

# SUMMIT VIEW FARMS

POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI



THE ABOVE ILLUSTRATION IS AN  
ARTIST'S REPRESENTATION AND  
DOES NOT INDICATE FINAL DESIGN

## CONSTRUCTION DOCUMENTS

FEBRUARY 23, 2021

PREPARED BY:

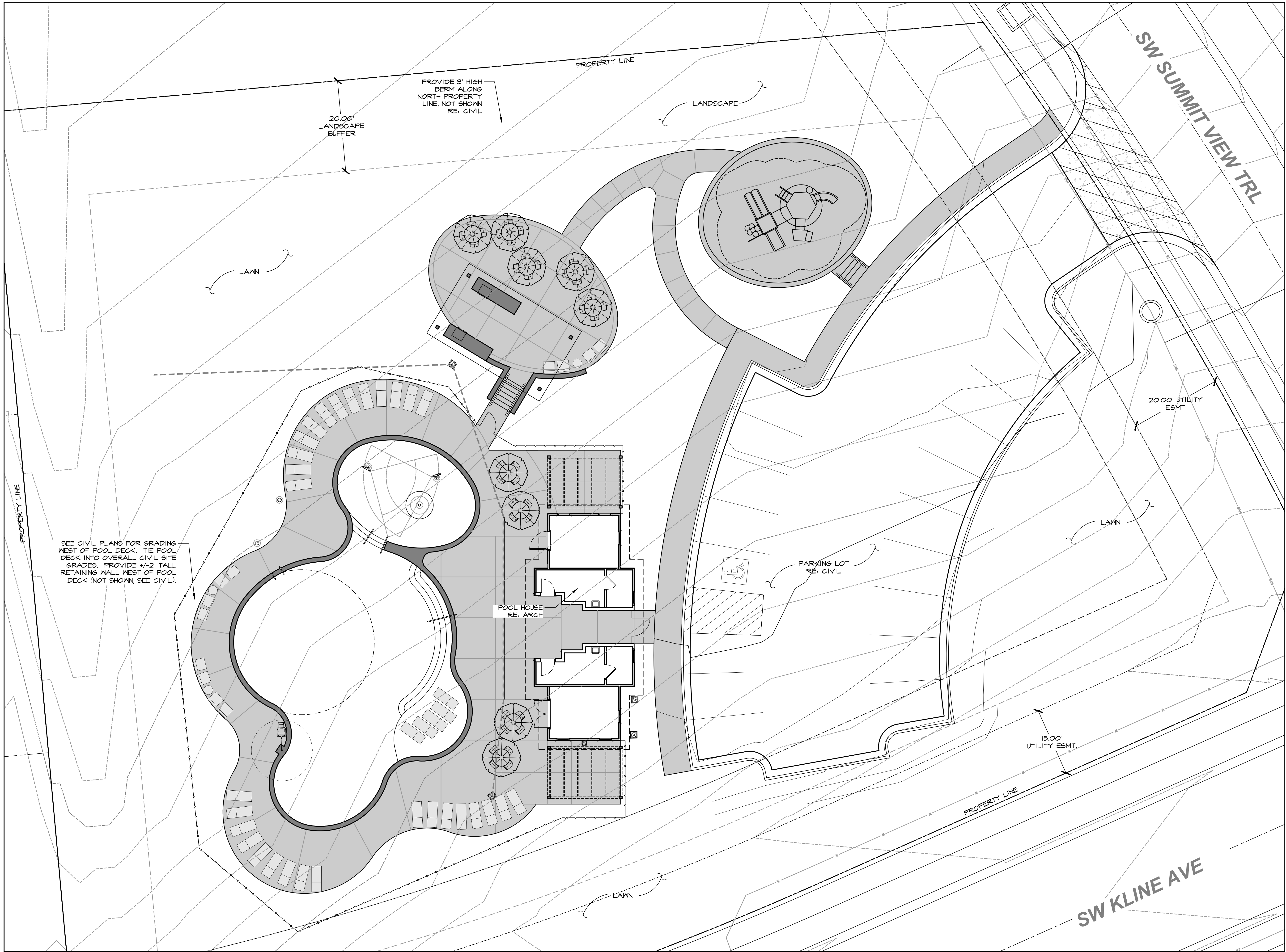


8021 SANTA FE DRIVE, SUITE 200  
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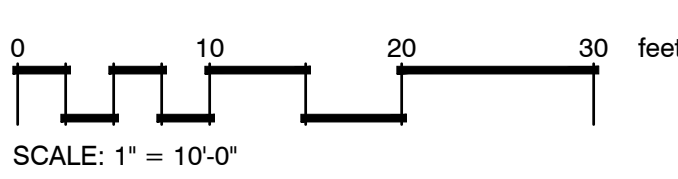
## SHEET INDEX

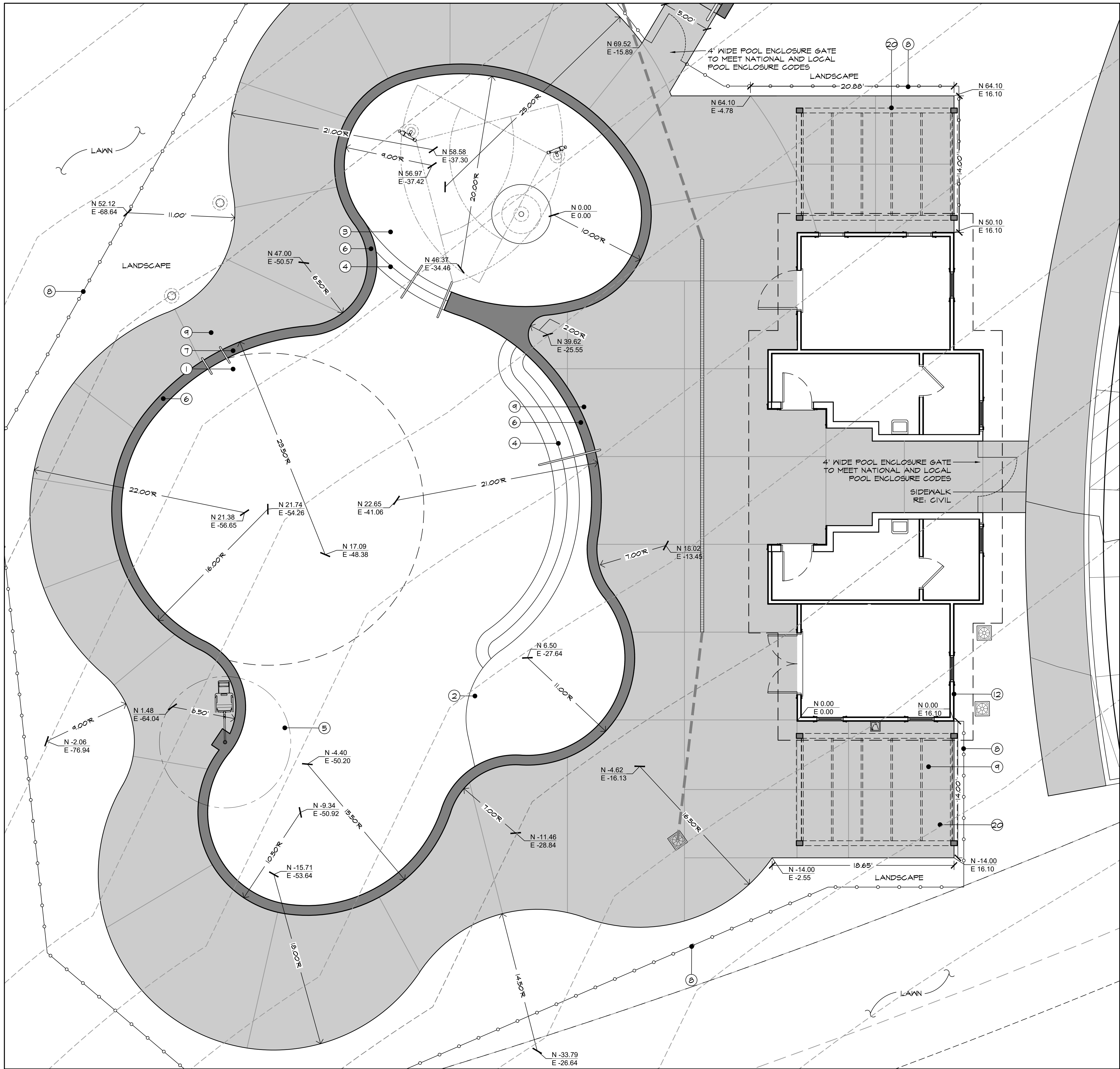
L100	SITE REFERENCE PLAN	W101	POOL STRUCTURAL NOTES
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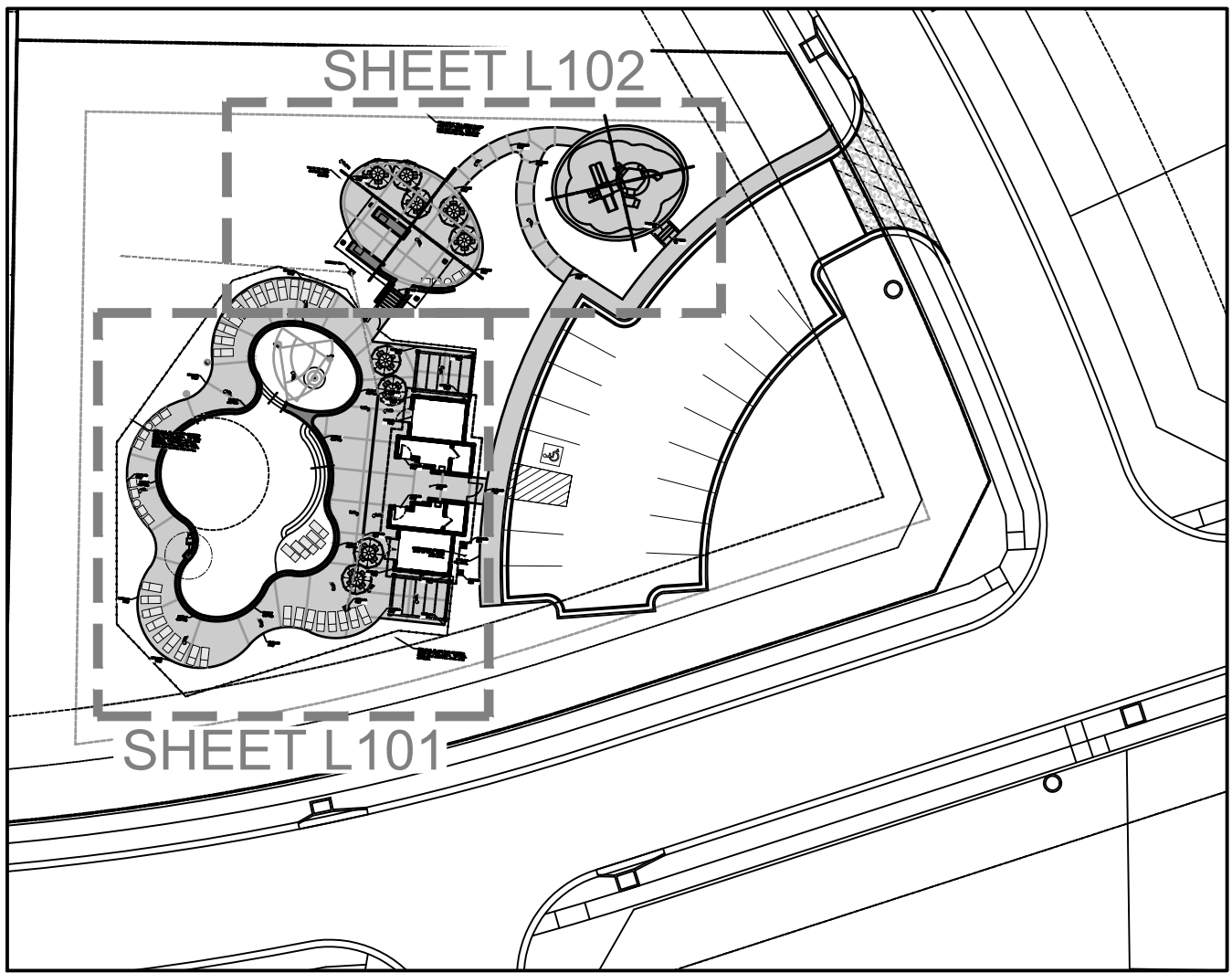
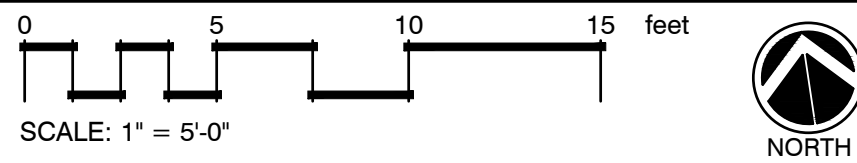


**SITE REFERENCE PLAN**  
**SCALE: 1"=10'-0"**

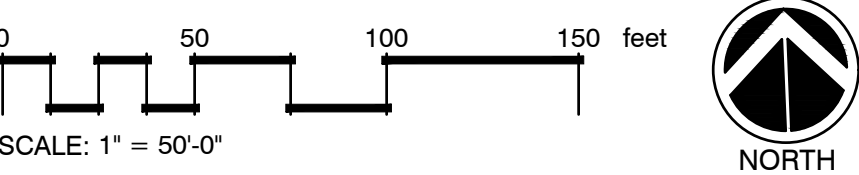




**POOL DECK - LAYOUT PLAN**  
SCALE: 1"=5'-0"



**SITE REFERENCE PLAN**  
SCALE: 1"=50'-0"



**LEGEND**

- WALL
- PAVEMENT
- POOL ENCLOSURE FENCE

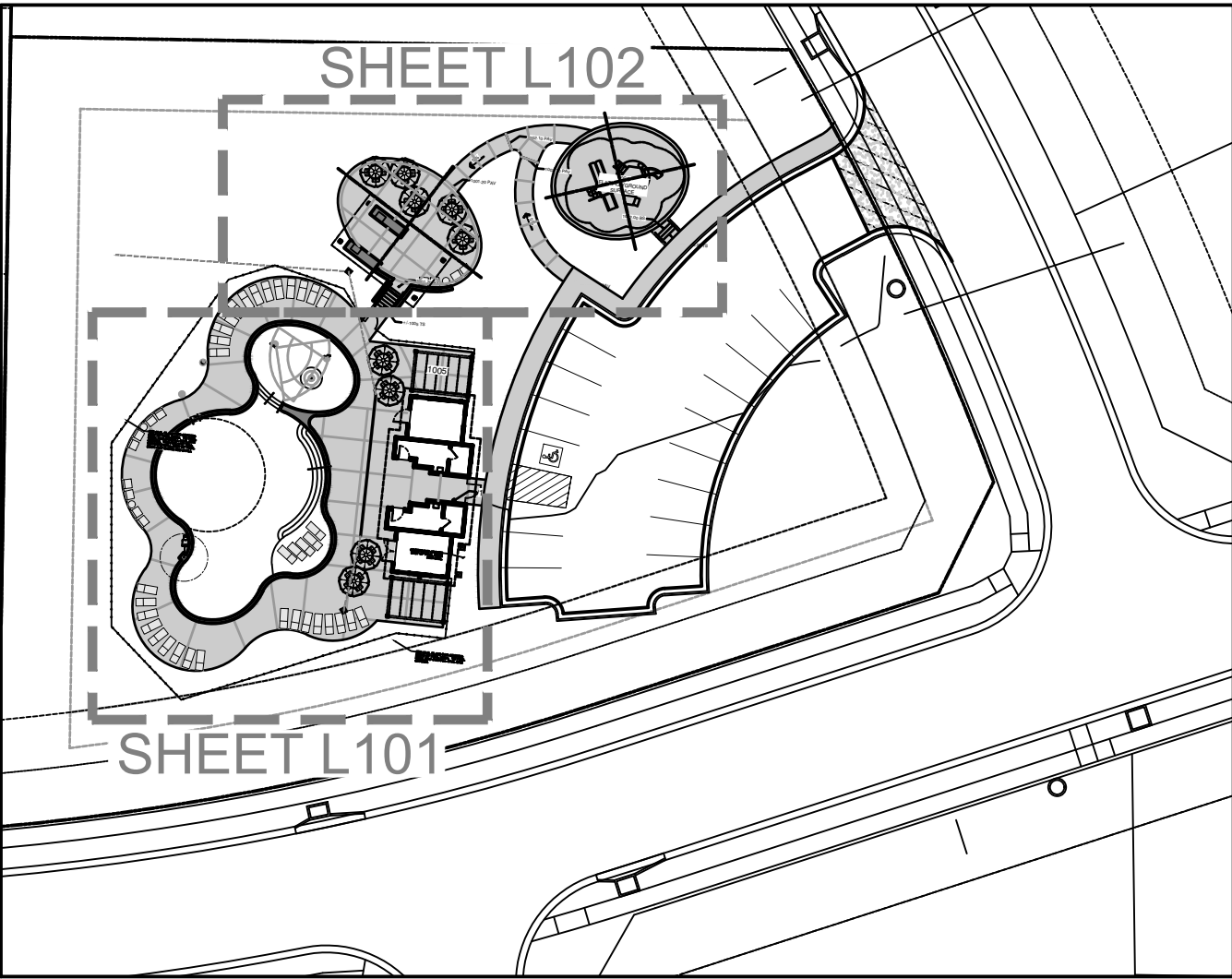
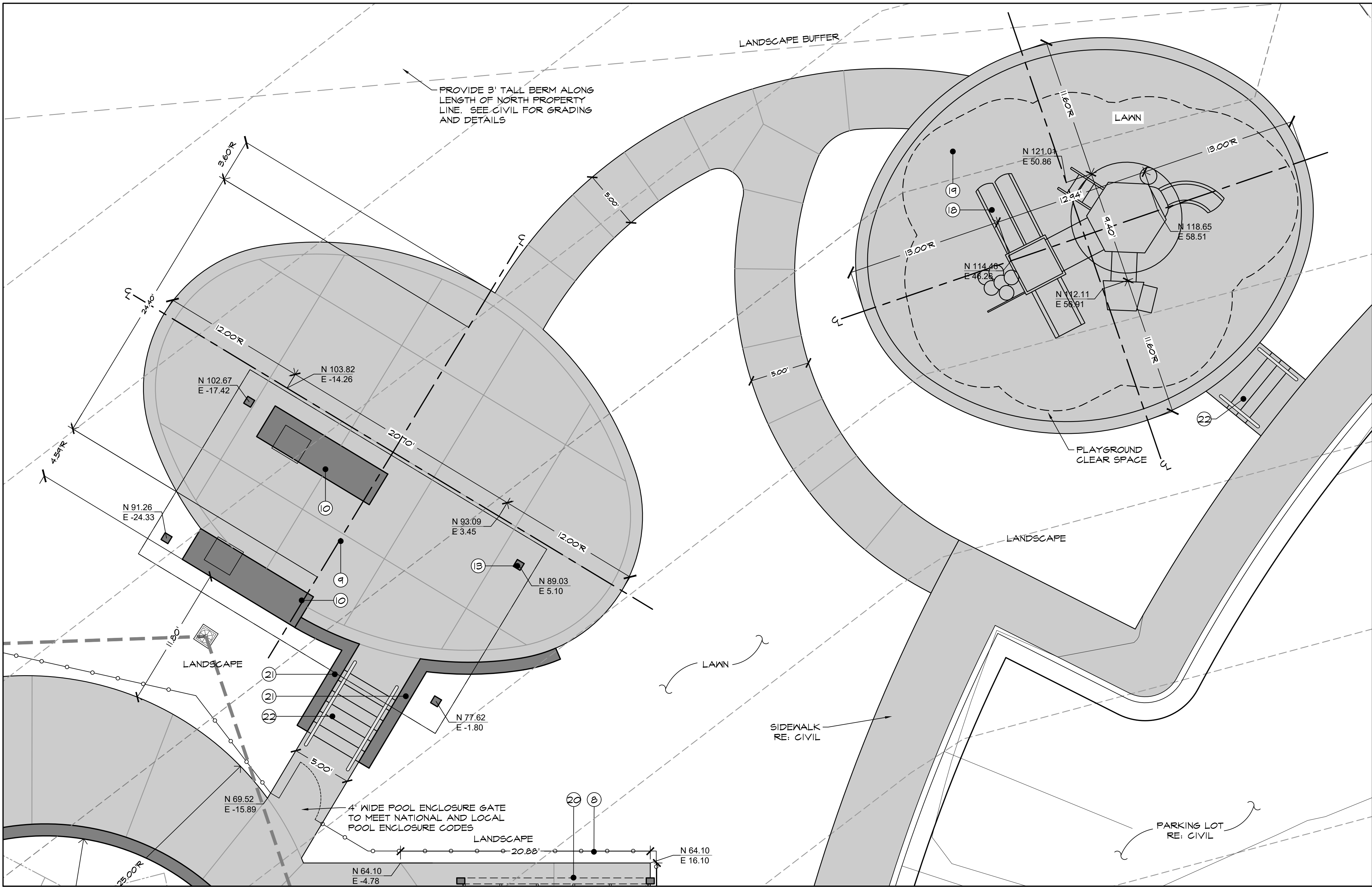
**GENERAL NOTES**

- ANY MASONRY WORK DONE WITHIN 5' OF THE WATERS EDGE SHALL HAVE LATICRETE ADDED
- ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
- N+E BASED ON SOUTH WEST CORNER OF BUILDING

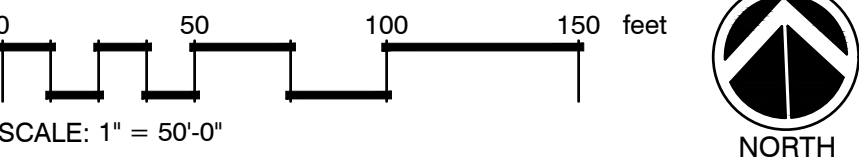
**DETAILS LEGEND**

KEY	DETAIL	DESCRIPTION	SHEET
1	SWIMMING POOL	2 1/2 SF SHOTCRETE SWIMMING POOL	W001-W106
2	ENTRY REEF - ADULT	265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	5/W103
3	ENTRY REEF - CHILDREN'S SPLASH PAD	556 SF ENTRY REEF W/ WATER FEATURE EQUIPMENT, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	W103
4	SWIMMING POOL STEPS W/ HANDRAIL	SHOTCRETE STEPS W/ 3" WIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER ALONG HORIZONTAL EDGE OF EACH RISER	4 W103
5	POOL LIFT	ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL NOT EXCEED 48" AT LIFT LOCATION	10 W105
6	POOL COPING	CIP STEGMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM	6 W103
7	POOL LADDER	SWIMMING POOL LADDER FOR POOL EGRESS	1 W105
8	POOL ENCLOSURE FENCE	5' HT. BLACK POWDER COATED STEEL AMERISTAR MONTAGE COMMERCIAL MAGESTIG FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN	12/13 L201
9	POOL DECK	GREY, BROOM FINISHED CONCRETE POOL DECK	1-4 L201
10	GRILL STATION	BUILT-IN GRILL AND ACCESS DOORS W/ GRANITE COUNTERTOP & THIN STONE VENEER BASE	L202-L203
11	POOL EQUIPMENT ROOM	RE: PLUMBING PLANS	W004
12	CABANA STRUCTURE	RE: ARCH	RE: ARCH
13	SHADE STRUCTURE	SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS	L203
14	LANDSCAPE AREA DRAIN	AREA DRAIN IN LANDSCAPE AREAS W/ BEEHIVE DOME TOP	8 L201
15	HARDSCAPE AREA DRAIN	AREA DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER	6 L201
16	LINEAR DRAIN	IN-LINE DRAIN IN HARDSCAPE AREAS W/ ORNAMENTAL IRON COVER	6 L201
17	TRASH RECEPTACLE	BLACK ASHEBOOKE RECEPTAVLE, MODEL AH401-DT, MANUF. BY BRP BY BISON	-
18	PLAYGROUND	PB20-T140T PLAYGROUND BY LITTLE TIKES COMMERCIAL	4 L204
19	PLAYGROUND SURFACE	ARTIFICIAL LAWN PLAYGROUND SURFACE BY FOREVER LAWN. INSTALL PER MANUFACTURER'S SPECIFICATIONS. SURROUND WITH CONCRETE BAND	-
20	PERGOLA STRUCTURE	STEEL & FABRIC PERGOLA STRUCTURE	L202
21	RETAINING WALL	CONCRETE RETAINING WALL WITH OPTIONAL STONE VENEER AND PRECAST CAP	1 L204
22	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204





**SITE REFERENCE PLAN**  
SCALE: 1"=50'-0"



**DETAILS LEGEND**

KEY	DETAIL	DESCRIPTION	SHEET
①	SWIMMING POOL	2112 SF SHOTCRETE SWIMMING POOL	W001-W106
②	ENTRY REEF - ADULT	265 SF ENTRY REEF, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	5/W103
③	ENTRY REEF - CHILDREN'S SPLASH PAD	556 SF ENTRY REEF w/ WATER FEATURE EQUIPMENT, PROVIDE SHOTCRETE FROST FOOTING AROUND PERIMETER OF REEF	W103
④	SWIMMING POOL STEPS w/ HANDRAIL	SHOTCRETE STEPS w/ 3" WIDE (MIN) NON-SKID MATERIAL OF CONTRASTING COLOR TO PLASTER ALONG HORIZONTAL EDGE OF EACH RISER	4 W103
⑤	POOL LIFT	ADA ACCESSIBLE POOL LIFT, WATER DEPTH SHALL NOT EXCEED 48" AT LIFT LOCATION	10 W105
⑥	POOL COPING	C/P STEMEIER CONCRETE COPING, CLIP-LOC INTERMEDIATE FORM	6 W103
⑦	POOL LADDER	SWIMMING POOL LADDER FOR POOL EGRESS	1 W105
⑧	POOL ENCLOSURE FENCE	5' HT. BLACK POWDER COATED STEEL AMERISTAR MONTAGE COMMERCIAL MAGESTIC FENCE AT POOL ENCLOSURE, LOCATE GATES AS SHOWN ON PLAN	12/3 L201
⑨	POOL DECK	GREY, BROOM FINISHED CONCRETE POOL DECK	1-4 L201
⑩	GRILL STATION	BUILT-IN GRILL AND ACCESS DOORS w/ GRANITE COUNTERTOP & THIN STONE VENEER BASE	L202-L203
⑪	POOL EQUIPMENT ROOM	RE: PLUMBING PLANS	W004
⑫	CABANA STRUCTURE	RE: ARCH	RE: ARCH
⑬	SHADE STRUCTURE	SOLID ROOF SHADE STRUCTURE OVER GRILL STATIONS	L203
⑭	LANDSCAPE AREA DRAIN	AREA DRAIN IN LANDSCAPE AREAS w/ BEEHIVE DOME TOP	8 L201
⑮	HARDSCAPE AREA DRAIN	AREA DRAIN IN HARDSCAPE AREAS w/ ORNAMENTAL IRON COVER	6 L201
⑯	LINEAR DRAIN	IN-LINE DRAIN IN HARDSCAPE AREAS w/ ORNAMENTAL IRON COVER	6 L201
⑰	TRASH RECEPTACLE	BLACK ASHEBOOKE RECEPTACLE, MODEL AH401-DT, MANUF. BY BRP BY BISON	-
⑱	PLAYGROUND	FB20-71907 PLAYGROUND BY LITTLE TIKES COMMERCIAL	4 L204
⑲	PLAYGROUND SURFACE	ARTIFICIAL LAWN PLAYGROUND SURFACE BY FOREVER LAWN INSTALL PER MANUFACTURER'S SPECIFICATIONS, SURROUND WITH CONCRETE BAND	-
⑳	PERGOLA STRUCTURE	STEEL & FABRIC PERGOLA STRUCTURE	L202
㉑	RETAINING WALL	CONCRETE RETAINING WALL WITH OPTIONAL STONE VENEER AND PRECAST CAP	1 L204
㉒	CONCRETE STEPS	CONCRETE STEPS WITH S.S. HANDRAIL	L204

**GRILL PATIO - LAYOUT PLAN**  
SCALE: 1"=5'-0"

**LEGEND**

- WALL
- PAVEMENT
- POOL ENCLOSURE FENCE

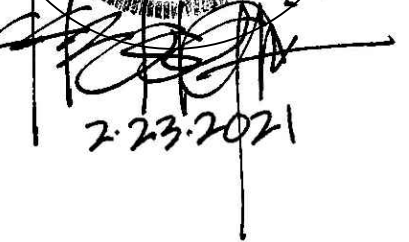
**GENERAL NOTES**

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- ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
- N&E BASED ON SOUTH WEST CORNER OF BUILDING





1. ANY MASONRY WORK DONE WITHIN 5' OF THE WATERS EDGE SHALL HAVE LATIGRETE ADDED
2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
3. ALL DRAINS SHALL TIE-IN TO CIVIL STORM SYSTEM. CONTRACTOR TO FIELD DETERMINE DRAIN INVERTS AND ENSURE POSITIVE DRAINAGE TO CIVIL STORM SYSTEM. COORDINATE WITH CIVIL

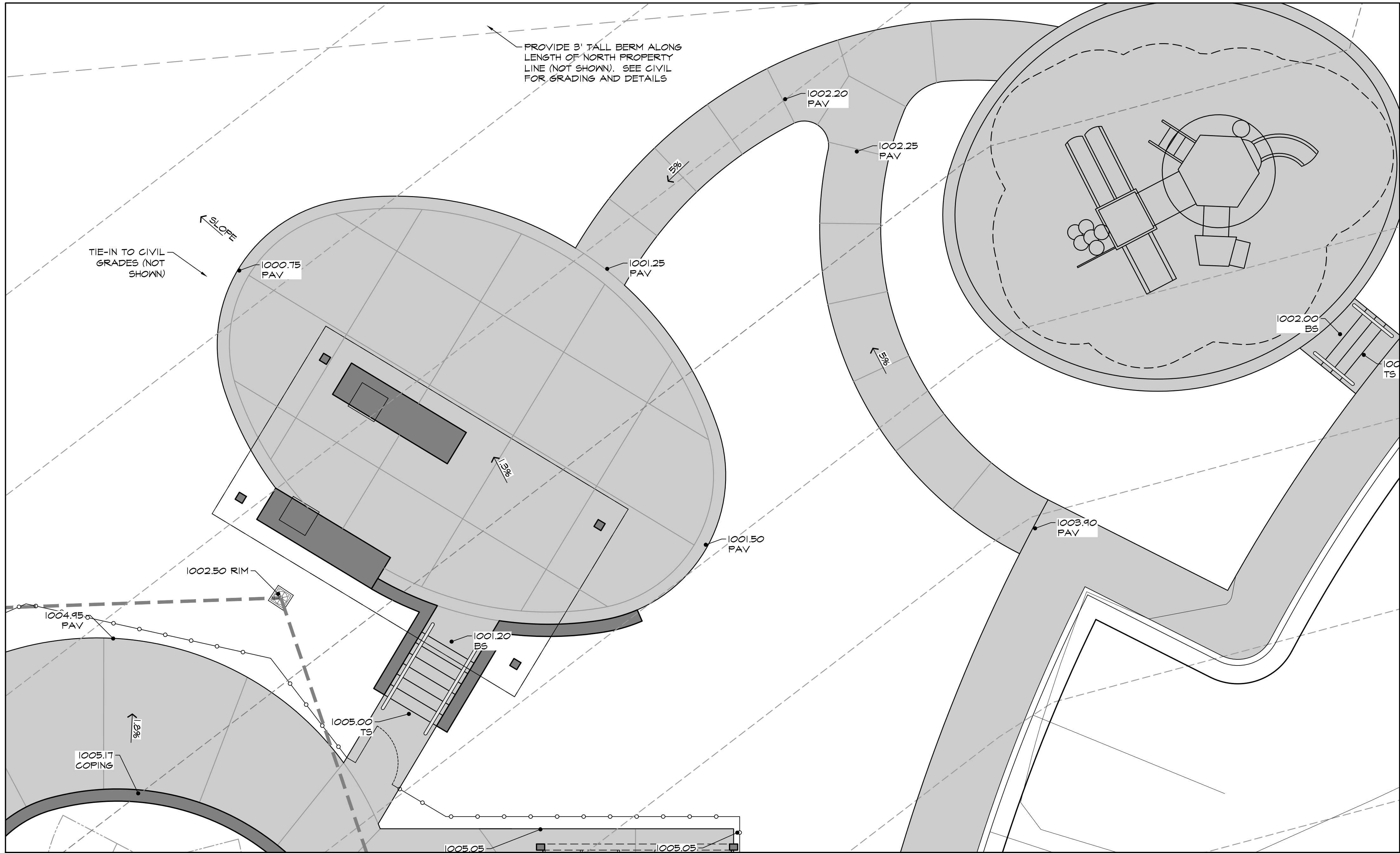


**SUMMIT VIEW FARMS**  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

REVISION:

## POOL DECK - GRADING PLAN

L103



**GRILL PATIO - GRADING PLAN**  
**SCALE: 1"=5'-0"**

**LEGEND**

- WALL
- PAVEMENT
- POOL ENCLOSURE FENCE
- TRENCH DRAIN
- AREA DRAIN
- SLOPE AREA

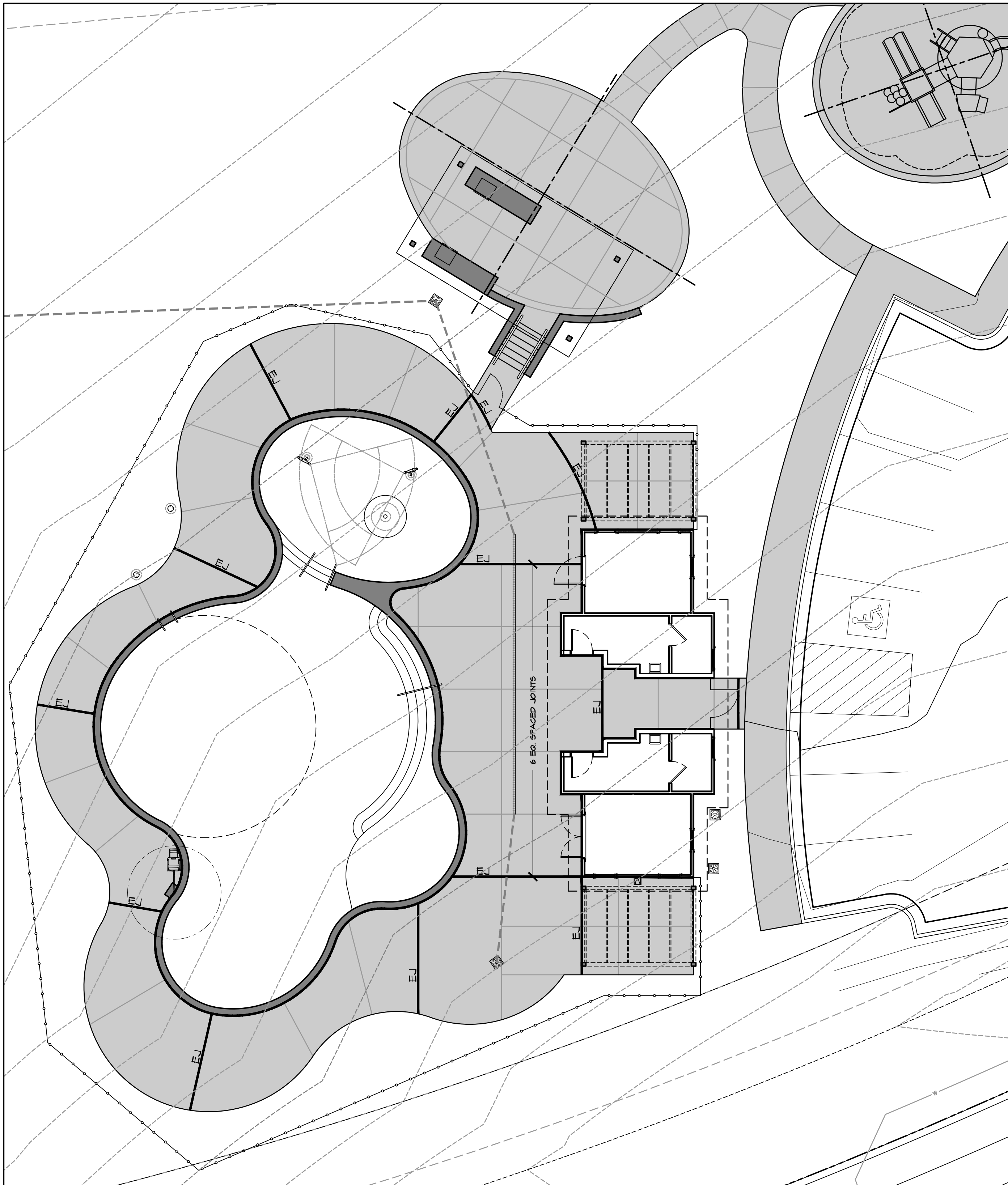
**ANNOTATION LEGEND**

- FFE - FINISHED FLOOR ELEVATION
- BFE - BASEMENT FLOOR ELEVATION
- TW - TOP WALL
- BW - BOTTOM WALL
- TS - TOP STEP
- BS - BOTTOM STEP
- DI - DRAIN INLET
- RIM - DRAIN RIM ELEVATION
- PAV - PAVING ELEVATION
- TC - TOP COPING
- HP - HIGH POINT
- DS - DOWN SPOUT
- FG - FINISHED GRADE
- THRESH - THRESHOLD ELEVATION

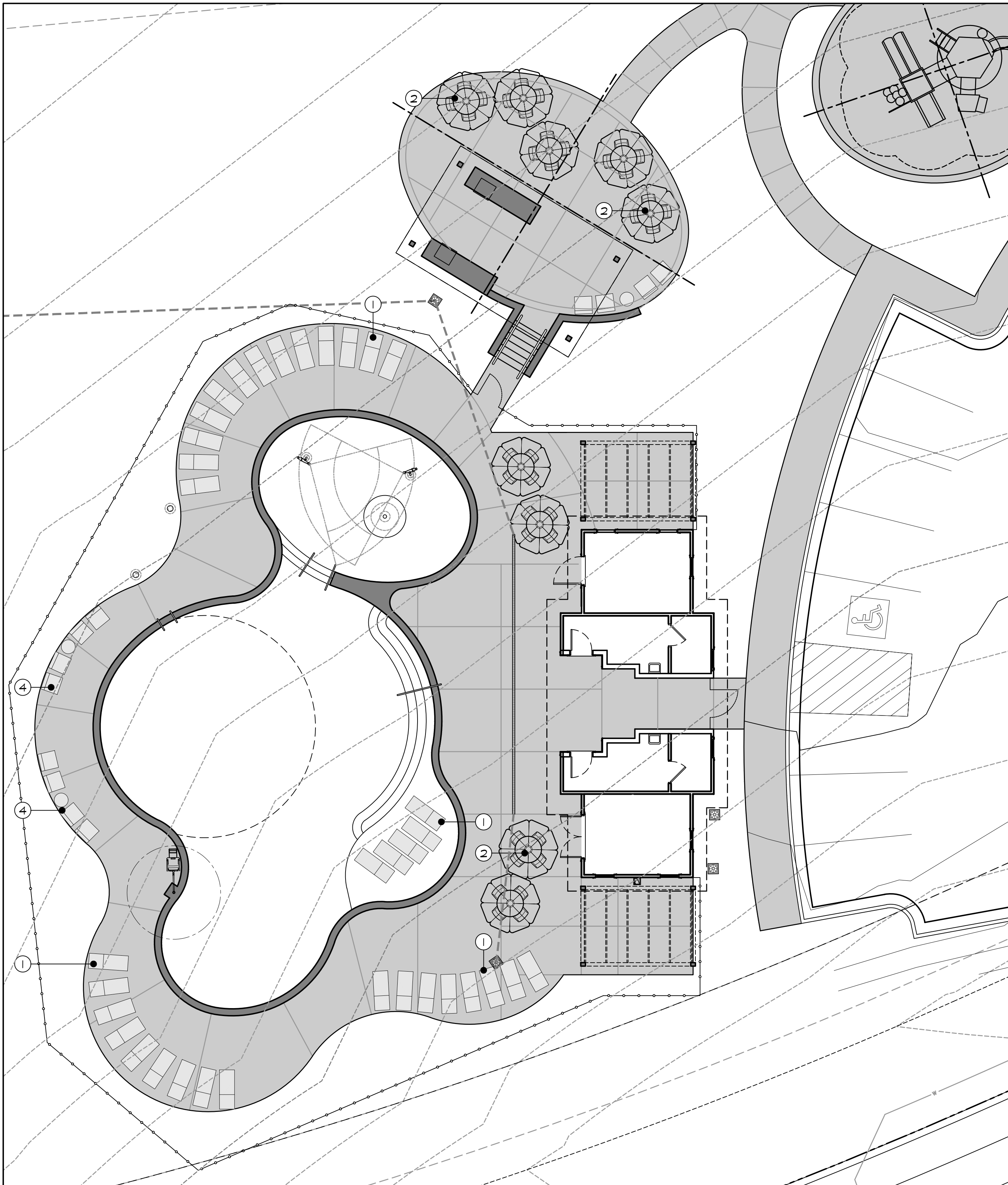
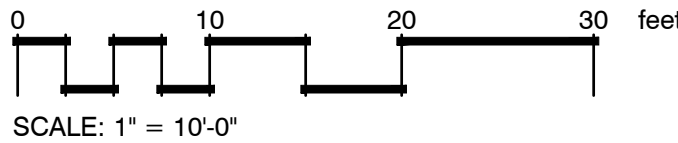
**GENERAL NOTES**

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2. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
3. ALL DRAINS SHALL TIE-IN TO CIVIL STORM SYSTEM. CONTRACTOR TO FIELD DETERMINE DRAIN INVERTS AND ENSURE POSITIVE DRAINAGE TO CIVIL STORM SYSTEM. COORDINATE WITH CIVIL

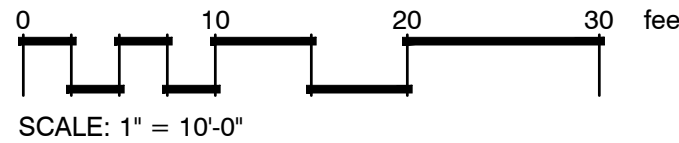




**POOL DECK SCORE JOINTS PLAN**  
**SCALE: 1"=10'-0"**



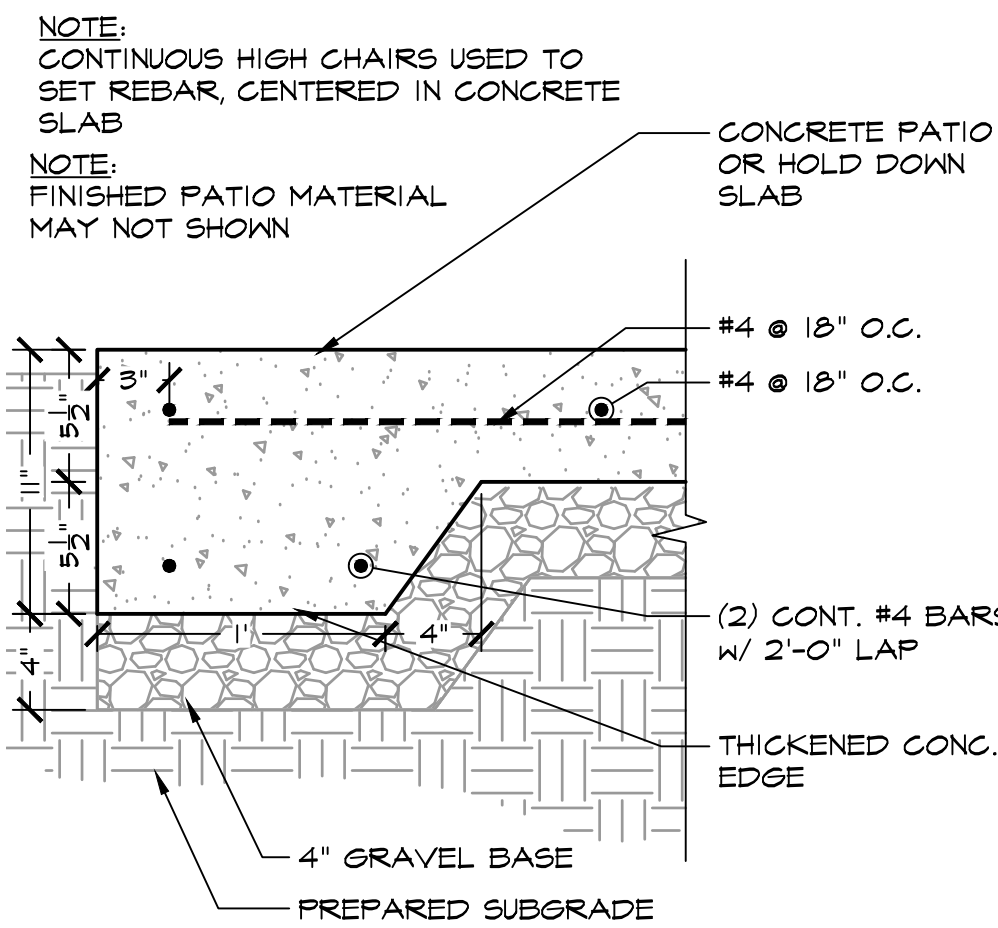
**FURNITURE LAYOUT PLAN**  
**SCALE: 1"=10'-0"**



