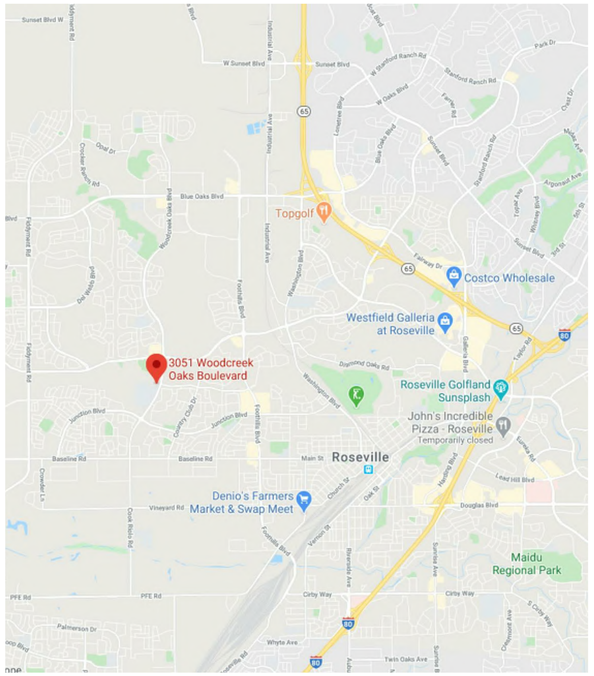
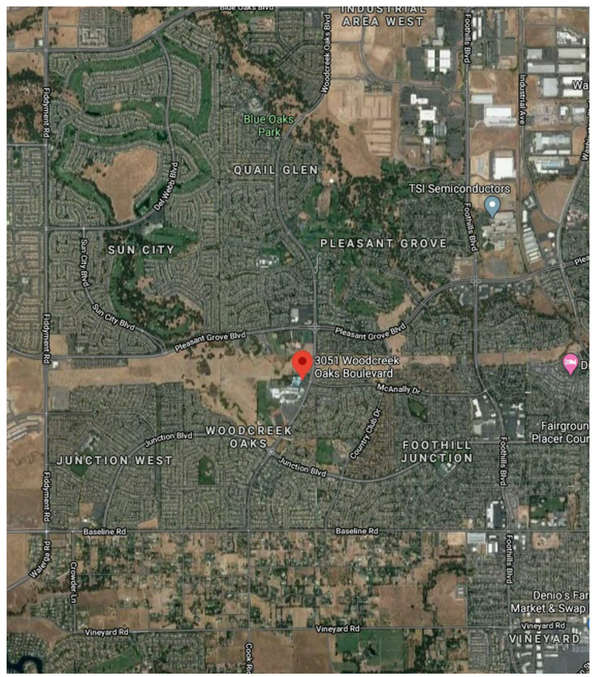
ROSEVILLE AQUATICS COMPLEX
SLIDE & SPRAYGROUND REPLACEMENT

3051 WOODCREEK OAKS BLVD. ROSEVILLE, CA 95747

LOCATION MAP



VICINITY MAP



PROJECT DATA

PROJECT ADDRESS:	3051 WOODCREEK OAKS BLVD. ROSEVILLE, CA 95747
ASSESSOR'S PARCEL NO.	017-370-006-000
OWNER:	PARKS, RECREATION & LIBRARIES ADMIN OFFICE 316 VERNON STREET, SUITE 400 ROSEVILLE, CALIFORNIA 95678 916-772-7529
GOVERNING AGENCY:	CITY OF ROSEVILLE 311 VERNON STREET ROSEVILLE, CA 95678
GOVERNING CODES:	2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA GREEN BUILDING STANDARD ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CITY OF ROSEVILLE PARKS DESIGN AND CONSTRUCTION STANDARDS
SCOPE OF WORK:	1. REMOVE EXISTING POOL SLIDE AND ASSOCIATED STAIR TOWER, AND REPLACE WITH NEW SLIDE COMPLEX. 2. REPLACE EXISTING PLASTER IN RECREATION POOL 3. MODIFY EXISTING POOL DECK AREA FOR NEW TOWER PLACEMENT. 4. MODIFY AND UPGRADE EXISTING PIPING FOR NEW SLIDE 5. REMOVE EXISTING WATER PLAY TOWER, WALKING SURFACE, AND PERIMETER DRAINAGE GRATING AT CHILDRENS PLAY POOL AREA 6. UPGRADE EXISTING MECHANICAL SYSTEMS FOR NEW SPRAY FEATURE ACCOMMODATION 7. INSTALL NEW WATER PLAY FEATURES, WALKING SURFACE, AND DRAINAGE GRATING AT CHILDRENS PLAY POOL AREA.
BID ALTERNATES:	1. ADDITIVE ALTERNATE FOR ADDITIONAL POOL DECK REPLACEMENT AS SHOWN ON A1.3 2. A. ADDITIVE ALTERNATE FOR REPLACEMENT OF THE PUMP AND MOTOR IN KIND FOR POOL C - REFERENCE AS-BUILTS, AQUATIC CONSULTANT SHEETS D400, AND VERIFY IN FIELD. EXISTING PUMP AND MOTOR MAKE & MODEL: *PACO K.P.V. SPLIT CASE CENTRIFUGAL VERTICAL MOUNTED, TEFC, MODEL 4012-1 OR 2, 4"X5"X12", 1750 RPM, 15HP, 78% EFFICIENT, 460V, 3 PHASE, RATED AT 550 GPM 270 FT. TDH, FUSE COAT EPOXY ALL WET SURFACES.* B. ADDITIVE ALTERNATE FOR REPLACEMENT OF THE WATER FILL VALVE IN KIND FOR POOL C - REFERENCE AS-BUILTS, AQUATIC CONSULTANT SHEETS D400, AND VERIFY IN FIELD. EXISTING WATER FILL MAKE & MODEL: *FLOW CONTROL 20-005 WATER LEVEL CONTROL* C. ADDITIVE ALTERNATE FOR REPLACEMENT OF THE CO2 DELIVERY SYSTEM IN KIND FOR POOL C - REFERENCE AS-BUILTS, AQUATIC CONSULTANT SHEETS D400, AND VERIFY IN FIELD. EXISTING CO2 DELIVERY SYSTEMMAKE & MODEL: *STRANTROL CO2-9 ADJUSTABLE FEED UNITS (X3) AND ASSOCIATED NALGENE 980 BRAIDED VINYL TUBING # 9200-4435 3/8" TYPICAL*
OCCUPANCY GROUP:	B-2 (UNCHANGED)
CONSTRUCTION TYPE:	VN (UNCHANGED)
ACTUAL AREA:	
RECREATION POOL	6,788 S.F. (UNCHANGED)
SPRAYGROUND	2115 S.F. (UNCHANGED)
SITE AREA:	1,180,247 S.F.(27.09 ACRES) (UNCHANGED)
PARKING:	(UNCHANGED)

LEGAL DESCRIPTION

PARCEL: 017-370-006-000

DEFERRED SUBMITTALS

1. PLANS FOR THE DESIGN AND INSTALLATION OF THE SLIDE COMPLEX AND TOWER ARE A SEPARATE SUBMITTAL AND SHALL BE SUBMITTED AND APPROVED, PRIOR TO ANY INSTALLATION OF WORK.

PROJECT TEAM

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SPECIAL INSPECTIONS

SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED BY AN APPROVED AGENCY IN ACCORDANCE WITH CBC CHAPTER 17 AND THE STATEMENT OF SPECIAL INSPECTIONS AS REQUIRED BY CBC SECTIONS 1704.2.3 AND 1704.3 FOR BUILDING STRUCTURAL ELEMENTS SUMMARIZED AS FOLLOWS:

1. **CONCRETE CONSTRUCTION** PER CBC SECTIONS 1705.3, AND TABLE 1705.3 INCLUDING FORMWORK, REINFORCING STEEL, CAST-IN-PLACE BOLTS AND ANCHORS, CONCRETE SAMPLES, AND PLACEMENT OF ALL CONCRETE. REINFORCING DOWELS FROM FOOTINGS TO RETAINING WALLS SHALL BE INSPECTED PRIOR TO PLACEMENT OF FOOTING CONCRETE AND WALL GROUT OR CONCRETE. CONTINUOUS OR ISOLATED SPREAD FOOTINGS WITH DESIGN STRENGTH NO GREATER THAN 2500 PSI, NONSTRUCTURAL SLABS ON GRADE, AND EXTERIOR FLATWORK DO NOT REQUIRE SPECIAL INSPECTION PER CBC SECTION 1705.3.
2. **DRILLED CONCRETE PIER FOUNDATIONS** PER CBC SECTION 1705.8, TABLE 1705.8 AND THE APPROVED SOILS REPORT INCLUDING DRILLING OPERATIONS, PIER SIZE AND EMBEDMENT, END BEARING STRATA CAPACITY, AND PLACEMENT OF REINFORCEMENT AND CONCRETE. ADDITIONAL INSPECTIONS OF CONCRETE ARE REQUIRED PER CBC SECTION 1705.3, AND AS NOTED ABOVE.
3. **SPECIAL CASES** PER CBC SECTION 1705.1.1 AND PRODUCT ICC REPORTS FOR ALL STRUCTURAL MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE CBC OR REFERENCED STANDARDS, INCLUDING POST-INSTALLED ANCHOR BOLTS IN CONCRETE.

For Council Approval
Not for Building

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C-18822
REN. 09/10/19
STATE OF CALIFORNIA

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
30% CD	04/05/21
75% CD	05/17/21
99% CD	07/13/21
100% CD/BID SET	08/20/21

Project Number:	200204
Approved By:	JK
Checked By:	MK
Drawn By:	ACJ

Sheet Title:

TITLE SHEET

SHEET NUMBER:

T-1

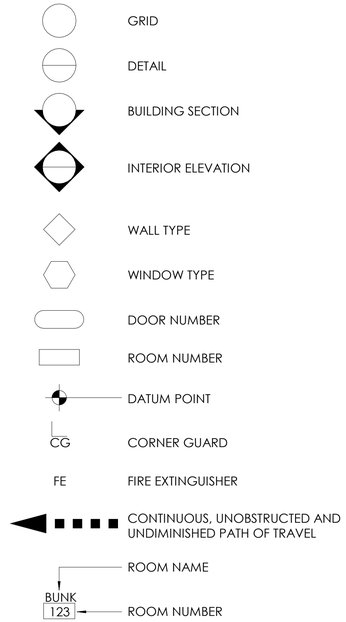
ABBREVIATIONS

&	AND
L	ANGLE
@	AT
℄	CENTERLINE
⌀	DIAMETER OR ROUND
#	POUND OR NUMBER
ACOUS.	ACOUSTICAL
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
AGGR.	AGGREGATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOT.	BOTTOM
CAB.	CABINET
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.I.	CAST-IRON
CJ	CONTROL JOINT
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CTSK.	COUNTERSUNK
C.T.	CERAMIC TILE
DBL.	DOUBLE
DET	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DWR.	DRAWER
DS.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWING
E.	EAST
EA.	EACH
E.J.	EXPANSION JOINT
ELE.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
EQ.	EQUAL
EQPT.	EQUIPMENT
EXST.	EXISTING
EXPO.	EXPOSED
EXP.	EXPANSION
EXT	EXTERIOR
F.A.	FIRE ALARM
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL	FLOOR
FLASH	FLASHING
FLUOR.	FLUORESCENT
F.O.B.	FACE OF BLOCK
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUDS
F.S.	FULL SIZE
FT	FOOT OR FEET
FTG.	FOOTING
FURR.	FURRING
F.F.E.	FINISHED FLOOR ELEVATION
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
GLASS	GLASS
GR	GRADE
GYP.	GYPSUM
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HDWD.	HARDWOOD
HDW.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H	HEIGHT
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
IRRIG.	IRRIGATION
JT.	JOINT
LAM.	LAMINATED
LAV.	LAVATORY
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MET.	METAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
NO.	NORTH
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPNG.	OPENING
OPP.	OPPOSITE
PC.	PRE-CAST
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD	PLYWOOD
PR.	PAIR
PT.	POINT
P.T.DISP.	PAPER TOWEL DISPENSER
RECP.	RECEPTACLE
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
RM.	ROOM
R.O.	ROUGH OPENING
RS.	RE-SAWN
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
SO.	SOUTH
S.C.	SOLID CORE
S.C.DISP.	SEAT COVER DISPENSER
SCHD.	SCHEDULE
S.DISP.	SOAP DISPENSER
SECT.	SECTION
SH.	SHELF OR SHEET
SHR.	SHOWER
SIM	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.STL.	STAINLESS STEEL
STA.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUC.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
S.M.	SHEET METAL
T.C.	TOP OF CURB
TEL.	TELEPHONE
TER.	TERRAZZO
TG	TEMPERED GLASS
T&G	TONGUE AND GROOVE
THK.	THICK
T.P.	TOP OF PAVEMENT
T.P.DISP.	TOILET PAPER DISPENSER
T.V.	TELEVISION
TYP.	TYPICAL
T.O.	TOP OF
T.O.F.	TOP OF FRAMING
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PARAPET
T.O.S.	TOP OF SHEATHING
U.O.N.	UNLESS OTHERWISE NOTED
UR	URINAL
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
V.T.R.	PLUMBING VENT THRU ROOF
W	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W/O	WITHOUT
WP.	WATERPROOF
WPJ	WEAKENED PLANE JOINT
WSCT	WAINSCOT
WT.	WEIGHT

GENERAL NOTES

1. DIMENSIONS SHOWN ON THE FLOOR PLANS, SECTIONS AND DETAILS ARE TO FACE OF STUDS, COLUMN GRID LINES AND FACE OF CONCRETE AND BLOCK WALLS, UNLESS OTHERWISE NOTED OR SHOWN.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
3. ALL ITEMS ARE BASE BID UNLESS OTHERWISE NOTED OR SPECIFIED.
4. ALL DRAIN LINES WITHIN WALLS ARE TO BE WRAPPED IN SOUND INSULATION BATTS.
5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE.
6. CONTRACTOR SHALL PROVIDE ACCESS PANELS REQUIRED BY THE PLUMBING, AIR CONDITIONING AND OTHER INSTALLERS, AS REQUIRED BY CODE. ANY ACCESS PANEL IN A FIRE RATED WALL OR CEILING SHALL HAVE THE SAME FIRE RATING AS THE WALL OR CEILING IN WHICH THEY OCCUR.
7. STRUCTURAL AND FIRE RESISTIVE INTEGRITY SHALL BE MAINTAINED AT PENETRATIONS FOR MECHANICAL, PLUMBING, ELECTRICAL, AND COMMUNICATIONS PIPE, DUCT AND CONDUIT AS INDICATED.
8. A FLOOR OR LANDING NOT MORE THE 1/4" BELOW THE THRESHOLD IS REQUIRED AT EACH SIDE OF AN EXIT DOOR.
9. BRAND OR TRADE NAME, SUBSTITUTIONS OF "EQUALS": REQUESTS FOR SUBSTITUTIONS OF AN ITEM AS AN "EQUAL" TO ANY ITEM INDICATED OR SPECIFIED MUST BE SUBMITTED FOR REVIEW DURING THE SUBMITTAL PROCESS. ALONG A LINE BY LINE COMPARISON, AS SPECIFIED IN THE GENERAL CONDITIONS.
10. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC SCALE. DO NOT SCALE DRAWINGS.
11. IT SHOULD BE NOTED THAT WHILE EXISTING UTILITY DRAWINGS ARE AVAILABLE, THERE IS NO ASSURANCE THAT ALL UTILITIES ARE SHOWN. THE CONTRACTOR SHALL PROCEED WITH CAUTION TO INSURE THAT ALL UTILITIES ENCOUNTERED, WHETHER OR NOT OF RECORD, SHALL BE PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ALSO TAKE PRECAUTIONS NECESSARY TO PROTECT HIMSELF AND ALL EMPLOYEES FROM INJURY WHICH MAY BE CAUSED BY CONTACT WITH UTILITY SERVICES.
12. DOOR HARDWARE SHALL BE LEVER TYPE.
13. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS.
14. ALL DECORATIVE MATERIALS SHALL BE MAINTAINED IN A FLAME-RETARDANT CONDITION.
15. ALL REQUIRED PERMITS MUST BE OBTAINED FROM FIRE PLAN CHECK BEFORE BUILDING IS OCCUPIED.
16. THE CONSTRUCTION, REMODEL, OR DEMOLITION OF A BUILDING SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ROSEVILLE.
17. THESE PLANS AND ALL WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING STANDARDS CODE FOUND IN THE STATE OF CALIFORNIA TITLE 24 CCR, AS AMENDED AND ADOPTED BY THE CITY OF ROSEVILLE.
18. CONTRACTOR SHALL THOROUGHLY COORDINATE ALL TRADES AS REQUIRED TO COMPLETE ALL WORK INDICATED AND NECESSARY FOR THE PROJECT.
19. CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES AND SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
20. THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATION.
21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND / OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEY OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE LAND SURVEYOR'S ACT.
23. PENETRATION OF FIRE RESISTIVE WALLS, FLOOR - CEILING ASSEMBLIES AND ROOF - CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 712 AND 713.
24. NO HAZARDOUS MATERIALS WILL BE USED OR STORED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES SHOWN ON CBC TABLE 5003.1.1.
25. WORK NOT SPECIFICALLY INDICATED OR SPECIFIED BUT WHICH IS REQUIRED FOR THE COMPLETION OF THE WORK SHALL BE PROVIDED IN THE SAME MANNER AS SIMILAR WORK WHICH IS REQUIRED OR SPECIFIED WITHOUT ADDITIONAL CHARGE.

SYMBOLS



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PL405	MECHANICAL DETAILS
PL500	POOL D - MECHANICAL SCHEMATIC
PL510	POOL D - ELECTRICAL SCHEMATIC

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
30% CD	04/05/21
75% CD	05/17/21
99% CD	07/13/21
100% CD/BID SET	08/20/21

Project Number: 200204
Approved By: JK
Checked By: MK
Drawn By: ACJ

Sheet Title:

TITLE SHEET

SHEET NUMBER:

T-2

For Council Approval
Not for Bidding

CLEAR FLOOR SPACE FOR WHEELCHAIRS

1. MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30" x 48". MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. FLOOR OR GROUND SPACE FOR WHEEL CHAIRS MAY BE PART OF THE KNEE SPACE AND TOE CLEARANCE REQUIRED UNDER SOME OBJECTS. ONE FULL UNOBSTRUCTED SIDE OF THE CLEAR FLOOR OR GROUND SPACE SHALL ADJOIN AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE.
2. ALCOVES ARE TO BE 60" WIDE WHEN GREATER THAN 15" DEEP.
3. PROVIDE AN ADDITIONAL 6" WIDTH ON ONE SIDE FOR ALCOVES GREATER THAN 24" DEEP AND DESIGNED FOR FRONT APPROACH.

HAZARDS AND PROTRUDING OBJECTS

1. OBJECTS WITH LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO CIRCULATION PATH.
2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
3. OBJECTS MOUNTED ON POSTS / PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE GROUND OR FINISHED FLOOR.
4. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
5. ANY OBSTRUCTION OVERHANGING A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80" ABOVE THE WALKING SURFACE AS MEASURED TO THE BOTTOM OF THE OBSTRUCTION. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80". SUCH GUARDRAILS SHALL BE LOCATED 27" MAX ABOVE FINISHED FLOOR.

PARKING

1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE.
2. SURFACE SLOPES OF PARKING SPACES FOR THE PHYSICALLY DISABLED SHALL NOT EXCEED 1/4 INCH PER FOOT (2% GRADIENT) IN ANY DIRECTION.
3. DISABLED PARKING SPACES SHALL BE LOCATED SO AS NOT TO REQUIRE USERS TO WHEEL OR WALK BEHIND ANY OTHER NON-DISABLED OR DISABLED PARKING SPACE, OTHER THAN TO PASS BEHIND THE PARKING SPACE IN WHICH THEY PARKED.
4. IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF ADJACENT ACCESSIBLE ROUTES.
5. PARKING SPACES RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT, IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70" IN AREA AND, WHEN IN THE PATH OF TRAVEL, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80" FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. WHEN NOT IN THE PATH OF TRAVEL SIGNS MAY ALSO BE ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MIN. HEIGHT OF 60" FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR SIDEWALK MEASURED TO THE BOTTOM OF THE SIGN.
6. ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN BELOW THE ISA SHALL STATE "MINIMUM FINE $250"
7. VAN ACCESSIBLE SPACES SHOULD BE IDENTIFIED WITH THE ADDITIONAL WORDS "VAN ACCESSIBLE" ON THE SPACE IDENTIFICATION SIGN, ONE IN EVERY SIX ACCESSIBLE SPACES, BUT NEVER LESS THAN ONE, MUST BE VAN ACCESSIBLE.

WALKS AND SIDEWALKS

1. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL WHICH EXCEED 1/4", AND SHALL BE A MINIMUM OF 48" IN WIDTH.
2. SURFACE CROSS SLOPES SHALL NOT EXCEED 2%. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 5%.
3. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER. ENLONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
4. WHEN THE SLOPE IN THE DIRECTION OF TRAVEL OF ANY WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL, IT SHALL COMPLY WITH THE PROVISIONS OF RAMPS.
5. WHEN ABRUPT CHANGES IN LEVEL NOT EXCEEDING 1/2" OCCUR, THEY SHALL BE BEVELED WITH A SLOPE NO GREATER THE 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL (50%), EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL.
6. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE EXCEEDING 1/2" SHALL COMPLY WITH THE REQUIREMENTS FOR CURB RAMPS AND RAMPS.
7. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60" x 60" AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48" x 44" DEEP AT A DOOR OR GATE THAT SWINGS AWAY FROM THE WALK.
8. WALKS SHALL EXTEND A MINIMUM OF 24" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.
9. WALK AND SIDEWALK SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT.
10. ABRUPT CHANGES IN LEVEL 4" OR MORE IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY A 6" MIN. HIGH CURB ABOVE WALK SURFACE OR GUARDRAIL W/ 2"-4" CENTERED HIGH GUIDE RAIL

ENTRANCES AND DOORS

1. ALL PRIMARY ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED.
2. ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH ONE STANDARD INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS IDENTIFYING THE LOCATION OF NEAREST ACCESSIBLE ENTRANCE, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 36 INCHES IN WIDTH, AND NOT LESS THAN 80" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE MOUNTED SO THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
4. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP, PINCH OR TWIST THE OPENING HARDWARE AND MUST BE OPERABLE WITH ONE HAND.
5. THE OPERABLE PARTS OF LEVER HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE MOUNTED BETWEEN 34" MINIMUM AND 44" MAXIMUM ABOVE THE FLOOR AND NOT REQUIRE MORE THAN 5 POUNDS OF FORCE TO OPERATE.
6. THE FLOOR OR LANDING LENGTH ON EACH SIDE OF AN ENTRANCE OR A PASSAGE DOOR SHALL BE LEVEL AND CLEAR AT LEAST 60" IN THE DIRECTION OF THE DOOR SWING AND AT LEAST 48" OPPOSITE THE DIRECTION OF THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE FACE OF THE DOOR IN THE CLOSED POSITION. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE WHICH THE DOOR SWINGS SHALL EXTEND A MINIMUM OF 24" PAST THE STRIKE EDGE OF THE DOOR FOR DOORS WITH LATCH SIDE APPROACH AND 36" FOR DOORS REQUIRING HINGE SIDE APPROACH. REFER TO DETAIL B3 ON THIS DRAWING FOR ADDITIONAL CLEARANCE REQUIREMENTS.
7. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
8. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION WHERE NARROW FRAME DOORS ARE USED. A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST. SURFACES ALONG THIS AREA MUST BE WITHIN 1/16" OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY KICK PLATES MUST BE CAPPED.
9. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR DOORS AND 5 LBS. FOR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT EXCEED 15 LBS.
10. DOOR CLOSERS REQUIRE AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO 12 DEGREES FROM THE LATCH
11. EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT". EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE SIGN THAT STATES "EXIT STAIR DOWN," "EXIT RAMP DOWN," "EXIT STAIR UP," OR "EXIT RAMP UP" AS APPROPRIATE. EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH DOOR THROUGH AN HORIZONTAL EXIT IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT".
12. VISION LIGHTS MUST HAVE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43" MAX. ABOVE FLOOR FINISH.

STAIRS AND STAIRWAYS

1. STAIRWAYS SHALL HAVE HANDRAILS ON EACH SIDE. EVERY STAIRWAY REQUIRED TO BE MORE THAN 88" IN WIDTH SHALL BE PROVIDED WITH NOT LESS THAN ONE INTERMEDIATE HANDRAIL FOR EACH 88" OF REQUIRED WIDTH. INTERMEDIATE HANDRAILS SHALL BE SPACED APPROXIMATELY EQUALLY WITHIN THE ENTIRE WIDTH OF THE STAIRWAY.
2. THE UPPER APPROACH AND THE LOWER TREAD OF EACH INTERIOR STAIR SHALL BE MARKED BY A STRIPE OF CLEARLY CONTRASTING COLOR 2" WIDE MINIMUM & 4"WIDE MAXIMUM AND PLACED PARALLEL TO, AND NOT MORE THAN, 1" FROM THE NOSE OF THE STEP OR LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIPE IS TO EXTEND THE FULL WIDTH OF THE STEP. THE STRIPE SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE TREADS OF THE STAIR.
3. WHERE STAIRS OCCUR OUTSIDE OF A BUILDING, THE UPPER APPROACH AND ALL TREADS SHALL BE MARKED BY A STRIPE OF CLEARLY CONTRASTING COLOR 2" WIDE MIN & 4" WIDE MAX. AND PLACED PARALLEL TO, AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OF LANDING TO ALERT THE VISUALLY IMPAIRED. THE STRIPE IS TO EXTEND THE FULL WIDTH OF THE STEP. THE STRIPE SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP-RESISTANT AS THE TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE.
4. ALL STAIR TREAD SURFACES SHALL BE SLIP-RESISTANT.

HANDRAILS ON STAIRS

1. HANDRAILS AT STAIRWAYS SHALL BE 34" TO 38" ABOVE THE NOSING OF THE TREADS.
2. HANDRAILS AT THE TOP OF STAIRWAYS SHALL EXTEND A MINIMUM OF 12" OF LEVEL DISTANCE BEYOND THE TOP NOSING. HANDRAILS AT THE BOTTOM OF STAIRWAYS SHALL EXTEND A MINIMUM OF TREAD WIDTH PLUS 12" BEYOND THE BOTTOM NOSING BEFORE THEY ARE RETURNED. AT THE BOTTOM, THE HANDRAIL SHALL CONTINUE TO SLOPE FOR A DISTANCE OF THE WIDTH OF ONE TREAD FROM THE BOTTOM RISER. THE REMAINDER OF THE EXTENSION IS HORIZONTAL (LEVEL).
3. WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF THE STAIR RUN WOULD CREATE A HAZARD, THE EXTENSION SHALL BE MADE AT RIGHT ANGLES, ON THE FACE OF A RETURNING WALL. WHERE THE STAIRS ARE CONTINUOUS THE HANDRAIL SHALL BE CONTINUOUS AND NEED NOT EXTEND OUT INTO THE LANDING.
4. HANDRAILS SHALL NOT REDUCE THE REQUIRED WIDTH OF STAIR. WHERE HANDRAIL EXTENSIONS PROTRUDE MORE THAN 4 1/2" INTO AN ADJACENT ROUTE OF TRAVEL, PROVIDE CANE-DETECTABLE RAIL AT 27" ABOVE LANDING.
5. HANDRAILS SHALL BE CONTINIOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

RAMPS

1. ALL RAMPS USED AS EXITS AND ANY PATH OF TRAVEL HAVING A SLOPE GREATER THAN 1:20 SHALL COMPLY WITH THE REQUIREMENTS OF THIS SECTION. RAMPS SHALL HAVE THE LEAST POSSIBLE SLOPE.
2. PEDESTRIAN RAMPS SHALL HAVE A MINIMUM WIDTH OF 48". RAMPS SERVING AN OCCUPANCY LOAD GREATER THAN 300 SHALL HAVE A MINIMUM WIDTH OF 60".
3. ALL RAMPS IN AREAS ACCESSIBLE TO PERSONS WITH DISABILITIES ON A PATH OF TRAVEL OR SERVING EXITS SHALL HAVE A 1:12 MAXIMUM SLOPE WITH CROSS SLOPES NO GREATER THAN 1:50. LANDINGS NOT TO EXCEED 1:50 IN ANY DIRECTION.
4. INTERMEDIATE LANDINGS OCCURRING AT NO DIRECTION CHANGE TO BE 60" LONG, RAMPS W/ INTERMEDIATE LANDING < OR EQUAL TO 30 DEGREES SHALL BE OF 60" LENGTH AND 60" WIDTH. INTERMEDIATE LANDINGS OCCURRING AT > EQUAL TO 30 DEGREES SHALL BE OF 72" LENGTH AND 60" WIDTH.
5. THE LEVEL LANDING WIDTH OF ANY RAMP SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY EXTERIOR DOOR OR GATE.
6. DOORS STANDING IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP TO LESS THAN 42" OR THE REQUIRED WIDTH BY MORE THAN 3".
7. HANDRAILS ARE REQUIRED ON RAMPS WHEN THE SLOPE EXCEEDS 1:20 (5%). HANDRAILS AT RAMPS SHALL RUN ALONG BOTH SIDES OF A RAMP, BE CONTINUOUS THE FULL LENGTH, AND EXTENSIONS AT THE TOP AND BOTTOM OF THE RAMP SHALL BE 12" MIN.
8. THE HANDRAIL GRIP SURFACE AT RAMPS SHALL BE MOUNTED BETWEEN 34" AND 38" ABOVE THE RAMP SURFACE.
9. ALL HANDRAIL ENDS SHALL BE RETURNED OR SHALL TERMINATE IN NEWEL POSTS OR SAFETY TERMINALS.
10. ALL HANDRAILS PROJECTED FROM A WALL SHALL BE MOUNTED WITH A MINIMUM 1-1/2 INCHES BETWEEN THE WALL AND THE HANDRAIL.
11. THE HAND GRIP PORTION OF HANDRAILS SHALL BE NOT LESS THAN 1-1/4" NOR MORE THAN 2" IN CROSS-SECTIONAL DIMENSION OR SHAPE AND SHALL PROVIDE AN EQUIVALENT SMOOTH GRIPPING SURFACE WITH NO SHARP CORNERS. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4"MIN. AND 6 1/4" MAX. AND A CROSS SECTION DIMENSION OF 2 1/4" MAX.
12. HANDRAILS CANNOT PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP MORE THAN 3 1/2" FROM EACH SIDE OF THE RAMP AT THE HANDRAIL HEIGHT.

SANITARY FACILITIES (GENERAL)

1. ALL DOORWAYS LEADING TO SANITARY FACILITIES SHALL HAVE 32" CLEAR, UNOBSTRUCTED OPENINGS.
2. ALL SINKS, FAUCET CONTROLS, AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVER-OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
3. LAVATORIES SHALL BE MOUNTED WITH A MINIMUM DISTANCE OF 18" FROM A WALL OR PARTITION TO THE CENTER OF THE FIXTURE. ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM AND/OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FLOOR.

D1 T-3 DISABLED ACCESS REQUIREMENTS
SCALE: 1/8" = 1'-0"

TOILET ROOM FIXTURES AND ACCESSORIES

1. THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE A MINIMUM OF 17" AND A MAXIMUM OF 19" MEASURED TO THE TOP OF THE TOILET SEAT.
2. PROVIDE 17" MINIMUM - 18" MAXIMUM FROM THE CENTERLINE OF THE WATER CLOSET TO THE ADJACENT WALL.
3. TOILET AND URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE OPEN (WIDE) SIDE OF THE TOILET STALL. TOILET AND URINAL FLUSH CONTROLS SHALL BE NO MORE THAN 44" ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
4. WHERE URINALS ARE PROVIDED, AT LEAST ONE SHALL HAVE A CLEAR SPACE 30" WIDE BY 48" LONG IN FRONT OF THE URINAL. AT LEAST ONE URINAL WITH 13 1/2" MIN. RIM PROJECTION FROM THE WALL AND A MAXIMUM OF 17" ABOVE THE FLOOR SHALL BE INSTALLED.
5. AMBULATORY STALLS ARE REQUIRED WHERE 6 OR MORE STALLS ARE PROVIDED WITHIN A MULTIPLE ACCOMODATION TOILET ROOM OR WHERE THE COMBINATION OF URINALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE 60" DEEP MIN. AND 35"MIN - 37" MAX WIDE. COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.
6. A CLEAR FLOOR SPACE 30" WIDE BY 48" LONG SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH. SUCH CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH LAVATORY.
7. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH 27" MINIMUM KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH WITH 8" MINIMUM DEPTH AT THE TOP. TOE CLEARANCE SHALL BE SAME WIDTH AND A MINIMUM OF 9 INCHES HIGH FROM THE FLOOR AND A MINIMUM OF 17"-19"MAXIMUM DEEP FROM THE FRONT OF THE LAVATORY.
8. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
9. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL HAVE BOTTOM OF REFLECTIVE SURFACE 40" MAX. ABOVE FINISHED FLOOR; MIRRORS MOUNTED ELSEWHERE SHALL HAVE BOTTOM EDGE OF REFLECTIVE SURFACE 35" MAX. ABOVE FINISHED FLOOR. TOP EDGE OF MIRRORS SHOULD BE 74" HIGH TO BE USEABLE BY AMBULATORY PEOPLE.
10. LOCATE PAPER TOWEL DISPENSERS, SANITARY NAPKIN DISPENSERS, AND WASTE RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40" FROM THE FLOOR.
11. LOCATE TOILET TISSUE DISPENSERS ON THE WALL 7-9" FROM THE FRONT OF THE WATER CLOSET TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 19" MIN. ABOVE FINISHED FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINIOUS PAPER FLOW.
12. DOORS CANNOT SWING INTO THE REQUIRED CLEAR FLOOR SPACE AT ANY FIXTURE OTHER THAN THE DOOR TO THE ACESSIBLE WATER CLOSET COMPARTMENT. A DOOR, IN ANY POSITION, MAY ENCROACH INTO THE TURNING SPACE BY 12" MAX
13. CLEARANCE AROUND WATER CLOSET SHALL BE 60" WIDE x 56" DEEP PROVIDED IN FRONT OF THE WATER CLOSET, NO OTHER FIXTURES CAN BE LOCATED WITHIN THIS AREA. A MIN. 60" WIDE AND 48" DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.
14. SANITARY NAPKIN DISPOSAL UNITS, IF PROVIDED, SHALL COMPLY WITH SECTION 11B-309.4 AND SHALL BE WALL MOUNTED AND LOCATED ON THE SIDE WALL BETWEEN THE REAR WALL OF THE TOILET AND THE TOILET PAPER DISPENSER. ADJACENT TO THE TOILET PAPER DISPENSER. THE DISPOSAL UNIT SHALL BE LOCATED BELOW THE GRAB BAR WITH THE OPENING OF THE DISPOSAL UNIT 19 INCHES MINIMUM ABOVE THE FINISH FLOOR.

MULTIPLE ACCOMMODATION TOILET ROOMS

1. A CLEAR SPACE, MEASURED FROM THE FLOOR TO A HEIGHT OF 27" ABOVE THE FLOOR, WITHIN THE SANITARY FACILITY ROOM, OF SUFFICIENT SIZE TO INSCRIBE A CIRCLE OF A DIAMETER NOT LESS THAN 60 INCHES, OR A T SHAPED SPACE IN ACCORDANCE WITH 11B-304.3.2 SHALL BE PROVIDED.
2. CLEARANCE AROUND A WATER CLOSET SHALL BE 60" MIN. MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56" MIN. MEASURED PERPENDICULAR FROM THE REAR WALL. A 48" LONG CLEAR SPACE IN FRONT OF WATER CLOSET SHALL BE PROVIDED IF THE COMPARTMENT HAS AN END OPENING DOOR (FACING THE WATER CLOSET). A 60" LONG CLEAR SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOOR IS LOCATED AT THE SIDE. GRAB BARS SHALL NOT PROJECT MORE THAN 3" INTO CLEAR SPACE SPECIFIED ABOVE.
3. WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32" WHEN LOCATED AT THE END, AND 34" WHEN LOCATED AT SIDE. WHEN THE DOOR IS POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
4. EXCEPT FOR DOOR OPENINGS, A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 44" SHALL BE PROVIDED TO ALL WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF A WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48" AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.
5. THE WATER CLOSET AND DOOR MANEUVERING CLEARANCE CANNOT OVERLAP IN THE ACCESSIBLE STALL.
6. STALL DOORS TO BE HINGED 4" MAXIMUM OPPOSITE THE WATER CLOSET FOR FRONT OR SIDE OPENING DOORS.
7. STALL DOORS CANNOT SWING INTO THE REQUIRED CLEAR AREA AT THE WATER CLOSET.
8. A DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.

GRAB BARS

1. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 33" MINIMUM-36" MAXIMUM, MEASURED TO THE TOP OF GRIPING SURFACE, ABOVE AND PARALLEL TO THE FLOOR.
2. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 54"MINIMUM FROM THE BACK OF THE STALL AND WITH THE FRONT END POSITIONED 24" MINIMUM IN FRONT OF THE WATER CLOSET. THE SIDE GRAB BAR SHALL BE LOCATED 12" MAXIMUM FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL NOT BE LESS THAN 36" LONG AND SHALL EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12" MINIMUM ON ONE SIDE AND 24"MINIMUM ON THE OTHER SIDE.
3. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4"MIN AND 2" MAXIMUM. GRAB BARS WITH NON CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS SECTION DIMENSION OF 2" MAXIMUM AND A PERIMETER DIMENSION OF 4" MIN AND 4.8" MAXIMUM. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2".
4. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
5. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
6. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE.
7. NO OBJECT TO BE MOUNTED WITHIN 1 1/2" BELOW OR 12" ABOVE ANY GRAB BAR.

SIGNAGE

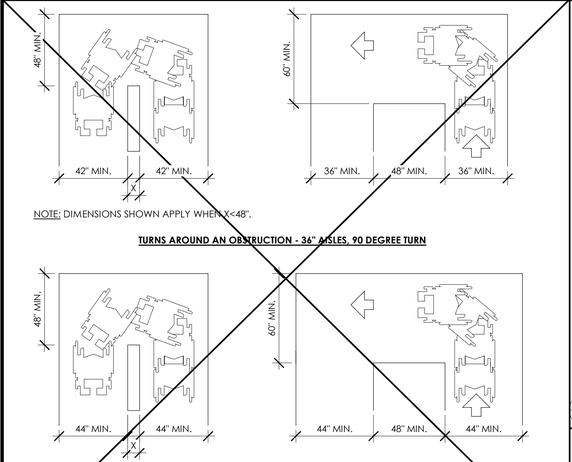
1. BASELINE OF THE HIGHEST LINE OF RAISED CHARACTER TO BE 60" MAXIMUM AND BASELINE OF THE LOWEST BRAILLE CELLS TO BE 48" MINIMUM ABOVE FINISHED FLOOR.
2. TACTILE ROOM IDENTIFICATION SIGNS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18" MIN. x 18" MIN. CENTERED ON SIGN IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING.

TELEPHONES

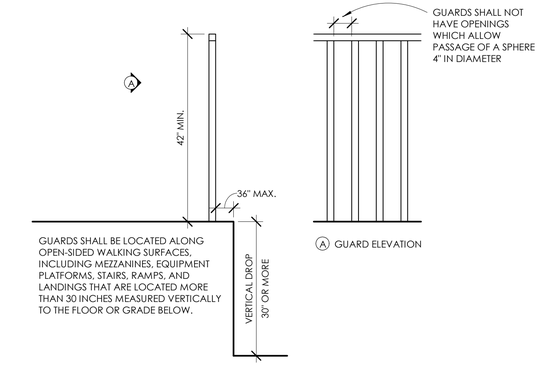
1. PROVIDE A 30" X 48" CLEAR SPACE AT TELEPHONE. THE CLEAR SPACE MAY INCLUDE KNEE SPACE UNDER THE TELEPHONE.
2. THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE 48" MAX.
3. TELEPHONES MOUNTED IN A CORNER THAT REQUIRE WHEELCHAIR USERS TO REACH DIAGONALLY SHALL HAVE THE HIGHEST OPERABLE PART NO HIGHER THAN 48" AFF.
4. THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29" LONG.
5. ALL PUBLIC TELEPHONES SHALL HAVE VOLUME CONTROL AND BE IDENTIFIED WITH APPROPRIATE SIGNAGE
6. TELEPHONES SHALL HAVE PUSH-BUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IS AVAILABLE. ALL OPERABLE PARTS, INCLUDING BUT NOT LIMITED TO COIN RETURN, SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO ACTIVATE OPERABLE PARTS SHALL NOT EXCEED 5LBS MAX.

ADDITIONAL REQUIREMENTS

1. THE TOP OF THE BOX OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY OCCUPANTS OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
2. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL COMPLY WITH SECTION 11B-308 EXCEPT THE LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND THE HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX.
3. HIGHEST OPERABLE PART OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED NO LESS THAN 42" AND NOT MORE THAN 48" MEASURED VERTICALLY FROM ABOVE THE LEVEL OF THE ADJACENT FLOOR, WORKING PLATFORM, GROUND SURFACE, OR SIDEWALK TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOTTOM.
4. INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS. THE SYMBOL SPECIFIED ABOVE SHALL CONSIST OF A WHITE FIGURE ON BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 595C.
5. ALL CONTROLS TO BE 15" MIN. TO 48" MAX., REGARDLESS OF APPROACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEA



A1 T-4 TURNS AROUND AN OBSTRUCTION
SCALE: NTS

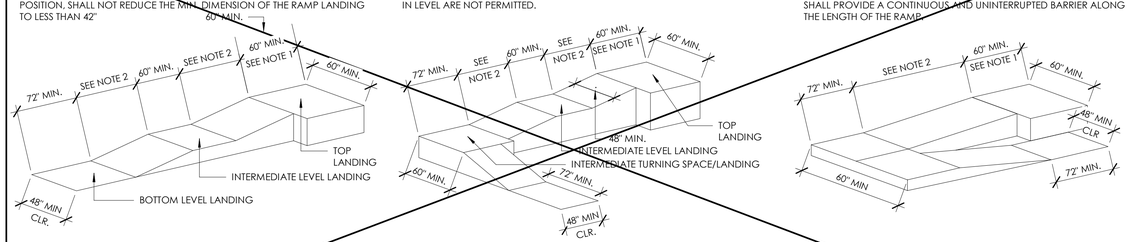


A2 T-4 GUARD DETAIL
SCALE: 3/4" = 1'-0"

NOTE 1: WHERE DOORS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. DOORS WHEN FULLY OPEN SHALL NOT REDUCE THE REQUIRED RAMP LANDING WIDTH BY MORE THAN 3". DOORS IN ANY POSITION, SHALL NOT REDUCE THE MIN. DIMENSION OF THE RAMP LANDING TO LESS THAN 42"

NOTE 2: MAXIMUM HORIZONTAL DISTANCE OF EACH RAMP AND RUN VARY
NOTE 3: RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12
NOTE 4: CROSS SLOPE OF RAMPS SHALL NOT BE STEEPER THAN 1:48
NOTE 5: LANDINGS SHALL COMPLY W/ SECTION 11B-405.7 &11B-302. CHANGES IN LEVEL ARE NOT PERMITTED.

NOTE 6: A CURB, 2" HIGH MINIMUM, OR A BARRIER SHALL BE PROVIDED THAT PREVENTS PASSAGE OF A 4" DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4" OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP.



NOTE 7: RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 72" MINIMUM BY 72" MINIMUM.

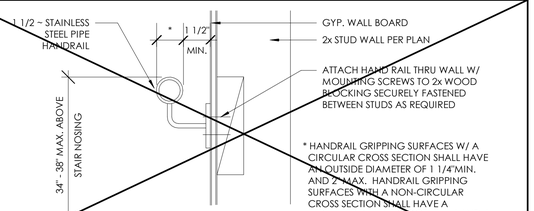
SEE B4/T-7 FOR RAMP HANDRAIL

STRAIGHT RAMP RUN

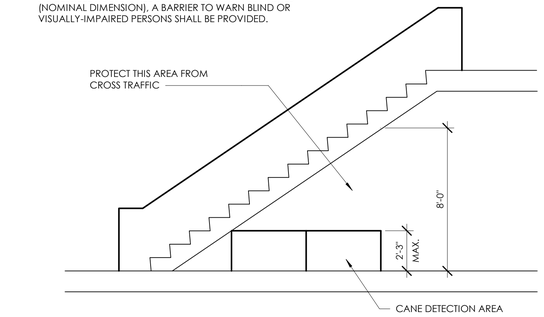
RAMP WITH TURNING PLATFORM (WHEN DIRECTION OF RAMP CHANGES 30 DEGREES OR MORE)

RAMP WITH INTERMEDIATE SWITCH-BACK PLATFORM

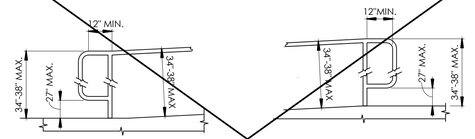
A3 T-4 RAMP DETAILS
SCALE: N.T.S.



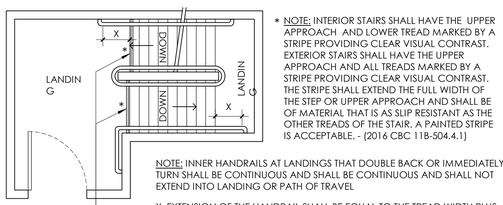
B1 T-4 STAIR HANDRAIL
SCALE: 3" = 1'-0"

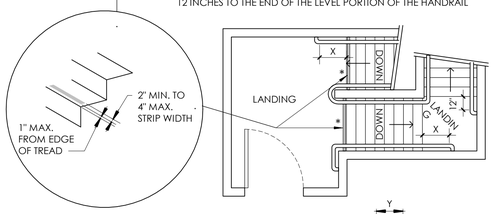


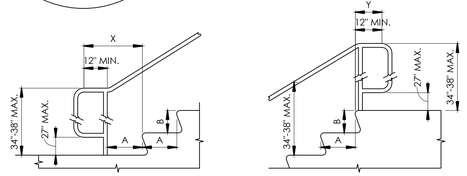
B2 T-4 CANE DETECTION AT OVERHEAD HAZARD
SCALE: 1/4" = 1'-0"



B3 T-4 RAMP HANDRAILS AND HANDRAIL EXTENSIONS
SCALE: NTS

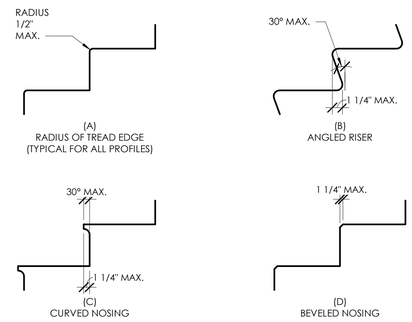






NOTES:
HANDRAILS TO BE PROVIDED AT EACH SIDE OF STAIRWAY FLIGHT. HANDRAILS SHALL RETURN SMOOTHLY TO FLOOR, WALL OR POST.
ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTHS.
ALL TREAD SURFACES AND STRIPING MATERIAL SHALL BE SLIP-RESISTANT.
OPEN RISERS ARE NOT PERMITTED.

D1 T-4 STAIRWAY TREADS, RISERS AND HANDRAIL EXTENSIONS
SCALE: NTS



C2 T-4 STAIR NOSINGS
SCALE: NTS

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

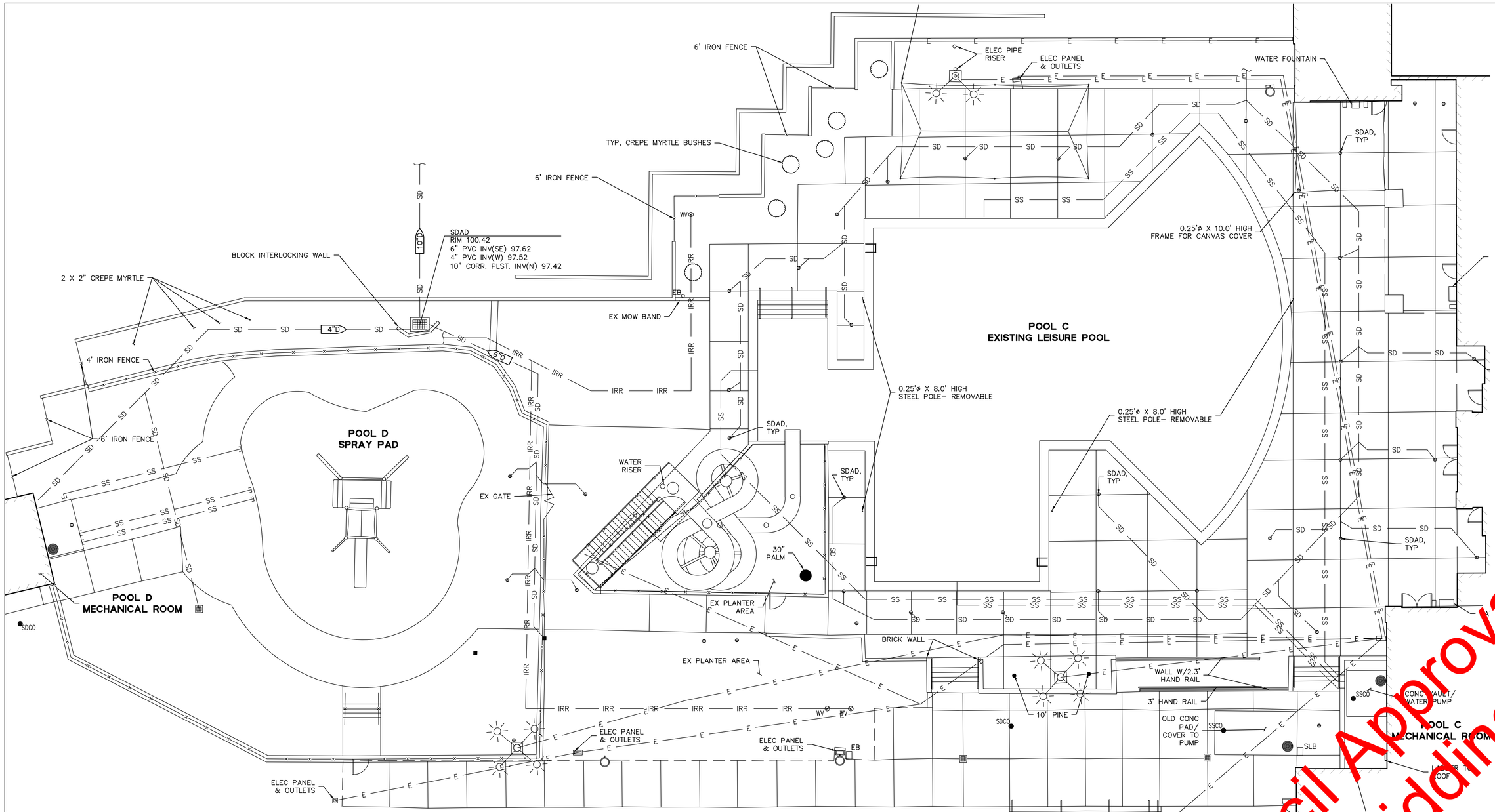
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2	75% CD	05/17/21
3	99% CD	07/13/21
4	100% CD/BID SET	08/20/21

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Approved By: JK
Checked By: MK
Drawn By: ACJ

Sheet Title:
ACCESSIBILITY DETAILS

SHEET NUMBER:
T-4

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Not for Bidding



EXISTING CONDITION NOTES

1. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE KNOWN UNDERGROUND UTILITIES. THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND WERE OBTAINED FROM VARIOUS SOURCES, INCLUDING TOPOGRAPHIC FIELD SURVEYS, AND AS–BUILT DRAWINGS PROVIDED BY THE PROPERTY OWNER. ABANDONED UNDERGROUND UTILITIES MAY EXIST, THE LOCATION OF WHICH ARE NOT KNOWN. CONTRACTOR IS CAUTIONED THAT THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS MAY NOT BE THE TYPES, LOCATIONS, EXTENTS, SIZES AND DEPTHS ENCOUNTERED IN THE FIELD.

2. ONLY EXCAVATION AND PHYSICAL EXPOSURE WILL REVEAL THE ACTUAL TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK. CONTRACTOR SHALL RETAIN A PRIVATE UTILITY LOCATOR TO IDENTIFY EXISTING UTILITIES. THE CONTRACTOR SHALL POTHOLE AS NECESSARY AT CONNECTION LOCATIONS AND PROPOSED UTILITY CROSSINGS TO FULLY LOCATE AND IDENTIFY EXISTING UTILITIES. POTHOLING SHALL BE DONE AND THE RESULTS, INCLUDING ANY CONFLICTS IDENTIFIED, REPORTED TO THE ENGINEER PRIOR TO THE START OF WORK.

3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK TO AVOID CONFLICTS BETWEEN SEWER LATERALS, STORM DRAINS, WATER MAINS, AND ALL OTHER UNDERGROUND UTILITIES.

4. UTILITY INFORMATION IS OBTAINED BY AS–BUILT INFORMATION AS WELL AS SURVEY OBSERVATION. ALL EXISTING UTILITY INFORMATION IN THIS PLAN SET IS IDENTIFIED PER THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD FOR LEVEL OF QUALITY. BELOW IS A LIST OF THE LEVEL OF QUALITY CATEGORIES WITH THE ASSOCIATED DEFINITION PER ASCE STANDARDS.

   (C) – INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE–GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

   (D) – UTILITY LOCATION INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

ABBREVIATIONS

AB	AGGREGATE BASE
ABBREV	ABBREVIATION
AC	ASPHALT CONCRETE
AD	AREA DRAIN
BC	BACK OF CURB
BFP	BACKFLOW PREVENTION DEVICE
BLDG	BUILDING
BOW	BACK OF WALL
BS	BOTTOM OF STEP
CC,CONC	CONCRETE
CO	CLEANOUT
CORR.	CORRUGATED PLASTIC
DW	DOMESTIC WATER
DWG	DRAWING
(E)	EAST
(E), EX	EXISTING
E	ELECTRICAL
EB	ELECTRICAL BOX
ELEV	ELEVATION
FH	FIRE HYDRANT
FW	FIRE WATER
GB	GRADE BREAK
INV	INVERT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
(N)	NORTH
(N)	NEW
(NE)	NORTHEAST
(NW)	NORTHWEST
NO	NUMBER
PCC	PORTLAND CEMENT CONCRETE
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RIM	RIM ELEVATION
(S)	SOUTH
(SE)	SOUTHEAST
(SW)	SOUTHWEST
SAD	SEE ARCHITECTURAL DRAWINGS
SD	STORM DRAIN
SDAD	STORM DRAIN AREA DRAIN
SDCB	STORM DRAIN CATCH BASIN
SDCO	STORM DRAIN CLEANOUT
SDDI	STORM DRAIN DRAIN INLET
SDMH	STORM DRAIN MANHOLE
SED	SEE ELECTRICAL DRAWINGS
SL	STREET LIGHT
SLB	STREET LIGHT BOX
SPD	SEE PLUMBING DRAWINGS
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
SSD	SEE STRUCTURAL DRAWINGS
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
TC	TOP OF CURB
TFC	TOP OF FLUSH CURB
TS	TOP OF STEP
TYP	TYPICAL

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

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75% CD	05/20/21
100% CD	07/14/21

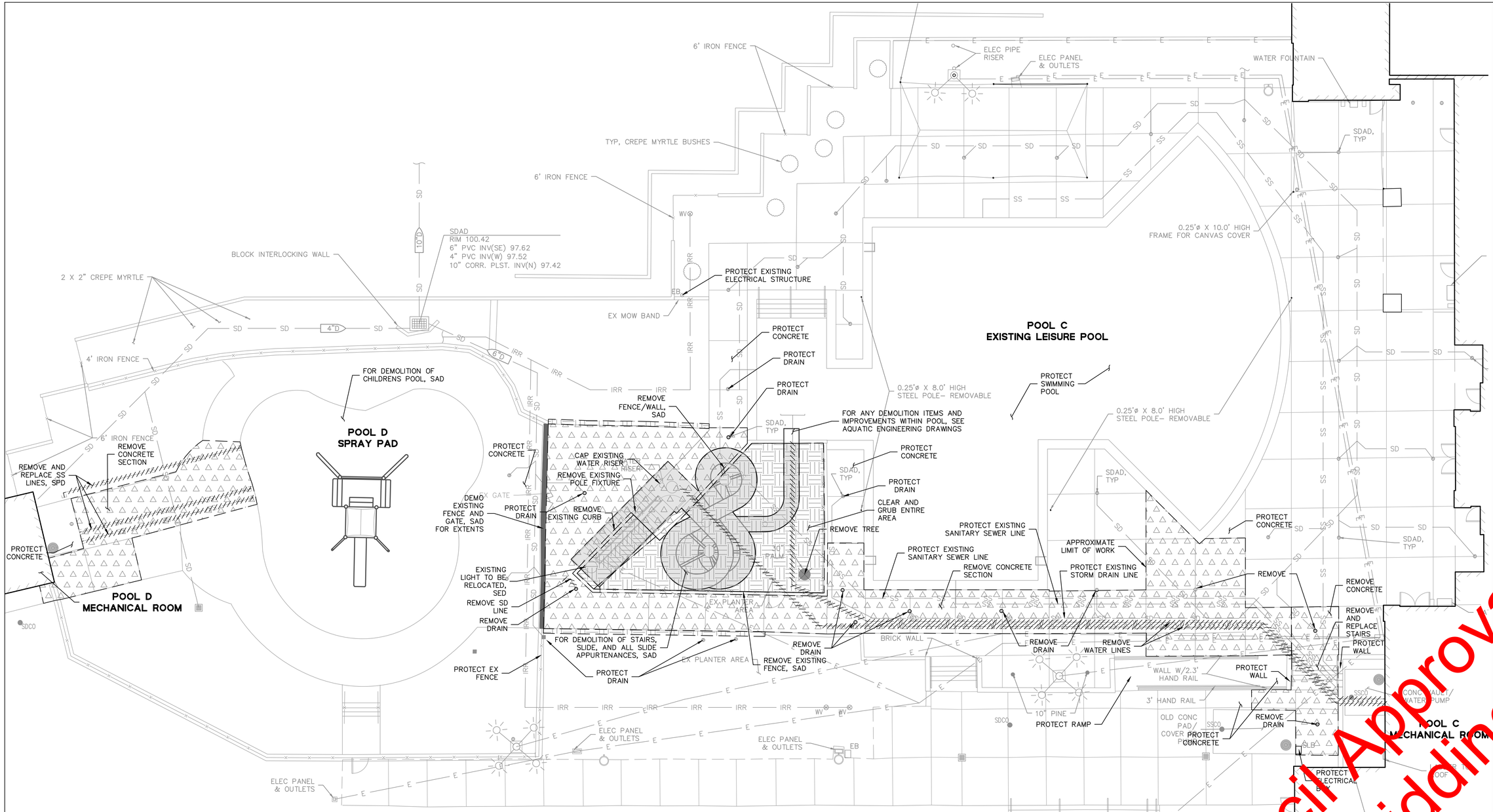
Project Number:	200204
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Checked By:	CM
Drawn By:	MM

Sheet Title:

EXISTING CONDITIONS

SHEET NUMBER:

C101



DEMOLITION LEGEND

- REMOVE CONCRETE SECTION
- REMOVE WATER SLIDE AND APPURTENANCES
- CLEAR AND GRUB
- REMOVE CURB
- REMOVE EXISTING UTILITY LINE

DEMOLITION NOTES

1. CONTRACTOR TO USE CAUTION WHEN WORKING ADJACENT TO EXISTING BUILDING.
2. CONTRACTOR TO CLEAR AND GRUB WITHIN THE LIMITS OF PROPOSED WORK, UNLESS OTHERWISE NOTED ON PLANS.
3. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS.
4. THE UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
5. THE CONTRACTOR IS REQUIRED BY STATE LAW TO ACTIVELY RESEARCH THE WORK AREA PRIOR TO COMMENCEMENT OF CONSTRUCTION, REFERENCE ANY MONUMENTS, AND REPLACE THOSE DAMAGED OR REMOVED DURING CONSTRUCTION.
6. THE LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING SURROUNDINGS, LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, AND SIDEWALKS AND AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES OR HAZARDOUS CONDITIONS.
7. EXISTING CURB AND SIDEWALK AND LANDSCAPE/IRRIGATION WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
8. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
9. EXISTING CONCRETE SHALL BE REMOVED AT THE NEAREST EXPANSION JOINTS.

