

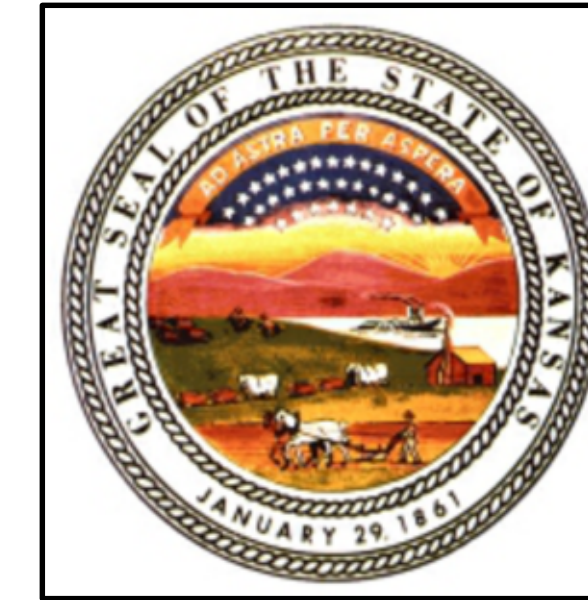


WICHITA, KANSAS

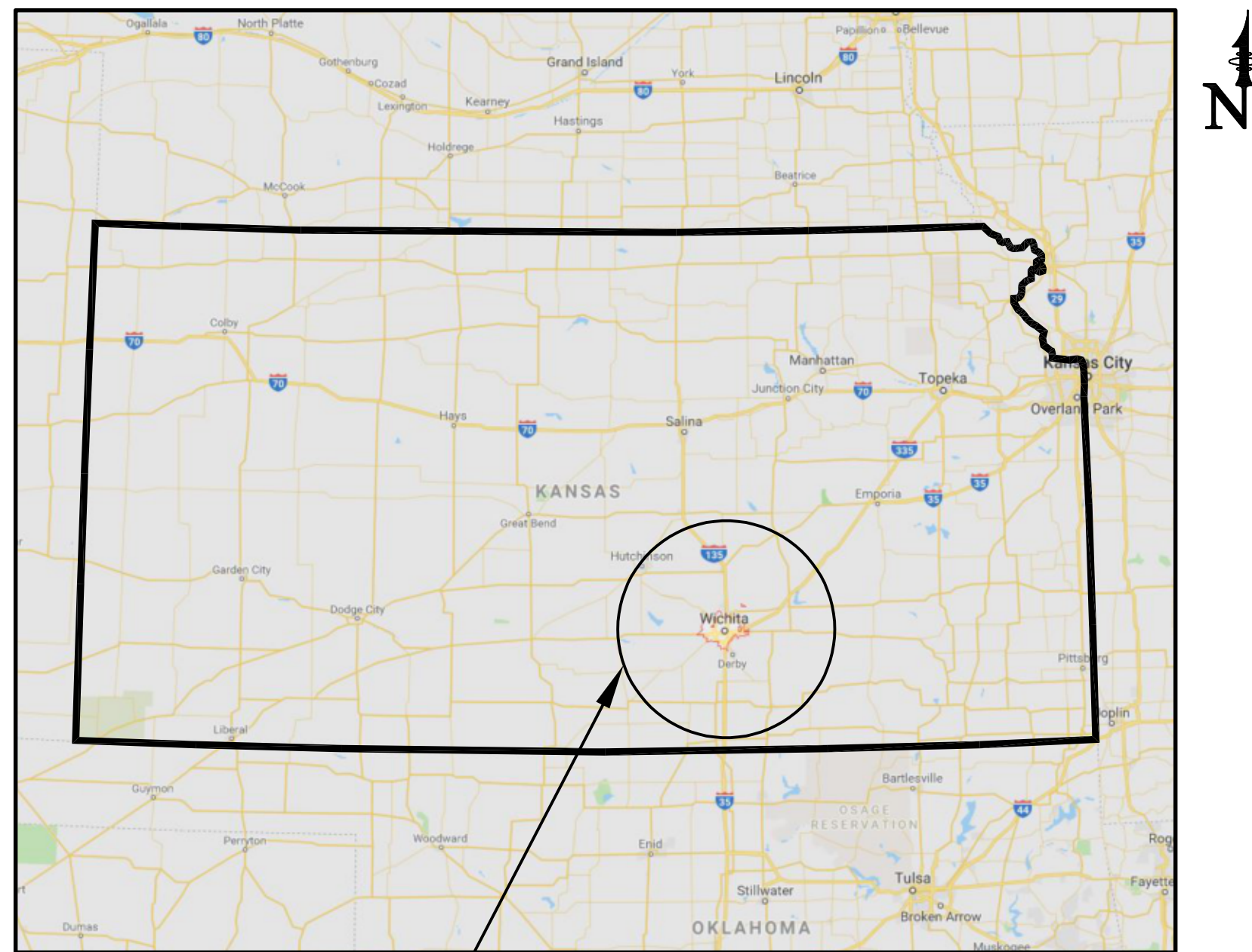
Pool Improvements

COLLEGE HILL PARK

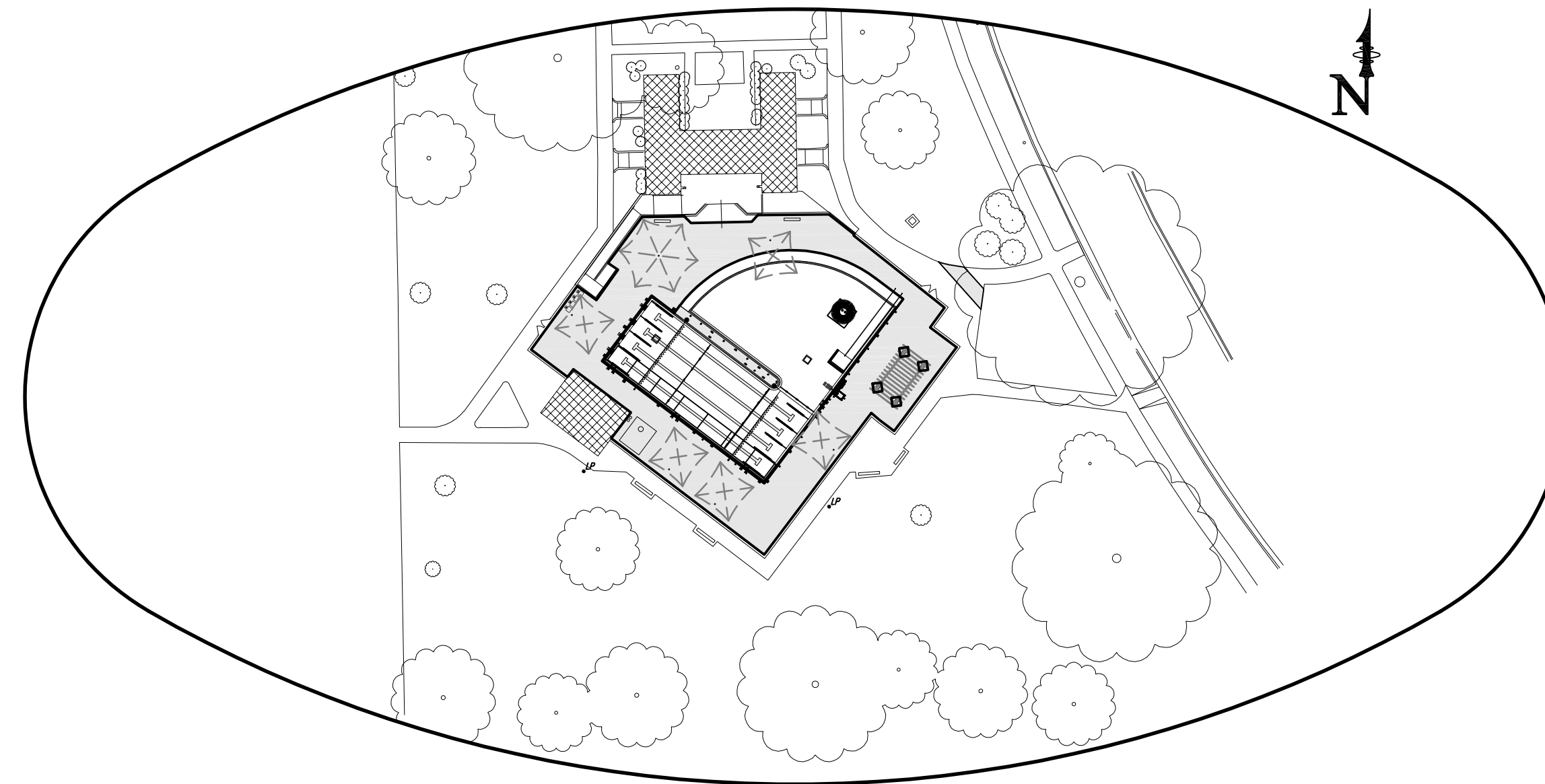
2021



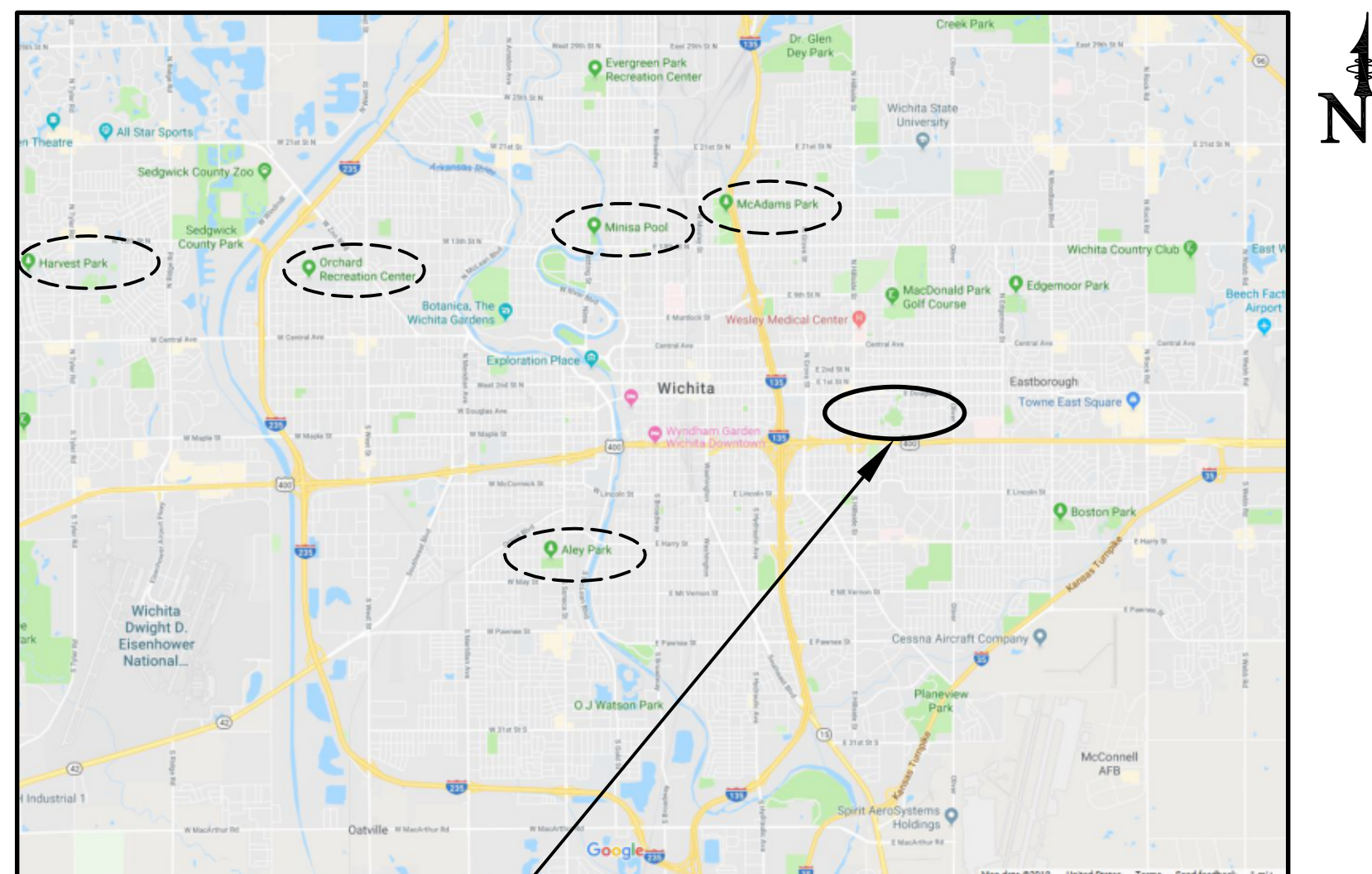
CITY OF WICHITA
 Project Number 482-11046
 Org. Code 44002018
 Munis Number R8020



PROJECT AREA



POOL LAYOUT



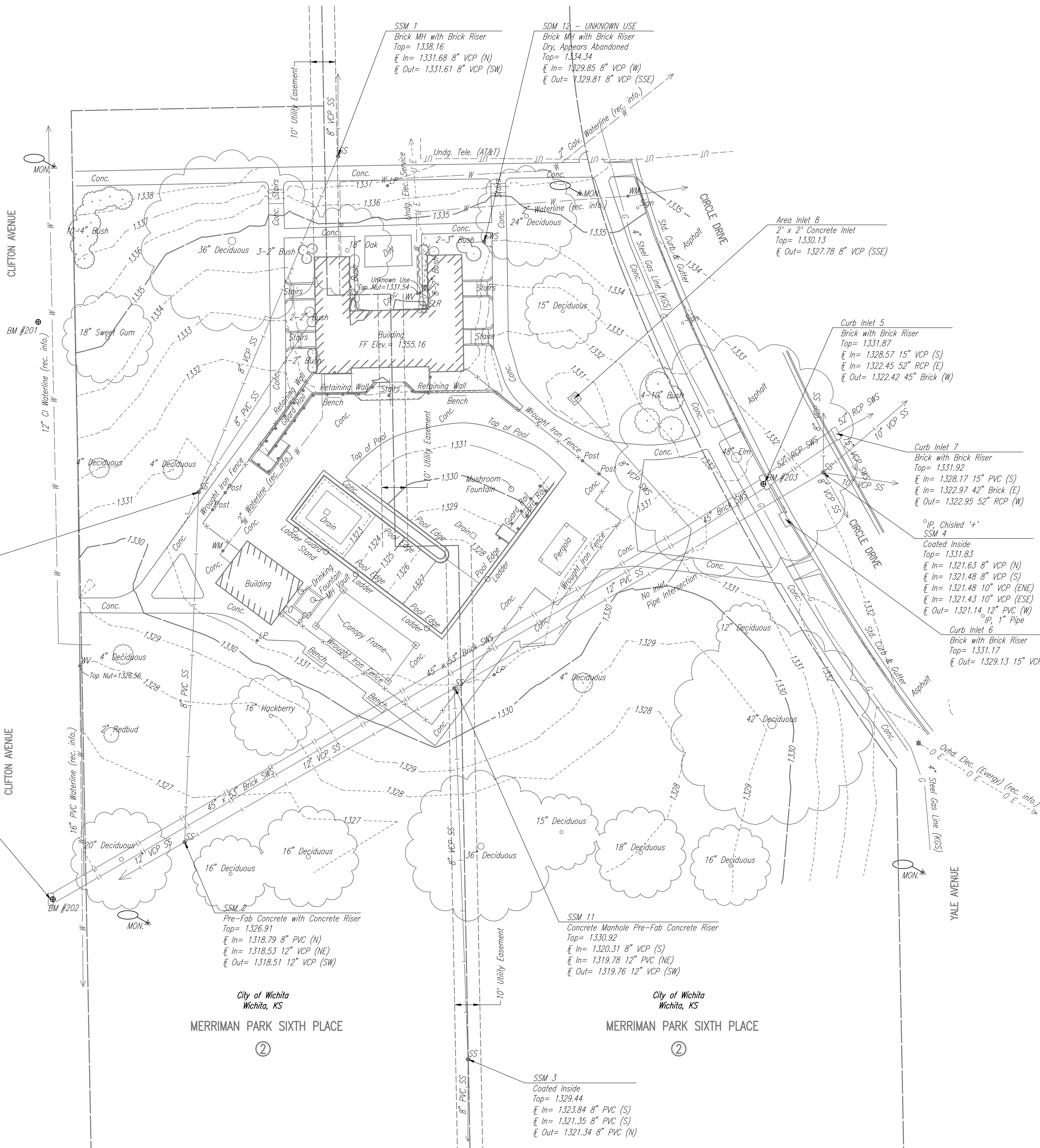
PROJECT LOCATION
 304 South Circle Drive
 Wichita, KS 67218

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---	COVER SHEET
SV-01	EXISTING CONDITIONS
SP-D1	EXISTING POOL DEMO PLAN
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SP-P1	PLUMBING PLAN, DETAILS & SCHEDULES
SP-E1	ELECTRICAL PLAN
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) 780-6707 www.LandworksStudio.com	
BUILDING ARCHITECT Urban Prairie Architectural Collaborative, P.C. 4523 Mercier Street 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	

1/2" IP, 1/2" Pipe



BENCH MARK LIST BM #201

- BM 201. N: 1,684,457.4287, E: 1,661,244.4923
ELEVATION: 1335.47 NAVD88
CHISELED SQUARE ON BACK OF EAST CURB OF CLIFTON BETWEEN WATERMAN AND LEWIS ACROSS THE STREET FROM 327 CLIFTON, 1' NORTH OF NORTH EDGE OF EAST-WEST SIDEWALK SEGMENT.
- BM 202. N: 1,684,228.8891, E: 1,661,250.2933
ELEVATION: 1325.92 NAVD88
CHISELED SQUARE ON BACK OF CURB INLET ON EAST CURB OF CLIFTON ACROSS THE STREET FROM 343 S. CLIFTON.
- BM 203. N: 1,684,393.2904, E: 1,661,531.6136
ELEVATION: 1331.89 NAVD88
CHISELED SQUARE ON BACK OF NORTH OF 2 INLETS ON WEST CURB OF CIRCLE DRIVE, 150' NORTH OF INTERSECTION OF CIRCLE AND YALE.

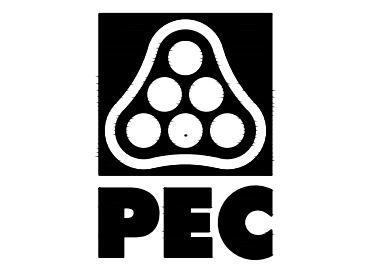
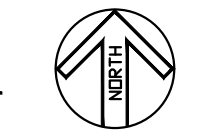
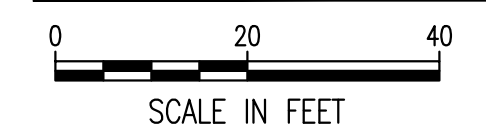
CONTROL POINTS

- CP-501. N: 1,684,518.9176, E: 1,661,250.7357
1/2" REBAR WITH BLUE PEC CONTROL POINT CAP IN GRASS. 24.00' WEST TO CENTER LINE OF CLIFTON NORTH-SOUTH. 65.00' NORTH TO CENTER LINE OF WATERMAN WEST. 1.80' EAST TO FACE OF SIDEWALK. 11.70' SOUTHWEST TO CENTERLINE OF POWER POLE.
- CP-502. N: 1,684,219.4450, E: 1,661,287.8942
1/2" REBAR WITH BLUE PEC CONTROL POINT CAP IN GRASS 55.00' WEST TO CENTERLINE OF CLIFTON NORTH-SOUTH. 13.00' NORTH TO SOUTH EDGE OF CURVILINEAR SIDEWALK. 25.00' WEST TO BACK OF SIDEWALK. 35.40' NORTH-NORTHEAST TO CENTER OF MANHOLE.
- CP-503. N: 1,684,239.4756, E: 1,661,594.7156
1/2" REBAR WITH BLUE PEC CONTROL POINT CAP IN GRASS. 44.00' NORTHEAST TO CENTERLINE INTERSECTION OF CIRCLE DRIVE AND YALE. 44.50' NORTH TO SOUTH EDGE OF WHEEL CHAIR RAMP. 2.60' EAST TO BACK OF WEST CURB OF YALE. 56.50' SOUTH TO CENTER OF 30" ELM TREE.
- CP-504. N: 1,684,508.2374, E: 1,661,459.0459
1/2" REBAR WITH BLUE PEC CONTROL POINT CAP IN GRASS. 6.20' NORTH TO SOUTH EDGE OF SIDEWALK. 7.20' EAST TO WEST EDGE OF SIDEWALK. 29.40' WEST TO 3 STAIRS IN SIDEWALK. 38.00' +/- EAST-NORTHEAST TO CENTERLINE OF CIRCLE DRIVE.

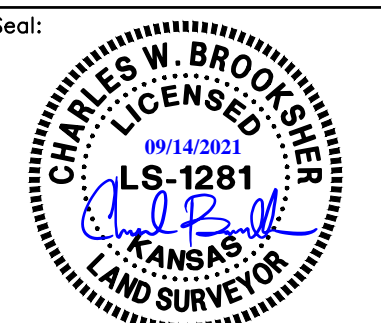
LEGEND

- Deciduous Tree
- Benchmark
- Power Pole
- Electric Box
- Gate Post
- Monument
- Sanitary Sewer Manhole
- Fire Hydrant
- Water Meter
- Water Valve
- Existing Spot Elevation
- Major Contour
- Minor Contour
- Guard Rail
- Overhead Electric
- Buried Electric
- Sanitary Sewer
- Storm Sewer
- Waterline
- Fence Types

EXISTING CONDITIONS



WICHITA, KANSAS
Pool Improvements
COLLEGE PARK

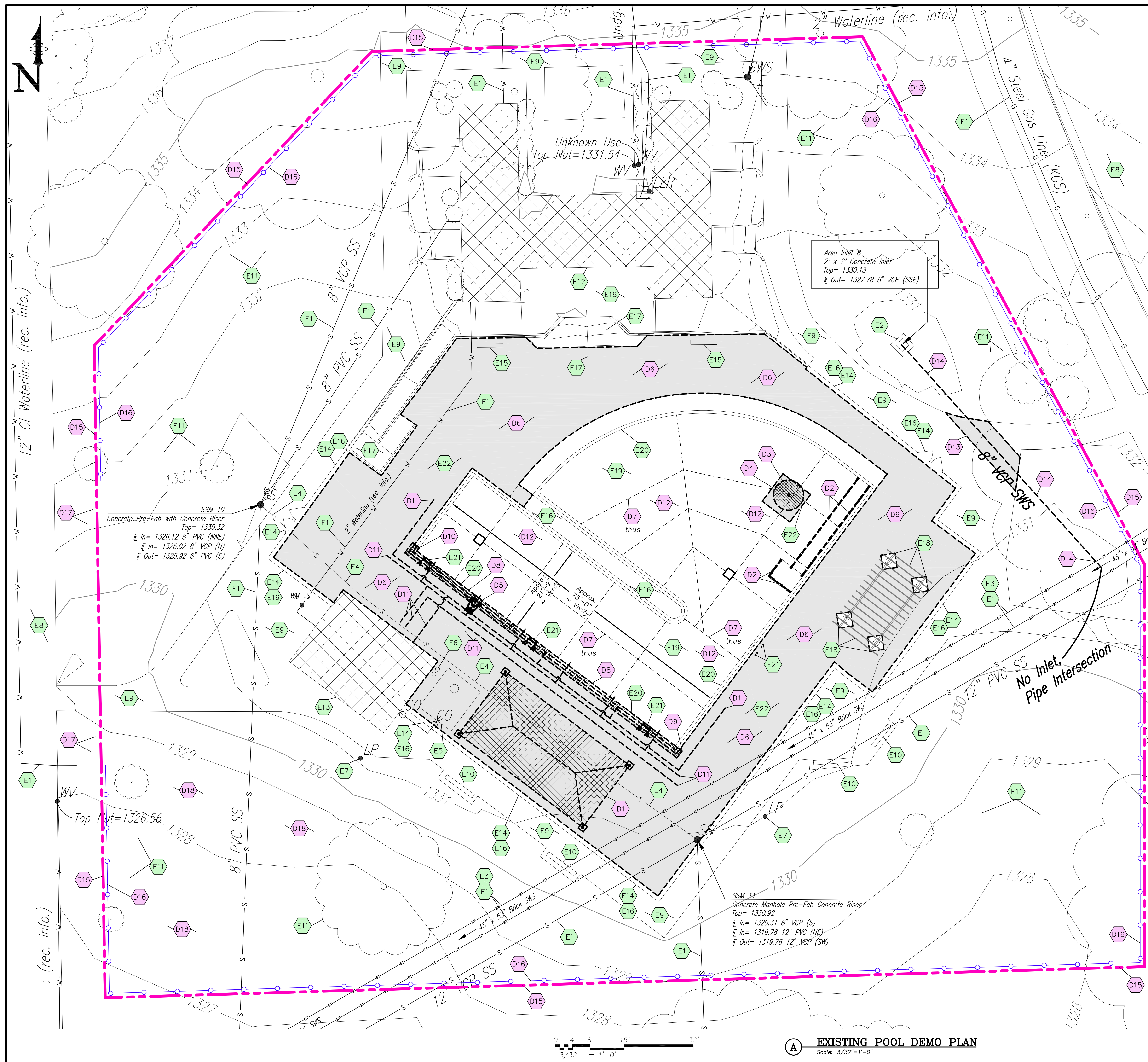


Charles Brooker - Licensed Surveyor
LICENSE #1281
Date: 05-20-19 Job #: 18-512
Drawn: Checked:
Issue: DESIGN DEVELOPMENT

EXISTING CONDITIONS

SV-01

Save: 04-10-2020 9:06:46 AM by RT
Plot Scale: 1:245.2402 09-14-2021 10:37:08 AM by H
U:\Wichita-Civil\2018\180189-001\Wm\Drawings\College Hill\180189-001-SV-01-Existing Conditions



POOL AREA KEY NOTES – EXISTING DEMOLITION

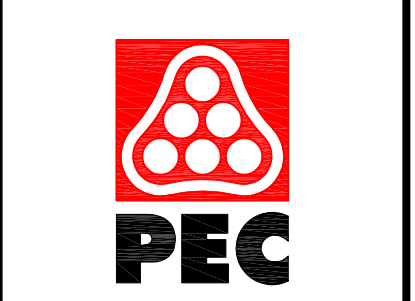
Contractor shall verify all existing dimensions and report any discrepancies

- EXISTING ITEMS**
- E1 Existing utilities shall be protected
 - E2 Existing storm water inlet shall be protected
 - E3 Existing storm water brick structure shall be protected ~ Contractor shall locate and use extreme caution
 - E4 Existing sanitary sewer shall be protected ~ Contractor shall verify actual existence and location for draining backwash pit
 - E5 Existing backwash pit shall be protected
 - E6 Existing drinking fountain shall be protected
 - E7 Existing light pole shall be protected and remain in service
 - E8 Existing road with curb and gutter shall be protected ~ If damaged, replace with new to meet or exceed existing
 - E9 Existing sidewalk shall be protected ~ See Detail A-SP-PM2 ~ If damaged, replace with new to meet or exceed existing
 - E10 Existing bench shall be protected
 - E11 Existing tree shall be protected
 - E12 Existing bathhouse shall be protected ~ See Architectural Sheets for select demo
 - E13 Existing filter building shall be protected ~ See Filter Area Sheets for select demo
 - E14 Existing fence shall be protected ~ See Detail A-SP-PM2
 - E15 Existing bench shall be removed and protected for reinstallation
 - E16 Existing deck shall be protected ~ See Detail A-SP-PM2
 - E17 Existing steps, ramp, and rails shall be protected
 - E18 Existing gazebo and footings shall be protected
 - E19 Existing pool structure shall be protected ~ See Detail A-SP-PM2
 - E20 Existing pool gutter PVC grating shall be removed and protected for reinstallation ~ See Detail A-SP-PM2
 - E21 Existing grab rails shall be removed and protected for reinstallation ~ See Detail A-SP-PM2
 - E22 Existing pool piping shall be protected ~ See Detail A-SP-PM2

- DEMOLITION ITEMS**
- D1 Remove existing shade structure and footings
 - D2 Remove existing pool ramp rails for improvements
 - D3 Remove existing vertical water feature for improvements
 - D4 Remove existing partial pool floor at water feature for improvements
 - D5 Remove existing lifeguard chair
 - D6 Remove existing deck for improvements ~ See Detail A-SP-PM2
 - D7 Remove existing sealant from pool floor and wall joints for improvements
 - D8 Remove existing partial pool wall for improvements ~ See Detail A-SP-PM2
 - D9 Remove existing pool wall to Southeast corner
 - D10 Remove existing pool wall to approximately 12" past Northwest corner, up to existing construction joint
 - D11 Remove existing partial pool piping for improvements ~ See Sheet SP-PM1
 - D12 Remove existing pool floor and wall paint by sandblasting to bare concrete for improvements
 - D13 Remove existing sidewalk for drainage improvements
 - D14 Remove existing drain pipe for drainage improvements ~ Use extreme caution at existing brick structure
 - D15 Construction limits
 - D16 Suggested silt fence location
 - D17 Construction access
 - D18 Construction staging

EXISTING CONDITIONS

Existing conditions are shown to the best ability, using existing plans. Contractor shall notify Engineer if any discrepancies are discovered.



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

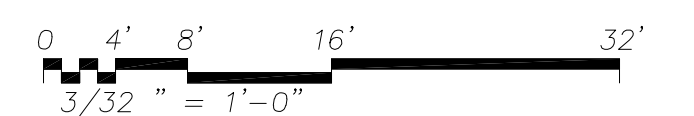


Jeff Bartley - ENGINEER
LICENSE #15116
Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

EXISTING
POOL
DEMO
PLAN

SP-D1
Water's Edge Aquatic Design
© 2021

EXISTING POOL DEMO PLAN
Scale: 3/32" = 1'-0"



POOL AREA KEY NOTES

- 1 Subgrade at new pool floor ~ See Detail C-SP-P2
~ Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report
- 2 Existing subgrade at existing filter area and new pool expansion shall be shored as req'd
- 3 Subgrade at new pool deck
~ Remove existing settled subgrade, recompact, and provide 9" min. depth structural fill geotextile fabric, and 9" min. depth of granular fill, under all new deck
~ Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report
- 4 Existing pool floor ~ See Detail A-SP-PM2
- 5 Existing pool wall ~ See Detail A-SP-PM2
- 6 Existing pool deck ~ See Detail A-SP-PM2
- 7 Existing sidewalk, fence, and pool deck ~ See Detail A-SP-PM2
- 8 Existing gutter outlet ~ See Detail A-SP-PM2
- 9 Existing recirc inlet lateral ~ See Detail A-SP-PM2
- 10a Existing piping shall be pressure tested and replaced as required per measured quantity/unit cost
- 10b Existing main drain piping
- 11 Existing gutter return piping
- 12 Existing recirc piping
- 13 Existing recirc floor inlet
- 14 Existing feature piping
- 15 Pool floor ~ See Detail A-SP-PM2
- 16 Pool wall ~ See Detail A-SP-PM2
- 17 Pool deck ~ See Detail A-SP-PM2
- 18 Gutter return piping
- 19 Recirc piping
- 20 Feature piping
- 21 Connection at existing piping to new piping
- 22 Deep area main drain VGB grate ~ Approx. 24" x 24" ~ Contractor shall verify ~ Raised finish with adjacent pool floor ~ Anchor per mfr. with S.S. hardware
- 23 Shallow area main drain VGB grate ~ Approx. 24" x 24" ~ Contractor shall verify ~ Flush finish with adjacent pool floor ~ Anchor per mfr. with S.S. hardware
- 24 Existing cup anchor
- 25 Cup anchor ~ See Detail A-SP-PM2
- 26 Racing line by Owner (N.I.C.)
- 27 Buoy line by Owner (N.I.C.)
- 28 Existing gutter grating shall be reinstalled
- 29 Gutter grating ~ See Detail A-SP-PM2
- 30 Tile deck/gutter wall ~ See Detail A-SP-PM2
- 31 Deck markers ~ See Detail A-SP-PM2 and Legend on Sheet SP-P0
- 32 Remove existing depth markers and repair deck
- 33 ADA ramp with handrails ~ See Detail B-SP-PM3
- 34 Pool floor construction joint ~ See Detail C-SP-PM3
- 35 Pool floor/wall to existing pool floor/wall ~ See Detail D-SP-PM3
- 36 Pool floor repair ~ See Detail E-SP-PM3
- 37 Existing pool construction joints (floor and wall) shall be filled with crystalline repair material ~ Grind existing joints to be clean and minimum 1" wide x 1 1/2" deep
- 38 Existing pool floor and wall cracks shall be filled with crystalline repair material ~ Route existing cracks to be clean and minimum 1" wide x 1 1/2" deep ~ Base bid quantity shall be 100 l.f.
- 39 "Vortex Frog No. 5" ~ See Detail F-SP-PM4
- 40 Pool wall construction joint equally spaced ~ See Detail G-SP-PM4
- 41 Gutter outlet ~ See Detail I-SP-PM4
- 42a Wall inlet fitting with 3/4" orifice (orifice only for existing wall inlets) ~ See Detail J-SP-PM4
- 42b Wall inlet fitting with 3/4" orifice (entire assembly for new wall inlets) ~ See Detail J-SP-PM4
- 43 (3) Recessed steps, (2) existing grab rails, with deck anchors ~ See Detail K-SP-PM4
- 44 Existing grab rails shall be reinstalled at existing recessed steps, with new deck anchors ~ See Detail K-SP-PM4 similar
- 45 Existing gazebo and footings
- 46 Sunshade types
Base bid
~ Mfr. Solar Shade
~ Approx. 30' diameter, single post, standard, hexagon
Alternate bid 1
~ Mfr. Solar Shade
~ Approx. 30' diameter, single post, custom rolled
Alternate bid 2
~ Mfr. Tensile Shade Products
~ Approx. 30' diameter, single post, Trillium
- 47 Sunshade types
Base bid
~ Mfr. Solar Shade
~ Approx. 16' x 16', single post, cantilever, standard, square
Alternate bid 1
~ Mfr. Solar Shade
~ Approx. 16' diameter, single post, hexagon, custom alternating high/low arms
Alternate bid 2
~ Mfr. Tensile Shade Products
~ Approx. 17' x 19', single post, cantilever, Visor
- 48 ADA ramp handrail wedge anchor ~ See Detail M-SP-PM4
- 49 Slip anchor and backstroke stanchion post ~ See Detail M-SP-PM4
- 50 Backstroke pennant and cable
- 51 Anchor and starting platform (30" setback and verify 5" freeboard) ~ See Detail M-SP-PM4
- 52 Anchors only for starting platform storage (verify spacing) ~ See Detail M-SP-PM4
- 53 Existing portable ADA lift provided by Owner (N.I.C.) ~ Contractor shall provide "Secure-It-Kit" deck anchor
- 54 Pool deck ~ See Detail N-SP-PM4 ~ Deck and drain finish surface elevations
~ Deck slopes shall be 1% min. / 2% max.
~ Water shall not be allowed to pond in any location
~ New deck elevations shall match flush with existing deck/sidewalk elevations
- 55 Pool deck at gutter elevation ~ Contractor shall verify existing
- 56 Construction joint ~ See Detail N-SP-PM4
- 57 Expansion joint ~ See Detail N-SP-PM4
- 58 Isolation joint ~ See Detail N-SP-PM4
- 59 Saw cut ~ See Detail N-SP-PM4
- 60 Valley/ridge line ~ No joint
- 61 Pool finish ~ See Detail O-SP-PM4
- 62 Racing floor and wall target ~ See Detail O-SP-PM4
- 63 Black stripe at main drain grate ~ See Detail O-SP-PM4
- 64 Warning stripe at 5'-0" water depth on floor and wall ~ See Detail O-SP-PM4
- 65 Black stripe at ADA ramp landing curb ~ See Detail O-SP-PM4
- 66 Paint existing backwash manhole lid non-slip white
- 67 Provide fence gate exit hardware and signage "EXIT" and "ATTENTION: EMERGENCY GATE ONLY"
- 68 Existing utility - electric
- 69 Existing utility - gas
- 70 Existing utility - sanitary sewer
- 71 Existing utility - sanitary sewer
~ Contractor shall verify actual existence and location for draining backwash pit
- 72 Existing utility - storm water brick structure shall be protected
~ Contractor shall locate and use extreme caution
- 73 Existing storm sewer inlet
- 74 Provide 12" RCP drain pipe
- 75 Connect to existing storm sewer brick structure
~ Carefully connect at existing penetration and repair
~ Angle of inflow shall be 90° or less relative to upstream flow
- 76 Sidewalk ~ See Detail N-SP-PM4
~ Provide #4 @ 18" dowels drilled and epoxied into existing sidewalk ~ Embed 4"
- 77 Existing utility - water
- 78 Contractor shall verify existing utility location and clearance at sunshade footing and pool piping
- 79 Existing bathroom ~ See Architectural Sheets for improvements
- 80 Existing filter building ~ See Filter Area Sheets for improvements
- 81 Existing backwash pit
- 82 Existing drinking fountain
- 83 Existing deck, steps, ramp, and rails
- 84 Existing bench reinstalled

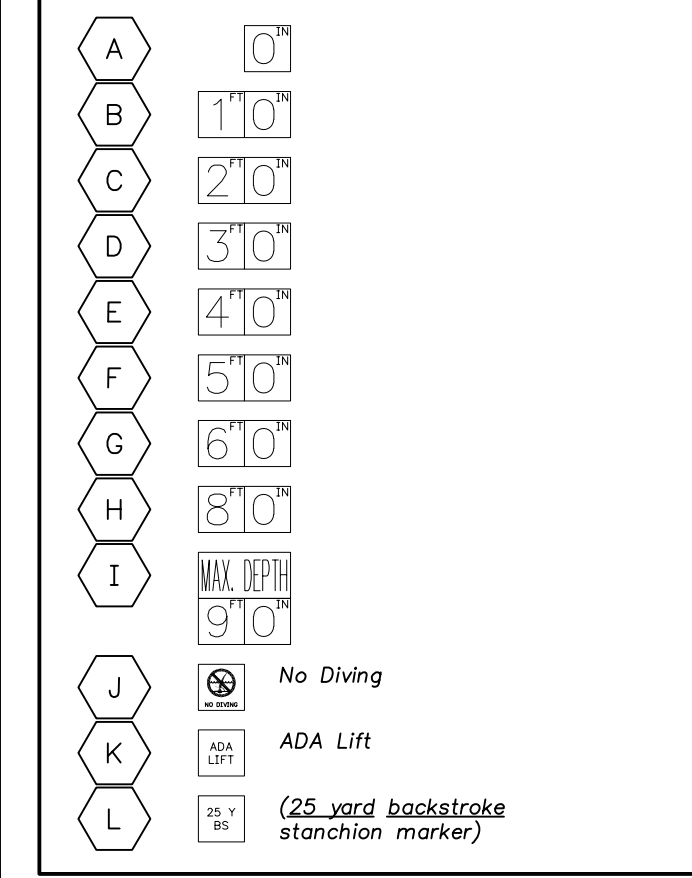
ABBREVIATIONS

&	And
@	At
°	Degree
φ	Diameter
"	Feet
"	Inches
#	Number
w/	With
w/o	Without
ACI	American Concrete Institute
Addl.	Additional
A.F.F	Above finish floor
Approx.	Approximately
Arch.	Architectural
BFV	Butterfly valve
Bldg.	Building
BM	Benchmark
Clr.	Clear
CMU	Concrete masonry unit
Ctr.	Center
Det.	Detail
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
Fr.	Feet
Galv.	Galvanized
GPW	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
Thus	Typical
Trans.	Transverse
Typ.	Typical
Vert./V.	Vertical

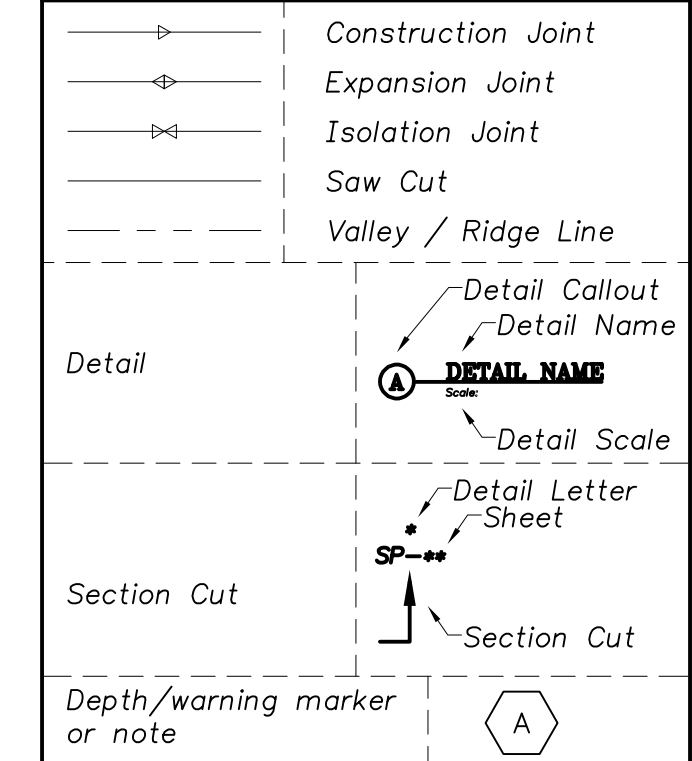
POOL SURFACE AREA DATA	
Shallow Area	2,415 S.F.
Lap Area	1,682 S.F.
Additional Lap Area	525 S.F.
Total Pool Surface Area	4,622 S.F.
Pool Perimeter	381 L.F.
Concrete Deck Area	6,836 S.F.
POOL VOLUME DATA	
Shallow Area	31,280 Gallons
Lap Area	86,160 Gallons
Additional Lap Area	27,220 Gallons
Total Pool Volume	144,660 Gallons
POOL RECIRC. RATE DATA	
Total Pool Recirc. Rate	600 GPM
POOL PATRON DATA	
Total Patrons (MAHC = 1/20s.f.)	231 Patrons

"CERAMIC TILE" DEPTH/WARNING MARKERS

- Ceramic tiles shall be imbedded flush into concrete pool deck
- Depth markers shall be located at 20'-0" O.C. max. spacing (Depth markers on vertical wall - if req'd - shall be located as indicated on plan)
- No Diving markers shall be located at 25'-0" O.C. max. spacing
- Contractor shall verify location of depth markers at proper water depth
- Do not saw cut thru ceramic tiles ~ Saw cuts shall be 6" min. from ceramic tile edge
- Depth/warning markers on deck shall be placed to be read from deck (not from pool)

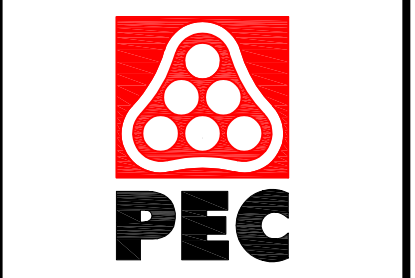


SYMBOLS



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

Kansas STATE CERTIFICATE OF AUTHORITY #E-990



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley - ENGINEER
LICENSE #15116
Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB

ISSUE: CONSTRUCTION DOCUMENTS
POOL AREA KEY NOTES AND DATA

SP-P0



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley - ENGINEER
LICENSE #15116

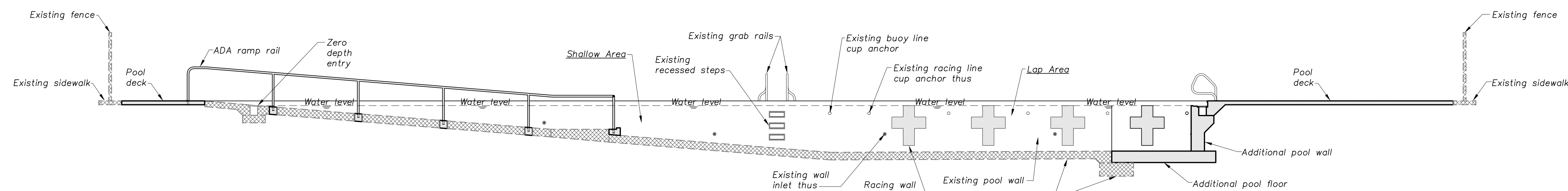
Date: 09-27-21 Job #: 18-512

Drawn: SRS Checked: JAB

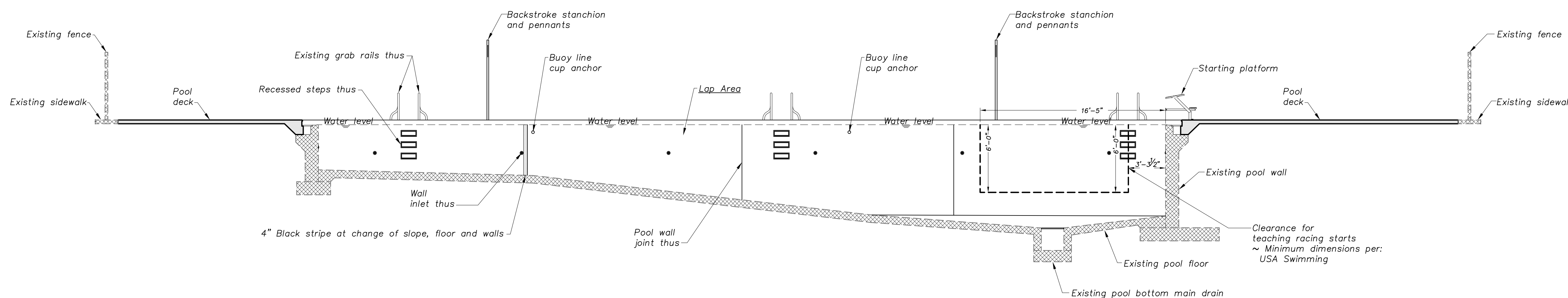
Issue: CONSTRUCTION DOCUMENTS

POOL
SECTIONS

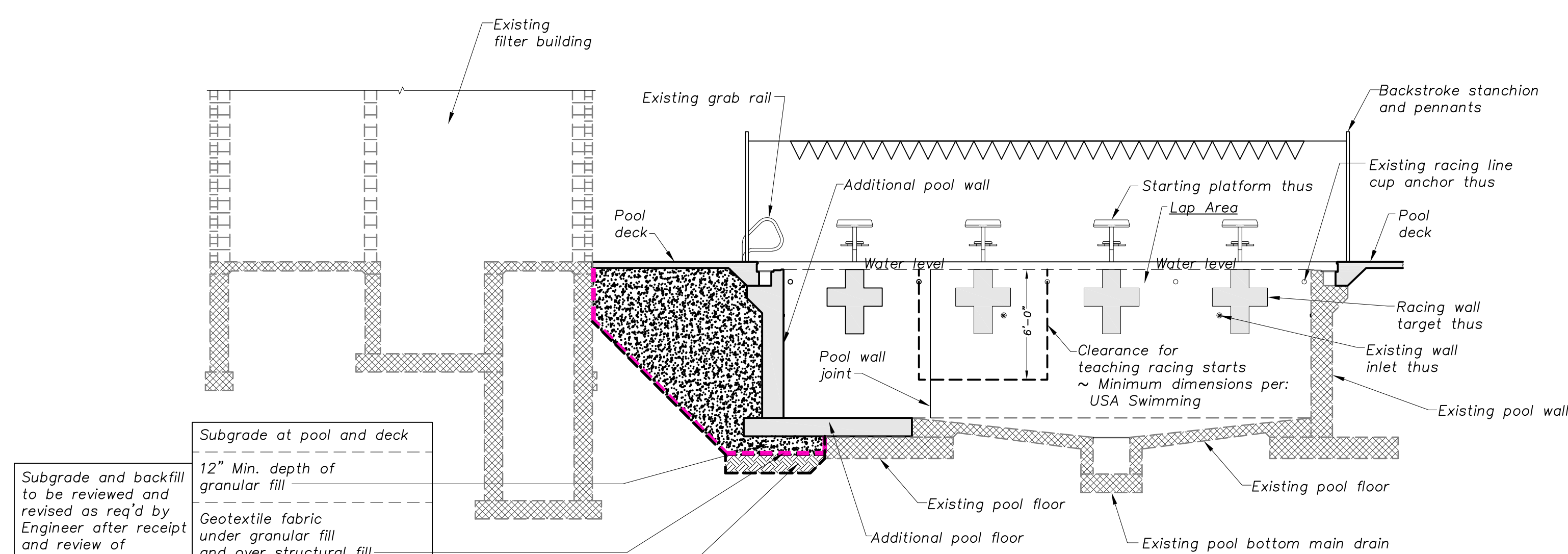
SP-P2



A POOL SECTION
Scale: 3/16"=1'-0"

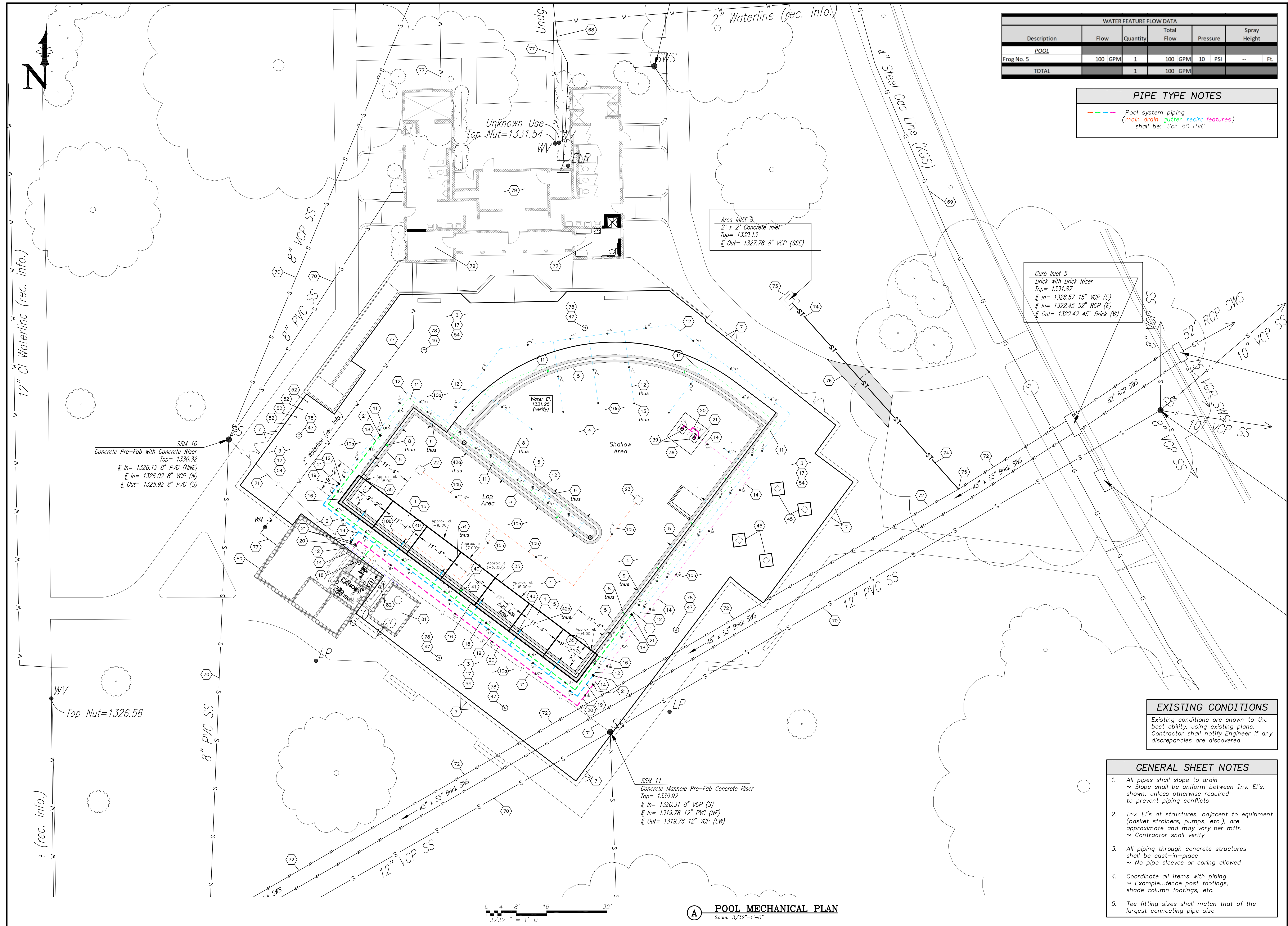


B POOL SECTION
Scale: 3/16"=1'-0"



- Subgrade at pool and deck
 - 12" Min. depth of granular fill
 - Geotextile fabric under granular fill and over structural fill
 - 12" Min. depth of structural fill
- Subgrade and backfill to be reviewed and revised as req'd by Engineer after receipt and review of Geotechnical Report

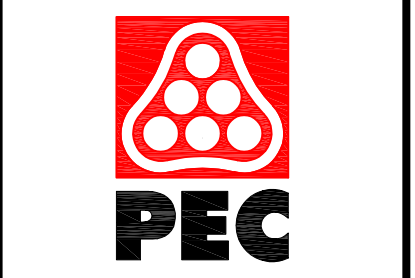
C POOL SECTION
Scale: 3/16"=1'-0"



WATER FEATURE FLOW DATA					
Description	Flow	Quantity	Total Flow	Pressure	Spray Height
POOL					
Frog No. 5	100 GPM	1	100 GPM	10 PSI	-- Ft.
TOTAL		1	100 GPM		

PIPE TYPE NOTES

Pool system piping
 (main drain gutter recirc features)
 shall be: Sch 80 PVC



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



EXISTING CONDITIONS
 Existing conditions are shown to the best ability, using existing plans. Contractor shall notify Engineer if any discrepancies are discovered.