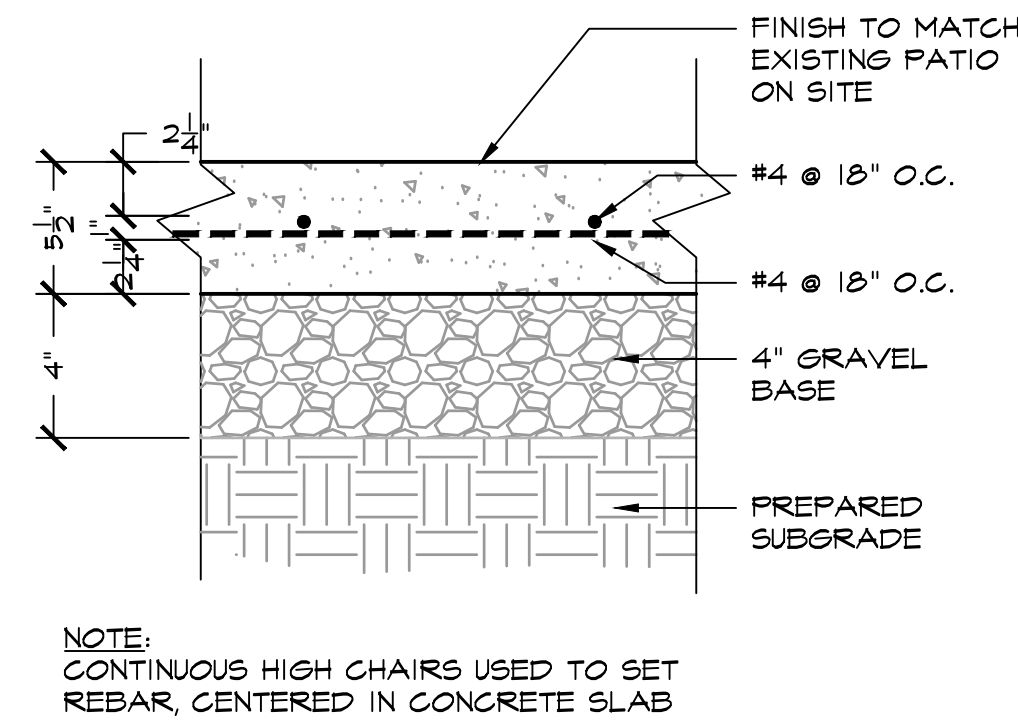
DETAILS LEGEND		
KEY	DETAIL	DESCRIPTION
①	POOL FURNITURE - LOUNGE CHAIR	BY OWNER
②	4-PERSON TABLE & CHAIRS W/ UMBRELLA	BY OWNER
③	4-PERSON TABLE & CHAIRS	BY OWNER
④	POOL FURNITURE - CHAIR	BY OWNER

**NOTES**

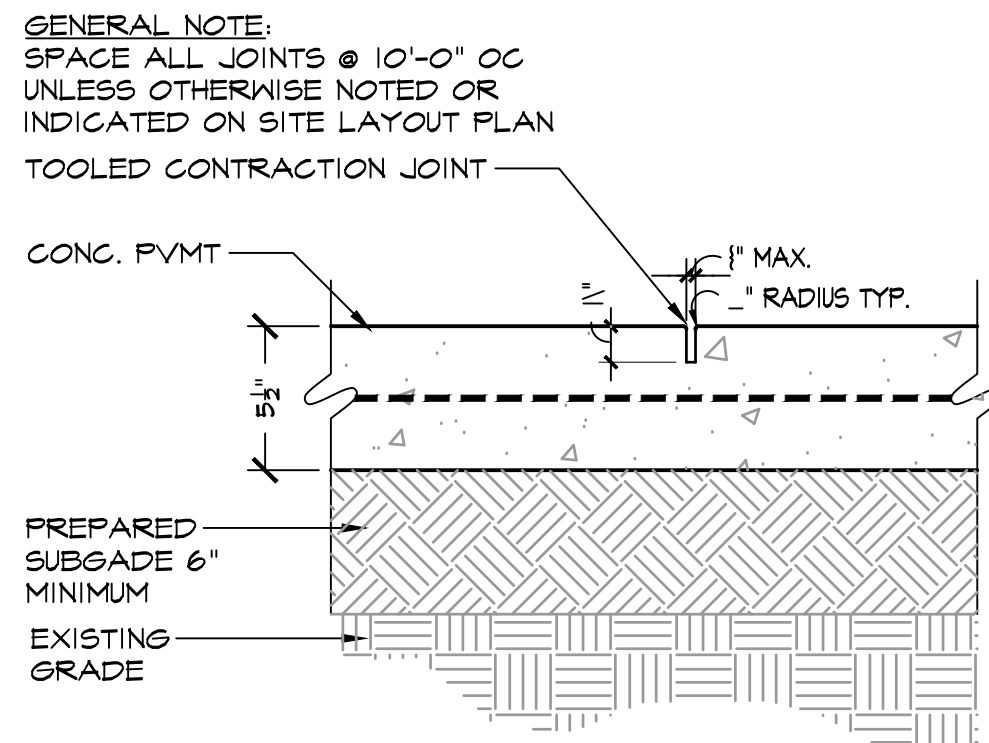
FURNISHING SHOWN FOR PRICING PURPOSES ONLY.  
 VERIFY FINAL SELECTION W/ ARCHITECT



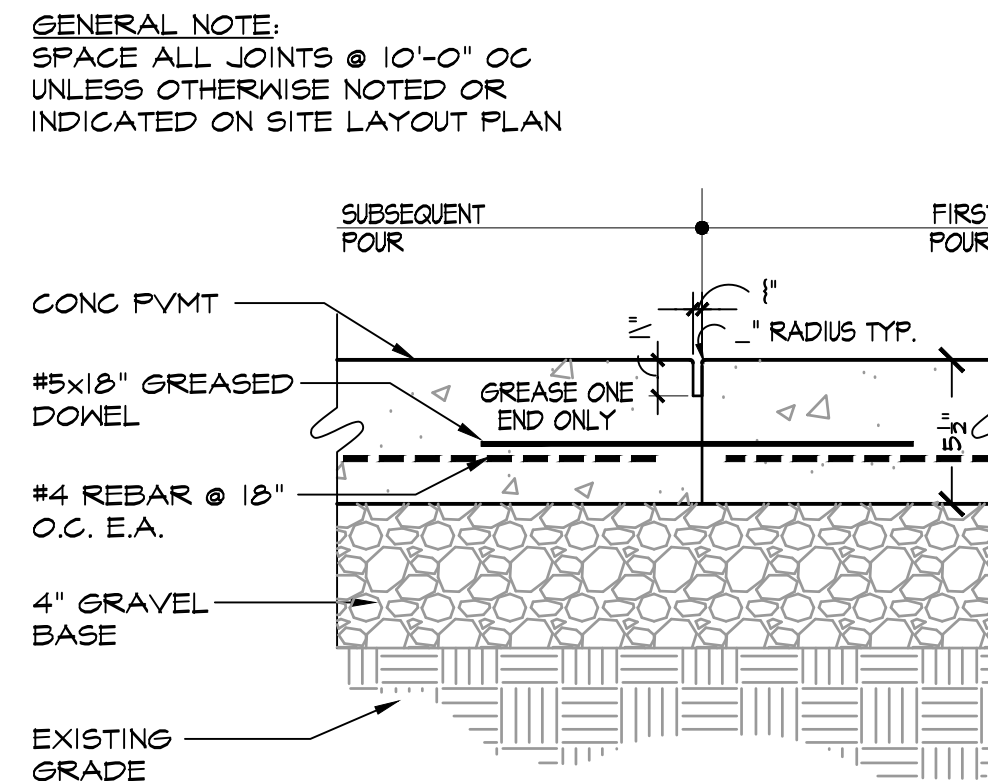
**1** CONCRETE THICKENED EDGE  
SCALE: 1-1/2" = 1'-0" SECTION



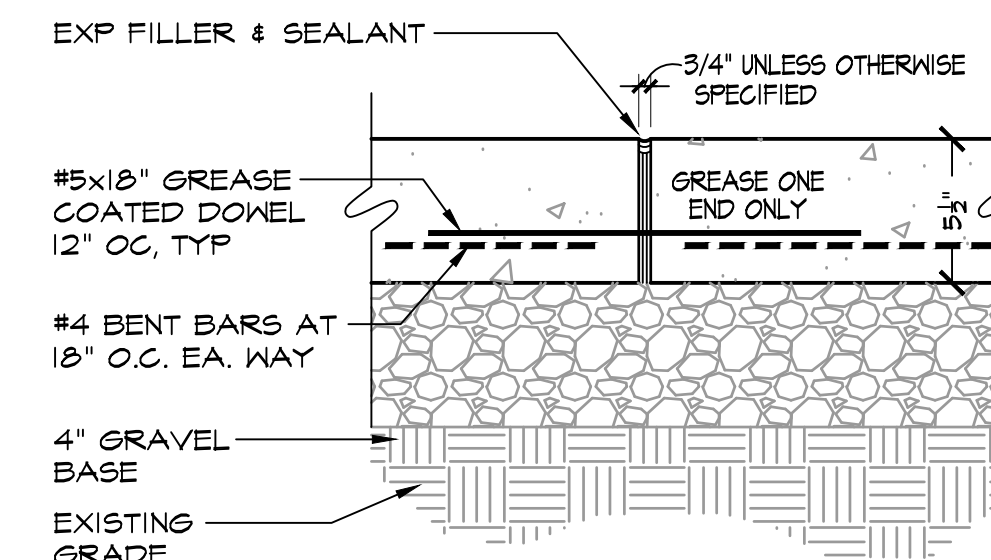
**2** CONCRETE PAVEMENT  
SCALE: 1-1/2" = 1'-0" SECTION



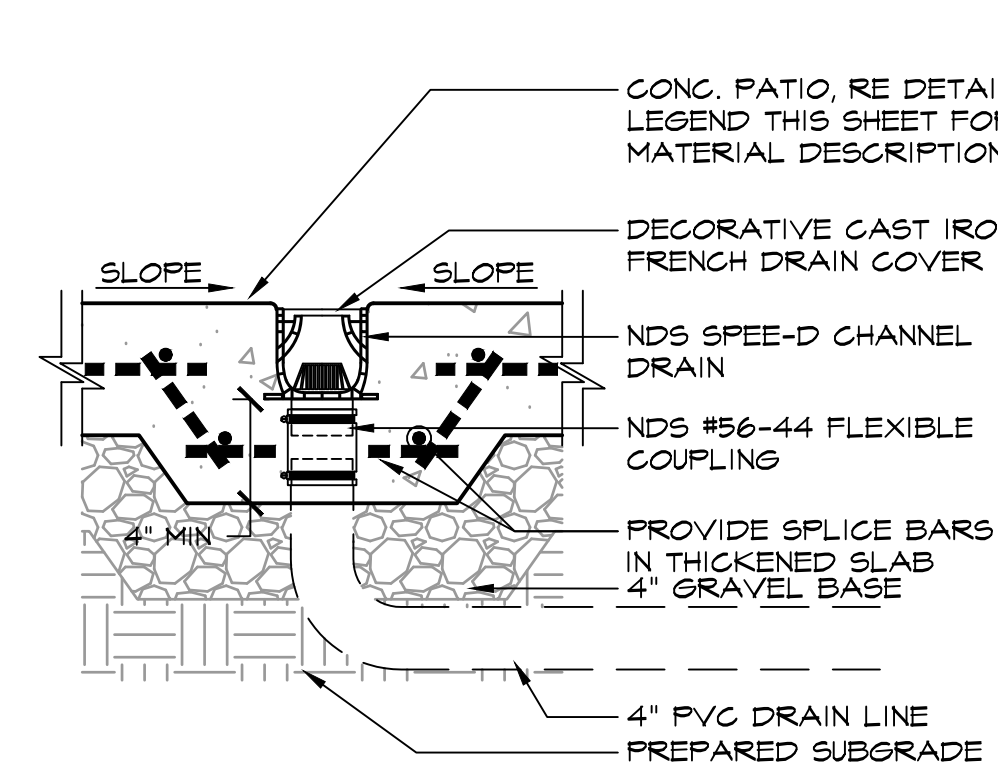
**3** CONCRETE CONTRACTION JOINT  
SCALE: 1-1/2" = 1'-0" SECTION



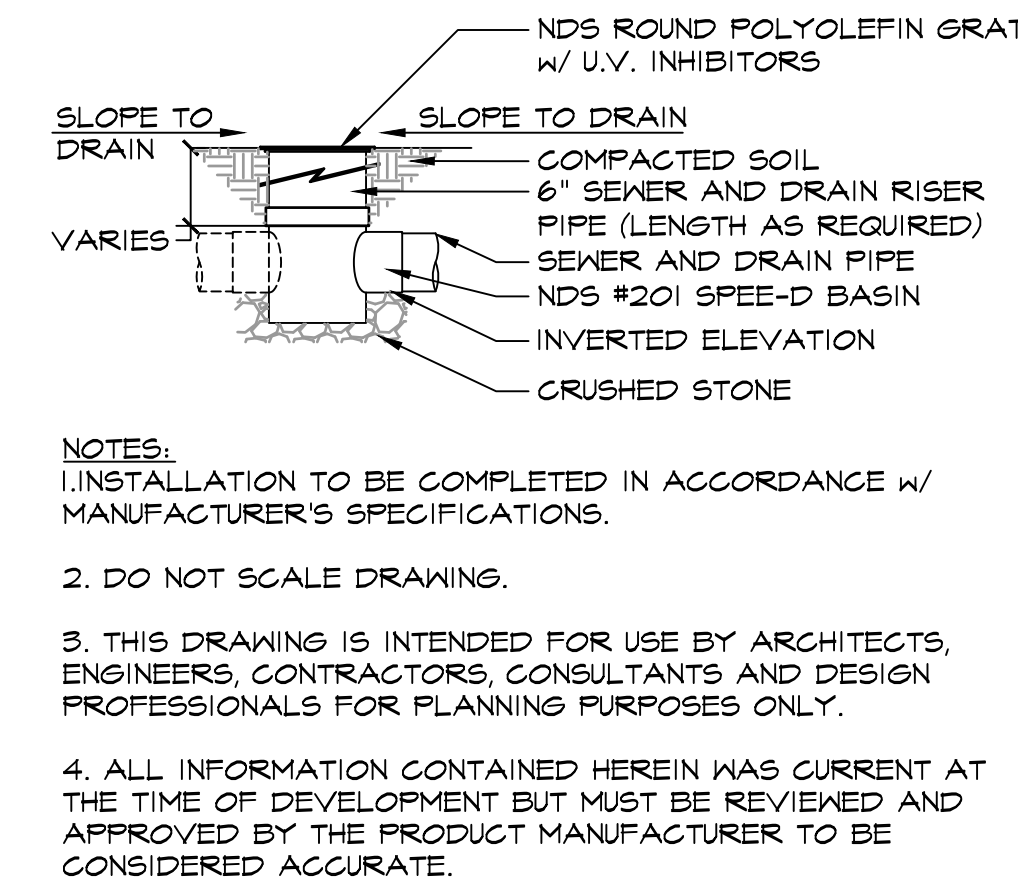
**4** CONCRETE CONSTRUCTION JOINT  
SCALE: 1-1/2" = 1'-0" SECTION



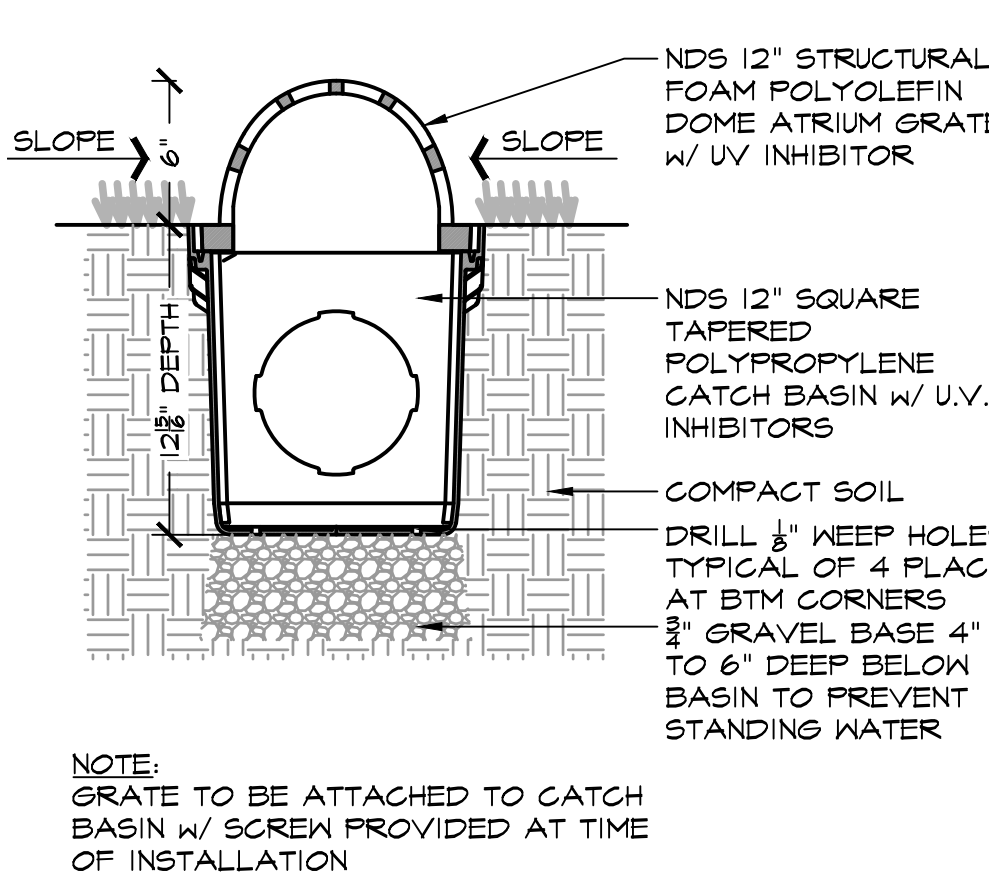
**5** GREASE DOWEL @ EXP JOINT  
SCALE: 1-1/2" = 1'-0" SECTION



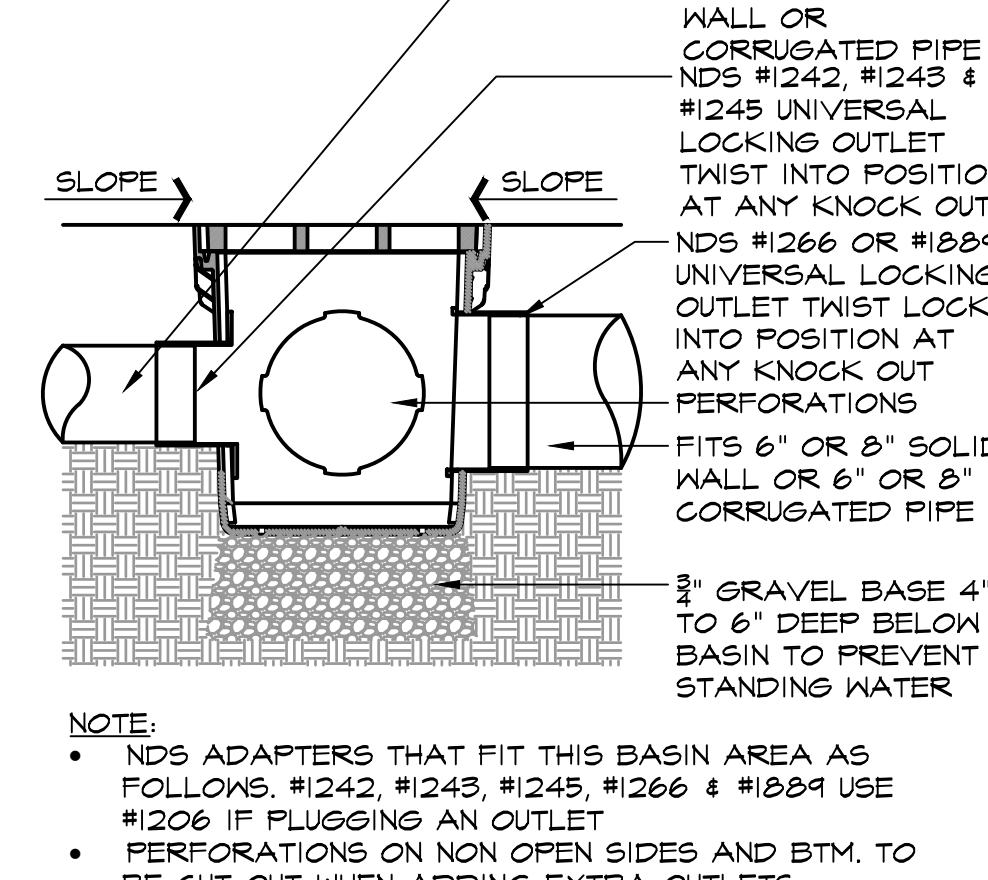
**6** TRENCH DRAIN  
SCALE: 1-1/2" = 1'-0" SECTION



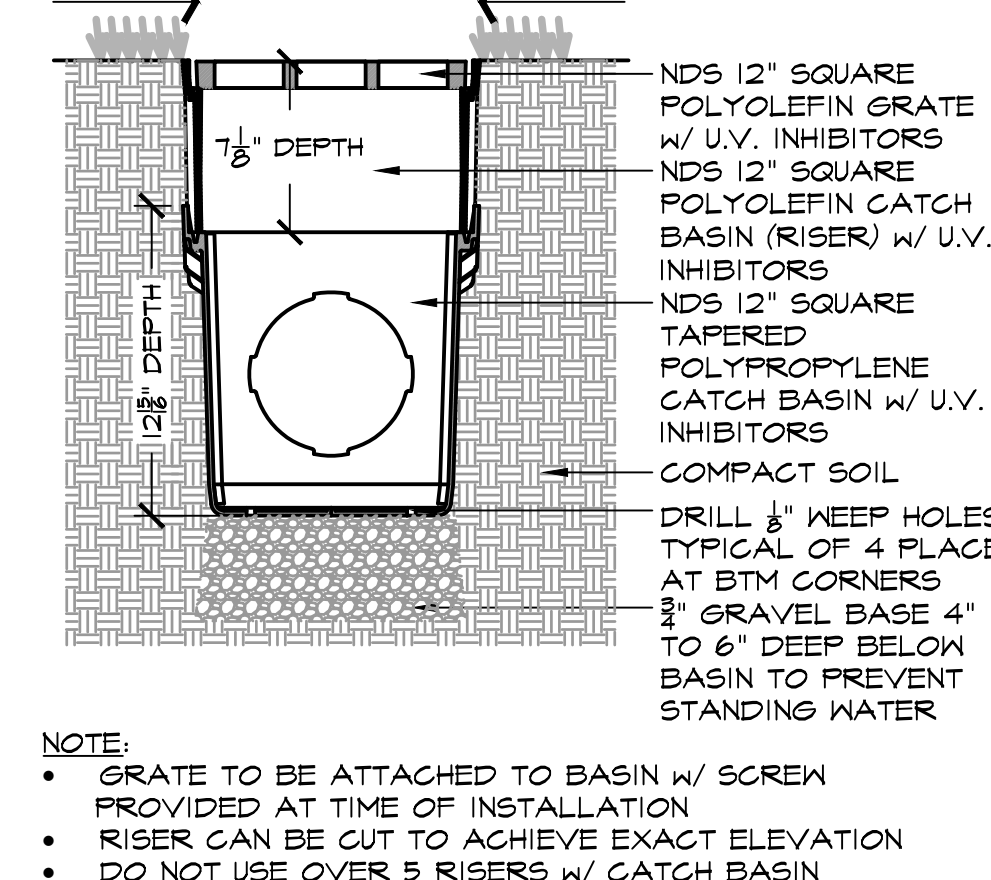
**7** NDS ROUND SPEED-D BASIN  
SCALE: 1-1/2" = 1'-0" SECTION



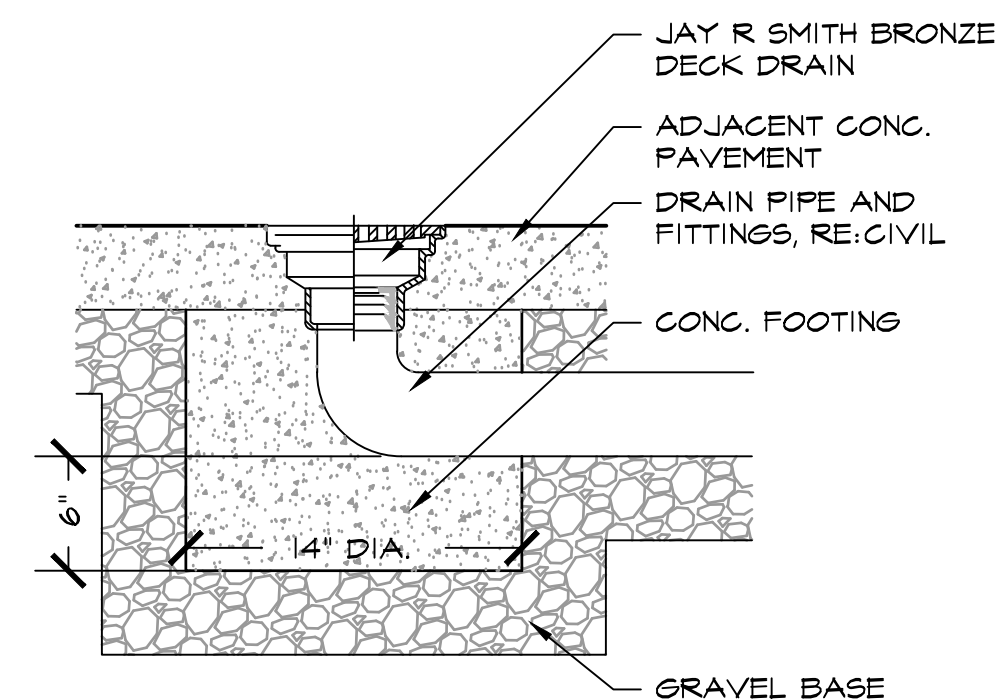
**8** CATCH BASIN @ LANDSCAPE AREAS  
SCALE: 1-1/2" = 1'-0" SECTION



**9** CATCH BASIN w/ PLUMBING  
SCALE: 1-1/2" = 1'-0" SECTION

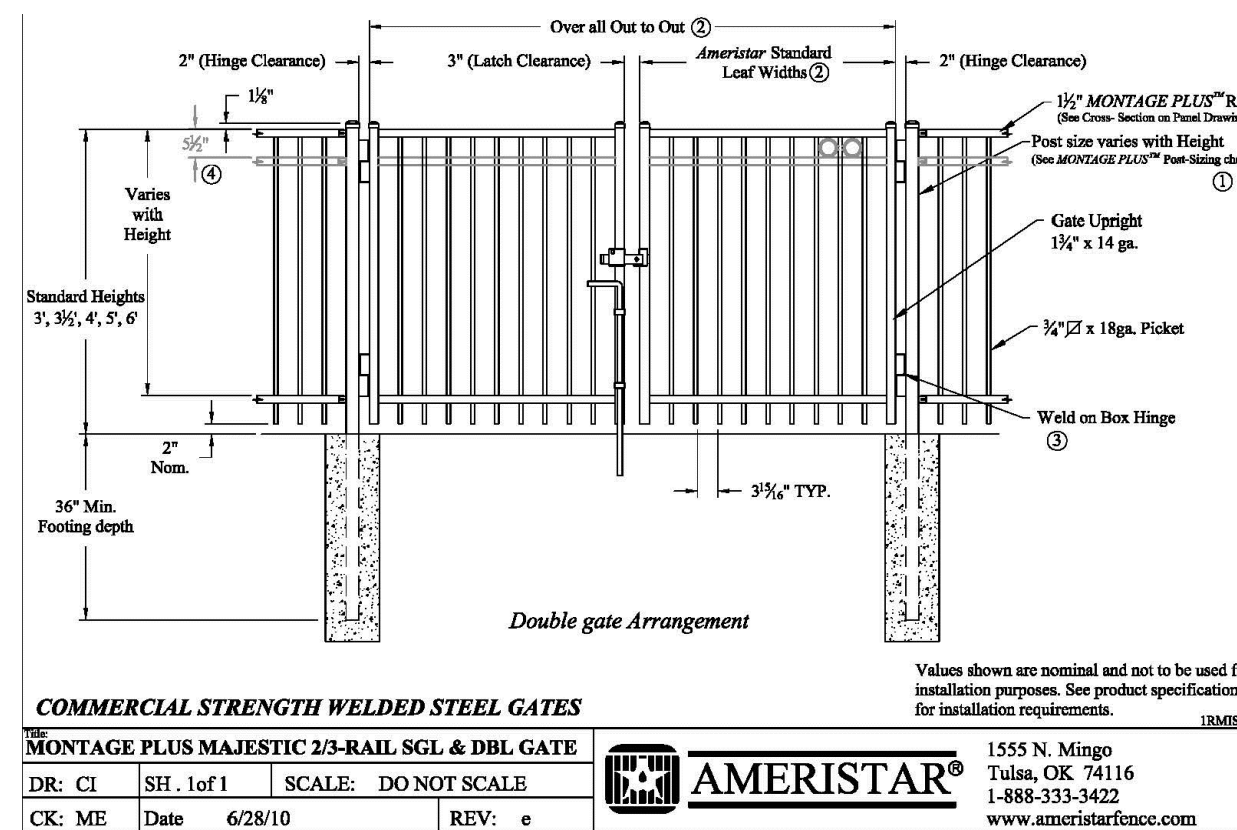


**10** CATCH BASIN w/ RISER  
SCALE: 1-1/2" = 1'-0" SECTION

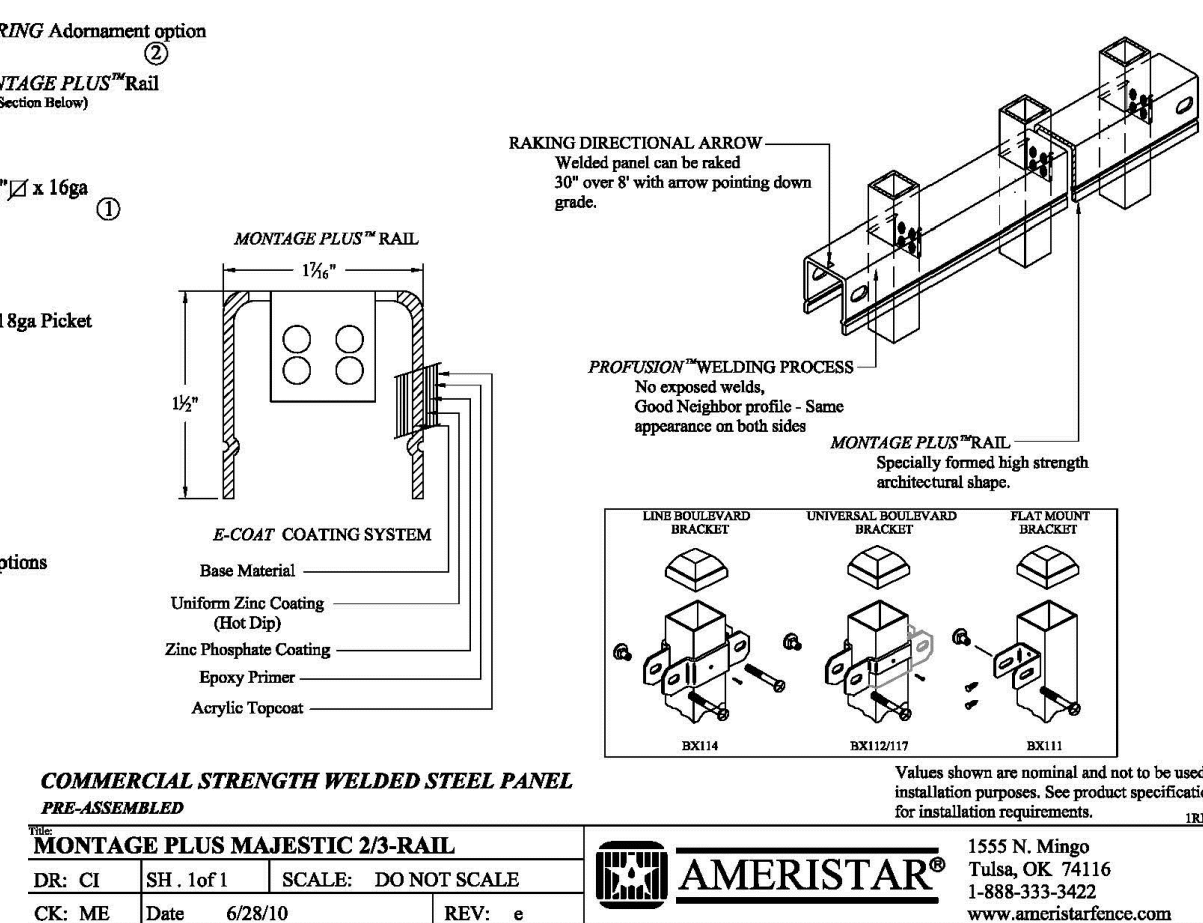


**11** POOL DECK AREA DRAIN  
SCALE: NTS

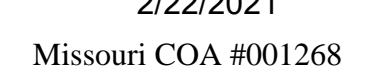
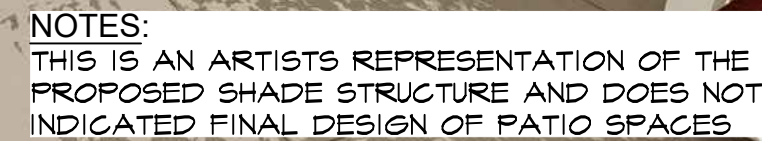
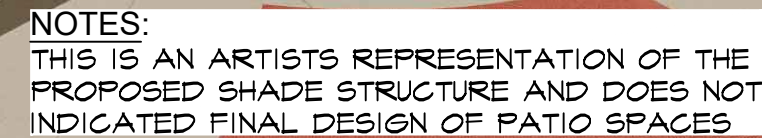
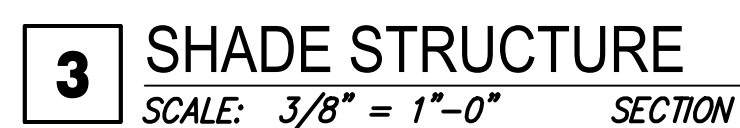
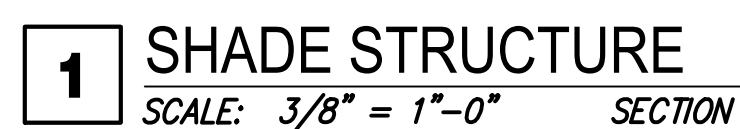
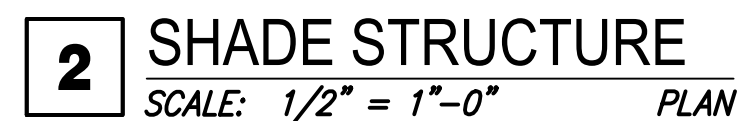
**12** POOL GATE  
SCALE: NTS



**13** POOL FENCING  
SCALE: NTS







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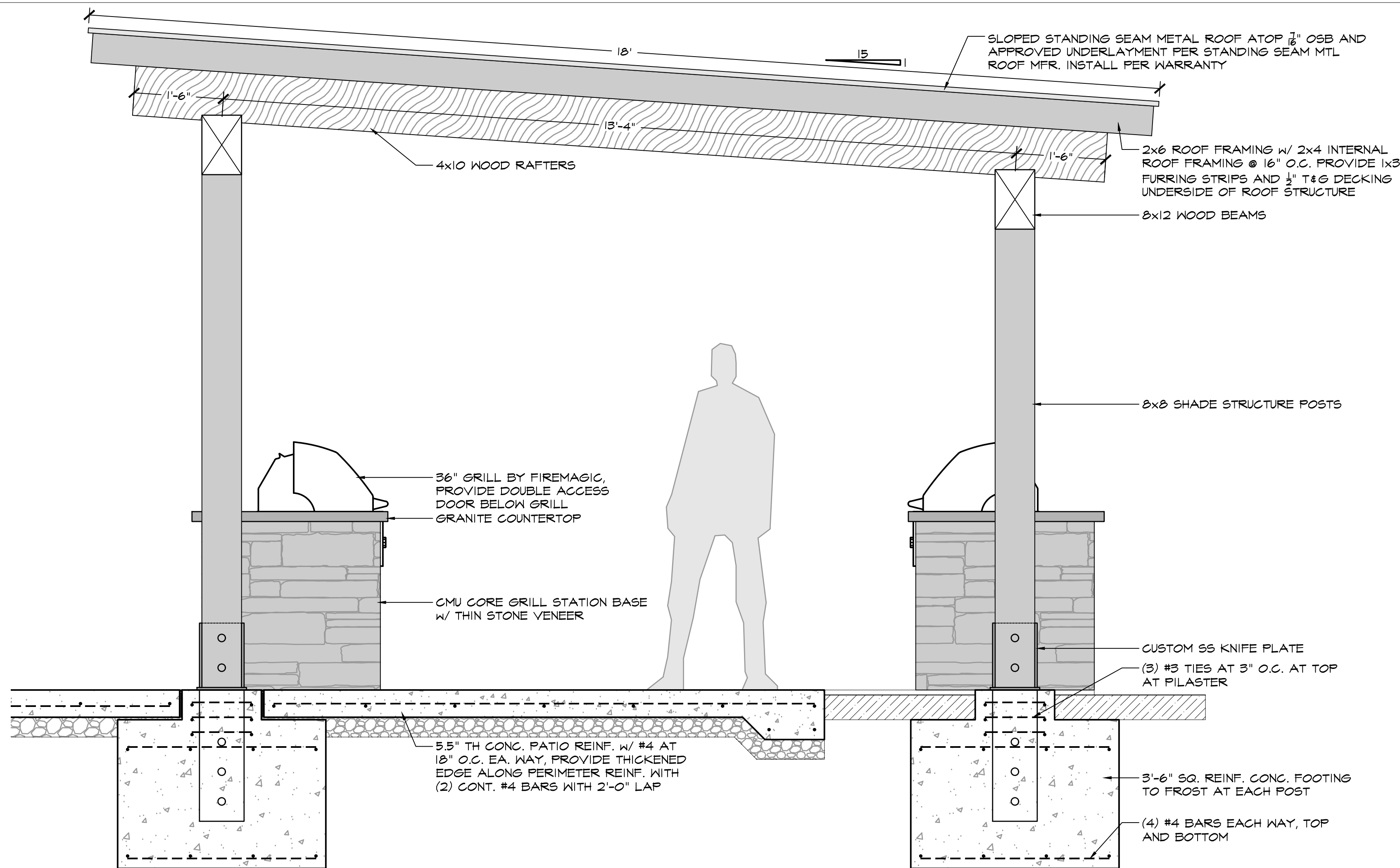
REVISION:

FEBRUARY 23, 2021

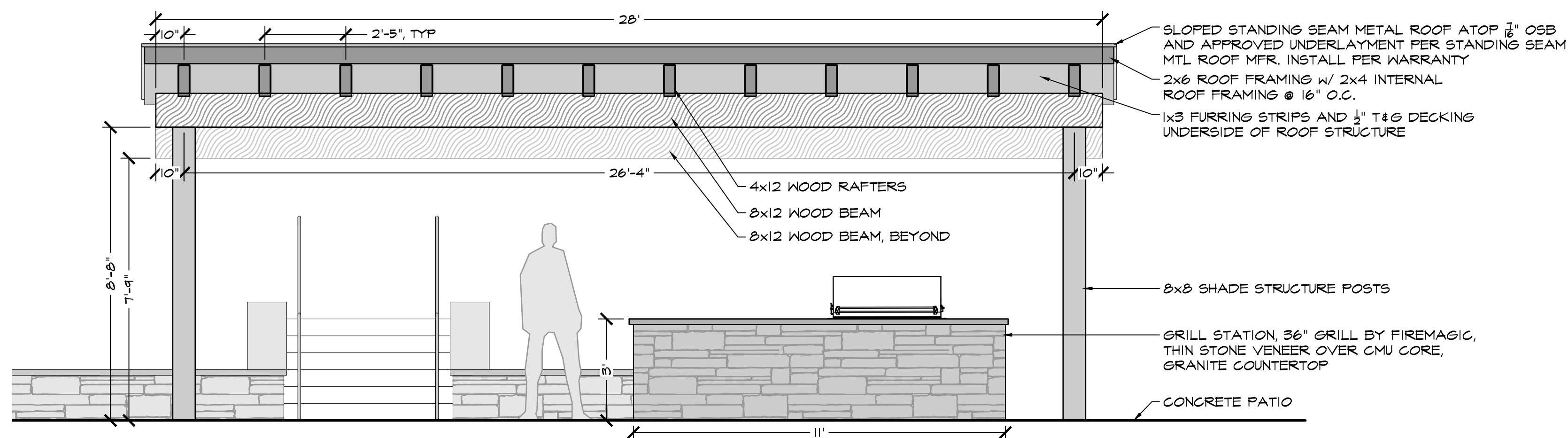
## SITE DETAILS

# L202

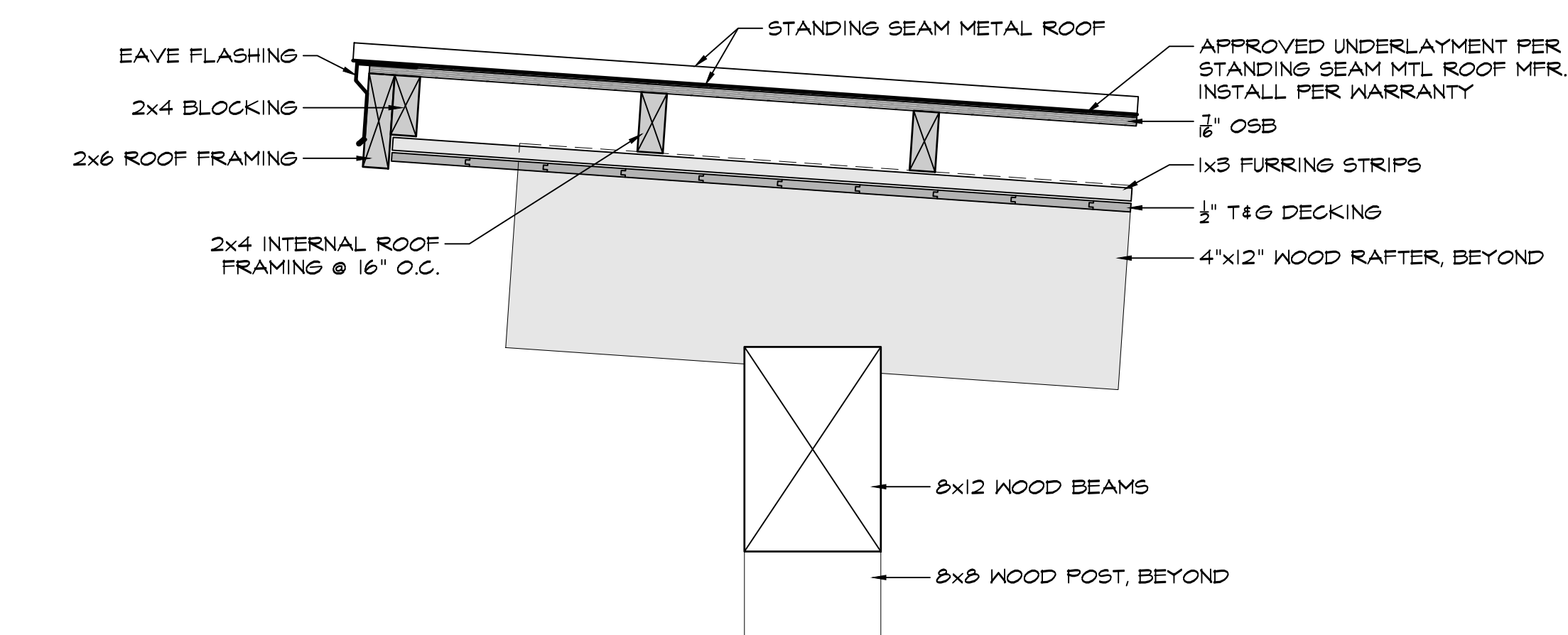




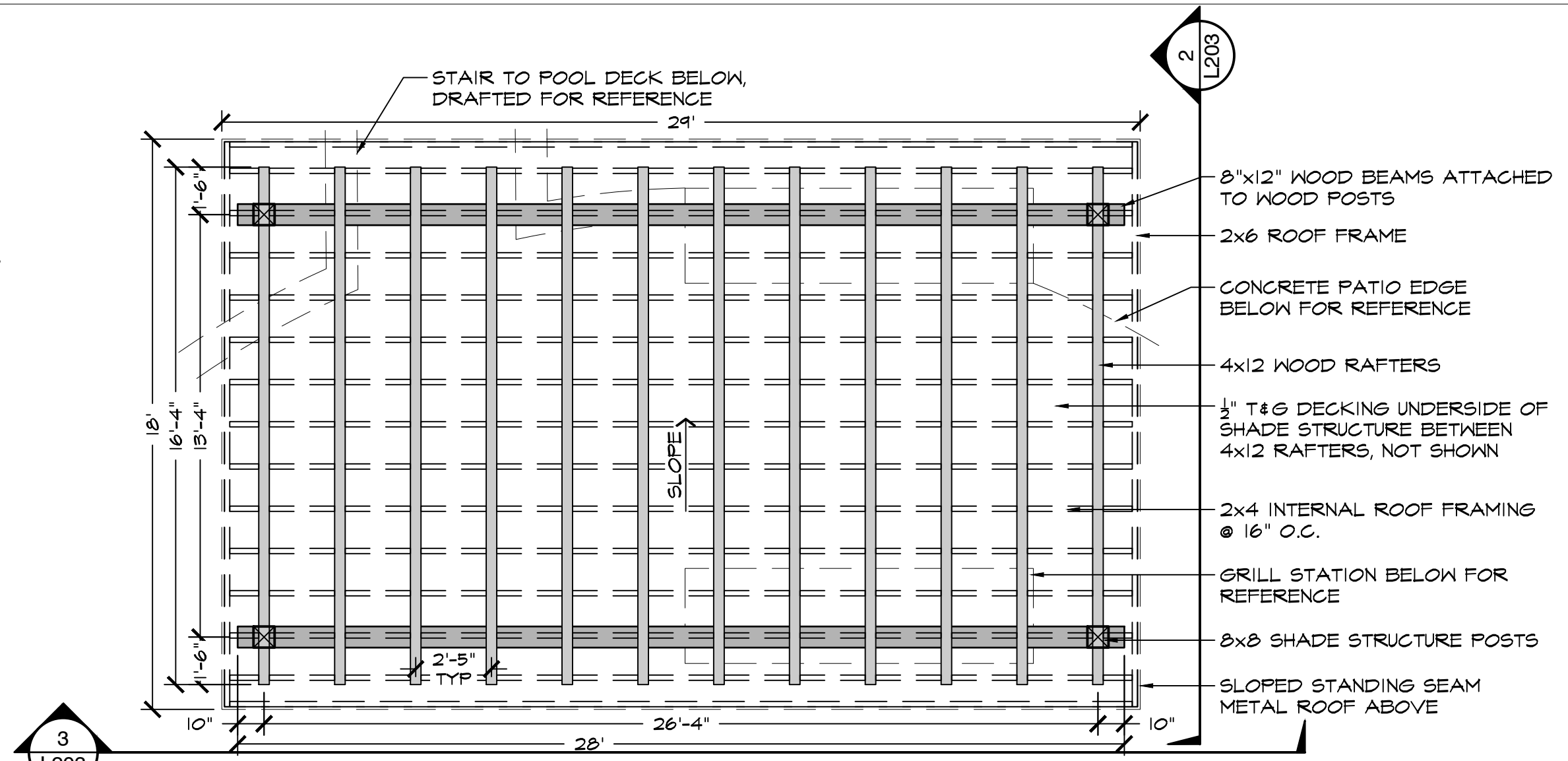
**2** SHADE STRUCTURE  
SCALE: 3/4" = 1'-0" SECTION