GRAPHIC SCALE
10 0 10 20

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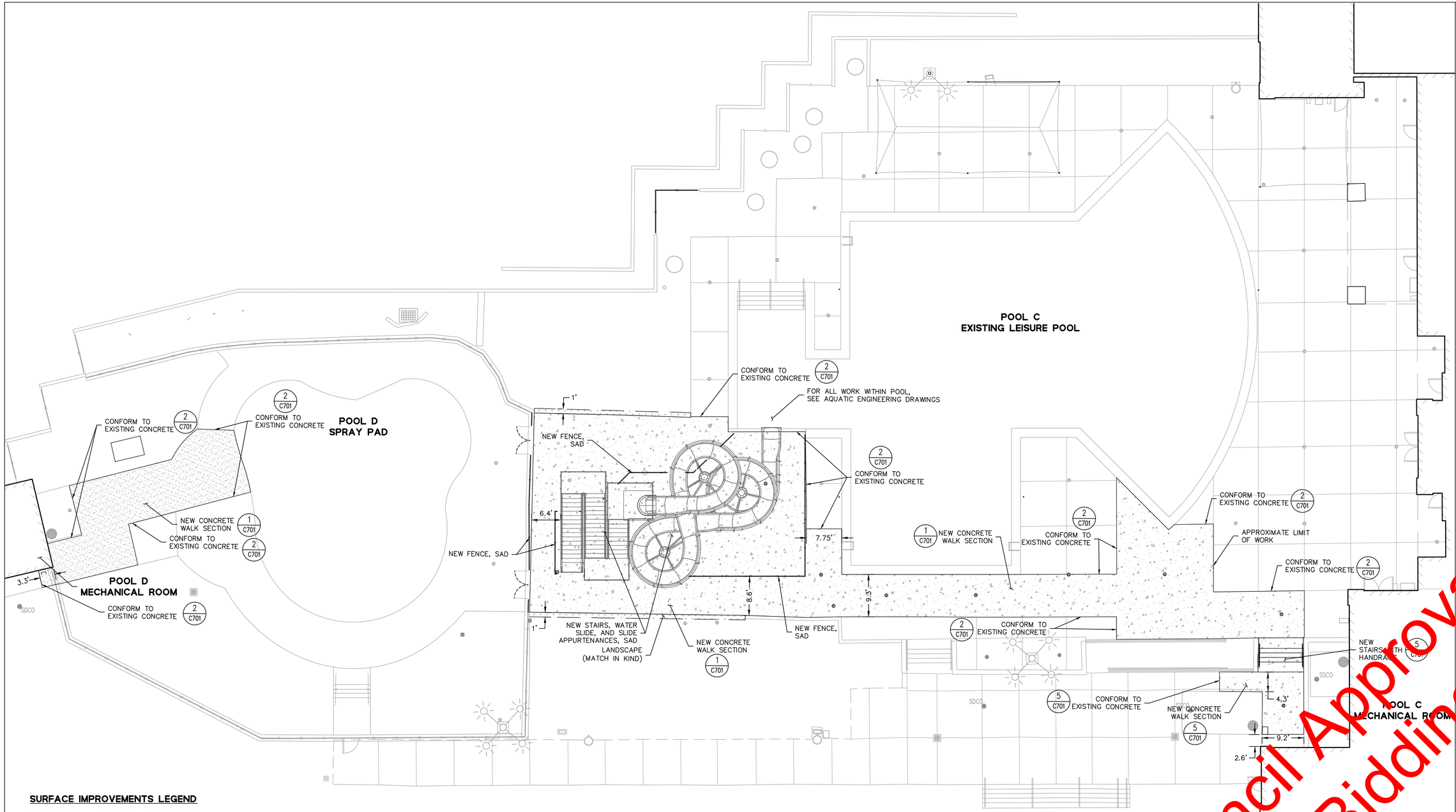
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DEMOLITION PLAN

SHEET NUMBER:

C201



SURFACE IMPROVEMENTS LEGEND

- PEDESTRIAN CONCRETE WALK (5" PCC / 6" CLASS II AB #3 REBAR @ 18" O.C.E.W)
- PEDESTRIAN CONCRETE WALK (5.5" PCC / 6" #3 REBAR @ 18" O.C.E.W)
- LANDSCAPING AND IRRIGATION (MATCH IN KIND)

SURFACE IMPROVEMENTS NOTES

1. THE LIMITS OF WORK ARE APPROXIMATE ONLY. CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING SURROUNDINGS, LANDSCAPE, AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION, AVOIDING ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS-SLOPES OR HAZARDOUS CONDITIONS.
2. ALL NEW CONCRETE SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS, INCLUDING DIAGONAL.
3. EXISTING CONCRETE SHALL BE REMOVED AT THE NEAREST EXPANSION JOINTS.
4. NEW WORK SHALL MATCH EXISTING AS CLOSELY AS POSSIBLE IN FINISH, SCORING, AND COLOR.
5. EXISTING SITE FEATURES (CURBS, CONCRETE WALKS, LANDSCAPE, IRRIGATION, ETC.) DEMOLISHED DURING CONSTRUCTION SHALL BE REPLACED IN KIND.

GRAPHIC SCALE
10 0 10 20

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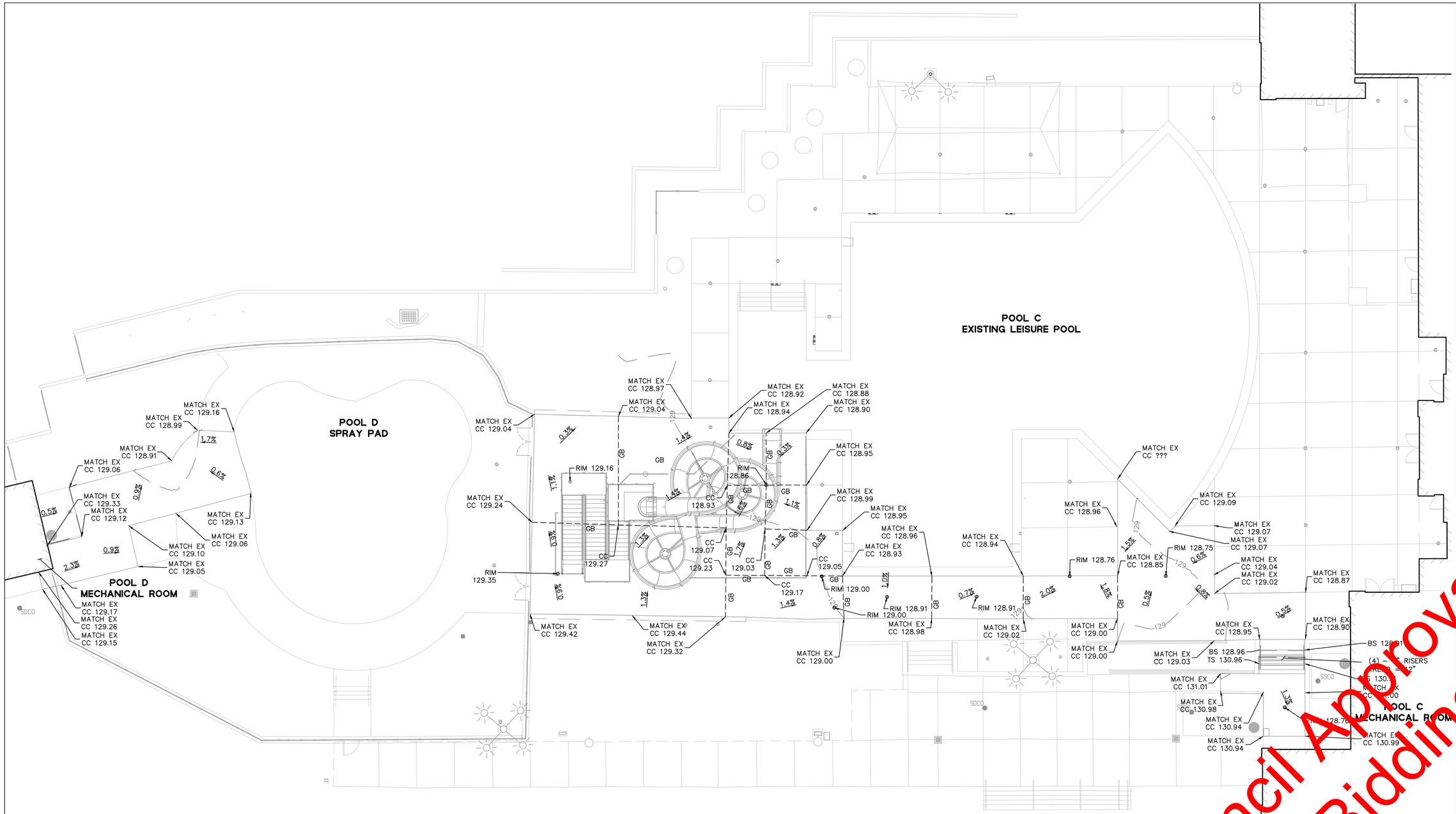
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SURFACE IMPROVEMENT PLAN

SHEET NUMBER:

C301



LEGEND

- GRADE BREAK
- MAJOR CONTOUR
- MINOR CONTOUR
- BW XX.XX — ELEVATION LABEL:
  - BS BOTTOM OF STEP
  - CC CONCRETE
  - EX EXISTING ELEVATION
  - FL FLOWLINE
  - RIM RIM ELEVATION
  - TC TOP OF CURB
  - TFC TOP OF FLUSH CURB
  - TS TOP OF STEP

GRADING NOTES

1. PROPOSED SITE PLAN AND UTILITIES HAS BEEN SCREENED FOR CLARITY.
2. GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE PROJECT GEOTECHNICAL REPORT.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE-TENTH OF A FOOT IN LANDSCAPED AREAS AND TWO-HUNDREDTHS OF A FOOT IN HARDSCAPED OR PAVED AREAS. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
4. CONTRACTOR SHALL FIELD VERIFY FINISHED FLOOR ELEVATIONS OF EXISTING BUILDINGS PRIOR TO STARTING CONSTRUCTION.
5. CONTRACTOR SHALL TAKE CAUTION WHEN GRADING ADJACENT TO EXISTING BUILDINGS, TO PROTECT EXISTING FOUNDATIONS AND TO NOT TO COVER EXISTING VENTS.
6. ALL STRUCTURES WITHIN THE PEDESTRIAN PATHWAY SHALL MEET ADA REQUIREMENTS. STRUCTURES WITH GRATES SHALL HAVE OPENINGS 1/2" MAXIMUM WIDE AND ELONGATED IN THE DIRECTION PERPENDICULAR TO THE DIRECTION OF DOMINANT PEDESTRIAN TRAVEL.
7. WHERE IMPROVEMENTS INVOLVE ADA ACCESSIBILITY, CONTRACTOR'S ATTENTION IS DIRECTED TO THE FOLLOWING PARAMETERS THAT NEED TO BE MET WITH THE FINISHED CONSTRUCTION:
   a. WALKWAYS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 4.9% AND A MAXIMUM CROSS SLOPE OF 2%.
   b. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS, INCLUDING DIAGONAL.
   c. ADA PARKING STALLS AND STRIPED AISLE SHALL HAVE A MAXIMUM SLOPE OF 2% IN ALL DIRECTIONS, INCLUDING DIAGONAL.
   d. TRANSITIONS BETWEEN PROPOSED IMPROVEMENTS AND EXISTING CONDITIONS SHALL BE SMOOTH AND FREE OF ABRUPT CHANGES.

*** CONTRACTOR SHALL FIELD VERIFY EXISTING GRADES AT CONFORMS PRIOR TO FORMING/AC WORK.**

GRAPHIC SCALE
10 0 10 20

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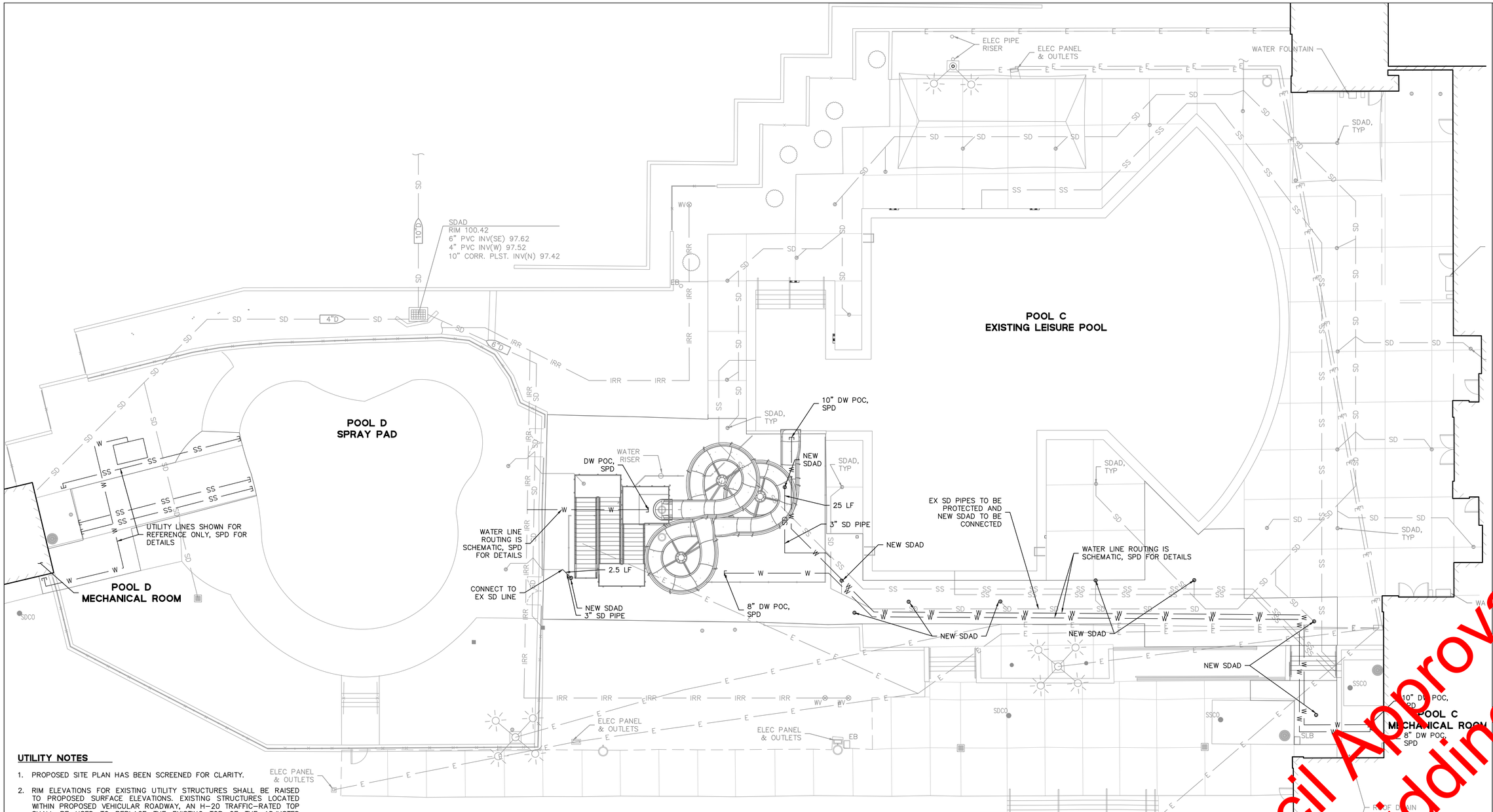
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Drawn By:	MM

Sheet Title:

GRADING PLAN

SHEET NUMBER:

C401



UTILITY NOTES

1. PROPOSED SITE PLAN HAS BEEN SCREENED FOR CLARITY.
2. RIM ELEVATIONS FOR EXISTING UTILITY STRUCTURES SHALL BE RAISED TO PROPOSED SURFACE ELEVATIONS. EXISTING STRUCTURES LOCATED WITHIN PROPOSED VEHICULAR ROADWAY, AN H-20 TRAFFIC-RATED TOP SHALL BE USED TO REPLACE THE EXISTING TOP OF THE ADJUSTED STRUCTURE. ALL STRUCTURES WITHIN THE PEDESTRIAN PATHWAY SHALL MEET ADA REQUIREMENTS. STRUCTURES WITH GRATES SHALL HAVE OPENINGS ½" MAXIMUM WIDE AND ELONGATED IN THE DIRECTION PERPENDICULAR TO THE DIRECTION OF DOMINANT PEDESTRIAN TRAVEL.
3. PROTECT ALL EXISTING UTILITIES AND SITE FEATURES FROM BEING DAMAGED, UNLESS OTHERWISE NOTED. ALL UTILITIES AND IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.
4. THE EXISTING UTILITY LINES AND STRUCTURES SHOWN ON THESE PLANS ARE DERIVED FROM RECORD DATA, UNDERGROUND UTILITY SURVEY AND/OR SURFACE OBSERVATION AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES AND STRUCTURES NOT SHOWN ON THIS PLAN, SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
5. EXISTING UNDERGROUND UTILITIES, INCLUDING THOSE MARKED UNKNOWN, ARE BASED ON SURVEY COMPLETED BY OTHERS AND PROVIDED TO BKF ENGINEERS FOR INCLUSION IN PLANS.
7. EXISTING PIPE LINES MAY HAVE CATHODIC PROTECTION. CONTRACTOR SHALL ENSURE THAT ALL CONNECTIONS TO EXISTING PIPE LINES ARE ELECTRICALLY COMMON WITH THE PIPE LINE.
8. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
9. CONTRACTOR SHALL REFER TO CITY OF ROSEVILLE TRENCH BACKFILL DETAIL TB1 AND TB2.

LEGEND

	PROPOSED
WATER	—— W ——
SANITARY SEWER	—— SS ——
STORM DRAIN PVC SCHED 40	—— SD ——
AREA DRAIN NDS ROUND GRATE WITH SPEE-D BASIN, OR APPROVED EQUAL	⊖

GRAPHIC SCALE
10 0 10 20

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
CONCEPT DESIGN	06/25/20
50% CD	08/13/20
75% CD	05/20/21
100% CD	07/14/21

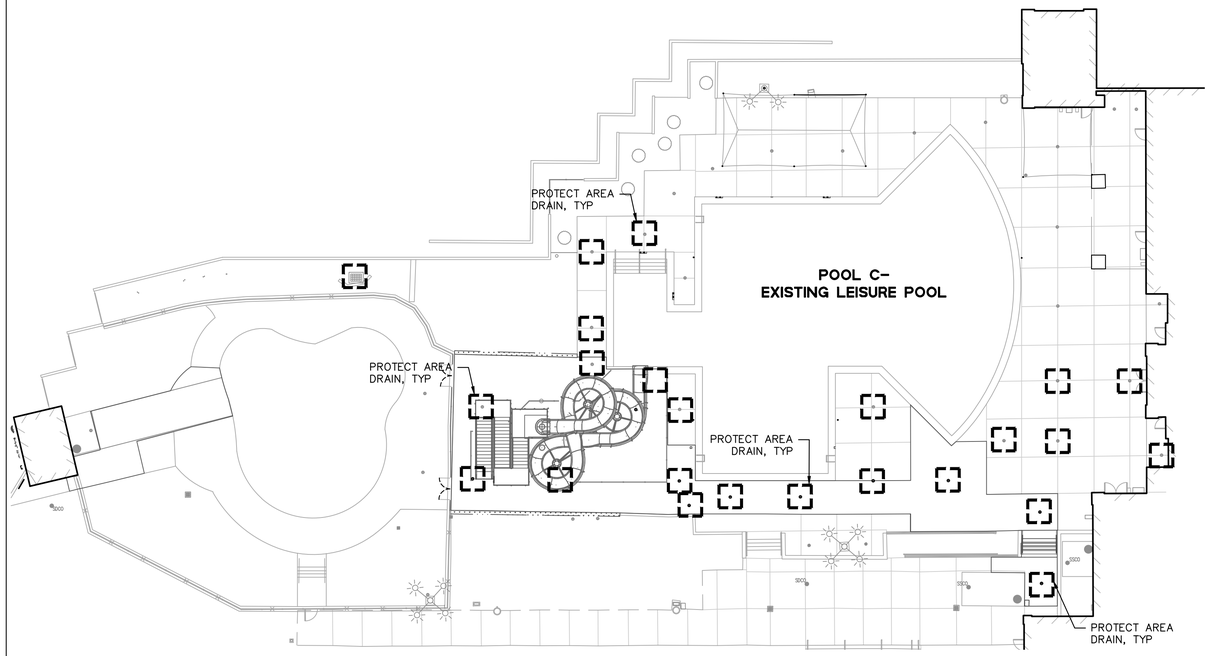
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Approved By:	JM
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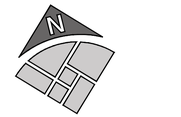
Sheet Title:

UTILITY PLAN

SHEET NUMBER:

C501





GRAPHIC SCALE

20 0 20 40

LEGEND

STORM DRAIN INLET PROTECTION

FIBER ROLL

EROSION CONTROL NOTES:

1. REFERENCE: "CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE (BMP) HANDBOOK", LATEST EDITION.
2. CONSTRUCTION AREAS SHOWN ARE CONCEPTUAL. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR BASED ON CURRENT BEST MANAGEMENT PRACTICES. CONTRACTOR SHALL SUBMIT A CONSTRUCTION STAGING PLAN.
3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN EFFECT AND MAINTAINED BY THE CONTRACTOR ON A YEAR-ROUND BASIS UNTIL ALL DISTURBED AREAS ARE STABILIZED UNLESS OTHERWISE PERMITTED BY THE CITY INSPECTOR.
4. AS PART OF THE GRADING OPERATIONS, THE CONTRACTOR SHALL ENSURE THAT THE SITE IS WATERED PRIOR TO THE COMMENCEMENT OF GRADING.
5. ALL INLETS RECEIVING STORM WATER RUNOFF FROM THE PROJECT AREA MUST BE EQUIPPED WITH REQUIRED INLET PROTECTION.
6. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF ENTERING THE STORM DRAIN SYSTEM.
7. ALL CONCRETE SLURRY SHALL BE CONTAINED IN CONCRETE WASH-OUT AREAS DESIGNATED ON-SITE.
8. STOCKPILED EARTHEN MATERIAL SHALL BE EITHER COVERED WITH A TARP OR WATERED SUFFICIENTLY TO ELIMINATE DUST.
9. TEMPORARY EROSION CONTROLS TO STABILIZE ALL DENUDED AREAS UNTIL PERMANENT EROSION CONTROLS ARE ESTABLISHED.
10. DELINEATE WITH FIELD MARKERS CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES, AND DRAINAGE COURSES.
11. PERFORM CLEARING AND EARTH MOVING ACTIVITIES ONLY DURING DRY WEATHER.
12. USE SEDIMENT CONTROLS OR FILTRATION TO REMOVE SEDIMENT WHEN DEWATERING AND OBTAIN ALL NECESSARY PERMITS.
13. PROTECT ALL STORM DRAIN INLETS IN VICINITY OF SITE USING SEDIMENT CONTROLS SUCH AS BERMS, FIBER ROLLS, OR FILTERS.
14. TRAP SEDIMENT ON-SITE, USING BMPS SUCH AS SEDIMENT BASINS OR TRAPS, EARTHEN DIKES OR BERMS, SILT FENCES, CHECK DAMS, SOIL BLANKETS OR MATS, COVERS FOR SOIL STOCK PILES, ETC.
15. DIVERT ON-SITE RUNOFF AROUND EXPOSED AREAS; DIVERT OFF-SITE RUNOFF AROUND THE SITE (E.G., SWALES AND DIKES).
16. PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OR FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
17. LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
18. NO CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN A DESIGNATED AREA WHERE WASHWATER IS CONTAINED AND TREATED.
19. STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS/WASTES PROPERLY TO PREVENT CONTACT WITH STORMWATER.
20. CONTRACTOR SHALL TRAIN AND PROVIDE INSTRUCTION TO ALL EMPLOYEES/SUBCONTRACTORS RE: CONSTRUCTION BMPS.
21. CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING PAVEMENT CUTTING WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASHWATER OR SEDIMENTS, RINSE WATER FROM ARCHITECTURAL COPPER, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATERCOURSES.
22. CONTRACTOR SHALL PROVIDE INLET PROTECTION AT THE NEAREST DOWNSTREAM STORM DRAIN ALONG PROJECT SITE.

LOCATION OF CONSTRUCTION ACTIVITIES IS PRELIMINARY AND SHALL BE SUPERSEDED BY FINALIZED CONSTRUCTION ACTIVITY LOCATIONS SHOWN/UPDATED BY CONTRACTOR.

REGULAR FLOW

THE INLET SEDIMENT CONTROL DEVICE WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

PUNCTURE (FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

	PROPERTIES	TEST METHOD	UNITS
FLOW RATE	GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
	GRAB TENSILE ELONGATION	ASTM D-4632	20 %
		ASTM D-4833	120 LBS
	MULLEN BURST	ASTM D-3786	800 PSI
	TRAPEZOID TEAR	ASTM D-4533	120 LBS
	UV RESISTANCE	ASTM D-4355	80 %
	APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
		ASTM D-4491	40 GAL/MIN/SQ FT
	PERMITTIVITY	ASTM D-4491	0.55 SEC -1

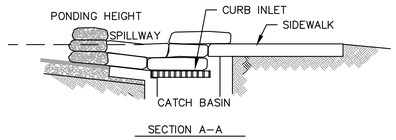
HIGH FLOW

(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

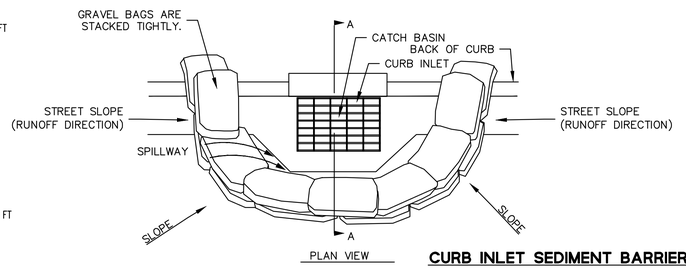
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC -1

NOTE:

1. STORM DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE.

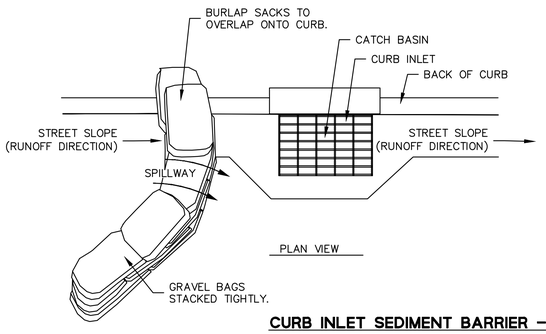


SECTION A-A



PLAN VIEW

CURB INLET SEDIMENT BARRIER - SUMP

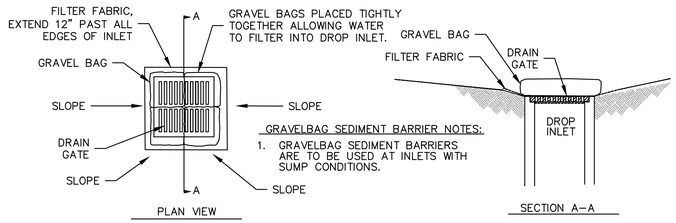


PLAN VIEW

CURB INLET SEDIMENT BARRIER - CONTINUOUS GRADE

CURB INLET SEDIMENT BARRIER NOTES:

1. PLACE CURB TYPE SEDIMENT BARRIERS ON GENTLY SLOPING STREETS, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BAGS OF EITHER BURLAP OR WOVEN GEOTEXTILE FABRIC ARE FILLED WITH GRAVEL, LAYERED AND PACKED TIGHTLY.
3. LEAVE ONE GRAVELBAG GAP IN THE TOP ROW TO PROVIDE A SPILLWAY OVERFLOW. TOP OF SPILLWAY SHALL BE LOWER THAN TOP OF CURB.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.



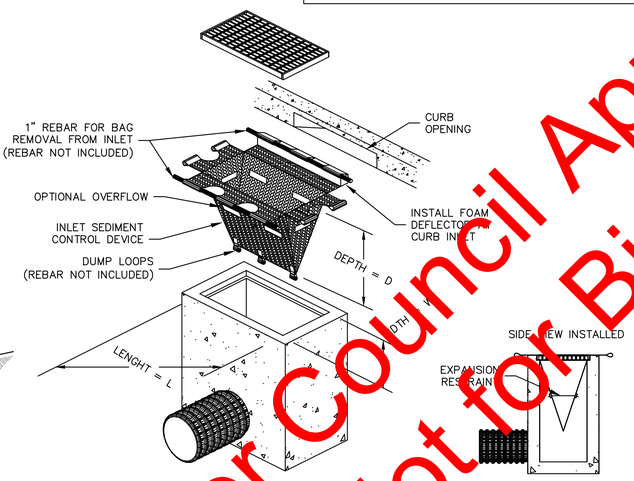
PLAN VIEW

GRAVELBAG SEDIMENT BARRIER NOTES:

1. GRAVELBAG SEDIMENT BARRIERS ARE TO BE USED AT INLETS WITH SUMP CONDITIONS.

SECTION A-A

DRAINAGE INLET GRAVELBAG SEDIMENT BARRIER



CURB INLET PROTECTION - CONTINUOUS GRADE OR SUMP

1 - STORM DRAIN INLET PROTECTION

NOT TO SCALE

For Council Approval
Not for Bidding

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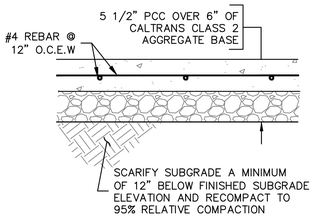
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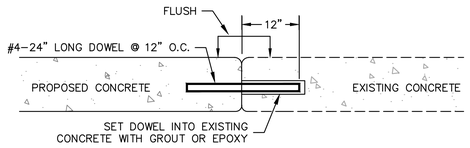
EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER:

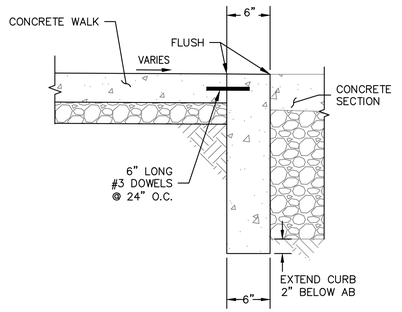
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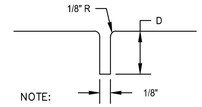
1 - CONCRETE WALK SECTION
NOT TO SCALE



2 - CONCRETE CONFORM
NOT TO SCALE

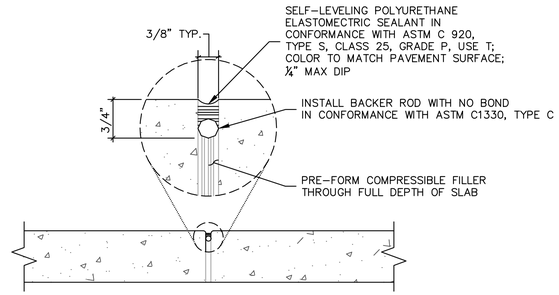


3 - FLUSH CURB
NOT TO SCALE

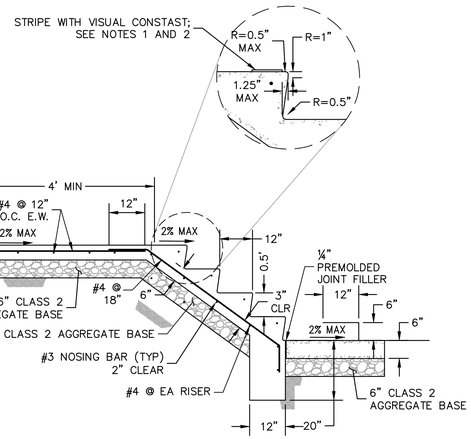


D=1/4" FOR SCORE JOINT

SCORE JOINTS
NOT TO SCALE



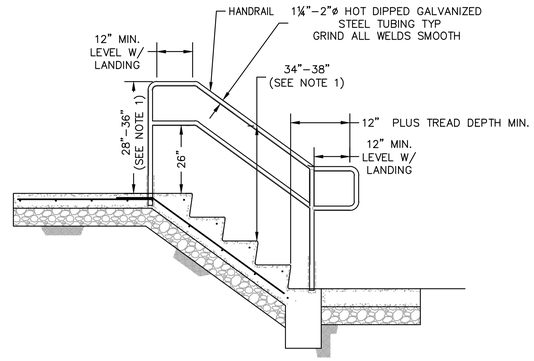
4 - SCORE JOINTS AND EXPANSION JOINT
NOT TO SCALE



NOTES:

1. ALL TREADS AND THE UPPER APPROACH OF THE STAIR SHALL BE MARKED WITH A STRIPE THAT PROVIDES CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES WIDE, A MAXIMUM OF 4 INCHES WIDE, AND PLACED PARALLEL TO AND NOT MORE THAN 1 INCH FROM THE NOSE OF THE STEP OR UPPER APPROACH.

2. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP AND SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP–RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES ARE NOT ACCEPTABLE.



NOTES:

1. TOP OF GRIPPING SURFACES ON HANDRAILS SHALL BE 28 INCHES MINIMUM TO 36 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES AND STAIR NOSINGS. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES AND STAIR NOSINGS.

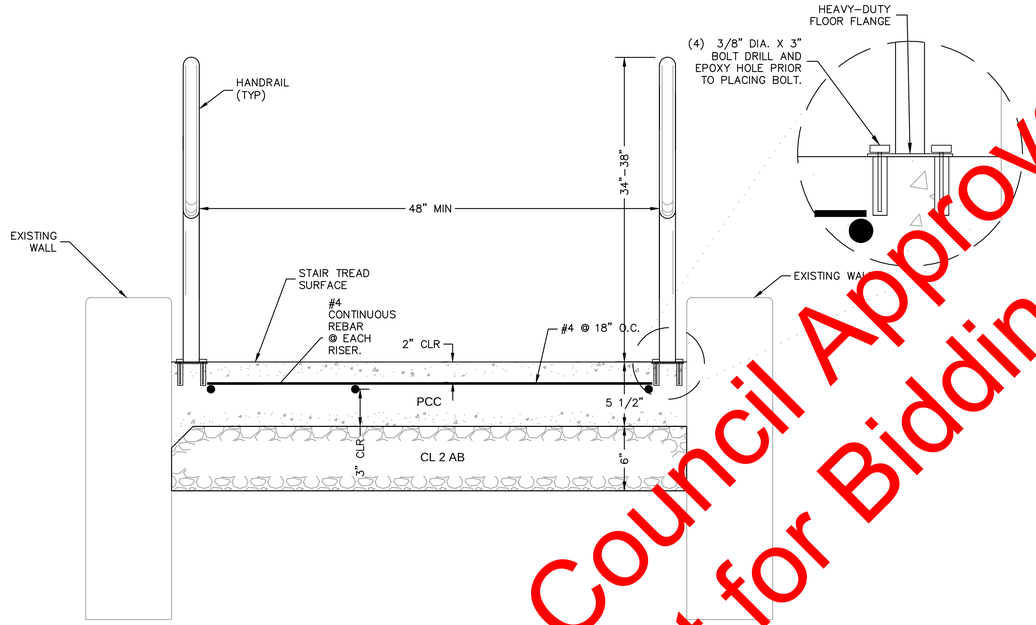
2. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH.

3. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ON THEIR TOPS OR SIDES. BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20% OF THEIR LENGTH.

4. HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS, AND HAVE ROUNDED EDGES.

5. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. THE STRIPE SHALL BE A MINIMUM OF 2 INCHES (51 MM) WIDE TO A MAXIMUM OF 4 INCHES (102 MM) WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH (25 MM) FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.

5 - STAIRS WITH HANDRAILS
NOT TO SCALE



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Not for Bidding

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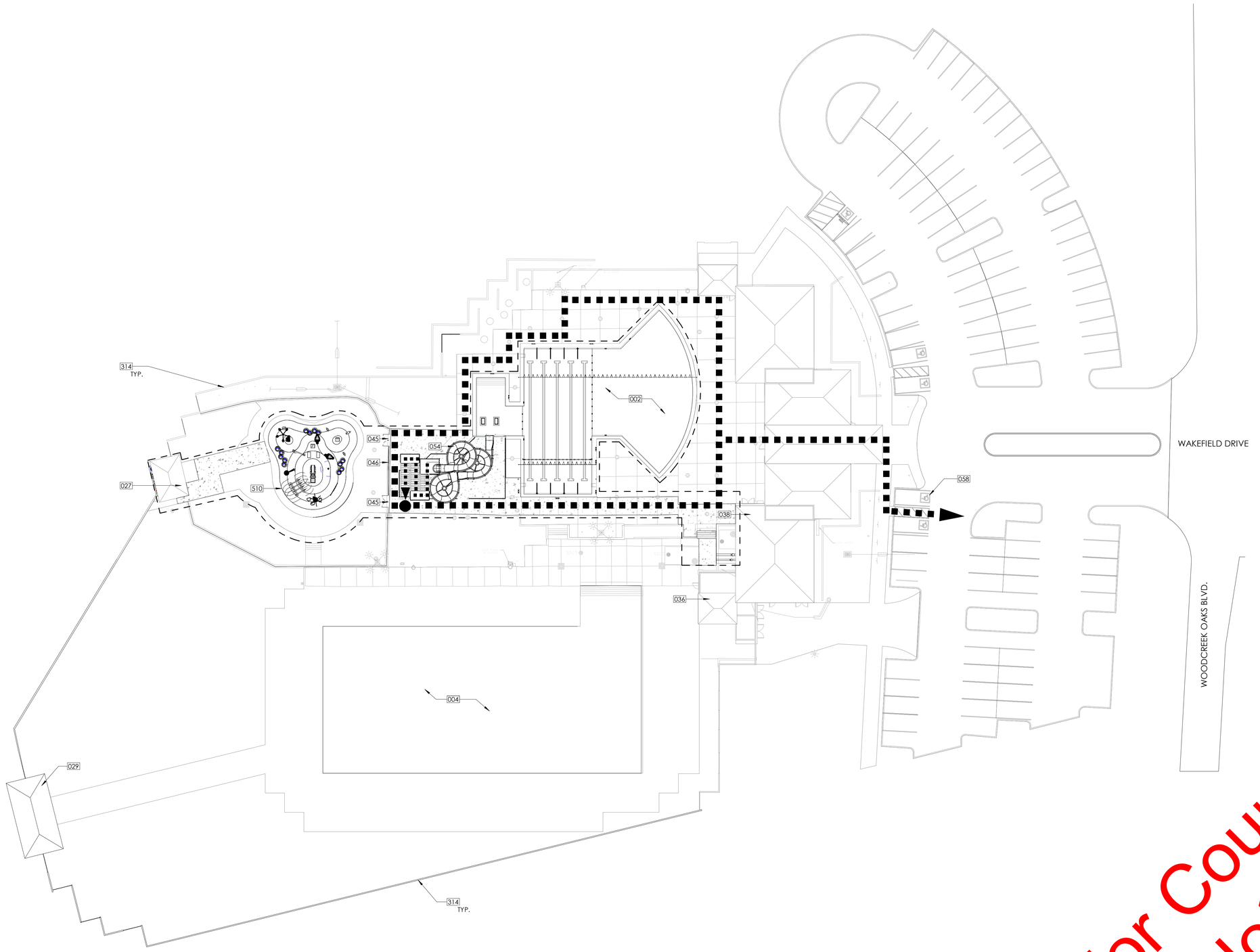
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Checked By:	CM
Drawn By:	MM

Sheet Title:

DETAILS

SHEET NUMBER:

C701



D1 SITE PLAN - OVERALL
A1.1 SCALE: 1 : 300

CONSTRUCTION NOTES

002	EXISTING RECREATION POOL
004	EXISTING COMPETITION POOL
027	EXISTING CHILDREN'S POOL MECHANICAL ROOM
029	EXISTING RESTROOM BUILDING
036	EXISTING GENERATOR ROOM
038	EXISTING MECHANICAL ROOM
045	NEW 4'-0" HIGH METAL PICKET SWING GATE TO MATCH EXISTING METAL PICKET FENCE. MATCH POST SPACING. SEE A1/A1.5 FOR DETAILS. REFER TO T-3 FOR ACCESSIBILITY DETAILS
046	NEW 4'-0" HIGH METAL PICKET FENCE TO MATCH EXISTING. VERIFY IN FIELD AND MATCH POST SPACING
054	NEW SLIDE AND STAIR COMPLEX TO BE PROVIDED UNDER SEPARATE CONTRACT. SHOWN FOR REFERENCE ONLY. SEE AQUATIC ENGINEER DRAWINGS
058	EXISTING ACCESSIBLE PARKING SPACE
314	EXISTING 6'-0" PERIMETER WALL AND FENCE
510	NEW SPRAY GROUND AND WATER PLAY EQUIPMENT, SEE AQUATIC DRAWINGS

LEGEND

ACCESSIBLE PATH OF TRAVEL

DENOTES AREA OF WORK

LICENSED ARCHITECT
JEFFREY A. KATZ
C-31188
REN. 09/10/19
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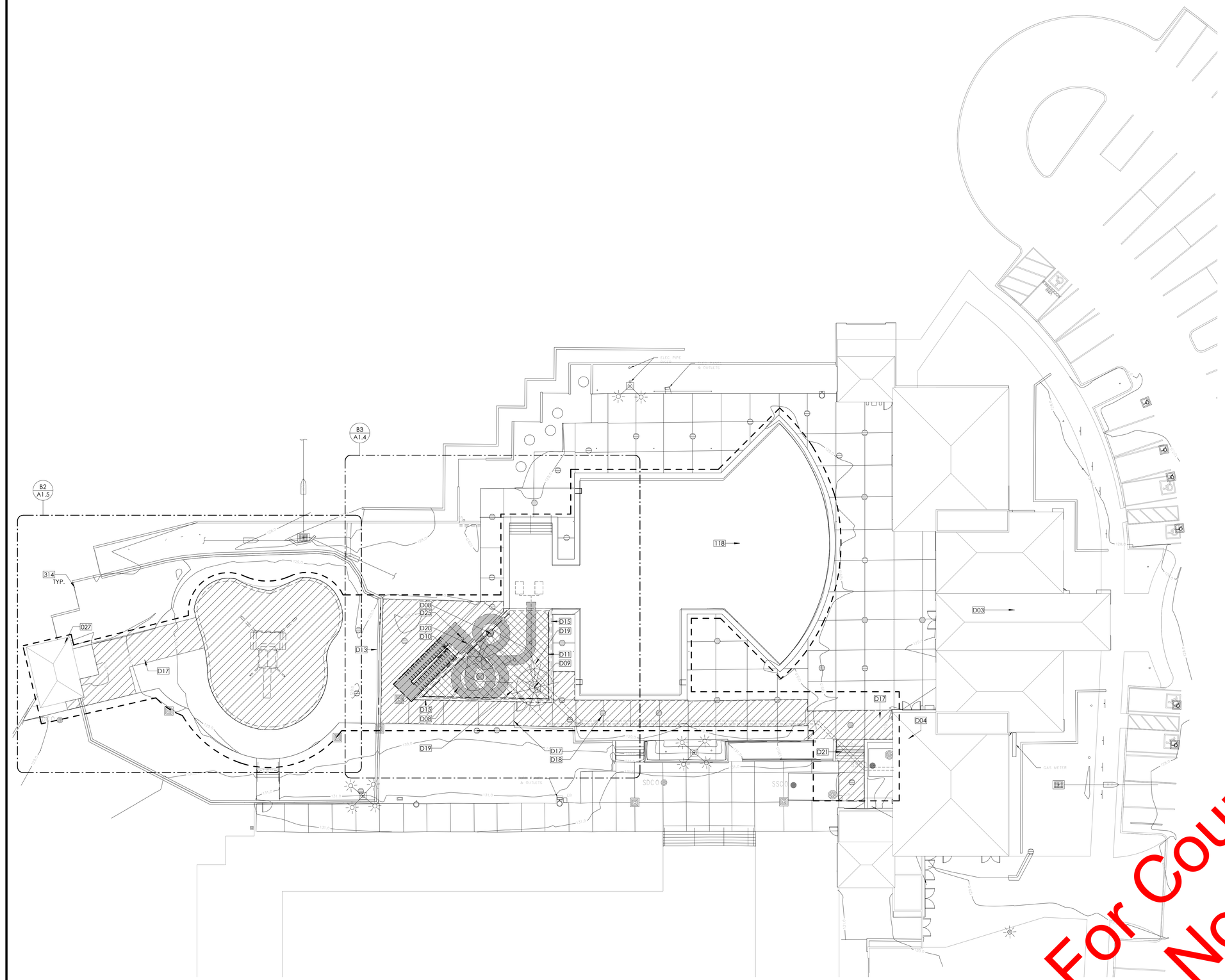
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Checked By:	MK
Drawn By:	ACJ

Sheet Title:

SITE PLAN - OVERALL

SHEET NUMBER:

A1.1



A1 SITE PLAN - DEMO
A1.2 SCALE: 1/16" = 1'-0"

CONSTRUCTION NOTES

027	EXISTING CHILDREN'S POOL MECHANICAL ROOM
118	REMOVE ALL EXISTING PLASTER SURFACING AND DRAINAGE GRATING. REPLASTER POOL. SEE AQUATIC ENGINEER DRAWINGS
314	EXISTING 6'-0" PERIMETER WALL AND FENCE
D03	EXISTING AQUATIC COMPLEX BUILDING
D04	EXISTING MECHANICAL ROOM
D08	EXISTING SLIDE TO BE DEMOLISHED; REMOVE METAL STAIRS, RAILING, SUPPORT STRUCTURE, CONCRETE FOUNDATIONS, PLUMBING, AND ELECTRICAL. TERMINATE UTILITIES 12" ABOVE GRADE. SEE RECORD DRAWINGS D1/A1.4 FOR STRUCTURAL CONCRETE QUANTITIES AND SIZING
D09	DEMO AND REMOVE EXISTING PALM TREE
D10	DEMO EXISTING 6'-0" CHAINLINK FENCE AND POSTS AROUND EXISTING SLIDE STAIR
D11	EXISTING CHAINLINK FENCE SURROUNDING LANDSCAPING TO BE REMOVED
D13	REMOVE PORTION OF EXISTING METAL PICKET FENCE AND DOUBLE GATE
D15	DEMO EXISTING CONCRETE CURB
D17	DEMO EXISTING CONCRETE DECK FOR ACCESS TO EXISTING SUPPLY AND RETURN PIPING. DEMO PORTION OF DECK TO ALIGN WITH EXISTING SLAB JOINTS AS INDICATED. VERIFY IN FILED FOR EXACT LOCATION OF CONCRETE DECK DEMO AREA WITH LOCATION OF EXISTING PIPING. EXISTING PIPING TO BE MODIFIED, SEE AQUATIC CONSULTANT
D18	REMOVE AND REPLACE DECK DRAINS AT DECK DEMO AREA, TYP.
D19	DEMO EXISTING LANDSCAPING FOR ACCESS TO EXISTING PIPING. VERIFY IN FIELD FOR EXACT LOCATION OF EXISTING SLIDE PIPING, SEE AQUATIC CONSULTANT.
D20	DEMO PORTION OF EXISTING CONCRETE FOR ACCESS TO EXISTING PIPING. VERIFY IN FIELD FOR EXACT LOCATION OF EXISTING SLIDE PIPING, SEE AQUATIC CONSULTANT.
D21	DEMO PORTION OF EXISTING CONCRETE STAIR FOR ACCESS TO EXISTING PIPING. VERIFY IN FIELD FOR EXACT LOCATION OF EXISTING SLIDE PIPING.
D25	DEMO AND CAP EXISTING WATER RISER FOR EXISTING SLIDE

DEMO LEGEND

- INDICATES EXISTING HARDSCAPE TO BE REMOVED/ DEMOLISHED/ ALTERED
- INDICATES EXISTING LANDSCAPE TO BE REMOVED & PREPPED FOR NEW HARDSCAPE
- INDICATES EXISTING SLIDE TO BE REMOVED & DEMOLISHED
- INDICATES EXISTING PIPING TO BE REMOVED/ DEMOLISHED/ ALTERED
- DENOTES AREA OF WORK
- xxx.x EXISTING GRADING CONTOUR

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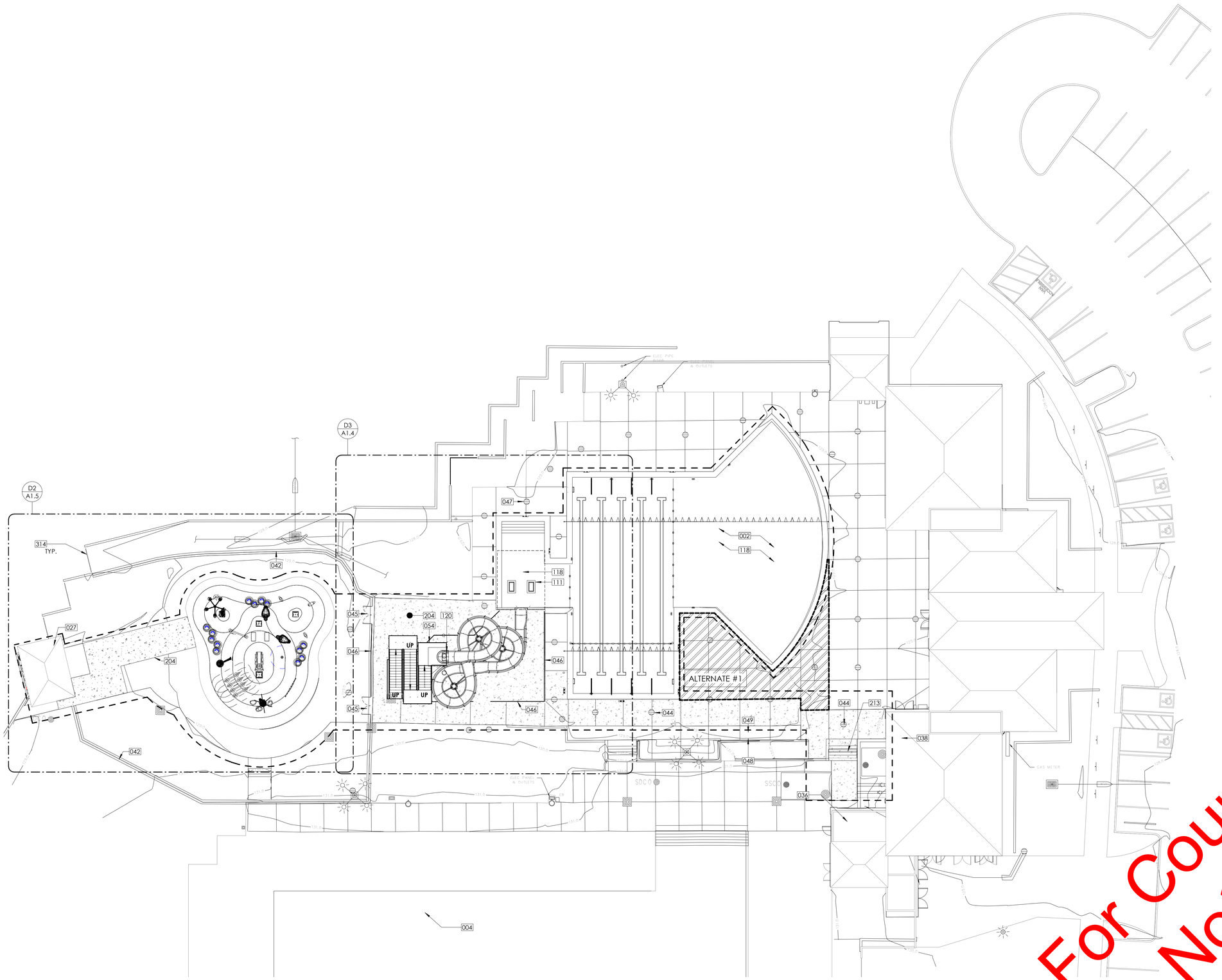
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Drawn By:	ACJ

Sheet Title:

SITE PLAN - DEMO

SHEET NUMBER:

A1.2



A1 SITE PLAN
A1.3 SCALE: 1/16" = 1'-0"

CONSTRUCTION NOTES

002 EXISTING RECREATION POOL
004 EXISTING COMPETITION POOL
027 EXISTING CHILDREN'S POOL MECHANICAL ROOM
036 EXISTING GENERATOR ROOM
038 EXISTING MECHANICAL ROOM
042 EXISTING 4'-0" HIGH METAL PICKET FENCE
044 RELOCATE DECK DRAINS AT EXISTING LOCATIONS. REPLACE ANY DECK DRAINS NOT ABLE TO BE SALVAGED OR IN NEED OF REPLACEMENT, TYP.
045 NEW 4'-0" HIGH METAL PICKET SWING GATE TO MATCH EXISTING METAL PICKET FENCE. MATCH POST SPACING. SEE A1/A1.5 FOR DETAILS. REFER TO T-3 FOR ACCESSIBILITY DETAILS
046 NEW 4'-0" HIGH METAL PICKET FENCE TO MATCH EXISTING. VERIFY IN FIELD AND MATCH POST SPACING
047 EXISTING DECK DRAINS, TYP.
048 NEW SUPPLY PIPING FOR NEW SLIDE COMPLEX. SEE AQUATIC ENGINEER DRAWINGS
049 NEW RETURN PIPING FOR NEW SLIDE COMPLEX. SEE AQUATIC ENGINEER DRAWINGS
054 NEW SLIDE AND STAIR COMPLEX TO BE PROVIDED UNDER SEPARATE CONTRACT. SHOWN FOR REFERENCE ONLY. SEE AQUATIC ENGINEER DRAWINGS
111 NEW RETURN PIPING AND DRAIN FOR NEW SLIDE COMPLEX. SEE AQUATIC ENGINEER DRAWINGS
118 REMOVE ALL EXISTING PLASTER SURFACING AND DRAINAGE GRATING. REPLASTER POOL. SEE AQUATIC ENGINEER DRAWINGS
120 NEW WATER RISER FOR SLIDE COMPLEX. VERIFY IN FIELD FOR FINAL LOCATION. SEE AQUATIC ENGINEER DRAWINGS
204 NEW CONCRETE DECK TO MATCH EXISTING. ALIGN JOINTS WITH EXISTING. PROVIDE SLOPE TO DRAIN AS REQUIRED. SEE CIVIL FOR FULL SCOPE OF NEW CONCRETE AREAS
213 REPLACE CONCRETE STAIR TO MATCH EXISTING
314 EXISTING 6'-0" PERIMETER WALL AND FENCE

LEGEND

INDICATES AREA OF NEW CONCRETE DECK

INDICATES AREA OF ALTERNATE #1 - REMOVE AND REPLACE ADDITIONAL POOL DECK AREA

DENOTES AREA OF WORK

EXISTING GRADING CONTOUR

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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99% CD	07/13/21
100% CD/BID SET	08/20/21

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Sheet Title:
SITE PLAN

SHEET NUMBER:
A1.3

COLUMN TABLE

COL. NO	X COORD (feet)	Y COORD (feet)	COLUMN SIZE/TYPE DIA (in)	WALL (in)	TOP PEDESTAL (feet)	TOP COLUMN (feet)	SUPPORTED SECTION	YOKE GRADE (DEG)	YOKE TYPE
P 1	107.50	88.26	12.00	CONC		0.58	A(3)/A(4)	7.97	PS-1
P 2	101.70	82.25	12.00	CONC		1.85	A(4)/A(5)	7.97	PS-1
P 3	91.96	82.25	18.00	CONC		3.22	A(6)/A(7)	7.97	PS-1
P 4	99.79	76.34	12.75	0.38	1.00	19.64	SEE ARM TABLE		
P 5	93.31	91.59	12.75	0.38	1.00	13.91	SEE ARM TABLE		
P 6	64.70	73.19	10.75	0.37	1.00	9.80	TOWER COLUMN		
P 7	82.06	90.07	12.75	0.38	1.00	21.47	TOWER COLUMN		

