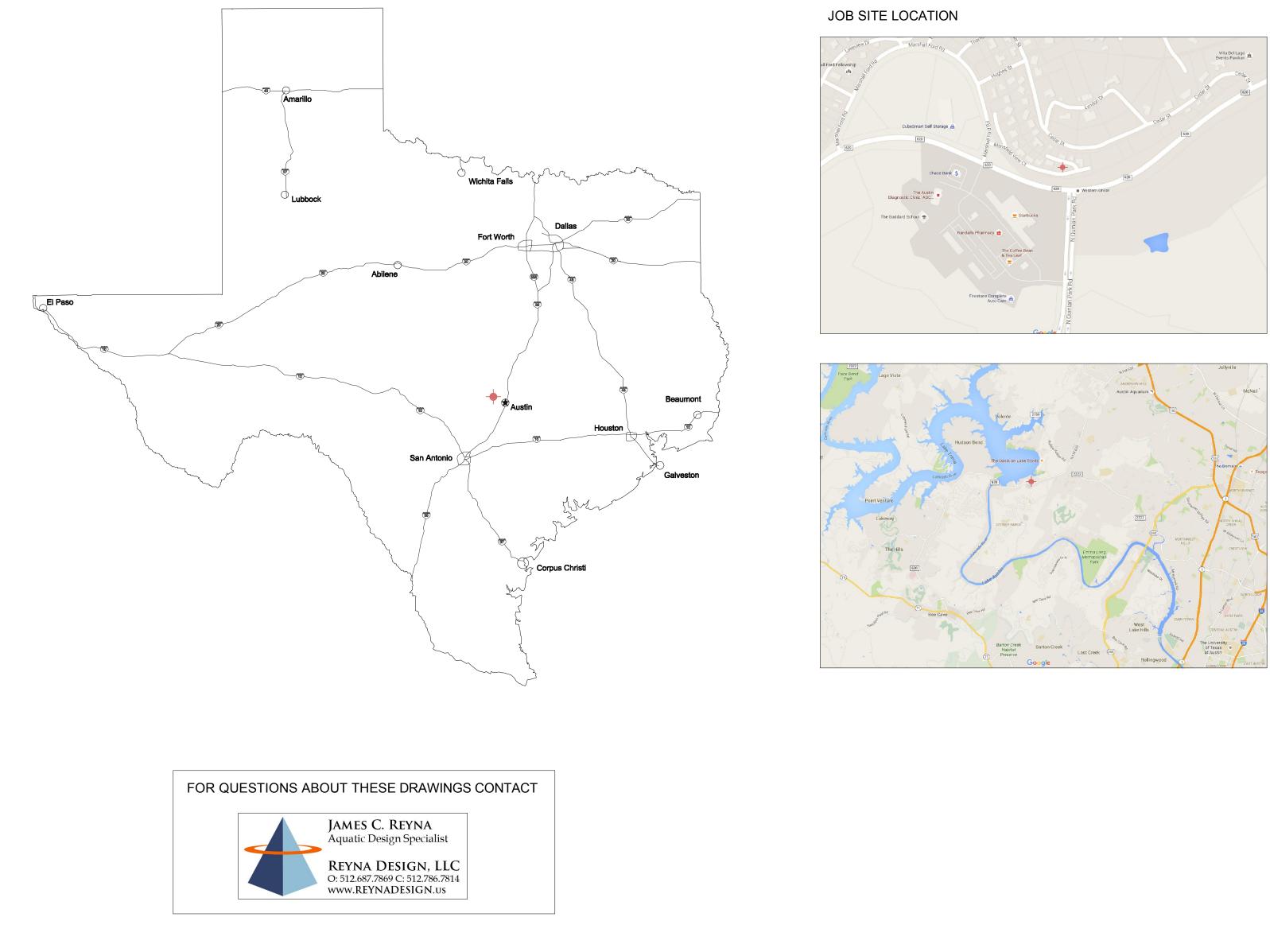
# MANSFIELD ESTATES SWIMMING POOL AND BATH HOUSE DRAWINGS

MANSFIELD ESTATES HOA 5134 MANSFIELD VIEW CT. AUSTIN, TX 78732 LOT 153 HUGHES PARK LAKE SUB. 2 GEO# 0150400101



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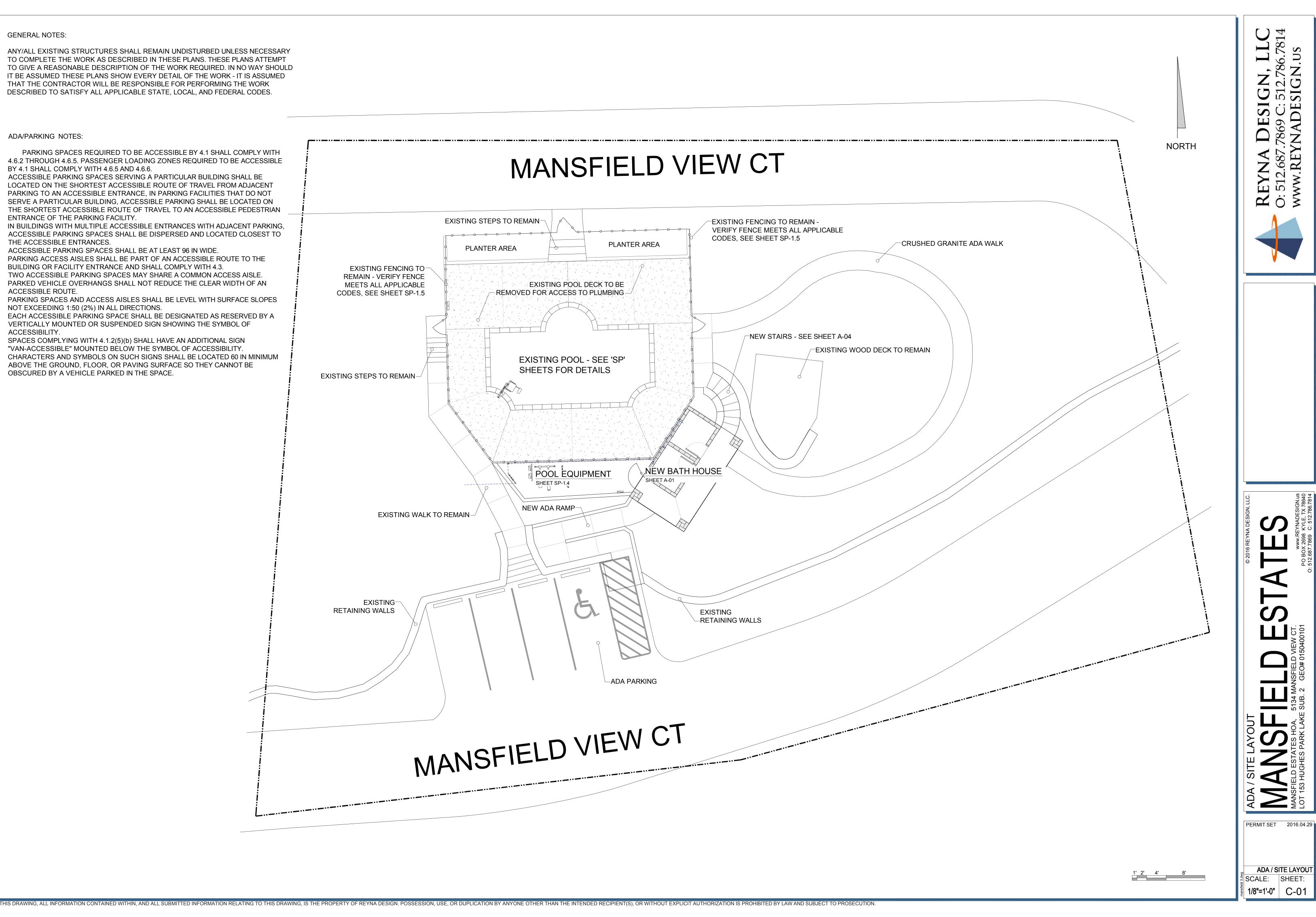
| SHEE  | TS   |
|-------|--|
| COVER | COVER SHEET, SITE MAP AND LEGEND               |
| C-01  | OVERALL SITE LAYOUT AND NOTES                  |
| C-02  | OVERALL UTILITIES LAYOUT AND NOTES             |
| A-01  | BATH HOUSE DIMENSIONS AND LAYOUT               |
| A-02  | BATH HOUSE ELEVATIONS                          |
| S-01  | BATH HOUSE STRUCTURAL LAYOUT                   |
| S-02  | BATH HOUSE AND SITE STRUCTURAL DETAILS         |
| EP-01 | BATH HOUSE ELECTRICAL AND PLUMBING LAYOUT      |
| SP-N1 | POOL CONSTRUCTION NOTES, SHEETS, SPECIFICATION |
| SP-N2 | POOL SPECIFICATIONS SHEETS                     |
| SP-01 | POOL LAYOUT AND DIMENSIONS                     |
| SP-02 | POOL PLUMBING AND ELECTRICAL LAYOUT            |
| SP-03 | POOL SECTIONS AND SHOTCRETE DETAILS            |
| SP-04 | POOL EQUIPMENT LAYOUT                          |
| SP-05 | POOL DECK AND ENCLOSURE LAYOUT/DETAILS         |
|       |  |

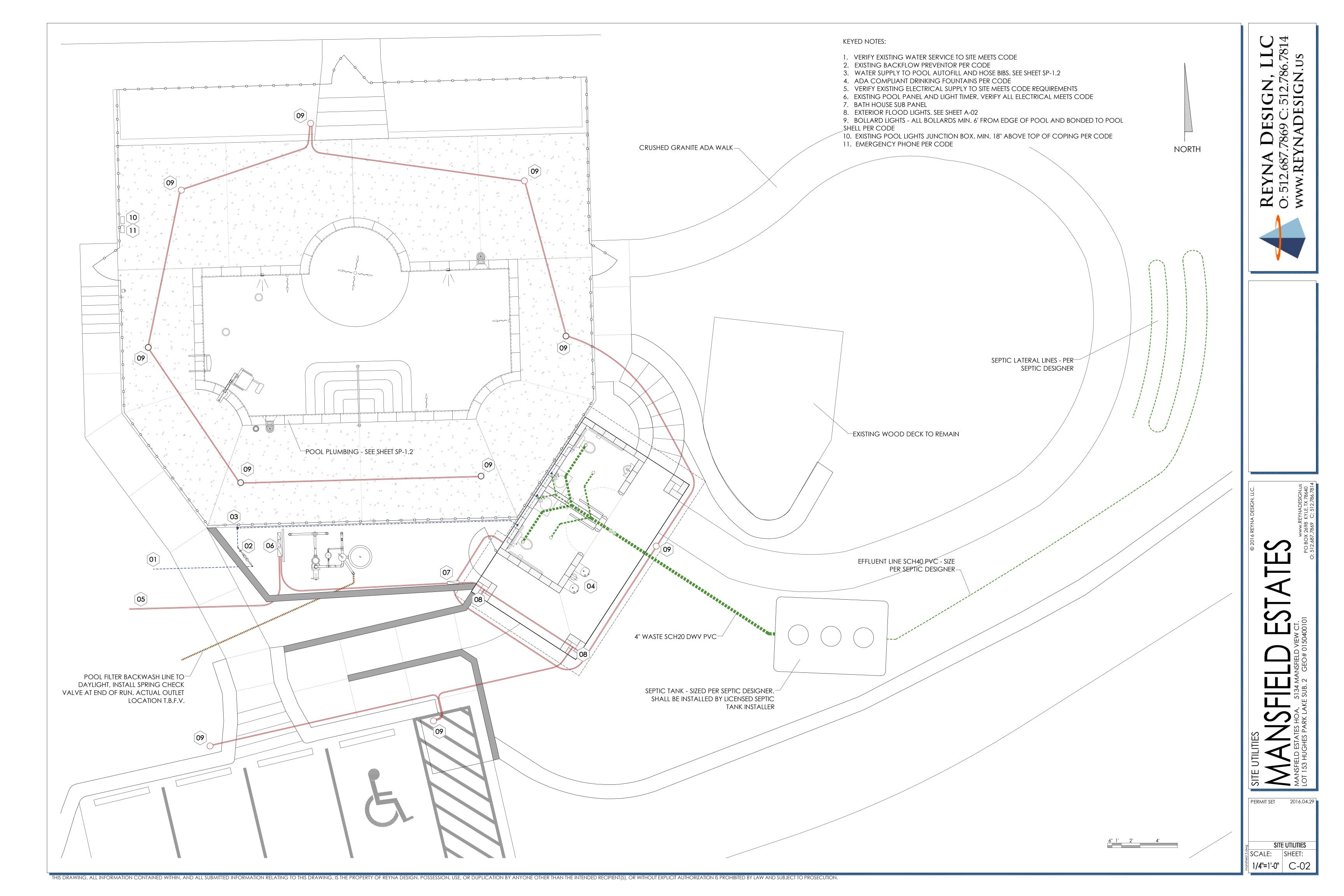
| LEGEND   |                       |
|--|-----------------------|
| LINE TYPES:<br>ELECTRICAL - BOND WIRE<br>ELECTRICAL CONDUIT<br>POOL WALL (SHOTCRETE)<br>STEEL REINFORCEMENT (REBAR)<br>POOL SUCTION LINES<br>POOL RETURN LINES<br>WATER LINE |                       |
| SYMBOLS:   |                       |
| SKIMMER  |                       |
| RETURN FITTING   |                       |
| WALL LIGHT   |                       |
| ANTI-ENTRAPMENT MAIN DRAIN   |                       |
| AUTOFILL   |                       |
| HANDRAIL   | ¢>                    |
| 2"x2" STEP / BENCH TILE  |                       |
| 6"x6" DEPTH AND "NO DIVING" MARKERS  | 3 FT 6 IN NO DIVING 🐼 |
| SECTION LINE AND ARROW   | 1<br>SP-01            |
| MATERIAL LABEL   | 01                    |
|  |                       |



NS

ANY/ALL EXISTING STRUCTURES SHALL REMAIN UNDISTURBED UNLESS NECESSARY TO COMPLETE THE WORK AS DESCRIBED IN THESE PLANS. THESE PLANS ATTEMPT TO GIVE A REASONABLE DESCRIPTION OF THE WORK REQUIRED. IN NO WAY SHOULD IT BE ASSUMED THESE PLANS SHOW EVERY DETAIL OF THE WORK - IT IS ASSUMED THAT THE CONTRACTOR WILL BE RESPONSIBLE FOR PERFORMING THE WORK