**3** SHADE STRUCTURE  
SCALE: 3/8" = 1'-0" ELEVATION



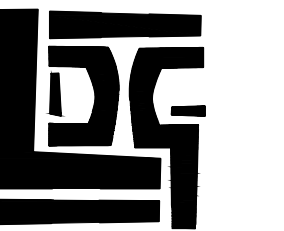
**5** SHADE STRUCTURE - ROOF  
SCALE: 1-1/2" = 1'-0" SECTION



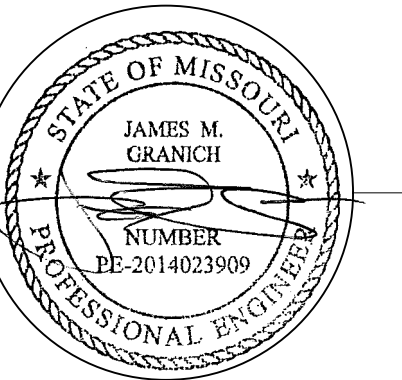
**1** SHADE STRUCTURE  
SCALE: 1/4" = 1'-0" PLAN



**4** SHADE STRUCTURE VIGNETTE  
SCALE: NTS ILLUSTRATIVE VIEW



**LORAX  
DESIGN GROUP**  
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2/22/2021  
Missouri COA #001268

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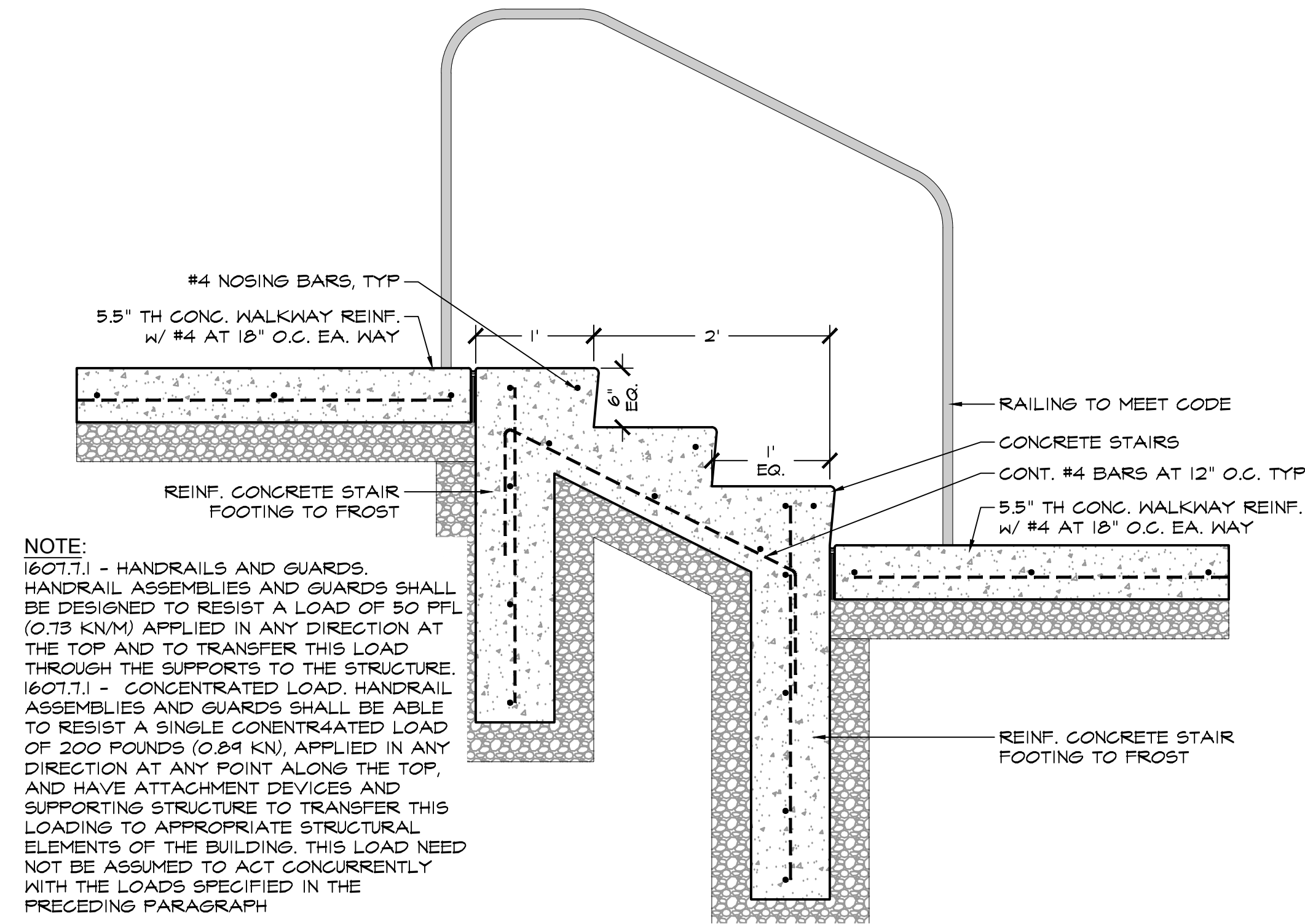
REVISION:

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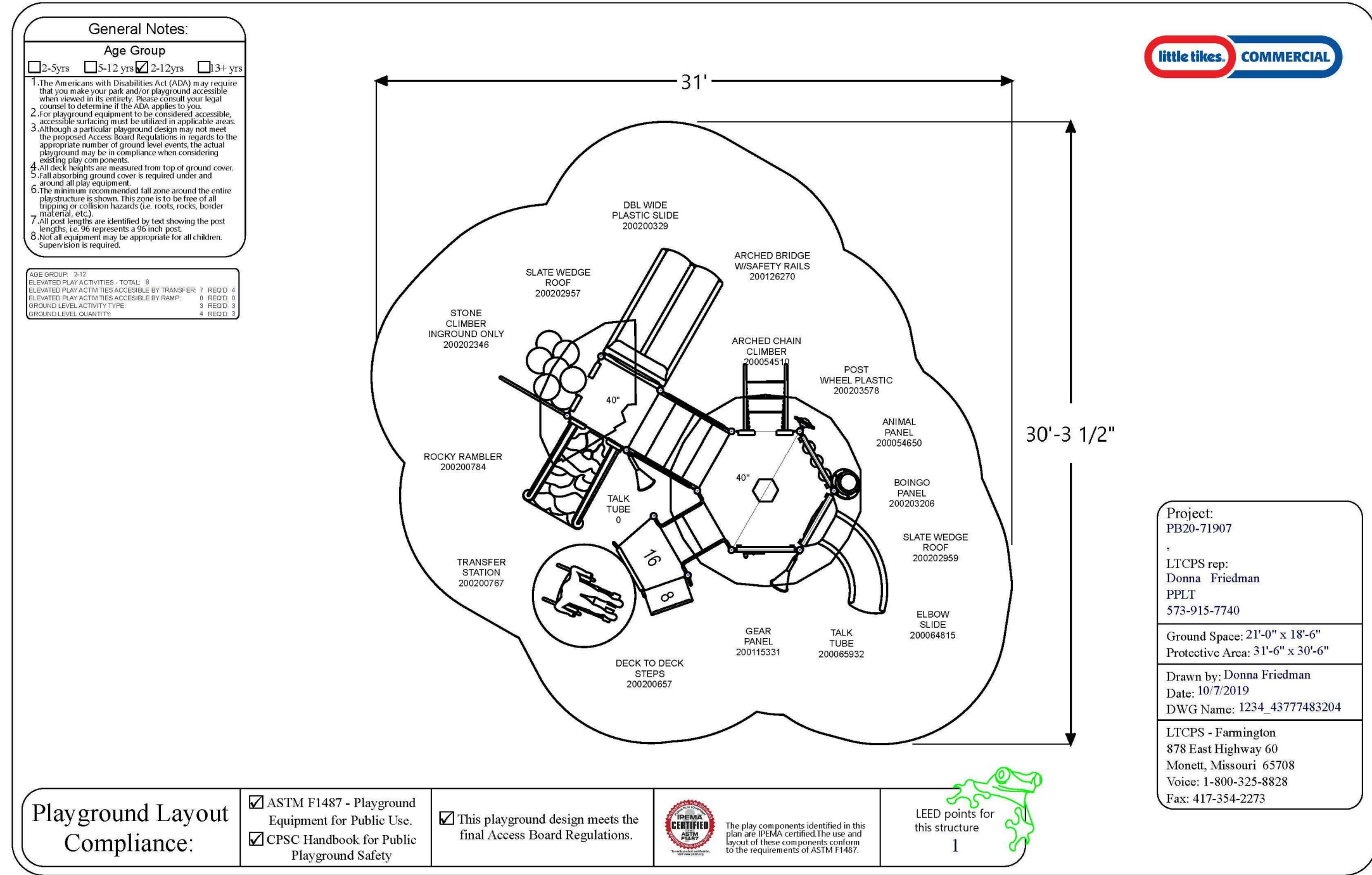
SITE DETAILS

**L203**

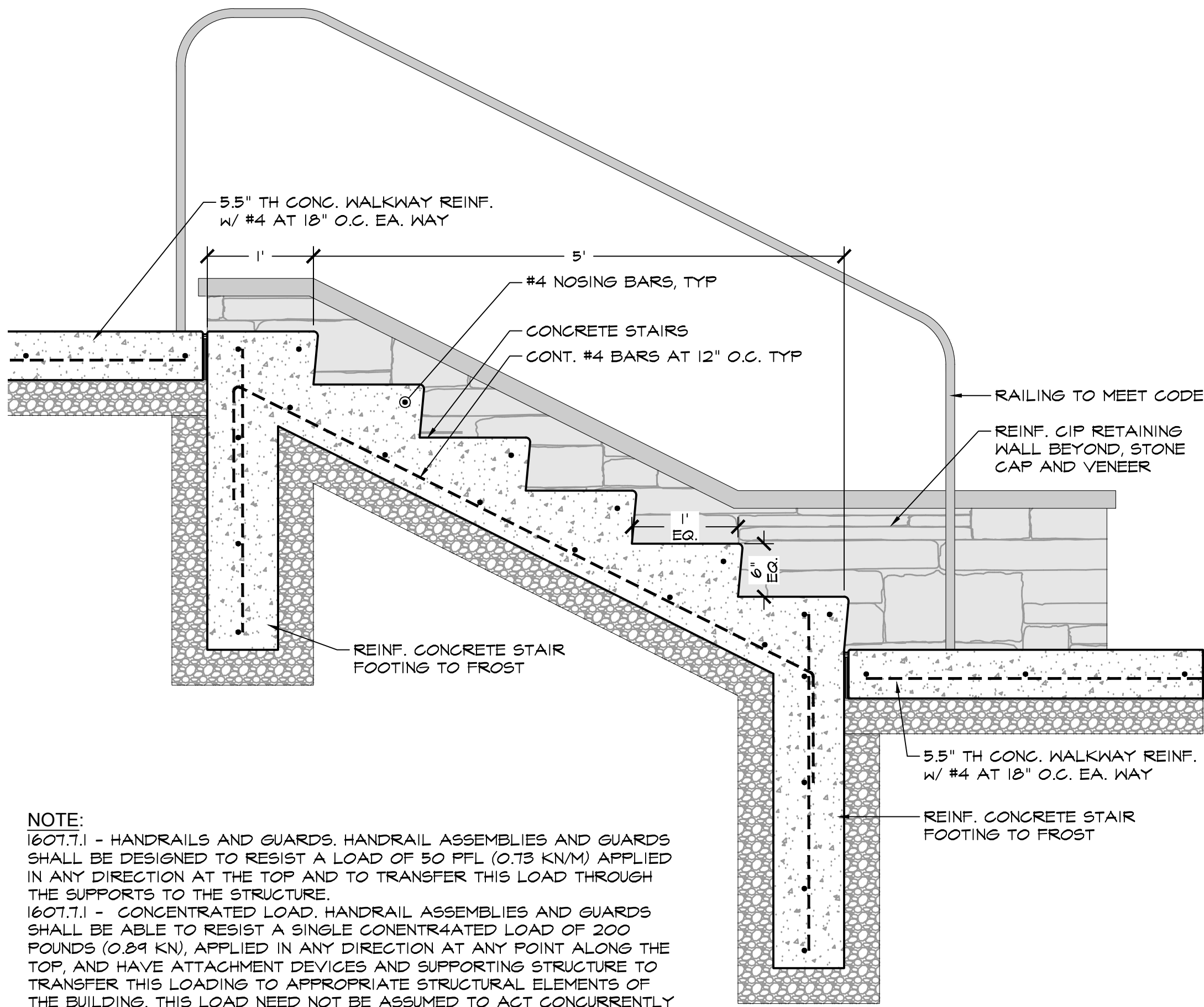




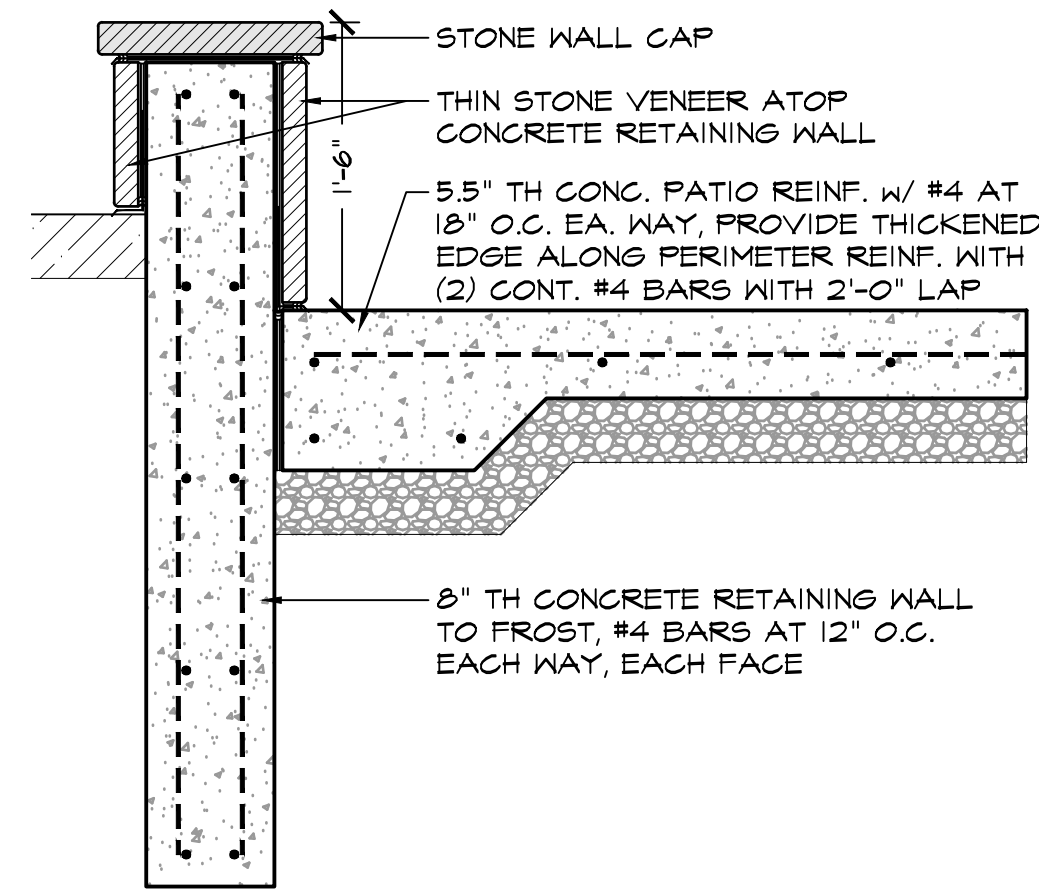
**2 SEAT/RETAINING WALL**  
SCALE: 1" = 1'-0" SECTION



**4 PLAYGROUND LAYOUT**  
SCALE: NTS MANUF. SPECS

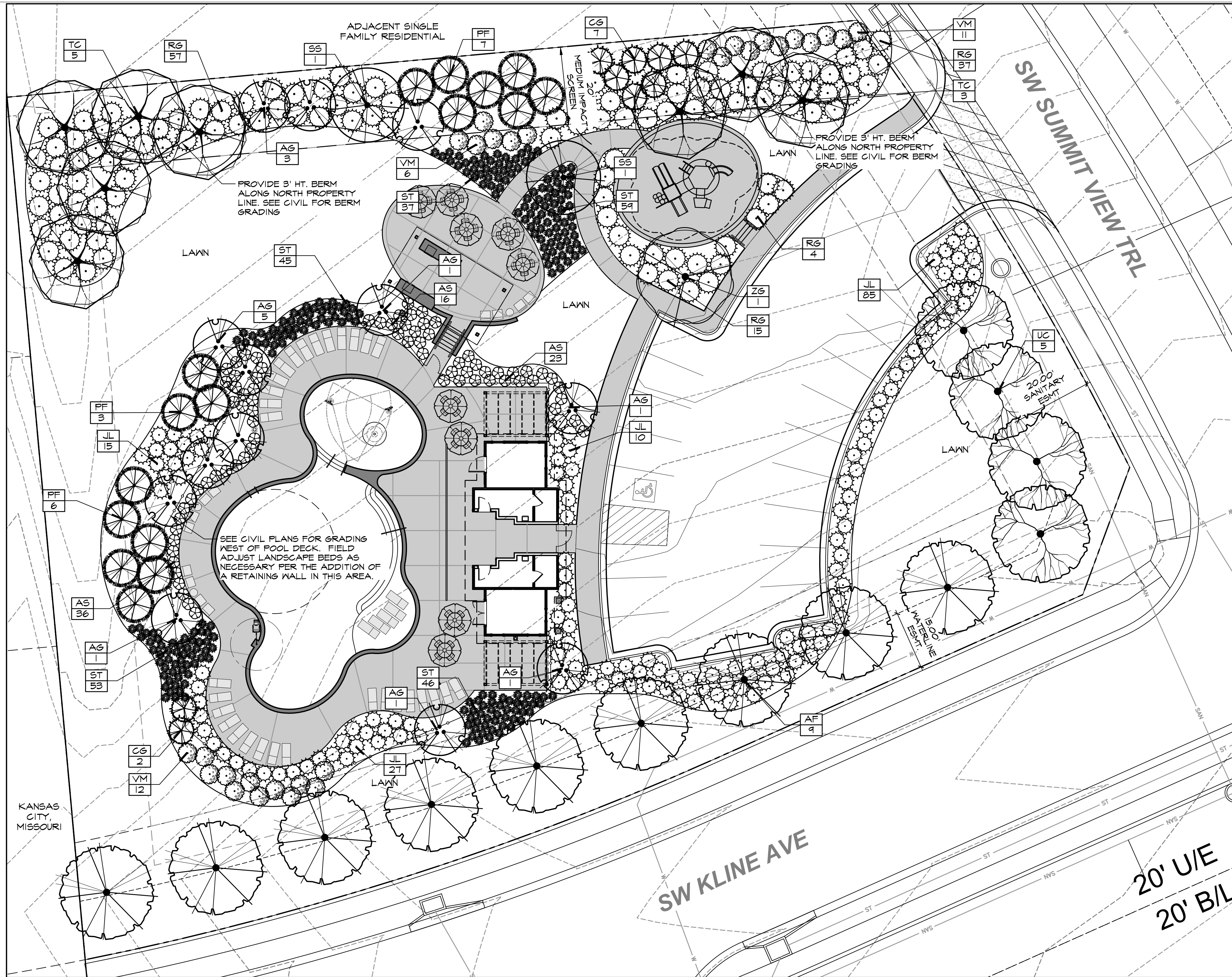


**3 CONCRETE STAIRS**  
SCALE: 1" = 1'-0" SECTION



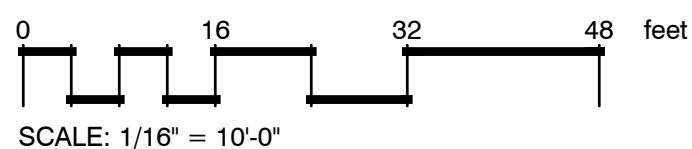
**1 SEAT/RETAINING WALL**  
SCALE: 1" = 1'-0" SECTION





## LANDSCAPE PLAN

SCALE: 1/16"=1'-0"



## PLANT SIZE REQUIREMENTS

(FOR THOSE PLANTS SATISFYING LEE'S SUMMIT REQUIREMENTS)

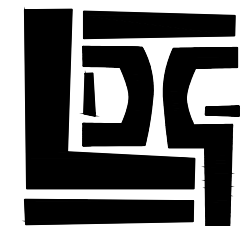
LANDSCAPE MATERIAL	SIZE REQUIREMENT (AT TIME OF PLANTING)
MEDIUM SHRUBS	18"-24" B&B OR 2-GAL. CONTAINER
LARGE SHRUBS	24"-30" B&B OR 5-GAL. CONTAINER
GROUND COVER	2 1/2" PEA POT
DECIDUOUS TREES	3" CALIFER
EVERGREEN TREES	8" HT. MIN.

## LEE'S SUMMIT LANDSCAPE REQUIREMENTS

CODE REQUIREMENT	SECTION 8.140(A) - PROVIDE 1 STREET TREE PER 30 LF OF STREET FRONTAGE		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
- PROVIDE 1 TREE / 30 LF OF STREET FRONTAGE	- 275 LF FRONTAGE ALONG SW KLINE AVE / 30 = 4.2 - 195 LF FRONTAGE ALONG SW SUMMIT VIEW TRL / 30 = 4.5	- 10 STREET TREES REQUIRED ALONG SW KLINE AVE - 5 STREET TREES REQUIRED ALONG SW SUMMIT VIEW TRL	- 10 STREET TREES PROVIDED ALONG SW KLINE AVE - 5 STREET TREES PROVIDED ALONG SW SUMMIT VIEW TRL
CODE REQUIREMENT	SECTION 8.140(B) - PROVIDE 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA AND 1 TREE PER 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS OR STRUCTURES		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE 2 SHRUBS PER 5,000 SF OF TOTAL LOT AREA AND 1 TREE PER 5,000 SF OF LOT AREA NOT COVERED BY BUILDINGS OR STRUCTURES	(44,842 SF SITE / 5,000) x 2 = 19.46 (44,842 - 463 SF BLDGS) / 5,000 = 4.18	20 OPEN SPACE SHRUBS REQUIRED 10 OPEN SPACE TREES REQUIRED	OPEN SPACE SHRUBS PROVIDED 21 OPEN SPACE TREES PROVIDED
CODE REQUIREMENT	SECTION 8.820 - PROVIDE SCREENINGS OF THE PARKING WHERE VISIBLE FROM THE R.O.W. TO A HEIGHT OF 2.5 FEET. SCREEN SHALL CONSIST OF A HEDGE PLANTED WITH 12 SHRUBS PER 40 LF. SHRUBS SHALL BE 18" AT THE TIME OF PLANTING.		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE 12 SHRUBS/40 LF ALONG PARKING FACING SW KLINE AVE & SW SUMMIT VIEW TRL	(175 LF PARKING LOT FRONTAGE / 40) x 12 = 53	53 SHRUBS REQUIRED	71 SHRUBS PROVIDED
CODE REQUIREMENT	SECTION 6.510 - PROVIDE A MEDIUM IMPACT SCREEN LOCATED ON A 3-FOOT TALL BERM ALONG ANY COMMON PROPERTY LINE SHARED WITH A RESIDENTIAL DWELLING. PROVIDE 1 SHADE TREE/300 SF, 1 ORNAMENTAL TREE/150 SF, 1 EVERGREEN TREE/300 SF AND 1 SHRUB/200 SF		
DESCRIPTION	CALCULATION	PLANTING REQUIRED	PLANTING PROVIDED
PROVIDE 1 SHADE TREE/300 SF, 1 ORNAMENTAL TREE/150 SF, 1 EVERGREEN TREE/300 SF, 1 SHRUB/200 SF ALONG NORTH PROPERTY LINE	4,522 SF BUFFER / 300 = 4.04 4,522 SF BUFFER / 150 = 6.03 4,522 SF BUFFER / 300 = 15.07 4,522 SF BUFFER / 200 = 22.61	4 SHADE TREES REQUIRED 6 ORNAMENTAL TREES REQUIRED 15 EVERGREEN TREES REQUIRED 22 SHRUBS REQUIRED	4 SHADE TREES PROVIDED 6 ORNAMENTAL TREES PROVIDED 15 EVERGREEN TREES PROVIDED 26 SHRUBS PROVIDED

## PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
	AF	Acer x freemanii / Freeman Maple	3" Cal.	B&B
	TC	Tilia cordata / Littleleaf Linden	3" Cal.	B&B
	UC	Ulmus x 'Frontier' / Frontier Hybrid Elm	3" Cal.	B&B
	Z6	Zelkova serrata 'Green Vase' / Green Vase Sawleaf Zelkova	3" Cal.	B&B
EVERGREEN TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
	CG	Cedrus atlantica 'Glauca Fastigiata' / Blue Columnar Atlas Cedar	8"-9" ht.	B&B
	PF	Pinus strobus 'Fastigiata' / Pyramidal White Pine	8"-9" ht.	B&B
ORNAMENTAL TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Serviceberry	3" Cal.	B&B
	SS	Syringa reticulata 'Summer Snow' / Summer Snow Japanese Tree Lilac	3" Cal.	B&B
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
	AS	Aronia melanocarpa 'UGONNAMO12' TM / Ground Hog Spreading Chokeberry	#3	
	JL	Juniperus chinensis 'Gold Lace' / Gold Lace Juniper	#5, 24" ht. min.	
	R6	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac	#3	
	VM	Viburnum dentatum 'Blue Muffin' / Blue Muffin Viburnum	#5, 24" ht. min.	
GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER
	ST	Sporobolus heterolepis 'Tara' / Prairie Dropseed	#2	



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2-23-2021

**SUMMIT VIEW FARMS**  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

REVISION:

FEBRUARY 23, 2021

LANDSCAPE PLAN

**L301**



GENERAL NOTES

1. THE LANDSCAPE CONTRACTOR SHALL READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT.
2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
3. THE LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN) PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MULCHING, AND OTHER REQUIREMENTS OF PLANT MATERIALS WHILE THEY ARE TEMPORARILY STORED ON OR OFF SITE.
5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED LOCATION OF TREES AND INSTALLATION OF PLANT MATERIAL WITH LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
6. ALL PLANT MATERIAL (EXCEPT SHADE TREES) IS DELINEATED AT MATURE SIZE OF PLANT MATERIAL. SHADE TREES ARE DELINEATED AT 85% OF ACTUAL MATURE SIZE.
7. ALL LANDSCAPE MATERIAL SHALL MEET THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-1996) PER THE AMERICAN ASSOCIATION OF NURSERYMEN.
8. PER OWNER'S DIRECTION, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIAL AT THE NURSERY, PRIOR TO SELECTION OR DIGGING.
9. CONDUCT PLANTING UNDER FAVORABLE WEATHER CONDITIONS DURING EITHER THE SPRING PLANTING SEASON, MARCH 1 TO JUNE 1, OR THE FALL PLANTING SEASON, SEPTEMBER 30 UNTIL FREEZING OF THE GROUND. DURING THE FALL PLANTING SEASON, CONIFEROUS MATERIAL PLANTING SHALL BE CONDUCTED AUGUST 15 TO OCTOBER 1. DEVIATION FROM THE ABOVE PLANTING DATES WILL ONLY BE PERMITTED WITH APPROVAL IN WRITING BY THE LANDSCAPE ARCHITECT."
10. THE PLANTING SOIL MIXTURE FOR ALL TREE PLANTINGS SHALL INCLUDE SOIL EXCAVATED FROM THE HOLE. RATIO: 50% VIRGIN SOIL + 50% AMENDED TOP SOIL.
11. ROOT STIMULATOR SHALL BE APPLIED TO ALL PLANT MATERIALS WITH THE EXCEPTION OF LAWN AREAS. APPLY AS PER THE MANUFACTURER'S SPECIFICATIONS.
12. THE LANDSCAPE CONTRACTOR SHALL RESTORE FINISH GRADES IN ALL PLANTING AREAS (PER GRADING PLANS) WHICH MAY HAVE BEEN DISTURBED DURING PLANTING OPERATIONS.
13. ALL TREE SAUCERS AND PLANTING BEDS ARE TO BE MULCHED WITH A MINIMUM OF 3" DOUBLE-GROUND HARDWOOD MULCH (COLOR DYED DARK BROWN). LANDSCAPE CONTRACTOR TO PROVIDE MULCH SAMPLE TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO INSTALLATION. WHERE PLANTING BEDS ARE ADJACENT TO WALKS AND CURBS THE SOIL LEVEL SHALL BE 3" LOWER TO ALLOW FOR MULCH LAYER. WHERE SOD IS INDICATED, ITS THICKNESS SHALL ALSO BE ACCOUNTED FOR SO THAT THE SOIL SURFACE IN THE SOD IS 1/2" BELOW THE HARDSCAPE SURFACE.
14. ALL SHRUB/PERENNIAL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE SUCH AS TREFLAN OR EQUAL. APPLY PER MANUFACTURER'S SPECIFICATIONS. THE PRE-EMERGENT SHALL NOT BE APPLIED UNTIL AFTER ALL PLANTING WITHIN THESE AREAS IS COMPLETE, BUT BEFORE THESE AREAS ARE MULCHED. DO NOT DISTURB AREAS AFTER APPLICATION. WATER IN AS DIRECTED.
15. MULCH, STAKES, GUY WIRE, PRE-EMERGENT HERBICIDES, ETC. SHALL BE SUBSIDIARY TO INDIVIDUAL PLANTS.
16. ALL SLOPES THAT EXCEED A 3:1 GRADE SHALL BE PROTECTED WITH AN EROSION CONTROL BLANKET WITH NORTH AMERICAN GREEN S150. INSTALL PER THE MANUFACTURER'S SPECIFICATIONS.
17. LABEL EACH TREE AND SHRUB WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTH BOTANICAL AND COMMON NAME. LABEL EACH ORNAMENTAL GRASS, GROUNDCOVER, PERENNIAL AND ANNUAL WITH THE LABEL PROVIDED BY THE ORIGINAL GROWER OF THE PLANT. LABELS SHALL NOT BE REMOVED UNTIL AFTER PROVISIONAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
18. STAKES AND GUY WIRES SHALL BE REMOVED AT THE END OF ONE FULL GROWING SEASON.
19. LOOSEN SOIL FOR ALL PLANTING ISLANDS AND SHRUB/PERENNIAL BEDS TO A DEPTH OF 12". ALL AREAS DENOTED AS SOD (LAWN AREAS) SHALL HAVE A 6" MINIMUM TOPSOIL LAYER. TOPSOIL SHALL BE LAID IN 3" LIFTS. IN AREAS WHERE CONSTRUCTION GRADING HAS NOT OCCURRED AND THE VIRGIN GRADES YET EXIST, THE TOPSOIL LAYER MAY NOT BE REQUIRED BASED ON THE DECISION OF THE LANDSCAPE ARCHITECT.
20. TOPSOIL SHALL BE FERTILE NATURAL TOPSOIL, TYPICAL OF THE LOCALITY, OBTAINED FROM WELL DRAINED AREAS. STOCKPILED TOPSOIL MAY BE USED. IT SHALL BE WITHOUT ADMIXTURE OF SUBSOIL OR SLAG AND SHALL BE FREE OF STONES, LUMPS, STICKS, PLANTS OR THEIR ROOTS, TOXIC SUBSTANCES OR OTHER EXTRANEOUS MATTER THAT MAY BE HARMFUL TO PLANT GROWTH OR WOULD INTERFERE WITH FUTURE MAINTENANCE. TOPSOIL PH RANGE SHALL BE 5.5 TO 7.0.
21. THERE SHALL BE NO ADDITIONS, DELETIONS OR SUBSTITUTION OF PLANT MATERIAL SPECIES WITHOUT THE WRITTEN APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT. ANY SUBSTITUTION THAT HAS NOT BEEN APPROVED SHALL BE REMOVED AND REPLACED WITH THE CORRECT PLANT AT LANDSCAPE CONTRACTOR'S EXPENSE.
22. IN THE CONDITION WHERE THE PLANT MATERIAL HAS BEEN SUPPLIED BY THE OWNER THROUGH A PLANT PROCUREMENT PROGRAM WITH A MYKE PRO 2-YEAR WARRANTY, THE LANDSCAPE CONTRACTOR'S WARRANTY OF PLANT MATERIAL SHALL BEGIN FROM THE TIME OF HANDLING PLANT MATERIAL AT TIME OF DELIVERY THROUGH INSTALLATION AND END AFTER SUBSTANTIAL COMPLETION AND FINAL PUNCH-LIST APPROVAL BY LANDSCAPE ARCHITECT.
23. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR THE COLLECTION, REMOVAL, AND PROPER DISPOSAL OF ANY AND ALL DEBRIS GENERATED DURING THE INSTALLATION OF THE LANDSCAPE CONSTRUCTION.
24. ALL LANDSCAPE AREAS SHALL BE WATERED BY AN AUTOMATIC IRRIGATION SYSTEM. IRRIGATION SYSTEM SHALL UTILIZE A RAIN SENSOR. DRIP IRRIGATION SHALL BE UTILIZED AT LANDSCAPE BEDS.
25. COORDINATION WITH THE OWNER AND GENERAL CONTRACTOR FOR SLEEVE LOCATIONS AND TIMING OF SLEEVE INSTALLATION. ALL SLEEVING REQUIRED UNDER HARDSCAPE SURFACES FOR THE IRRIGATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
26. COORDINATE LANDSCAPE PLANTING WITH IRRIGATION CONTRACTOR. THE TREE PLANTINGS SHALL BE IN PLACE BEFORE IRRIGATION LINE ROUTING BEGINS. WATER TREES BY HAND UNTIL IRRIGATION SYSTEM IS FULLY FUNCTIONAL. SHRUBS AND PERENNIALS SHALL NOT BE INSTALLED UNTIL THE IRRIGATION SYSTEM IS FULLY FUNCTIONAL. THE IRRIGATION SYSTEM SHALL BE COMPLETE AND FULLY FUNCTIONAL IN ALL LAWN AREAS BEFORE SOD IS PLACED.

DECIDUOUS TREE PLANTING NOTES:

- 1) DO NOT HEAVILY PRUNE THE TREE AT PRUNING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS & UNBROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGGS & LATERAL BRANCHES MAY BE PRUNED IF REQUIRED. DO NOT REMOVE THE TERMINAL BUDS OF THE BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

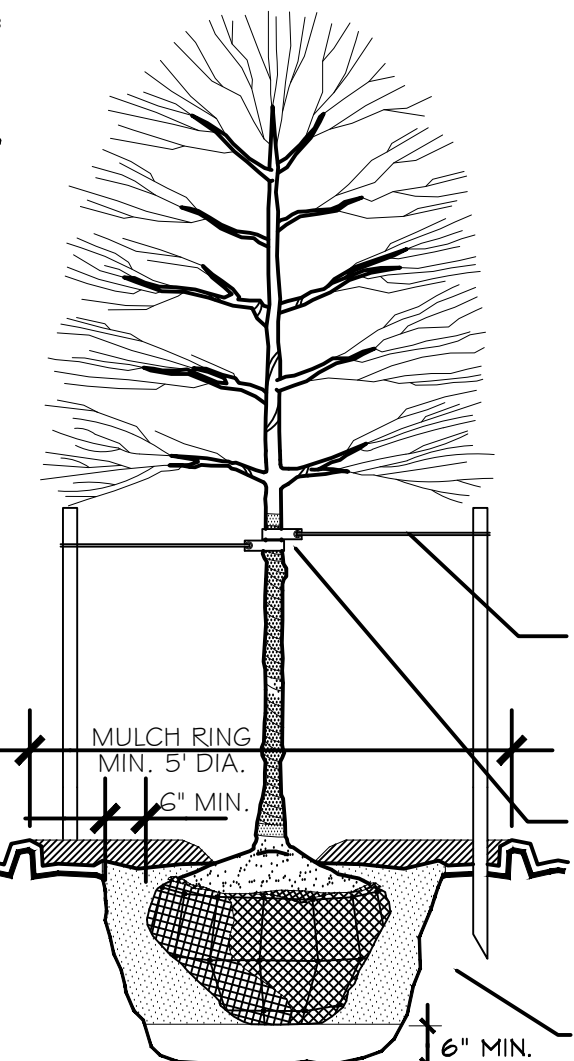
- 2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

- 3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS.

- 4) PLANTING DEPTH OF ROOTBALL SHALL BE EQUAL TO ITS ORIGINAL PLANTING DEPTH AT NURSERY. PLACE ROOTBALL ON UNEXCAVATED OR TAMPED SOIL. SCARIFY HOLE & BACKFILL WITH SOIL EXCAVATED FROM HOLE & SPECIFIED AMENDMENTS.

- 5) SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE.

- 6) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF THE ROOTBALL.



- 7) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SOIL.

- 8) SOAK BACKFILL AFTER PLANTING.

- 9) APPLY 4" TH. MULCH LAYER AROUND TREE. DO NOT PLACE MULCH IN DIRECT CONTACT W/ CROWN OF TREE TRUNK.

- 10) WHEN NECESSARY APPLY TREE WRAP TO TRUNK FROM BOTTOM UPWARD, SECURE W/ TAPE.

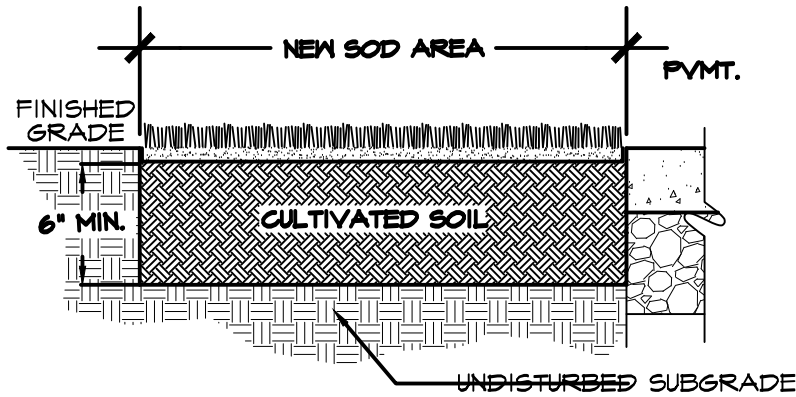
- STAKING REQUIREMENTS:  
1) STAKING SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

- 2) GUY WIRES SHALL BE GALV. 12-GAUGE DOUBLE STRAND WIRE 3'-6" ABOVE GRADE. TIGHTEN GUY WIRE ONLY ENOUGH TO KEEP FROM SLIPPING. DO NOT OVERTIGHTEN. ALLOW FOR SOME TRUNK MOVEMENT.

- 3) USE 1-1/2" WIDE WEBBINGS W/ METAL GROMMETS  
4) TREE STAKES SHALL BE 2" DIA. x 8'-0" LODGEPOLE PINE TREE STAKES. KEEP STAKES PLUMB AND EVENLY SPACED.

1 DECIDUOUS TREE PLANTING

SCALE: N.T.S.



SOD INSTALLATION NOTES:

- 1) FINISHED GRADES SHALL BE ACCURATE.  
2) CULTIVATE ENTIRE AREA TO A MINIMUM 6" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED WITHIN THE DRIPLINE OF EXISTING TREES. HAND RAKE SMOOTH.  
3) ADD ADDITIVES (AS PER SOIL TEST RECOMMENDATIONS) AND TILL INTO SOIL.  
4) LAY AND ROLL SOD. WATER THOROUGHLY.

3 SOD INSTALLATION

SCALE: N.T.S.

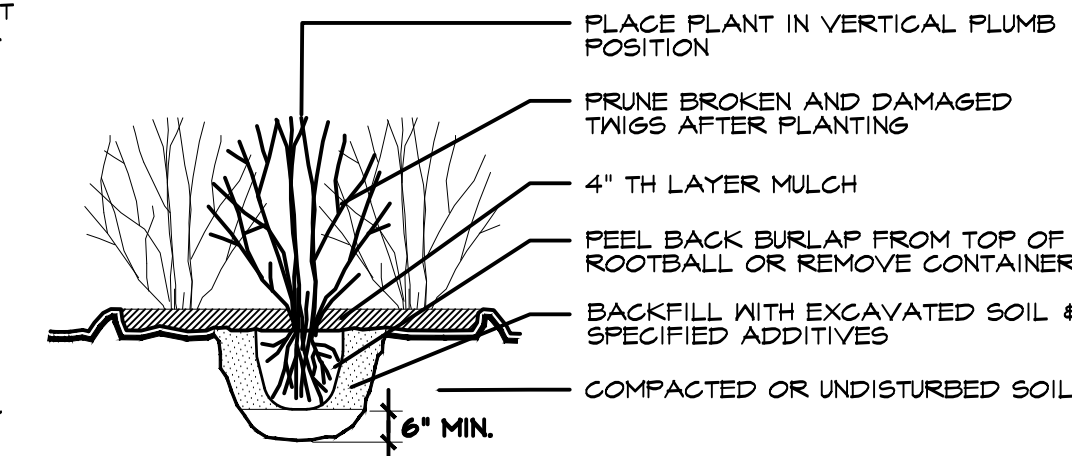
SHRUB PLANTING NOTES:

- 1) SET SHRUB AT SAME DEPTH AT WHICH IT GREW IN THE FIELD OR CONTAINER.