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

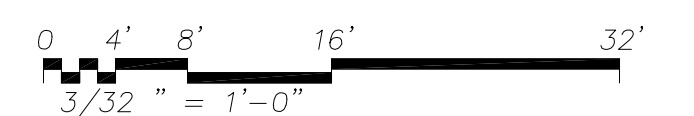


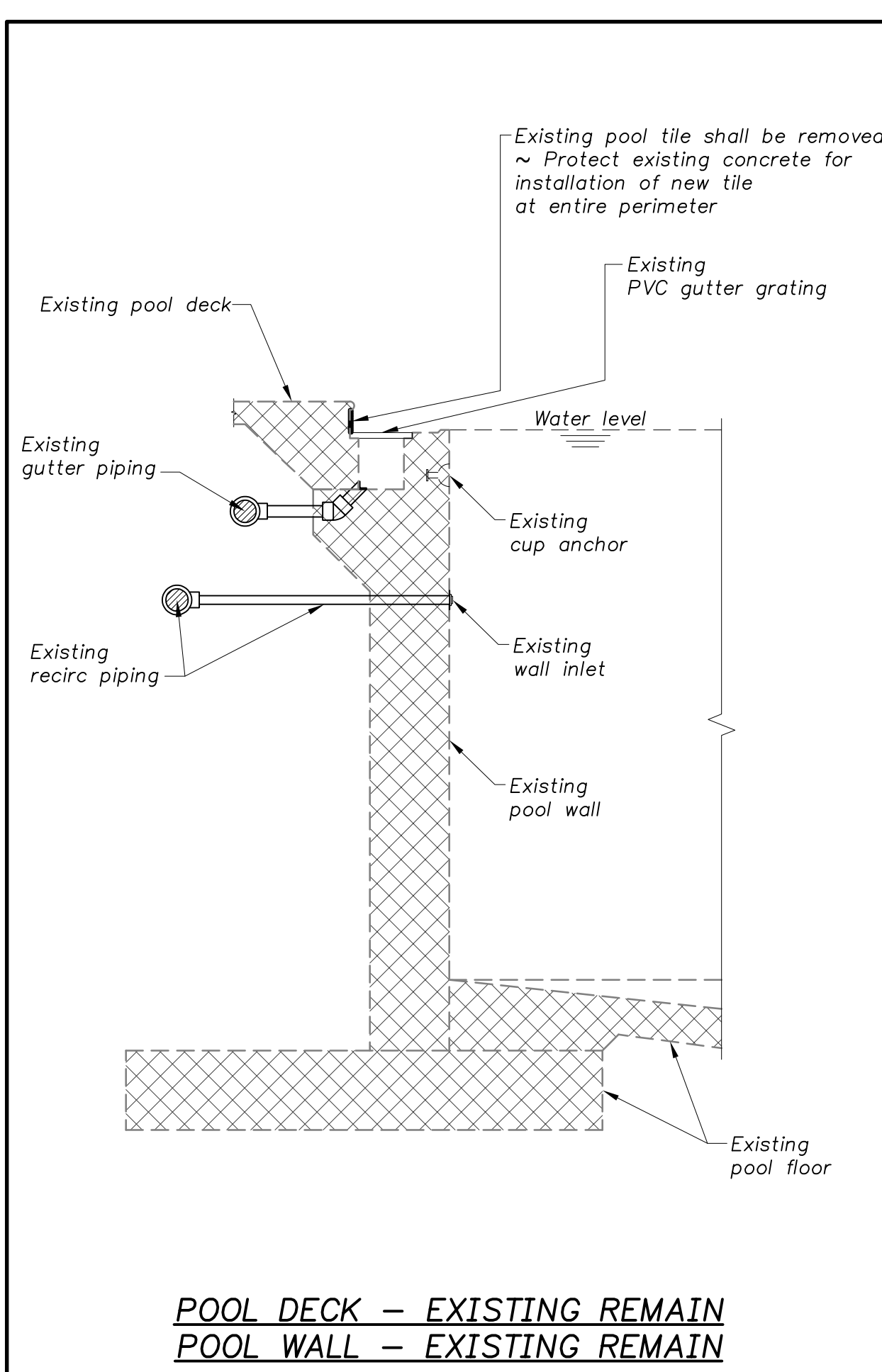
Jeff Bartley - ENGINEER
 LICENSE #15116
 Date: 09-27-21 Job #: 18-512
 Drawn: SRS Checked: JAB
 Issue: CONSTRUCTION DOCUMENTS

POOL MECHANICAL PLAN

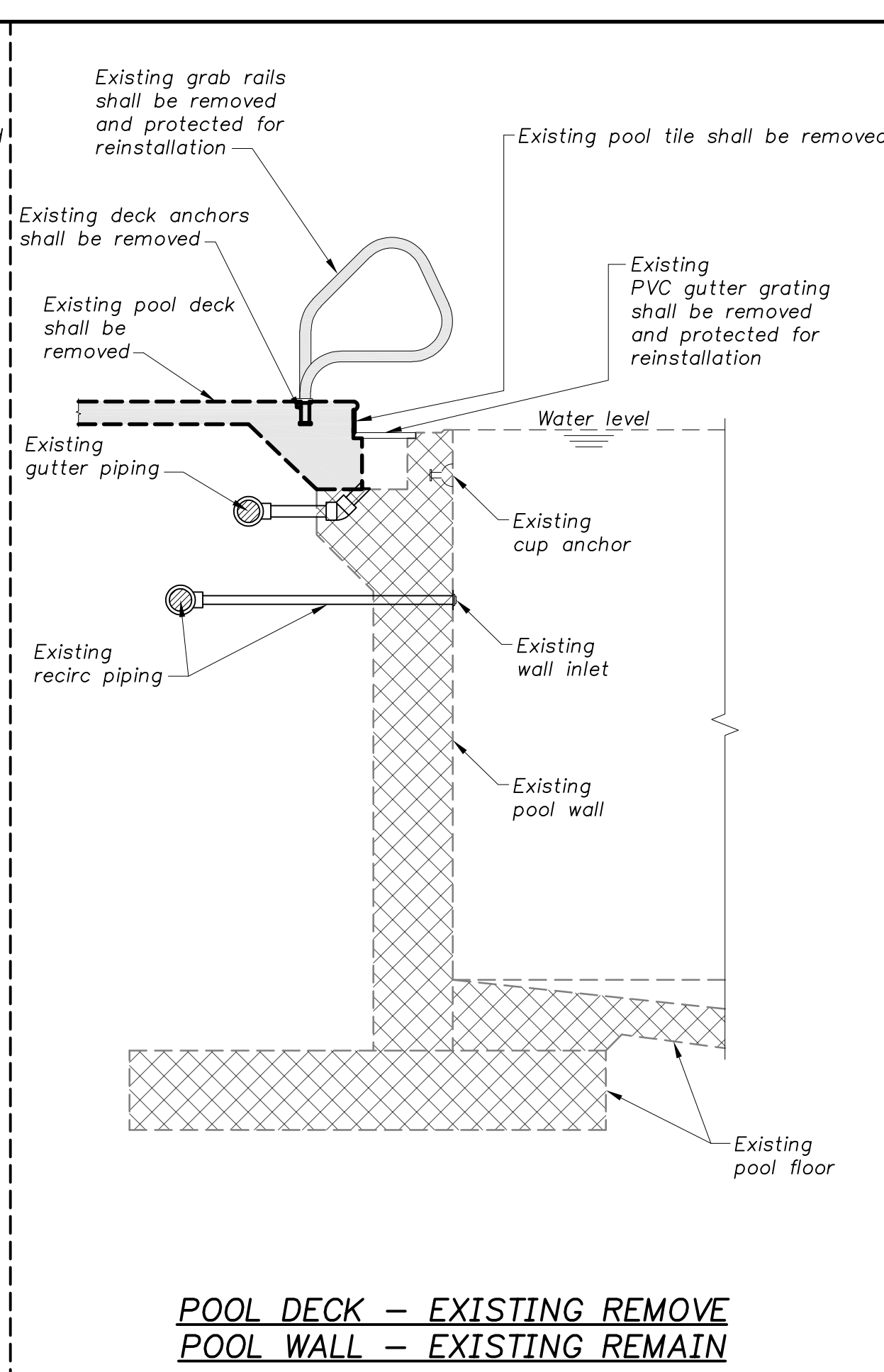
SP-PM1

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

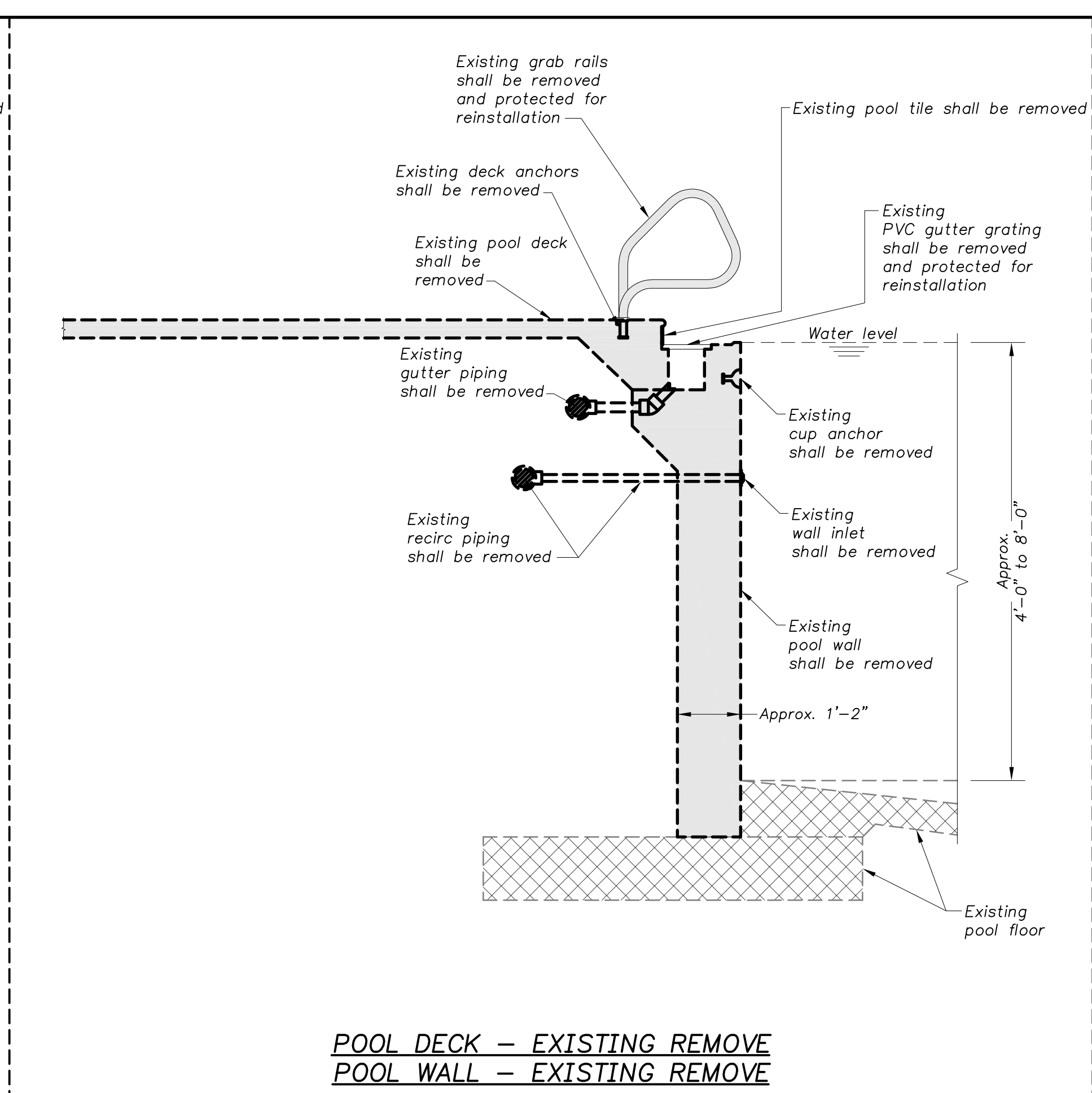




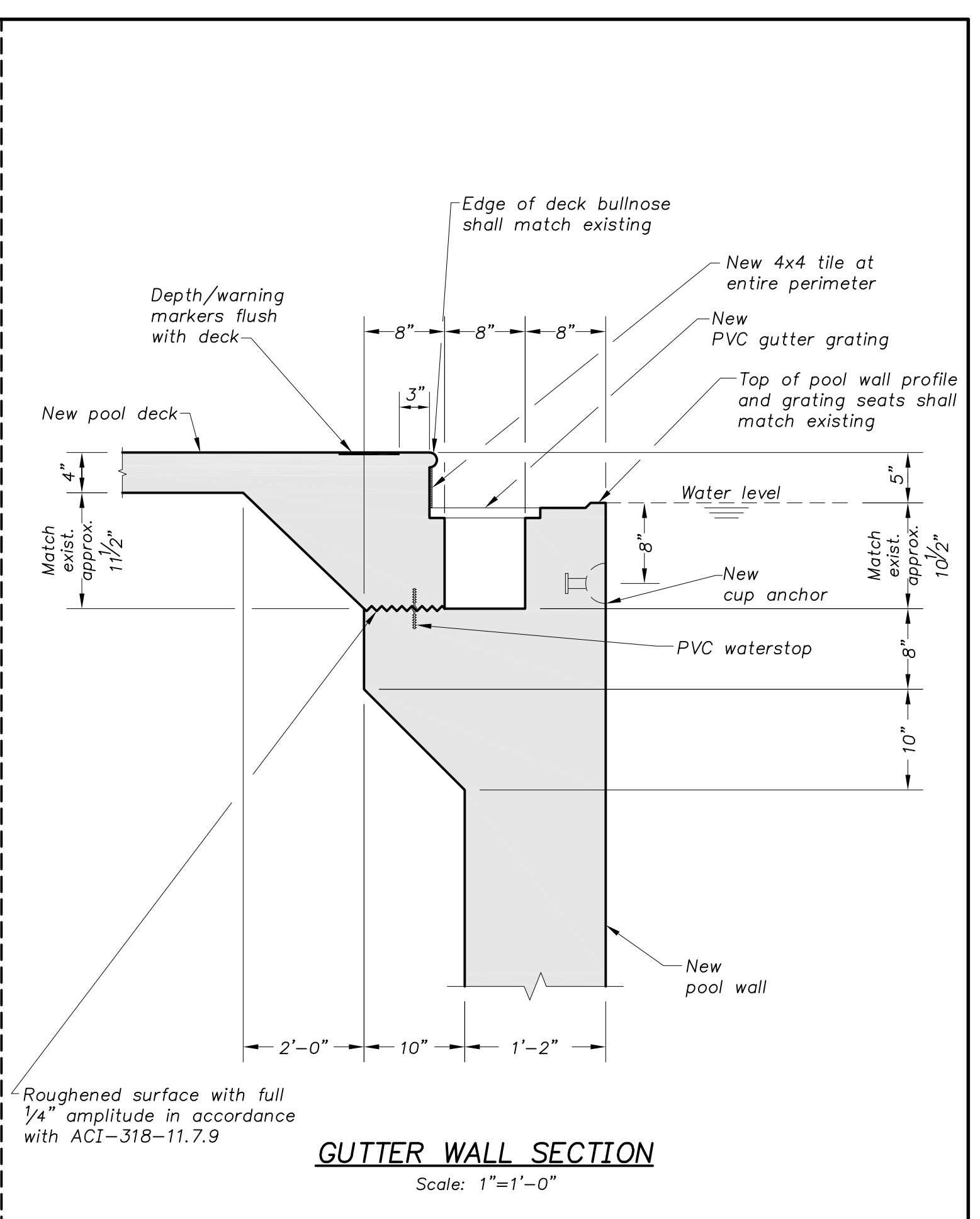
POOL DECK - EXISTING REMAIN
POOL WALL - EXISTING REMAIN



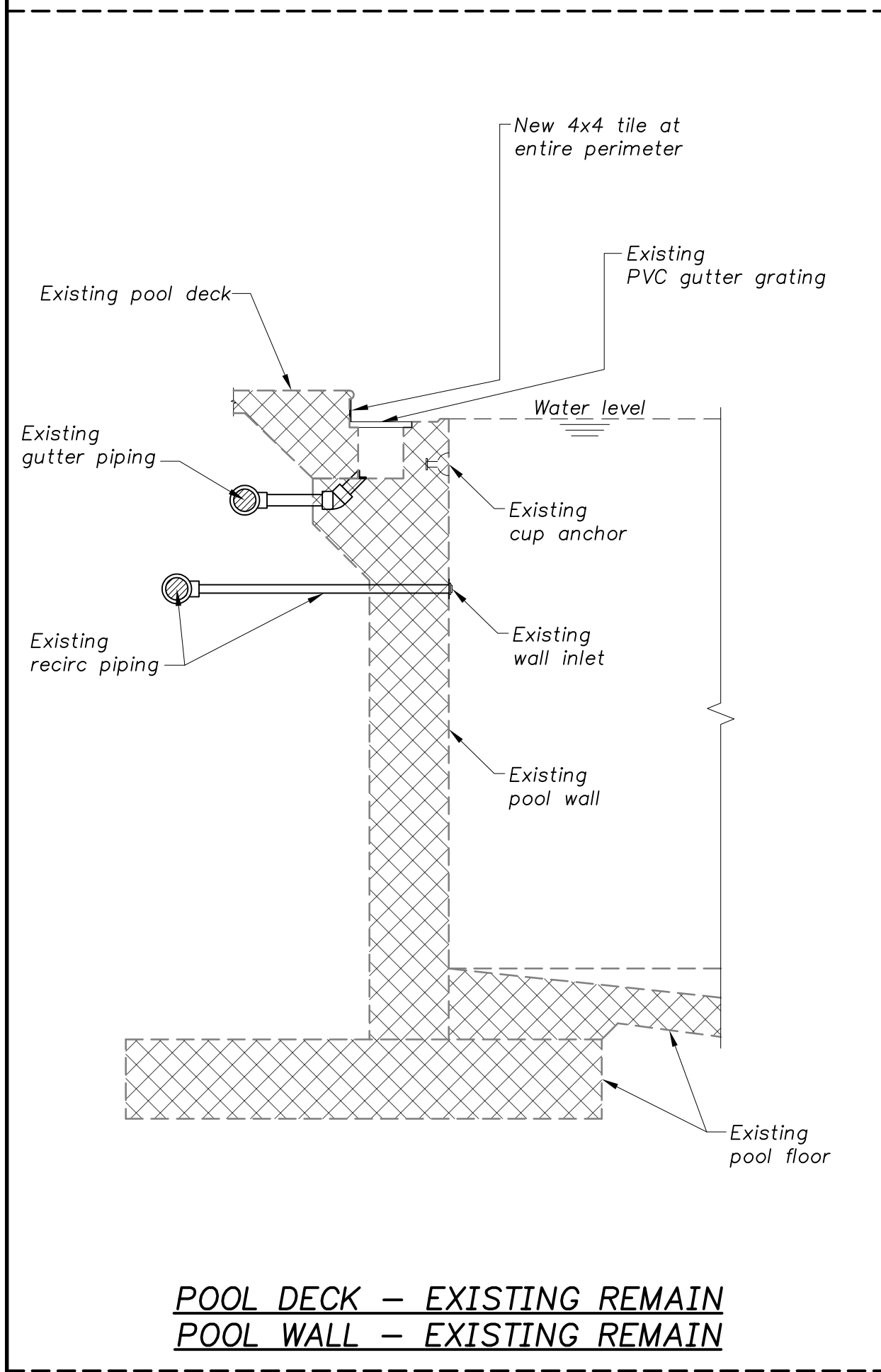
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POOL WALL - EXISTING REMAIN



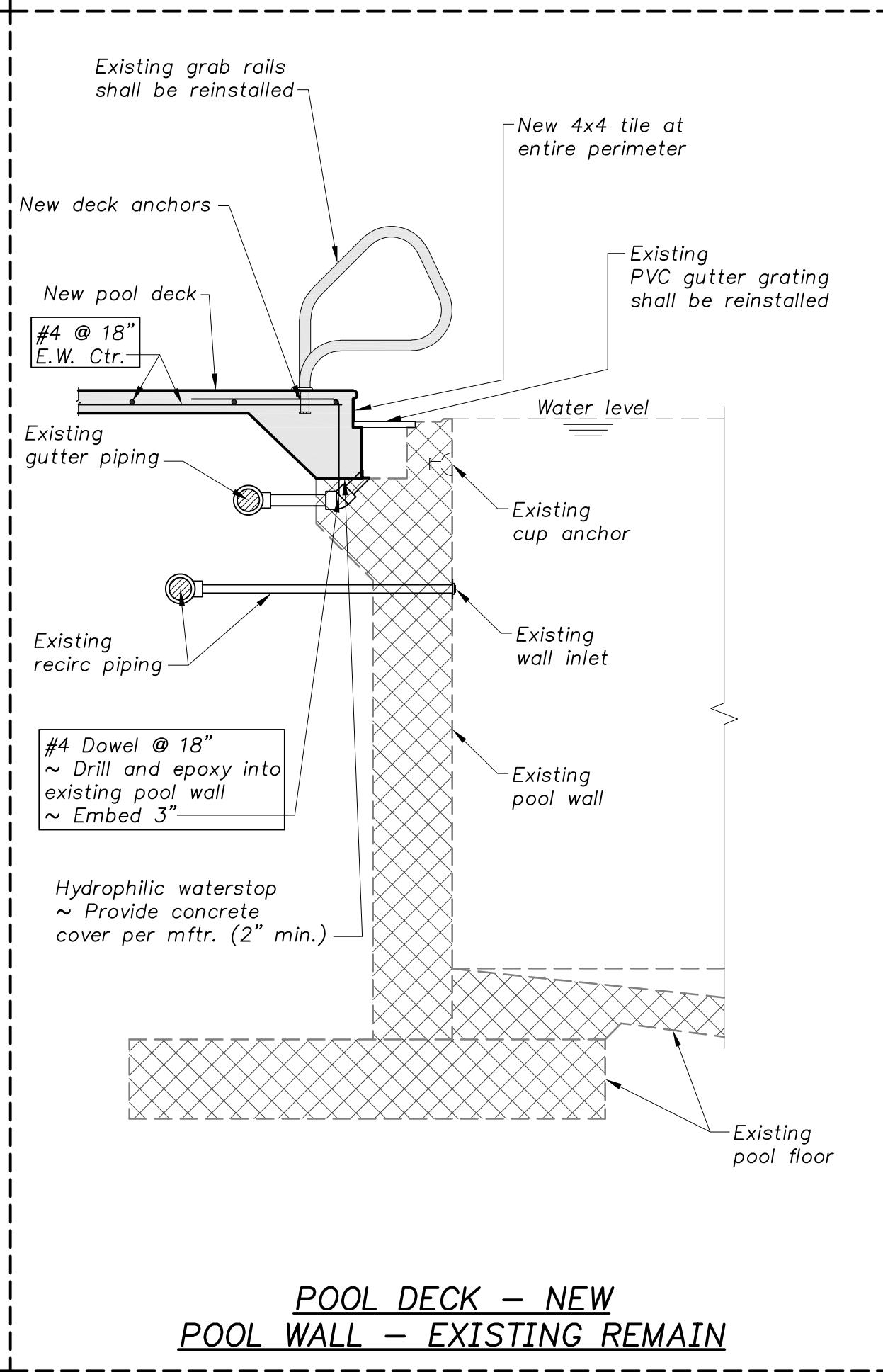
POOL DECK - EXISTING REMOVE
POOL WALL - EXISTING REMOVE



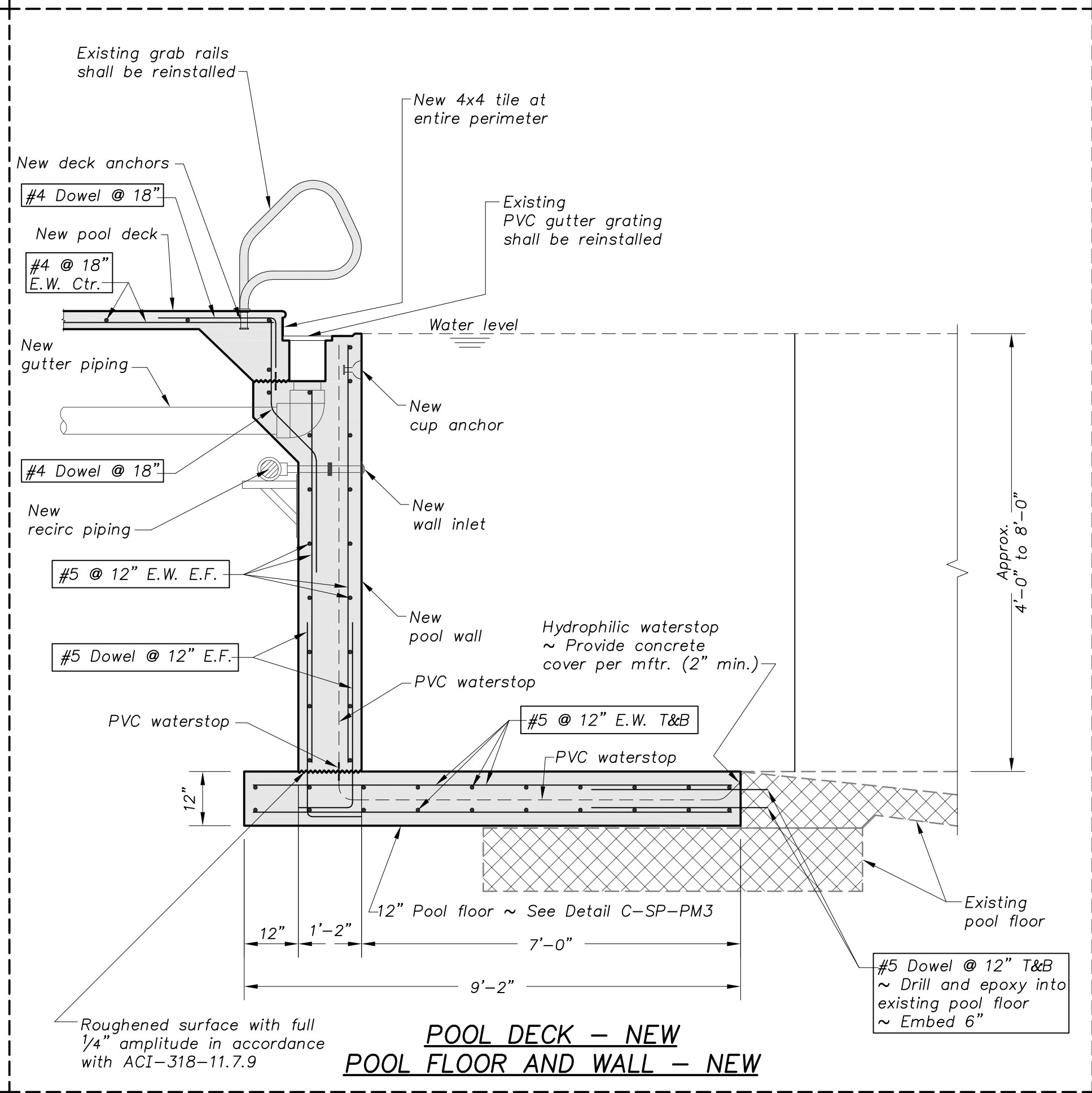
GUTTER WALL SECTION
Scale: 1"=1'-0"



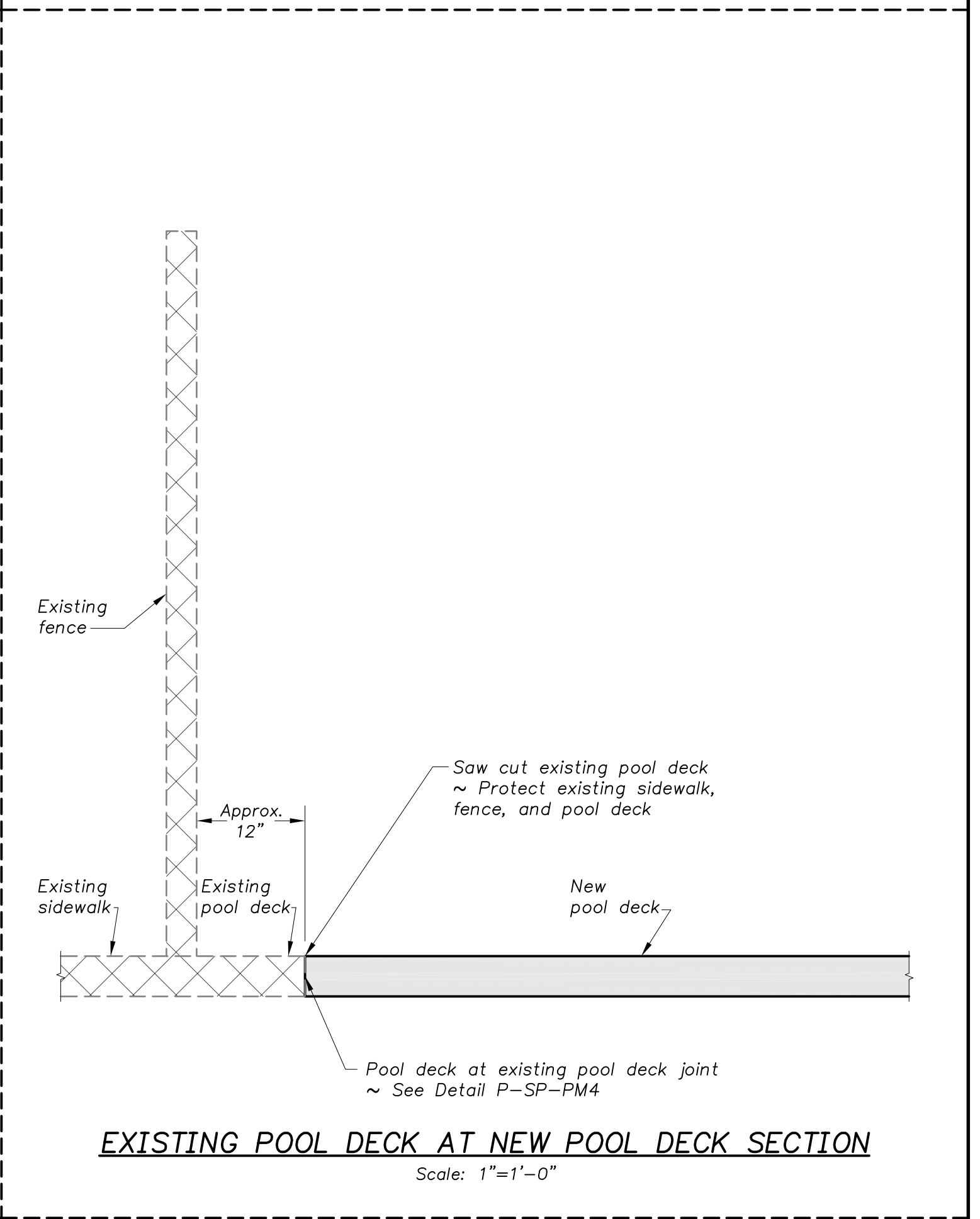
POOL DECK - EXISTING REMAIN
POOL WALL - EXISTING REMAIN



POOL DECK - NEW
POOL WALL - EXISTING REMAIN

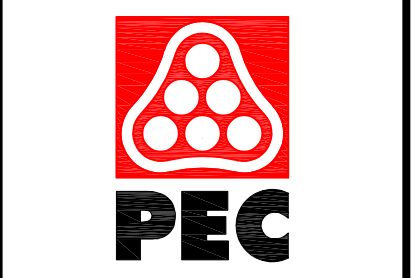


POOL DECK - NEW
POOL FLOOR AND WALL - NEW

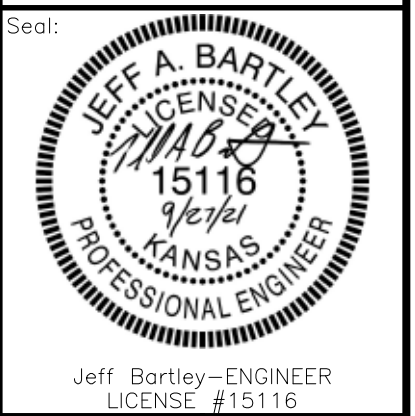


EXISTING POOL DECK AT NEW POOL DECK SECTION
Scale: 1"=1'-0"

(A) POOL FLOOR AND WALL DETAILS
Scale: 1/2"=1'-0"



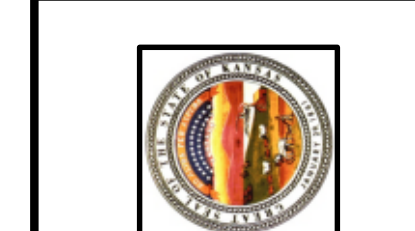
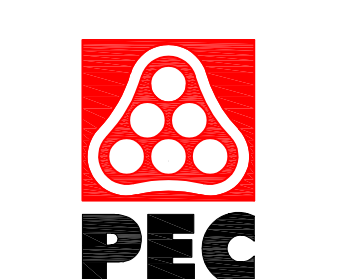
WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL AREA DETAILS

SP-PM2



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

Seal:
JEFF A. BARTLEY
ENGINEER
LICENSE #15116
9/17/14
KANSAS
PROFESSIONAL ENGINEER

Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

POOL AREA DETAILS

SP-PM3
Water's Edge Aquatic Design
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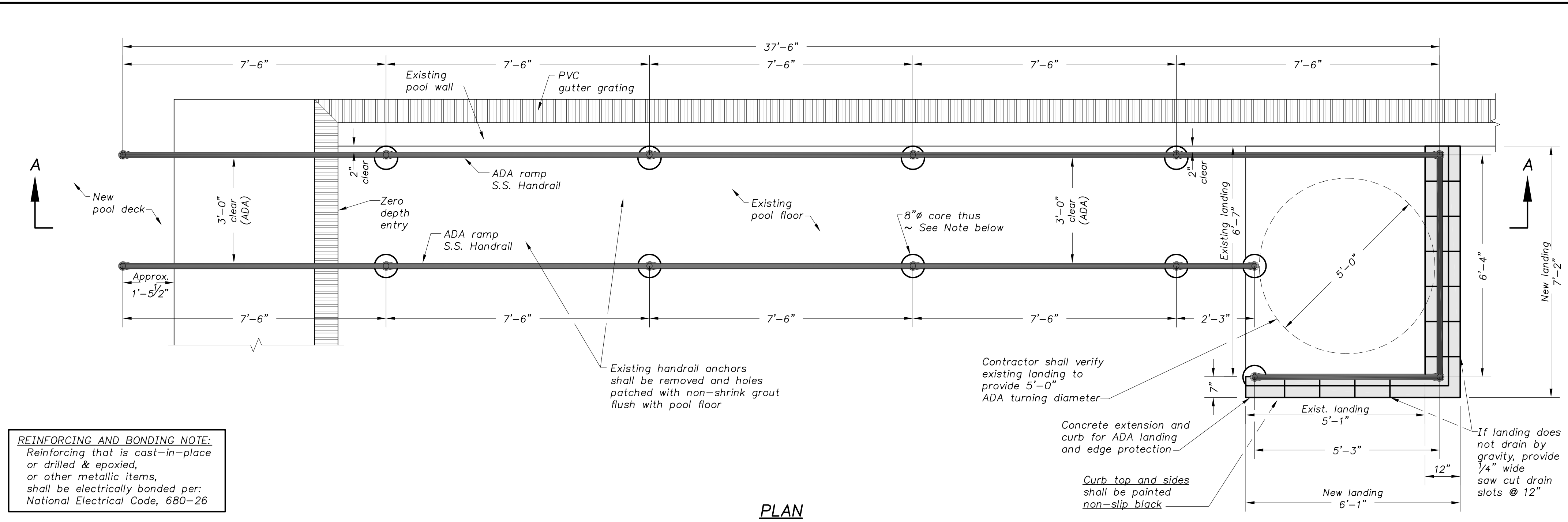
LAP LENGTH SCHEDULE		
BAR SIZE	LAP LENGTH	HOOK LENGTH
#3	19"	7"
#4	26"	10"
#5	31"	12"
#6	37"	15"
#7	54"	17"
#8	62"	19"

- NOTES:
- Bar lap length of smaller diameter bar shall be used when splicing different size bars.
 - Lap splices shall be wired in contact.
 - Tabulated values are based on 4000 psi, normal weight concrete with Grade 60 reinf.

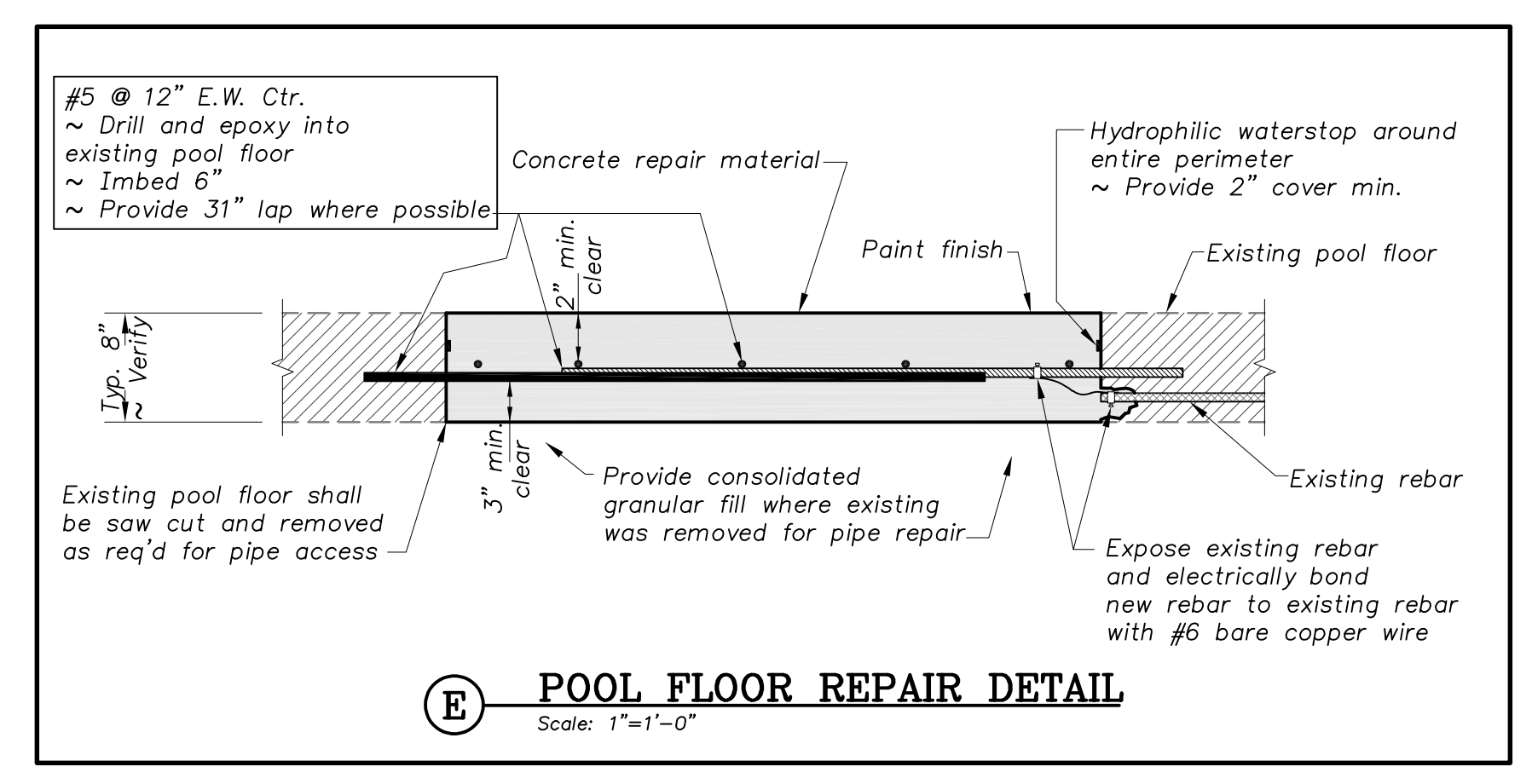
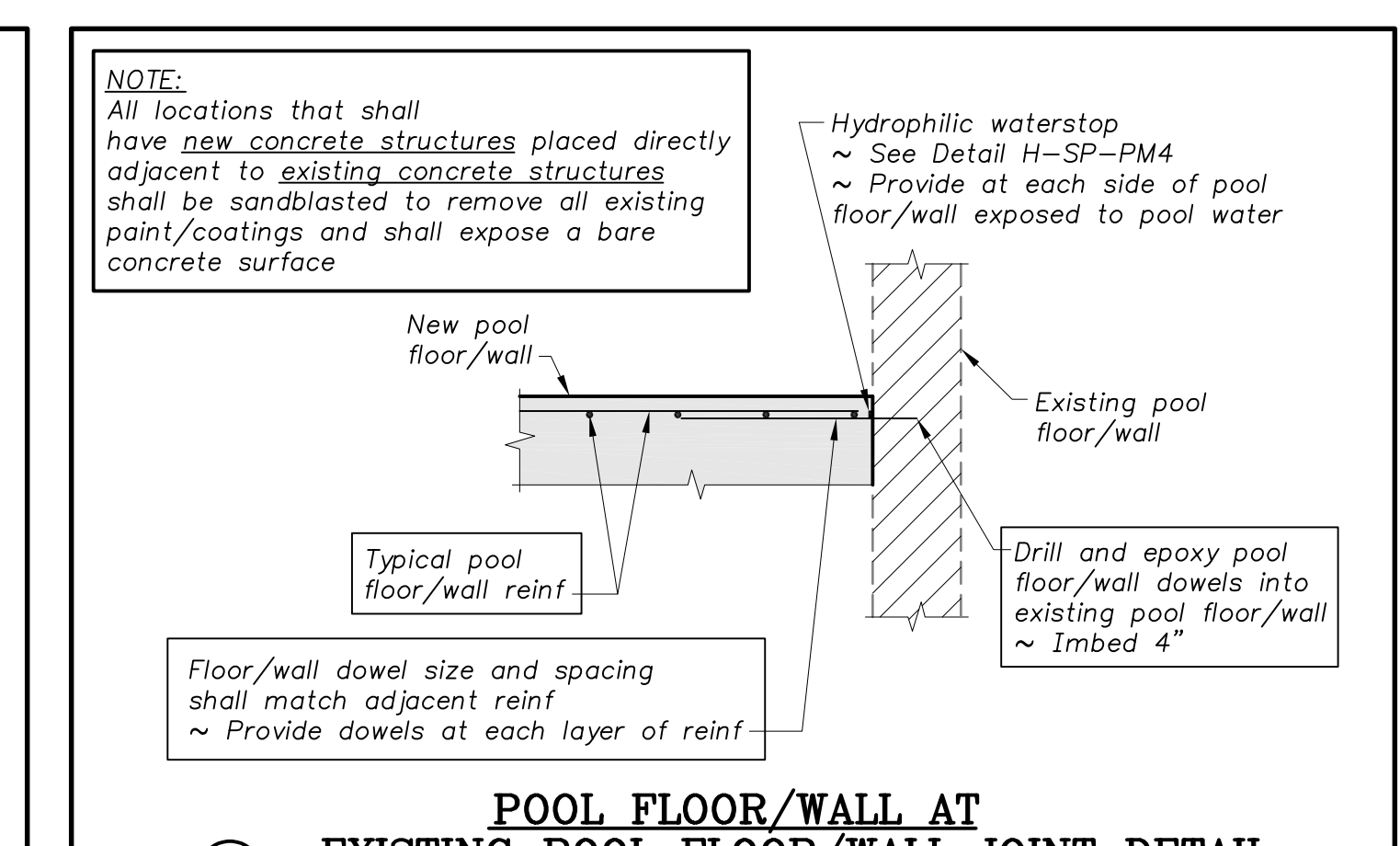
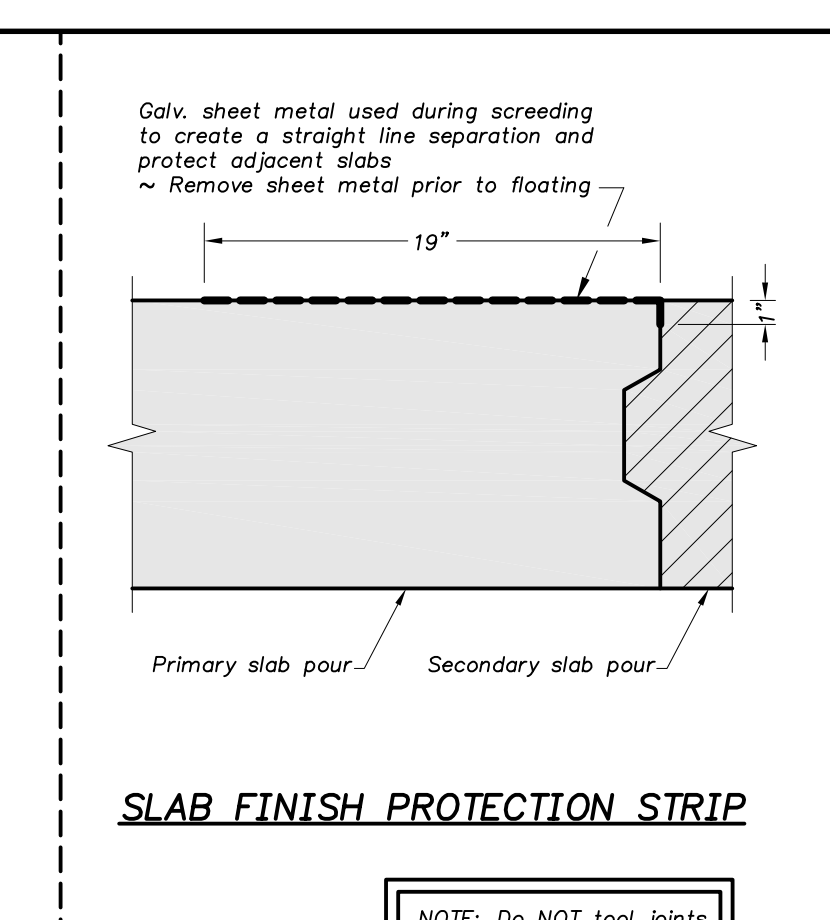
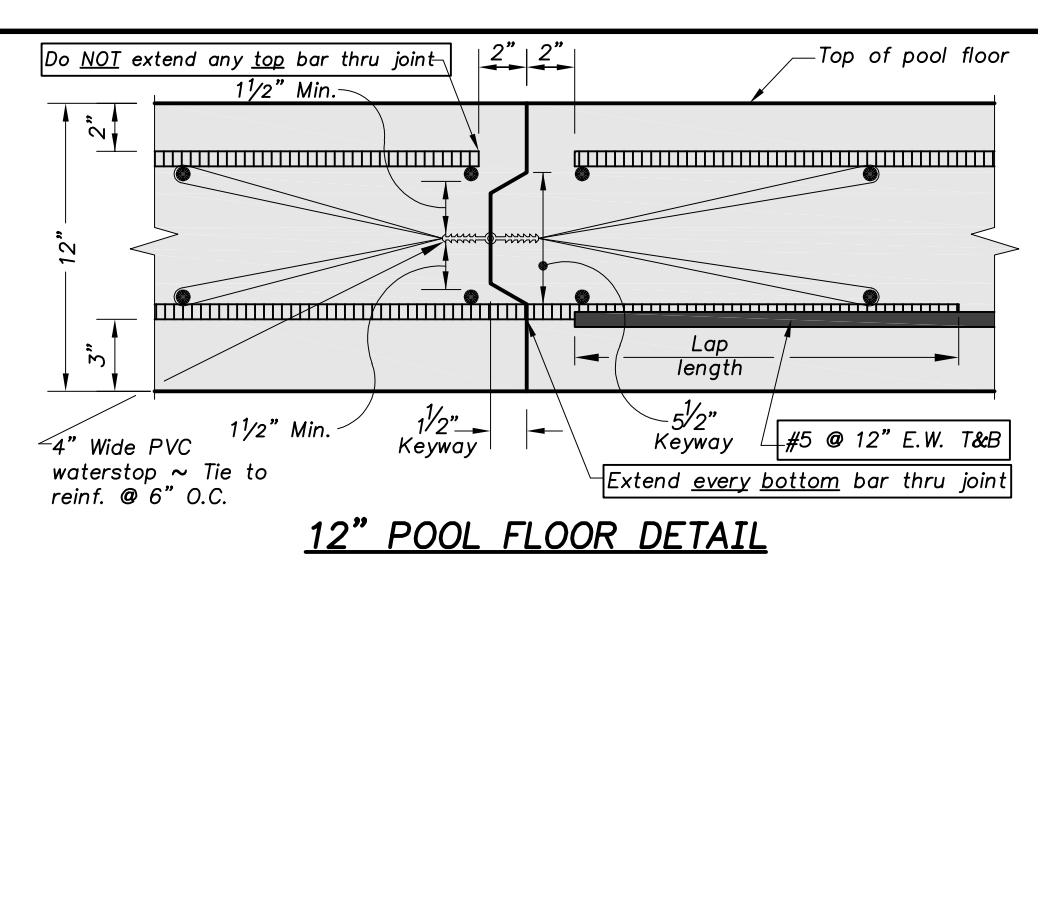
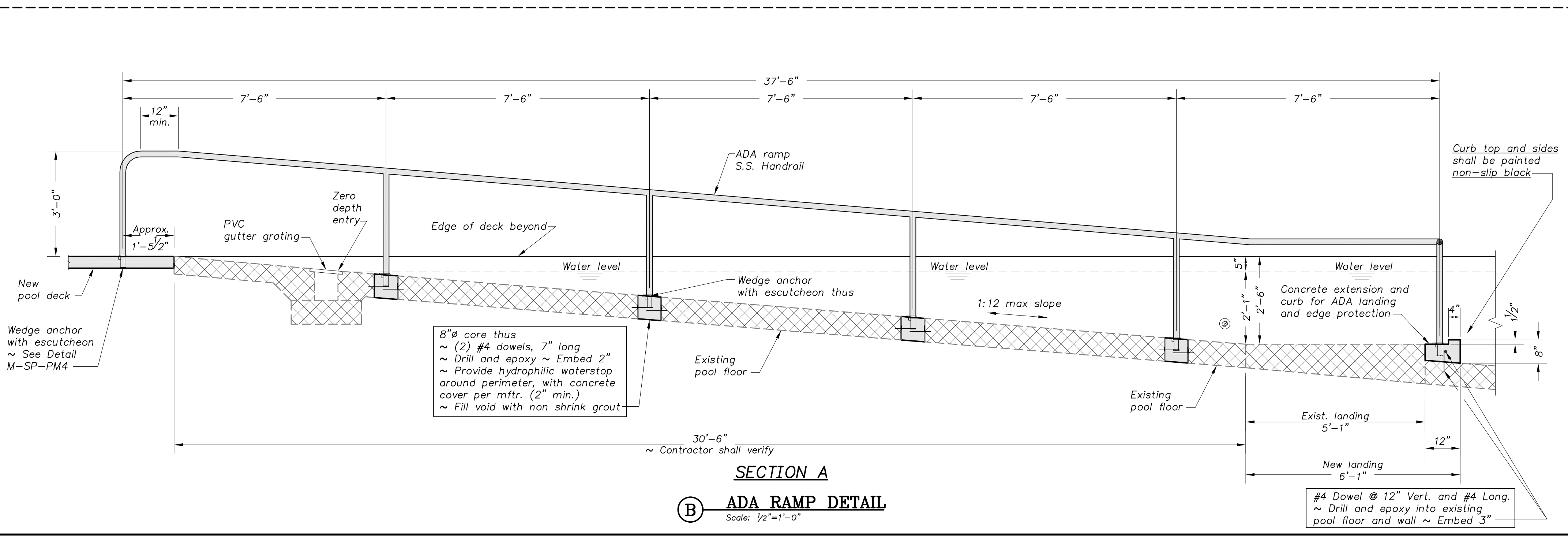
CONCRETE PROTECTION FOR REINFORCEMENT	
CONDITION	MIN. COVER (INCHES)
Concrete cast against and permanently exposed to earth, subgrade, or granular fill	3"
Formed or top surfaces exposed to weather, submerged, or in contact with earth, including stirrups, ties, or spirals	2"
Formed concrete not exposed to earth, liquids, or weather:	
Slabs, walls, and joists	1 1/2"
Beams and columns primary reinforcement, ties, stirrups, and spirals	1 1/2"