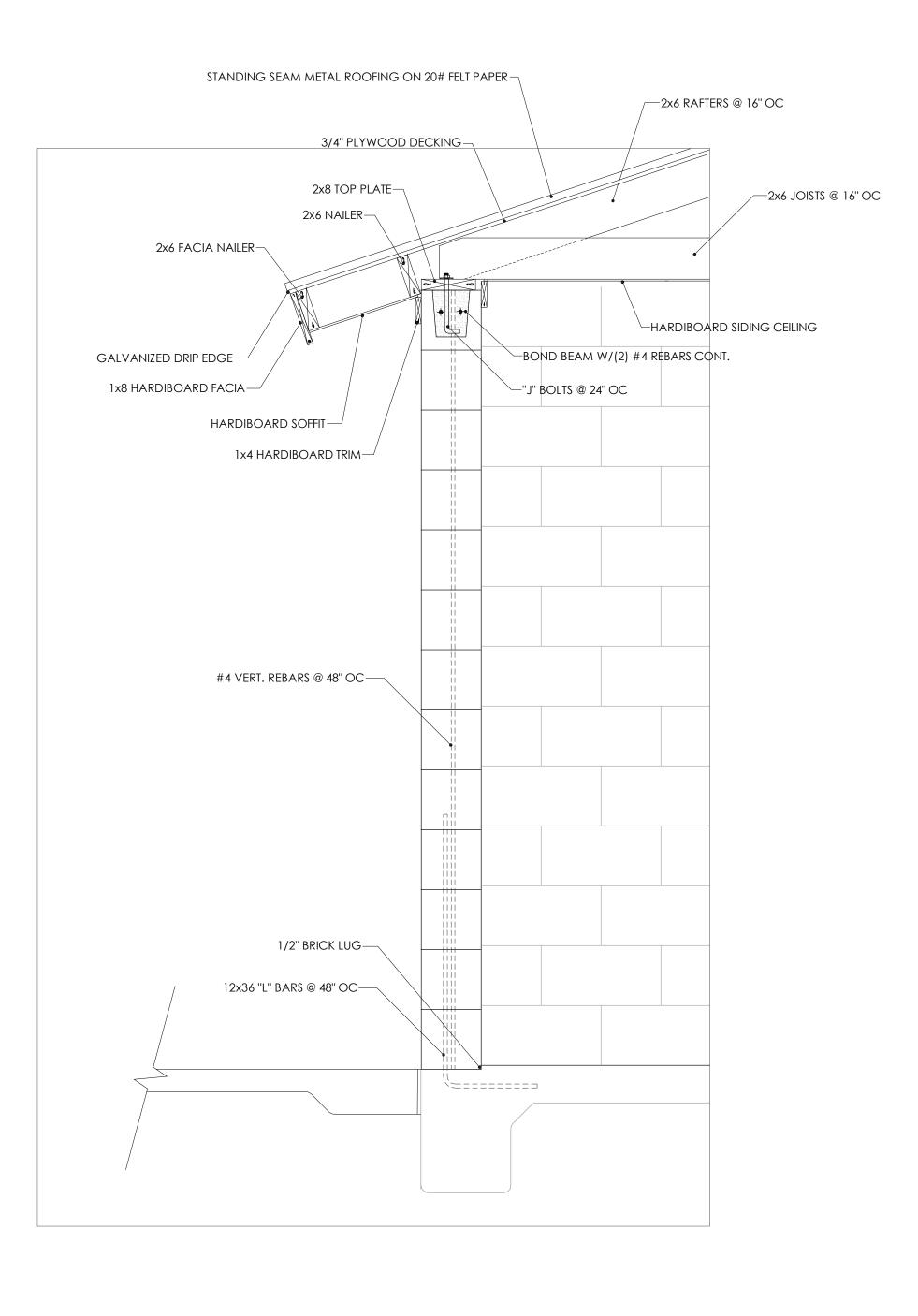


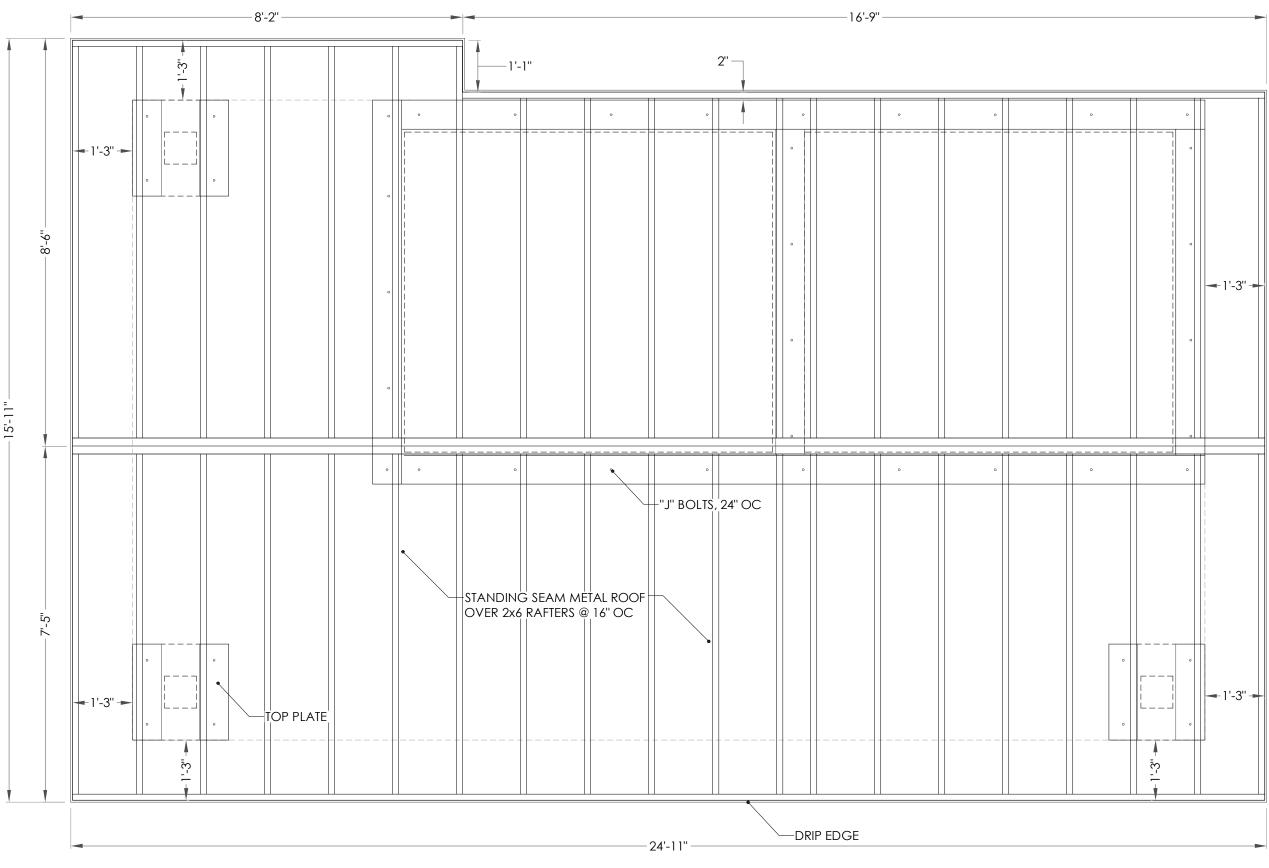


## NOTES:

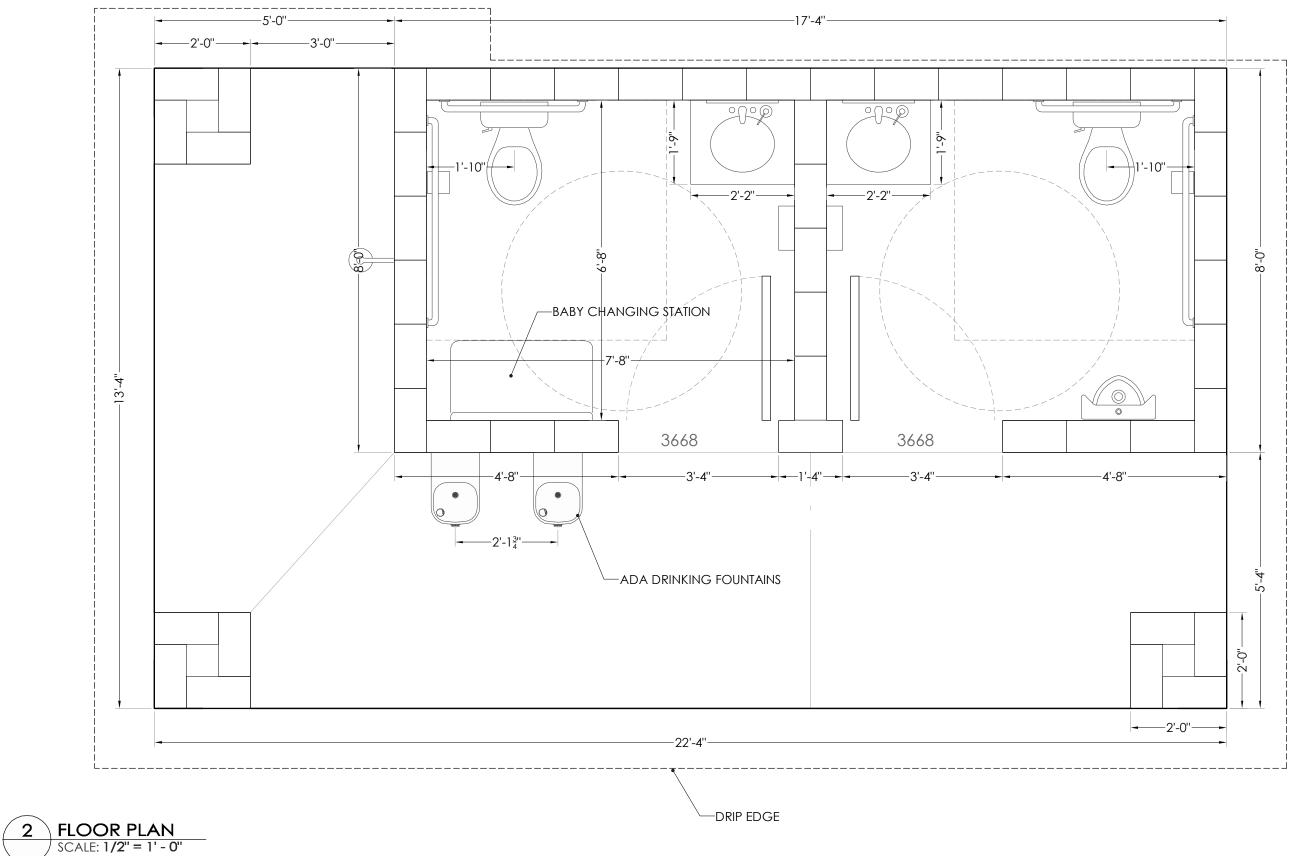
SPLIT FACE CMU BY FEATHERLITE OR EQUAL, OWNER TO SELECT COLORS. PROVIDE COLOR SAMPLES FOR SELECTION INTERIOR WALLS TO BE PAINTED WITH EPOXY, BLOCK-FILLER PAINT, OWNER TO SELECT COLORS

CMU BLOCK WALLS TO BE GROUTED EVERY OTHER CELL W/#4 VERT. REBARS EVERY FOURTH CELL AND IN ALL CORNERS BOND BEAM @ TOW ( OR AT 8'-0'') W/(2) #4 REBARS CONT.

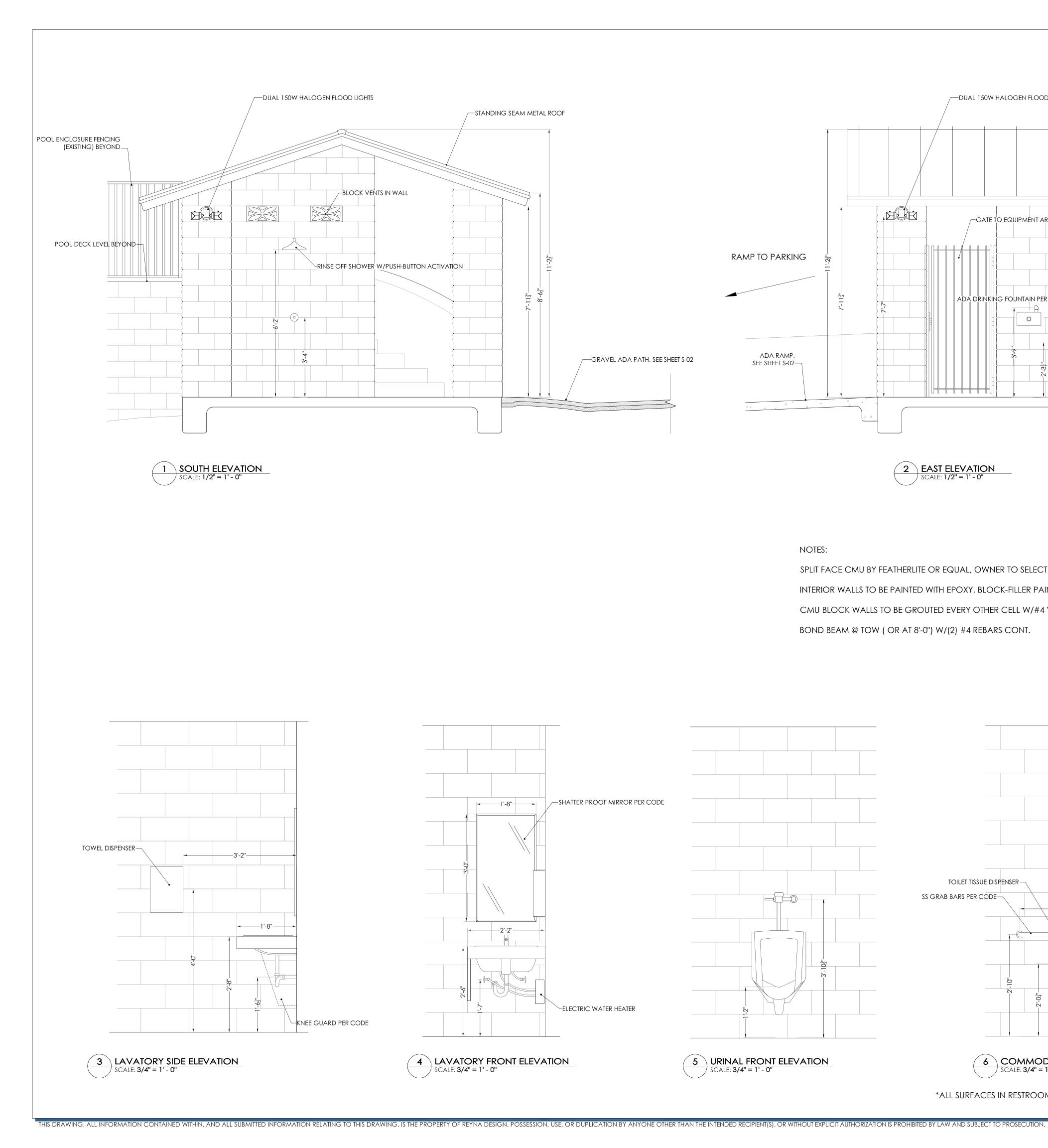


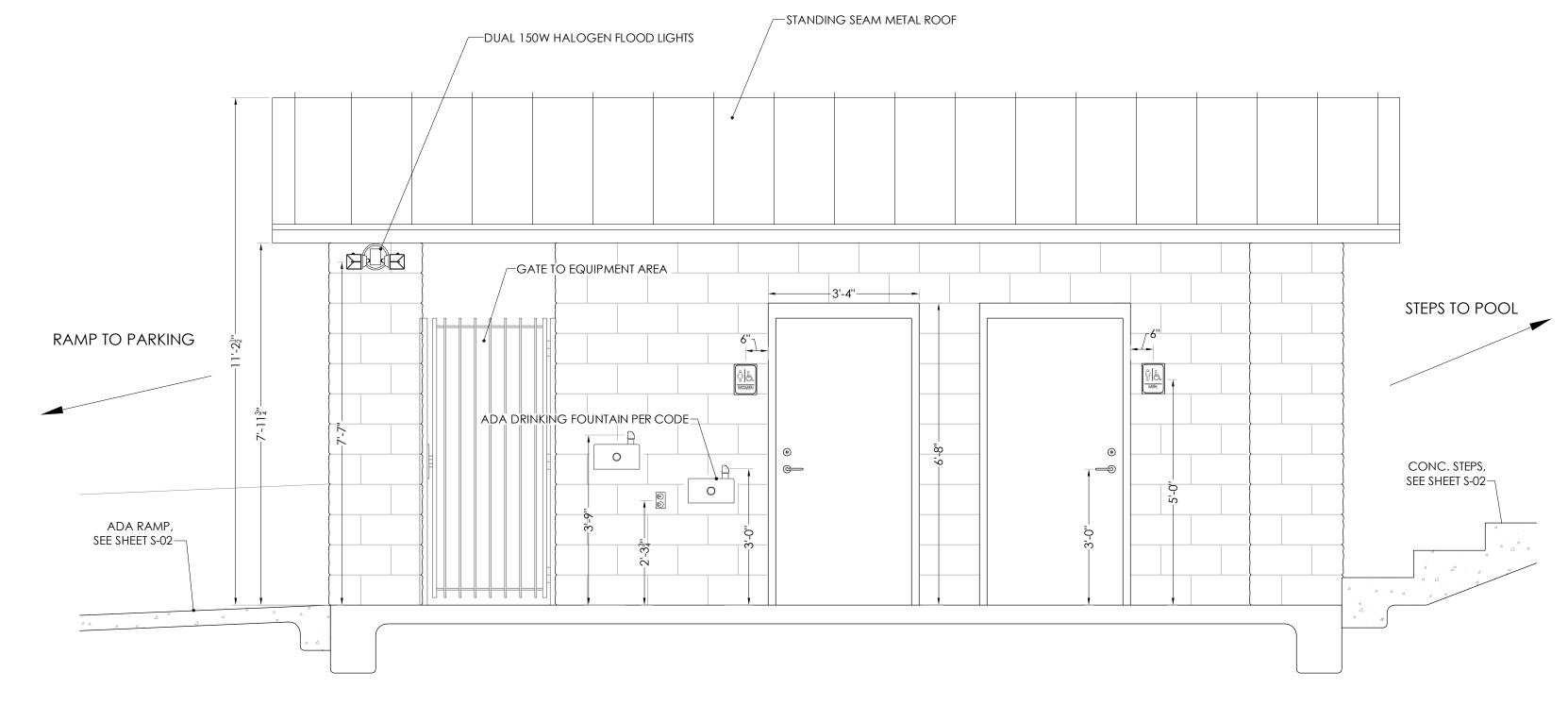






LLC 6.7814 781 GN.US õ. -Z SIG 51 SI Ц 0 DE A O: 512.687.786 www.REYN/ **REYNA** 0: 512.687. PERMIT SET 2016.06.02 ARCH LAYOUT SCALE: SHEET: 1/2"=1'-0" A-01

