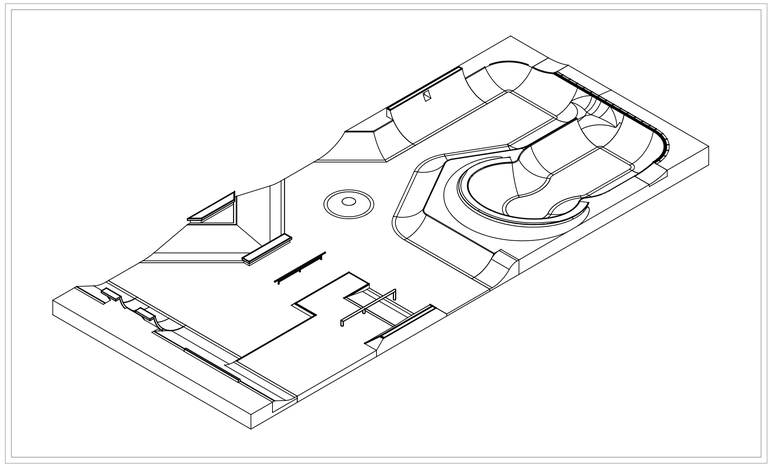
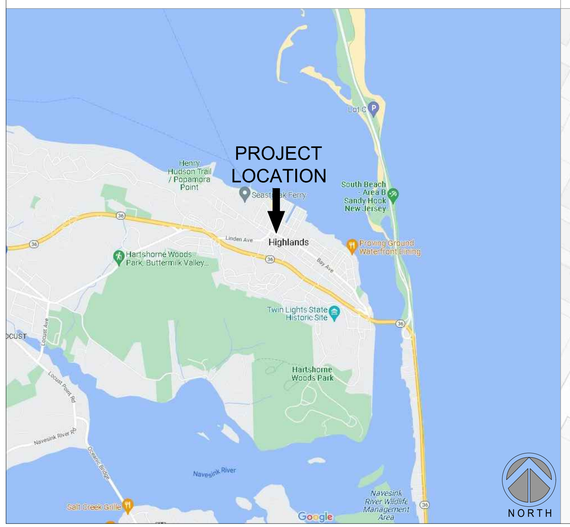
CONSTRUCTION PLAN SET
PREPARED FOR
SNUG HARBOR SKATEPARK



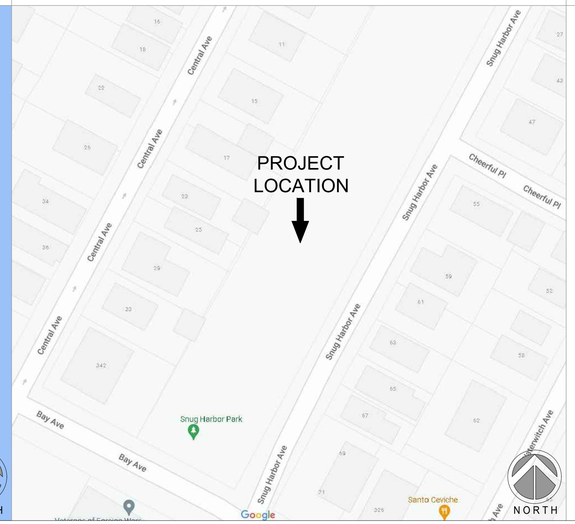
CITY OF HIGHLANDS, NJ

PLAN DATE IDENTIFIER
November 2, 2022
DATE OF LAST REVISIONS

VICINITY MAP



LOCATION MAP



PROJECT INFORMATION

OWNER/ DEVELOPER
BOROUGH OF HIGHLANDS, NJ
42 SHORE DRIVE
HIGHLANDS, NJ 07732

SITE ADDRESS
SNUG HARBOR AVE & BAY AVE
HIGHLANDS, NJ 07732

SHEET INDEX

811 Know what's below. Call before you dig. 1-800-272-1000 NJ

SPOHN RANCH SKATEPARKS
DESIGN. BUILD. COME TOGETHER.
6824 S. CENTINELA AVE.- LOS ANGELES, CA 90230
OFFICE (626) 330-5803 ~ FAX (626) 330-5503

REVISIONS

NO	DATE	DESCRIPTION	BY
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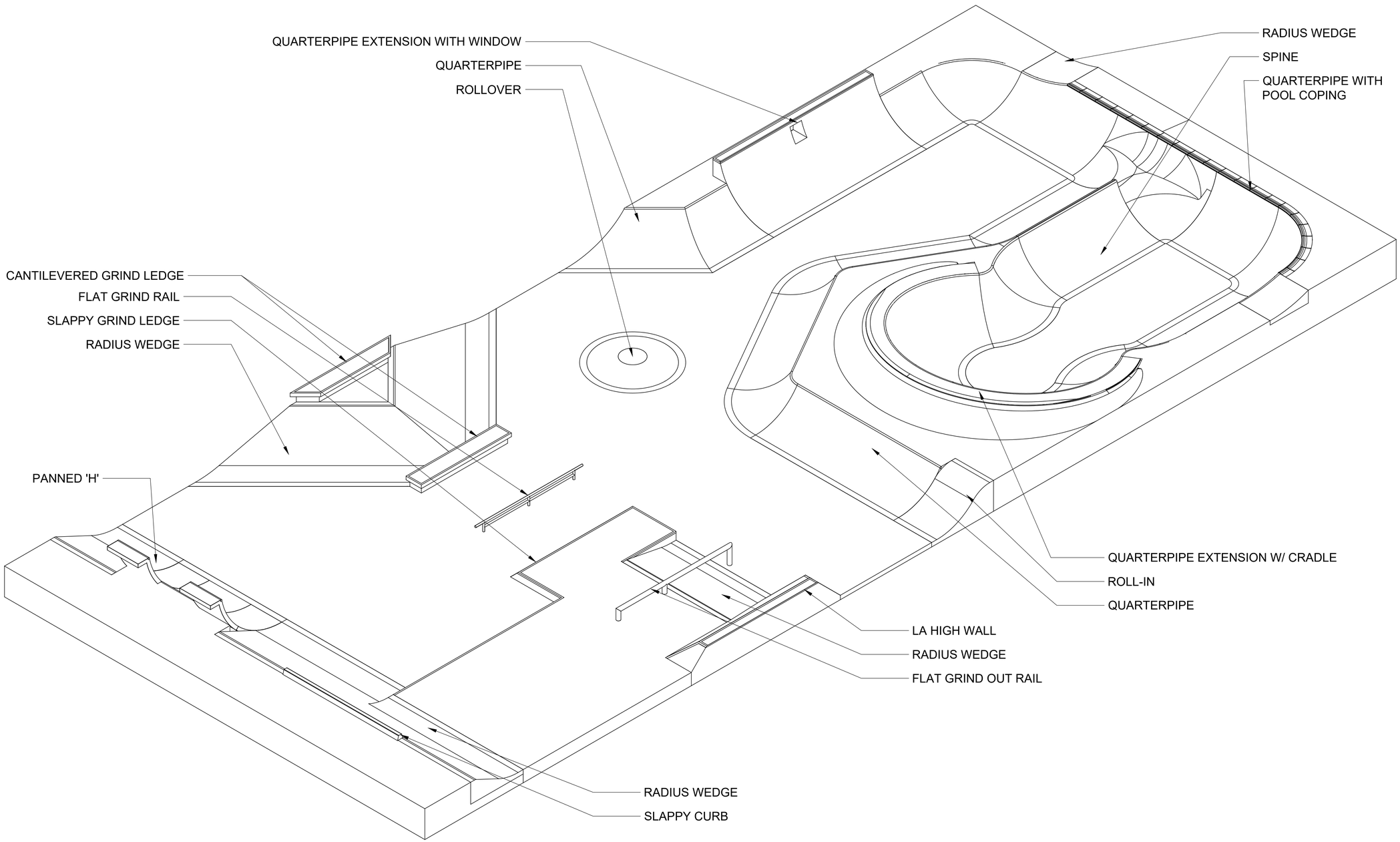
STAMP:

SKATE PARK DESIGNED BY: JB, CW, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

PROJECT TITLE: SNUG HARBOR SKATEPARK

SHEET TITLE: TITLE SHEET

SHEET
SK1.0
OF 16



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PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
3D PERSPECTIVE

SHEET
SK2.0
OF 16

GENERAL NOTES

DESIGN CRITERIA

1. THESE GENERAL NOTES APPLY UNLESS NOTED OTHERWISE ON CONSTRUCTION DRAWINGS.
2. COMPLY WITH CURRENT LOCAL BUILDING CODE EXCEPT AS NOTED HEREIN.
3. TESTING SERVICES: OWNER TO BEAR ALL ASSOCIATED COSTS FOR TESTING SERVICES. COORDINATE THE FOLLOWING TESTING WITH THE OWNER SELECTED TESTING AGENCY (IF REQUIRED BY THE PROJECT SPECIFICATIONS):
   - A. MATERIAL EVALUATIONS TESTS FOR CONCRETE MIX, AGGREGATE BASE, SUBGRADE, AND STRUCTURAL FILL.
   - B. INSPECTION OF STRUCTURAL FILL PLACEMENT AND COMPACTION.
   - C. INSPECTION OF FINAL SUBGRADE.
   - D. BASE MATERIAL COMPACTION TEST FOR EVERY 2500 S.F. OF CONCRETE FLATWORK IN SKATEPARK AREA TO ENSURE 95% COMPACTION IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATIONS AND TESTING AGENCY RECOMMENDATIONS.

EARTHWORK

1. ESTABLISH AND MAINTAIN REQUIRED LINES AND GRADE ELEVATIONS.
2. REMOVE UPPER FOUR TO SIX INCHES OR MORE OF TOPSOILS CONTAINING SURFICIAL VEGETATION, GRASS, ROOTS, AND ORGANIC MATERIAL FROM WITHIN AND TO A POINT AT LEAST FIVE FEET BEYOND THE BUILDING LINES/SKATEPARK LIMITS. THESE SOILS ARE GENERALLY NOT CONSIDERED SUITABLE FOR RE-USE AS STRUCTURAL FILL AND SHOULD BE STOCKPILED IN DESIGNATED AREAS BEYOND THE CONSTRUCTION LIMITS, OR REMOVED FROM THE SITE. COORDINATE STOCKPILE LOCATION WITH OWNER. IF REMOVED FROM SITE, DISPOSE OF IN A LEGAL MANNER.
3. COMPACT THE EXPOSED SUBGRADE ACROSS THE SITE TO ESTABLISH A FIRM AND UNYIELDING SURFACE. UNDER SUPERVISION OF CITY PROVIDED GEOTECHNICAL ENGINEER, PROOF-ROLL EXPOSED SUBGRADES WITH CONSTRUCTION EQUIPMENT TO ASSIST IN THE EVALUATION OF THE SUBGRADES ACROSS THE SITE. IF UNSTABLE AREAS ARE DETECTED, AN INITIAL ATTEMPT SHOULD BE MADE TO AERATE (12 INCHES MIN.) AND DENSIFY THE SUBGRADE BY RECOMPACTION WHERE NATURAL MOISTURE CONTENTS ARE AT APPROPRIATE LEVELS. IF THIS PROCEEDURE IS INEFFECTIVE, THE DISTURBED SOILS SHOULD BE UNDERCUT AND REPLACED WITH CLEAN FILL AND/OR STABILIZING MATERIALS. COMPACT TO AT LEAST 90% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. FILL AND CONSOLIDATE DEPRESSED AREAS. A FIRM, NON-YIELDING SUBGRADE SHOULD BE ESTABLISHED PRIOR TO PROCEEDING WITH FILL PLACEMENT.
4. SOIL COMPACTION SHALL BE ACHIEVED BY MEANS OF PNEUMATIC TIRE ROLLERS, HOE PACKS, RIDE-ON DRUM ROLLER OR OTHER MECHANICAL TAMPERS (PLATE, RAMMER, OR WALK BEHIND ROLLER).
5. PROVIDE STRUCTURAL FILL AS REQUIRED TO MEET PROPOSED SUBGRADE ELEVATIONS IN ACCORDANCE WITH GRADING PLAN.
6. BUILD UP SUBGRADE USING STOCKPILED MATERIAL AND/OR APPROVED MATERIAL WITH LOW PLASTICITY. THE FILL SHOULD BE PLACED IN LIFTS THIN ENOUGH TO ATTAIN THE SPECIFIED COMPACTION LEVEL THROUGHOUT THE ENTIRE LIFT THICKNESS. PRIOR TO COMPACTION, MOISTURE CONDITION AS NEEDED. COMPACT EACH LIFT TO AT LEAST 90 PERCENT OF ASTM D698.
7. THE EARTHWORK SHALL BE DONE UNDER SUPERVISION OF A SOILS ENGINEER RETAINED BY THE OWNER (IF REQUIRED BY THE PROJECT), WHO SHALL VERIFY ABOVE SPECIFICATIONS FOR THE SUPPORT OF SLAB ON GRADE AND FOR THE CONTROL OF SOIL SWELLING. FIELD DENSITY TESTS TO DETERMINE THE LEVEL OF COMPACTION BEING ACHIEVED IN THE FILL SHALL BE PERFORMED ON EACH LIFT AT THE BEGINNING OF FILL PLACEMENT AND AT A FREQUENCY MUTUALLY AGREED UPON BY THE PROJECT TEAM FOR THE REMAINDER OF THE PROJECT.
8. EXCAVATION AND COMPACTION OF FILL SHALL EXTEND TO MINIMUM 2' FEET BEYOND SKATE PARK FOOTPRINT.
10. PROCEED WITH SUB-BASE AS REQUIRED ONLY AFTER NONCONFORMING CONDITIONS HAVE BEEN CORRECTED AND SUBGRADE HAS BEEN INSPECTED. A FIRM, NON-YIELDING SUBGRADE SHOULD BE ESTABLISHED PRIOR TO BASE COURSE PLACEMENT.
11. PROVIDE THE SPECIFIED DEPTH OF COMPACTED AGGREGATE BASE MATERIAL IF REQUIRED. COMPACT AGGREGATE BASE TO 90% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD IF REQUIRED.
12. PROCEED WITH CONCRETE ONLY AFTER NONCONFORMING CONDITIONS HAVE BEEN CORRECTED, SUBGRADE HAS BEEN INSPECTED, AND FORMWORK AND FIELD MOCK-UPS HAVE BEEN REVIEWED.
13. A SOILS REPORT DOES NOT EXIST FOR THIS PROJECT. OWNER SHALL RETAIN A SOILS ENGINEER IF SO REQUIRED BY THE PROJECT, TO VERIFY EXCAVATIONS FOR ASSUMED ALLOWABLE SOIL BEARING, LOW SETTLEMENT AND SWELL POTENTIAL, AND TO MAKE ANY ADDITIONAL RECOMMENDATIONS.

FORMS

1. FORM MATERIALS: PLYWOOD, METAL, METAL-FRAMED PLYWOOD, OR OTHER APPROVED PANEL-TYPE MATERIALS FREE FROM DEFECTS AND DISTORTION, AND TO PROVIDE FULL-DEPTH, CONTINUOUS, STRAIGHT, SMOOTH EXPOSED SURFACES.
2. USE FLEXIBLE OR CURVED FORMS AS REQUIRED TO PROVIDE VERTICAL AND HORIZONTAL RADII AS INDICATED IN THE DRAWINGS.
3. PROVIDE 2" NOMINAL THICKNESS, SURFACED PLANK WOOD FORMS FOR STRAIGHT SECTIONS. USE FLEXIBLE METAL, 1" LUMBER, OR PLYWOOD FORMS FOR RADIUS BENDS. DO NOT OVERLAP FORMS, CREATING AN OFFSET FINISHED EDGE.
4. FORM-RELEASE AGENT: COMMERCIALLY FORMULATED FORM-RELEASE AGENT THAT WILL NOT BOND WITH, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES AND WILL NOT IMPAIR SUBSEQUENT TREATMENTS OF CONCRETE SURFACES.
5. EDGE FORMS AND SCREED CONSTRUCTION
   - A. SET, BRACE, AND SECURE EDGE FORMS, BULKHEADS, AND INTERMEDIATE SCREED GUIDES FOR PAVEMENT TO REQUIRED LINES, GRADES, AND ELEVATIONS. INSTALL FORMS TO ALLOW CONTINUOUS PROGRESS OF WORK.
   - B. CLEAN FORMS AFTER EACH USE AND COAT WITH FORM RELEASE AGENT TO ENSURE SEPARATION FROM CONCRETE WITHOUT DAMAGE.

REINFORCING

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60. FOR REINFORCING THAT IS TO BE WELDED, CONFORM TO ASTM A706 GRADE 60. USE ASTM A-108 GRADE 60 FOR ALL WELDED ANCHORS.
2. JOINT DOWEL BARS: PLAIN STEEL DOWELS, ASTM A 615/A 615M, GRADE 60. CUT BARS TRUE TO LENGTH WITH ENDS SQUARE AND FREE OF BURRS.
3. SLIP DOWEL SLEEVES ARE ACCEPTABLE, SUCH AS SPEED DOWELS BY GREENSTREAK, INC., OR APPROVED EQUAL.
4. BAR SUPPORTS: BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES FOR SPACING, SUPPORTING, AND FASTENING REINFORCEMENTS BARS, AND DOWELS IN PLACE. MANUFACTURE BAR SUPPORTS ACCORDING TO CRSI'S "MANUAL OF STANDARD PRACTICE" FROM STEEL WIRE, PLASTIC, OR PRECAST CONCRETE OR FIBER-REINFORCED CONCRETE OF GREATER COMPRESSIVE STRENGTH THAN CONCRETE.
5. ALL REINFORCING BARS TO BE DEFORMED. CLEAR CONCRETE COVERAGES TO ANY REINFORCING INCLUDING TIES ARE AS FOLLOWS:
   - A. 2" FORMED CONCRETE EXPOSED TO EARTH OR WEATHER.
   - B. 1" SLABS AND JOISTS NOT EXPOSED TO WEATHER.
   - C. 1-1/2" ALL OTHER.
6. SMALLER CLEARANCES PERMISSIBLE FOR PRECAST OR PRESTRESSED.
7. TENSION LAP SPLICES IN CONCRETE: UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING:
   - A. #3, 9"; #4, 12". 30X DIAMETER FOR TOP BARS
8. MINIMUM CLEAR COVER FOR SPLICED REINFORCING IS GREATER THAN ONE BAR DIAMETER, AND MINIMUM CLEAR SPACING IS GREATER THAN TWO BAR DIAMETERS. SPLICE BOTTOM BAR OVER SUPPORTS AND TOP BAR AT MIDSPAN ONLY. WHERE BARS ARE SHOWN SPLICED, THEY MAY RUN CONTINUOUS AT CONTRACTOR'S OPTION.

CONCRETE

1. PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED HEREIN:
   - A. MINIMUM 28-DAY STRENGTH: 4000 PSI
   - B. TYPE I/II CEMENT
   - C. SMALL TO MEDIUM AGGREGATE (1" MAX.)
   - D. WATER/CEMENT RATIO OF .45 OR LESS
   - E. MIX DESIGNS CONTAINING FLY ASH: THE AMOUNT OF FLY ASH USED SHALL NOT EXCEED 20% BY WEIGHT OF THE COMBINED WEIGHT OF FLY ASH PLUS CEMENT.
   - F. AIR ENTRAINMENT NOT TO EXCEED 3%.
2. DO NOT INSTALL CONCRETE WORK OVER SATURATED, MUDDY, OR FROZEN SUBGRADE.
3. PROTECT ADJACENT WORK AND PROVIDE TEMPORARY BARRICADES AS REQUIRED FOR PROTECTION OF PROJECT WORK AND PUBLIC SAFETY.
4. MECHANICALLY VIBRATE ALL CONCRETE FLATWORK WHEN PLACED, EXCEPT THAT SLABS ON GRADE AND SLABS ON DECK NEED TO BE VIBRATED ONLY AROUND EMBEDDED ITEMS.
5. CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED PER THE ACI CODE, WHEN REQUIRED BY THE PROJECT. FREQUENCY= 1 SET OF CYLINDERS PER 50 CY'S PLACED. OWNER TO BEAR ALL COSTS.
6. ALL REINFORCING, INCLUDING DOWELS AND ANCHOR BOLTS, SHALL BE SECURELY TIED IN LOCATION BEFORE PLACING CONCRETE OR GROUT. DOWELS WILL NOT BE ALLOWED TO BE "STABBED" IN.
7. IN AN EFFORT TO CONTROL SHRINKAGE AND QUALITY, FLATWORK/FLOORS SHOULD BE PLACED IN SECTIONS OF 25 CY'S OR LESS.
8. CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 6.3.