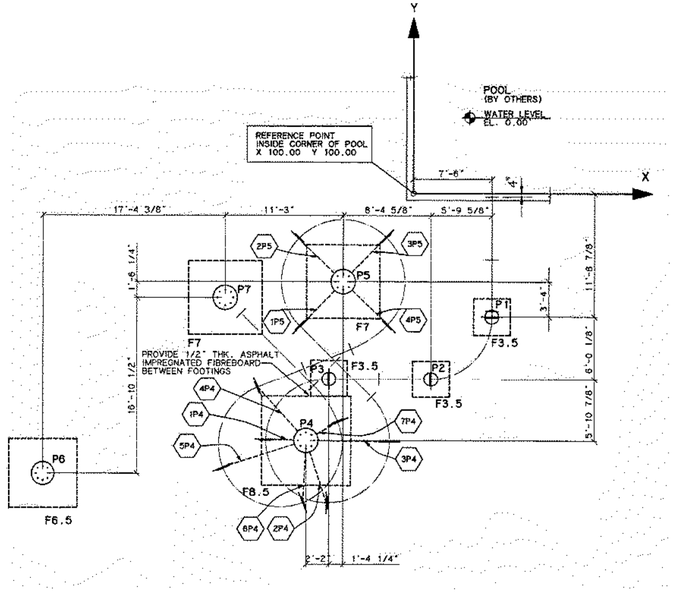
FOUNDATION TABLE

COL NO	MARK	FOOTING SIZE	FOOTING REINFORCEMENT	DOWELS ON FOOTING	EMBEDMENTS TO TOP OF COLUMN OR PEDESTAL	COLUMN OR PEDESTAL REINFORCEMENTS	COLUMN
P1,P2 P3	F3.5	3'-6" X 3'-6" X 12" DP.	4-#5 EA. WAY BOT.	TO MATCH COLUMN REINFORCEMENT	11" DIA x 3/8" PL C/W 4 - 3/4" DIA ANCHORS (SEE DETAIL)	6 - #5 VERT. # 3 @ 8" TIES	12" DIA. CONC COLUMN
P6	F6.5	6'-6" X 6'-6" X 14" DP.	4-#5 EA. WAY TOP 7-#6 EA. WAY BOT.	TO MATCH PEDESTAL REINFORCEMENT	20" DIA X 1" THICK B. PLATE 8 - 1" DIA A. BOLTS BOLT CIRCLE = 16 C/C	26" DIA. CONC. PED. 12 - #7 VERT. # 3 @ 8" TIES	10.75" DIA. X .365 STD PIPE
P5,P7	F7	7'-0" X 7'-0" X 14" DP.	4-#5 EA. WAY TOP 7-#6 EA. WAY BOT.	TO MATCH PEDESTAL REINFORCEMENT	22" DIA X 1" THICK B. PLATE 8 - 1" DIA A. BOLTS BOLT CIRCLE = 18" C/C	28" DIA. CONC. PED. 12 - #7 VERT. # 3 @ 8" TIES	12.75" DIA. X .375 STD PIPE
P4	F8.5	8'-6" X 8'-6" X 14" DP.	4-#5 EA. WAY TOP 9-#6 EA. WAY BOT.	TO MATCH PEDESTAL REINFORCEMENT	22" DIA X 1" THICK B. PLATE 8 - 1" DIA A. BOLTS BOLT CIRCLE = 18"C/C	28" DIA. CONC. PED. 12 - #7 VERT. # 3 @ 8" TIES	12.75" DIA. X .375 STD PIPE

ARM TABLE

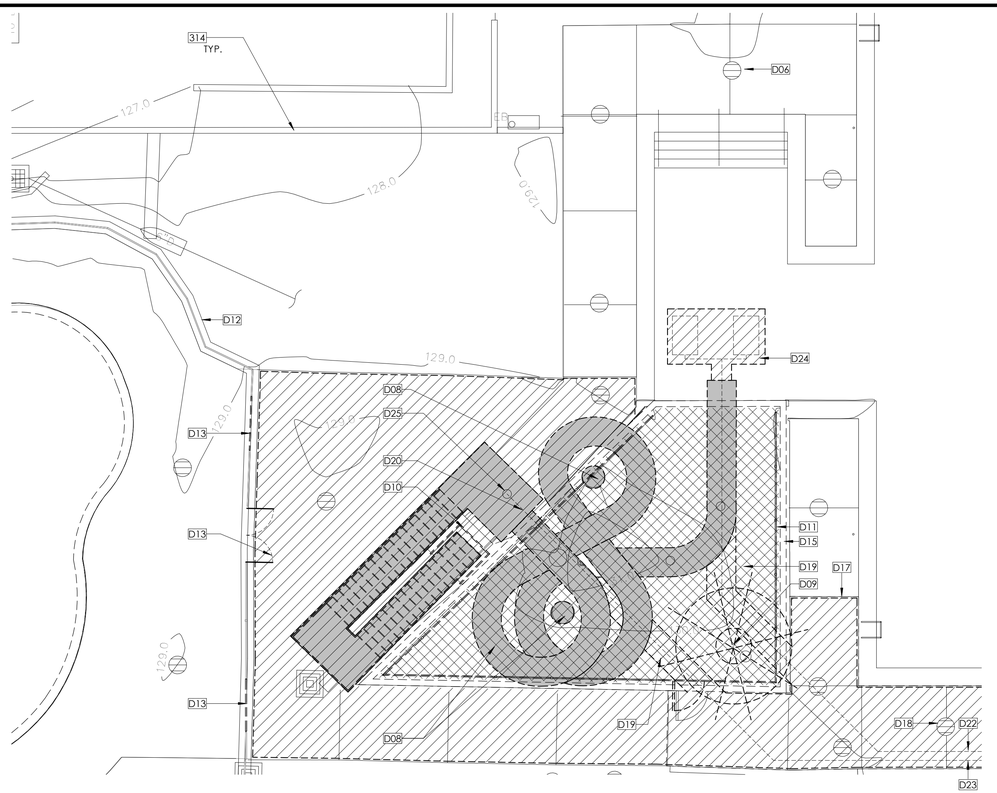
COL NO	ARM NO	ARM BEAR (DEG)	ARM ELEV	DIMENSIONS (in feet) A	B	C	D	SUPPORTED SECTION	YOKE GRADE (DEG)	YOKE TYPE	BR
P4	1P4	178.32	4.64	4.00	3.32	2.00	1.40	A(7)/A(8)	7.97	PS-1	DN
P4	2P4	268.27	5.94	6.50	5.68	3.37	2.36	A(8)/A(9)	7.97	PS-1	DN
P4	3P4	358.25	7.24	8.25	7.43	5.43	3.80	A(9)/A(10)	7.97	PS-1	DN
P4	4P4	132.12	15.08	7.00	6.35	4.35	3.05	A(18)/A(19)	7.97	PS-1	DN
P4	5P4	197.76	16.38	8.50	7.82	5.43	3.80	A(19)/A(20)	7.97	PS-1	DN
P4	6P4	267.98	17.68	6.00	5.36	3.37	2.36	A(20)/A(21)	7.97	PS-1	DN
P4	7P4	30.22	18.98	3.75	2.98	2.00	1.40	A(21)/A(22)	7.97	PS-1	DN
P5	1P5	226.00	9.25	6.00	5.38	3.37	2.36	A(12)/A(13)	7.97	PS-1	DN
P5	2P5	136.10	10.55	6.00	5.38	3.37	2.36	A(13)/A(14)	7.97	PS-1	DN
P5	3P5	46.07	11.85	6.00	5.37	3.37	2.36	A(14)/A(15)	7.97	PS-1	DN
P5	4P5	316.01	13.15	6.00	5.37	3.37	2.36	A(15)/A(16)	7.97	PS-1	DN

RECORD DRAWING
REFERENCE ONLY
VERIFY IN FIELD

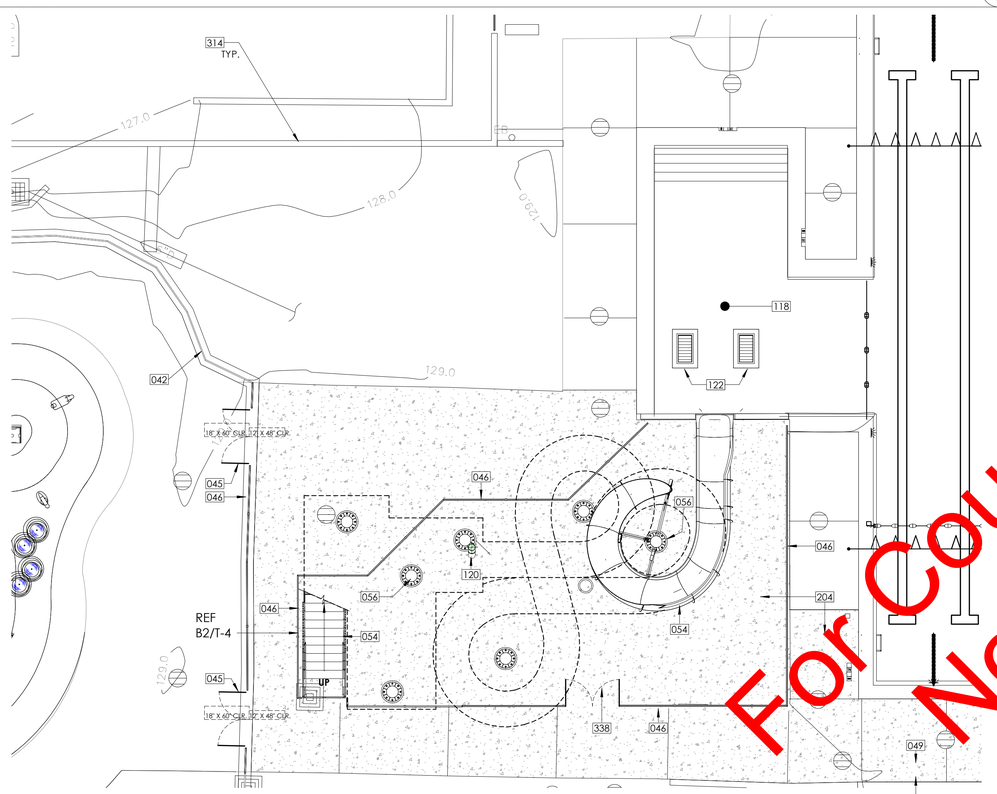


RECORD DRAWING
REFERENCE ONLY
VERIFY IN FIELD

D1 EXISTING SLIDE STRUCTURAL TABLES
A1.4 SCALE: 12" = 1'-0"



B3 POOL C - EXISTING LEISURE POOL ENLARGED DEMO PLAN
A1.4 SCALE: 1/8" = 1'-0"



D3 POOL C - EXISTING LEISURE POOL ENLARGED PLAN
A1.4 SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

042 EXISTING 4'-0" HIGH METAL PICKET FENCE
045 NEW 4'-0" HIGH METAL PICKET SWING GATE TO MATCH EXISTING METAL PICKET FENCE, MATCH POST SPACING. SEE A1/A1.5 FOR DETAILS. REFER TO T-3 FOR ACCESSIBILITY DETAILS
046 NEW 4'-0" HIGH METAL PICKET FENCE TO MATCH EXISTING. VERIFY IN FIELD AND MATCH POST SPACING
048 NEW SUPPLY PIPING FOR NEW SLIDE COMPLEX. SEE AQUATIC ENGINEER DRAWINGS
049 NEW RETURN PIPING FOR NEW SLIDE COMPLEX. SEE AQUATIC ENGINEER DRAWINGS
054 NEW SLIDE AND STAIR COMPLEX TO BE PROVIDED UNDER SEPARATE CONTRACT, SHOWN FOR REFERENCE ONLY, SEE AQUATIC ENGINEER DRAWINGS
056 SUPPORT STRUCTURE FOR NEW SLIDE AND STAIR COMPLEX, SHOWN FOR REFERENCE ONLY, SEE AQUATIC ENGINEER DRAWINGS
118 REMOVE ALL EXISTING PLASTER SURFACING AND DRAINAGE GRATING, REPLASTER POOL. SEE AQUATIC ENGINEER DRAWINGS
120 NEW WATER RISER FOR SLIDE COMPLEX. VERIFY IN FIELD FOR FINAL LOCATION, SEE AQUATIC ENGINEER DRAWINGS
122 NEW POOL DRAINS, SEE AQUATIC ENGINEER DRAWINGS
204 NEW CONCRETE DECK TO MATCH EXISTING, ALIGN JOINTS WITH EXISTING, PROVIDE SLOPE TO DRAIN AS REQUIRED. SEE CIVIL FOR FULL SCOPE OF NEW CONCRETE AREAS
314 EXISTING 6'-0" PERIMETER WALL AND FENCE
338 NEW 3'-0" WIDE DOUBLE METAL PICKET SWING GATE TO MATCH NEW FENCE, MATCH POST SPACING
D06 EXISTING DECK DRAINS TO REMAIN, TYP.
D08 EXISTING SLIDE TO BE DEMOLISHED; REMOVE METAL STAIRS, RAILING, SUPPORT STRUCTURE, CONCRETE FOUNDATIONS, PLUMBING, AND ELECTRICAL. TERMINATE UTILITIES 12" ABOVE GRADE. SEE RECORD DRAWINGS D1/A1.4 FOR STRUCTURAL CONCRETE QUANTITIES AND SIZING
D09 DEMO AND REMOVE EXISTING PALM TREE
D10 DEMO EXISTING 6'-0" CHAINLINK FENCE AND POSTS AROUND EXISTING SLIDE STAIR
D11 EXISTING CHAINLINK FENCE SURROUNDING LANDSCAPING TO BE REMOVED
D12 PORTION OF EXISTING METAL FENCE TO REMAIN
D13 REMOVE PORTION OF EXISTING METAL PICKET FENCE AND DOUBLE GATE
D15 DEMO EXISTING CONCRETE CURB
D17 DEMO EXISTING CONCRETE DECK FOR ACCESS TO EXISTING SUPPLY AND RETURN PIPING. DEMO PORTION OF DECK TO ALIGN WITH EXISTING SLAB JOINTS AS INDICATED. VERIFY IN FILED FOR EXACT LOCATION OF CONCRETE DECK DEMO AREA WITH LOCATION OF EXISTING PIPING. EXISTING PIPING TO BE MODIFIED, SEE AQUATIC CONSULTANT
D18 REMOVE AND REPLACE DECK DRAINS AT DECK DEMO AREA, TYP.
D19 DEMO EXISTING LANDSCAPING FOR ACCESS TO EXISTING PIPING. VERIFY IN FIELD FOR EXACT LOCATION OF EXISTING SLIDE PIPING, SEE AQUATIC CONSULTANT.
D20 DEMO PORTION OF EXISTING CONCRETE FOR ACCESS TO EXISTING PIPING. VERIFY IN FIELD FOR EXACT LOCATION OF EXISTING SLIDE PIPING, SEE AQUATIC CONSULTANT.
D22 DEMO AND REMOVE EXISTING 6" SUPPLY PIPE FOR SLIDE. REPLACE WITH NEW INCREASED SIZE PIPE. SEE AQUATIC ENGINEER DRAWINGS.
D23 DEMO AND REMOVE EXISTING 6" RETURN PIPE FOR SLIDE. REPLACE WITH NEW INCREASED SIZE PIPE. SEE AQUATIC ENGINEER DRAWINGS.
D24 DEMO PORTION OF POOL SHELL FOR ACCESS TO RETURN PIPING. DEMO AND REMOVE EXISTING 6" RETURN PIPE FOR SLIDE. REPLACE WITH NEW INCREASED SIZE PIPE AND DRAIN. VERIFY IN FIELD FOR EXACT LOCATION OF PIPING. SEE AQUATIC ENGINEER DRAWINGS.
D25 DEMO AND CAP EXISTING WATER RISER FOR EXISTING SLIDE

DEMO LEGEND

- INDICATES EXISTING HARDSCAPE TO BE REMOVED/ DEMOLISHED/ ALTERED
- INDICATES EXISTING LANDSCAPE TO BE REMOVED & PREPARED FOR NEW HARDSCAPE
- INDICATES EXISTING SLIDE TO BE REMOVED/ DEMOLISHED
- INDICATES EXISTING PIPING TO BE REMOVED/ DEMOLISHED/ ALTERED
- DENOTES AREA OF WORK
- XXXX EXISTING GRADING CONTOUR

HARDSCAPE LEGEND

- INDICATES AREA OF NEW CONCRETE HARDSCAPE/DECK/SIDEWALK

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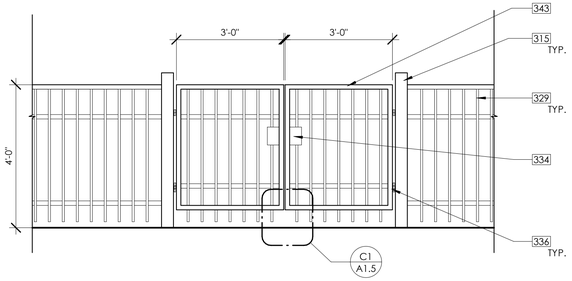
Sheet Title:

POOL C - EXISTING LEISURE POOL - ENLARGED PLANS

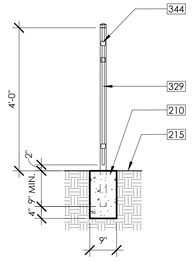
SHEET NUMBER:

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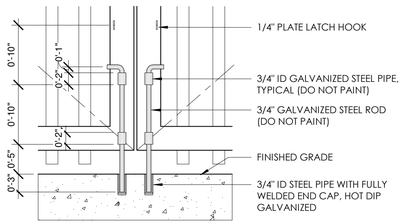
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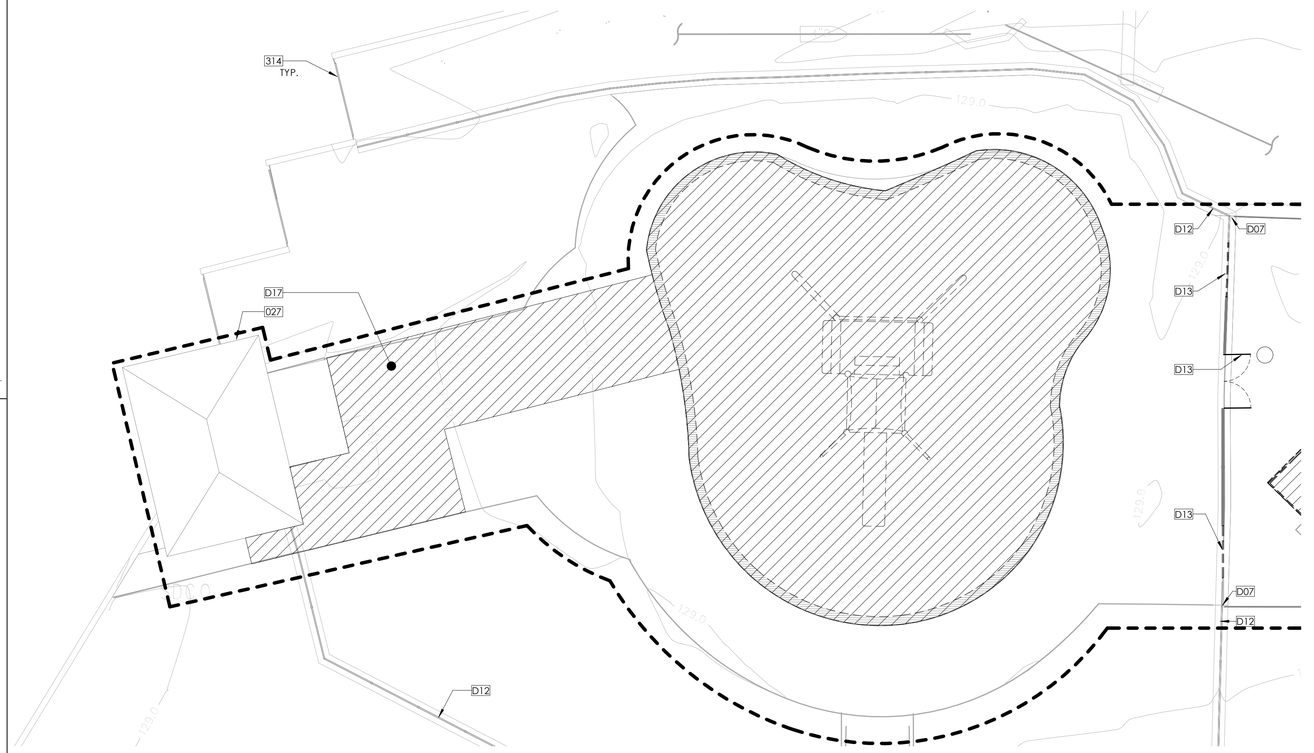
A1 FENCE & GATE DETAIL
A1.5 SCALE: 1/2" = 1'-0"



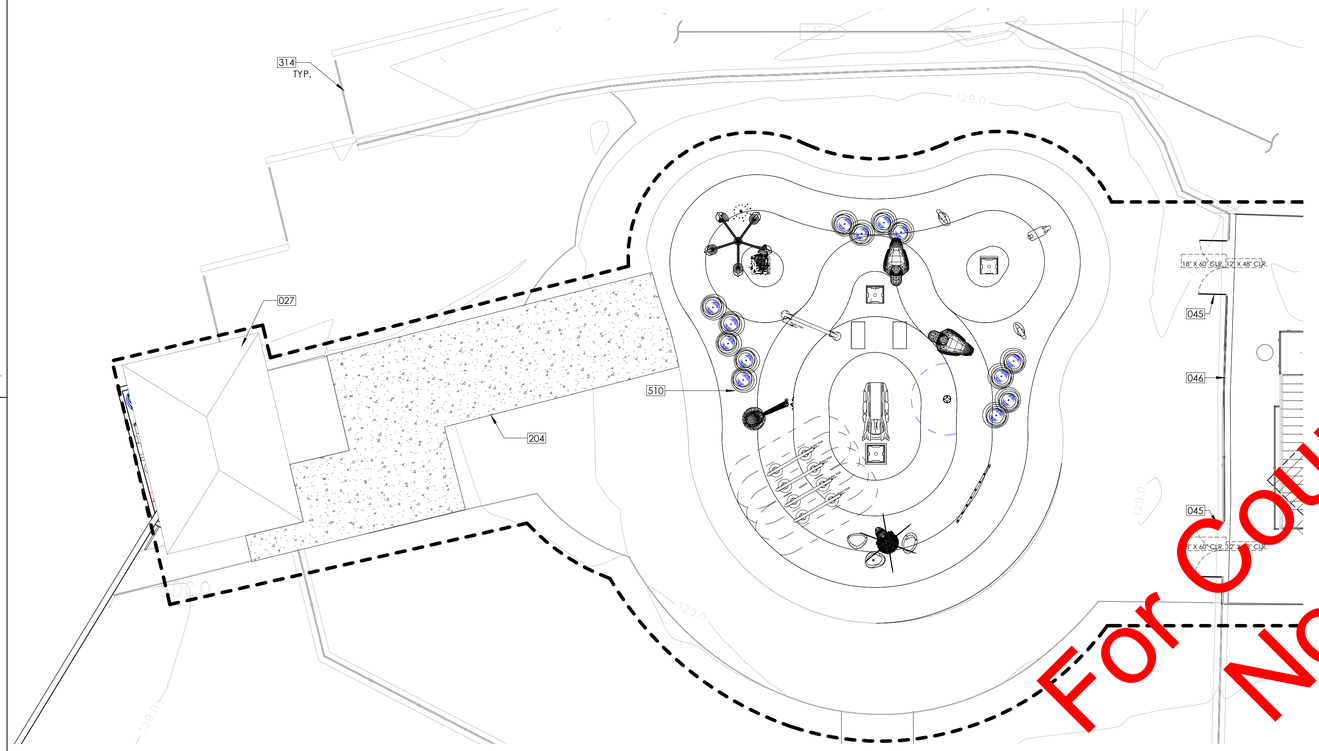
B1 FENCE SECTION DETAIL
A1.5 SCALE: 1/2" = 1'-0"



C1 CANE BOLT DETAIL
A1.5 SCALE: 1" = 1'-0"



B2 POOL D - SPRAY PAD ENLARGED DEMO PLAN
A1.5 SCALE: 1/8" = 1'-0"



D2 POOL D - SPRAY PAD ENLARGED PLAN
A1.5 SCALE: 1/8" = 1'-0"

CONSTRUCTION NOTES

027 EXISTING CHILDREN'S POOL MECHANICAL ROOM
045 NEW 4'-0" HIGH METAL PICKET SWING GATE TO MATCH EXISTING METAL PICKET FENCE. MATCH POST SPACING. SEE A1/A1.5 FOR DETAILS. REFER TO T-3 FOR ACCESSIBILITY DETAILS
046 NEW 4'-0" HIGH METAL PICKET FENCE TO MATCH EXISTING. VERIFY IN FIELD AND MATCH POST SPACING
204 NEW CONCRETE DECK TO MATCH EXISTING. ALIGN JOINTS WITH EXISTING. PROVIDE SLOPE TO DRAIN AS REQUIRED. SEE CIVIL FOR FULL SCOPE OF NEW CONCRETE AREAS
210 CONCRETE FOOTING
215 FINISH GRADE
314 EXISTING 6'-0" PERIMETER WALL AND FENCE
315 3" SQUARE TUBE STEEL POST IN CONCRETE FOOTING
329 0.75" SQUARE 18 GA PICKET
334 PREP FOR LOCK HARDWARE
336 HEAVY DUTY SPRING HINGES WELDED TO FRAME
343 1 1/2" SQ. STEEL TUBE TOP AND BOTTOM
344 1 1/2" SQUARE 14 GA RAIL
510 NEW SPRAY GROUND AND WATER PLAY EQUIPMENT, SEE AQUATIC DRAWINGS
D07 EXISTING END POST TO REMAIN DURING FENCE DEMO WORK
D12 PORTION OF EXISTING METAL FENCE TO REMAIN
D13 REMOVE PORTION OF EXISTING METAL PICKET FENCE AND DOUBLE GATE
D17 DEMO EXISTING CONCRETE DECK FOR ACCESS TO EXISTING SUPPLY AND RETURN PIPING. DEMO PORTION OF DECK TO ALIGN WITH EXISTING SLAB JOINTS AS INDICATED. VERIFY IN FILED FOR EXACT LOCATION OF CONCRETE DECK DEMO AREA WITH LOCATION OF EXISTING PIPING. EXISTING PIPING TO BE MODIFIED, SEE AQUATIC CONSULTANT

DEMO LEGEND

INDICATES EXISTING HARDSCAPE TO BE REMOVED/ DEMOLISHED/ ALTERED
INDICATES EXISTING LANDSCAPE TO BE REMOVED & PREPARED FOR NEW HARDSCAPE
INDICATES EXISTING SLAB TO BE REMOVED/ DEMOLISHED
INDICATES EXISTING PIPING TO BE REMOVED/ DEMOLISHED/ ALTERED
DENOTES AREA OF WORK
xxx.x EXISTING GRADING CONTOUR

HARDSCAPE LEGEND

INDICATES AREA OF NEW CONCRETE HARDSCAPE/DECK/SIDEWALK

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POOL D - SPRAY PAD ENLARGED PLANS

SHEET NUMBER:

A1.5

LIGHTING LEGEND

(COORDINATE THE EXACT MOUNTING AND LOCATION OF ALL LIGHTING, SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN. SEE ARCH PLANS FOR EXACT GRID, FLUSH AND SURFACE MOUNTING LOCATIONS.)

LIGHTING FIXTURES. SEE FIXTURE SCHEDULE FOR MODEL/PART NUMBERS AND ADDITIONAL DETAILS.

EMERGENCY LIGHTING FIXTURES. SEE FIXTURE SCHEDULE FOR MODEL/PART NUMBERS AND ADDITIONAL DETAILS.

LUMINAIRE(S) POLE MOUNTED WITH ARM. TYPE AS NOTED.

LUMINAIRE(S) POLE MOUNTED ON TOP. TYPE AS NOTED.

SUBSCRIPT ADJACENT TO LIGHTING FIXTURE INDICATES:

1,2,3 etc. = BRANCH CIRCUIT NUMBERS
a,b,c etc. = SWITCH-LEG REFERENCE
NL = NIGHT/SECURITY LIGHTING FIXTURE

EMERGENCY UNIT BATTERY FIXTURE.

LIGHTED EXIT SIGN. TOP MOUNTED ON CEILING OR STEM MOUNTED. SHADED SIDE INDICATES FACE. PROVIDE ARROWS WHERE SHOWN TO INDICATE DIRECTION OF TRAVEL.

DOUBLE SIDED EXIT SIGN. PROVIDE ARROWS WHERE SHOWN TO INDICATE DIRECTION OF TRAVEL.

TOGGLE SWITCH. SEE BELOW FOR NOTATION.
2 = DOUBLE POLE
3 = THREE WAY
4 = FOUR WAY
D = DIMMER
K = KEY SWITCH
OS = OCCUPANCY SENSOR
a,b,c = INDICATES MULTIPLE SWITCHES IN GANGED BOX WITH COMMON COVERPLATE.

LV — LOW VOLTAGE OVERRIDE SWITCH

M — OCCUPANCY SENSOR - CEILING MOUNTED.

PC — PHOTOCELL - CEILING OR ROOF MOUNTED.

DS — DAYLIGHT SENSOR - CEILING MOUNTED.

SITE SYMBOLS LEGEND

OHP — NEW OVERHEAD ELECTRICAL LINE.

UP — NEW UNDERGROUND ELECTRICAL LINE AS INDICATED. "UP" INDICATES UNDERGROUND PRIMARY.

X — OHE — X — EXISTING OVERHEAD ELECTRICAL LINE TO BE DEMOLISHED.

X — UP — X — EXISTING UNDERGROUND ELECTRICAL LINE TO BE DEMOLISHED, AS INDICATED. "UP" INDICATES UNDERGROUND PRIMARY.

OHE — EXISTING OVERHEAD ELECTRICAL LINE TO REMAIN.

UP — EXISTING UNDERGROUND ELECTRICAL LINE TO REMAIN AS INDICATED. "UP" INDICATES UNDERGROUND PRIMARY.

TYPICAL DESIGNATIONS TO BE USED IN CONJUNCTION WITH CONDUIT SYMBOLS
- UP = UNDERGROUND PRIMARY
- US = UNDERGROUND SECONDARY
- UC = UNDERGROUND COMMUNICATIONS
- USL = UNDERGROUND STREET LIGHTING

NEW HANDHOLE

NEW MANHOLE

EXISTING MANHOLE

EXISTING MANHOLE

POWER LEGEND

DUPLEX RECEPTACLE, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER.

QUAD RECEPTACLE, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER.

DUPLEX RECEPTACLE WITH GFCI, NON-LOCKING TYPE, GROUNDING, 120V - 20A. MOUNTED AT +18 AFF UNO. SHADED REPRESENTS ABOVE COUNTER.

SPECIAL RECEPTACLE MOUNTED AT +18" AFF UNO.
SPECIAL RECEPTACLE CEILING MOUNTED.
TYPE DESIGNATIONS:
NONE = L5-30R
A = L6-30R
B = L6-20R
C = L21-20R
D = L15-30R

CEILING MOUNTED DUPLEX OR QUAD RECEPTACLE, NON-LOCKING TYPE, GROUNDING.

POWER FLOOR BOX.

CONTROLLED RECEPTACLE NON-LOCKING TYPE 120V-20A. TO BE LOCATED WITHIN 6' OF AN UNCONTROLLED RECEPTACLE. CONNECT SWITCH LEG BETWEEN RELAY POWER PACK AND OCCUPANCY CONTROLS FOR AUTOMATIC SHUT OFF. CONTROLLED RECEPTACLES SHALL HAVE PERMANENT MARKING TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES. (CEC TITLE 24 SECTION 130.5(D)). PROVIDE FACEPLATE PER NEC 406.3(E).

M P M P — WALL OR FLOOR POWER CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER.

J — JUNCTION BOX

J — WALL MOUNTED JUNCTION BOX

T — TRANSFORMER

SWITCHBOARD OR MCC

PANEL BOARD (SURFACE)

PANEL BOARD (FLUSH)

LOW VOLTAGE PANEL

LCP — LIGHTING CONTROL PANEL

TELEPHONE BACKBOARD. 3/4" PLYWOOD, LENGTH AND WIDTH AS NOTED.

COMMUNICATION LEGEND

COMBINATION VOICE/DATA OUTLET MOUNTED AT 18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING.

WALL MOUNTED VOICE OUTLET AT +18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING.

WALL MOUNTED DATA OUTLET AT +18" UNO. PROVIDE 3/4" C.O. TERMINATE IN ACCESSIBLE CEILING WITH INSULATED BUSHING.

CEILING MOUNTED DATA OR VOICE/DATA OUTLET.

FLOOR DATA OR VOICE/DATA OUTLET. VERIFY EXACT LOCATION WITH ARCHITEC.

M M — WALL OR FLOOR VOICE/DATA CONNECTION TO MODULAR FURNITURE. VERIFY EXACT LOCATION WITH FURNITURE SUPPLIER.

S — SPEAKER - CEILING MOUNTED

12" WIDE MONO-TRAY, 4" DEEP (NOMINAL), 6" RUNG SPACING. TYPICAL UNO

12" WIDE CABLE TRAY, 4" DEEP (NOMINAL) TYPICAL UNO

COORDINATE THE EXACT MOUNTING OF ALL CABLE TRAY SUPPORTS AND ALL CONDUITS WITH OTHER TRADES PRIOR TO ROUGH-IN.

ELECTRICAL ABBREVIATIONS

A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
AIC	AMPS INTERRUPTING CURRENT
ALT.	ALTERNATE
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFL	COMPACT FLUORESCENT LAMP
CKT	CIRCUIT
C.O.	CONDUIT ONLY
CONC.	CONCRETE
CX	CONNECT TO EXISTING CIRCUIT
CU	COPPER
dBA	DECIBELS
DIST.	DISTRIBUTION
DWG.	DRAWING
EM	EMERGENCY SERVICE
ETC	ET CETERA
EG	EQUIPMENT GROUND
EPO	EMERGENCY POWER OFF BUTTON
EWC	ELECTRIC WATER COOLER
EXIST. (E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
GD	GARBAGE DISPOSAL
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HORIZ.	HORIZONTALLY MOUNTED
HP	HORSEPOWER
KCMIL	THOUSAND CUBIC MILLIMITERS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
JB	JUNCTION BOX
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTER
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MIC	MICROWAVE
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MTG. HT.	MOUNTING HEIGHT
NIC	NOT IN CONTRACT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
P	POLE
PB	PULL BOX
PH	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
SEC	SECURITY
SHT	SHEET
S.N.	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SWGR	SWITCHGEAR
TC	TERMINAL CABINET
TEL	TELEPHONE
T.I.	TENANT IMPROVEMENT
T.R.	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
U.C.	UNDER COUNTER
UL	UNDERWRITERS LABORATORY
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLTS
WH	WATER HEATER
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER
X	EXISTING TO REMAIN
XD	EXISTING TO BE DEMOLISHED
XR	EXISTING TO BE RELOCATED
XL	NEW LOCATION OF EXISTING ITEM

GENERAL SYMBOLS LEGEND

1 — SHEET NOTE REFERENCE

3 / E1 — DETAIL NUMBER DESIGNATION; SHEET ON WHICH DETAIL IS LOCATED

CONDUIT STUBOUT

CONDUIT RISING UP

CONDUIT CONCEALED IN WALLS OR CEILING.

CONDUIT DROP DOWN

CONDUIT CONCEALED IN FLOOR, UNDERFLOOR, OR BELOW GRADE

CONDUIT RUN EXPOSED

FLEXIBLE CONDUIT

#8 — CROSSMARKS DENOTE QUANTITY OF NEUTRAL (LONG), PHASE (SHORT), AND GROUND (DOT) CONDUCTORS IN BRANCH CIRCUIT CONDUIT. NO CROSSMARKS DENOTES PHASE, NEUTRAL, AND GROUND WIRES. NUMBER ADJACENT TO CROSSMARKS DENOTES WIRE SIZE OTHER THAN #12 FOR ALL CONDUCTORS UNO.

A-1 — HOMERUN TO PANEL AND CIRCUITS INDICATED.

GENERAL NOTES

1. ALL GROUNDING PER NEC.
2. ELECTRICAL CONTRACTOR TO VERIFY EXACT LOCATION OF RECEPTACLES IN TEL/COM ROOMS PRIOR TO ROUGH-IN.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DOCUMENTATION. COORDINATE WITH ALL OTHER TRADES FOR EQUIPMENT LOCATIONS.
4. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL RECEPTACLES AND DEVICES.
5. COORDINATE WITH EQUIPMENT MANUFACTURER FOR LOCATIONS AND CONNECTIONS.
6. VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN.
7. EACH BRANCH CIRCUIT THAT SUPPLIES NON-LINEAR LOADS INCLUDING COMPUTERS, COMMUNICATION RACKS, ETC. MUST HAVE A DEDICATED NEUTRAL.
8. MULTI-WIRE BRANCH CIRCUITS FOR GENERAL LOADS CAN INCLUDE UP TO THREE PHASE CONDUCTORS WITH A SHARED NEUTRAL IN A RACEWAY IF A MULTI-POLE BREAKER IS PROVIDED TO SIMULTANEOUS DISCONNECT ALL SINGLE POLE CIRCUIT BREAKERS THAT SUPPLY INDIVIDUAL PHASE CONDUCTORS OF THE MULTI-WIRE CIRCUIT.

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.1	LEGEND NOTES AND ABBREVIATIONS
E0.2	SINGLE LINE DIAGRAM
E0.4	PANEL SCHEDULES
E1.1	SITE PLAN OVERALL
E1.2	SITE POWER PLAN DEMO
E1.3	SITE POWER PLAN
E5.1	DETAILS

SINGLE LINE LEGEND

GROUND

CIRCUIT BREAKER

CURRENT TRANSFORMERS

TRANSFORMER DELTA PRIMARY, WYE SECONDARY WITH kVA RATING

SPD — SURGE PROTECTION DEVICE

GFP — GROUND FAULT PROTECTION

CB — ENCLOSED CIRCUIT BREAKER

TC — TIME CLOCK

M — KILOWATT-HOUR METER

M — EXTERNALLY MOUNTED METER

FUSED SWITCH

NON-FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)

FUSIBLE DISCONNECT SWITCH (RATINGS AS NOTED)

2 — MOTOR STARTER (NEMA SIZE AS NOTED)

2 — COMBINATION FUSIBLE DISCONNECT SWITCH AND MOTOR STARTER, (NEMA SIZE AS NOTED, 3Ø, 600 VAC MAXIMUM RATING.

T — TOGGLE TYPE FRACTIONAL HP MANUAL MOTOR STARTER WITH THERMAL OVERLOADS (DELETED IF FOR DISCONNECT USE ONLY) AND HANDLE GUARD/LOCK-OFF, 2 POLES (VERIFY WITH BRANCH CIRCUIT).

EPO — EMERGENCY POWER OFF BUTTON

MOTOR

AUTOMATIC TRANSFER SWITCH

PANEL BOARD

CIRCUIT BREAKER CALLOUT

175 - TRIP SIZE
225 - FRAME
3 - POLE/TRIP TYPE

FUSE CALLOUT

150 - FUSE SIZE
200 - DISCONNECT SIZE
RK1 - POLE/FUSE TYPE

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
30%CD	04/05/21
75%CD	05/20/21
100% CD/Bid Set	08/20/21

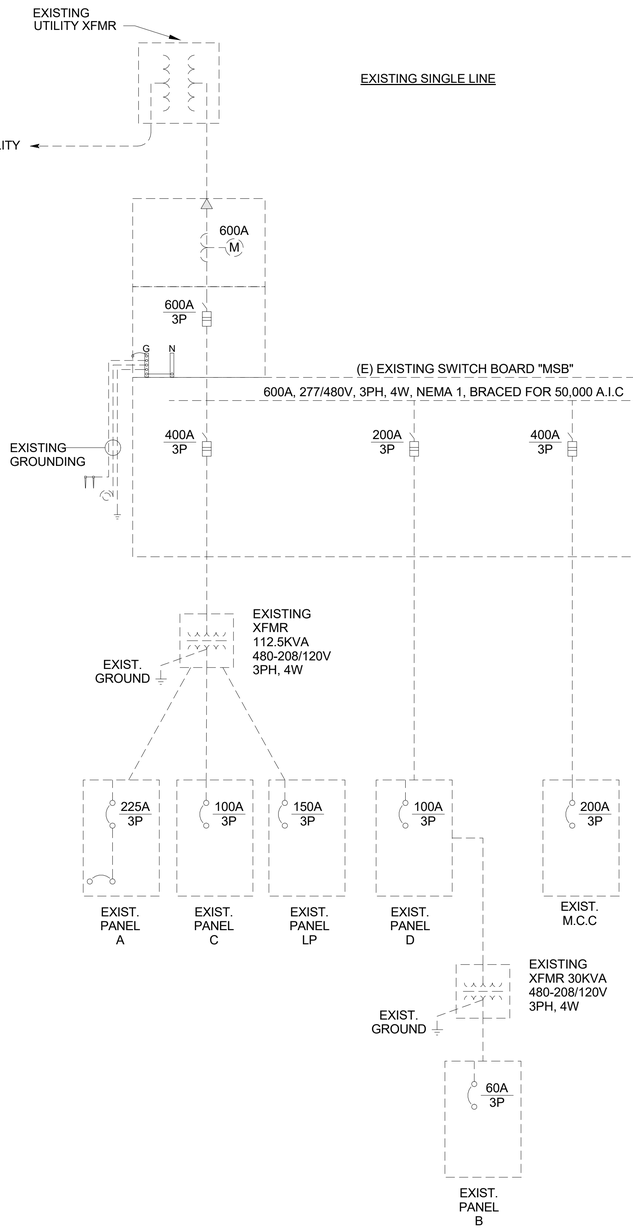
Project Number:	200204
Approved By:	Approver
Checked By:	Checker
Drawn By:	Author

Sheet Title:

LEGEND NOTES AND ABBREVIATIONS

SHEET NUMBER:

E0.1



EXISTING SINGLE LINE

SINGLE LINE NOTES:

1. ALL ELECTRICAL DISTRIBUTION, CONDUIT AND CONDUCTORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.

1 E0.2 SINGLE LINE DIAGRAM
SCALE: 1/2" = 1'-0"

Switchboard: MSB

Location: ELEC ROOM
Supply From: UTILITY
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 50000
Mains Type: CB
Mains Rating: 600 A
MCB Rating: 600 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	T1	3	200 A	175 A	100382 VA	
2	MCC	3	200 A	200 A	126000 VA	
3	PANEL D	3	100 A	100 A	52017 VA	
4						
5						
6						
7						
8						
9						
10						
				Total Conn. Load:	278399 VA	
				Total Amps:	335 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	29937 VA	118.74%	35546 VA		
Receptacle	3300 VA	100.00%	3300 VA	**Total Conn. Load:**	278399 VA
Spare	100202 VA	100.00%	100202 VA	**Total Est. Demand:**	320248 VA
Power	144960 VA	125.00%	181200 VA	**Total Conn.:**	335 A
				Total Est. Demand:	385 A

Notes:
ALL BREAKERS ARE EXISTING TO REMAIN.

Switchboard: MCC

Location:
Supply From: MSB
Mounting: FLOOR
Enclosure: Type 12

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 50000
Mains Type: CB
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	EXISTING	3	100 A	100 A	25000 VA	
2	EXISTING	3	100 A	100 A	25000 VA	
3	EXISTING	3	100 A	100 A	25000 VA	
4	EXISTING	3	100 A	100 A	25000 VA	
5	EXISTING	3	100 A	100 A	25000 VA	
* 6	P2C	3	100 A	100 A	1000 VA	
7						
8						
9						
				Total Conn. Load:	126000 VA	
				Total Amps:	152 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	1000 VA	125.00%	1250 VA		
Power	125000 VA	125.00%	156250 VA	**Total Conn. Load:**	126000 VA
				Total Est. Demand:	157500 VA
				Total Conn.:	152 A
				Total Est. Demand:	189 A

Notes:
* - PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING PANEL BREAKER TYPE, MANUFACTURER AND AIC RATING.

LOAD SUMMARY

EXISTING PANEL 'A'

EXISTING LOAD = 152A

ADDITIONAL LOAD = 3VA
3VA @ 120/208V, 3PH, 4W = 1.3A

TOTAL LOAD ADDED = 1.3 A

TOTAL REVISED LOAD = 154 A

CONCLUSION: ALL EXISTING BREAKERS AND EXISTING 225 AMP PANEL BUS AND EXISTING 225 AMP FEEDER TO PANEL REMAIN ADEQUATE

EXISTING PANEL 'B'

EXISTING LOAD = 12.96[illegible]

REMOVED LOAD = 5.2[illegible]
ADDITIONAL LOAD = 5.5[illegible] VA
5.5KVA @ 120/208V, 3PH, 4W = 15.4A

TOTAL ADDED LOAD = 15.4A

TOTAL REVISED LOAD = 60 A

CONCLUSION: ALL EXISTING BREAKERS AND EXISTING 100 AMP PANEL BUS AND EXISTING 60 AMP FEEDER TO PANEL REMAIN ADEQUATE.
PROVIDE 30 DAY METER DEMAND TO VERIFY THAT THE EXISTING LOAD [illegible]2.96 KVA.

EXISTING PANEL 'D'

EXISTING LOAD = 70A
REMOVED LOAD = 29.6A
ADDITIONAL LOAD = 28.7KVA
28.7KVA @ 277/480V, 3PH, 4W = 35 A

TOTAL LOAD ADDED = 35 A

TOTAL REVISED LOAD = 76 A

CONCLUSION: ALL EXISTING BREAKERS AND EXISTING 100 AMP PANEL BUS AND NEW 100 AMP FEEDER TO PANEL WILL BE ADEQUATE. PROVIDE 30 DAY METER DEMAND TO VERIFY THAT THE EXISTING LOAD

EXISTING SWITCHBOARD 'MSB'

EXISTING LOAD = 318 A

LOAD REMOVED = [illegible] A

TOTAL LOAD ADDED = 51.7A

TOTAL REVISED LOAD = 335 A

CONCLUSION: ALL EXISTING BREAKERS AND EXISTING 600 AMP PANEL BUS AND EXISTING 600 AMP FEEDER TO PANEL REMAIN ADEQUATE

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

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ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
30%CD	04/05/21
75%CD	05/20/21
100% CD/Bid Set	08/20/21

Project Number: 200204
Approved By: Approver
Checked By: Checker
Drawn By: Author

Sheet Title:

SINGLE LINE DIAGRAM

SHEET NUMBER:

E0.2

Branch Panel: A

Location:
Supply From: T
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10000
Mains Type: MLO
Mains Rating: 225 A
MCB Rating:

Notes:

	CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
*	1	HEATER WATER FANS	20 A	1	1392...	180 VA					1	20 A	FM1C - FLOW METER	2 *
	3	LIGHTS - COMMUNITY RM	20 A	1			1875...	0 VA			--	--	Space	4
	5	LIGHTS - GUARDS, CASH, LOBBY	20 A	1					1789...	0 VA	--	--	Space	6
	7	LIGHTS - MENS LOCKER	20 A	1	1775...	900 VA					1	20 A	RECEPTS - COMMUNITY RM	8
	9	LIGHTS - WOMENS LOCKER	20 A	1			1525...	720 VA			1	20 A	RECEPTS - COMMUNITY RM	10
	11	LIGHTS - MECH ROOM	20 A	1					1250...	720 VA	1	20 A	RECEPTS - COMMUNITY RM	12
	13	LIGHTS - MECH ROOM	20 A	1	1408...	2300...					1	20 A	J-BOX - HAND DRYER	14
	15	J-BOX - HAIR DRYER	20 A	1			2300...	2300...			1	20 A	J-BOX - HAND DRYER	16
	17	J-BOX - HAIR DRYER	20 A	1					2300...	540 VA	1	20 A	RECEPTS	18
	19	J-BOX - HAIR DRYER	20 A	1	2300...	1500...					1	20 A	RECEPTS - CASHIER, LOBBY	20
	21	RECEPTS - CO2 & E.F.	20 A	1			875 VA	1200...			1	20 A	RECEPTS - E.D.F.	22
	23	RECEPTS - T.M.B	20 A	1					180 VA	1000...	1	20 A	RECEPTS - PAY PHONE	24
	25	RECEPTS - CHLORINE RM	20 A	1	420 VA	540 VA					1	20 A	RECEPTS - GUARDS	26
	27	RECEPTS - CO2 ROOM	20 A	1			180 VA	360 VA			1	20 A	RECEPTS - GUARDS	28
	29	CU-1/FC-1/EF-2	30 A	3					2544...	360 VA	1	20 A	RECEPTS - GUARDS	30
	31	--	--	--	2544...	540 VA					1	20 A	RECEPTS - RESTROOMS, EXTERIOR	32
	33	--	--	--			2544...	2300...			1	20 A	J-BOX - HAND DRYER	34
	35	SIGN J-BOX - SITE	20 A	1					1500...	2300...	1	20 A	J-BOX - HAND DRYER	36
	37	LIGHTS - EXTERIOR & SOFFIT	20 A	1	375 VA	1767...					3	20 A	EF-1/EF-4/EF-6	38
	39	LIGHTS - SITE	20 A	1			1750...	1767...			--	--	--	40
	41	LIGHTS - SITE	20 A	1					1750...	1767...	--	--	--	42
				Total Load:	17941 VA		19696 VA		18000 VA					
				Total Amps:	150 A		164 A		150 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Spare	55457 VA	100.00%	55457 VA		
Power	180 VA	125.00%	225 VA	**Total Conn. Load:**	55637 VA
				Total Est. Demand:	55682 VA
				Total Conn.:	154 A
				Total Est. Demand:	155 A

Notes:
* PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING PANEL BREAKER TYPE, MANUFACTURER AND AIC RATING.

Branch Panel: D

Location:
Supply From: MSB
Mounting: Surface
Enclosure: EXIST

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type: MCB
Mains Rating: 100 A
MCB Rating: 100 A

Notes:

	CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
*	1	P1D	15 A	3	2167...	7479...					3	50 A	P2D	2 *
	3	--	--	--			2167...	7479...			--	--	--	4
	5	--	--	--					2167...	7479...	--	--	--	6
	7	T2	175 A	3	5570...	0 VA					--	--	Space	8
	9	--	--	--			7370...	0 VA			--	--	Space	10
	11	--	--	--					5570...	0 VA	--	--	Space	12
	13	EXISTING LOAD	20 A	3	1523...	0 VA					--	--	Space	14
	15	--	--	--			1523...	0 VA			--	--	Space	16
	17	--	--	--					1523...	0 VA	--	--	Space	18
	19	EXISTING LOAD	--	--	0 VA	0 VA					--	--	Space	20
	21	Space	--	--			0 VA	0 VA			--	--	Space	22
	23	Space	--	--					0 VA	0 VA	--	--	Space	24
	25	Space	--	--	0 VA	0 VA					--	--	Space	26
	27	Space	--	--			0 VA	0 VA			--	--	Space	28
	29	Space	--	--					0 VA	0 VA	--	--	Space	30
	31	Space	--	--	0 VA	0 VA					--	--	Space	32
	33	Space	--	--			0 VA	0 VA			--	--	Space	34
	35	Space	--	--					0 VA	0 VA	--	--	Space	36
	37	Space	--	--	0 VA	0 VA					--	--	Space	38
	39	Space	--	--			0 VA	0 VA			--	--	Space	40
	41	Space	--	--					0 VA	0 VA	--	--	Space	42
				Total Load:	16739 VA		18539 VA		16739 VA					
				Total Amps:	60 A		67 A		60 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	28937 VA	119.38%	34546 VA		
Receptacle	3300 VA	100.00%	3300 VA	**Total Conn. Load:**	52017 VA
Power	19780 VA	125.00%	24725 VA	**Total Est. Demand:**	62571 VA
				Total Conn.:	63 A
				Total Est. Demand:	75 A

Notes:
* - PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING PANEL BREAKER TYPE, MANUFACTURER AND AIC RATING.

Branch Panel: B

Location:
Supply From: T2
Mounting: Surface
Enclosure: EXIST

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42000
Mains Type: CB
Mains Rating: 100 A
MCB Rating: 60 A **

Notes:

	CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
	1	EXISTING CIRCUITS	20 A	1	0 VA	0 VA					1	20 A	EXISTING CIRCUITS	2
	3	EXISTING CIRCUITS	20 A	1			0 VA	0 VA			1	20 A	EXISTING CIRCUITS	4
	5	EXISTING CIRCUITS	20 A	1					0 VA	0 VA	1	20 A	EXISTING CIRCUITS	6
	7	EXISTING CIRCUITS	20 A	1	0 VA	0 VA					1	20 A	EXISTING CIRCUITS	8
	9	EXISTING CIRCUITS	20 A	1			0 VA	0 VA			1	20 A	EXISTING CIRCUITS	10
	11	EXISTING CIRCUITS	20 A	1					0 VA	0 VA	1	20 A	EXISTING CIRCUITS	12
	13	EXISTING CIRCUITS	20 A	1	0 VA	0 VA					1	20 A	EXISTING CIRCUITS	14
	15	EXISTING CIRCUITS	20 A	1			0 VA	0 VA			2	30 A	EXISTING CIRCUITS	16
	17	EXISTING CIRCUITS	20 A	2					0 VA	0 VA	--	--	--	18
	19	--	--	--	0 VA	0 VA					3	15 A	EXISTING CIRCUITS	20
*	21	UV1D - UV CHAMBER	20 A	2			750 VA	0 VA			--	--	--	22
	23	--	--	--					750 VA	0 VA	--	--	--	24
*	25	CP1D - CHLORINATOR	30 A	1	750 VA	0 VA					--	--	Space	26
*	27	C1D - CHEM CONTROL	20 A	1			1800...	0 VA			--	--	Space	28
*	29	FM1D - FLOW METER	20 A	1					500 VA	0 VA	--	--	Space	30
*	31	AF1D - WATER LEVEL CONTROL	20 A	1	500 VA	0 VA					--	--	Space	32
*	33	AP1D - ACID CHEM FEED PUMP	20 A	1			500 VA	0 VA			--	--	Space	34
	35	Space	--	--					0 VA	0 VA	--	--	Space	36
	37	EXISTING LOAD	20 A	3	4320...	0 VA					--	--	Space	38
	39	--	--	--			4320...	0 VA			--	--	Space	40
	41	--	--	--					4320...	0 VA	--	--	Space	42
				Total Load:	5570 VA		7370 VA		5570 VA					
				Total Amps:	46 A		61 A		46 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	3300 VA	100.00%	3300 VA		
Power	15210 VA	125.00%	19013 VA	**Total Conn. Load:**	18510 VA
				Total Est. Demand:	22313 VA
				Total Conn.:	51 A
				Total Est. Demand:	62 A

Notes:
* PROVIDE NEW BREAKER IN EXISTING PANEL. MATCH EXISTING PANEL BREAKER TYPE, MANUFACTURER AND AIC RATING. ** PROVIDE NEW MAIN 100A BREAKER IN EXISTING BUCKET

For Council Approval
Not for Bidding

005-106

REGISTERED PROFESSIONAL ENGINEER
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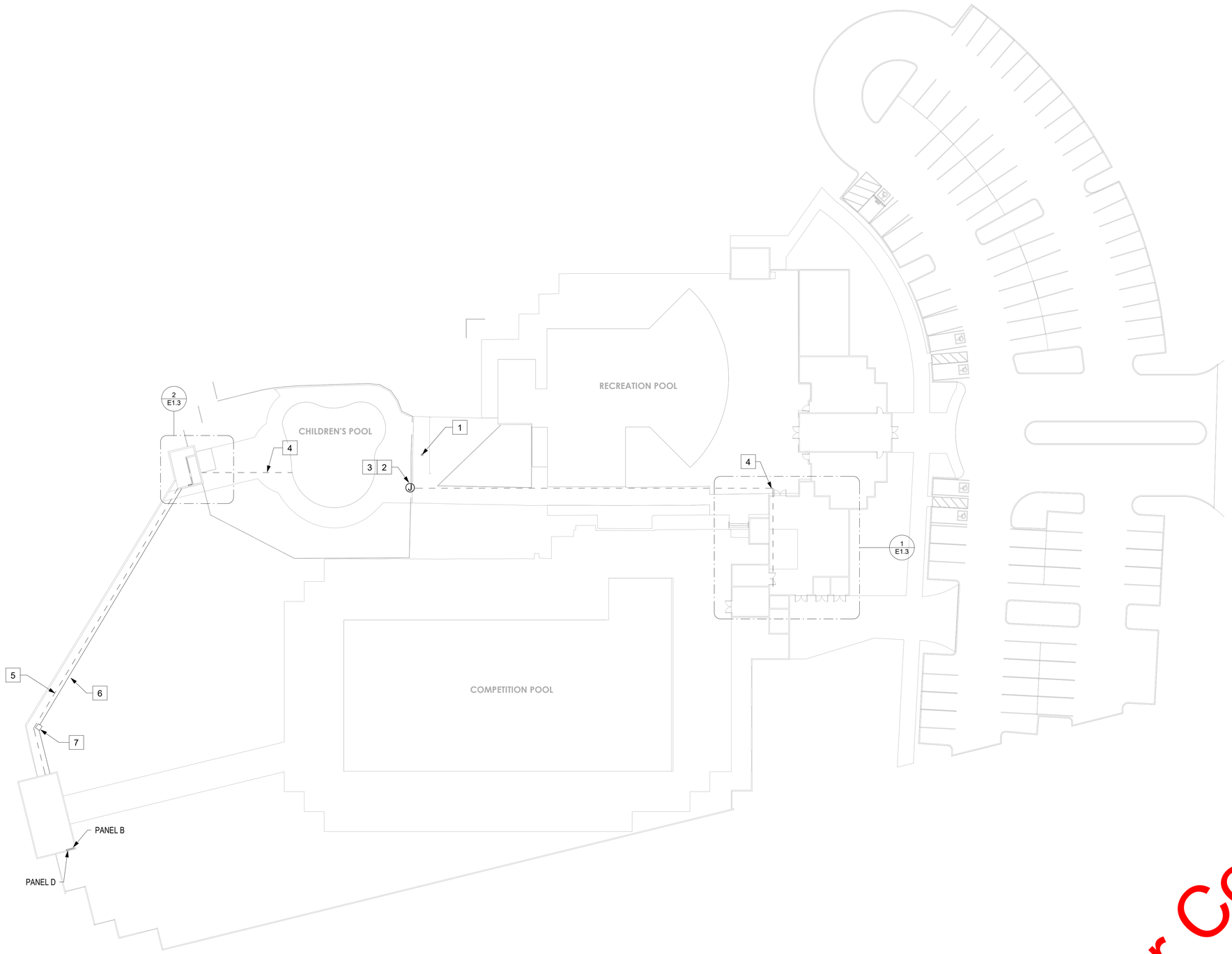
Project Number: 200204
Approved By: Approver
Checked By: Checker
Drawn By: Author

Sheet Title:

PANEL SCHEDULES

SHEET NUMBER:

E0.4



1 FLOOR POWER PLAN
E1.1 SCALE: 1 : 300

SHEET NOTES

Key Value	Keynote Text
1	INTERCEPT AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW POLE LIGHT LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. SEE POLE BASE DETAIL SHEET E5.1
2	INTERCEPT AND EXTEND EXISTING CONDUIT AND CONDUCTORS TO NEW PLATFORM LIGHT LOCATION. COORDINATE EXACT LOCATION WITH ARCHITECT AND AQUATIC PLANS PRIOR TO ROUGH IN.
3	PROVIDE EMERGENCY SHUTDOWN BUTTON FOR SLIDE PUMPS AT TOWER PLATFORM. COORDINATE EXACT PLACEMENT WITH ARCHITECT PRIOR TO ROUGH IN.
4	RE-USE EXISTING UNDERGROUND CONDUITS BACK TO ELECTRICAL ROOM. CONTRACTOR SHALL COORDINATE EXISTING CONDUIT LOCATION PRIOR TO COMMENCEMENT OF WORK
5	EXISTING UNDERGROUND CONDUITS BACK TO ELECTRICAL ROOM. CONTRACTOR SHALL COORDINATE EXISTING CONDUIT LOCATION PRIOR TO COMMENCEMENT OF WORK
6	PROVIDE (7)1/2" AND (1)3/4" CONDUITS UNDERGROUND BACK TO MECH ROOM. SEE SHEET E1.3 FOR CONDUIT AND CONDUCTORS SIZE. CONTRACTOR SHALL COORDINATE ROUTING WITH ARCHITECT AND CIVIL PRIOR TO ROUGH IN.
7	PROVIDE NEW CONCRETE HANDHOLE. COORDINATE PLACMENT WITH ARCHITECT PRIOR TOR ROUGH IN.