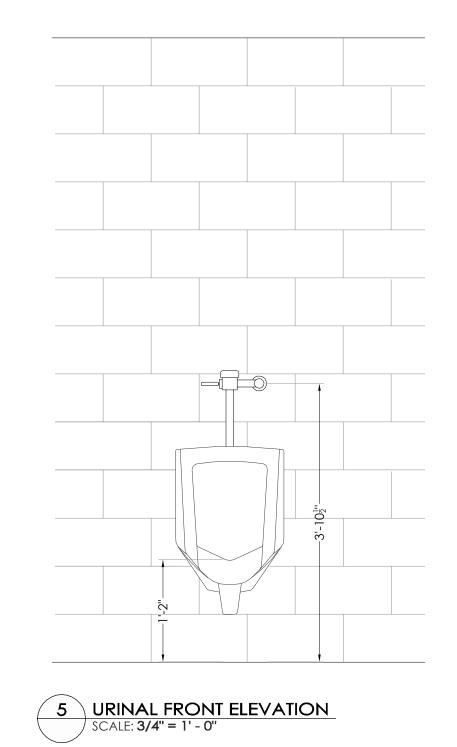


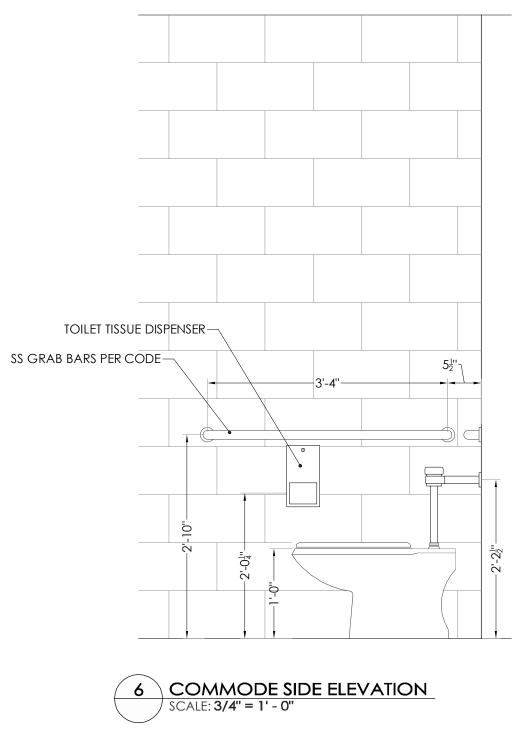


# NOTES:

SPLIT FACE CMU BY FEATHERLITE OR EQUAL, OWNER TO SELECT COLORS. PROVIDE COLOR SAMPLES FOR SELECTION INTERIOR WALLS TO BE PAINTED WITH EPOXY, BLOCK-FILLER PAINT, OWNER TO SELECT COLORS CMU BLOCK WALLS TO BE GROUTED EVERY OTHER CELL W/#4 VERT. REBARS EVERY FOURTH CELL AND IN ALL CORNERS BOND BEAM @ TOW ( OR AT 8'-0") W/(2) #4 REBARS CONT.

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

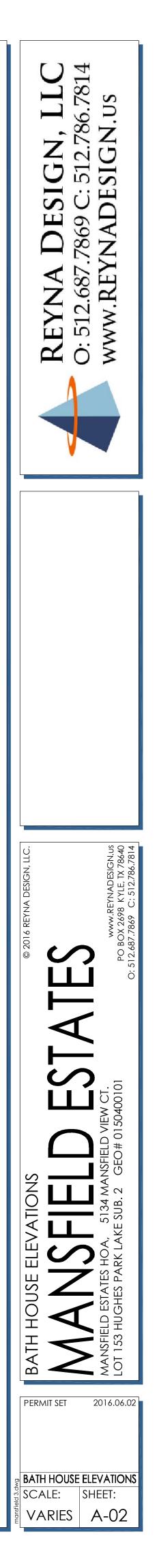


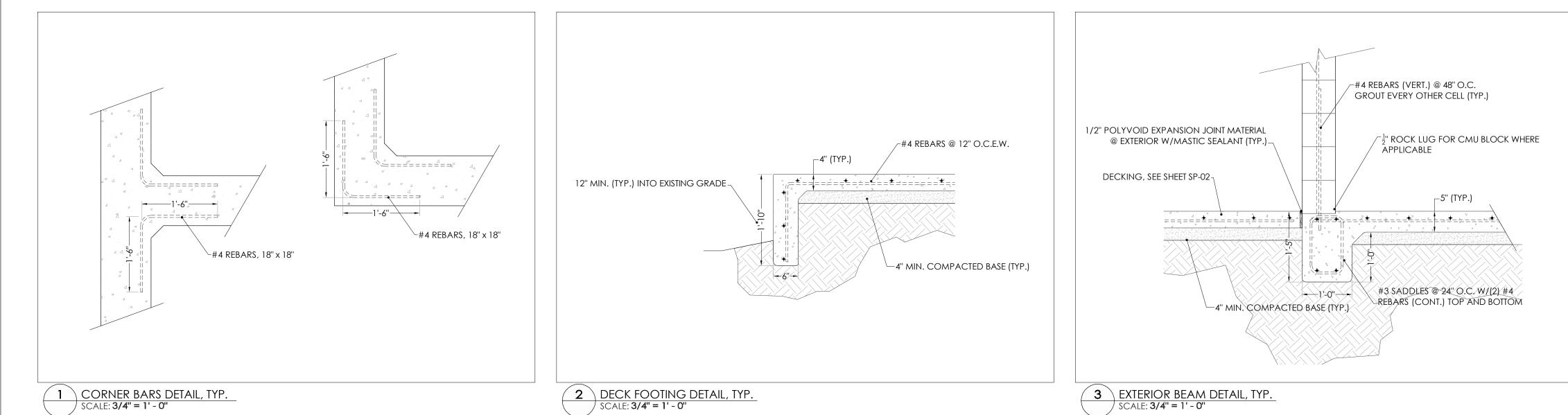


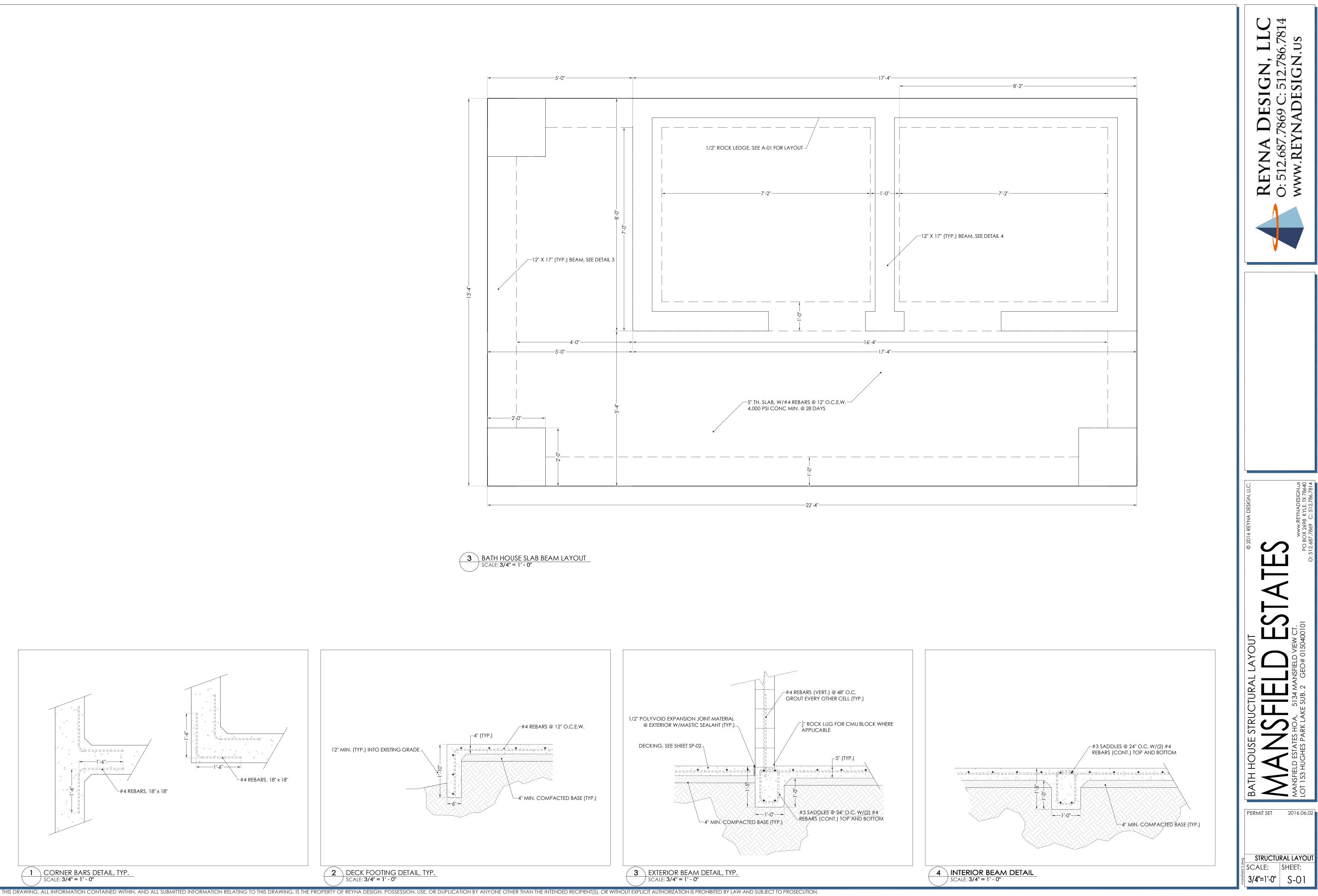
\*ALL SURFACES IN RESTROOMS SHALL BE NON-POROUS

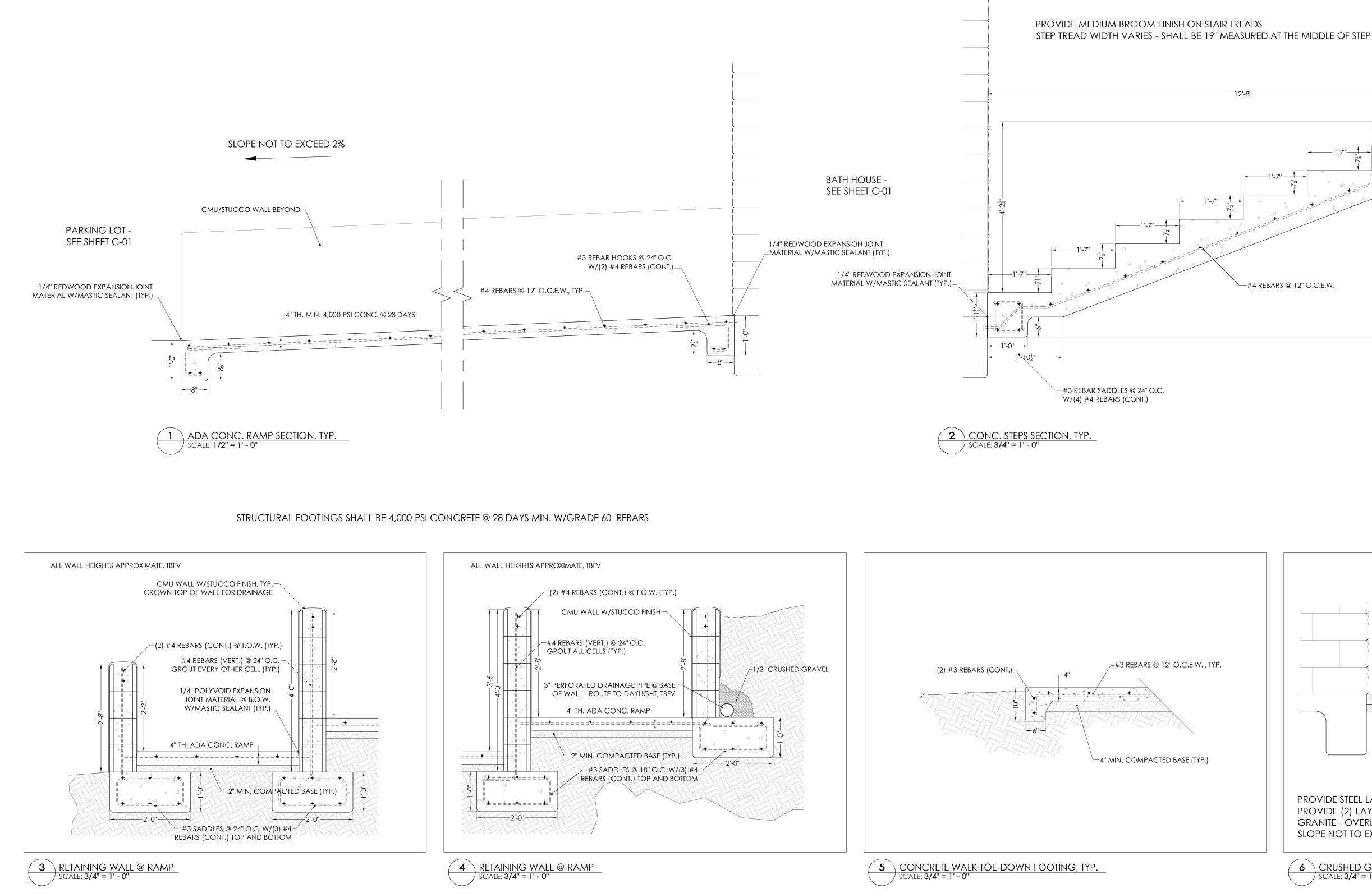
ss grab bars per code -3'-2''-
 7
 COMMODE FRONT ELEVATION

 SCALE: 3/4" = 1' - 0"

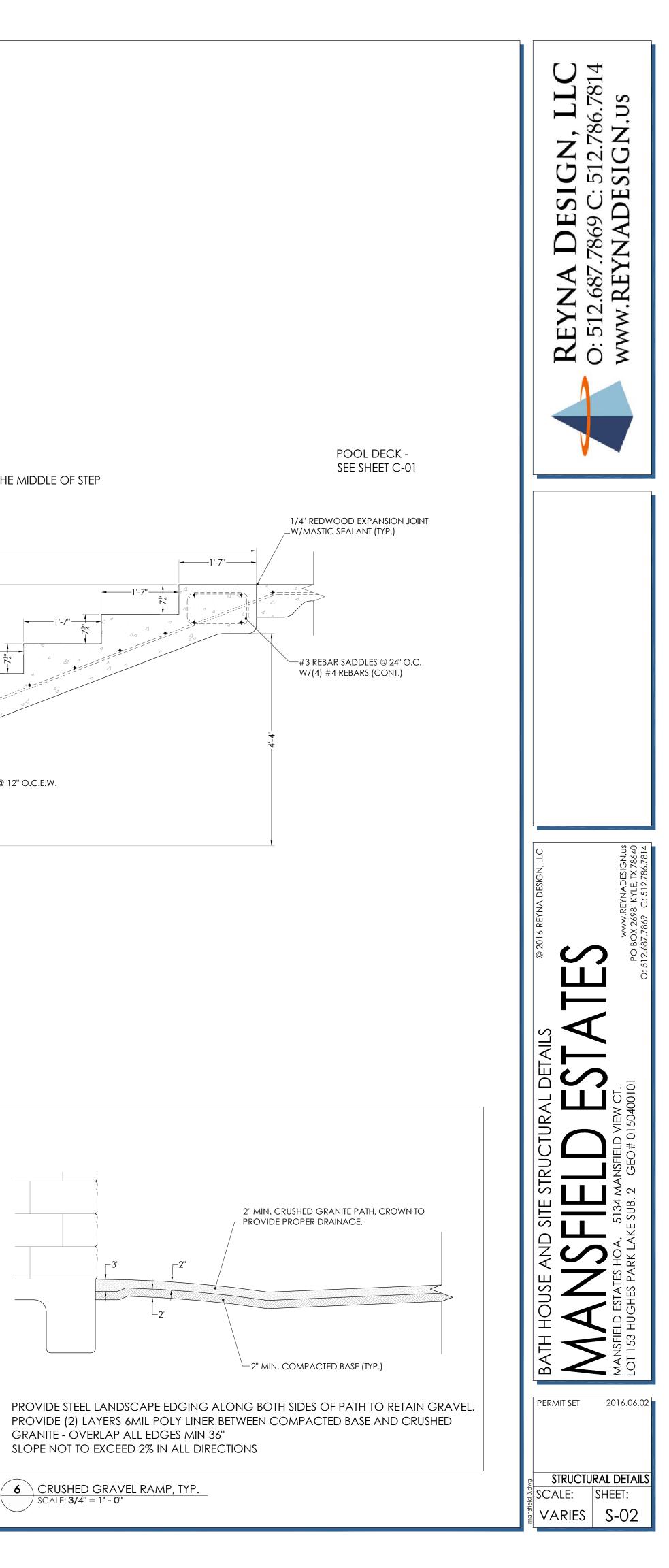








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## GENERAL NOTES:

FLOOR DRAINS SHALL BE PROVIDED WITH AUTOMATIC TRAP PRIMERS.FLOOR DRAINS TO CONFORM TO ASME A1112.6.3, A112.3.1 OR CSA B79.