- NOTES:
- The above minimum concrete cover shall be provided for reinforcement unless noted otherwise.
 - Placing reinforcement tolerances:
 - For members less than or equal to 8" Tolerance = (± 1/8")
 - For members greater than 8" Tolerance = (± 1/2")

- GENERAL SHEET NOTES**
- All El.'s shown (-).xx', are distances down from indicated Water El.
 - All El.'s shown (+).xx', are distances up from indicated Water El.
 - Form savers may be used at Contractor's option
 - Hold waterstop 1 1/2" clear Min. from reinforcing. Tie to reinforcing/tie rod @ 6" O.C.
 - All form ties shall be 1 1/2" deep, cone snap type



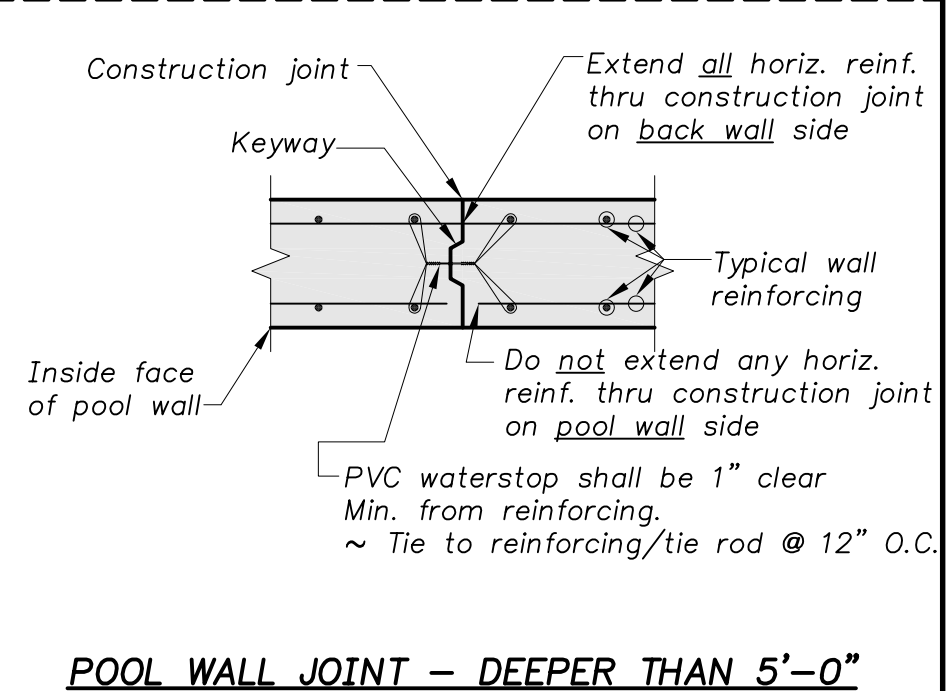
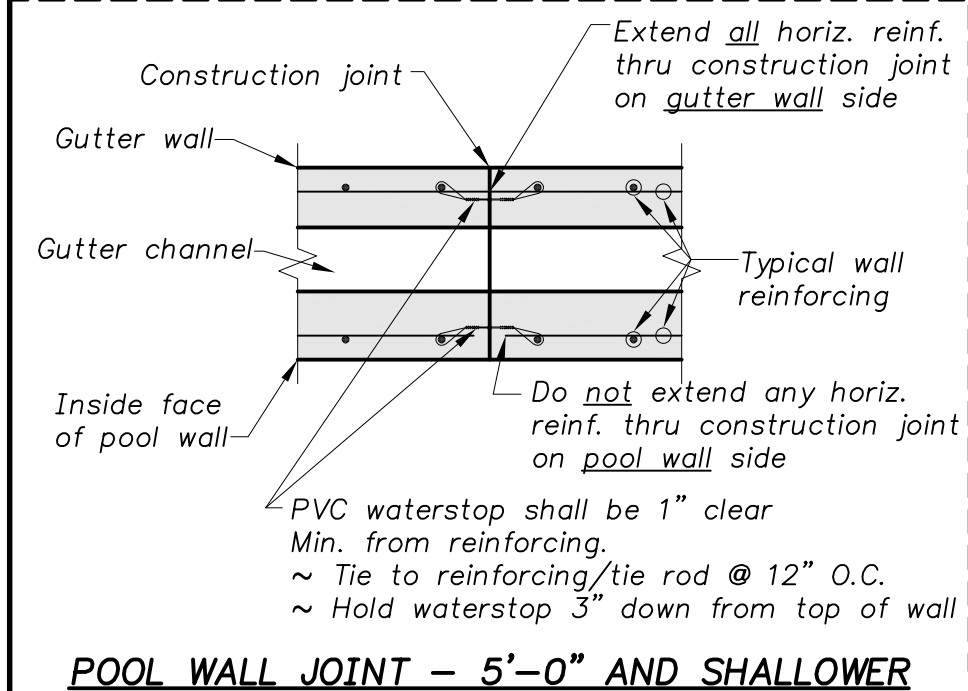
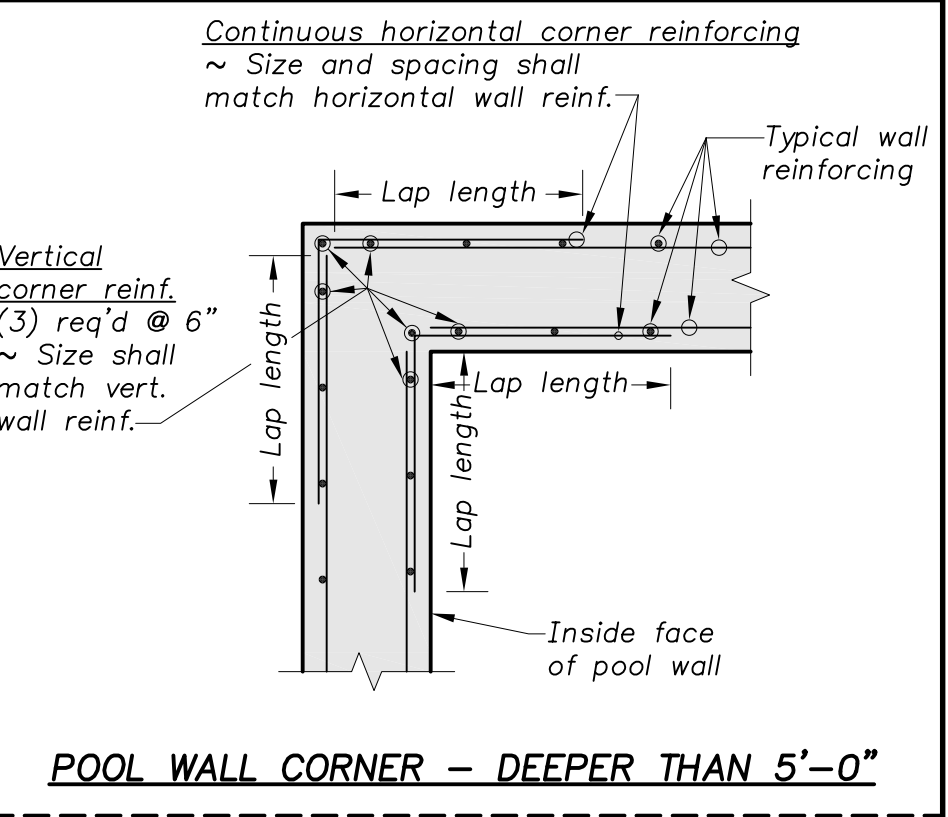
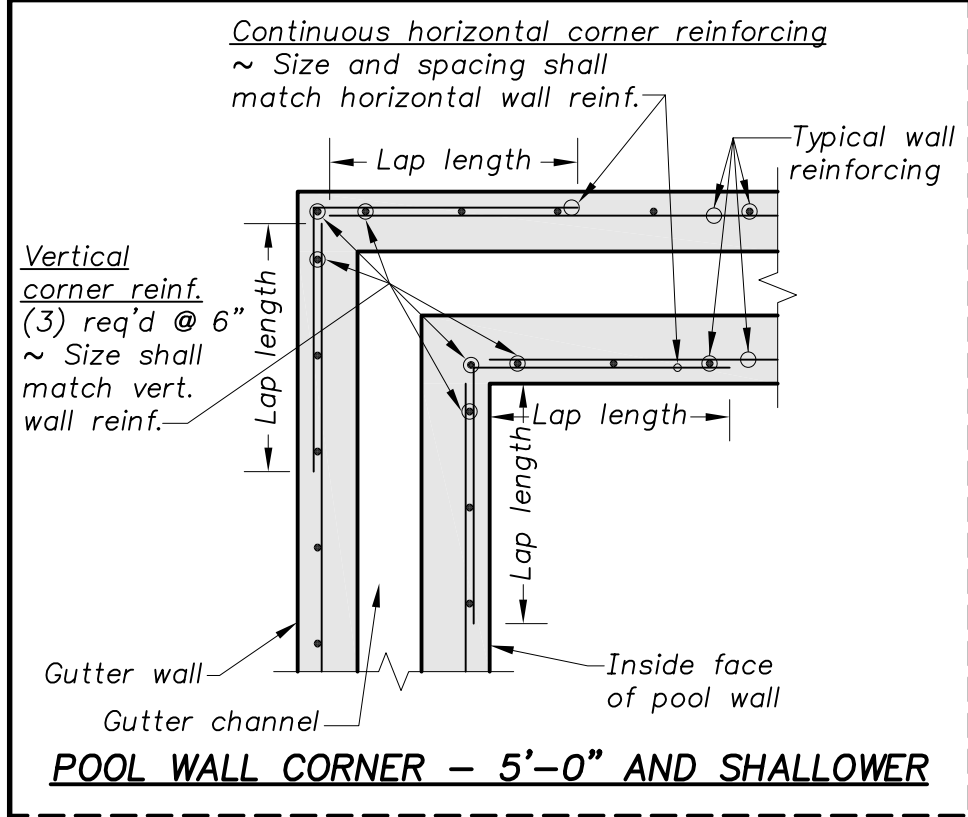
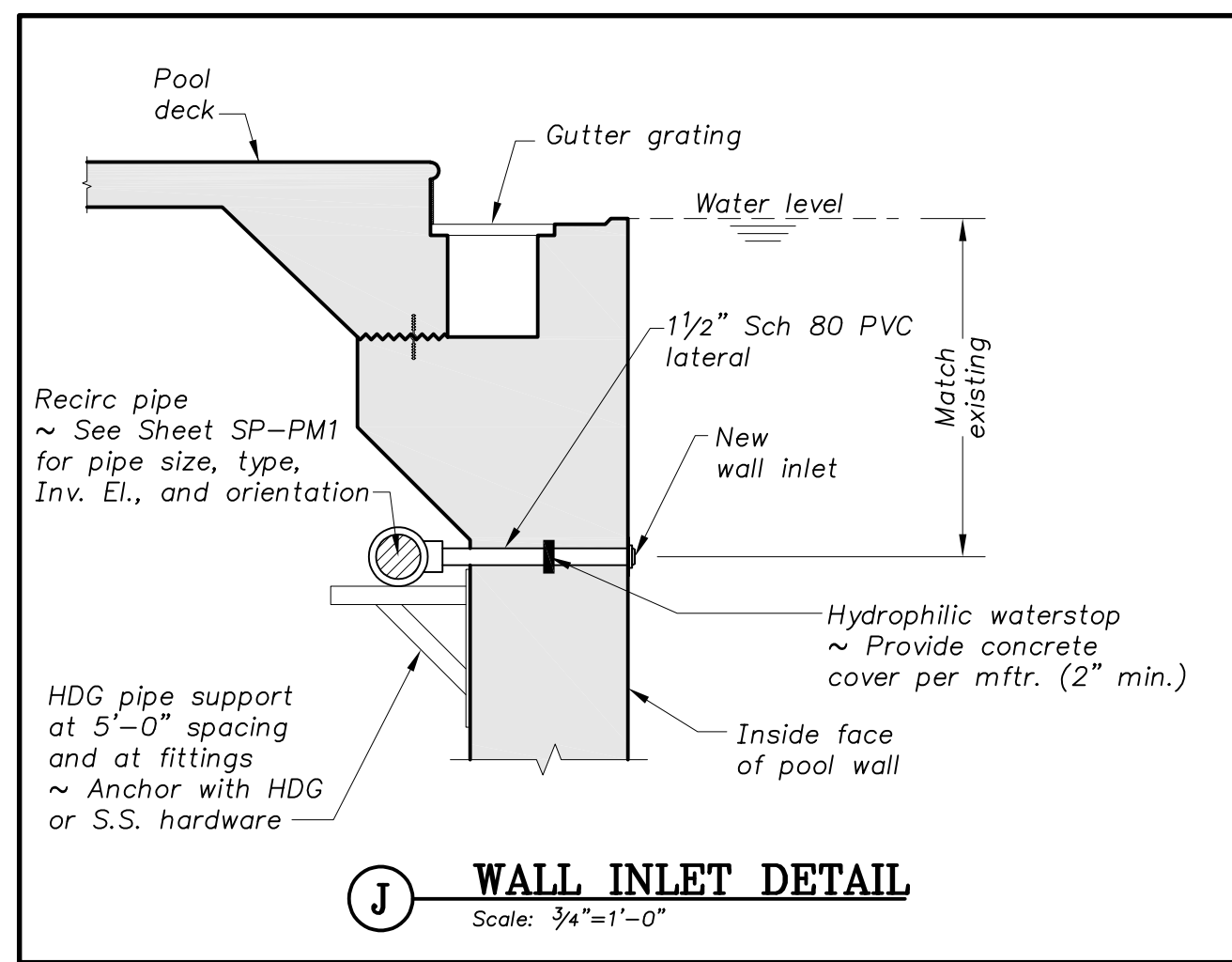
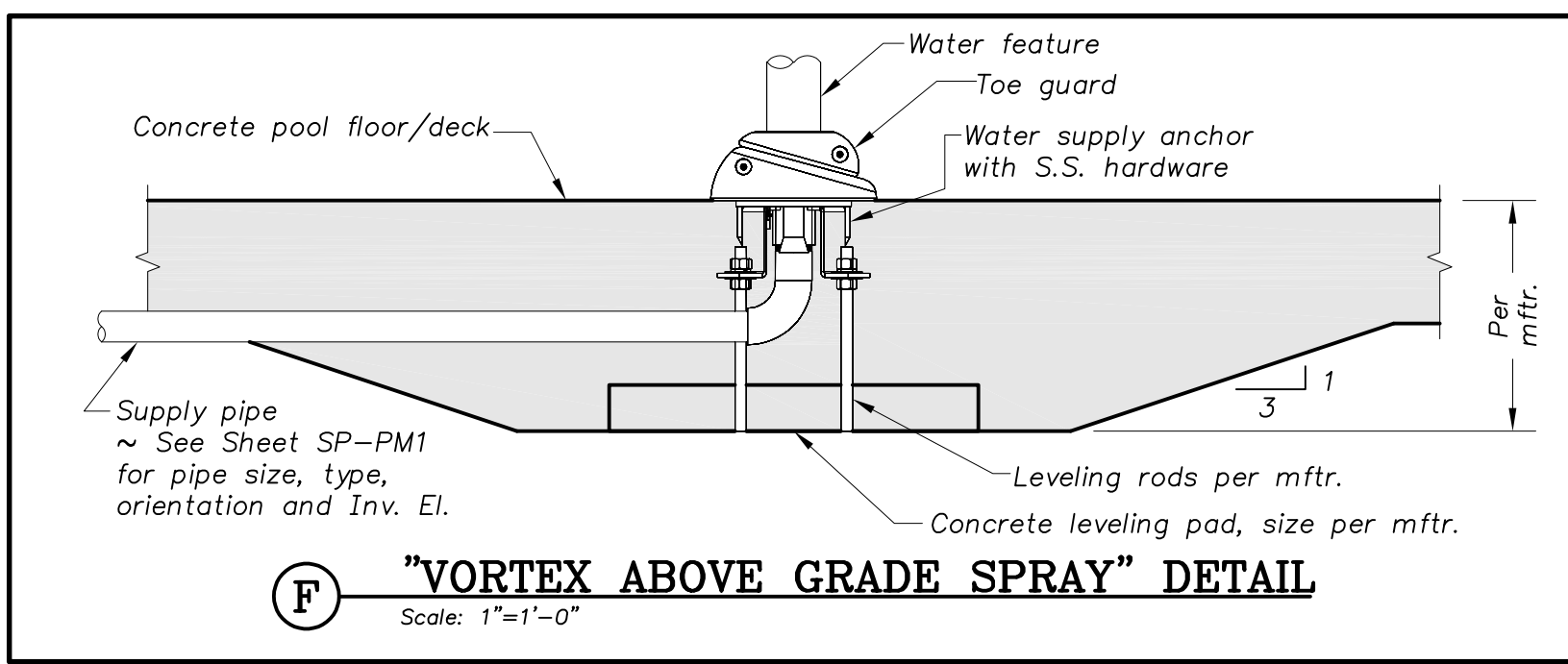
REINFORCING AND BONDING NOTE:
Reinforcing that is cast-in-place or drilled & epoxied, or other metallic items, shall be electrically bonded per: National Electrical Code, 680-26



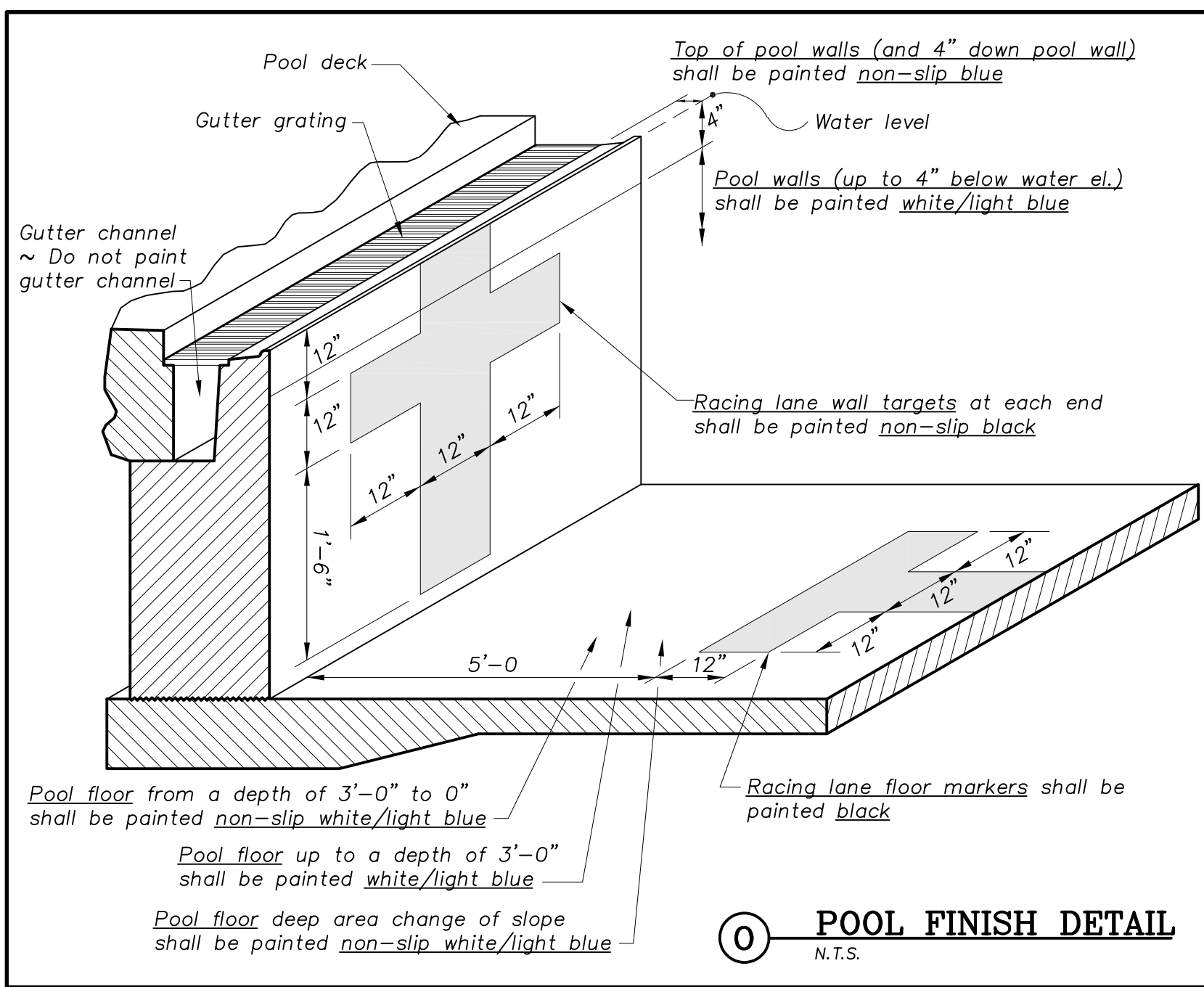
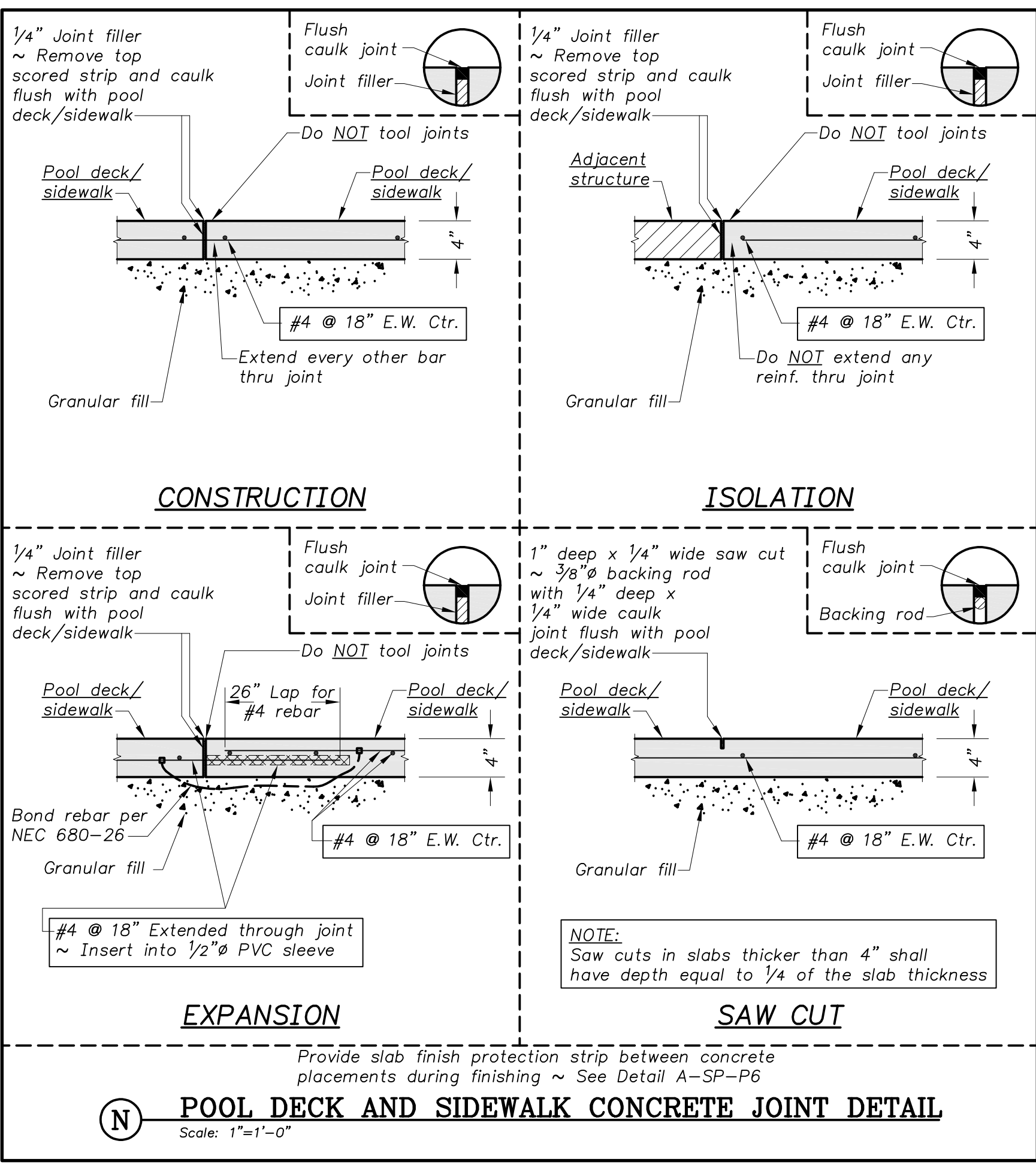
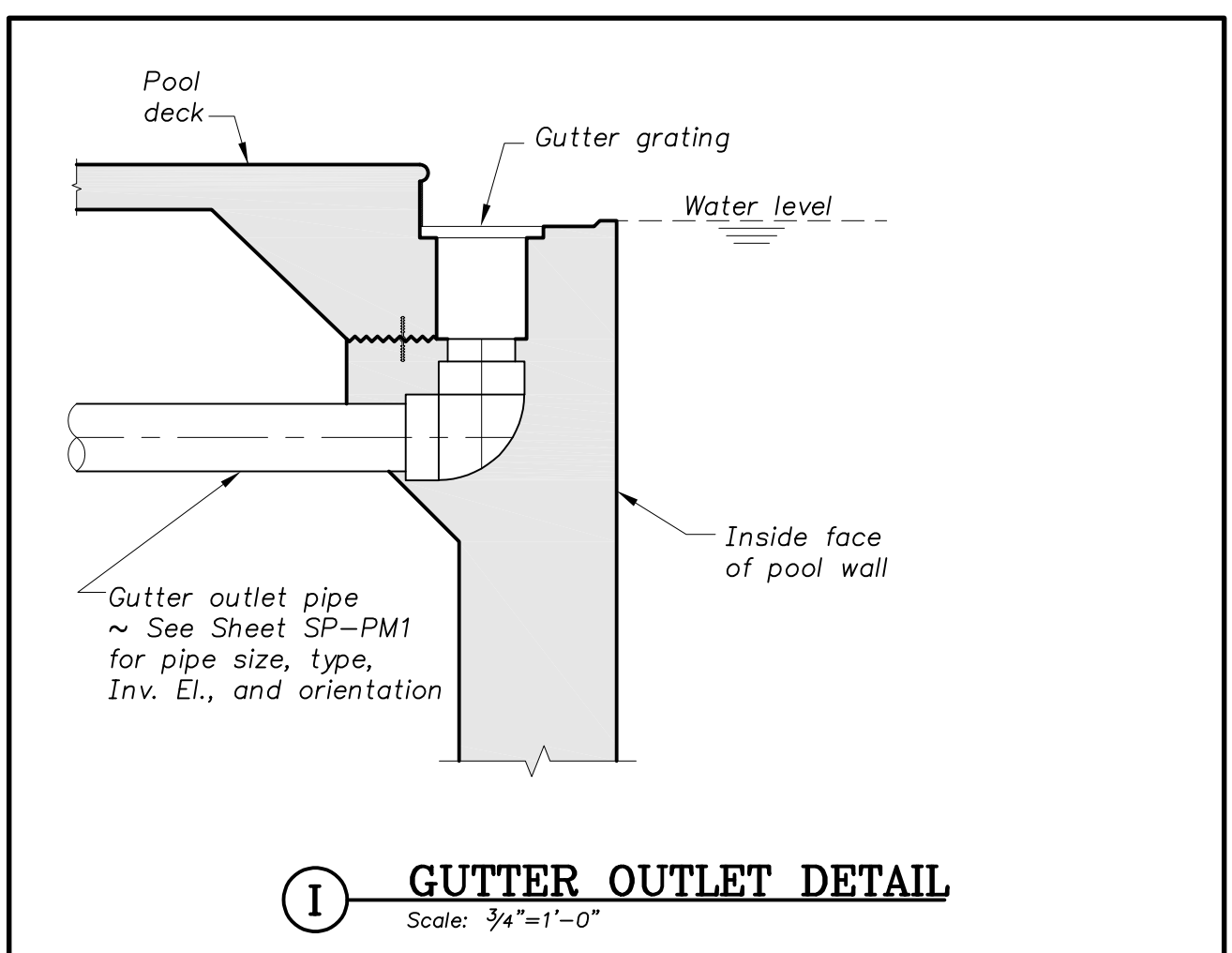
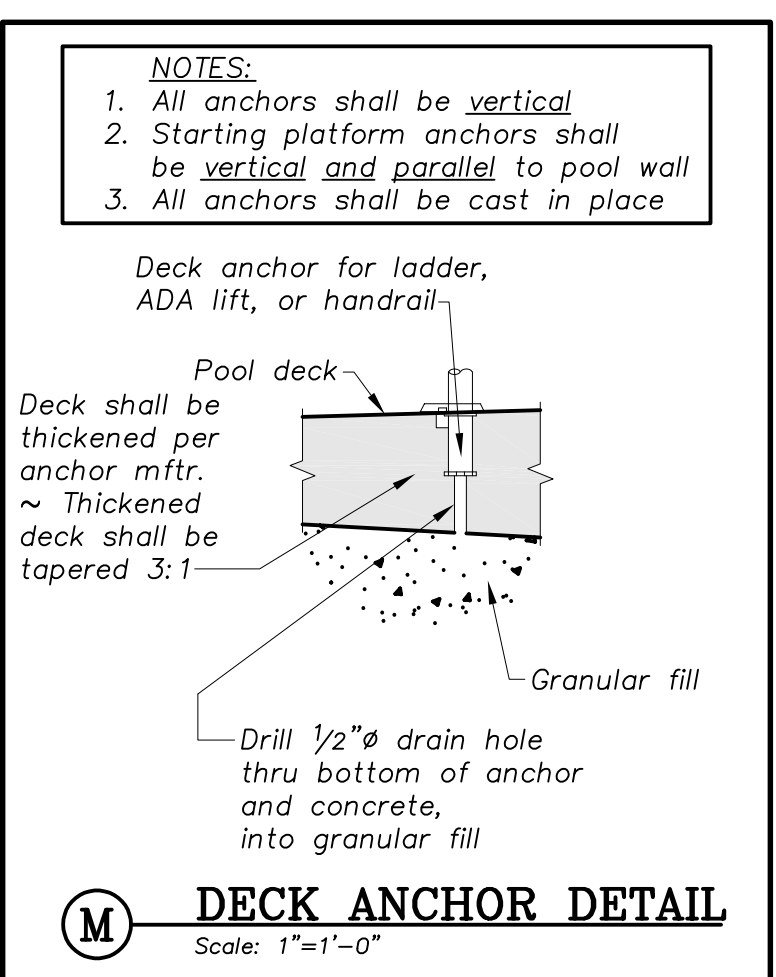
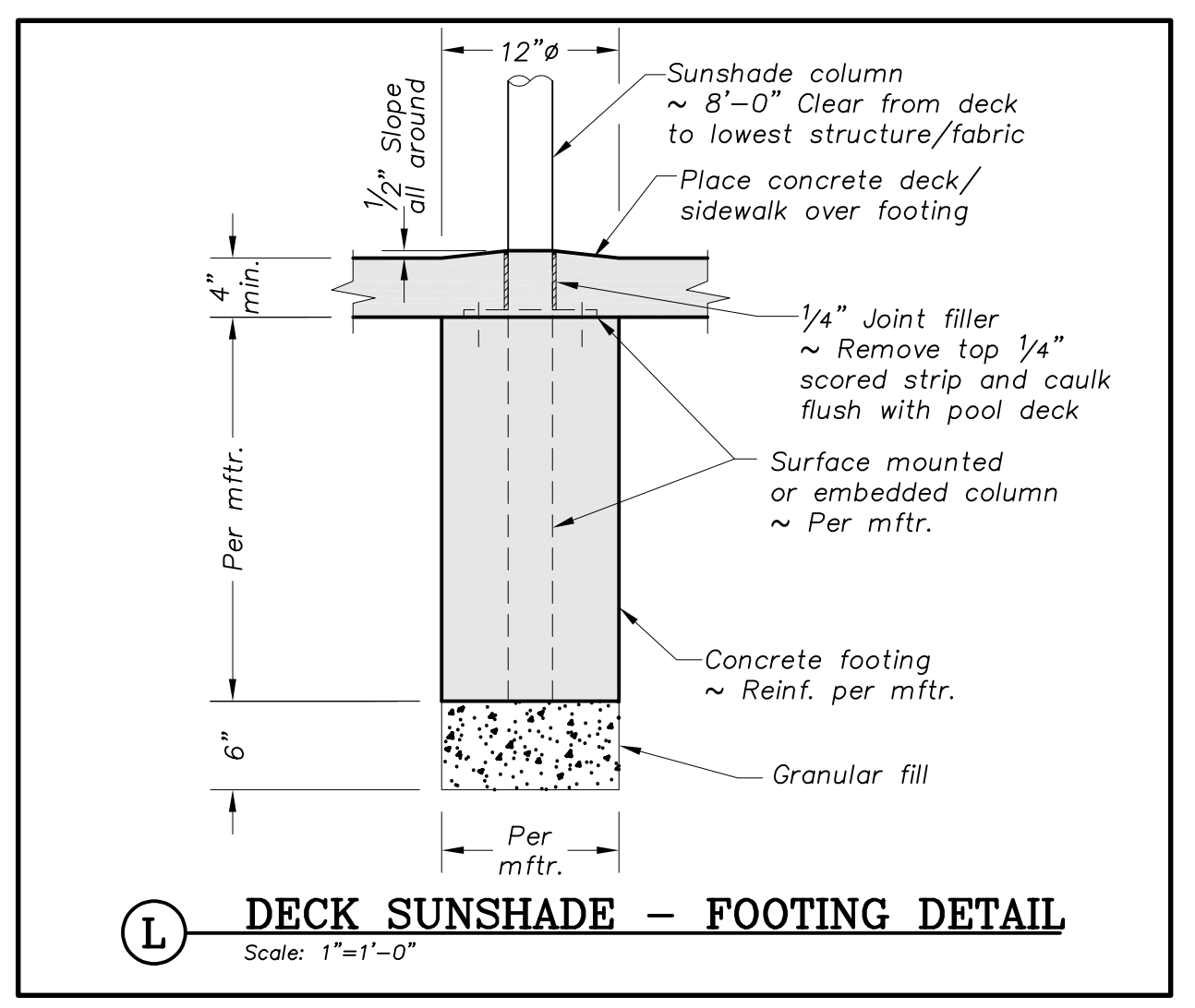
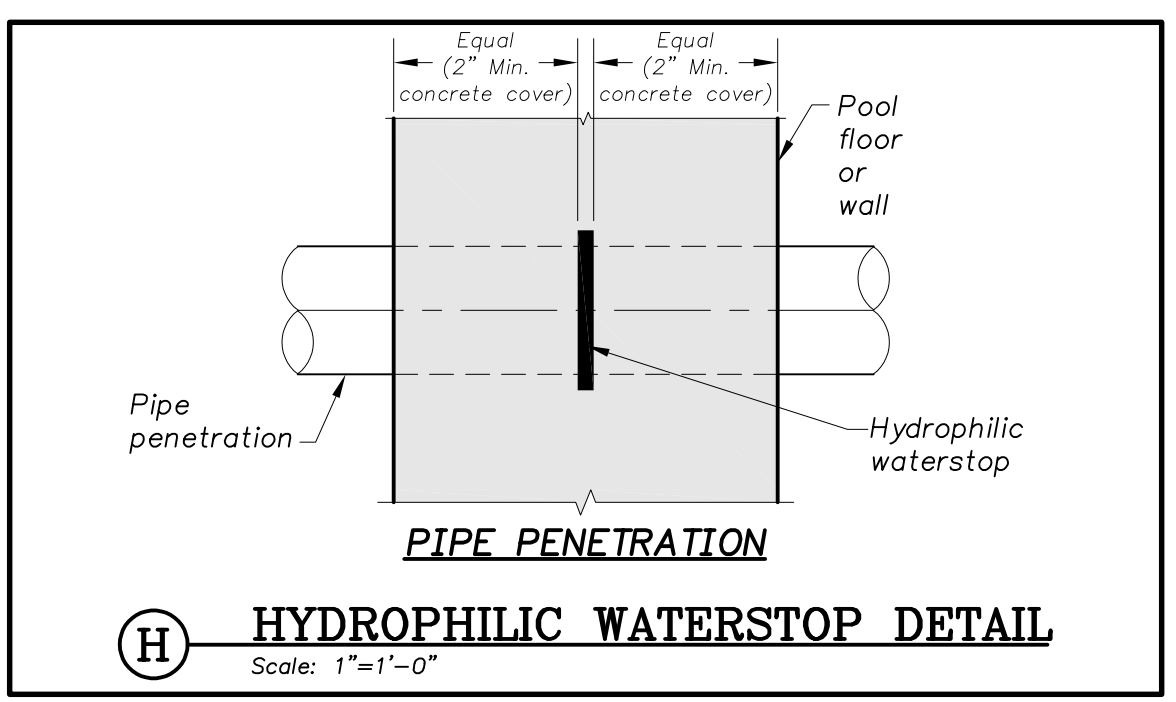
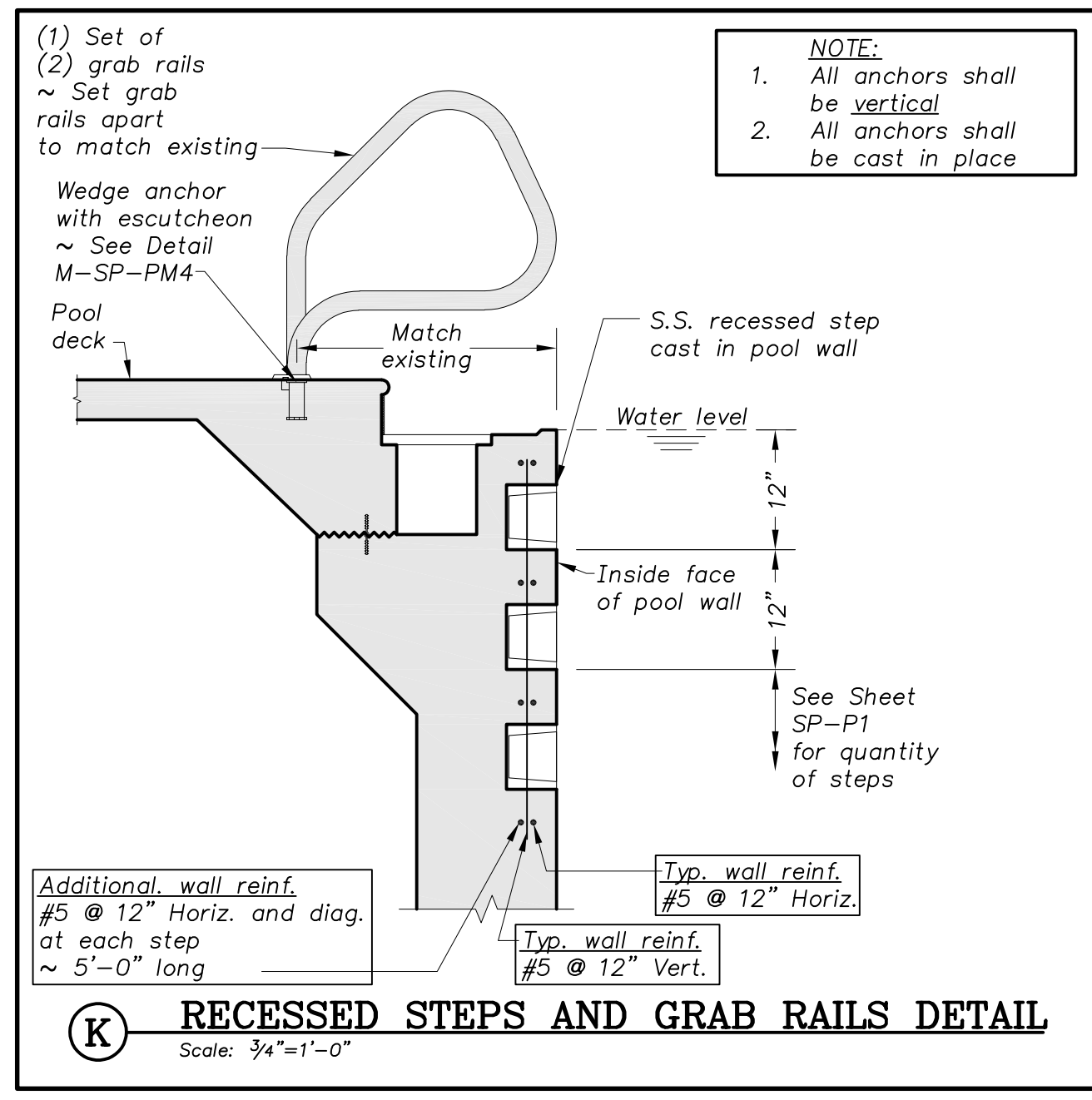
C POOL FLOOR DETAILS
Scale: 1/2"=1'-0"

D POOL FLOOR/WALL AT EXISTING POOL FLOOR/WALL JOINT DETAIL
Scale: 1/2"=1'-0"

E POOL FLOOR REPAIR DETAIL
Scale: 1"=1'-0"



G POOL WALL REINFORCING DETAILS
Scale: 1/2"=1'-0"



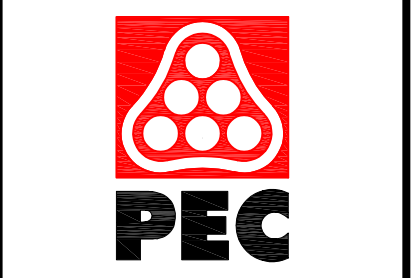
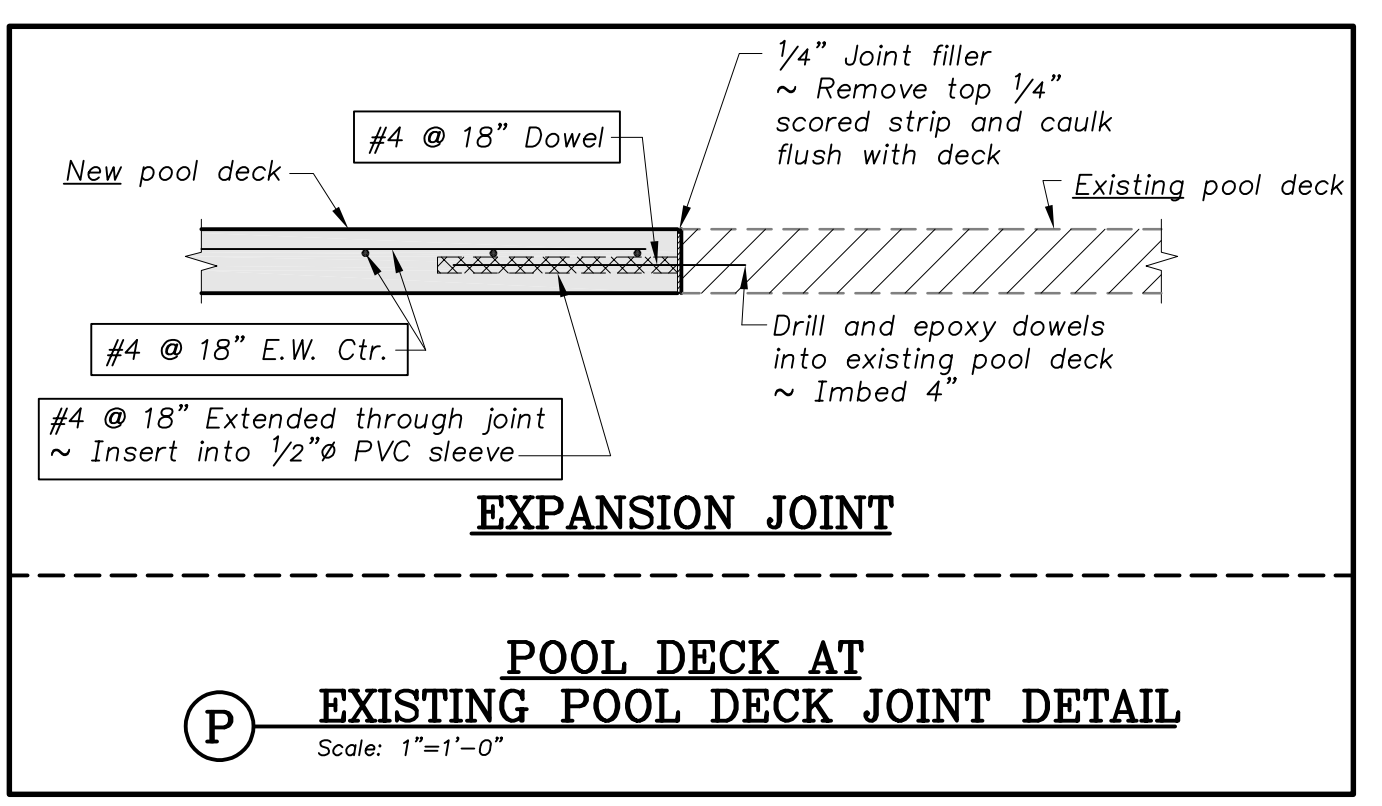
POOL FINISH NOTES

- Pool basin ~ See Detail at Left
- Stripe (4" wide) around main drain grate shall be painted black
- Warning stripe (4" wide) at 5'-0" depth on pool floor and walls shall be painted black ~ Non-slip black on floor
- ADA ramp landing curb ~ See Detail B-SP-PM3 for finish

Exposed formed surfaces shall have a grout cleaned finish.