GENERAL NOTES:

A	ELECTRICAL CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCMENT OF WORK.
B	ALL PANELS LOACTED ON SITE ARE EXISTING TO REMAIN.

For Council Approval
Not for Bidding

005-106

REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

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8561 Commerce Ave. #112
San Diego, CA 92121
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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

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75%CD	05/20/21
100% CD/Bid Set	08/20/21

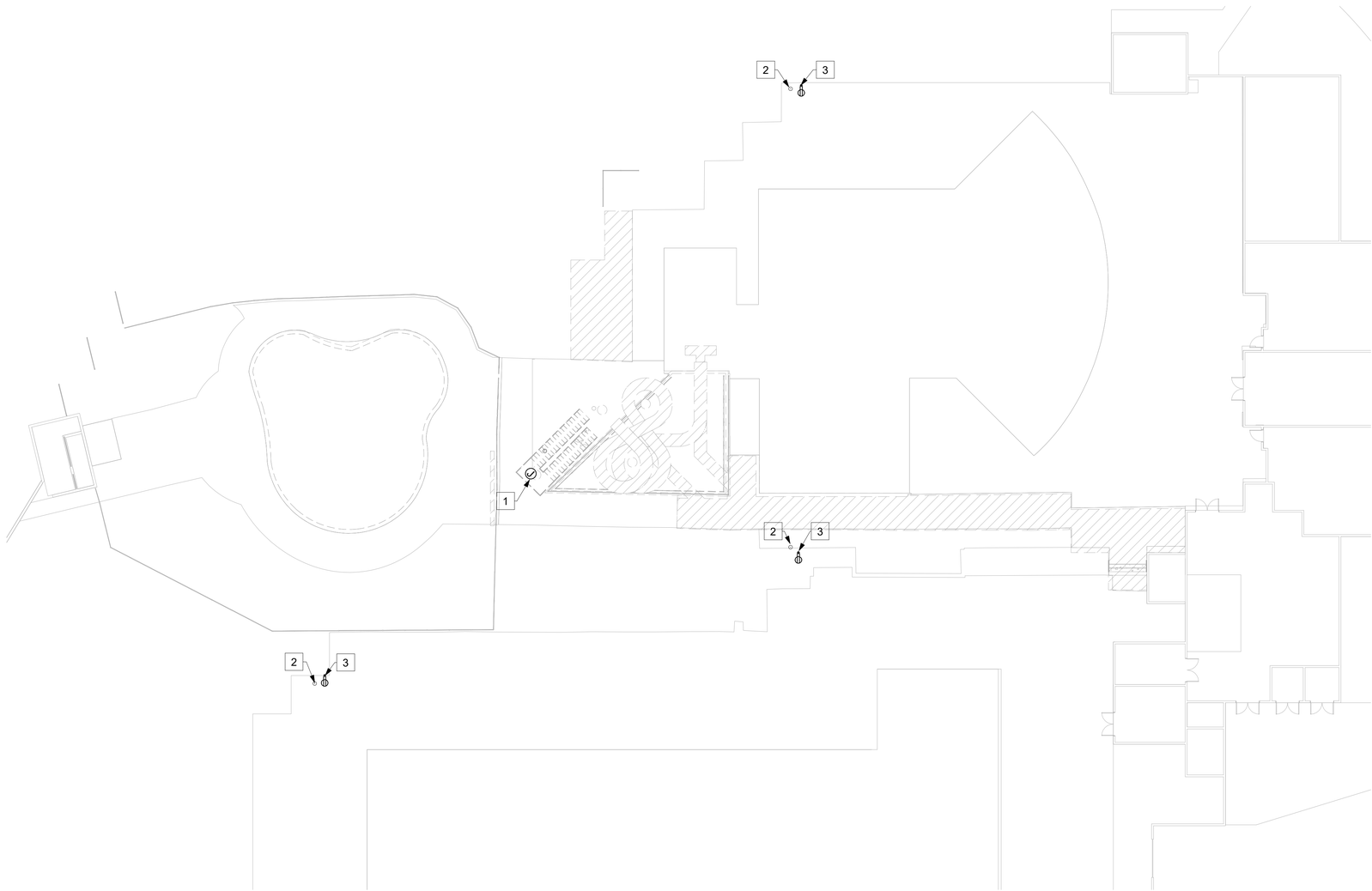
Project Number:	200204
Approved By:	AN
Checked By:	AN
Drawn By:	KS

Sheet Title:

SITE PLAN OVERALL

SHEET NUMBER:

E1.1



1 SITE DEMO PLAN POWER
E1.2 SCALE: 1/16" = 1'-0"

SHEET NOTES

Key Value	Keynote Text
1	EXISTING PLATFORM LIGHTS TO BE RELOCATED.
2	LIGHT POLE FIXTURES ARE TO REMAIN UNO.
3	EXTERIOR RECEPTACLES ARE TO REMAIN UNO.

GENERAL NOTES:

A	ELECTRICAL CONTRACTOR TO VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO COMMENCMENT OF WORK.
B	ELECTRICAL CONTRACTOR SHALL VERFIY EXACT DEMO AREA OF WATERSLIDE WITH ARCHITECT PRIOR TO COMMENCMENT OF WORK.
C	ALL CIRCUITS ON PANEL SCHEDULES REFERENCED BUT NOT ON PLAN ARE TO REMAIN.

For Council Approval
Not for Bidding

005-106

REGISTERED PROFESSIONAL ENGINEER
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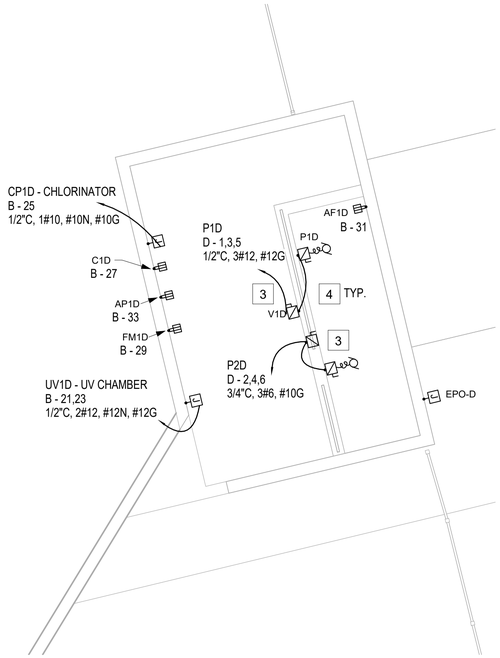
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Approved By:	AN
Checked By:	AN
Drawn By:	KS

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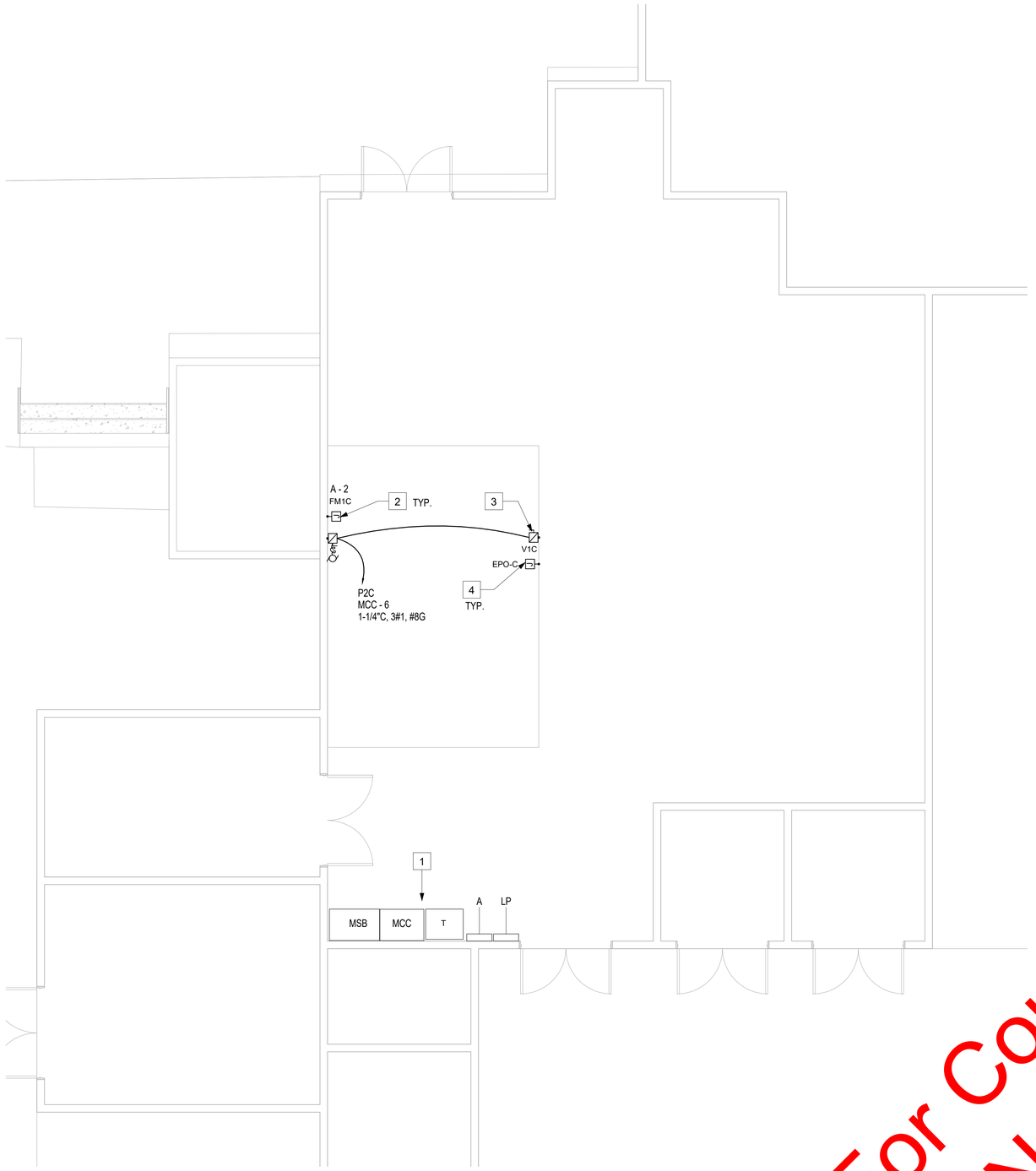
SITE POWER PLAN DEMO

SHEET NUMBER:

E1.2



2 E1.3 MECH PLAN
SCALE: 1/4" = 1'-0"



1 E1.3 SITE PLAN POWER - BLDG
SCALE: 1/4" = 1'-0"

SHEET NOTES

Key Value	Keynote Text
1	ALL PANELS IN THIS ROOM ARE EXISTING TO REMAIN AS IS UNLESS OTHERWISE SPECIFIED.
2	COORDINATE EXACT LOCATION OF POOL EQUIPMENT WITH POOL DRAWINGS PRIOR TO ROUGH IN.
3	PUMP POWERED FROM VFD. COORDINATE LOCATION AND CONNECTION OF VFD WITH POOL VENDOR PRIOR TO ROUGH IN.
4	REFER TO POOL CONSULTANT DRAWINGS PL400 AND PL510. PROVIDE 1/2"C WITH PULL STRING FOR ALL LOW VOLTAGE WIRE INDICATED.

GENERAL NOTES:

A	COORDINATE POWER CONNECTIONS WITH MANUFACTURER RECOMMENDATIONS PRIOR ROUGH IN.
B	ALL CIRCUITS ON PANEL SCHEDULES REFERENCED BUT NOT ON PLAN AS EXISTING TO REMAIN OR REUSED.
C	ELECTRICAL CONTRACTOR SHALL VERIFY LOCATIONS AND PLACEMENT OF ELECTRICAL CONNECTIONS FOR SLIDE EQUIPMENT WITH MANUFACTURER PRIOR TO ROUGH IN.

GENERAL POOL NOTE:

A	IN ADDITION TO ALL OTHER GROUNDING AND BONDING REQUIREMENTS PROVIDE EQUIPOTENTIAL BONDING THROUGHOUT THE POOL AREA AS REQUIRED BY CEC 680.26. BONDING CONDUCTORS SHALL BE #8 AWG SOLID BARE COPPER. EQUIPOTENTIAL BONDING REQUIREMENTS INCLUDE BONDING PERIMETER SURFACES WITHIN 3 FEET HORIZONTALLY BEYOND THE INSIDE WALL OF THE POOL TO THE STRUCTURAL REINFORCING STEEL OF THE POOL SHELL AT A MINIMUM OF FOUR POINTS SPACED EQUAL DISTANCE AROUND THE PERIMETER OF THE POOL. EQUIPONTENTIAL BONDING REQUIREMENTS ALSO INCLUDES BONDING OF METALLIC POOL COMPONENTS, METALLIC FORMING SHELLS FOR UNDERWATER LIGHTING, METAL PARTS OF ELECTRICAL EQUIPMENT ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, FIXED METAL PARTS WITH 5 FEET HORIZONTALLY OR 12 FEET VERITCALLY OF THE POOL, AND THE POOL WATER ITSELF. REFER TO CEC 680.026 FOR DETAIULED REQUIREMENTS AND EXCEPTIONS REGUARDING REQUIREMENTS AND EXCEPTIONS REGUARDING EQUIPOTENTIAL BONDING.

For Council Approval
Not for Bidding

005-106

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PROJECT:

CITY OF ROSEVILLE

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ROSEVILLE, CA 95747

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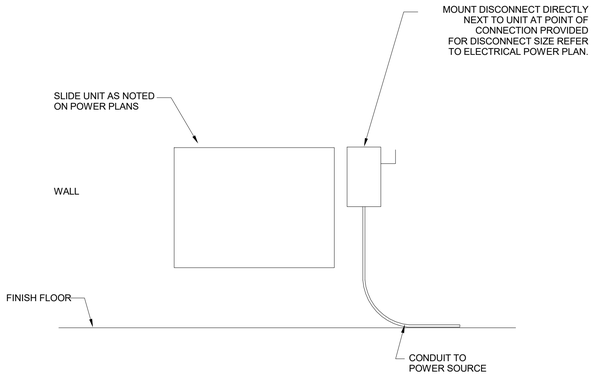
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Approved By:	Approver
Checked By:	Checker
Drawn By:	Author

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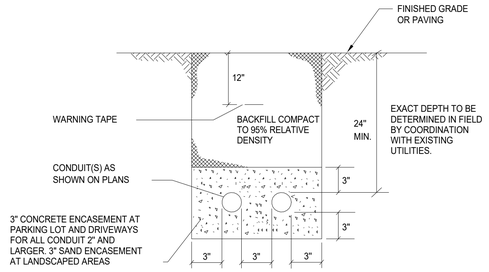
SITE POWER PLAN

SHEET NUMBER:

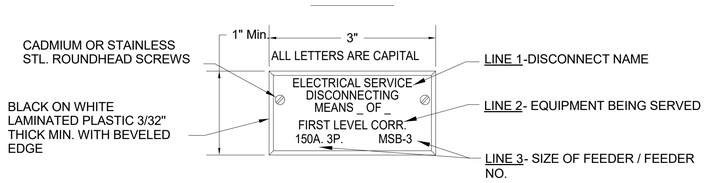
E1.3



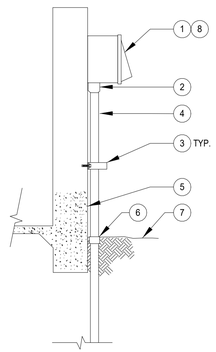
1 E5.1 DISCONNECT MOUNTING DETAIL
SCALE: 12" = 1'-0"



3 E5.1 TRENCHING DETAIL
SCALE: 12" = 1'-0"



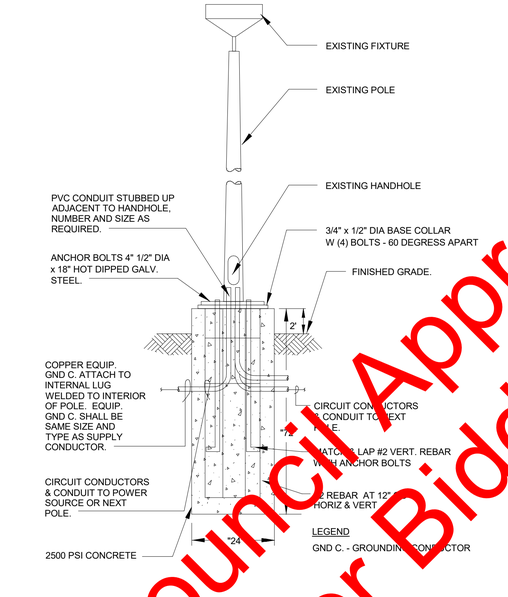
2 E5.1 DISCONNECT NAMEPLATE DETAIL
SCALE: 12" = 1'-0"



NOTES:

1. WEATHERPROOF BOX. JUNCTION BOX SIZED PER NEC.
2. THREADED HUB.
3. GALVANIZED PIPE STRAP, TYP.
4. RGS CONDUIT.
5. STRUCTURE WALL OR UNISTRUT.
6. TRANSITION COUPLING.
7. FINISH GRADE.
8. WHERE NECESSARY.
9. PAINT CONDUITS AND JUNCTION BOX TO MATCH SURFACE.

4 E5.1 RECEPTACLE MOUNT DETAIL
SCALE: 12" = 1'-0"



5 E5.1 POLE BASE DETAIL
SCALE: 1" = 1'-0"

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3051 WOODCREEK OAKS BLVD.
ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

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Project Number:	200204
Approved By:	Approver
Checked By:	Checker
Drawn By:	Author

Sheet Title:

DETAILS

SHEET NUMBER:

E5.1

GENERAL DEMOLITION NOTES:

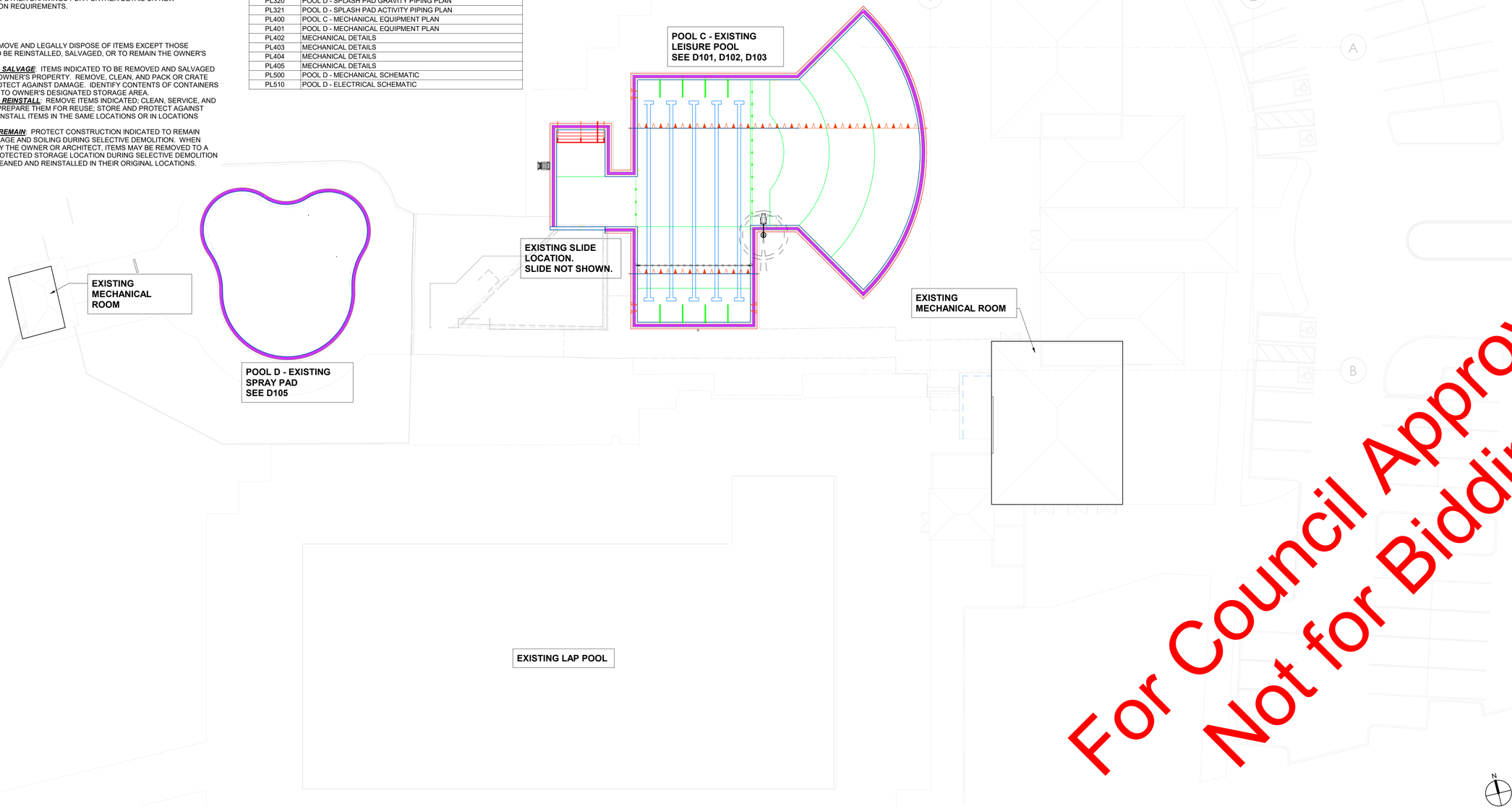
1. ALL CONDITIONS SHOWN ON THIS DRAWING ARE EXISTING. OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF INFORMATION SHOWN. ORIGINAL CONSTRUCTION DOCUMENTS FOR EXISTING FACILITY ARE ON FILE WITH JKA ARCHITECTECTS. CONTRACTORS ARE RESPONSIBLE TO VISIT THE SITE AND REVIEW ALL DOCUMENTS PRIOR TO SUBMITTING THEIR BID TO COMPLETELY FAMILIARIZE THEMSELVES WITH ALL CONDITIONS.
2. DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC IN NATURE, AND MAY NOT DESCRIBE ALL MISCELLANEOUS WORK NECESSARY TO COMPLETE THE DEMOLITION AND NEW WORK. CONTRACTOR SHALL INCLUDE THIS MISCELLANEOUS NECESSARY WORK IN BASE BID.
3. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING POOL EQUIPMENT WITHIN THE LIMITS INDICATED WITH HATCHING ( ). SEE DRAWING NOTES FOR EQUIPMENT THAT SHALL BE REUSED IN PLACE AND EQUIPMENT THAT SHALL BE RELOCATED AND REUSED.
4. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL EXISTING ABOVE GRADE POOL RECIRCULATION SYSTEM PIPING, VALVES, FITTINGS, PIPING SUPPORTS, AND SUPPORT FASTENING HARDWARE. THIS SYSTEM PIPING TO INCLUDE BUT IS NOT LIMITED TO: POOL FILTRATION SUPPLY AND RETURN, POOL CHEMICAL TREATMENT SUPPLY AND RETURN, POOL HEATER SUPPLY AND RETURN, ACTIVITY PUMP SUPPLY AND RETURN, SLIDE PUMP SUPPLY AND RETURN.
5. CONTRACTOR SHALL DISCONNECT AND REMOVE ALL FILTRATION PUMP SUCTION PIPING, VALVES, FITTINGS, PIPING SUPPORTS, AND SUPPORT FASTENING HARDWARE LOCATED INSIDE THE SURGE TANK.
6. CONTRACTOR TO VERIFY ASBESTOS TEST REQUIREMENTS AND CONDUCT ANY REQUIRED TESTING PRIOR TO CONSTRUCTION.
7. UNLESS NOTED OTHERWISE ON THE PLAN, CONTRACTOR SHALL DISPOSE OF ALL REMOVED EQUIPMENT AND MATERIALS IN A LEGAL MANNER OFF SITE. COPIES OF ALL MANIFESTS SHALL BE GIVEN TO THE OWNER SHOWING FINAL DISPOSAL LOCATION OF ALL MATERIALS.
8. CONTRACTOR SHALL PROTECT ALL CATCH BASINS, SEWER INLETS, ETC., FROM DEBRIS AND SEDIMENTATION DURING DEMOLITION.
9. CONTRACTOR SHALL LIMIT THE EXTENT OF HIS DISRUPTION TO THE INDICATED WORK AREA, AND TAKE CARE NOT TO DISRUPT THE SURROUNDING AREA.
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND TERMINATING EXISTING ELECTRICAL POWER, WATER, AND GAS LINES WITH LOCAL UTILITIES.
11. REFER TO STRUCTURAL SD SERIES DRAWINGS, MECHANICAL MD SERIES DRAWINGS, ELECTRICAL ED SERIES DRAWINGS, AND PLUMBING PD SERIES DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
12. REFER TO ALL OTHER DRAWINGS FOR FURTHER DETAIL ON NEW CONSTRUCTION REQUIREMENTS.

DEFINITIONS:

A. ***REMOVE***: REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.
B. ***REMOVE AND SALVAGE***: ITEMS INDICATED TO BE REMOVED AND SALVAGED REMAIN THE OWNER'S PROPERTY. REMOVE, CLEAN, AND PACK OR CRATE ITEMS TO PROTECT AGAINST DAMAGE. IDENTIFY CONTENTS OF CONTAINERS AND DELIVER TO OWNER'S DESIGNATED STORAGE AREA.
C. ***REMOVE AND REINSTALL***: REMOVE ITEMS INDICATED; CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE; STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEMS IN THE SAME LOCATIONS OR IN LOCATIONS INDICATED.
D. ***EXISTING TO REMAIN***: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY THE OWNER OR ARCHITECT, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND THEN CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS.

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
D100	OVERALL EXISTING POOLS
D101	EXISTING LEISURE POOL DEMOLITION PLAN
D102	EXISTING LEISURE POOL DEMOLITION PLAN
D103	EXISTING LEISURE POOL DEMOLITION DETAILS
D104	EXISTING LEISURE POOL DEMOLITION DETAILS
D105	DEMOLITION OF EXISTING SPRAY PAD PLAN WITH STRUCTURE
D400	MECHANICAL DEMOLITION PLAN
PL100	OVERALL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN
PL111	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN
PL112	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL113	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL114	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL120	POOL D - SPRAY PAD PLANS, SCHEDULE, AND DETAILS
PL121	POOL D - SPRAY PAD DIMENSION PLAN AND SECTION
PL122	POOL D - SPRAY PAD SURFACE PLAN
PL123	POOL D - SPRAY PAD DETAILS
PL124	POOL D - SPRAY PAD DETAILS
PL125	POOL D - SPRAY PAD DETAILS
PL126	POOL D - SPRAY PAD DETAILS
PL127	POOL D - SPRAY PAD DETAILS
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL201	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	GENERAL PIPING DETAILS
PL310	POOL C - PIPING PLAN
PL311	POOL C - PIPING PLAN
PL312	3D - PIPING VIEWS
PL320	POOL D - SPLASH PAD GRAVITY PIPING PLAN
PL321	POOL D - SPLASH PAD ACTIVITY PIPING PLAN
PL400	POOL C - MECHANICAL EQUIPMENT PLAN
PL401	POOL D - MECHANICAL EQUIPMENT PLAN
PL402	MECHANICAL DETAILS
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL500	POOL D - MECHANICAL SCHEMATIC
PL510	POOL D - ELECTRICAL SCHEMATIC



1 D100 EXISTING AQUATIC PLAN VIEW
1/16" = 1'-0"

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PROJECT:

CITY OF ROSEVILLE

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CITY OF ROSEVILLE CALIFORNIA

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5/20/2021

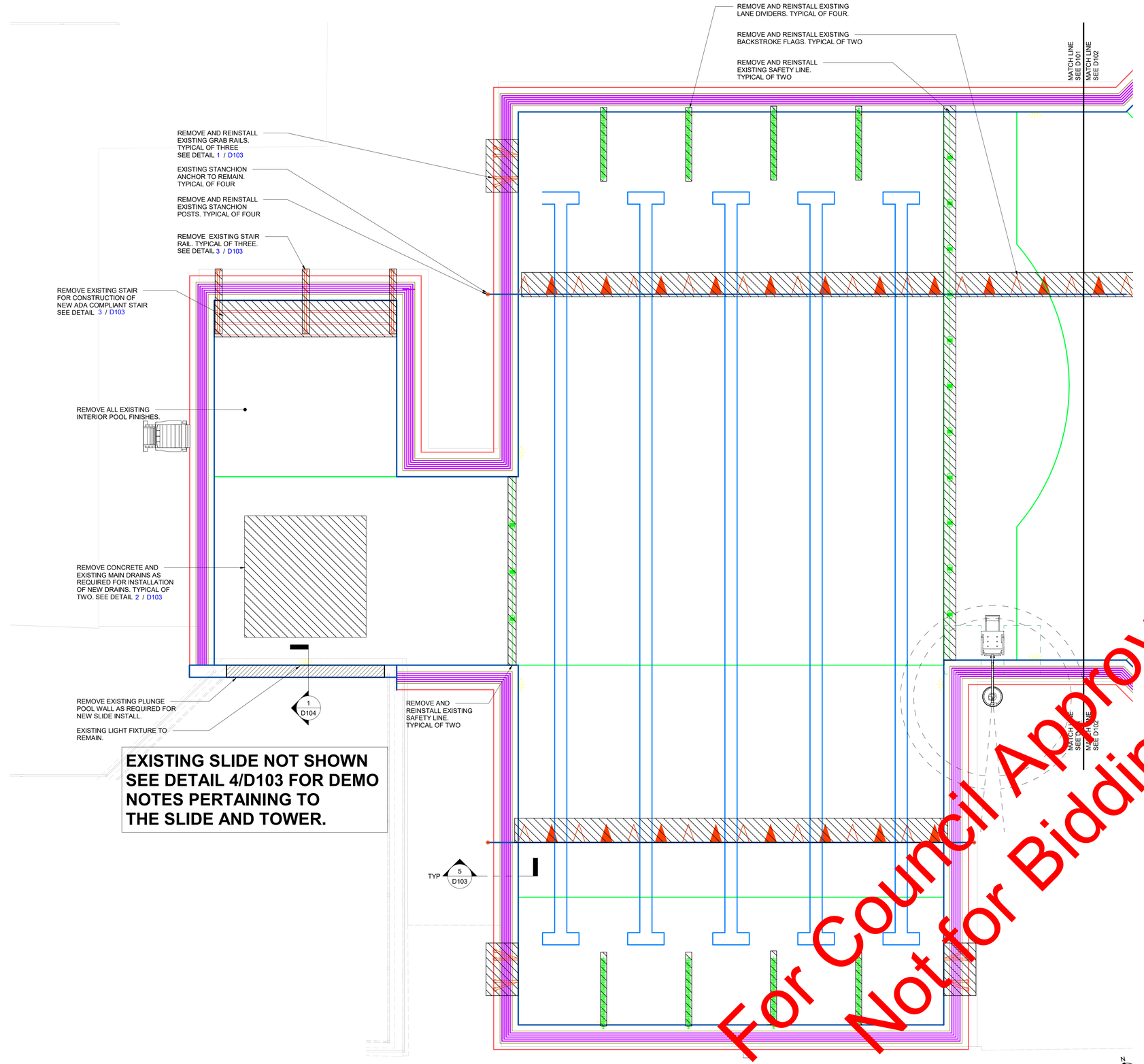
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

OVERALL EXISTING POOLS

SHEET NUMBER:

D100



1 D101 POOL C -DEMOLITION PLAN OF EXISTING LEISURE POOL
PLAN VIEW
1/4" = 1'-0"

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REGISTERED ARCHITECT Jeffrey Katz C-20536 4/30/2023 CALIFORNIA
5/20/2021

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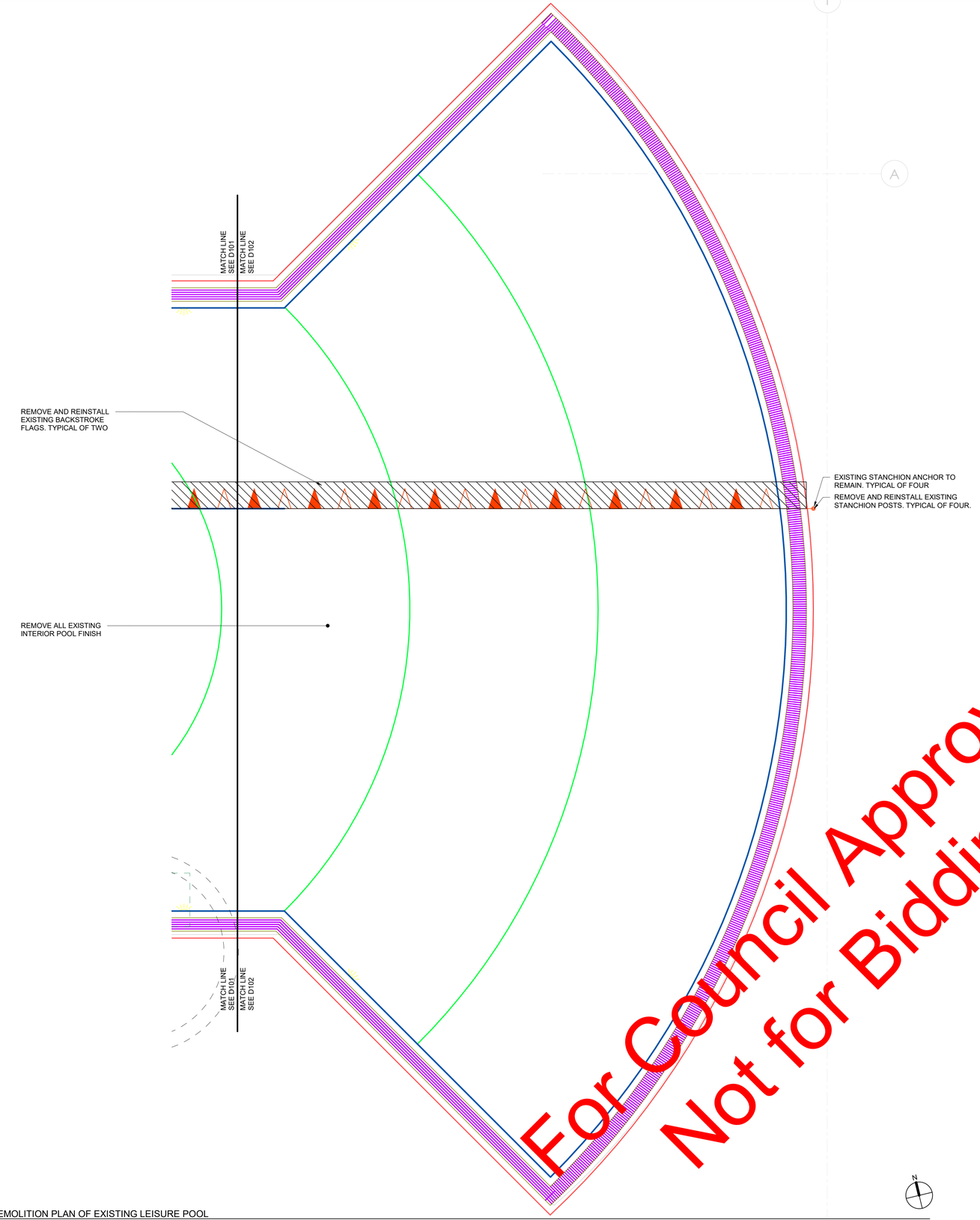
Project Number:	19285
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Checked By:	JRB
Drawn By:	JVH

Sheet Title:

EXISTING LEISURE POOL DEMOLITION PLAN

SHEET NUMBER:

D101



1 | D102 POOL C - DEMOLITION PLAN OF EXISTING LEISURE POOL
PLAN VIEW
1/4" = 1'-0"

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REGISTERED ARCHITECT
C-20538
4/30/2023
Renewal Date
STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	Approver
Checked By:	Checker
Drawn By:	Author

Sheet Title:

EXISTING LEISURE POOL DEMOLITION PLAN

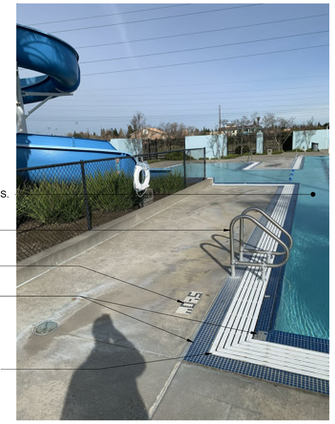
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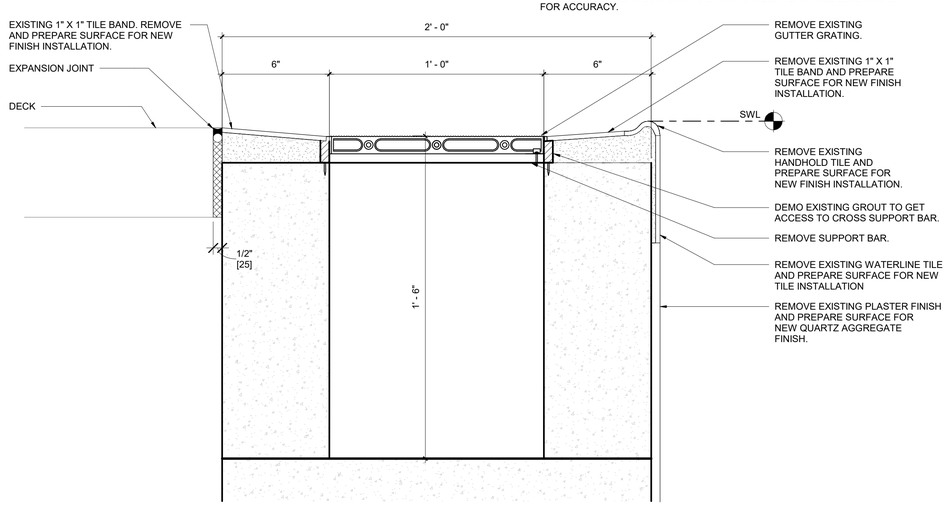


4 | D103 EXISTING CONDITION DETAIL VIEW
NOT TO SCALE

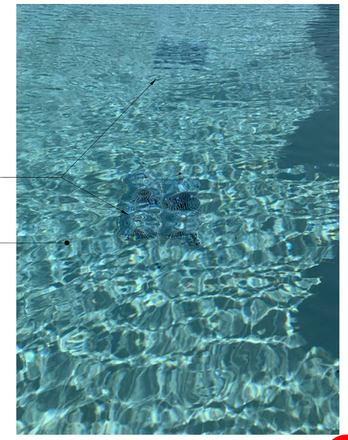


1 | D103 EXISTING CONDITION DETAIL VIEW
NOT TO SCALE

NOTE:
DIMENSIONS SHOWN BASED ON EXISTING AQUA DESIGN GROUP DRAWINGS PROVIDED BY ARCHITECT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS FOR ACCURACY.



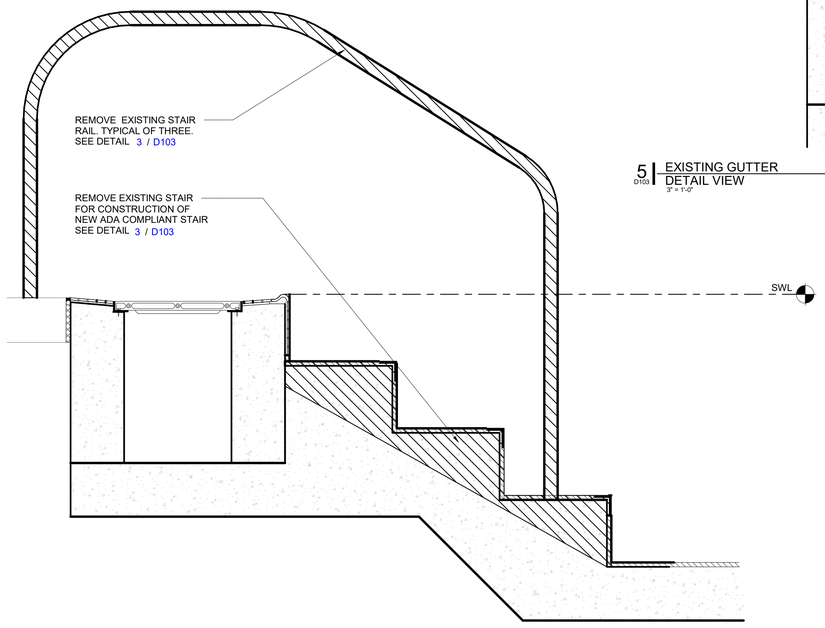
5 | D103 EXISTING GUTTER DETAIL VIEW
3" = 1'-0"



2 | D103 EXISTING CONDITION DETAIL VIEW
NOT TO SCALE



3 | D103 EXISTING CONDITION 4 DETAIL VIEW
NOT TO SCALE



6 | D103 EXISTING STAIRS- DEMO PLAN VIEW
1 1/2" = 1'-0"

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CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT Jeffrey Katz C-20536 8/30/2023 Expiration Date STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

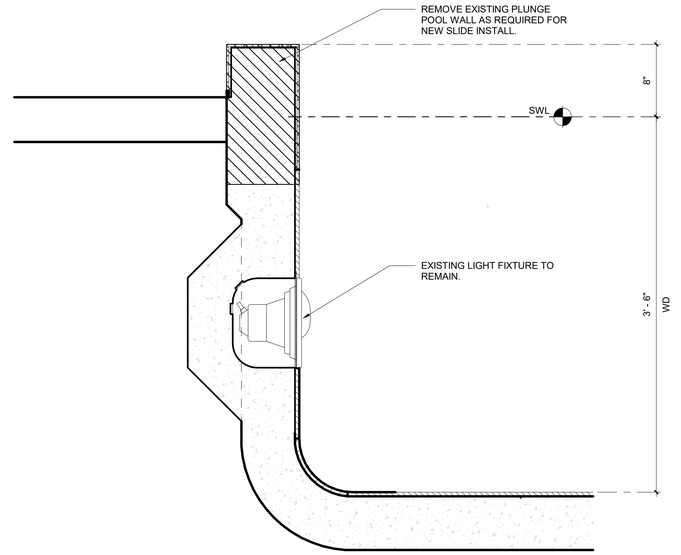
Sheet Title:

EXISTING LEISURE POOL DEMOLITION DETAILS

SHEET NUMBER:

D103

For Council Approval
Not for Bidding



1 D104 EXISTING POOL WALL - AT SLIDE WALL DETAIL VIEW
1 1/2" = 1'-0"

For Council Approval
Not for Bidding

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT C-20535 Renewal Date 8/31/2023 STATE OF CALIFORNIA
8/20/2021

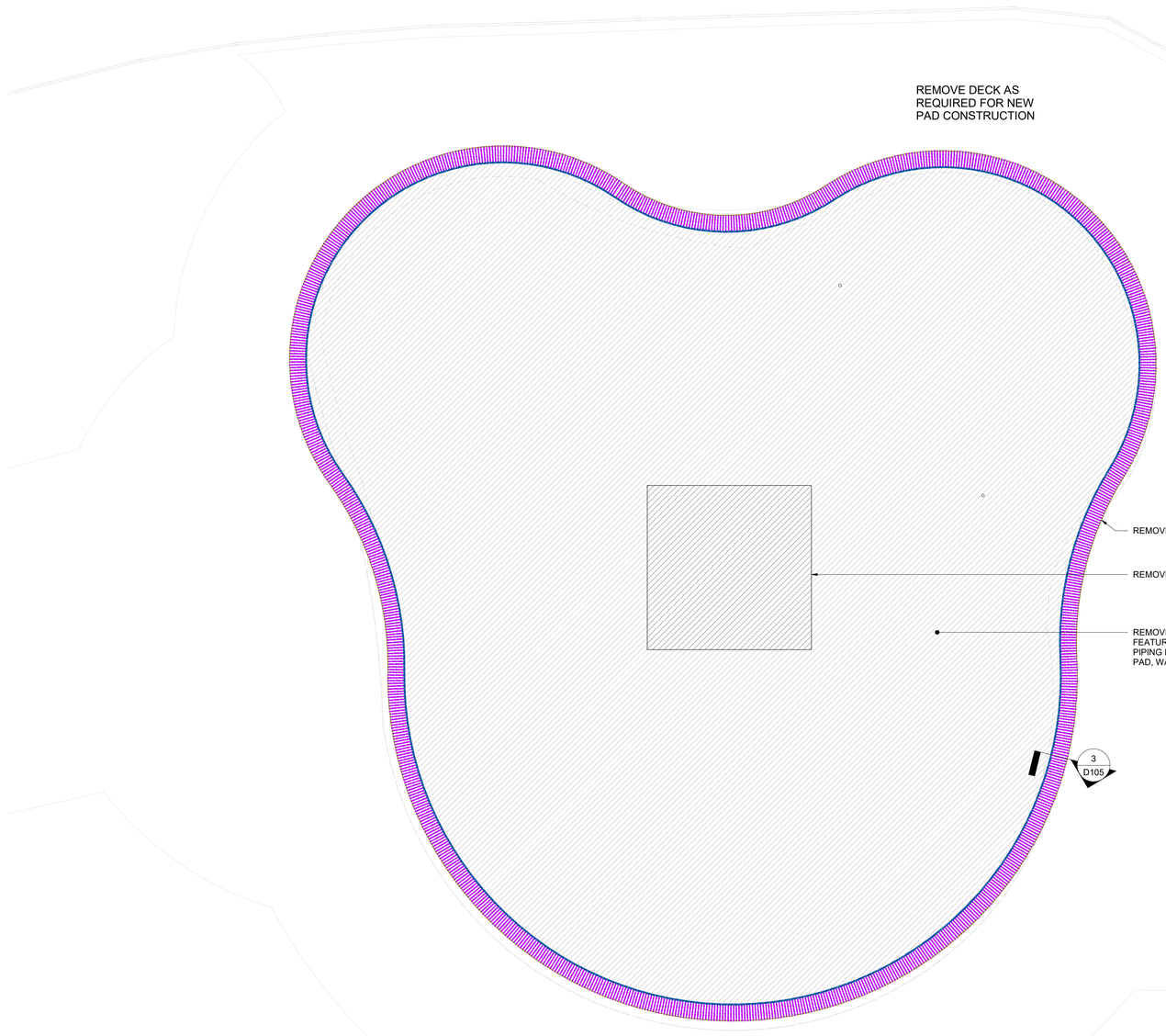
Project Number:	19285
Approved By:	Approver
Checked By:	Checker
Drawn By:	Author

Sheet Title:

EXISTING LEISURE POOL DEMOLITION DETAILS

SHEET NUMBER:

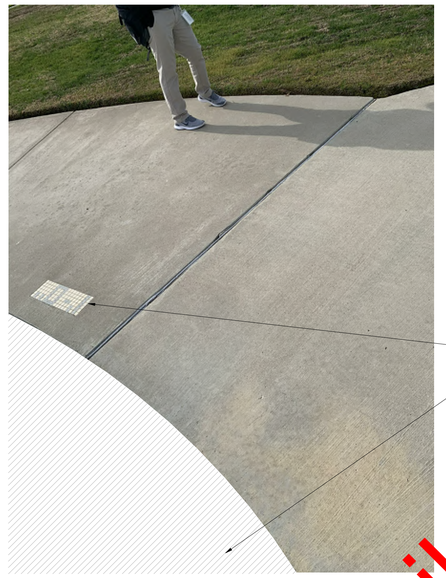
D104



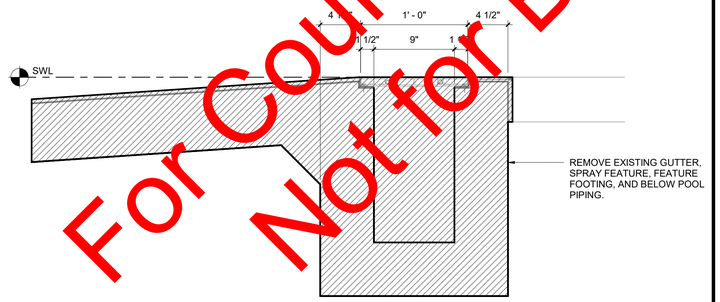
4 | D105 POOL D - EXISTING SPRAY PAD DEMOLITION PLAN VIEW
1/4" = 1'-0"



1 | D105 EXISTING CONDITION DETAIL VIEW
NOT TO SCALE



2 | D105 EXSITING CONDITION DETAIL VIEW
NOT TO SCALE



3 | D105 EXISTING SPRAY PAD GUTTER DETAIL VIEW
1 1/2" = 1'-0"

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REGISTERED ARCHITECT C-20536 Jeffrey R. Katz 8/30/2023 Renewal Date STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

DEMOLITION OF EXISTING SPRAY PAD PLAN WITH STRUCTURE

SHEET NUMBER:

D105

For Council Approval
Not for Bidding



REMOVE FILTRATION PUMP, STRAINER, AND ASSOCIATED PIPING.

8 D400 | POOL D - EXISTING CONDITION 1
DETAIL VIEW
NOT TO SCALE



REMOVE ALL CHEMICAL STORAGE CONTAINERS, CHEMICAL FEED PUMPS, VALVES, AND ASSOCIATED PIPING.

COVER FLOOR DRAINS TO PREVENT DAMAGE OR FOREIGN MATERIAL OBSTRUCTIONS DURING DEMOLITION.

9 D400 | POOL D - EXISTING CONDITION 4
DETAIL VIEW
NOT TO SCALE



REMOVE FILTER, VALVES, AND ASSOCIATED PIPING.

6 D400 | POOL D - EXISTING CONDITION 3
DETAIL VIEW
NOT TO SCALE



REMOVE FEATURE PUMP, STRAINER, AND ASSOCIATED PIPING.

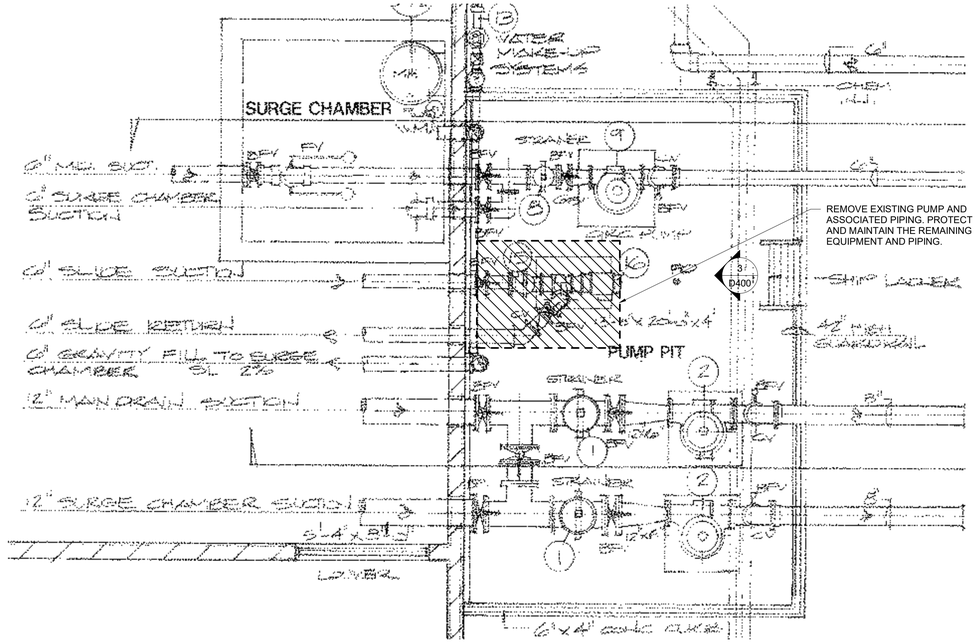
4 D400 | POOL D - EXISTING CONDITION 2
DETAIL VIEW
NOT TO SCALE



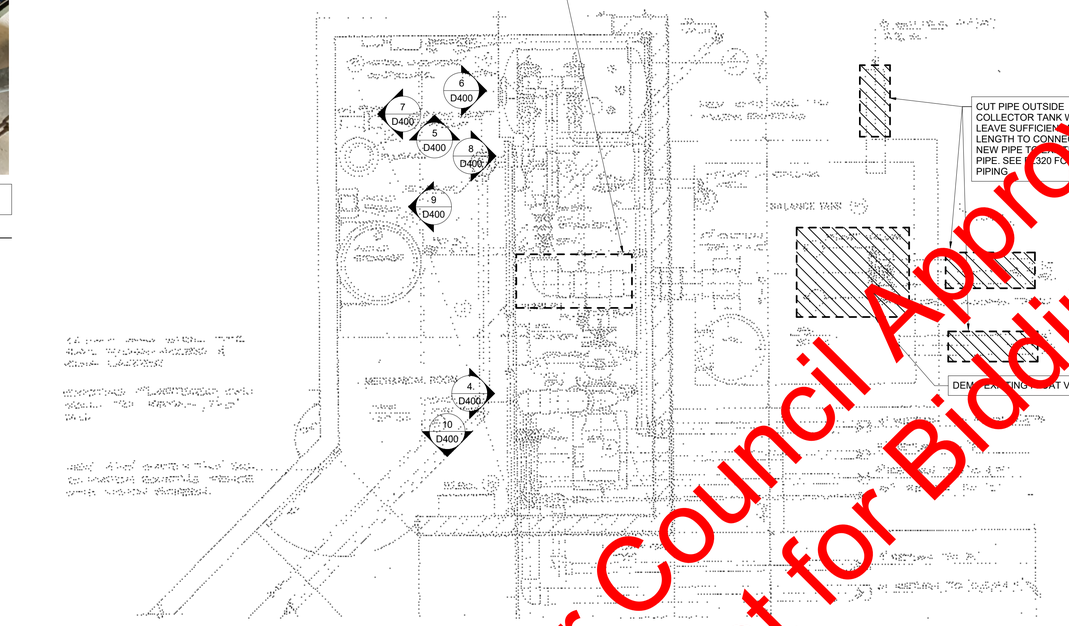
REMOVE SLIDE PUMP AND ASSOCIATED PIPING.

PROTECT AND MAINTAIN EXISTING FLOOR DRAIN AND ALL OTHER EQUIPMENT/PIPING.

3 D400 | POOL C - EXISTING CONDITION
DETAIL VIEW
NOT TO SCALE



1 D400 | POOL C - EXISTING MECHANICAL ROOM
PLAN VIEW
NOT TO SCALE



2 D400 | POOL D - EXISTING MECHANICAL ROOM
PLAN VIEW
NOT TO SCALE



REMOVE AND SALVAGE MOTOR STARTERS.

10 D400 | POOL D - EXISTING CONDITION 5
DETAIL VIEW
NOT TO SCALE



REMOVE AND SALVAGE MOTOR STARTERS.

7 D400 | POOL D - EXISTING CONDITION 6
DETAIL VIEW
NOT TO SCALE



REMOVE CHEMICAL CONTROLLER, CHEMICAL SENSOR MANIFOLD, AND ASSOCIATED TUBING AND WIRING.

5 D400 | POOL D - EXISTING CONDITION 7
DETAIL VIEW
NOT TO SCALE

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CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

LICENSED ARCHITECT
JEFFREY R. KATZ
C-26538
Professional Design
4/30/2023
STATE OF CALIFORNIA

5/20/2021

For Council Approval
Not for Bidding

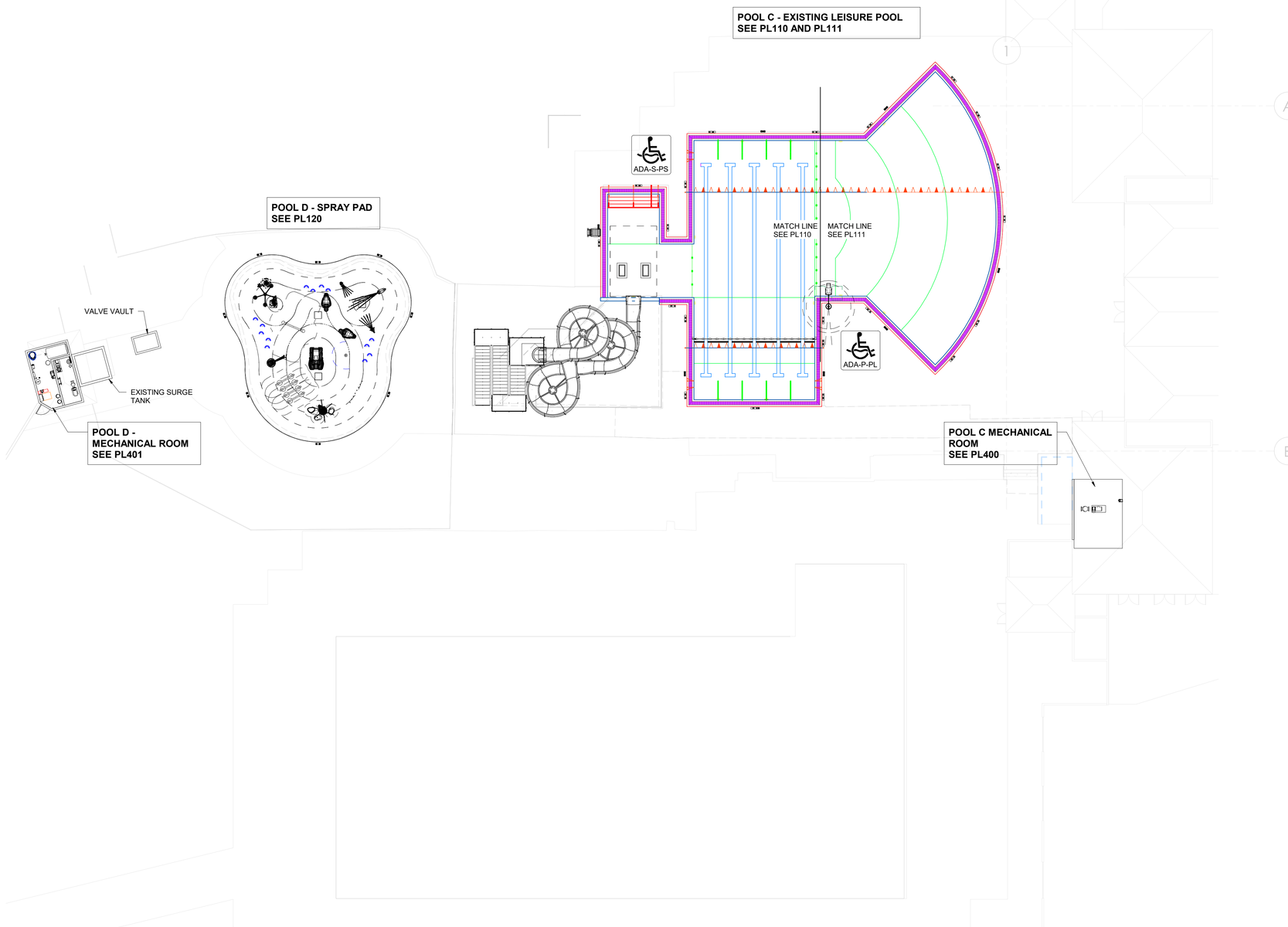
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

MECHANICAL DEMOLITION PLAN

SHEET NUMBER:

D400



1 PL100 OVERALL AQUATICS PLAN VIEW
1/16" = 1'-0"

GENERAL NOTES:

1. LOCATE LIFEGUARD CHAIRS AS REQUIRED PER STATE AND LOCAL CODES AND PER OWNER'S SAFETY CONSULTANT.
2. SCHEDULE QUANTITIES ARE SHOWN FOR VALUE ENGINEERING PURPOSES. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO VERIFY QUANTITIES REQUIRED.
3. CONTRACTOR SHALL CONTACT ENGINEER FOR ELECTRONIC DRAWING FILES PRIOR TO COMMENCING POOL STAKING WORK.
4. ENGINEER WILL PROVIDE ELECTRONIC PLAN VIEW OF ALL POOLS IN AUTOCAD DRAWING FORMAT FOR CONTRACTOR'S USE TO LOCATE STRUCTURES AND RELATED POOL DECK EQUIPMENT.
5. REFER TO PL100 SERIES DRAWINGS FOR ALL POOL PLAN INFORMATION, RELATED EQUIPMENT, AND DETAILS.
6. REFER TO PL200 SERIES DRAWINGS FOR ALL POOL STRUCTURAL PLANS, RELATED INFORMATION, AND DETAILS.
7. REFER TO PL300 SERIES DRAWINGS FOR ALL POOL AND DRAIN PIPING AND RELATED INFORMATION AND DETAILS.
8. REFER TO PL400 SERIES DRAWINGS FOR ALL MECHANICAL EQUIPMENT INFORMATION AND RELATED DETAILS.
9. REFER TO PL500 SERIES DRAWINGS FOR ELECTRICAL SCHEMATICS AND P&IDs.
10. POOL CONTRACTOR IS RESPONSIBLE FOR ALL WORK NOT IN SLIDE VENDOR'S CONTRACT.