- 2) PRUNE THIN & SHAPE SHRUBS IN ACCORDANCE W/ STANDARD HORTICULTURAL PRACTICE.

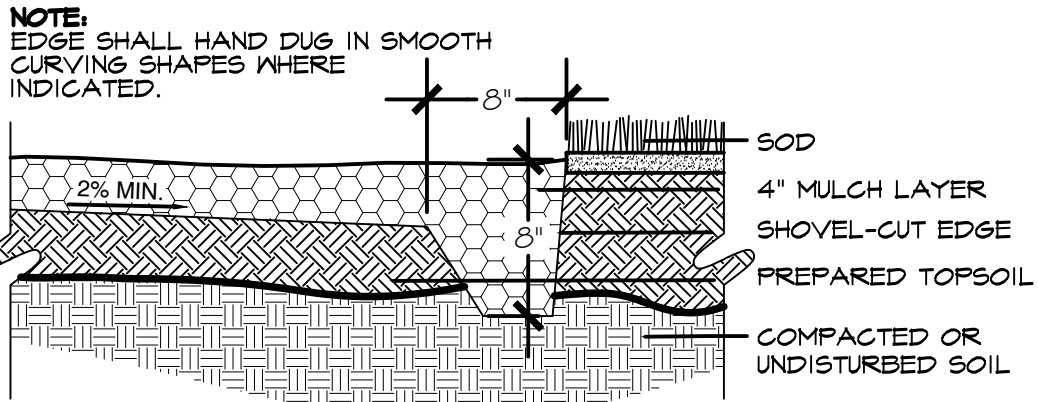
- 3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS.

- 4) WHEN BACKFILL IS 2/3 COMPLETE, WATER THOROUGHLY UNTIL NO MORE IS ABSORBED.



4 SHRUB PLANTING

SCALE: N.T.S.



6 SHOVEL-CUT EDGING

SCALE: N.T.S.

EVERGREEN TREE PLANTING NOTES:

- 1) DO NOT HEAVILY PRUNE THE TREE AT PRUNING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS & UNBROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGGS & LATERAL BRANCHES MAY BE PRUNED IF REQUIRED. DO NOT REMOVE THE TERMINAL BUDS OF THE BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

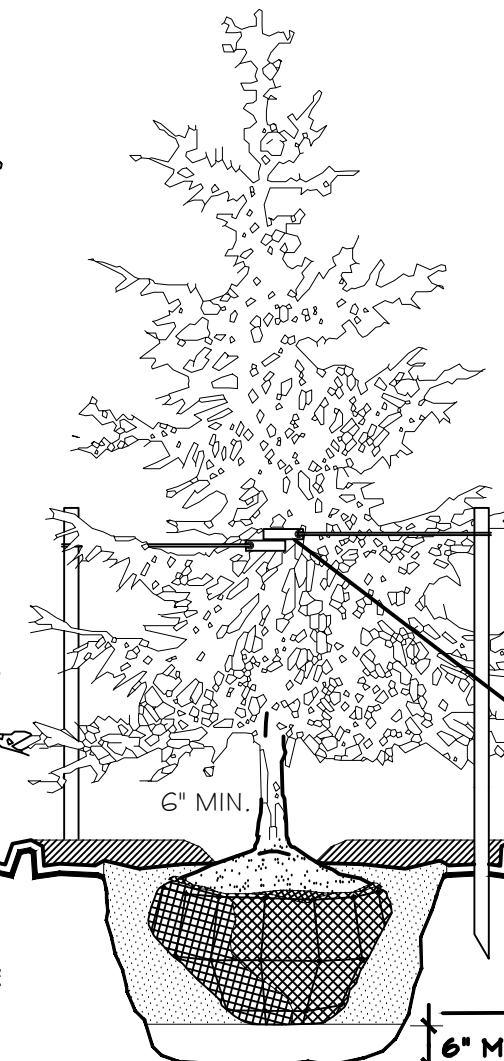
- 2) MARK THE NORTH SIDE OF THE TREE IN THE NURSERY AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

- 3) BALL OF PLANT TO BE KEPT MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING. ADD ROOT STIMULATOR TO SURFACE IMMEDIATELY AFTER PLANTING AS PER MANUFACTURER'S RECOMMENDATIONS.

- 4) PLANTING DEPTH OF ROOTBALL SHALL BE EQUAL TO ITS ORIGINAL PLANTING DEPTH AT NURSERY. PLACE ROOTBALL ON UNEXCAVATED OR TAMPED SOIL. TYP. SCARIFY HOLE & BACKFILL WITH SOIL EXCAVATED FROM HOLE & SPECIFIED AMENDMENTS.

- 5) SET TOP OF ROOT BALL 1-2 INCHES HIGHER THAN SURROUNDING GRADE.

- 6) REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM THE UPPER 1/3 OF THE ROOTBALL.



- 7) EACH TREE MUST BE PLANTED SUCH THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL W/ SOIL.

- 8) SOAK BACKFILL AFTER PLANTING.

- 9) APPLY 4" TH. MULCH LAYER AROUND TREE. DO NOT PLACE MULCH IN DIRECT CONTACT W/ CROWN OF TREE TRUNK.

- STAKING REQUIREMENTS:  
1) STAKING SHALL BE REQUIRED UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

- 2) GUY WIRES SHALL BE GALV. 12-GAUGE DOUBLE STRAND WIRE 3'-6" ABOVE GRADE. TIGHTEN GUY WIRE ONLY ENOUGH TO KEEP FROM SLIPPING. DO NOT OVERTIGHTEN. ALLOW FOR SOME TRUNK MOVEMENT.

- 3) USE 1-1/2" WIDE WEBBINGS W/ METAL GROMMETS  
4) TREE STAKES SHALL BE 2" DIA. x 8'-0" LODGEPOLE PINE TREE STAKES. KEEP STAKES PLUMB AND EVENLY SPACED.

2 EVERGREEN TREE PLANTING

SCALE: N.T.S.

PERENNIAL PLANTING

- 1) BREAK UP EXISTING TOPSOIL TO A DEPTH OF 24"

- 2) PROVIDE NEW TOPSOIL TO A DEPTH OF 18"

- 3) THOROUGHLY MIX PEAT IN TOP 3'-4" OF SOIL

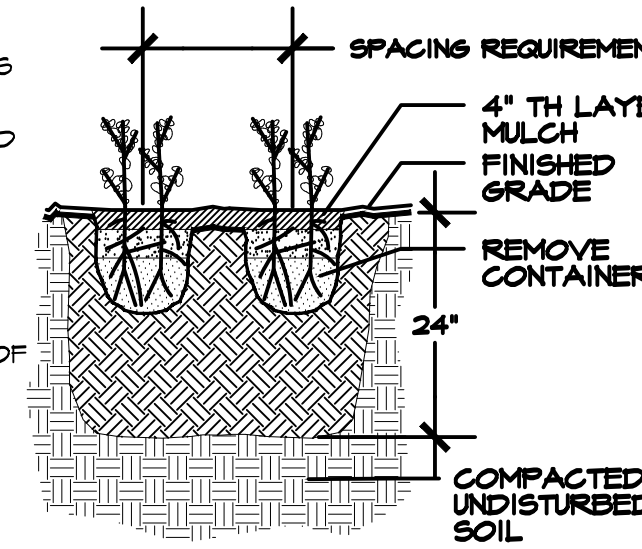
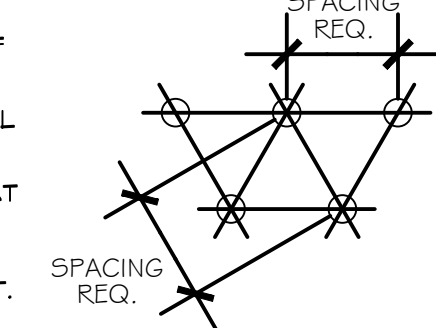
- 4) DO NOT ALLOW PERENNIALS TO DRY OUT. KEEP MOIST AND PROTECTED FROM DAMAGE PRIOR TO PLANTING.

- 5) PLACE PLANT IN VERTICAL PLUMB POSITION

- 6) DIG HOLE AS DEEP AS INITIAL ROOT SYSTEM  
7) BACKFILL W/ SOIL AND PACK FIRMLY BY HAND. ADD ROOT STIMULATOR PER MANUFACTURER'S RECOMMENDATIONS. WATER THOROUGHLY TO FINISH PACKING SOIL AROUND ROOTS.

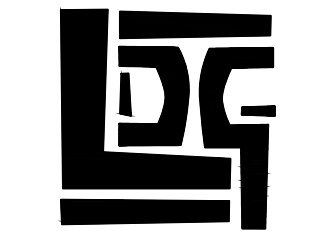
- 8) APPLY 4" TH LAYER OF MULCH ON PERENNIAL PLANT BED. DO NOT COVER PLANTS

SPACING DIAGRAM



5 PERENNIAL PLANTING

SCALE: N.T.S.



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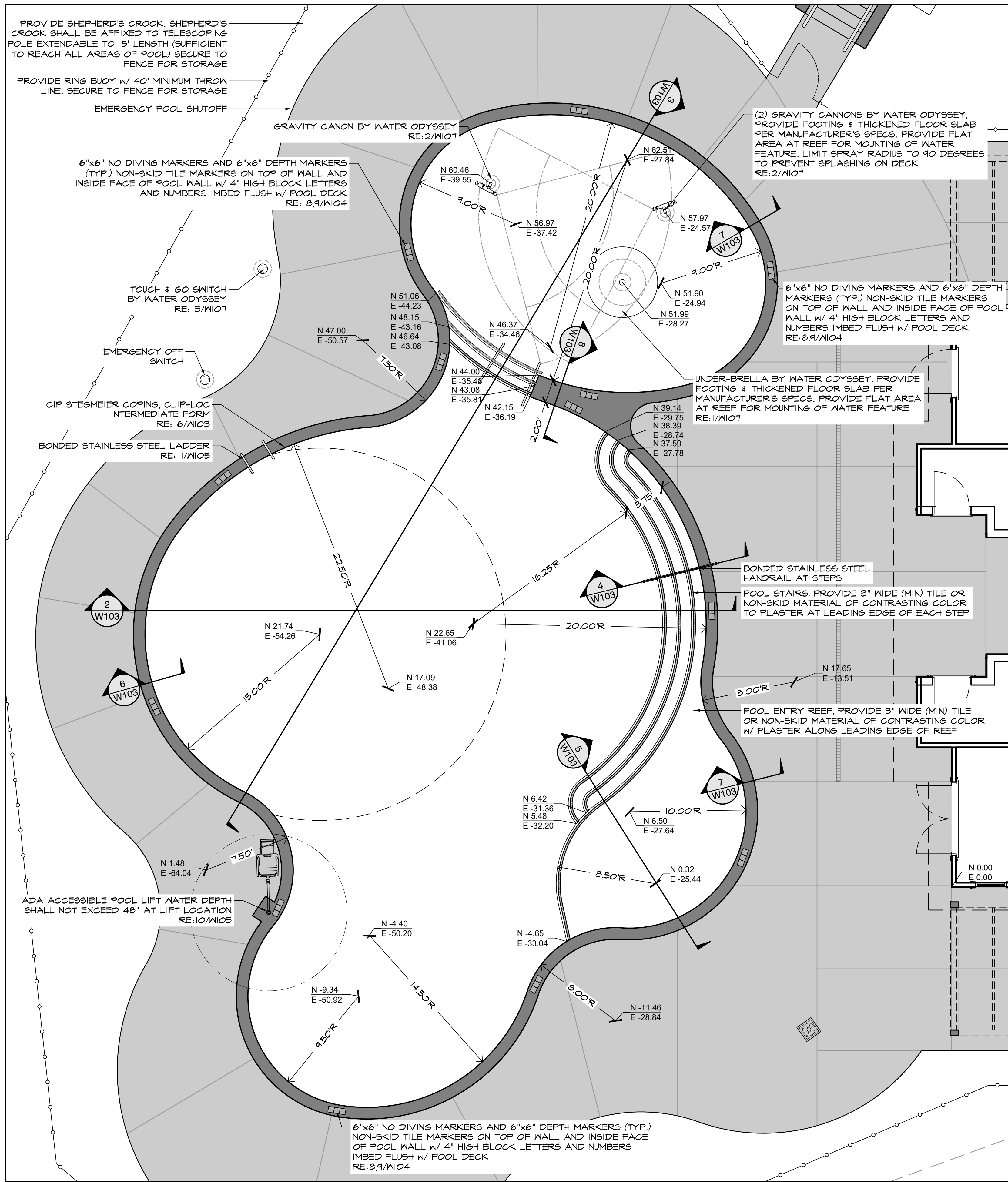
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SUMMIT VIEW FARMS  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

REVISION:

FEBRUARY 23, 2021  
LANDSCAPE NOTES  
& DETAILS

L302



**POOL LAYOUT PLAN**  
**SCALE: 1"=5'-0"**

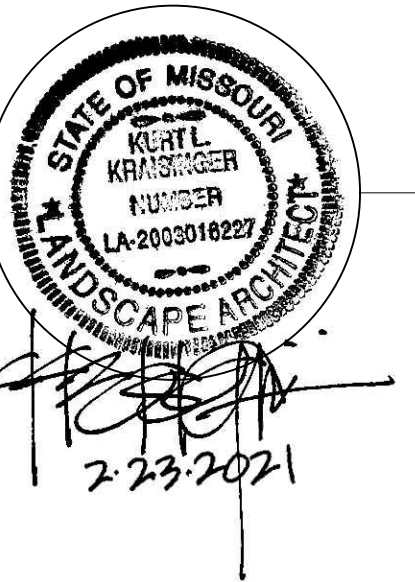
**PLAN NOTES**

1. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED

**POOL GUIDELINES**

1. SUPERVISE YOUR CHILDREN - YOU ALONE ARE RESPONSIBLE FOR THEIR SAFETY. DO OR RLY ON A LIFEGUARD OR SAFETY DEVICE
2. TEACH YOUR CHILDREN TO SWIM - IT IS NEVER TOO EARLY
3. LEARN TO SWIM YOURSELF. YOU CAN NOT SAVE A CHILD IF YOU CAN NOT SWIM
4. LEARN CPR. THIS IS A BASIC LIFE SKILL EVERYONE SHOULD KNOW
5. INFLATABLE 'FLOATIES' ARE NOT A REPLACEMENT FOR A LIFE VEST
6. AVOID ALCOHOL AND GUM. BAD DECISIONS AND CHOKING ARE COMMON CAUSES OF DROWNINGS
7. KEEP THE POOL AREA FREE OF TOYS WHEN THE POOL IS NOT IN USE
8. MAINTAIN THE WATER CLARITY
9. MAINTAIN THE DRAINS AND REPLACE THEM IF THEY ARE NOT OF AN ANTI-ENTRAPMENT DESIGN. DO NOT ALLOW SWIMMING TO PLAY AROUND THE DRAIN. KEEP LONG HAIR AWAY FROM THE DRAIN COVERS
10. MAINTAIN THE SAFETY BARRIERS (FENCES, COVERS, DOOR ALARMS)
11. PRACTICE SAFE DIVING TECHNIQUES - HANDS POINTED OVER THE HEAD, NEVER TO THE SIDES. NEVER DIVE INTO SHALLOW WATER
12. NEVER SWIM ALONE
13. KEEP SAFETY DEVICES HANDY

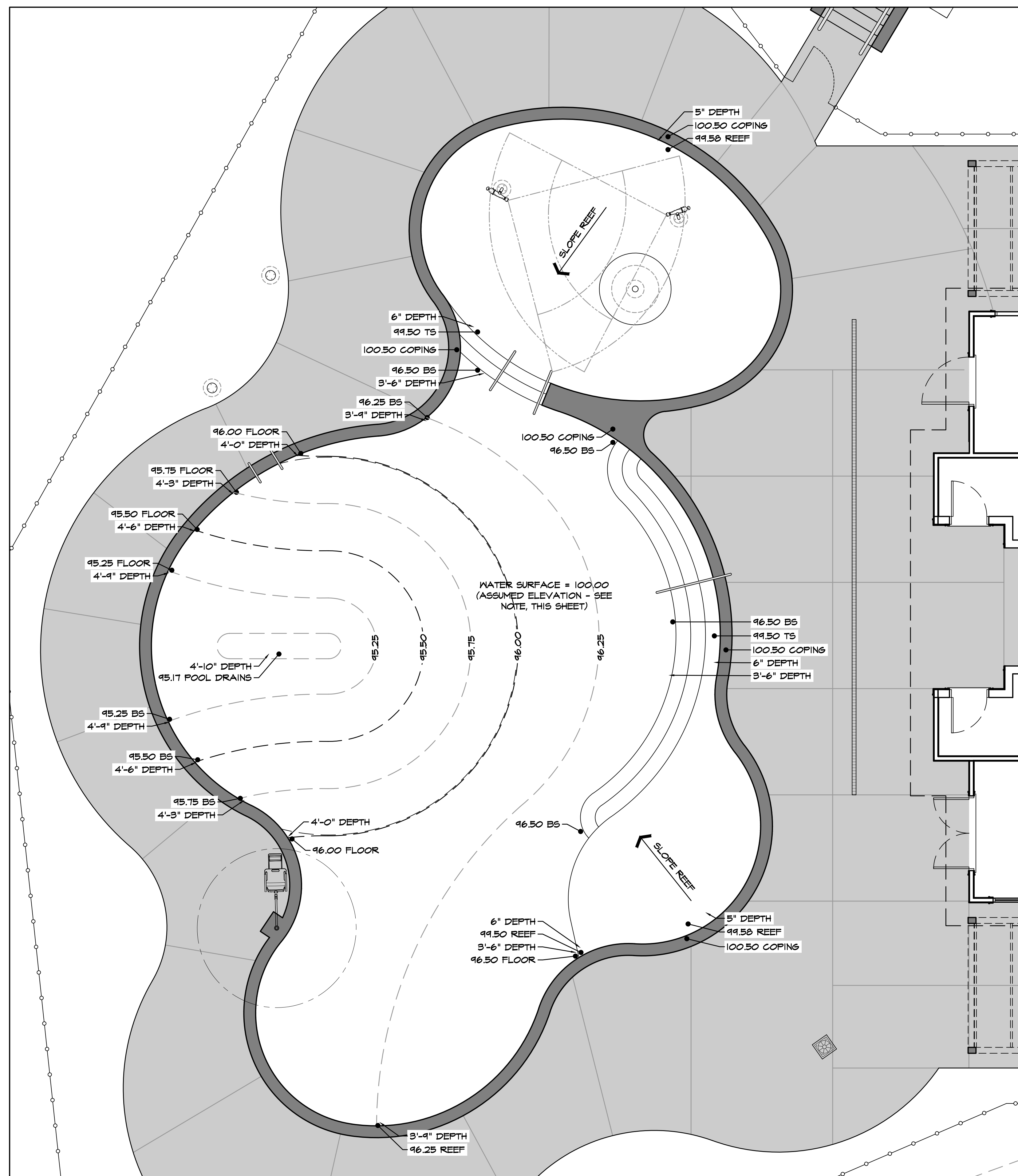
**NOTE: THIS IS NOT A DIVING POOL**



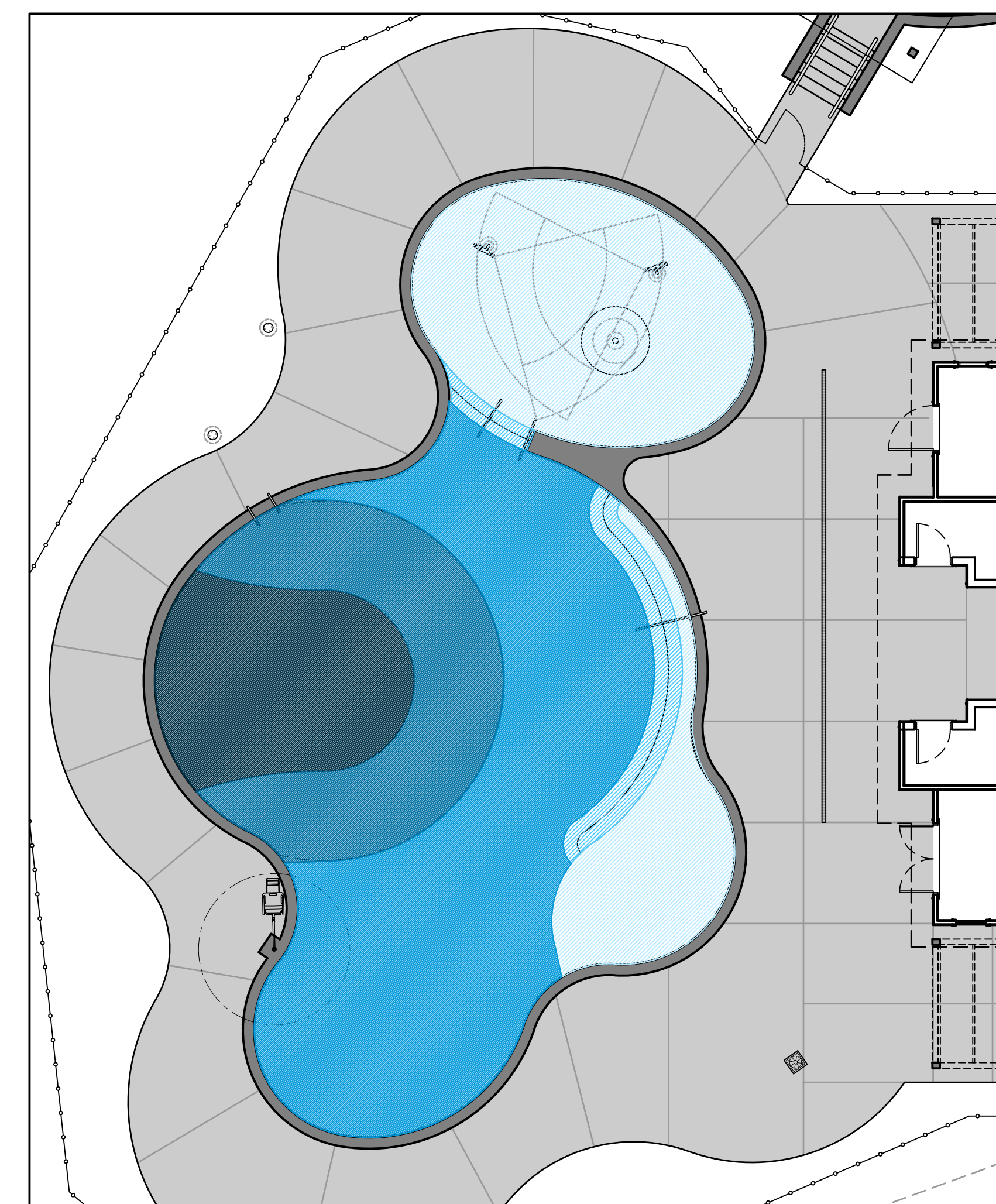
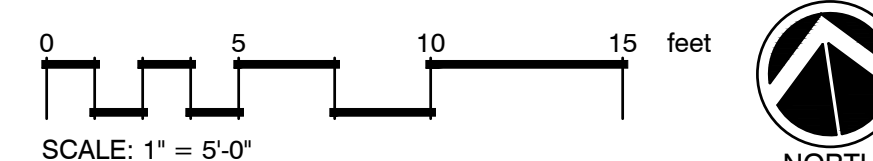
**SUMMIT VIEW FARMS**  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

REVISION:
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POOL LAYOUT PLAN
W001





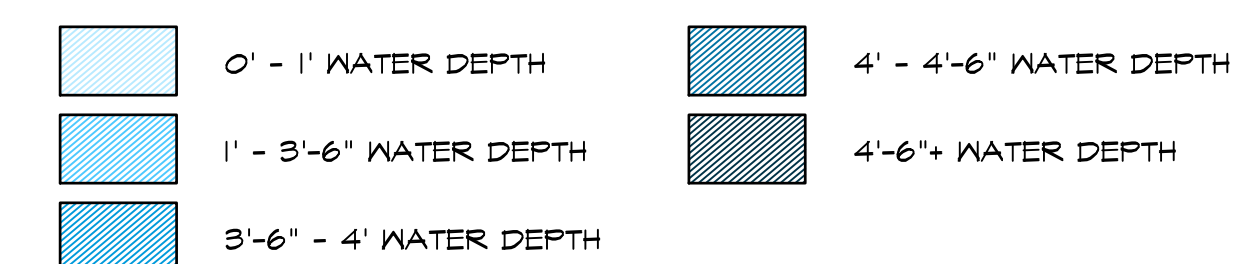
**POOL FLOOR CONTOURING PLAN**  
SCALE: 1"=5'-0"



### ILLUSTRATIVE WATER DEPTH PLAN

SCALE: 1"=10'-0"

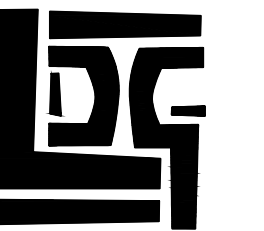
## POOL WATER DEPTH



## PLAN NOTES

1. ANY METAL WITHIN 5' OF WATERS EDGE SHALL BE BONDED
2. ALL ELEVATIONS SHOWN ON THIS SHEET ARE ASSUMED, BASED ON AN ASSUMED WATER ELEVATION OF 100.00. SPOT ELEVATIONS DO NOT CORRELATE TO THE SURFACE OR COPING ELEVATIONS. SPOT AND COPING ELEVATIONS ARE INDICATED ON GRADING PLAN. CONTRACTOR SHALL CORRELATE ASSUMED POOL FLOOR/WATER/COPING ELEVATIONS ON THIS PLAN TO TRUE POOL DECK AND WATER ELEVATIONS SHOWN ON THE PLAN IN ORDER TO ACHIEVE THE POOL WATER DEPTHS SHOWN ON THIS PLAN.

**NOTE: THIS IS NOT A DIVING POOL**



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2.23.2021

# SUMMIT VIEW FARMS

# POOL CONSTRUCTION DOCUMENTS

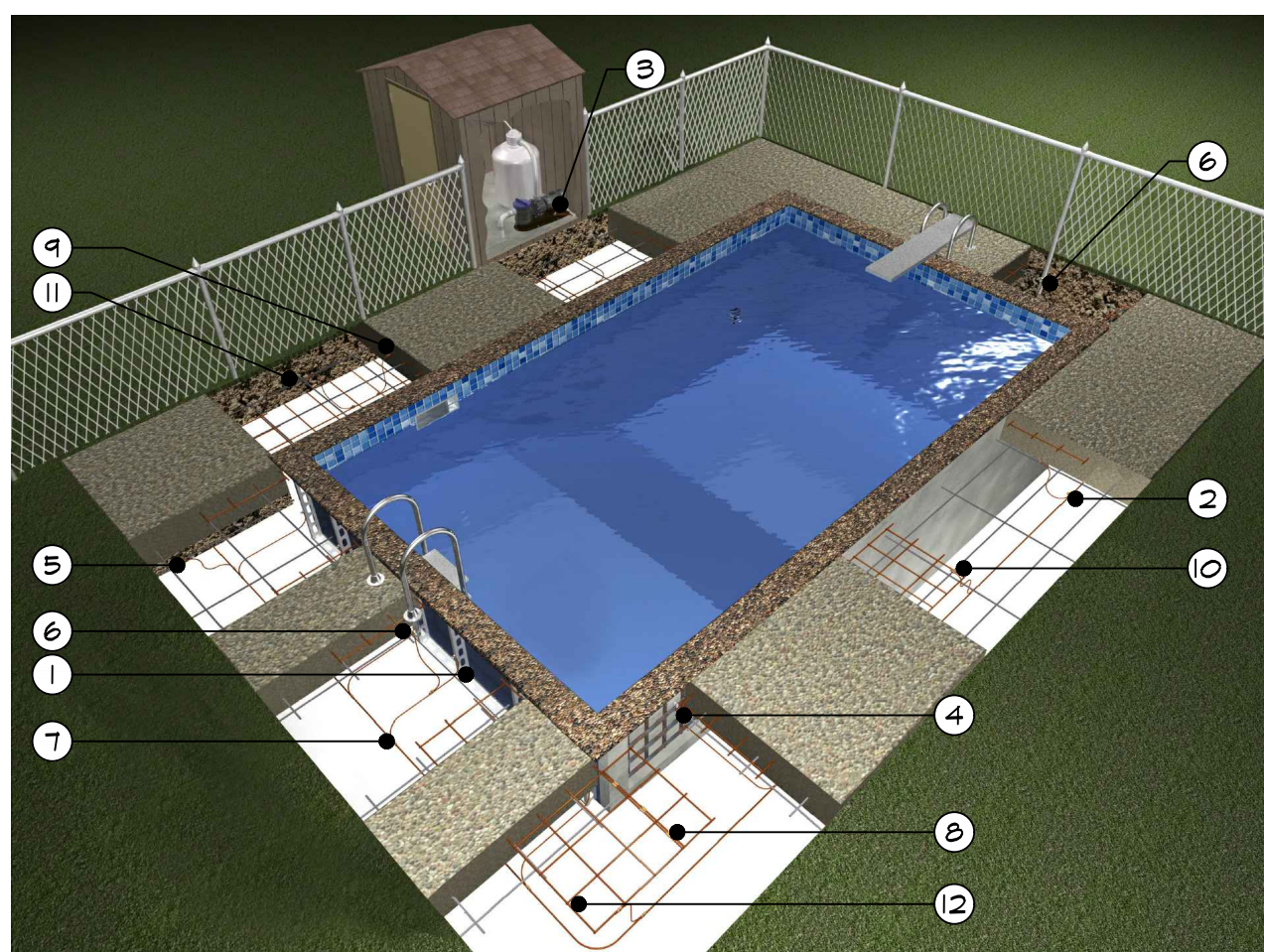
REVISION:

FEBRUARY 23, 2021

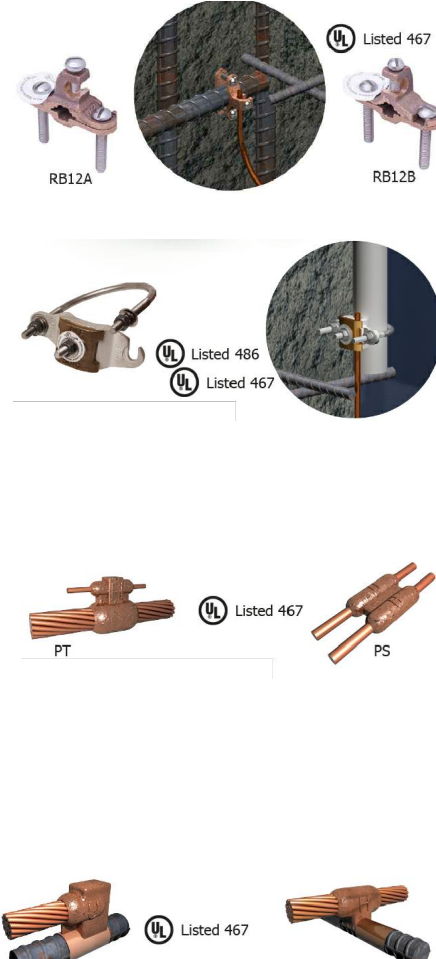
## POOL FLOOR CONTOURING

W002





1 ONE-HOLE TINNED COPPER LAY-IN LUG		
PART #	CONDUCTOR RANGE (AWG)	BOLT HOLE SIZE
TCL14H4DB	4 - 14	#10
• SUITABLE FOR DIRECT BURIAL.		
2 COPPER SPLIT BOLT		
PART #	RANGE FOR EQUAL MAIN (AWG)	MINIMUM TAP
GESB6	4 Sol. - 6 Sol.	16 Sol.
• SUITABLE FOR DIRECT BURIAL.		
3 COPPER OFFSET TERMINAL LUG		
PART #	CONDUCTOR RANGE (AWG)	BOLT HOLE SIZE
GEOL2	14 Str. - 6 Str.	#8
• SUITABLE FOR DIRECT BURIAL.		



4(5) REBAR & WATER PIPE GROUND CLAMPS			
PART #	PIPE & REBAR RANGE	CONDUCTOR RANGE (AWG)	
RB12A	8" - 1"	10 Sol. - 2 Str.	
RB12B	8" - 1"	10 Sol. - 2 Str.	
• SUITABLE FOR DIRECT BURIAL.			

6 CPG PIPE CLAMPS			
PART #	MATERIAL	NOM. PIPE SIZE RANGE	PIPE OUTSIDE DIAMETER
CPG1.5/2	TINNED BRONZE	1.5" - 2"	1" - 2.4"
CPG2.5/3	TINNED BRONZE	2.5" - 3"	2.25" - 3.5"
• SUITABLE FOR DIRECT BURIAL.			
• CONDUCTOR RANGE #6 - 250 MCM.			
• OTHER SIZES AVAILABLE.			

7(8) CABLE TO CABLE ULTRAVELD EXOTHERMIC CONNECTION MOLDS			
PART #	WELD METAL		REQUIRED HANDLE
	ULTRASHOT	NUT/TUBE	
PT8885B	US25	NUT/TUBE25	MHI
PS8885L	US25	NUT/TUBE25	M48 (INCLUDED)
PS8885L	US25	NUT/TUBE25	M48 (INCLUDED)

9(10) CABLE TO REBAR ULTRAVELD EXOTHERMIC CONNECTION MOLDS				
PART #	WELD METAL		REQUIRED HANDLE	PACKING MATL #
	ULTRASHOT	NUT/TUBE		
RF8885B	US25	NUT/TUBE25	MHI	WRPSLV
RF4L85A	US25	NUT/TUBE25	INCLUDED	CERPMI
RF8885B	US65	NUT/TUBE65	MHI	WRPSLV
RF4885B	US65	NUT/TUBE65	MHI	WRPSLV
RF8885B	US65	NUT/TUBE65	MHI	WRPSLV

11 REBAR GROUNDING ASSEMBLY			
PART #	REBAR SIZE	CONDUCTOR TYPE (AWG)	CONDUCTOR LENGTH (FT)
RB36A85X5	3	8 Sol.	5
• PREFABRICATED REBAR GROUNDING ASSEMBLY WITH EXOTHERMICALLY WELDED CONNECTION.			
• STANDARD 24" LONG REBAR.			
• CAN BE WIRE TIED OR WELDED CASE PRIOR TO CONCRETE POUR.			

12 UL LISTED PREFABRICATED #8 SOLID COPPER GROUND MESH				
PART #	WIDTH (FT)	LENGTH (FT)	CONDUCTOR SPACING (IN)	APPROX. WT. (LBS)
6MB80012	8	50	12	82
6MB75012	8	75	12	42
6MB100012	8	100	12	51
• OTHER MESH SIZES AND WIRE GAUGES AVAILABLE.				

## POOL GROUNDING & BONDING TECHNICAL NOTES

### TECHNICAL NOTES:

\*680.26 EQUIPOTENTIAL BONDING \* (SUMMARIZED)

(A) PERFORMANCE. THE EQUIPOTENTIAL BONDING REQUIRED BY THIS SECTION SHALL BE INSTALLED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA.

(B) BONDED PARTS. THE PARTS SPECIFIED IN 680.26(B)(1) THROUGH (B)(7) SHALL BE BONDED TOGETHER USING SOLID COPPER CONDUCTORS, INSULATED COVERED, OR BARE, NOT SMALLER THAN 8 AWG OR WITH RIGID METAL CONDUIT OF BRASS OR OTHER IDENTIFIED CORROSION-RESISTANT METAL. CONNECTIONS TO BONDED PARTS SHALL BE MADE IN ACCORDANCE WITH 250.8\*\* AN 8 AWG OR LARGER SOLID COPPER BONDING CONDUCTOR PROVIDED TO REDUCE VOLTAGE GRADIENTS IN THE POOL AREA SHALL NOT BE REQUIRED OR ATTACHED TO REMOTE PANELBOARDS, SERVICE EQUIPMENT, OR ELECTRODES

(1) CONDUCTIVE POOL SHELLS. BONDING TO CONDUCTIVE POOL SHELLS SHALL BE PROVIDED AS SPECIFIED IN 680.26(B)(1)(a) OR (B)(1)(b). POURED CONCRETE, PNEUMATICALLY APPLIED OR SPRAYED CONCRETE, AND CONCRETE BLOCK WITH PAINTED PLASTERED COATINGS SHALL ALL BE CONSIDERED CONDUCTIVE MATERIALS DUE TO WATER PERMEABILITY AND POROSITY. VINYL LINERS AND FIBERGLASS COMPOSITE SHELLS SHALL BE CONSIDERED TO BE NONCONDUCTIVE MATERIALS.

(2) CONFORM TO THE CONTOUR OF THE POOL.

(3) BE ARRANGE DIN A 300mm (12in) BY 300mm (12in) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH A TOLERANCE OF 100mm (4in)

(4) BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 150mm (6in) FROM THE OUTER CONTOUR OF THE POOL SHELL.

(5) PERIMETER SURFACES. THE PERIMETER SURFACE SHALL EXTEND FOR 1m (3ft) HORIZONTALLY BEYOND THE INSIDE WALLS OF THE POOL AND SHALL INCLUDE UNPAVED SURFACES AS WELL AS PAVED CONCRETE SURFACES AND OTHER TYPES OF PAVING. PERIMETER SURFACES LESS THAN 1m (3ft) SEPARATED BY A PERMANENT WALL OR BUILDING 1.5m (5ft) IN HEIGHT OR MORE SHALL REQUIRE EQUIPOTENTIAL BONDINGS ON THE POLL SIDE OF THE PERMANENT WALL OR BUILDING. BONDING TO PERIMETER SURFACES SHALL BE PROVIDED AS SPECIFIED IN 680.26(B)(2)(a) OR (2)(b) AND SHALL BE ATTACHED TO THE POOL REINFORCING STEEL OR COPPER CONDUCTOR GRID AT A MINIMUM OF FOUR (4) POINTS UNIFORMLY SPACED AROUND THE PERIMETER OF THE POOL. FOR NONCONDUCTIVE POOL SHELLS, BONDING AT FOUR POINTS SHALL NOT BE REQUIRED.

(6) STRUCTURAL REINFORCING STEEL. STRUCTURAL REINFORCING STEEL SHALL BE BONDED IN ACCORDANCE WITH 680.26(B)(1)(a).

(7) GLOBRITE LIGHTS PROVIDED AT 190 W EA = 1,330 W 9,330 TOTAL EQUIVALENT WATTS PROVIDED

(8) GLOBRITE LIGHTS PROVIDED AT 190 W EA = 1,330 W 9,330 TOTAL EQUIVALENT WATTS PROVIDED

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(37) GLOBRITE LIGHTS PROVIDED AT 190 W EA = 1,330 W 9,330 TOTAL EQUIVALENT WATTS PROVIDED

## TYPICAL POOL GROUNDING & BONDING VIGNETTE

### BONDING LOOP GENERAL NOTES

#### EQUIPMENT BONDING NOTES

1. ALL METALLIC ITEMS TO BE BONDED AT PUMP ROOM PER NEC 280.26.

2. BOND ALL ITEMS AS NOTED ON THIS POOL BONDING LOOP PLAN. TO INCLUDE LADDERS, STANCHION ANCHORS, FLOATABLE ANCHORS, RAILINGS, PUMPS, DECK JUNCTION BOXES AND ALL OTHER METALLIC WITHIN 5'-0" OF THE POOL.

3. REINFORCEMENT STEEL AROUND POOL TO BE BONDED TO AT EACH POURED SECTION OR EVERY 20 FEET (WHICHEVER IS LESS). USE ONLY LUGS LISTED AND LABELED FOR BONDING REBAR TO A COPPER CONDUCTOR. LUGS SHOULD ALSO BE RATED FOR DIRECT BURIAL. AS LUGS WILL BE ENCLOSED WITHIN CONCRETE AFTER INSTALLED.

4. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL SURFACE TO BE BONDED

5. ALL FENCE POST AND GATES WITHIN 5 FEET FROM POOL SURFACE TO BE BONDED.

6. ALL PUMP MOTORS AT THE POOL TO BE BONDED TO THE BONDING LOOP UNLESS DOUBLE INSULATED. THIS INCLUDES WATER CIRCULATING, CHEMICAL FEED AND HEATER PUMPS.

7. ALL METAL RACEWAYS, PIPES, FIXED PARTS (AWNING, DOOR FRAMES, WINDOW FRAMES), AND CABLES WITHIN 5 FEET FROM THE POOL SURFACE TO BE BONDED.

8. ALL METALLIC CANOPIES, STAND, TOWERS OR OBSERVATION STANDS WITHIN 12' ABOVE THE MAXIMUM WATER LEVEL OF THE POOL AND LOCATED IN THIS AREA TO BE BONDED. BOND EACH SUPPORT LOCATED IN POOL DECK.

9. ITEMS WITH MULTIPLE ANCHOR SOCKETS, LEGS, ETC TO BE BONDED AT EACH LOCATION IN THE POOL DECK.

10. ALL PIPING TO AND FROM THE PUBLIC BATHING PLACE, INCLUDING INLET AND OUTLET PIPES SHALL BE METALLICALLY BONDED TOGETHER AND ADEQUATELY CONNECTED TO THE SAME GROUNDING ELECTRODE USED TO GROUND THE NEUTRAL CONDUCTOR OF THE ELECTRICAL SYSTEM. METAL FENCES SHALL BE GROUND AT BOTH SIDES OF THE ENTRANCE GATE.

11. ALL ELECTRICAL DEVICES SUCH AS PORTABLE ANNOUNCING SYSTEMS, RADIOS, AND SOFT DRINK DISPENSERS THAT MIGHT BE USED AROUND THE POOL AND IMMEDIATE ENVIRONMENT SHALL BE PROHIBITED WITHIN

REACH OF BATHERS. FURTHER SPECIAL GROUNDING OF SUCH FIXTURES MUST BE PROVIDED.

12. BONDING LOOP CONDUCTOR AROUND POOL SHALL BE A SOLID COPPER CONDUCTOR AWG, NOT SMALLER THAN A #6 AWG.

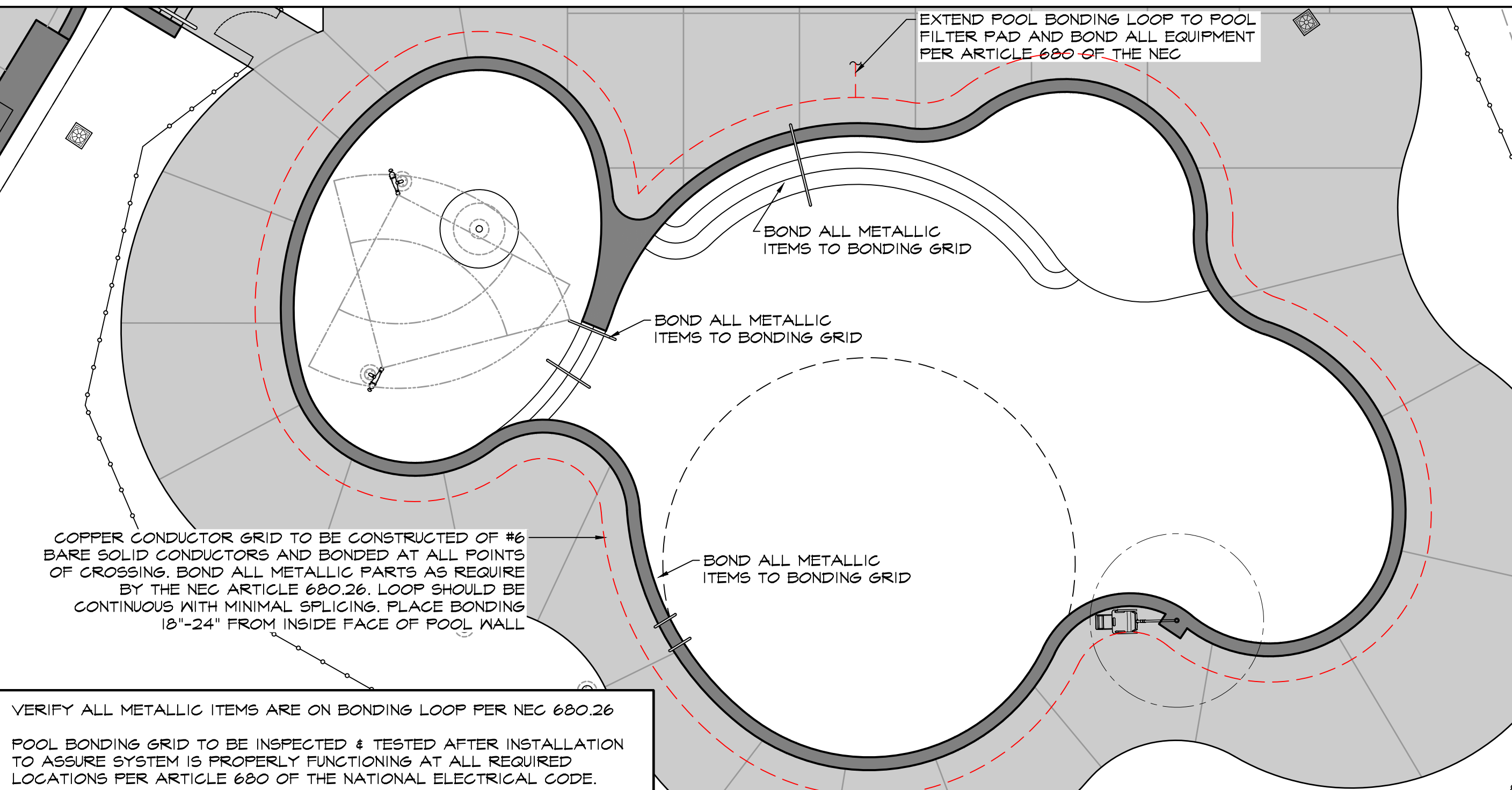
13. BONDING LOOP AROUND POOL TO BE AS CONTINUOUS AS POSSIBLE WITH A MINIMUM NUMBER OF SPLICES

14. CONNECTIONS FROM POOL BONDING LOOP CONDUCTOR TO OTHER BONDED ITEMS CAN BE MADE WITH A MINIMUM #8 AWG SOLID COPPER

15. ALL BONDING CONNECTIONS TO BE MADE WITH DEVICES LISTED AND LABELED FOR THIS ENVIRONMENT. BONDING CONNECTORS SHALL BE BRASS, COPPER, COPPER ALLOY, OR STAINLESS STEEL.