All colors indicated are approximate and will be selected by Owner and included in project color schedule

Contractor shall provide (3) coats of each color



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

Seal: **JEFF A. BARTLEY**
LICENSE #15116
PROFESSIONAL ENGINEER
JEFF BARTLEY-ENGINEER
LICENSE #15116
Date: 09-27-21 Job #: 18-512
Drawn: SRS Checked: JAB
Issue: CONSTRUCTION DOCUMENTS

POOL AREA DETAILS

EXISTING FILTER AREA DEMO KEY NOTES

1. 10" Pool main drain return – Protect/remain exposed piping within surge pit
2. Protect/remain – 6" Pool gutter return
3. Demo/remove – Main drain float valve and related hardware
- a. Field verify – Location of valve stem operator wheel. Evaluate/reuse existing cored hole for new operator stem if possible. If existing hole is not reusable, fill-in existing hole with non shrink grout after valve stem removal
4. Demo/remove – 6" Recirc pump suction
5. Demo/remove – Recirc pump inline basket strainer and related valves
6. Demo/remove – Recirc pump on concrete base
7. Demo/remove – Recirc pump vertical discharge piping to filter
8. Demo/remove – Pool filter mechanical equipment identified unless otherwise noted or needed for complete operation of pool system
9. Cut/remove – Partial of 6" pool return supply floor stub up. Allow enough length of piping to remain for reconnection for new filter system
- a. 6" Pool return piping. See sheet SP-PM1 for continuation
10. Protect/remain – 6" Features pump suction piping and related valve for reconnection
11. Demo/remove – Features pump and inline basket strainer
12. Cut/remove – Partial of 6" features supply return. Allow enough length of piping to remain for reconnection for new pump if possible
13. Demo/remove – Pump pit stairs
14. 6" Features supply return. See SP-PM1 sheet for continuation
15. Protect/remain filter backwash floor sink
16. 8" Below grade filter backwash piping routed over to backwash pit
17. 8" Below grade sanitary sewer piping
18. Approximate location and connection of 4" drain line from backwash pit to existing sanitary sewer. Field verify
19. Protect/remain – Existing drinking fountains
20. Protect/remain – 3" Below grade drinking fountain drain line, discharged into pump pit sump pump area
21. Protect/remain – 6" Vent piping connection from backwash pit.
22. Protect/remain – 2" Vent piping connection from backwash pit
23. Demo/removed – Existing pump pit sump pump to include related valves and piping
24. Demo/removed – Existing surge pit sump pump to include related valves and piping
25. Demo/removed – Existing manhole sump pump to include related valves and piping
26. Protect – Existing filter area manhole
27. Demo/remove – Surge pit cover grating to include corroded access hatch frame and related hardware
28. Demo/remove – Acid feeder and related piping
29. Demo/remove – Chlorine feeder and related piping
30. Demo/remove – Wall mounted emergency eyewash station
31. Approximate location of exposed plumbing piping on wall
32. Approximate location of domestic water header drain piping and hose bibb connection discharge into pump pit sump basin
33. Approximate location of surge pit manual fill discharge with air gap above floor
34. Approximate location domestic water supply to drink fountains
35. Approximate location of electrical pump control panels on wall
36. Protect/remain – Existing pump pit covered grating to include guardrails and related grating supports
37. Existing surge and pump pit walls and floors
38. Existing building bathroom areas and related equipment
39. Existing exterior backwash pit structure
40. Existing building walls

FILTER AREA IMPROVEMENT KEY NOTES

1. 10" New pool gutter return – See Sheet SP-PM1 for pipe route and connection
2. 10" Existing main drain return – See Sheet SP-PM1 for pipe route and connection
3. Isolation butterfly valve
4. 8" Main drain float valve
5. Provide S.S. operator extension stem with nut at top of extension for submerged valves.
~ Support extension guide as req'd. Anchor with S.S. expansion anchors
~ Provide T handle valve key to be used
~ Gear operator shall **NOT** be submerged in water
6. Provide cored hole for operator stem if existing hole cannot be reused.
7. Surge pit low water cut-off switch with baffle ~ Set float at 24" above recirc pump suction
8. 16"x16"x16" CMU block step mortared in place
9. 8" New recirc pump suction piping
10. 6" Existing features pump suction piping
11. Throttling Butterfly Valve ~ Wheel operated valve at supply lines (water features, pool recirc, backwash)
12. New surge pit sump pump with related valves and discharge piping
13. New pump pit sump pump with related valves and discharge piping
14. Check valve
15. Pipe saddle
16. ¾" End of season drain piping route over to sump area
17. New recirc pump on concrete base – See Detail B-SP-F4
a. 6" Pool recirc pump discharge/filter influent piping
18. Magmeter flowmeter – Rotate display for easy reading
~ Provide signage by magmeter ~ Recirc rate = ____GPM ~ Backwash rate = ____GPM
19. Pipe support – See Details D,E,H-SP-F4
20. 6" filter face piping with valve linkage system
21. Filter pressure gauges mounted to filter face piping with S.S. hardware
22. 6'-0" ø Steel vertical dual cell filter
~ Furnished by Owner (N.I.C) (Filter, face piping, valves, gauges, media, etc)
~ Installed by Contractor
23. Air release valve with bypass drain line – See Detail I-SP-F4
24. 6" Filter backwash piping. Set discharge of piping 3" above floor sink
25. 6" Filter effluent piping
26. Connection TO Pool Chemical Controller – See Details C,D-SP-F5
a. Connection TO Calcium Hypochlorite feed system – See Details B,D-SP-F5
b. Connection FROM Chemical controller routed over to pool fill funnel – See Detail C-SP-F5
27. Connection FROM Acid Feeder System – See Details A,D-SP-F5
28. Connection FROM Calcium Hypochlorite feed system – See Details B,D-SP-F5
29. Floor mount pipe support, saddle type
30. Flanged connection to existing piping
31. 6" Pool return piping – See PM1 sheet for continuation
32. Inline basket strainer on concrete base ~ Provide ½" manual air bleed valve in lid
33. Reducing flexible connector – Eccentric with flat side up on pump suction (horizontal). Concentric on pump discharge (vertical). Provide spacer flanges as req'd
34. Pump connection – See Detail C-SP-F4
35. Features pump on concrete base ~ See Detail B-SP-F4
a. 3" Features pump suction/discharge
36. 6" Existing water features pump discharge/return piping – See PM1 sheet for continuation

37. Pool chemical controller and sensor box – See Detail C-SP-F5
~ Furnished by Owner (N.I.C)
~ Installed by Contractor
38. Calcium Hypochlorite chemical feed system – See Detail B-SP-F5
39. Muriatic Acid chemical storage drums and feeder system – See Detail A-SP-F5
40. Outline of ventilation suction piping down low – Refer to MEP Sheet for further information
41. 4" CMU block walls alcove area for chemical storage match existing exterior wall height
42. Emergency eyewash station
43. Water supply to emergency eyewash station– Refer to MEP Sheet
44. Water heater – Refer to MEP Sheets for further information
45. Provide cored hole into slab for funnel stand pipe. Fill annular space around stand pipe with non shrink grout
46. 8"x 6" Funnel stand pipe cored drilled into slab – Set top of funnel 16" above pump pit curb wall
47. 2" Pool manual fill with 3" air gap above funnel
48. 1" Wet pit mechanical auto fill supply piping tapped from 3" manual fill
49. Mechanical auto fill device with float ~ Set float at 30" above recirc pump suction
50. 1" Mechanical auto fill discharge piping with 6" air gap above pit wall
51. Ball valve
52. Eccentric reducer on pump suction with flat side on top/Concentric reducer on pump discharge
53. Provide 1½" thick FRP grating covering over surge pit access
54. Provide S.S. hinges to include S.S. hardware per mfr.
55. Guardrail with safety chain – See Detail G-SP-F4
56. Floor socket pump hoist anchor
57. Manhole steps @ 16" O.C.
58. New manhole sump pump with related valves and discharge piping
59. Drain valve at low point
60. Pipe sleeve penetration – See Detail J-SP-F4

FILTER DATA												
Pool	Volume (gallons)	Recirc Rate (GPM)	Filter Size (dia.)	Quantity or Cells	Filter Area Each (s.f.)	Filter Area Total (s.f.)	Filter Loading Rate (gpm/s.f.)	Average Turnover (hours)	Backwash Rate at 15 gpm*s.f. (gpm)	Backwash Time (minutes)	Backwash Volume Each (gal.)	Backwash Volume Total (gal.)
Main	144,660	600	6.00	2	28.26	56.52	10.62	4.02	424	5	2,120	4,239

PUMP DATA								
Location	Pump Description	Flow (gpm)	TDH (ft.)	Shut-off Head (max.) (ft.)	Efficiency +/- 5%	HP	RPM	VFD
Pool	Recirc	600	60	26	83	80	15	1,800
Pool	Water Features	100	34	15	--	--	5	2,500

MAXIMUM PIPE SUPPORT SPACING (Feet) **			
Pipe Size	Sch 80 PVC	Ductile Iron	Copper (L&K)
1/2"	4.5	--	5.0
3/4"	4.5	--	5.0
1"	5.0	--	6.0
1 1/4"	5.0	--	7.0
1 1/2"	5.5	--	8.0
2"	6.0	--	8.0
2 1/2"	6.0	--	9.0
3"	7.0	--	10.0
4"	7.5	*	12.0
5"	--	--	13.0
6"	9.0	*	14.0
8"	9.5	*	16.0
10"	10.0	*	18.0
12"	11.5	*	19.0
14"	--	*	--
16"	--	*	--

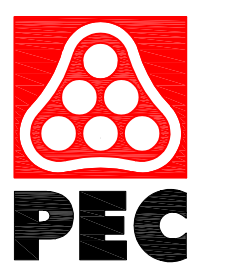
* Maximum support spacing of 20 Ft. Provide a minimum of 1 hanger as close as practical to the joint behind the bell, and at changes of direction and branch connections.
** Unless shown or noted otherwise

PIPING NOTES

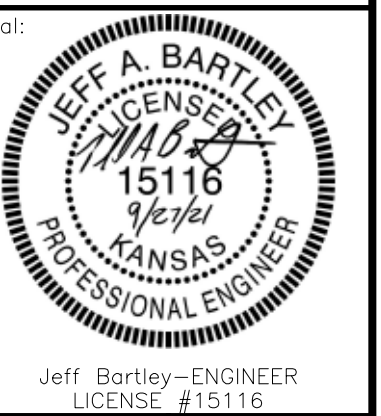
1. Pipe type shall be Sch 80 PVC unless noted otherwise
2. Pipe type shall be CPVC for all piping downstream of pool heaters
3. Refer to Pool Mechanical Sheets for pipe types beyond the building
4. Pipe sizes are identified in inches on the drawings
5. Pipe connection hardware shall be S.S. within Pool Mechanical Room
6. Contractor shall provide and install uniflanges/unions as req'd
7. Sch 80 PVC fittings may be solvent weld or flanged at Contractor's option
8. All piping and fittings at equipment (filters, pumps, valves, etc.) shall be flanged
~ PVC flanges at fittings shall be male type as shown
9. 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
10. All pipe supports shall be 316 S.S. or FRP
11. All hardware shall be S.S.
12. Provide air release valve at all high loops in piping
13. All piping shall slope to drain by gravity
14. Provide drain valve at all low points in piping
15. Provide drain valve at normally closed solenoid valve or check valve, or provide true unions, to allow for winter drainage
16. All piping through concrete structures shall be cast-in-place
~ No pipe sleeves or coring allowed
17. Provide compound pressure gauge on all pump suction
18. Provide pressure gauge on all pump discharges



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Kansas STATE CERTIFICATE OF AUTHORITY #E-990



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

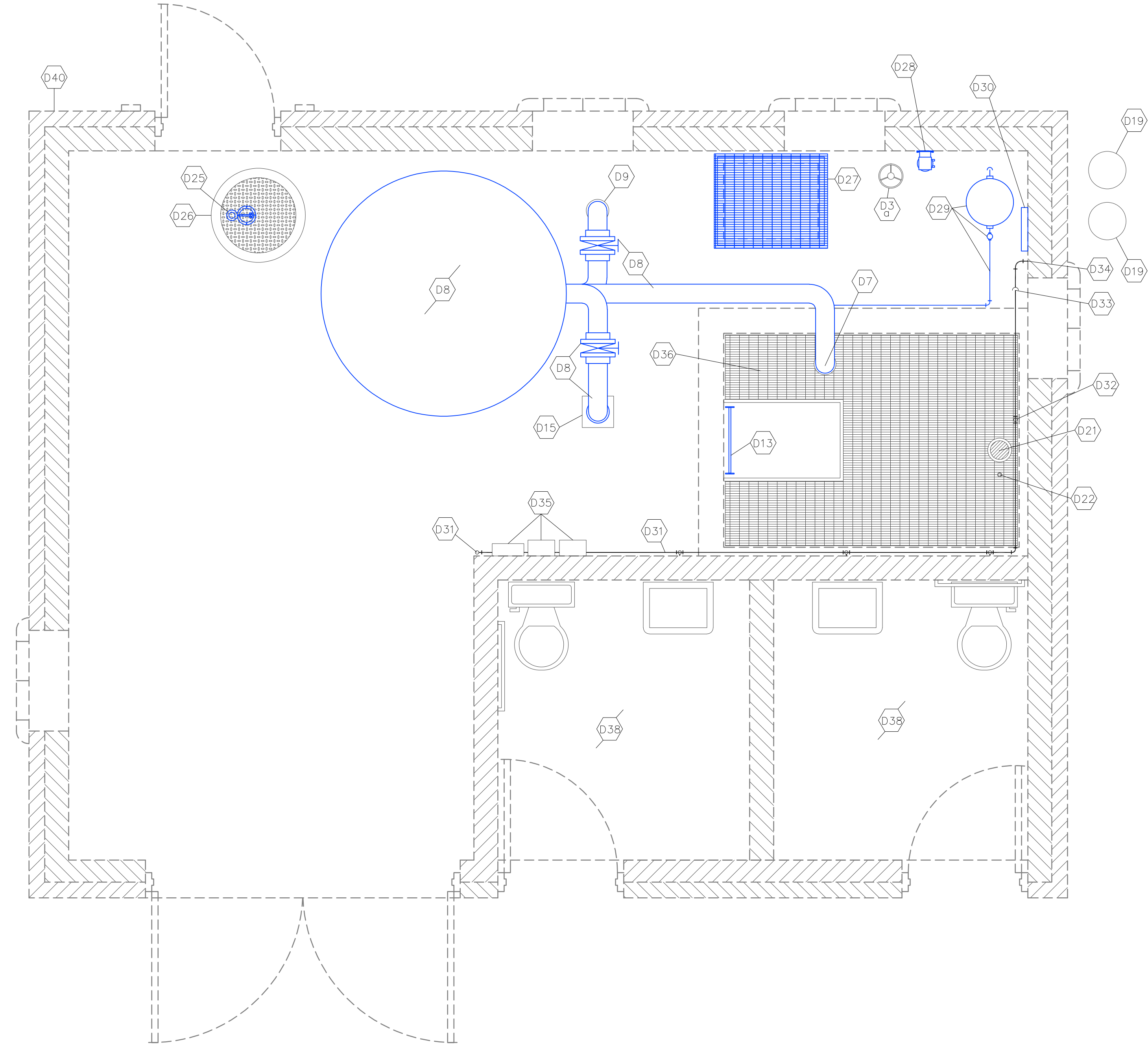
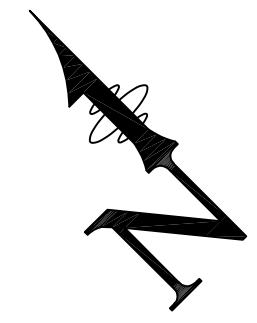


Date: 09-27-21 Job #: 18-512
Drawn: CJB Checked: JAB

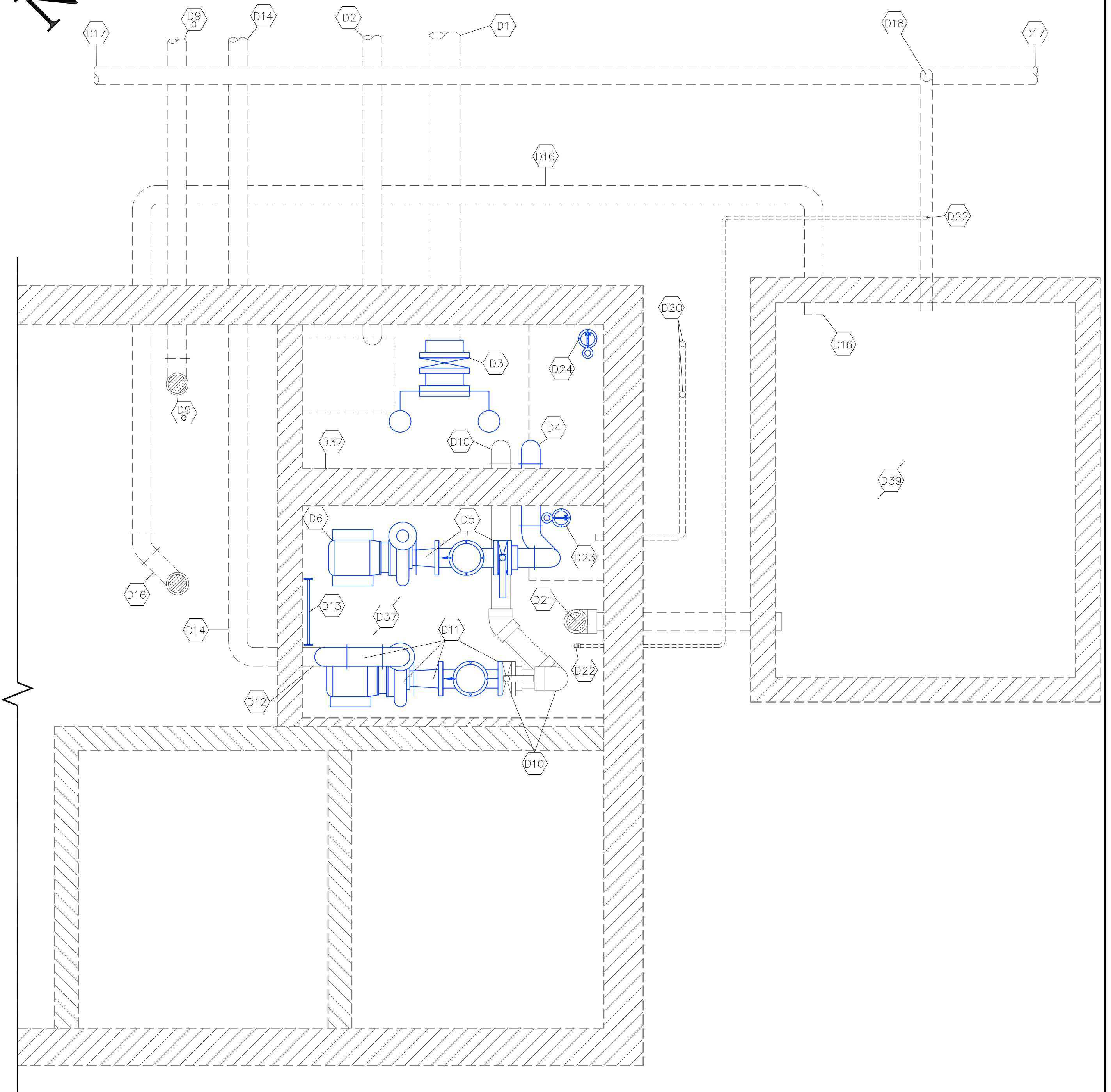
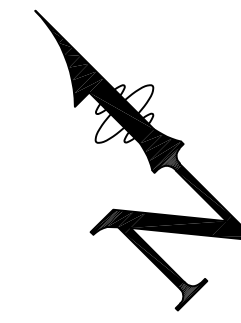
Issue: CONSTRUCTION DOCUMENTS

FILTER AREA IMPROVEMENT KEY NOTES AND DATA

SP-F0



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



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



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley-ENGINEER
LICENSE #15116

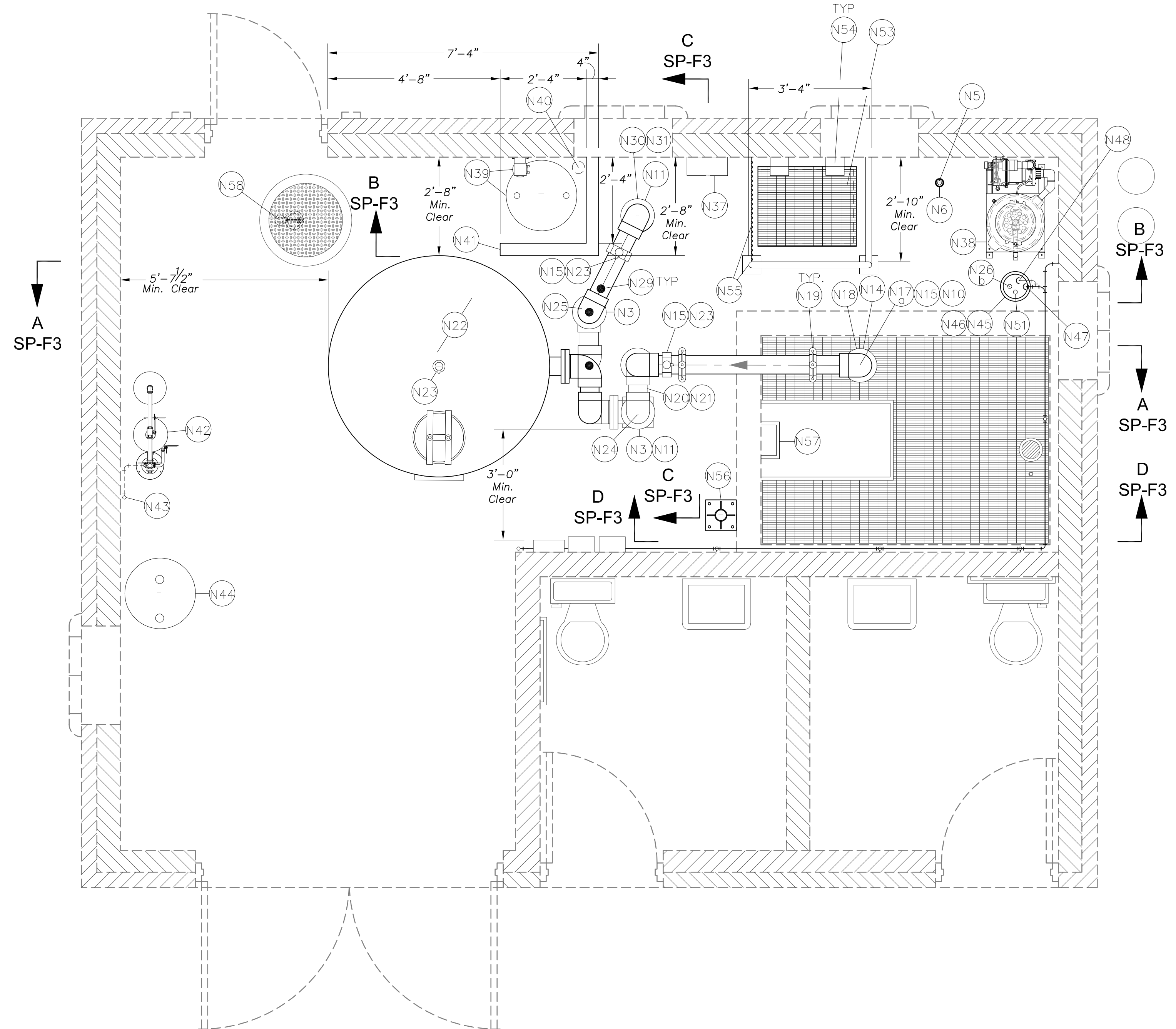
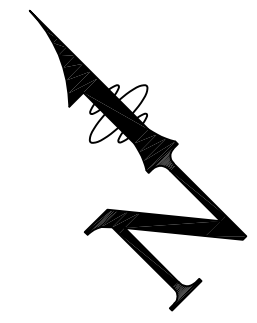
Date: 09-27-21 Job #: 18-512

Drawn: CJB Checked: JAB

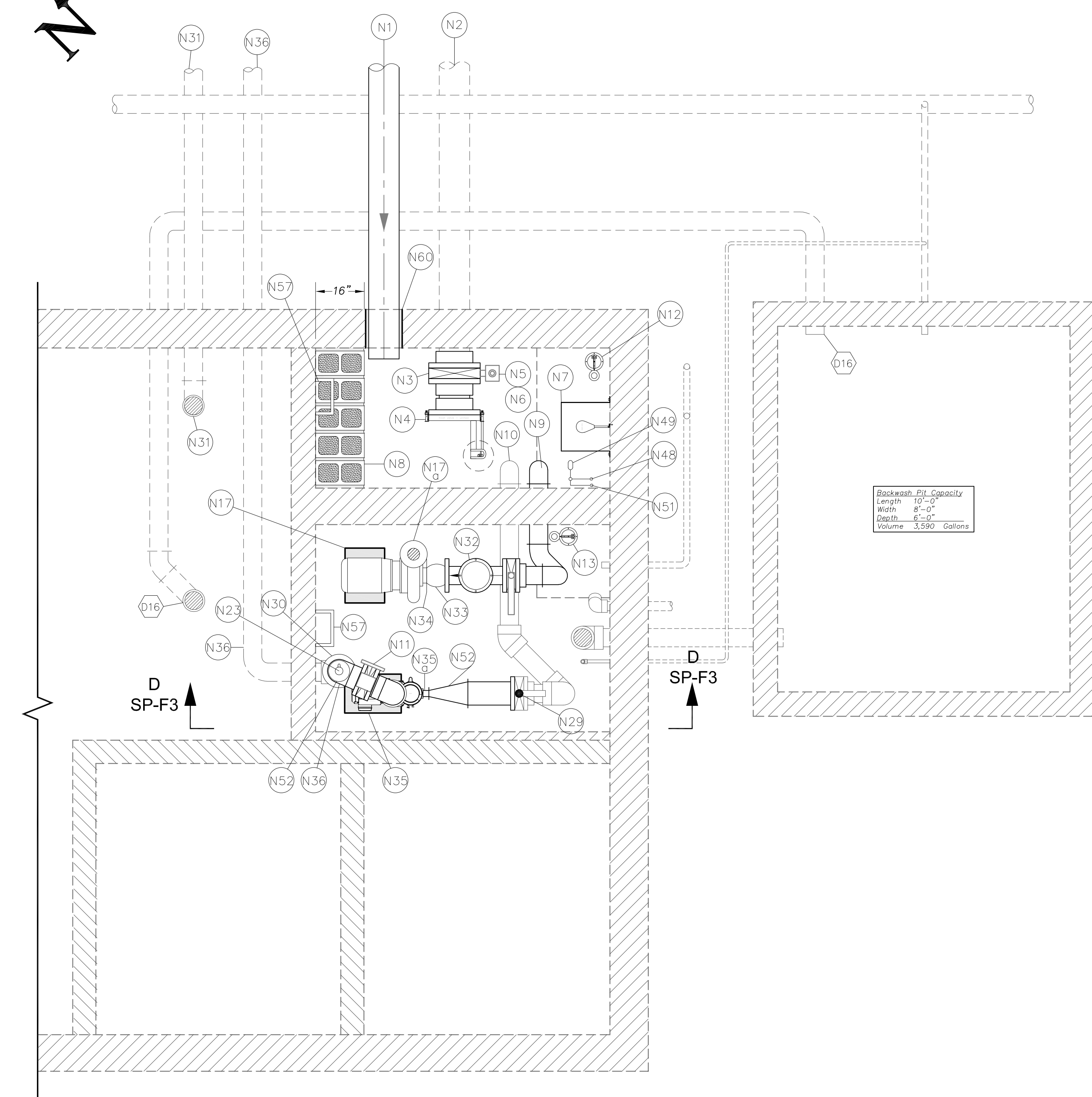
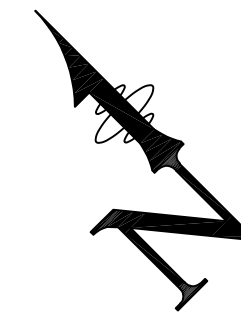
Issue: CONSTRUCTION DOCUMENTS

FILTER AREA
DEMO
PLAN AND
PLAN SECTION

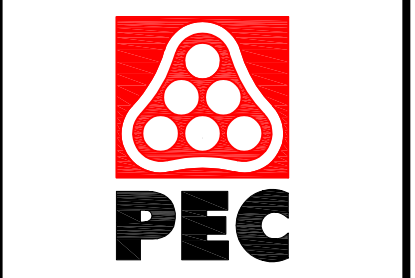
SP-F1



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



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



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley-ENGINEER
LICENSE #15116

Date: 09-27-21 Job #: 18-512

Drawn: CJB Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

**FILTER AREA
IMPROVEMENT
PLAN AND
PLAN SECTION**

SP-F2



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley - ENGINEER
LICENSE #15116

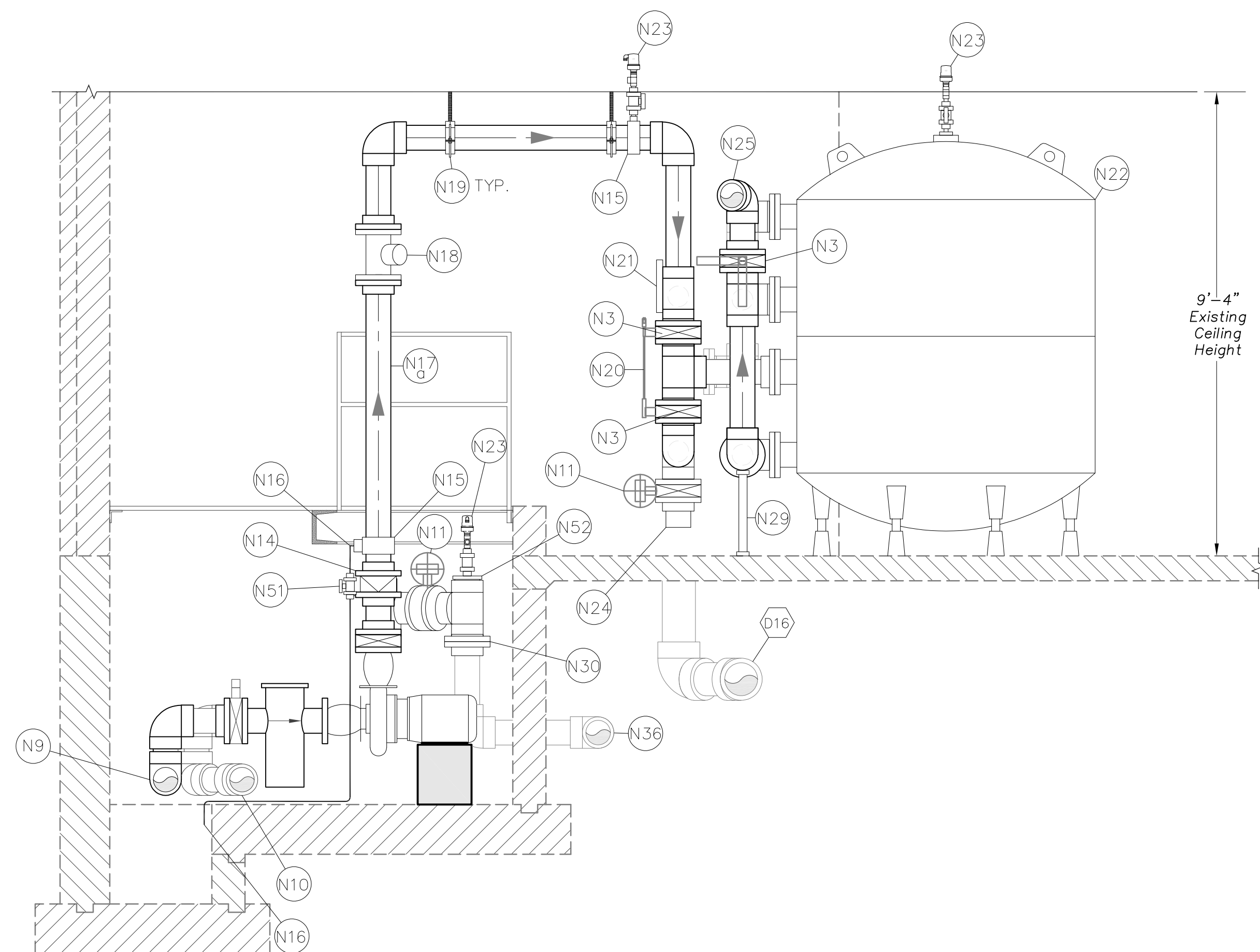
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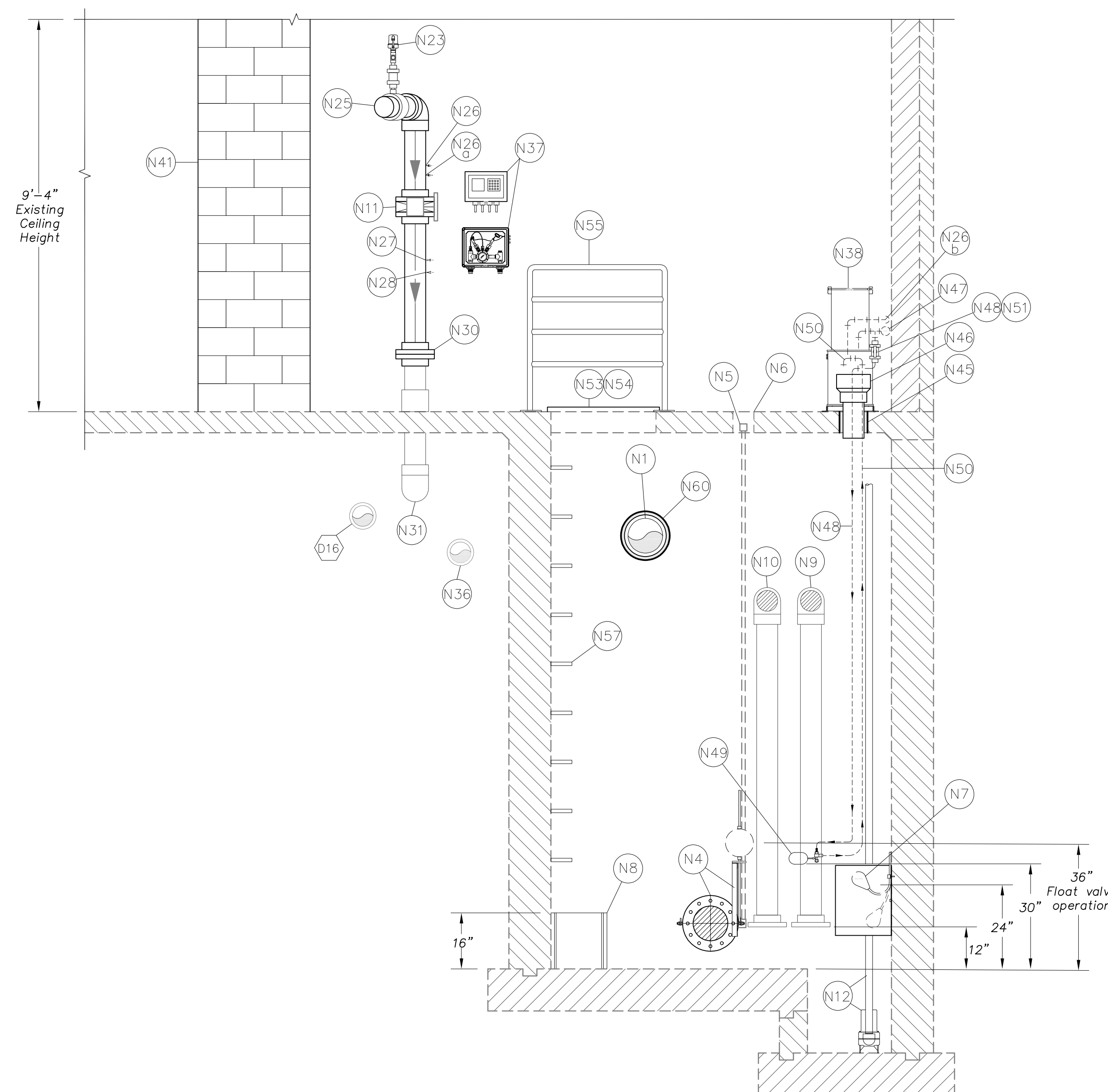
Issue: CONSTRUCTION DOCUMENTS

**FILTER AREA
IMPROVEMENT
SECTIONS**

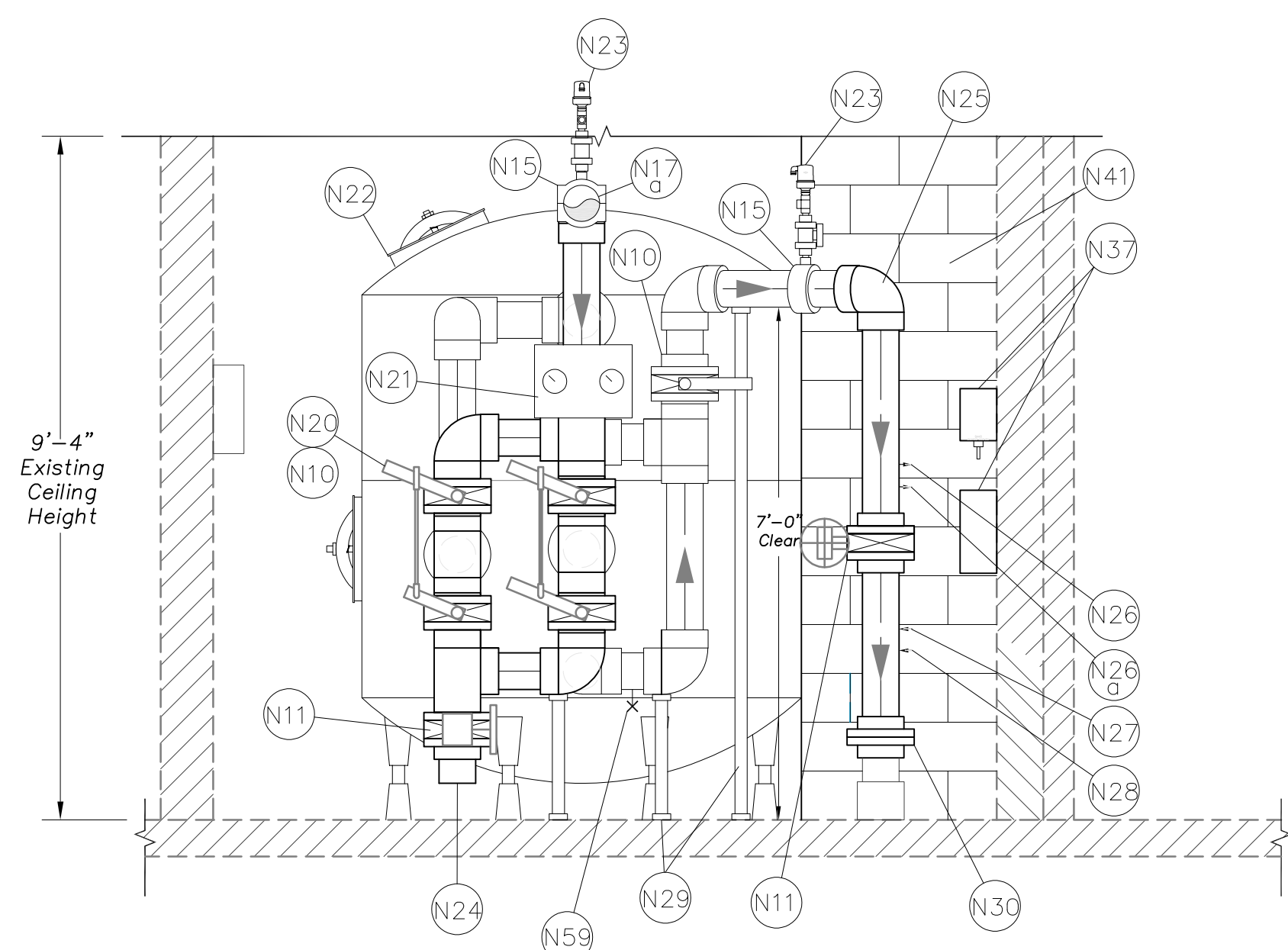
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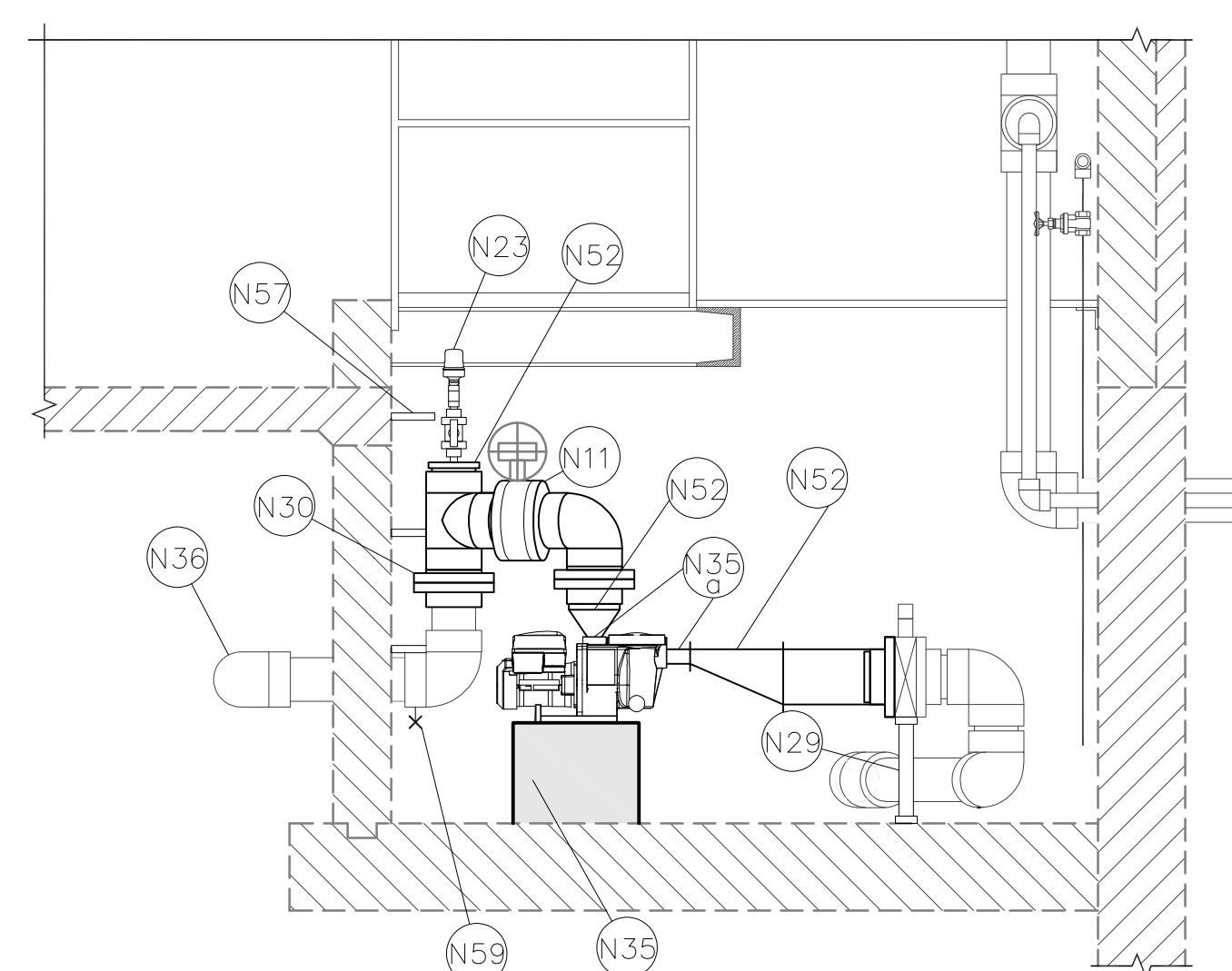
A FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