CONCRETE PLACEMENT

1. CONSOLIDATE CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES TO CONSOLIDATE CONCRETE ACCORDING TO RECOMMENDATIONS IN ACI 309R.
   - A. CONSOLIDATE CONCRETE ALONG FACE OF FORMS AND ADJACENT TO TRANSVERSE JOINTS WITH AN INTERNAL VIBRATOR. KEEP VIBRATOR AWAY FROM JOINT ASSEMBLIES, REINFORCEMENT, OR SIDE FORMS. USE ONLY SQUARE-FACED SHOVELS FOR HAND-SPREADING AND CONSOLIDATION. CONSOLIDATE WITH CARE TO PREVENT DISLOCATING REINFORCEMENT, DOWELS, AND JOINT DEVICES.
2. COLD WEATHER PLACEMENT: COMPLY WITH ACI 306.1 AND AS FOLLOWS. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
   - A. WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40 DEG F, UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50 DEG F AT POINT OF PLACEMENT.
   - B. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE OR SNOW.
   - C. DO NOT USE CALCIUM CHLORIDE, SALT, OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS, UNLESS OTHERWISE SPECIFIED AND APPROVED IN MIX DESIGNS.
3. HOT-WEATHER PLACEMENT: PLACE CONCRETE ACCORDING TO RECOMMENDATION IN ACI 305R AND AS FOLLOWS WHEN HOT-WEATHER CONDITIONS EXIST:
   - A. COOL INGREDIENTS BEFORE MIXING TO MAINTAIN CONCRETE TEMPERATURE AT TIME OF PLACEMENT BELOW 100 DEG FAHRENHEIT. CHILLED MIXING WATER OR CHOPPED ICE MAY BE USED TO CONTROL TEMPERATURE, PROVIDED WATER EQUIVALENT OF ICE IS CALCULATED TO TOTAL AMOUNT OF MIXING WATER. USING LIQUID NITROGEN TO COOL CONCRETE IS CONTRACTORS OPTION.
   - B. FOG-SPRAY FORMS, REINFORCEMENT STEEL, AND SUBGRADE JUST BEFORE PLACING CONCRETE. KEEP SUBGRADE MOISTURE UNIFORM WITHOUT STANDING WATER, SOFT SPOTS, OR DRY AREAS.
4. **FINISH: ALL EXPOSED CONCRETE SURFACES ARE TO BE HARD STEEL TROWEL FINISH UNLESS OTHERWISE NOTED. TROWEL UNTIL ALL VISIBLE POURS ARE CLOSED. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT BROOM FINISH AND DO NOT TROWEL BURN SURFACE.**
   - a. ALL EDGE TOOLING SHOULD BE 1/8 INCH RADIUS UNLESS OTHERWISE SPECIFIED.
5. COLOR: ALL CONCRETE SURFACES ARE TO BE NATURAL GRAY COLOR UNLESS OTHERWISE NOTED. MINOR VARIATIONS IN APPEARANCE OF COLORED CONCRETE, WHICH ARE SIMILAR TO NATURAL VARIATIONS IN COLOR AND APPEARANCE OF UNCOLORED CONCRETE, ARE ACCEPTABLE. DO NOT BROOM FINISH AND DO NOT TROWEL BURN SURFACE.

CONCRETE PROTECTION AND CURING

1. GENERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND FOLLOW RECOMMENDATIONS IN ACI 305R FOR HOT-WEATHER PROTECTION DURING CURING. KEEP MOIST FOR NECESSARY AMOUNT OF TIME TO REACH CONCRETE STRENGTH AND INHIBIT MOISTURE LOSS AFTER PLACING.
2. EVAPORATION RETARDANT: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE, SUCH AS EUCOBAR EVAPORATION RETARDANT BY THE EUCLID CHEMICAL COMPANY. APPLY EVAPORATION RETARDANT TO CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS BEFORE AND DURING FINISHING OPERATIONS. APPLY TO EXPOSED SURFACE OF CONCRETE ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS AS NECESSARY.
3. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE.
4. CURING METHODS: CURE CONCRETE BY CURING COMPOUND, MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, OR A COMBINATION OF THESE AS FOLLOWS:
   - A. CURING COMPOUND: MEET REQUIREMENTS OF MANUFACTURER'S CURRENT PRINTED APPLICATION INSTRUCTIONS AND COVERAGE RATE CHART. FOR HORIZONTAL APPLICATIONS, IMMEDIATELY APPLY AFTER ALL SURFACE WATER HAS DISAPPEARED AND THE CONCRETE SURFACE IS HARD ENOUGH TO WALK ON. FOR VERTICAL APPLICATIONS, APPLY IMMEDIATELY AFTER REMOVING THE CONCRETE FORMS. APPLY IN A UNIFORM AND CONTINUOUS MANNER. AVOID OVER-APPLICATION OR PUDDLING OF CURING COMPOUND. PROTECT SURFACE FROM WATER, ADJACENT SHOTCRETE WORK, AND DEBRIS.
   - B. MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS WITH THE FOLLOWING MATERIALS:
     - WATER.
     - CONTINUOUS WATER-FOG SPRAY.
     - ABSORPTIVE COVER, WATER SATURATED, AND KEPT CONTINUOUSLY WET. COVER CONCRETE SURFACES AND EDGES, OVERLAP SEAMS MIN. 6" BETWEEN ADJACENT ABSORPTIVE COVERS.
   - C. MOISTURE-RETAINING-COVER CURING: COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH, WITH SIDES AND ENDS LAPPED AT LEAST 6 INCHES.

CURING MATERIALS

1. ABSORPTIVE COVER: AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9OZ./SQ. YD. DRY.
2. MOISTURE-RETAINING COVER: ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET (BUR LENE).
3. WATER: POTABLE.
4. CURING COMPOUND: ASTM C-309, CLEAR, WATER-BASED, NO VOLATILE, NON-STAINING, MEMBRANE-FORMING, COMPATIBLE WITH SUBSEQUENT CONCRETE TREATMENTS. ACCEPTABLE PRODUCT: W.R. MEADOWS 1100-CLEAR, OR APPROVED EQUAL.

JOINT MATERIALS

1 EXPANSION AND ISOLATION JOINT FILLER STRIPS: EXPANSION JOINT MATERIALS SHALL BE FLEXIBLE POLYETHYLENE CLOSED CELL FOAM OR SIMILAR AND SUPPLIED BY CONCRETE CONTRACTOR. DECK-O-FOAM OR EQUIVALENT.

2 EXPANSION JOINT SEALANT: SIKAFLEX - 1A NS TG POLYURETHANE ELASTOMERIC SEALANT, OR APPROVED EQUAL. COLOR OF CAULK SHOULD RESEMBLE NATURAL COLOR OF CONCRETE (ALUMINUM GRAY OR LIMESTONE).

3 SAW CUT JOINT SEALANT: SIKAFLEX-1C SL HIGH PERFORMANCE, SELF-LEVELING, 1-PART POLYURETHANE SEALANT, OR APPROVED EQUAL. COLOR OF CAULK SHOULD RESEMBLE NATURAL COLOR OF CONCRETE (ALUMINUM GRAY OR LIMESTONE)

JOINTS

1. GENERAL: CONSTRUCT CONSTRUCTION, ISOLATION, AND CONTRACTION JOINTS AND TOOL EDGINGS TRUE TO LINE WITH FACES PERPENDICULAR TO SURFACE PLANE OF CONCRETE. CONSTRUCT TRANSVERSE JOINTS AT RIGHT ANGLES TO CENTERLINE, UNLESS OTHERWISE INDICATED.
2. EXPANSION JOINTS: FORM EXPANSION JOINTS OF SPECIFIED JOINT-FILLER STRIPS WHERE INDICATED
   - A. LOCATE EXPANSION JOINTS AS INDICATED ON DRAWINGS.
   - B. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT.
3. INSTALL DOWEL BARS AND SUPPORT ASSEMBLIES AT JOINTS WHERE INDICATED. LUBRICATE OR ASPHALT-COAT ONE-HALF DOWEL LENGTH TO PREVENT CONCRETE BONDING TO ONE SIDE OF JOINT.
4. CONTROL JOINTS: FORM WEAKENED-PLANE JOINTS, SECTIONING CONCRETE INTO AREAS AS INDICATED. CONSTRUCT CONTROL JOINTS FOR A DEPTH AS INDICATED IN THE DRAWINGS (GENERALLY 1/3 OF THE PAVEMENT THICKNESS), AS FOLLOWS:
   - A. SAWED JOINTS: FORM CONTROL JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT 1/8 INCH WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AN BEFORE DEVELOPING RANDOM CONTRACTION CRACKS. EARLY SAW CUTS ARE APPROXIMATELY 1 INCH DEEP, REGARDLESS OF PAVEMENT THICKNESS. REFER TO CONTROL JOINT GUIDE DRAWING OF PLAN SET IF APPLICABLE.
   - B. IF SKATEPARK PROJECT DESIGN UTILIZES POURED STEPS, CONTROL JOINTS MUST BE CUT 3 - 4 FEET FROM THE EDGE OF THE TOP STEP.
5. POST CURE DETAIL WORK (AS NEEDED): GRIND SMOOTH ANY INCONSISTENCIES IN THE FINISH OR HIGH SPOTS BETWEEN POURS.

METALS

1. FURNISH MATERIALS AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED TO BOWL STEEL COPING, LEDGE STEEL EDGING, HANDRAILS, AND GRIND RAILS.
2. USING SKILLED WORKERS, FORM AND FABRICATE ITEMS OF WORK AS INDICATED AND AS REQUIRED TO MEET INSTALLATION CONDITIONS. MAKE PROVISIONS TO CONNECT WITH OR RECEIVE THE WORK OF OTHER TRADES.
3. USE MATERIALS OF SIZE AND THICKNESS SHOWN OR, IF NOT SHOWN, OF REQUIRED SIZE AND THICKNESS TO PRODUCE STRENGTH AND DURABILITY IN THE FINISHED PRODUCT.
4. UNLESS OTHERWISE INDICATED, WELD OR BOLT CONNECTIONS BETWEEN MEMBERS. WHERE POSSIBLE, CONCEAL CONNECTIONS ON THE FINISHED WORK. FIT OR MITER EXPOSED JOINTS TO HAIRLINE TOLERANCE OR USE WELDED JOINTS. ON FINISHED SURFACES, GRIND ALL WELDS SMOOTH AND FLUSH WITH BASE METAL.
5. WELD CONNECTIONS WHICH ARE NOT TO BE LEFT AS EXPOSED JOINTS, BUT CANNOT BE SHOP WELDED BECAUSE OF SHIPPING SIZE LIMITATIONS.
6. CAP ALL EXPOSED TUBE OR PIPE ENDS. USE SIZE AND THICKNESS OF MATERIAL SHOWN. PROPERLY FIT AND WELD CAP AT JOINT, GRIND WELD SMOOTH AND FLUSH WITH BASE METAL.
7. BEND PIPE OR TUBING WITHOUT COLLAPSING OR DEFORMING THE WALLS, SO AS TO PRODUCE A SMOOTH UNIFORM CURVED SECTION AND MAINTAIN UNIFORM SECTIONAL SHAPE.
8. WHERE ITEMS ARE TO BE IMBEDDED IN CONCRETE OR MASONRY, PROVIDE WELDED-ON ANCHORS OR LUGS AS INDICATED OR REQUIRED.
9. PROVIDE TEMPORARY BRACING OR ANCHORS IN FORMWORK FOR ITEMS WHICH ARE TO BE BUILT INTO CONCRETE OR SIMILAR CONSTRUCTION.
10. FASTENING TO IN-PLACE CONSTRUCTION: PROVIDE ANCHORING DEVICES AND FASTENERS WHERE NECESSARY FOR SECURING MISCELLANEOUS METAL FABRICATIONS TO IN-PLACE CONSTRUCTION INCLUDING THREADED FASTENERS FOR CONCRETE INSERTS, OR OTHER CONNECTORS AS REQUIRED.
11. GALVANIZING REPAIR--USE A HIGH ZINC DUST CONTENT PAINT FOR RE-GALVANIZING WELDS IN GALVANIZED STEEL. HOT GALVANIZED SOLDER IS ALSO ACCEPTABLE. USE RUST-OLEUM COLD GALVANIZING COMPOUND SPRAY, OR SIMILAR.
12. ALL WELDING SHALL CONFORM TO REQUIREMENTS OF AWS STANDARDS. ALL WELDING SHALL BE SHIELDED METAL ARC WELDING. WELDS IN FINISH WORK SHALL BE FILLED OUT FLUSH, GROUND AND DISTRESSED.
13. ASTM A-36 FOR C, MC, ANGLES, AND PLATES.
14. ASTM A-53 GRADE B OR A-500 GRADE B OR A-501 GRADE B FOR STEEL PIPES.
15. ASTM A-123 STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
16. ASTM A-780 STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS.

SUPPLEMENTARY NOTES

1. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE IMPROVEMENTS, WORKERS, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, MEANS AND METHODS, BRACING, SHORING, FORMS, SCAFFOLDING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD ELEMENTS IN PLACE DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. OPTIONS AND SUBSTITUTIONS (APPROVED BY OWNER/SKATEPARK DESIGNER/ARCHITECT) ARE FOR CONTRACTOR'S CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ALL CHANGES AND ADDITIONAL COSTS NECESSARY AND SHALL COORDINATE ALL DETAILS WITH SKATEPARK DESIGNER THROUGH PRIME CONTRACTOR.
3. ANY ENGINEERING DESIGN PROVIDED BY CONTRACTOR OR OTHERS AND SUBMITTED FOR REVIEW SHALL BE WET SIGNED AND STAMPED BY AN INSURED REGISTERED STRUCTURAL OR CIVIL ENGINEER LICENSED IN THE STATE OF WHICH THE PROJECT IS LOCATED, IF REQUIRED BY CITY OR COUNTY.
4. UNLESS NOTED OTHERWISE, DETAILS ON CONSTRUCTION DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES. ALL DETAILS SHOWN SHALL BE IMPORTED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS, WHETHER SPECIFICALLY INDICATED OR NOT. TYPICAL DETAILS MAY OR MAY NOT BE REFERENCED ON THE DOCUMENTS, BUT SHALL APPLY AT ALL LOCATIONS, UNLESS NOTED OTHERWISE. WHERE NO DETAIL CUTS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK SHOWN ELSEWHERE ON THE PROJECT. FOR BIDDING PURPOSES, WHERE ANY SHOWN MEMBER OR STRUCTURAL ELEMENT IS NOT SIZED ON THE DOCUMENTS, THE LARGEST SIMILAR MEMBER USED IN THE PROJECT SHALL BE UTILIZED.
5. ALL DIMENSIONS AND ELEVATIONS SHOWN ON CONSTRUCTION DRAWINGS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS (IF REQUIRED BY THE PROJECT). RESOLVE ALL DISCREPANCIES WITH SKATEPARK DESIGNER AND PRIME CONTRACTOR PRIOR TO START OF CONSTRUCTION. DO NOT SCALE DRAWINGS.
6. CONTRACTOR SHALL ESTABLISH AND VERIFY IN FIELD ALL EXISTING CONDITIONS AFFECTING NEW CONSTRUCTION. CONTACT SKATEPARK DESIGNER AND PRIME CONTRACTOR IMMEDIATELY IF EXISTING CONDITIONS ARE NOT AS DEPICTED IN DRAWINGS.
7. ***SKATE FEATURE DESIGN AND LAYOUT ARE THE RESPONSIBILITY OF THE SKATEPARK DESIGNER.**

PAVEMENT TOLERANCES

4. CONTRACTOR MUST ACHIEVE POSITIVE DRAINAGE FOR ALL SURFACES WITHIN THE SKATEPARK AREA WHENEVER POSSIBLE.

REPAIRS AND PROTECTION

1. REMOVE AND REPLACE CONCRETE PAVEMENT THAT IS BROKEN, DAMAGED, OR DEFECTIVE, OR DOES NOT MEET REQUIREMENTS IN THIS SECTION. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 3/16" UP TO THE PROJECT COMPLETION.
2. PROTECT CONCRETE FROM DAMAGE. EXCLUDE TRAFFIC FROM PAVEMENT FOR AT LEAST 14 DAYS AFTER PLACEMENT. WHEN CONSTRUCTION TRAFFIC IS PERMITTED, MAINTAIN PAVEMENT AS CLEAN AS POSSIBLE BY REMOVING SURFACE STAINS AND SPILLAGE OF MATERIALS AS THEY OCCUR.
3. MAINTAIN CONCRETE PAVEMENT OF FREE STAINS, DISCOLORATION, DIRT, AND OTHER FOREIGN MATERIAL.

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STAMP:

SKATE PARK DESIGNED BY: JB, CW, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

PROJECT TITLE: **SNUG HARBOR SKATEPARK**

SHEET TITLE: **SPECIFICATIONS**

SHEET **SK3.0**

SHOTCRETE SPECIFICATIONS

PART 1- GENERAL

1.1 SUMMARY

A. SPECIALTY CONSTRUCTION:

A.A. DESCRIPTION: SHOTCRETE APPLICATION, CUTTING, SCULPTING AND FINISH WORK HAS BEEN DEEMED AS SPECIALTY CONSTRUCTION WORK WITHIN THE CONSTRUCTION DOCUMENTS. ALL WORK RELATED TO THE SPECIALTY CONSTRUCTION SHALL BE COORDINATED BY THE PROJECT ENGINEER, AND THE PRE-QUALIFIED SPECIALTY CONTRACTOR, PRIOR TO THE START OF CONSTRUCTION.

1.2 QUALITY ASSURANCE

A. STANDARDS: COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE FOLLOWING CODES AND STANDARDS, EXCEPT AS HEREIN MODIFIED:

A.A. AMERICAN CONCRETE INSTITUTE (ACI): 506, CHAPTER 13, WET METHOD. CHAPTER 5, SHOTCRETE CREW

A.B. ASTM: "AMERICAN SOCIETY FOR TESTING MATERIALS"

1.3 REFERENCE STANDARDS

A. ACI 305- RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING.

B. ACI 306- RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETING.

C. ASTM C33- CONCRETE AGGREGATES

D. ASTM C94- READY-MIXED CONCRETE

E. ASTM C143- TEST FOR SLUMP OF PORTLAND CEMENT CONCRETE

F. ASTM C150- PORTLAND CEMENT

G. ASTM C260- AIR-ENTRAINING ADMIXTURES FOR CONCRETE

H. ASTM C494- CHEMICAL ADMIXTURES FOR CONCRETE

I. ASTM C618- FLY ASH AND RAW OR CALCINED NATURAL POZZOLANS FOR USE IN PORTLAND CEMENT CONCRETE.

1.4 JOB CONDITIONS

A. COORDINATION:

A.A. COORDINATE SCHEDULES OF CONCRETE WORK TO ALLOW ADEQUATE TIME FOR INSTALLATION OF OTHER RELATED WORK.

A.B. VERIFY THAT ANCHOR BOLTS AND OTHER EMBEDDED STEEL ITEMS TO BE CAST INTO CONCRETE ARE PROPERLY PLACED.

A.C. COORDINATE EARTHWORK AND SOILS REPORT RECOMMENDATIONS WITH PLACEMENT REQUIREMENTS.

A.D. COORDINATE WITH FORM-WORK AND FINISHES SECTIONS TO PROVIDE FINISH FLOORLEVELNESS AND FLATNESS AS SPECIFIED HEREIN. SLOPE TO DRAINS AT GRADES AND PERCENT SLOPE SHOWN IN THE CONSTRUCTION DRAWINGS.

PART 2- SHOTCRETE WORK

2.1 SHOTCRETE MIX DESIGN

A. PROVIDE MIX DESIGNS THAT WILL MEET THE MINIMUM REQUIREMENTS LISTED HEREIN:

A.A. MINIMUM 28-DAY STRENGTH: 4000 PSI

A.B. TYPE I/II CEMENT

A.C. SMALL AGGREGATE (1/2" MAX.)

