ROUTE 33

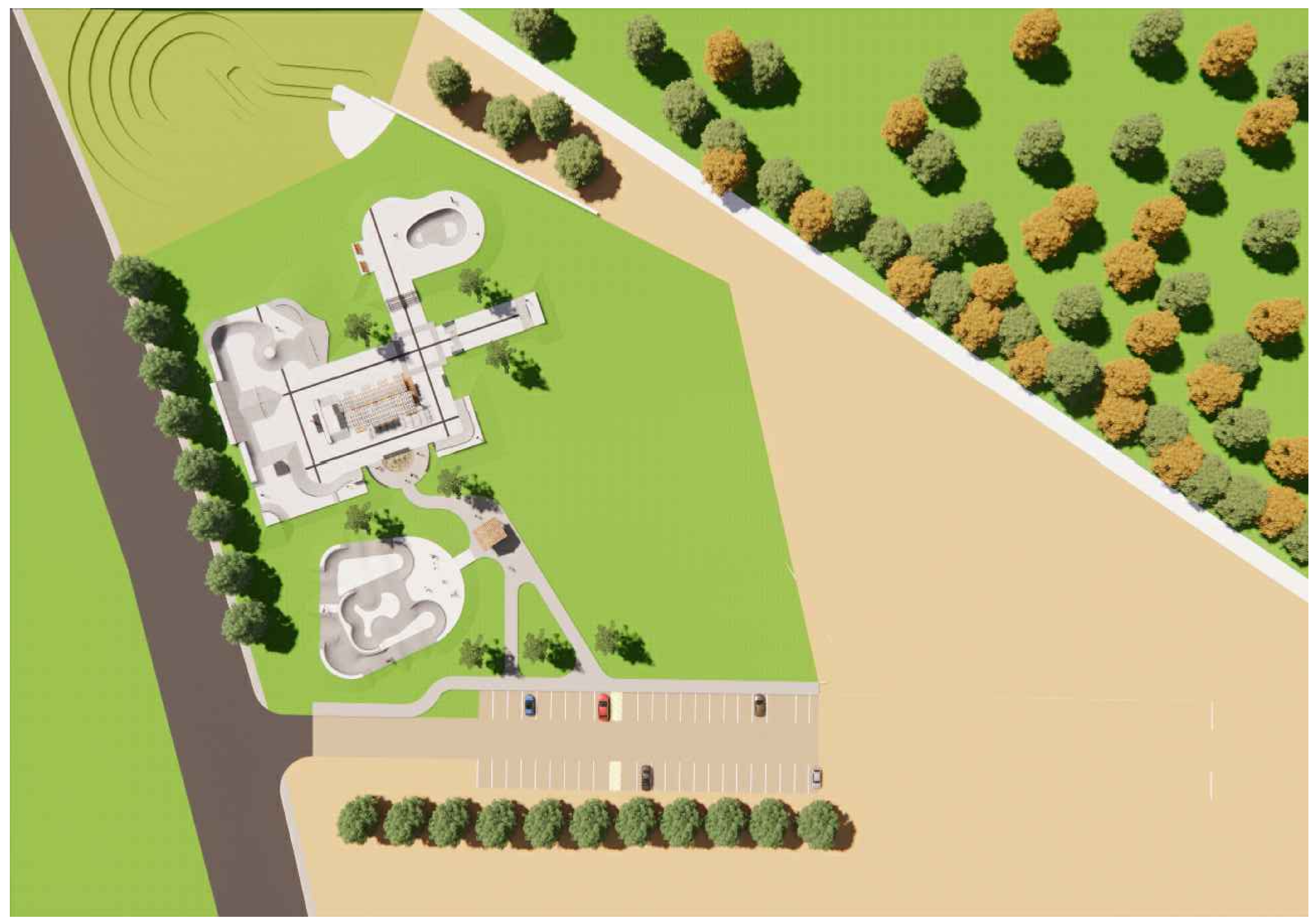
SKATE PARK

305 GREENLAND RD
PORTSMOUTH, NH.

WSE PROJECT ENG22-0627

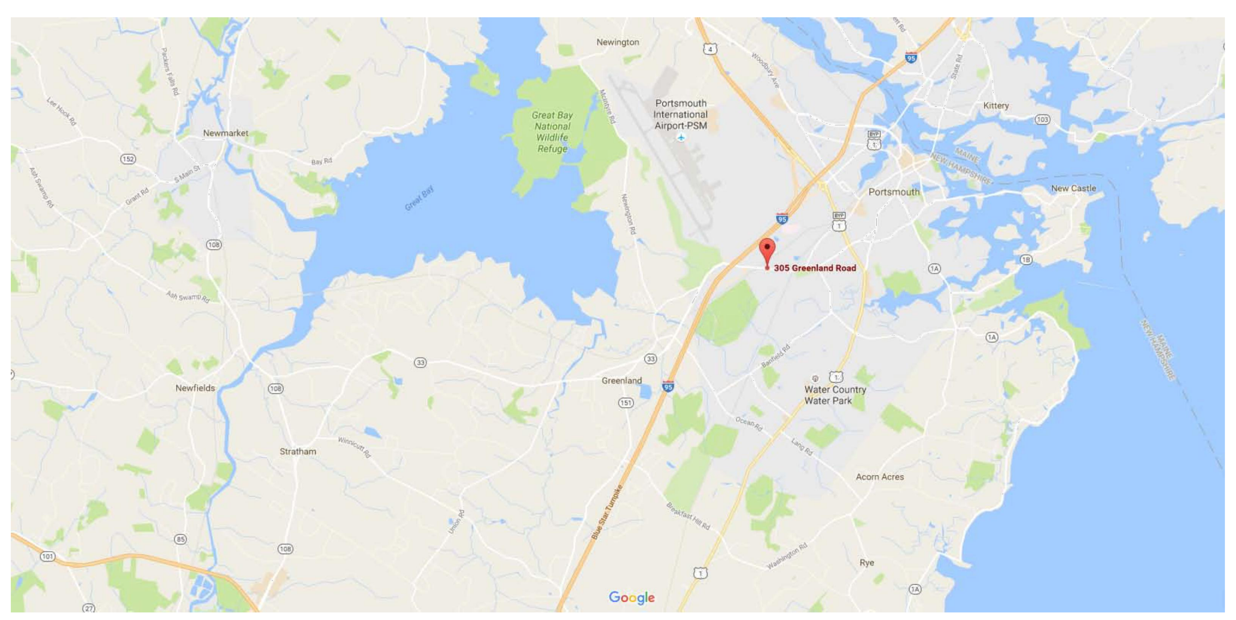
CITY OF PORTSMOUTH
DEPARTMENT OF PUBLIC WORKS
680 PEVERLY HILL ROAD
PORTSMOUTH, NH. 03801
(603) 766-1755
ATTN: CHRISTINE SPROVIERO

WESTON & SAMPSON ENGINEERS, INC.
85 DEVONSHIRE STREET, 3RD FLOOR
BOSTON, MA 02109
(617)412-4480
ATTN: BRANDON KUNKEL

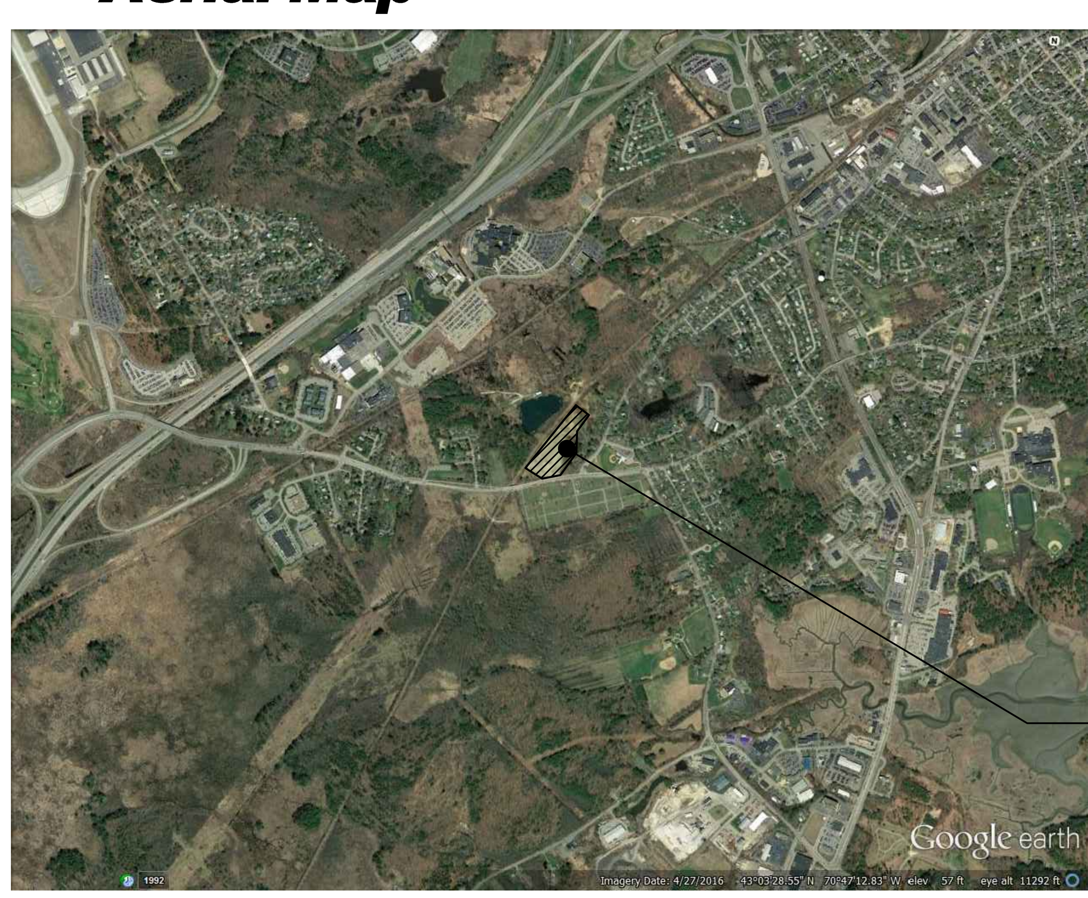


MARCH 2023

Locus Map



Aerial Map



ROUTE 33. RECREATION FIELD
305 GREENLAND RD.

Prepared By

Weston & Sampson
427 Main Street, Suite 400, Worcester, MA 01608
(978). 977. 0110 (800).726.7766 (Sampson)
www.westonandsampson.com

SHEET INDEX

BID DOCUMENTS

ADD ALTERNATE NO. 1:
UNDER ALTERNATE NO.1 THE CONTRACTOR SHALL INSTALL THE SPECIFIED 20' X 40' SHADE STRUCTURE CANOPY, ASSOCIATED HARDWARE AND ANY RELATED APPURTENANCES NEEDED TO COMPLETE AND FULLY INSTALL THE STRUCTURE.

WORK UNDER THE BASE BID SHALL INCLUDE THE INSTALLATION OF ALL POST FOUNDATION FOOTINGS AS INDICATED ON THE PLANS AND SPECIFICATIONS.

ZONING INFORMATION:

OWNER: CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS
680 PEVERLY HILL ROAD
PORTSMOUTH, NH. 03801

ZONE: M

TAX MAP: 241, LOT 18

ZONING REQUIREMENTS: LOTS AND BUILDINGS IN THE MUNICIPAL DISTRICT ARE EXEMPT FROM ALL DIMENSIONAL AND INTENSITY REGULATIONS.SEE SECTION 10.560 OF THE CITY OF PORTSMOUTH ZONING ORDINANCE.

ABUTTER INFORMATION:

MAP 165 LOT 14
N/F
BOSTON AND MAINE
CORPORATION
IRON HORSE PARK
HIGH STREET
NORTH BILLERICA, MA 01862

MAP 242 LOT 5
N/F
ROMAN CATHOLIC BISHOP
OF MANCHESTER
CHURCH OF IMMAC
CONCEPTION
98 SUMMER STREET
PORTSMOUTH, NH 03801

MAP 242 LOT 1
N/F
STATE OF NEW HAMPSHIRE
FISH AND GAME
DEPARTMENT
11 HAZEN DRIVE
CONCORD, NH 03301
RCRD BK.#5248 PG.#739

MAP 241 LOT 20
N/F
ANDREW H. SHERBURNE
REVOCABLE TRUST
24 TONGA DRIVE
BOW, NH 03304
RCRD BK.#5289 PG.#138

SURVEY PREPARED BY:

TFM MSC
A division of TFMoran, Inc.
170 Commerce Way, Suite 102
Portsmouth, NH 03801
Phone (603) 431-2222
Fax (603) 431-0910
www.mscengineers.com

CONTROL POINT ASSOCIATES, INC.