ALL EQUIPMENT USING CONNECTIONS TO THE POTABLE WATER SYSTEM THAT CAN CREATE A POSSIBLE CROSS-CONNECTION EFFECT ON HEALTH, REQUIRES BACKFLOW PROTECTION AS PER UPC SECT. 603. ALL BACKFLOW PREVENTION DEVICES SHALL BE 3RD PARTY CERTIFIED.

PROVIDE CLEANOUTS AS PER UNIFORM PLUMBING CODE SECTION 707, AT LOCATIONS REQUIRED PER 2009 IPC, SECTION 708.

NO PLUMBING VENT TO ROOF WITHIN 10 FEET FROM ANY AIR INTAKE.

ALL HOT AND COLD WATER & CONDENSATE LINES TO BE INSULATED. (REFER IECC.) INSTALL APPROVED PIPE WRAP OR INSULATION ON HOT WATER AND DRAIN PUPES ON ADA FIXTURES, AS PER 4.19.4 TEXAS ACCESSIBILITY STANDARDS. (TYP.)

EXACT LOCATIONS OF PIPING ENTRANCES/EXITS VARIES BUT THE BASIC DESIGN SIZES REMAIN.

COORDINATE LAYOUT OF DOM WATER SUPPLY & WASTEWATER SERVICE TO BUILDINGS WITH EXISTING UTILITIES PRIOR TO STARTING WORK. ENSURE NECESSARY HORIZONTAL & VERTICAL GRAB BARS FOR EACH ACCESSIBLE WATER CLOSET ARE INSTALLED IF REQUIRED BY CODE. (REFER 2009 IBC 1109).

PROTECT PLUMBING PIPES FROM CORROSION BY SHEATHING OR WRAPPING (PER CODE) AND WITH MIN BURIAL DEPTH OF 6" BELOW FROST LINE & MIN. OF 12" BELOW GRADE. (PER CODE)

PLUMBING PIPES (CONCEALED) SHALL BE PROTECTED AGAINST PHYSICAL DAMAGE BY #16 GAUGE STEEL PLATE (PER CODE).

PLUMBING PIPING SUPPORT SHALL COMPLY WITH SECTION 308 OF THE 2009 IPC.

INSTALL A WATER TEMPERATURE LIMITING DEVICE CONFORMING TO ASSE 1070 TO ALL PUBLIC-HANDWASHING FACILITIES REFER 2009 IPC SECTION 501.8.

ALL WATER HEATERS SHALL BE THIRD-PARTY CERTIFIED. (PER CHAPTER 5, 2009 IPC).

WATER HEATER RELIEF VALVES SHALL CONFORM TO ANSI Z21.22. (PER CHAPTER 5, 2009 IPC).

WATER HEATER RELIEF VALVES TO DISCHARGE TO EXTERIOR (PER CHAPTER 5, 2009 IPC).

WATER HEATER DRAIN PAN & PAN PIPING SHALL COMPLY WITH CHAPTER 5, 2009 IPC. MATERIALS AS PER CHAPTER 5, 2009 IPC. (COPPER/CPVC OR APPROVED ALTERNATE)

WATER SUPPLY SHUT-OFF VALVES INSTALLATION REQUIRED AS PER CHAPTER 5, 2009 IPC. (FIXTURE/APPLIANCE ISOLATION VALVES).

ALL VENT AND BRANCH PIPES SHALL BE GRADED SO AS TO DRAIN BACK TO MAIN DRAINAGE PIPE BY GRAVITY. (PER CODE)

PLUMBING KEYED NOTES:

- (1.) VERIFY EXISTING SHUTOFF VALVE FROM DOMESTIC WATER METER IS PER CODE AND IN PROPER WORKING ORDER. PROVIDE 1-1/2" DOM. WATER SERVICE LINE FOR NEW BUILDING. ROUTE NEW WATER LINE IN SLAB TO DISTRIBUTION LOCATIONS. INSTALL ONLY TYPE "L" COPPER PIPING FOR ABOVE GROUND USE & TYPE "K" SOFT COPPER PIPING (W/NO JOINTS) FOR BELOW GROUND/SLAB. ALL EXPOSED WATER PIPING (HOT, COLD & CONDENSATE) TO BE INSULATED.
- (2.) INSTALL NEW PLUMBING FIXTURES. COORDINATE LOCATIONS WITH ARCHITECTURE. ENSURE CODE COMPLIANT INSTALLATION. ROUTE REQUIRED HOT & COLD WATER SUPPLY LINES TO P-FIXTURES. INSTALL & ROUTE NEW WATER LINES ABOVE CEILING U.O.N. SUPPORT & INSULATE AS REQUIRED BY CODE. PROVIDE NECESSARY BACKFLOW PROTECTION WHERE REQUIRED. (TYP) REFER CODE & K.E.S. REQUIREMENTS. PROVIDE TRAP PRIMERS FOR ALL FLOOR/HUB DRAINS AND FL. SINKS. 120° F HOT WATER TO PUBLIC LAVATORIES & HAND WASHING P-FIXTURES (HAND SINKS).
- (3.) BACKFLOW PREVENTERS:

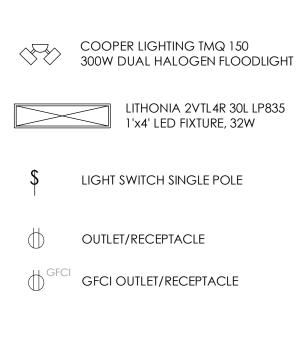
NOTE: ALL PLUMBING EQUIPMENT USING CONNECTIONS TO THE POTABLE WATER SYSTEM THAT CAN CREATE A POSSIBLE CROSS-CONNECTION EFFECT ON HEALTH (IF ANY) REQUIRES BACKFLOW PROTECTION AS PER CODE. PROVIDE NECESSARY BACKFLOW PREVENTERS. PROVIDE INDIRECT WASTE DISCHARGE LOCATIONS FOR BACKFLOW PREVENTERS WHERE REQUIRED.

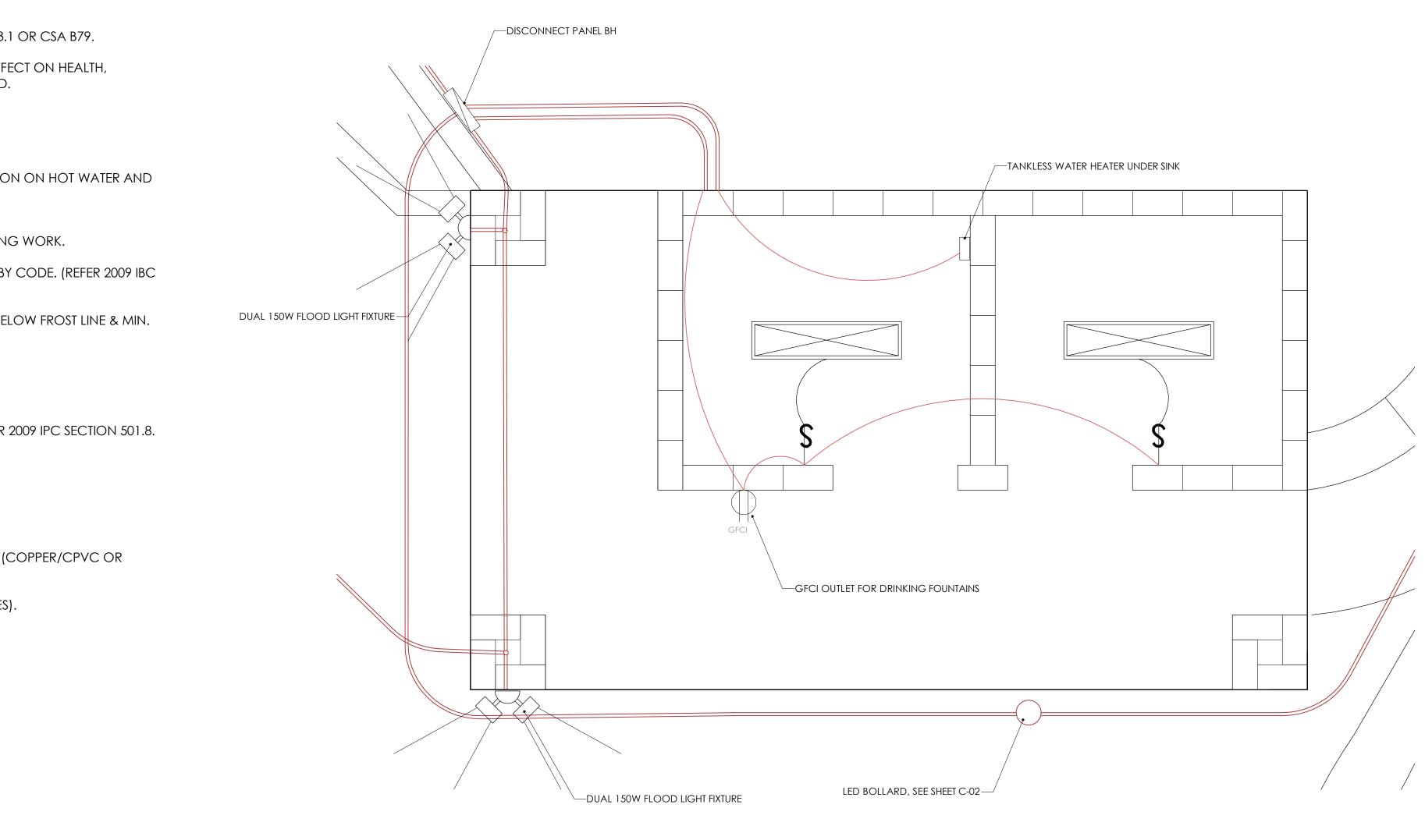
## GENERAL ELECTRICAL NOTES:

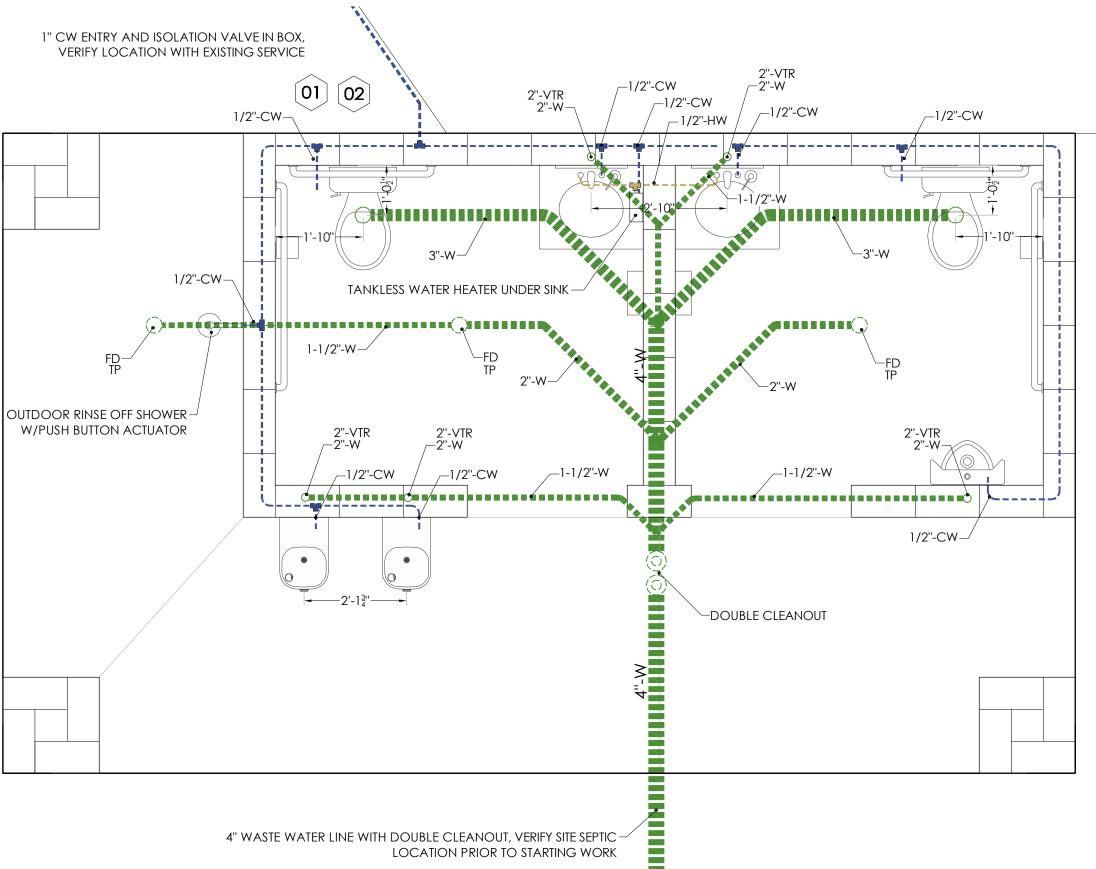
ALL WIRING SHALL CONFORM TO 2011 NEC AND CITY OF AUSTIN CODES AND ORDINANCES. ALL 15 AND 20 AMPERE RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE, PER 2011 NEC, SECTION 406.11

| ELECTRI  | CAL PANEL SCH     | IEDULE B | H    |      |      |                    |         |
|----------|-------------------|----------|------|------|------|--------------------|---------|
| 120/230V | 1-PHASE 3-WIRE 60 | A        | VOLT | AMPS |      |                    |         |
| CIRCUIT  | DESCRIPTION       | TRIP     | L1   | L2   | TRIP | DESCRIPTION        | CIRCUIT |
| L1       | EXT. LIGHTING     | 20       | 1364 |      | 20   | REC. & INT. LIGHTS | RL2     |
| 5        | SPARE             | N/A      |      | 4500 | 40   | WATER HEATER       | WH4     |
| 7        | SPARE             | N/A      | 4500 |      | 40   |                    | ₩14     |
| 7        | SPARE             | N/A      |      | 0    | N/A  | SPARE              | 8       |
| 9        | SPARE             | N/A      | 0    |      | N/A  | SPARE              | 10      |
| 11       | SPARE             | N/A      |      | 0    | N/A  | SPARE              | 12      |
|          |                   | KVA      | 5.86 | 4.50 |      | ·                  |         |
|          |                   | AMPS     | 48.9 | 37.5 |      |                    |         |