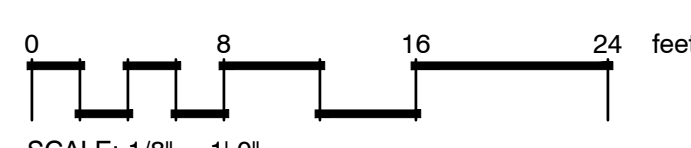
16. EXOTHERMIC WELDING IS A PERMITTED METHOD FOR BONDING THE COPPER BONDING LOOP TO THE REINFORCEMENT STEEL.

17. ALL CONNECTIONS BETWEEN BONDED ITEMS AND POOL BONDING LOOP TO BE UNDER 2 OHMS RESISTANCE.



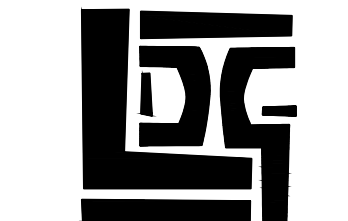
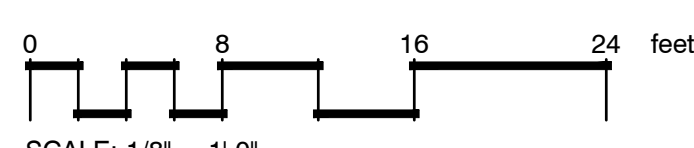
## POOL BONDING PLAN

SCALE: 1/8"=1'-0"



## POOL ELECTRICAL PLAN

SCALE: 1/8"=1'-0"



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SUMMIT VIEW FARMS  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

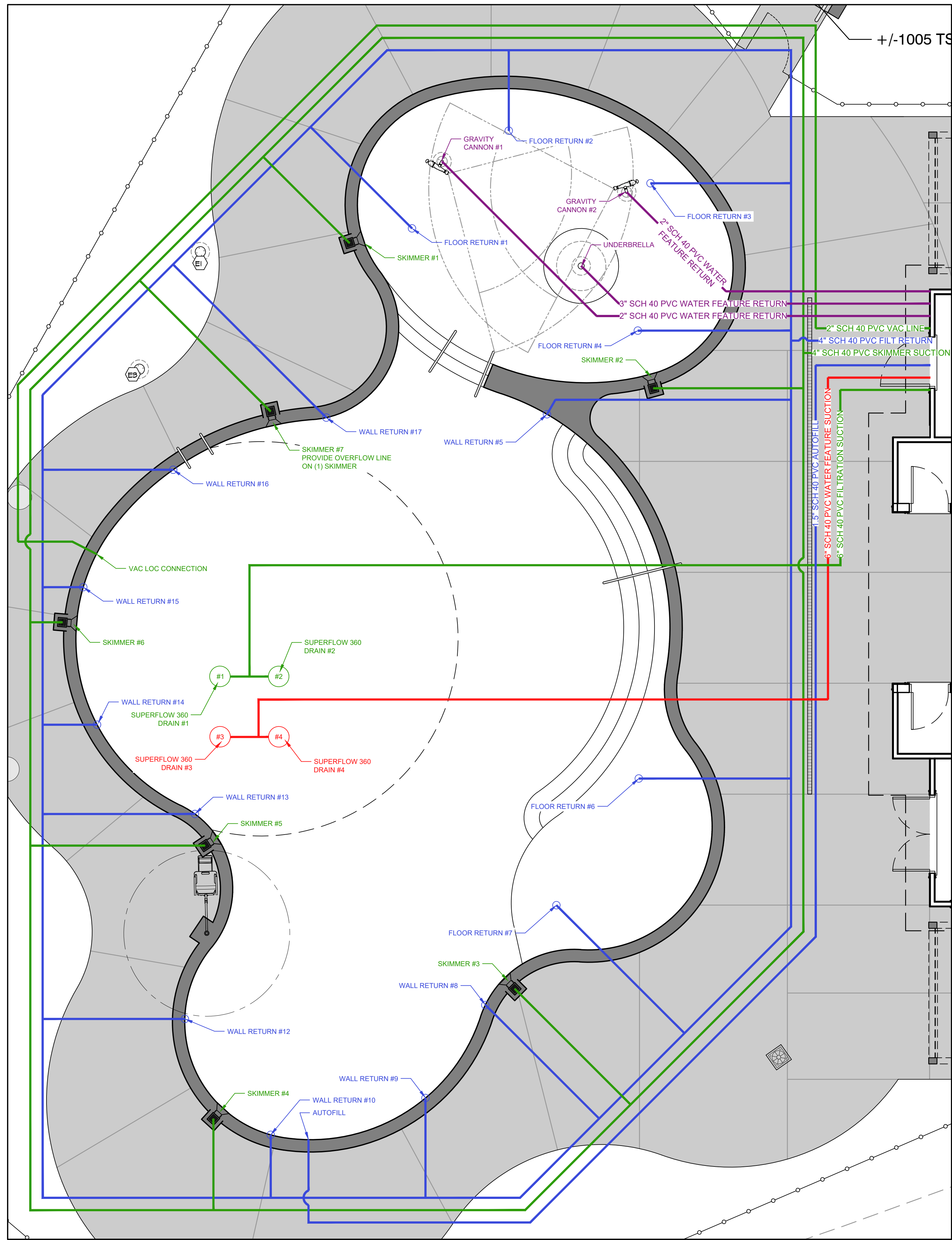
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POOL ELECTRICAL  
PLAN

W003



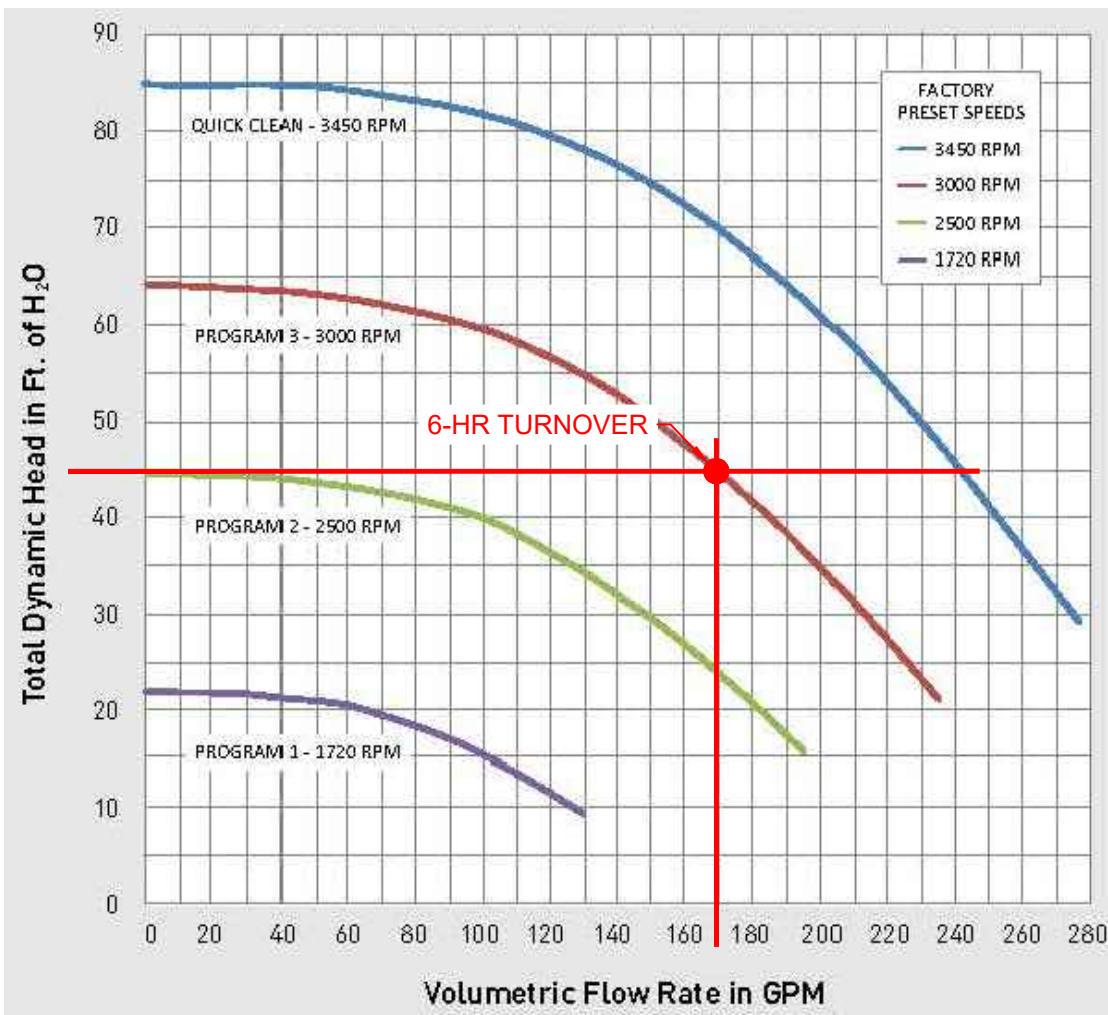


**POOL PLUMBING PLAN**  
**SCALE: 1"=5'-0"**  
**LEGEND**  
— FILTRATION SUCTION  
— FILTRATION RETURN  
— SPRAY EQUIPMENT (WATER FEATURE) SUCTION  
— SPRAY EQUIPMENT (WATER FEATURE) RETURN

**HYDRAULICS NOTES**

<b>SWIMMING POOL FILTRATION</b>	
MIN POOL DEPTH	6" (AT REEF), 3'-6" (IN POOL)
MAX POOL DEPTH	4'-10"
POOL SURFACE AREA	2,750 SF
POOL VOLUME	60,416 GAL.
POOL PERIMETER	250 LF
6-HOUR FILTRATION TURNOVER RATE	168 GPM
TOTAL DYNAMIC HEAD (TDH)	+/-45
<b>SWIMMING POOL SKIMMERS</b> 7	
<b>SWIMMING POOL RETURNS</b> 16	
SWIMMING POOL DRAINS	DUAL VGB SUPERFLO 360 PEBBLE TOP DRAINS
SWIMMING POOL FILTRATION PUMP	PENTAIR WHISPERFLO XF VS 5-HP PUMP
SWIMMING POOL FILTER	DUAL PENTAIR TR-140C SAND FILTERS
EFFECTIVE FILTRATION AREA	14.12 SF
FILTRATION RATE	11.90 GPM/SF
SWIMMING POOL HEATER	PENTAIR ET1400 NATURAL GAS HEATER
CHEMICAL CONTROLLER	PENTAIR INTELLICHEM WATER CHEMISTRY CONTROLLER
POOL LIGHTING REQUIRED	½ WATT/SF = 1,375 WATTS REQUIRED
POOL LIGHTING PROVIDED	SEE SHEET W003

<b>WATER FEATURE PLUMBING</b>	
UNDER-BRELLA DESIGN FLOW RATE	+/-150 GPM
GRAVITY CANNON DESIGN FLOW RATE	20 GPM EA. (40 GPM TOTAL)
TOTAL WATER FEATURE FLOW RATE	+/-190 GPM
WATER FEATURE PUMP	PENTAIR INTELLIFLO XF PUMP

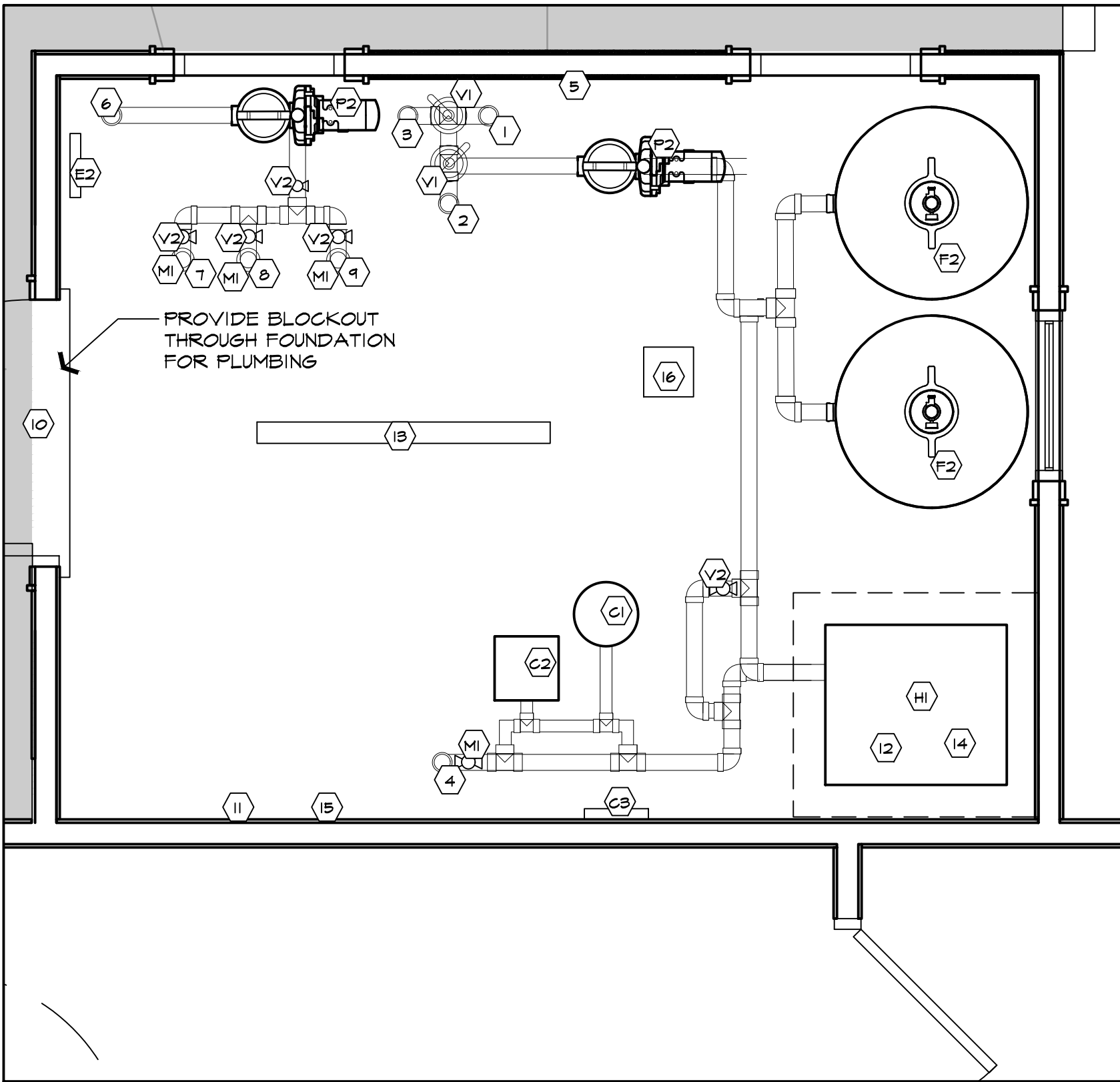


**POOL EQUIPMENT ROOM PROVISIONS**

- VENTING FOR HEATER, (1) 4" PVC PIPE RUNNING DIRECTLY FROM THE ROOF TO THE HEATER FOR COMBUSTION, AND A SEPARATE 4" PVC LINE FROM THE HEATER BACK TO THE ROOF FOR VENTILATION. THESE MAY RUN FOR A DISTANCE OF UP TO 100' (SUBTRACTING 10 LF FOR EVERY 90 DEGREE BEND IN THE PIPE) IF THE DISTANCE FROM THE HEATER TO THE ROOF EXCEEDS THIS, THEN CAN SWITCH TO A 6" PVC PIPE FOR A DISTANCE OF UP TO 300'
- 400,000 BTU NATURAL GAS FOR HEATERS
- 1.5" FRESH WATER LINE (WITH BACKFLOW PREVENTER) FOR POOL AUTOFILL (RE: MEP)
- DRAIN IN PUMP ROOM FOR SPILLED WATER
- POOL BACKWASH FLOOR DRAIN - SIZED FOR 240 GPM GRAVITY FLOW RATE. BACKWASH SHALL ENTER PIPE VIA AIRGAP BETWEEN THE BACKWASH LINE AND DRAIN. DRAIN CONTINUATION BY MEP.
- 200-AMP ELECTRICAL PANEL
- POOL EQUIPMENT AND LINES TO BE LABELED W/ LABELING MACHINE LABELS AND NOT HAND WRITTEN ON PLUMBING OR EQUIPMENT, PROVIDE A LAMINATED WATERPROOF AS-BUILT DIAGRAM OF EQUIPMENT ROOM LAYOUT AT SERVICE CONTROL PANEL W/ 3D BINDER OF ALL EQUIPMENT OUT SHEETS
- PROVIDE MINIMUM 48" WIDE LOUVERED DOOR TO EQUIPMENT ROOM
- PROVIDE MECHANICAL VENTILATION IN EQUIPMENT ROOM
- ALL VARIABLE SPEED PUMPS SHALL HAVE THEIR SETTINGS LOCKED. FLOW RATES SHALL NOT EXCEED THE GALLONS PER MINUTE (GPM) LISTED IN THE HYDRAULICS NOTES SECTION OF THIS SHEET OR ELSE PLUMBING VELOCITIES MAY EXCEED LEGAL LIMITS AND PIPES AND FIXTURES MAY BE SUBJECT TO DAMAGE.
- PROVIDE EMERGENCY TELEPHONE ACCESSIBLE FROM POOL DECK
- PROVIDE CARBON MONOXIDE DETECTOR IN EQUIPMENT ROOM

**LEGEND**

- (P2) PENTAIR WHISPERFLO XF VS 5-HP PUMP
- (F2) PENTAIR TR-140C SAND FILTER
- (H) PENTAIR ET1400 NATURAL GAS HEATER (PROVIDE VENTING FOR HEATER)
- (C) ACID TANK
- (C2) CHLORINE TANK
- (C3) PENTAIR INTELLICHEM WATER CHEMISTRY CONTROLLER
- (V1) 3-WAY VALVE
- (V2) BALL VALVE
- (V3) CHEMICAL RESISTANT, CORROSION RESISTANT CHECK VALVE
- (M) FLOW METER
- (E1) TOUCH & GO SWITCH BY WATER ODYSSEY
- (E2) SINGLE TIMER CONTROLLER BY WATER ODYSSEY
- (E3) EMERGENCY POOL OFF SWITCH
- (1) 6" PVC FROM POOL SUPERFLO 360 DRAINS #1 & #2
- (2) 4" PVC FROM POOL SKIMMER LOOP
- (3) 2" PVC FROM POOL VAC LINE
- (4) 4" PVC TO POOL RETURN LOOP
- (5) PROVIDE 1.5" WATERLINE TO PUMP ROOM FOR AUTOFILL. PROVIDE BACKFLOW PREVENTER ON WATER LINE
- (6) 6" PVC FROM SUPERFLO 360 DRAINS #3 & #4
- (7) 2" PVC TO GRAVITY CANNON #1
- (8) 2" PVC TO GRAVITY CANNON #2
- (9) 3" PVC TO UNDER-BRELLA
- (10) 42" MIN. WIDE LOUVERED DOOR
- (11) PROVIDE 200-AMP ELECTRICAL PANEL IN PUMP ROOM (LOCATE PER MEP)
- (12) PROVIDE 400,000 BTU NATURAL GAS SERVICE TO PUMP ROOM FOR POOL HEATER
- (13) LINEAR DRAIN IN PUMP ROOM FLOOR. CONTINUATION BY OTHERS
- (14) PROVIDE FRESH AIR INTAKE & EXHAUST FOR HEATER (PER MANUFACTURER'S SPECIFICATIONS)
- (15) PROVIDE MECHANICAL VENTILATION FOR EQUIPMENT ROOM
- (16) BACKWASH LINE (RE: MEP). SEE POOL EQUIPMENT ROOM PROVISIONS NOTE #5, THIS SHEET



**EQUIPMENT ROOM PLAN**  
**SCALE: 1/2"=1'-0"**





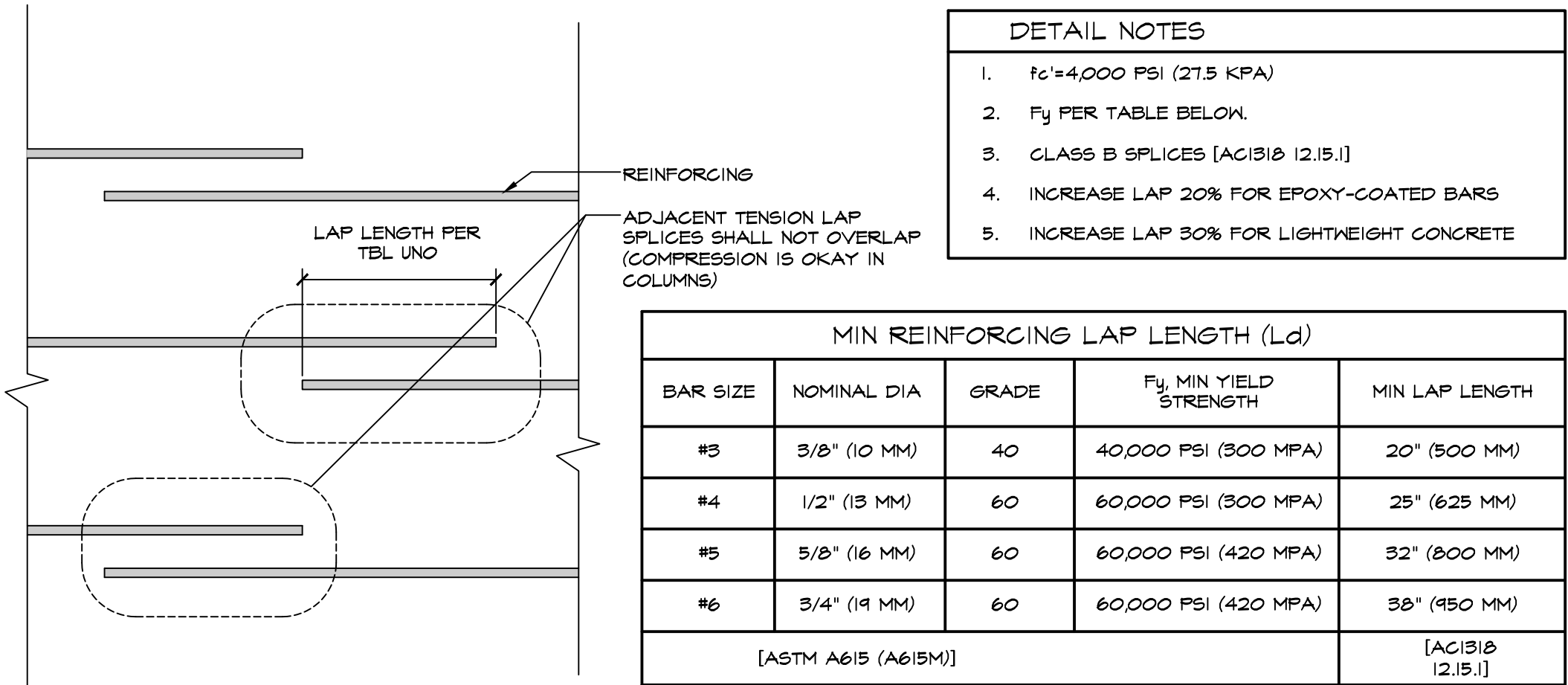


POOL WALL AND FLOOR REINFORCING SCHEDULE:								
WATER DEPTH	SPRING LINE	RADIUS "R"	POOL WALL			FLOOR SLAB		
			THICKNESS "T"	SOIL SIDE VERT. REINF.	SOIL SIDE HORIZ. REINF.	POOL SIDE WALL REINF.	THICKNESS	REINF.
0'-0" TO 3'-0"	0'-0" TO 3'-4"	3"	8" MIN	#4 @ 12" O.C.	#4 @ 12" O.C.	-	8" MIN.	#4 @ 12" O.C. E.W.
3'-0" TO 5'-0"	3'-6" TO 7'-6"	6"	12" MIN	#4 @ 12" O.C.	#4 @ 12" O.C.	TO MATCH SOIL SIDE	8" MIN.	#4 @ 12" O.C. E.W.
5'-0" TO 10'-0"	6'-2" TO 8'-2"	1'-10"	12" MIN	#4 @ 9" O.C.	#4 @ 12" O.C.	TO MATCH SOIL SIDE	8" MIN.	#4 @ 12" O.C. E.W.

POOL REINFORCING SCHEDULE NOTES:	
1	SEE POOL PLAN FOR SECTIONS AND DETAILS AT THE SHALLOW AREAS OF THE POOL.
2	THE SPRINGLINE ELEVATION IS THE VERTICAL WATER DEPTH WHERE THE RADIUS LENGTH INTERSECTS THE SURFACE OF THE POOL FLOOR.
3	PROVIDE 2" OF CONCRETE, OR GUNITE COVER ON ALL WALL REINFORCING BARS.
4	SUPPORT FLOOR SLAB REINFORCING BARS ON BAR SUPPORTS @ 36" O.C. EACH WAY WITH CONCRETE BLOCK OR CHAIRS PER ACI 301. SEE DETAILS FOR BAR SUPPORT HEIGHTS.
5	REINFORCING STEEL SHOWN IN SCHEDULE IS MINIMUM REQUIRED. CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL PER CROSS SECTIONS

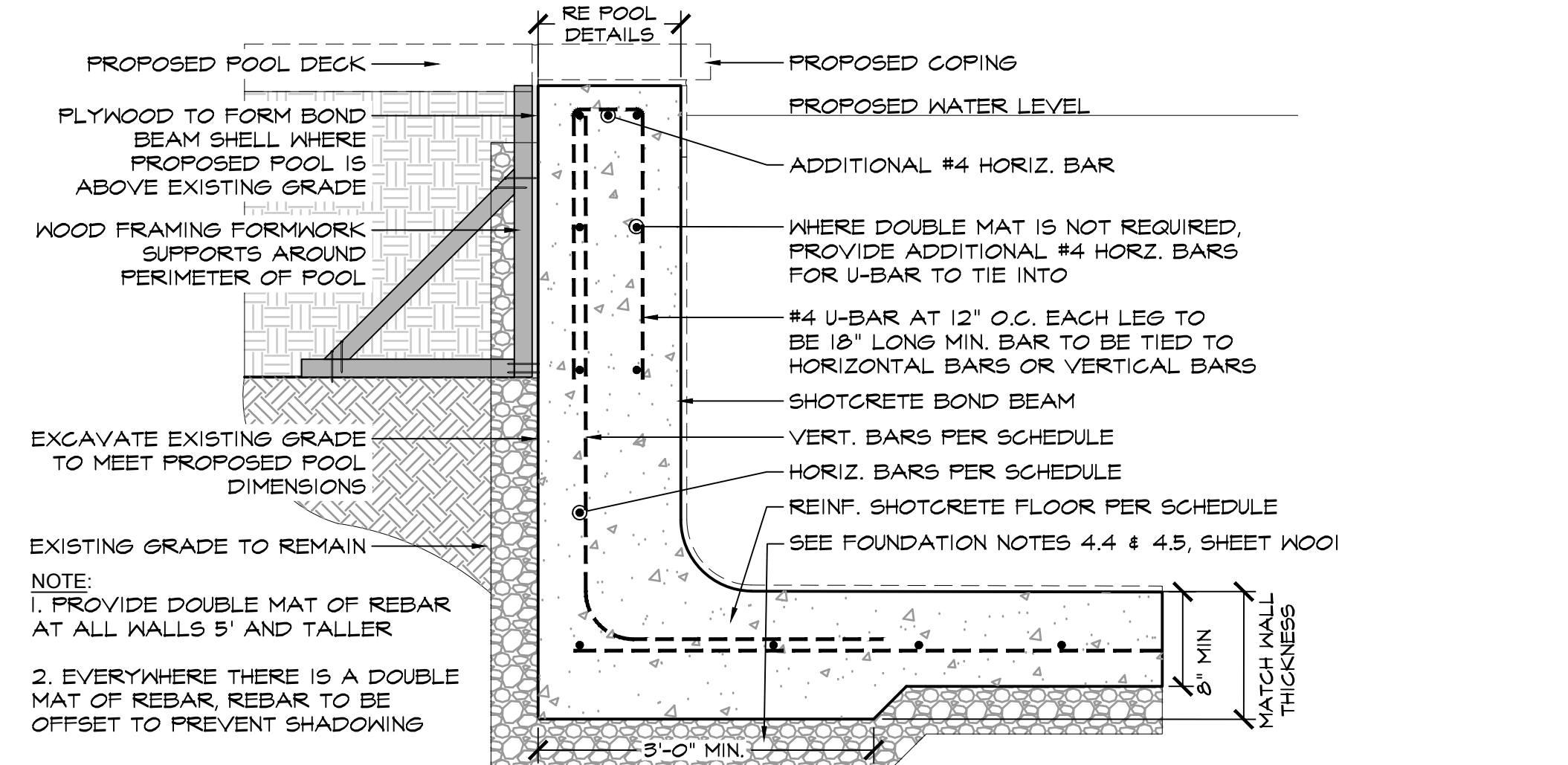
### 1 POOL REINFORCING SHEDULE

SCALE: NTS



### 5 SHOTCRETE NON-CONTACT LAP SPLICES

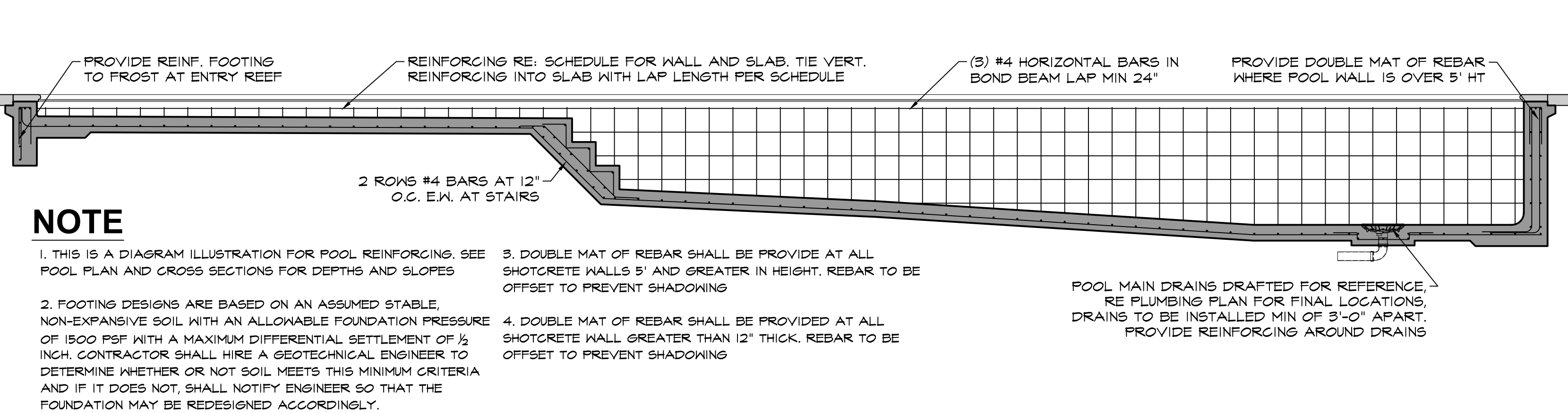
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### 9 TYPICAL REBAR TYING / WALL FRAMING FORMWORK

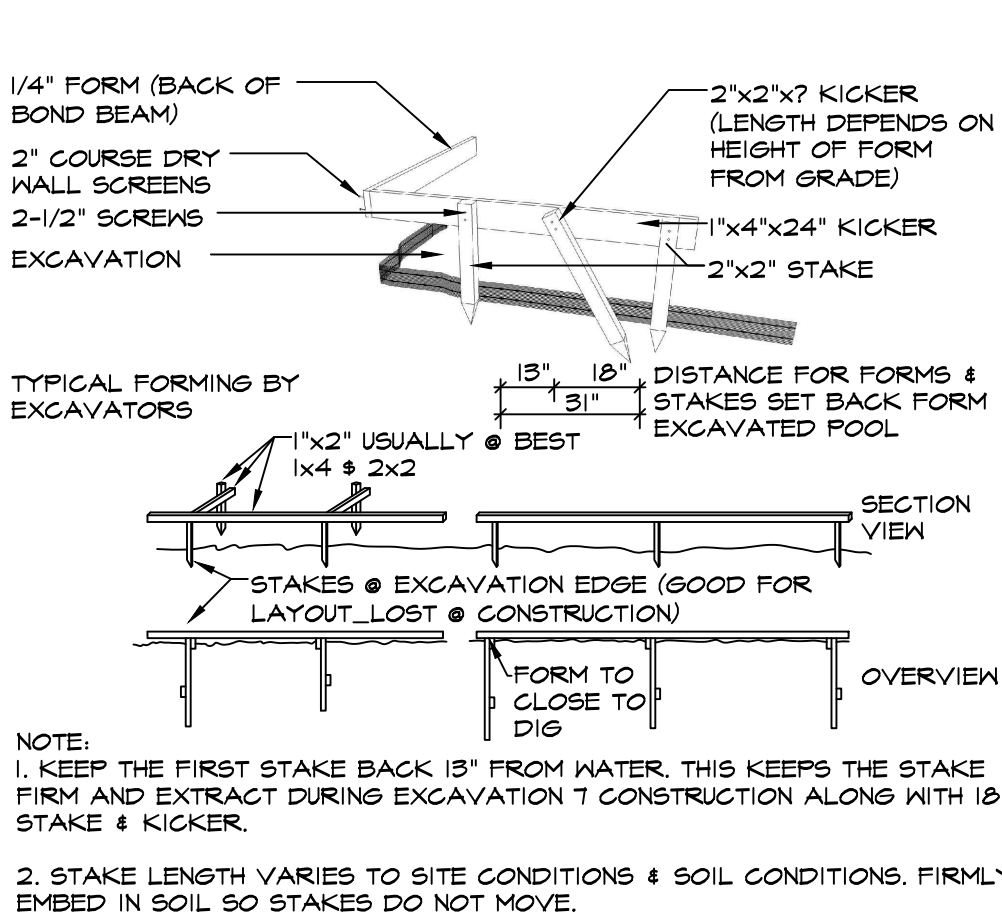
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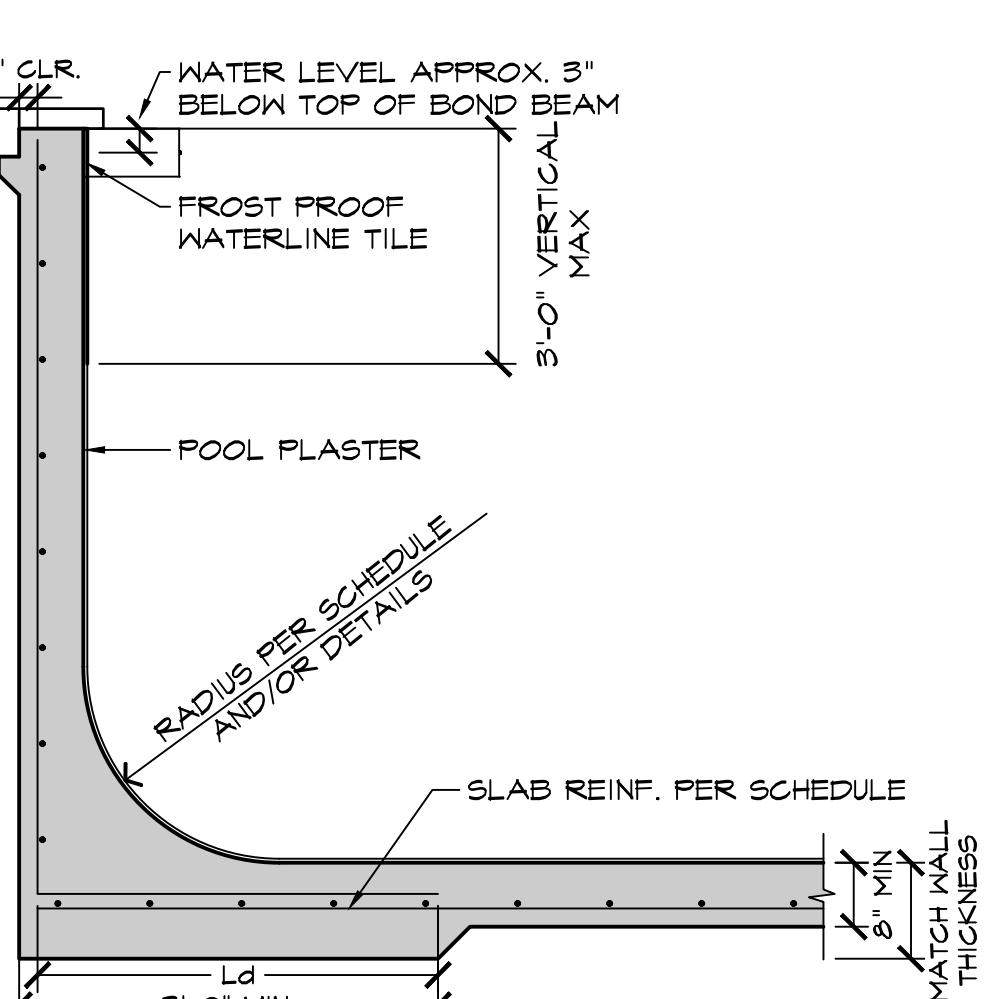
### 13 TYPICAL POOL REINFORCING CROSS SECTION

SCALE: NTS



### 2 STRUCTURAL FRAMING FORMWORK

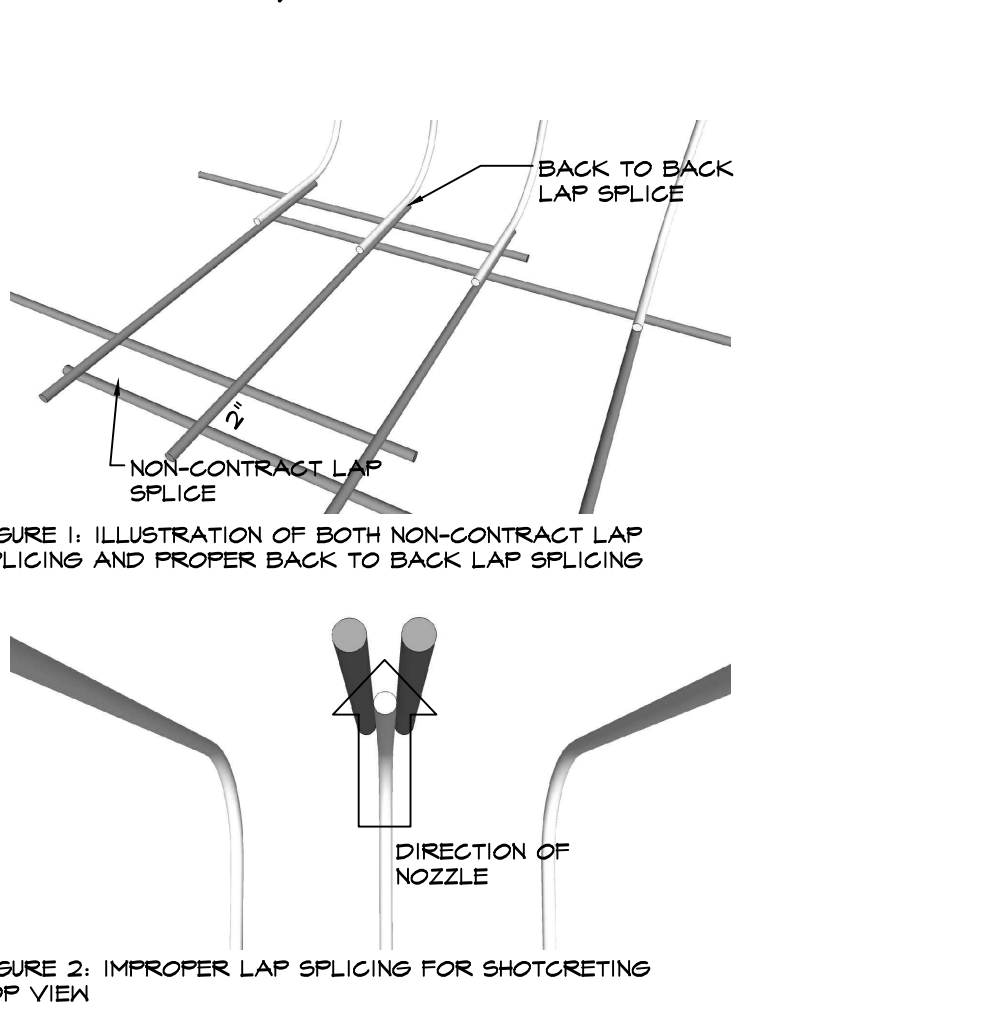
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### 6 WALL TO BOTTOM TRANSITION

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

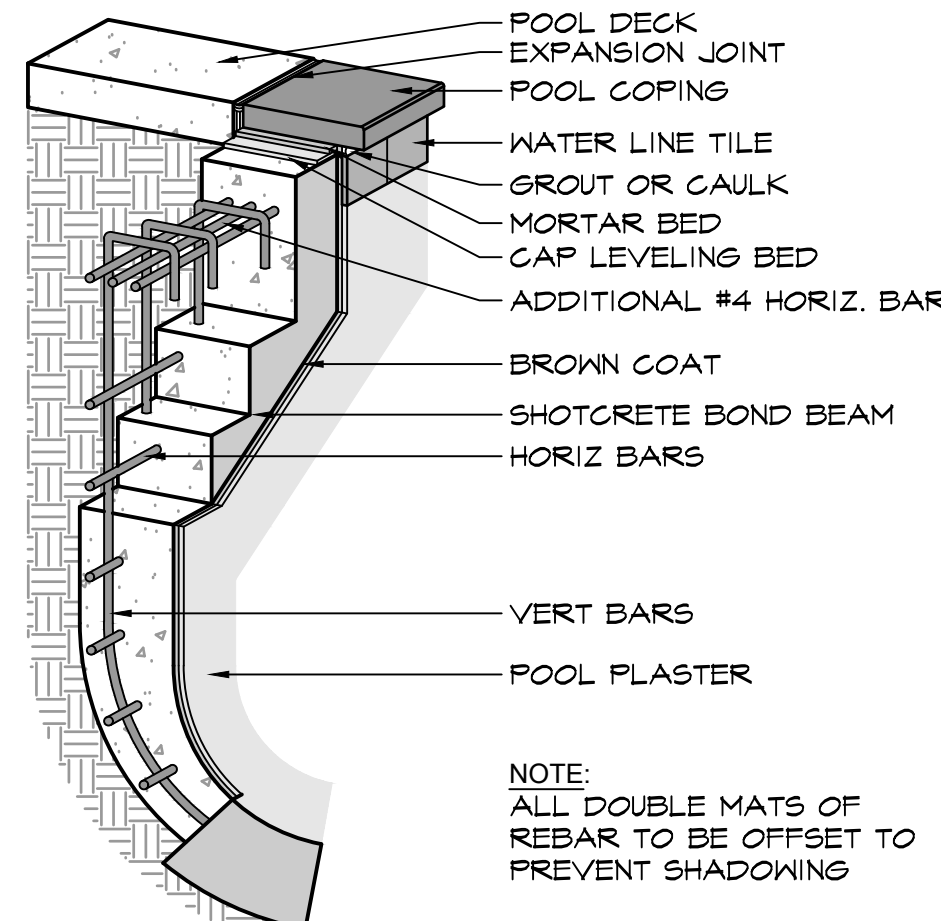
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### 10 LAP SPLICING SHOTCRETE