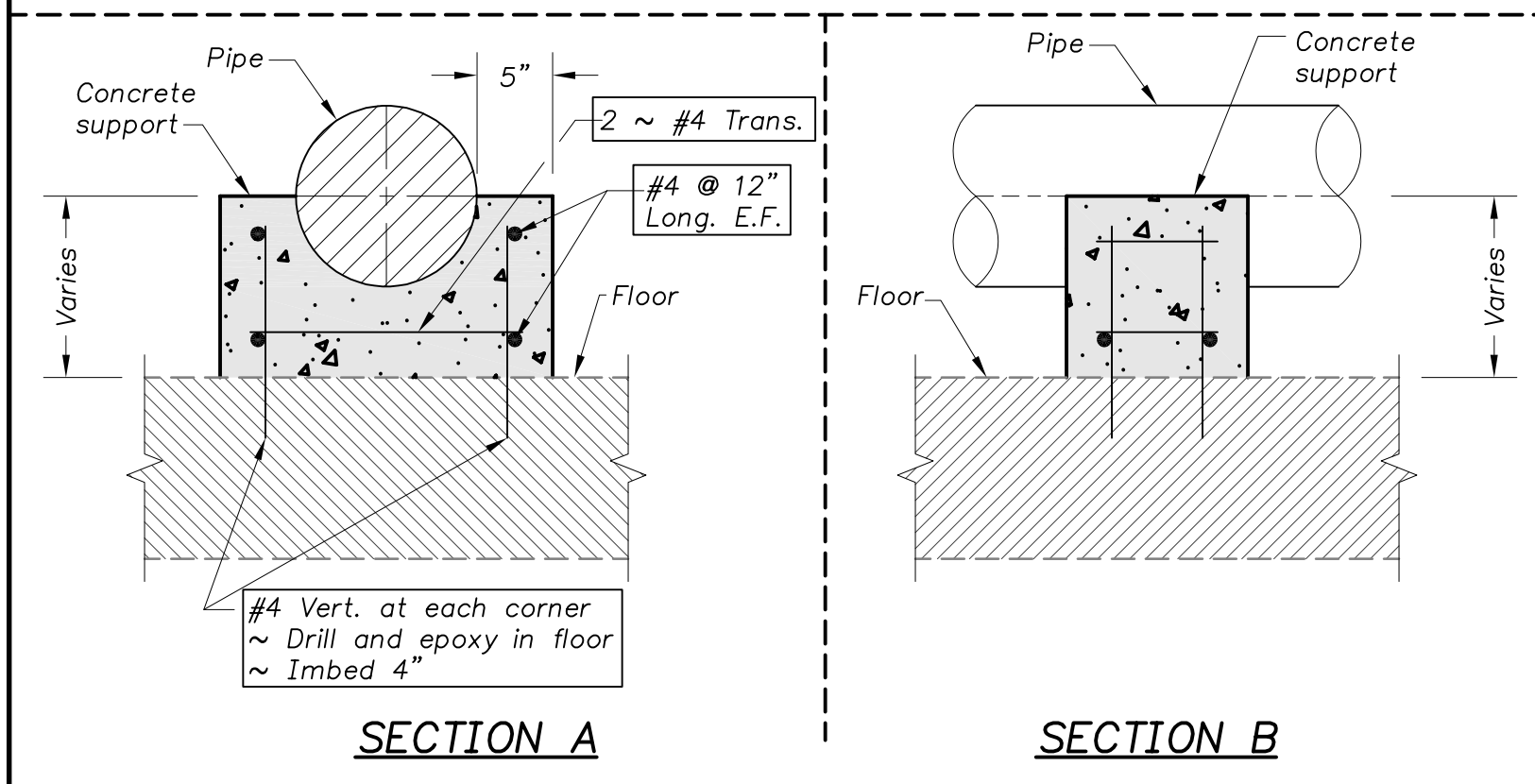
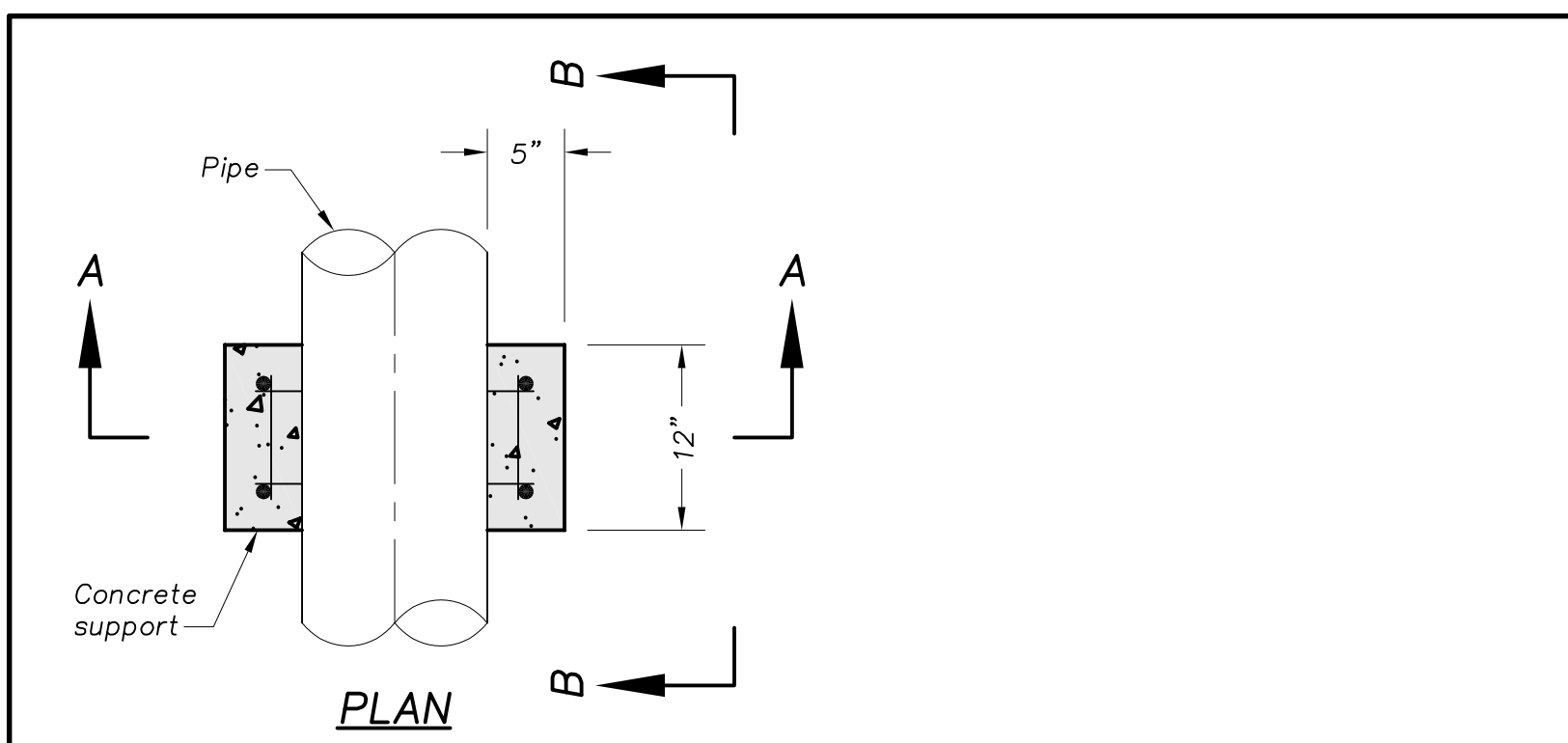
B FILTER AREA IMPROVEMENT SECTION
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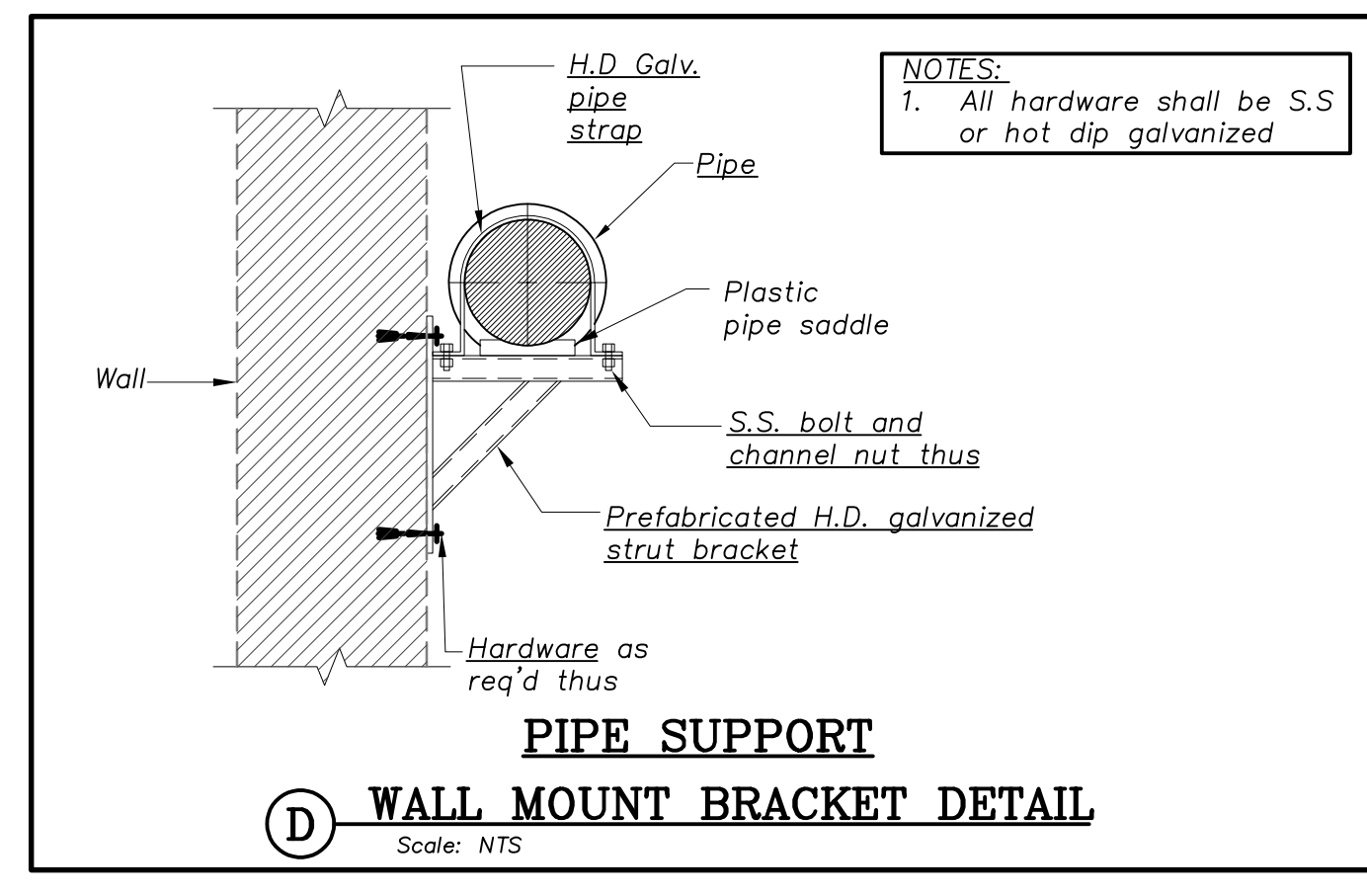
C FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



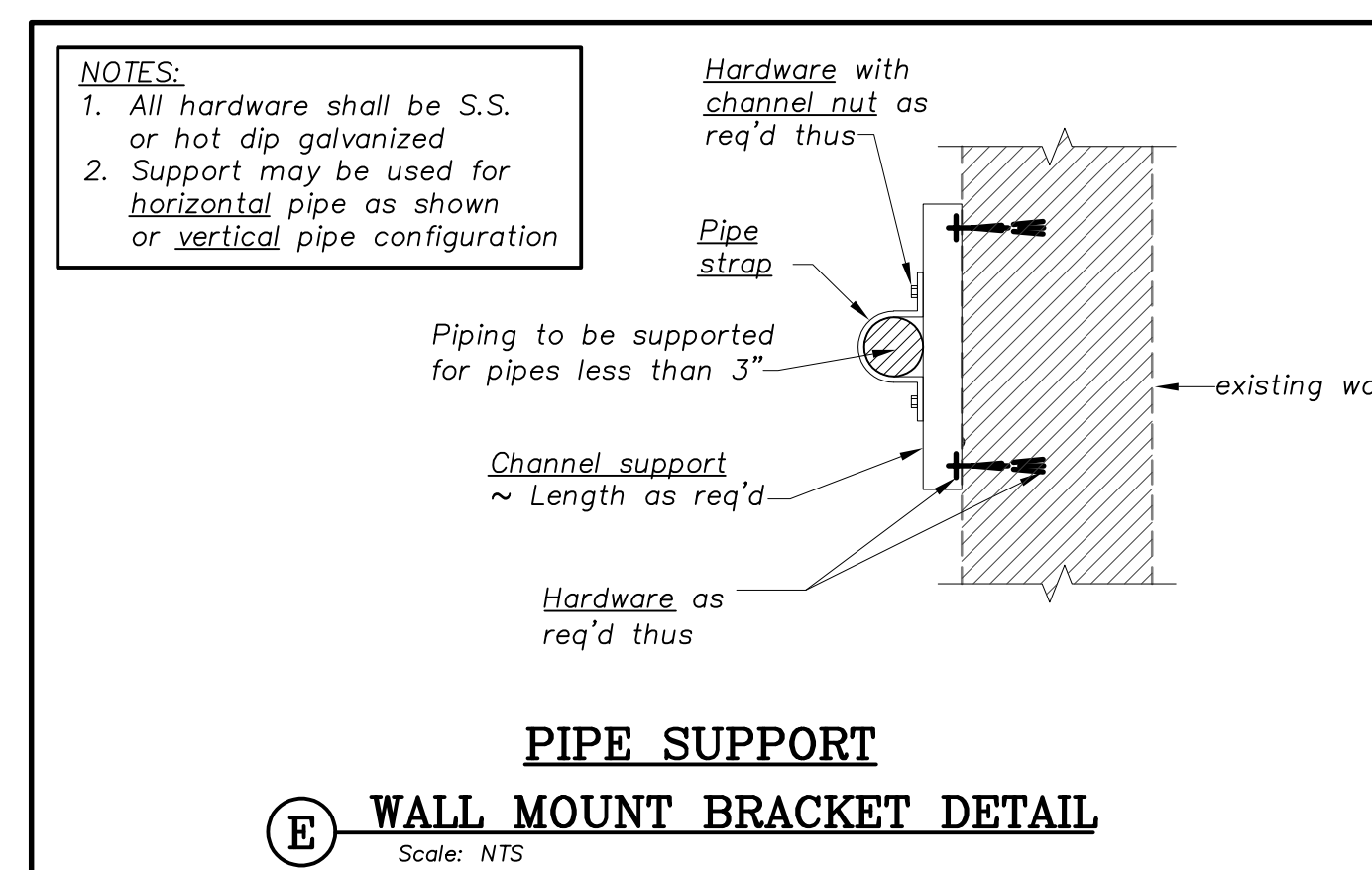
D FILTER AREA IMPROVEMENT SECTION
Scale: 1/2"=1'-0"



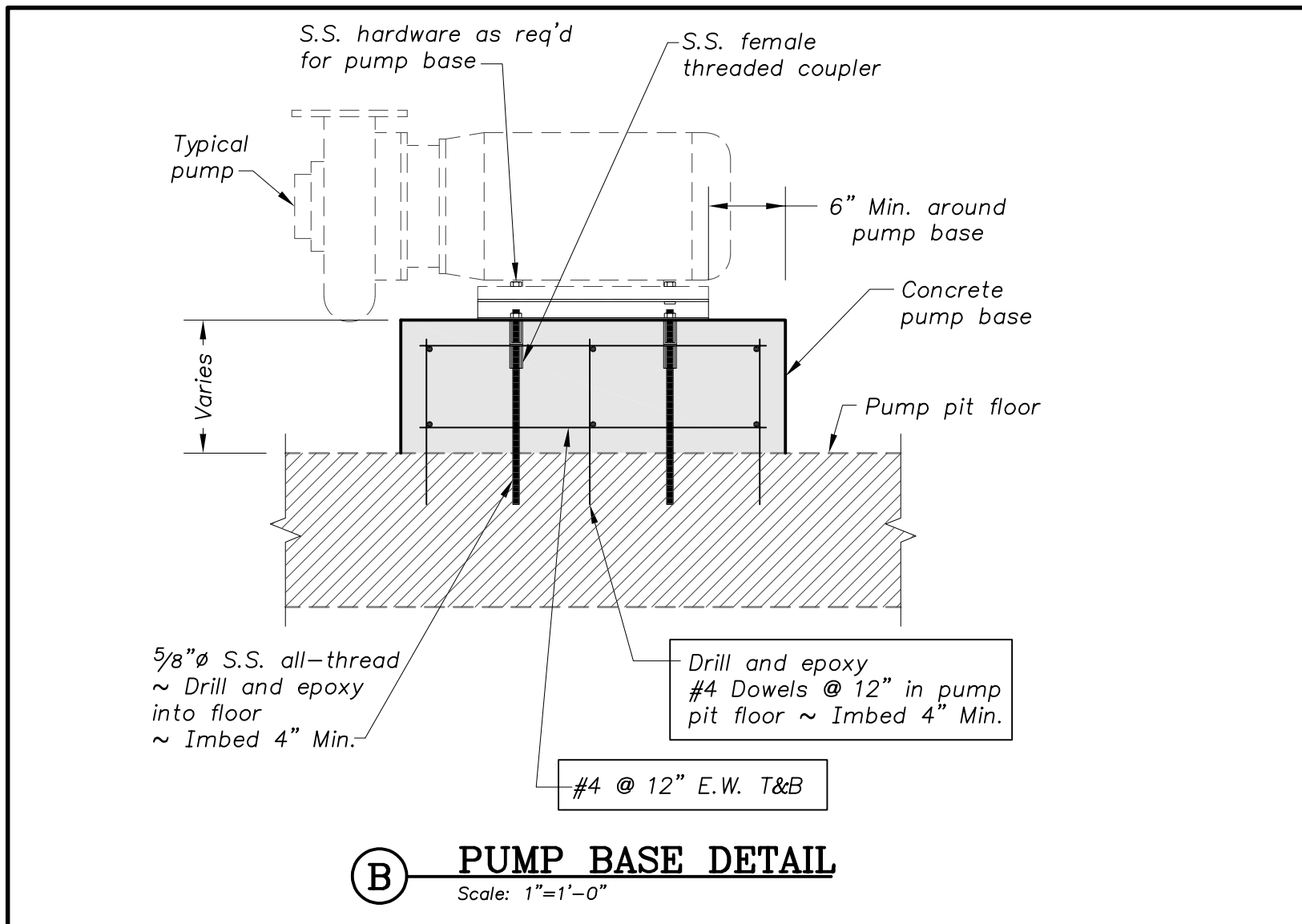
A PIPE SUPPORT - CONCRETE DETAIL
Scale: 1"=1'-0"



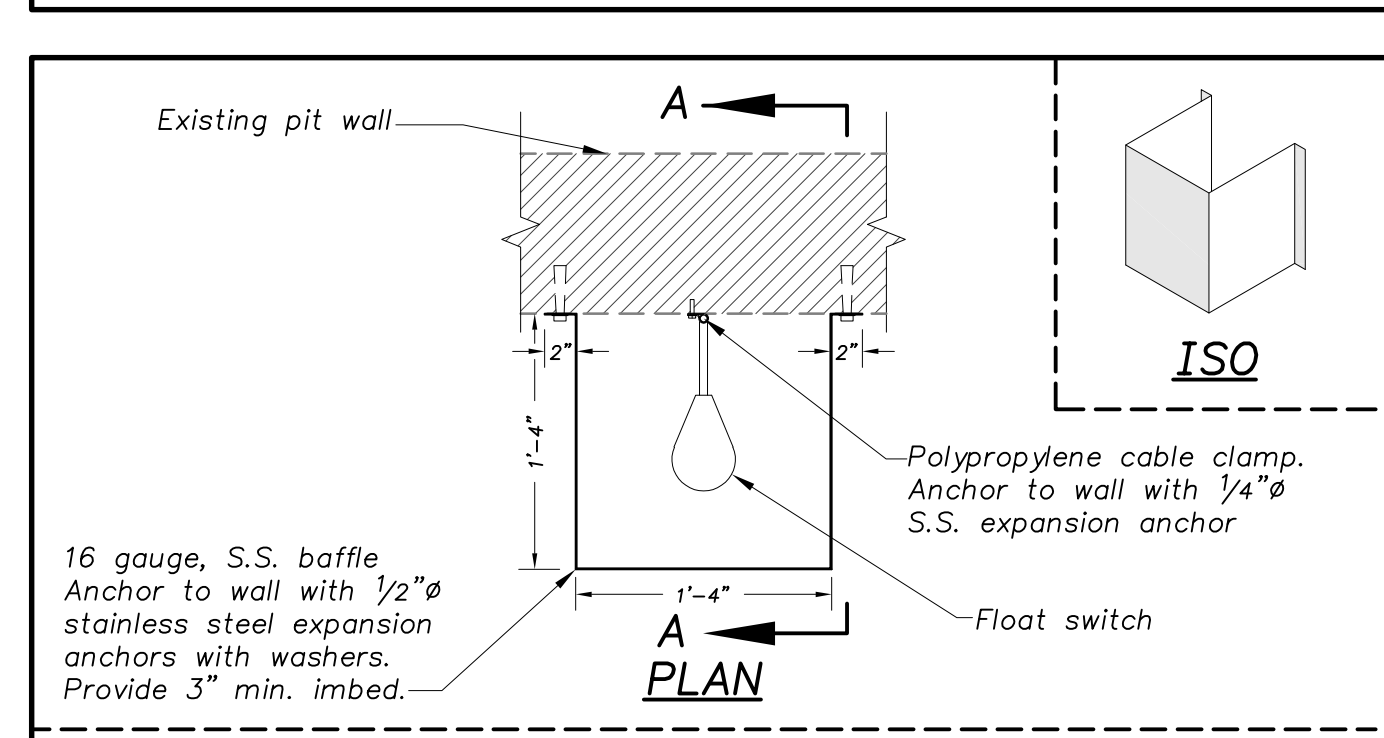
D WALL MOUNT BRACKET DETAIL
Scale: NTS



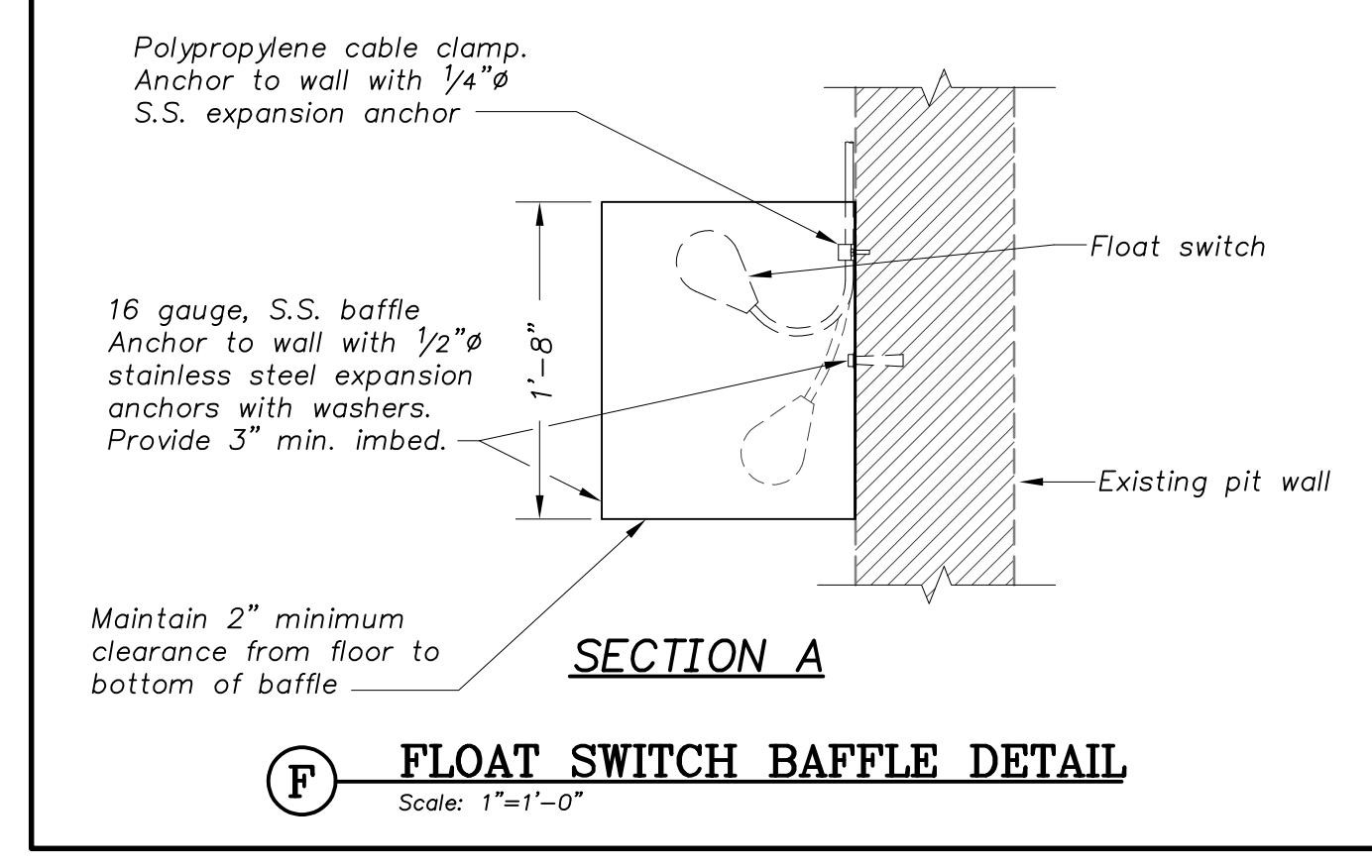
E WALL MOUNT BRACKET DETAIL
Scale: NTS



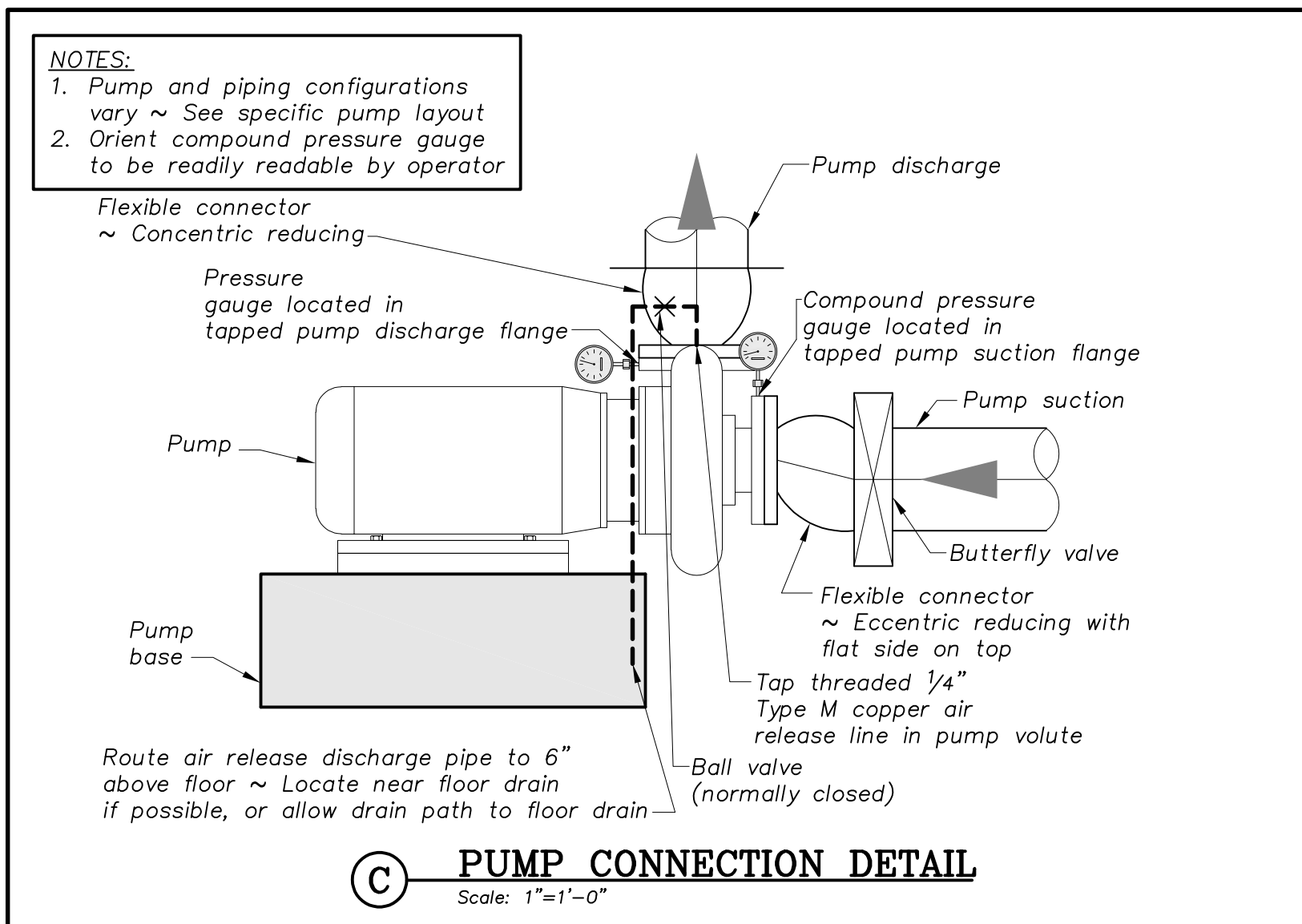
B PUMP BASE DETAIL
Scale: 1"=1'-0"



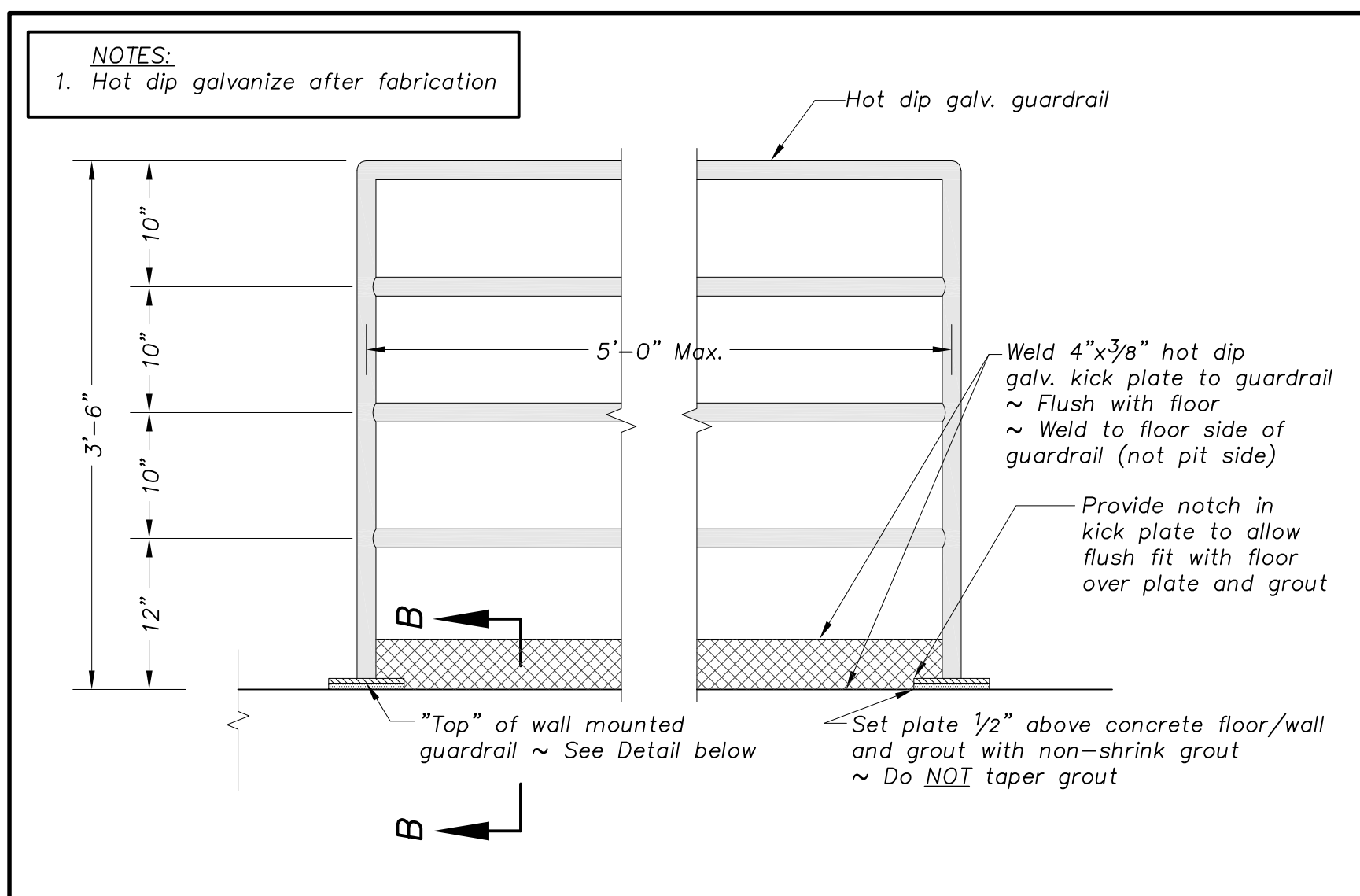
F FLOAT SWITCH BAFFLE DETAIL
Scale: 1"=1'-0"



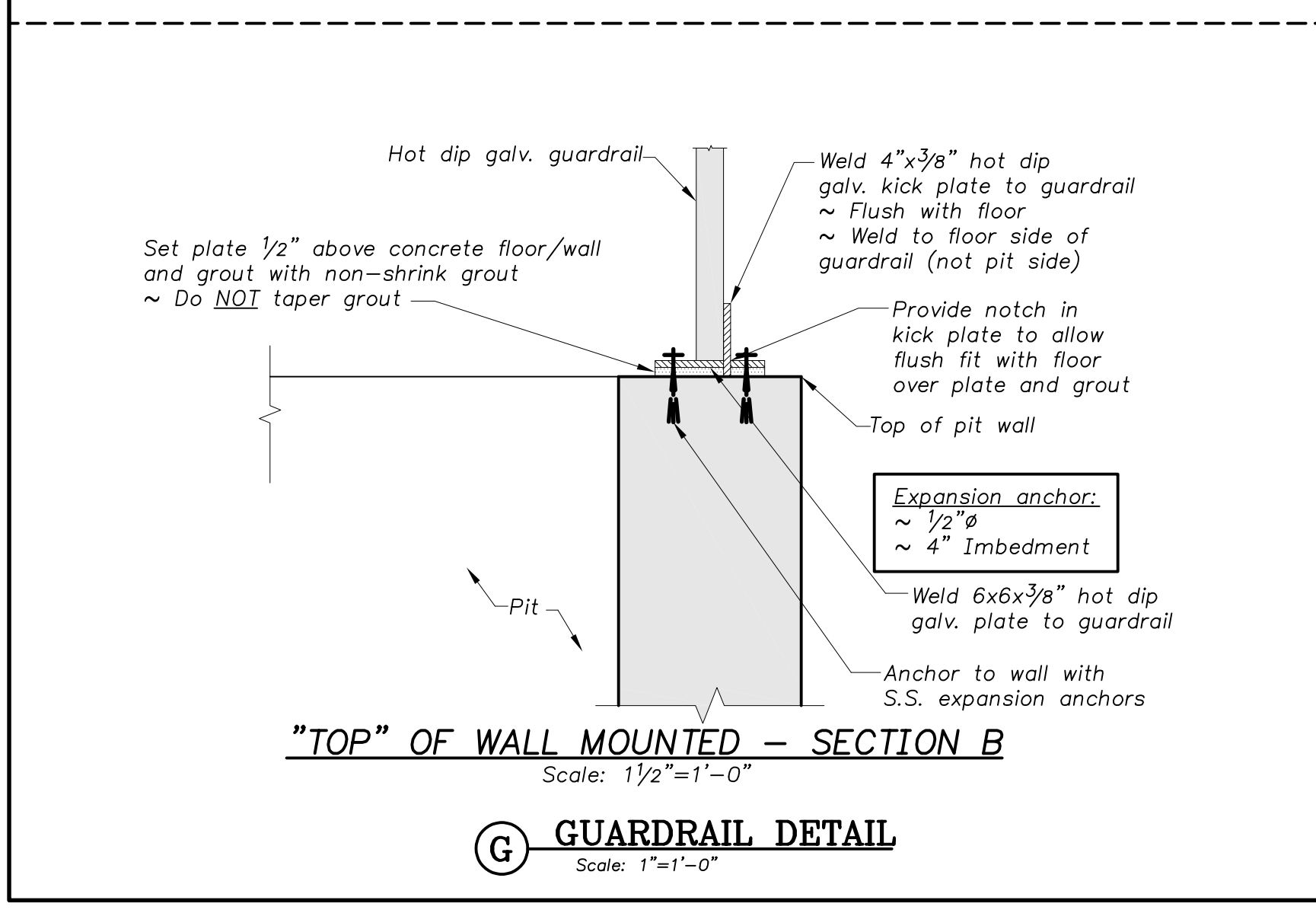
F FLOAT SWITCH BAFFLE DETAIL
Scale: 1"=1'-0"



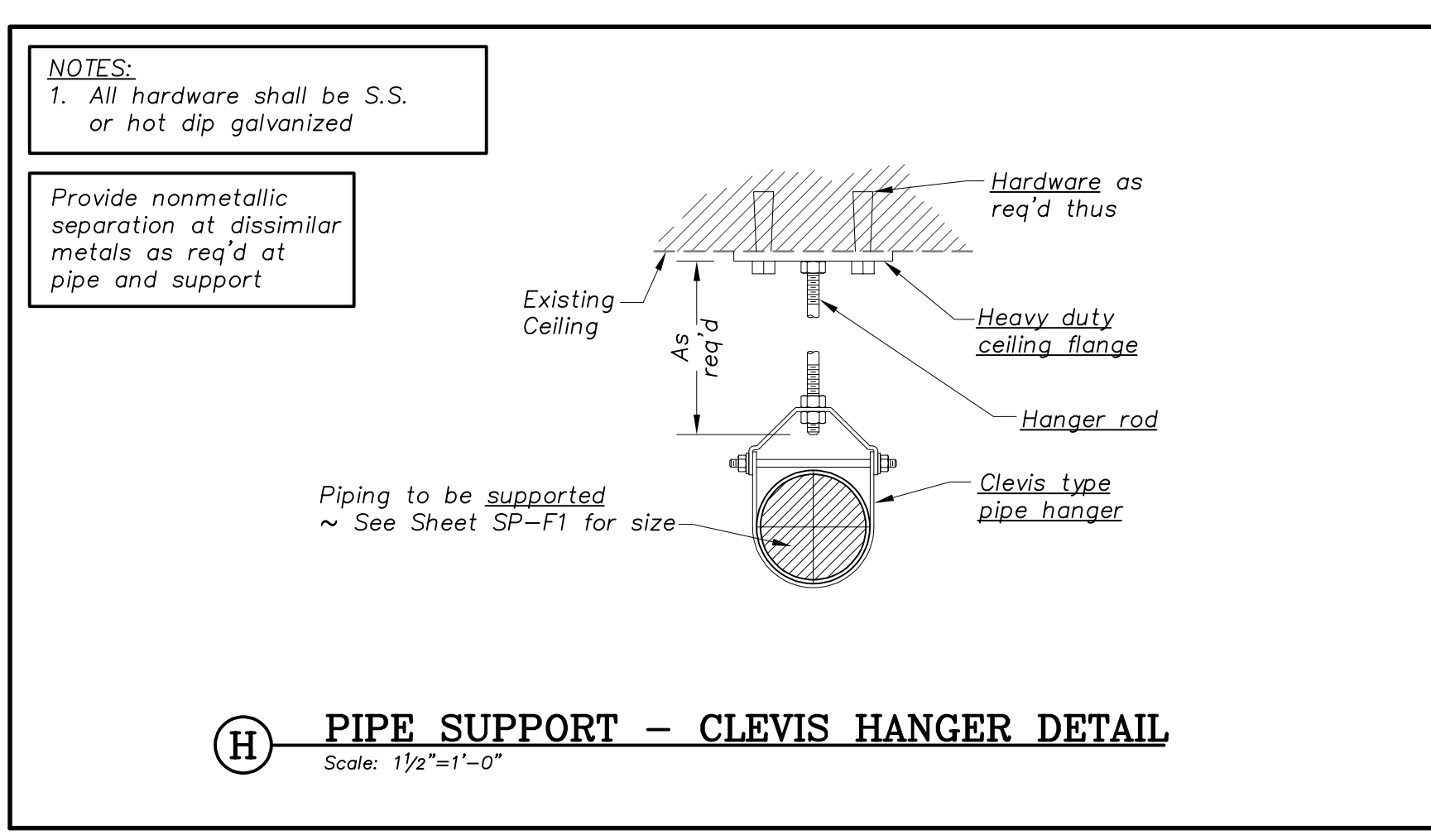
C PUMP CONNECTION DETAIL
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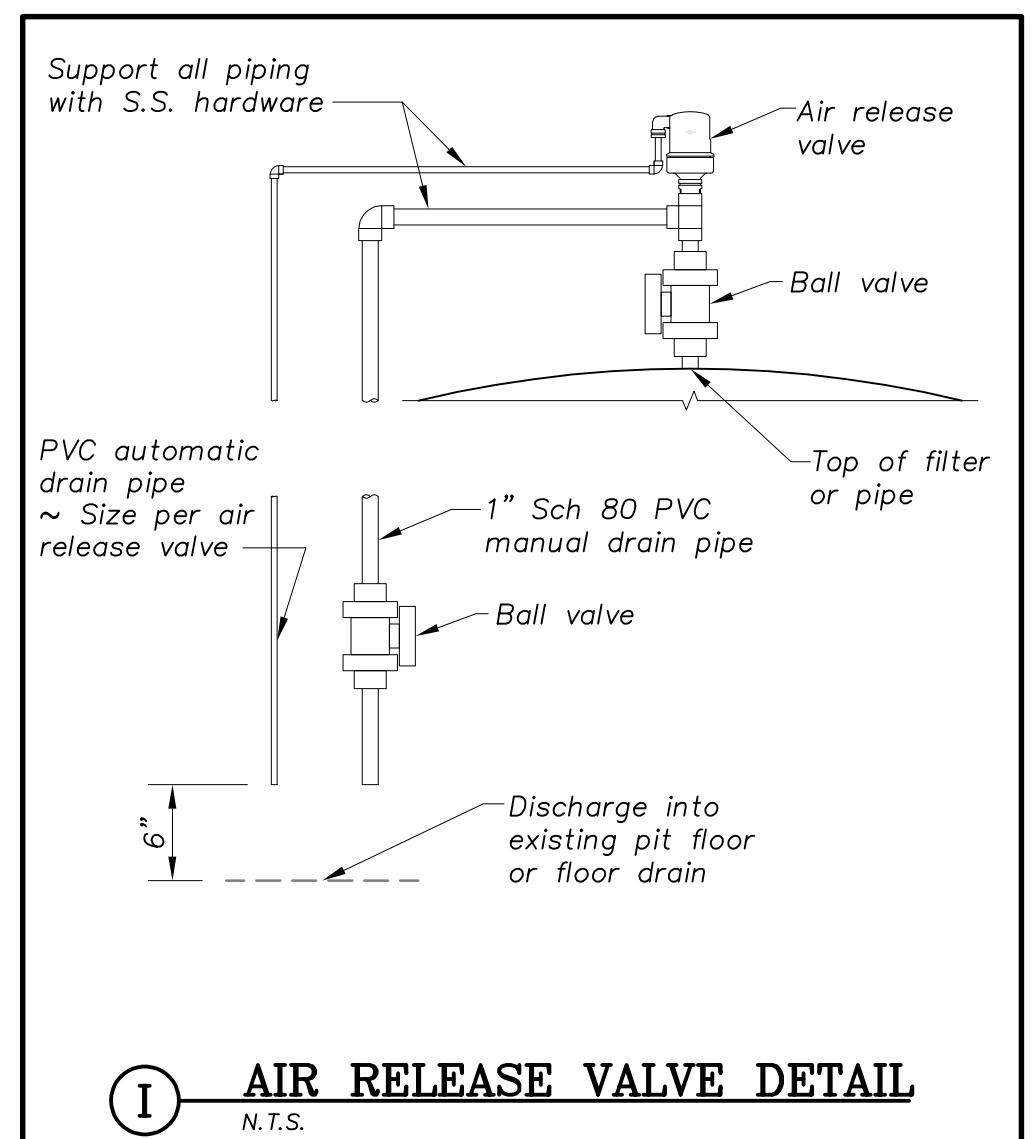
G GUARDRAIL DETAIL
Scale: 1 1/2"=1'-0"



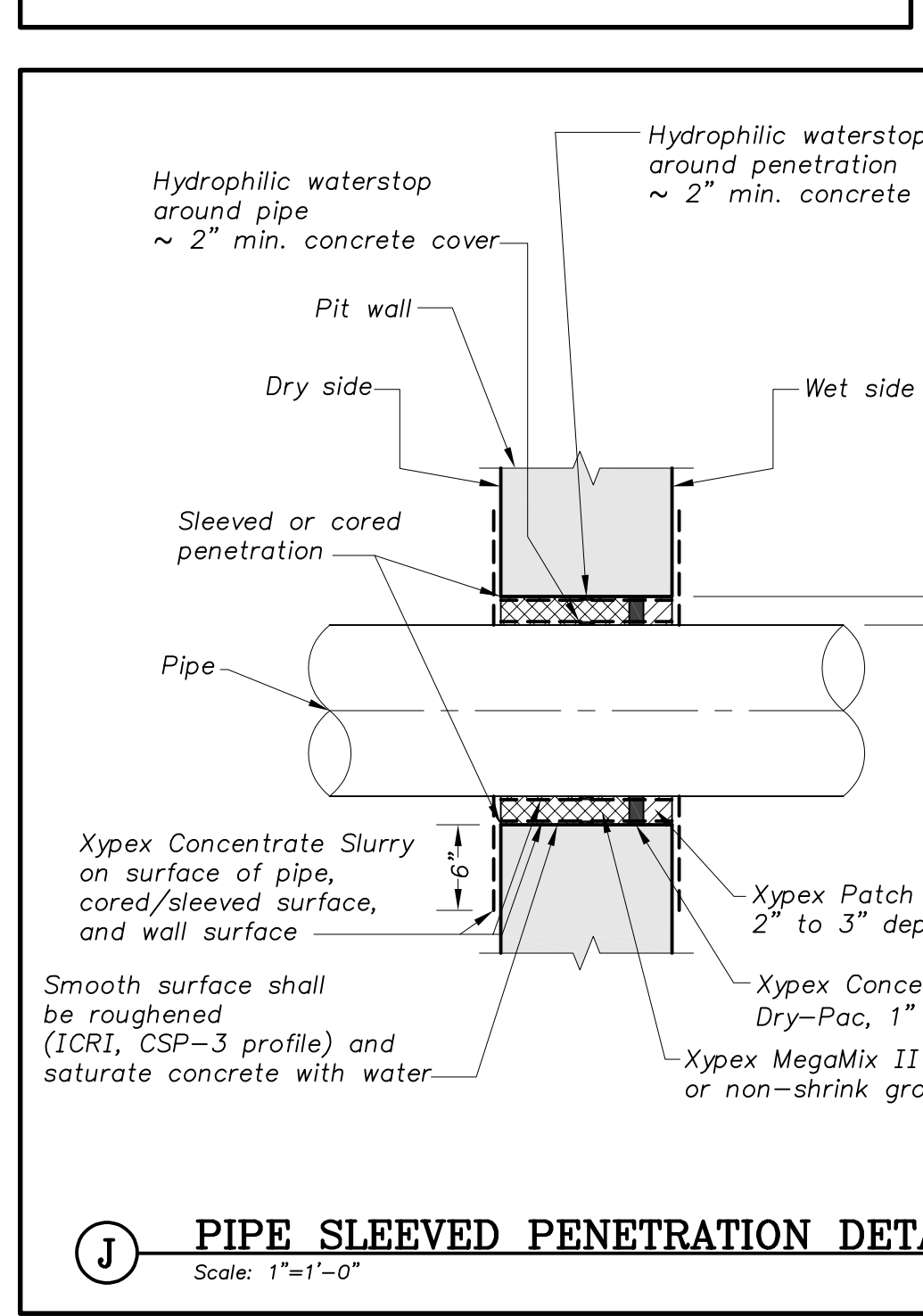
G GUARDRAIL DETAIL
Scale: 1"=1'-0"



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



I AIR RELEASE VALVE DETAIL
Scale: N.T.S.