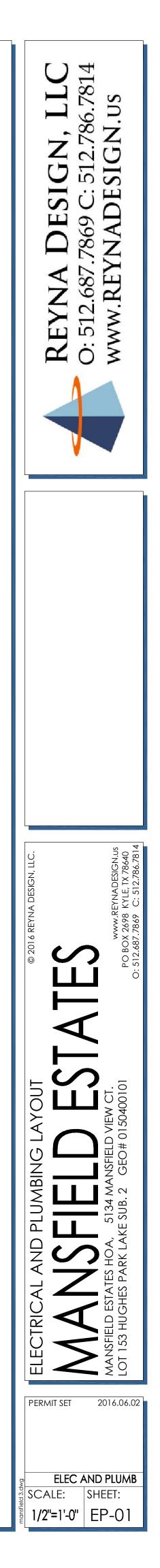
SYMBOLS







03



| DTES   | SHE                        | ETS   | POOL SPECIFICATIONS                                   |                              | , .     |
|--|----------------------------|---|---|------------------------------|---------|
|  | COVER                      | COVER SHEET. SITE MAP AND LEGEND                | TYPE / CLASS  |                              |         |
| AL NOTES;  | C-01                       | OVERALL SITE LAYOUT AND NOTES                   |   | C (SINGLE FAMILY)            | - I I - |
| HESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD BE CONSIDERED CONCEPTUAL. IT IS THE BUILDER'S RESPONSIBILITY TO ASCERTAIN THE VALIDITY OF THE  | C-02                       | OVERALL UTILITIES LAYOUT AND NOTES              | DIMENSIONS  | 32'-10" x 19'-7"             |         |
| HESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHOULD BE CONSIDERED CONCEPTUAL. IT IS THE BUILDER'S RESPONSIBILITY TO ASCERTAIN THE VALIDITY OF THE<br>ESIGN. UNDER NO CIRCUMSTANCES SHOULD THE DESIGNER BE HELD RESPONSIBLE FOR ERRORS OR INCONSISTENCIES. OR FAILURE TO SHOW/DIAGRAM COMMONLY                  | A-01                       | BATH HOUSE DIMENSIONS AND LAYOUT                | WATER LINE PERIMETER                                  | 97'-0"                       |         |
| CCEPTED CONSTRUCTION METHODS OR STANDARDS.   |                            |   | TOTAL PERIMETER IMPEDIMENT                            | 0'-0" (0%)                   | _       |
|  | A-02                       | BATH HOUSE ELEVATIONS                           | DEPTH   | 3'-6" TO 4'-10"              |         |
| HESE DRAWINGS ATTEMPT TO PROVIDE THE INFORMATION REQUIRED TO MEET TRAVIS COUNTY HEALTH CODE. IT SHOULD BE UNDERSTOOD THAT THERE MAY BE   | S-01                       | BATH HOUSE STRUCTURAL LAYOUT                    | VOLUME  | 15,800 GALLONS               | r)      |
| LTERNATIVES TO THE WORK DESCRIBED HEREIN. ULTIMATELY IT IS THE BUILDER'S RESPONSIBILITY TO DETERMINE THE BEST METHODS AND CONSIDERATIONS TO ACHIEVE<br>HE REQUIREMENTS SET OUT IN THE HEALTH CODE.   | S-02                       | BATH HOUSE AND SITE STRUCTURAL DETAILS          | WATER SURFACE AREA                                    | 600 SQ.FT.                   |         |
| IE REQUIREMENTS SET OUT IN THE HEALTH CODE.  | EP-01                      | BATH HOUSE ELECTRICAL AND PLUMBING LAYOUT       | TOTAL INTERNAL SURFACE AREA                           | 908 SQ.FT.                   |         |
| EYNA DESIGN WILL NOT BE HELD RESPONSIBLE FOR DESIGN CHANGES/OMISSIONS, TO THESE DRAWINGS OR OTHERWISE, THAT ULTIMATELY AFFECT THE OVERALL SAFETY   | EP-02                      | BATH HOUSE ELECTRICAL AND PLUMBING NOTES        | MAX. BATHER LOAD                                      | 25 PERSONS                   | U       |
| R LEGALITY OF THE FACILITY/POOL.   |                            |   | TURNOVER RATE   | 4.38 HOURS (60 GPM)          |         |
|  | SP-N1                      | POOL CONSTRUCTION NOTES, SHEETS, SPECIFICATIONS |   |                              |         |
| TURAL NOTES:   | SP-N2                      | POOL SPECIFICATIONS SHEETS                      | DECKING AREA  | 1,380 SQ. FT.                |         |
| URAL NOTES,  | SP-01                      |   | STEPS   | 37'                          |         |
| HOTCRETE SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI @ 28 DAYS.   |                            | POOL LAYOUT AND DIMENSIONS                      | BENCH   | 0'                           | <       |
| ATH HOUSE SLAB SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.   | SP-02                      | POOL PLUMBING AND ELECTRICAL LAYOUT             |   |                              | Z       |
| LL OTHER CAST IN PLACE CONCRETE SHALL MAINTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS   | SP-03                      | POOL SECTIONS AND SHOTCRETE DETAILS             | HANDRAILS - S.S. 1.9"Ø                                |                              |         |
| EINFORCING STEEL TO BE:  | SP-04                      | POOL EQUIPMENT LAYOUT                           |   |                              |         |
|  | SP-05                      | POOL DECK AND ENCLOSURE LAYOUT/DETAILS          | 64" S.R. SMITH CUSTOM 3-BEND                          | (1x)                         | L L     |
| #4 GRADE 60 PLACED @ 8" O.C.E.W. IN POOLS, UNLESS NOTED OTHERWISE.   |                            |   | S.R. SMITH DADE C FLORIDA 3-RUNG LADDER               | (1x)<br>(1x)                 |         |
| #4 GRADE 60 PLACED @ 12" O.C.E.W. IN SLABS/FOUNDATIONS, UNLESS NOTED OTHERWISE.  |                            |   |   |                              |         |
| #3 GRADE 60 PLACED @ 12" O.C.E.W. IN DECKS, UNLESS NOTED OTHERWISE.  | ABE                        | BREVIATIONS                                     |   |                              |         |
| GOVERNED BY THE LATEST EDITIONS OF THE FOLLOWING CODES OR SPECIFICATIONS; ASTM A615/A615M. NEW, DEFORMED BILLET STEEL BARS, GRADE 60.  | -                          |   | ADA LIFT - PENTAIR AQUATRAM POOL LIFT                 |                              |         |
| GOVERNED BY THE LATEST EDITIONS OF THE FOLLOWING CODES OR SPECIFICATIONS, ASTM A013/A015M. NEW, DEFORMED BILLET STEEL BARS, GRADE 60.<br>TIED WITH FS QQ-W-461, BLACK ANNEALED STEEL, 16 GA. (MIN).  | @                          | AT<br>DIAMETER                                  |   |                              |         |
| SPLICED IN ACCORDANCE WITH ACI 315, AND SPLICES SHALL BE 40x DIA. OF BAR SIZE (MIN).   | (4x)                       | TOTAL QUANTITY OF ITEMS                         | PLUMBING AND EQUIPMENT                                |                              |         |
|  | A.D.A.                     | AMERICANS WITH DISABILITIES ACT                 |   |                              |         |
|  | A                          | AMPS  | WALL RETURNS - PENTAIR 3/4" DIRECTIONAL               | (3x)                         |         |
| RICAL NOTES:   | В-                         | BACKWASH PLUMBING                               | FLOOR RETURNS - PENTAIR/STARITE                       | (1x)                         |         |
| LL WORK IN POOL AREA SHALL BE IN ACCORDANCE WITH CURRENT NEC. ARTICLES 250 & 680. AS WELL AS AUSTIN CODE ORDINANCE # 20141211-199  | C.I.P.                     | CAST IN PLACE<br>CENTERLINE                     | SKIMMERS - WATERWAY 2" SLIP                           | (2x)                         |         |
| SECTION 680.13 AND 680.23(A)(4)  | С. то с.                   | CENTER TO CENTER                                | MAIN DRAINS - WATERWAY 8" ROUND SUMP                  | (2x)                         |         |
|  | CONT.                      | CONTINUOUS                                      | w/VGB APPROVED ANTI-VORTEX GRATE AND 1-               | ()                           |         |
| CLEARLY LABELED EMERGENCY SHUTOFF SWITCH SHALL BE INSTALLED TO DISCONNECT ALL UNGROUNDED CONDUCTORS FOR POOL EQUIPMENT AND UNDERWATER  | C.J.                       | CONTROL JOINT                                   |   | 1/2 HIDROSTATIC RELIEF VALVE |         |
| GHTING SYSTEMS, AS DEFINED IN THE NATIONAL ELECTRICAL CODE. THE SWITCH SHALL BE INSTALLED IN A PLACE THAT IS READILY ACCESSIBLE, WITHIN SIGHT, AND NOT<br>ESS THAN 5 FEET FROM THE WATER'S EDGE. THE SIGN FOR THE SHUT-OFF SWITCH SHALL BE RED IN COLOR, WITH LETTERS CAPABLE OF BEING READ FROM A DISTANCE OF | EA.                        | EACH  | 68 GPM MAX. FLOW @ 1.5 FT/S VELOCITY                  |                              |         |
| ESS THAN STEET FROM THE WATER'S EDGE. THE SIGN FOR THE SHUT-OFF SWITCH SHALL BE RED IN COLOR, WITH LETTER'S CAPABLE OF BEING READ FROM A DISTANCE OF<br>FTY (50) FEET. SIGN MATERIAL SHALL BE PLASTIC. METAL OR SIMILAR DURABLE MATERIAL. THE SIGN SHALL READ "EMERGENCY SHUT OFF." THE EMERGENCY SHUT OFF     | EXCV.                      | EXCAVATION                                      | MAKEUP WATER/AUTO FILL: PENTAIR FLUID MA              | STER                         |         |
| WITCH SHALL BE RED IN COLOR AND OF THE MUSHROOM PUSH TO DE-ENERGIZE TYPE.  | E.J.<br>GAL.               | EXPANSION JOINT<br>GALLONS                      | LIGHTING: PENTAIR 5G LED 12V (300w EQ.)               | (2x)                         |         |
|  | G.P.M.                     | GALLONS PER MINUTE                              |   |                              |         |
| LECTRICAL CONTRACTOR SHALL COMPLY WITH THE MOST RECENTLY REVISED VERSIONS OF ALL APPLICABLE REQUIREMENTS OF LAWS, RULES, REGULATIONS, CODES AND  | H.P.                       | HORSE POWER                                     | FILTRATION:   |                              |         |
| RDINANCES OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION ALL EQUIPMENT AND MATERIALS SHALL COMPLY WITH SAID AUTHORITIES WHETHER<br>IDICATED ON THE CONTRACT DOCUMENTS OR NOT ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECTING MEANS PER NEC. (I.E. BREAKERS) FOR ALL ELECTRICAL               | LN. FT.                    | LINEAR FEET                                     | PENTAIR TRITON 2 SAND FILTER                          | (1x)                         |         |
| QUIPMENT   | M-<br>MAX.                 | MAIN DRAIN PLUMBING<br>MAXIMUM                  | FILTRATION PUMP:                                      | ()                           |         |
|  | MIN.                       | MINIMUM   | PENTAIR WHISPERFLO (1 HP) 120v 1-PHASE, 60            |                              |         |
| HESE DRAWINGS ATTEMPT TO GIVE REASONABLE INDICATIONS OF THE LOCATIONS OF THE VARIOUS EQUIPMENT AND DEVICES - ELECTRICAL CONTRACTOR SHALL   | O.C.                       | ON CENTER                                       | CHLORINATION:   |                              |         |
| OORDINATE LOCATIONS WITH OTHER TRADES AND OWNER AS REQUIRED BY SITE CONDITIONS, AND ALL AUTHORITIES HAVING JURISDICTION  | O.C.E.W.                   | ON CENTER EACH WAY                              |   |                              |         |
| LECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH THE STRUCTURE. PIPING. AND OTHER EXISTING CONDITIONS AS REQUIRED FOR A COMPLETE.  | R                          | RADIUS  | RAINBOW HC3330 OFFLINE 1" PVC SLIP STREAM             |                              |         |
| DECIRICAL CONTRACTOR SHALL COORDINATE ALL CONDUCT ROUTING WITH THE STRUCTURE, PIPING, AND OTHER EXISTING CONDITIONS AS REQUIRED FOR A COMPLETE,  | R-<br>REQ.                 | RETURN PLUMBING<br>REQUIRED                     | AVAILABLE CL <sup>2</sup> BY WEIGHT TRICHLORO-S-TRIAZ | LINE I RIONE 15 LBS STORAGE  |         |
|  | S.V.R.S.                   | SAFETY VACCUM RELEASE SYSTEM                    |   |                              |         |
| LL CONDUIT SHALL RUN PARALLEL TO WALLS AND FLOORS - COORDINATE WITH OTHER TRADES PROVIDE EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC TABLE 250.122   | SQ. FT.                    | SQUARE FEET                                     | FINISHES -  |                              |         |
| ALL ELECTRICAL CONDUITS SERVING POOL EQUIPMENT, LIGHTING OR POWER IN POOL AREA A SEPARATE, GREEN GROUND CONDUCTOR SHALL BE PROVIDED WITH ALL   | S.S.                       | STAINLESS STEEL                                 | COPING - LUEDER STONE 12" x 24" - TAN                 | 104'                         |         |
| RANCH AND FEEDER CIRCUITS, SIZE PER NEC 250-95, UNLESS NOTED OTHERWISE ALL SINGLE POLE CIRCUITS SHALL CONTAIN A SEPARATE NEUTRAL CONDUCTOR   | S-                         | SUCTION (SKIMMER) PLUMBING                      | TILE - OWNER TO SELECT COLORS                         |                              |         |
| LECTRICAL CONTRACTOR TO BOND ALL METAL WITHIN 15' OF SWIMMING POOLS, INCLUDING BUT NOT LIMITED TO: STEEL COLUMNS, WALLS, WINDOW FRAMES, DOORS, DOOR  | TH.<br>T.B.D.              | THICKNESS<br>TO BE DETERMINED                   | PLASTER - WHITE MARCITE BY SGM, PLASTER               | SHALL BE 3/8"-5/8" TH(TYP)   |         |
| RAMES, ALL METALLIC PLUMBING, ALL METALLIC POOL EQUIPMENT, AND REINFORCEMENT STEEL IN POOLS. BOND WIRE TO BE #8 BARE COPPER  | T.B.F.V.                   | TO BE DETERMINED                                | WATERLINE - 6" BAND FROST-PROOF CERAMIC               | ( )                          |         |
|  | TOT.                       | TOTAL   |   |                              |         |
|  |                            |   |   |                              |         |
|  | T.D.H.                     | TOTAL DYNAMIC HEAD                              |   |                              |         |
|  | T.D.H.<br>T.O.W.           | TOP OF WALL                                     | DEPTH MARKERS, 6"x6" w/4" LETTERING PER CC            |                              |         |
|  | T.D.H.<br>T.O.W.<br>V      | TOP OF WALL<br>VOLTS                            | "NO DIVING" MARKERS, NON-SKID 6" TILE w/4" LE         | ETTERING (10 LOCATIONS)      |         |
|  | T.D.H.<br>T.O.W.<br>V<br>W | TOP OF WALL<br>VOLTS<br>WATTS                   |   | ETTERING (10 LOCATIONS)      |         |
|  | T.D.H.<br>T.O.W.<br>V      | TOP OF WALL<br>VOLTS                            | "NO DIVING" MARKERS, NON-SKID 6" TILE w/4" LE         | ETTERING (10 LOCATIONS)      |         |

## EQUIPMENT SPECIFICATIONS

**WHISPERFLO®** 

Heavy-duty threading for dependable worry-free



PERFORMANCE CURVES

Low Speed 1750 RPM

TOTAL HEAD Meters of wate

3 HP 2 HP 1½ HP 1½ HP High Speed 1½ HP High Speed 3⁄4 HP High Speed

#### QUIET. EFFICIENT. DURABLE.

The WhisperFlo pump delivers maximum circulation efficiency at the lowest operating cost, and long, trouble-free life with minimal maintenance. Our legendary hydraulic design has been refined over 40 years for superior performance. No wonder more than 2 million Pentair pumps have been selected by pool professionals.