CODES, STANDARDS AND REGULATIONS:
CONTRACTOR SHALL BE FAMILIAR WITH ALL CODES AND STANDARDS LISTED BELOW AND ALERT THE ARCHITECT/ENGINEER TO CONFLICTS IN THE DRAWINGS

CODE JURISDICTION
ROSEVILLE, CA, PLACER COUNTY

HEALTH & SAFETY CODE:
CALIFORNIA ASSOCIATION OF ENVIRONMENTAL HEALTH ADMINISTRATORS 2018

ACCESSIBILITY STANDARDS AND REGULATIONS:

UNITED STATES:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

BATHER CAPACITY

BATHER CAPACITY IS CALCULATED IN ACCORDANCE WITH SECTION 3120B.2.2 OF THE CALIFORNIA ASSOCIATION OF ENVIRONMENTAL HEALTH ADMINISTRATORS JULY 1, 2018 CODE AS FOLLOWS:

1. POOL C:
   a. 6,228 (SF) WATER / 20(SF/BATHER) = 311 BATHERS.
2. POOL D:
   a. 2240 (SF) SPRAY PAD / 20 (SF/BATHER) = 112 BATHERS.

SCHEDULE - SHEET LIST

SHEET NO.	SHEET NAME
D100	OVERALL EXISTING POOLS
D101	EXISTING LEISURE POOL DEMOLITION PLAN
D102	EXISTING LEISURE POOL DEMOLITION PLAN
D103	EXISTING LEISURE POOL DEMOLITION DETAILS
D104	EXISTING LEISURE POOL DEMOLITION DETAILS
D105	DEMOLITION OF EXISTING SPRAY PAD PLAN WITH STRUCTURE
D400	MECHANICAL DEMOLITION PLAN
PL100	OVERALL AQUATIC PLAN
PL101	GENERAL DETAILS AND SCHEDULES
PL110	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN
PL111	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN
PL112	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL113	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL114	POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS
PL120	POOL D - SPRAY PAD PLANS, SCHEDULE, AND DETAILS
PL121	POOL D - SPRAY PAD DIMENSION PLAN AND SECTION
PL122	POOL D - SPRAY PAD SURFACE PLAN
PL123	POOL D - SPRAY PAD DETAILS
PL124	POOL D - SPRAY PAD DETAILS
PL125	POOL D - SPRAY PAD DETAILS
PL126	POOL D - SPRAY PAD DETAILS
PL127	POOL D - SPRAY PAD DETAILS
PL200	STRUCTURAL NOTES, PLAN(S) AND SCHEDULE
PL201	STRUCTURAL DETAILS
PL300	OVERALL PIPING PLAN
PL301	GENERAL PIPING DETAILS
PL310	POOL C - PIPING PLAN
PL311	POOL C - PIPING PLAN
PL312	3D - PIPING VIEWS
PL320	POOL D - SPLASH PAD GRAVITY PIPING PLAN
PL321	POOL D - SPLASH PAD ACTIVITY PIPING PLAN
PL400	POOL C - MECHANICAL EQUIPMENT PLAN
PL401	POOL D - MECHANICAL EQUIPMENT PLAN
PL402	MECHANICAL DETAILS
PL403	MECHANICAL DETAILS
PL404	MECHANICAL DETAILS
PL405	MECHANICAL DETAILS
PL500	POOL D - MECHANICAL SCHEMATIC
PL510	POOL D - ELECTRICAL SCHEMATIC

NOTE:
1. SLIDE CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT AND OFFERED BY SLIDE SUPPLIER, INCLUDING STRUCTURAL FOOTINGS.

2. POOL CONTRACTOR IS RESPONSIBLE FOR REMAINING SCOPE OF RENOVATION, INCLUDING SLIDE PUMP AND PIPING. PIPING SHALL BE PROVIDED AND INSTALLED UP TO THE SLIDE START TUB. POOL CONTRACTOR IS RESPONSIBLE FOR POOL WALL REPLACEMENT AND FINISH APPLICATION REQUIRED TO MOUNT THE NEW SLIDE FLUME EXIT.

For Council Approval
Not for Bidding

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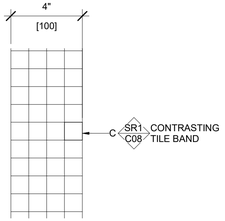
Project Number: 19285
Approved By: JRB
Checked By: JRB
Drawn By: JVH

Sheet Title:

OVERALL AQUATIC PLAN

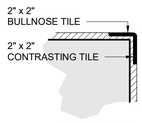
SHEET NUMBER:

PL100



NOTES:
1. 4" CONTRASTING TILE BAND @ 4'-6" WD CONTINUOUS ON POOL FLOOR AND WALLS; COLOR CONTRASTING TO POOL FINISH.

2 | PL101 CONTRASTING TILE BAND DETAIL VIEW
3" = 1'-0"



NOSING TYPE C

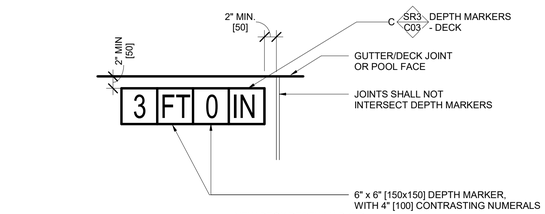
NOTES:

1. NOSING TYPE C: 2" MIN. CONTRASTING TILE BAND REQUIRED ON TREAD NOSING AND TOP OF RISER UNLESS OTHERWISE NOTED.

FINISH NOTES:
1. FINISHES PER SCHEDULE UNLESS OTHERWISE INDICATED.
2. VERTICAL SURFACE (WET) AND HORIZONTAL SURFACE (WET) SHALL BE AT LEAST 6.5 ON THE MUNSELL COLOR VALUE SCALE.
3. ALL HORIZONTAL SURFACES MUST BE SLIP RESISTANT AND COMPLY WITH THE ANSI A137.1 STANDARD USING THE DCOF ACUTEST METHODOLOGY:
3A. ON WET LEVEL SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.42.
3B. ON WET SLOPED SURFACES, PROVIDE DYNAMIC COEFFICIENT OF FRICTION OF =/> 0.65.
4. DESIGN WATERLINE SHALL HAVE A MAXIMUM CONSTRUCTION TOLERANCE WHEN FINISHED OF +/- 1/4" FOR POOLS AND SPAS WITH ADJUSTABLE SURFACE SKIMMING, AND +/- 1/8" FOR POOLS AND SPAS WITH NONADJUSTABLE SURFACE SKIMMING.

SCHEDULE - SAFETY & MAINTENANCE EQUIPMENT

QTY	PRODUCT NAME	MANUFACTURER	NOTES
1	25 PERSON AQUATIC FIRST AID KIT	WATER SAFETY PRODUCTS	25 PERSON OSHA FIRST AID KIT TO INCLUDE BIOHAZARD COMPLIANCE RESPONSE AND CPR MICROMASK WITH NITRILE GLOVES (OWNER PROVIDED)
1	AUTOMATIC VACUUM CLEANING SYSTEM	AQUAPRODUCTS ULTRAMAX GEMINI	AUTOMATIC CLEANER, RADIO REMOTE CONTROL, ULTRAKART CADDY, DIGITAL TIMER DISPLAY, 120 FT CORD (OWNER PROVIDED)
4	LIFE BUOY	WATER SAFETY PRODUCTS	30" DIA, MADE OF UNICELL SOFT FOAM WITH HARD SHELL COVERING. (OWNER PROVIDED)
2	LIFE HOOK & RESCUE POLE	WATER SAFETY PRODUCTS	ANODIZED ALUMINUM POLE, WITH DOUBLE LIFE HOOK. 2 - 8 FEET SECTIONS WITH CONNECTOR & RUBBER END CAP. (OWNER PROVIDED)
1	MANUAL VACUUM CLEANING SYSTEM	WILDCAT E.1	SELF CONTAINED, PORTABLE SWIMMING POOL VACUUM SYSTEM. PROVIDE WITH LARGE MARINE BATTERY BOX, STANDARD DEBRIS BAG, SUPERFINE DEBRIS BAG (HH1508) MK POWER DEEP CYCLE, VLRA MARINE GEL BATTERY, SERIES SIZE 27. PROVIDE NOCO G7200 BATTERY CHARGER (HH1900) (OWNER PROVIDED)
8	RESCUE TUBE	WATER SAFETY PRODUCTS	50" LONG x 6" WIDE x 4" THICK. NO CLIPS, NO RINGS. 2" WIDE ADJUSTABLE SHOULDER STRAP , CONNECTED TO TUBE BY 1" STRAPPING. STRAPPING EXTENDS COMPLETELY THROUGH LENGTH OF TUBE. (OWNER PROVIDED)
2	SPINEBOARD W/ HEAD IMMOBILIZER	WATER SAFETY PRODUCTS	X-RAY TRANSLUCENT BACKBOARD WITH HEAD IMMOBILIZER AND BODY STRAPS. (OWNER PROVIDED)
4	THROW LINE	WATER SAFETY PRODUCTS	60' MARINE POLYPRO LINE, WITH 3" x 5" LEMON FLOAT. (OWNER PROVIDED)
1	WATER TEST KIT	TAYLOR "SERVICE COMPLETE"	FAS DPD CHLORINE KIT. (OWNER PROVIDED)



NOTES:
1. - WALL DEPTH MARKER AT LOCATIONS AS INDICATED ON PLAN BY THIS SYMBOL.
2. EXCLUDE "NO DIVING" MARKER TILES AT POOL WALL DEPTH MARKER LOCATIONS AND AT POOL DEPTHS GREATER THAN 5'-0".
3. DEPTH MARKERS SHALL BE LEGIBLE FROM INSIDE THE POOL AND FROM THE POOL DECK.
4. THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING MARKINGS ACCURATE TO WITHIN ONE INCH OF THE CONSTRUCTED WATER DEPTHS AT LOCATIONS INDICATED ON PLAN AT A MAX. 25'-0" SPACING AND IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
5. DEPTH MARKER TEXT SHALL INDICATE THE ACTUAL POOL DEPTH WITHIN 3" AT NORMAL OPERATING WATER LEVEL WHEN MEASURED 3'-0" FROM POOL WALL. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING PROPER TEXT FOR EACH MARKER LOCATION.
6. MARKINGS SHALL BE INSTALLED FLUSH WITH SURROUNDING SURFACES AND RECESSED IF NECESSARY.
7. ALL MARKINGS INSTALLED ON HORIZONTAL SURFACES SHALL HAVE A SLIP RESISTANT FINISH.
8. WHERE EXISTING "NO DIVING" TILES ARE REPLACE WITH NO DIVING SYMBOL, FILL REMAINING RECESS WITH TILES INDICATED.

1 | PL101 DEPTH MARKER DECK & WALL DETAIL VIEW
NONE

TAG LEGEND

PIPE TAG: P1-20A — LINE TYPE IDENTIFIER, SYSTEM IDENTIFIER, PIPE IDENTIFIER, POOL IDENTIFIER

POOL EQUIPMENT TAG: A01 — POOL IDENTIFIER, EQUIPMENT IDENTIFIER

MECHANICAL EQUIPMENT TAG: P1A — EQUIPMENT IDENTIFIER, SYSTEM IDENTIFIER, POOL IDENTIFIER

DIMENSION TAG: 100 — POINT LOCATION, POINT IDENTIFIER

WATER FEATURE TAG: F01 — FEATURE DESIGNATOR, EQUIPMENT IDENTIFIER

ELEVATION TAG — ELEVATION; 100.00 REFERENCE; LOCATION

CUSTOM RAILGOODS TAG: A01 — POOL IDENTIFIER, RAILGOODS IDENTIFIER

POOL STRUCTURAL TAG: AH1 — POOL IDENTIFIER, WALL TYPE IDENTIFIER

POOL FIXTURE TAG: A-PF1 — POOL IDENTIFIER, POOL FIXTURE DESIGNATOR, EQUIPMENT IDENTIFIER

REVISION TAG: 1 — REVISION NUMBER

POOL FINISH TAG: A-QA, C01 — FINISH TYPE ID, POOL IDENTIFIER, FINISH COLOR ID, FINISH DESCRIPTION; WATERLINE TILE

DIMENSIONAL UNITS — IMPERIAL UNITS 7/8"; METRIC UNITS (mm) [25]

POOL ACCESSIBILITY TAG: ADA-P-SE — P = PRIMARY, S = SECONDARY, MEANS OF ACCESS

POOL FLOOR ELEVATION RELATIVE TO (SWL) — ELEVATION -5'-0" WD

EQUIPMENT IDENTIFIER KEY

AC	-	AIR COMPRESSOR	HX	-	HEAT EXCHANGER
AF	-	AUTOFILL	P	-	PUMP
AHJ	-	AUTHORITY HAVING JURISDICTION	PV	-	PNEUMATIC MAIN DRAIN VALVE
AOP	-	ADVANCED OXIDATION PROCESS	S	-	STRAINER
AP	-	pH CONTROL PUMP	SC	-	CONTAINMENT PALLETE
AS	-	pH CONTROL STORAGE	SV	-	SURGE TANK FAN
BP	-	BOOSTER PUMP	UV	-	ULTRA-VIOLET DISINFECTION
C	-	CHEMICAL CONTROLLER	V	-	VARIABLE FREQUENCY DRIVE
CP	-	CHLORINE FEED PUMP	WC	-	WATER CHILLER
CS	-	CHLORINE STORAGE			
EV	-	ELECTRONIC MAIN DRAIN VALVE			
F	-	FILTER			
FM	-	FLOW METER			
FP	-	FLOW METER POWER SUPPLY			
H	-	HEATER			

ABBREVIATIONS

BO	- BOTTOM OF	P&ID	- PIPING & INSTRUMENTATION DIAGRAM
CJ	- CONTROL JOINT	PL	- POOL LIFT
DIA	- DIAMETER	PS	- POOL STAIRS
EJ	- EXPANSION JOINT	SCH	- SCHEDULE
EW	- EACH WAY	SE	- SLOPED ENTRY
FFE	- FINISH FLOOR ELEVATION	SS	- STAINLESS STEEL
ID	- INSIDE DIAMETER	SWL	- STATIC WATER LEVEL
MAX	- MAXIMUM	TO	- TOP OF
MIN	- MINIMUM	TS	- TRANSFER SYSTEM
NC	- NORMALLY CLOSED	TUBC	- TRUE UNION CHECK VALVE
NO	- NORMALLY OPEN	TUBV	- TRUE UNION BALL VALVE
NPS	- NOMINAL PIPE SIZE	TW	- TRANSFER WALL
OC	- ON CENTER	TYP	- TYPICAL
OD	- OUTSIDE DIAMETER	WD	- WATER DEPTH
OWE	- OPERATING WATER ELEVATION		

LEGEND - FINISHES & COLOR CODES - POOL C - EXISTING LEISURE POOL WITH NEW SLIDE AND TOWER

AREA	FINISHES: FINISH ID	FINISHES: FINISH	COLORS: COLOR ID	COLORS: COLOR	NOTES
CONTRASTING TILE BAND	SR1	1"x1" SLIP RESISTANT TILE	C08	CONTRASTING TO POOL FINISH - AS SELECTED BY ARCHITECT	
DECK BAND	SR1	1"x1" SLIP RESISTANT TILE	C01	AS SELECTED BY ARCHITECT	
DEPTH MARKERS - DECK	SR3	6"x6" SLIP RESISTANT TILE	C03	BLACK ON WHITE	
DEPTH MARKERS - NO DIVING	SR3	6"x6" SLIP RESISTANT TILE	C04	BLACK AND RED ON WHITE	
DEPTH MARKERS - WALL	CT1	6"x6" CERAMIC TILE	C03	BLACK ON WHITE	
FINISHED CONCRETE	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	
HORIZONTAL SURFACE (DRY)	SR1	1"x1" SLIP RESISTANT TILE	C09	WHITE	
HORIZONTAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C09	WHITE	
LANE MARKERS - FLOOR	SR1	1"x1" SLIP RESISTANT TILE	C08	CONTRASTING TO POOL FINISH - AS SELECTED BY ARCHITECT	GALAXY BLUE OR BLACK
LANE MARKERS - WALL	SR1	1"x1" SLIP RESISTANT TILE	C08	CONTRASTING TO POOL FINISH - AS SELECTED BY ARCHITECT	GALAXY BLUE OR BLACK
TILE - DRY	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TILE - DRY	SR1	1"x1" SLIP RESISTANT TILE	C01	AS SELECTED BY ARCHITECT	
TILE - WATERLINE	KT1	1"x1" KEYSTONE TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - BULLNOSE	S862	1"x1" S-862 BULLNOSE TRIM TILE	C01	AS SELECTED BY ARCHITECT	
TRIM TILE - BULLNOSE	S886	2"x2" S-886 BULLNOSE TRIM TILE	C08	CONTRASTING TO POOL FINISH - AS SELECTED BY ARCHITECT	
TRIM TILE - HANDHOLD	C701	1"x1" C-701 HANDHOLD TRIM TILE	C01	AS SELECTED BY ARCHITECT	
VERTICAL SURFACE (WET)	QA	QUARTZ AGGREGATE	C09	WHITE	

LEGEND - FINISHES & COLOR CODES - NEW POOL D - SPRAY PAD

AREA	FINISHES: FINISH ID	FINISHES: FINISH	COLORS: COLOR ID	COLORS: COLOR	NOTES
DEPTH MARKERS - DECK	SR3	6"x6" SLIP RESISTANT TILE	C03	BLACK ON WHITE	
HORIZONTAL SURFACE (DRY)	LB	LIGHT BROOM	C01	AS SELECTED BY ARCHITECT	SEE PL122 FOR COLOR SELECTIONS
HORIZONTAL SURFACE (DRY)	SR1	1"x1" SLIP RESISTANT TILE	C09	WHITE	

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-22925 Renewal Date 08/31/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

GENERAL DETAILS AND SCHEDULES

SHEET NUMBER:

PL101

POOL C-SLIDE DATA		
DESCRIPTION	QTY	UNITS
POOL PERIMETER	441	FEET
WATER SURFACE AREA	6,228	SQUARE FEET
POOL VOLUME	129,200	GALLONS
REQUIRED SURGE CAPACITY VOLUME	6,228.0	GALLONS
SURGE IN PERIMETER GUTTER	4007.0	GAL
SURGE IN GUTTER PIPING	692	GAL
SURGE IN SURGE CHAMBER	2,636	GAL
TOTAL SUPPLIED	7,335	GAL
TURNOVER/VOLUME/FLOW	240 MIN.	129,200 GAL.

SCHEDULE - BASIS OF DESIGN - POOL C

POOL ID	EQUIPMENT ID	EQUIPMENT	QTY	MANUFACTURER	DESCRIPTION
C	01	CUP ANCHOR	2	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	4" SQUARE 304L SS ANCHOR AND 304L SS EYE BOLT
C	02	SAFETY ROPE	1	PARAGON AQUATICS	3/4" POLYETHYLENE ROPE WITH 5"x9" HANDI-LOCK FLOAT, VERIFY LENGTH WITH PLANS
C	03	POOL LIFT	1	S.R. SMITH OR EQUAL	SPLASH! EXTENDED REACH POOL LIFT WITH 300LB LIFTING CAPACITY. MUST MEET ALL APPLICABLE ADA REQUIREMENTS. PACKAGE TO INCLUDE ARMRESTS, ANCHOR, LIFT COVER, BATTERY CHARGER, EXTRA BATTERY, CADDY AND SPINE BOARD
C	04	LIFEGUARD CHAIR			OWNER PROVIDED
C	05	HANDRAIL	4	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CUSTOM FABRICATED, 316L SS 1.50" OD X .120 WALL THICKNESS, 500 GRIT FINISH MIN
C	06	WEDGE ANCHOR	12	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	CAST BRONZE, 4-1/4" LONG, ACCEPTS 1.500" OD TUBING
C	07	ESCUTCHEON PLATE	12	PARAGON AQUATICS, SPECTRUM AQUATICS, SR SMITH OR EQUAL	STAINLESS STEEL ROUND ESCUTCHEON FOR 1.50" OD RAILS

SLIDE INFORMATION:

SLIDE TYPE: 42" OPEN FLUME BODY SLIDE
SLIDE LENGTH: 168.66'
SLIDE HEIGHT: 25.08'
SLIDE FLOW: 1000 GPM

TOWER INFORMATION:

TOWER HEIGHT: 35.66'

TOWER MATERIAL: PAINTED HOT DIP GLAVANIZED STEEL TOWER INCLUDING UPPER PLATFORM, LANDING, COLUMNS, STAIRWAYS, GUARDRAILS, HANDRAILS, AND GATE DESIGNED FOR BOLT-UP INSTALLATION.

RAILING INFORMATION:

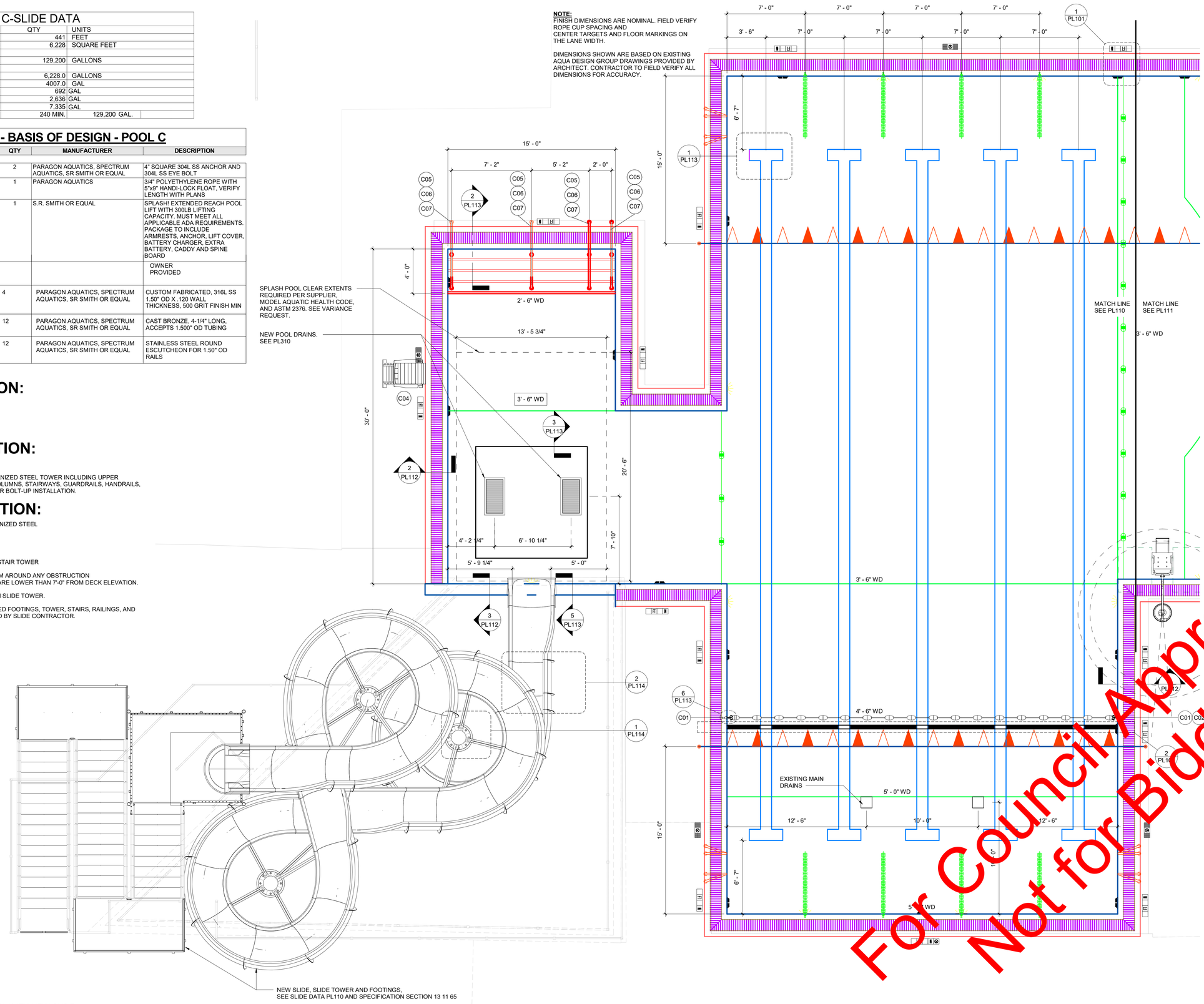
RAILING TYPE: PAINTED HOT DIPPED GALVANIZED STEEL

NOTES:

1. INCLUDE A LOCKING GATE AT ENTRY TO STAIR TOWER
2. PROVIDE DECK MOUNTED RALING SYSTEM AROUND ANY OBSTRUCTION FROM SLIDE OR SUPPORT SYSTEM WHICH ARE LOWER THAN 7'-0" FROM DECK ELEVATION.
3. PROVIDE SHADE CANOPY INTEGRAL WITH SLIDE TOWER.
4. SLIDE FLUME, SUPPORTS AND ASSOCIATED FOOTINGS, TOWER, STAIRS, RAILINGS, AND SHADE CANOPY FURNISHED AND INSTALLED BY SLIDE CONTRACTOR.

NOTE:
FINISH DIMENSIONS ARE NOMINAL. FIELD VERIFY ROPE CUP SPACING AND CENTER TARGETS AND FLOOR MARKINGS ON THE LANE WIDTH.

DIMENSIONS SHOWN ARE BASED ON EXISTING AQUA DESIGN GROUP DRAWINGS PROVIDED BY ARCHITECT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS FOR ACCURACY.



1 PL110 POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN VIEW
1/4" = 1'-0"

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PROJECT:

CITY OF ROSEVILLE

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3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

LICENSED ARCHITECT Jeffrey Katz C-20535 Exp. 08/31/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

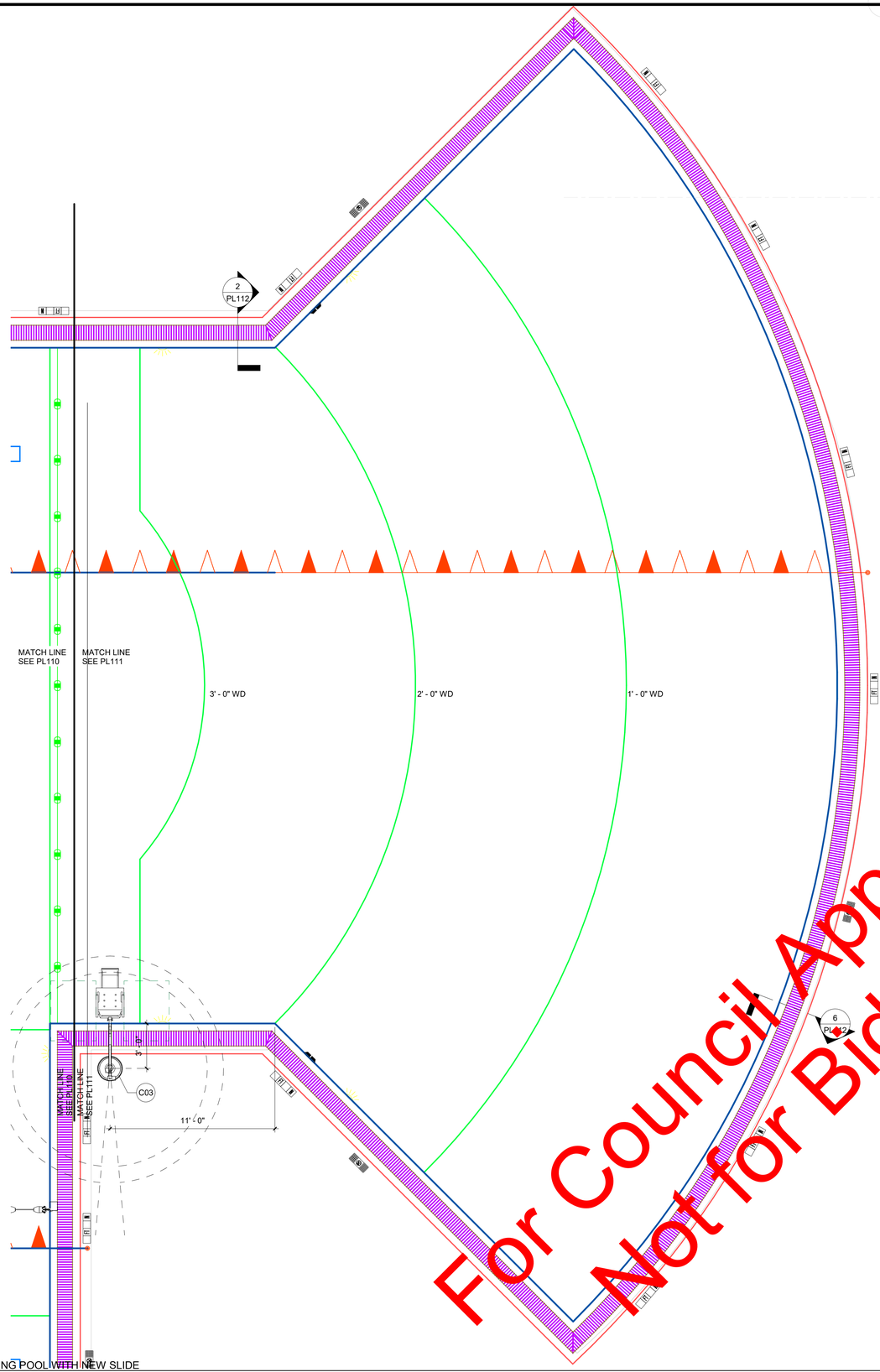
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POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN

SHEET NUMBER:

PL110

For Council Approval
Not for Bidding



1 POOL C - EXISTING POOL WITH NEW SLIDE PLAN VIEW
PL111 1/4" = 1'-0"

For Council Approval
Not for Bidding

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CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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REGISTERED ARCHITECT JEFFREY KATZ C-20538 4/30/2023 RENEWAL DATE STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

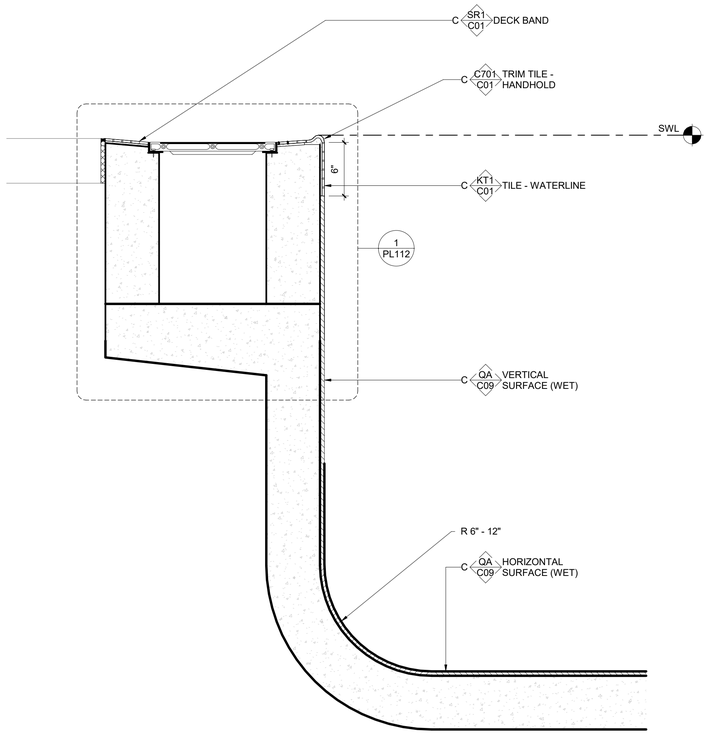
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POOL C - EXISTING LEISURE POOL WITH NEW SLIDE PLAN

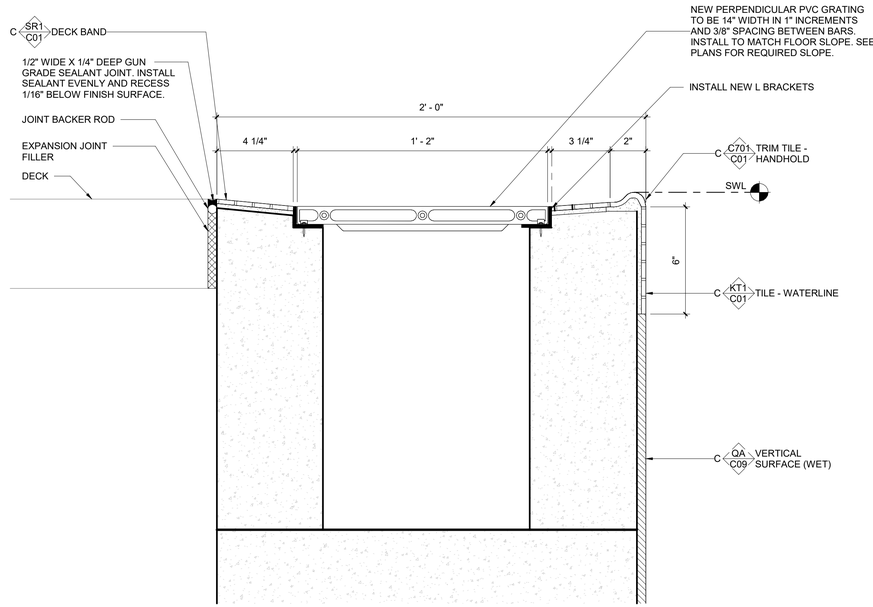
SHEET NUMBER:

PL111

NOTE:
DIMENSIONS SHOWN ARE BASED ON EXISTING AQUA DESIGN GROUP DRAWINGS PROVIDED BY ARCHITECT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS FOR ACCURACY.

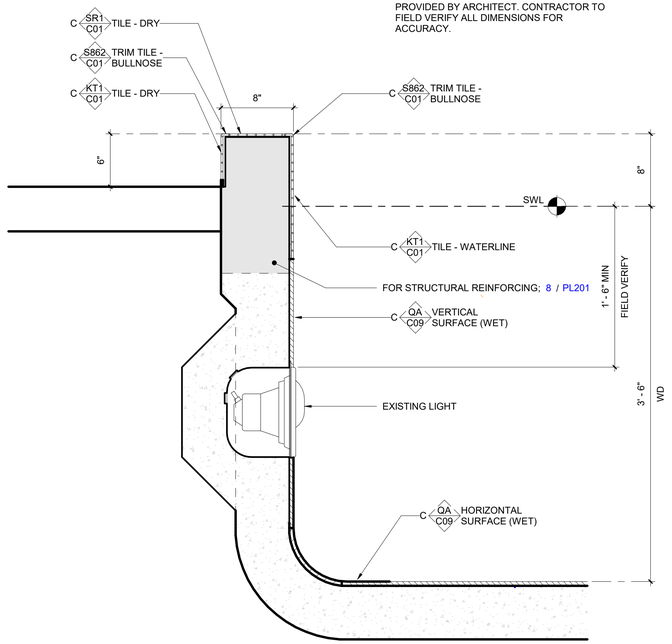


2 PL112 EXISTING GUTTER WALL - NEW FINISH DETAIL VIEW
1 1/2" = 1'-0"

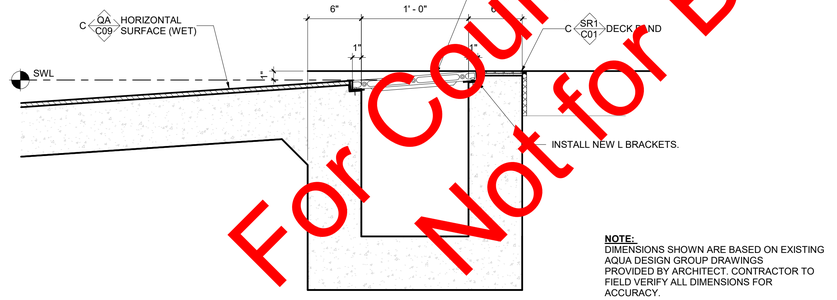


1 PL112 EXISTING GUTTER - NEW FINISH DETAIL VIEW
3" = 1'-0"

NOTE:
DIMENSIONS SHOWN ARE BASED ON EXISTING AQUA DESIGN GROUP DRAWINGS PROVIDED BY ARCHITECT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS FOR ACCURACY.



3 PL112 POOL WALL - AT SLIDE WALL DETAIL VIEW
1 1/2" = 1'-0"



NOTE:
DIMENSIONS SHOWN ARE BASED ON EXISTING AQUA DESIGN GROUP DRAWINGS PROVIDED BY ARCHITECT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS FOR ACCURACY.

6 PL112 ZERO DEPTH ENTRY DETAIL DETAIL VIEW
1 1/2" = 1'-0"

For Council Approval
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3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT C-20538 4/30/2023 Renewal Date STATE OF CALIFORNIA

5/20/2021

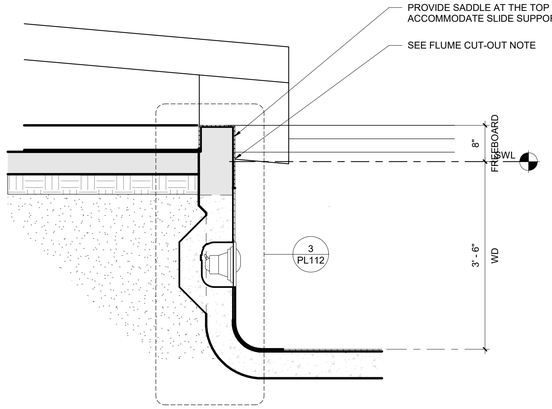
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS

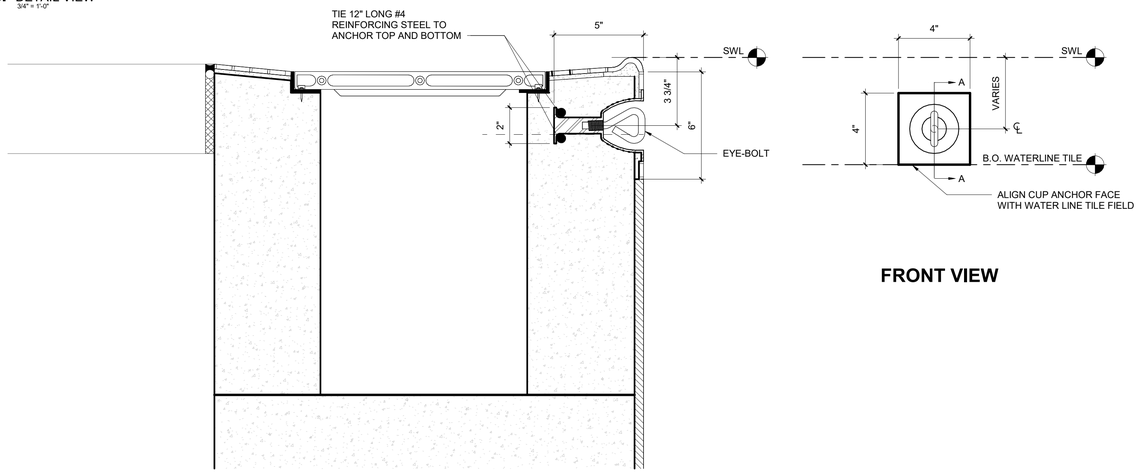
SHEET NUMBER:

PL112



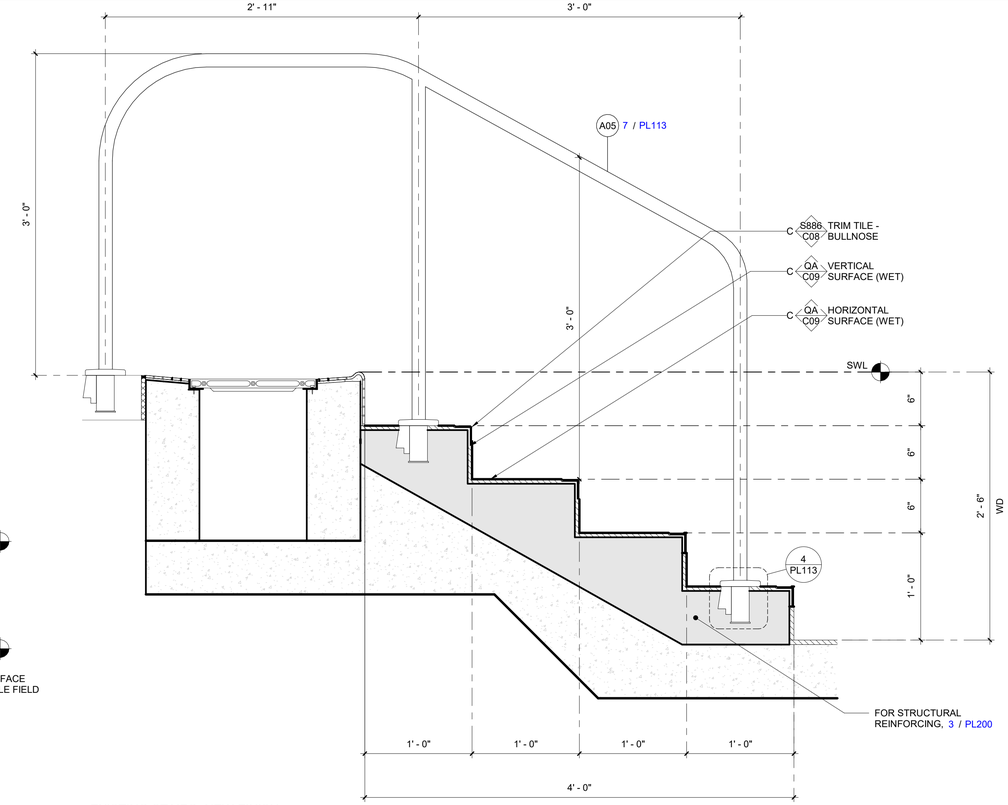
NOTES:
1. PATCH-IN WATERPROOFING OF ENTRY SECTION OF SLIDE OF SLIDE INTO PLUNGE AREA SHALL BE DONE PER SPECIFICATIONS AFTER INSTALLATION OF SLIDE.
2. VERIFY CUT-OUT AND DIMENSIONS WITH SLIDE MANUFACTURER.
3. SLIDE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
4. POOL CONCRETE CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS WITH SLIDE MANUFACTURER.
5. INSTALL COMPRESSIBLE WATERSTOP PER MANUFACTURER INSTALLATION BEFORE GROUTING ALONG CUTOUT PERIMETER.

5 PL113 | SLIDE ENTRY DETAIL VIEW
3/4" = 1'-0"

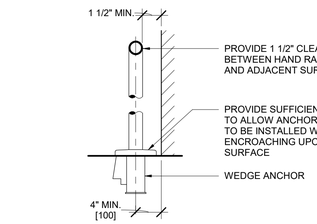


FRONT VIEW

SECTION A-A

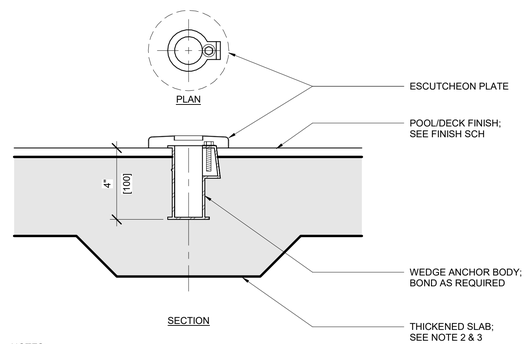


2 PL113 | EXISTING STAIRS- NEW FINISH DETAIL VIEW
1 1/2" = 1'-0"



NOTES:
1. CONTRACTOR TO PURCHASE AND INSTALL RAIL GOODS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS OF PARTIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY HANDRAIL DIMENSIONS PRIOR TO FABRICATION.

7 PL113 | RAILING OFFSET TO ADJACENT SURFACE DETAIL VIEW
3/4" = 1'-0"



NOTES:
1. INSTALL ANCHORS IN LINE WITH RAIL.
2. CONCRETE CLEAR COVER AT ANCHOR SHALL BE 3" MINIMUM. THICKEN SLAB IF NECESSARY TO ACHIEVE MIN COVER.
3. WHEN SECOND LAYER OF CONCRETE IS LOCATED DIRECTLY BELOW SLAB IN WHICH ANCHOR IS PLACED (I.E. STAIRS), CLEAR COVER OF CONCRETE AT ANCHOR IN UPPER SLAB SHALL BE 2" MIN.

4 PL113 | ANCHOR DETAIL - WEDGE DETAIL VIEW
3" = 1'-0"

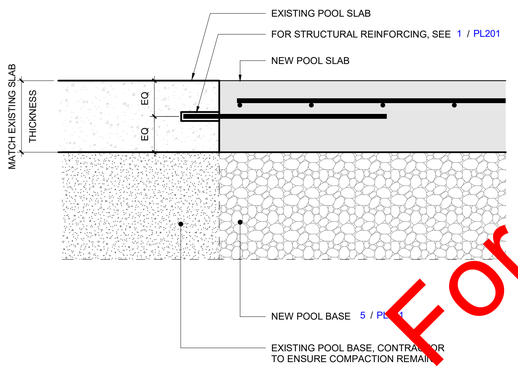
6 PL113 | ANCHOR DETAIL - ROPE CUP DETAIL VIEW
3" = 1'-0"

NOTE:
1. CONFIGURATION OF EXISTING CONSTRUCTION MAY VARY FROM WHAT IS SHOWN.

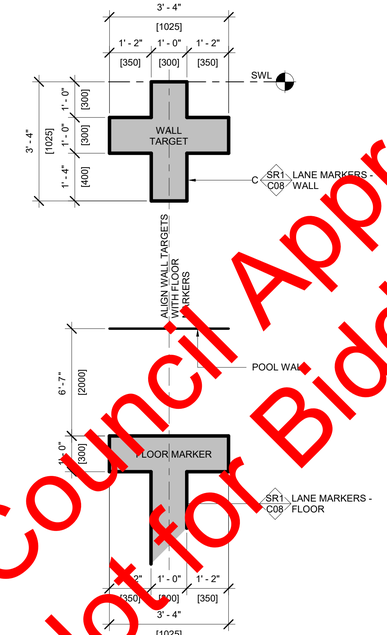
2. SCARIFY CONCRETE INTERFACE AND APPLY BONDING AGENT.

3. CONTRACTOR OPTION: SALVAGE EXISTING REINFORCEMENT AND LAP WITH NEW REINFORCEMENT (1'-8" MIN LAP)

4. NEW CONCRETE SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE AND SHALL BE WET CURED PER SPECIFICATIONS.



3 PL113 | EXISTING TO NEW POOL FLOOR TRANSITION DETAIL VIEW
1 1/2" = 1'-0"



NOTES:
1. TILES SHALL BE INSTALLED SO THAT FINISHED FACE OF TILE IS FLUSH WITH FINISHED SURFACE OF POOL SURFACE
2. ALL TILES SHALL BE IN A CONTRASTING COLOR TO POOL FINISH, BOTH FLOOR AND WALL. CONFIRM TILE COLOR WITH OWNER/ARCHITECT

1 PL113 | FINISH DETAIL - FLOOR MARKER AND WALL TARGET - USA SWIMMING DETAIL VIEW
1/2" = 1'-0"

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-20555 Renewal Date 8/31/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS

SHEET NUMBER:

PL113

For Council Approval
Not for Bidding

SLIDE INFORMATION:

SLIDE TYPE: 42" OPEN FLUME BODY SLIDE
SLIDE LENGTH: 168.66'
SLIDE HEIGHT: 25.08'
SLIDE FLOW: 1000 GPM

TOWER INFORMATION:

TOWER HEIGHT: 35.66'

TOWER MATERIAL: PAINTED HOT DIP GLAVANIZED STEEL TOWER INCLUDING UPPER PLATFORM, LANDING, COLUMNS, STAIRWAYS, GUARDRAILS, HANDRAILS, AND GATE DESIGNED FOR BOLT-UP INSTALLATION.

RAILING INFORMATION:

RAILING TYPE: PAINTED HOT DIPPED GALVANIZED STEEL

NOTES:

1. INCLUDE A LOCKING GATE AT ENTRY TO STAIR TOWER

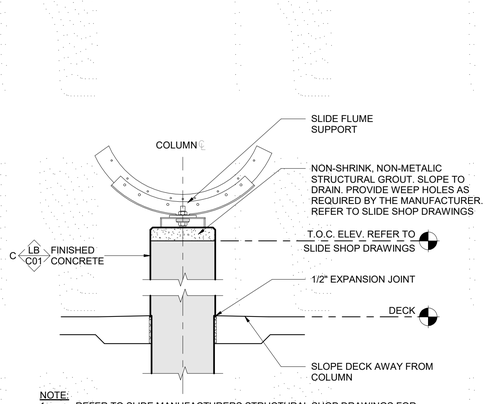
2. PROVIDE DECK MOUNTED RALING SYSTEM AROUND ANY OBSTRUCTION FROM SLIDE OR SUPPORT SYSTEM WHICH ARE LOWER THAN 7'-0" FROM DECK ELEVATION.

3. PROVIDE SHADE CANOPY INTEGRAL WITH SLIDE TOWER.

4. SLIDE FLUME, SUPPORTS AND ASSOCIATED FOOTINGS, TOWER, STAIRS, RAILINGS, AND SHADE CANOPY FURNISHED AND INSTALLED BY SLIDE CONTRACTOR.

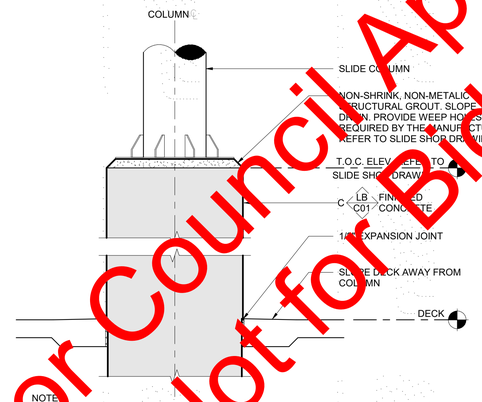


3 | PL114 3D - SLIDE



NOTE:
1. REFER TO SLIDE MANUFACTURERS STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL DESIGN OF SLIDE COLUMN AND FOUNDATIONS
2. CONTRACTOR TO COORDINATE WITH SLIDE MANUFACTURER
3. SLIDE FLUME SUPPORT BY SLIDE CONTRACTOR.