Brandon Kunkel
00214

ENG22-0627 | Portsmouth, NH | ROUTE 33. SKATE PARK | BID DOCUMENTS

L000

GENERAL NOTES

1. PROPERTY LINES, SITE SURVEY AND TOPOGRAPHICAL INFORMATION BASED ON THE GROUND SURVEY PERFORMED BY TFM/ MSC, 170 COMMERCE WAY, SUITE 102, PORTSMOUTH, NH, 03801, (603) 431-2222 ON OCTOBER 16, 2016 AND SUPPLEMENTED BY CONTROL POINT ASSOCIATES, 352 TURNPIKE RD., SUITE 320, SOUTHBOROUGH, MA 01772, 508-948-3000 ON AUGUST 22,2022.

2. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.

3. LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH THE CITY OF PORTSMOUTH AND THE STATE OF NEW HAMPSHIRE, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT (888) 344-7233 NO LESS THAN 72 HOURS, (EXCLUSIVE OF WEEKENDS AND HOLIDAYS), PRIOR TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.

4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE FOR RESOLUTION OF THE CONFLICT.

5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ELECTRIC AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE CITY OF PORTSMOUTH.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.

7. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.

8. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON THE "AS-BUILT" DRAWINGS.

9. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.

10. ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND SALVAGE (R&S)", OR REMOVE, RELOCATE, SALVAGE, (R,R&S).

11. ALL KNOWN EXISTING STATE, COUNTY AND CITY LOCATION LINES AND PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.

12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERINGS, OR FENCES AS NEEDED.

13. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.

14. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.

15. EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.

16. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT OR AS NOTED ON THE PLANS.

17. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER REPRESENTATIVE.

18. THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. TREES AND STUMPS SHALL BE REMOVED AND DISPOSED COMPLETE BY CONTRACTOR. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) SHALL BE INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.

19. ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY. REMOVAL ACTIVITIES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE CITY. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MAY MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED. ON-SITE FILL MATERIALS, WHICH DO NOT CONFORM TO THE SPECIFICATIONS, SHALL NOT BE USED BELOW ANY STRUCTURES. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.

20. CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD WITH A NEW HAMPSHIRE REGISTERED PROFESSIONAL LAND SURVEYOR. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE ENGINEER.

21. NO IMPORTED FILL SHALL CONTAIN HAZARDOUS MATERIALS.

22. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPEDE TRAVEL WAYS.

23. ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID.

24. ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.

25. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.

26. THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.

27. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.

28. CONTRACTOR SHALL DEWATER AS NECESSARY TO PERFORM THE PROPOSED WORK. CONTRACTOR SHALL BE AWARE OF ANY PERCHED GROUNDWATER.

29. THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION AND AGREED UPON WITH THE OWNER.

30. DEEP SUMP CATCH BASINS AND STORMWATER BASIN SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.

31. HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7 AM TO 5 PM.

32. ANY BOULDERS 3 CU. YDS. OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE CITY.

33. WORK ON SATURDAYS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE CITY.

34. NO TRUCKS LEFT IDLING ON CITY STREETS DURING CONSTRUCTION. CONSTRUCTION TRAFFIC AT NO TIME SHALL IMPEDE FLOW OF RESIDENT TRAFFIC.

35. THE DELINEATION OF THE WETLANDS WAS PREFORMED BY WESTON & SAMPSON'S DEVIN BATCHELDER, CWS ON SEPTEMBER 20, 2022 AND DECEMBER 27, 2022.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT INTO PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLANS FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.

3. CONTRACTOR SHALL MEET ALL OF THE STATE OF NEW HAMPSHIRE D.E.S. AND THE CITY OF PORTSMOUTH REGULATIONS FOR SEDIMENT AND EROSION CONTROL.

4. EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.

5. ALL CATCH BASINS AND DRAIN GRATES WITHIN LIMIT OF CONTRACT SHALL BE PROTECTED WITH SILT SACKS DURING THE ENTIRE DURATION OF CONSTRUCTION.

6. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE GRADING & DRAINAGE PLANS, NOTES, DETAILS AND SPECIFICATIONS.

7. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.

8. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.

DEMOLITION & SITE PREPARATION NOTES

1. REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.

2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.

3. UNLESS SPECIFICALLY NOTED TO BE REMOVED / SALVAGED (R&S), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC, TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO ADDITIONAL COST TO THE OWNER.

4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.

5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.

6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.

7. 'CLEAR AND GRUB VEGETATION' SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, UNDERBRUSH, AND ALL VEGETATION, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.

8. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

9. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

10. LOAM / TOP SOIL DESIGNATED FOR REUSE AS GENERAL FILL SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.

11. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN, CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIERS AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

LAYOUT & MATERIALS NOTES

1. REFER TO EXISTING CONDITIONS PLANS FOR SURVEY INFORMATION (SHEET L1.00).

2. COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.

3. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OTHERS" OR "UNDER SEPARATE CONTRACT".

4. TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY. SOME ITEMS ARE "NOT IN CONTRACT" (NIC) AND SHOWN FOR REFERENCE ONLY.

5. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

6. THE LAYOUT OF ALL NEW PATHWAYS / WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE NEW HAMPSHIRE RULES AND REGULATIONS FOR HANDICAP ACCESS CMR 521, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.

7. ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.

8. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER. ALL LAYOUT SHALL BE PERFORMED BY A NH. REGISTERED PROFESSIONAL LAND SURVEYOR.

9. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES. ALL BITUMINOUS CONCRETE SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.

10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND GATES.

12. THE DEPTH OF LOAM BORROW FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED

13. REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.

14. SURVEY CONTROL POINTS AND COORDINATES ARE INDICATED ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT OR CREATE HIS OWN PROTECTED CONTROL POINTS FROM THIS INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL LAYOUT POINTS ARE CONSISTENT WITH CONTROL INFORMATION. RESETTING OF DAMAGED OR MISSING LAYOUT MARKERS AS NECESSARY IS AT NO ADDITIONAL COST TO THE OWNER.

GRADING, UTILITIES & DRAINAGE NOTES

1. ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE AND/OR SEWER SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE CITY OF PORTSMOUTH DPW AND SHALL BE INSPECTED BY DPW PRIOR TO BACKFILL.

2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.

3. ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED SURFACES MEET EXISTING SURFACES, ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.

4. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.

5. MINIMUM CROSS SLOPE ON ALL WALKWAYS WILL BE 1:100 OR A MAXIMUM OF 1.5% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.

6. ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES. ALL UTILITY GRATES WITHIN PLAYING FIELDS OR INDICATED TO BE "BURIED" SHALL BE 4" BELOW FINISH GRADE AND COVERED WITH FINISH MATERIAL INDICATED ON PLANS.

7. THE CONTRACTOR SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AS NEEDED AND AT THE END OF THE PROJECT.

8. EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.

9. WHERE NEW EARTHWORK MEETS EXISTING GRADE, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.

10. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.

11. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.

12. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR SPECIFIC EXCAVATION AND FILLING PROCEDURES.

13. FOR STRUCTURE REMODELING (REMOD), CONSTRUCTION METHODS SHALL FOLLOW NEW HAMPSHIRE DOT STANDARD SPEC. LATEST EDITION.

AOT PERMIT (ENV-WQ 1503.33) WILDLIFE PROTECTION NOTES

1. BLANDING'S TURTLE (STATE ENDANGERED) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NEW HAMPSHIRE FISH AND GAME (NHFG)CONTACT INFORMATION.

2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT. SEE SPECIFICATIONS SECTION 01 57 19 - ENVIRONMENTAL PROTECTION FOR NHFG INFORMATION FLYER.

3. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON (MAY 15TH - JUNE 30TH). ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION.

4. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.

5. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.

6. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.

7. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.

8. NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

DIG SAFE
MA ME NH RI VT
UTILITIES UNDERGROUND PLANT DAMAGE PREVENTION SYSTEM
CALL 811 TOLL FREE

CONTACT DIG SAFE 72 BUSINESS HOURS PRIOR TO CONSTRUCTION

ABBREVIATIONS

GENERAL

PROP	PROPOSED
ADJ	ADJUST
BIT. CONC.	BITUMINOUS CONCRETE
CEM. CONC.	CEMENT CONCRETE
B	BASELINE
N.T.S.	NOT TO SCALE
BVCL	BLACK VINYL CHAIN LINK
B.M.	BENCH MARK
ABAN	ABANDON
MB	MAIL BOX
GRAN. CURB	GRANITE CURB
EXIST. (OR EX.)	EXISTING
FDN	FOUNDATION
F.L. (OR F)	FLOW LINE
P	PROPERTY LINE
PVMT	PAVEMENT
P.W.W.	PAVED WATERWAY
RC	REINFORCED CONCRETE
M.H.B.	NEW HAMPSHIRE HIGHWAY BOUND
REM	REMOVE
REMOD	REMODEL
RET	RETAIN
R.O.W.	RIGHT-OF-WAY
R&S	REMOVE AND SALVAGE
R,R&S	REMOVE, RELOCATED AND SALVAGE
R&S	REMOVE AND STACK
R&D	REMOVE AND DISPOSE
SB	STONE BOUND
NIC	NOT IN CONTRACT
H.C.	HANDICAP
WCR	WHEELCHAIR RAMP
FF	FINISHED FLOOR
HMA	HOT MIX ASPHALT
G.C.	GENERAL CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
SWEL	SOLID WHITE EDGE LINE
BWLL	BROKEN WHITE LANE LINE
SYEL	SOLID YELLOW EDGE LINE
SB/DH	STONE BOUND/ DRILL HOLE
CLF	CHAIN LINK FENCE
TEMP.	TEMPORARY
TYP.	TYPICAL
EQ	EQUIPMENT
H.C.	HANDICAP
EOP	EDGE OF PAVEMENT
PROT	PROTECT
CTE	CONNECT TO EXISTING
RL	ROOF LEADER
L.O.W.	LIMIT OF WORK
VIF	VERIFY IN FIELD
BVW	BORDERING VEGETATED WETLAND

UTILITIES

GICI	GUTTER INLET W/ CURB INLET
CBCI	CATCH BASIN W/ CURB INLET
CB	CATCH BASIN
C.I.T.	CHANGE IN TYPE
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
CI	CURB INLET
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
DI	DRAIN INLET
GI	GUTTER INLET
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
HYD	HYDRANT
INV. ELEV.	INVERT ELEVATION
UP	UTILITY POLE
SMH	SEWER MANHOLE
WG	WATER GATE
DS	DOWN SPOUT
HDPE	HIGH DENSITY POLYETHYLENE PIPE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
DMH	DRAIN MANHOLE
LB	LEACHING BASIN
LG	LEACHING GALLEY
CI	CAST IRON
OCS	OUTLET CONTROL STRUCTURE
OGT	OIL AND GRIT TRAP
VC	VITRIFIED CLAY PIPE
LP	LIGHT POLE
OHW	OVERHEAD WIRE
UPLP	UTILITY POLE WITH LIGHT
SWTU	STORM WATER TREATMENT UNIT
HH	HANDHOLE
GW	GARAGE WASTE
CO	CLEANOUT
LC	LEACHING CHAMBER
GV	GATE VALVE
CU	CONNECTION UNKNOWN

ALIGNMENT/GRADING

BW	BOTTOM OF WALL
BC	BOTTOM OF CURB
PI	POINT OF INTERSECTION
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVATURE
PVT	POINT OF VERTICAL TANGENCY
ELEV	ELEVATION
CC	CENTER OF CURVE
H.P.	HIGH POINT
L.P.	LOW POINT
R	RADIUS OF CURVATURE
STA	STATION
S.S.D.	STOPPING SIGHT DISTANCE
TC	TOP OF CURB
TW	TOP OF WALL