- Advanced FunnelFlo<sup>™</sup> Diffuser and high-efficiency impeller maximize water flow and energy efficiency while minimizing turbulence and noise.
- Energy-efficient motor with commercial-grade frame, rustproof stainless steel shaft and permanently lubricated, sealed bearings for long life.
- Available in single-speed and two-speed models.
- Ideal for pool and spa combinations and for operating in-floor cleaning systems.
- One-year limited warranty. See warranty for details.

#### AVAILABLE FROM:

#### PENTAIR

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# TRITON<sup>®</sup> II FIBERGLASS SAND FILTER

Easy access, heavy-duty closure with built-in pressure relief valve makes inspection and maintenance fast, safer and easy Threaded bulkhead connectors for easier installation and service —  $\mathsf{GlasLok}^{\bowtie}$  Process creates a one-piece, fiberglass-reinforced tank with UV-resistant surface finish for years of unequaled strength and durability

| Model  | Filter Area | Vertical   | Filter   | Required                | Flow Rate   | Turnover | Capacity-Res | . (Gallons) |
|--------|-------------|------------|----------|-------------------------|-------------|----------|--------------|-------------|
| Number | Sq. Ft.     | Clearance* | Diameter | Sand <sup>+</sup> (lbs) | GPM (Comm.) | 8 hrs.   | 10 hrs.      | 12 hrs.     |
| TR 40  | 1.92        | 32.5"      | 19"      | 175                     | 38          | 18,240   | 22,800       | 27,360      |
| TR 50  | 2.46        | 36.75"     | 21"      | 225                     | 49          | 23,520   | 29,400       | 35,280      |
| TR 60  | 3.14        | 37.5"      | 24"      | 325                     | 63          | 30,240   | 37,800       | 45,360      |
| TR 100 | 4.91        | 41.75"     | 30"      | 600                     | 74          | 35,520   | 44,400       | 53,280      |
| TR 140 | 7.06        | 47.25"     | 36"      | 925                     | 106         | 50,880   | 63,600       | 76,320      |

<sup>+</sup>Use standard #20 silica sand. \*Required clearance to remove the closure.

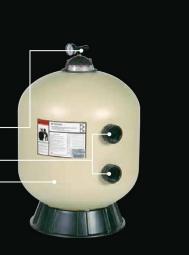
AVAILABLE FROM:

# PENTAIR

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# **RAINBOW**<sup>™</sup> HIGH CAPACITY CHLORINE/ **BROMINE FEEDERS**

• Designed for ease of use and simple maintenance • Drain valve allows easier draining for safer recharging or winterizing • Standard threaded inlet and outlet fittings included for easy installation

#### THE PERFORMANCE LEADER IN AUTOMATIC SANITIZATION MODELS & SPECIFICATIONS

FOR LARGE RESIDENTIAL AND COMMERCIAL POOLS The INLET control valve side of the feeder connects to the plumbing on the discharge side of the pump, before the filter. The OUTLET side of the feeder connects to the pool return line after the filter and/or heater, pool cleaner, diverter valves, or any other installed equipment. Installation of a corrosionresistant check valve such as #R172288 by Pentair between the feeder inlet and outlet and the equipment is strongly recommended to check backflow of chemicals. This helps ensure equipment longevity.

AVAILABLE FROM:

## PENTAIR

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HC-3340

HC-3315 15 lb. capacit

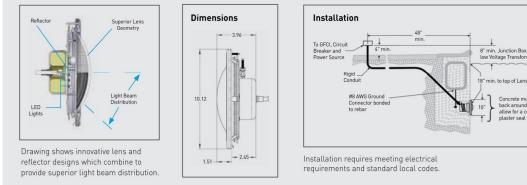
30 lb. capacity

| Mod            | el   | HC-3315 | HC-3330 | HC-3340 |
|----------------|--|---------|---------|---------|
| Part           | Number   | R171215 | R171230 | R171240 |
| Heig           | ht   | 21.5"   | 39.125" | 49.75"  |
| Widt           | h  | 8"      | 8"      | 8"      |
| Dept           | h  | 15"     | 15"     | 15"     |
| Main           | tenance Clearance  | 22.75"  | 40.375" | 51"     |
| Сара           | acity (lbs.)   | 15      | 30      | 40      |
|                | Flow rate (GPM)  | 34      | 34      | 11.5    |
| setting        | Maximum Output Rate, Chlorine*<br>(lbs./hr.)-Pool at listed flowrate | 2.8     | 4.6     | 3.0     |
| @ 100% Setting | Maximum Output Rate, Chlorine*<br>(lbs./hr.)-Spa at listed flowrate  | 4.8     | 7.9     | 5.7     |
| 0              | Maximum Output Rate, Bromine*<br>(lbs./hr.)-Pool at listed flowrate  | 1.3     | 2.7     | 1.7     |
|                | Flow rate (GPM)  | 17.8    | 17.8    | 9.2     |
| etting         | Output Rate, Chlorine*<br>(lbs./hr.)-Pool at listed flowrate         | 2.1     | 3.4     | 2.6     |
| 50% Setting    | Output Rate, Chlorine*<br>(lbs./hr.)-Spa at listed flowrate          | 1.8     | 3.0     | 5.4     |
| 0              | Output Rate, Bromine<br>(lbs./hr.)-at listed flowrate                | 1.0     | 2.0     | 1.5     |
|                | mum Pool Size @ 34 GPM<br>orine-Gals)                                | 224,000 | 369,000 | 658,500 |
|                | mum Pool Size @ 34 GPM<br>mine-Gals)                                 | 99,200  | 164,000 | 292,600 |

num working pressure – 50 psi ults based on use of 1" Trichlor tablets

TX ww,R 2698 869 S S 8732 PERMIT SET 06.20.2016 NOTES, SHEETS, SPEC'S SCALE: SHEET: N/A SP-N1





#### Available in 300, 400 and 500 watt incandescent light brightness equivalents.

Energy Output in Watts

| Incandescent Light | IntelliBrite 5g White LED Light |
|--------------------|---------------------------------|
| 300 Watts          | 40 Watts                        |
| 400 Watts          | 48 Watts                        |
| 500 Watts          | 55 Watts                        |



Also available is the IntelliBrite 5g white LED spa light equal to 108 watts of incandescent brightness while using only 18 watts.

#### An Eco Select<sup>®</sup> Brand Product

LED (Light Emitting Diode) pool and spa lights are the most energy efficient pool and spa lighting option available. That's why IntelliBrite 5g white LED lights are an Eco Select brand product.

The Eco Select brand identifies our "greenest" and most efficient equipment choices. These products save energy, conserve water, eliminate noise, or otherwise contribute to a more environmentally responsible equipment system.

As the global leader in pool and spa equipment manufacturing, we strive to provide greener choices for our customers. We hope you will join us in embracing more eco-friendly poolscapes by choosing Eco Select branded products for your swimming pool.



## PENTAIR

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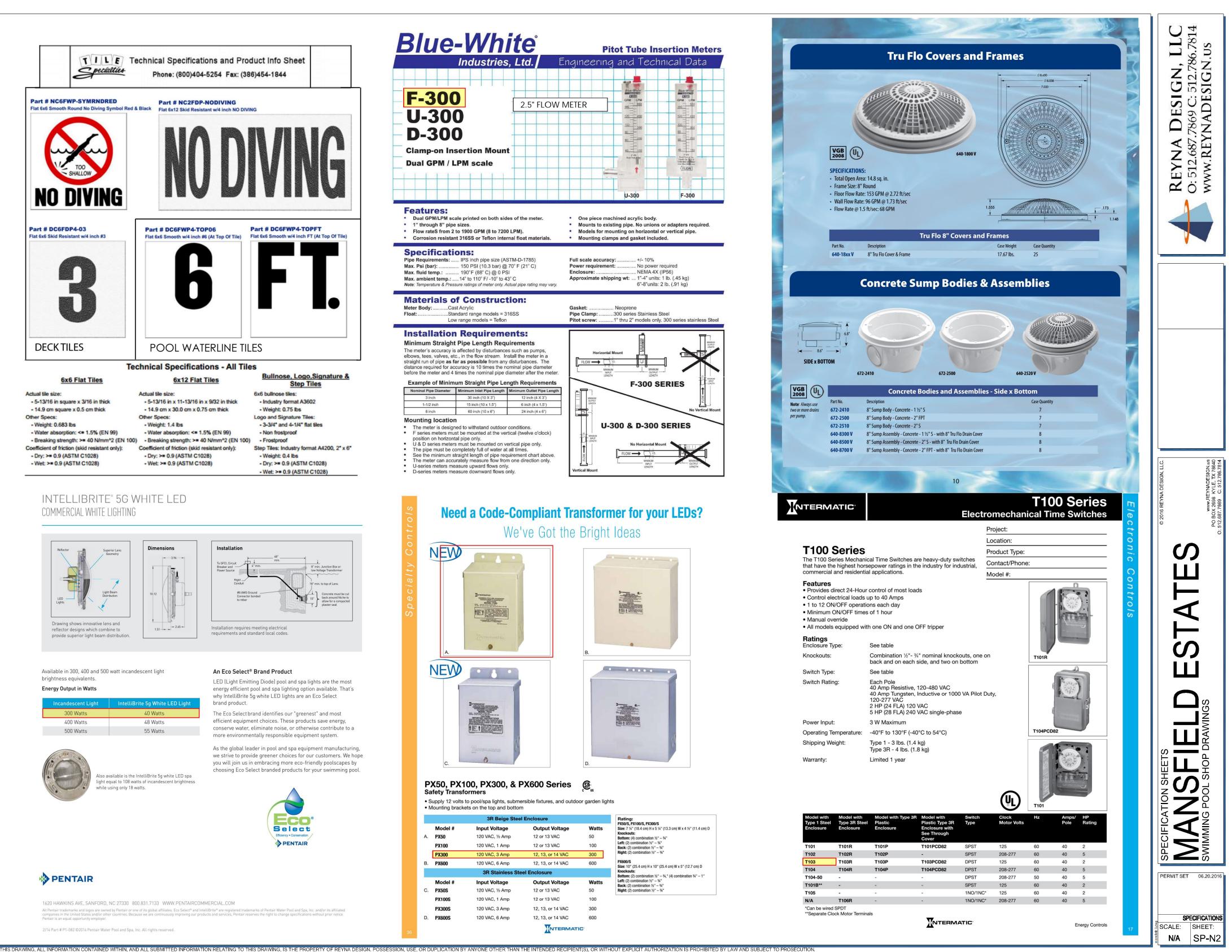
| Blue   | -Wh  | ite   | 0  |                           |  | Pit      | ot  |
|--|--|---|--|---------------------------|--|----------|-----|
|  | Industries   |   |  | Fnai                      | neer   |          | а   |
|  | muustites  | <i>5, L</i> ( <i>u</i> .  |  | LIIGI                     |  | ng       | a   |
|  |  |   |  |                           |  |          | 1   |
| F-300  |  |   |  |                           |  |          | -   |
|  |  | 2.5"  | FLOV   | V METI                    | ER   |          |     |
| <b>U-30</b>  |  |   |  |                           |  |          |     |
| D-300  | -  |   |  |                           |  |          |     |
| D-300  | )  |   |  |                           |  |          |     |
| Clamp-on Ins   | sertion Moun   | t   |  |                           |  |          |     |
| Dual GPM / L   | PM scale   |   |  |                           |  |          | Ì   |
| TTT  |  |   |  |                           |  | -        |     |
|  |  |   |  |                           |  |          |     |
|  |  |   |  |                           |  |          |     |
| lax. Psi (bar):<br>lax. fluid temp.:<br>lax. ambient temp.:  | DNS:<br>IPS inch pipe size (A<br>150 PSI (10.3 bar) @<br>190°F (88° C) @ 0 P<br>14° to 110° F/ -10° to 4<br>sure ratings of meter only. /                          | ) 70° F (21° C<br>SI<br>43° C   | ;)   | Full<br>Pow<br>Enc<br>App | Mounting<br>scale acc<br>er require<br>losure:<br>roximate | curacy   | :   |
| leter Body:Cas<br>loat:Star  | f Construc<br>at Acrylic<br>Indard range models = 3<br>V range models = Teflor   | 316SS   |  | Pipe                      | ket:<br>Clamp: .<br>t screw: .                             |          | 300 |
| Ainimum Straight<br>he meter's accuracy is<br>lbows, tees, valves, etc<br>traight run of pipe as fa<br>istance required for acc<br>efore the meter and 4 t | Requirem<br>Pipe Length Req<br>affected by disturbance<br>., in the flow stream. In<br>ar as possible from an<br>curacy is 10 times the r<br>imes the nominal pipe | uirements<br>es such as punstall the met<br>y disturbance<br>nominal pipe of<br>diameter afte | umps,<br>ter in a<br>es. The<br>diameter<br>r the mete |                           | Hori   | Zontal M |     |
| Nominal Pipe Diameter  | um Straight Pipe Le<br>Minimum Inlet Pipe Length   |   |  |                           |  |          |     |
| 3 inch<br>1-1/2 inch   | 30 inch (10 X 3")<br>15 inch (10 x 1.5")   | 12 inch   |  | -    =                    | MINIMUM<br>OUTPUT<br>LENGTH                                |          |     |
| 1-1/2 inch<br>6 inch   | 15 inch (10 x 1.5°)<br>60 inch (10 x 6")   | 6 inch (4<br>24 inch  | 19992 - 19975  |                           |  |          |     |
| F series meters mus<br>position on horizont<br>U & D series meters<br>The pipe must be co<br>See the minimum st  | ed to withstand outdoor<br>t be mounted at the ve<br>al pipe only.<br>must be mounted on v<br>ompletely full of water a<br>raight length of pipe rea               | ertical (twelve<br>vertical pipe o<br>it all times.<br>quirement cha                          | only.<br>art above.                                    |                           |  | U-3      | 00  |
| U-series meters me   | rately measure flow fro<br>asure upward flows onl<br>asure downward flows  | у.  | on only.   | Vert                      | ical Mount   |          |     |