2 | PL114 SLIDE FLUME SUPPORT DETAIL VIEW
3/4" = 1'-0"



NOTE:
1. REFER TO SLIDE MANUFACTURERS STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL DESIGN OF SLIDE COLUMN AND FOUNDATIONS
2. CONTRACTOR TO COORDINATE WITH SLIDE MANUFACTURER
3. SLIDE COLUMN SUPPORT BY SLIDE CONTRACTOR

PL114 | SLIDE COLUMN SUPPORT DETAIL VIEW
3/4" = 1'-0"

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CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-20535 Expiration Date 8/30/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

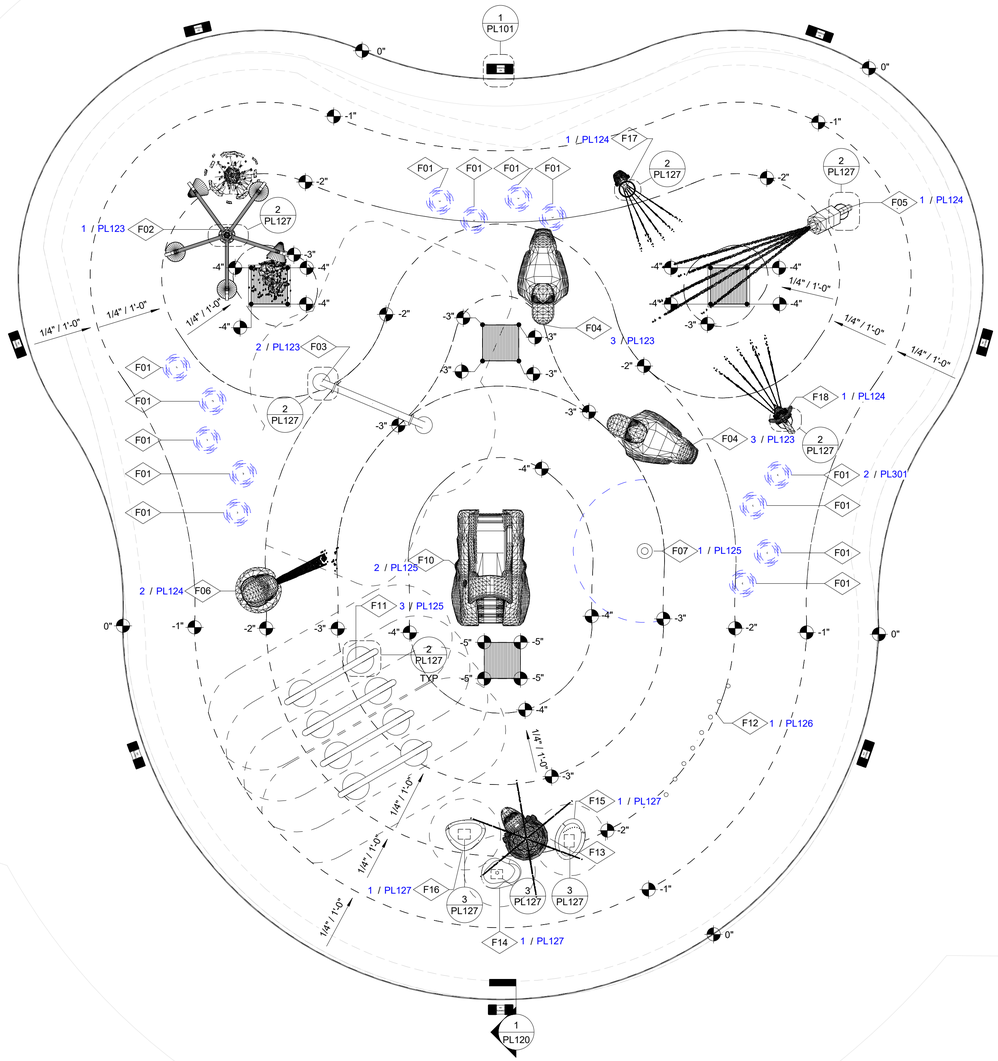
Sheet Title:

POOL C - EXISTING LEISURE POOL WITH NEW SLIDE DETAILS

SHEET NUMBER:

PL114

For Council Approval
Not for Bidding



2 PL120 POOL D - NEW SPRAY PAD PLAN VIEW
1/4" = 1'-0"

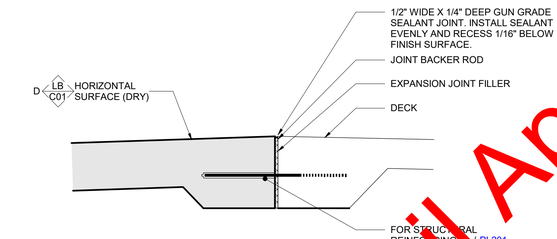
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POOL D-SPLASH PAD DATA

DESCRIPTION	QTY	UNITS
SPLASH PAD PERIMETER	177' 10"	FEET
WET SLAB SURFACE AREA	2,241	SQUARE FEET
WATER FEATURE STORAGE VOLUME	2,513	GALLONS
SURGE TANK OPERATING VOLUME	1,676	GALLONS
TOTAL VOLUME OF WATER	4,189	GALLONS
CIRCULATION RATE	220	GPM
TURNOVER/VOLUME/FLOW	19 MIN.	4,189 GAL. 220 GPM
FILTRATION RATE	12.74	GPM/FT²
BACKWASH RATE	260	GPM

SCHEDULE - WATER FEATURE - POOL D

POOL ID	FEATURE ID	FEATURE	QTY	MANUFACTURER	DESCRIPTION	GPM (ea)	GPM (Total)
D	F01	WATER GEYSER	13	CUSTOM	FIELD FABRICATED WATER GEYSER	15	195
D	F02	FILL N' SPILL	1	WATER ODYSSEY	W103 WATER ODYSSEY FIL N SPILL AQUATIC PLAY ACTIVITIY	15	15
D	F03	ROLL-A-RAIL	1	WATER ODYSSEY	W080 WATER ODYSSEY ROLL - A - RAIL SPRAY ACTIVITY	45	45
D	F04	DEION DUCK	2	WATER ODYSSEY	F2112 WATER ODYSSEY DEION DUCK AQUATIC PLAY FEATURE	13	26
D	F05	CATTAILS TOO	1	WATER ODYSSEY	W351-A WATER ODYSSEY STREAMS ON CATTAIL	9	9
D	F06	FELIPE FROG	1	WATER ODYSSEY	F3029 WATER ODYSSEY FELIPE FROG AQUATIC PLAY ACTIVITIES	13	13
D	F07	MUSHROOM MAZE	1	WATER ODYSSEY	W010 WATER ODYSSEY MUSHROOM MAZE AQUATIC PLAY ACTIVITIES	40	40
D	F10	HOLLOW LOG SLIDE	1	WATER ODYSSEY	F1130 WATER ODYSSEY HOLLOW LOG SLIDE	8	8
D	F11	WATER RINGS	4	WATER ODYSSEY	W238-1 WATER ODYSSEY WATER RINGS SPRAY FEATURE	10	40
D	F12	OVER N' UNDER	1	WATER ODYSSEY	W097-8 WATER ODYSSEY OVER N' UNDER GROUND SPRAY	24	24
D	F13	BILLY BOX TURTLE	1	WATER ODYSSEY	F3032 WATER ODYSSEY BILLY BOX TURTLE AQUATIC PLAY ACTIVITY	4	4
D	F14	SURF STONE #1	1	WATERPLAY	WATERPLAY SURF STONE 1 WATER SPRAY FEATURE	5	5
D	F15	SURF STONE #2	1	WATERPLAY	WATERPLAY SURF STONE 2 WATER SPRAY FEATURE	5	5
D	F16	SURF STONE #3	1	WATERPLAY	WATERPLAY SURF STONE 3 WATER SPRAY FEATURE	5	5
D	F17	GRASS BLADE WITH GRASSHOPPER	1	WATER ODYSSEY	W351-B - WATER ODYSSEY B - FUN FORM GRASSHOPPER	7.5	7.5
D	F18	GRASS BLADE WITH BEE	1	WATER ODYSSEY	W351-C WATER ODYSSEY C- FUN FOAM BEE	7.5	7.5



1 PL120 SPRAY PAD EDGE DETAIL VIEW
1" = 1'-0"

For Council Approval
Not for Bidding

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT C-20538 5/30/2023 Professional Design STATE OF CALIFORNIA

5/20/2021

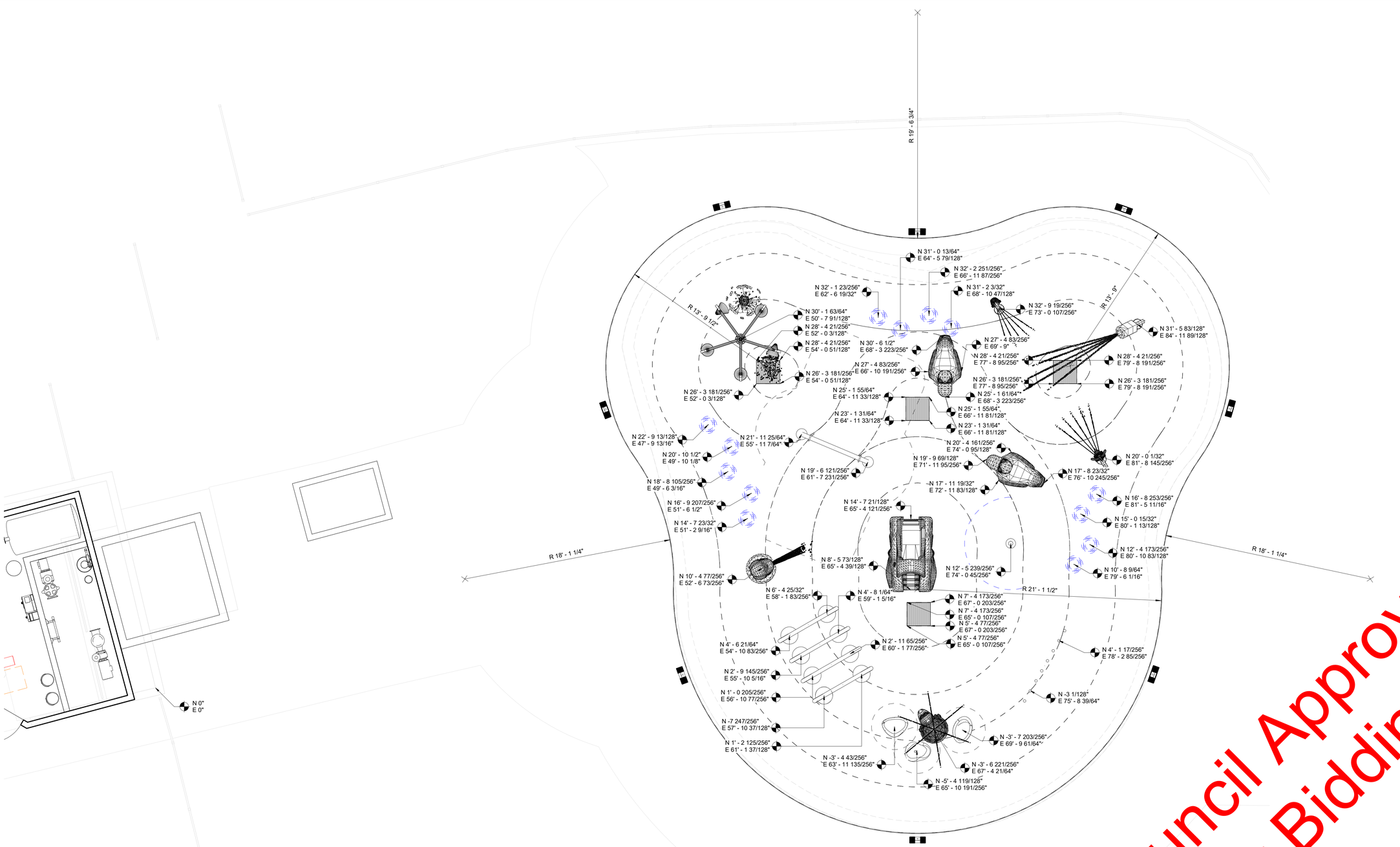
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

POOL D - SPRAY PAD PLANS, SCHEDULE, AND DETAILS

SHEET NUMBER:

PL120



1 | POL121 POOL D - NEW SPRAY PAD DIMENSION PLAN VIEW
1/4" = 1'-0"

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CITY OF ROSEVILLE CALIFORNIA

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REGISTERED ARCHITECT JOHN V. HARBER C-20538 4/30/2023 RENEWAL DATE STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

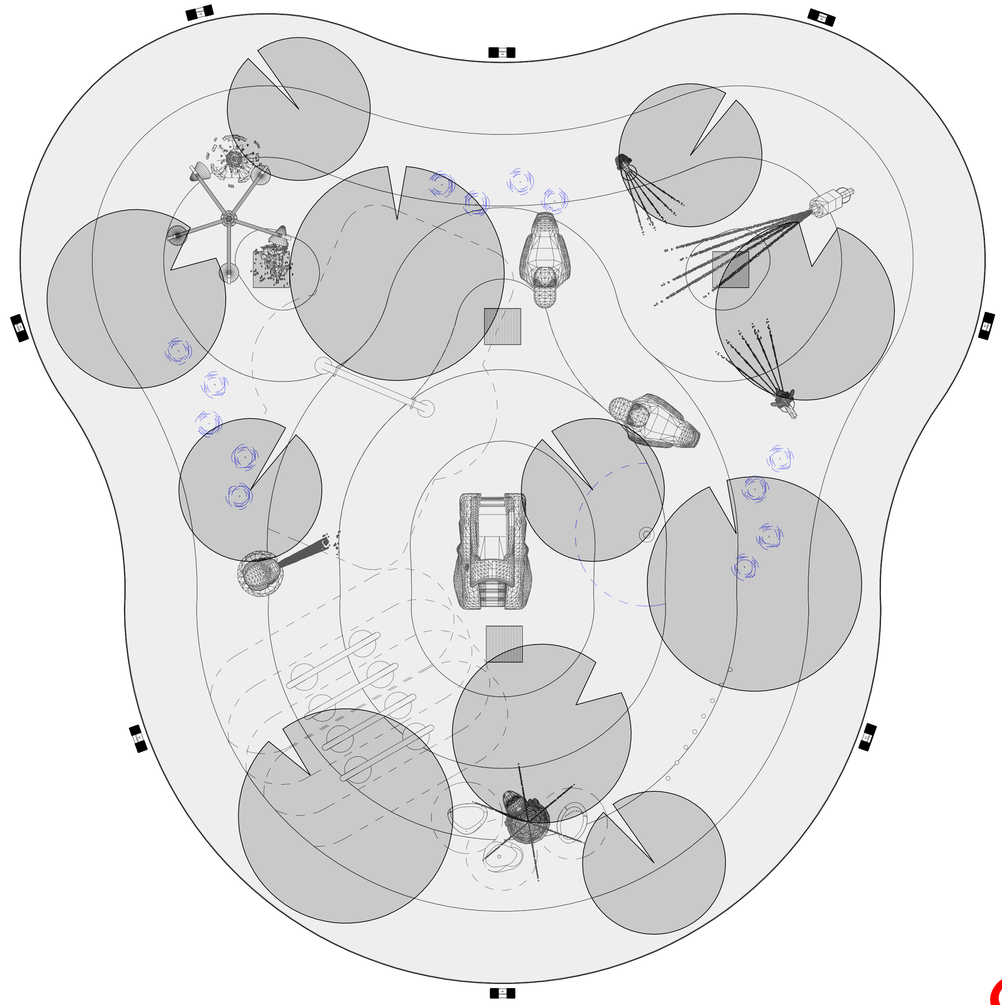
POOL D - SPRAY PAD DIMENSION PLAN AND SECTION

SHEET NUMBER:

PL121

COLOR KEY

- LILY PAD #1 (LITHOCHROME COLOR HARDENER - SCOFIELD A-65 LANDMARK GRAY)
- SPRAY PAD (LITHOCHROME COLOR HARDENER - SCOFIELD A-78 STONE GRAY)



1 PL122 POOL D - SPRAY PAD SURFACING PLAN VIEW
1/4" = 1'-0"

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REGISTERED ARCHITECT JEFFREY B. KATZ C-20538 4/30/2023 RENEWAL DATE STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

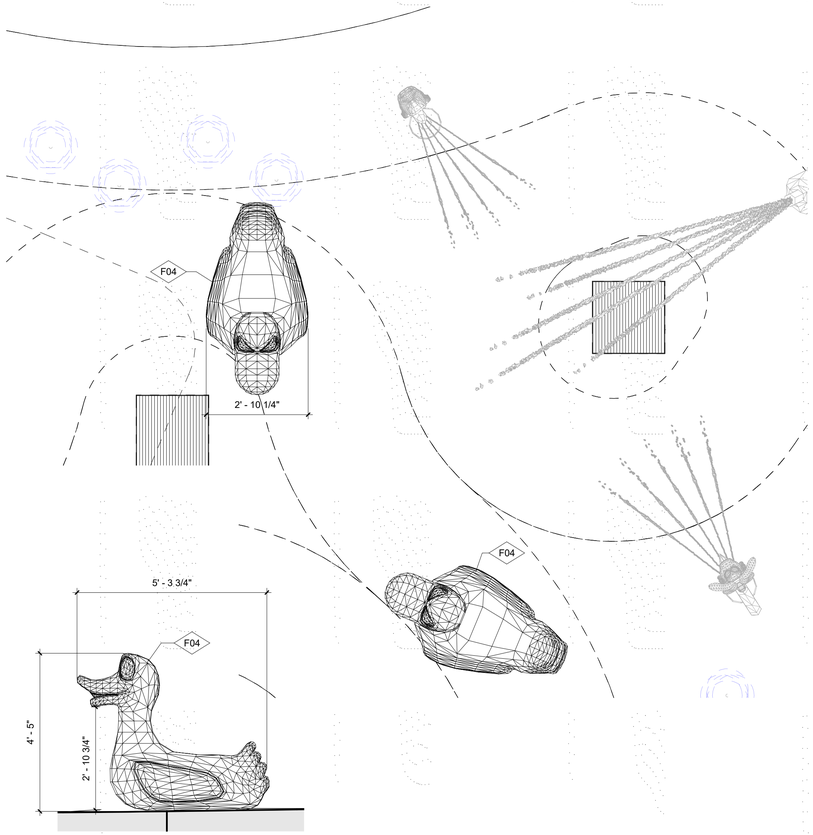
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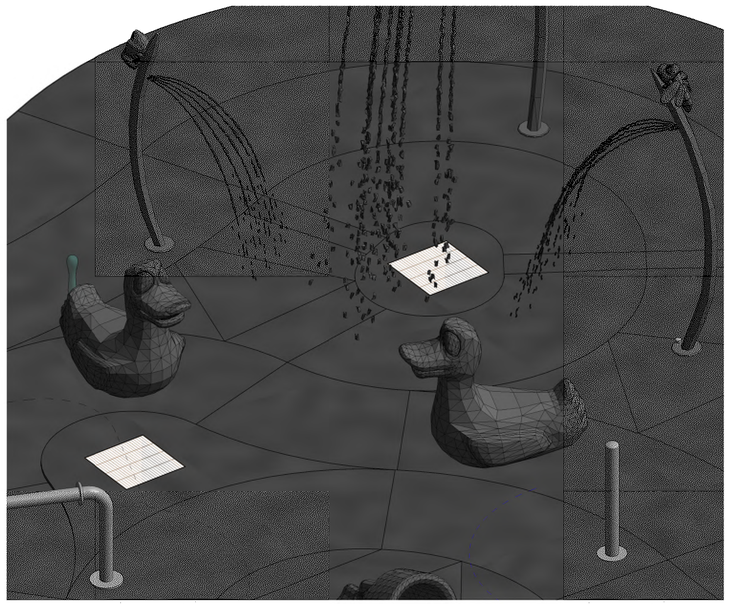
POOL D - SPRAY PAD SURFACE PLAN

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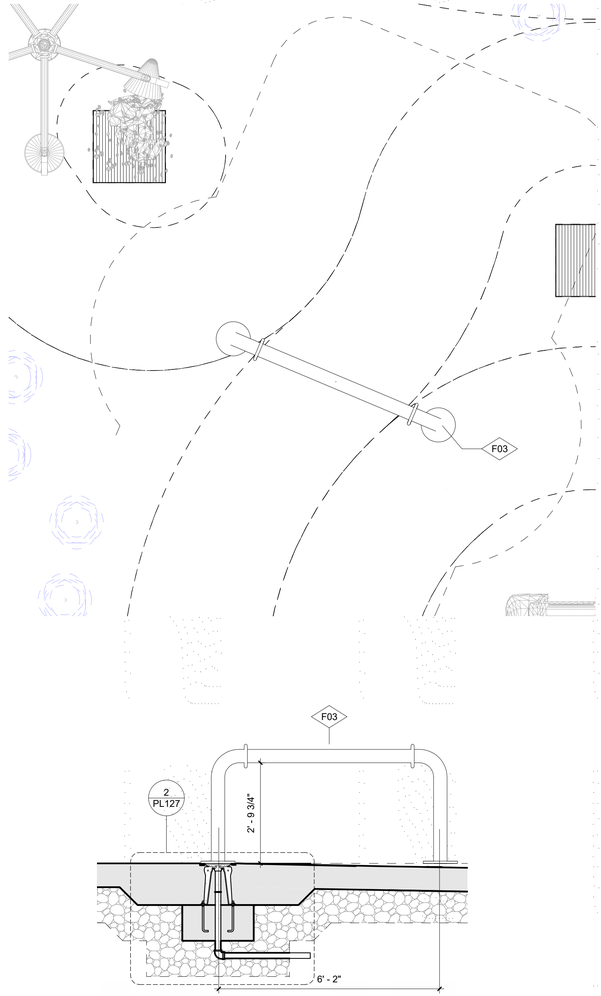
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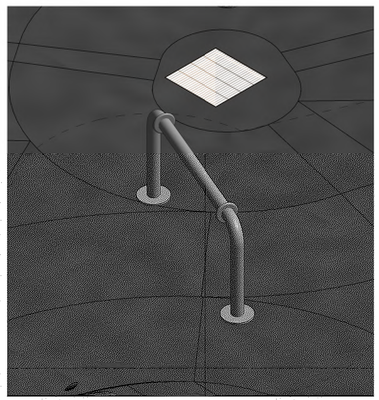
For Council Approval
Not for Bidding



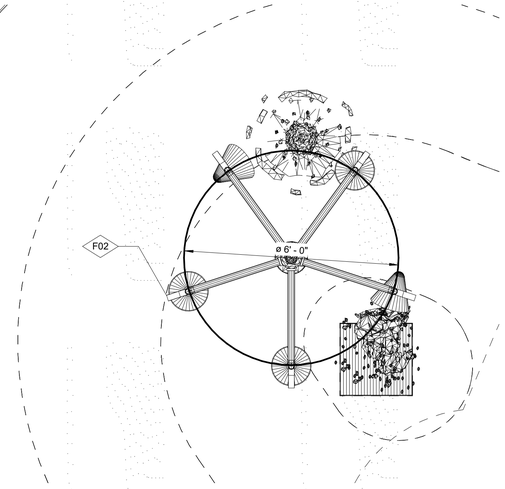


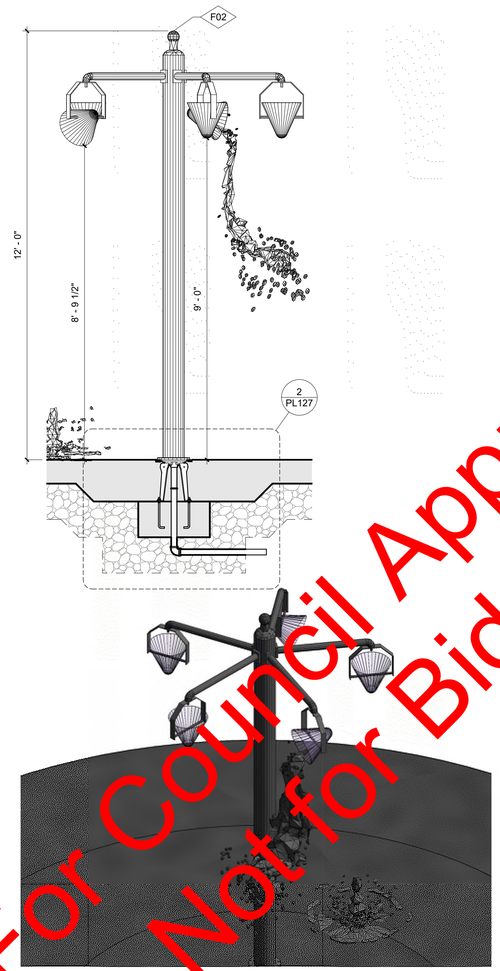
3 | PL123 DEION DUCK DETAIL VIEW
1/2" = 1'-0"





2 | PL123 ROLL A RAIL DETAIL VIEW
1/2" = 1'-0"





1 | PL123 FILL N SPILL PLAN DETAIL VIEW
1/2" = 1'-0"

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PROJECT:

CITY OF ROSEVILLE

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3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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Not for Bidding

REGISTERED ARCHITECT
Robert Fisher
C-20536
Expiration Date
01/31/2023
STATE OF CALIFORNIA

8/20/2021

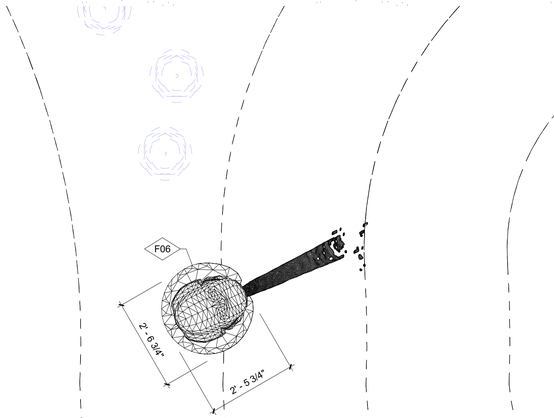
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

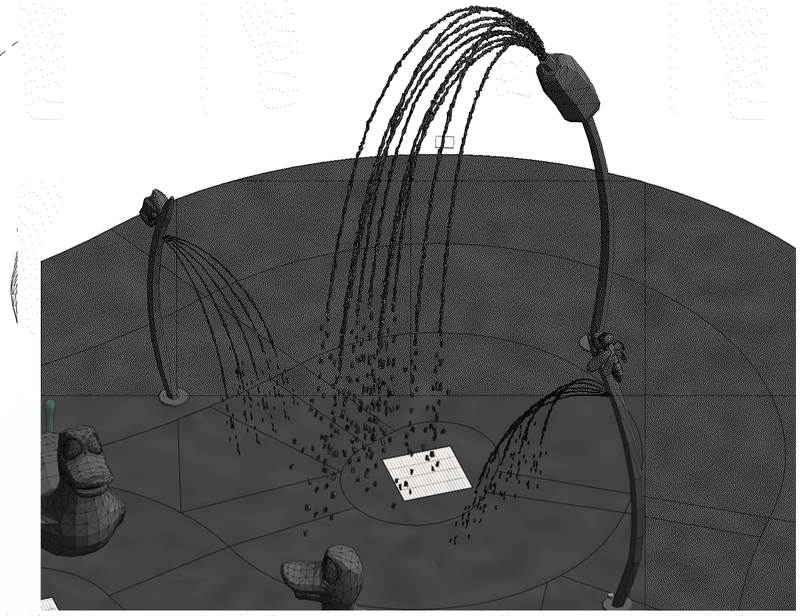
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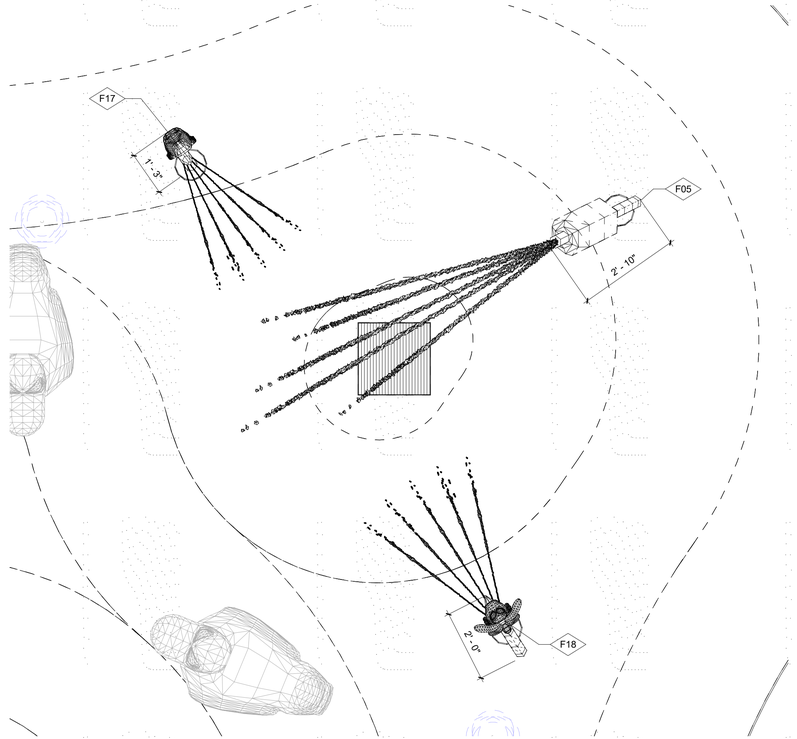
POOL D - SPRAY PAD DETAILS

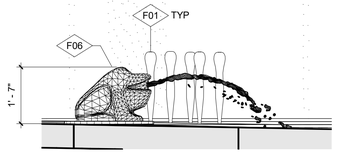
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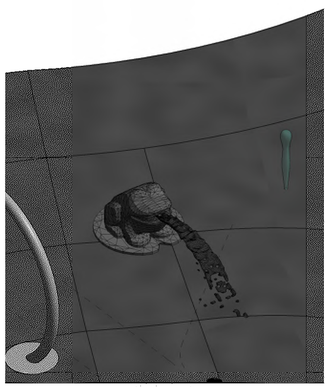
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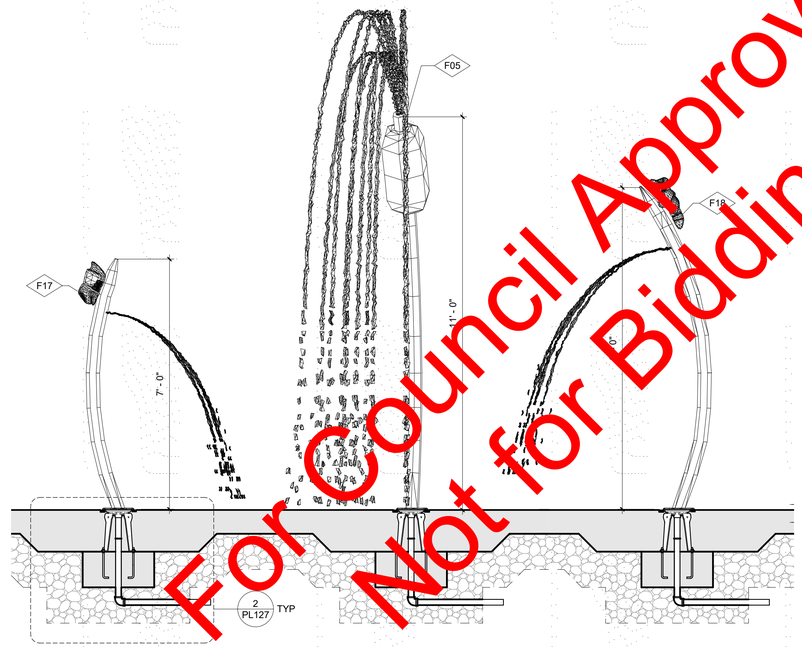












2 | PL124 FELIPE FROG AQUA SPOUT DETAIL VIEW
1/2" = 1'-0"

1 | PL124 CATTAIL TOO DETAIL VIEW
1/2" = 1'-0"

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3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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REGISTERED ARCHITECT C-20535 Jeffrey Katz 8/30/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

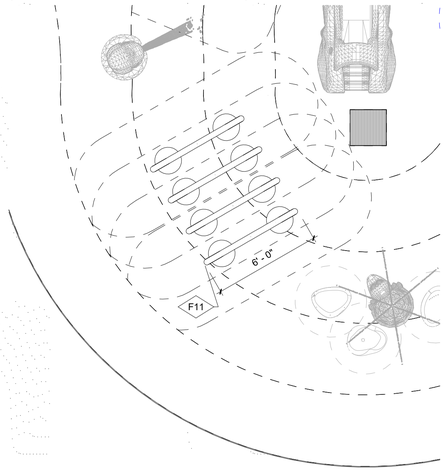
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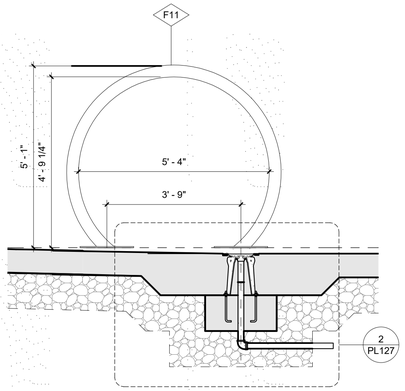
POOL D - SPRAY PAD DETAILS

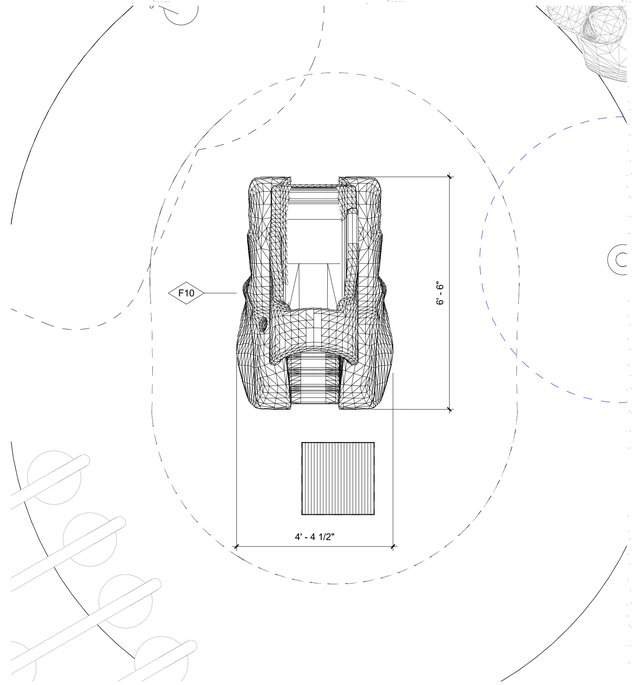
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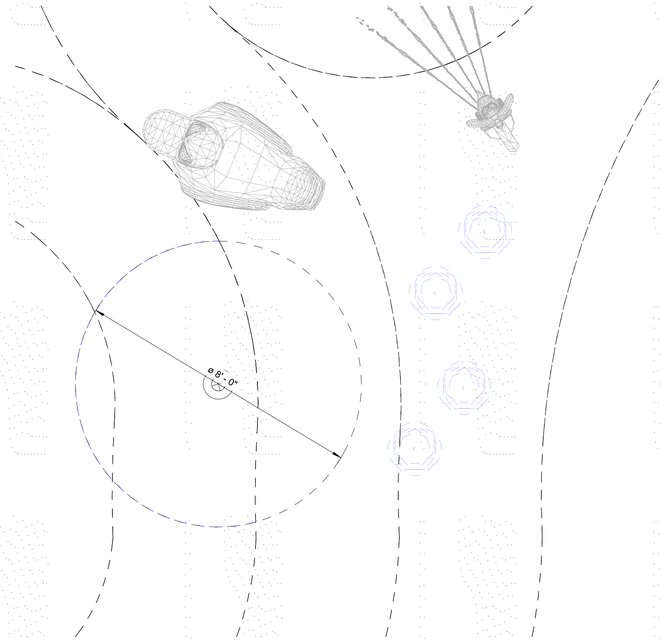
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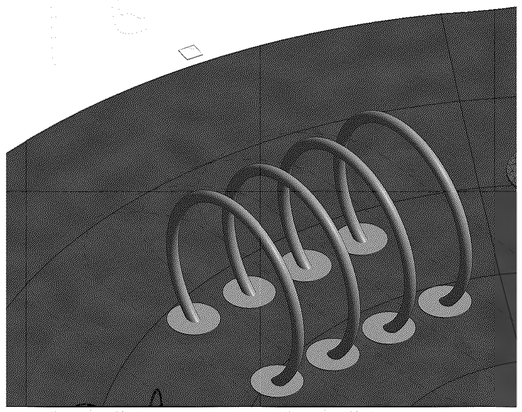
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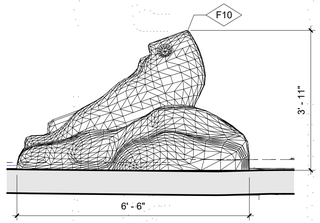


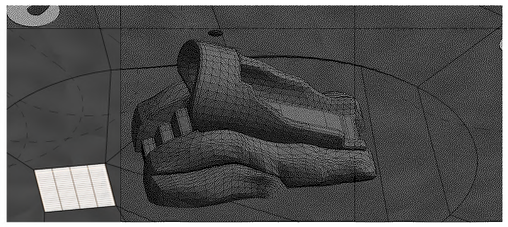


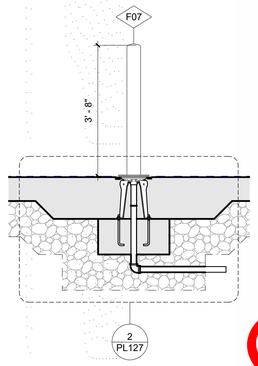














3 | PL125 SINGLE WATER RING DETAIL VIEW
1/4" = 1'-0"

2 | PL125 HOLLOW LOG SLIDE DETAIL VIEW
1/2" = 1'-0"

1 | PL125 MUSHROOM MAZ DETAIL VIEW
1/2" = 1'-0"

For Council Approval
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3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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REGISTERED ARCHITECT JEFFREY R. BRUNTON C-20538 Renewal Date 8/30/2023 STATE OF CALIFORNIA

8/20/2021

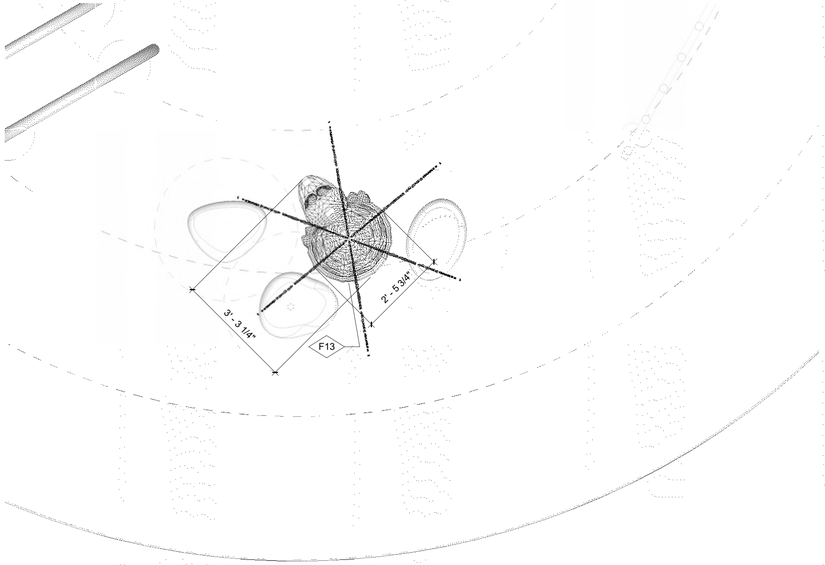
Project Number:	19285
Approved By:	JRB
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Drawn By:	JVH

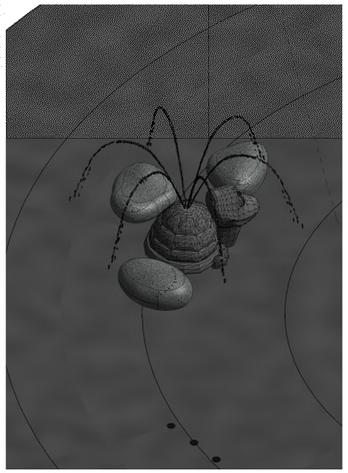
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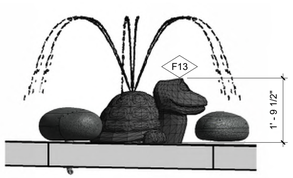
POOL D - SPRAY PAD DETAILS

SHEET NUMBER:

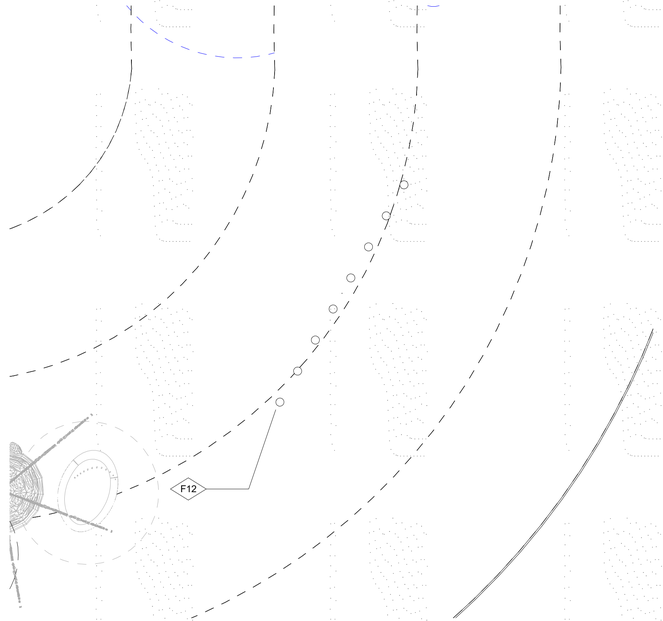
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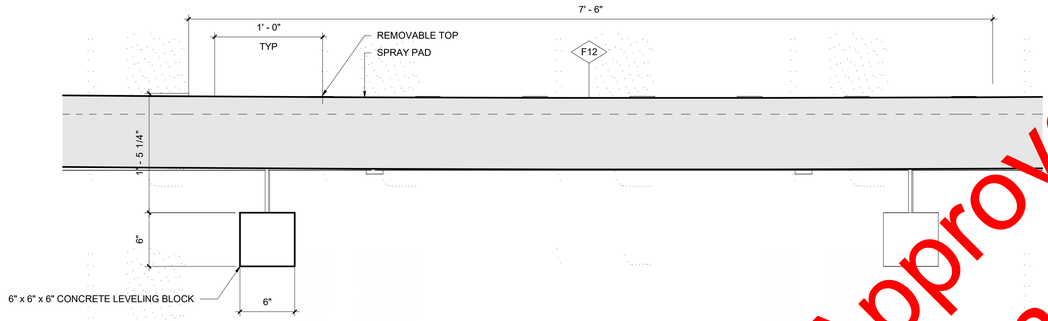


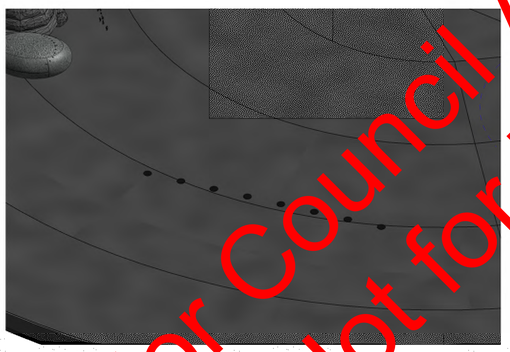




2 | PL126 BILLY BOX TURTLE DETAIL VIEW
1/2" = 1'-0"







1 | PL126 OVER N' UNDER DETAIL VIEW
1/2" = 1'-0"

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CITY OF ROSEVILLE CALIFORNIA

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REGISTERED ARCHITECT JEFFREY BRUCE KATZ C-20538 4/30/2023 RENEWAL DATE STATE OF CALIFORNIA
8/20/2021

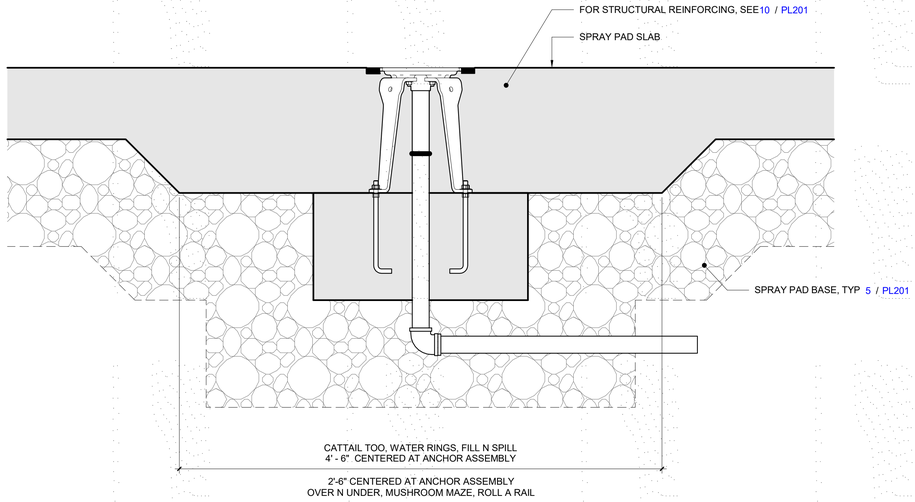
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

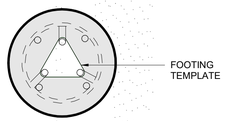
POOL D - SPRAY PAD DETAILS

SHEET NUMBER:

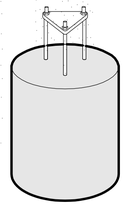
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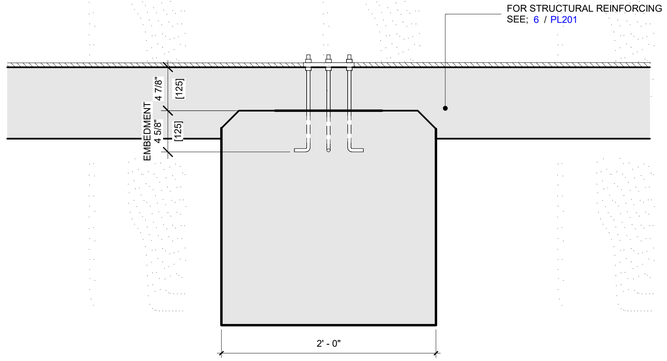
2 | PL127 ACTIVITY LEVELING FOOTING DETAIL VIEW
1 1/2" = 1'-0"



PLAN VIEW



ISOMETRIC VIEW

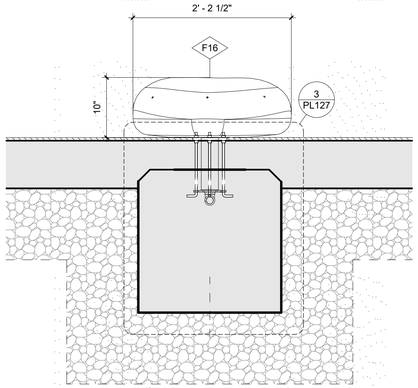


SECTION VIEW

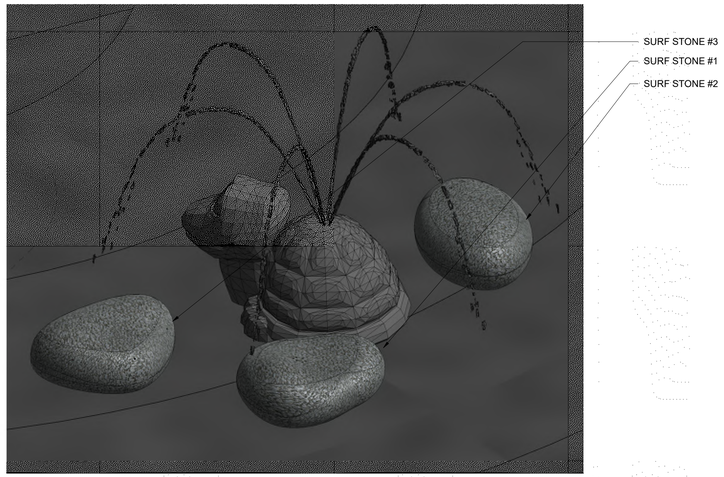
NOTES:

1. FOR COMPLETE INSTALL DETAILS REFER TO WATERPLAY ASSEMBLY DOCUMENTS.

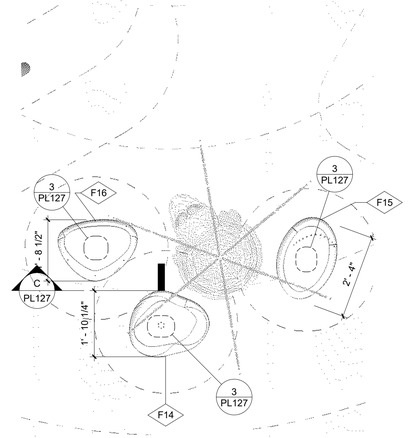
3 | PL127 ACTIVITY INSTALLATION - 'F' FOUNDATION DETAIL VIEW
1 1/2" = 1'-0"

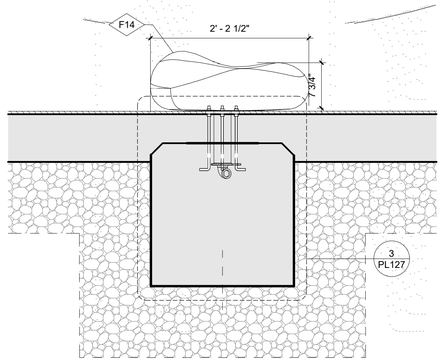


SURF STONE #3

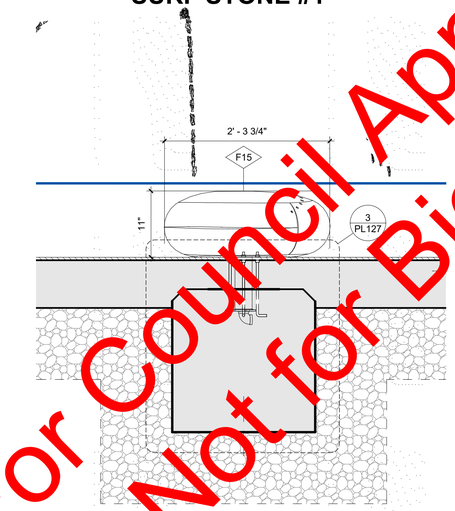


1 | PL127 SURF STONE #1 #2 #3 DETAIL VIEW
1/2" = 1'-0"





SURF STONE #1



SURF STONE #2

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-20538 4/30/2023 Renewal Date STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:

POOL D - SPRAY PAD DETAILS

SHEET NUMBER:

PL127

NOTE

STRUCTURAL DRAWINGS AND POOL DRAWINGS MUST BE USED IN CONJUNCTION WITH EACH OTHER. POOL DRAWINGS DICTATE ALL FINAL CONDITIONS OF POOL, FEATURES, AND DIMENSIONS OF POOL SHELL, INCLUDING POOL FINISH. UNLESS OTHERWISE INDICATED, STRUCTURAL DIMENSIONS ARE CONCRETE TO CONCRETE, AND DICTATE REQUIRED THICKNESSES FOR STRUCTURAL INTEGRITY ONLY.

GEOTECHNICAL PARAMETERS

ASSUMED SOIL PARAMETERS FOR POOL STRUCTURAL DESIGN

1. POOL DESIGNED FOR THE EMPTY CONDITION (CONTROLLING CASE)
2. IF ANY OF THE CRITERIA LISTED BELOW ARE NOT MET THEN THE POOL'S STRUCTURAL DESIGN SHOULD BE RE-EVALUATED BY THE POOL STRUCTURAL ENGINEER.

- SOIL BEARING CAPACITY 2,500 PSF MINIMUM
- AT-REST EQUIVALENT FLUID PRESSURE 55 PSF/FT MAXIMUM
- SOIL GROUNDWATER TABLE ELEVATION BELOW BOTTOM OF POOL FLOOR
- SETTLEMENT AND/OR PVR DOES NOT EXCEED 1/2" TOTAL MOVEMENT AND 1/4" DIFFERENTIAL MOVEMENT

SEISMIC FACTORS ASCE 7-16:
Ss = 0.451 g
S1 = 0.225 g
SITE CLASS D - ASSUMED
SEISMIC DESIGN CATEGORY D
Sms = 0.649 g
Sm1 = 0.439 g
Sds = 0.433 g
Sd1 = 0.293 g

LIVE LOAD SURCHARGE = 100 PSF

STRUCTURAL AND REINFORCEMENT NOTES

STRUCTURAL NOTES

1. REINFORCEMENT AT WALL CORNERS AND WALL BENDS SHALL BE DETAILED PER THE ASSOCIATED TYPICAL DETAILS. CORNER AND BEND BARS SHALL BE THE SAME SIZE AND SPACING AS THE TYPICAL HORIZONTAL WALL REINFORCING OF THE ASSOCIATED WALLS.
2. UNLESS OTHERWISE INDICATED, ALL WALL REINFORCEMENT BARS SHALL BE CONTINUOUS AROUND CORNERS. REINFORCEMENT SHALL BE EXTENDED INTO CONNECTING WALLS. UNLESS OTHERWISE INDICATED, CONTRACTOR MAY SPLICE CONTINUOUS SLAB BARS AT LOCATIONS OF THEIR CHOOSING, EXCEPT THAT TOP BAR SPLICES SHALL BE LOCATED AT MID-SPAN AND BOTTOM BAR SPLICES SHALL BE LOCATED AT SUPPORTS. ALL REINFORCEMENT BENDS AND LAPS, UNLESS OTHERWISE INDICATED, SHALL SATISFY THE MINIMUM REQUIREMENTS IN LAP SCHEDULE.
3. FOR REINFORCEMENT AT WALL OR FLOOR SLAB PENETRATIONS, SEE 4 / PL200
4. ALL NEW CONCRETE FOR POOL C SHALL CONTAIN SHRINKAGE REDUCING ADMIXTURE.
5. POURED CONCRETE SHALL BE 4500 PSI, SHOTCRETE SHALL BE 5000 PSI.

REINFORCEMENT NOTES: 60KSI, A615, DEFORMED BARS

1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
2. ALL LAPS SHALL BE CLASS "B" PER ACI 318 UNLESS OTHERWISE NOTES ON THE DESIGN DRAWINGS OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS. USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP
3. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
4. TIE POOL REINFORCING STEEL WITH 18-GAUGE ANNEALED WIRE AS SPECIFIED IN THE CRSI 63 RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS. ALL TIE WIRES SHALL BE "MADE TIGHT" FOR ELECTRICAL BONDING PURPOSES, AS REQUIRED BY NEC, ARTICLE 680.
5. ALL HOOKS SHALL BE STANDARD HOOKS UNLESS NOTED OTHERWISE.

REINFORCING STEEL MINIMUM CLEAR COVER REQUIREMENTS
COORDINATE WITH REINFORCEMENT STEEL PLACING REQUIREMENTS

3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
2" TYPICAL ALL ELSE, UNLESS NOTED OTHERWISE ON DETAILS

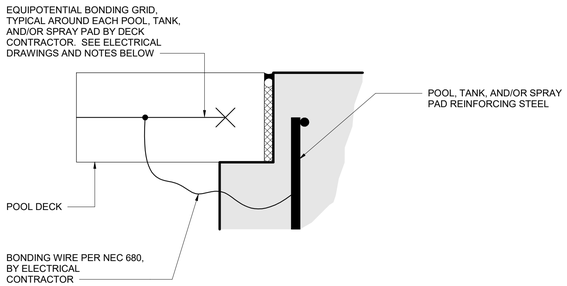
REINFORCEMENT CLASS "B" LAP LENGTHS
TABLE BASED UPON 4500 PSI CONCRETE AND 60 KSI REINFORCING STEEL

BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
GR-60 TOP BAR	1'-11" [584]	2'-7" [787]	3'-2" [965]	3'-10" [1168]	5'-7" [1702]	6'-4" [1930]	7'-1" [2159]	7'-11" [2413]	8'-8" [2642]
GR-60 OTHER BAR	1'-6" [457]	2'-0" [610]	2'-6" [762]	2'-11" [889]	4'-3" [1295]	4'-11" [1499]	5'-6" [1676]	6'-1" [1854]	6'-8" [2032]

STANDARD HOOK DIMENSION

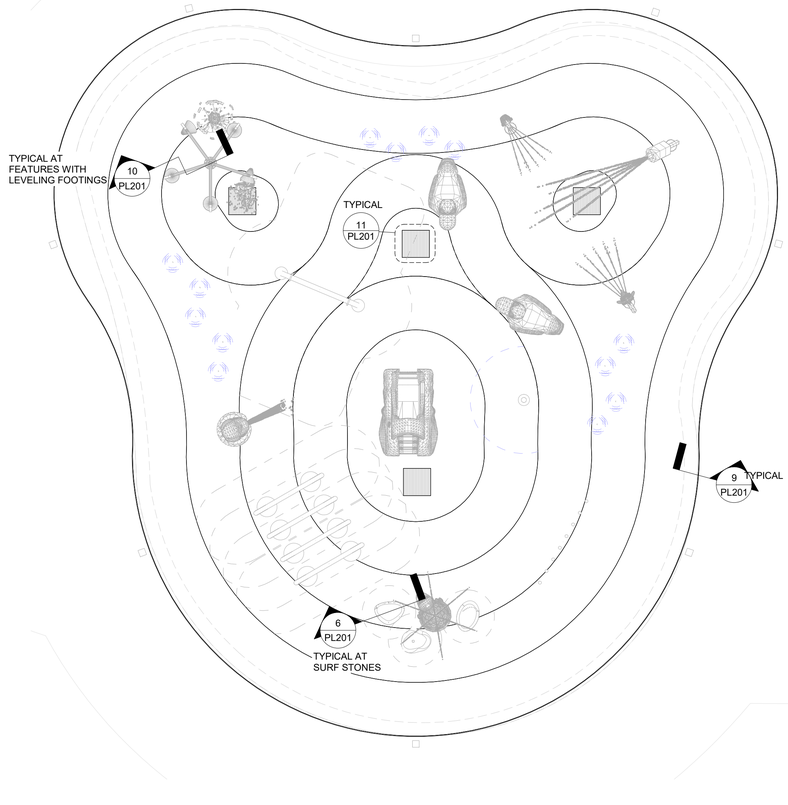
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
HOOK LENGTH	7" [178]	9" [229]	1'-0" [305]	1'-2" [356]	1'-4" [406]	1'-6" [457]	1'-11" [587]	2'-2" [661]	2'-5" [736]

TYPICAL STANDARD DETAILS

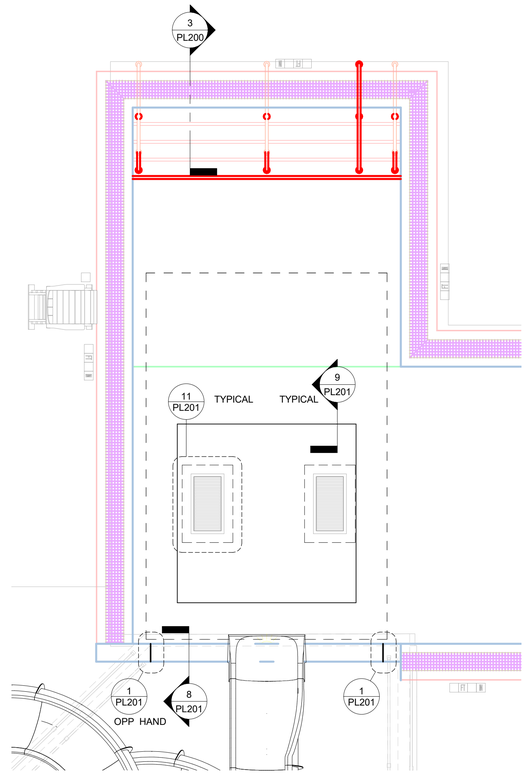


NOTES:
1. THIS DETAIL IS INTENDED TO ILLUSTRATE THE EQUIPOTENTIAL BONDING GRID AROUND EACH POOL, TANK, AND/OR SPRAY PAD AS REQUIRED BY NEC 680.
2. THE GRID SHALL CONFORM TO ALL NEC 680 REQUIREMENTS.
3. PER NEC 680, THE GRID SHALL:
   3.a. COMPLETELY SURROUND THE PERIMETER OF THE POOL, TANK, AND/OR SPRAY PAD AND EXTEND 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOL, AND/OR TANK, OR PERIMETER EXPANSION JOINT AT SPRAY PADS.
   3.b. BE ARRANGED IN A 12" X 12" (OR LESS) NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PATTERN.
   3.c. BE BONDED TO THE POOL, TANK, AND/OR SPRAY PAD REINFORCING STEEL.
4. THIS DETAIL IS NOT INTENDED TO DETAIL THE WALLS, SLABS, OR THE DECKS. THE ABOVE DETAIL IS SCHEMATIC. SEE POOL, TANK, AND/OR SPRAY PAD SECTIONS AND DECK SECTIONS FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.
5. SEE POOL, TANK, AND/OR SPRAY PAD ELECTRICAL DRAWINGS FOR ADDITIONAL BONDING & GROUNDING REQUIREMENTS.