SCALE: NTS

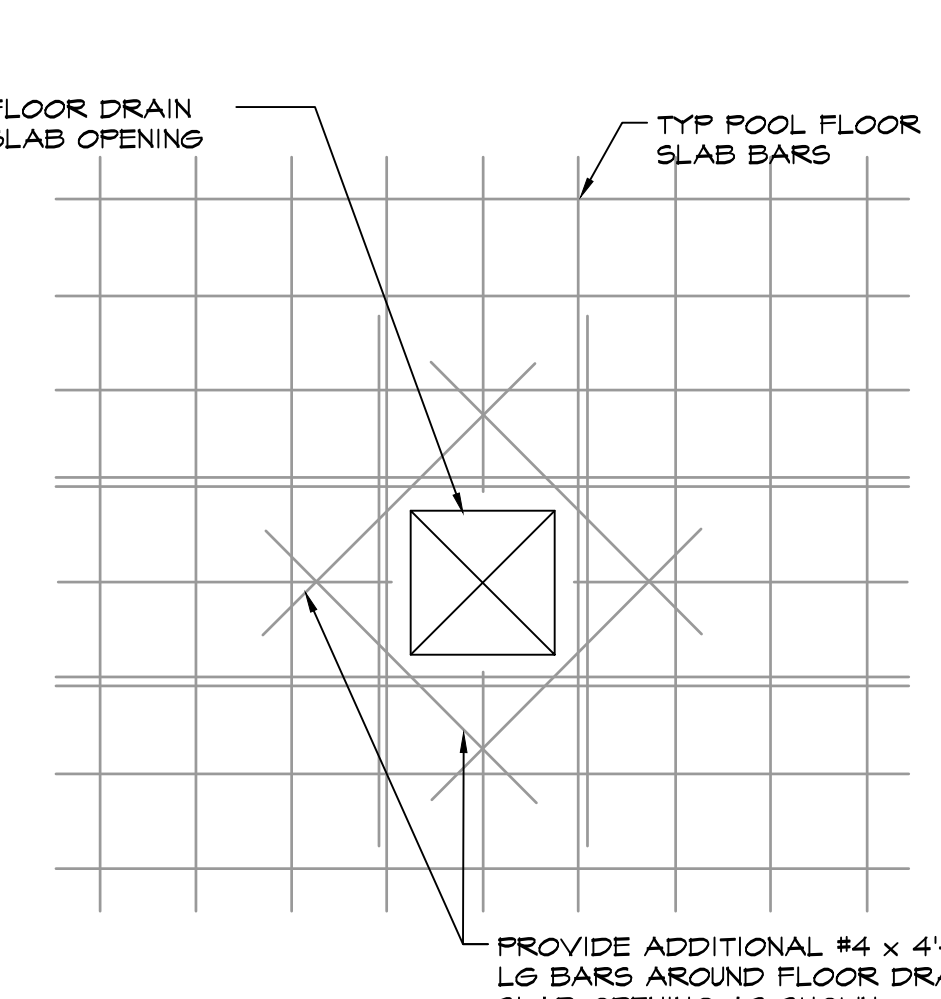
ILLUSTRATIVE VIEW



### 3 BOND BEAM REBAR VIGNETTE

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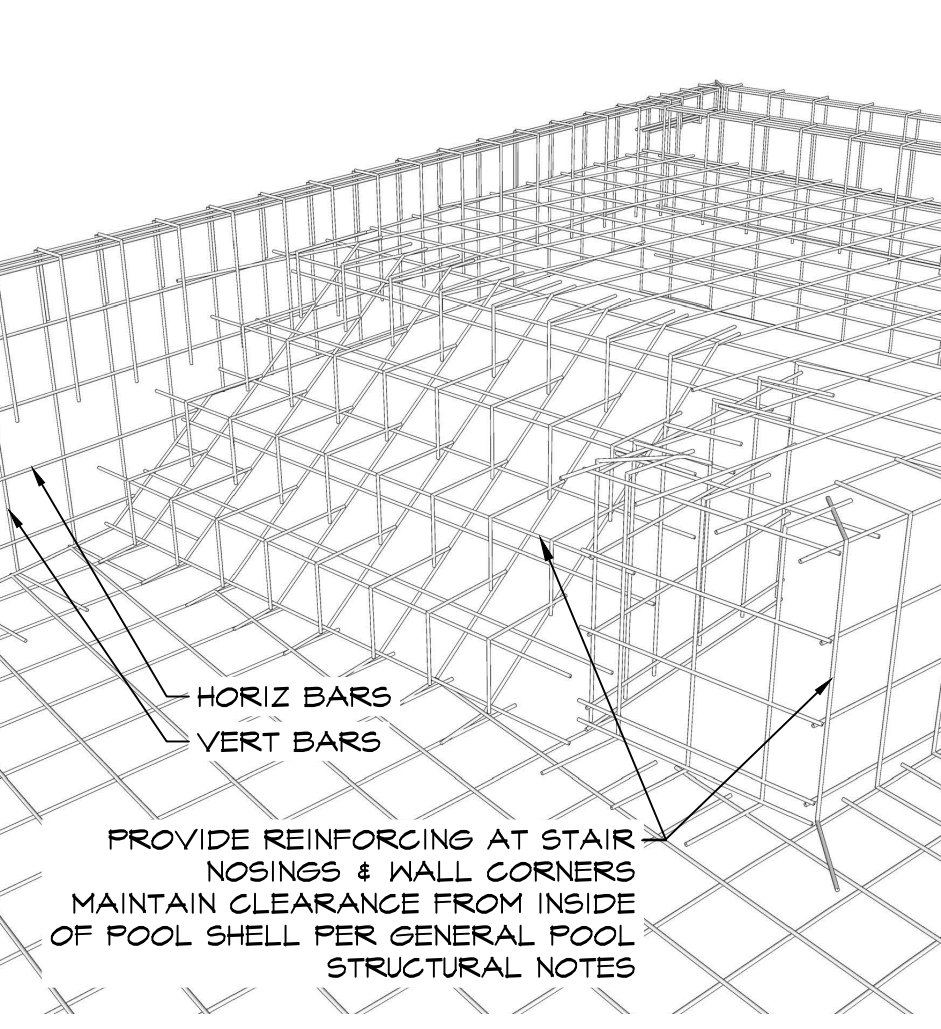
ILLUSTRATIVE VIEW



### 7 TYPICAL REBAR AT POOL DRAIN

SCALE: 1" = 1'-0"

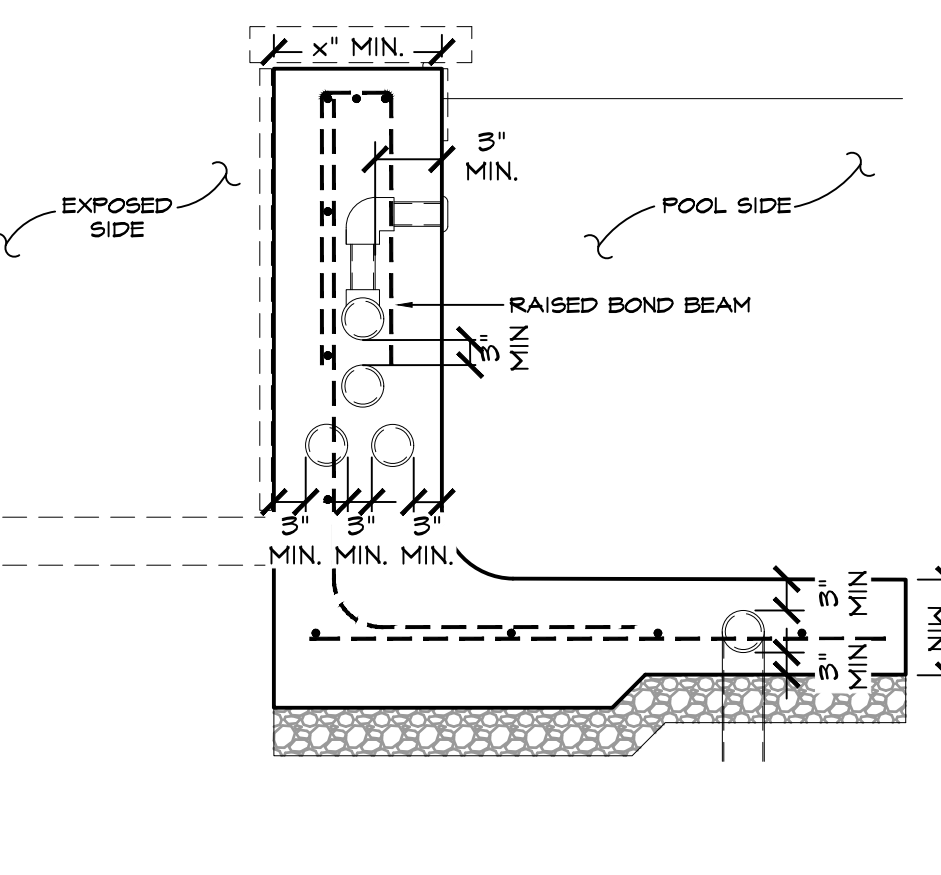
SECTION



### 11 TYPICAL REBAR LAYOUT

SCALE: N.T.S.

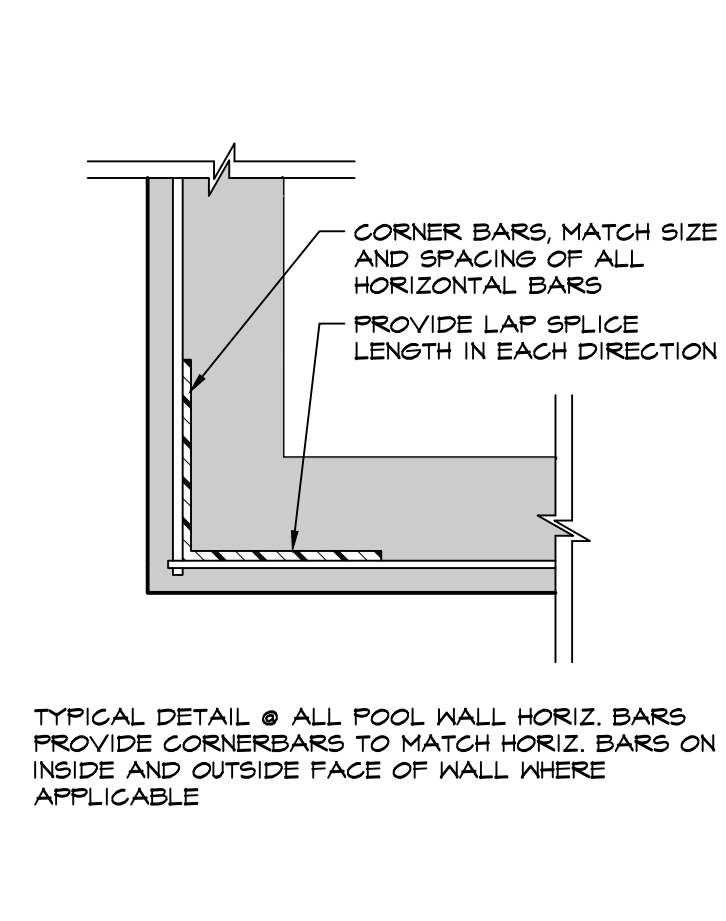
VIGNETTE



### 14 BOND BEAM PLUMBING CLEARANCES

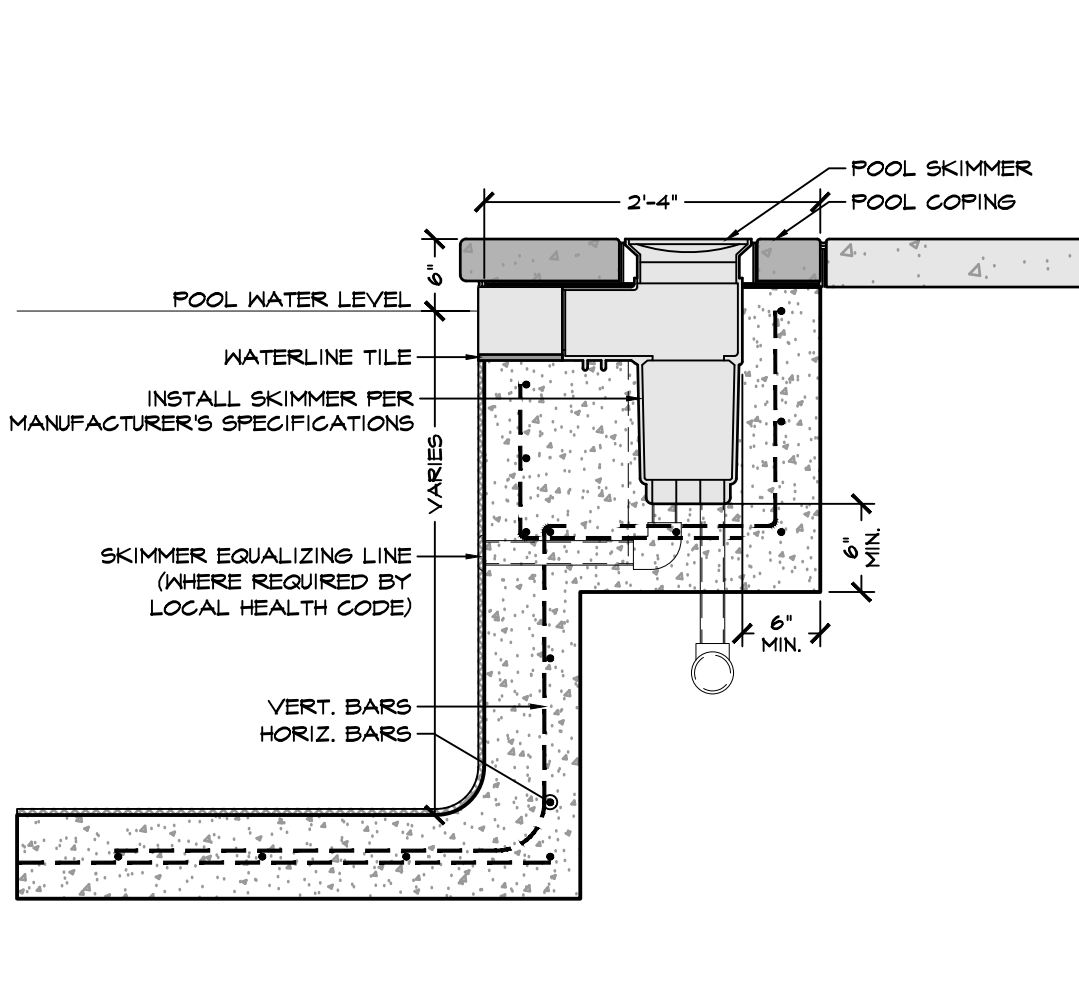
SCALE: N.T.S.

CROSS SECTION



### 4 CORNER BAR DETAIL

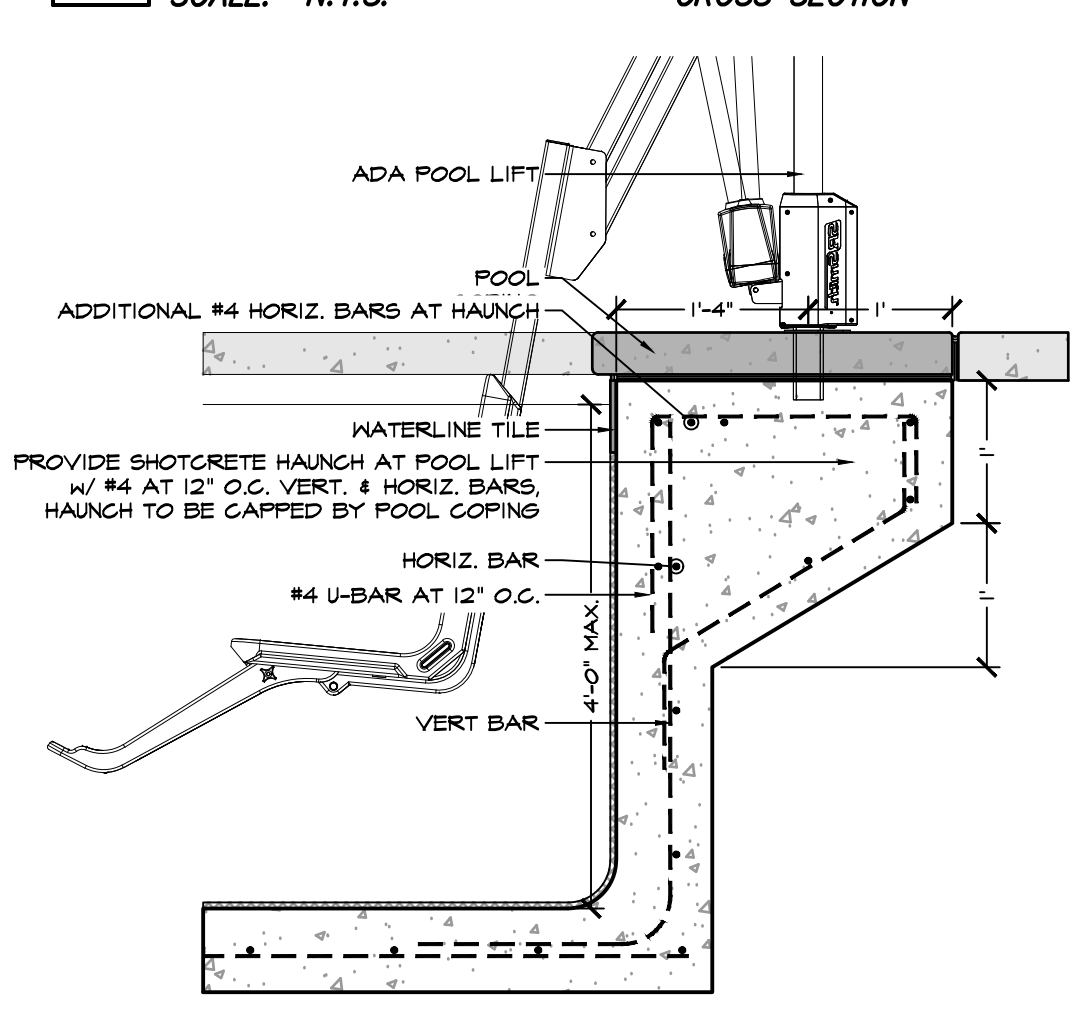
SCALE: NTS



### 8 REINFORCING AT SKIMMER

SCALE: N.T.S.

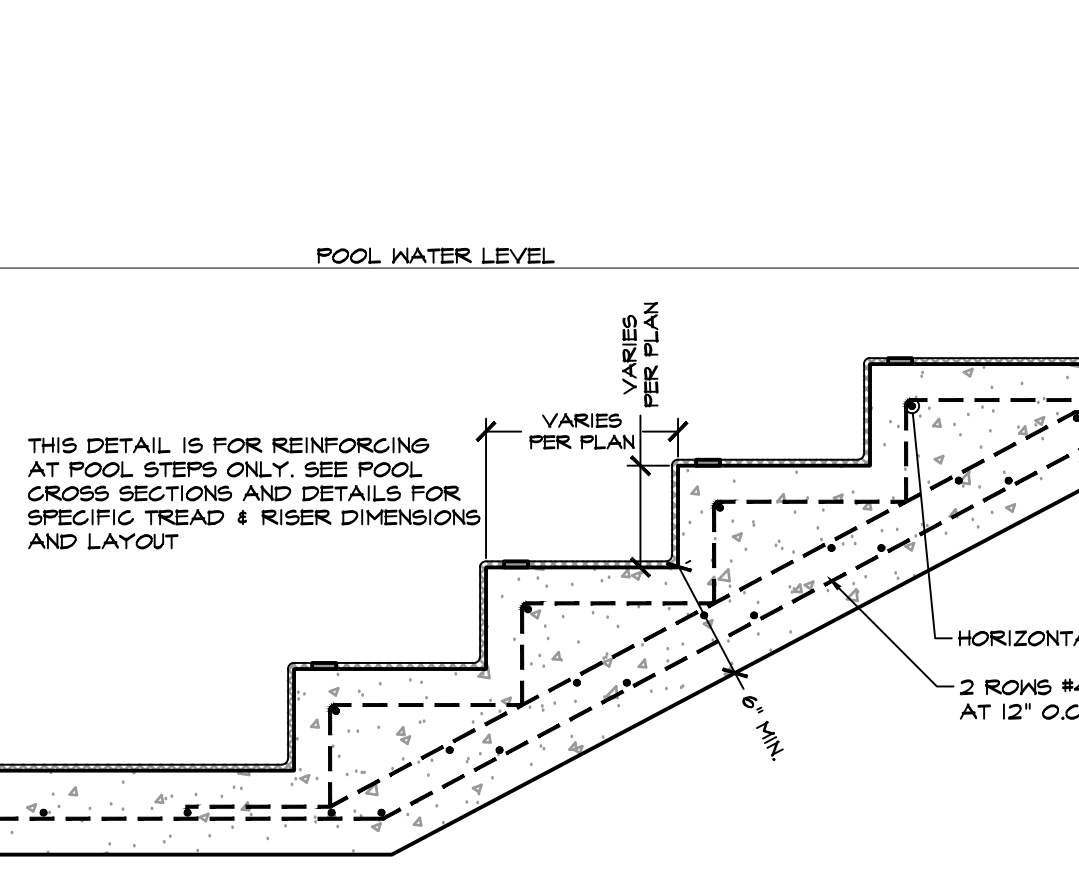
CROSS SECTION



### 12 ADA LIFT INSTALLATION

SCALE: N.T.S.

CROSS SECTION

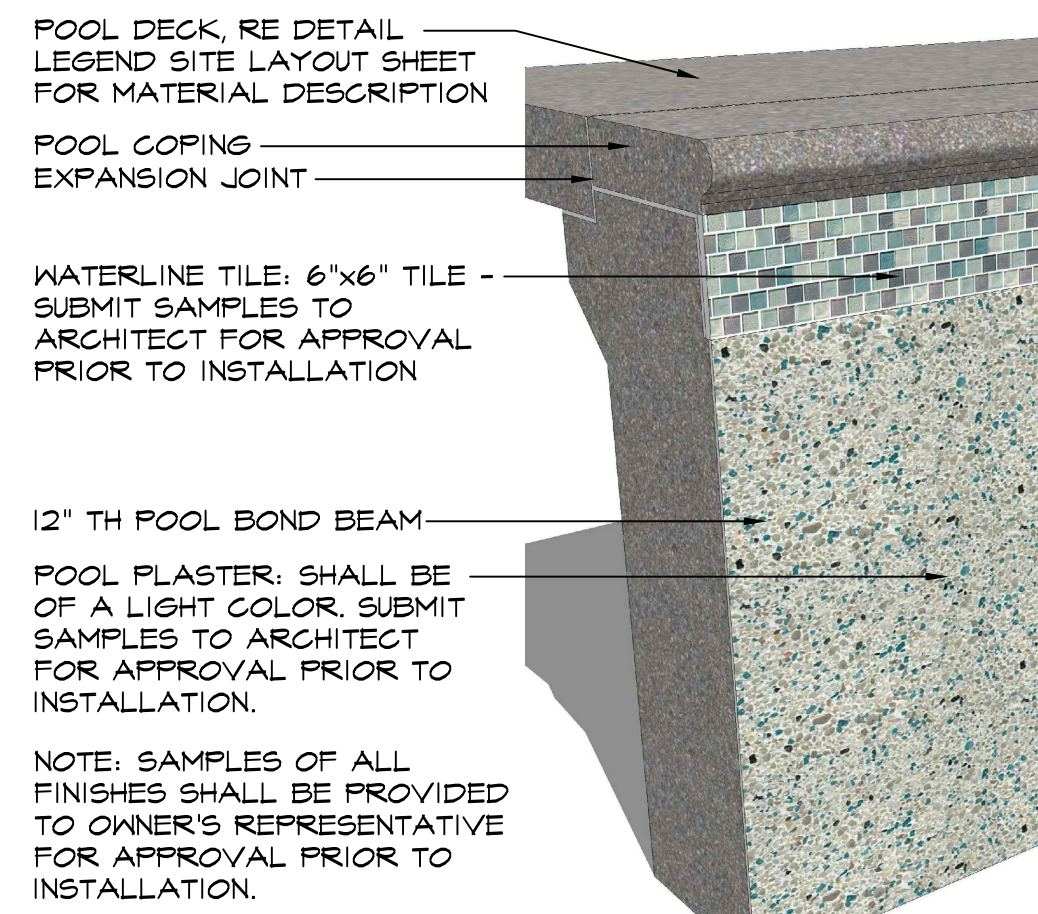


### 15 REINFORCING AT POOL STEPS

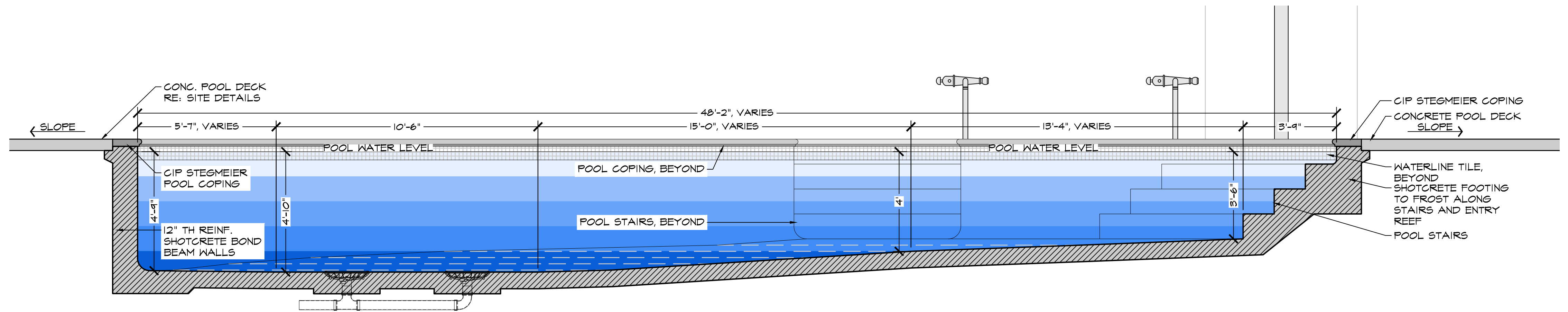
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CROSS SECTION

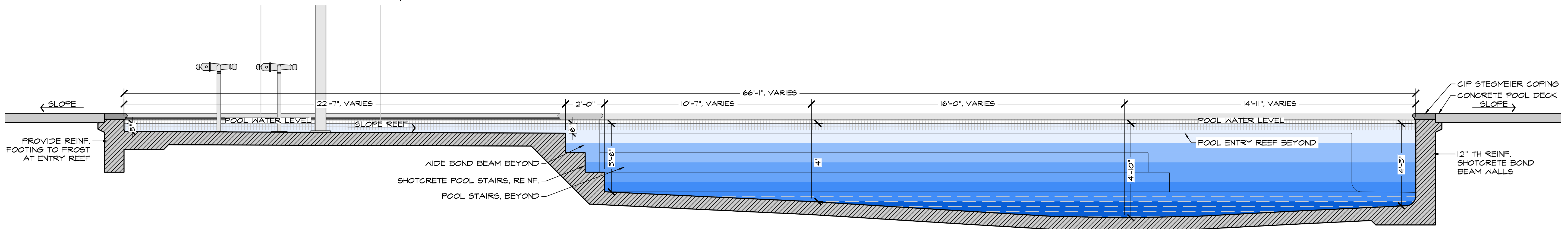




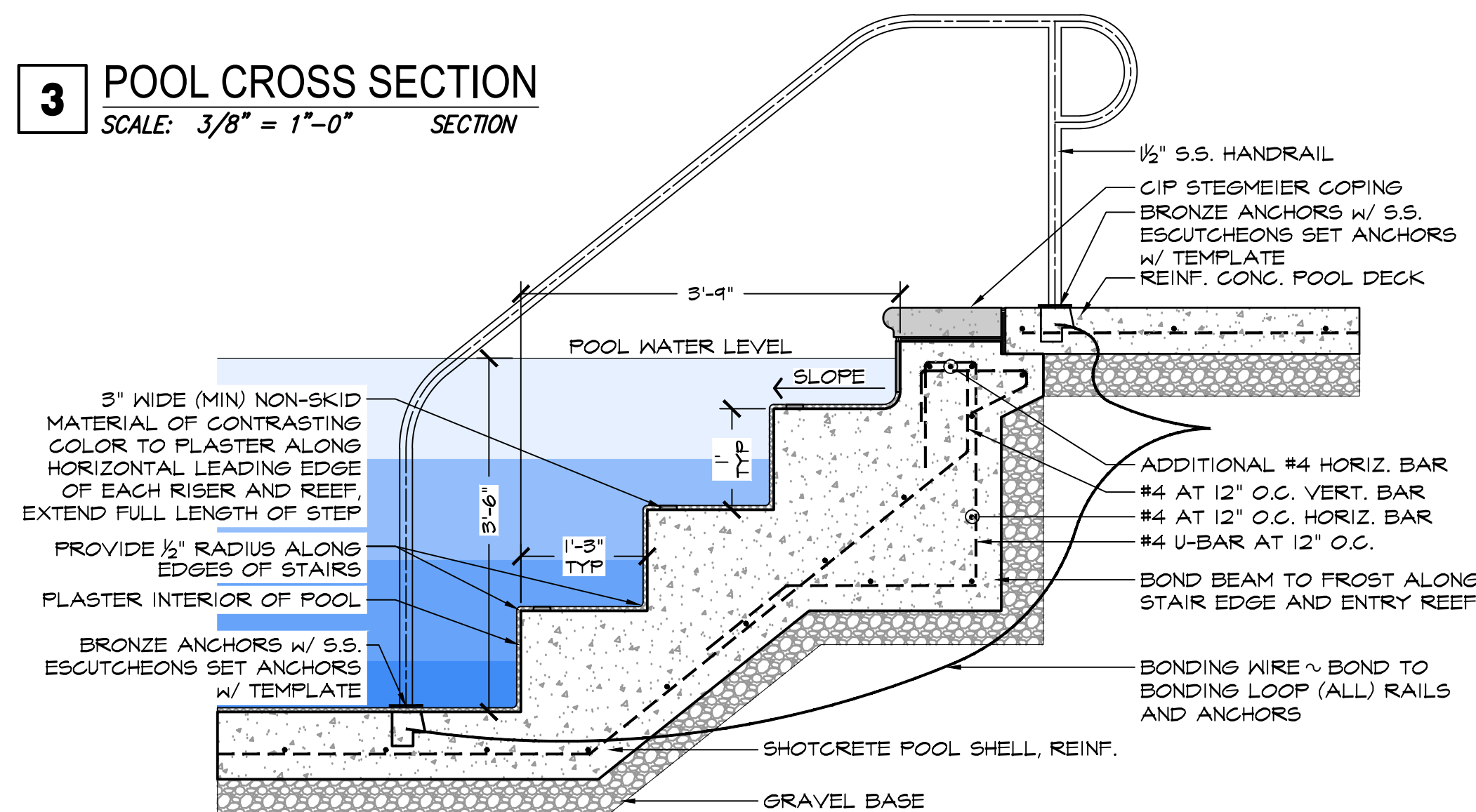
**1 POOL FINISHED DIAGRAM**  
SCALE: NTS ILLUSTRATIVE VIEW



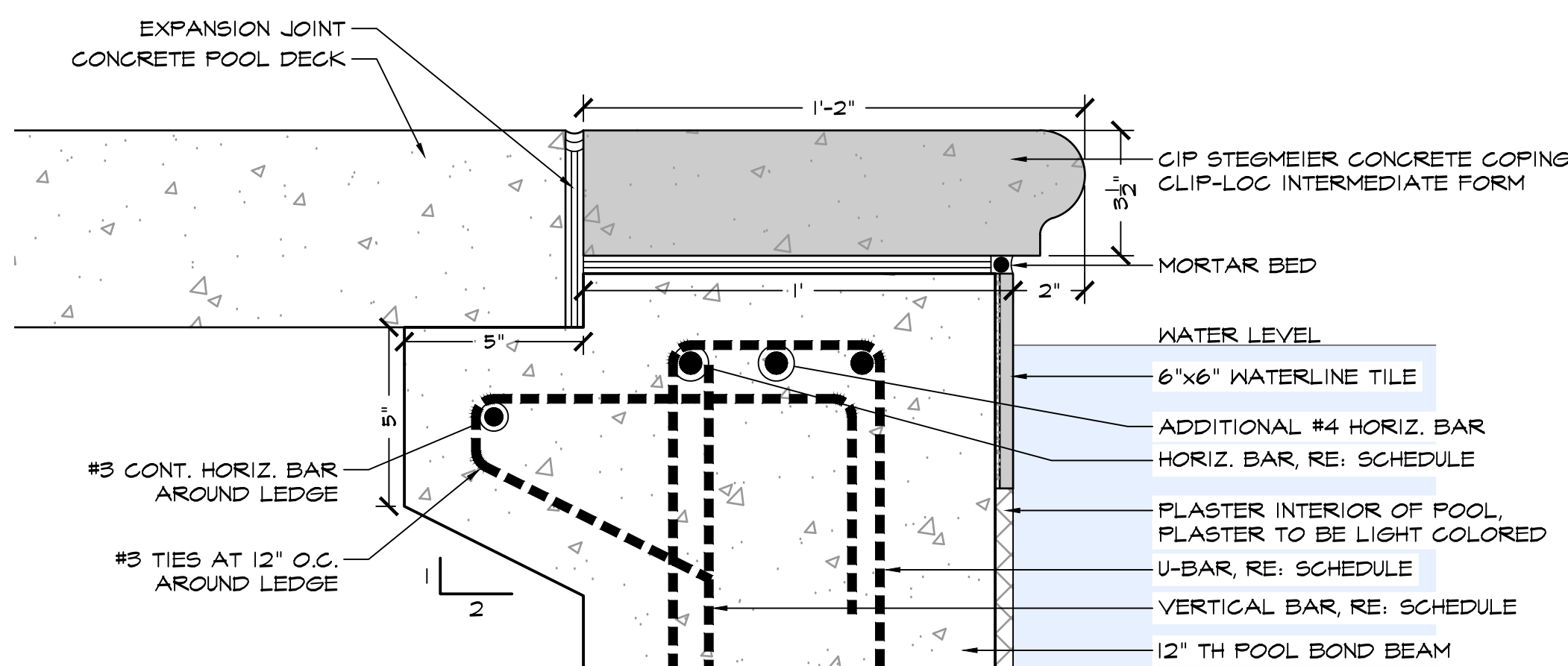
**2 POOL CROSS SECTION**  
SCALE: 3/8" = 1'-0" SECTION



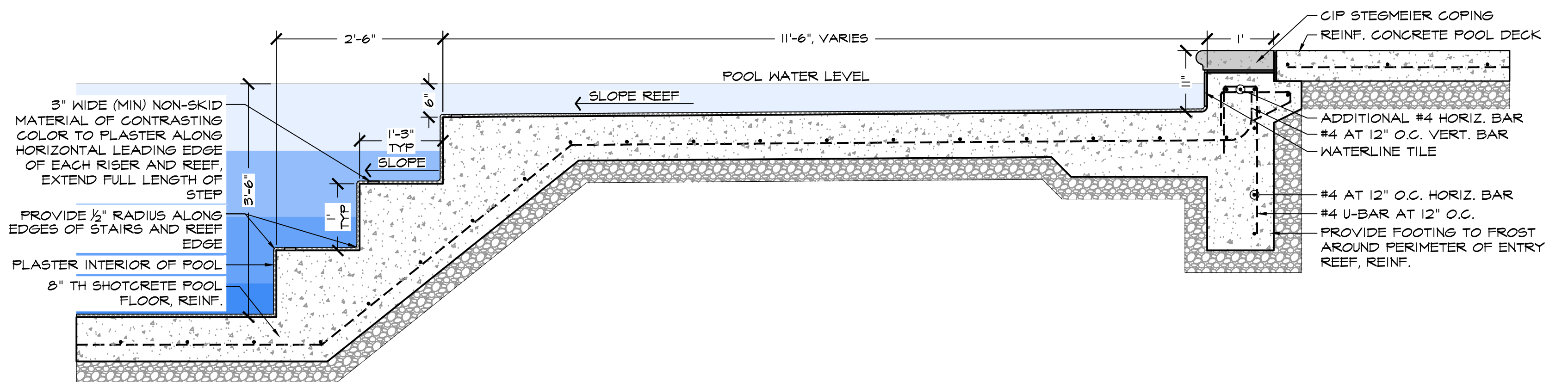
**3 POOL CROSS SECTION**  
SCALE: 3/8" = 1'-0" SECTION



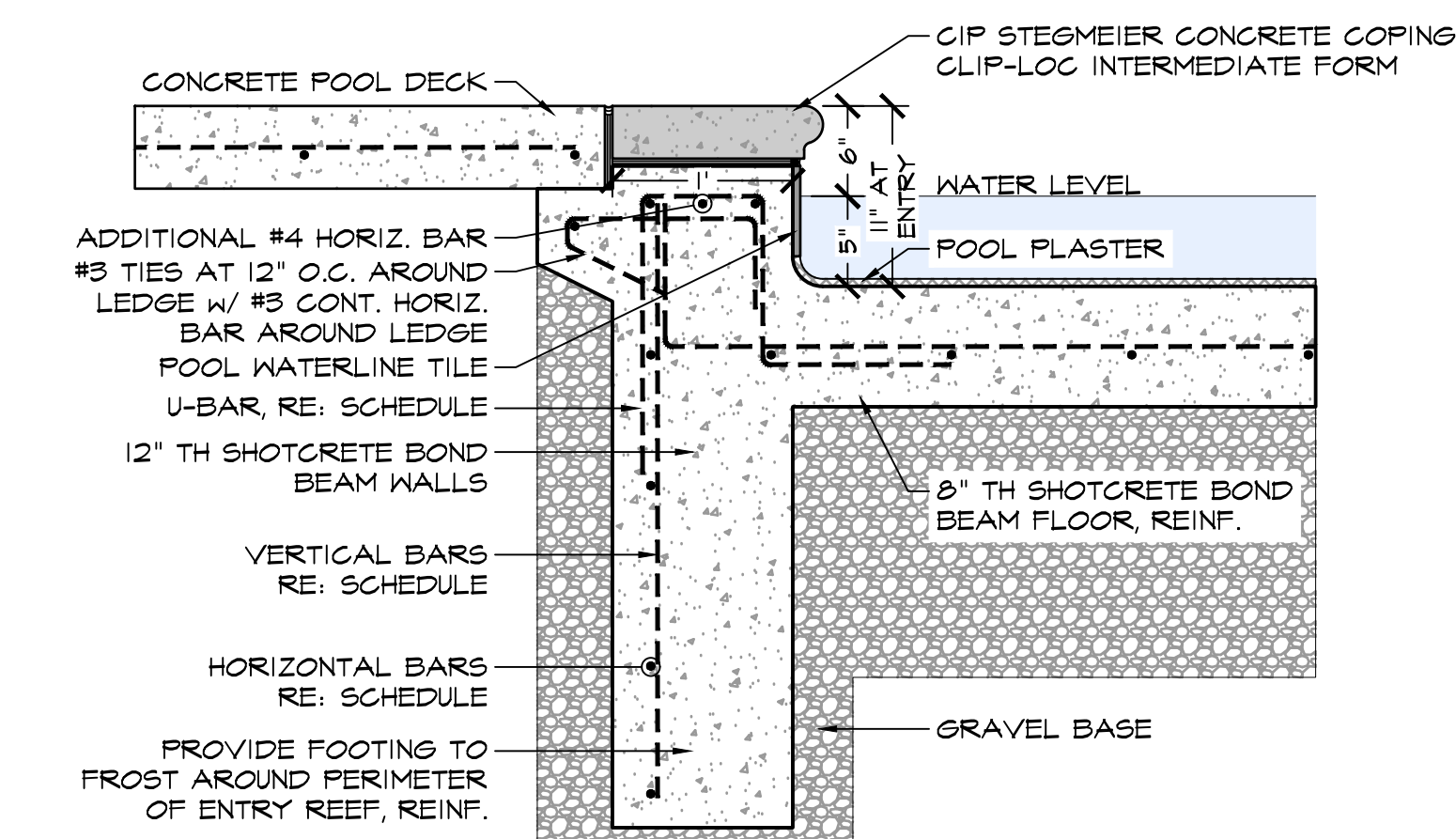
**4 POOL STAIRS**  
SCALE: 3/4" = 1'-0" SECTION



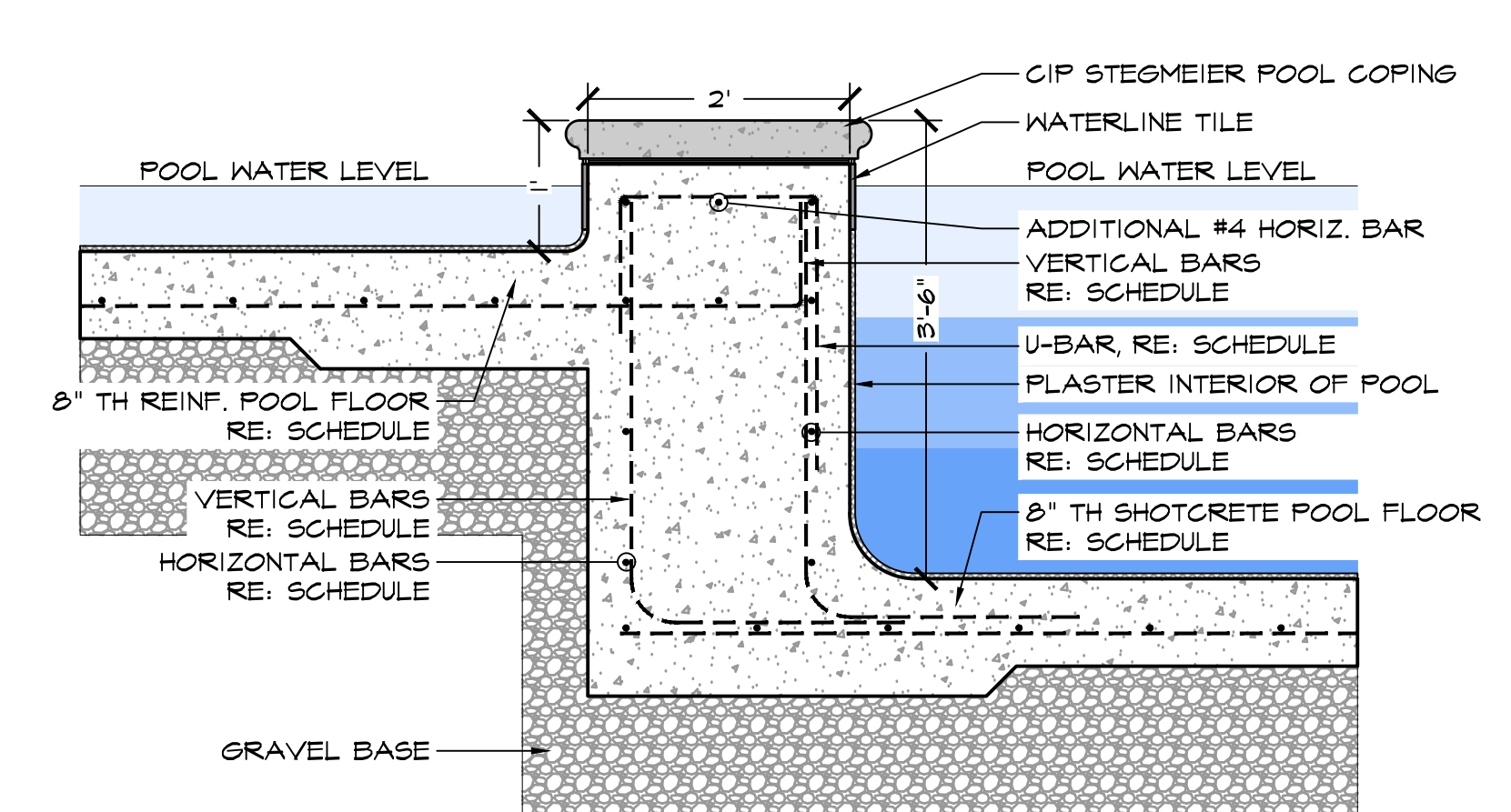
**6 POOL COPING & BOND BEAM**  
SCALE: 3" = 1'-0" SECTION



**5 POOL REEF AND STAIRS**  
SCALE: 3/4" = 1'-0" SECTION



**7 POOL ENTRY REEF**  
SCALE: 1" = 1'-0" SECTION



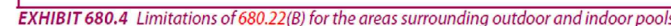
**8 POOL WIDE BOND BEAM**  
SCALE: 3/4" = 1'-0" SECTION





SCALE: NTS      ILLUSTRATIVE VIEWS

Article 680 • Swimming Pools, Fountains, and Similar Installations



## GLASS POOL TILE - P602 TCNA STANDARD

- ### BASECRETE RECOMMENDED CURE TIMES

- BASECRETE POOL SHELL pH- STABILIZER - 24 HOURS
  - BASECRETE + POOL SHELL PRIMARY WATERPROOFING - 24 HOURS
  - BASECRETE + SECONDARY WATERPROOFING / BOND COAT - 48 HOURS
- PRODUCTS MAY BE PURCHASED AT YOUR LOCAL POOLCORP, NPT, SCP, OR SUPERIOR POOL PRODUCT DISTRIBUTOR

PRODUCTS MAY BE PURCHASED AT YOUR LOCAL  
POOLCORP, NPT, SCP, OR SUPERIOR POOL PRODUCT  
DISTRIBUTOR

BASECRETE PRODUCTS ARE APPROVED AND RECOMMENDED FOR PRIMARY AND SECONDARY WATERPROOFING FOR POOL SHELLS BY NPT, SCP, SSP, OCEANSIDE GLASS AND TILE AND GENESIS

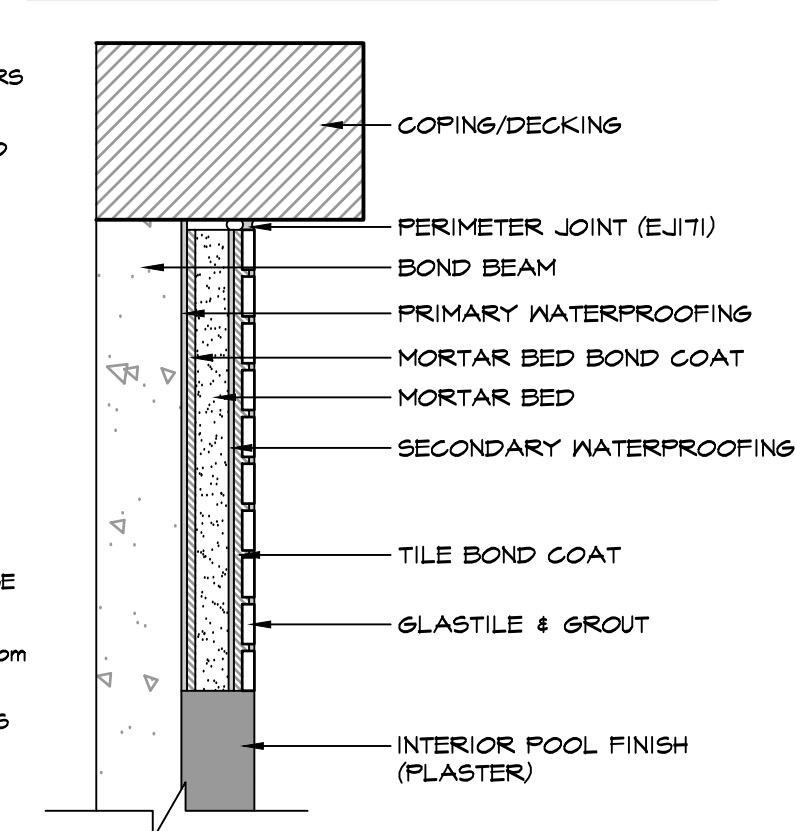
BASECRETE PROUDLY SPONSORS GENESIS AND TRIBUTARY

FOR TECHNICAL QUESTIONS PLEASE CONTACT: VITO  
MARIANO - 941-879-4600

FOR SALES, SUPPORT AND TRAINING ASSISTANCE PLEASE  
CONTACT: BEAU LAMB - 561-389-8806

FOR GENERAL QUESTIONS EMAIL: [info@basecreateusa.com](mailto:info@basecreateusa.com)

NOTE: INSTALL PER MANUFACTURERS RECOMMENDATIONS



1. PRESSURE WASH AND CLEAN POOL SHELL SURFACE WITH BASECOTE POOL SHELL CLEANER.
  - BTH-3T-101B - BASECOTE POOL SHELL CLEANER
2. STABILIZE THE pH - APPLY BASECOTE POOL SHELL pH STABILIZER.
  - CURE 24 HOURS
  - BTH-3T-101A - BASECOTE POOL SHELL pH STABILIZER
3. PRIMARY WATERPROOFING - APPLY BASECOTE + POOL SHELL PRIMARY WATERPROOFINGS (PENETRATING COLLOIDAL SILICATE).
  - CURE 24 HOURS
  - BTH-3T-101B - BASECOTE + POOL SHELL PRIMARY WATERPROOFINGS
4. PRESSURE WASH AND CLEAN POOL SHELL SURFACE
5. INSTALL HIGH STRENGTH BASECOTE REINFORCING MESH OVER TRANSITION AREAS, JOINTS, CHANGE OF PLANES, CRACKS AND FRACTURED SURFACES.
  - BTH-3T-100A - BASECOTE 4"X10" REINFORCING MESH
  - BTH-3T-100B - BASECOTE 4.5"X10" REINFORCING MESH
  - BTH-3T-101A - BASECOTE 12"X10" REINFORCING MESH
  - BTH-3T-101B - BASECOTE 30"X10" REINFORCING MESH
6. SECONDARY WATERPROOFINGS / BOND COAT - APPLY BASECOTE SECONDARY WATERPROOFING / BOND COAT TO A LIGHTLY DAMPENED SURFACE. CURE 48 HOURS.
  - BTH-3T-1001 - PART 2 OF 2 - (1) 5 GAL OF LIQUID AND (1) 5 GAL OF POWDER OF WHITE COMPOUND OR/
  - BTH-3T-1005 - PART 2 OF 2 - (3) 50 LBS OF WHITE COMPOUND OR/
  - BTH-3T-1004 - PART 2 OF 2 - (3) 50 LBS OF BLACK COMPOUND
7. INSTALL FLASHER

SCALE: NTS SECTION

- ### 3 PLACEMENT OF PANEL BOARD

**SCALE:** NTS **SECTION**



- SCALE: N.T.S.