A.D. WATER/CEMENT RATIO OF .45 OR LESS

A.E. AIR ENTRAINMENT NOT TO EXCEED 3%

B. MIX DESIGNS FOR SHOTCRETE CONTAINING FLY ASH: THE AMOUNT OF FLY ASH USED SHALL NOT EXCEED 20% BY WEIGHT OF THE COMBINED WEIGHT OF FLY ASH PLUS CEMENT.

2.2 CONCRETE APPLICATION EQUIPMENT

A. FOR WET MIX SHOTCRETE:

A.A. MIXING EQUIPMENT: CAPABLE OF THOROUGHLY MIXING AGGREGATE, CEMENT AND WATER IN SUFFICIENT QUANTITY TO MAINTAIN CONTINUOUS PLACEMENT.

A.B. AIR SUPPLY: CLEAN AIR ADEQUATE FOR MAINTAINING SUFFICIENT NOZZLE VELOCITY FOR PARTS OF WORK, AND FOR SIMULTANEOUS OPERATION OF BLOW PIPE FOR CLEANING AWAY REBOUND.

A.C. DELIVERY EQUIPMENT: CAPABLE OF DISCHARGING AGGREGATE-CEMENT-WATER MIXTURE ACCURATELY, UNIFORMLY, AND CONTINUOUSLY THROUGH DELIVERY HOSE.

PART 3- EXECUTION

3.1 INSPECTION

A. EXAMINATION: EXAMINE CONCRETE FORMWORK AND VERIFY THAT IT IS TRUE TO LINE AND DIMENSION, ADEQUATELY BRACED AGAINST VIBRATION, AND CONSTRUCTED TO PERMIT ESCAPE OF AIR AND REBOUND BUT TO PREVENT LEAKAGE DURING SHOTCRETING. CORRECT DEFICIENCIES.

B. NOTIFICATION: NOTIFY OTHER TRADES INVOLVED IN AMPLE TIME TO PERMIT THE PROPER INSTALLATION OF THEIR WORK. COOPERATE IN SETTING SUCH WORK.

C. EXISTING SURFACES: EXAMINE EXISTING CONCRETE SURFACES FOR UNSOUND MATERIAL. CORRECT DEFICIENCIES.

3.2 PREPARATION FOR INSTALLATION OF CONCRETE

A. FORMS: USE A FORM-COATING MATERIAL ON REMOVABLE FORMS TO PREVENT ABSORPTION OF MOISTURE AND TO PREVENT BOND WITH SHOTCRETE.

3.3 CONCRETE BATCHING AND MIXING

A. PROPORTIONS: MIX PROPORTIONS SHALL BE CONTROLLED BY WEIGHT BATCHING.

B. SCHEDULING: CONCRETE SHALL NOT EXCEED A TEMPERATURE OF 100 DEGREES FAHRENHEIT AT TIME OF PLACEMENT UNLESS PRE-APPROVED BY THE PROJECT ENGINEER.

3.4 CONCRETE PLACEMENT

A. PLACEMENT: USE SUITABLE DELIVERY EQUIPMENT AND PROCEDURES THAT WILL RESULT IN SHOTCRETE IN PLACE MEETING THE REQUIREMENTS OF THIS SPECIFICATION. DETERMINE OPERATING PROCEDURES FOR PLACEMENT IN, EXTENDED DISTANCES, AND AROUND ANY OBSTRUCTIONS WHERE PLACEMENT VELOCITIES AND MIX CONSISTENCY MUST BE ADJUSTED.

B. PLACEMENT TECHNIQUES:

B.A. CONTROL THICKNESS, METHOD OF SUPPORT, AIR PRESSURE, AND/OR WATER CONTENT OF SHOTCRETE TO PRECLUDE SAGGING OR SLOUGHING OFF. DISCONTINUE SHOTCRETING OR PROVIDE SUITABLE MEANS TO SCREEN THE NOZZLE STREAM IF WIND OR AIR CURRENTS CAUSE SEPARATION OF THE NOZZLE STREAM DURING PLACEMENT.

B.B. HOLD NOZZLE AS PERPENDICULAR TO SURFACE AS WORK WILL PERMIT, TO SECURE MAXIMUM COMPACTION WITH MINIMUM REBOUND.

B.C. IN SHOTCRETING WALLS, BEGIN APPLICATION AT BOTTOM. ENSURE WORK DOES NOT SAG.

B.D. LAYERING:

B.D.A. BUILD UP LAYERS BY MAKING SEVERAL PASSES OF NOZZLE OVER WORK AREA.

B.D.B. MAKE SURE SURFACE IS ADEQUATELY ROUGH TO WHICH, AFTER HARDENING, ADDITIONAL LAYERS OF SHOTCRETE ARE TO BE BONDED.

B.D.C. DAMPEN SURFACE (ACHIEVE SATURATED SURFACE DRY (SSD) CONDITION) JUST PRIOR TO APPLICATION OF SUCCEEDING LAYERS.

B.D.D. ALLOW EACH LAYER OF SHOTCRETE TO TAKE INITIAL SET BEFORE APPLYING SUCCEEDING LAYERS.

B.D.E. USE RADIAL TEMPLATES TO INSURE EXACT RADII FROM FLAT BOTTOM OF BOWL/PIPE TO FACE OF COPING. TEMPLATE SHALL BE FABRICATED FROM STEEL OR 3/4" MINIMUM PLYWOOD. CHECK EVERY HORIZONTAL FOOT WHEN APPLYING SHOTCRETE FOR CONFORMANCE OF INTENDED WALL RADII. BRACE TEMPLATE AND PLACE LEVELS AT ARC TO TANGENT CONNECTIONS TO INSURE NO KINKS WILL BE FORMED. KINKS AT THE BOTTOM OF BOWLS WILL NOT BE ACCEPTABLE. SLUMPING OF THE SHOTCRETE CAUSING COPING SETBACK WILL NOT BE ACCEPTABLE.

B.D.F. REMOVE ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE FROM SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE. REBOUND SHALL NOT BE USED AS AGGREGATE.

B.E. PLACEMENT AROUND REINFORCEMENT:

B.E.A. HOLD THE NOZZLE AT SUCH DISTANCE AND ANGLE TO PLACE MATERIALS BEHIND REINFORCEMENT BEFORE ANY MATERIAL IS ALLOWED TO ACCUMULATE ON ITS FACE.

B.F. ACCESS: ALLOW EASY ACCESS TO SHOTCRETE SURFACES FOR SCREEDING AND FINISHING, PERMITTING UNINTERRUPTED APPLICATION.

3.14 REMOVAL OF SURFACE DEFECTS IN CONCRETE

A. GENERAL: REMOVE AND REPLACE SHOTCRETE WHICH LACKS UNIFORMITY, EXHIBITS SEGREGATION, HONEYCOMBING, OR LAMINATION, OR WHICH CONTAINS ANY DRY PATCHES, SLUGS, VOIDS OR POCKETS. REMOVE DEFECTIVE AREAS.

3.15 SHOTCRETE FINISH

A. FINISH: ALL EXPOSED SHOTCRETE SURFACES ARE TO BE HARD STEEL TROWEL FINISH UNLESS OTHERWISE NOTED. TROWEL UNTIL ALL VISIBLE POURS ARE CLOSED. CEASE TROWEL BEFORE GLASS FORMS ON SURFACE. DO NOT BROOM FINISH AND DO NOT BURN SURFACE.

B. GRINDING THE SURFACES WILL NOT BE AN ACCEPTABLE MEANS OF ACHIEVING THE INTENDED RADII/ANGLE.

C. COLOR: ALL SHOTCRETE SURFACES ARE TO BE NATURAL GRAY COLOR UNLESS OTHERWISE NOTED. MINOR VARIATIONS IN APPEARANCE OF COLORED CONCRETE, WHICH ARE SIMILAR TO NATURAL VARIATIONS IN COLOR AND APPEARANCE OF UNCOLORED CONCRETE, ARE ACCEPTABLE. DO NOT BROOM FINISH AND DO NOT TROWEL BURN SURFACE.

D. DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40 DEGREES FAHRENHEIT AND IN MOIST CONDITION. FOR INITIAL CURING, CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER PLACEMENT IS COMPLETE. FINAL CURING SHALL CONTINUE FOR SEVEN DAYS AFTER PLACEMENT. COVER CONCRETE WITH POLYETHYLENE PLASTIC TO MAINTAIN TEMPERATURE IF NECESSARY. LAP SEAMS IN THE PLASTIC 6" AND WEIGH DOWN.

E. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 3/16" UP TO THE PROJECT COMPLETION.

3.16 CONCRETE PROTECTION AND CURING

1. NERAL: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. COMPLY WITH ACI 306.1 FOR COLD-WEATHER PROTECTION AND FOLLOW RECOMMENDATIONS IN ACI 305R FORHOT-WEATHER PROTECTION DURING CURING. KEEP MOIST FOR NECESSARY AMOUNT OF TIME TO REACH CONCRETE STRENGTH AND INHIBIT MOISTURE LOSS AFTER PLACING.
2. EVAPORATION RETARDANT: WATERBORNE, MONOMOLECULAR FILM FORMING, MANUFACTURED FOR APPLICATION TO FRESH CONCRETE, SUCH AS EUCOBAR EVAPORATION RETARDANT BY THE EUCLID CHEMICAL COMPANY. APPLY EVAPORATION RETARDANT TO CONCRETE SURFACES IF HOT, DRY, OR WINDY CONDITIONS CAUSE MOISTURE LOSS BEFORE AND DURINGFINISHING OPERATIONS. APPLY TO EXPOSED SURFACE OF CONCRETE ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS AS NECESSARY.
3. BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE.
4. CURING METHODS: CURE CONCRETE BY CURING COMPOUND, MOISTURE CURING, MOISTURE-RETAINING-COVER CURING, OR A COMBINATION OF THESE AS FOLLOWS:

A. CURING COMPOUND: MEET REQUIREMENTS OF MANUFACTURER'S CURRENT PRINTED APPLICATION INSTRUCTIONS AND COVERAGE RATE CHART. FOR HORIZONTAL APPLICATIONS, IMMEDIATELY APPLY AFTER ALL SURFACE WATER HAS DISAPPEARED AND THE CONCRETE SURFACE IS HARD ENOUGH TO WALK ON. FOR VERTICAL APPLICATIONS, APPLY IMMEDIATELY AFTER REMOVING THE CONCRETE FORMS. APPLY IN A UNIFORM AND CONTINUOUS MANNER. AVOID OVER-APPLICATION OR PUDDLING OF CURING COMPOUND. PROTECT SURFACE FROM WATER, ADJACENT SHOTCRETE WORK, AND DEBRIS.

B. MOISTURE CURING: KEEP SURFACES CONTINUOUSLY MOIST FOR NOT LESS THAN SEVEN DAYS WITH THE FOLLOWING MATERIALS:

B.A. WATER.

B.B. CONTINUOUS WATER-FOG SPRAY.

B.C. ABSORPTIVE COVER, WATER SATURATED, AND KEPT CONTINUOUSLY WET. COVER CONCRETE SURFACES AND EDGES, OVERLAP SEAMS MIN. 6" BETWEEN ADJACENT ABSORPTIVE COVERS.

C. MOISTURE-RETAINING-COVER CURING:

C.A. COVER CONCRETE SURFACES WITH MOISTURE-RETAINING COVER FOR CURING CONCRETE, PLACED IN WIDEST PRACTICABLE WIDTH, WITH SIDES AND ENDS LAPPED AT LEAST 6 INCHES.

3.17 CURING MATERIALS

1. ABSORPTIVE COVER:

   AASHTO M 182, CLASS 2, BURLAP CLOTH MADE FROM JUTE OR KENAF, WEIGHING APPROXIMATELY 9OZ./SQ. YD. DRY.
2. MOISTURE-RETAINING COVER:

   ASTM C 171, POLYETHYLENE FILM OR WHITE BURLAP-POLYETHYLENE SHEET (BUR LENE).
3. WATER: POTABLE.
4. CURING COMPOUND: ASTM C-309, CLEAR, WATER-BASED, NO VOLATILE, NON-STAINING, MEMBRANE-FORMING, COMPATIBLE WITH SUBSEQUENT CONCRETE TREATMENTS. ACCEPTABLE PRODUCT: W.R. MEADOWS 1100-CLEAR, OR APPROVED EQUAL.

3.18 CONCRETE JOINTS

A. CLEANING: THE ENTIRE JOINT SHALL BE THOROUGHLY CLEANED AND WETTED PRIOR TO THE APPLICATION OF ADDITIONAL SHOTCRETE.

B. REINFORCEMENT: MAKE JOINTS PERPENDICULAR TO THE MAIN REINFORCEMENT. CONTINUE REINFORCEMENT ACROSS JOINTS.

3.19 CRACKING

A. SAW CUT CONTROL JOINTS AND CONSTRUCTION JOINTS MAY BE SHOWN IN THE CONSTRUCTION DRAWINGS FOR DIAGRAMMATIC PURPOSES ONLY. THE CONTRACTOR MAY, WITH APPROVAL OF THE SKATEPARK DESIGNER, RECOMMEND AND DETAIL ADDITIONAL JOINTS TO HELP PREVENT CRACKING.

B. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 3/16" UP TO PROJECT COMPLETION.

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SKATE PARK DESIGNED BY: JB, CW, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

PROJECT TITLE: SNUG HARBOR SKATEPARK

SHEET TITLE: SPECIFICATIONS

SHEET
SK3.1
OF 16

DEMOLITION SCHEDULE

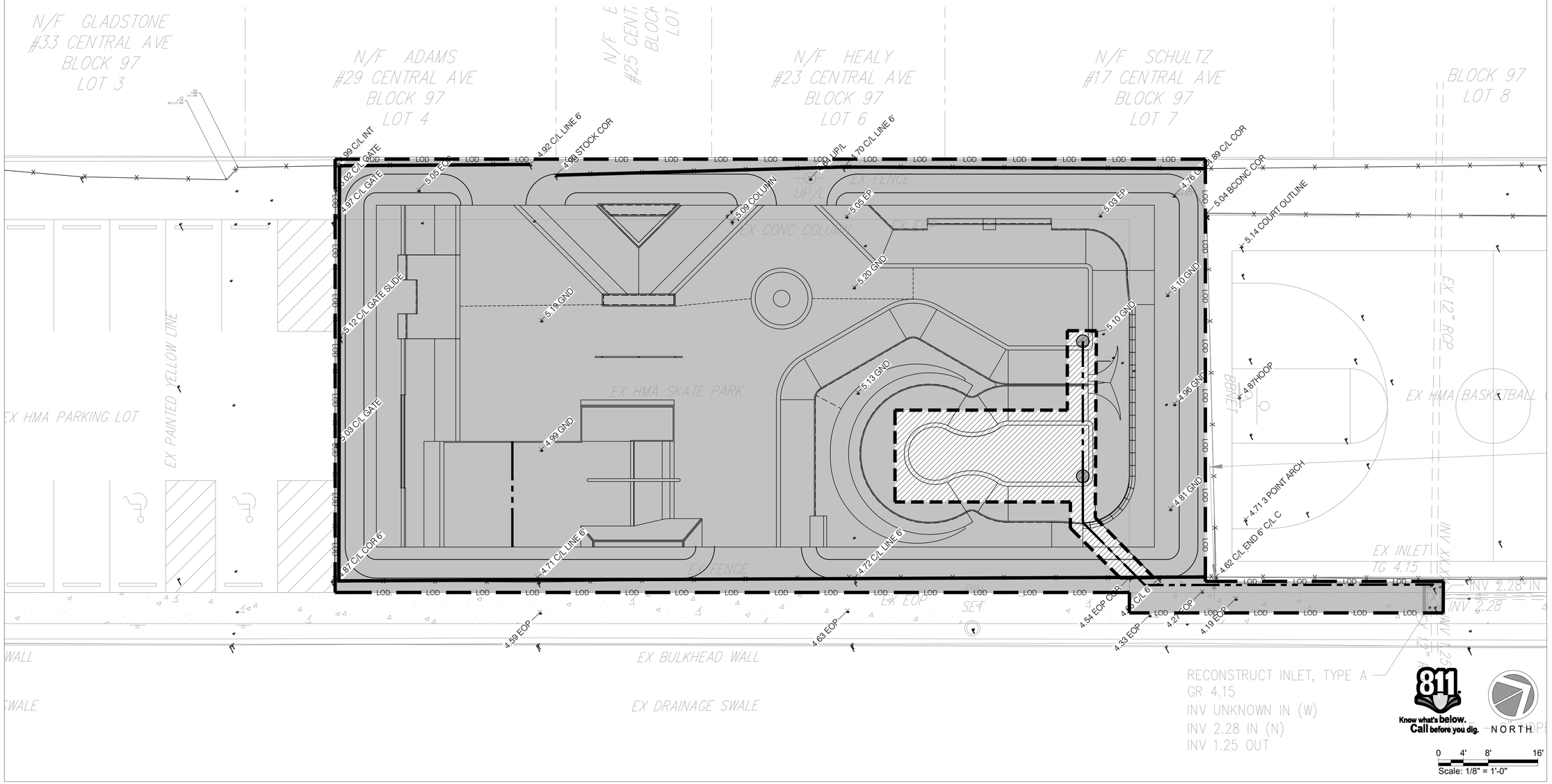
SYMBOL	DEMOLITION DESCRIPTION	QTY
LOD / D-01	LIMIT OF DISTURBANCE	502 LF
D-02	EXISTING FENCE TO BE REMOVED	651 LF

SYMBOL	DEMOLITION DESCRIPTION	QTY
D-03	REMOVE EXISTING ASPHALT SLAB WITHIN SKATEPARK BOWL FOOTPRINT AND TRENCHING FOR DRAINLINES PRIOR TO CONSTRUCTION.	628 SF
D-04	CLEAR AND GRUB SITE PER SKATEPARK SPECIFICATIONS ON SK3.0 + SK3.1	9,359 SF

DEMOLITION PLAN GENERAL NOTES:

1. DEMOLITION SHOWN ON THIS PLAN IS A MINIMUM REQUIREMENT. CONTRACTOR SHALL DEMOLISH, RELOCATE, AND/OR REMOVE ALL PORTIONS OF THE EXISTING UTILITIES AND SITE ELEMENTS NECESSARY TO ACHIEVE THE WORK SHOWN AS SPECIFIED.
2. CONTRACTOR TO PHASE DEMOLITION TO ACCOMMODATE AND FACILITATE CONTINUAL OCCUPANCY OF ADJACENT PROPERTIES AND SITE FACILITIES AND SAFETY OF CITY EMPLOYEES AND THE PUBLIC IN AND AROUND THOSE FACILITIES.
3. MEANS AND METHODS TO LOCATE EXISTING ELEMENTS ARE THE CONTRACTOR'S RESPONSIBILITY.
4. ALL PAVEMENT TO BE PER PLAN.
5. ALL VOIDS/HOLES/DEPRESSIONS LEFT FROM DEMOLITION MUST BE FILLED AND COMPACTED PER SOILS REPORT.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND/OR REPLACEMENT OF ANY EXISTING SITE ELEMENTS SPECIFIED TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION OPERATIONS UNLESS PREVIOUSLY DISCUSSED WITH AND APPROVED BY THE OWNER
7. CONCRETE AND OTHER MATERIALS TO BE DEMOLISHED WITHIN THE SCOPE OF THIS PROJECT SHALL BE RECYCLED PER STATE GUIDELINES. CONTRACTOR SHALL PROVIDE EFFORT IN RECYCLING CONSTRUCTION DEBRIS GENERATED FROM THIS PROJECT.

NOTES:
CONTRACTOR TO COORDINATE STAGING AREA AND CONSTRUCTION ENTRANCE WITH OWNER BEFORE COMMENCING WORK. OWNER TO RESTORE CONSTRUCTION ENTRANCE LOCATION AFTER CONSTRUCTION IS COMPLETE.