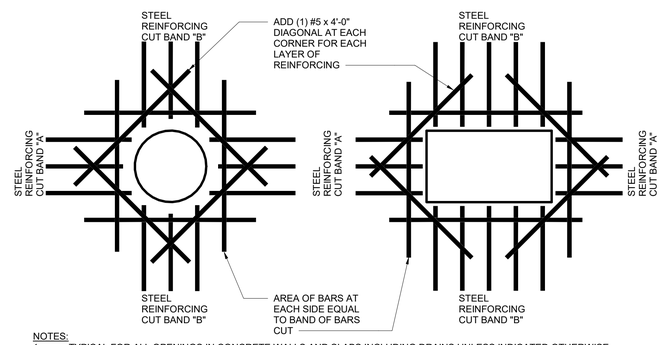
5 PL200 | EQUIPOTENTIAL BONDING GRID SCHEMATIC DETAIL
DETAIL VIEW
NTS



2 PL200 | POOL D - NEW SPRAY PAD STRUCTURAL
PLAN VIEW
3/16" = 1'-0"

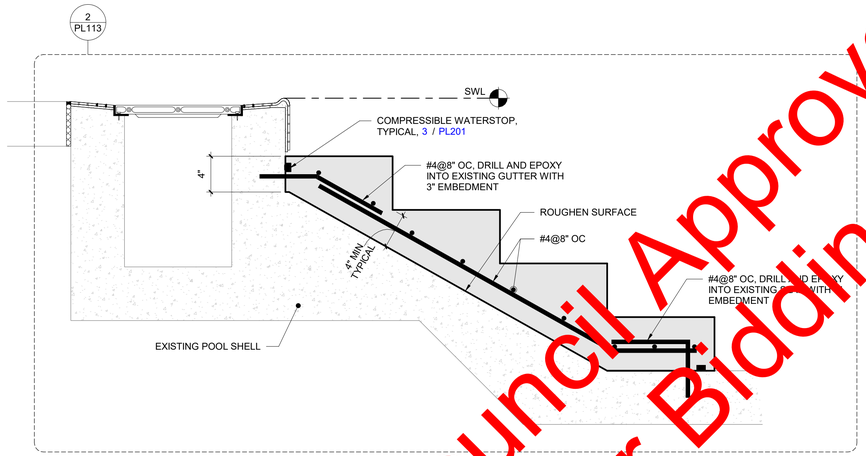


1 PL200 | POOL C -EXISTING LEISURE POOL - PARTIAL STRUCTURAL PLAN
PLAN VIEW
1/4" = 1'-0"



NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS INCLUDING DRAINS UNLESS INDICATED OTHERWISE ON PLANS.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.
3. ALL OPENINGS THROUGH WATERTIGHT TANK REQUIRE WATERSTOPS.
4. PROVIDE MIN LAP AS NOTED OR SHOWN ON PLANS (TYP)

4 PL200 | REINFORCING - REINFORCEMENT AT OPENINGS
DETAIL VIEW
NTS



3 PL200 | REINFORCING - STAIRS
SECTION VIEW
NOT TO SCALE

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PREPARED BY:

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Phone 414 / 259 1500

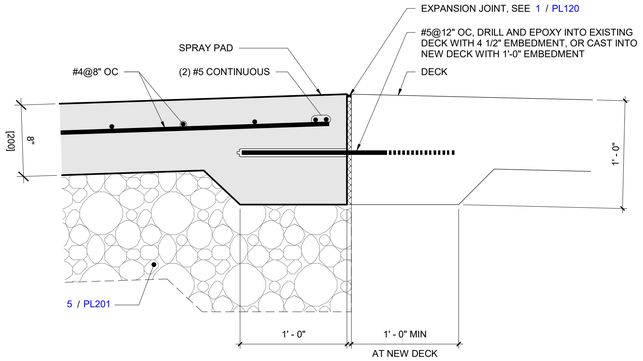
REGISTERED PROFESSIONAL ENGINEER BEAU M. SANDERS 5736 EXP. 6/30/23 STRUCTURAL STATE OF CALIFORNIA
6/20/21

"Structural Scope of Work"

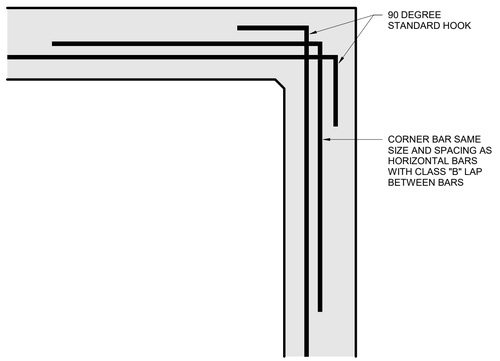
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	JVH

Sheet Title:
STRUCTURAL NOTES, PLAN(S) AND SCHEDULE

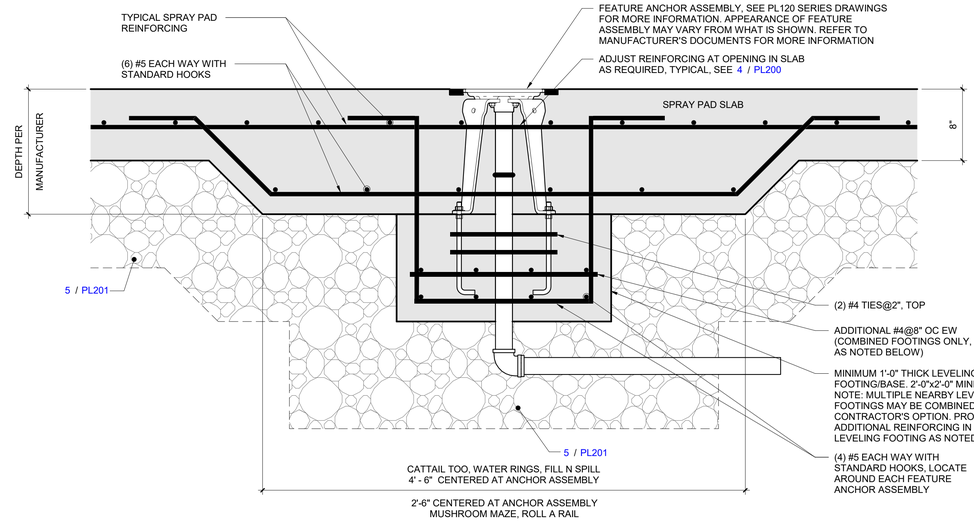
SHEET NUMBER:
PL200



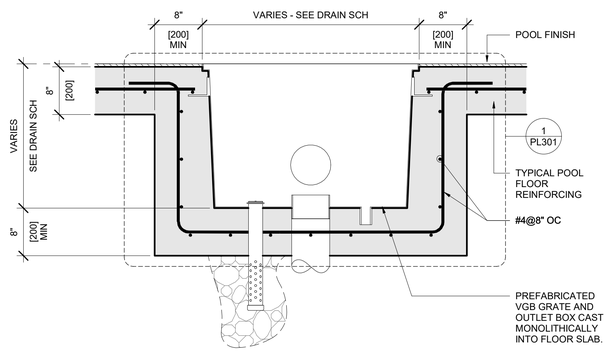
9 PL201 REINFORCING - SPRAY PAD EDGE DETAIL VIEW
NOT TO SCALE



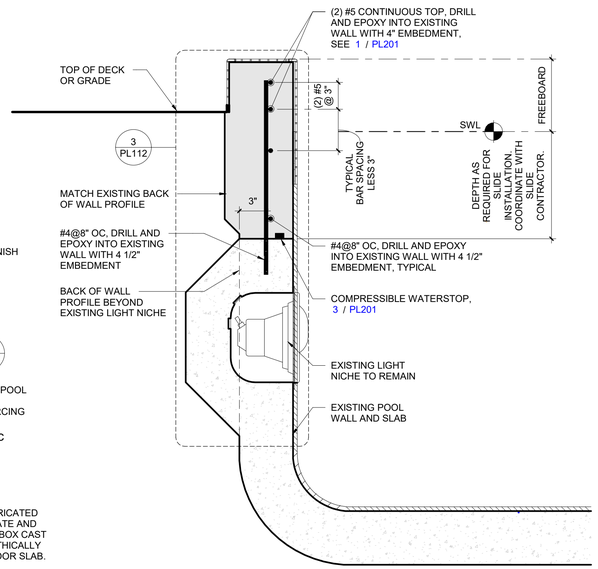
7 PL201 REINFORCING - SINGLE MAT REINFORCING AT CORNER DETAIL VIEW
NOT TO SCALE



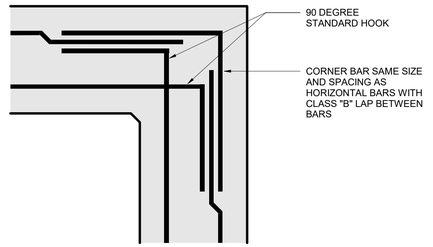
10 PL201 REINFORCING - ACTIVITY LEVELING FOOTING SECTION VIEW
NOT TO SCALE



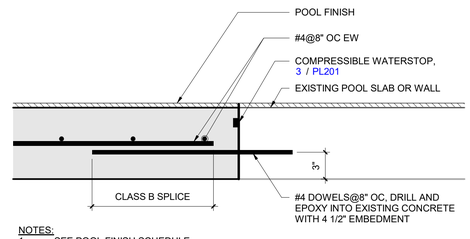
11 PL201 REINFORCING - FLOOR OUTLET DETAIL VIEW
NOT TO SCALE



8 PL201 POOL WALL - AT SLIDE WALL SECTION VIEW
1 1/2" = 1'-0"

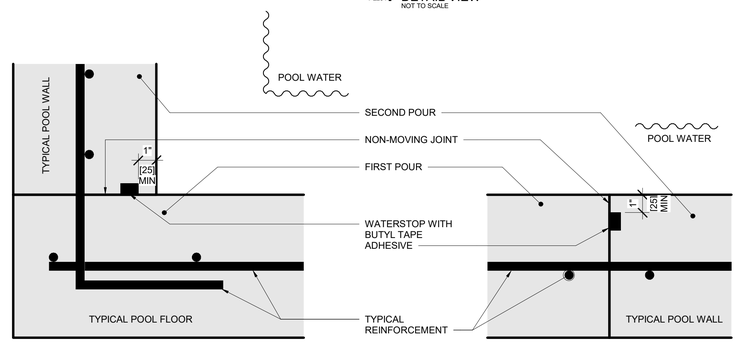


2 PL201 REINFORCING - DOUBLE MAT REINFORCING AT CORNER DETAIL VIEW
NOT TO SCALE



NOTES:
1. SEE POOL FINISH SCHEDULE
2. SEE 4 / PL201 AND 5 / PL201 FOR POOL BASE AND BACKFILL.

1 PL201 REINFORCING - NEW TO EXISTING CONCRETE DETAIL VIEW
NOT TO SCALE

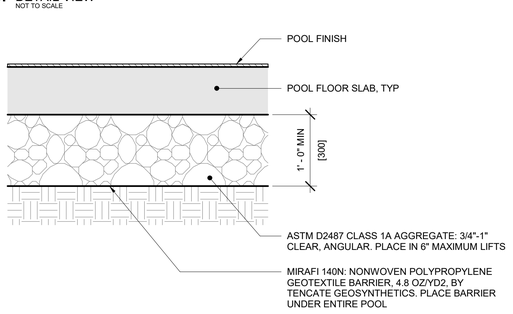


SECTION B-B FLOOR / WALL JOINT

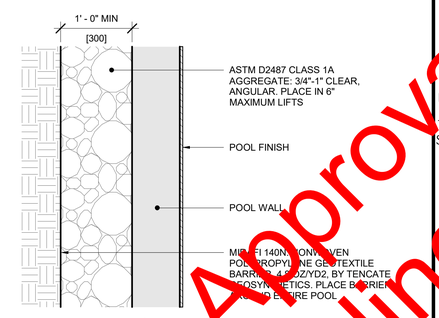
SECTION A-A: WALL / WALL JOINT OR FLOOR/FLOOR JOINT

NOTE:
1. DETAIL IS SCHEMATIC AND INDICATES CLEARANCES AND INSTALLATION INFORMATION ONLY. FOR APPLICABLE INSTALLATION LOCATIONS SEE POOL STRUCTURAL DETAILS.
2. BASIS OF DESIGN IS TYPE KBA-1510FP WATERSTOP BY ADEKA. SUBSTITUTIONS MUST BE APPROVED BY ENGINEER. NOTE THAT CLEARANCES FOR SUBSTITUTIONS MAY DIFFER. REFER TO MANUFACTURER REQUIREMENTS.
3. INSTALL WATERSTOP ON WET SIDE(S) OF REINFORCEMENT.
4. DIMENSION ABOVE IS A MIN FOR CONCRETE COVERAGE AND DOES NOT INCLUDE THE POOL FINISH. PROVIDE ADDITIONAL CONCRETE COVERAGE IF POSSIBLE.
5. PROTECT WATERSTOP FROM WATER, DIRT, DEBRIS, AND DAMAGE PRIOR TO COVERING WITH CONCRETE.
6. SEE SPECIFICATION SECTION 131120 FOR ADDITIONAL WATERSTOP REQUIREMENTS.

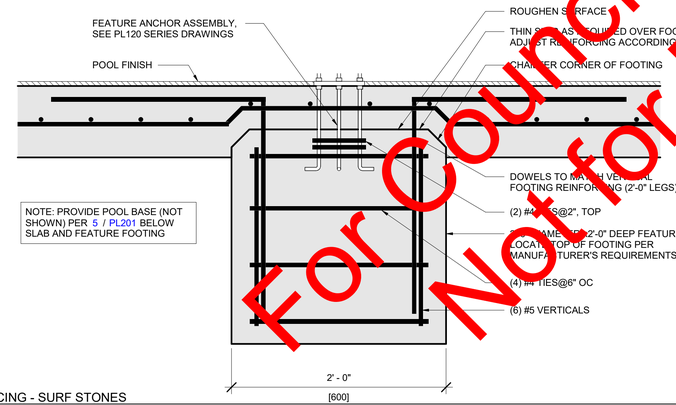
3 PL201 WATERSTOP - COMPRESSIBLE NON-MOVING JOINT - ADEKA DETAIL VIEW
NOT TO SCALE



5 PL201 FLOOR SUB BASE DETAIL VIEW
NOT TO SCALE



4 PL201 POOL WALL BACKFILL DETAIL VIEW
NOT TO SCALE



6 PL201 REINFORCING - SURF STONES SECTION VIEW
NOT TO SCALE

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"Structural Scope of Work"

Project Number:	19285
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Checked By:	JRB
Drawn By:	JVH

Sheet Title:

STRUCTURAL DETAILS

SHEET NUMBER:

PL201

PIPING NOTES

REFER TO DIVISION 13 SPECIFICATIONS FOR DETAILS

PIPING

a. ALL PIPING SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS - THE DESIGN, OPERATION, AND MAINTENANCE OF PUBLIC SWIMMING POOLS. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH CODE. THE A.S.T.M. DESIGNATION NUMBER D-1785, AND THE NSF SEAL FOR POTABLE WATER.
b. ALL PIPING DESIGNED FOR 8'/SECOND MAX SUCTION, 10'/SECOND MAX PRESSURE IN OTHER THAN COPPER. 8'/SECOND MAX PRESSURE IN COPPER, AND 3'/SECOND MAX GRAVITY. MAIN DRAIN PIPING SHALL CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 6'/SECOND.
c. ALL ZERO DEPTH GUTTER, GUTTER AND INLET SUPPLY PIPING MUST BE LAID ON A GRADE SO IT WILL DRAIN TO THE SURGE TANK COMPLETELY BY GRAVITY. MAIN DRAIN LINE PIPING MUST BE LAID ON A GRADE SO; (A) ALL PIPING FROM BENEATH THE POOL TO THE ELEVATION CHANGE SHALL PITCH TO DRAIN TO THE POOL MAIN DRAIN SUMPS AND; (B) ALL PIPING FROM THE ELEVATION CHANGE TO THE SURGE TANK SHALL PITCH TO DRAIN TO THE SURGE TANK. IN ALL INSTANCES WHERE GRAVITY DRAINAGE IS NOT PROVIDED; THE CONTRACTOR SHALL INSTALL DRAIN VALVES SO THAT ALL LINES CAN BE DRAINED COMPLETELY TO SURGE TANK OR ANOTHER APPROVED LOCATION. DRAINAGE PLUGS SHALL BE PROVIDED IN THE PIPING SYSTEM TO ALLOW FOR DRAINING OF POOL PIPING. CONTRACTOR SHALL PROVIDE OPERATION AND DRAINING INSTRUCTIONS TO OWNER.
d. ALL ELEVATIONS TO BE FIELD VERIFIED TO ALLOW FOR PROPER PITCH AND DRAINAGE. PITCH - APPROXIMATE 1"/ 10'-0". POOL CONTRACTOR SHALL MAKE EVERY EFFORT TO CURTAIL THE USE OF FITTINGS TO REDUCE HEAD.
e. THIS DRAWING IS INTENDED FOR SCHEMATIC USE ONLY!! FINAL LOCATIONS SHALL BE FIELD VERIFIED WITH ALL OTHER TRADES, BY CONTRACTOR. CONTRACTOR SHALL COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS.

DRAINS

a. ALL DRAIN FITTINGS TO CARRY 100% OF RECIRCULATION RATE AT A VELOCITY NOT TO EXCEED 1.5'/SECOND THROUGH THE CLEAR AREA OF THE GRATE.
b. ALL DRAINS AND OUTLETS SHALL CONFORM WITH ANSI/APSP-16 2011 OR ANY SUCCESSOR STANDARD.
c. FILTER BACKWASH LINE, POOL DRAIN LINE, SURGE TANK DRAIN LINE, SURGE TANK OVERFLOW LINE & POOL UNDER DRAIN LINE TO DISCHARGE TO SEWER WITH MIN 6" AIR GAP.

GAUGES

a. PROVIDE COMPOUND GAUGES TO BE INSTALLED ON ALL PUMP SUCTION & DISCHARGE LINES.

VALVES

a. PROVIDE BACKWATER VALVES AND GEAR OPERATED SUBSURFACE BUTTERFLY VALVES WITH VALVE EXTENSIONS FOR ALL POOL AND SURGE TANK DRAIN LINES.
b. EACH VALVE SHALL HAVE A PERMANENT IDENTIFYING LABEL OR TAG ATTACHED TO IT. THE SEQUENCE OF OPERATION, BRIEFLY STATED, SHALL BE PROMINENTLY DISPLAYED.

FLOW METERS

a. FLOW METER SHALL BE PROVIDED IN THE FILTRATION PUMP DISCHARGE LINE AND IN EACH INLET RETURN LINE AS INDICATED ON THE DRAWINGS. FLOW METERS SHALL BE INSTALLED ON A STRAIGHT LENGTH OF PIPE WITHOUT ANY VALVE, ELBOW OR OTHER SOURCE OF TURBULENCE (UNINTERRUPTED FLOW). PROVIDE A MIN OF 10 PIPE DIA UPSTREAM AND 5 PIPE DIA DOWNSTREAM FROM THE FLOW METER OF UNINTERRUPTED FLOW OR INSTALL PER MANUFACTURER'S COMMENDATIONS.
b. MAIN FLOW METER SHALL BE USED TO MONITOR BACKWASH RATE.

FILTERS

a. FILTER SHALL BE PROVIDED WITH THE FOLLOWING APPROPRIATELY LOCATED ACCESSORIES: PRESSURE GAUGES, BACKWASH SIGHT GLASS ON WASTE DISCHARGE LINE, AN AIR RELIEF VALVE AT THE HIGH POINT OF THE FILTER AND A VALVED TANK DRAIN.

DRAIN SCHEDULE

DRAIN / GRATE ID	DETAIL #	DRAIN/GRATE MFGR SPECIFICATIONS						DESIGN DATA						
		MFGR & MODEL #	DIMENSIONS		OPEN AREA		MAX ALLOWABLE FLOW PER GRATE	CONNECTED PUMPS	SYSTEM TOTAL DESIGN FLOW	DRAIN / GRATE QTY	FLOW PER GRATE	VELOCITY	SYSTEM MAXIMUM	
			WIDTH	LENGTH	PER GRATE	TOTAL							FLOW PER GRATE	VELOCITY
			(ft)	(ft)	(in2)	(in2)	(gpm)		(gpm)		(gpm)	(fps)	(gpm)	(fps)
C-PF1	PL301/1	DALDORADO: DalMAX-SG-183625	1.5	3.0	401	802	1984	P2C	1000	2	500	0.40	739	0.59
D-PF1	PL301/1	DALDORADO: DalMAX-SG-242430	2.0	2.0	357	1428	1734	P2D	449	4	112	0.10	198	0.18
NOTE: THE SYSTEM MAXIMUM FLOW RATE AND VELOCITY HAS BEEN DETERMINED BY USING THE FLOW RATE AT THE END OF THE PUMP MANUFACTURER'S PUMP CURVE.														

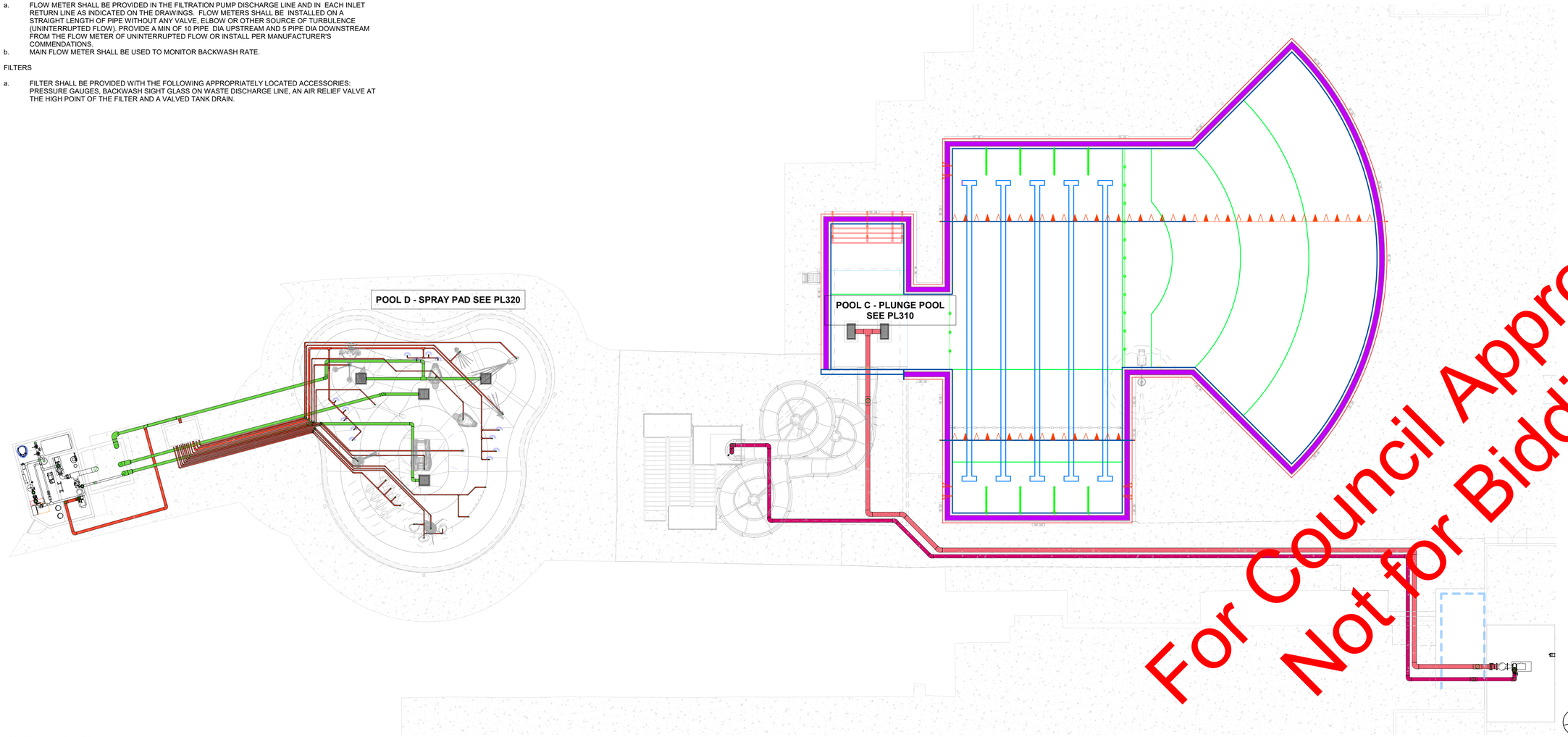
SCHEDULE - POOL FIXTURES

POOL ID	EQUIPMENT ID	QTY.	ASSEMBLY CODE	FIXTURE	MANUFACTURER	DESCRIPTION
C	1	2	PF	DalMax-SG-183625	DALDORADO	SEE DRAIN SCHEDULE
D	2	4	PF	DalMAX-SG-242430	DALDORADO	SEE DRAIN SCHEDULE

POOL CONTRACTOR PIPING PLAN NOTES

THE FOLLOWING NOTES APPLY TO ALL POOL/SLIDE PIPING PLANS:

1. THE PIPING LAYOUTS ON THIS DRAWING ARE SCHEMATIC AND FOR REFERENCE ONLY. PIPING AS SHOWN AS SPREAD OUT FOR CLARITY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL PIPE ROUTING AND ELEVATIONS.
2. REDUCE THE USE OF FITTINGS AND LONG PIPE RUNS TO MINIMIZE HEAD LOSS IN THE SYSTEM.
3. ALL PIPING SHALL BE INSTALLED IN A PIPE TRENCH WITH BEDDING AND COVER MATERIALS PER SPECIFICATIONS. PIPING MAY BE STACKED IN THE PIPE TRENCH.
4. ARROWS DENOTE DIRECTION OF FLOW.
5. REFER TO ALL DISCIPLINES DOCUMENTATION AND COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
6. ALL GRAVITY PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1" DROP PER 10' LENGTH. ALL OUTDOOR PIPING SHALL BE INSTALLED WITH A SLOPE TO ALLOW COMPLETE DRAINING. PROVIDE WINTERIZING/DRAINING INSTRUCTIONS AND SCHEMATICS TO OWNER.
7. CONTRACTOR SHALL USE SWING JOINTS OR OTHER MEANS AND METHODS AS REQUIRED TO PROVIDE POOL INLET FITTINGS FLUSH AND PERPENDICULAR WITH THE POOL FLOOR AND AS REQUIRED FOR PROPER SLOPE TO DRAIN FOR WINTERIZATION.



1 OVERALL PIPING PLAN
PL300 PLAN VIEW
3/32" = 1'-0"

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Not for Bidding

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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REGISTERED ARCHITECT Jeffrey Katz C-20536 8/30/2023 STATE OF CALIFORNIA

8/20/2021

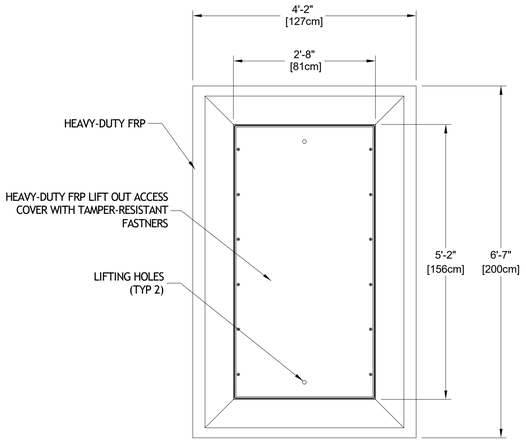
Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

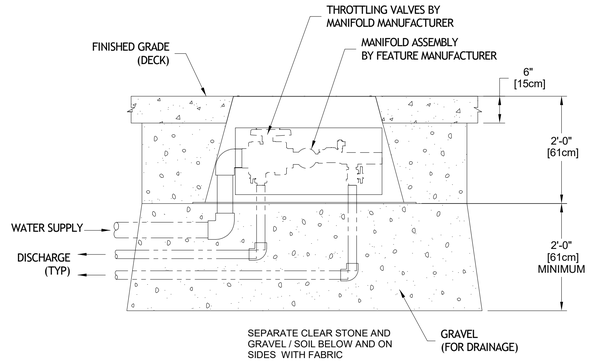
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OVERALL PIPING PLAN

SHEET NUMBER:

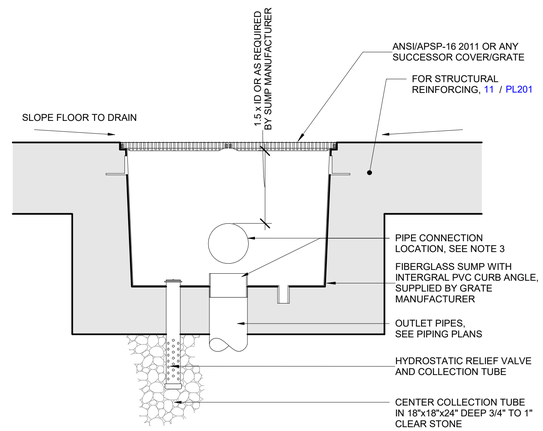
PL300





NOTE: VALVE VAULT OPEN ON BOTTOM TO ALLOW FOR DRAINAGE.

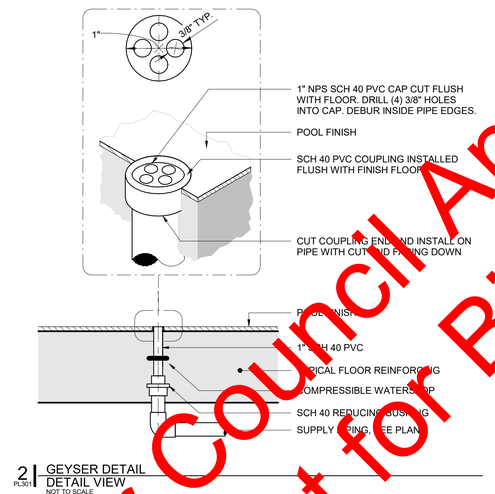
3 | PL301 VALVE VAULT DETAIL VIEW
NOT TO SCALE



NOTES:

1. SUMP AND GRATE COVER SHALL CONFORM WITH CURRENT ANSI/APSP-16 STANDARD. VERIFY GRATE DIMENSIONS AND OUTLET REQUIREMENTS WITH GRATE/SUMP MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWINGS.
2. THE FIBERGLASS SUMP SHALL BE SUPPLIED WITH THE GRATE AS INDICATED IN THE DRAIN SCH. SUMP MATERIALS SHALL MEET OR EXCEED THE SCHEDULED MANUFACTURER'S SPECIFICATION: 8 OZ. FIBERGLASS MAT WITH MARINE GRADE WHITE GELCOAT AND 2" MINIMUM FRP WATERSTOP AROUND THE OUTSIDE PERIMETER.
3. AT CONTRACTOR'S OPTION, SUMP MAY HAVE BOTTOM OR SIDE OUTLET PIPE CONNECTION.
4. CONTRACTOR SHALL INCLUDE ALL POOL DRAIN/WINTERIZATION PIPE CONNECTIONS AS SHOWN ON PIPING DRAWINGS.
5. ALL SUMPS REQUIRE A MINIMUM OF ONE HYDROSTATIC RELIEF PORT AND 2" VALVE. (HAYWARD MODEL SP1056) WITH COLLECTION TUBE PER SUMP, UNLESS OTHERWISE NOTED. VERTICALLY INSTALLED SUMPS, ELEVATED POOLS AND/OR POOLS CONSTRUCTED ON A VOID FORM DO NOT REQUIRE A HYDROSTATIC RELIEF VALVE SYSTEM. UNUSED HYDROSTATIC PORTS SHALL BE PLUGGED.
6. SEE DRAIN SCHEDULE AND PIPE PLANS.
7. SECURE ALL GRATING TO DRAIN SUMP WITH CORROSION RESISTANT FASTENERS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. FASTENERS SHALL NOT BE REMOVABLE WITHOUT THE USE OF A TOOL AND SHALL MEET ALL CURRENT ANSI/APSP/ICC-16 REQUIREMENTS. INSPECT ALL GRATING AND EACH FASTENER TO ASSURE THEY ARE IN PLACE AND PROPERLY SECURED PRIOR TO OPENING THE POOL FOR PUBLIC USE.
8. PROTECT DRAIN FROM EXTERNAL PRESSURE DURING INSTALLATION.
9. PROVIDE A REMOVABLE PLYWOOD AND A REUSABLE 1/4" PVC TOP COVER PROTECTOR WITH STAINLESS STEEL HARDWARE TO SHIELD THE INTERNALS OF EACH DRAIN SUMP FROM DEBRIS DURING CONSTRUCTION AND FOR FUTURE OWNER USE DURING WINTERIZATION AND/OR SHUTDOWN.
10. SUPPLY EACH SUMP CONNECTION PORT WITH A THREADED OR FLANGED ADAPTOR CONNECTION INSIDE THE SUMP. INCLUDE CORRESPONDING THREADED/FLANGED ADAPTOR PLUGS/FITTINGS AND STAINLESS STEEL HARDWARE FOR THE PURPOSES OF 50 PSI PRESSURE TESTING AND FUTURE WINTERIZATION AND/OR SHUTDOWN.

1 | PL301 MAIN DRAIN DETAIL VIEW
NOT TO SCALE



2 | PL301 GEYSER DETAIL DETAIL VIEW
NOT TO SCALE

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
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REGISTERED ARCHITECT C-30538 4/30/2023 STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

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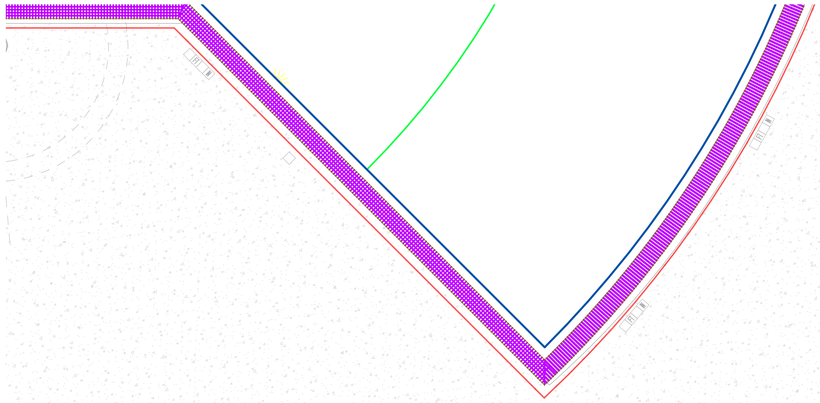
GENERAL PIPING DETAILS

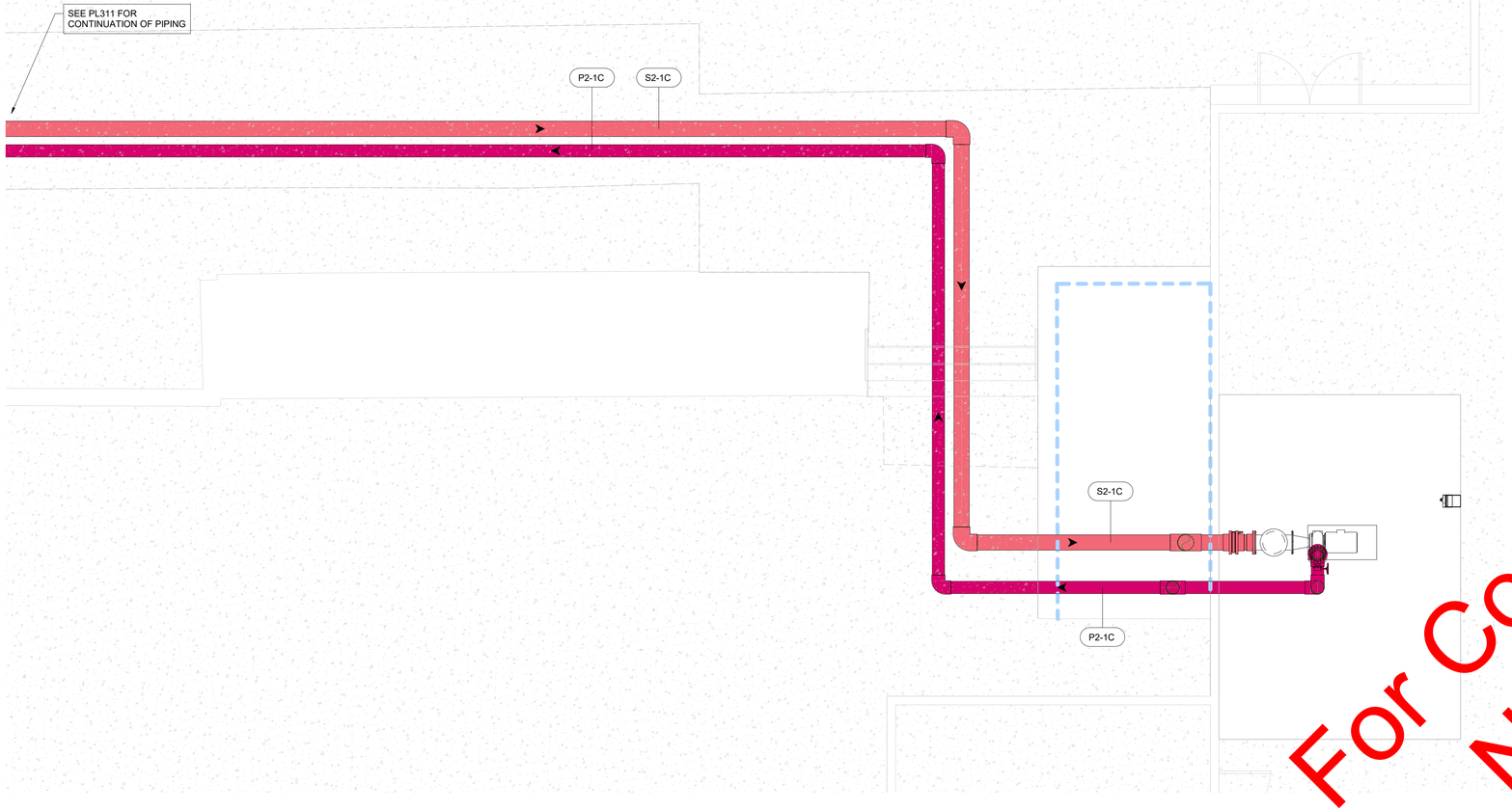
SHEET NUMBER:

PL301

POOL C - SLIDE PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S2-1C	PVC SCH 80	10	1,000	4.5	SLIDE PUMP SUCTION - MAIN DRAIN
-	-	-	-	-	-
P2-1C	PVC SCH 80	8	1,000	7.1	SLIDE SUPPLY





1 PL310 POOL C - PLUNGE POOL PIPING PLAN
PLAN VIEW
1/4" = 1'-0"

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REGISTERED ARCHITECT JEFFREY KATZ C-20538 4/30/2023 Renewal Date STATE OF CALIFORNIA
5/20/2021

Project Number:	19285
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Checked By:	JRB
Drawn By:	KMD

Sheet Title:

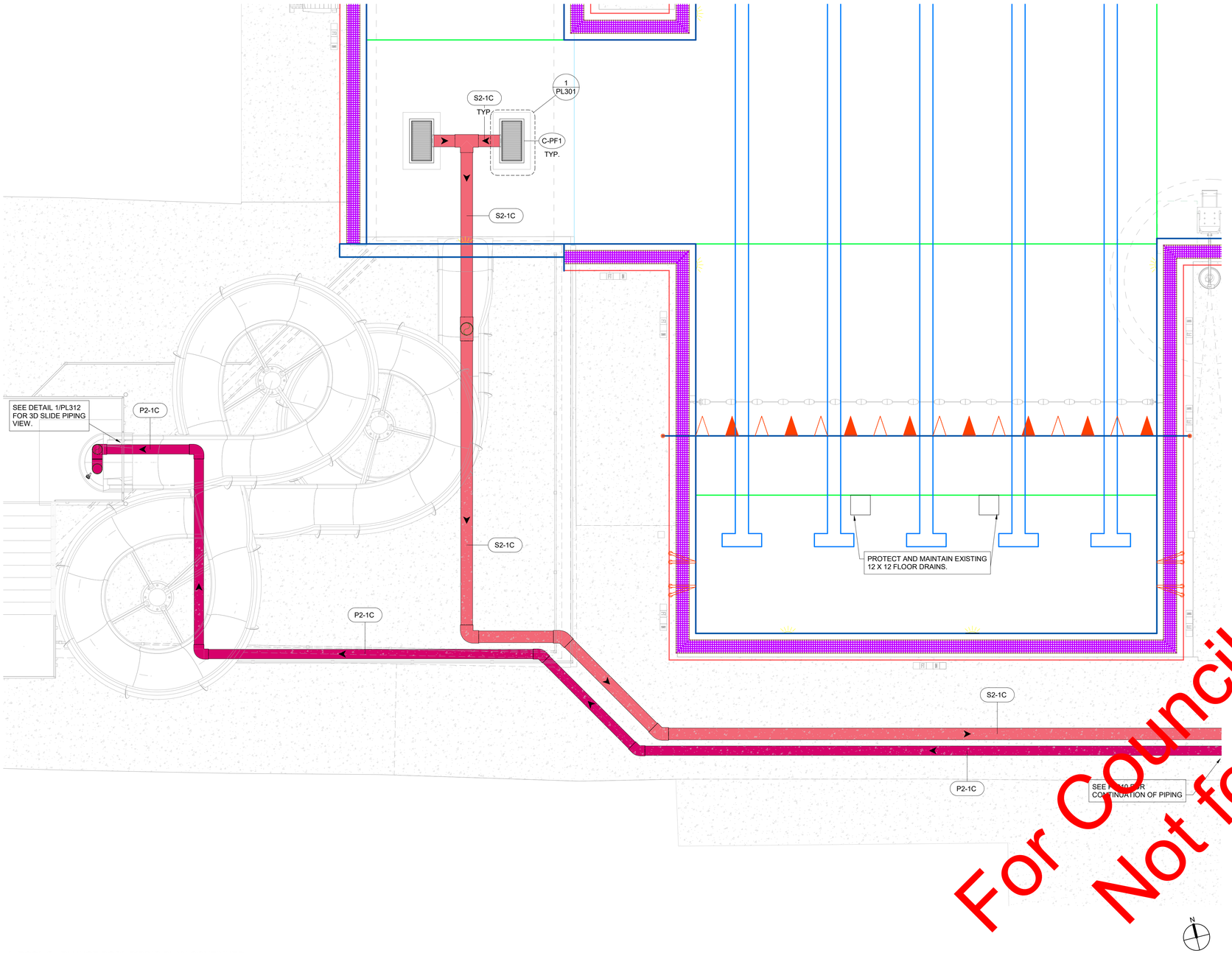
POOL C - PIPING PLAN

SHEET NUMBER:

PL310

POOL C - SLIDE PIPE SCHEDULE

PIPE ID	TYPE	NPS	FLOW	VELOCITY	DESCRIPTION
		(in)	(gpm)	(fps)	
S2-1C	PVC SCH 80	10	1,000	4.5	SLIDE PUMP SUCTION - MAIN DRAIN
-	-	-	-	-	-
P2-1C	PVC SCH 80	8	1,000	7.1	SLIDE SUPPLY



1 PL311 POOL C - PLUNGE POOL PIPING PLAN CONTINUED
PLAN VIEW
1/4" = 1'-0"

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5/20/2021

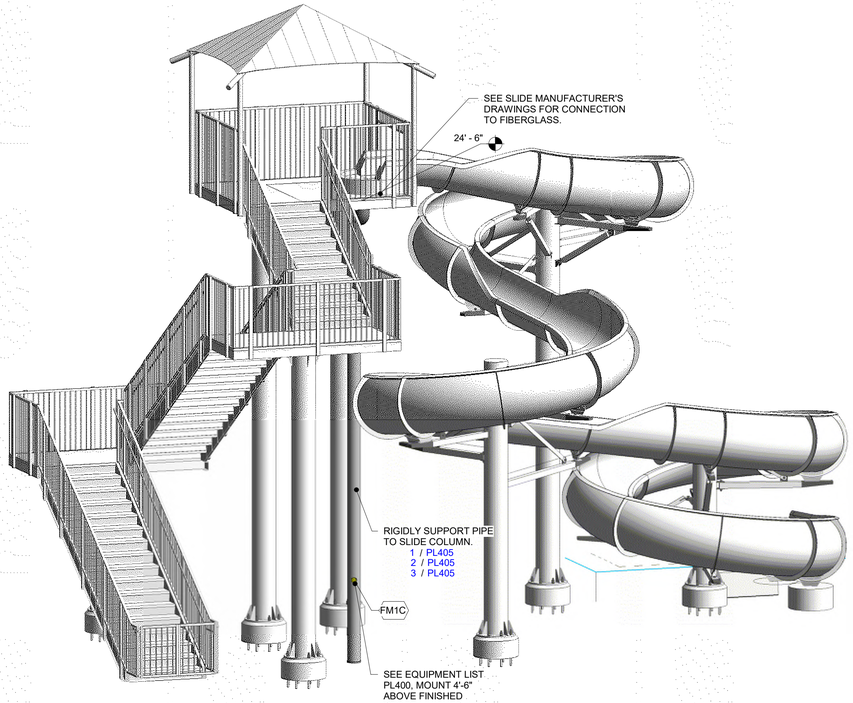
Project Number:	19285
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Drawn By:	Author

Sheet Title:

POOL C - PIPING PLAN

SHEET NUMBER:

PL311



1 PL312 3D VIEW - SLIDE
PLAN VIEW

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REGISTERED ARCHITECT
JEFFREY KATZ
C-20538
Renewal Date
STATE OF CALIFORNIA
8/30/2023
8/20/2021

Project Number:	19285
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Checked By:	Checker
Drawn By:	Author

Sheet Title:

3D - PIPING VIEWS

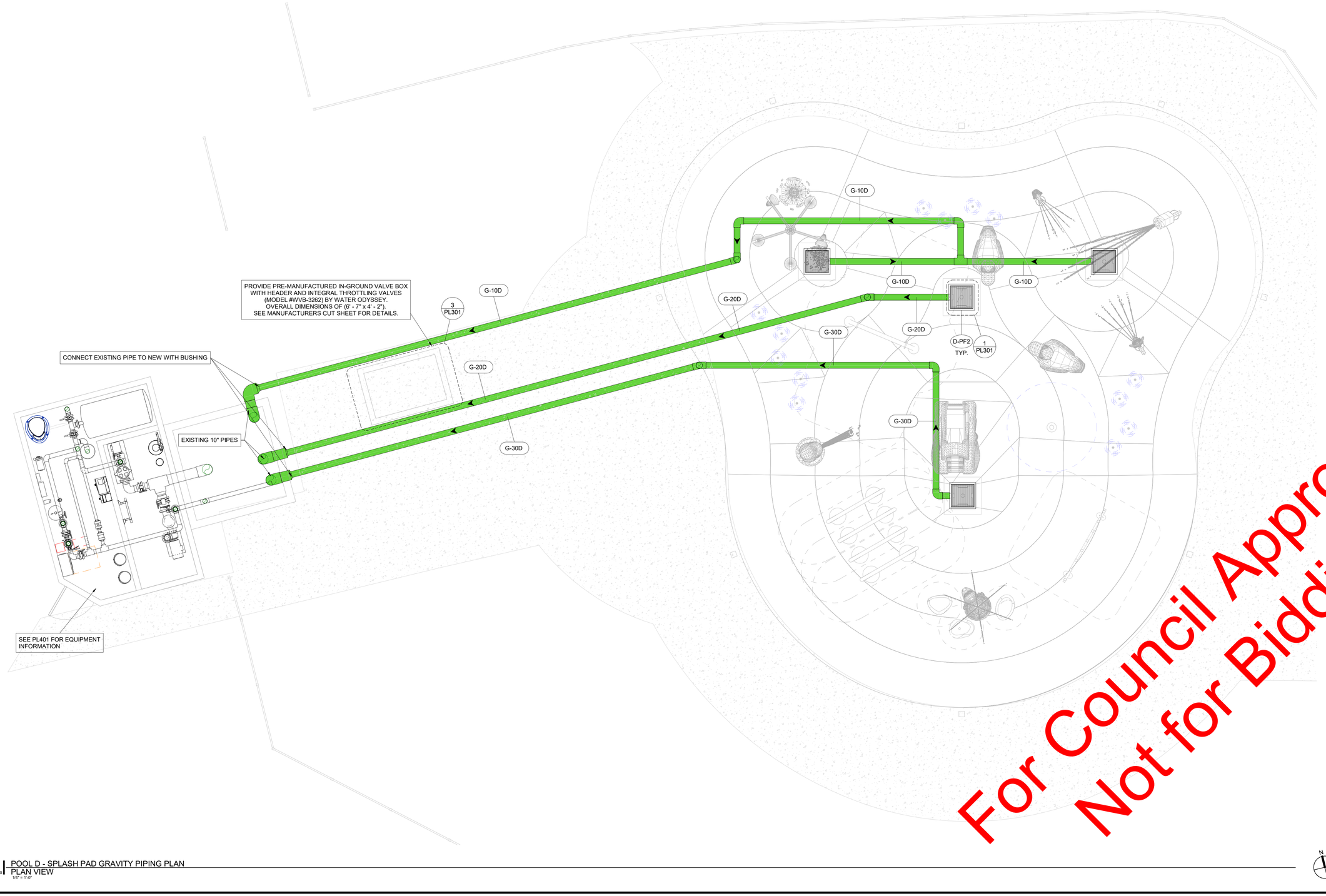
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PL312

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POOL D - SPLASH PAD PIPE SCHEDULE

PIPE ID	TYPE	NPS	FLOW	VELOCITY	DESCRIPTION
		(in)	(gpm)	(fps)	
G-10D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN
-	-	-	-	-	-
G-20D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN
-	-	-	-	-	-
G-30D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN



1 PL320 POOL D - SPLASH PAD GRAVITY PIPING PLAN
PLAN VIEW
1/4" = 1'-0"

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REGISTERED ARCHITECT JEFFREY KATZ C-20535 12/31/2023 Renewal Date STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

POOL D - SPLASH PAD GRAVITY PIPING PLAN

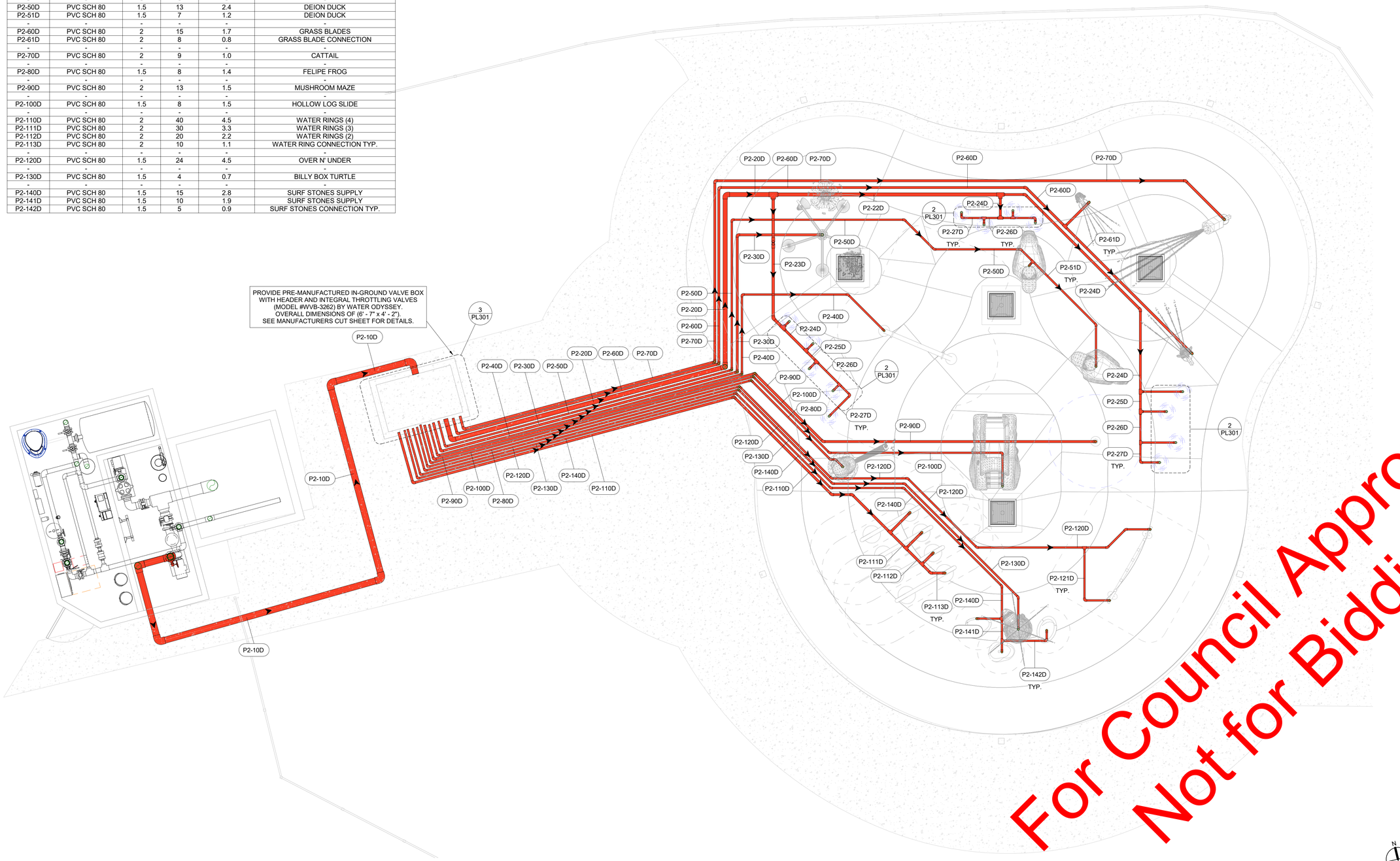
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POOL D - SPLASH PAD PIPE SCHEDULE

PIPE ID	TYPE	NPS	FLOW	VELOCITY	DESCRIPTION
		(in)	(gpm)	(fps)	
P2-10D	PVC SCH 80	6	449	5.6	WATER FEATURE SUPPLY
-	-	-	-	-	-
P2-20D	PVC SCH 80	4	195	5.6	GEYSERS SUPPLY
P2-22D	PVC SCH 80	3	120	6.0	GEYSERS SUPPLY
P2-23D	PVC SCH 80	2.5	75	5.8	GEYSERS SUPPLY
P2-24D	PVC SCH 80	2	60	6.7	GEYSERS SUPPLY
P2-25D	PVC SCH 80	2	45	5.0	GEYSERS SUPPLY
P2-26D	PVC SCH 80	1.5	30	5.6	GEYSERS SUPPLY
P2-27D	PVC SCH 80	1.5	15	2.8	GEYSER CONNECTION TYP.
-	-	-	-	-	-
P2-30D	PVC SCH 80	2	15	1.7	FILL N' SPILL
-	-	-	-	-	-
P2-40D	PVC SCH 80	2	45	5.0	ROLL A RAIL
-	-	-	-	-	-
P2-50D	PVC SCH 80	1.5	13	2.4	DEION DUCK
P2-51D	PVC SCH 80	1.5	7	1.2	DEION DUCK
-	-	-	-	-	-
P2-60D	PVC SCH 80	2	15	1.7	GRASS BLADES
P2-61D	PVC SCH 80	2	8	0.8	GRASS BLADE CONNECTION
-	-	-	-	-	-
P2-70D	PVC SCH 80	2	9	1.0	CATTAIL
-	-	-	-	-	-
P2-80D	PVC SCH 80	1.5	8	1.4	FELIPE FROG
-	-	-	-	-	-
P2-90D	PVC SCH 80	2	13	1.5	MUSHROOM MAZE
-	-	-	-	-	-
P2-100D	PVC SCH 80	1.5	8	1.5	HOLLOW LOG SLIDE
-	-	-	-	-	-
P2-110D	PVC SCH 80	2	40	4.5	WATER RINGS (4)
P2-111D	PVC SCH 80	2	30	3.3	WATER RINGS (3)
P2-112D	PVC SCH 80	2	20	2.2	WATER RINGS (2)
P2-113D	PVC SCH 80	2	10	1.1	WATER RING CONNECTION TYP.
-	-	-	-	-	-
P2-120D	PVC SCH 80	1.5	24	4.5	OVER N' UNDER
-	-	-	-	-	-
P2-130D	PVC SCH 80	1.5	4	0.7	BILLY BOX TURTLE
-	-	-	-	-	-
P2-140D	PVC SCH 80	1.5	15	2.8	SURF STONES SUPPLY
P2-141D	PVC SCH 80	1.5	10	1.9	SURF STONES SUPPLY
P2-142D	PVC SCH 80	1.5	5	0.9	SURF STONES CONNECTION TYP.



1 PL321 POOL D - SPLASH PAD ACTIVITY PIPING PLAN
PLAN VIEW
1/4" = 1'-0"

For Council Approval
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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT C-30538 Professional Engineer STATE OF CALIFORNIA
4/30/2023

5/20/2021

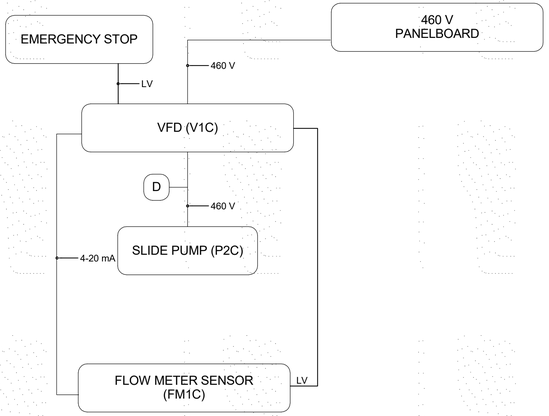
Project Number:	19285
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Drawn By:	Author

Sheet Title:

POOL D - SPLASH PAD ACTIVITY PIPING PLAN

SHEET NUMBER:

PL321



FLOW METER:

- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

NOTES:

1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

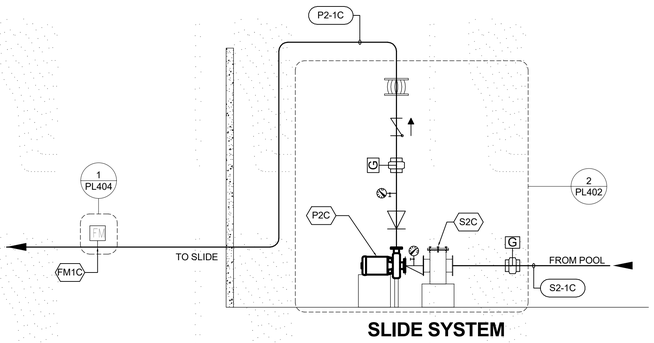
LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- DATA - CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT - LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

3 | PL400 POOL C - ELECTRICAL SCHEMATIC PLAN VIEW
12" = 1'-0"

POOL C - SLIDE PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S2-1C	PVC SCH 80	10	1,000	4.5	SLIDE PUMP SUCTION - MAIN DRAIN
-	-	-	-	-	-
P2-1C	PVC SCH 80	8	1,000	7.1	SLIDE SUPPLY



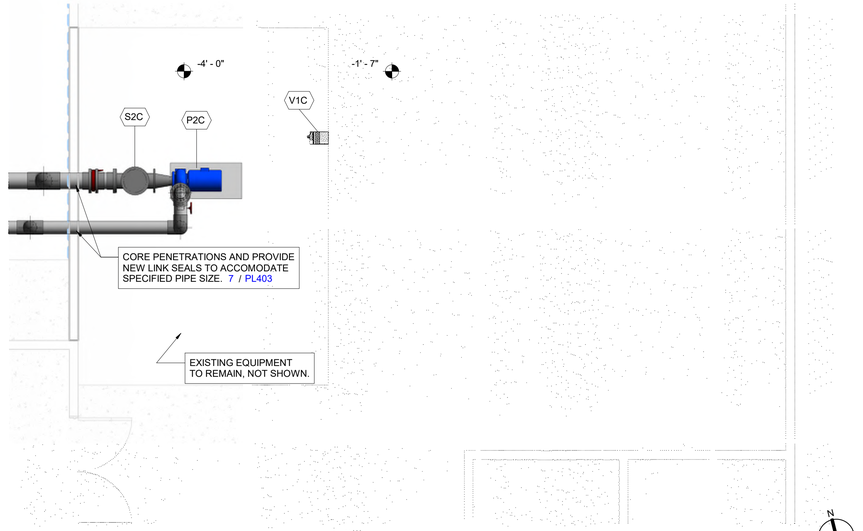
4 | PL400 POOL C - MECHANICAL SCHEMATIC DETAIL VIEW
NOT TO SCALE

POOL C - LEISURE POOL - EQUIPMENT SCHEDULE

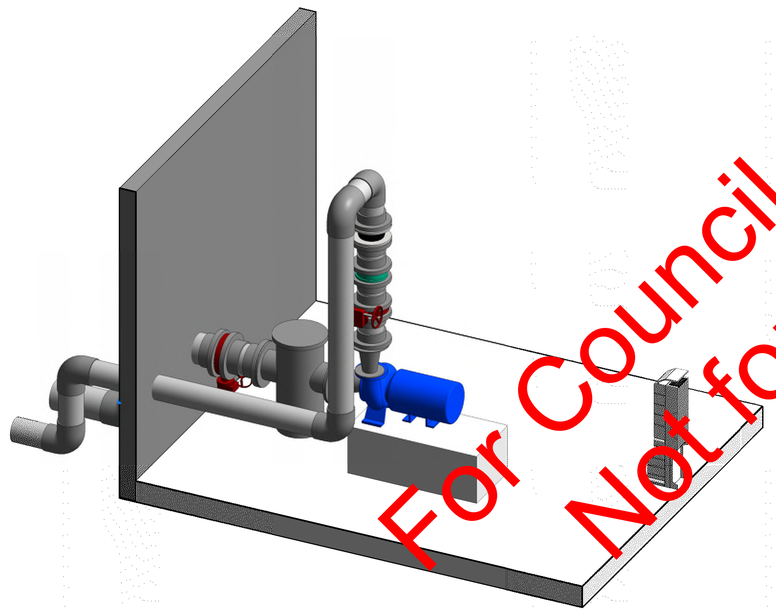
ID	ITEM	QTY.	MANUFACTURER	BASIS OF DESIGN
P2C	PUMP	1	AURORA PUMP	3801, 5 x 6 x 11 , 40 HP, 460 VOLT, 3 PHASE, 1800 RPM, 1,000 GPM, @ 90' TDH, TEFC MOTOR, END SUCTION, CLOSE COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SF), EPOXY COATED VOLUTE, APPOX. PUMP WEIGHT: 911 LBS
S2C	STRAINER	1	NEPTUNE BENSON, INC OR MER-MADE FILTER, INC.	10" STRAIGHT BASKET STRAINER, FIBERGLASS BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET. PROVIDE WITH EXTRA STAINLESS STEEL BASKET AND ECCENTRIC REDUCING PRECOAT TEE.
FM1C	FLOW METER	1	SIGNET	2551 MAG METER, INSERTION STYLE MAGNETIC FLOW SENSOR, MODEL #3-2551-P1-12. FLOW TO BE DISPLAYED ON VFD. PROVIDE WITH IRON STRAP-ON SADDLE MODEL NUMBER IR8S080 (8")
V1C	VFD	1	ABB	ABB MODEL ACH580-PDR-052A-4, 40 HP, 480 V, 3 PH INPUT. PROVIDE WITH UL TYPE 12 ENCLOSURE WITH INPUT DISCONNECT AND FUSES ONLY.