J PIPE SLEEVED PENETRATION DETAIL
Scale: 1"=1'-0"

waters edge
AQUATIC DESIGN

11205 W. 79th St.
Lenexa, KS 66214

t. 913.438.4338
www.WeDesignPools.com

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URBAN PRAIRIE
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H&B
HOSS & BROWN
ENGINEERS

WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK

WICHITA

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

Jeff Bartley-ENGINEER
LICENSE #15116

Date: 09-27-21 Job #: 18-512

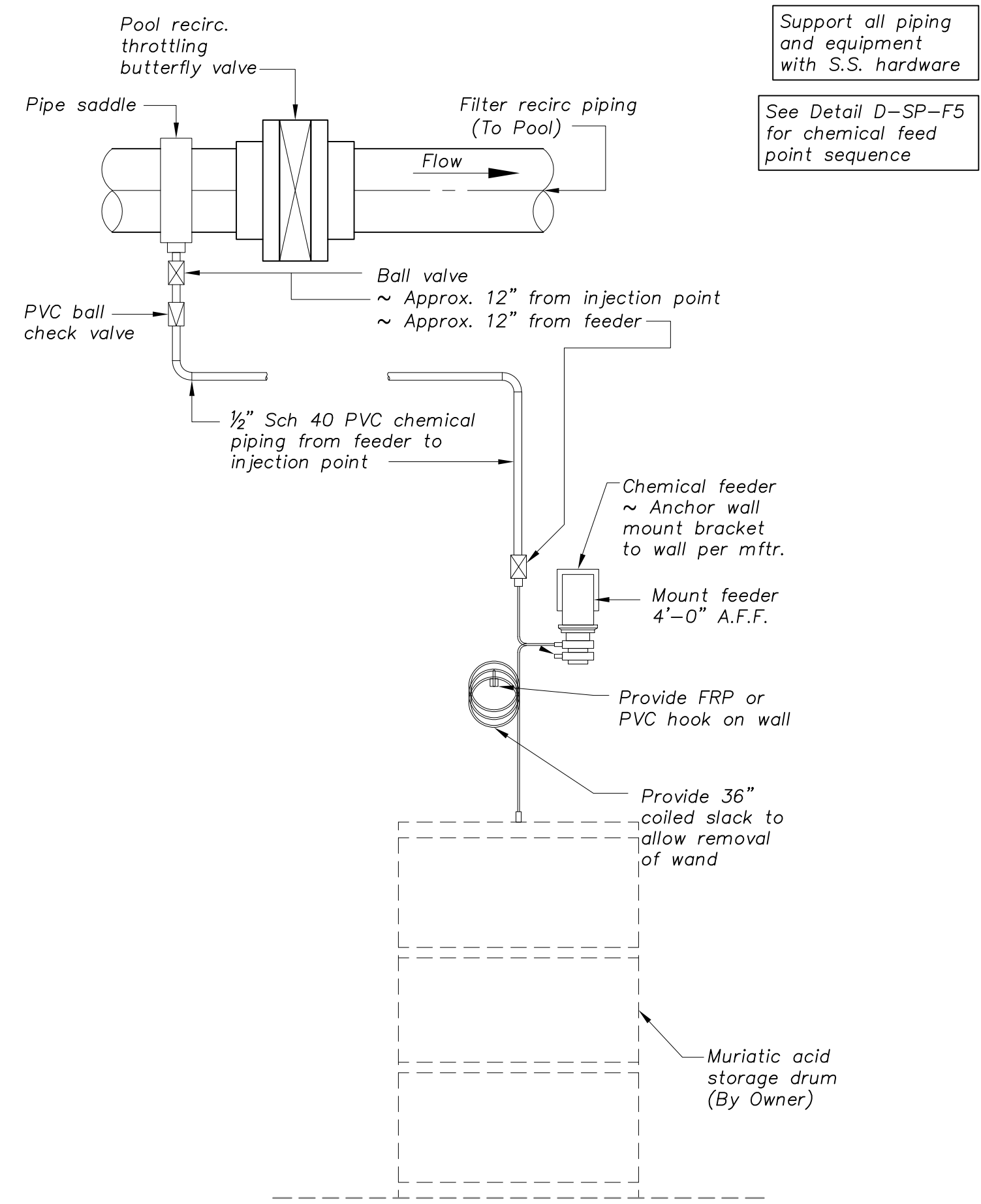
Drawn: CJB Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

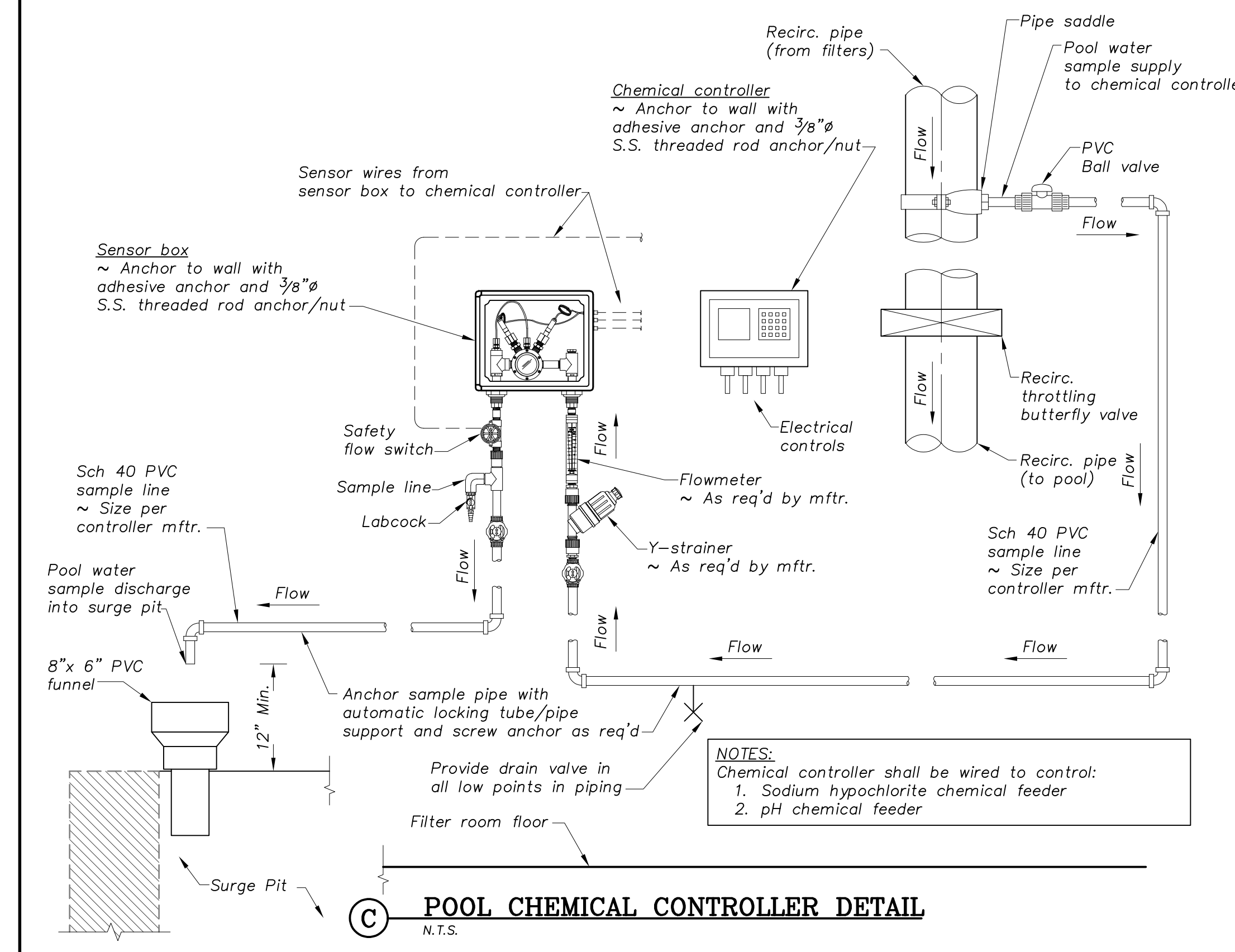
FILTER AREA
IMPROVEMENT
DETAILS

SP-F4

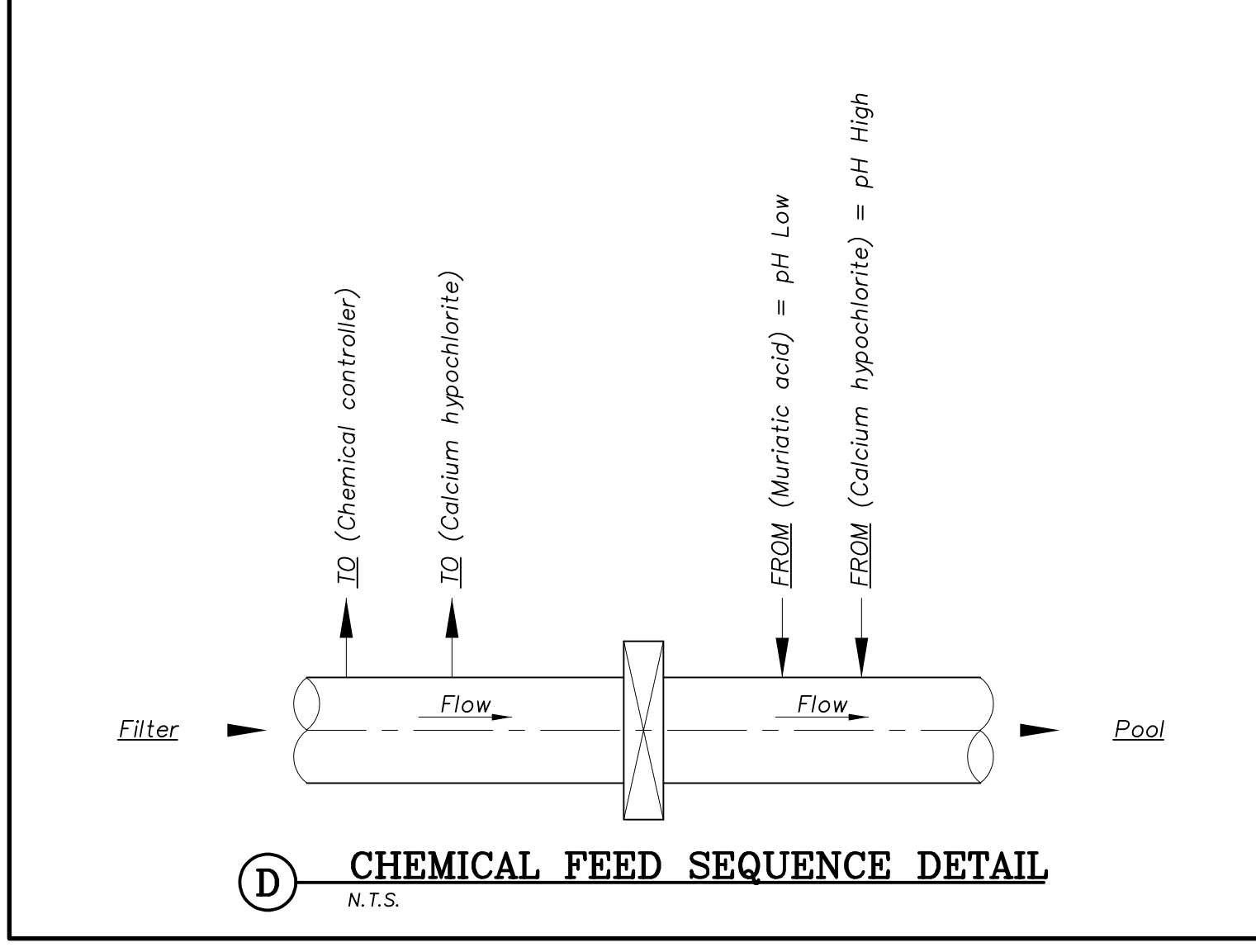
Water's Edge Aquatic Design
© 2021



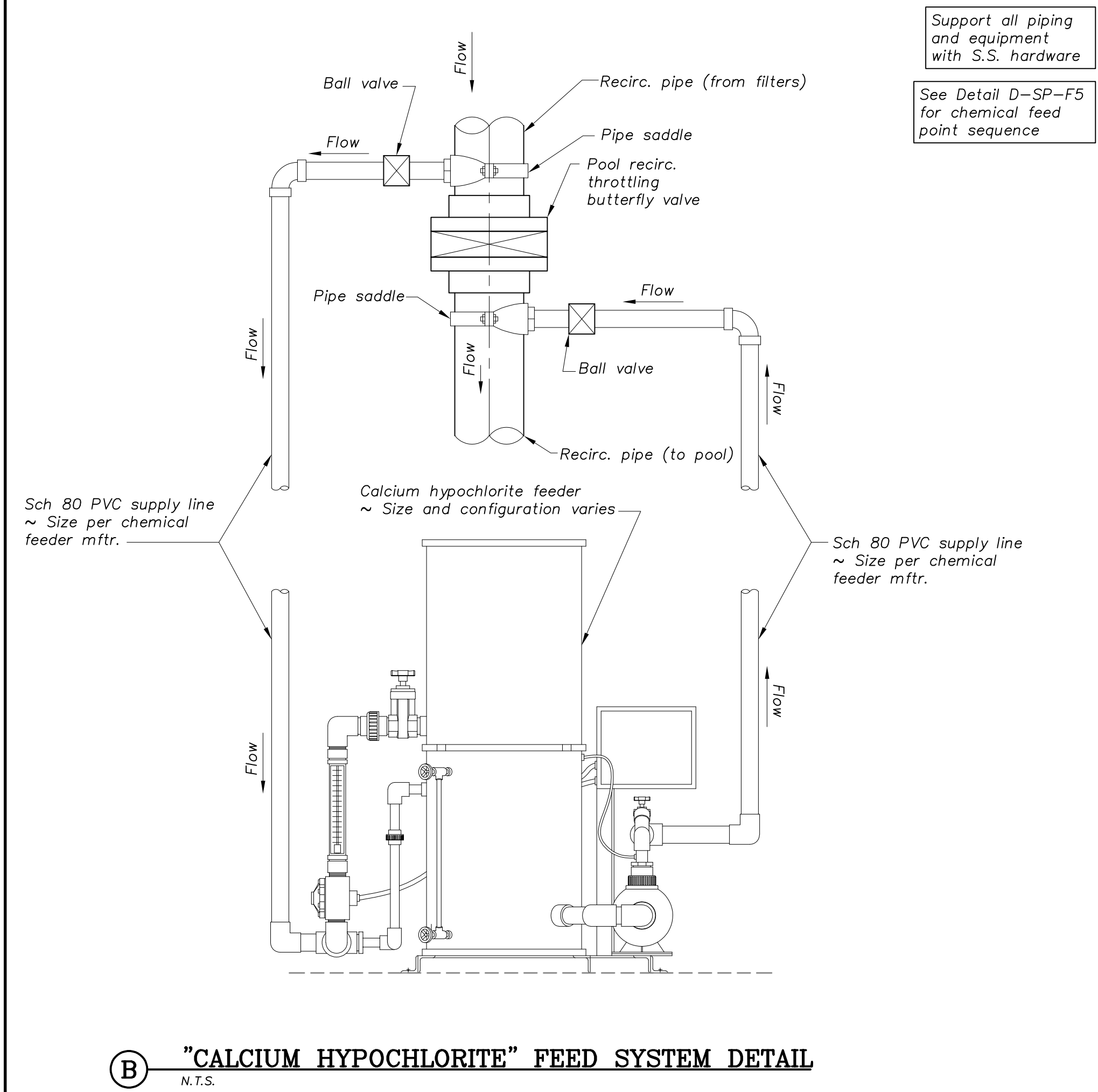
A "MURIATIC ACID" FEED SYSTEM DETAIL
N.T.S.



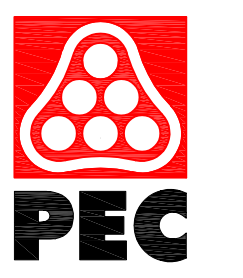
C POOL CHEMICAL CONTROLLER DETAIL
N.T.S.



D CHEMICAL FEED SEQUENCE DETAIL
N.T.S.



B "CALCIUM HYPOCHLORITE" FEED SYSTEM DETAIL
N.T.S.



WICHITA, KANSAS
Pool Improvements
COLLEGE HILL PARK



Jeff Bartley - ENGINEER
LICENSE #15116
Date: 09-27-21 Job #: 18-512
Drawn: CJB Checked: JAB

Issue: CONSTRUCTION DOCUMENTS

**FILTER AREA
IMPROVEMENT
DETAILS**

SP-F5

Model Building/Design Codes Used:

2018 International Building Code
 2015 Uniform Plumbing Code
 2018 International Fire Code
 2018 International Mechanical Code
 2020 National Electrical Code
 City Municipal Code

Proposed Project Description:

This project entails the renovation of the bath house building at the pool in the College Hill Neighborhood of Wichita, KS. The scope of the Urban Prairie's work covers the bath house only. The surrounding site improvements, swimming pool and filtration systems have been designed by others.

The proposed bath house building shall be for seasonal use only and will need to be winterized by the Owner when the potential for frost occurs. The majority of the building is not and will not be heated.

Occupancy Classification:

The bathhouse building is intended for use in outdoor activities. Classified as: Assembly (A-5)

Type of Construction:

Construction type: Type V-B
 Note: the building will NOT have a fire suppression system

Building Areas and Heights:

Allowable building area: Unlimited
 Allowable building heights: 40'-0" / unlimited # stories

Actual building area:
 Bathhouse (A-5): 1,594 gross sq. ft.
 Total: 1,594sq. ft.
 Actual building heights:
 9'-4" ± / one story

Signage:

Install "no-smoking" signs at all public and employee entrances. Also provide ANSI/ADA compliant signage per signage schedule

Fire Extinguishers:

Fire extinguishers to be provided and installed per NFPA 10

Occupant Loads:

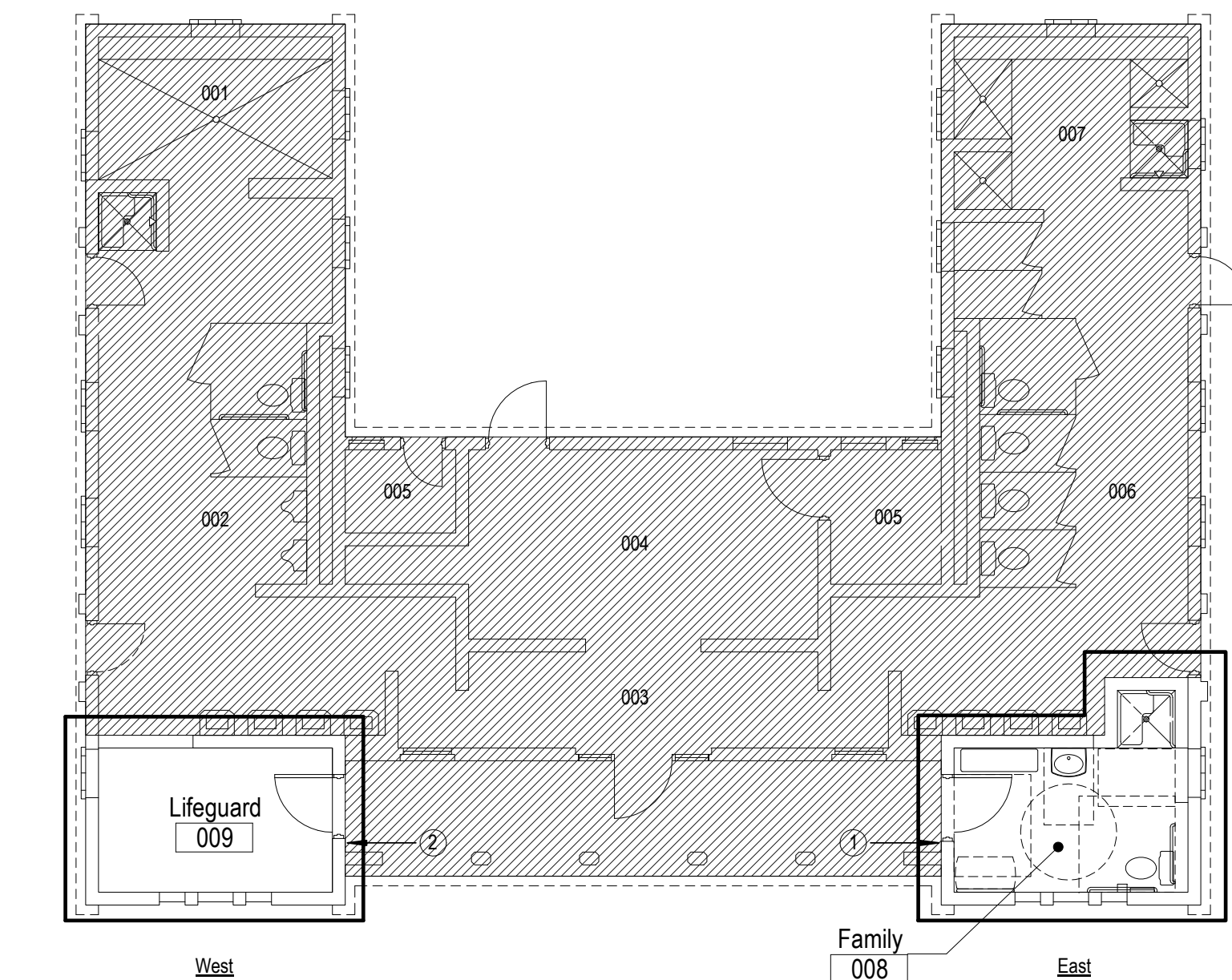
Boys Shower room 001: 75 sf / 15 net sf/occupant = 5 occupants [existing]
 Boys Locker room 002: 352 sf / 15 net sf/occupant = 23 occupants [existing]
 Corridor 003: 116 sf / 100 gross sf/occupant = 2 occupants [existing]
 Main Entry 004: 191 sf / 100 gross sf/occupant = 2 occupants [existing]
 Storage 005: 65 sf / 100 gross sf/occupant = 1 occupants [existing]
 Girls Locker room 006: 328 sf / 15 net sf/occupant = 22 occupants [existing]
 Girls Shower room 007: 76 sf / 15 net sf/occupant = 5 occupants [existing]
 Family Change Room 008: 91 sf / 15 net sf/occupant = 7 occupants
 Lifeguard room 009: 91 sf / 100 gross sf/occupant = 1 occupants

Total Bath house building occupancy: = 68 occupants

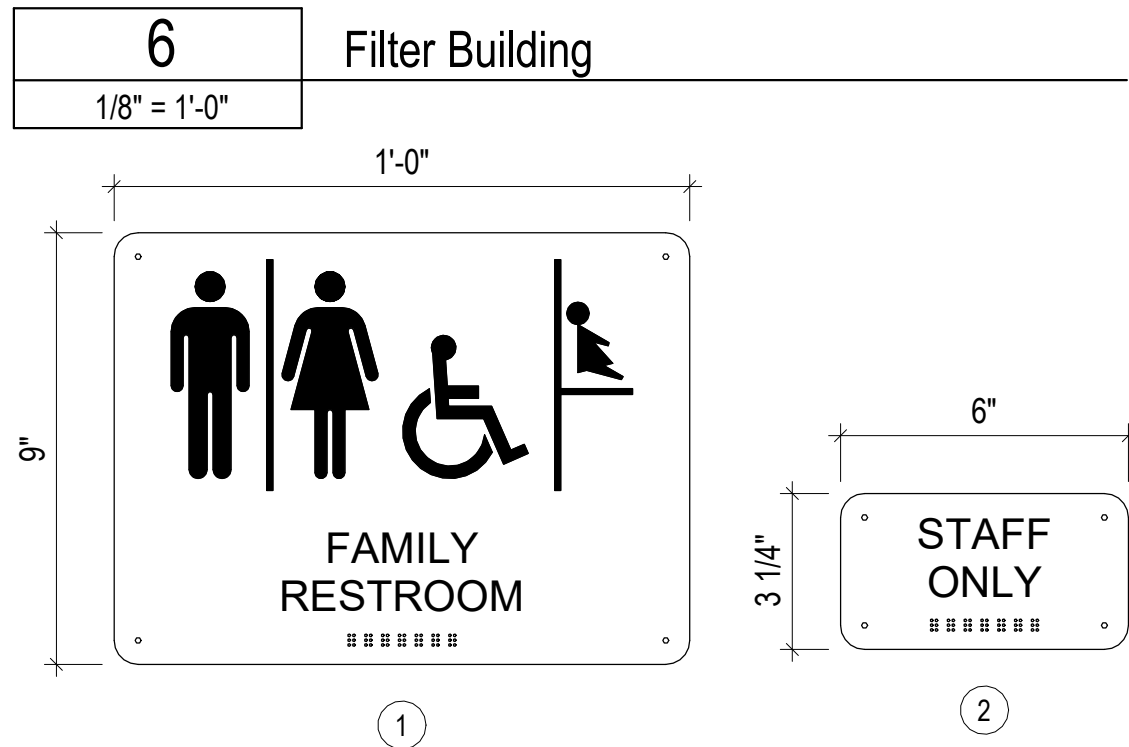
Max occupancy for groups A, B, E, F, M, and U with one exit or exit doorway: 49

Door and Frame Schedule									
Door Number	Door		Frame Type	Hardware		Exit			Remarks/Notes
	Type	Width		Height	Lockset function	Closer	Wall/Floor Stop	Device	
008	B	3' - 0"	6' - 8"	A	Priv	X	X	--	F.V exist masonry opening
009	A	3' - 0"	6' - 8"	A	Priv	X	X	--	F.V exist masonry opening
FB01	Match Exist	8' - 0"	6' - 8"	Match Exist					Reuse existing deadbolt hardware and door pulls.
FB02	ETR	3' - 0"	6' - 8"	ETR					Existing door, frame, and hardware to Remain
FB03	ETR	3' - 0"	6' - 8"	ETR					Existing door, frame, and hardware to Remain
FB04	Match Exist	3' - 0"	6' - 8"	Match Exist					Reuse existing deadbolt hardware and door pulls.

- NOTES**
 1. Doors, frames and hardware to match building standard and the handles to comply with ADA standards and IBC 2018.
 2. All new hollow metal door frames to receive bituminous coating at all unexposed portion of the frame for added corrosion resistance prior to installation.

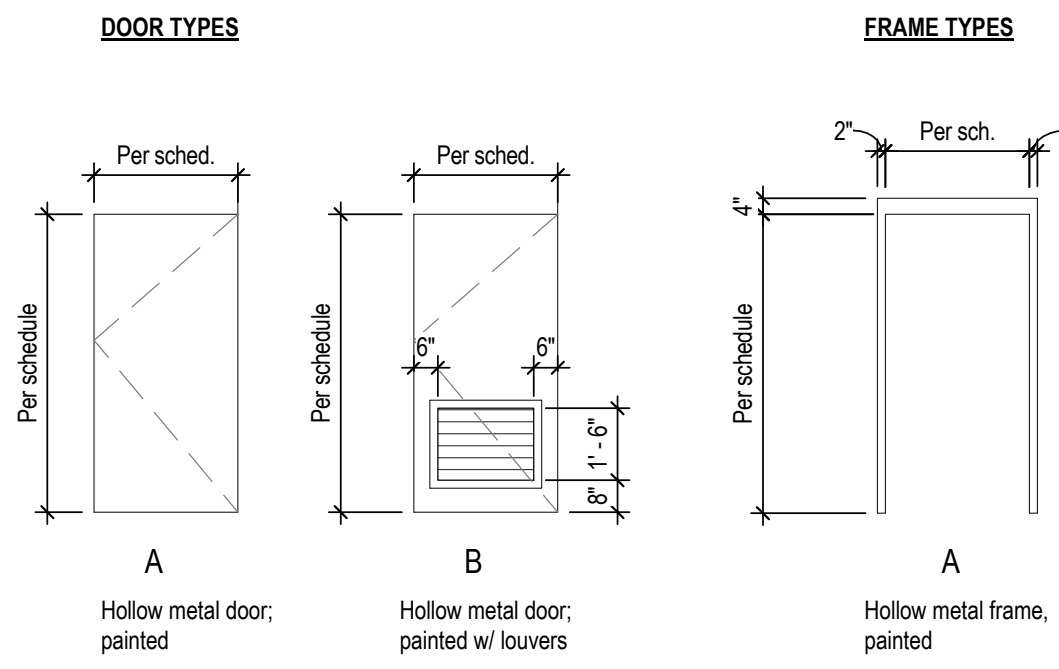


2
 1/8" = 1'-0"
 Key Plan



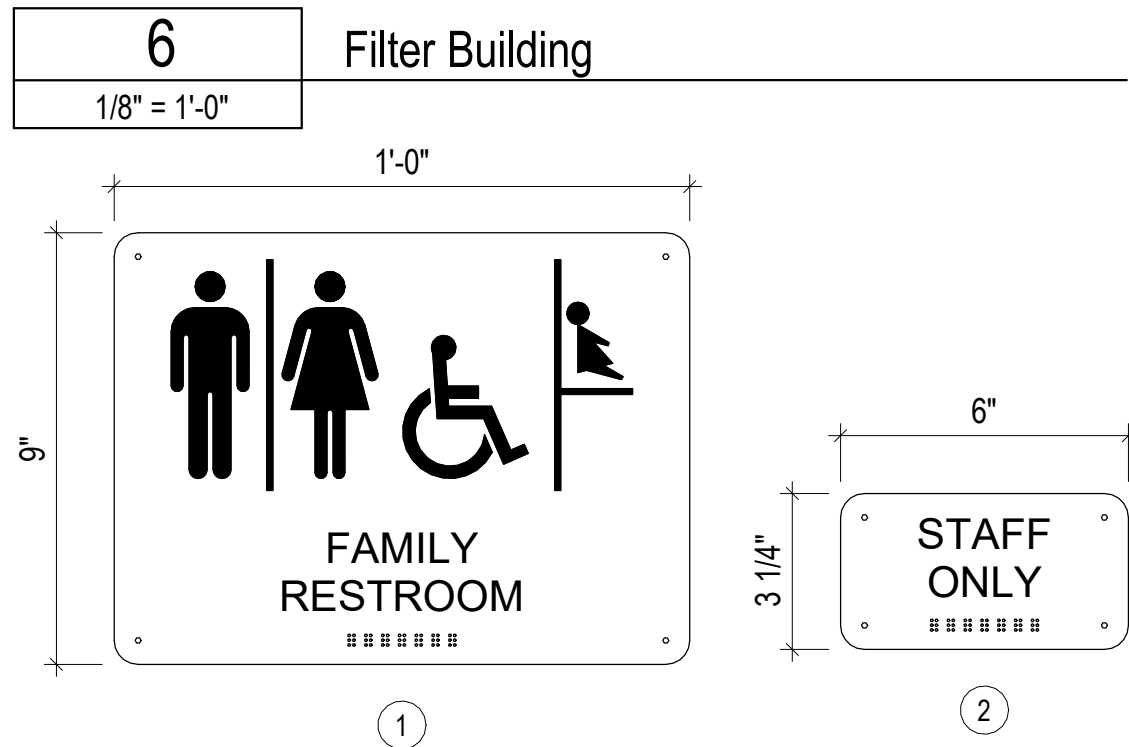
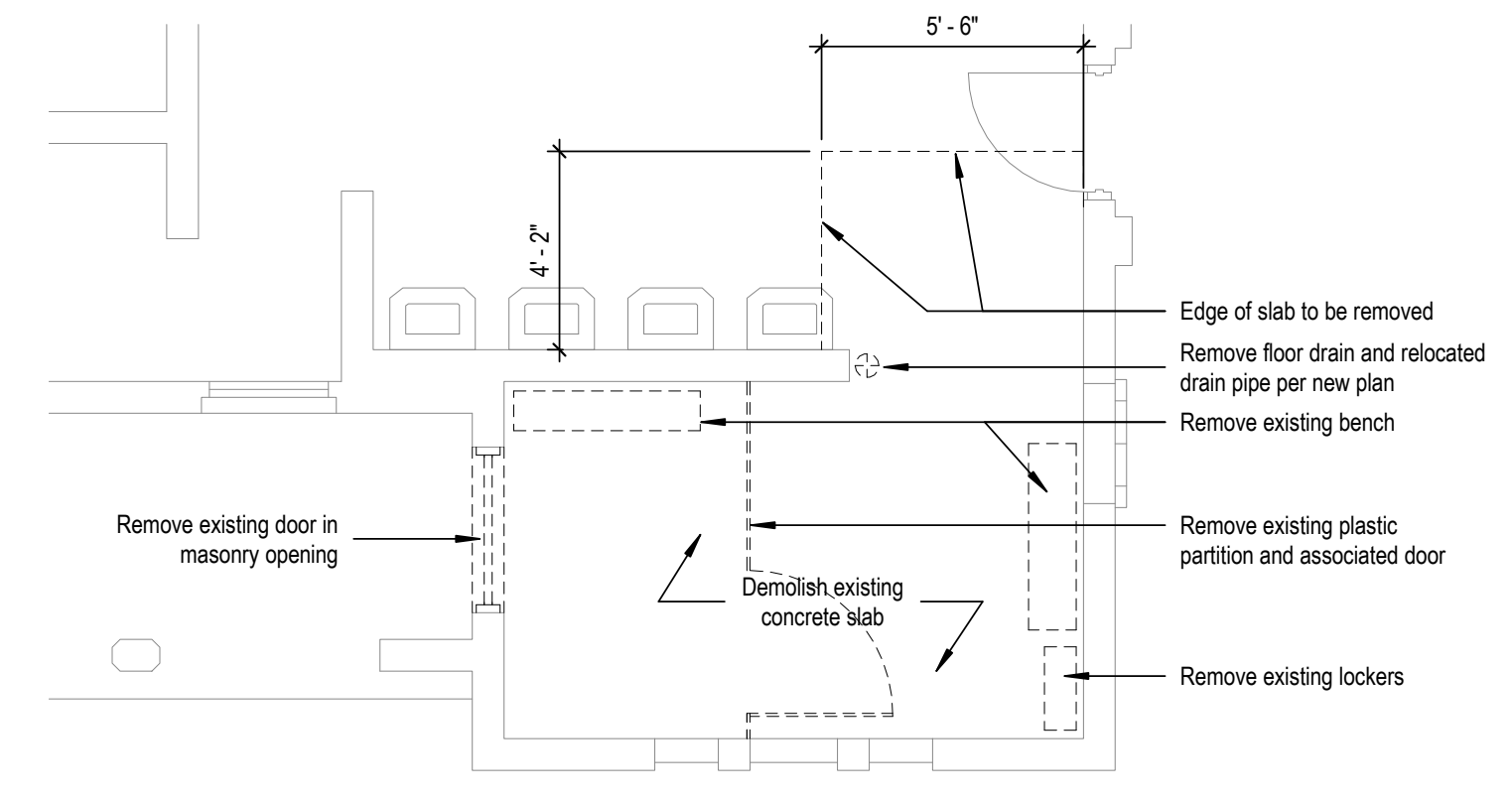
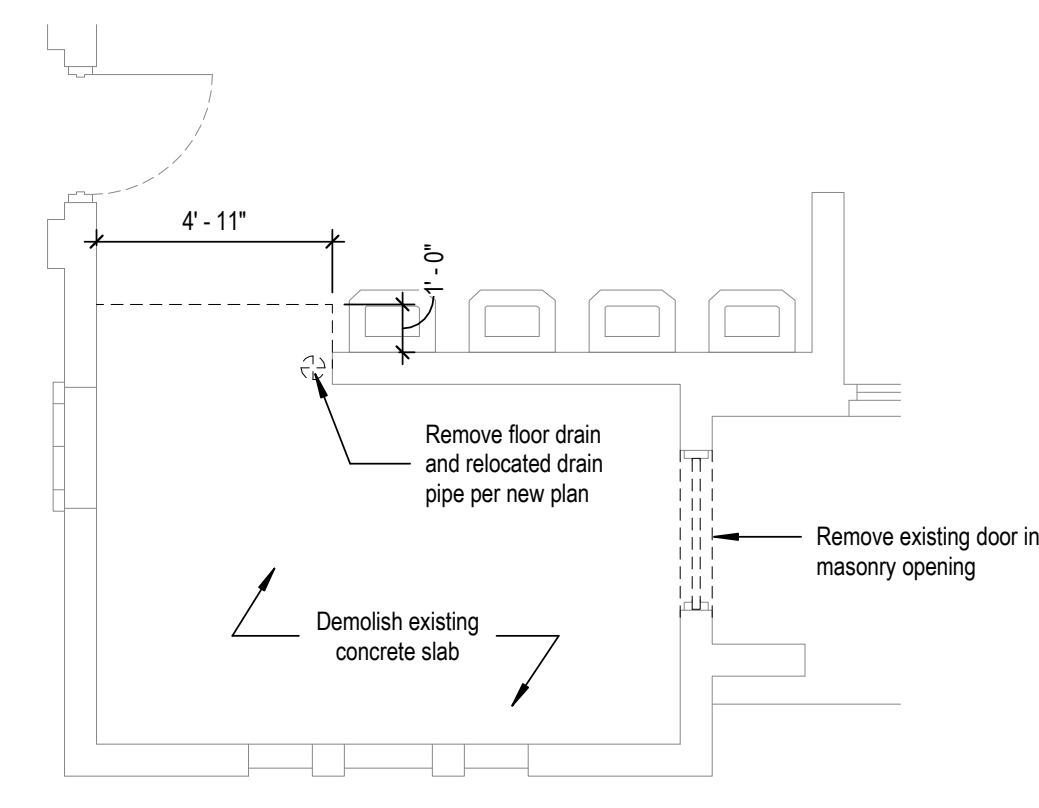
- Signage Materials:**
- 1/8" acrylic, color as selected from manufacturer's standard color range
 - 1/32" raised lettering, color as selected from manufacturer's standard color range
 - Mechanically fastened w/ stainless steel masonry anchor screws
 - Provide Sample for approval from owner & architect

3
 3" = 1'-0"
 Signage Legend

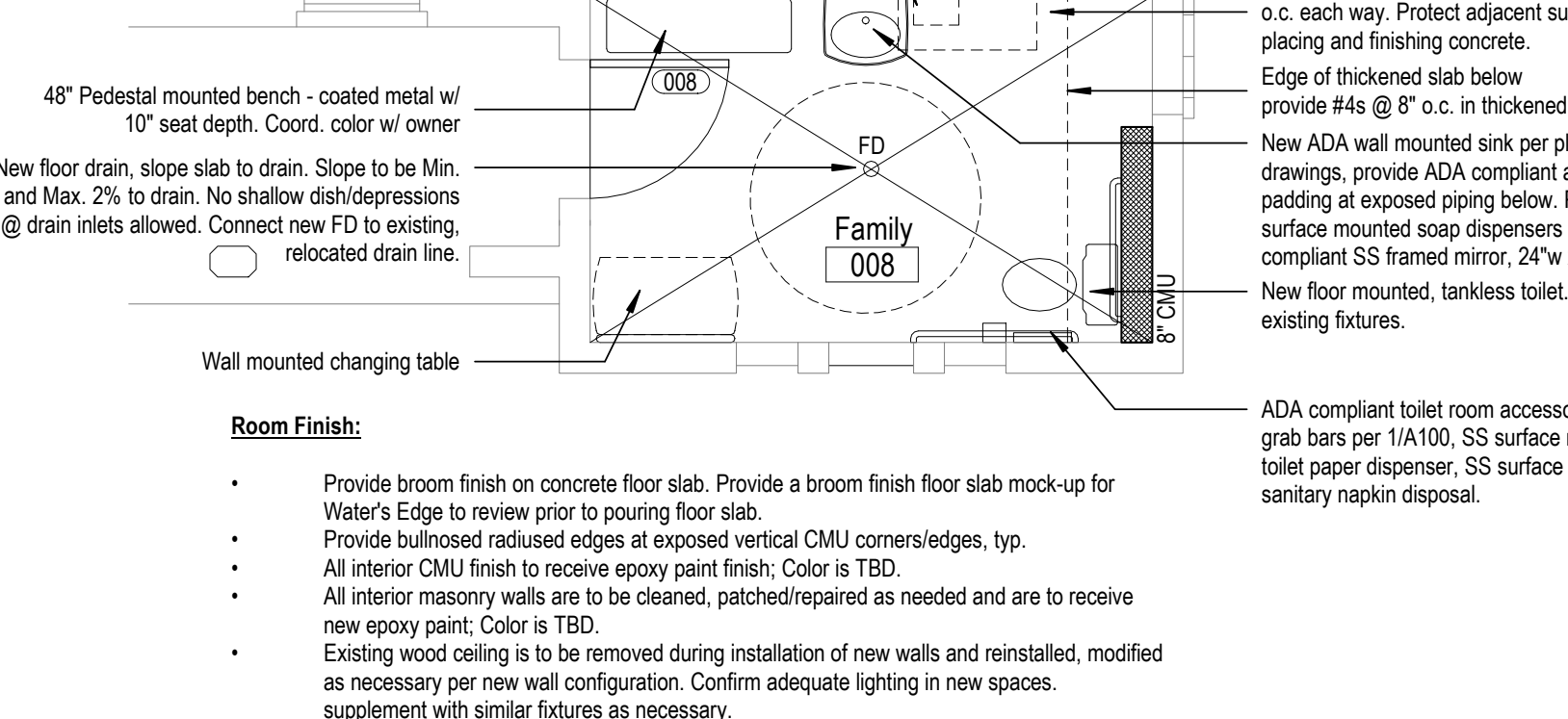


7
 1/4" = 1'-0"
 Demolition Plan - West

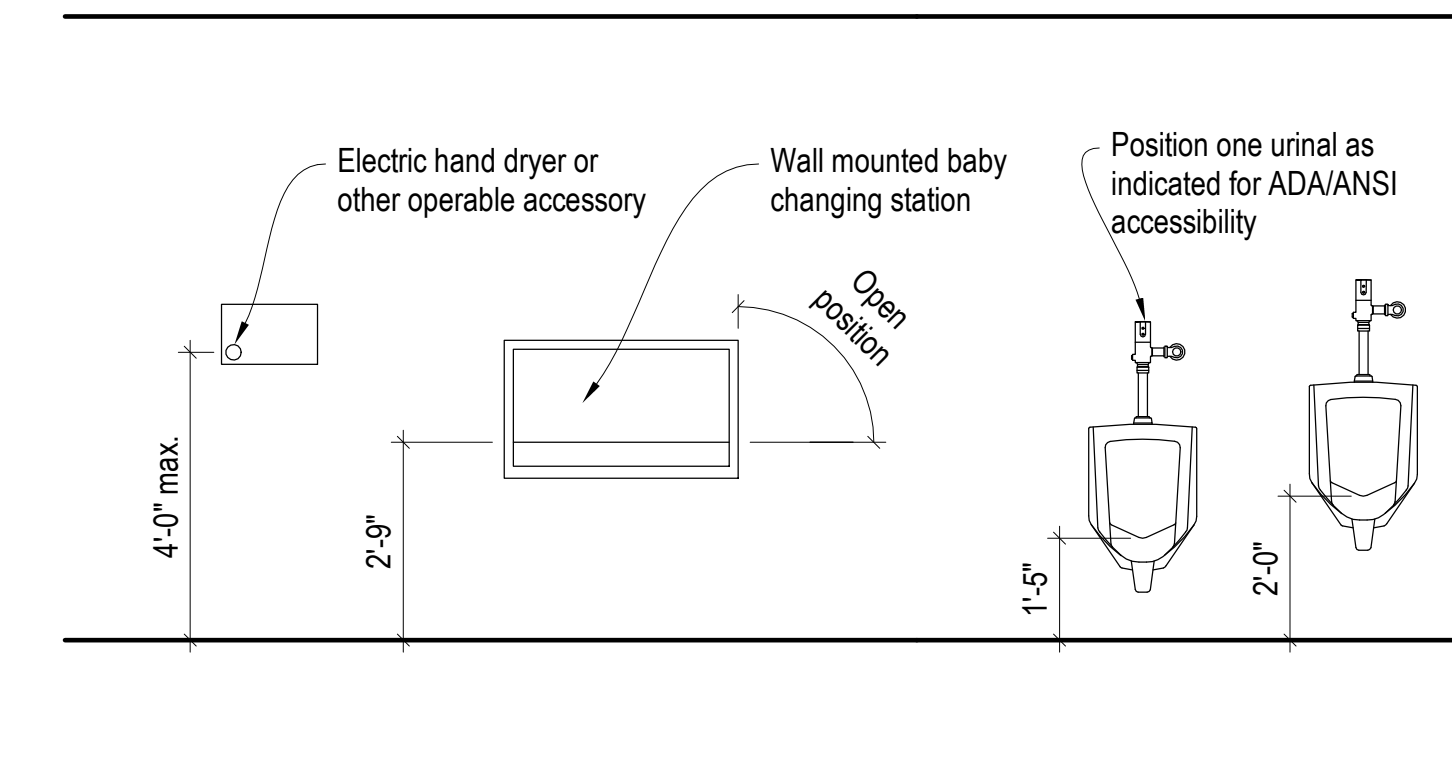
8
 1/4" = 1'-0"
 Demolition Plan - East



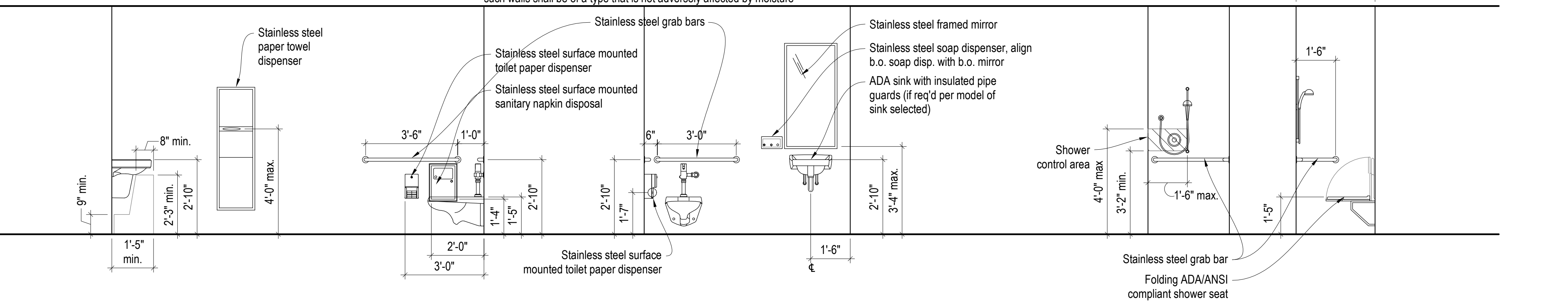
4
 1/4" = 1'-0"
 New Floor Plan - West



5
 1/4" = 1'-0"
 New Floor Plan - East



1
 3/8" = 1'-0"
 ADA Interior Elevations Mounting Heights



Note: per IBC 1210.2, walls within 2 feet of urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of 4 feet above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture

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
	PRESSURE GAUGE
	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
	SMOKE 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 AHU-1)
	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 LIGHT 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. UNL.)
	#14'S (WIRE NUMBER INDICATED)
	#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
	FULL 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, W=WALL, F=FLOOR)
	KEY PAD

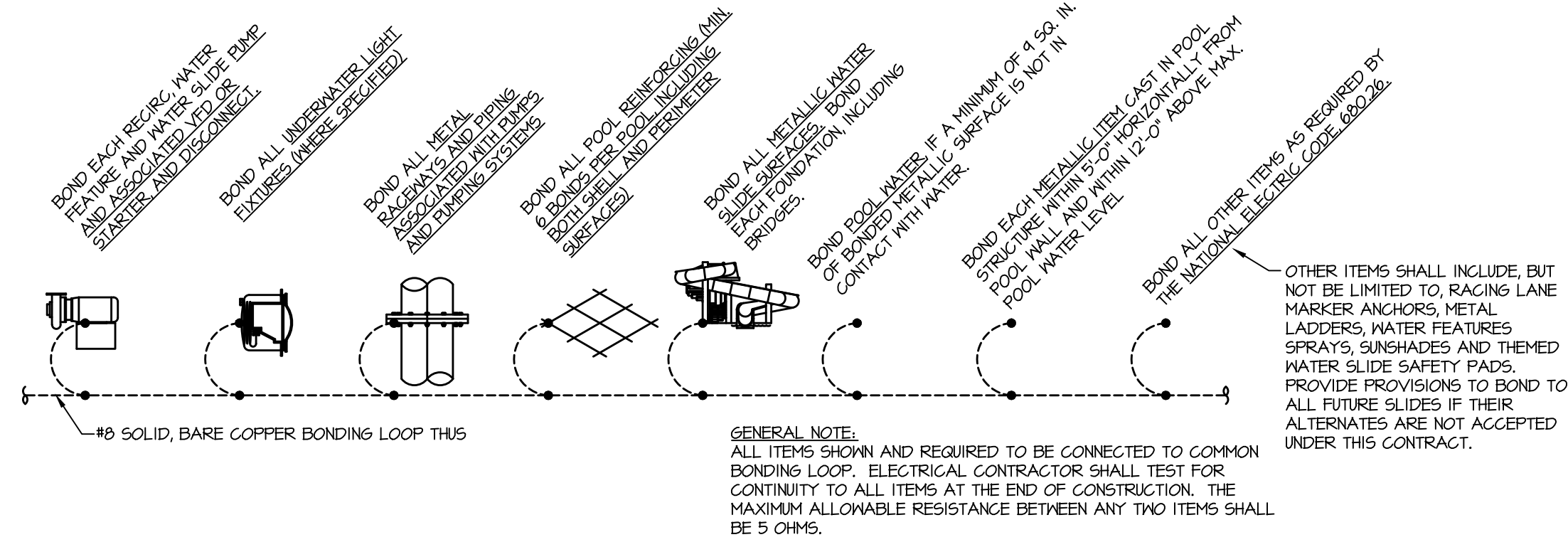
ABBREVIATIONS

A	AMPS: AIR (COMPRESSED)
A/C	AIR CONDITIONING
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
APD	AIR PRESSURE DROP
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT
AW	ACID WASTE
AW	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
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDUIT
CT	CURRENT TRANSFORMER
CAV	CABLE TELEVISION SYSTEM
CAY	CONSTANT AIR VOLUME
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONTRACTOR
CFGI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFM	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CO2	CARBON DIOXIDE
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CS	COOLING TOWER SUPPLY
CU	COPPER CONDENSING UNIT
CU	CABINET UNIT HEATER
CW	COLD WATER
CNR	CHILLED WATER RETURN
CNS	CHILLED WATER SUPPLY
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DOT	DOUBLE-POLE DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
E/C	ELECTRICAL CONTRACTOR
EB	ENTERING DRY BULB
EFB	EXHAUST FAN
EJ	EXPANSION JOINT
ESP	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
ETB	ENTERING WET BULB
EW	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FCD	FLOOR CLEANOUT
FCU	FAN COOL UNIT
FF	FIRE DAMPER FLOOR DRAIN
FF	FINISHED FLOOR
FCCO	FINISHED GRADE CLEANOUT
FL	FLOW LINE
FLA	FILL LOAD AMPS
F/C	FIRE PROTECTION CONTRACTOR
FU	FAN TERMINAL UNIT
FVNR	FULL VOLTAGE, NON-REVERSING
G	NATURAL GAS
G/C	GENERAL CONTRACTOR
GND	GROUND FAULT INTERRUPTER
GND	GROUND
GPM	GALLONS PER HOUR
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
HTS	HEATING
HTR	HEATER
HNR	HOT WATER RETURN
HNS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INFEET ELEVATION
IG	ISOLATED GROUND
IN, INC	INCHES OF WATER COLUMN INCANDESCENT
kcmil	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KWH	KILOWATT
KWH	KILOWATT-HOUR
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPG	LIQUIFIED PETROLEUM GAS (PROPANE)
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
M/C	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILS
MD	MOTORIZED DAMPER
MDF	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MAIN LINES ONLY
MLO	MANHOLES/METAL HALIDE
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	NITROUS OXIDE
NO	NORMALLY OPEN, NORMALLY CLOSED

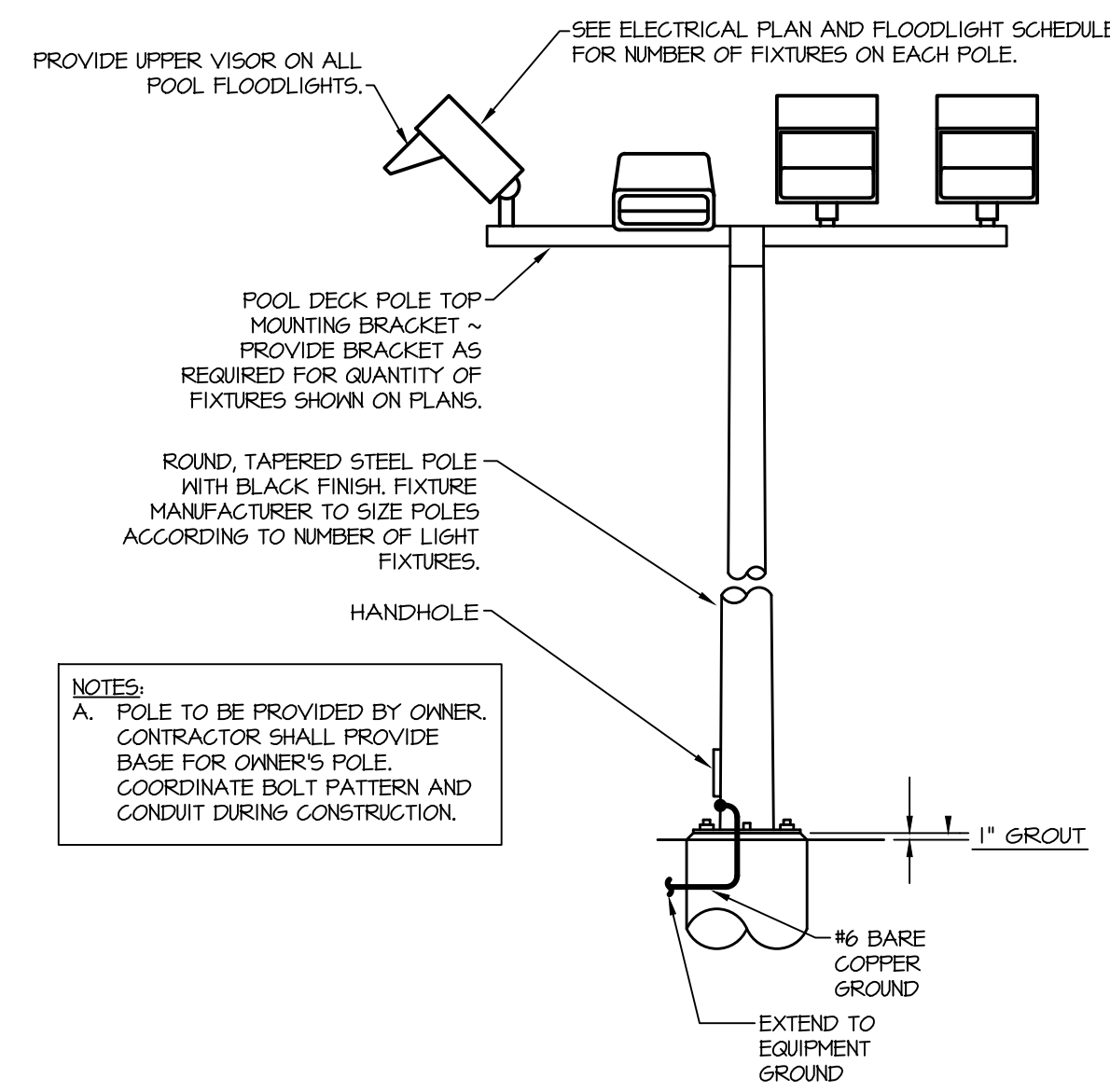
O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OCFI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFD	OVERFLOW ROOF DRAIN
PA	PIPE ANCHOR
PCNR	PRIMARY CHILLED WATER RETURN
PCNS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP (FEET OF WATER)
PH	PHASE
PHNR	PRIMARY HEATING WATER 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
RA	RETURN AIR
RC	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
RFAN	RETURN FAN
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK
SA	STEAM SUPPLY AIR
SAN	SANITARY SEWER
SCNR	SECONDARY CHILLED WATER RETURN
SCNS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, STORM DRAIN
SD	SUPPLY FAN
SHNR	SECONDARY HEATING WATER RETURN
SHNS	SECONDARY HEATING WATER SUPPLY
SPST	SINGLE-POLE SINGLE-THROW
SP	STATIC PRESSURE
SQFT	SQUARE FEET/SQUARE FEET
START/STOP	START/STOP
SS	SERVICE SINK, STAINLESS STEEL
ST	STORM DRAIN, SOUND TRAP, STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SW	SOFT WATER
SWBD	SWITCHBOARD
T	TEMPERED WATER
TG	TEMPERATURE GAUGE
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
TH	THERMOSTAT
TSTAT	TRISTAT
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
NCO	WALL CLEANOUT
WC	WATER COLUMN, WATER CLOSET
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
XFMR	TRANSFORMER
XP	EXPLOSION-FROOF

GENERAL	
	HEAVY LINEWEIGHT INDICATES NEW WORK
	CONNECT NEXT 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
	AREA OF ENLARGEMENT
	PLAN NUMBER
	SHEET WHERE ENLARGED PLAN IS DRAWN

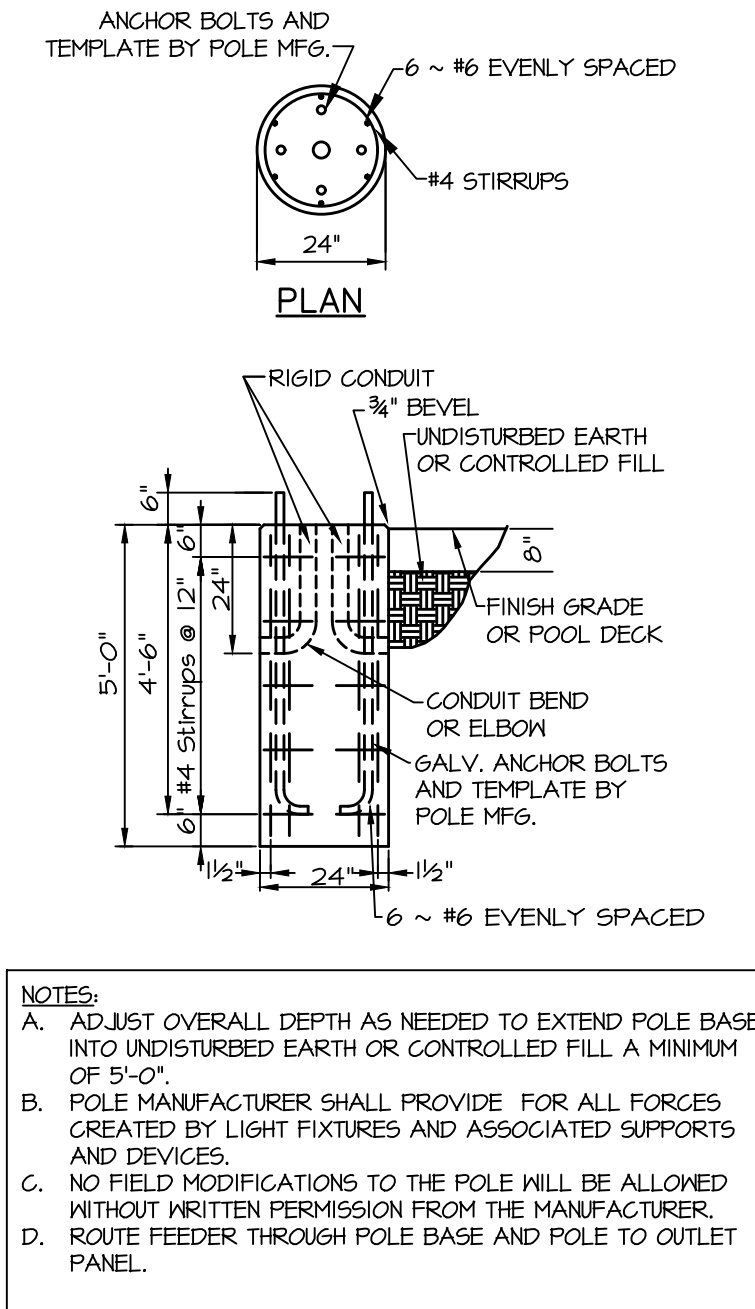
THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS. THE SYMBOLS ON THIS SHEET SHALL APPLY TO MECHANICAL AND ELECTRICAL SHEETS.