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PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
DEMOLITION PLAN

SHEET
SK4.0
OF 16

INFORMATION SCHEDULE

SYMBOL	DESCRIPTION	DETAIL	SECTION
SP-01	4" THICK CONCRETE FLATWORK	SK11.0	
SP-02	QUARTERPIPE	15/SK11.0	R, Y
SP-03	QUARTERPIPE EXTENSION	1/SK11.1	S, W, X
SP-04	QUARTERPIPE WITH POOL COPING	16/SK11.0	U
SP-05	RADIUS WEDGE	2/SK11.1	A, I, N, V
SP-06	SPINE	3/SK11.2	T
SP-07	PANNED H	6/SK11.1	B, C
SP-08	ROLLOVER	4/SK11.1	P
SP-09	BANK TO SLAPPY CURB	2/SK11.2	D, E
SP-10	LA HIGH WALL	8/SK11.1	J, K, L
SP-11	ROLL-IN	1/SK11.2	Q
SP-12	SLAPPY GRIND LEDGE	3/SK11.1	F
SP-13	CANTILEVERED GRIND LEDGE	5/SK11.1	M, O
SP-14	FLAT GRIND RAIL	9/SK11.1	AA
SP-15	FLAT GRIND OUT RAIL	7/SK11.1	I

EJ EJ EJ

CJ KJ CJ KJ

SC CJ SC CJ

JOINTING SCHEDULE

SYMBOL	DESCRIPTION	QTY	DETAIL
H-04	EXPANSION JOINT	220 LF	
H-05	COLD JOINT / KEY JOINT	713 LF	
H-06	SAWCUT	729 LF	
H-07	SC/CJ	31 LF	
H-08	TURNDOWN EDGE AT FINISH SURFACE	117 LF	
H-09	TURNDOWN EDGE AT FINISH GRADE	334 LF	

**JOINT PLAN HAS BEEN DEVELOPED TO PROVIDE GUIDANCE TO THE CONTRACTOR FOR THE USE OF SAW CUTS, COLD & EXPANSION JOINTS. ACTUAL FIELD VARIANCES WILL TAKE PRECEDENCE OVER THIS GUIDE. CONTRACTOR SHALL CUT SLAB AS NEEDED TO MINIMIZE CRACKING.

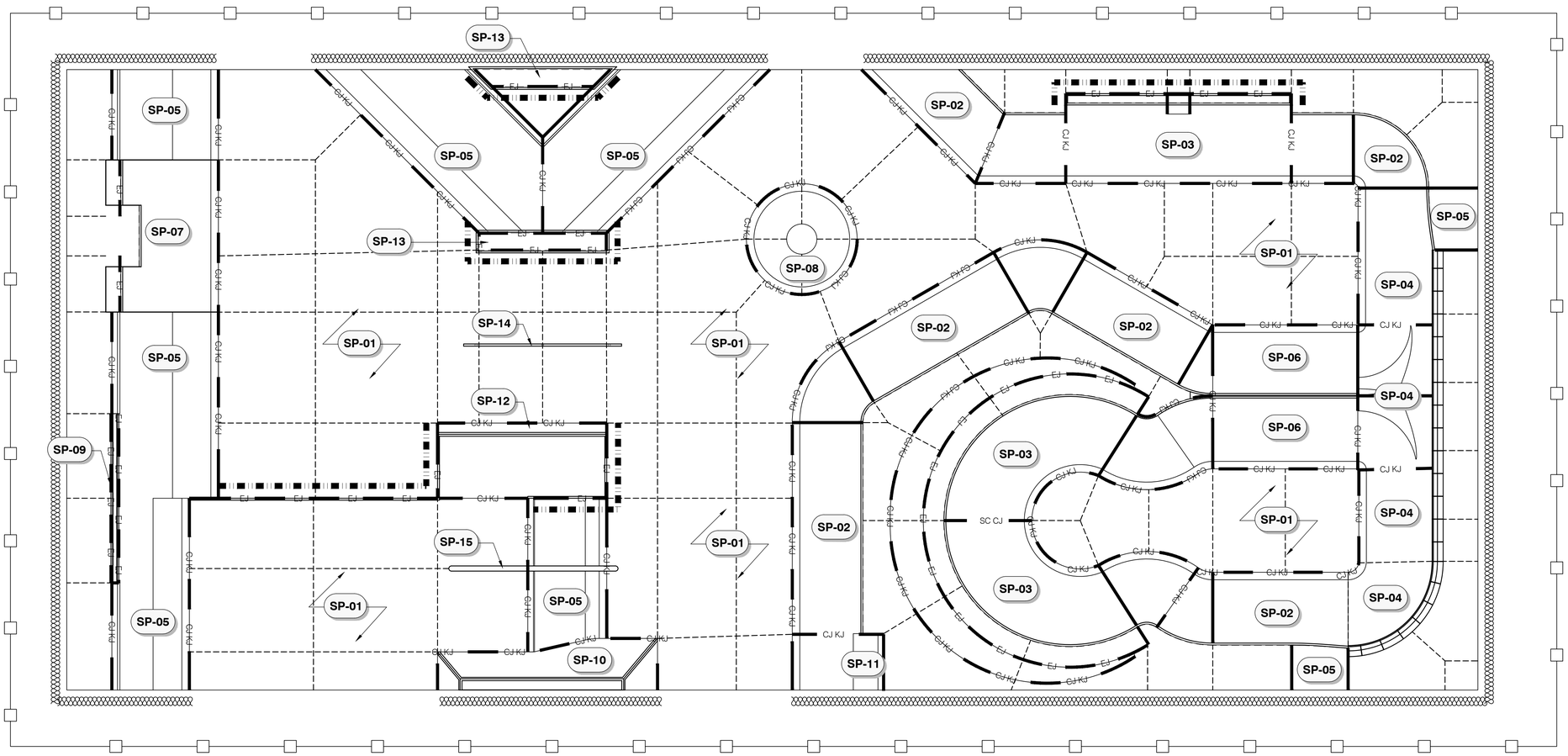
ALIGN SAW CUTS WITH EXPANSION AND COLD JOINTS AND START FROM CORNERS WHERE POSSIBLE TO PREVENT EXCESS CRACKING. SAW CUTS SHALL BE NO MORE THAN 10' X 12' AND/OR NOT TO EXCEED 120 SQUARE FEET AND A 2:1 MAX. RATIO BETWEEN SAW CUTS AND COLD OR EXPANSION JOINTS.

ALL SAW CUTS TO BE FILLED WITH SELF-LEVELING POLYURETHANE SEALANT AND TOOLED FLAT.
MASK ALL SAW CUT/CONSTRUCTION JOINT EDGES TO PROTECT SURROUNDING CONCRETE FROM EXCESS SEALANT. EXPANSION JOINTS TO BE FILLED WITH POLYURETHANE BASED NON- SAGGING ELASTOMERIC SEALANT AND TOOLED FLAT. COLOR OF CAULK SHOULD RESEMBLE COLOR OF CONCRETE (ALUMINUM GRAY OR SIMILAR)

** PROVIDE ⅛" TOOLED EDGES TO JOINTS - SEE TYPICAL DETAILS & CONSTRUCTION SPECIFICATIONS FOR JOINT INFORMATION & INSTALLATION

NOTES:

1. SEE SHEET SK8.0 FOR COLOR PLAN.
2. THE SLAB CONFIGURATION, NOTES, LOCATION OF EXPANSION JOINTS, COLD JOINTS, SAW CUTS, DETAIL REFERENCES, AND APPLICABLE DETAILS HAVE BEEN INCLUDED FOR CLARITY. JOINTS AND DETAILS SHOWN ARE FOR THE SKATEPARK ONLY.
3. SUGGESTED ORDER OF CONSTRUCTION FOR CONCRETE ELEMENTS WITHIN THE SKATEPARK FOOTPRINT:
   A. SUBSURFACE DRAINAGE
   B. SUBGRADE PREP - GRADE, MOISTURE CONDITION, AND COMPACT SKATEPARK FOOTPRINT TO +/- .1' OF SPECIFIED SUBGRADE ELEVATIONS.
   C. FINE GRADING
   D. LEDGES AND MANUAL PADS
   E. BANKS AND TRANSITIONS
   F. GRIND RAIL FOOTING INSTALLATION
   G. FLOOR SLAB/FLATWORK
4. ALL EXPOSED CONCRETE AND SHOTCRETE SURFACES TO BE NATURAL GRAY IN COLOR WITH HARD STEEL TROWEL FINISH UNLESS OTHERWISE SPECIFIED.



NORTH

0 1' 5' 10'

Scale: 3/16" = 1'-0"

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PROJECT TITLE
SNUG HARBOR SKATEPARK

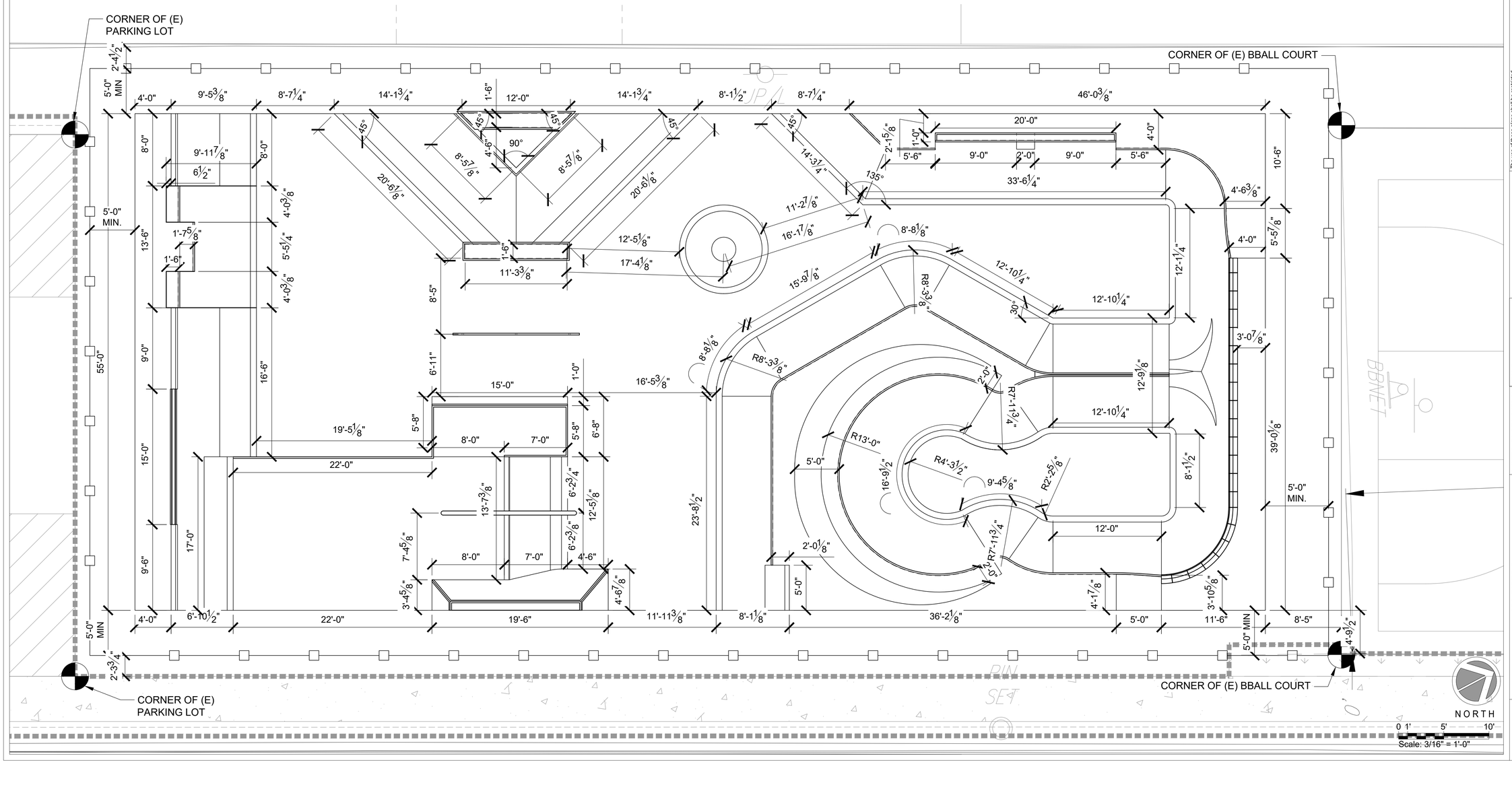
SHEET TITLE
INFORMATION PLAN

SHEET
SK5.0
OF 16

CONSTRUCTION NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE GOVERNING CODES AND ORDINANCES.
2. ALL FORMS AND ALIGNMENTS OF PAVING, LAYOUT, AND SPECIAL PAVING AREAS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO POURING (GIVE A MINIMUM OF 24 HOURS NOTICE)
3. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL PUBLIC IMPROVEMENTS, INCLUDING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN-KIND ALL PUBLIC IMPROVEMENTS DAMAGED, BROKEN, OR REMOVED DURING CONSTRUCTION
4. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS (UNLESS OTHERWISE NOTED).
5. ALL REBAR CROSSINGS TO BE TIED.
6. ALL CONSTRUCTION TO BE PLUMB AND TRUE, UNLESS OTHERWISE NOTED OR INDICATED.
7. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER/BUILDER OR OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS AND FOR SAFETY CONDITIONS AT THE WORK SITE.
9. ALL BRACING, TEMPORARY SUPPORTS, SHORING, ETC.. ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. OBSERVATION VISITS TO THE JOB SITE BY THE SPOHN RANCH OR OWNER, DO NOT INCLUDE INSPECTION OF CONSTRUCTION PROCEDURES. THE VISIT SHALL NOT BE CONSTRUED AS CONTINUOUS AND DETAILED INSPECTIONS.
11. CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED SIMILAR TO THE DETAILS FOR THE RESPECTIVE MATERIALS.
12. THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED CONSTRUCTION PRODUCT. THESE DOCUMENTS, ALTHOUGH PREPARED WITH CARE AND DILIGENCE, MAY CONTAIN ERRORS, OMISSIONS, CONTRADICTIONS, ETC. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS THOROUGHLY AND SHALL NOTIFY OWNER IMMEDIATELY UPON ANY SUCH DISCOVERY OR DISCREPANCY. GOVERNING CODES SHALL THEN APPLY.
13. ALL SCALE DIMENSIONS ARE APPROXIMATE. WRITTEN DIMENSIONS AND DETAILS TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL CHECK AND VERIFY ALL SITE DIMENSIONS PRIOR TO PROCEEDING WITH WORK AND CLARIFY WITH OWNER IF NECESSARY.
14. DURING WORK AND THROUGH ITS COMPLETION, THE CONTRACTOR SHALL KEEP THE SITE CLEAN TO THE SATISFACTION OF THE OWNER.
15. FINAL MATERIAL, FINISHES AND COLOR SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
16. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS.
17. REFER TO SPECIFICATIONS FOR ANY ADDITIONAL INFORMATION.

**ALL COLD JOINTS AT THE BOTTOM OF ALL RADIUS TRANSITIONS & RADIUS BANKS SHALL BE LOCATED 8" MAX. FROM THE POINT OF TANGENCY. SEE TYPICAL DETAILS FOR CLARIFICATION.



SPOHN RANCH SKATEPARKS
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OFFICE (626) 330-5803 ~ FAX (626) 330-5303

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NO	DATE	DESCRIPTION	BY
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STAMP:

SKATE PARK DESIGNED BY: JB, CW, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
LAYOUT PLAN

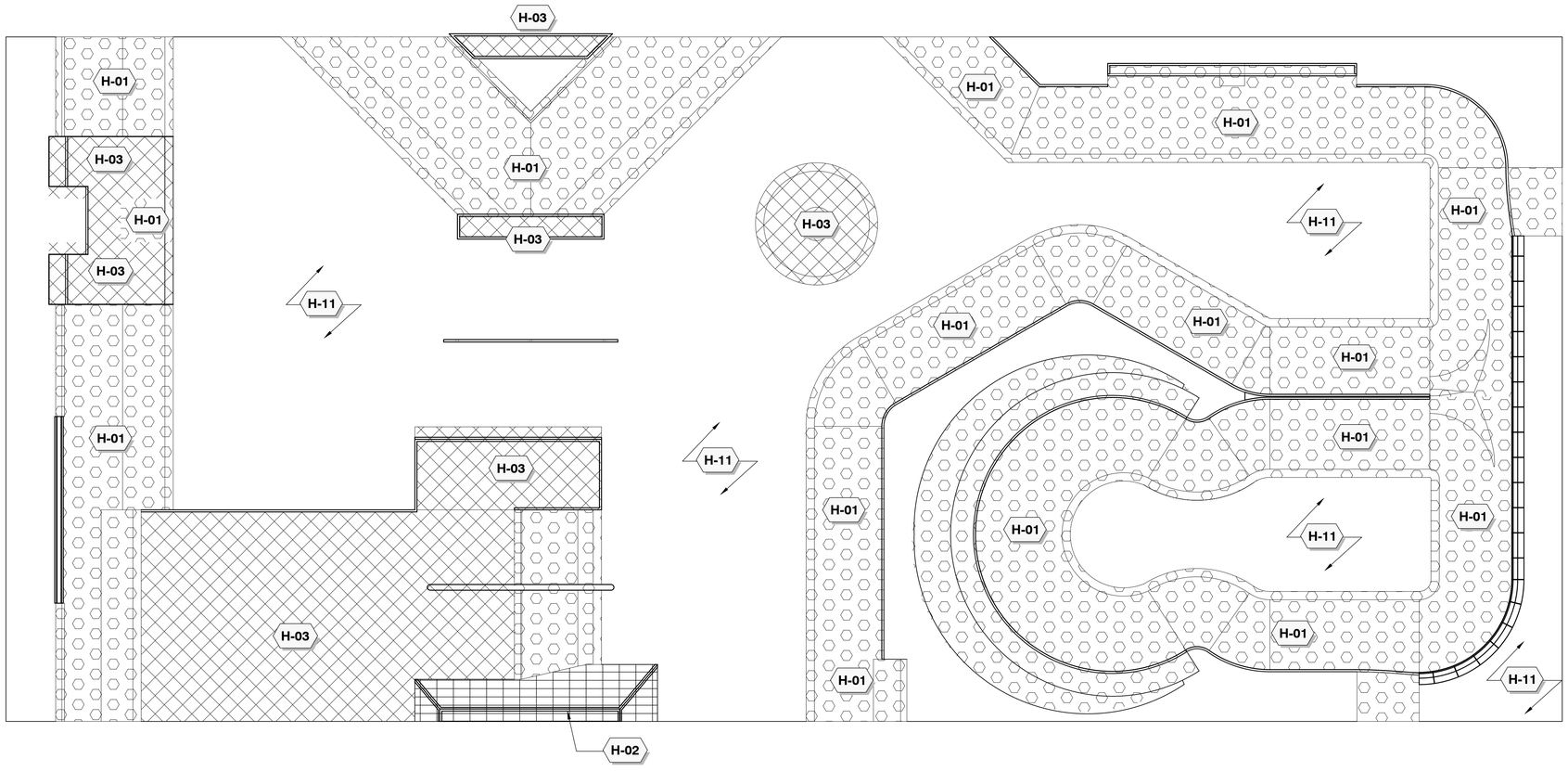
SHEET
SK6.0
OF 16

COLOR SCHEDULE

SYMBOL	DESCRIPTION	QTY
H-01	COLORED CAST-IN-PLACE CONCRETE TO BE `MESA BEIGE` SRI 42-52 BY E & A SUPPLY OR APPROVED EQUAL	2,618 SF
H-02	COLORED CAST-IN-PLACE CONCRETE TO BE BRICK STAMPED `MESA BEIGE` SRI 42-52 BY E & A SUPPLY OR APPROVED EQUAL	76 SF
H-03	COLORED CAST-IN-PLACE CONCRETE TO BE `LET`S ROLL CHARCOAL` BY E & A SUPPLY OR APPROVED EQUAL	799 SF
H-11	ALL OTHER CAST-IN-PLACE CONCRETE TO BE NATURAL GRAY IN COLOR	

NOTE:

1. CONCRETE COLOR AVAILABLE FROM EA PIGMENTS 1-631-366-3980 OR SIMILAR.
2. FINISH: ALL EXPOSED CONCRETE SURFACES ARE TO BE HARD STEEL TROWEL FINISH UNLESS OTHERWISE NOTED. TROWEL UNTIL ALL VISIBLE PORES ARE CLOSED. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT BROOM FINISH AND DO NOT TROWEL BURN SURFACE.
3. REFER TO STEEL PLAN ON SHEET SK9.0 FOR STEEL FINISH.