1. DEPTH MARKERS SHALL BE LOCATED A MAXIMUM OF 25'-0" OR LESS CENTER TO CENTER AROUND THE FULL PERIMETER OF THE SWIMMING POOL.
2. THE MAXIMUM DEPTH OF THE SWIMMING POOL SHALL BE MARKED ON BOTH SIDES OF THE SWIMMING POOL AT THE MAIN DRAIN.
3. THE DEPTH SHALL BE MARKED AT 6" DEPTH INTERVALS. SEE DEPTH MARKERS SCHEDULE ON POOL PLAN DRAWINGS FOR MORE INFORMATION.
4. NO "DIVING" SYMBOL TILES SHALL BE LOCATED ON THE DECK WITH EACH SET OF DEPTH MARKERS IN 0' TO 5'-0" OF WATER.
5. LETTER, NUMBER AND GRAPHIC MARKERS SHALL BE 5" RESISTANT OF A CONTRASTING COLOR FROM THE DECK AND, AT LEAST, 4" IN HEIGHT.

## SCALE: NTS MANUF. SPECS.



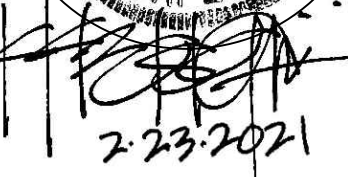
SCALE: 1" = 1'-0" SECTION



SCALE: 1" = 1'-0" SECTION



SCALE: 1" = 1'-0" SECTION



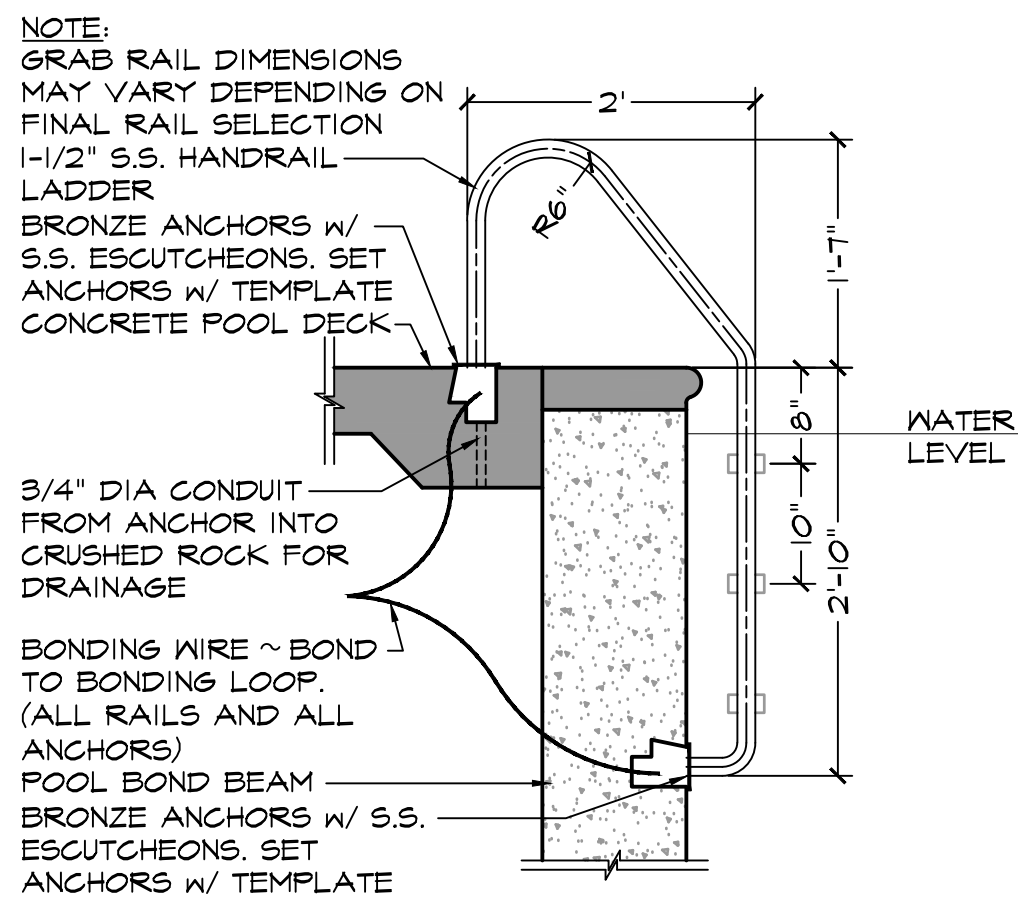
**SUMMIT VIEW FARMS**  
POOL CONSTRUCTION DOCUMENTS  
LEE'S SUMMIT, MISSOURI

FEBRUARY 23, 2021

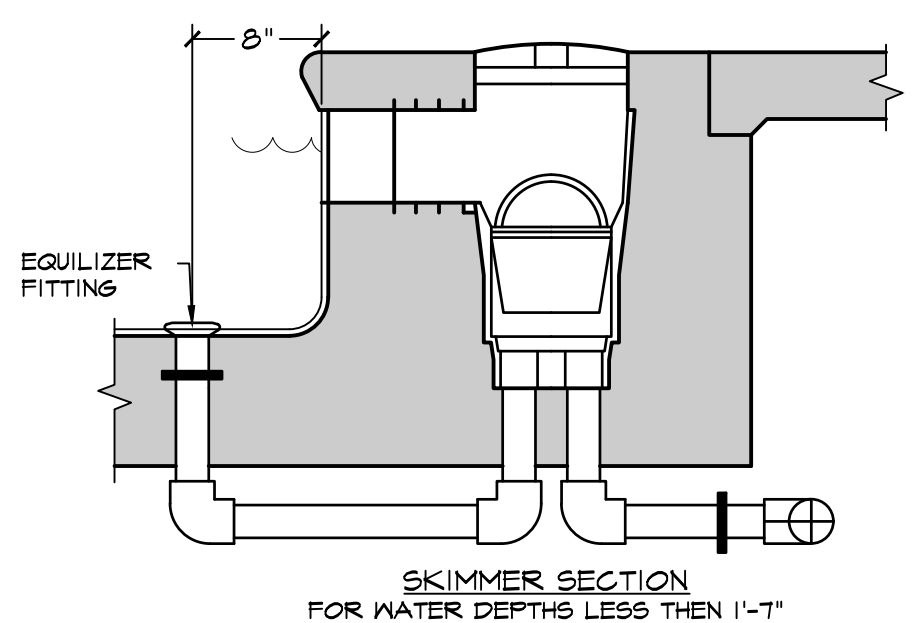
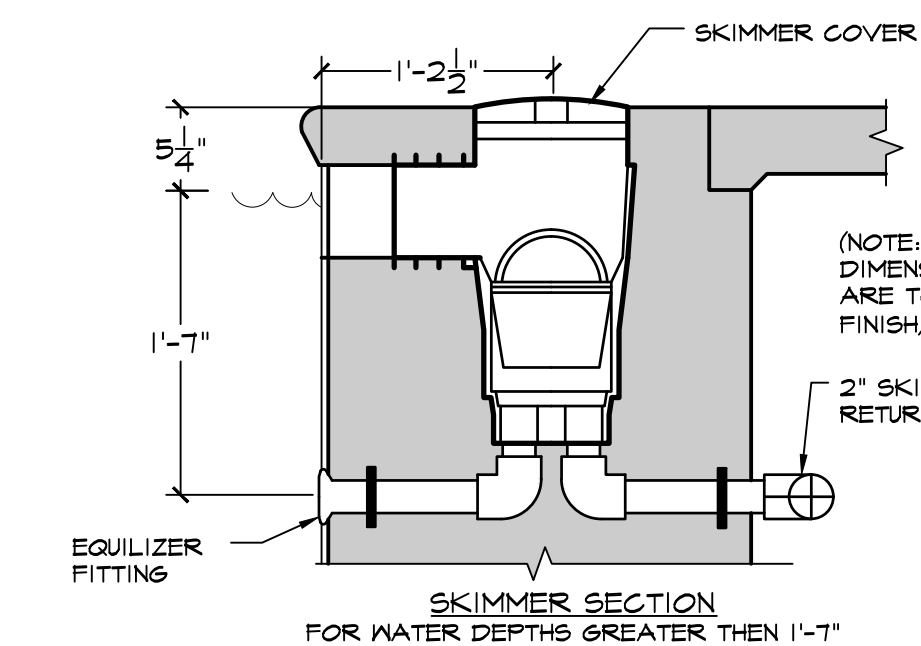
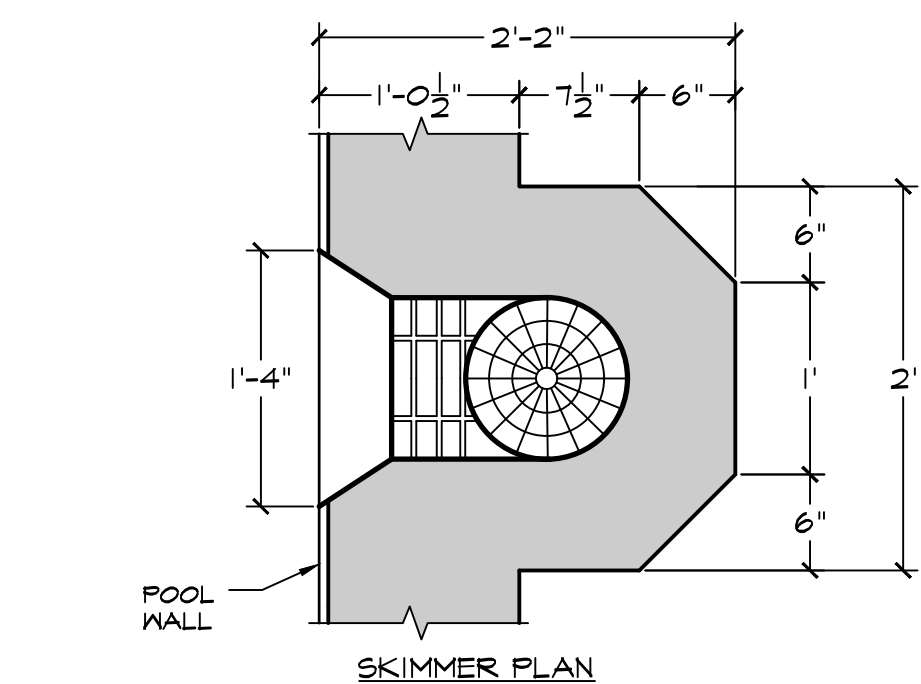
## POOL DETAILS

W104

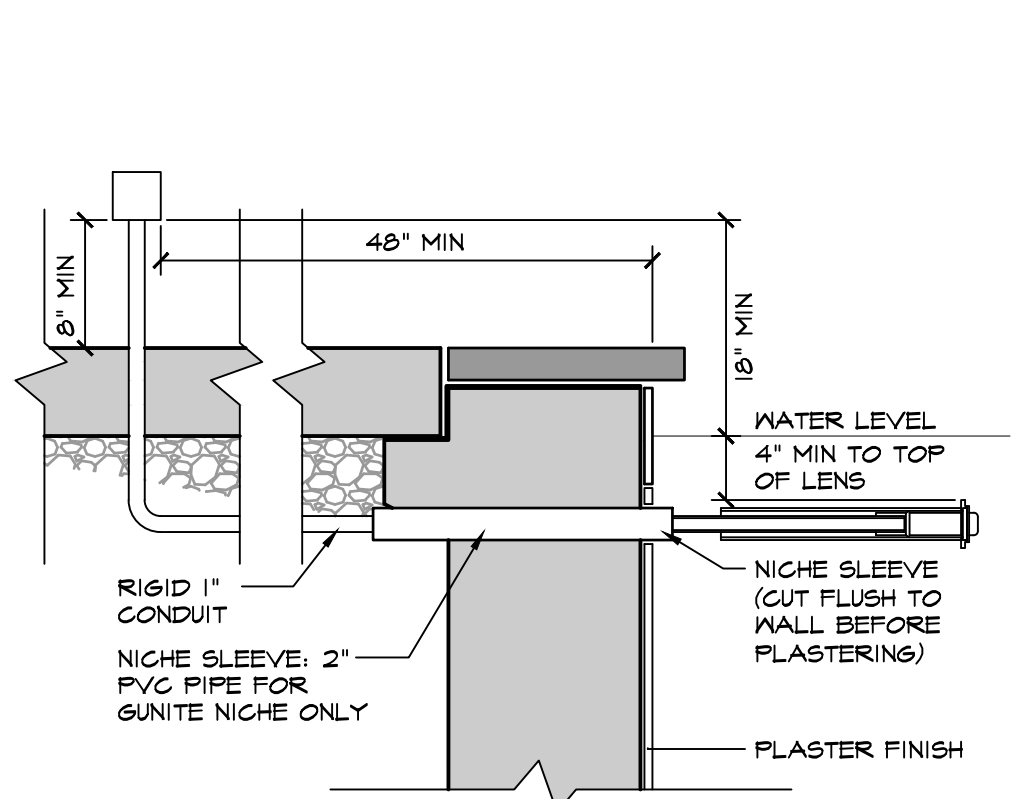




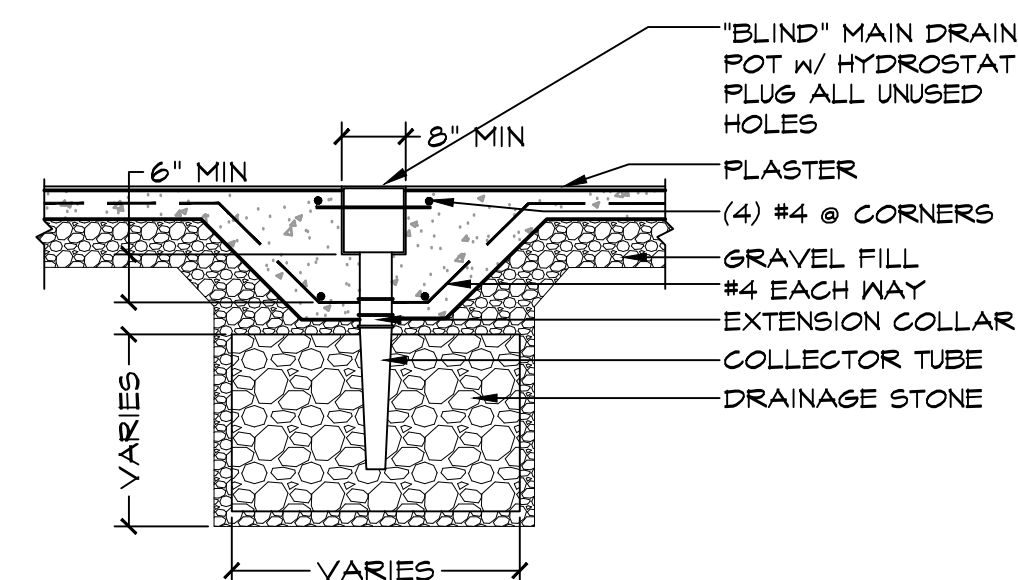
**1** POOL HANDRAIL DETAIL  
SCALE: 3/4" = 1'-0" SECTION



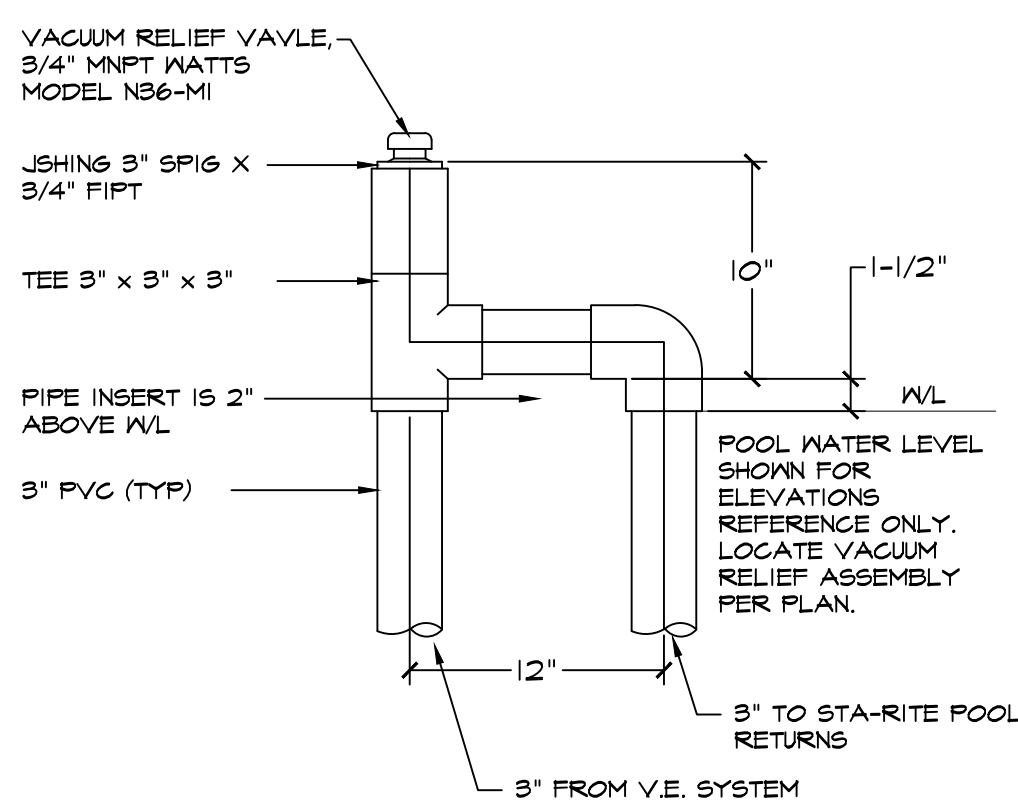
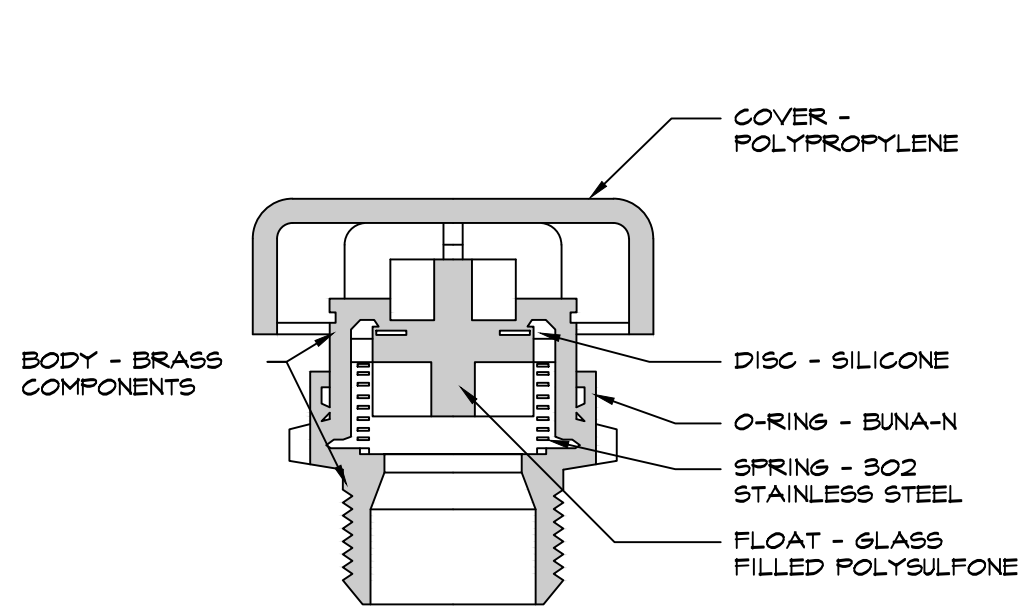
**8** POOL SKIMMER DETAIL  
SCALE: 1" = 1'-0" SECTION



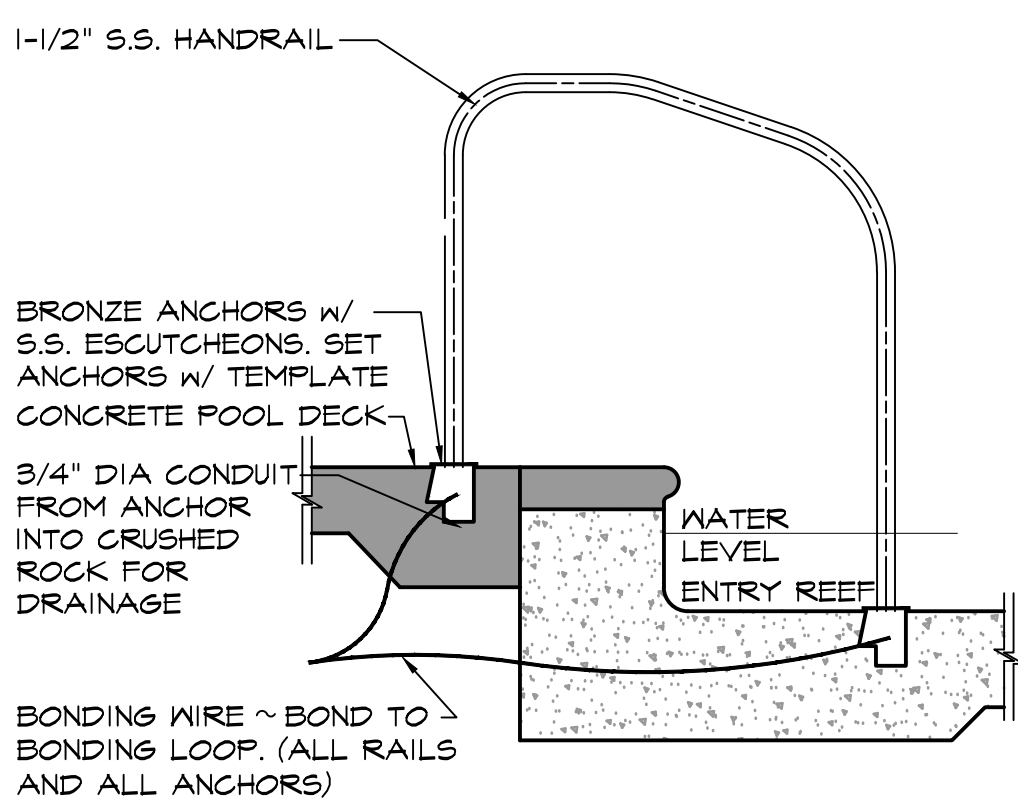
**12** LIGHT PLACEMENT DETAIL  
SCALE: NTS SECTION



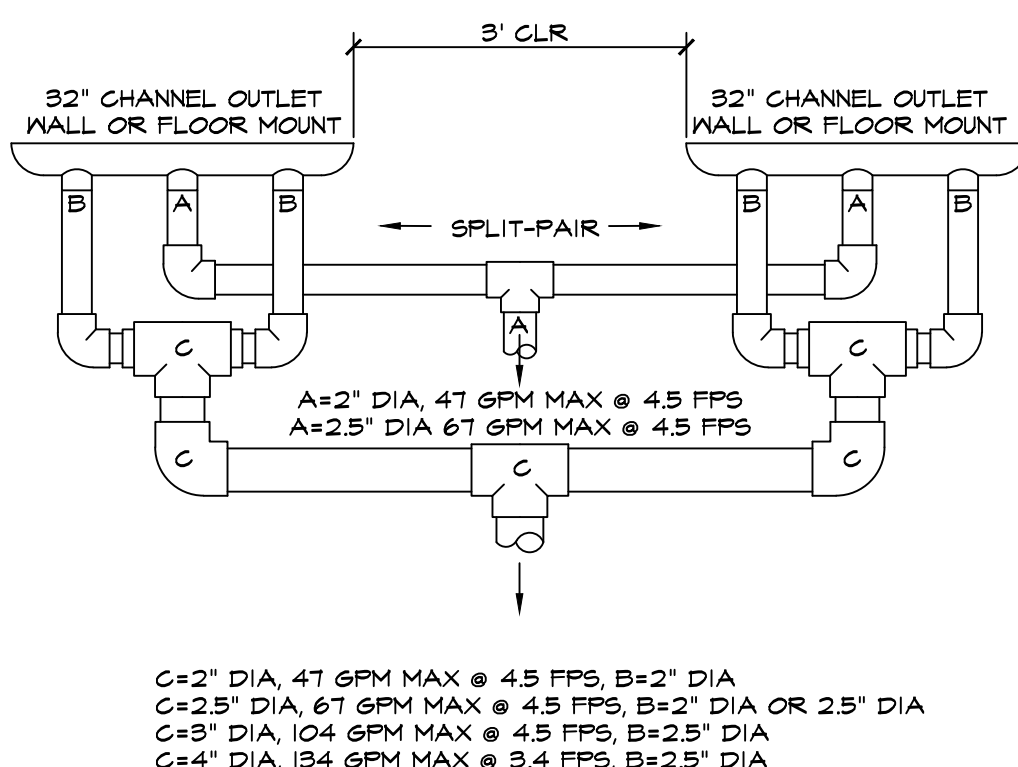
**2** MAIN DRAIN w/ HYDROSTAT  
SCALE: 1/2" = 1'-0" SECTION



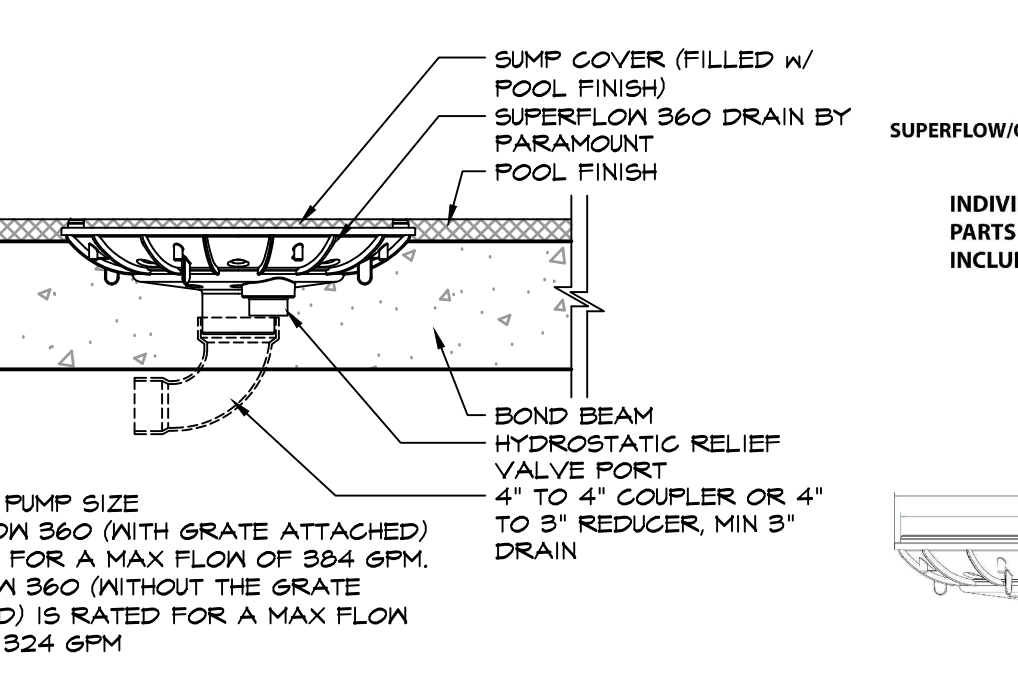
**9** VACUUM BREAKER  
SCALE: NTS SECTION



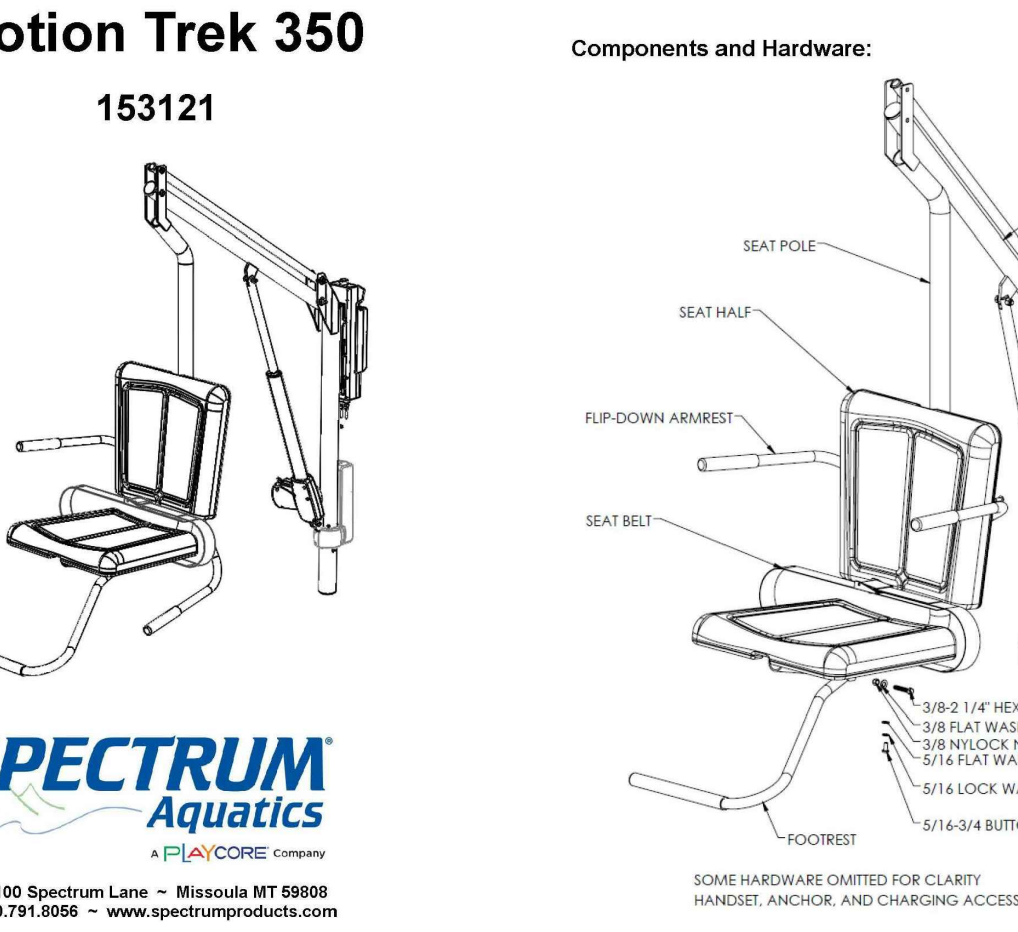
**13** ENTRY REEF HANDRAIL OPTION #1  
SCALE: 3/4" = 1'-0" SECTION



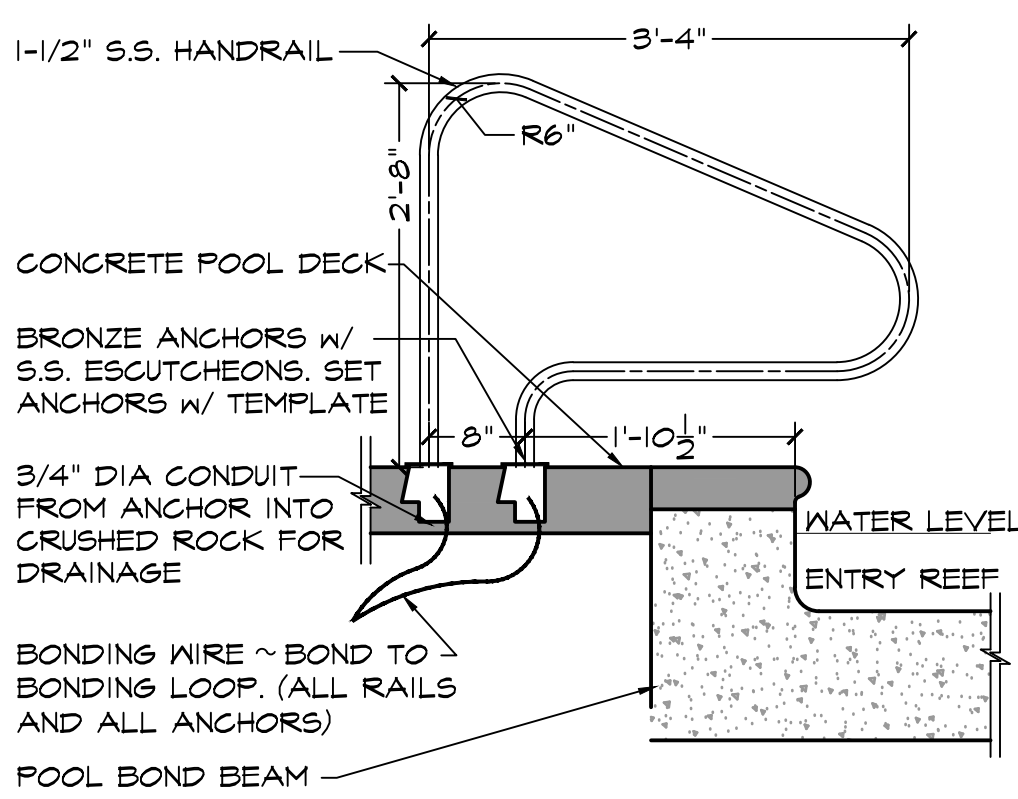
**3** CHANNEL OUTLET CONFIGURATION  
SCALE: NTS SECTION



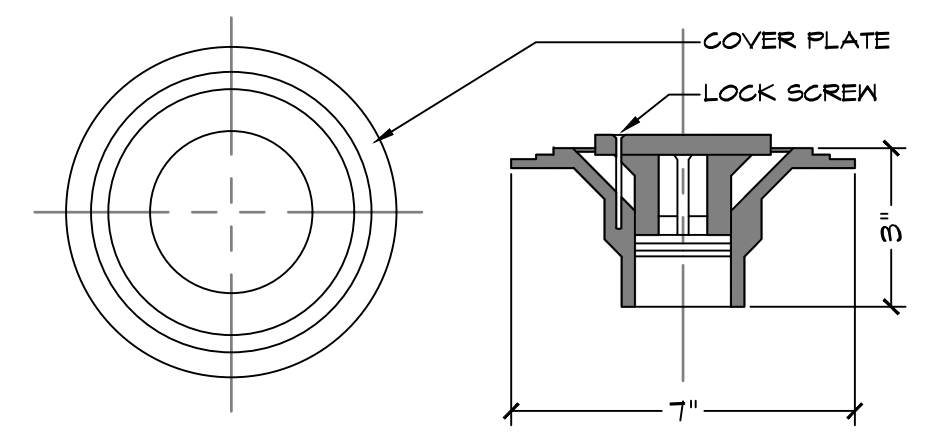
**6** PARAMOUNT SUPERFLOW 360 DRAIN  
SCALE: NTS SECTION



**10** ADA CHAIR LIFT BY SPECTRUM AQUATICS  
SCALE: N.T.S. SECTION

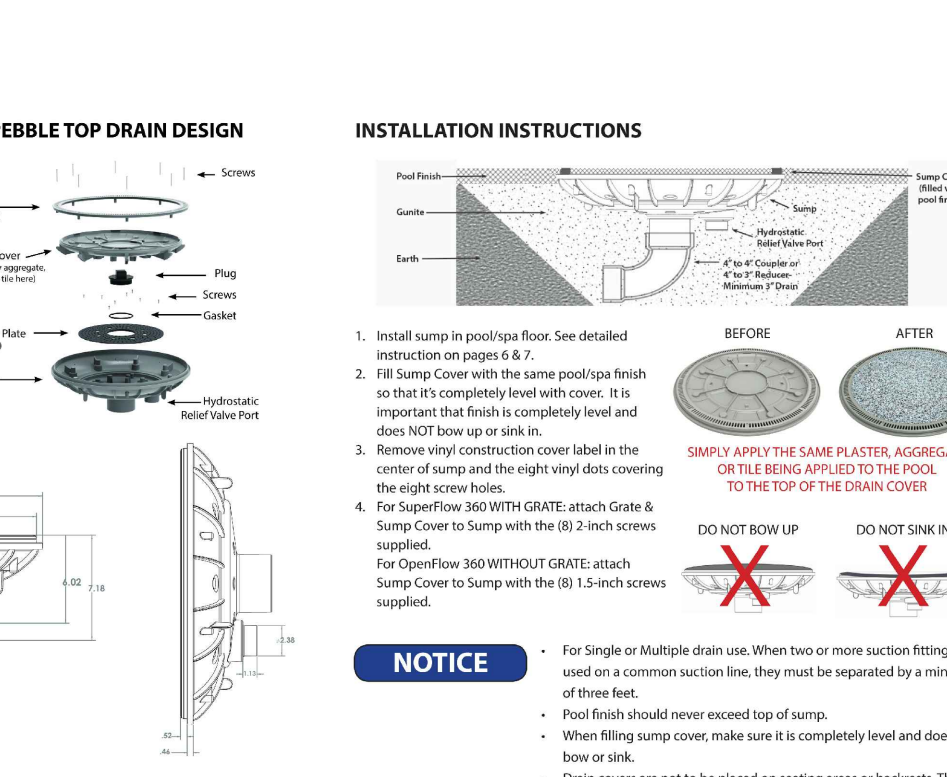


**14** ENTRY REEF HANDRAIL OPTION #2  
SCALE: 3/4" = 1'-0" SECTION

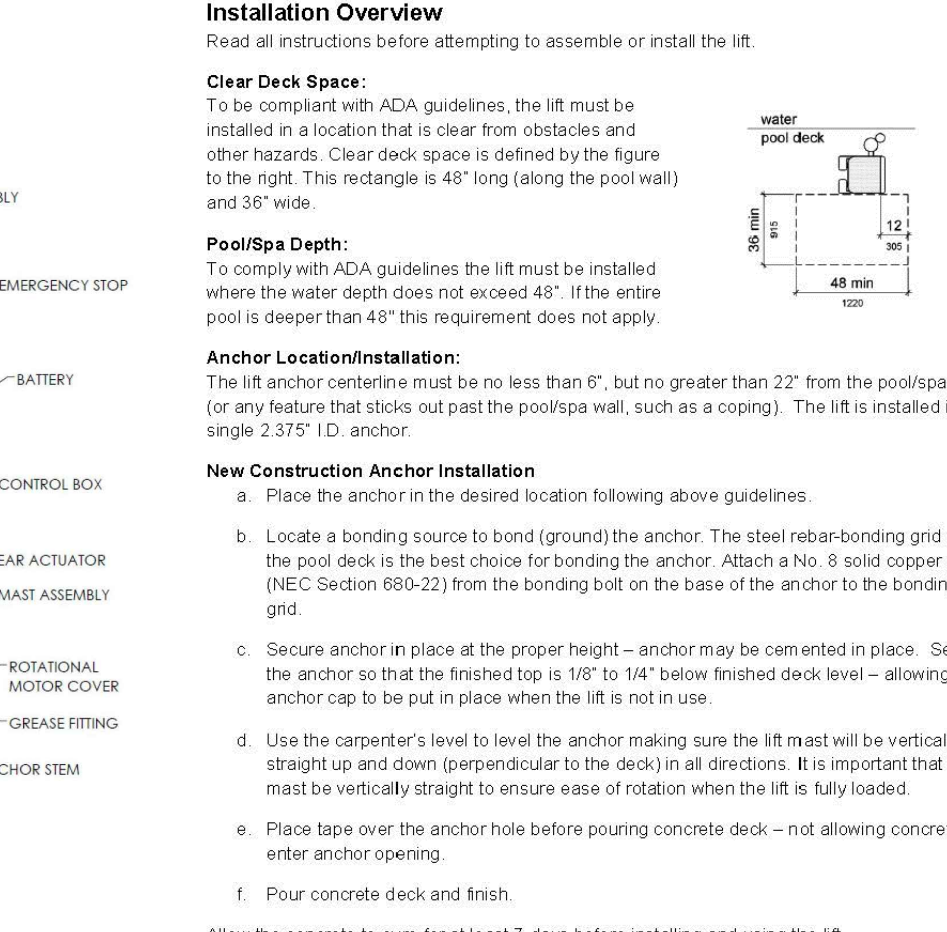


WARNING: USE OF THIS FITTING AS A SUCTION OUTLET IS HAZARDOUS, RISK OF HAIR OR BODY ENTRAPMENT, DROWNING OR DISEMPOWERMENT.  
DO NOT USE COVER ON ANY SUCTION OR OUTLET FITTING. USE ONLY AS AN EXACT REPLACEMENT COVER ON A FLOOR INLET FITTING.