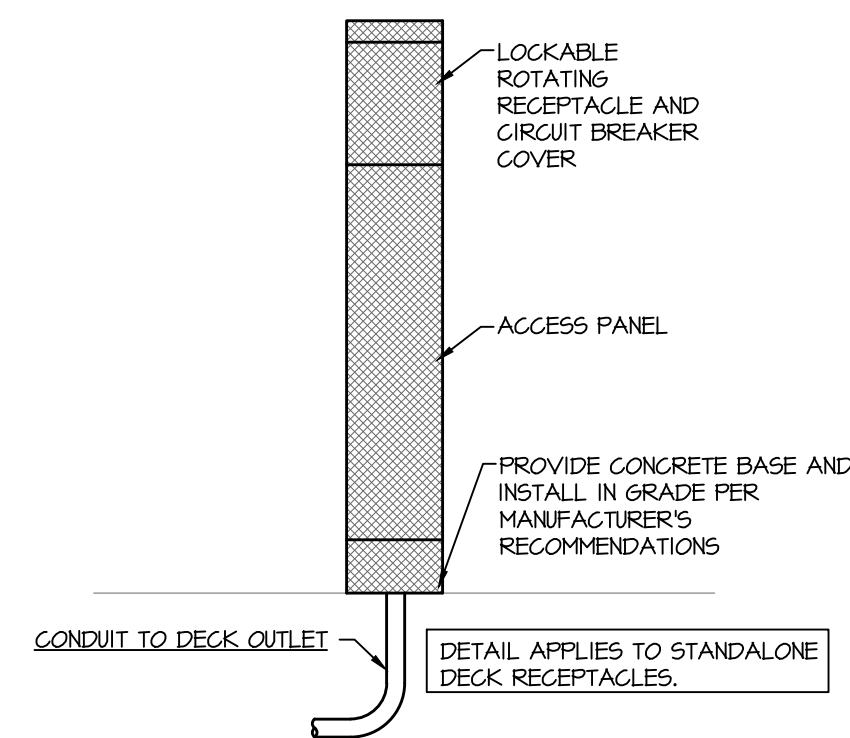
2 Equipotential Bonding Schematic
Scale: None



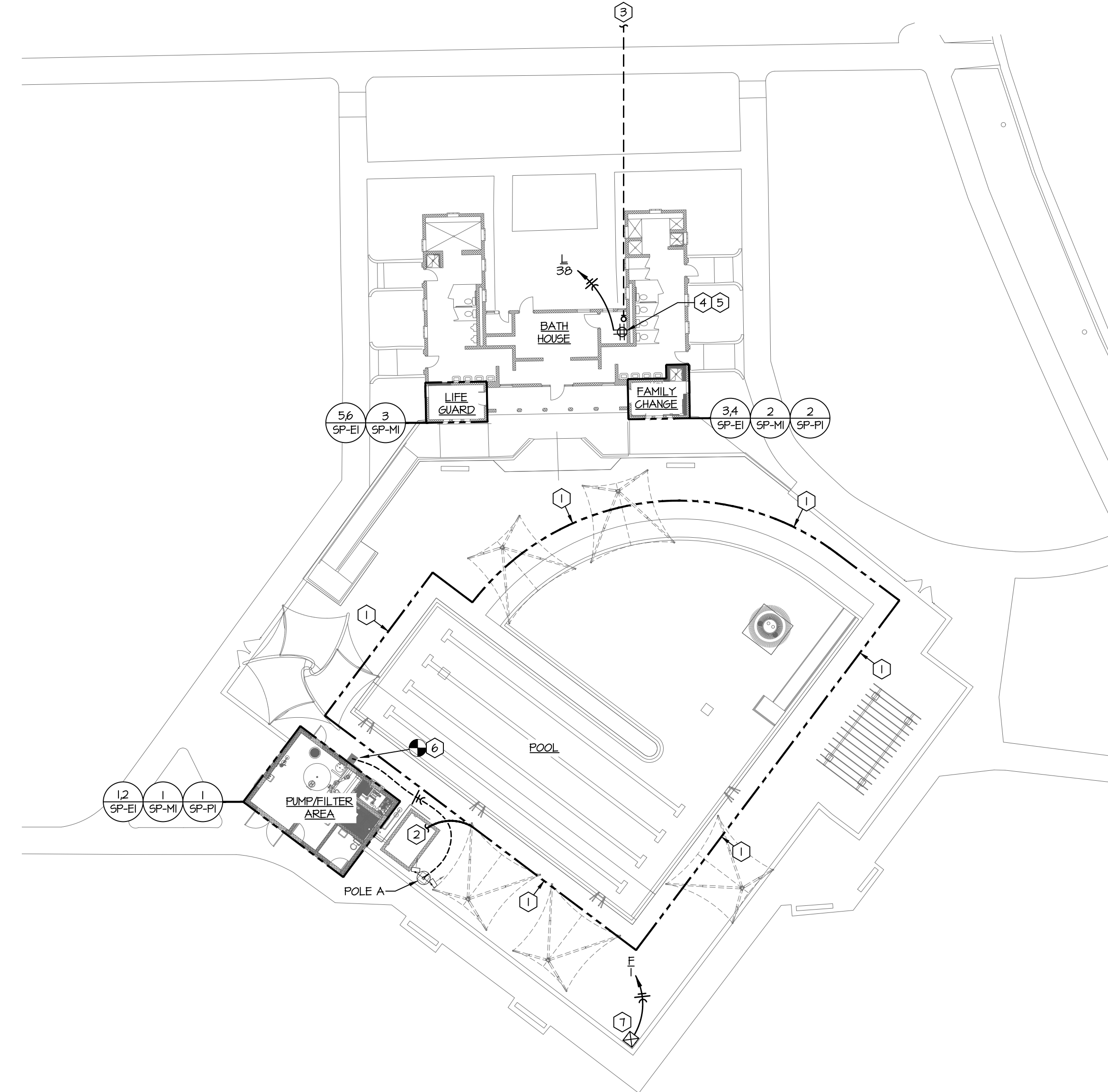
4 Pool Floodlight Pole Detail
Scale: None



3 Pool Floodlight Pole Base Detail
Scale: None



5 Pedestal Deck Receptacle Detail
Scale: None



FLOODLIGHT FIXTURE SCHEDULE															
POLE	MANUF.	MODEL	340W HEADS	600W HEADS	TOTAL HEADS	BALLAST TYPE	VOLTS	MOUNTING	EMERG BUTTON	DECK RCPT	SPEAKER HOLE	MIC HOLE	ANTENNA HOLE	TOTAL WATTS	NOTES
A	LITHONIA	HLFI-P4-40K-WFL-1VOLT-15-UBV	2	0	2	ELECTRONIC	UNV	POLE MOUNTED	NO	NO	NO	NO	NO	680	-

NOTES:

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. FLOODLIGHT HEADS TO BE YOKE MOUNTED ON 30" POLES. POLES SHALL BE BLACK IN COLOR, CONSULT POOL DESIGNER TO VERIFY COLOR PRIOR TO ORDERING.

B. ALL FLOODLIGHTS ON POLE SHALL HAVE MANUFACTURER'S UPPER VISOR.

C. FIXTURES SHALL BE AIMED AT 45 DEGREES DOWN FROM THE HORIZONTAL PLANE.

D. 340W HEADS ARE SECURITY FIXTURES.

GENERAL NOTES:

THE FOLLOWING NOTES SHALL APPLY TO ALL WORK SHOWN ON SHEETS SP-ME1, SP-ME2, SP-MI, SP-PI, SP-EI, 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 THWN.
- JUNCTION, PULL, RECEPTACLE, AND LIGHT FIXTURE BOXES SHALL BE PVC.
- ALL FLUSH WIRING DEVICES SHALL BE PROVIDED WITH JIMBO PAGES # 4 SEMI-CUR STAINLESS STEEL COVER PLATES. COVER PLATES FOR WIRING 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:

- #8 SOLID BARE COPPER SPRAY-GROUND BONDING LOOP. BOND ALL METALLIC ITEMS AS REQUIRED BY THE NATIONAL ELECTRIC CODE, 680.26. INSTALL BONDING LOOP 18" x 24" FROM INSIDE FACE OF POOL AND 4'-6" 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 TWO (2) 2" CONDUITS WITH FULL STRING FOR DATA. ROUTE TO SERVICE PEDESTAL, COORDINATE PROVIDER AND EXACT LOCATION OF CONDUIT STUD-UP WITH OWNER DURING CONSTRUCTION.
- PROVIDE HALL-MOUNTED NEMA 3R ENCLOSURE FOR IT EQUIPMENT AND PROVIDE DEDICATED CIRCUIT TO QUAD RECEPTACLE WITHIN ENCLOSURE. COORDINATE REQUIRED ENCLOSURE SIZE WITH INTERNET SERVICE PROVIDER. ENCLOSURE SHALL BE LARGE ENOUGH TO ACCOMMODATE ISP EQUIPMENT AND AN 8-PORT SWITCH. CONFIRM ENCLOSURE LOCATION AND MOUNTING HEIGHT WITH OWNER.
- PROVIDE (1) CAT6 PLENUM RATED DATA CABLE WITHIN 3/4" C. FROM IT ENCLOSURE TO THE CHEMICAL CONTROLLER IN THE PUMP/FILTER AREA, TO WIRELESS ACCESS POINTS TO ALLOW FOR PUBLIC WI-FI, AND TO POINT OF SALE STATIONS. CONDUIT SHALL BE ROUTED CLEANLY. CONFIRM LOCATIONS AND ROUTING WITH OWNER PRIOR TO CONSTRUCTION. CABLE SHALL BE BLUE 23/4 SOLID CU CAT6 PLENUM RATED DATA CABLE BY SOUTHWIRE, MODEL 56418044 OR EQUAL.
- CONTRACTOR SHALL PROVIDE CONNECTION TO EXISTING EXTERIOR LIGHT FIXTURE. POLE LIGHT FIXTURES SHALL OPERATE ON THE SAME SCHEDULE AS THE EXISTING BUILDING EXTERIOR LIGHTING. CONFIRM THE CIRCUIT IS ROUTED THROUGH THE EXISTING LIGHTING CONTRACTOR AND PHOTOCELL LOCATED IN THE BATHHOUSE. FEEDER SHALL BE (2) #8 & #10G, IN 1" CONDUIT.
- DECK RECEPTACLE - PROVIDE PEDESTAL MOUNTED POWER OUTLET PANEL TYPICAL OF SQUARE D SERVICE PAK IIC WITH (2) 20A, 120V RECEPTACLES. ENCLOSURE SHALL BE NEMA-3R AND RECEPTACLE SHALL BE GFI PROTECTED. REFERENCE PEDESTAL DECK RECEPTACLE DETAIL ON THIS SHEET FOR MORE INFORMATION. FEEDER SHALL BE (2) #4 & #10G, IN 1" CONDUIT.

waters edge AQUATIC DESIGN

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WICHITA, KANSAS
Spray Ground
COLLEGE HILL PARK

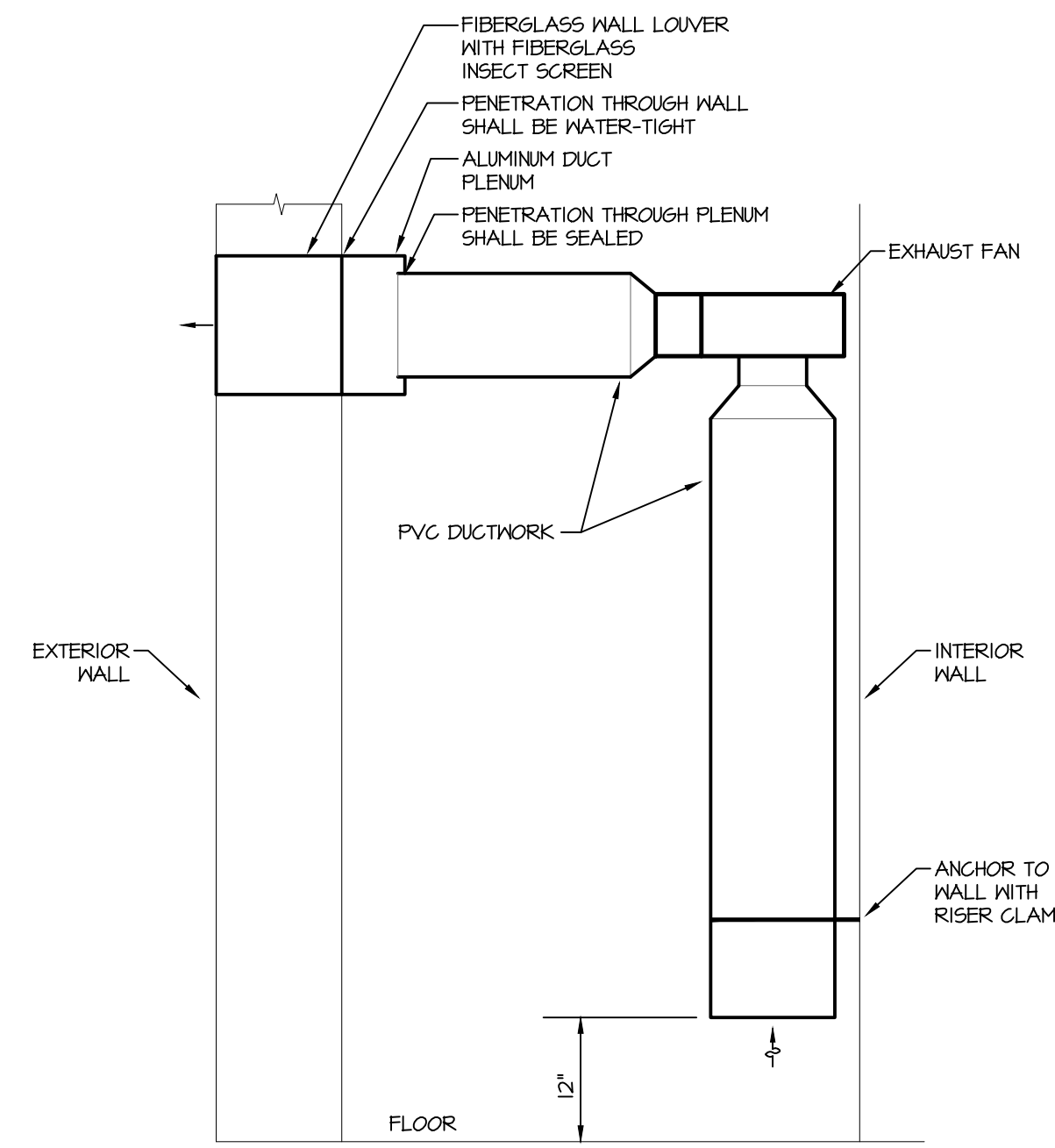
CITY OF WICHITA

Seal: **CASEY STEINER**
LICENSED PROFESSIONAL ENGINEER
10/20/21

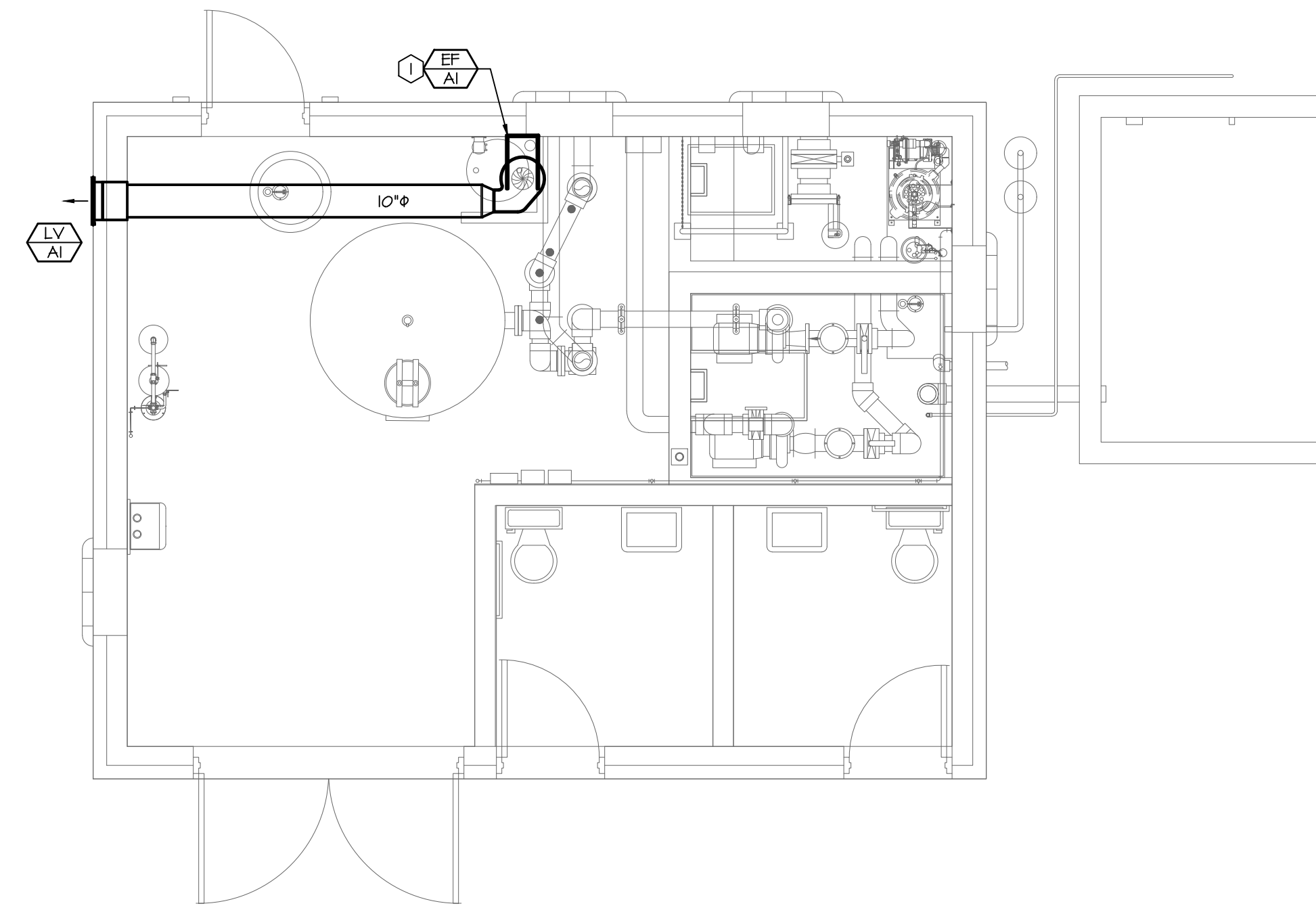
CASEY JOHN STEINER
LICENSE #19423
Date: 10-20-21 Job #: 18-512
Drawn: CDW Checked: CJS
Issue: CONSTRUCTION DOCUMENTS

MEP SITE PLAN

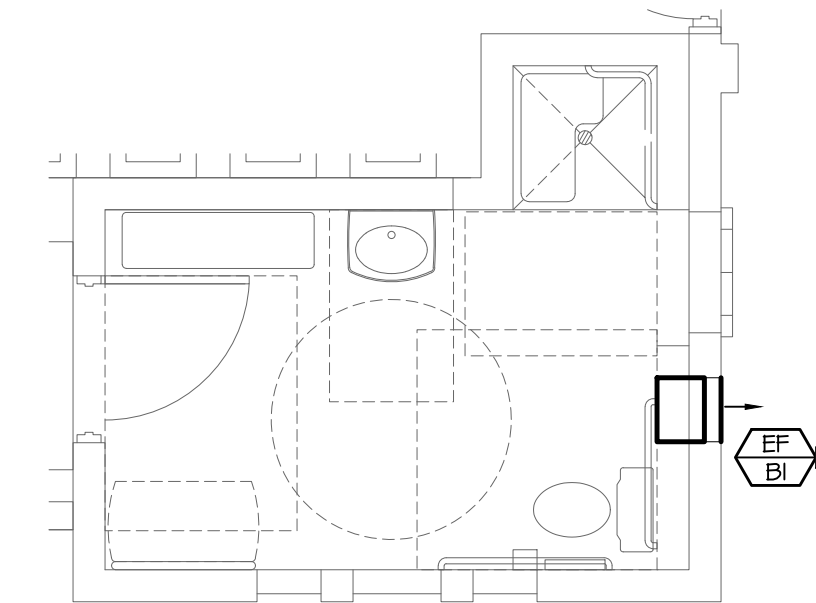
SP-ME2
Water's Edge Aquatic Design
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3 Chemical Exhaust Fan Detail
Scale: Not to Scale



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



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

EXHAUST FAN SCHEDULE										
MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	RPM	WATTS	HP	V/PH	NOTES
EF-AI	FANAM	GBI-200	650	0.5	DIRECT	1125	-	1/4	120/1	12
EF-BI	COOK	GBF	200	0.4	DIRECT	-	Ø2	-	120/1	3,4

NOTES:

- FAN HOUSING AND WHEEL SHALL BE CONSTRUCTED OF POLYPROPYLENE.
- PROVIDE FAN WITH MANUFACTURER'S DISCONNECT SWITCH.
- PROVIDE FAN WITH MANUFACTURER'S SPEED CONTROLLER.
- PROVIDE FAN WITH MANUFACTURER'S SECOND GRILLE.

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	RUSKIN	5F640	EXHAUST	18x18	650	0.65	0.20	1	

PLAN NOTES:

- PROVIDE FIBERGLASS LOUVER WITH FIBERGLASS INSECT SCREEN.

GENERAL NOTES:

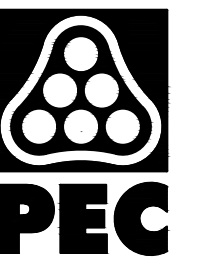
- PROVIDE MOUNTING FRAME TO MATCH CONSTRUCTION.
- CUSTOM COLOR TO BE SELECTED BY ARCHITECT DURING THE SUBMITTAL PROCESS.
- PROVIDE ALL FASTENERS, HANGERS, AND ASSOCIATED DEVICES REQUIRED FOR COMPLETE INSTALLATION.

GENERAL NOTES:

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

PLAN NOTES:

- PROVIDE CENTRIFUGAL FAN AS SCHEDULED MOUNTED HIGH IN MECHANICAL ROOM. PROVIDE 10" PVC PIPE DOWN TO APPROXIMATELY 8" AFF. JOG DUCTWORK TO BE TIGHT AGAINST WALLS IN CORNER TO ALLOW FOR REMOVAL OF CHEMICAL CONTAINERS WHEN REQUIRED. DISCHARGE DUCTWORK SHALL HAVE FLEXIBLE CONNECTION. PROVIDE 10" PVC DISCHARGE PIPE AND EXTEND TO LOUVER AS HIGH AS POSSIBLE. COORDINATE INSTALLATION OF INTAKE DUCTWORK WITH POOL ENGINEER.
- PROVIDE CINDER BLOCK FAN AS SCHEDULED MOUNTED APPROXIMATELY 8" AFF. FAN SHALL BE ORIENTED TO EXHAUST AIR FROM THE ROOM. THE FAN SHALL BE PROVIDED WITH MANUFACTURER'S SPEED CONTROLLER AND SECOND GRILLE. FAN SHALL OPERATE WITH ROOM LIGHTING. COORDINATE INSTALLATION WITH THE ELECTRICAL CONTRACTOR.



WICHITA, KANSAS
Spray Ground
COLLEGE HILL PARK



CASEY JOHN STEINER
LICENSE #19423

Date: 10-20-21 Job #: 18-512

Drawn: CDW Checked: CJS

Issue: CONSTRUCTION DOCUMENTS

MECHANICAL PLAN,
DETAILS &
SCHEDULES

SP-M1

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS					NOTES
					CW	HW	TW	W	V	
WC-1	ADA FLOOR MOUNTED WATER CLOSET WITH 1.6 GPF MANUAL FLUSH VALVE	AMERICAN STANDARD CRANE TOTO	MADERA 2854.016 HYMONT 3HT01 CT05ELN	FLUSH VALVE: MODEL 6047.161 (INCLUDED) CHURCH 4500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT	1-1/2"	--	--	4"	2"	5
L-1	ADA HALL HING LAVATORY	AMERICAN STANDARD CRANE	LUCERNE 0355.012 HARVICH 1-412	FAUCET: F-1 GRID STRAINER CONCEALED ARM CARRIER	--	--	--	1-1/2"	1-1/2"	2, 3, 5
SH-1	ADA SURFACE MOUNTED AIR CONTROL SINGLE TEMPERATURE METERING	ACORN ENGINEERING	456BADA-W-FBH	SURFACE MOUNT SOAP DISH SUPPLY COVER TO CEILING	--	--	1/2"	2"	1-1/2"	1, 5
F-1	ADA HANDS FREE LAVATORY FAUCET	TOTO	TEL105-DIOE	0.5 GPM, SELF-GENERATING BATTERY, GRID STRAINER, COVERPLATE	--	--	1/2"	--	--	5
FD-1	1" ROUND FLOOR DRAIN	MADE ZURN SMITH	1100STD Z-415 2005	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	2"	2"	4
MV-1	THERMOSTATIC MIXING VALVE ASSE 101T, 106A	LEONARD	XL-690-LF	20F TO 240F THERMOMETER CONTROL LOCKING DEVICE 0.5 GPM MINIMUM FLOW	1"	1"	1-1/4"	--	--	4
RP-1	RECIRCULATION PUMP	BELL & GOSSETT ARMSTRONG TACO	ECOCIRC 20-10 ASTRO 250 008	1/2 HP, 120V STRAP-ON AQUASTAT 2.5 GPM, 15' HEAD	--	--	3/4"	--	--	4

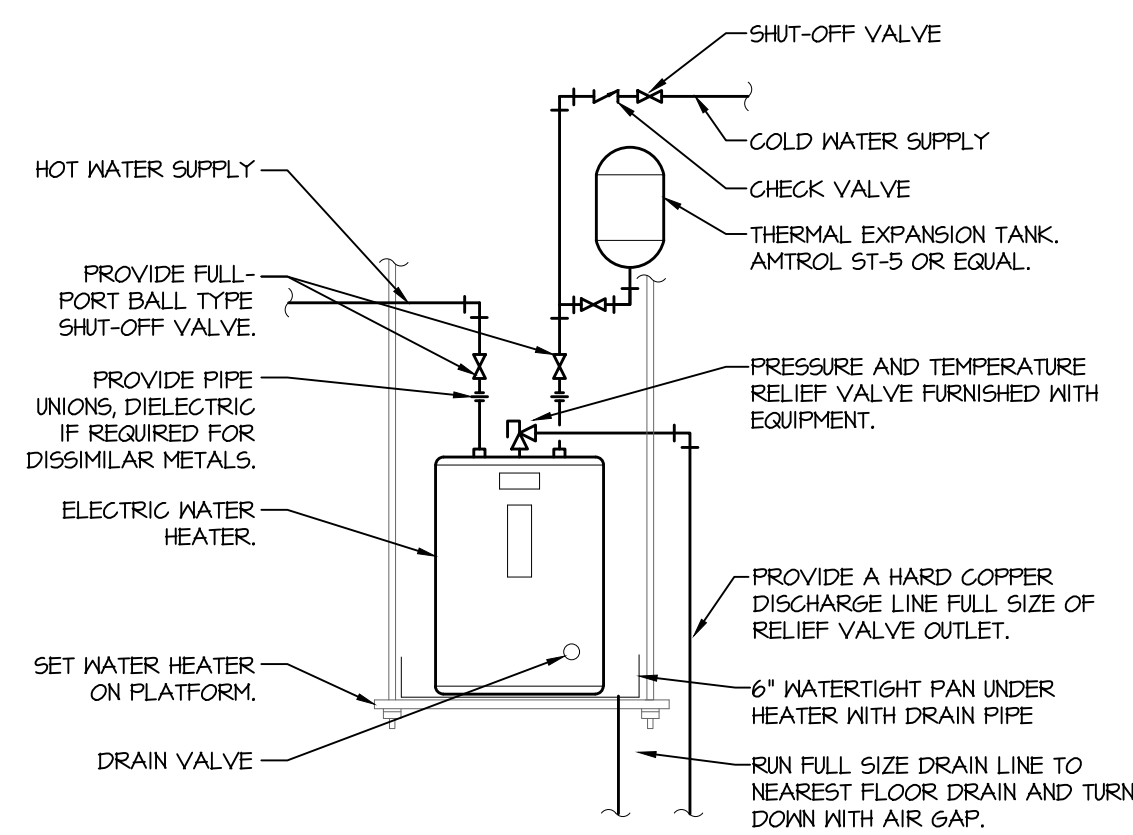
- NOTES:**
1. PROVIDE WINTERIZATION VALVE FOR SHOWER FIXTURES.
 2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.
 3. MOUNT WITH HANDICAPPED RECEPTOR RIM 34" ABOVE FLOOR.
 4. PIPE SIZE AS SHOWN ON DRAWING.
 5. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.

- GENERAL NOTES:**
- A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (kW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	BRADFORD WHITE	LD-50L3-3-1500N	47	1.5	7.0	120/1	
WH-2	BRADFORD WHITE	LD-50L3-3-1500N	47	1.5	7.0	120/1	

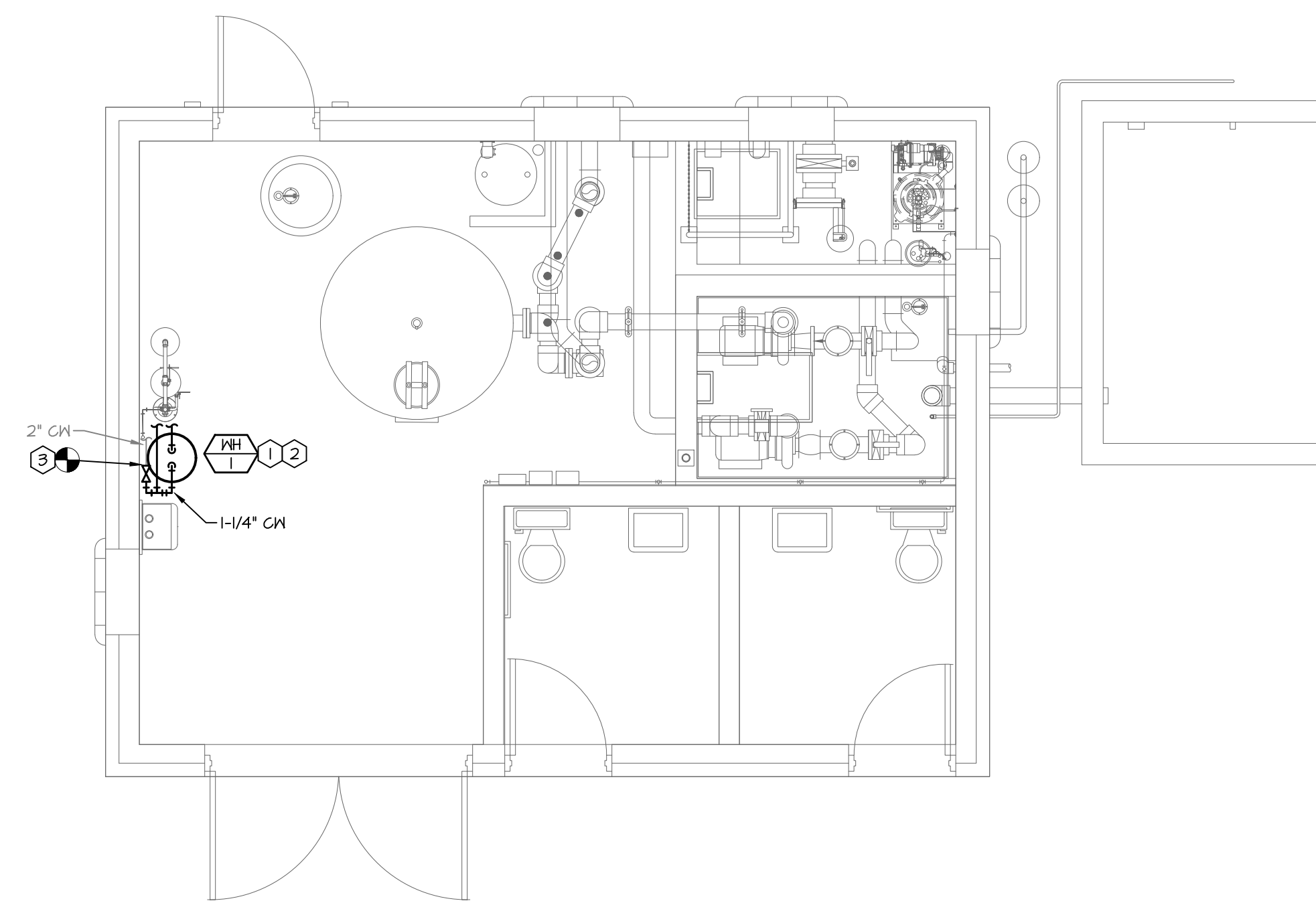
- GENERAL NOTES (APPLIES TO ALL ABOVE):**
- A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
 - B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.



- NOTES:**
1. PIPING ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS. REFER TO FLOOR PLANS FOR PIPE SIZES. SET HEATER THERMOSTAT AT 140F. PROVIDE CLEARANCES RECOMMENDED BY MANUFACTURER.

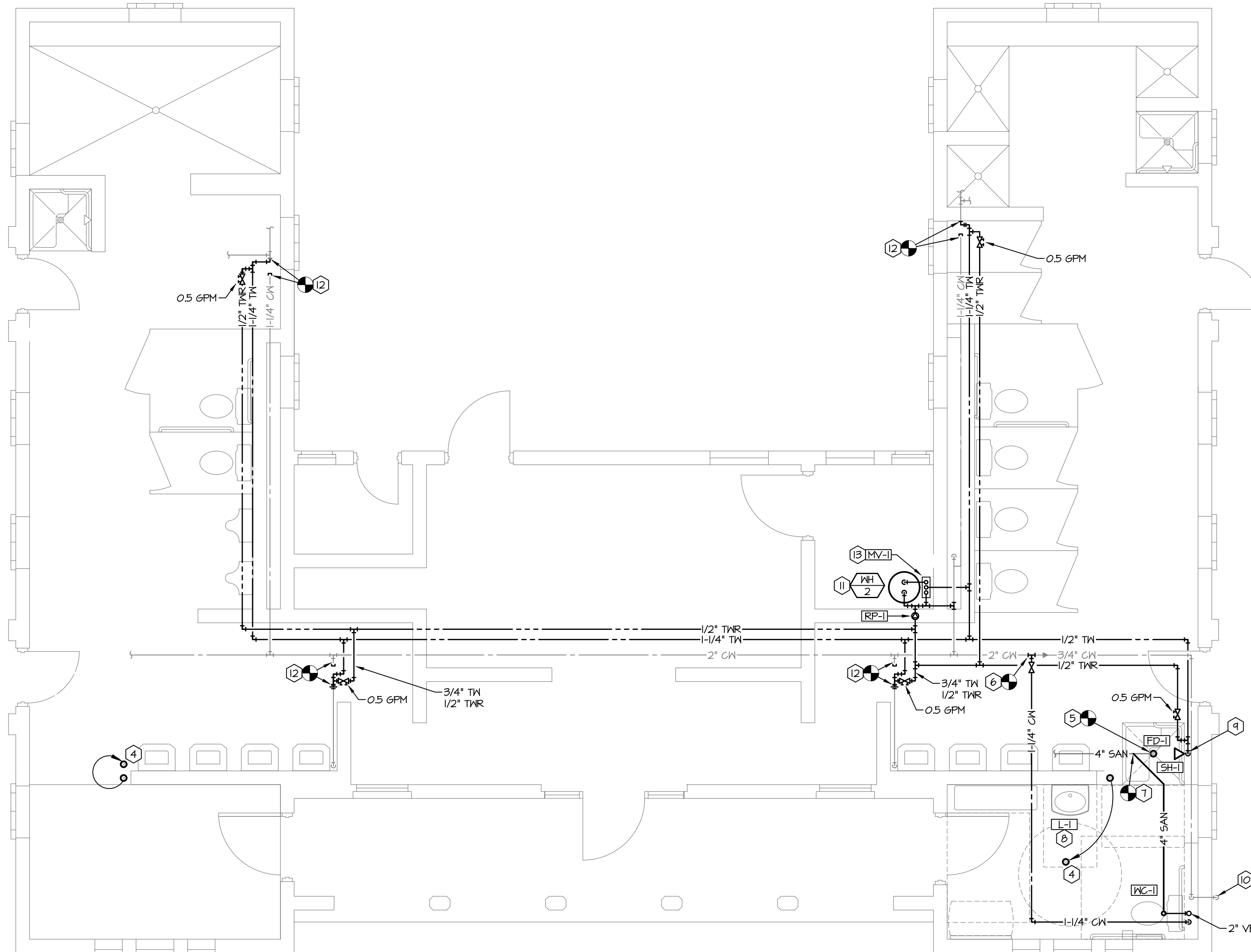
4 Water Heater Detail

Scale: Not to Scale



2 Filter Room Plumbing Plan

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



3 Bathhouse Plumbing Plan

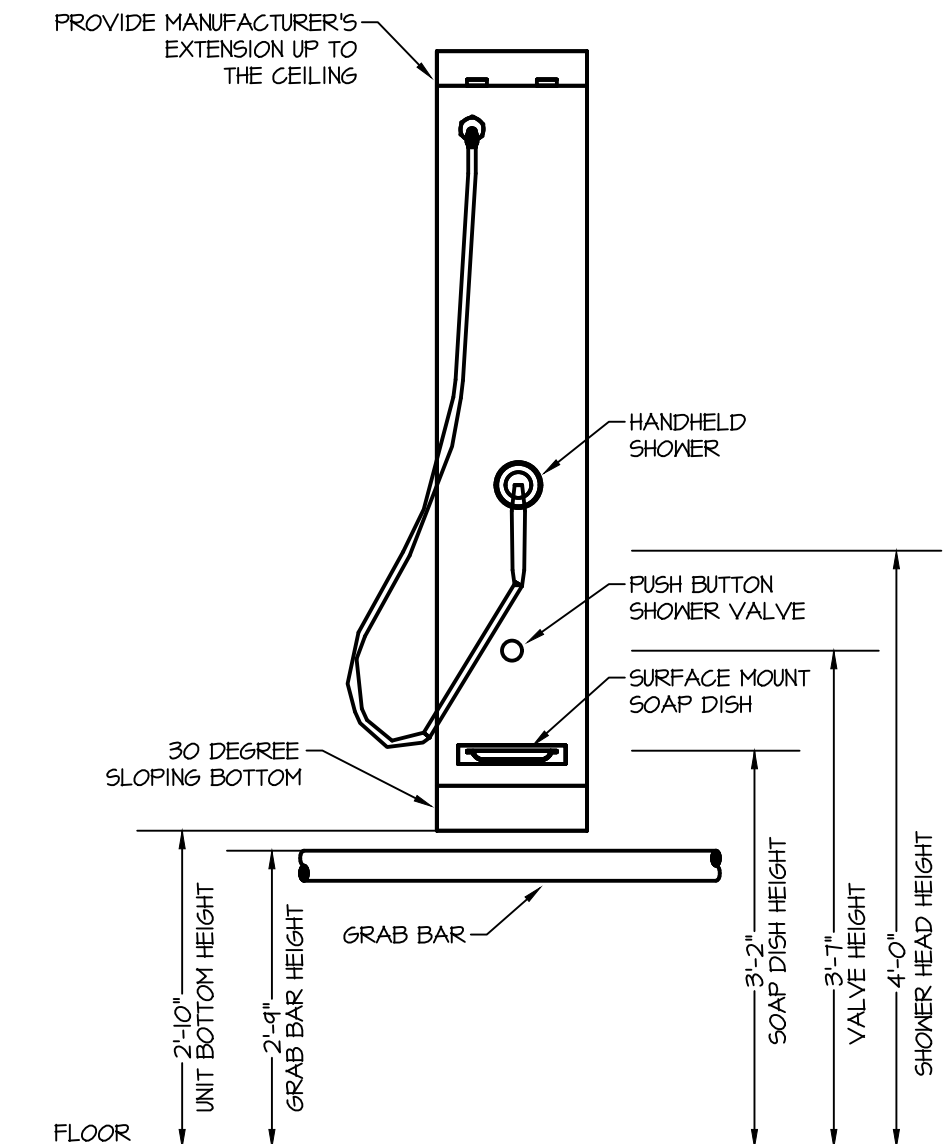
Scale: 1/4" = 1'-0"

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.
- H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
- I. SLOPE ALL DOMESTIC WATER PIPING TO LOW POINTS IN THE SYSTEM AND PROVIDE DRAINS TO ALLOW COMPLETE DRAINING FOR WINTER SHUT-DOWN. INSTALL AIR VALVE AT DISCHARGE OF BACKFLOW PREVENTER FOR SYSTEM BLOW-OUT. AT PROJECT CLOSE-OUT, PLUMBING CONTRACTOR SHALL PROVIDE INSTRUCTIONS TO OWNER FOR COMPLETE WINTERIZATION OF SYSTEM, INCLUDING REMOVAL OF BACKFLOW PREVENTION ASSEMBLY, MANUAL WATER REMOVAL FROM RISER TO BELOW FROST-LINE AND WINTERIZATION OF TRAPS. THESE INSTRUCTIONS SHALL BE PROVIDED IN BOTH WRITTEN FORM AND PERFORMED ON-SITE IN THE PRESENCE OF AN OWNER'S REPRESENTATIVE.
- J. ALL CIRCUIT SETTERS IN HOT WATER RECIRCULATION LOOPS ARE TO BE SET FOR 0.5 G.P.M. UNLESS NOTED OTHERWISE.