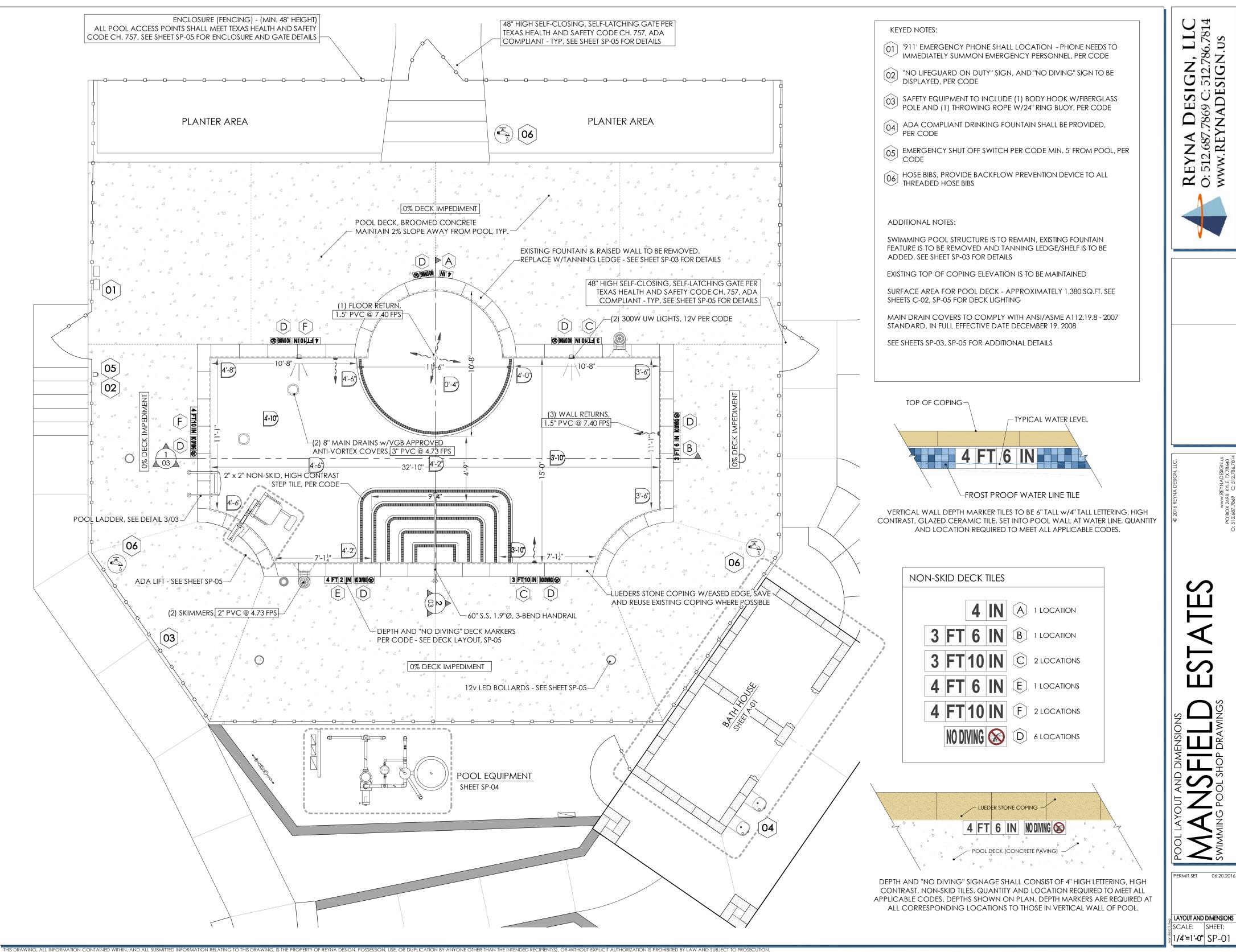


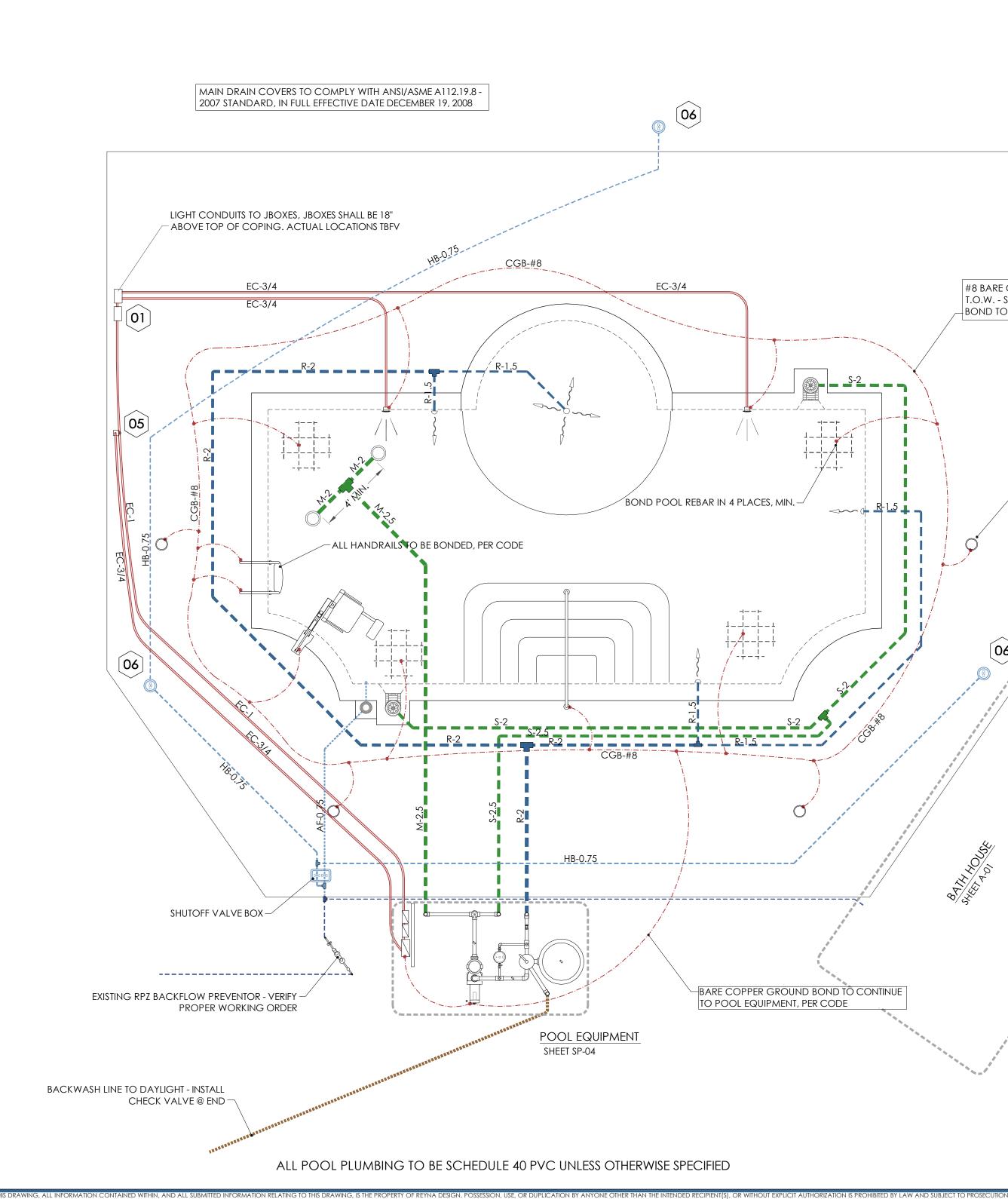
#### PX50, PX100, PX300, & PX600 Series Safety Transformers

 Supply 12 volts to pool/spa lights, submersible fixtures, and outdoor garden lights Mounting brackets on the top and bottom

|    |         | 3R Beige Steel   | l Enclosure       |       |
|----|---------|------------------|-------------------|-------|
|    | Model # | Input Voltage    | Output Voltage    | Watts |
| A. | PX50    | 120 VAC, 1/2 Amp | 12 or 13 VAC      | 50    |
|    | PX100   | 120 VAC, 1 Amp   | 12 or 13 VAC      | 100   |
|    | PX300   | 120 VAC, 3 Amp   | 12, 13, or 14 VAC | 300   |
| В. | PX600   | 120 VAC, 6 Amp   | 12, 13, or 14 VAC | 600   |
|    |         | 3R Stainless Ste | el Enclosure      |       |
|    | Model # | Input Voltage    | Output Voltage    | Watts |
| C. | PX50S   | 120 VAC, 1/2 Amp | 12 or 13 VAC      | 50    |
|    | PX100S  | 120 VAC, 1 Amp   | 12 or 13 VAC      | 100   |
|    | PX300S  | 120 VAC, 3 Amp   | 12, 13, or 14 VAC | 300   |
| D. | PX600S  | 120 VAC, 6 Amp   | 12, 13, or 14 VAC | 600   |
|    |         |                  | NTERMAT           | C.    |









UPON EXPLORATORY EXCAVATION/INSPOECTION, IT MAY BE DETERMINED THAT SOME EXISTING PLUMBING LINES AND/OR FIXTURES ARE SUFFICIENT TO REMAIN IN USE. ALL PLUMBING MUST BE HYDRAULICALLY BALANCED, MUST NOT LEAK AND MUST BE CAPABLE OF HOLDING SUFFICIENT PRESSURE PER TDHHS STANDARDS.

MAIN DRAIN COVERS MUST COMPLY WITH ANSI/ASME A112.19.8 - 2007 STANDARD, IN FULL EFFECTIVE DATE DECEMBER 19, 2008 AND MUST BE STAMPED "2008 VGB APPROVED"

SKIMMERS MUST NOT HAVE EQUALIZER LINES. IF EXISTING SKIMMERS ARE TO REMAIN, ANY EXISTING EQUALIZERS SHALL BE PERMANENTLY PLUGGED/REMOVED.

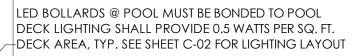
ALL WALL RETURNS SHALL BE OF THE "DIRECTIONAL" TYPE,  $\frac{3}{4}$ " EYEBALL OR SIMILAR

ALL FLOOR INLETS MUST BE FLUSH MOUNTED WITH POOL FLOOR AND SHALL BE OF THE "SCREW-ADJUSTABLE" TYPE PER POOL SPECIFICATION SHEET SP-N1.

PLUMBING FIXTURE LOCATIONS ARE DIAGRAMMATIC IN NATURE. ACTUAL LOCATIONS MAY VARY DEPENDING ON CONDITIONS IN THE FIELD. THE QUANTITY AND TYPE OF FITTINGS SHOWN MUST BE PROVIDED PER TDHHS STANDARDS.

EXISTING FOUNTAIN PLUMBING AND EQUIPMENT SHALL BE REMOVED/ABANDONED.

#8 BARE COPPER GROUND BOND WIRE TO FOLLOW PERIMETER OF POOL @ T.O.W. - SHOWN OUTSIDE OF POOL WALL FOR CLARITY PURPOSES ONLY-BOND TO POOL REINFORCEMENT STEEL @ (4) CORNERS AT A MINIMUM









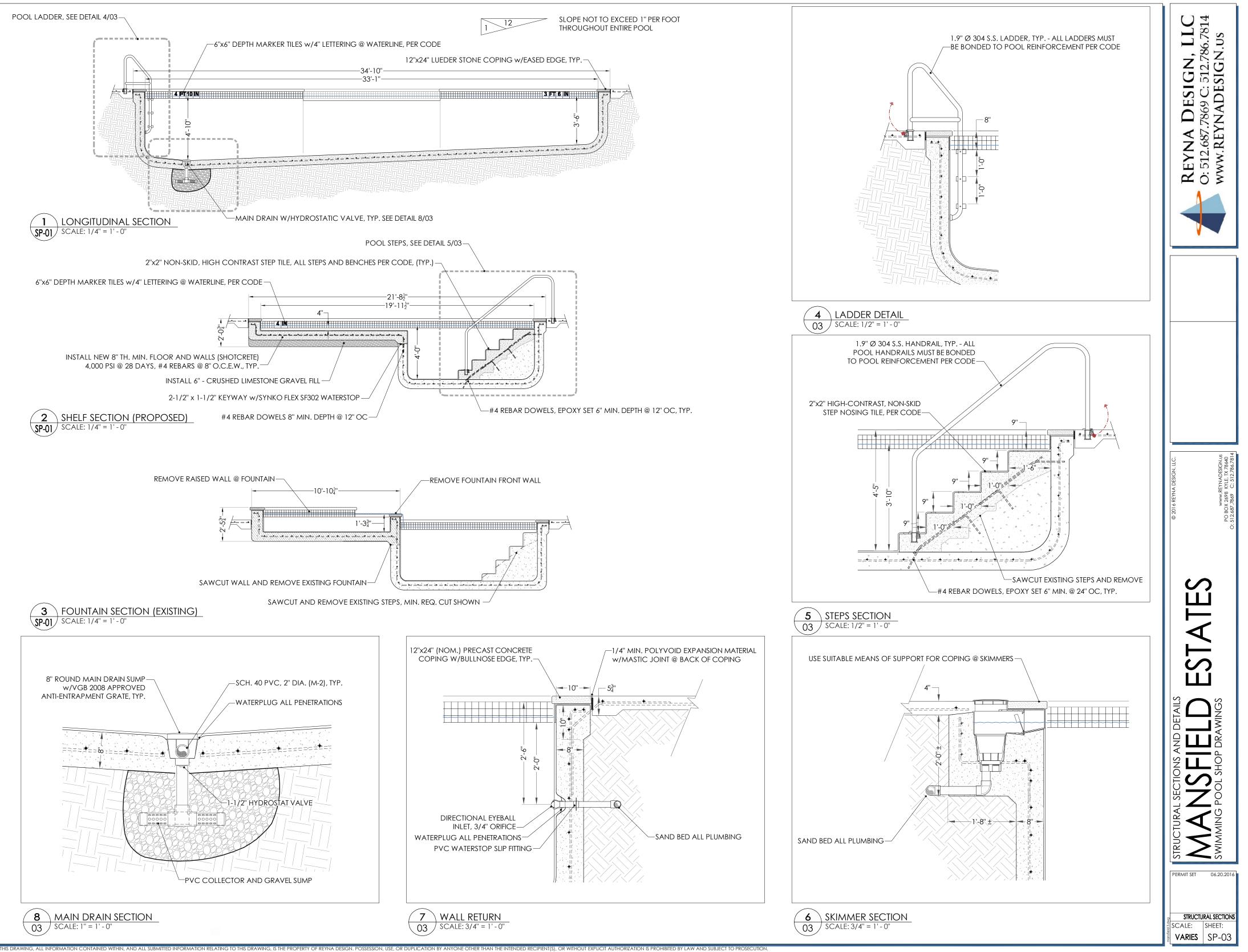
BONDING, PLUMBING SCALE: SHEET: 1/4"=1'-0" SP-02

R-1.5

06

8414 3461 HOUSE

04

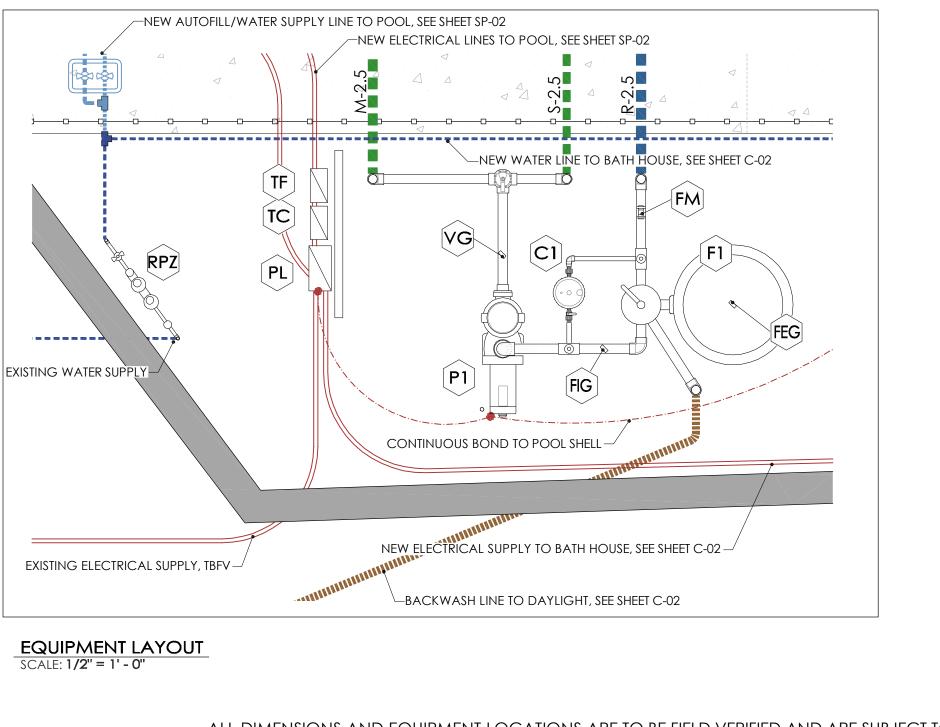


NOTES:

# POOL EQUIPMENT

| NO. | DESCRIPTION                    |                     |                                   |
|-----|--------------------------------|---------------------|-----------------------------------|
| P1  | PENTAIR WHISPERFLO             | FILTRATION PUMP     | 120v, 1-PHASE, 1HP, 12 AMPS       |
| F1  | PENTAIR TRITON 2               | SAND FILTER         |                                   |
| C1  | RAINBOW HC3330                 | CHLORINATOR         | TRI-CHLOR TABLET FEEDER           |
| -IG | FILTER INFLUENT PRESSURE GAUGE | (PROVIDED WITH FILT | ER)                               |
| FEG | FILTER EFFLUENT PRESSURE GAUGE |                     |                                   |
| FM  | (FLOW METER)                   | BLUE WHITE          |                                   |
| VG  | (VACCUM GAUGE)                 |                     |                                   |
| Ľ   | (POOL ELEC. PANELBOARD)        | DISCONNECT PANEL    | FOR POOL EQUIPMENT                |
| С   | INTERMATIC T104                | TIME CLOCK FOR PC   | ol lights, 3-spst                 |
| ſF  | INTERMATIC PX300               | TRANSFORMER FOR     | POOL LIGHTS, 120v 6 AMPS (SOURCE) |
| RPZ | RPZ BACKFLOW PREVENTOR         | REDUCED PRESSURE    | ZONE BACKFLOW PREVENTOR           |