LICENSED LANDSCAPE ARCHITECT
Brandon Kunkel
00214
STATE OF NEW HAMPSHIRE

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

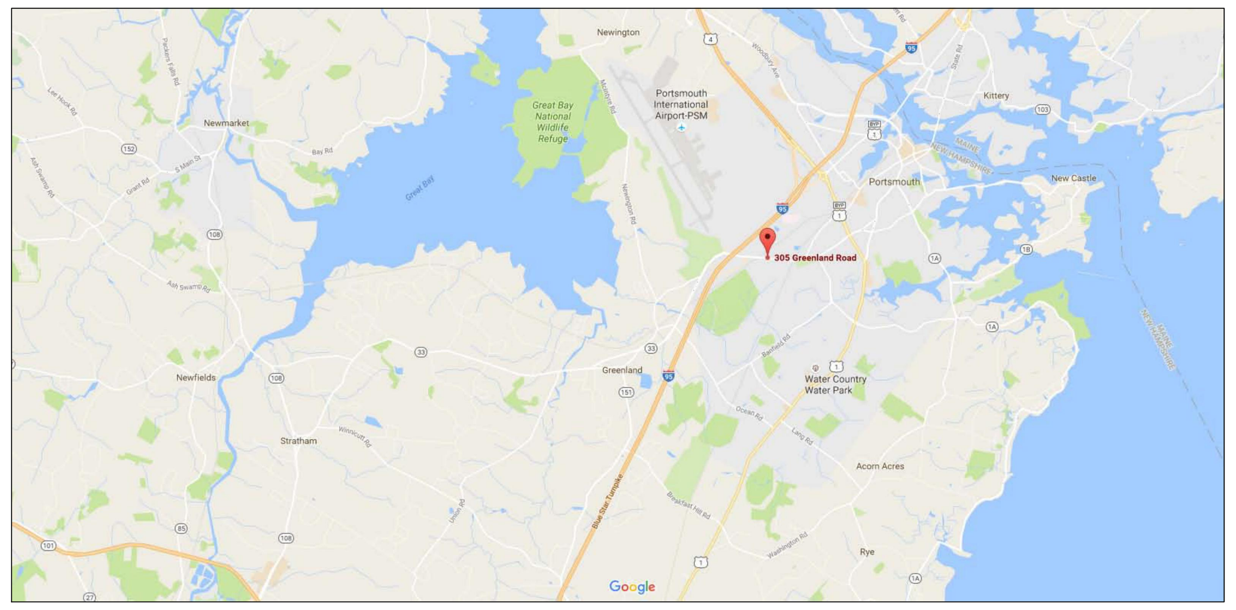
DRAWN BY: KC
REVIEWED BY: BK
APPROVED BY:
DATE: March 1, 2023

PROJECT: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

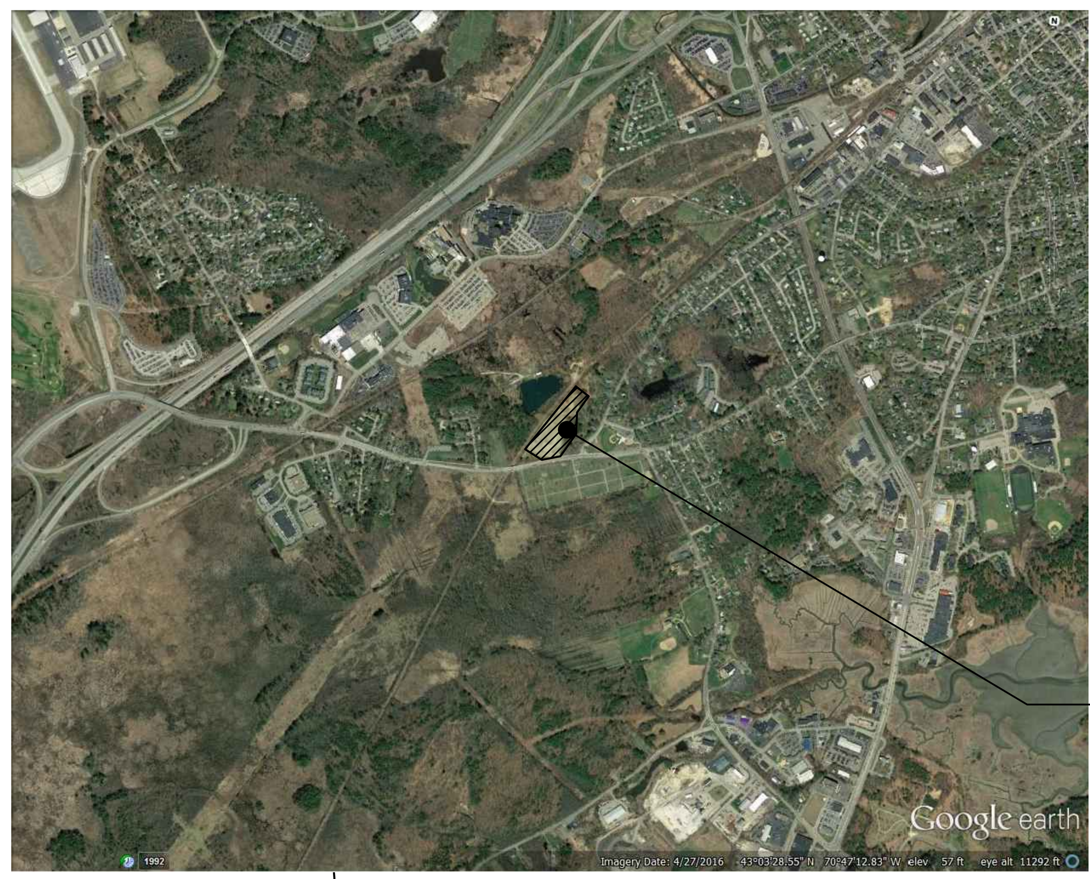
SHEET TITLE: GENERAL NOTES
BID DOCUMENTS

SHEET: L001
SKATE PARK

Locus Map



Aerial Map



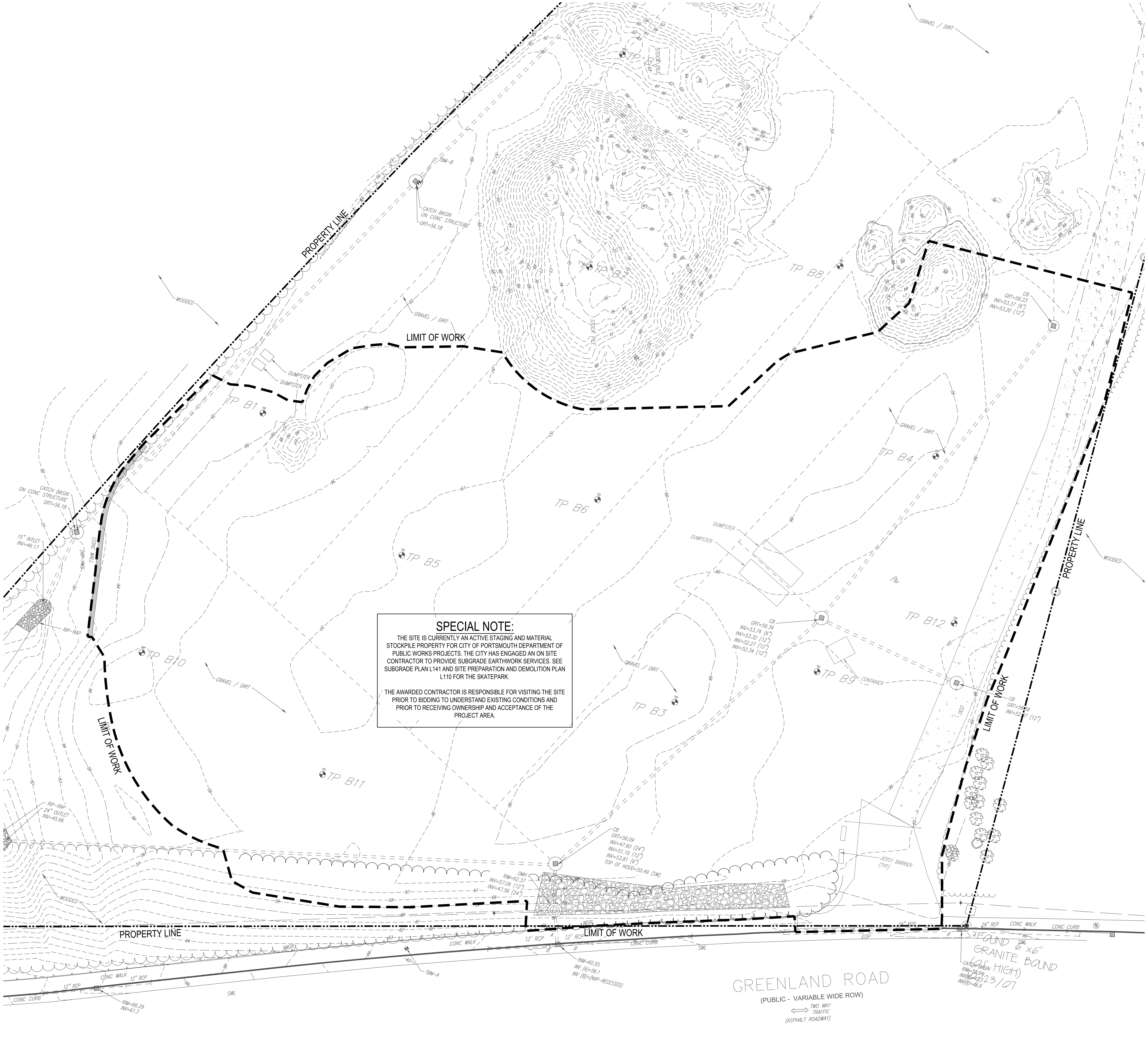
Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
SITE PLAN
BID DOCUMENTS

SHEET::
L002
SKATE PARK



LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- GUARDRAIL
- EDGE OF WOODS
- OVERHEAD UTILITIES
- 65 EXISTING CONTOUR
- EXISTING PIPE
- CB CATCH BASIN
- UTILITY POLE
- DMH DRAIN MANHOLE
- RIPRAP
- GRAVEL

CB	CATCH BASIN
CPP	CORRUGATED PLASTIC PIPE
DMH	DRAINAGE MANHOLE
HDPE	HIGH DENSITY POLYETHYLENE
INV.	INVERT
RCP	REINFORCED CONCRETE PIPE
TP	TEST PIT

NOTES

1. THE PARCEL IS LOCATED IN THE MUNICIPAL DISTRICT.
2. THE PARCEL IS SHOWN ON THE CITY OF PORTSMOUTH ASSESSOR'S MAP 241 AS LOT 18.
3. THE PARCEL IS LOCATED IN FLOOD ZONE X AS SHOWN ON FLOOD INSURANCE RATE MAP, ROCKINGHAM COUNTY, NEW HAMPSHIRE, PANEL 270 OF 681, MAP NUMBER 33015C0270E, EFFECTIVE DATE: MAY 17, 2005.
4. OWNER OF RECORD:
   CITY OF PORTSMOUTH
   C/O WATER DEPARTMENT
   DEPARTMENT OF PUBLIC WORKS
   PO BOX 628
   PORTSMOUTH, NH 03802
5. ZONING REQUIREMENTS:
   LOTS AND BUILDINGS IN THE MUNICIPAL DISTRICT ARE EXEMPT FROM ALL DIMENSIONAL AND INTENSITY REGULATIONS.
   SEE SECTION 10.560 OF THE CITY OF PORTSMOUTH ZONING ORDINANCE.
6. VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONTOUR INTERVAL IS 1'.
7. HORIZONTAL DATUM IS NORTH AMERICAN DATUM OF 1983 (NAD83).
8. THE UNDERGROUND SYSTEM SHOWN HEREON WAS NOT FIELD LOCATED. LOCATION TAKEN FROM "GRADING PLAN ROUTE 33 RECREATION AREA" BY UNDERWOOD ENGINEERS, DATED 12/17/2013. THIS LOCATION SHOWN HEREON IS APPROXIMATE ONLY.
9. EXISTING CONDITIONS SURVEY PERFORMED BY CONTROL POINT ASSOCIATES DATED 10/25/2022

PLAN REFERENCES:

1. "LOT LINE ADJUSTMENT ISLINGTON STREET & GREENLAND ROAD, PORTSMOUTH, NEW HAMPSHIRE FOR CITY OF PORTSMOUTH" BY JAMES VERRA AND ASSOCIATES, INC. DATED 1-30-2002. PLAN NOT RECORDED.
2. "RIGHT OF WAY EASEMENT PLAN FOR THE CITY OF PORTSMOUTH, GREENLAND ROAD/MIDDLE ROAD, PORTSMOUTH, NEW HAMPSHIRE" PREPARED BY VANASSE HANGEN BRUSTLIN, INC., DATED SEPTEMBER 28, 2007, REVISED APRIL 28, 2008. RCRD PLAN #D-35481.
3. "AS BUILT PLAN OF A PORTION OF NH ROUTE 33, PORTSMOUTH, NEW HAMPSHIRE" BY AMBIT ENGINEERING, INC. DATED AUGUST 2010, REVISED 9/21/10. PLAN NOT RECORDED.
4. "EXISTING FEATURES PLAN TAX MAP 241 LOT 18 PROPERTY OF CITY OF PORTSMOUTH 305 GREENLAND ROAD PORTSMOUTH, NEW HAMPSHIRE COUNTY OF ROCKINGHAM" BY MSC CIVIL ENGINEERS & LAND SURVEYORS, DATED NOVEMBER 2, 2012 WITH REVISION 1 DATED 11/05/2012. PLAN IS NOT RECORDED.

TFM
MSC A division of TFMoran, Inc.
170 Commerce Way, Suite 102
Portsmouth, NH 03801
Phone (603) 431-2222
Fax (603) 431-0910
www.mscengineers.com

LICENSED LANDSCAPE ARCHITECT
Brandon Kunkel
00214
STATE OF NEW HAMPSHIRE

CONTROL POINT ASSOCIATES, INC.