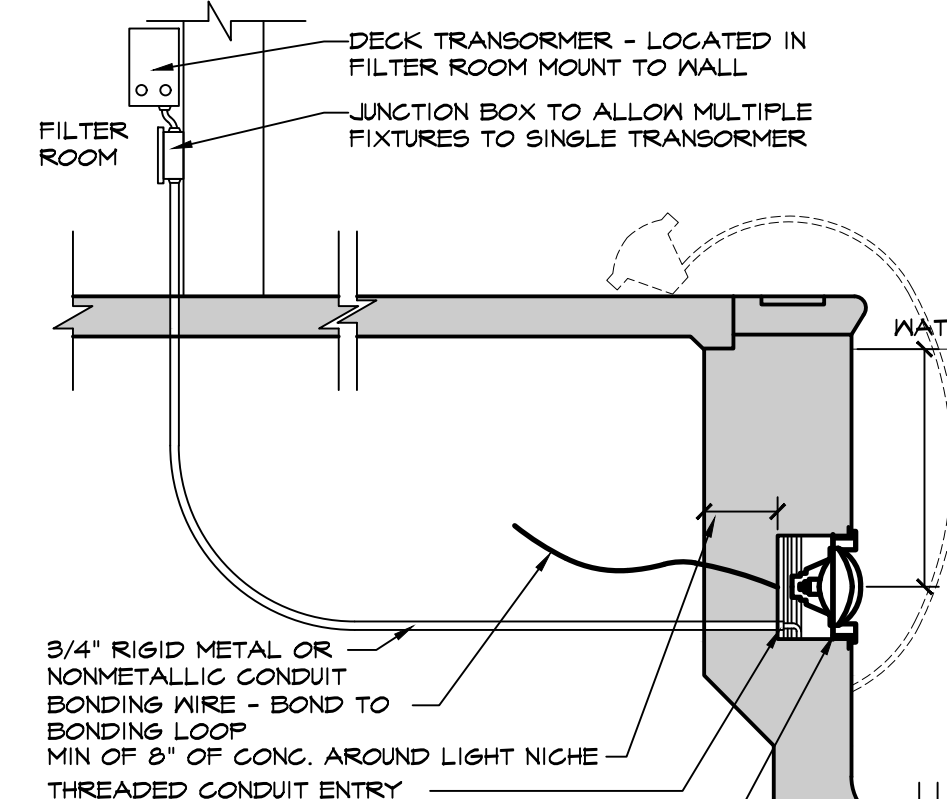
**4** SECTION OUTLET FITTING  
SCALE: NTS SECTION



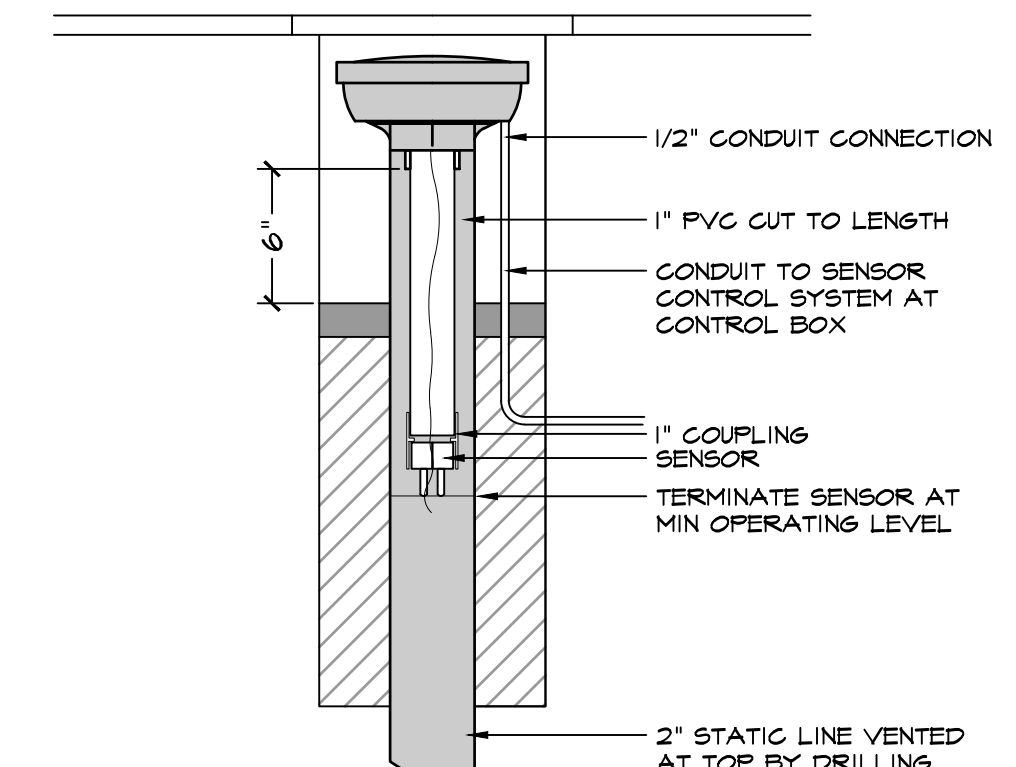
**6** PARAMOUNT SUPERFLOW 360 DRAIN  
SCALE: NTS SECTION



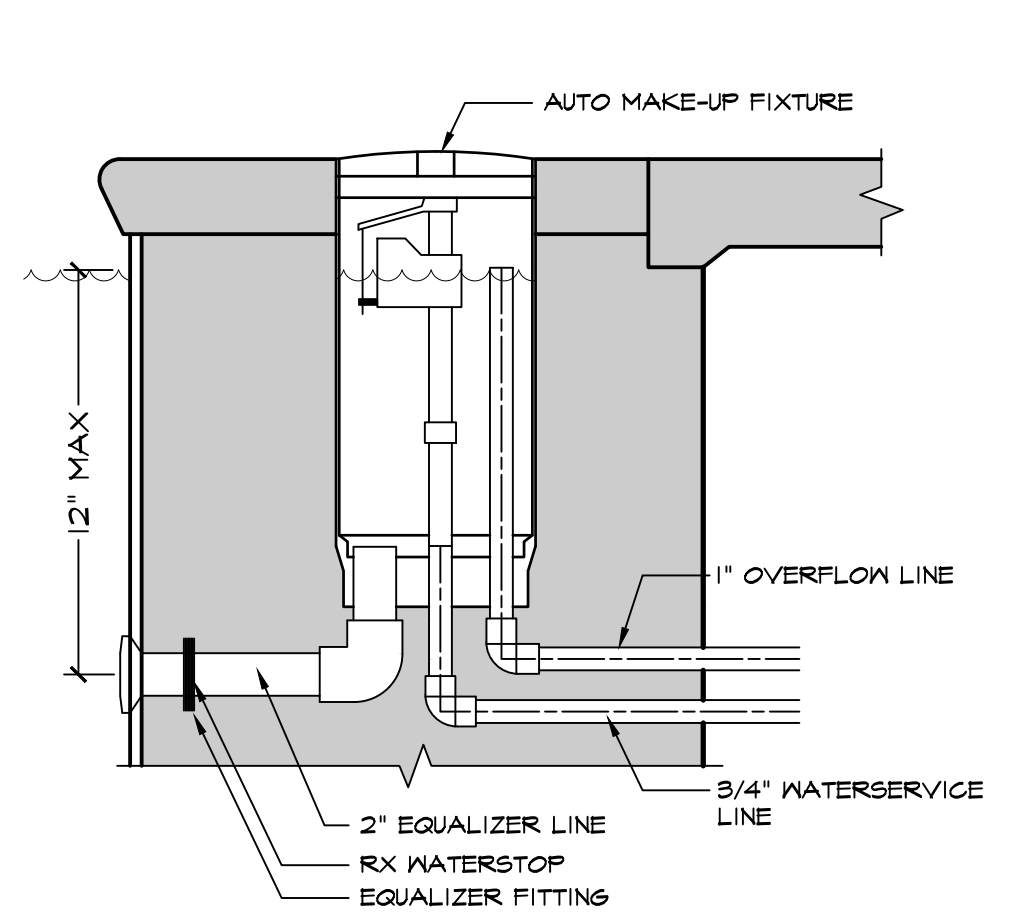
**10** ADA CHAIR LIFT BY SPECTRUM AQUATICS  
SCALE: N.T.S. SECTION



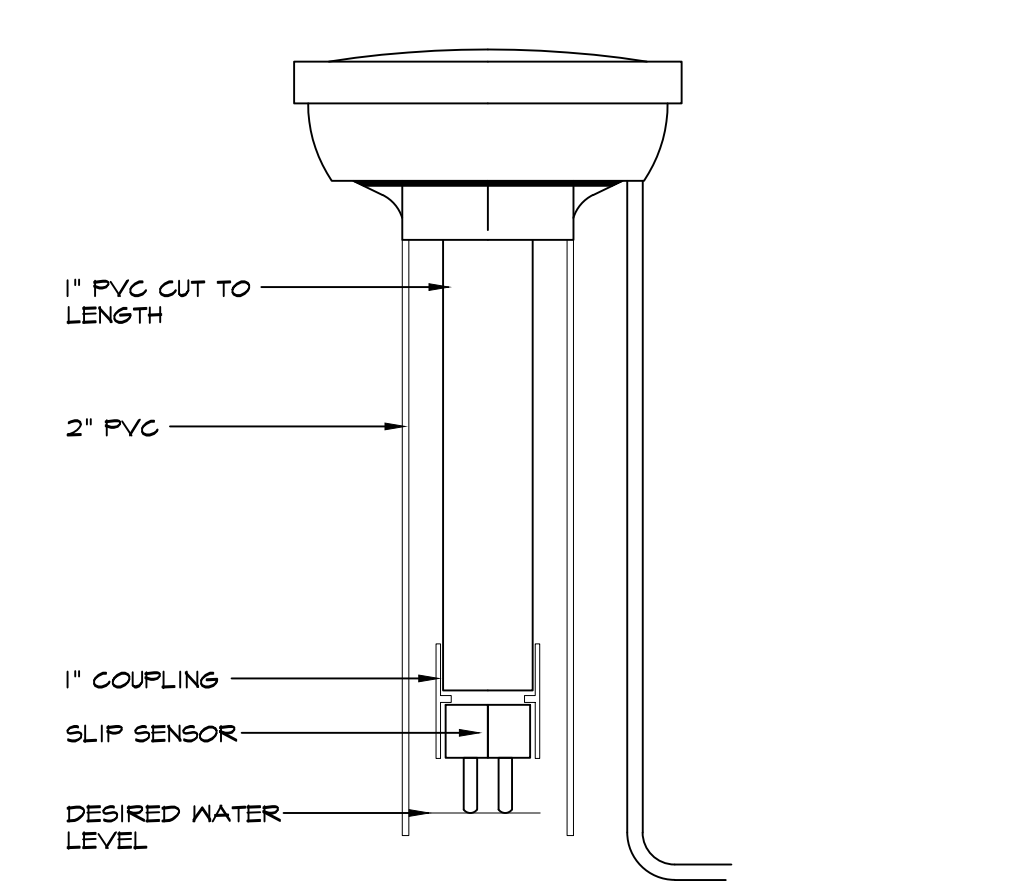
**15** UNDERWATER POOL LIGHT  
SCALE: 3/4" = 1'-0" SECTION



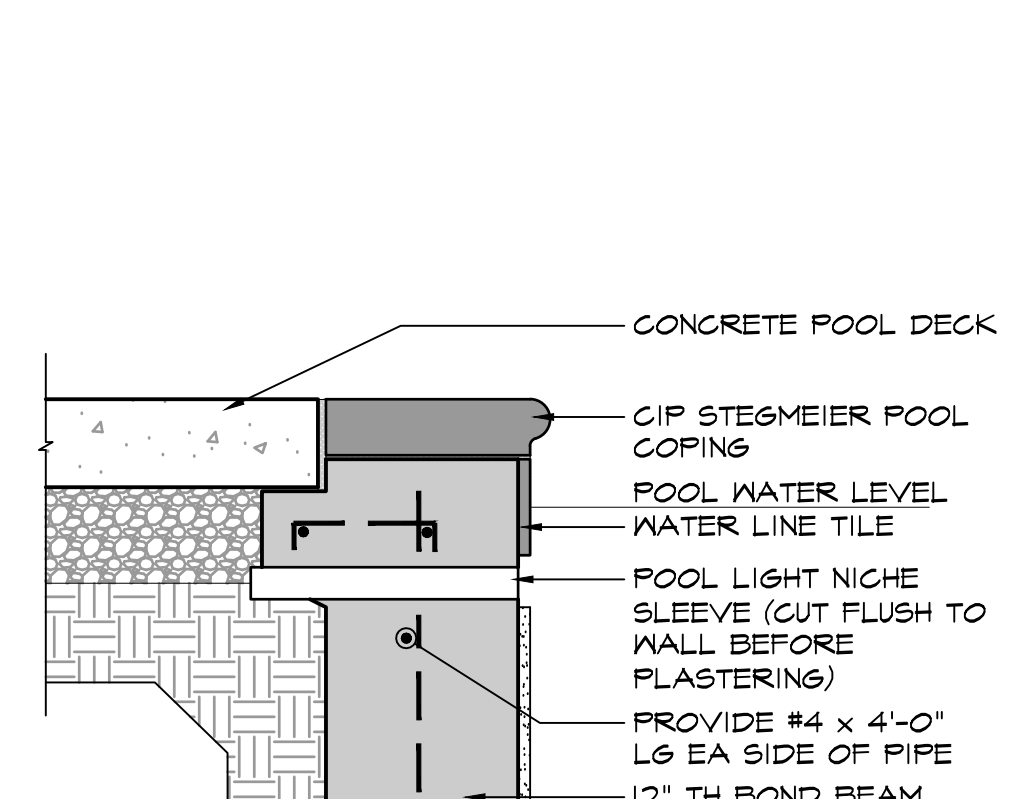
**5** DECK LID LEVELOR INSTALLATION  
SCALE: NTS SECTION



**7** WATER MAKE-UP DETAIL  
SCALE: 1" = 1'-0" SECTION



**11** SLIP SENSOR DETAIL  
SCALE: NTS SECTION



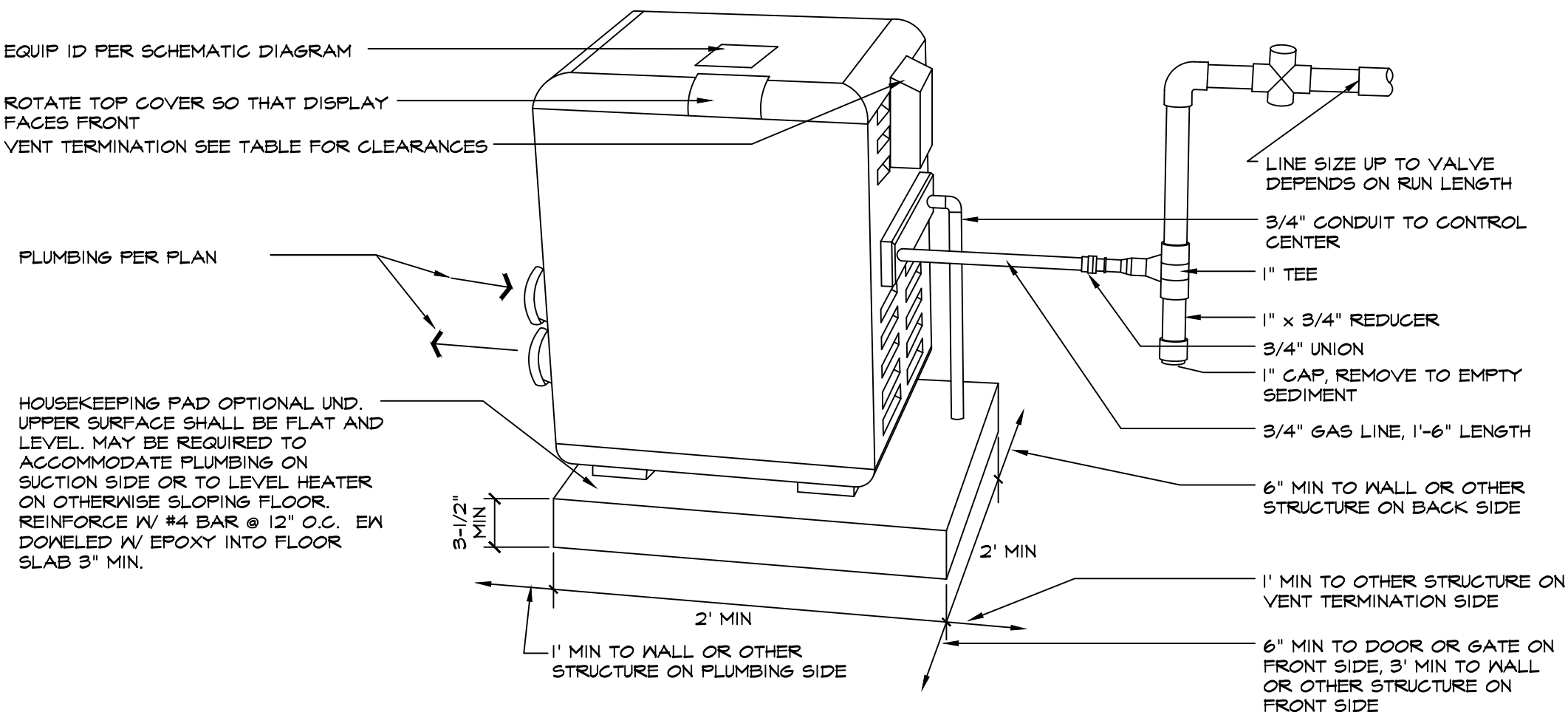
**16** TYPICAL POOL LIGHTS  
SCALE: 1" = 1'-0" SECTION



DETAIL NOTES:  
1. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.  
2. INSTALL BONDING PER NEC 680.26  
3. INSTALL PER LOCAL CODES. THIS MAY REQUIRE THE ADDITION OF A PRESSURE RELIEF VALVE NOT TO EXCEED 50 PSI

VENT TERMINATION CLEARANCES	
DESCRIPTION	MIN CLEARANCE DIM
VERTICAL THROUGH ROOF	2' (600MM) ABOVE ALL STRUCTURES WITHIN 10' (3,000MM)
VERTICAL TO UNDERSIDE OF ROOF OR DECK OVERHANG	3' (900MM)
CLEARANCE FROM WALLS	6" (150MM)
CLEARANCE FROM ANY OPENING INTO A BUILDING	4' (1,200MM)
CLEARANCE FROM ELECTRIC METERS, PANELS, GAS METERS, REGULATORS, AND RELIEF EQUIPMENT	4' (1,200MM)
CLEARANCE FROM PROPERTY LINE	1'-6" (450MM)
CLEARANCE FROM A/C OR HEAT PUMP	3' (900MM)
CLEARANCE ABOVE FINISHED GRADE AND NORMAL SNOW LEVEL	1' (300MM)

TYPE "B" DOUBLE-WALL VENT w/ TYPE "B" DOUBLE-WALL CONNECTOR IN FEET					
VENT SIZE	MODEL 175 HEIGHT MIN/MAX	MODEL 200 HEIGHT MIN/MAX	MODEL 250 HEIGHT MIN/MAX	MODEL 300 HEIGHT MIN/MAX	MODEL 350 HEIGHT MIN/MAX
6"	6' / 100'	6' / 100'	18' / 100'	30' / 100'	NOT REC.
7"	6' / 100'	6' / 100'	8' / 100'	10' / 100'	15' / 100'
8"	6' / 100'	6' / 100'	6' / 100'	6' / 100'	8' / 100'
9" & 10"	6' / 50'	6' / 50'	6' / 50'	6' / 100'	8' / 100'
TYPE "B" DOUBLE-WALL VENT w/ SINGLE WALL CONNECTOR IN FEET					
VENT SIZE	MODEL 175 HEIGHT MIN/MAX	MODEL 200 HEIGHT MIN/MAX	MODEL 250 HEIGHT MIN/MAX	MODEL 300 HEIGHT MIN/MAX	MODEL 350 HEIGHT MIN/MAX
6"	6' / 15'	6' / 15'	6' / 15'	NOT REC.	NOT REC.
7"	6' / 8'	6' / 8'	6' / 8'	10' / 20'	15' / 50'
8"	NOT REC.	NOT REC.	NOT REC.	6' / 20'	8' / 20'
9"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	6' / 6'
10"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	NOT REC.



### 3 POOL HEATER INSTALLATION

SCALE: NTS ILLUSTRATIVE VIEW

POLYETHYLENE (PE) GAS LINE BURIAL DEPTHS		
LOCATION	NORMAL SOIL	CONSOLIDATED ROCK
SERVICE LINES: PRIVATE PROPERTY	18"	18"
SERVICE LINES: UNDER STREETS, ROADS, AND DRIVEWAYS	24"	18"
TRANSMISSION LINES AND MAINS CLASS 1 LOCATION	30"	18"
TRANSMISSION LINES AND MAINS: CLASS 2, 3, AND 4 LOCATION	36"	24"
TRANSMISSION LINES AND MAINS: DRAINAGE DITCHES OF PUBLIC ROADS AND RAILROAD CROSSINGS	36"	24"
TRANSMISSION LINES AND MAINS: NAVIGABLE RIVERS, STREAMS OR HARBORS (MEASURED TOP OF PIPE TO NATURAL BOTTOM)	48"	24"

DETAIL NOTES:	DETAIL NOTES:
7. A HYDROSTATIC PRESSURE TEST SHALL HOLD MIN 20 PSI WITH ZERO DROP IN 72 HOURS. 8. PE 2406/2108 MOPE YELLOW PIPE BY CHARTER PLASTICS. 9. PROPANE MAX OPERATING PRESSURE IS 30 PSI @ 73.4°F	1. POLYETHYLENE PIPE SHALL CONFORM TO ASTM D2513-0SD STANDARD SPECIFICATION FOR THERMOPLASTIC GAS PRESSURE PIPE, TUBING, AND FITTINGS. 2. POLYETHYLENE PIPE DIMENSIONS SHALL BE BASED ON IRON PIPE SIZE STANDARDS INSTEAD OF COPPER TUBE SIZE PER TABLE BELOW 3. POLYETHYLENE COLOR SHALL BE YELLOW. 4. GAS PLUMBING SHALL BE INSTALLED WITH AN ELECTRICALLY CONTINUOUS INSULATED NUMBER 18 AWG COPPER TRACER WIRE TERMINATING ABOVE GRADE AT ALL ENDS OF THE GAS LINES. 5. PVC AND COPPER SHALL NOT BE USED FOR GAS PLUMBING. 6. APPROVED PLASTIC-TO-METAL TRANSITION FITTINGS SHALL BE USED TO RISE ABOVE GRADE.

POLYETHYLENE (PE) PIPE SPECIFICATIONS						
NOMINAL SIZE	OUTSIDE DIA (IPS STD)	MIN WALL THICKNESS	DIA RATIO (DR)	MIN BEND RADIUS	NET GAS MAX PRESS	MIN BEDDING DIMENSIONS
1/2"	0.830"	0.041"	9.3	18"	81 PSI	2"
3/4"	1.060"	0.046"	11	21"	68 PSI	2"
1"	1.315"	0.120"	11	27"	68 PSI	2"
1-1/4"	1.360"	0.151"	11	34"	68 PSI	2"
1-1/2"	1.400"	0.173"	11	38"	68 PSI	2"
2"	2.375"	0.216"	11	48"	68 PSI	2"
3"	3.500"	0.304"	11.5	84"	64 PSI	3"
4"	4.500"	0.333"	13.5	108"	54 PSI	4"
5"	6.625"	0.441"	13.5	160"	54 PSI	6"

### 6 POLYETHYLENE GAS PIPING

SCALE: NTS ILLUSTRATIVE VIEW

METAL FLUE COLLAR	PART NO.
4 x 6"	71101-0016
4 x 8"	71101-0011

1. SEE TABLE 10, TO DETERMINE ALLOWABLE VENT SIZES FOR YOUR HEATER.  
NOTICE: TABLE 10 IS FOR INSTALLATIONS IN WHICH THE TOTAL LATERAL VENT LENGTH (THAT IS HORIZONTAL DISTANCE FROM THE FLUE COLLAR TO THE COLLAR TO THE MAIN VERTICAL PORTION OF THE VENT) IS LESS THAN 1/2 THE TOTAL VENT HEIGHT (THE VERTICAL DISTANCE FROM THE FLUE COLLAR TO THE VENT TERMINATION) AND WHICH HAVE THREE OR LESS ELBOWS IN THE SYSTEM. FOR VENTING SYSTEMS WHICH DO NOT MEET THESE CONDITIONS, CONSULT THE NATIONAL FUEL GAS CODE, ANSI Z223.1 (U.S.).

READ 'VERTICAL VENTING - NEGATIVE PRESSURE' BEFORE USING THIS TABLE.

TABLE 10 - PERMITTED MINIMUM AND MAXIMUM VENT HEIGHTS BY SIZE AND HEATER MODEL

TYPE "B" DOUBLE-WALL VENT WITH TYPE "B" DOUBLE-WALL CONNECTOR IN FEET (METERS)					
VENT SIZE	MODEL 175 HEIGHT MIN/MAX	MODEL 200 HEIGHT MIN/MAX	MODEL 250 HEIGHT MIN/MAX	MODEL 300 HEIGHT MIN/MAX	MODEL 400 HEIGHT MIN/MAX
6"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	18' (5.5)/100' (30.5)	30' (9.1)/100' (30.5)	NOT REC.
7"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	8' (2.4)/100' (30.5)	10' (3.0)/100' (30.5)	15' (4.6)/100' (30.5)
8"	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)	8' (2.4)/100' (30.5)
9" AND 10"	6' (1.8)/50' (15.3)	6' (1.8)/50' (15.3)	6' (1.8)/50' (15.3)	6' (1.8)/100' (30.5)	6' (1.8)/100' (30.5)
TYPE "B" DOUBLE-WALL VENT WITH SINGLE-WALL CONNECTOR IN FEET (METERS)					
VENT SIZE	MODEL 175 HEIGHT MIN/MAX	MODEL 200 HEIGHT MIN/MAX	MODEL 250 HEIGHT MIN/MAX	MODEL 300 HEIGHT MIN/MAX	MODEL 400 HEIGHT MIN/MAX
6"	6' (1.8)/15' (4.6)	6' (1.8)/15' (4.6)	6' (1.8)/15' (4.6)	NOT REC.	NOT REC.
7"	6' (1.8)/8' (2.4)	6' (1.8)/8' (2.4)	6' (1.8)/8' (2.4)	10' (3.0)/20' (6)	15' (4.6)/50' (15.3)
8"	NOT REC.	NOT REC.	NOT REC.	6' (1.8)/20' (6)	8' (2.4)/20' (6)
9"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	6' (1.8)/6' (1.8)
10"	NOT REC.	NOT REC.	NOT REC.	NOT REC.	NOT REC.

### 1 PIPE/WALL SEAL (LINK SEAL)

SCALE: NTS ILLUSTRATIVE VIEW

DETAIL KEYNOTES				
1. CAST-IN-PLACE CONCRETE OR MASONRY WALL AS DETAILED ELSEWHERE				
2. PIPE AS SHOWN ON PLAN AND AS DETAILED ELSEWHERE				
3. PIPE SEAL PER "LINK-SEAL" TO SIZE SHOWN ON TABLE - INSTALL PER MFR. REQUIREMENTS				
PIPE SIZE (NORMAL)	OUTSIDE DIA (IPS O.D.)	CAST OR DRILLED CONC. HOLE INSIDE DIAM. (I.D.)	LINK SEAL PRODUCT #	NO. OF LINKS PER SEAL
1/2"	0.810"	2.0	LS-200	4
3/4"	1.050"	2.5	LS-215	4
1"	1.315"	3.0	LS-230	4
1-1/4"	1.660"	3.5	LS-215	4
1-1/2"	1.920"	3.5	LS-230	4
2-1/2"	2.375"	4.0	LS-230	4
3"	3.500"	4.0	LS-230	4
3-1/2"	4.000"	6.0	LS-230	6
4"	4.500"	6.0	LS-230	6
5"	5.563"	6.0	LS-425	6
6"	6.625"	10.0	LS-415	10
8"	8.625"	12.0	LS-415	12
10"	10.75"	14.0	LS-400	16
12"	12.00"	16.0	LS-325	16
14"	14.00"	16.0	LS-325	16
16"	16.00"	18.0	LS-325	16
18"	18.00"	20.0	LS-300	16
20"	20.00"	21.0	LS-300	16
22"	22.00"	21.0	LS-300	16
24"	24.00"	21.0	LS-300	16
26"	26.00"	21.0	LS-300	16
28"	28.00"	21.0	LS-300	16
30"	30.00"	21.0	LS-300	16
32"	32.00"	21.0	LS-300	16
34"	34.00"	21.0	LS-300	16
36"	36.00"	41.0	LS-500	30

### 4 PIPE/WALL SEAL (LINK SEAL)

SCALE: NTS ILLUSTRATIVE VIEW

MAX FLOW RATES (PER OUTLET) MOUNTING POSITIONS (xxx=COLOR SUFFIX)					
MODEL	32CDLTxxx (AND 32CDLTFRxxx, 32CDLTVxxx)	32CDAVxxx (AND 32CDAVFRxxx, 32CDAVVxxx, 32CDVAGxxx)	32PDxxx (MIN. 2" PIPE)	32CDBTxxx, 32CDBTFRxxx	32CDPHxxx (AND 32CDPHFRxxx, 32CDPHVxxx, 32CDPHSxxx) (MIN 2" PIPE)
FLOOR	316 GPM @ 3.9 FPS	146 GPM @ 1.3 FPS	236 GPM @ 3.4 FPS	120 GPM @ 1.2 FPS	120 GPM @ 1.2 FPS
WALL	208 GPM @ 2.6 FPS	142 GPM @ 1.2 FPS	136 GPM @ 1.9 FPS	N.A.	N.A.

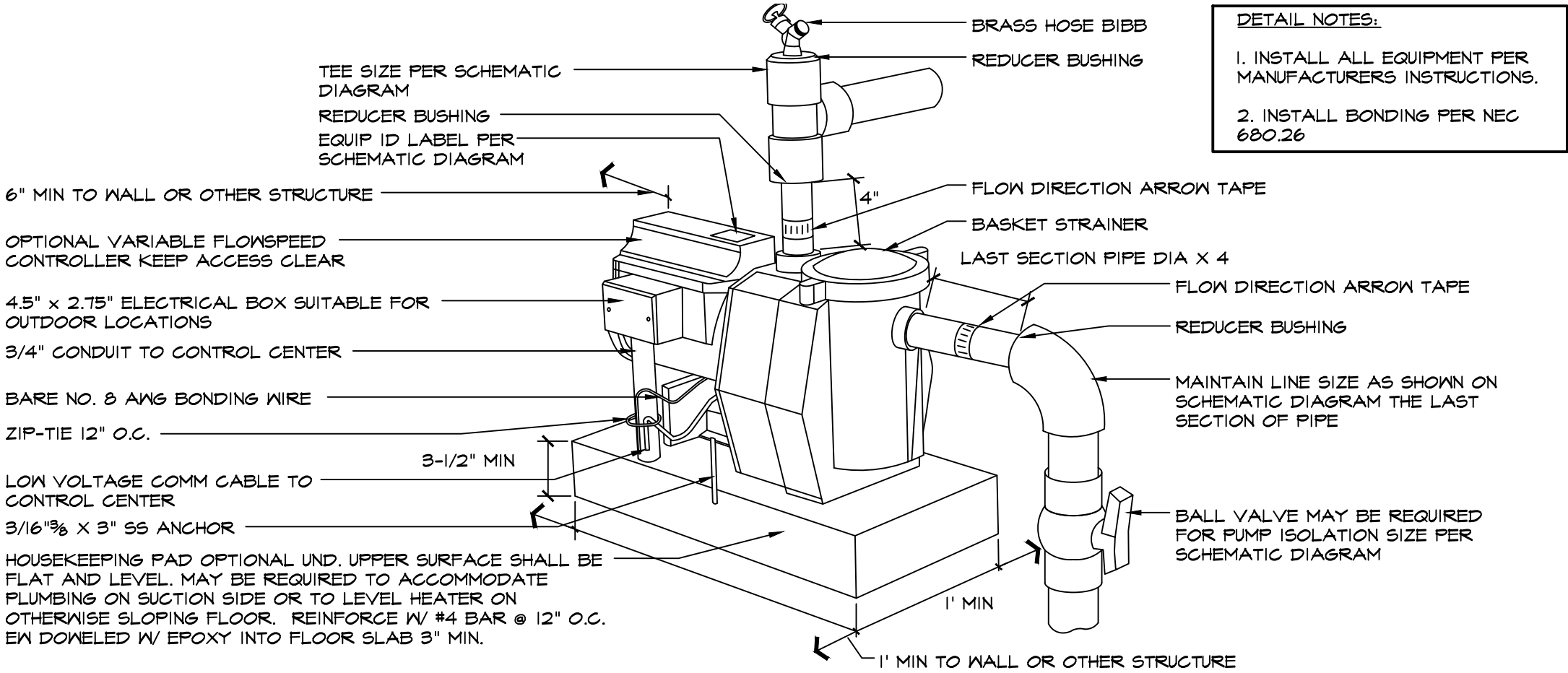
ACCEPTABLE PIPE SIZE FOR MAXIMUM RECOMMENDED SYSTEM FLOW RATE PER APSP-7 (6FEET/SECOND IN THE BRANCH LINE)				
PIPE SIZE	1 1/2"	2"	2 1/2"	3"
FLOW RATE IN GPM	45	80	110	160

WATER VELOCITY AND FLOW RATES  
THE MAX WATER VELOCITY THROUGH DRAIN COVERS IS LIMITED BY LOCAL REGULATIONS. FOR EXAMPLE SOME STATE HEALTH DEPARTMENTS LIMIT THE VELOCITY THROUGH PUBLIC DRAIN COVERS TO 15" PER SECOND. THIS VELOCITY IS LOWER THAN THE FLOW RATINGS PROVIDED BY THE ANSI/APSP-16 2011 CERTIFICATION. THEREFORE THE LOCAL LIMIT APPLIES NAD MUST BE FOLLOWED. NEVER EXCEED THE FLOW RATINGS LISTED ON THE COVER EVEN IF THE LOCAL CODE DOES NOT PROVIDE A VELOCITY LIMIT.

PIPING-GENERAL  
FOR NEW INSTALLATIONS, THE PIPING BETWEEN DRAINS MUST BE SIZED TO LIMIT THE VELOCITY TO 6 FEET PER SECOND. THIS LIMIT APPLIES TO THE BRANCH PIPING AND ALL FITTINGS BETWEEN MULTIPLE OUTLETS AND THE TREE LEADING BACK TO THE PUMP. IF CODE REQUIRES A LOWER WATER VELOCITY, COMPLY WITH THE CODE. SEE THE CHART ABOVE FOR INFORMATION ON PIPE SIZE FLOW RATINGS AT 6 FEET PER SECOND.

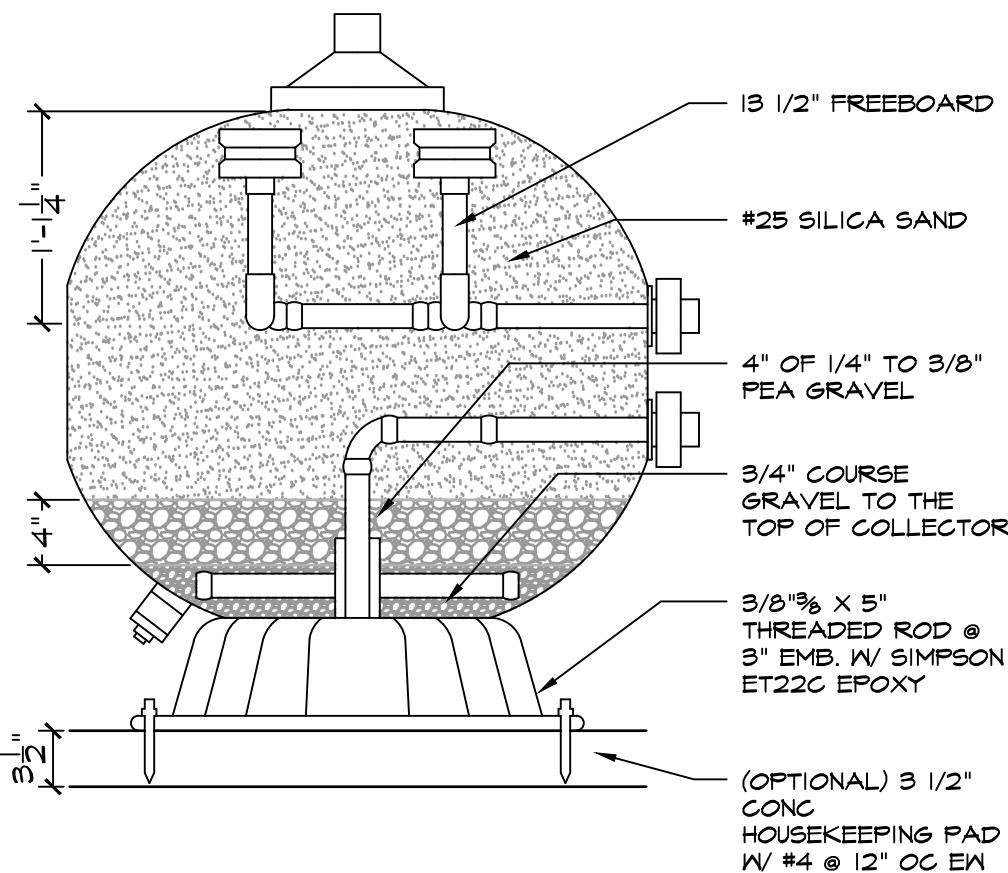
### 5 GENERAL PIPING NOTES

SCALE: NTS ILLUSTRATIVE VIEW



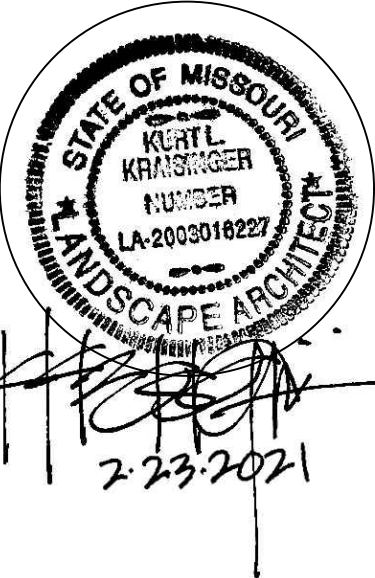
### 7 POOL PUMP INSTALLATION

SCALE: NTS ILLUSTRATIVE VIEW



### 2 POOL FILTER INSTALLATION

SCALE: NTS SECTION



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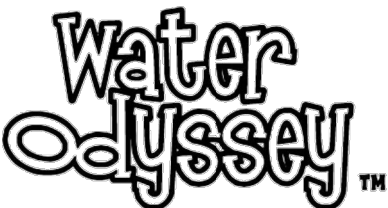
POOL DETAILS

W106



**Model Number:** W007-F  
**Shaft:** Straight 6" diameter type 304 stainless steel with machined type 304 base plate.  
**Dome:** Heavy-duty FRP (fiber reinforced polyester).  
**Anchor Base:** Type 304 stainless steel machined to mate with shaft base plate with grounding connection and 2" FPT inlet. Supplied with 4, 3/4" x 12" x 3" anchor bolts with two leveling nuts and washers per bolt and wood pour template.  
**Gasket:** 70 durometer EPDM o-ring.  
**Fasteners:** Tamper-resistant 18-8 stainless steel.  
**Finish:** Textured elastomeric urethane with a UV and chlorine resistant sealer coat.  
**Color:** (Specify red, dark blue, light blue, yellow, green, orange, or purple.)

- ☐ **Wireless Activator Button (-SW)**  
Transmitter: Solid state with encoded signal and integral omni-directional antenna.  
Activator Power: 3 VDC lithium battery (CR2477).
- ☐ **Wired Activator Button (-ST)**  
Activator Switch: 12 VDC.  
Activator Cord: 150' of #18/2 type STOW, minimum 3/4" conduit recommended.
- ☐ **Hand Wheel (-HW):** Stainless steel coated with heavy-duty aliphatic urethane.



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03-15-11

SCALE: NTS CUT SHEET  
Specifications

**Model Number:** W009  
**Shaft:** 4" type 304 stainless steel pipe.  
**Base Plate:** Type 304 stainless steel.  
**Anchors:** (4) stainless steel concrete anchors, supplied.  
**Finish:** Textured elastomeric urethane with a UV and chlorine resistant sealer coat.  
**Color:** Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple.  
**Fasteners:** Tamper-resistant type 18/8 stainless steel.  
**Activator Housing:** Machined from solid PVC stock.  
**Activator Housing Color:** Select from Red, Light Blue, Yellow, Green, Dark Blue, Orange, or Purple.  
**Activator Cord:** 150' of 18/3 type SJTOW submersible cable pre-wired to activator button, supplied.



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SCALE: NTS CUT SHEET

**Model Number:** W088

**Interactive Water Effects:** Shall be twin directable highly aerated sprays of water. Shooter shall turn off automatically when not in use.

**Shaft:** Straight 2" type 304 stainless steel pipe with machined type 304 base plate.

**Elbow:** 2" type 304 stainless steel.

**Housing:** Fabricated of 304 stainless steel.

**Joints:** Precision machined Delrin/low flow control joints adjustable for 45°-360° directional flow.

**Anchor Base:** Type 304 stainless steel machined to mate with shaft base plate including ground connection and 2" FPT inlet. Supplied with (4) 3/8" x 12" x 2" anchor bolts with two leveling nuts and washers per bolt and wood pour template.

**Gasket:** 70 durometer EPDM o-ring.

**Fasteners:** Tamper-resistant 18/8 stainless steel.

**Finish:** Textured elastomeric urethane with a UV and chlorine resistant sealer coat.

**Nozzles:** Machined brass foam nozzles.



**WATER ODYSSEY**  
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8804

SCALE: NTS CUT SHEET



**Model No:** CTP-100-XX (See Chart).  
**Housing:** NEMA 4X with lockable hasp.  
**Input Voltage:** 120VAC/60 Hertz, 20 Amps.  
**Wired Activator Input:** 12VDC, Maximum qty 2.  
**Output Voltage:** 12VDC/60 Hertz, 5 Amps continuous. (To Solenoid Valve)  
**Power Cord:** 6 foot, 16-3 type SJT with grounded plug.  
**Cord Seal:** PVC compression seal fittings with neoprene gland for 16-2 solenoid valve cables.  
**Time Clock:** Integral, electronic, 7 day, 24 hour.  
**Time Delay Relay:** Electronic, 24 hour adjustment.  
**TDR Adjustment:** 1 second up to 24 hour with fine adjustment.  
**Supplies:** ETI and Underwriters' Laboratories Listed.  
**Solenoid Valves:** Die cast bronze with stainless steel hardware, DIN connector with 15' cord, and 12VDC UL Recognized solenoid.

Notes:

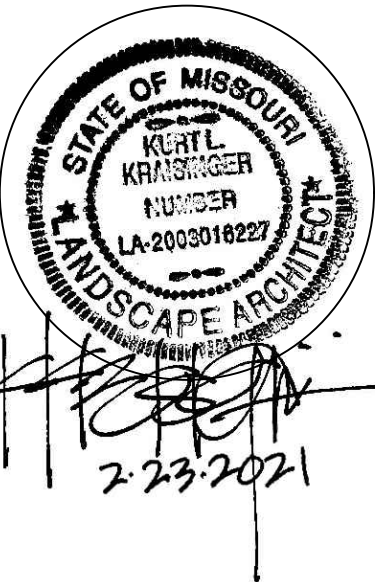
1. Conduit and wire by installer.
2. All field wiring to be compliant with NEC and local codes.  
Field output wire to be stranded copper, minimum rated 60°C.

Model Number	Valve Size	Max. Flow
CTP-100-10	1"	25
CTP-100-15	1-1/2"	50
CTP-100-20	2"	100

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CTP-100-SERIES

SCALE: NTS CUT SHEET



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## POOL DETAILS

W107