PLAN NOTES:

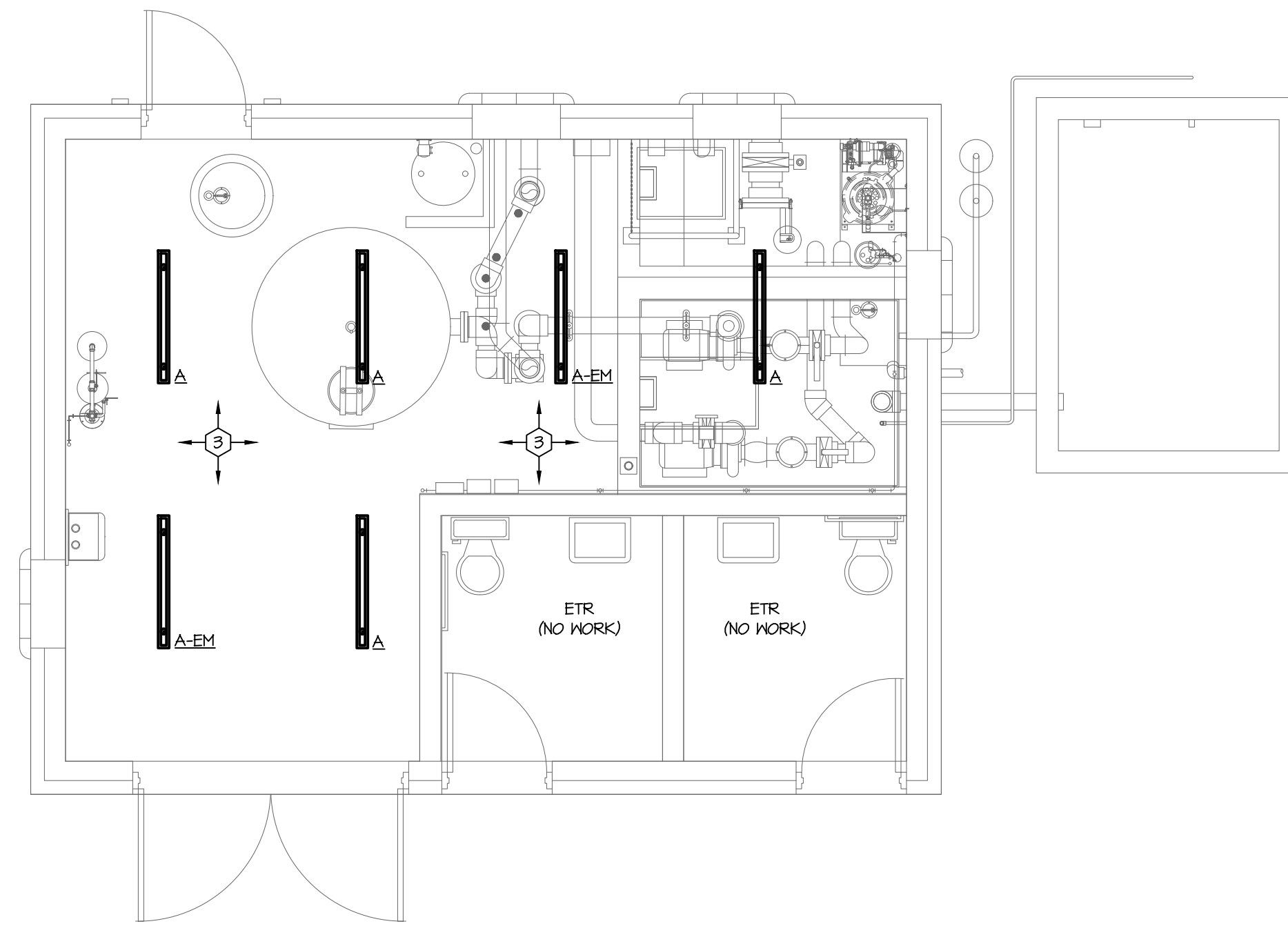
1. PROVIDE WATER HEATER SUSPENDED FROM THE NEW STRUCTURE DIRECTLY OVER THE EMERGENCY EYEWASH/SHOWER STATION OR LOCATED IMMEDIATELY ADJACENT. PROVIDE 1" HOT AND COLD WATER CONNECTION TO EMERGENCY MIXING VALVE AND SET THE OUTLET TEMPERATURE TO 100 DEG F. WATER HEATER TEMPERATURE SHALL BE SET TO 140 DEG F.
2. EXTEND DRAIN LINES FROM WATER HEATER TO CONCRETE FLUME ON EXTERIOR OF BUILDING, PLAN SOUTH OF THE WATER HEATER. THE DRAIN LINES SHALL BE ADJACENT TO THE SUMP PUMP DISCHARGE LINE.
3. PROVIDE NEW DOMESTIC COLD WATER LINE AS SHOWN AND MAKE CONNECTION TO NEW WATER HEATER.
4. RELOCATE EXISTING FLOOR DRAIN AS SHOWN TO ALLOW FOR THE NEW WALL TO BE BUILT. EXTEND SANITARY AND VENT LINES AS REQUIRED.
5. PROVIDE COMBINATION FLOOR DRAIN W/ CLEANOUT AS SCHEDULED. CONNECT TO EXISTING 4" SANITARY LINE IN THE IMMEDIATE VICINITY. EXTEND SANITARY AND VENT LINES AS REQUIRED.
6. PROVIDE NEW DOMESTIC COLD WATER LINE AS SHOWN AND MAKE CONNECTION TO NEW WATER CLOSET. PIPING SHALL BE LOCATED IN THE ATTIC.
7. PROVIDE NEW SANITARY LINE AS SHOWN AND MAKE CONNECTION TO NEW WATER CLOSET. PROVIDE VENT AS SCHEDULED AND ROUTE ADJACENT TO NEW DOMESTIC COLD WATER LINE IN THE ATTIC BEFORE CONNECTING INTO THE EXISTING VENT SYSTEM.
8. PROVIDE LAVATORY AS SCHEDULED. MAKE CONNECTIONS TO EXISTING WATER, VENT, AND WASTE LINES WITHIN HALL THAT SERVE THE EXISTING LAVATORIES OPPOSITE OF THE WALL.
9. PROVIDE SHOWER AS SCHEDULED. MAKE CONNECTION TO NEW TEMPERED WATER LINE ABOVE SHOWER.
10. RELOCATE EXISTING WINTERIZATION VALVE TO ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL TO ALLOW FOR ACCESS. ENCLOSURE SHALL BE LOCKED AND LABELED "WINTERIZATION VALVE ACCESS PANEL".
11. PROVIDE WATER HEATER ABOVE CEILING. DRAIN LINES SHALL BE EXTENDED TO NEAREST EXISTING HOBBS SHOWER STALL AND SHALL INDIRECTLY DRAIN APPROXIMATELY 0'-6" AFF. WATER HEATER TEMPERATURE SHALL BE SET TO 140 DEG F. PROVIDE ISOLATION VALVES FOR ALL PIPES CONNECTED TO THE WATER HEATER.
12. AT THIS APPROXIMATE LOCATION MODIFY THE COLD WATER PIPING AS SHOWN SO THAT THE EXISTING PIPING THAT SERVES THE FIXTURES DOWNSTREAM ARE CONNECTED TO THE NEW TEMPERED WATER LINE. PROVIDE TEMPERED WATER RECIRCULATION LINE AND CIRCUIT SETTER AS SHOWN. CAP COLD WATER LINE ABOVE CEILING AS SHOWN.
13. PROVIDE MIXING VALVE ABOVE CEILING. MIXING VALVE OUTLET TEMPERATURE SHALL BE SET TO 110 DEG F.



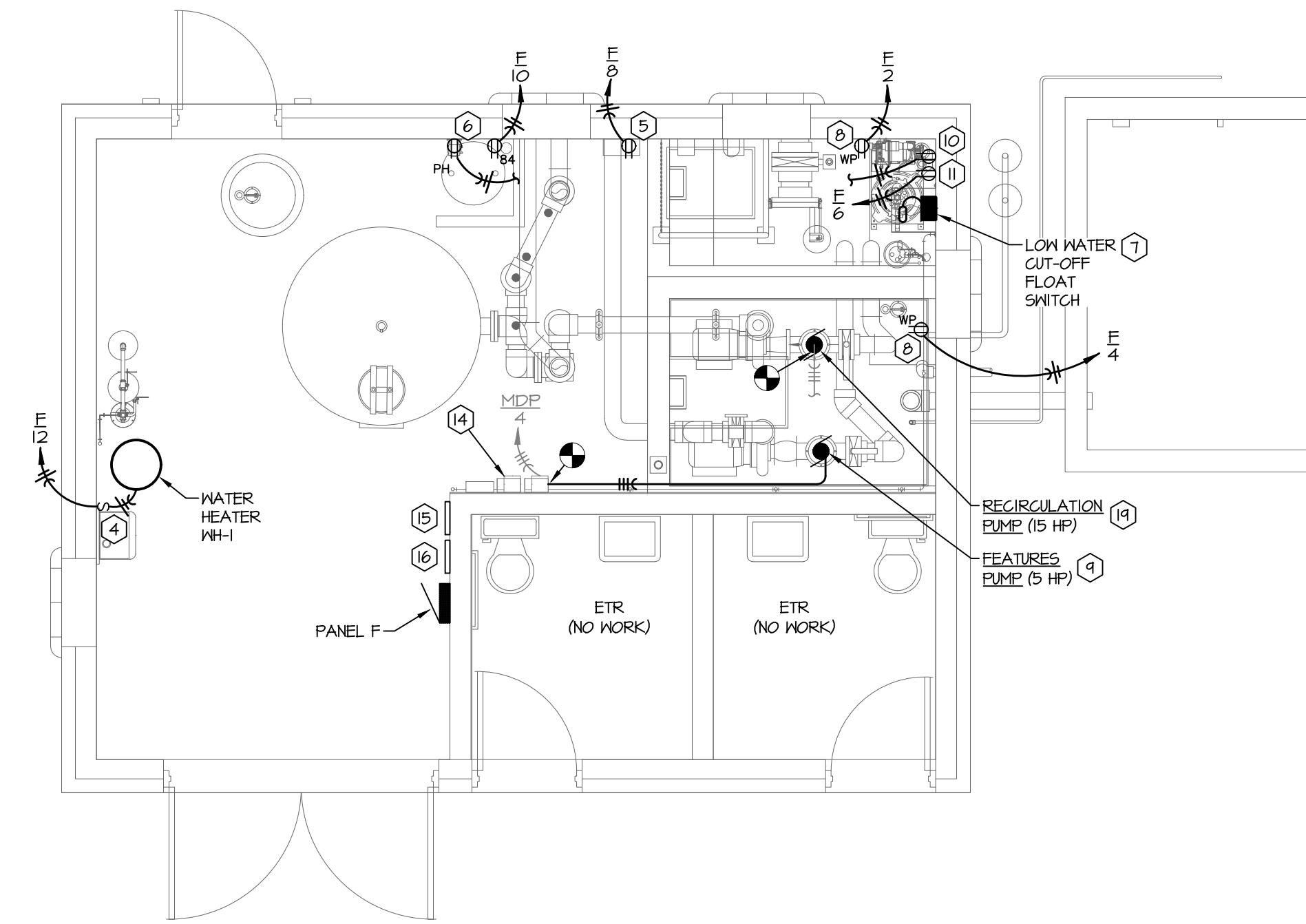
1 ADA Shower Detail

Scale: Not to Scale

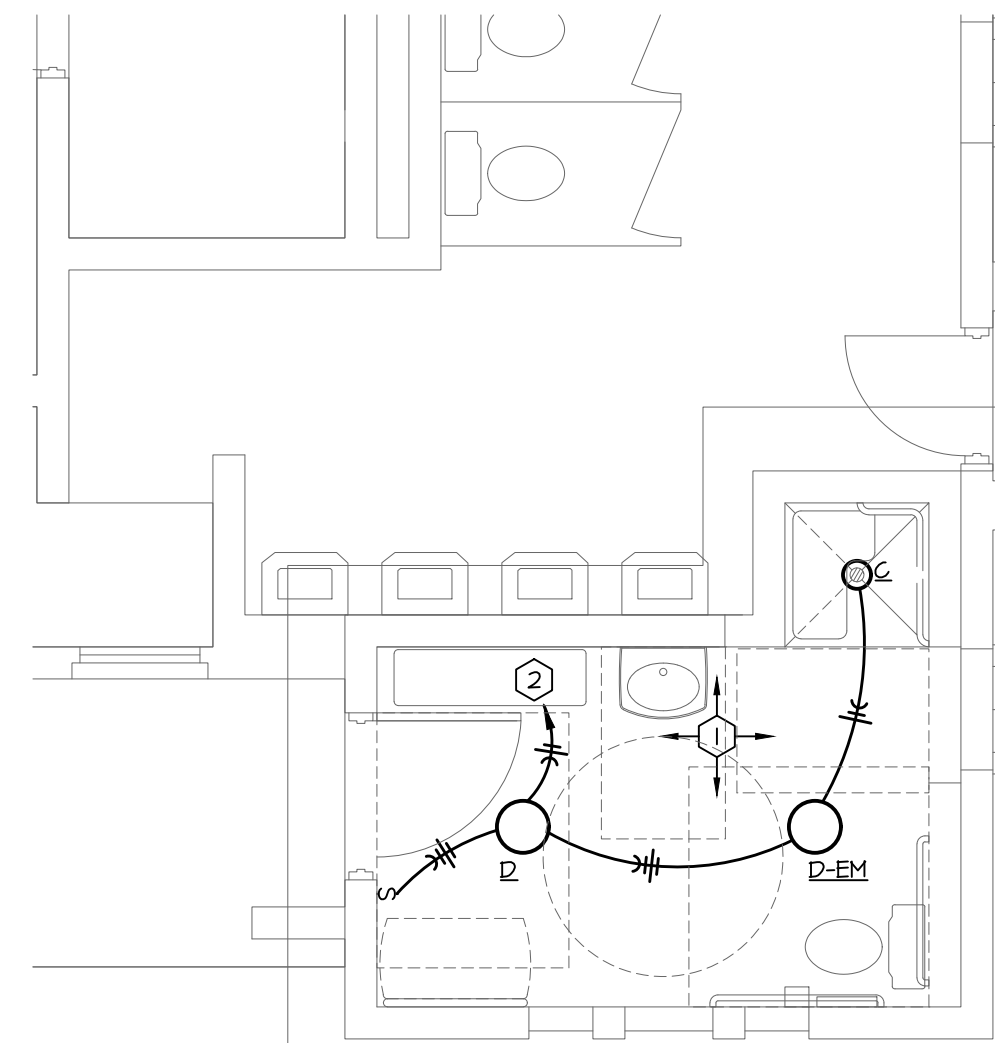




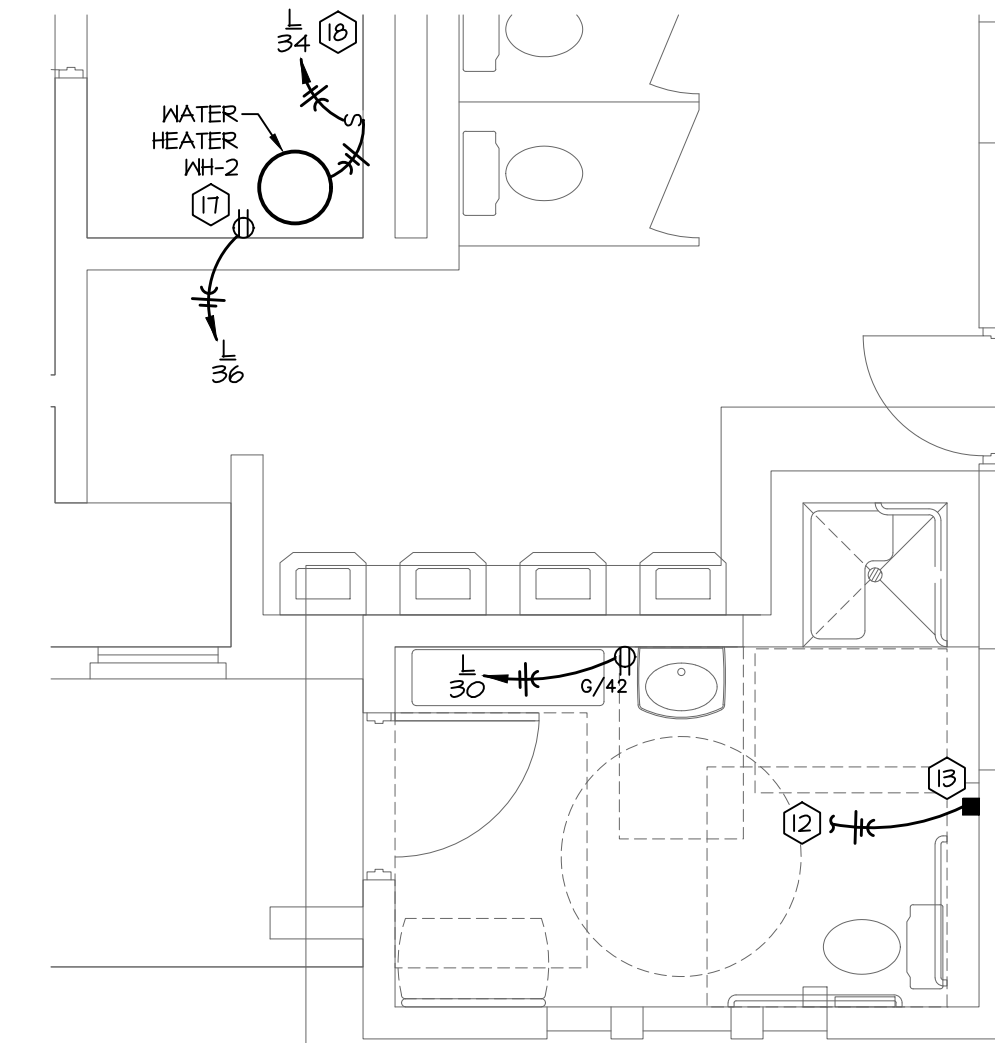
2 Filter Room Lighting Plan
Scale: 1/4" = 1'-0"



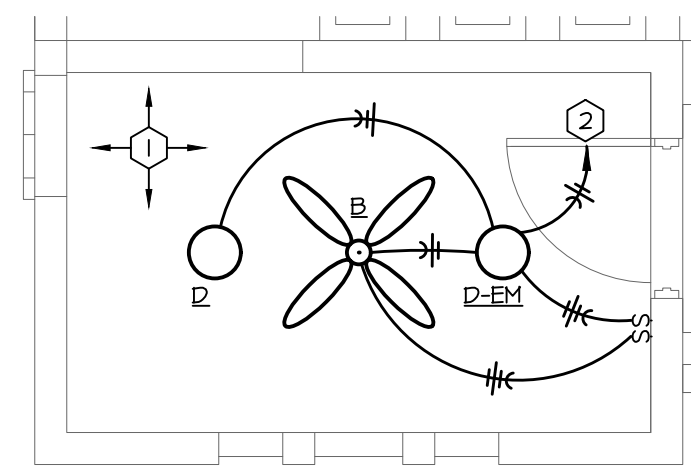
1 Filter Room Power Plan
Scale: 1/4" = 1'-0"



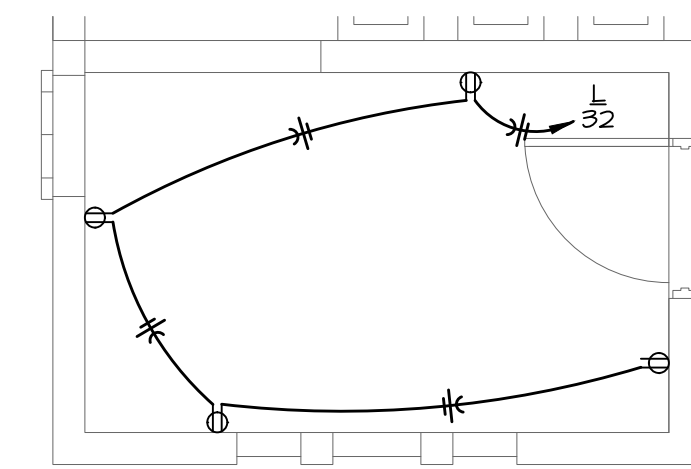
4 Family Change Lighting Plan
Scale: 1/4" = 1'-0"



3 Family Change Power Plan
Scale: 1/4" = 1'-0"



6 Lifeguard Room Lighting Plan
Scale: 1/4" = 1'-0"



5 Lifeguard Room Power Plan
Scale: 1/4" = 1'-0"

GENERAL NOTES:

- 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.
- ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE NEC WHEN GRADED IN COMMON RACEWAYS.
- COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.
- 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.
- 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.
- 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.
- 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.
- 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.

PLAN NOTES:

- REMOVE EXISTING LIGHT FIXTURES IN THIS SPACE. RETAIN CIRCUITING FOR CONNECTION TO NEW FIXTURES.
- CONNECT NEW LIGHT FIXTURES TO EXISTING CIRCUIT RETAINED DURING DEMOLITION. -EM FIXTURES SHALL BE CONNECTED TO A "HOT" CONDUCTOR. MODIFY NEW CIRCUIT AS REQUIRED.
- REPLACE EXISTING LIGHT FIXTURES IN THIS SPACE WITH FIXTURES AS SCHEDULED. RETAIN EXISTING CONTROLS. -EM FIXTURES SHALL BE CONNECTED TO A "HOT" CONDUCTOR. MODIFY NEW CIRCUIT AS REQUIRED.
- PROVIDE 120V/1PH POWER TO NEW WATER HEATER LOCATED ABOVE/ADJACENT TO EMERGENCY EYEWASH/SHOWER STATION. PROVIDE TOGGLE SWITCH DISCONNECT.
- CHEMICAL CONTROLLER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHEMICAL CONTROLLER. ROUTE FEEDER BETWEEN CHEMICAL RECEPTACLE AND CHEMICAL CONTROLLER.
- PH FEEDER RECEPTACLE. CONNECT CIRCUIT TO CHEMICAL CONTROLLER. SEE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR MORE INFORMATION. PROVIDE ENGRAVED COVERPLATE DENOTING PH FEEDER.
- PROVIDE ZOELLER SWITCH-MATE PIGGYBACK VARIABLE LEVEL FLOAT SWITCH (VLFS). FLOAT SHALL BE NORMALLY OPEN (NO) OR NORMALLY CLOSED (NC) PER NOTES BE RATED FOR 15A AT 125V, AND SHALL NOT CONTAIN MERCURY. COORDINATE MOUNTING HEIGHT WITH POOL ENGINEERS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE 50HP PUMP RECEPTACLE AS REQUIRED. RECEPTACLE SHALL BE ABOVE FLOOD RIM OF PIT.
- ROUTE FEEDER BETWEEN PUMP MOTOR/DRIVE AND EXISTING DISCONNECT. FEEDER SHALL BE ROUTED CLEANLY AND SHALL NOT BE ROUTED ACROSS THE FLOOR.
- CHLORINE 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 CHLORINE FEEDER.
- CHLORINE FEEDER CONSTANT POWER RECEPTACLE. PROVIDE ENGRAVED COVERPLATE DENOTING POOL SERVED AND CHLORINE FEEDER. COORDINATE EXACT HEIGHT OF RECEPTACLE WITH MANUFACTURER.
- EXHAUST FAN POWER SHALL BE ROUTED THROUGH NEW WALL. EXHAUST FAN SHALL BE INTERLOCKED WITH THE ROOM LIGHTING. COORDINATE EXACT HEIGHT AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- INSTALL FAN SPEED CONTROLLER IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. COORDINATE A 200 CFM EXHAUST RATE WITH THE MECHANICAL CONTRACTOR.
- MODIFY EXISTING PUMP MOTOR STARTER WIRING AND INTEGRATE INTO NEW CONTROLS AND PUMP START/STOP STATION AS DETAILED ON SHEET SP-E2.
- PUMP START/STOP STATION - PROVIDE PUMP START/STOP STATION. REFERENCE CIRCULATION PUMP CONTROL SCHEMATIC ON SHEET SP-E2 FOR ADDITIONAL INFORMATION. CONTROL STATION SHALL BE CENTERED 4'-6" AFF.
- LOW WATER RESET STATION - PROVIDE LOW WATER PUMP RESET STATION. REFERENCE FLOAT SWITCH SCHEMATIC ON SHEET SP-E2 FOR ADDITIONAL INFORMATION. CONTROL STATION SHALL BE CENTERED 4'-6" AFF.
- PROVIDE RECEPTACLE FOR RECIRCULATION PUMP ABOVE CEILING.
- PROVIDE 120V/1PH POWER TO NEW WATER HEATER LOCATED ABOVE CEILING. PROVIDE TOGGLE SWITCH DISCONNECT.
- PROVIDE CONNECTION BETWEEN REPLACEMENT RECIRCULATION PUMP AND EXISTING FEEDER. REFER TO ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.



WICHITA, KANSAS
Spray Ground
COLLEGE HILL PARK



CASEY JOHN STEINER
LICENSE #19423

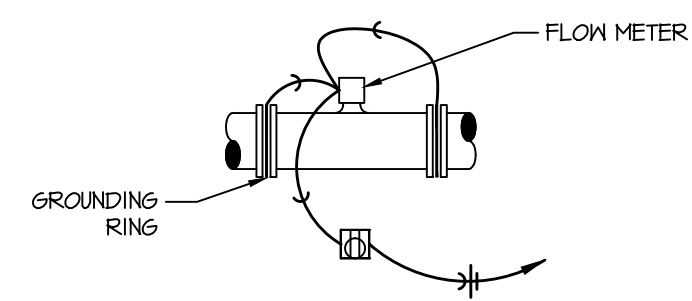
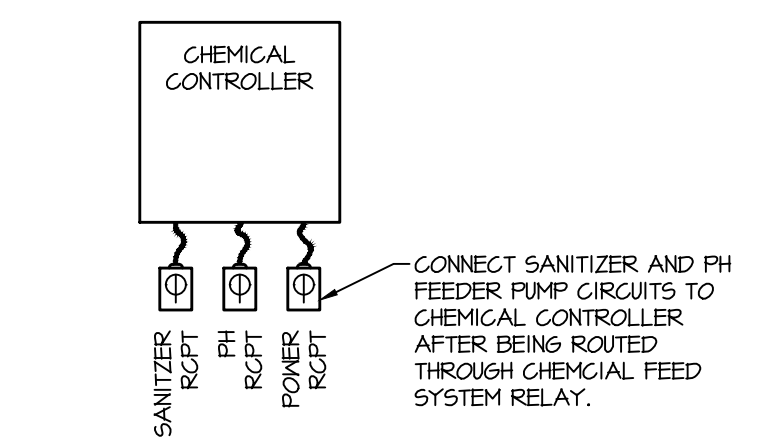
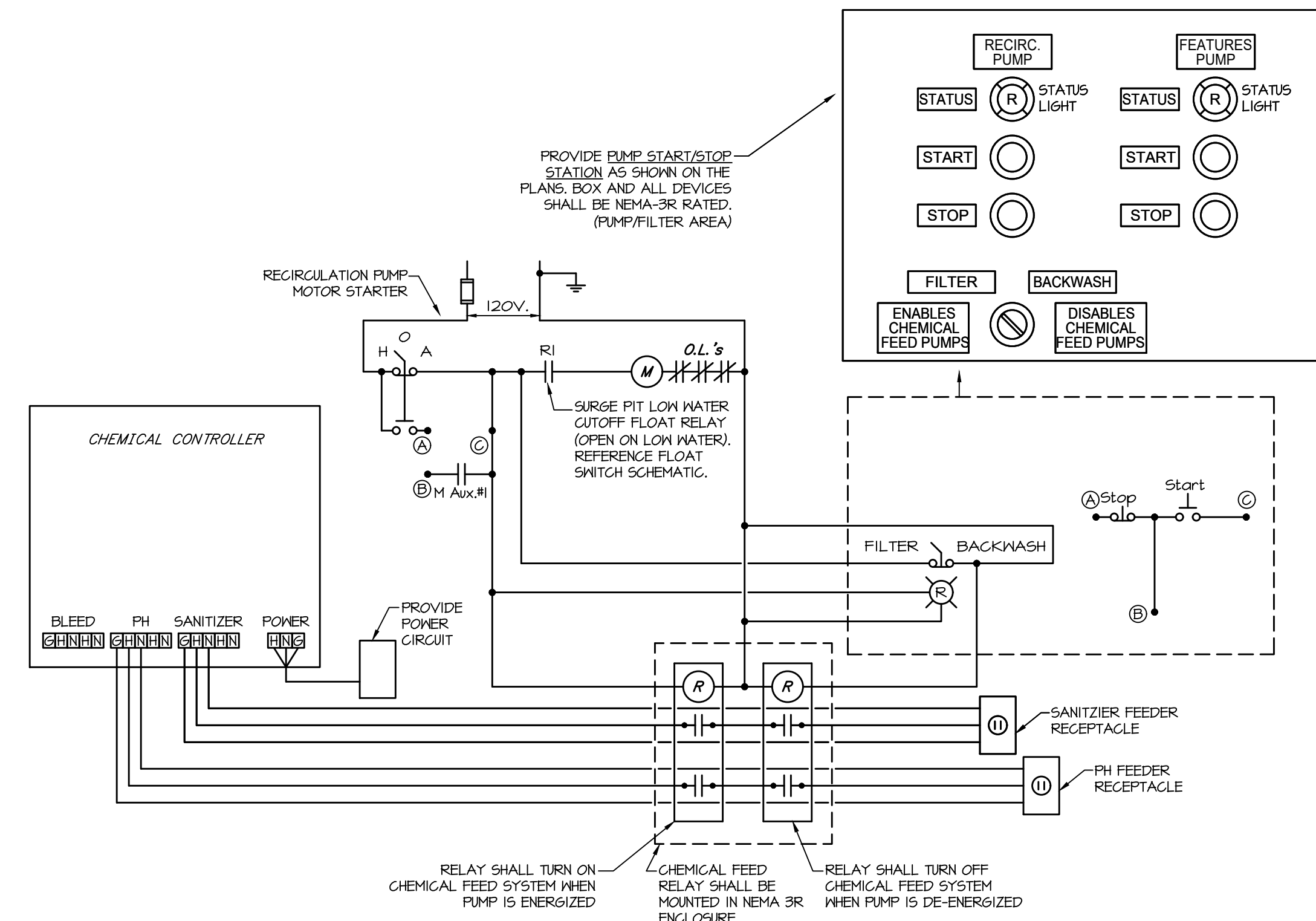
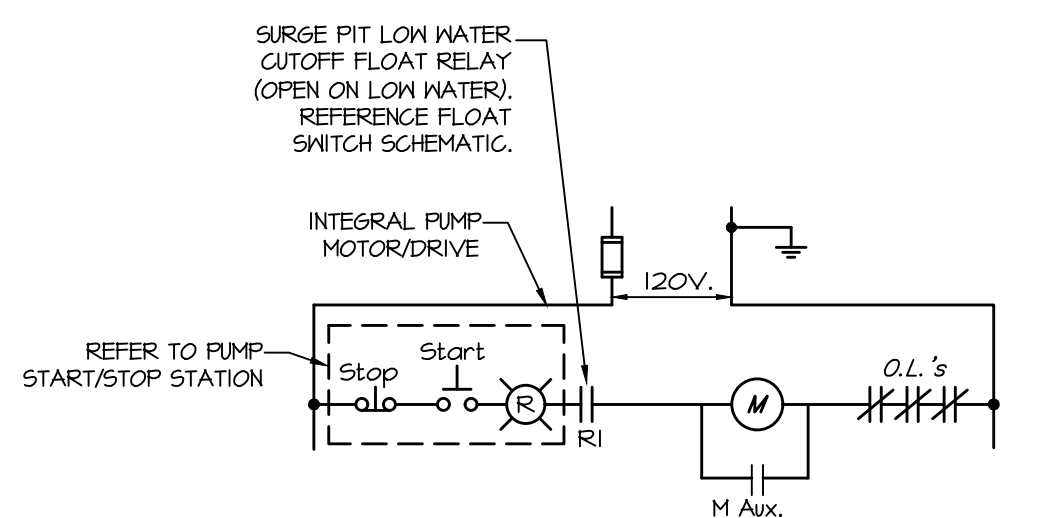
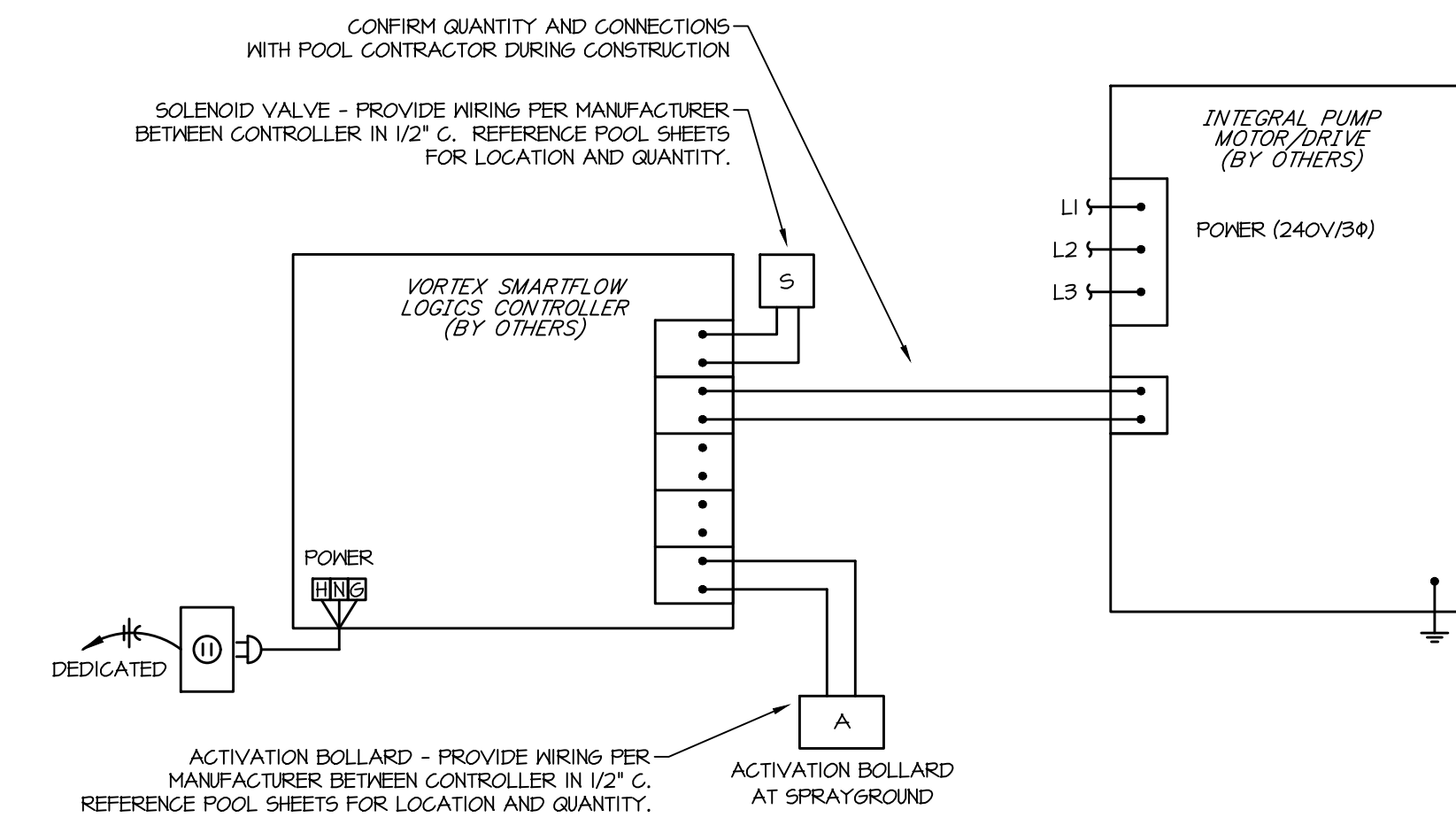
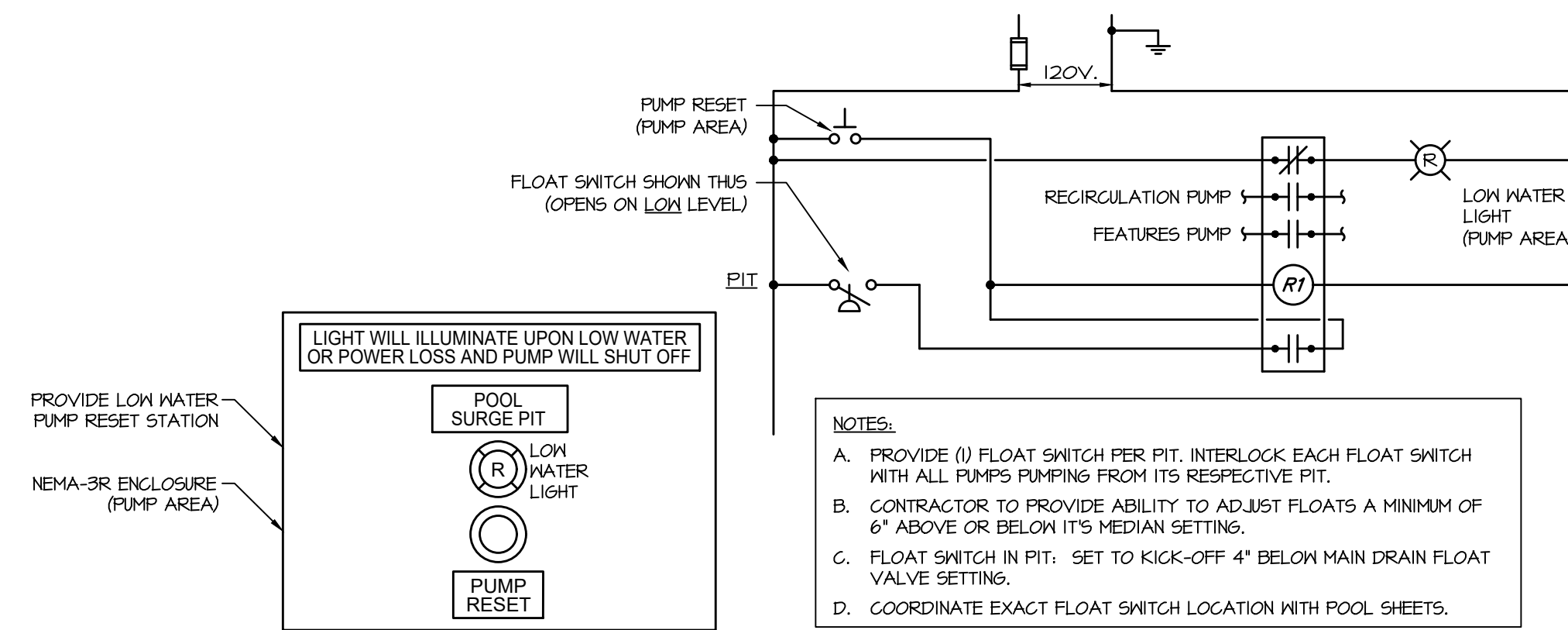
Date: 10-20-21 Job #: 18-512

Drawn: CDW Checked: CJS

Issue: CONSTRUCTION DOCUMENTS

ELECTRICAL
PLAN

SP-E1



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

waters edge
AQUATIC DESIGN

11205 W. 79th St.
Lenexa, KS 66214

t. 913.438.4338
www.WeDesignPools.com

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H&B PROJECT NUMBER: 18-0500
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WICHITA, KANSAS
Spray Ground
COLLEGE HILL PARK

WICHITA
CITY OF

Seal:

CASEY JOHN STEINER
LICENSE #19423
Date: 10-20-21 Job #: 18-512
Drawn: CDW Checked: CJS
Issue: CONSTRUCTION DOCUMENTS

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	WILLIAMS	46-4-L40/B40-HIAFR-NET/1-DRV-UNV	4000	LED	4000K/82CRI	UNV	40	4" DEEP ENCLOSED INDUSTRIAL, 4FT	1	
A-EM	WILLIAMS	46-4-L40/B40-HIAFR-EM/10MC-MET/1-DRV-UNV	4000	LED	4000K/82CRI	UNV	40	4" DEEP ENCLOSED INDUSTRIAL, 4FT, EM	1	
B	MINKA AIRE	F414L-WH	-	-	-	120	54	52" DIA. MET. LOCATION CEILING FAN	2	
C	JUNO	J5F-5INOTLM-35K-40CRI-120FRPC-WH-EBX	100	LED	3500K/40 CRI	120	10	5" SURFACE MOUNT LED DISC		
D	JUNO	J5F-13IN8LM-35K-40CRI-120FRPC-WH-EBX	1800	LED	3500K/40 CRI	120	20	13" SURFACE MOUNT LED DISC		
D-EM	JUNO	J5F-13IN8LM-35K-40CRI-120FRPC-WH-EL	1800	LED	3500K/40 CRI	UNV	20	13" SURFACE MOUNT LED DISC W/ EM		

NOTES:

1. FIXTURE SHALL BE NET LISTED.
2. FAN SHALL BE NON-LIT. PROVIDE MANUFACTURER LIGHT CAP AND WALL CONTROLLER.

GENERAL NOTES (APPLIES TO ALL ABOVE):

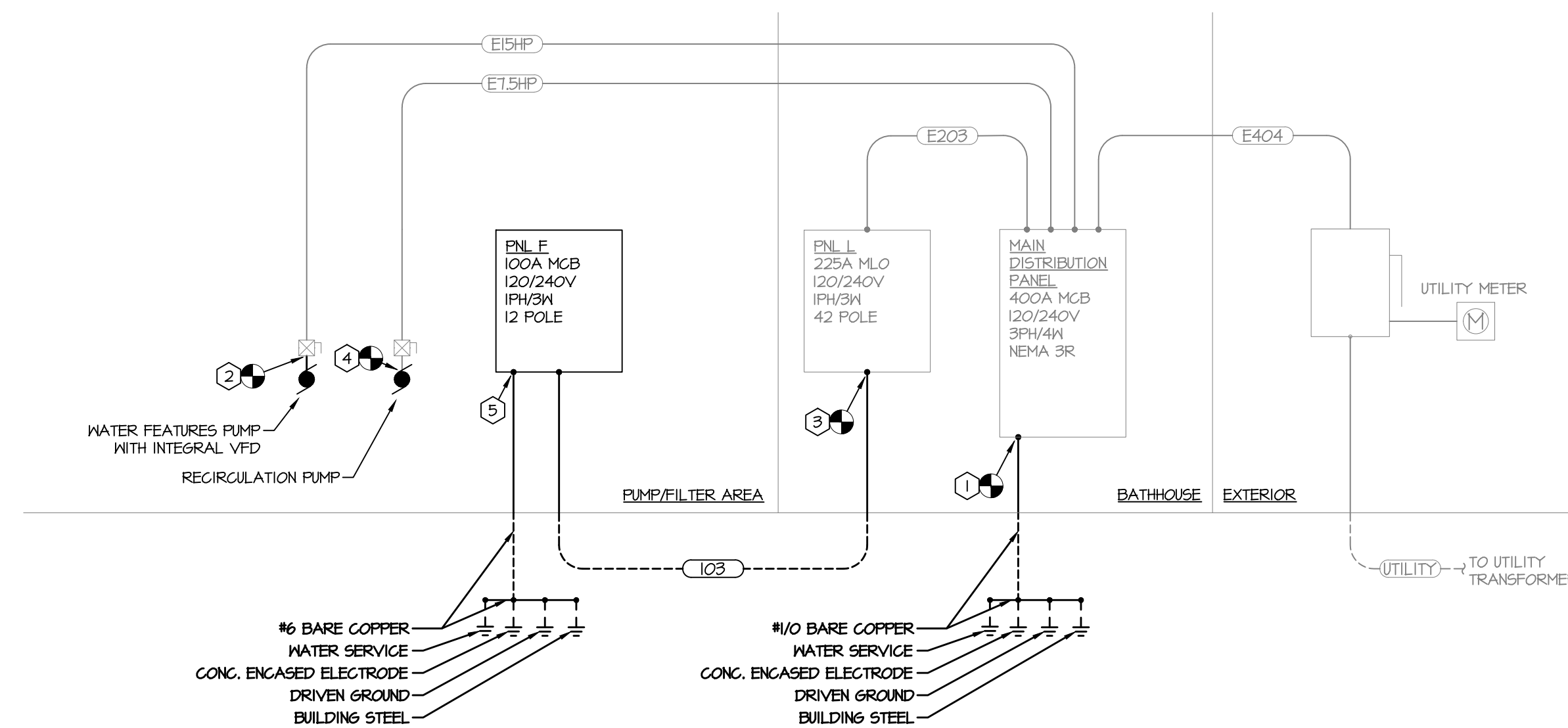
- A. ALL LIGHT FIXTURES SCHEDULED AND SHOWN ON THE PLANS WITH AN "EM" TAG SUFFIX SHALL HAVE AN INTEGRAL EMERGENCY DRIVER.
- B. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.

PANEL F

DESCRIPTION: 100A MCB		100% Neutral Bus NEMA 3R Enclosure		VOLTAGE: 120/240V, 1PH, 3 WIRE		
10 KAIC RATING				TOTAL CONNECTED LOAD: 8kW* 24A		
				DEMANDED LOAD CONTINUOUS: 8kW* 25A		
NO	LOAD (W)	DESCRIPTION	AMP P SIZE	AMP P SIZE	LOAD (W)	NO
1	3000	DECK RECEPTACLE	1 50	A 20	180	2
3	0	SPARE	1 20	B 20	180	4
5	0	SPARE	1 20	A 20	180	6
7	0	SPARE	1 20	B 20	180	8
9	0	SPARE	1 20	A 20	500	10
11	0	SPARE	1 20	B 20	1500	12

PANEL L (EXISTING)

DESCRIPTION: 225A MLO		100% Neutral Bus NEMA 1 Enclosure		VOLTAGE: 120/240V, 1PH, 3 WIRE		
80 KAIC RATING				TOTAL CONNECTED LOAD: 23kW* 98A		
				DEMANDED LOAD CONTINUOUS: 23kW* 107A		
NO	LOAD (W)	DESCRIPTION	AMP P SIZE	AMP P SIZE	LOAD (W)	NO
1	800	RECEPTACLES	1 20	A 20	1000	2
3	800	RECEPTACLES	1 20	B 20	1000	4
5	600	RECEPTACLES	1 20	A 20	1000	6
7	800	RECEPTACLES	1 20	B 20	1200	8
9	1200	VENDING	1 20	A 20	1200	10
11	1200	VENDING	1 20	B 20	1000	12
13	600	FLUSH VALVE XFM	1 20	A 20	0	14
15	600	FLUSH VALVE XFM	1 20	B 20	800	16
17	800	RECEPTACLES	1 20	A 20	0	18
19	600	FLUSH VALVE XFM	1 20	B 20	900	20
21	600	ITB	1 20	A 20	900	22
23	0	SPARE	1 20	B 20	1200	24
25	0	SPARE	1 20	A 20	0	26
27	0	SPARE	1 20	B 20	1500	28
29	0	SPARE	1 20	A 20	180	30
31	0	SPARE	1 20	B 20	120	32
33	0	SPARE	1 20	A 20	1500	34
35	0	SPARE	1 20	B 20	180	36
37	0	SPARE	1 20	A 20	180	38
39	0	SPARE	1 20	B 20	0	40
41	0	SPARE	1 20	A 20	0	42



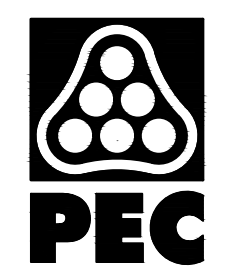
1 Electrical Riser Diagram
Scale: None

FEEDER SCHEDULE:

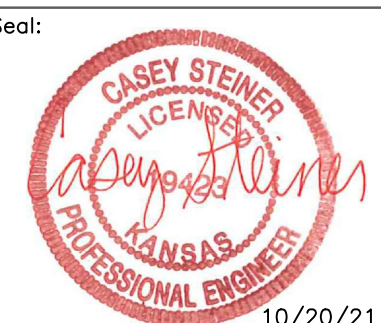
- UTILITY FEEDER BY UTILITY
- (E404) (4) #500KGM IN 4" CONDUIT
- (E203) (3) #3/0, #6 GROUND IN 2" CONDUIT
- (E224) (4) #4/0, #4 GROUND IN 2-1/2" CONDUIT
- (E15HP) (3) #2, #6 GROUND IN 1-1/2" CONDUIT
- (E15HP) (3) #6, #10 GROUND IN 1" CONDUIT
- (I03) (3) #1, #8 GROUND IN 1-1/2" CONDUIT

RISER NEW WORK NOTES:

1. GROUNDING - VERIFY SERVICE ENTRANCE EQUIPMENT IS GROUND PER THE GROUNDING ELECTRODE SYSTEM REQUIREMENTS SET FORTH IN NEC 250.50. ANY BARE GROUNDING ELECTRODE CONDUCTOR THAT IS OXIDIZED SHALL BE REPLACED WITH AN INSULATED GROUNDING ELECTRODE CONDUCTOR IN SCHEDULE 80 PVC CONDUIT.
2. FEATURES REMOVED - PROVIDE FEEDER FOR PUMP WITH INTEGRAL VFD AND CONNECT TO EXISTING DISCONNECT/STARTER. FEEDER SHALL BE (3) #10, #10G, IN 1/2" CONDUIT.
3. PANEL F - CONTRACTOR SHALL PROVIDE 100A MCB, 120/240V, 10KAIC, 12 POLE NEMA 3R LOAD CENTER. FEEDER SHALL BE ROUTED BELOW GRADE BETWEEN THE BATHHOUSE AND FILTER BUILDING.
4. REGULATION PUMP - PROVIDE CONNECTION TO REPLACEMENT REGULATION PUMP WITH EXISTING FEEDER. VERIFY FEEDER IS AT LEAST (3) #6 AND #8G, IN 1-1/4" CONDUIT.
5. GROUNDING - GROUND PER THE GROUNDING ELECTRODE SYSTEM REQUIREMENTS SET FORTH IN NEC 250.50.



WICHITA, KANSAS
Spray Ground
COLLEGE HILL PARK



Casey John Steiner
License #19423
Date: 10-20-21 Job #: 18-512
Drawn: CDW Checked: CJS
Issue: CONSTRUCTION DOCUMENTS

ELECTRICAL
DETAILS AND
RISER DIAGRAM

SP-E3