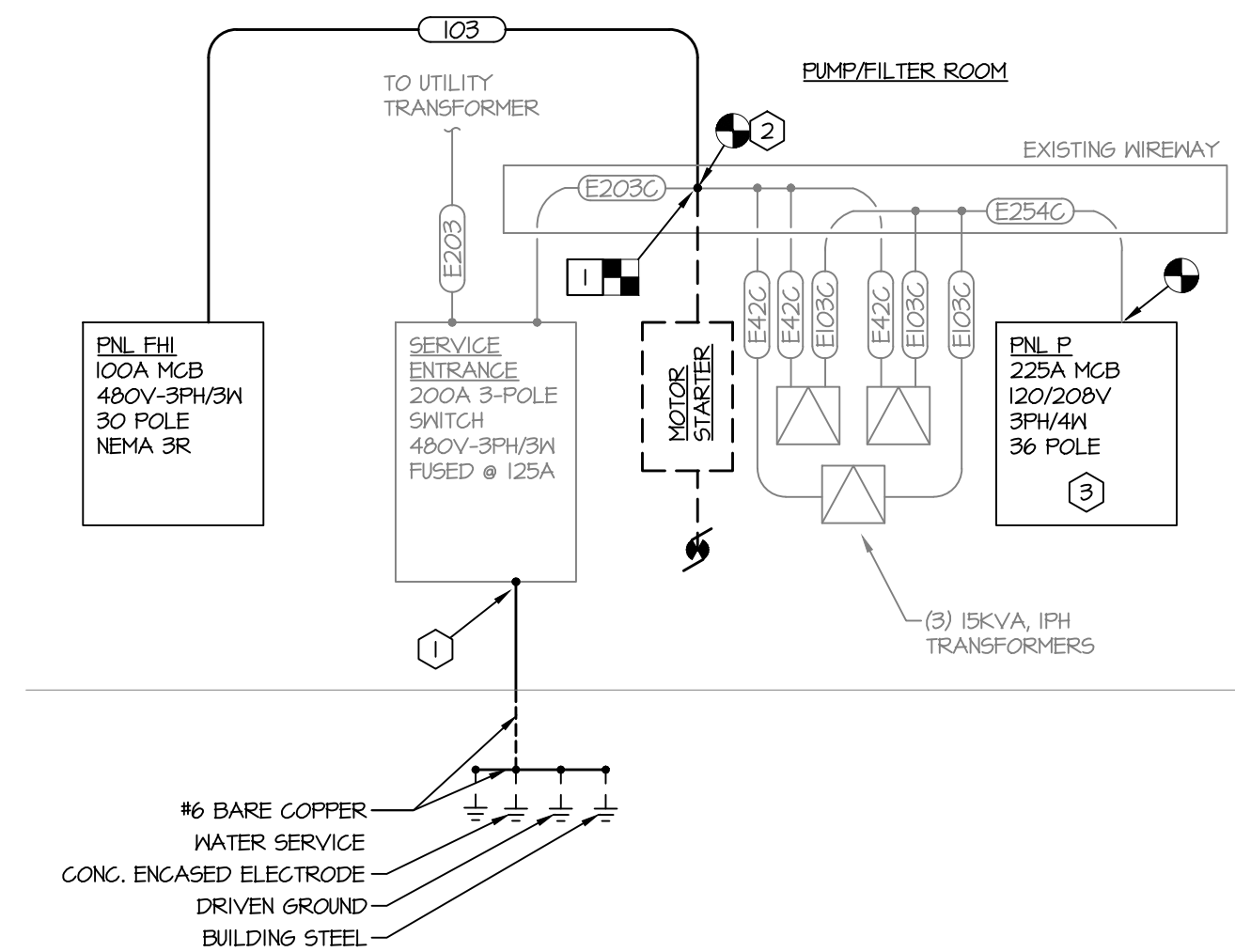
PANEL FH1

DESCRIPTION: 100A MCB		100% Neutral Bus w/ Feed Through Lugs		VOLTAGE: 277/480V, 3PH, 4 WIRE		TOTAL CONNECTED LOAD, DEMANDED LOAD CONTINUOUS: 23kW+ 28A 28kW+ 31A	
NO	LOAD (W)	LOAD DESCRIPTION	AMP SIZE	AMP SIZE	LOAD DESCRIPTION	LOAD (W)	NO
1	0	SPACE	-	A	-	SPACE	2
3	0	SPACE	-	B	-	SPACE	4
5	0	SPACE	-	C	-	SPACE	6
7	3050	PUMP - PLAY STRUCTURE (1.5 HP)	3	25	A	-	8
4	3050			B	-	SPACE	10
11	3050			C	-	SPACE	12
13	1330	PUMP - WEST SPRAYS (3 HP)	3	20	A	-	14
15	1330			B	-	SPACE	16
17	1330			C	-	SPACE	18
14	2107	PUMP - EAST SPRAYS (5 HP)	3	20	A	-	20
21	2107			B	-	SPACE	22
23	2107			C	-	SPACE	24
25	1330	PUMP - SOUTH SPRAYS (3 HP)	3	20	A	-	26
27	1330			B	-	SPACE	28
24	1330			C	-	SPACE	30