MECHANCIAL PLAN NOTES:
DIVISION 13 CONTRACTOR NOTES:

1. VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER.
2. VERIFY ALL OPENINGS, PENETRATIONS, AND ELEVATIONS AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER.
3. COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
4. REFER TO STRUCTURAL DRAWINGS FOR FUTURE CORED OPENINGS.
5. REFER TO ARCHITECTURAL PLANS FOR ACTUAL ROOM DIMENSIONS AND FINISHED FLOOR ELEVATIONS.
6. REFER TO PL200-2 FOR REINFORCEMENT AT PIPE PENETRATIONS.
7. SUPPORT PIPES PER PL405-1 THRU 7.
8. ALL SUPPORTS, BRACING, FASTENERS AND HARDWARE IN THE SURGE TANK(S) SHALL BE STAINLESS STEEL.



1 | PL400 POOL C - MECHANICAL EQUIPMENT ROOM PLAN VIEW
1/4" = 1'-0"



2 | PL400 POOL C - SLIDE MECHANICAL ROOM DETAIL VIEW
NOT TO SCALE

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY R. KATZ C-20538 4/30/2023 Renewal Date STATE OF CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

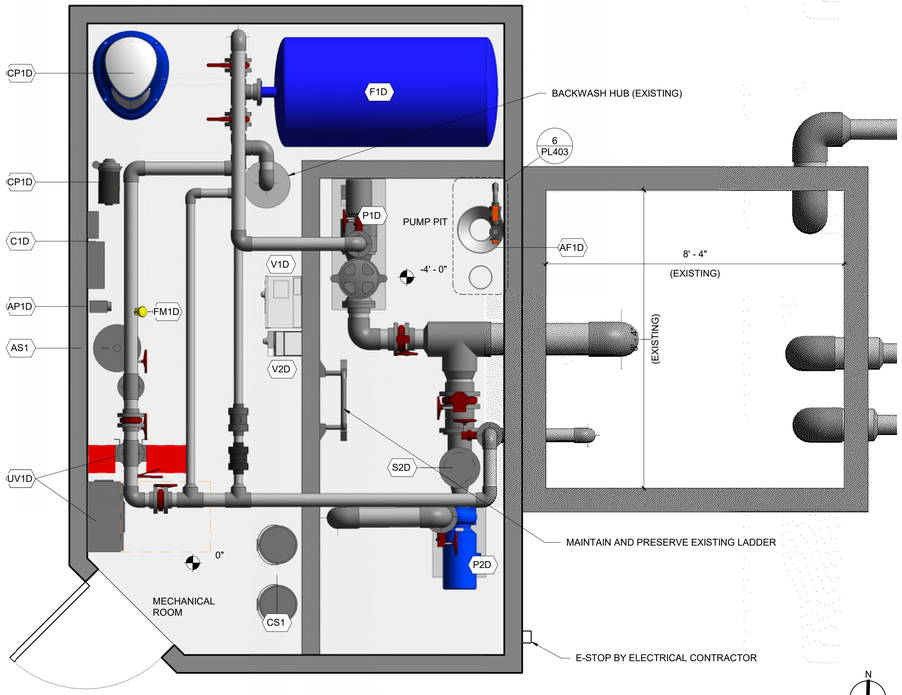
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POOL C - MECHANICAL EQUIPMENT PLAN

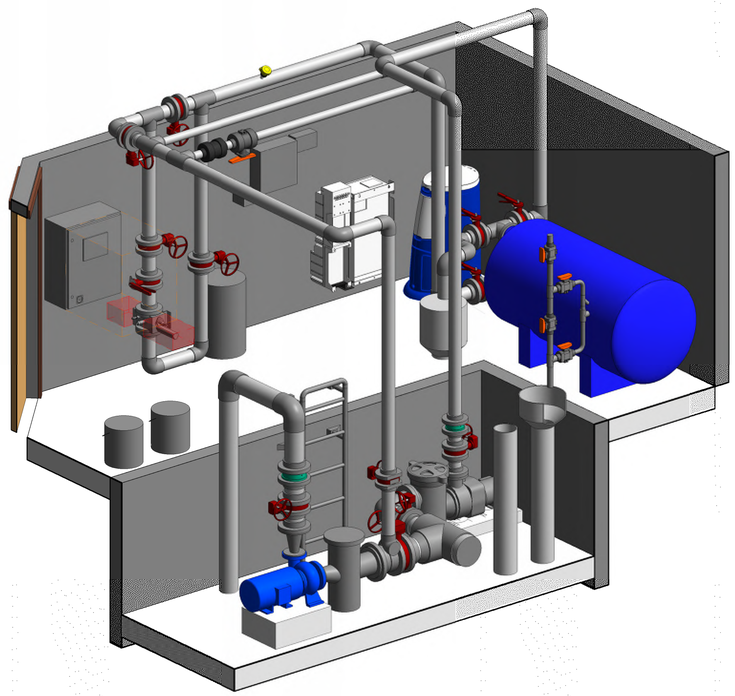
SHEET NUMBER:

PL400

For Council Approval
Not for Bidding



1 PL401 POOL D - MECHANICAL EQUIPMENT ROOM PLAN VIEW
1/2" = 1'-0"



2 PL401 POOL D - SPRAY PAD MECHANICAL ROOM PLAN VIEW

SEISMIC DESIGN CRITERIA

SEISMIC DESIGN CATEGORY D

Ss = 0.451
S1 = 0.225
Sms = 0.649
Sds = 0.433

MECHANCIAL PLAN NOTES:
DIVISION 13 CONTRACTOR NOTES:

1. VERIFY EQUIPMENT PAD HEIGHT REQUIREMENTS FROM MANUFACTURER AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER.
2. VERIFY ALL OPENINGS, PENETRATIONS, AND ELEVATIONS AND PROVIDE SHOP DRAWINGS TO POOL ENGINEER.
3. COORDINATE ALL PIPING AND EMBEDMENTS WITH AFFECTED TRADES.
4. REFER TO STRUCTURAL DRAWINGS FOR FUTURE CORED OPENINGS.
5. REFER TO ARCHITECTURAL PLANS FOR ACTUAL ROOM DIMENSIONS AND FINISHED FLOOR ELEVATIONS.
6. REFER TO PL200-2 FOR REINFORCEMENT AT PIPE PENETRATIONS.
7. SUPPORT PIPES PER PL405-1 THRU 7.
8. ALL SUPPORTS, BRACING, FASTENERS AND HARDWARE IN THE SURGE TANK(S) SHALL BE STAINLESS STEEL.

POOL D-SPLASH PAD DATA

DESCRIPTION	QTY	UNITS	
SPLASH PAD PERIMETER	177' 10"	FEET	
WET SLAB SURFACE AREA	2,241	SQUARE FEET	
WATER FEATURE STORAGE VOLUME	2,513	GALLONS	
SURGE TANK OPERATING VOLUME	1,676	GALLONS	
TOTAL VOLUME OF WATER	4,189	GALLONS	
CIRCULATION RATE	220	GPM	
TURNOVER/VOLUME/FLOW	19 MIN.	4,189 GAL.	220 GPM
FILTRATION RATE	12.74	GPM/FT²	
BACKWASH RATE	260	GPM	

POOL D - SPRAY PAD - EQUIPMENT SCHEDULE

ID	ITEM	QTY.	MANUFACTURER	BASIS OF DESIGN
P1D	FILTRATION PUMP 1 / PL402	1	PENTAIR PUMP	EQ SERIES, EQKT500, 220 GPM @ 69' TDH, 5 HP, 460 VOLT, 3 PHASE, 60HZ, 3450 RPM, TEFC MOTOR, END SUCTION, SELF PRIMING, CLOSE COUPLED, PROVIDE WITH INTEGRAL STRAINER AND EXTRA STRAINER BASKET, APPOX. PUMP WEIGHT: 127 LBS
P2D	ACTIVITY PUMP 3 / PL402	1	AURORA PUMP	3801, 3x4x9.5 , 20 HP, 460 VOLT, 3 PHASE, 1800 RPM, 449 GPM @ 80' TDH, TEFC MOTOR, END SUCTION, CLOSE COUPLED, 316 STAINLESS STEEL IMPELLOR AND FITTED (SF), EPOXY COATED VOLUTE, APPOX. PUMP WEIGHT: 431 LBS
S2D	STRAINER	1	NEPTUNE BENSON, INC.	8x4 ECCENTRIC REDUCING BASKET STRAINER, FIBERGLASS BODY, TRANSPARENT ACRYLIC LID, STAINLESS STEEL BASKET. PROVIDE WITH EXTRA STAINLESS STEEL BASKET.
F1D	FILTER	1	NEPTUNE BENSON, INC.	SHFFG SERIES, #3660SHFFG, 36" DIAMETER HORIZONTAL FIBERGLASS TANK, 17.3 SQUARE FEET OF TOTAL SURFACE AREA, 12.74 GPM/SF (FILTER MEDIA RATE), PROVIDE WITH 3-WAY VALVE NEST AND ELECTRONIC ACTUATORS, FASTEN TO CONCRETE SLAB WITH A MINIMUM OF (4) ¾" DIAM. HILTI KWIK BOLT TZ ANCHORS (ONE ANCHOR AT EACH CORNER OF UNIT) WITH 3-1/4" MINIMUM EMBEDMENT
UV1D	U.V. CHAMBER 8 / PL402	1	EVOQUA	MODEL WF-115-4-N, 4" CONNECTIONS, 208V, 60 Hz, 1 PHASE, 1.5 kW POWER. PROVIDE WITH 4" ETS "EZ" STRAINER VALVE. USE CONCENTRIC REDUCERS TO MATCH THE "EZ" STRAINER TO THE PIPE SIZE OF THE FILTRATION MAIN AND UV UNIT.
C1D	CHEMICAL CONTROLLER 2 / PL403	1	BECS TECHNOLOGY	BECSys5 CONTROLLER: WITH CONTINUOUS MONITORING, SEE CHEMICAL CONTROLLER SPECIFICATION FOR OPTIONS.
CP1D	CHLORINATOR 4 / PL403	1	ARCH CHEMICALS	PULSAR PRECISION, 100 POUND CAPACITY, 5 TO 192 LBS/DAY OUTPUT, PROVIDE WITH ONE 1 HP RECIRCULATION PUMP, SOLENOID VALVE, AND CONNECTIONS FOR STANDARD INSTALLATION, USE PULSAR PLUS BRIQUETTES (CALCIUM HYPOCHLORITE) FOR DISINFECTANT, PROVIDE WITH EXTRA TABLET STRAINER, FASTEN TO CONCRETE SLAB WITH A MINIMUM OF (4) ¾" DIAM. HILTI KWIK BOLT TZ ANCHORS (ONE PER CORNER OF UNIT) WITH 2" MINIMUM EMBEDMENT
CS1	CHLORINE CHEMICAL STORAGE	1	CHEMICAL SUPPLIER	BUCKETS OF CALCIUM HYPOCHLORITE PROVIDED BY OWNER'S CHEMICAL SUPPLIER
AP1D	ACID CHEMICAL FEED PUMP 5 / PL403	1	STENNER	SERIES M1, #85M2, 0.8 TO 17 GALLONS PER DAY OUTPUT, 120 VOLTS, USE MURIATIC ACID FOR pH CONTROL. PROVIDE WITH WEIGHTED FOOT STRAINER.
AS1	ACID CHEMICAL STORAGE	1	CHEMICAL SUPPLIER	15 GALLON CARBOYS PROVIDED BY OWNER'S CHEMICAL SUPPLIER, SEISMIC FASTENING BY OWNER. REFER TO 1/400 FOR SEISMIC DESIGN CRITERIA
AF1D	WATER LEVEL CONTROL 6 / PL403	1	BECS TECHNOLOGY	BECSys PLX POINT SWITCH WITH SUBMERSIBLE CABLE: MODEL BECSysPLX-AS. PROVIDE WITH ASCO 8210 1.5" SLOW CLOSING SOLENOID VALVE, BRASS BODY, BUNA "N" DISC, 110 V, NORMALLY CLOSED, WATERTIGHT ENCLOSURE. NOTE: ONE LOOP POWER SUPPLY IS REQUIRED IN THE BECSsys CONTROLLER FOR THIS.
FM1D	FLOW METER 1 / PL404	1	SIGNET	2551 316 MET INSERTION STYLE MAGNETIC FLOW SENSOR, MODEL #3-2551-F, FOR FLOW TO BE DISPLAYED ON VFD. PROVIDE WITH PVC-U CLAMP-ON SADDLE MODEL NUMBER PVSS-200 (4")
V1D	VFD	1	ABB	ABB MODEL ACH580-BCA-046A-4+E205 HP, 480 V, 3 PH INPUT. PROVIDE WITH UL TYPE 1 ENCLOSURE WITH E-CLIPSE BYPASS.
V2D	VFD	1	ABB	ABB MODEL ACH580-PDR-027A-4+E20 HP, 480 V, 3 PH INPUT. PROVIDE WITH UL TYPE 12 ENCLOSURE WITH INPUT DISCONNECT AND FUSES ONLY.
SC1	CONTAINMENT PALETTE 5 / PL403		GRAINGER / ULTRATECH INTERNATIONAL	MOLDED ONE-PIECE POLYETHYLENE CONTAINMENT, MINIMUM 66-GALLON CAPACITY, MINIMUM PALLET, MIN 3,000 LB LOAD CAPACITY, SUITABLE FOR USE WITH CHEMICALS STORED. CONFORMANT TO ASTM D1998.

PREPARED BY:

GRÄEF

Project Number 2020-2000.46
Phone 414 / 259 1500

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CITY OF ROSEVILLE CALIFORNIA

No.	Description:	Date:
1	100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT BRIAN R. BEE C-20535 Renewal Date 08/31/2023 STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

POOL D - MECHANICAL EQUIPMENT PLAN

SHEET NUMBER:

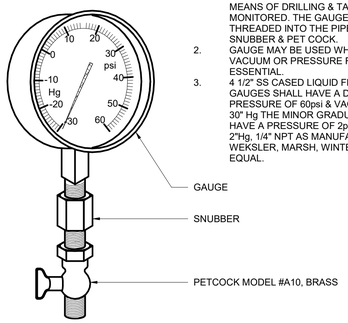
PL401

REGISTERED PROFESSIONAL ENGINEER BRENT M. SANDERS 5736 EXP. 6/30/23 STRUCTURAL STATE OF CALIFORNIA

8/20/21

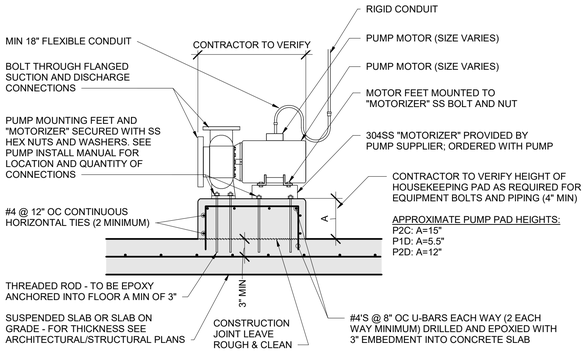
"Structural Scope of Work"

For Construction Approval
Not for Bidding



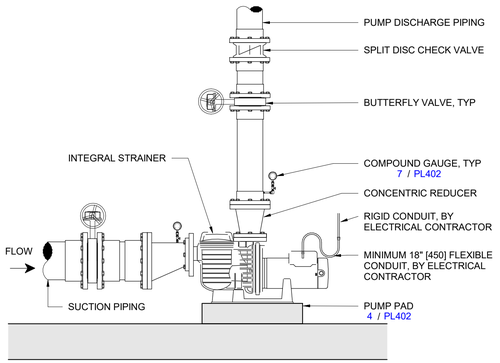
NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING & TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER & PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.
3. 4 1/2" SS CASED LIQUID FILLED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi & VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi & VACUUM OF 2"Hg. 1/4" NPT AS MANUFACTURED BY WEKSLER, MARSH, WINTERS OR APPROVED EQUAL.

7 | PL402 COMPOUND GAUGE
DETAIL VIEW
NOT TO SCALE



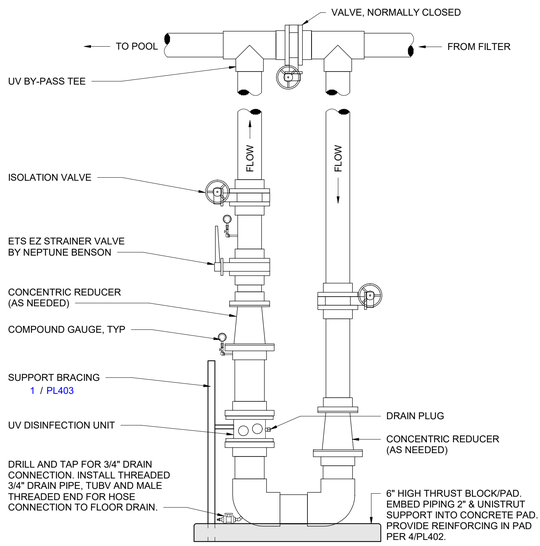
NOTES:
1. PAD SIZE SHALL BE MIN INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION, AND THREAD PROJECTION OF THE ALL THREAD ROD SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER / INSTALLING CONTRACTOR, ALL THREAD ROD SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE PAD IS BEING POURED.
3. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE. EQUIPMENT BASES SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. SIZES AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
4. PROVIDE SUPPORT FOR PUMP SUCTION AND DISCHARGE PIPING WHILE ALLOWING FOR PUMP REMOVAL.
5. FINAL INSTALLATION SHALL ALLOW REMOVAL OF MOTOR AND PUMP IMPELLER WITHOUT REMOVAL OF PIPING OR ELECTRICAL CONNECTIONS.

4 | PL402 PUMP PAD
DETAIL VIEW
NOT TO SCALE



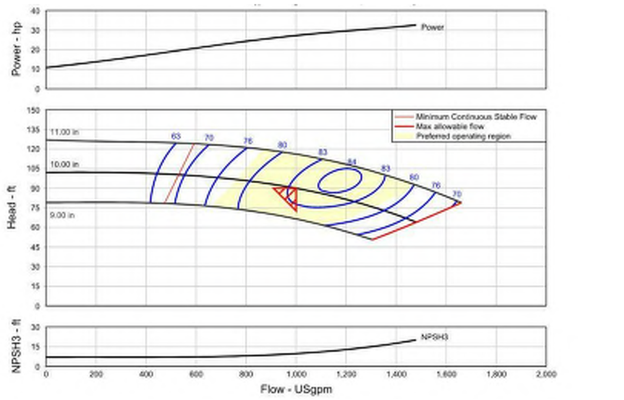
NOTES:
1. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
2. INSTALL STRAINER OR REDUCER WITH 1/4" [6] FPT GAUGE CONNECTION AS CLOSE TO PUMP AS POSSIBLE.
3. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

1 | PL402 PUMP INSTALLATION - SAND FILTER
DETAIL VIEW
NOT TO SCALE

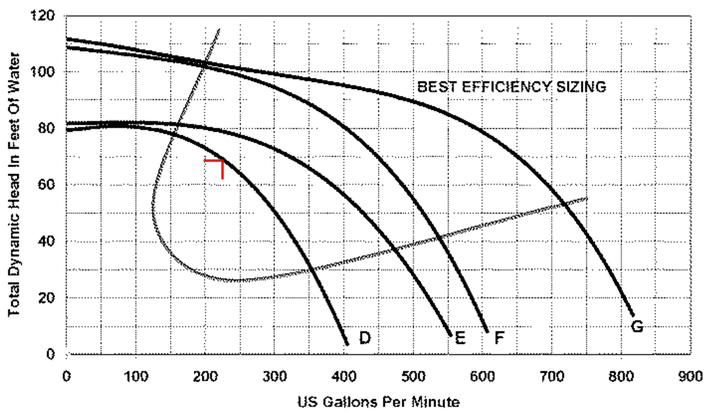


NOTES:
1. ALL PIPING & FITTINGS TO & FROM UV UNIT TO THE "UV BY-PASS TEES" SHALL BE SCH 80 PVC.
2. ALL PIPE REDUCTIONS SHALL BE WITH A CONCENTRIC REDUCER AS SHOWN. NO BUSHINGS ALLOWED.
3. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR. CONTROL BOX SHALL BE INSTALLED WITHIN 10 FT OF UNIT, WHENEVER POSSIBLE.
4. PROVIDE CLEARANCE AS REQUIRED ADJACENT TO UV UNIT FOR REMOVAL & REPLACEMENT OF UV LAMPS.
5. DO NOT INSTALL VALVES DIRECTLY TO CHAMBER BODY.
6. UV UNIT SHALL BE PROPERLY SUPPORTED & BRACED. SEE REFERENCED "UV SUPPORT & BRACING DETAIL".

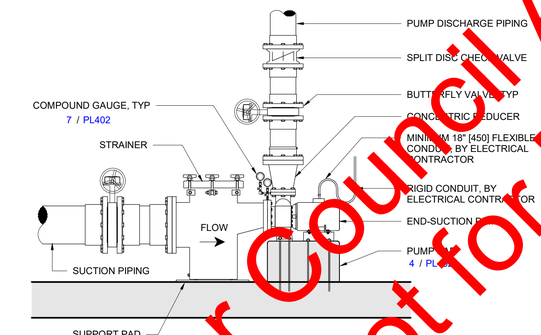
8 | PL402 UV DISINFECTION
DETAIL VIEW
NOT TO SCALE



5 | PL402 P2C PUMP CURVE
DETAIL VIEW
NOT TO SCALE



6 | PL402 P1D PUMP CURVE
DETAIL VIEW
NOT TO SCALE



NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

2 | PL402 PUMP INSTALLATION - SLIDE
DETAIL VIEW
NOT TO SCALE

NOTES:
1. REFER TO EQUIPMENT SCHEDULES FOR A STRAINER TYPE AND SIZE.
2. SUPPLY AND INSTALL ECCENTRIC REDUCER ON SUCTION SIDE AS NECESSARY.
3. INSTALL COMPOUND GAUGES USING 1/4" NPT TAPS SUPPLIED ON THE PUMP SUCTION AND DISCHARGE.
4. INSTALL CHECK VALVE PER MANUFACTURER'S RECOMMENDATIONS.

3 | PL402 ACTIVITY PUMP INSTALLATION
DETAIL VIEW
NOT TO SCALE

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REGISTERED ARCHITECT JEFFREY B. KATZ C-30536 STATE OF CALIFORNIA
1/30/2023
Renewal Date
5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

MECHANICAL DETAILS

SHEET NUMBER:

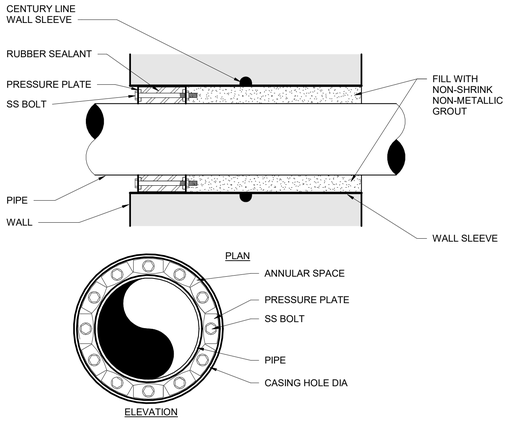
PL402

For Council Approval
Not for Bidding

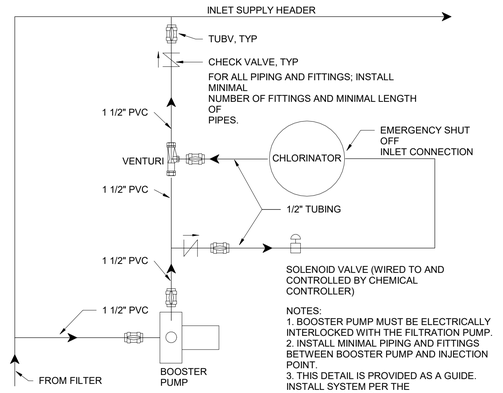
PREPARED BY:

GRAEF
Project Number 2020-2000.46
Phone 414 / 259 1500

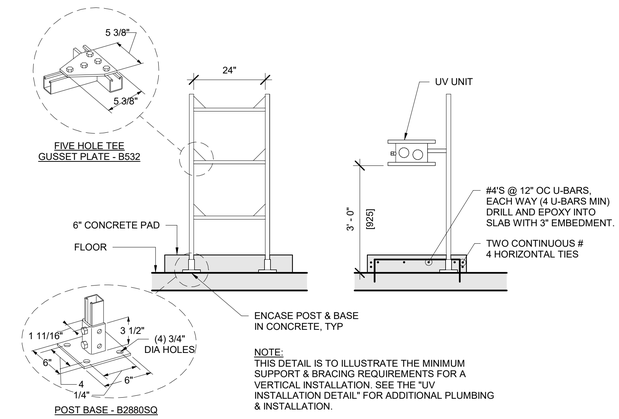
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6/20/21
"Structural Scope of Work"



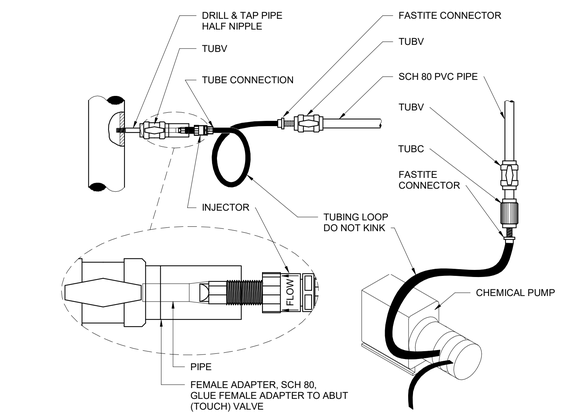
7 | WALL SLEEVE / LINK SEAL DETAIL VIEW
PL403 | NOT TO SCALE



4 | PULSAR PRECISION DETAIL VIEW
PL403 | NOT TO SCALE

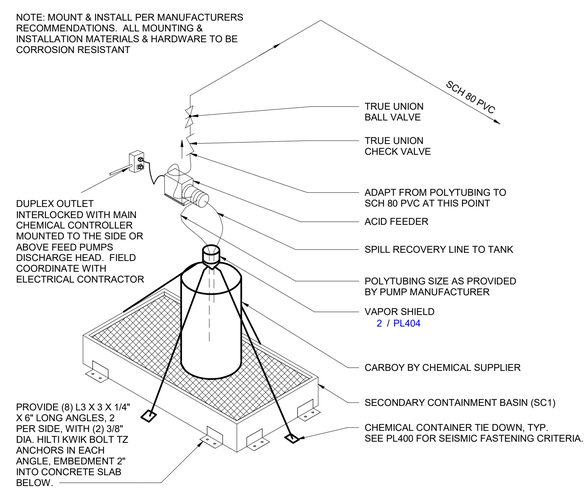


1 | UV SUPPORT & BRACING DETAIL VIEW
PL403 | NOT TO SCALE

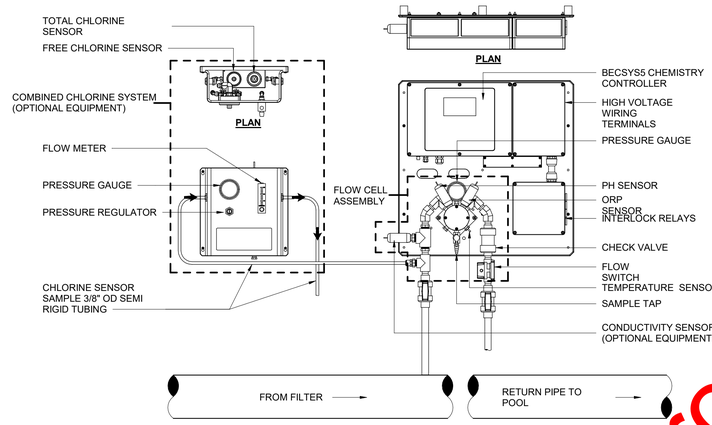


NOTE: FOR PIPING USE FASTITE CONNECTOR OR SIMILAR COMPRESSION FITTING.

8 | CHEMICAL INJECTION PLAN VIEW
PL403 | NONE

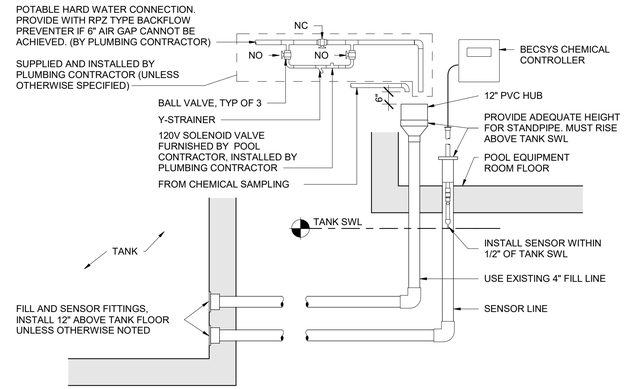


5 | ACID ISOMETRIC DETAIL VIEW
PL403 | NOT TO SCALE

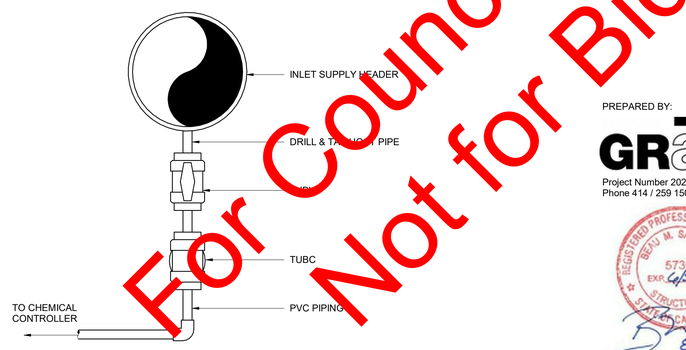


NOTES:
1. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AS REQUIRED FOR WALL TYPE.
2. INTERLOCK CHEMICAL CONTROL RELAYS WITH FILTRATION PUMP.
3. SEE CHEMICAL CONTROLLER SPECIFICATIONS FOR REQUIRED OPTIONAL EQUIPMENT.
4. RIGIDLY SECURE BACK PANEL TO BUILDING WALL, APPROXIMATELY 5'-8" ABOVE FINISHED FLOOR, IN LOCATION INDICATED IN PLAN.
5. CHEMICAL SAMPLING STREAMS SHALL TERMINATE AT THE AUTOFILL WITH 6" AIR GAP.

2 | CHEMICAL CONTROLLER DETAIL VIEW
PL403 | NOT TO SCALE



6 | AUTOFILL/WATER LEVEL CONTROL PLAN VIEW
PL403 | NONE



3 | CHEMICAL SAMPLING DETAIL VIEW
PL403 | NOT TO SCALE

For Council Approval
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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-20538 4/30/2023 Renewal Date STATE OF CALIFORNIA

8/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

MECHANICAL DETAILS

SHEET NUMBER:

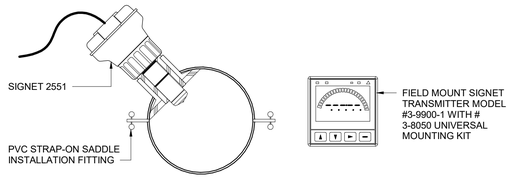
PL403

PREPARED BY:
GRAEF
Project Number 2020-2000.46
Phone 414 / 259 1500

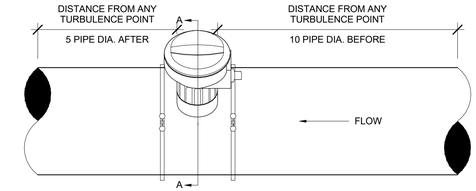
REGISTERED PROFESSIONAL ENGINEER BRIAN M. SANDERS 5736 EXP. 6/30/23 STRUCTURAL STATE OF CALIFORNIA

6/30/21

"Structural Scope of Work"



SECTION A-A



ELEVATION

NOTES:
1. INSTALL PIPE SUCH THAT AIR CANNOT GET TRAPPED IN AREA OF SENSOR. DO NOT INSTALL IN PIPES WITH FLOW MOVING DOWNWARD OR IN HORIZONTAL SECTIONS OF PIPE THAT ARE HIGHER THAN ADJACENT HORIZONTAL PIPE.
2. FOR HORIZONTAL PIPE INSTALLATIONS, INSTALL FLOWMETER FACING UPWARD AT A 45° ANGLE TO MINIMIZE ADVERSE EFFECTS OF AIR POCKETS AND SEDIMENT.
3. FIELD MOUNT TRANSMITTER APPROXIMATELY 4'-6" (1350) ABOVE FINISHED FLOOR OR GRADE UTILIZING THE #3-8050 UNIVERSAL MOUNTING KIT.

1 PL404 FLOW METER DETAIL VIEW
NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL INSTALL A VAPOR SHIELD, BY AQUATIC COMMERCIAL INDUSTRIES, ON EACH ACID TANK CONNECTED TO A FEED PUMP AS DETAILED ABOVE. VAPOR SHIELD SHALL PREVENT RELEASE OF ALL CHEMICAL VAPORS WHILE ALLOWING LIQUID REMOVAL BY THE PUMP.
2. THE VAPOR SHIELD SHALL BE SUPPLIED WITH SUCTION TUBING, SHALL INCLUDE NO METALLIC PARTS, AND SHALL REQUIRE NO ASSEMBLY, EXCEPT ADJUSTMENT OF THE SUCTION TUBE SIZE.

2 PL404 VAPOR SHIELD DETAIL VIEW
NOT TO SCALE

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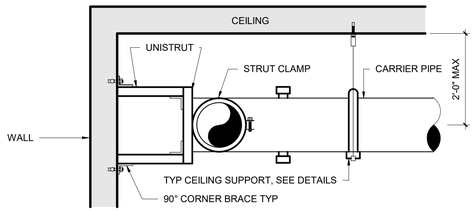
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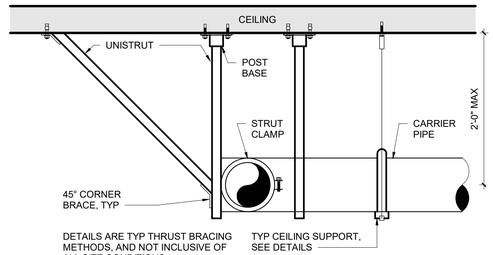
SHEET NUMBER:

PL404



DETAILS ARE TYP THRUST BRACING METHODS, AND NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

7 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE



DETAILS ARE TYP THRUST BRACING METHODS, AND NOT INCLUSIVE OF ALL SITE CONDITIONS. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF BRACING METHODS FOR APPROVAL.

4 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE

BASIS OF DESIGN FOR SUUPORT OF PIPING:
2016 CALIFORNIA BUILDING CODE, CHAPTER 16; ASCE 7-10, CHAPTER 13 - SEISMIC DESIGN OF NONSTRUCTURAL COMPONENTS

MAX ALLOWABLE SUPPORT SPACING FOR PVC PIPE (IN FT)										
NOMINAL PIPE SIZE	SCHEDULE 40 TEMPERATURE (°F)					SCHEDULE 80 TEMPERATURE (°F)				
	60°	80°	100°	120°	140°	60°	80°	100°	120°	140°
1/2"	4.5	4.5	4	2.5	2.5	5	4.5	4.5	3	2.5
3/4"	5	4.5	4	2.5	2.5	5.5	5	4	3	2.5
1"	5.5	5	4.5	3	2.5	6	5.5	5	3.5	3
1 1/4"	5.5	5.5	5	3	3	6	6	5.5	3.5	3
1 1/2"	6	5.5	5	3.5	3	6.5	6	5.5	3.5	3.5
2"	6	5.5	5	3.5	3	7	6.5	6	4	3.5
2 1/2"	7	6.5	6	4	3.5	7.5	7.5	6.5	4.5	4
3"	7	7	6	4	3.5	8	7.5	7	4.5	4
4"	7.5	7	6.5	4.5	4	9	8	7.5	5	4.5
6"	8.5	8	7.5	5	4.5	10	9.5	9	6	5
8"	9	8.5	8	5	4.5	11	10.5	9.5	6.5	5.5
10"	10	9	8.5	5.5	5	12	11	10	7	6
12"	11.5	10.5	9.5	6.5	5.5	12	11	10	7	6

1 PL405 PIPE SUPPORT SCHEDULE DETAIL VIEW
NOT TO SCALE

PIPING DISTRIBUTION SYSTEM BRACING NOTE

PIPING DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E):

MP	MD	PP	E	
☐	☐	☐	☐	OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
☐	☐	☐	☐	OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #0043-13.
☒	☐	☐	☐	OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSPHD EDITION, NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL _____ AND CONNECTION LEVEL _____ FOR THE PROJECT AND CONDITIONS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 13, 26, AND 30.

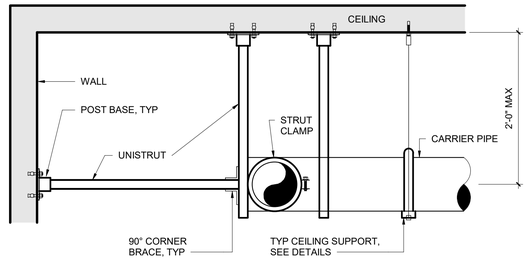
1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WATER) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS, OR WATER.
3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

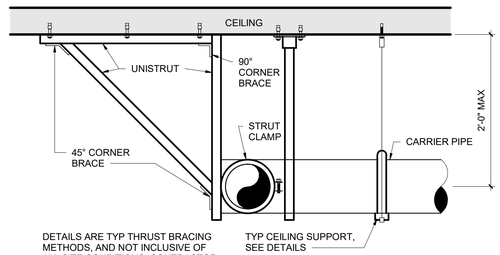
FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

8 PL405 PIPE SUPPORT NOTES PLAN VIEW
1" = 1'-0"



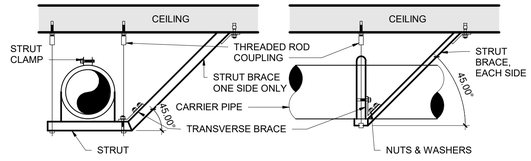
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5 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE



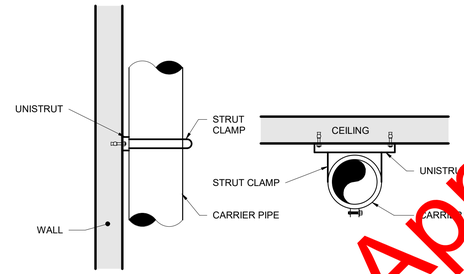
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6 PL405 PIPE THRUST BRACING DETAIL VIEW
NOT TO SCALE



NOTES:
1. DETAILS ARE TYP SUPPORT METHODS & NOT INCLUSIVE OF ALL SITE CONDITIONS.
2. ALL PIPING SHALL BE RIGIDLY SUPPORTED LATERALLY & VERTICALLY. SUPPORT SYSTEM SHALL PROVIDE ZERO MOVEMENT IN PIPING DURING ALL OPERATING CONDITIONS.
3. PROVIDE THRUST RESTRAINT AT ALL HORIZONTAL/HORIZONTAL, HORIZONTAL/VERTICAL, & VERTICAL/HORIZONTAL CHANGES IN DIRECTION.
4. SEE DIVISION 13 SPECIFICATIONS FOR ADDITIONAL SUPPORT REQUIREMENTS & MATERIALS
5. SEE PIPE SUPPORT TABLE ON DRAWINGS.

2 PL405 PIPE SUPPORT DETAIL VIEW
NOT TO SCALE



NOTES:
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3 PL405 PIPE SUPPORT DETAIL VIEW
NOT TO SCALE

PREPARED BY:

GRÄEF

Project Number 2020-2000.46
Phone 414 / 259 1500

REGISTERED PROFESSIONAL ENGINEER BEAU M. SANDERS 5736 EXP. 6/30/23 STRUCTURAL STATE OF CALIFORNIA
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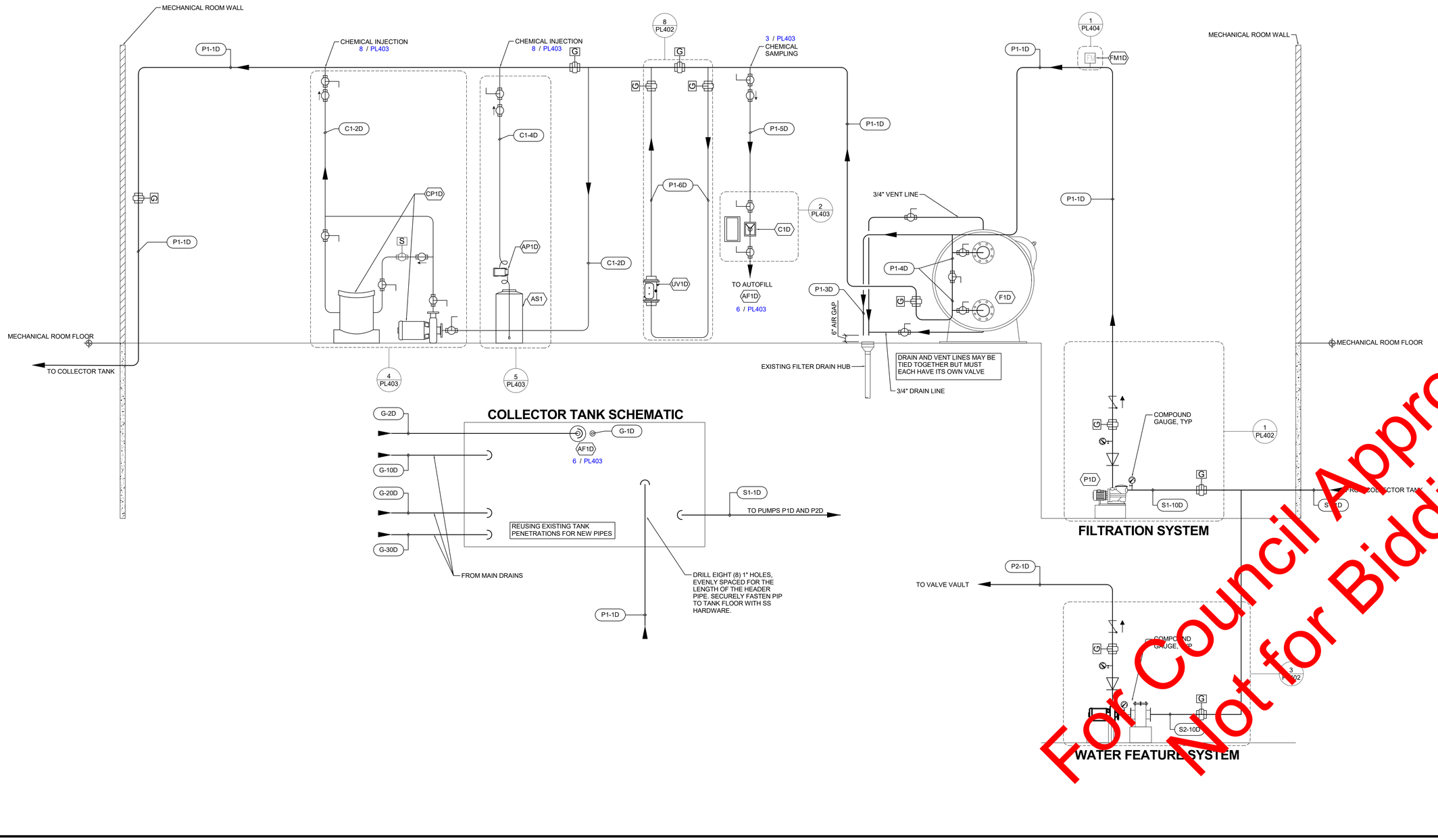
PL405

POOL D - SPLASH PAD PIPE SCHEDULE

PIPE ID	TYPE	NPS (in)	FLOW (gpm)	VELOCITY (fps)	DESCRIPTION
S1-1D	PVC SCH 80	10	669	3.0	PUMP SUCTION - SURGE TANK
S1-10D	PVC SCH 80	6	220	2.8	FILTRATION PUMP SUCTION - SURGE TANK
-	-	-	-	-	-
P1-1D	PVC SCH 80	4	220	6.3	FILTRATION SUPPLY
P1-3D	PVC SCH 80	4	260	7.4	FILTER BACKWASH
P1-4D	PVC SCH 80	4	220	6.3	FILTER FACE PIPING
P1-5D	PVC SCH 80	0.75	10	7.8	CHEMICAL SAMPLING
P1-6D	PVC SCH 80	4	220	6.3	UV LOOP
-	-	-	-	-	-
C1-2D	PVC SCH 80	1.5	0	-	CAL HYPO LOOP
C1-4D	PVC SCH 80	0.5	0	-	ACID INJECTION
-	-	-	-	-	-
G-10D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN
G-20D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN
G-30D	PVC SCH 40	6	150	1.7	SPLASHPAD DRAIN
-	-	-	-	-	-
P2-10D	PVC SCH 80	6	449	5.6	WATER FEATURE SUPPLY
-	-	-	-	-	-
S2-10D	PVC SCH 80	8	449	3.2	WATER FEATURE PUMP SUCTION - SURGE TANK
-	-	-	-	-	-
G-1D	PVC SCH 40	2	0	0.0	SENSOR
G-2D	PVC SCH 40	4	0	0.0	FILL

POOL MECHANICAL PIPING SCHEMATIC NOTES:

1. SEE PL400 FOR EQUIPMENT LOCATIONS.
2. SUPPORT PIPES PER DETAILS PL405-1 THRU 7.
3. SEE DETAIL PL200-2 FOR REINFORCING AT PENETRATIONS.
4. ARROWS DENOTE DIRECTION OF FLOW.
5. NOTE: THE INTENT OF THIS SCHEMATIC IS NOT TO BE INCLUSIVE OF ALL VALVES OR FITTINGS REQUIRED FOR THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ALL VALVES AND FITTINGS REQUIRED.
6. THIS DRAWING IS FOR SCHEMATIC USE ONLY!



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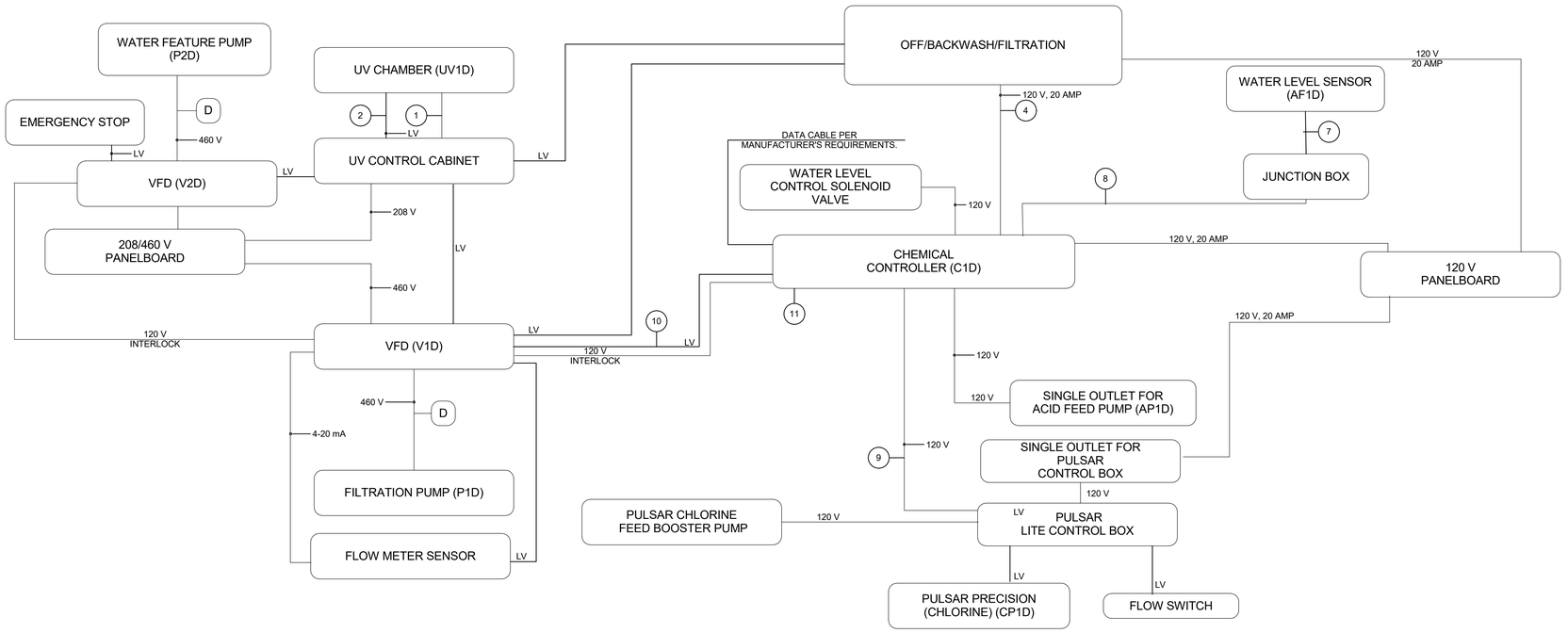
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Checked By:	JRB
Drawn By:	KMD

Sheet Title:

POOL D - MECHANICAL SCHEMATIC

SHEET NUMBER:

PL500



SEQUENCE OF OPERATIONS - SWIMMING POOL WITH MANUAL BACKWASH SAND FILTER SYSTEM

FILTRATION PUMP MOTOR STARTER SELECTOR SWITCH ("OFF/BACKWASH/FILTRATION"):

- A THREE POSITION SELECTOR SWITCH SHALL BE PROVIDED FOR THE MOTOR STARTER/VFD WITH POSITIONS LABELED "OFF", "BACKWASH", AND "FILTRATION".
- INTERLOCK WATER FEATURE PUMP VFD WITH FILTRATION PUMP VFD. WATER FEATER PUMP MUST DEACTIVATE WHEN FILTRATION PUMP IS NOT OPERATING.

"FILTRATION" POSITION:

- PLACE THE SWITCH IN THE "FILTRATION" POSITION FOR THE NORMAL FILTRATION OPERATING MODE OF THE SYSTEM.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "FILTRATION" POSITION, THE FILTRATION PUMP SHALL RUN AT DESIGN FLOW (FREQUENCY) AND THE CHEMICAL CONTROLLER SHALL BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS.
- THE ACTUAL FLOW INFORMATION SHALL BE PROVIDED TO THE VFD BY THE FM TRANSMITTER. THE VFD SHALL ADJUST FREQUENCY AS REQUIRED TO ACHIEVE SYSTEM DESIGN FLOW.
- THE CHEMICAL CONTROLLER SHALL BE WIRED TO THE CHEMICAL FEED OUTLETS AND SHALL ENERGIZE/DE-ENERGIZE THESE OUTLETS BASED UPON POOL WATER CHEMISTRY..
- THE ACID FEED PUMP IS POWERED ON/OFF BY THE CHEMICAL CONTROLLER PH FEED OUTLET.
- IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED OUTLETS AND THE POOL HEATER AND WATER FEATURE PUMP SHALL BE INACTIVE.

"BACKWASH" POSITION:

- PLACE THE SWITCH IN THE "BACKWASH" POSITION WHEN BACKWASHING THE FILTERS.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "BACKWASH" POSITION, THE FILTRATION PUMP SHALL RUN, BUT THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

"OFF" POSITION:

- PLACE THE SWITCH IN THE "OFF" POSITION TO TURN THE PUMP AND FILTRATION SYSTEM OFF.
- WITH THE FILTRATION PUMP SELECTOR SWITCH IN THE "OFF" POSITION, THE FILTRATION PUMP SHALL BE OFF AND THE CHEMICAL CONTROLLER SHALL NOT BE CAPABLE OF ENERGIZING THE CHEMICAL FEED SYSTEM OUTLETS AND THE POOL HEATER SHALL BE INACTIVE.

CHEMICAL CONTROLLER & CHEMICAL FEED OUTLETS:

- THE CHEMICAL CONTROLLER CPU SHALL BE POWERED AT ALL TIMES.
- THE CHEMICAL FEED OUTLETS SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP LOSES POWER WHILE IN THE "FILTRATION" MODE, THE IN-LINE FLOW SWITCH IS NOT MADE OR THE SELECTOR SWITCH IS IN THE OFF OR BACKWASH POSITIONS; THE FEED OUTLETS ARE INACTIVE.
- CHEMICAL CONTROLLER FEED OUTLETS ENERGIZES / DE-ENERGIZES SANITIZER AND pH FEED BASED UPON POOL WATER CHEMISTRY.

CHEMICAL FEED PUMPS

- THE CHEMICAL FEED PUMPS ARE ENERGIZED BY THE CHEMICAL FEED OUTLETS.

PULSAR CHLORINE FEEDER:

- THE PULSAR CONTROL BOX SHALL BE POWERED AT ALL TIMES.
- THE PULSAR FLOW SWITCH IS USED TO PROVE FLOW TO THE PULSAR CONTROL BOX. IF NO FLOW IS DETECTED, THE CHLORINATOR AND PULSAR CHLORINE FEED BOOSTER PUMP WILL BE DEACTIVATED.
- THE FILTRATION PUMP AND PULSAR CHLORINE FEED BOOSTER PUMP SHALL BE INTERLOCKED SUCH THAT IF THE FILTRATION PUMP IS NOT RUNNING, THE PULSAR CHLORINE FEED BOOSTER PUMP SHALL BE DEACTIVATED .
- THE PULSAR CONTROL BOX RECEIVES FEED/NO FEED SIGNALS FROM THE CHEMICAL CONTROLLER BASED ON POOL WATER CHEMISTRY.

FLOW METER:

- WHEN FLOW METER POWER SUPPLY IS ENERGIZED, THE FLOW METER SENSOR SHALL PROVIDE THE FLOW READOUT IN GPM.
- THE FLOW METER SHALL PROVIDE FLOW DATA TO THE INDICATED VFD AND CONTROL SPEED OF THE VFD BASED ON FLOW.

ULTRAVIOLET (UV) DISINFECTION UNIT:

- THE UV UNIT IS NORMALLY ON.
- THE UV UNIT SHALL BE INTERLOCKED SUCH THAT IF THE SELECTOR SWITCH IS IN THE BACKWASH POSITION THE UV SHALL BE TURNED OFF.
- THE UV NORMALLY RUNS IN VARIABLE POWER MODE.
- THE UV UNIT SHALL BE INTERLOCKED SUCH THAT IF THE DOSAGE RATE IS NOT ACHIEVED THE ACTIVITY PUMP SHALL NOT BE POWERED.

POOL EQUIPMENT OPERATING MODES

FILTRATION SELECTOR SWITCH POSITION	FILTRATION PUMP	WATER FEATURE PUMP	CHEMICAL CONTROLLER	CHLORINE FEED	ACID FEED	UV
OFF	O	O	X	O	O	O
BACKWASH	X	O	X	O	O	O
FILTRATION	X	X	X	X	X	X

"X" INDICATES THE EQUIPMENT IS ENERGIZED/RUNNING.
"O" INDICATES THE EQUIPMENT IS NOT ENERGIZED.

NOTES:

1. LOW VOLTAGE <=24V. ALL LOW VOLTAGE WIRING IS SUPPLIED, INSTALLED AND CONNECTED BY THE POOL CONTRACTOR.
2. IF CONDUIT IS REQUIRED BY CODE FOR LOW VOLTAGE WIRING, THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. IF CODE REQUIRES THAT LOW VOLTAGE WIRING IS INSTALLED BY A LICENSED ELECTRICAL CONTRACTOR THEN THIS MUST BE SPECIFIED BY THE ELECTRICAL CONSULTANT.
4. CONDUIT, WIRE SIZES, AND SHIELDING REQUIREMENTS SHALL BE DETERMINED & SPECIFIED BY THE ELECTRICAL CONSULTANT AS NEEDED PER LOCAL BUILDING AND ELECTRICAL CODE REQUIREMENTS.
5. THIS SCHEMATIC DRAWING IS NOT AN ELECTRICAL INSTALLATION DIAGRAM AND IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE POOL CONTRACTOR TO COORDINATE ALL INTERLOCKS WITH THE ELECTRICAL CONTRACTOR. THE POOL CONTRACTOR IS RESPONSIBLE TO PROVIDE AN OPERATING SYSTEM PER THE SEQUENCE OF OPERATIONS.

KEYNOTES: (#)

1. WIRING (LAMP POWER CORD) FURNISHED WITH UV UNIT AND INSTALLED BY THE ELECTRICAL CONTRACTOR. FINAL CONNECTIONS TO UV CHAMBER AND CONTROL CABINET BY POOL CONTRACTOR
2. FURNISHED WITH UV UNIT AND INSTALLED BY POOL CONTRACTOR
3. NOT USED.
4. POWER FOR THE CHEMICAL FEEDERS . WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH, OR THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL INACTIVE CHEMICAL FEED TO THE SYSTEM.
5. NOT USED.
6. NOT USED.
7. SENSOR CABLE FROM WATER LEVEL SENSOR. FURNISHED WITH WATER LEVEL SENSOR AND INSTALLED BY POOL CONTRACTOR.
8. CONDUCTOR CABLE CONTAINS POWER AND SIGNAL CABLES. COORDINATE REQUIREMENTS WITH WATER LEVEL SENSOR AND CHEMICAL CONTROLLER MANUFACTURERS.
9. WHEN FILTER SELECTOR SWITCH POSITION IS OFF, BACKWASH MODE OF THE FILTRATION PUMP LOSES POWER WHILE IN FILTRATION MODE, THIS CONNECTION SHALL INACTIVE PULSAR CHLORINE FEED BOOSTER PUMP.
10. VFD ANALOG OUTPUT REPEAT FLOW METER DATA TO CHEMICAL CONTROLLER.
11. A FLOW CELL WITH SHUT-OFF SWITCH SHALL BE PRESSURE FED AND WIRED TO THE CHEMICAL CONTROLLER. POOL CONTRACTOR SHALL ASSURE CHEMICAL CONTROLLER FLOW CELL ASSEMBLY IS WORKING PROPERLY AND DEACTIVATES CHEMICAL FEED UNDER A NO FLOW CONDITION.

LEGEND:

- LOW VOLTAGE
- LINE VOLTAGE
- DATA - CONTRACTOR TO COORDINATE WITH EQUIPMENT REQUIREMENTS
- (D) DISCONNECT TO BE LOCATE AT EQUIPMENT PER CODE REQUIREMENTS

For Council Approval
Not for Bidding

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PROJECT:

CITY OF ROSEVILLE

ROSEVILLE AQUATICS COMPLEX

3015 WOODCREEK OAKS BLVD.ROSEVILLE, CA 95747

CITY OF ROSEVILLE CALIFORNIA

Description:	Date:
100% CDs / Bid Set	08/20/21

REGISTERED ARCHITECT JEFFREY KATZ C-20538 4/30/2023 CALIFORNIA

5/20/2021

Project Number:	19285
Approved By:	JRB
Checked By:	JRB
Drawn By:	KMD

Sheet Title:

POOL D - ELECTRICAL SCHEMATIC

SHEET NUMBER:

PL510