SCALE: 1" = 20' - 0"
0 20 40 60

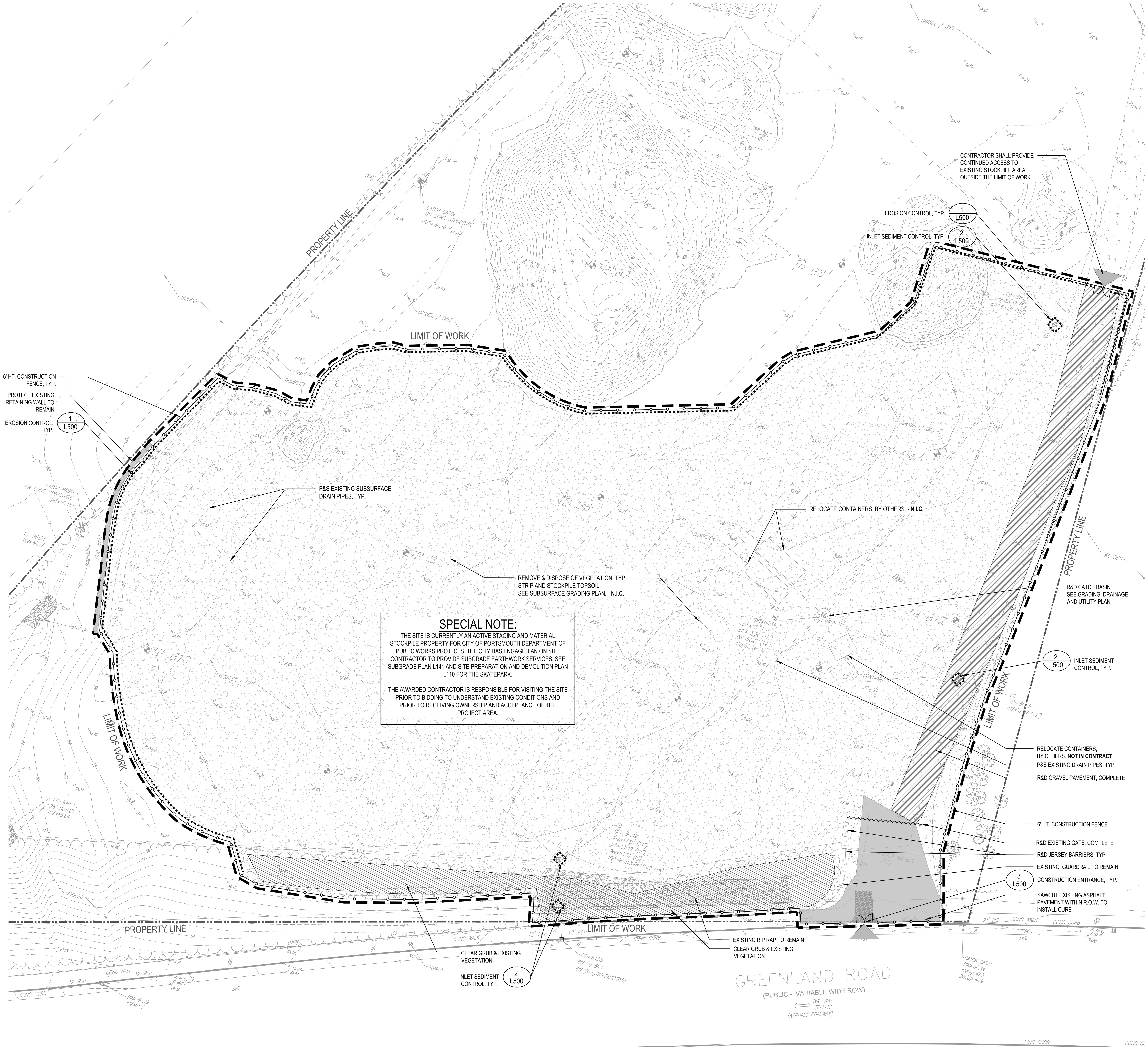
Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
EXISTING CONDITIONS PLAN
BID DOCUMENTS

SHEET::
L100
SKATE PARK



LEGEND

	PROPERTY LINE
	LIMIT OF WORK
	CLEAR & GRUB EX. VEGETATION
	R&D GRAVEL PAVEMENT, COMPLETE
	R&D VEGETATION, COMPLETE
	R&D EXISTING ASPHALT PAVEMENT
	EROSION CONTROLS
	INLET SEDIMENT CONTROL, TYP.
	6' HT. CONSTRUCTION FENCE WITH WIND SCREEN, TYP.
	R&D EXISTING GATE, COMPLETE
	CONSTRUCTION ENTRANCE

TYP.	TYPICAL
EX.	EXISTING
R&D	REMOVE AND DISPOSE
R&R	REMOVE AND RESET
R&S	REMOVE AND STORE
P&S	PROTECT AND SAVE
N.I.C.	NOT IN CONTRACT

NOTES

1. CONTRACTOR SHALL REMOVE ALL ASPHALT, RUBLE, DEBRIS, AND ALL MATERIAL WITHIN LIMIT OF WORK NECESSARY AROUND ENTIRE SITE PRIOR TO CONSTRUCTION.
2. REMOVE ALL VEGETATION WITHIN THE ENTIRE CONSTRUCTION SITE AS SHOWN ON THE PLANS. AS DETERMINED BY THE ENGINEER/LANDSCAPE ARCHITECT.
3. EX. DRAINAGE SYSTEM CONNECTS TO STORMWATER FROM GREENLAND ROAD, AND MUST BE KEPT CLEAN AND OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT.
4. PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. CONTRACTOR SHALL COORDINATE WITH ON SITE CONTRACTOR.
5. TEMPORARY STORMWATER PONDS, INFILTRATION BASINS AND SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE.
6. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPS ARE STABILIZED.
7. STORMWATER PONDS, INFILTRATION BASINS AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM,
8. LIMIT THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL TO 45 DAYS OR LESS.
9. LIMIT THE AREA OF DISTURBANCE TO LESS THAN 5 ACRES AT A TIME.
10. EROSION CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER ANY 0.5" RAINFALL EVENT.
11. CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72-HOURS OF ACHIEVING FINISHED GRADE.
12. ROADWAY AND PARKING AREAS MUST BE STABILIZED WITHIN 72-HOURS OF ACHIEVING FINISHED GRADE.
13. STABILIZED SHALL MEAN:
    - A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED
    - A MINIMUM OF 3-INCHES OF NON-EROSION MATERIAL SUCH AS STONE OR RIP RAP HAS BEEN INSTALLED; OR
    - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.03
    - IN AREAS TO BE PAVED, BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2. HAVE BEEN INSTALLED.
14. IF NECESSARY ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER IS, OR DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

SCALE: 1" = 20' - 0"

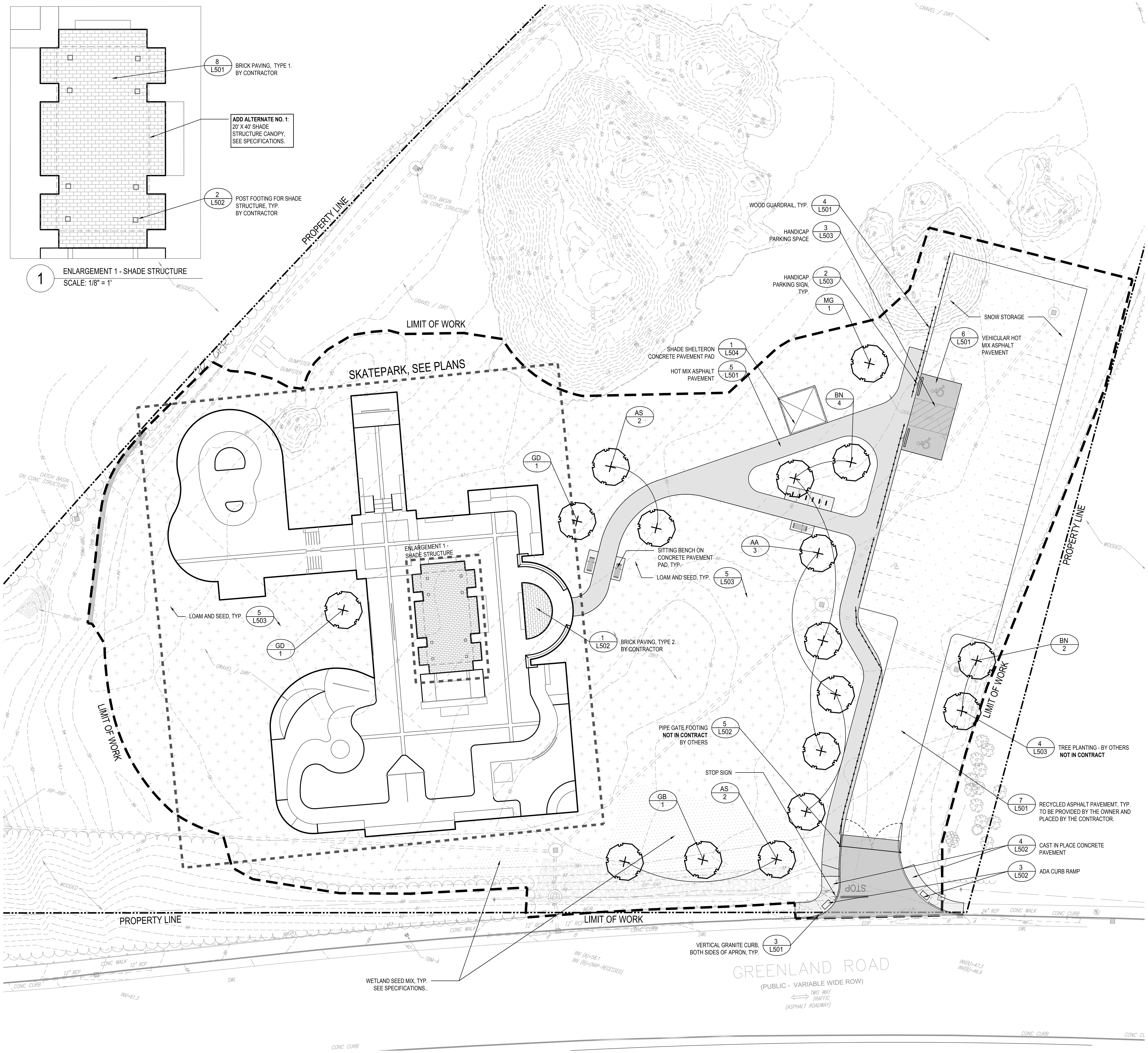
0 20 40 60

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: SITE PREPARATION AND DEMOLITION PLAN
BID DOCUMENTS

SHEET:: L110
SKATE PARK



LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- RECYCLED ASHPALT PAVEMENT, TO BE PROVIDED BY OWNER AND PLACED BY CONTRACTOR.
- LOAM AND SEED
- WETLAND SEED MIX
- CAST IN PLACE CONCRETE PAVEMENT
- PEDESTIAN HOT MIX ASPHALT PAVEMENT
- VEHICULAR HOT MIX ASPHALT PAVEMENT
- BRICK PAVERS TYPE 1 BY CONTRACTOR
- BRICK PAVERS TYPE 2 BY CONTRACTOR
- TREE PLANTING, TYP. BY OTHERS - **NOT IN CONTRACT**

PLANT SCHEDULE - **NOT IN CONTRACT**

TREES

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	NOTES
AA	3	AMELANCHIER ARBOREA	SERVICE BERRY	2"-2.5" CAL.	B&B	
AS	4	ACER SACCHARUM	SUGAR MAPLE	2"-2.5" CAL.	B&B	MULTI-TRUNK
BN	6	BETULA NIGRA	RIVER BIRCH	12-14' HEIGHT	B&B	
GB	1	GINGKO BILOBA	GINGKO	2"-2.5" CAL.	B&B	
GD	2	GYMNOCLADUS DIOICUS	ESPRESSO COFFEETREE	2"-2.5" CAL.	B&B	
MG	1	METASEQUOIA GLYPTOSTROBOIDES	DAWN REDWOOD	2"-2.5" CAL.	B&B	

NOTE:
1. THE TREE PLANTING SCHEDULE IS FOR REFERENCE ONLY. THE CITY OF PORTSMOUTH SHALL INSTALL ALL TREES AT A FUTURE DATE. UNDER THIS CONTRACT THE CONTRACTOR SHALL LOAM AND SEED ALL DISTURBED AREAS COMPLETE.