NORTH

0 4' 8' 16'

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

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DOCUMENTS BY: ZM, DM

PLAN CHECKED BY: DH

DATE: 11/2/2022

PROJECT TITLE: SNUG HARBOR SKATEPARK

SHEET TITLE: COLOR PLAN

SHEET: SK7.0

OF 16

GRADING NOTES

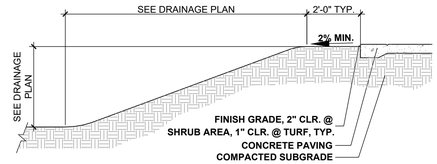
1. ALL GRADING SHALL BE IN ACCORDANCE WITH THE LOCAL GRADING CODE AND ANY SPECIAL REQUIREMENTS OF THE GRADING PERMIT.
2. CONTRACTOR TO VERIFY GRADES AND NOTIFY OWNER'S CONSTRUCTION ADMINISTRATOR PRIOR TO START OF GRADING WORK.
3. SLOPES SHALL BE NO STEEPER THAN 3' HORIZONTAL TO 1' VERTICAL (3:1) AND SHALL HAVE NOT LESS THAN 90% COMPACTION OUT TO THEIR FINISH SURFACES.
4. ALL PAVED AREAS SHALL SLOPE AS SHOWN ON PLANS WITH A 2% MAXIMUM FALL. PLANTED AREAS SHALL HAVE A MINIMUM 2% FALL.
5. FINISH GRADE SHALL HAVE A UNIFORM SURFACE, FREE OF LUMPS, BUMPS AND DEPRESSIONS AND ANY OBJECTS THAT MAY PREVENT A POSITIVE FLOW TO DRAIN.
6. ALL PROPOSED PAVING SURFACES SHALL MEET EXISTING PAVING SURFACES WITH SMOOTH AND CONTINUOUS TRANSITIONS AND FLUSH ALONG ENTIRE EDGE.
7. CONCRETE WALKS TO HAVE A MAXIMUM CROSS SLOPE OF 2% AND SHALL MEET ALL CITY AND COUNTY REQUIREMENTS.
8. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS, EXISTING DRAINAGE STRUCTURES, PARKING LOT IMPROVEMENTS, AND FINISH FLOOR ELEVATIONS. NOTIFY THE OWNER'S CONSTRUCTION ADMINISTRATOR IMMEDIATELY UPON NOTING ANY DISCREPANCIES.
9. FINISH GRADE AT TURF AREAS SHALL BE ONE INCH BELOW FINISH SURFACE OF SIDEWALKS, CURBS OR PAVED AREAS. PLANTING AREA FINISH GRADE SHALL BE 2" BELOW SAME UNLESS OTHERWISE SPECIFIED.
10. ALL CONSTRUCTION AREAS SHALL BE FREE OF ROCK, DEBRIS, ETC. ALL EXISTING WEEDS SHALL BE REMOVED.

GRADING LEGEND:

- EXISTING CONTOURS
- PROPOSED CONTOURS
- PROPOSED GRADE BREAK
- XXX.XX FS — PROPOSED ELEVATIONS
- XXX.XX — EXISTING ELEVATIONS
- PROPOSED FLOW DIRECTION
- PROPOSED 4" SDR 35 DRAIN LINE
- PROPOSED AREA DRAIN SEE 1/SK11.0

BS	BOTTOM OF STEP
FG	FINISH GRADE
FS	FINISH SURFACE
HP	HIGH POINT
INV	INVERT ELEVATION (MAY CHANGE IN FIELD)
PA	PLANTING AREA
TD	TOP OF DRAIN
TL	TOP OF LEDGE
TP	TOP OF PAD
TR	TOP OF RAIL
TS	TOP OF STEP

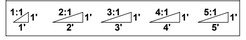
****SLOPE AREAS TO BE BLENDED IN FIELD**



NOTES

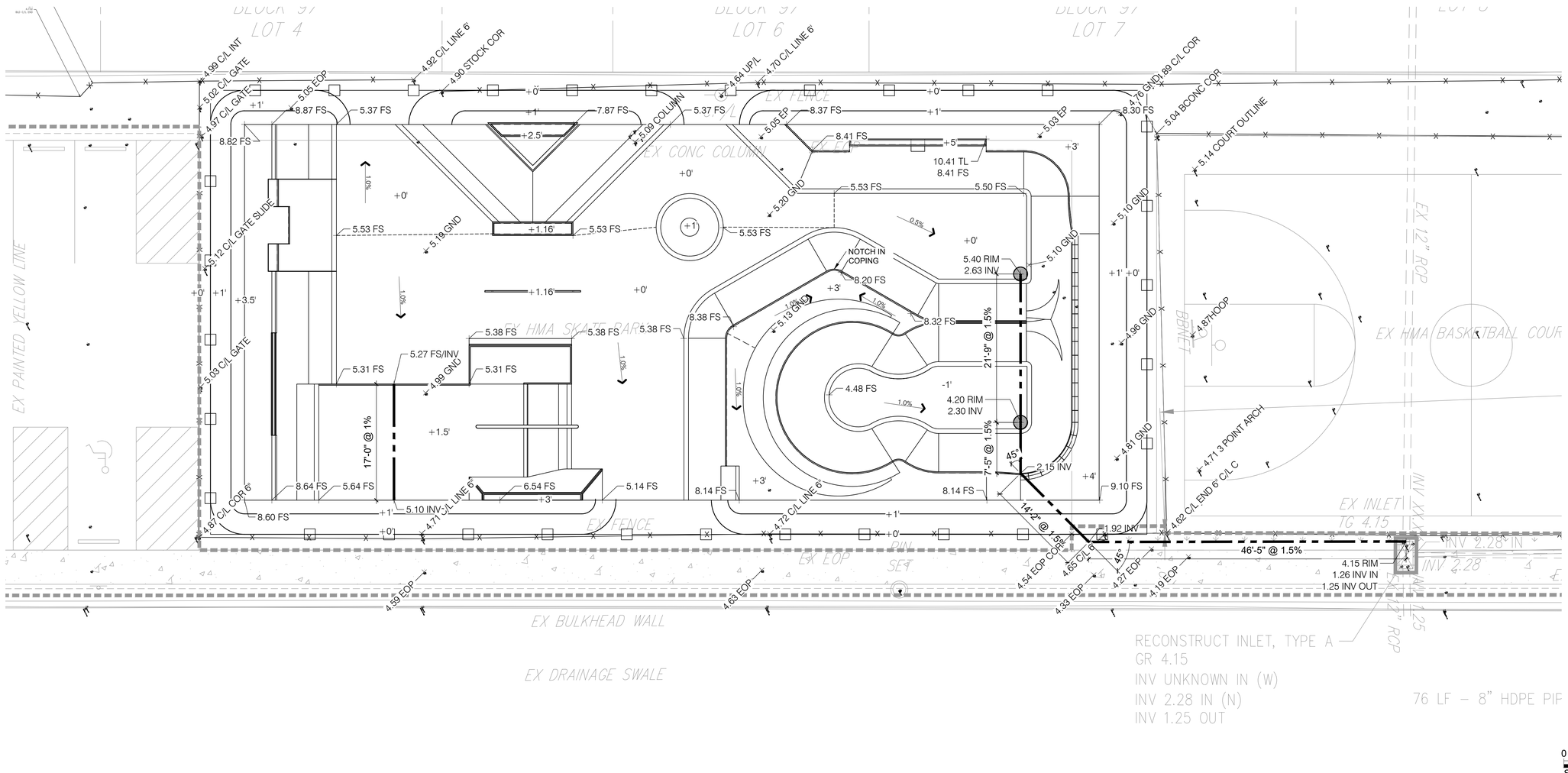
1. TYPICAL SLOPE DETAIL FOR INFORMATIONAL PURPOSES ONLY. ALL SLOPE GRADING AND DRAINAGE SHALL CONFORM TO APPROVED GRADING PLAN.

TYPICAL SLOPE FACTORS



1 TYPICAL SLOPE DETAIL

3/4" = 1'-0" P-PIP-HIGHNJ-15



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PROJECT TITLE: **SNUG HARBOR SKATEPARK**

SHEET TITLE: **GRADING + DRAINAGE PLAN**

SHEET **SK8.0**

OF 16

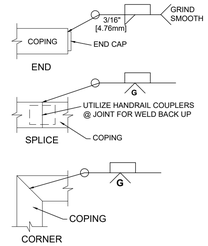
STEEL SCHEDULE

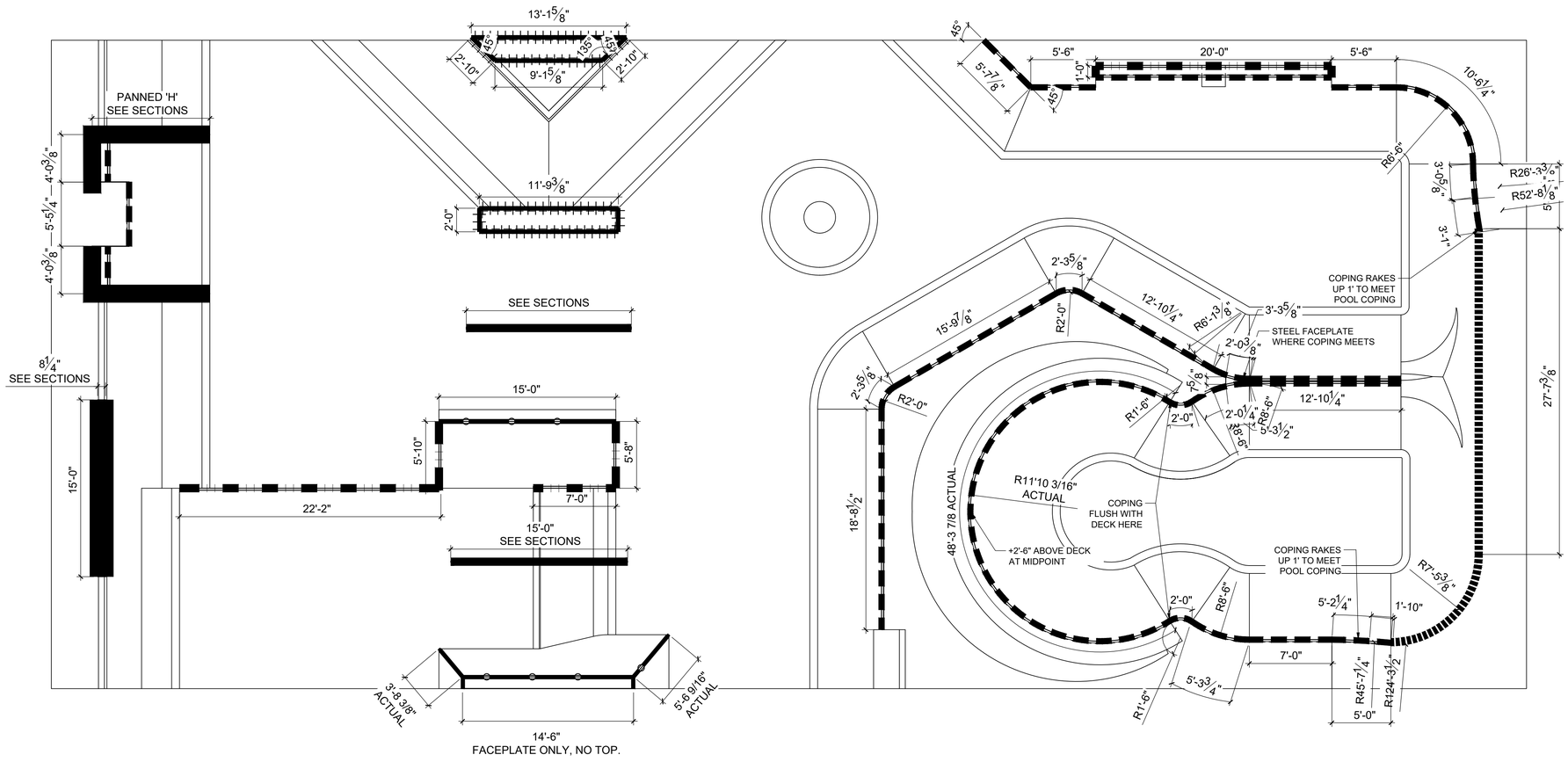
SYMBOL	DESCRIPTION	QTY	DETAIL	FINISH
S-01	2-3/8" O.D. SCH. 40 STEEL COPING	220 LF	11/SK11.0	HOT DIPPED GALVANIZED
S-02	1.5" X 2" X 3/16" THK. STEEL EDGING	62 LF	12/SK11.0	POWDER COAT RAL #5012
S-03	2" STEEL STRAP	39 LF	13/SK11.0	POWDER COAT RAL #5012
S-04	2" X 5" X 3" X .125" THK. CANTILEVER STEEL EDGING	56 LF	14/SK11.0	POWDER COAT RAL #5012
S-05	GRIND RAIL	29 LF	7/SK11.1 9/SK11.1 10/SK11.1	POWDER COAT RAL #5012
S-06	PANNED STEEL	57 LF	6/SK11.1 2/SK11.2	POWDER COAT RAL #5012
S-07	POOL COPING	39 LF	17/SK11.0	

NOTES :

1. STEEL FINISH TO BE HOT DIPPED GALVANIZED OR POWDER COATED RAL #5012 (LIGHT BLUE) AS INDICATED IN LEGEND FINISH.
2. FINISH MUST OCCUR AFTER ALL WELDING IS COMPLETE.
3. CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES.
4. ALL WELDS TO BE ALL AROUND.
5. GRIND ALL WELDS SMOOTH BEFORE FINISHING.
6. FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
7. CLEAN METAL EDGES AFTER PLACEMENT OF CONCRETE.
8. POWDER COATING REPAIR - USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.
9. HOT DIPPED GALVANIZE REPAIR - FIELD WELDS SHALL BE GROUND SMOOTH AND TREATED WITH COLD GALVANIZING SPRAY.
10. SEE SHEET SK3.0 FOR SKATEPARK STEEL SPECIFICATIONS

COPING / RAIL JOINT WELDS





NORTH

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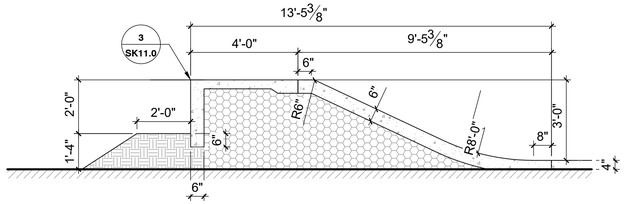
PROJECT TITLE: SNUG HARBOR SKATEPARK

SHEET TITLE: STEEL PLAN

SHEET: SK9.0

OF 16



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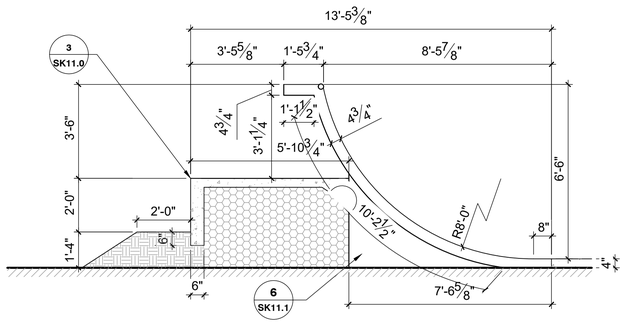

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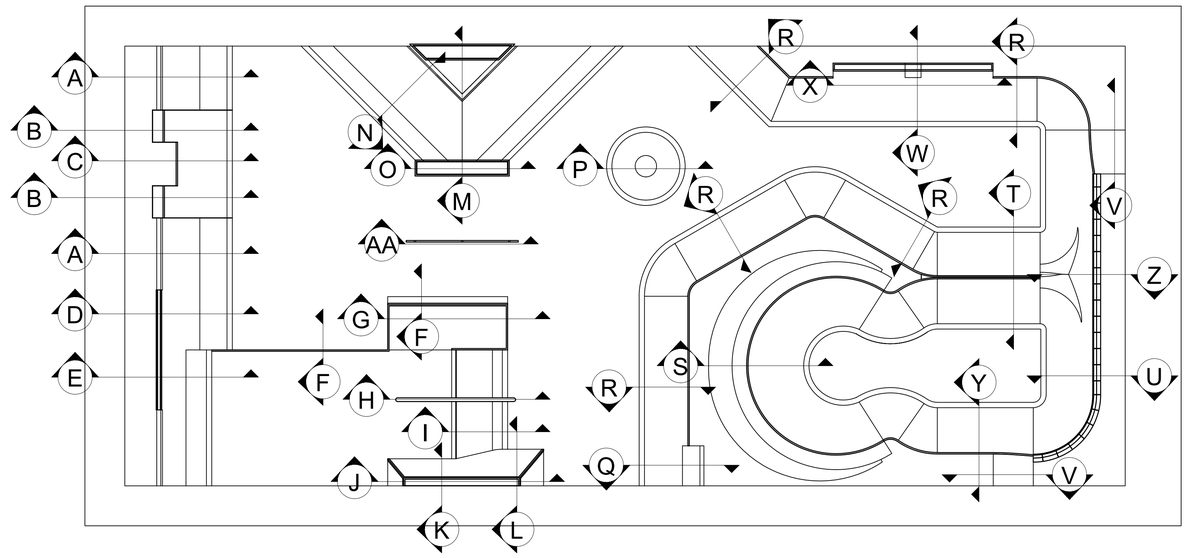

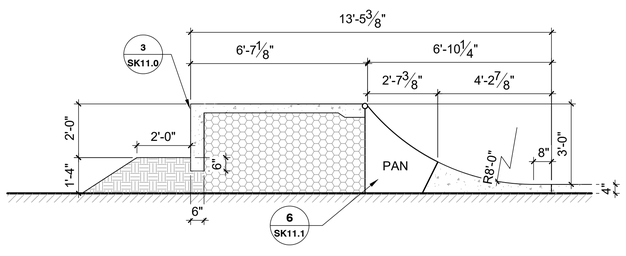

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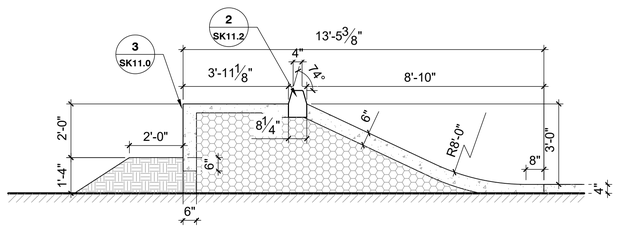

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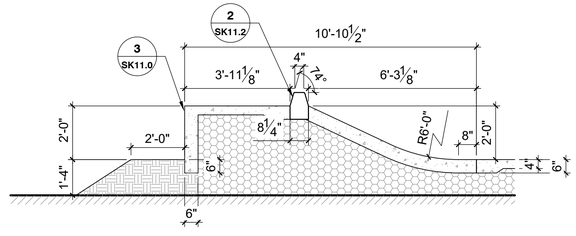

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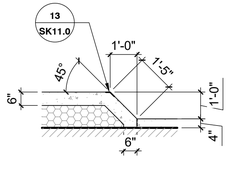

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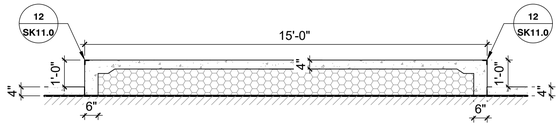

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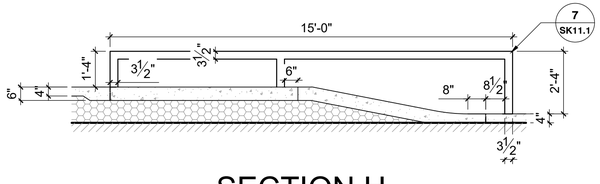

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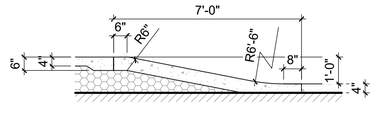

SECTION I

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Scale: 3/8" = 1'-0"