# NO MORE THAN 25 LBS OF CHLORINE TABS OR 4 GALLONS OF MURATIC ACID SHALL BE STORED ON SITE AT ANY TIME, PER CODE.



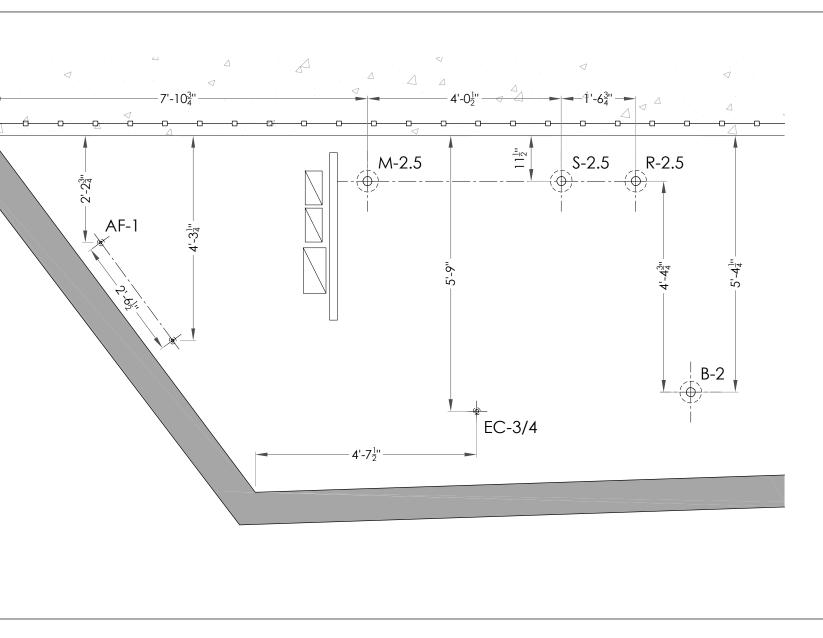
- ALL DIMENSIONS AND EQUIPMENT LOCATIONS ARE TO BE FIELD VERIFIED AND ARE SUBJECT TO CHANGE AT THE DISCRETION OF OWNER AND/OR CONTRACTOR



IT IS THE RESPONSIBILITY OF THE BUILDER TO VERIFY ALL EXISTING ELECTRICAL SYSTEMS AND WIRING TO REMAIN IN SERVICE IS PER NEC CODE AND DOES NOT POSE A SAFETY HAZARD. ALL ELECTRICAL WORK MUST BE PERFORMED BY A LICENSED ELECTRICIAN. ALL ELECTRICAL PER NEC-250, 680 AND CITY OF AUSTIN ORDINANCE # 20111020-089

- ALL UNDERGROUND WIRING, REF. NEC-680.10
- MAINTENANCE DISCONNECTING MEANS, REF. NEC-680.12 EMERGENCY SHUT-OFF SWITCH, REF. COA ORDINANCE 20141211-199 SECTION 680.13
- POOL MOTORS, REF. NEC-680.21
- GFCI PROTECTION, REF. NEC-680.21(C) AND 680.22(A)(4)
- VOLTAGE LIMITATIONS, REF. COA ORDINANCE 20141211-199 SECTION 680.23(A)(4)
- JUNCTION BOXES AND ELECTRICAL ENCLOSURES FOR TRANSFORMERS OR GFCI'S, REF. NEC-680.24
- EQUIPOTENTIAL BONDING, REF. NEC-680.26, SEE SHEET SP-02 FOR POOL PERIMETER BONDING LAYOUT/DIAGRAM

# BARE COPPER GROUND BOND TO CONNECT POOL PUMP TO COMMON GROUND AND CONTINUE TO POOL REINFORCEMENT STEEL, PER CODE.



EQUIPMENT STUB-OUTS SCALE: 1/2" = 1' - 0"

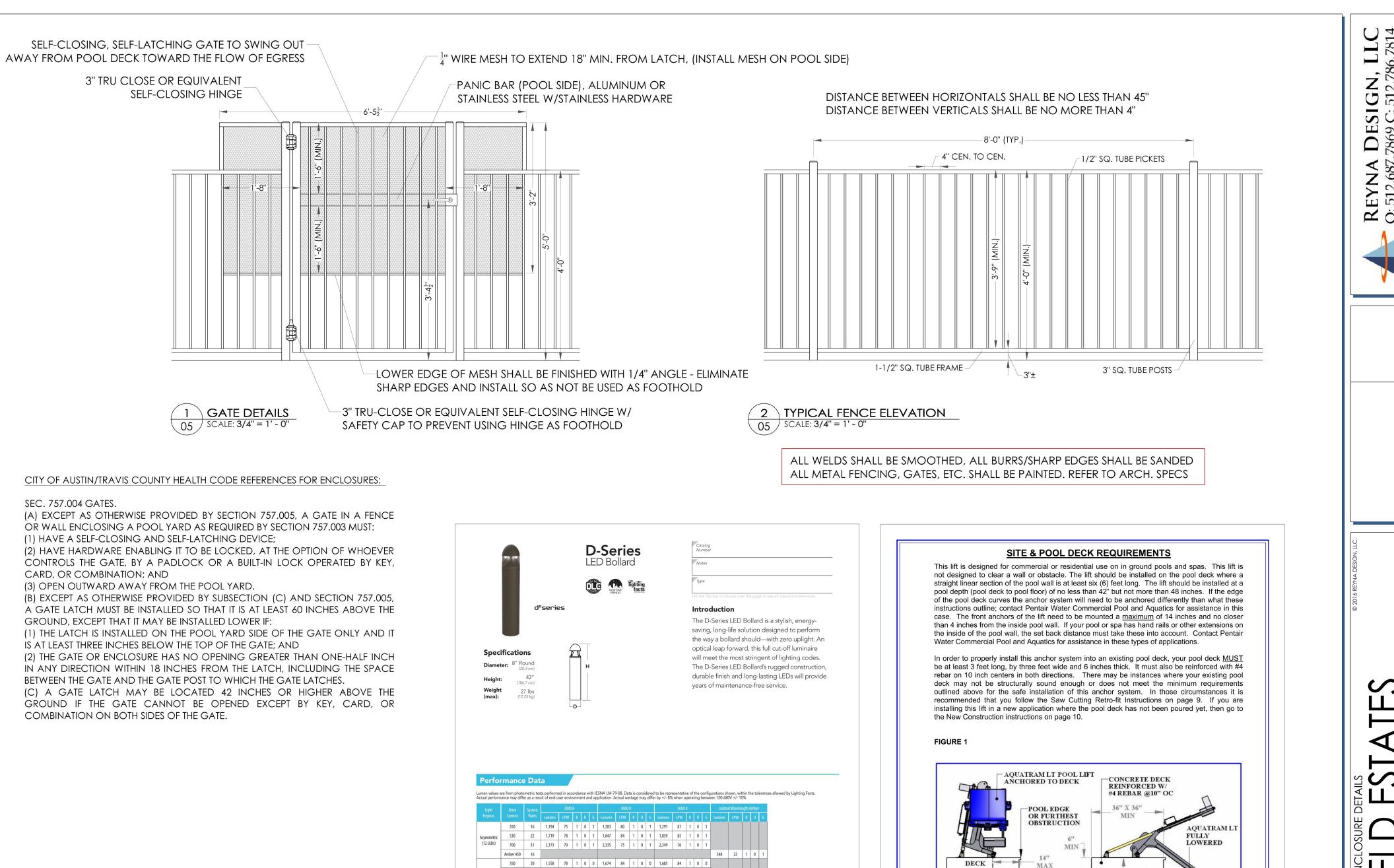
EQUIPMENT LAYOUT

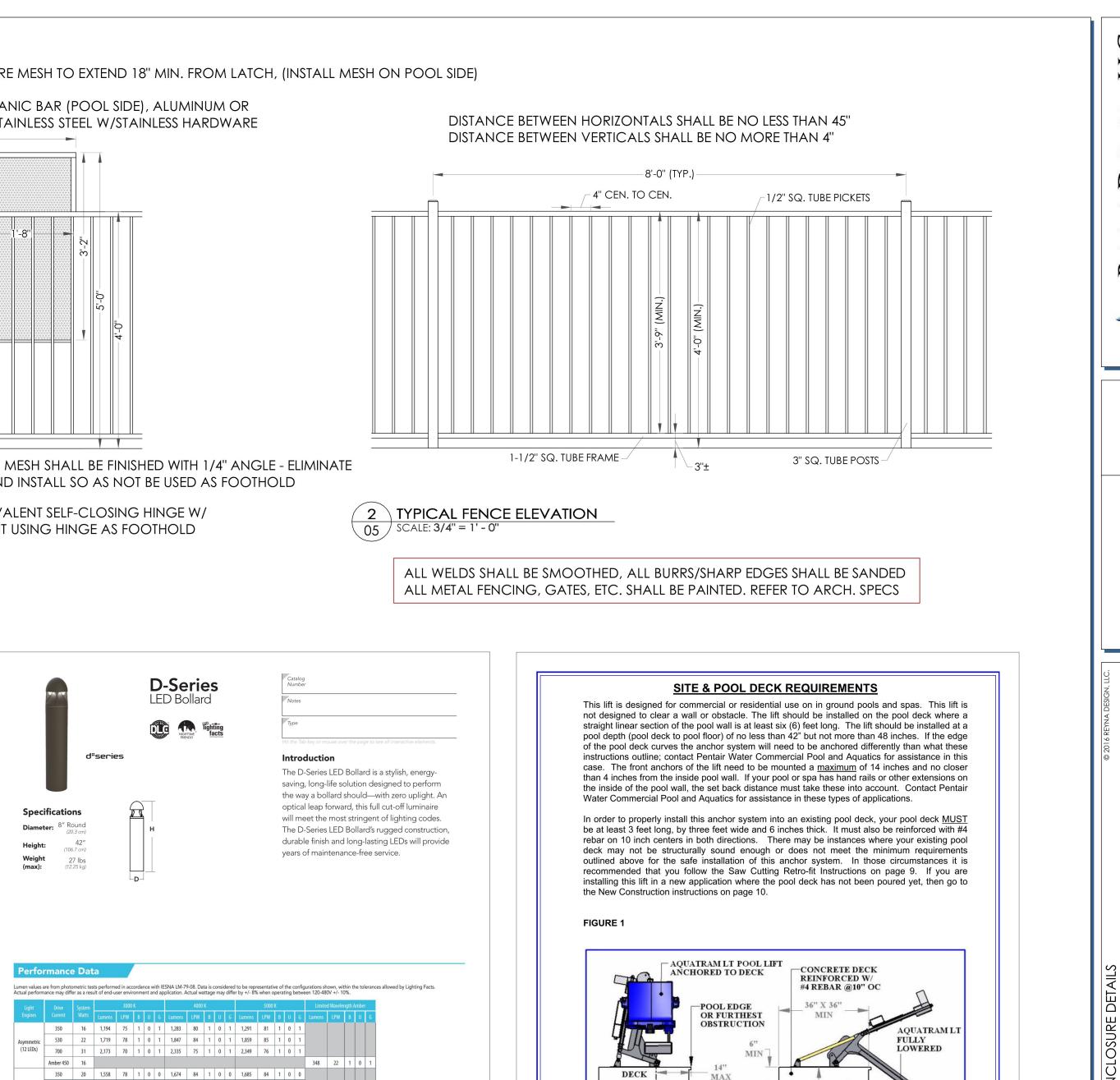
SCALE: SHEET: 1/2"=1'-0" SP-04

LLC

SIGN

[I]





O: 512.687.7869 C: 512.786.7814 www.REYNADESIGN.us

5

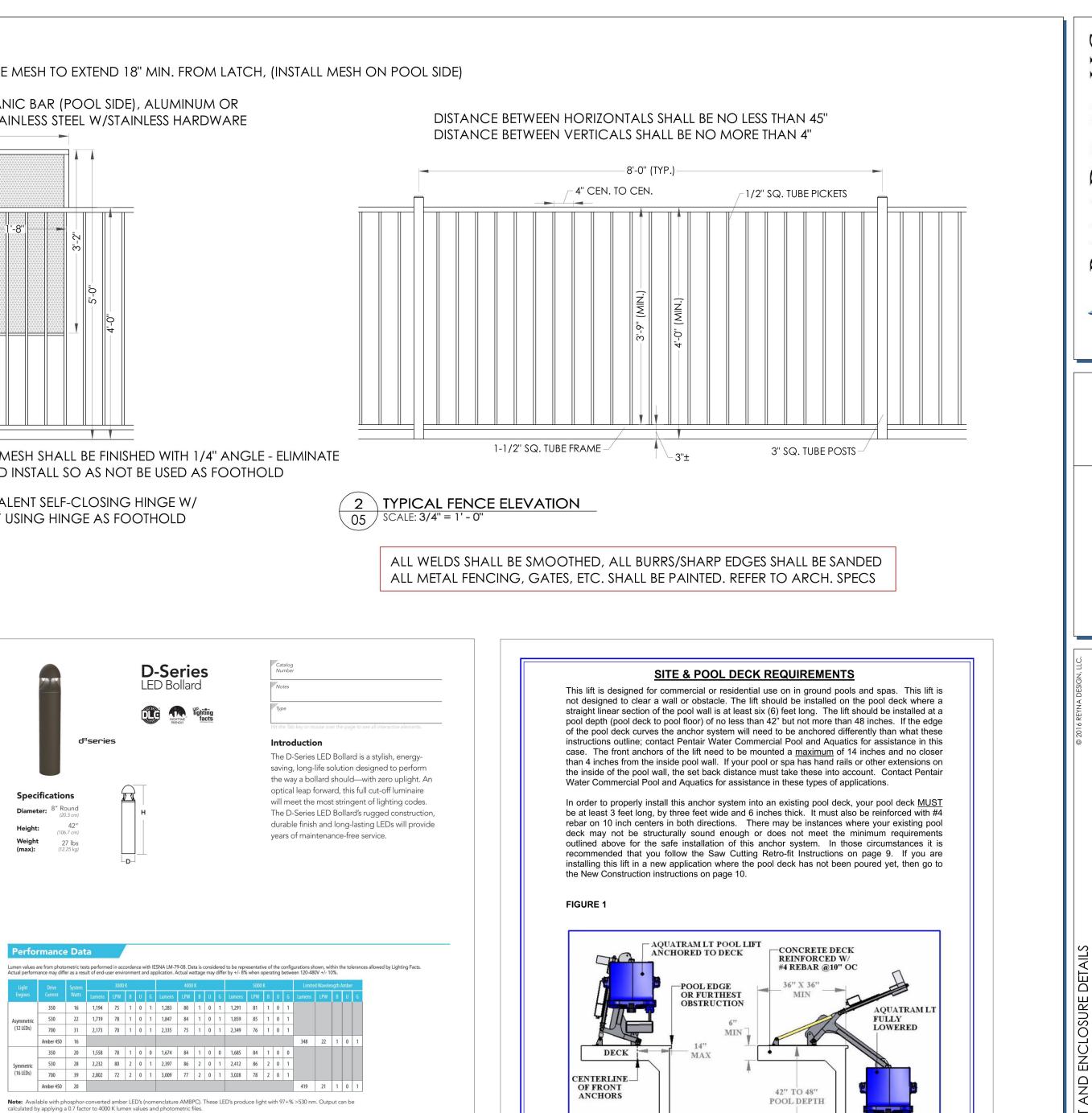
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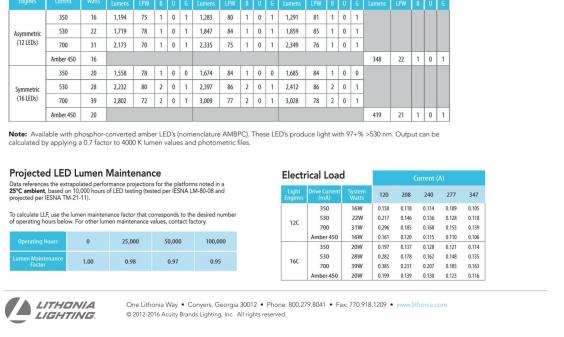
06.20.2016

DECK AND ENCLOSURE

SCALE: SHEET: VARIES SP-05

PERMIT SET







4 ADA LIFT DETAILS

/ scale: **n.t.s**.

05 /