Brandon Kunkel
00214

SCALE: 1" = 20' - 0"
0 20 40 60

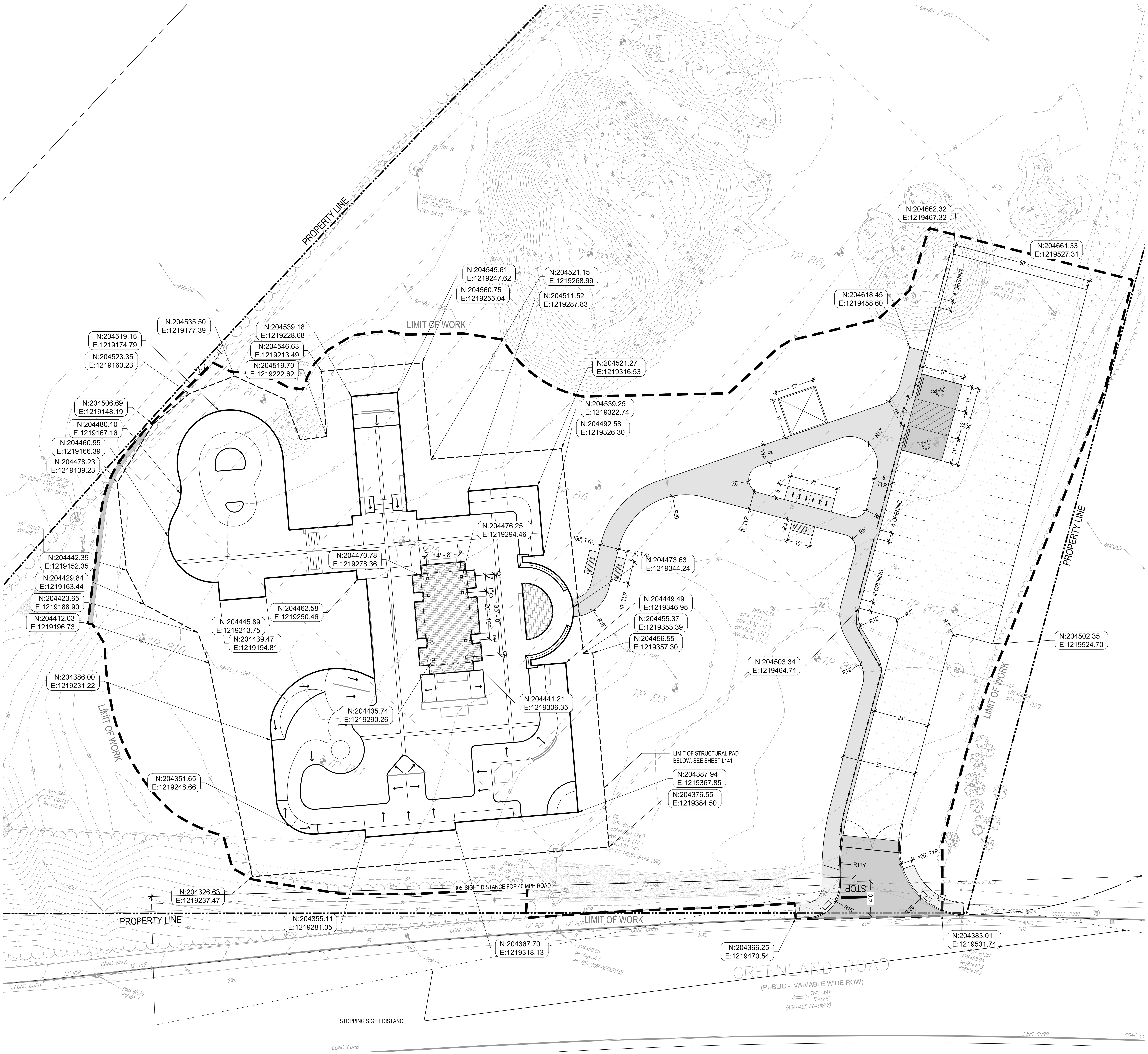
Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT:: **PORTSMOUTH SKATEPARK**
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE:: MATERIALS AND PLANTING PLAN
BID DOCUMENTS

SHEET:: **L120**
SKATE PARK



LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- XX' — TYP. DIMENSION
- X'-X' — TYP. ARC DIMENSION
- XX° — TYP. ANGLE DIMENSION
- RX — TYP. RADIUS DIMENSION
- ℄ — CENTER LINE
- CENTER POINT
- SIGHT LINE AT GREENLAND ROAD FOR PERMITTING ONLY

NOTES

1. COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY ALL OPERATIONS ENCOMPASSED BY THIS CONTRACT SET. PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL PERFORM ALL WORK UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY OTHERS" OR "OWNER".
3. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION. ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS DIRECTED, AT NO ADDITIONAL COST TO THE OWNER.
4. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER'S REPRESENTATIVE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED SITE IMPROVEMENTS.

Brandon Kunkel
00214
STATE OF NEW HAMPSHIRE

SCALE: 1" = 20' - 0"
0 20 40 60

Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT:: **PORTSMOUTH SKATEPARK**
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE:: LAYOUT PLAN
BID DOCUMENTS

SHEET:: **L130**
SKATE PARK

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- EXISTING DRAINAGE STRUCTURE. SEE UTILITIES PLAN
- 12 EXISTING CONTOURS
- 14 PROPOSED CONTOURS
- 95.10 EXISTING SPOT ELEVATION
- 8.25 PROPOSED SUBGRADE ELEVATION
- 1:3 PROPOSED SLOPE
- HH PROPOSED HANDHOLD ELECTRICAL
- PROPOSED CONDUIT
- D CATCH BASIN OR PVC AREA DRAIN, REFER TO PLANS
- HDPE OR PVC SOLID DRAIN PIPE, DIAMETER VARIES
- GRADE BREAK

NOTES:

1. THE GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DRAINAGE STRUCTUREs WITHIN THE SKATEPARK WITH THE SKATEPARK CONTRACTOR. THE GENERAL CONTRACTOR SHALL STUB THE INLET PIPE ABOVE THE RIM ELEVATIONS. SKATEPARK CONTRACTOR SHALL INSTALL INLET GRATE.
2. ELECTRICAL CONDUIT LAYOUT AND HAND HOLE LOCATIONS ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION AND ROUTING OF RACEWAYS SHALL BE COORDINATED AND DETERMINED IN THE FIELD.
3. ALL WORK ASSOCIATED WITH THE ELECTRICAL CONDUITS, PULL STRINGS, HAND HOLES, TRENCHING, ETC. SHALL CONFORM TO THE LATEST NEW HAMPSHIRE ELECTRICAL CODE AND CITY OF PORTSMOUTH STANDARDS.
4. ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL WORK SHALL BE INCLUDED WITHIN THE SCOPE OF WORK.
5. ELECTRICAL CONDUIT RUNS AND HAND HOLES SHALL BE COORDINATED WITH DRAINAGE SYSTEM, GEOSYNTHETIC AND GRAVEL BORROW STRUCTURAL FILL.
6. HAND HOLE LOCATIONS ARE APPROXIMATE AND FOR BIDDING PURPOSES ONLY. AWARDED CONTRACTOR WILL BE PROVIDED WITH LOCATIONS OF FUTURE SKATEPARK LIGHT FIXTURE LOCATIONS FOR COORDINATION PURPOSES.
7. **CONTRACTOR IS REQUIRED UNDER THE BASE BID TO INCLUDE COMPLETE INSTALLATION OF AN "EMPTY" SYSTEM INCLUDING UNDERGROUND CONDUITS, HAND HOLES, PULL STRINGS AND ANY NECESSARY LIGHTING COMPONENTS THROUGHOUT THE PROJECT SITE AS INDICATED ON THE PLANS AND SPECIFICATIONS.**
8. PROVIDE AS-BUILT "CADD" DRAWINGS AT THE COMPLETION OF THE PROJECT.,

LICENSED LANDSCAPE ARCHITECT Brandon Kunkel 00214 STATE OF NEW HAMPSHIRE

Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: GRADING, DRAINAGE AND UTILITIES PLAN
BID DOCUMENTS

SHEET:: L140
SKATE PARK

LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- EXISTING DRAINAGE STRUCTURE. SEE UTILITIES PLAN
- 12 — EXISTING CONTOURS
- 95.10 EXISTING SPOT ELEVATION
- 8.25 PROPOSED SUBGRADE ELEVATION
- D DRAIN MANHOLE
- 4" DIA. PERF HDPE PIPE AT .5% MIN SLOPE
- 12" DIA. PERF HDPE COLLECTOR PIPE
- GRADE BREAK
- LIMITS OF GRAVEL BORROW STRUCTURAL FILL. SEE SPECIFICATIONS.

SPECIAL NOTE:

1. EARTHWORK (CUT/ FILL) REQUIRED TO ACHIEVE SUBGRADE ELEVATIONS TO BE PROVIDED BY OTHERS. NOT IN CONTRACT. THE AWARDED CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBGRADE ELEVATIONS BEING COMPLETED TO ENSURE THEY MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS HEREIN, AND IS RESPONSIBLE FOR ENSURING SUBGRADE COMPACTION REQUIREMENTS ARE MET UNDER THIS CONTRACT.

NOTES:

1. USE EXISTING ON-SITE SOIL WITHIN THE EXTENTS OF THE REINFORCED SOIL PAD AREA TO PROVIDE CONSISTENT GRADE OF EL/ 56. EXCESS MATERIAL GENERATED DURING THIS WORK SHALL BE SEPARATED AND STOCKPILED ON-SITE AT THE LOCATION SHOWN ON THIS PLAN.
2. SUBGRADE PREPARATION SHALL BE PREFORMED IN THE PRESENCE OF THE OWNER'S ENGINEER.
3. ANY DEBRIS/ DELETERIOUS MATERIAL ENCOUNTERED DURING EXCAVATION TO SUBGRADE SHALL BE SEPARATELY STOCKPILED AT THE DIRECTION OF THE ENGINEER.
4. UNLESS OTHERWISE NOTED WITHIN THESE PLANS OR DETAILS, THE CONTRACTOR SHALL ASSUME 6" MINIMUM SUBGRADE DEPTH BELOW FINISHED GRADE IN ALL LANDSCAPE AREAS (LOAM & SEED).

Brandon Kunkel 00214 LICENSED LANDSCAPE ARCHITECT STATE OF NEW HAMPSHIRE

0 20 40 60
SCALE: 1" = 20' - 0"