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SHEET TITLE
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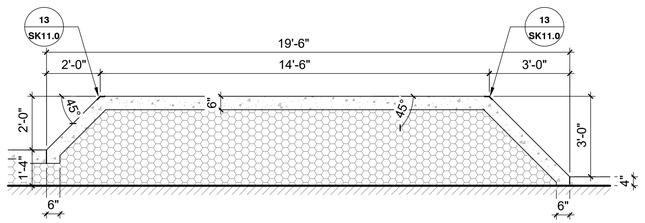
SK10.0
OF 16



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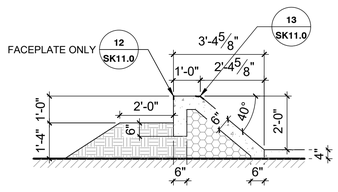

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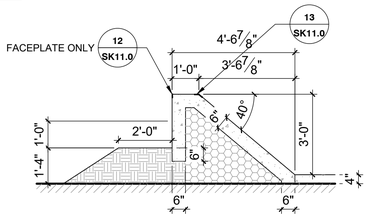

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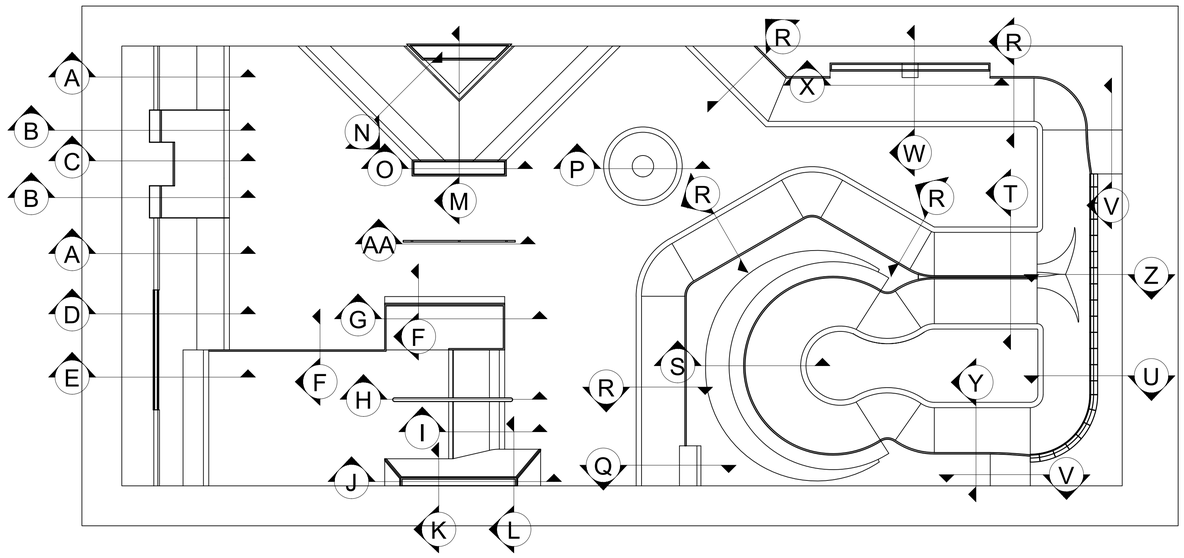

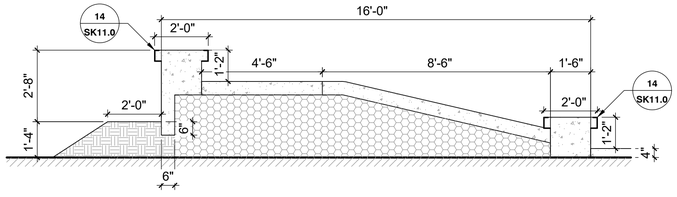

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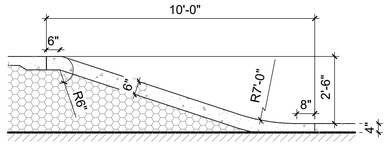

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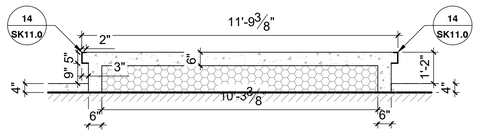

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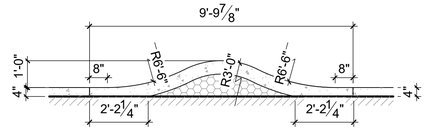

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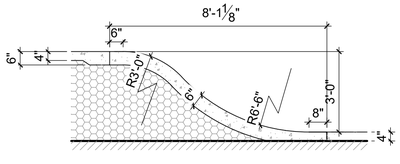

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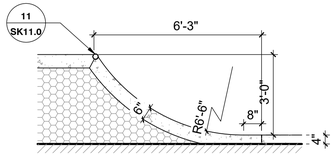

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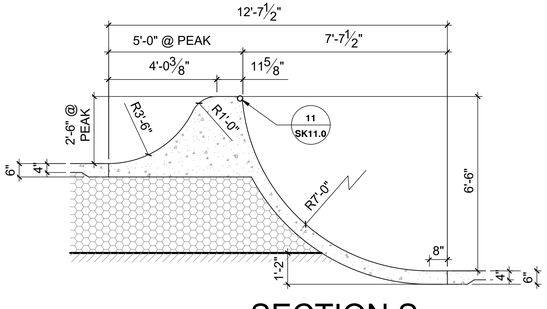

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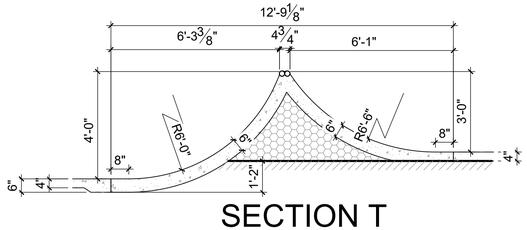

SECTION T

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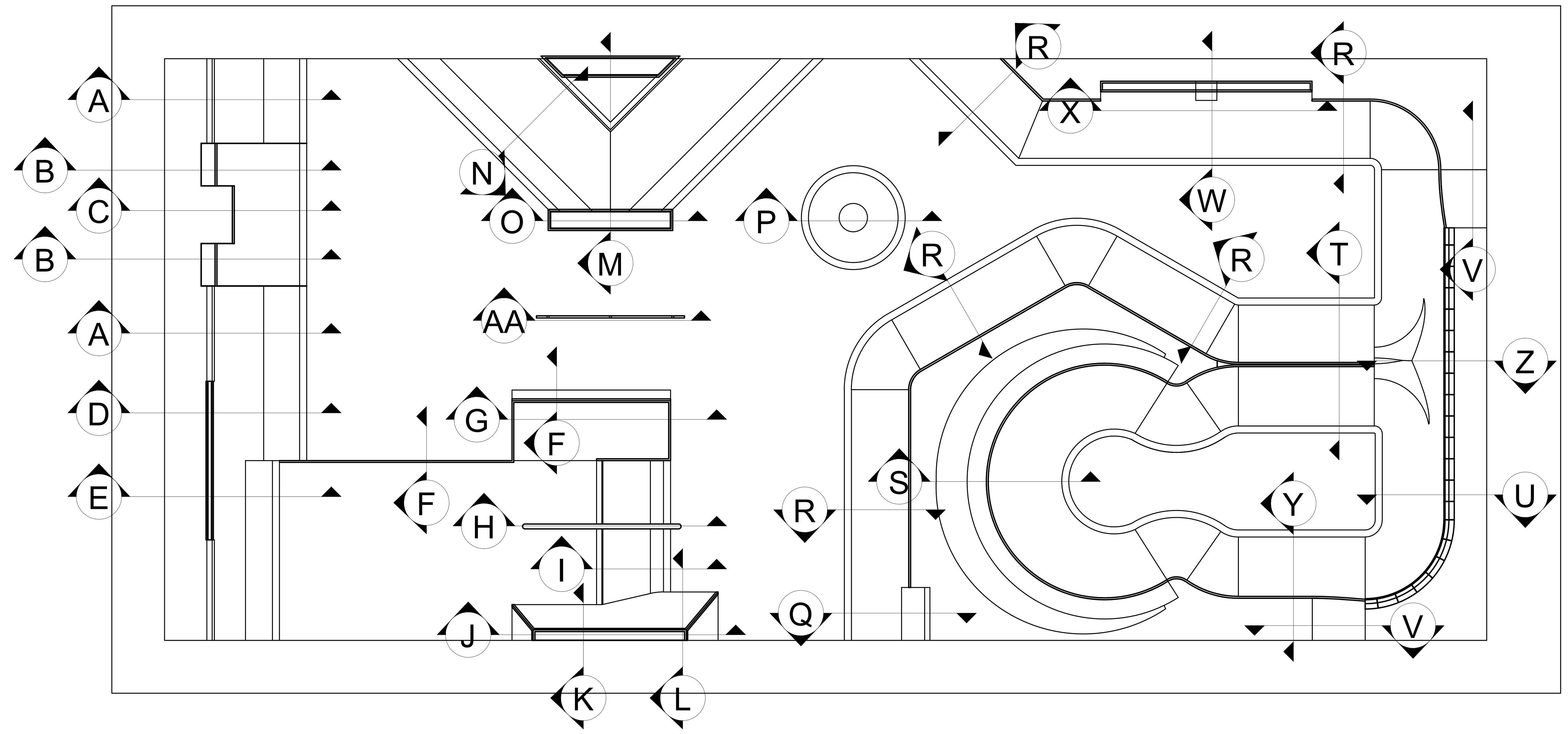
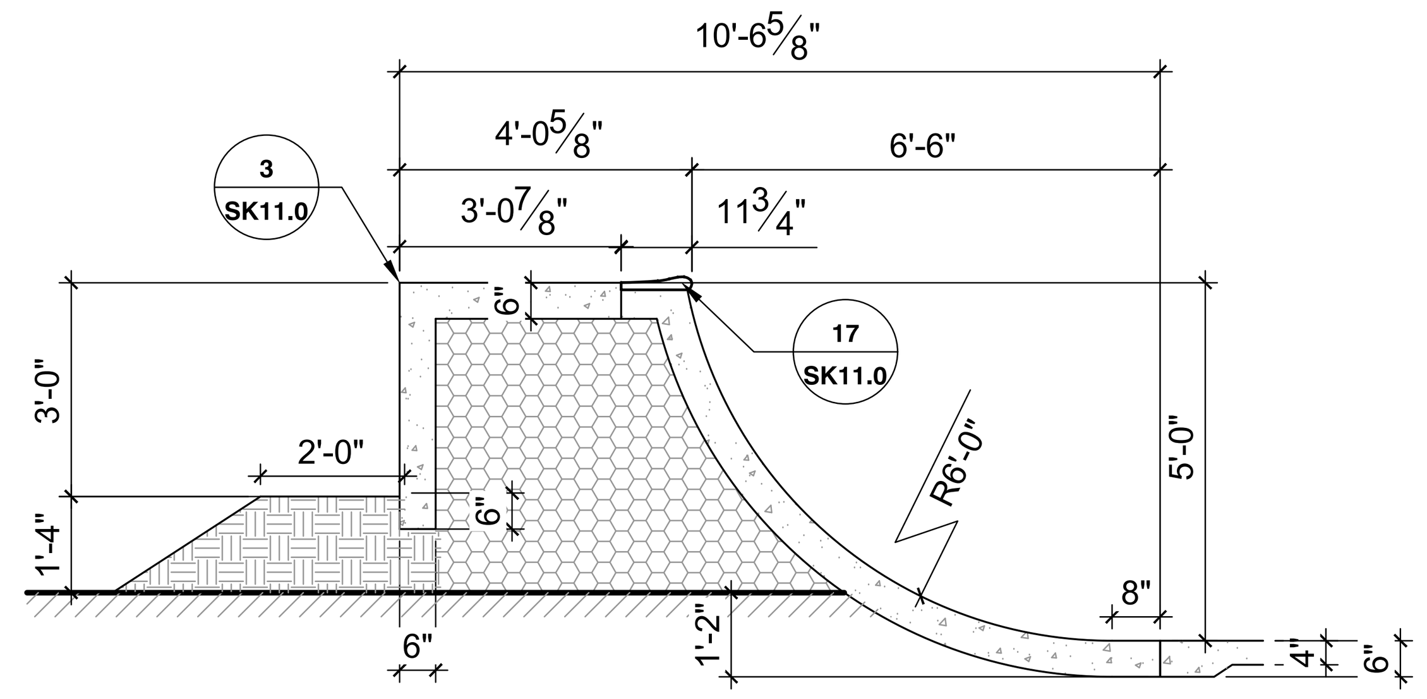
OF 16





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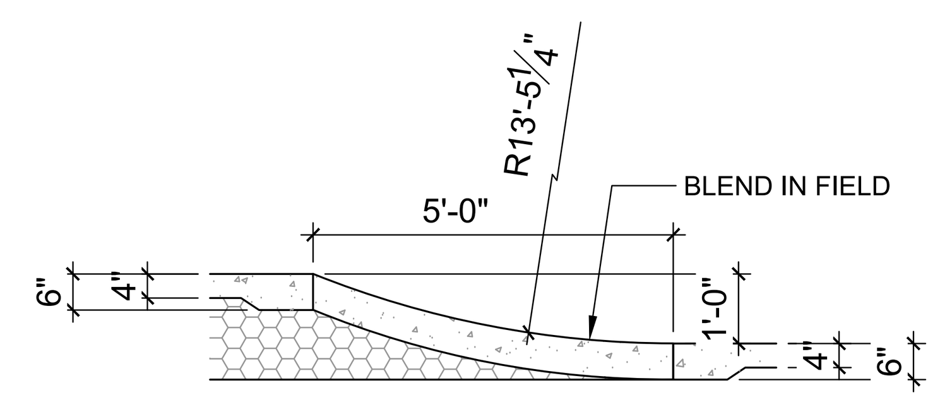

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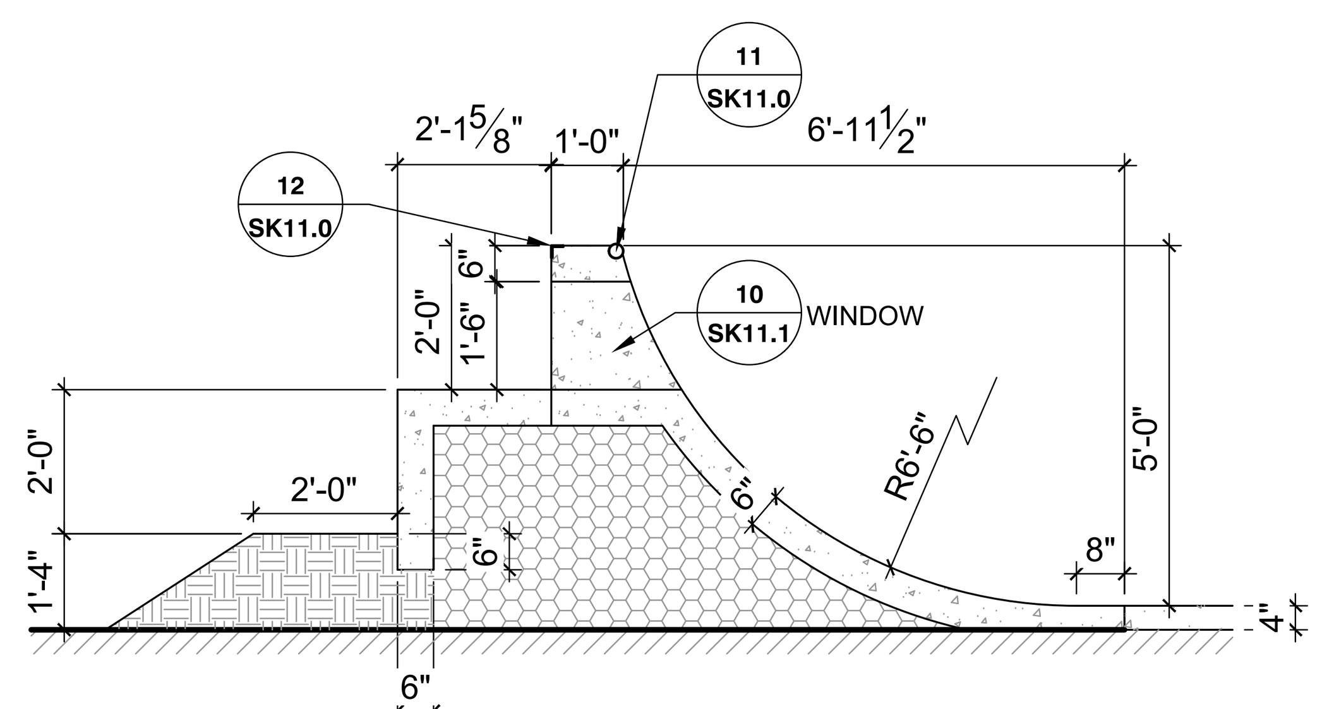

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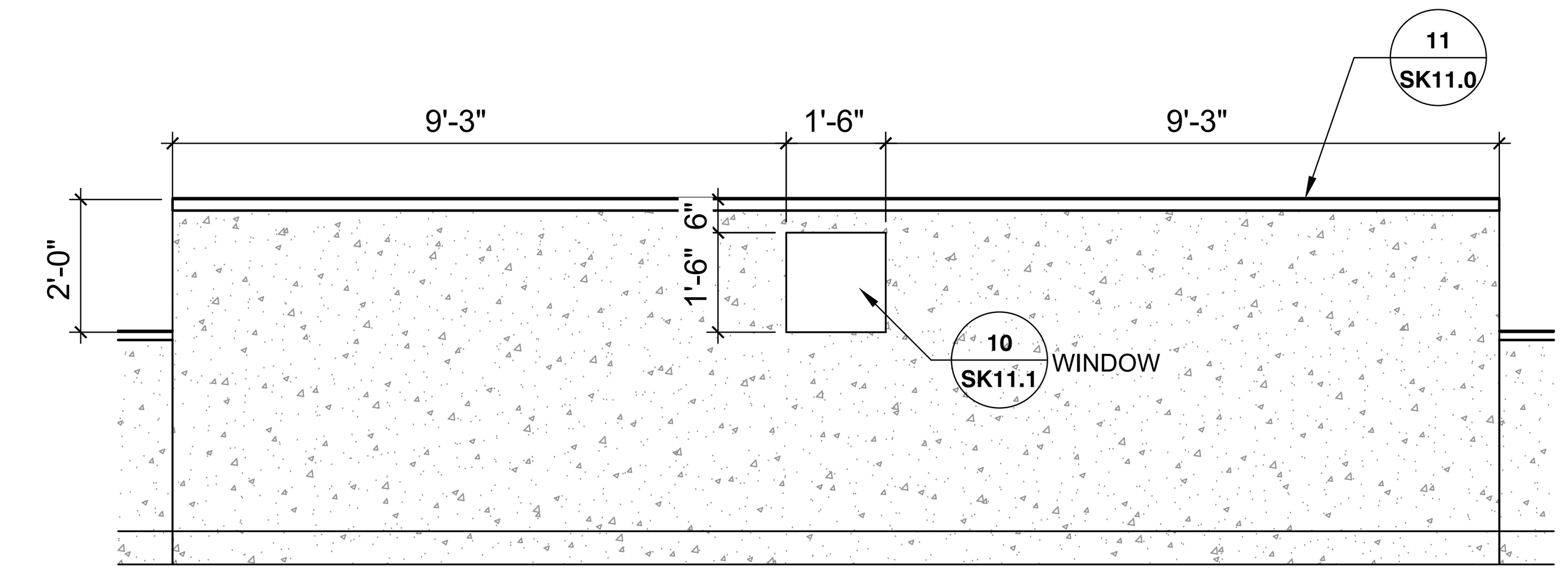