PANEL P (EXISTING)

DESCRIPTION: 225A MLO		100% Neutral Bus w/ Feed Through Lugs		VOLTAGE: 120/208V, 3PH, 4 WIRE		TOTAL CONNECTED LOAD, DEMANDED LOAD CONTINUOUS: 82kW+ 146A 81kW+ 168A				
NO	LOAD (W)	LOAD DESCRIPTION	AMP SIZE	AMP SIZE	LOAD DESCRIPTION	LOAD (W)	NO			
1	2496	CHLORINE	2	40	A	20	FRONT PORCH LTS	1500	2	
3	2496	ROOM	-	B	-	60	2	PUMP - RECIRCULATION (5HP)	3360	4
5	1500	FRONT ENTR. HALL LT	20	C	-	-	-	3360	6	
7	1500	MENS RM LTS	20	A	20	1	1	PUMP RM LTS	1500	8
4	1500	LADIES RM LTS	20	B	20	1	1	PUMP RM RCPTS	1080	10
11	2100	PUMP CONTROL CIRC	25	C	20	2	2	SPARE (PREV. UN LTS)	0	12
13	1500	MENS RR'S END	20	A	20	2	2	POLE POOL LIGHTS	1500	14
15	1500	CONCESSION LT	20	B	20	1	1	1500	16	
17	1500	PUBLIC RR LTS	20	C	-	-	-	1500	18	
14	1500	NORTH POST LT	20	A	20	1	1	WEST POST LT	1500	18
21	1000	EXHAUST FANS	20	B	20	1	1	SPARE (PREV. UN LTS)	0	20
23	1500	EAST CENTER POST	20	C	-	-	-	1500	22	
25	1500	W CENTER POST LT	20	A	20	1	1	RCPT CASHIER	360	24
27	360	RCPT - FLOW METER / UV	1	20	B	15	2	WATER HEATER WH-1	180	26
24	180	RCPT - CHEM CONTROLLER	20	C	-	-	-	100	30	
31	180	RCPT - VORTEX CONTROL	20	A	20	1	1	CASHIER	1000	32
33	1500	MENS HAIR DRYER	20	B	60	2	2	VENDING MACH	3100	34
35	1500	MENS HAIR DRYER	20	C	-	-	-	3100	36	

* PROVIDE NEW GFI BREAKER AS INDICATED.



1 Electrical Riser Diagram
Scale: None

4 RISER DEMO WORK NOTES:

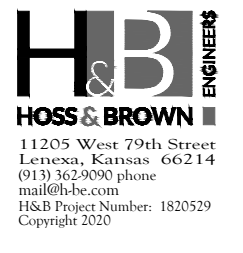
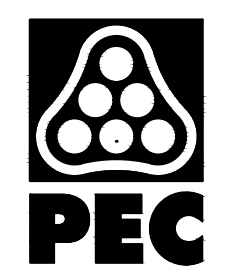
- MOTOR, STARTER, & FEEDER - DISCONNECT MOTOR, MOTOR STARTER, AND FEEDERS ASSOCIATED WITH EXISTING PUMP. PREPARE WIRING FOR INSTALLATION OF NEW PUMP PANEL FH1.

1 RISER NEW WORK NOTES:

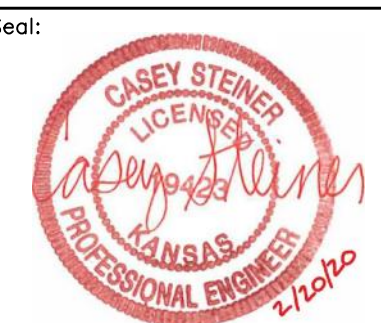
- GROUNDING - VERIFY SERVICE ENTRANCE EQUIPMENT IS GROUND PER THE GROUNDING ELECTRODE SYSTEM REQUIREMENTS SET FORTH IN NEC 250.50.
- PANEL FH1 - PROVIDE NEW PANEL AND FEEDER AS SHOWN.
- PANEL P - CONTRACTOR SHALL PROVIDE NEW 225A MCB, 120/208V, 10KAIC, 36 POLE REPLACEMENT NEMA 1 PANELBOARD. THE CONTRACTOR SHALL SALVAGE THE PANEL BOX AND RE-USE IF IN ACCEPTABLE CONDITION. EXISTING FEEDERS SHALL BE RE-USED.

FEEDER SCHEDULE:

- E2030 (3)#1/0 IN 2" CONDUIT
- E2030 (3)#1/0
- E1420 (2)#8
- E1030 (3)#3
- E2540 (4)#250
- C103 (3)#2 & #8 GROUND IN 1-1/4" CONDUIT



WICHITA, KANSAS
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ELECTRICAL
DETAILS AND
RISER DIAGRAM

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