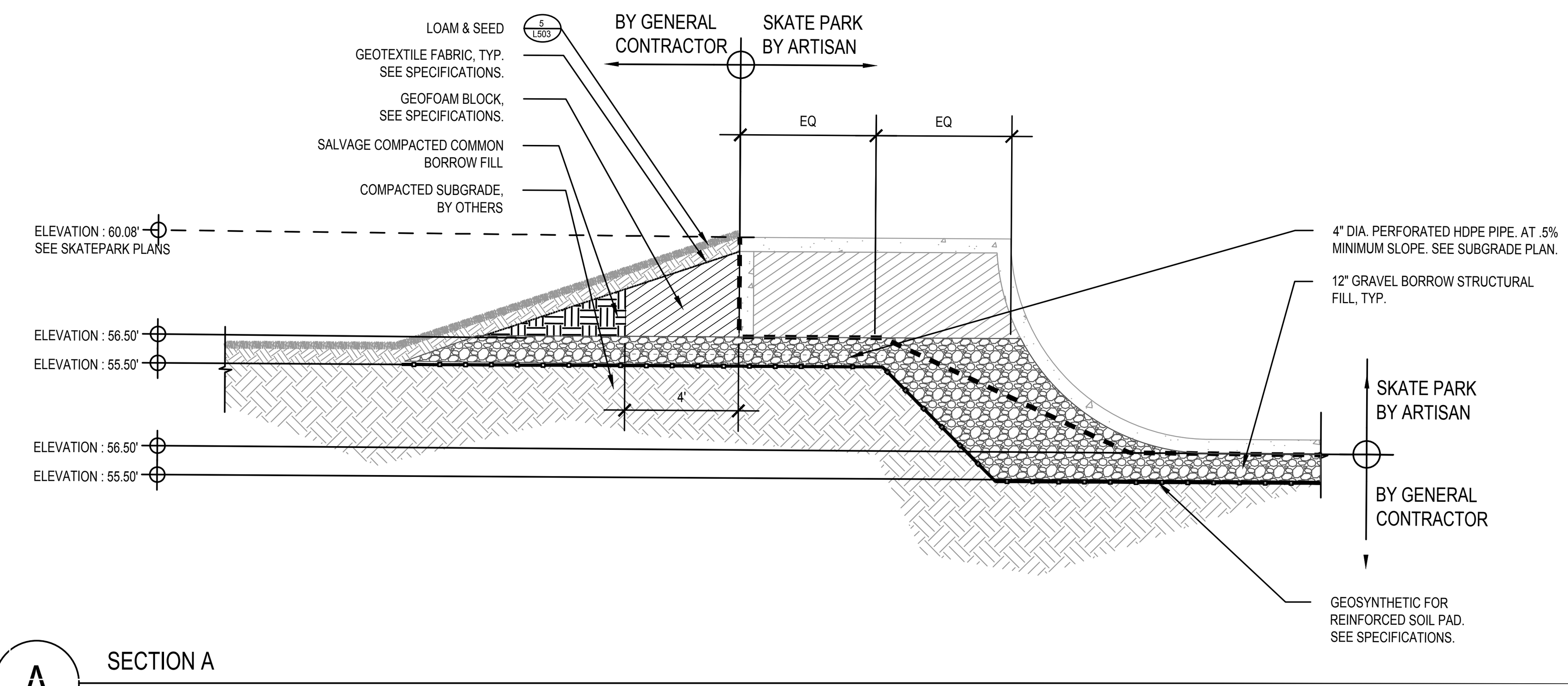
PILLAR DESIGN STUDIOS

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

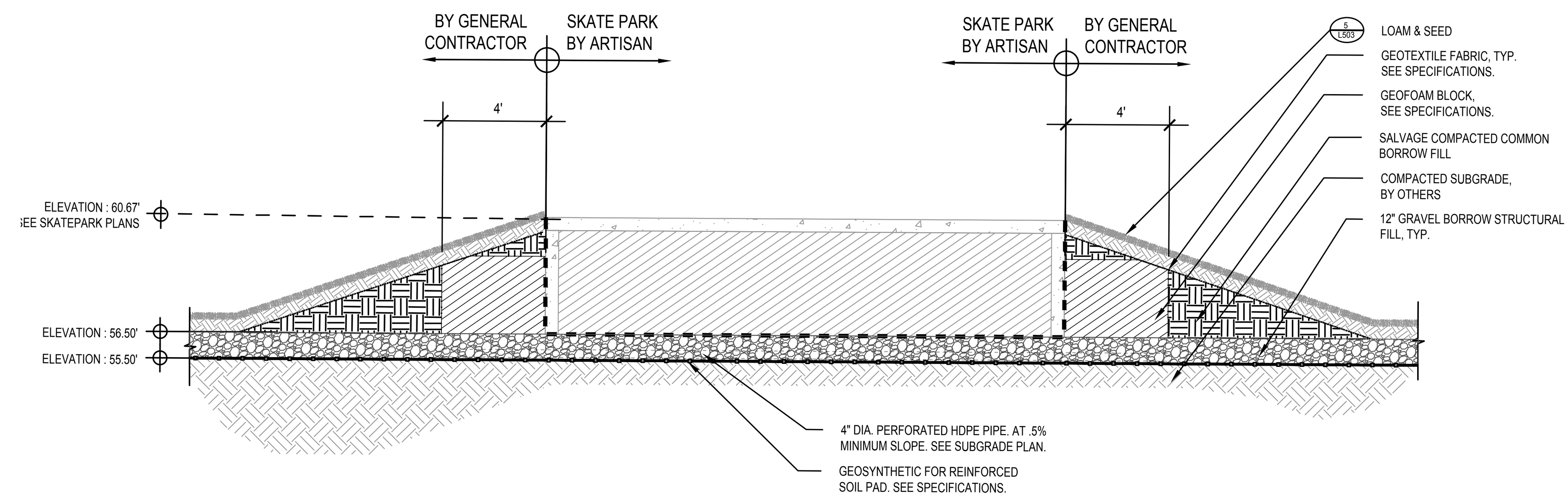
DRAWN BY: KC
REVIEWED BY: BK
APPROVED BY:
DATE: March 1, 2023

PROJECT: **PORTSMOUTH SKATEPARK**
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE: SUBGRADE ELEVATION PLAN
BID DOCUMENTS

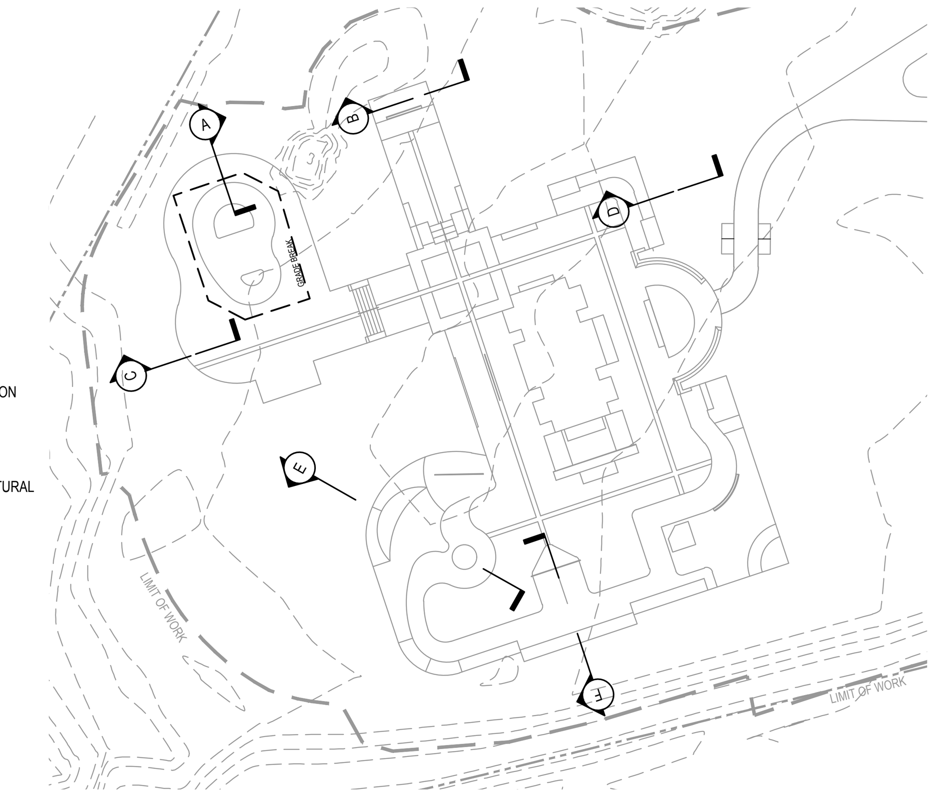
SHEET: **L141**
SKATE PARK



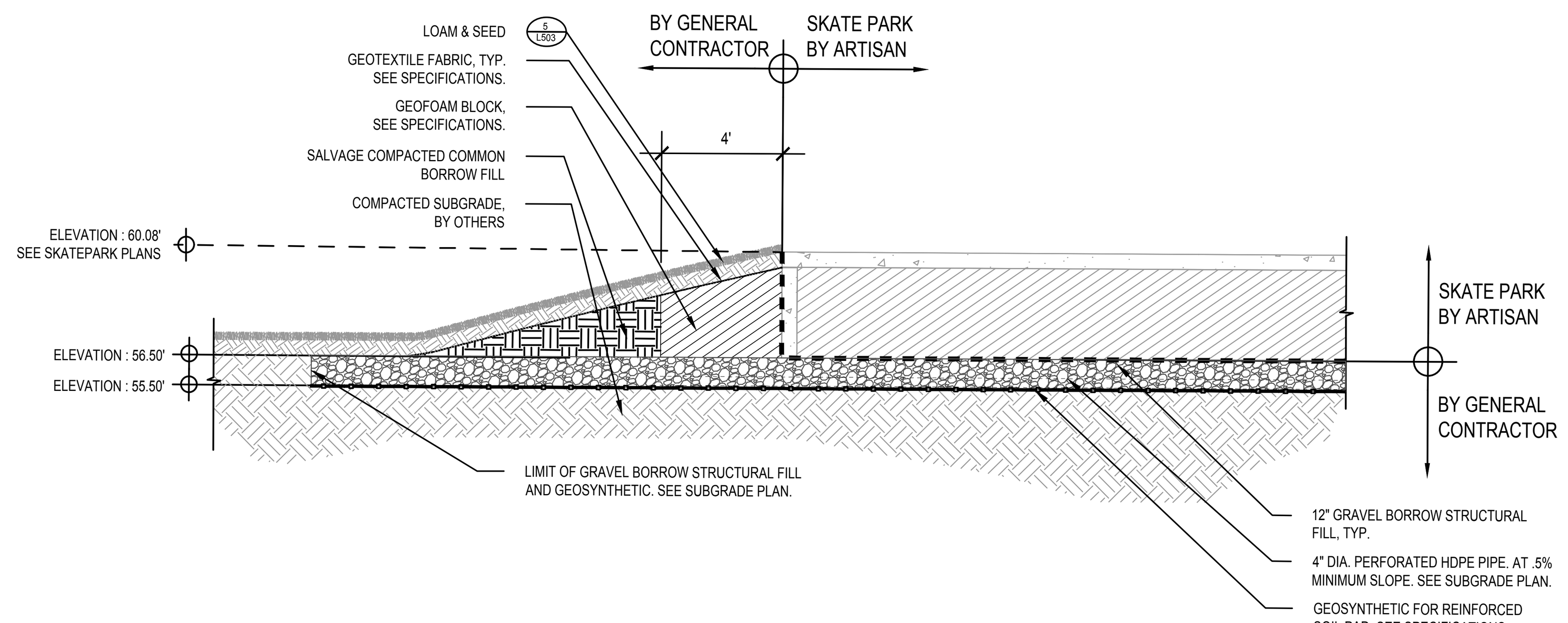
A SECTION A
SCALE: 1/4" = 1'-0"



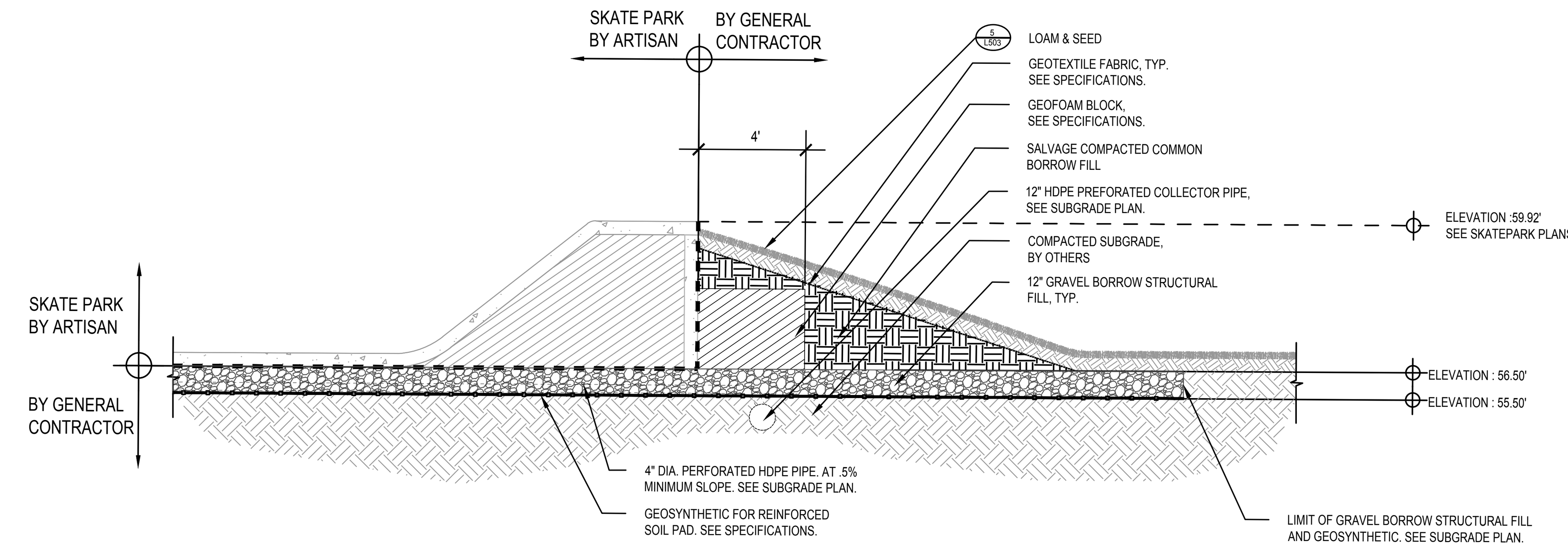
B SECTION B
SCALE: 1/4" = 1'-0"