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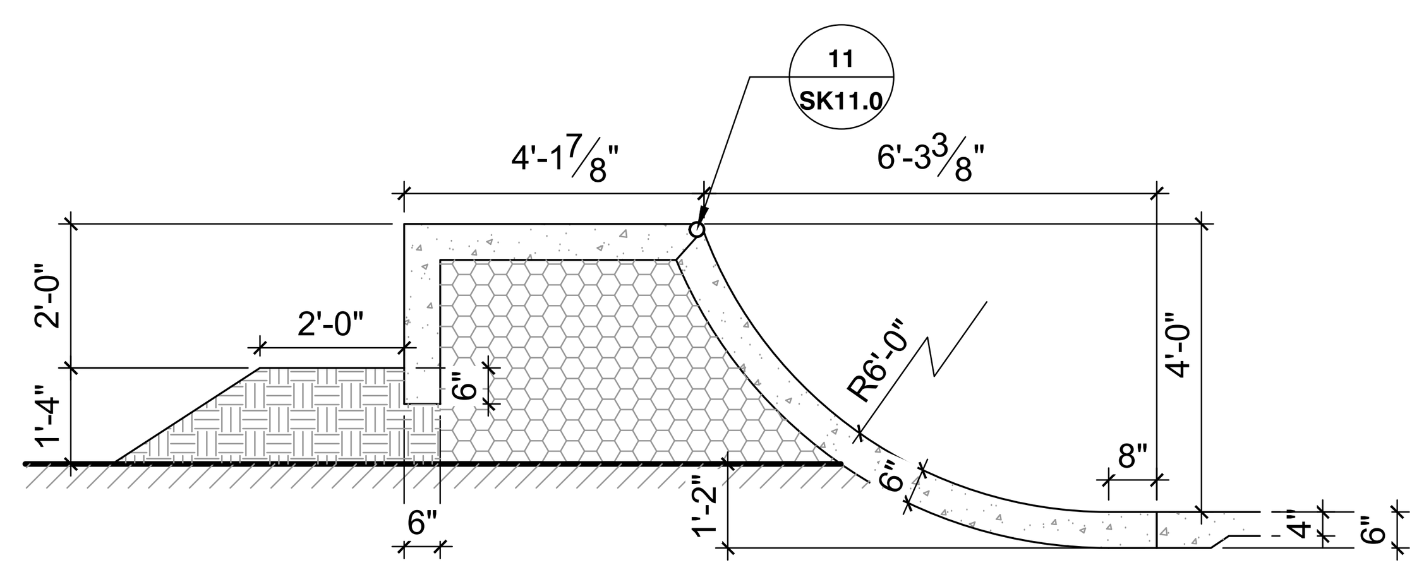
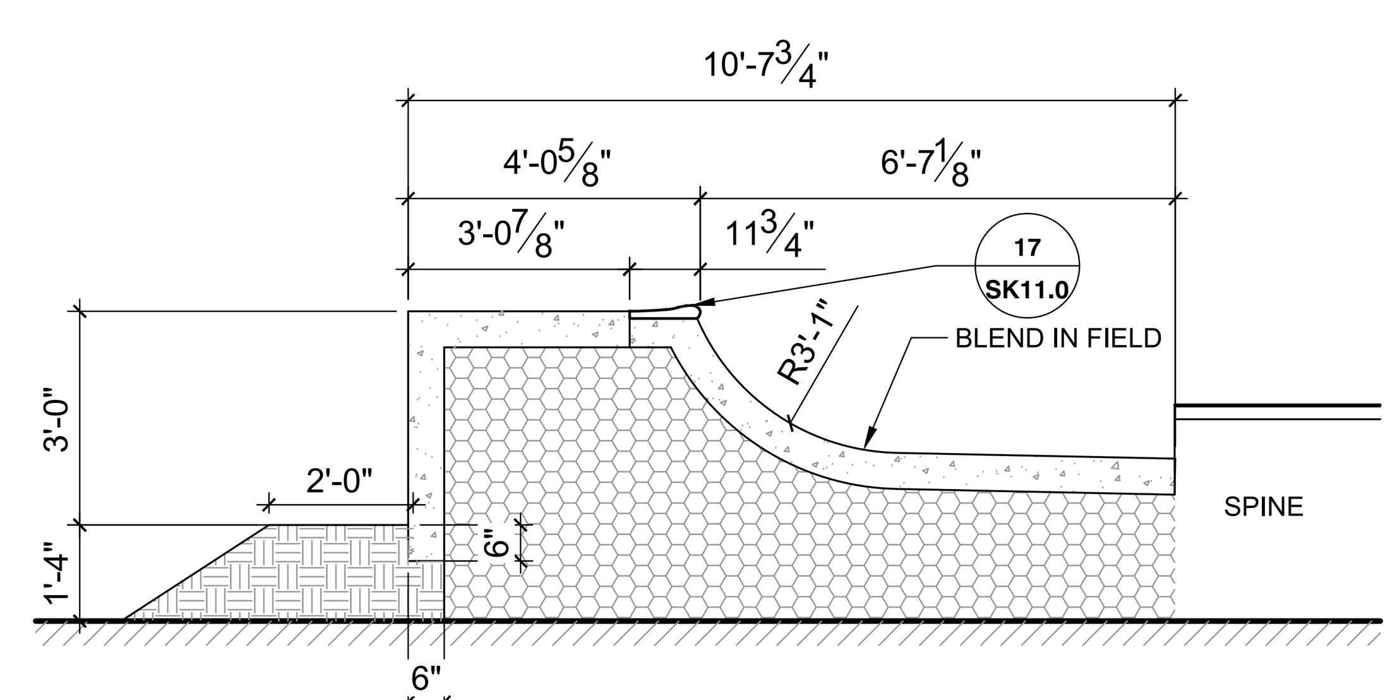
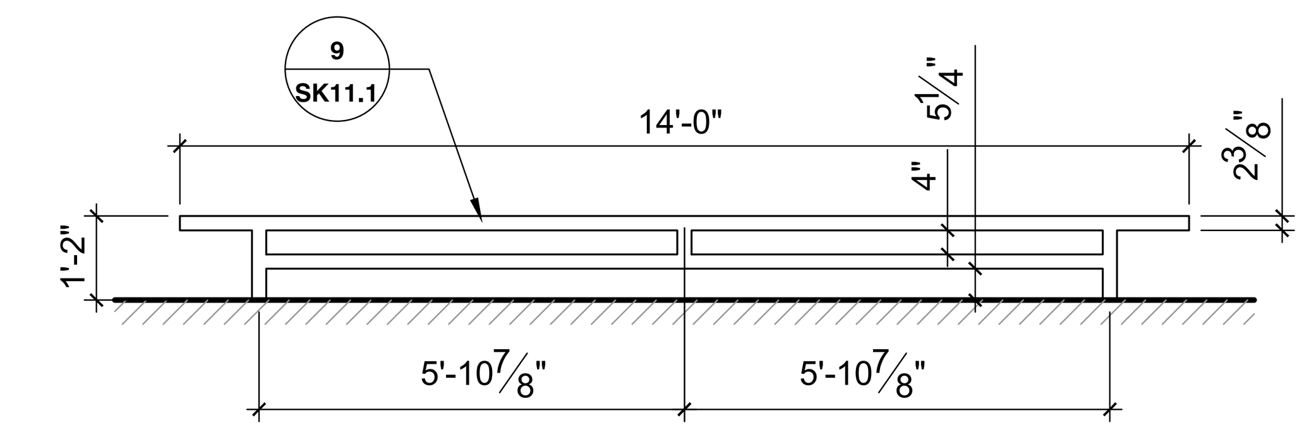


SECTION Y



SECTION Z



SECTION AA

0 1' 2' 4'

Scale: 3/8" = 1'-0"

SPOHN RANCH
SKATEPARKS
DESIGN. BUILD. COME TOGETHER.
6824 S. CENTINELA AVE - LOS ANGELES, CA 90230
OFFICE (626) 330-5803 ~ FAX (626) 330-5503

REVISIONS

NO	DATE	DESCRIPTION	BY
	-	-	-
	-	-	-
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SKATE PARK DESIGNED BY: JB, CW, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

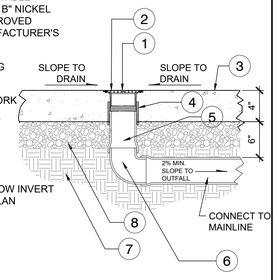
STAMP:

PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
SECTIONS

SHEET
SK10.2
OF 16

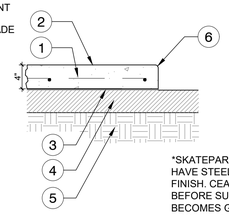
1. ZURN FD2210-PV4-NT ADJUSTABLE FLOOR DRAIN WITH 5" "TYPE B" NICKEL BRONZE STRAINER, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TOP OF DRAIN. SEE GRADING PLAN FOR ELEVATION
3. 4000 PSI CONCRETE FLATWORK
4. 4" ADJUSTABLE PVC OUTLET CONNECTION
5. DRAIN LINE. SEE DRAINAGE PLAN FOR SIZE
6. PVC DRAINLINE, 90 DEG ELBOW INVERT ELEVATION PER GRADING PLAN
7. COMPACTED SUB-GRADE
8. BASE COURSE



1 AREA DRAIN

3/4" = 1'-0" P-PIP-HIGHNJ-22

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLAT WORK
3. 6 MIL PLASTIC SHEETING
4. EXISTING PAVEMENT
5. EXISTING SUB-GRADE
6. 1/2" TOOLED EDGE ONLY AT F.S. EDGE



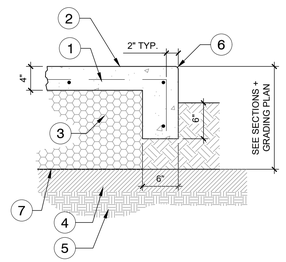
*SKATEPARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

2 CAPPED SLAB EDGE

1" = 1'-0" P-PIP-HIGHNJ-18

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLAT WORK
3. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
4. EXISTING PAVEMENT
5. EXISTING SUB-GRADE
6. 1/2" TOOLED EDGE OR STEEL EDGING. SEE STEEL PLAN FOR LOCATION
7. 6 MIL PLASTIC SHEETING

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

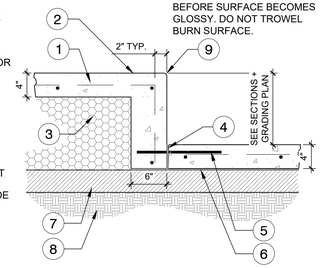


3 PERIMETER TURNDOWN EDGE

1" = 1'-0" P-PIP-HIGHNJ-09

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLAT WORK
3. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
4. EXPANSION JOINT
5. SLIP DOWEL
6. 6 MIL PLASTIC SHEETING
7. EXISTING PAVEMENT
8. EXISTING SUB-GRADE
9. 1/2" TOOLED EDGE OR STEEL EDGING. SEE STEEL PLAN FOR LOCATION

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

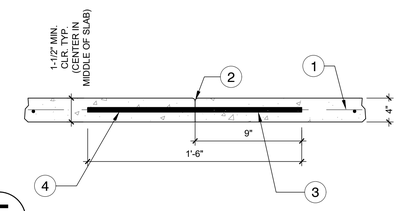


4 TURNDOWN EDGE - CAPPED

1" = 1'-0" P-PIP-HIGHNJ-83

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. COLD OR EXPANSION JOINT
3. SLEEVE FOR SLIP DOWEL OR WRAP/GREASE ONE END
4. 1/2" SMOOTH DOWEL OR REBAR DROP. SPACE 2'-6" O.C. ALONG JOINT

*SKATEPARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

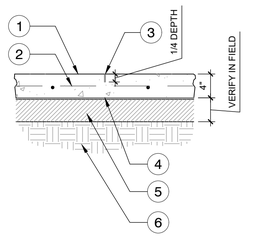


5 SLIP DOWEL

1" = 1'-0" P-PIP-HIGHNJ-24

1. 4000 PSI CONCRETE FLAT WORK
2. #3 REBAR @ 16" O.C. BOTH WAYS
3. 1/8" SAWCUT - FILL JOINT WITH SELF LEVELING SEALANT AND TOOL FLAT
4. 6 MIL PLASTIC SHEETING
5. EXISTING PAVEMENT
6. EXISTING SUBGRADE

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

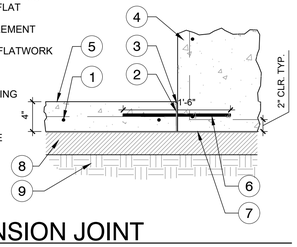


6 SAWCUT JOINT - CAPPED

1" = 1'-0" P-PIP-HIGHNJ-59

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. PRE-COMPRESSED EXPANSION MATERIAL
3. EXPANSION JOINT 1/8" TOOLED EDGE -APPLY POLYURETHANE BASED NON-SAGGING ELASTOMERIC SEALANT AND TOOL FLAT
4. CONCRETE SKATE ELEMENT
5. 4000 PSI CONCRETE FLATWORK
6. SLIP DOWEL
7. 6 MIL PLASTIC SHEETING
8. EXISTING PAVEMENT
9. EXISTING SUB-GRADE

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

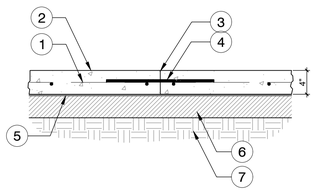


7 EXPANSION JOINT

1" = 1'-0" P-PIP-HIGHNJ-26

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK
3. COLD JOINT - 1/8" TOOLED EDGE BOTH SIDES
4. SLIP DOWEL
5. 6 MIL PLASTIC SHEETING
6. EXISTING PAVEMENT
7. EXISTING SUB-GRADE

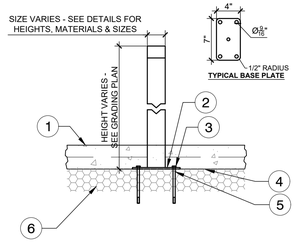
*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.



8 COLD JOINT - CAPPED

1" = 1'-0" P-PIP-HIGHNJ-11

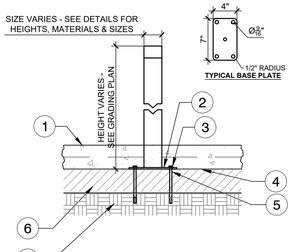
1. CONCRETE FLAT WORK
2. 1/4" x 4" x 7" STEEL BASE PLATE -LONG EDGE OF BASE PLATE TO BE PLACED PERPENDICULAR TO GRIND RAIL
3. 3/8" X 1" S.S. BUTTON HEAD CAP SCREW (x4) PER BASE PLATE
4. 6 MIL PLASTIC SHEETING
5. 6" x 3/8" LAG BOLTS
6. STRUCTURAL FOAM TO BE EPS15 OR SIMILAR



9 GRIND RAIL BASEPLATE - FOAM

1" = 1'-0" P-PIP-HIGHNJ-20

1. CONCRETE FLAT WORK
2. 1/4" x 4" x 7" STEEL BASE PLATE -LONG EDGE OF BASE PLATE TO BE PLACED PERPENDICULAR TO GRIND RAIL
3. 3/8" X 1" S.S. BUTTON HEAD CAP SCREW (x4) PER BASE PLATE
4. 6 MIL PLASTIC SHEETING
5. 6" x 3/8" LAG BOLTS
6. EXISTING ASPHALT
7. EXISTING SUBGRADE

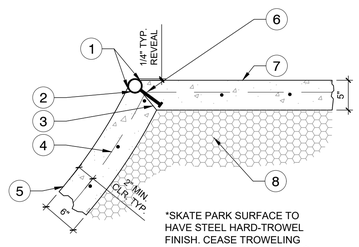


10 GRIND RAIL BASEPLATE - ASHPALT

1" = 1'-0" P-PIP-HIGHNJ-102

1. 1/8" TOOLED EDGE BOTH SIDES OF COPING
2. STEEL COPING - SEE STEEL PLAN FOR LOCATION
3. CONSTRUCTION JOINT HAND SHAPED PRIOR TO CONCRETE CURING
4. TYPICAL STEEL REINFORCEMENT
5. BOWL TRANSITION
6. COPING ANCHOR, 3/8" X 4" MIN. NELSON STUD OR SIMILAR@ 18" O.C.
7. 4000 PSI CONCRETE FLAT WORK
8. EPS15 STRUCTURAL FOAM

NOTES:
- GRIND RAIL FINISH TO BE POWDER COATED RAL #5012 (LIGHT BLUE)
- POWDER COATING MUST OCCUR AFTER ALL WELDING IS COMPLETE
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING
- VENT ADEQUATELY FOR POWDER COATING
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
- POWDER COATING REPAIR—USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.

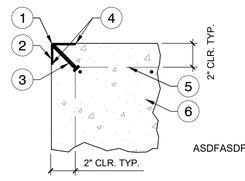


*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

11 STEEL COPING - FOAM

1" = 1'-0" P-PIP-HIGHNJ-14

1. 1/8" MIN. ROUTED EDGE GROUND SMOOTH
2. 1.5" x 2" x 3/16" THICK STEEL EDGING -SEE STEEL PLAN FOR LOCATION
3. COPING ANCHOR, 3/8" X 4" MIN. NELSON STUD OR SIMILAR @ 18" O.C.
4. 1/8" TOOLED EDGE BOTH SIDES
5. TYPICAL STEEL REINFORCEMENT
6. SKATE ELEMENT



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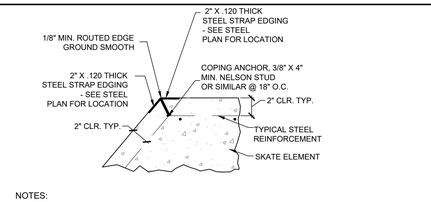
NOTES:
- STEEL FINISH TO BE POWDER COATED RAL #5012 (LIGHT BLUE).
- POWDER COATING MUST OCCUR AFTER ALL WELDING IS COMPLETE.
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND.
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING.
- VENT ADEQUATELY FOR POWDER COATING.
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
- POWDER COATING REPAIR - USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.

12 STEEL EDGING

1" = 1'-0" P-PIP-HIGHNJ-84

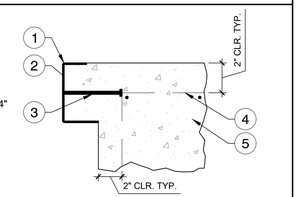


NOTES:
- STEEL FINISH TO BE POWDER COATED RAL #5012 (LIGHT BLUE).
- POWDER COATING MUST OCCUR AFTER ALL WELDING IS COMPLETE.
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND.
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING.
- VENT ADEQUATELY FOR POWDER COATING.
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
- POWDER COATING REPAIR - USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.

13 STEEL STRAP

3/4" = 1'-0" P-PIP-HIGHNJ-29

1. 1/8" MIN. ROUTED EDGE GROUND SMOOTH
2. 2" X 5" X 3" X .125 THICK STEEL EDGING -SEE STEEL PLAN FOR LOCATION
3. COPING ANCHOR, 3/8" X 4" MIN. NELSON STUD OR SIMILAR @ 18" O.C.
4. TYPICAL STEEL REINFORCEMENT
5. SKATE ELEMENT



NOTES:
- STEEL FINISH TO BE POWDER COATED RAL #5012 (LIGHT BLUE).
- POWDER COATING MUST OCCUR AFTER ALL WELDING IS COMPLETE.
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND.
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING.
- VENT ADEQUATELY FOR POWDER COATING.
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
- POWDER COATING REPAIR - USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.

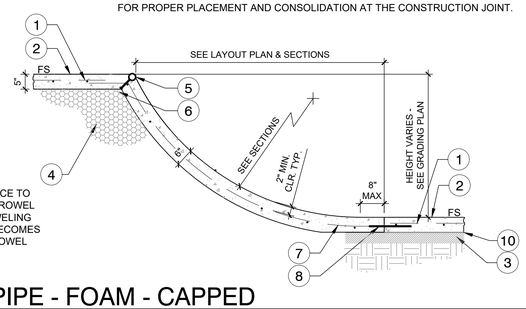
14 CANTILEVERED STEEL EDGING

1" = 1'-0" P-PIP-HIGHNJ-30

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK*
3. EXISTING PAVEMENT
4. EPS15 STRUCTURAL FOAM
5. STEEL COPING
6. CONSTRUCTION JOINT
7. 4000 PSI SHOTCRETE* WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
8. SLIP DOWEL
9. COLD JOINT
10. 6 MIL PLASTIC SHEETHING

CONSTRUCTION NOTE: WHEN BUILDING SLAB/DECK BEHIND COPING CONSTRUCTION JOINT, FIRST SATURATE SURFACE DRY (SSD) PREVIOUSLY PLACED CONCRETE MATERIAL AND THEN UTILIZE SHOTCRETE PLACEMENT METHOD FOR THE INITIAL FRESH MATERIAL TO THE EXISTING MATERIAL OF DECK/SLAB BEHIND COPING FOR PROPER PLACEMENT AND CONSOLIDATION AT THE CONSTRUCTION JOINT.