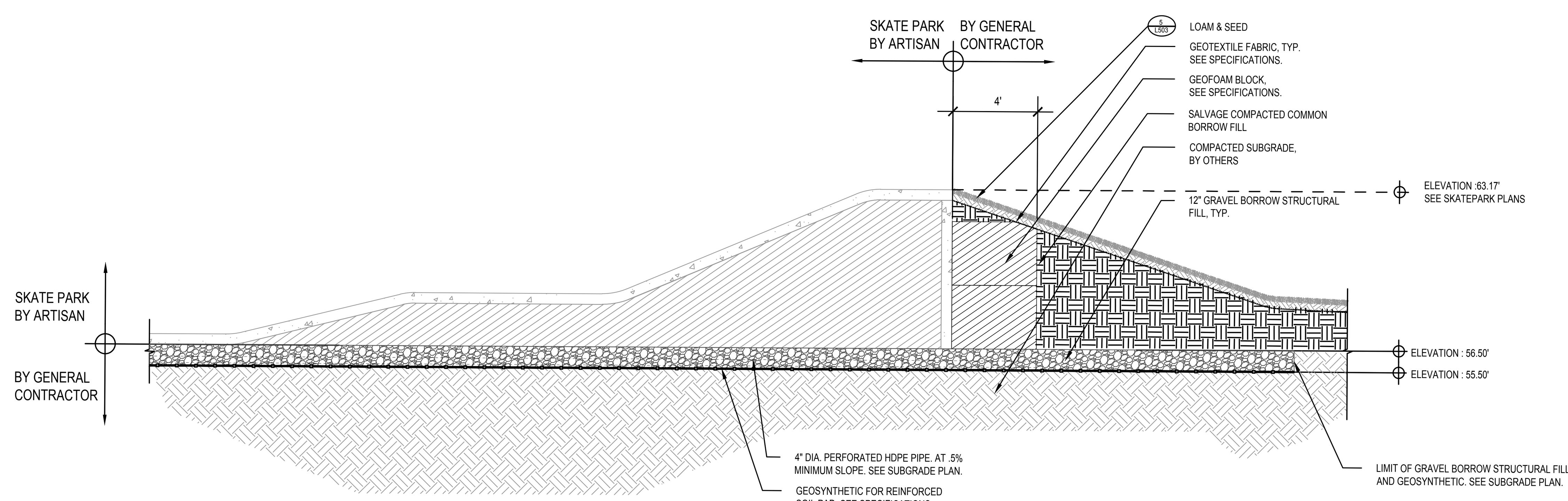
KEY PLAN



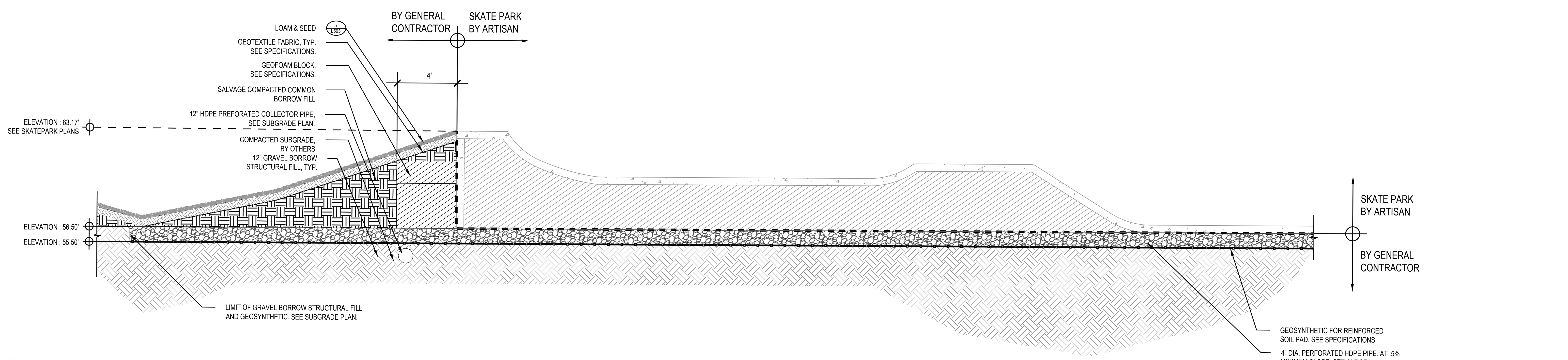
C SECTION C
SCALE: 1/4" = 1'-0"



D SECTION D
SCALE: 1/4" = 1'-0"



E SECTION E
SCALE: 1/4" = 1'-0"



F SECTION F
SCALE: 1/4" = 1'-0"

NOTES:

1. SUBGRADE ELEVATION TO BE PROVIDED BY OTHERS AND NOT INCLUDED IN CONTRACT. **THE AWARDED CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE TO ENSURE THE SUBGRADE ELEVATIONS MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS HEREIN. THE AWARDED CONTRACTOR SHALL ALSO PROVIDE FINAL COMPACTION IF NECESSARY AND SUPPLMENT THE CUT FILL IF REQUIRED TO DO SO, AND ENSURE SUBGRADE MEETS THE REQUIREMENTS OF THE SPECIFICATIONS.**
2. 4" HDPE PERFORATED PIPES ARE ILLUSTRATED IN THE SECTIONS FOR REFERENCE ONLY. ACTUAL LAYOUT AND SLOPES SHALL ALIGN WITH SUBGRADE PLAN- SHEET L141.

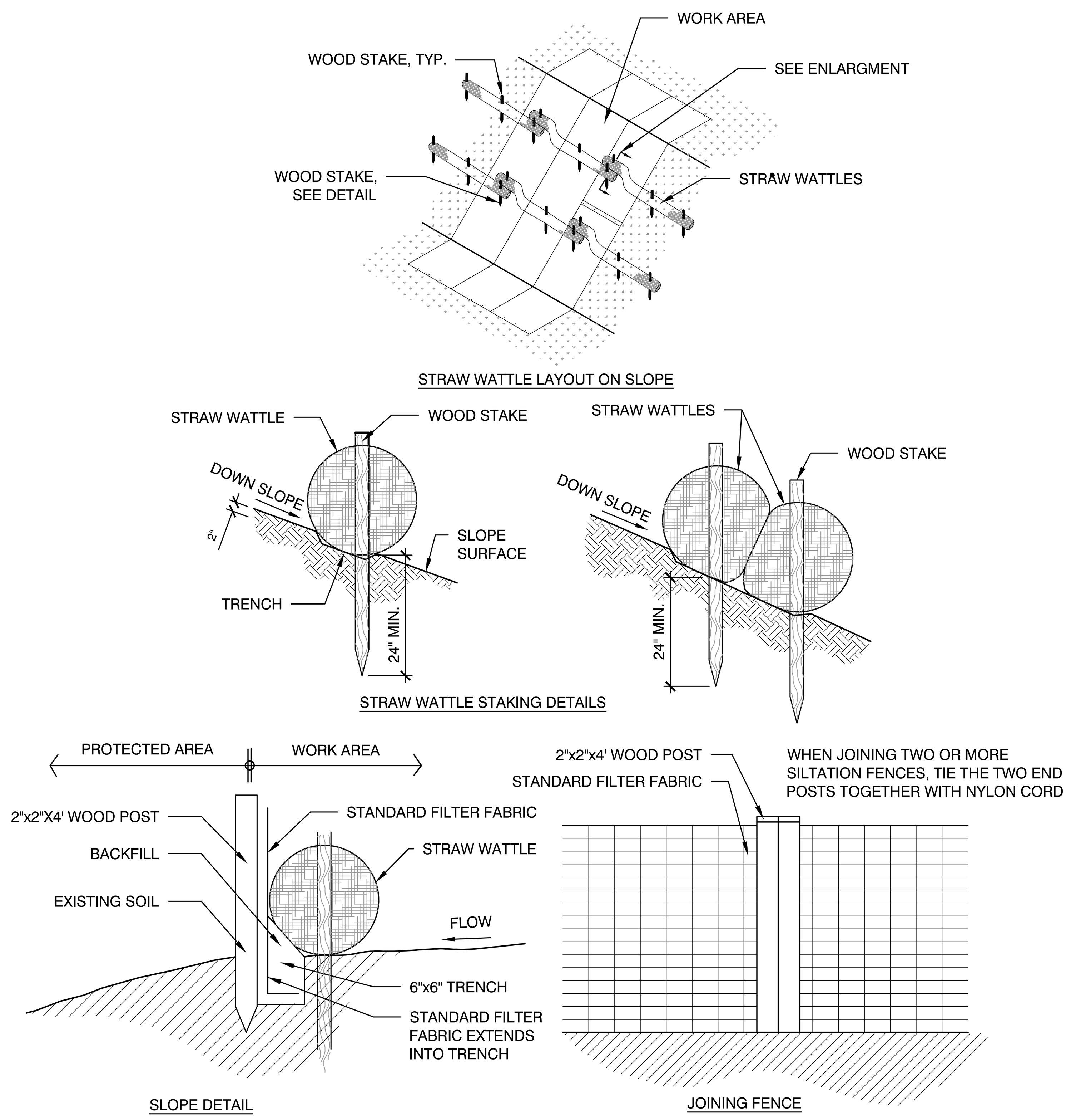
LICENSED LANDSCAPE ARCHITECT
Brandon Kunkel
00214
STATE OF NEW HAMPSHIRE

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

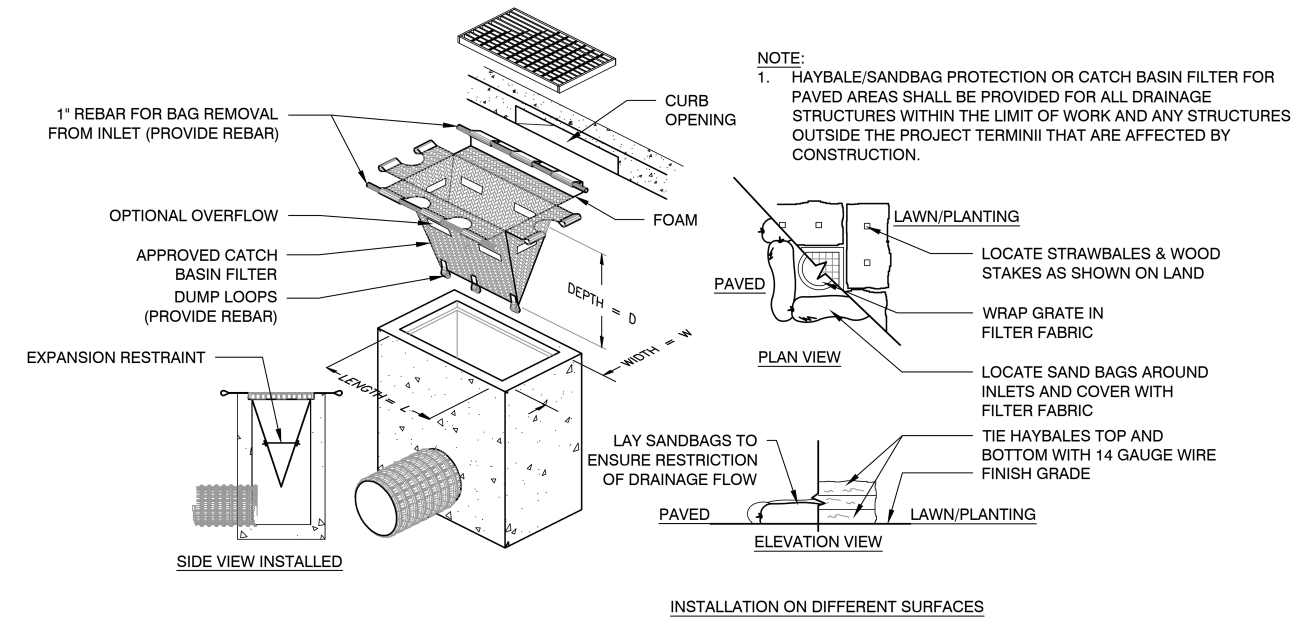
DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: March 1, 2023