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

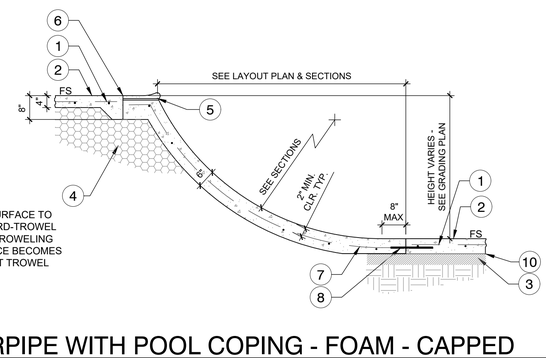


15 TYPICAL QUARTER PIPE - FOAM - CAPPED

1/2" = 1'-0" P-PIP-HIGHNJ-75

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK*
3. EXISTING PAVEMENT
4. EPS15 STRUCTURAL FOAM
5. CONCRETE POOL COPING
6. EXPANSION JOINT
7. 4000 PSI SHOTCRETE* WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
8. SLIP DOWEL
9. COLD JOINT
10. 6 MIL PLASTIC SHEETHING

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE



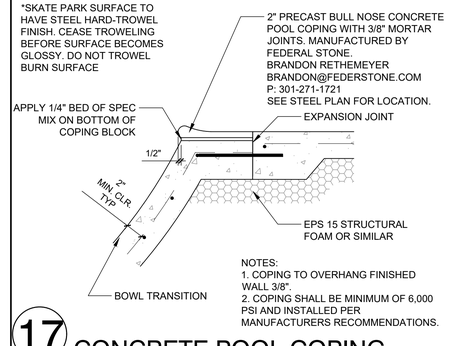
16 TYPICAL QUARTERPIPE WITH POOL COPING - FOAM - CAPPED

1/2" = 1'-0" P-PIP-HIGHNJ-98

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

APPLY 1/4" BED OF SPEC MIX ON BOTTOM OF COPING BLOCK

2" PRECAST BULL NOSE CONCRETE POOL COPING WITH 3/8" MORTAR JOINTS. MANUFACTURED BY FEDERAL STONE. BRANDON RETHEMEYER BRANDON@FEDERSTONE.COM P: 301-271-1721 SEE STEEL PLAN FOR LOCATION.



NOTES:
1. COPING TO OVERHANG FINISHED WALL 3/8".
2. COPING SHALL BE MINIMUM OF 6,000 PSI AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

17 CONCRETE POOL COPING

1" = 1'-0" P-PIP-HIGHNJ-97

SPOHN RANCH SKATEPARKS
DESIGN. BUILD. COME TOGETHER.
6824 S. CENTINELA AVE - LOS ANGELES, CA 90230
OFFICE (626) 330-5803 ~ FAX (626) 330-5503

REVISIONS

NO	DATE	DESCRIPTION	BY
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-	-	-	-
-	-	-	-
-	-	-	-

STAMP:

SKATE PARK DESIGNED BY: JB, CV, ZM
DOCUMENTS BY: ZM, DM
PLAN CHECKED BY: DH
DATE: 11/2/2022

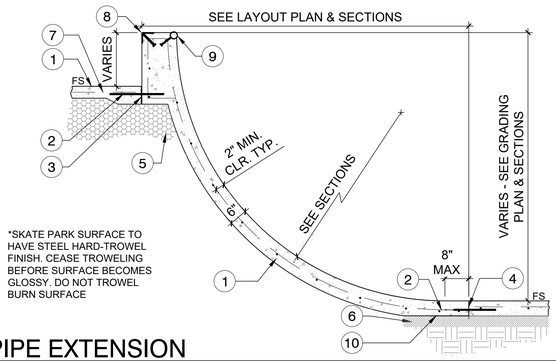
PROJECT TITLE: SNUG HARBOR SKATEPARK

SHEET TITLE: CONSTRUCTION DETAILS

SHEET SK11.0

OF 16

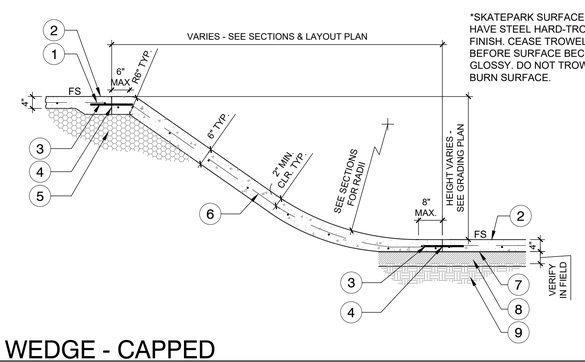
1. 4000 PSI SHOTCRETE WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
2. SLIP DOWEL
3. EXPANSION JOINT
4. COLD JOINT
5. EPS15 STRUCTURAL FOAM
6. EXISTING SLAB
7. #3 REBAR @ 16" O.C. BOTH WAYS
8. STEEL EDGING
9. STEEL COPING
10. 6 MIL PLASTIC SHEETHING



1 TYPICAL QUARTER PIPE EXTENSION

1/2" = 1'-0" P-PIP-HIGHNJ-43

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK*
3. SLIP DOWEL
4. COLD JOINT
5. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
6. 4000 PSI CONCRETE* WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
7. 6 MIL PLASTIC SHEETING
8. EXISTING PAVEMENT
9. EXISTING SUB-GRADE

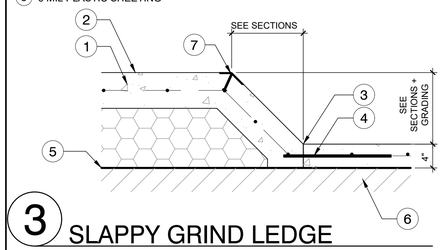


2 TYPICAL RADIUS WEDGE - CAPPED

1/2" = 1'-0" P-PIP-HIGHNJ-54

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK*
3. COLD JOINT - 1/8" TOOLED EDGE BOTH SIDES
4. SLIP DOWEL
5. 6 MIL PLASTIC SHEETING
6. EXISTING PAVEMENT
7. STEEL STRAP

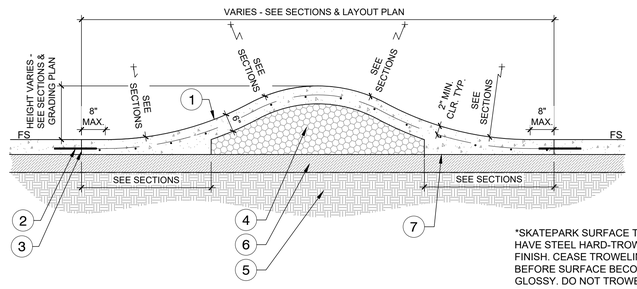
*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.



3 SLAPPY GRIND LEDGE

1" = 1'-0" P-PIP-HIGHNJ-100

1. 4000 PSI CONCRETE* WITH #3 REBAR @ 12" O.C. BOTH WAYS
2. SLIP DOWEL
3. COLD JOINT
4. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
5. EXISTING SUBGRADE
6. EXISTING SLAB
7. 6 MIL PLASTIC SHEETING

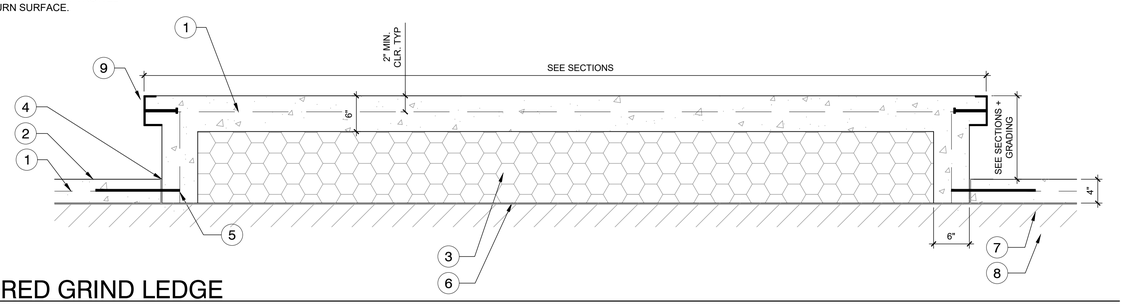


4 ROLLOVER - CAPPED

1/2" = 1'-0" P-PIP-HIGHNJ-16

1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLAT WORK*
3. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
4. EXPANSION JOINT
5. SLIP DOWEL
6. 6 MIL PLASTIC SHEETING
7. EXISTING PAVEMENT
8. EXISTING SUB-GRADE
9. CANTILEVERED STEEL EDGING

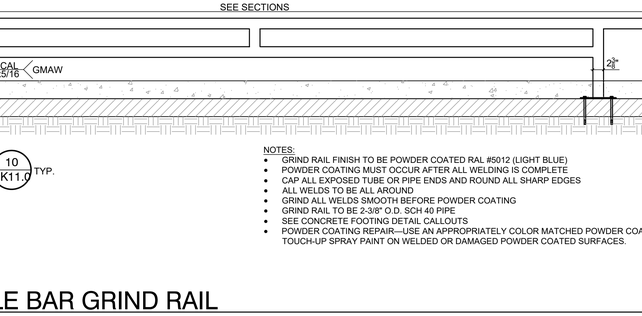
*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.



5 CANTILEVERED GRIND LEDGE

1" = 1'-0" P-PIP-HIGHNJ-99

1. 4000 PSI CONCRETE* WITH #3 REBAR @ 12" O.C. BOTH WAYS
2. SLIP DOWEL
3. COLD JOINT
4. STRUCTURAL FOAM FILL - TO BE EPS15 OR SIMILAR
5. EXISTING SUBGRADE
6. EXISTING SLAB
7. 6 MIL PLASTIC SHEETING



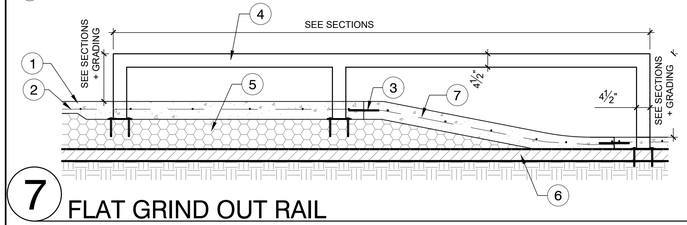
6 PANNED H

3/8" = 1'-0" P-PIP-HIGHNJ-101

1. 4000 PSI CONCRETE FLATWORK*
2. #3 REBAR @ 16" O.C.
3. SLIP DOWEL
4. 4.5" O.D. SCH 40 GRIND RAIL
5. STRUCTURAL FOAM TO BE EPS15 OR SIMILAR
6. EXISTING ASPHALT
7. 4000 PSI SHOTCRETE WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.

SKATEPARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.

NOTES:
- SEE STEEL PLAN FOR FINISH
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING
- VENT ADEQUATELY FOR FINISH
- GRIND RAIL TO BE 4-1/2" O.D. STEEL PIPE
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD
- REPAIR—USE AN APPROPRIATELY COLOR MATCHED TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED SURFACES.
- CLEAN METAL EDGES AFTER PLACEMENT OF CONCRETE.
- SEE TYPICAL CONCRETE FOOTING DETAIL 9/SK11.0 10/SK11.0

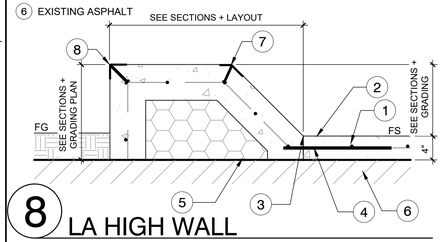


7 FLAT GRIND OUT RAIL

1/2" = 1'-0" P-PIP-HIGHNJ-36

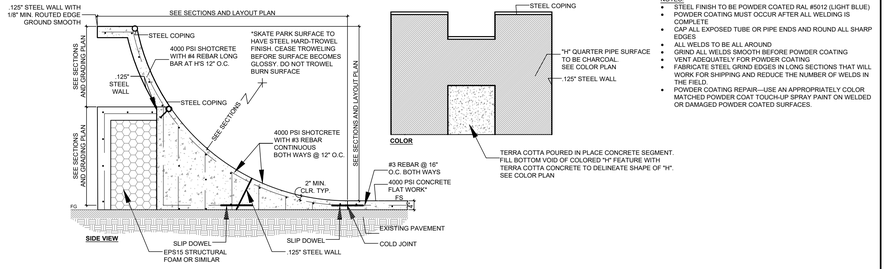
1. #3 REBAR @ 16" O.C. BOTH WAYS
2. 4000 PSI CONCRETE FLATWORK*
3. COLD JOINT - 1/8" TOOLED EDGE BOTH SIDES
4. SLIP DOWEL
5. 6 MIL PLASTIC SHEETING
6. EXISTING ASPHALT
7. STEEL STRAP
8. STEEL EDGING

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE.



8 LA HIGH WALL

1" = 1'-0" P-PIP-HIGHNJ-108



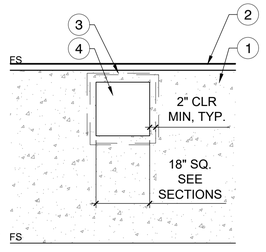
NOTES:
- STEEL FINISH TO BE POWDER COATED RAL #5012 (LIGHT BLUE)
- POWDER COATING MUST OCCUR AFTER ALL WELDING IS COMPLETE
- CAP ALL EXPOSED TUBE OR PIPE ENDS AND ROUND ALL SHARP EDGES
- ALL WELDS TO BE ALL AROUND
- GRIND ALL WELDS SMOOTH BEFORE POWDER COATING
- VENT ADEQUATELY FOR POWDER COATING
- FABRICATE STEEL GRIND EDGES IN LONG SECTIONS THAT WILL WORK FOR SHIPPING AND REDUCE THE NUMBER OF WELDS IN THE FIELD.
- POWDER COATING REPAIR—USE AN APPROPRIATELY COLOR MATCHED POWDER COAT TOUCH-UP SPRAY PAINT ON WELDED OR DAMAGED POWDER COATED SURFACES.

9 FLAT DOUBLE BAR GRIND RAIL

3/4" = 1'-0" P-PIP-HIGHNJ-03

1. 4000 PSI SHOTCRETE WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
2. STEEL COPING
3. (4) #3 REBAR 90DEG BEND OVERLAPPED 18" + TIED TO 12" O.C. GRID
4. WINDOW

*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE



FRONT SECTION

10 WINDOW IN QUARTER PIPE EXT.

1/2" = 1'-0" P-PIP-HIGHNJ-109

SPOHN RANCH SKATEPARKS
DESIGN. BUILD. COME TOGETHER.
6824 S. CENTINELA AVE - LOS ANGELES, CA 90230
OFFICE (626) 330-5803 – FAX (626) 330-5503

REVISIONS

NO	DATE	DESCRIPTION	BY
-	-	-	-
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STAMP:

SKATE PARK DESIGNED BY JB, CW, ZM

DOCUMENTS BY ZM, DM

PLAN CHECKED BY DH

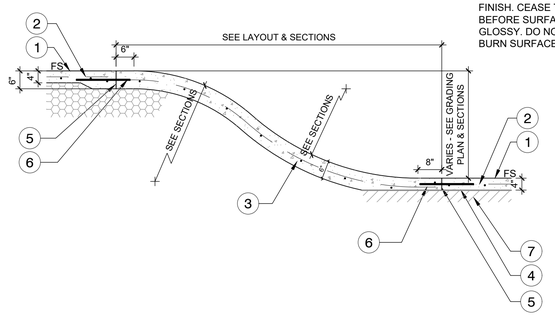
DATE 11/2/2022

PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
CONSTRUCTION DETAILS

SHEET
SK11.1
OF 16

1. 4000 PSI CONCRETE FLAT WORK*
2. #3 REBAR @ 16" O.C. BOTH WAYS
3. 4000 PSI SHOTCRETE WITH #3 REBAR CONTINUOUS BOTH WAYS @ 12" O.C.
4. 6 MIL PLASTIC SHEETING
5. COLD JOINT
6. SLIP DOWEL
7. EXISTING ASPHALT



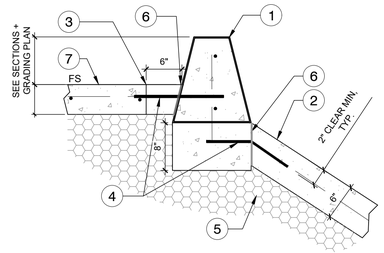
*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

1 ROLL-IN

1/2" = 1'-0" P-PIP-HIGHNJ-106

1. .125" STEEL WALL WITH 1/8" MIN. ROUTED EDGE GROUND SMOOTH. SEE STEEL PLAN FOR FINISH.
2. 4000 PSI CONCRETE #3 REBAR @ 12" O.C. BOTH WAYS
3. COLD JOINT
4. SLIP DOWEL @ 16" O.C.
5. EPS15 STRUCTURAL FOAM
6. EXPANSION JOINT
7. 4000 PSI CONCRETE #3 REBAR @ 16" O.C. BOTH WAYS

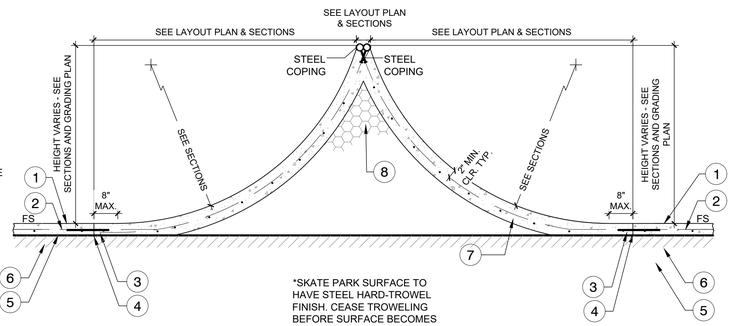
NOTE:
PANNED SLAPPY TO BE POURED WITH CONCRETE PRIOR TO SETTING.



2 RADIUS WEDGE TO SLAPPY CURB

1" = 1'-0" P-PIP-HIGHNJ-61

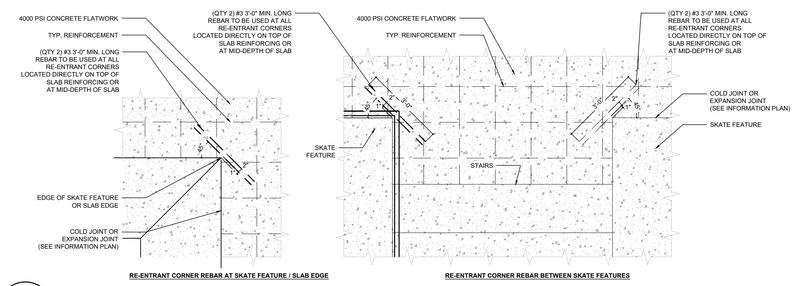
1. 4,000 PSI CONCRETE FLAT WORK*
2. #3 REBAR @ 16" O.C. BOTH WAYS
3. SLIP DOWEL
4. COLD JOINT
5. 6 MIL PLASTIC SHEETING
6. EXITING ASPHALT
7. 4000 PSI SHOTCRETE WITH #3 REBAR CONTINUS BOTH WAYS @ 12" O.C. *
8. STRUCTURAL FOAM TO BE EPS15 OR SIMILAR



*SKATE PARK SURFACE TO HAVE STEEL HARD-TROWEL FINISH. CEASE TROWELING BEFORE SURFACE BECOMES GLOSSY. DO NOT TROWEL BURN SURFACE

3 TYPICAL SPINE TRANSITION

1/2" = 1'-0" P-PIP-HIGHNJ-39



4 RE-ENTRANT CORNER REBAR

3/8" = 1'-0" P-PIP-HIGHNJ-40

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REVISIONS

NO	DATE	DESCRIPTION	BY
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	-	-	-

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SKATE PARK DESIGNED BY: JB, CW, ZM
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PLAN CHECKED BY: DH
DATE: 11/2/2022

PROJECT TITLE
SNUG HARBOR SKATEPARK

SHEET TITLE
CONSTRUCTION DETAILS

SHEET
SK11.2
OF 16