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: SECTIONS
BID DOCUMENTS

SHEET:: L142
SKATE PARK

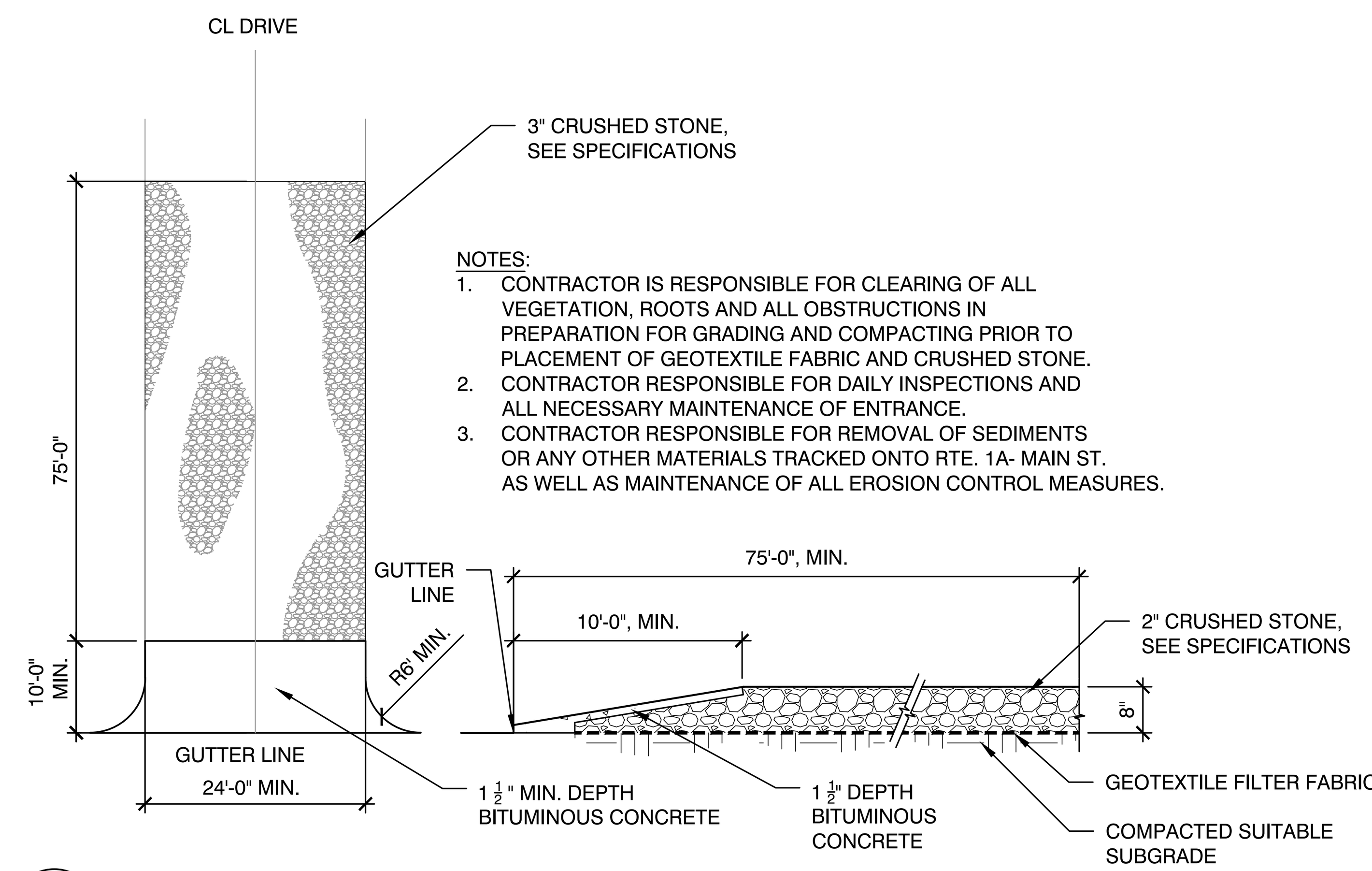


1 EROSION CONTROLS- STRAW WATTLES AND FILTER FABRIC
SCALE: NTS



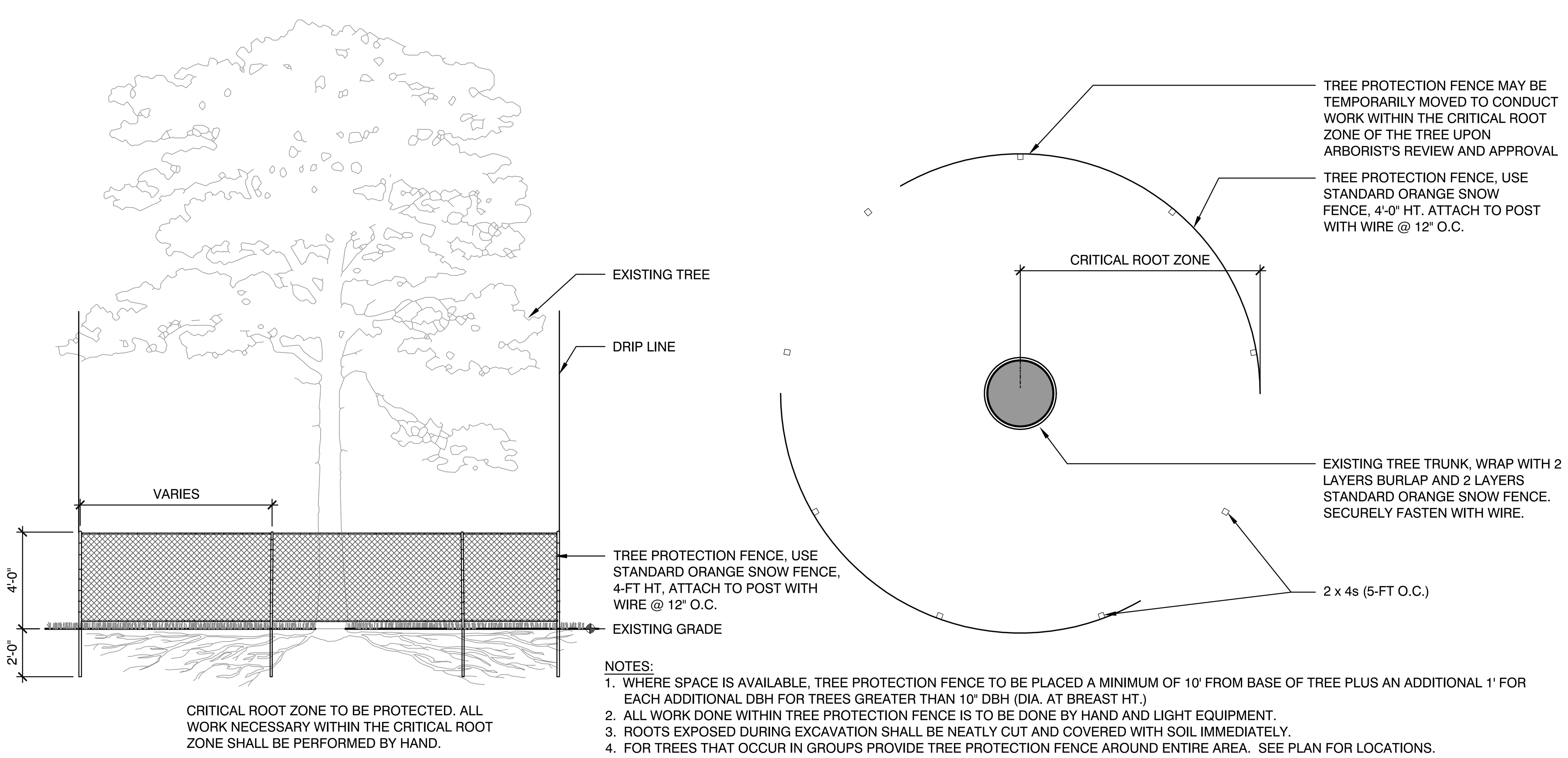
NOTE:
1. HAYBALE/SANDBAG PROTECTION OR CATCH BASIN FILTER FOR PAVED AREAS SHALL BE PROVIDED FOR ALL DRAINAGE STRUCTURES WITHIN THE LIMIT OF WORK AND ANY STRUCTURES OUTSIDE THE PROJECT TERMINII THAT ARE AFFECTED BY CONSTRUCTION.

2 CATCH BASIN/ INLET SEDIMENT CONTROL PROTECTION
SCALE: NTS



NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL VEGETATION, ROOTS AND ALL OBSTRUCTIONS IN PREPARATION FOR GRADING AND COMPACTING PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND CRUSHED STONE.
2. CONTRACTOR RESPONSIBLE FOR DAILY INSPECTIONS AND ALL NECESSARY MAINTENANCE OF ENTRANCE.
3. CONTRACTOR RESPONSIBLE FOR REMOVAL OF SEDIMENTS OR ANY OTHER MATERIALS TRACKED ONTO RTE. 1A- MAIN ST. AS WELL AS MAINTENANCE OF ALL EROSION CONTROL MEASURES.

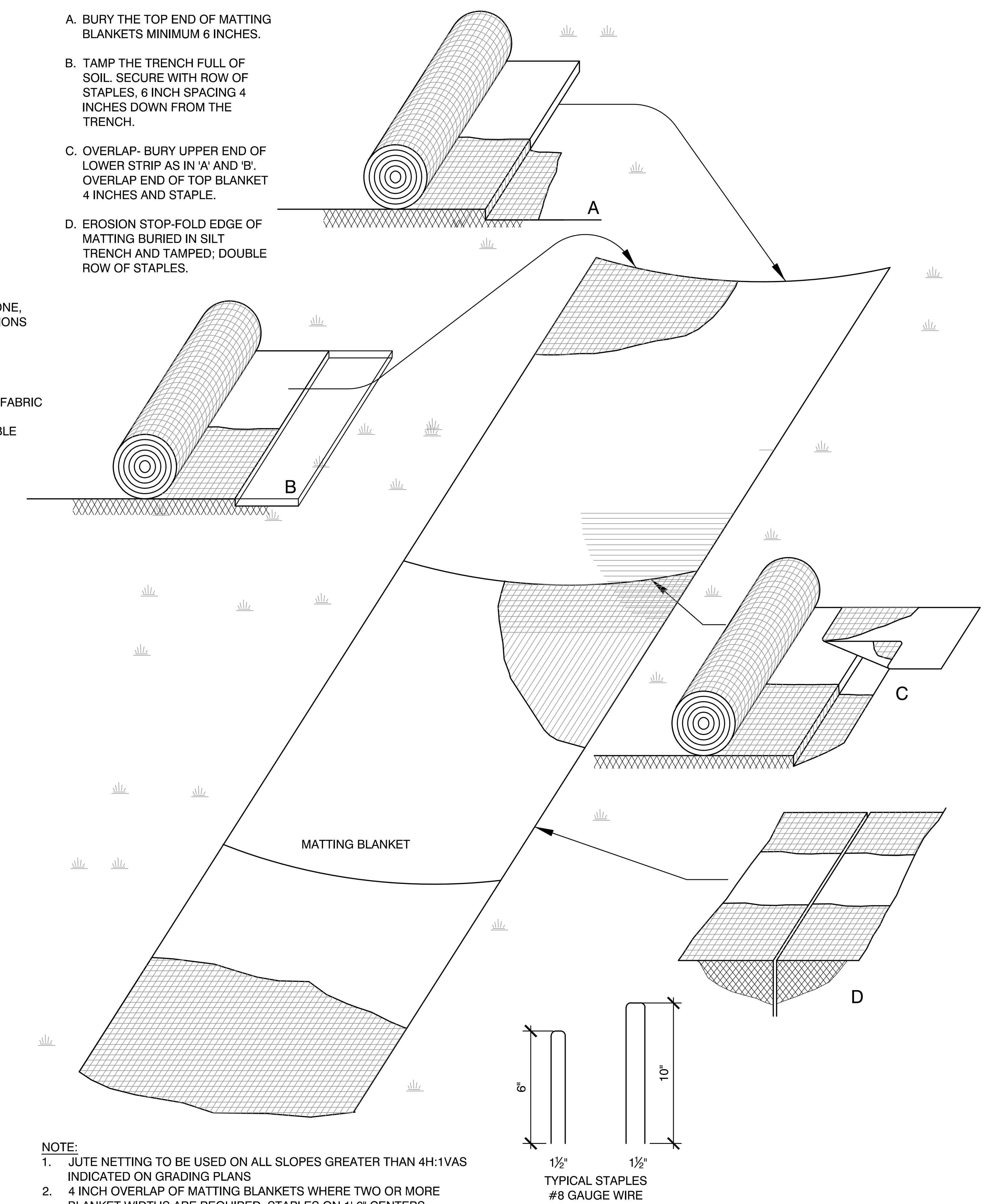
3 CONSTRUCTION ENTRANCE
SCALE: NTS



NOTES:
1. WHERE SPACE IS AVAILABLE, TREE PROTECTION FENCE TO BE PLACED A MINIMUM OF 10' FROM BASE OF TREE PLUS AN ADDITIONAL 1' FOR EACH ADDITIONAL DBH FOR TREES GREATER THAN 10" DBH (DIA. AT BREAST HT.)
2. ALL WORK DONE WITHIN TREE PROTECTION FENCE IS TO BE DONE BY HAND AND LIGHT EQUIPMENT.
3. ROOTS EXPOSED DURING EXCAVATION SHALL BE NEATLY CUT AND COVERED WITH SOIL IMMEDIATELY.
4. FOR TREES THAT OCCUR IN GROUPS PROVIDE TREE PROTECTION FENCE AROUND ENTIRE AREA. SEE PLAN FOR LOCATIONS.
5. MAINTAIN FENCE PROTECTION IN SOUND CONDITION UNTIL FENCE COMPLETION
6. A CERTIFIED ARBORIST SHALL DELINEATE LIMIT OF TREE PROTECTION FENCE AS THEY RELATE TO THE LIMITS OF THE CRITICAL ROOT ZONE.

4 TREE PROTECTION
SCALE: NTS

A. BURY THE TOP END OF MATTING BLANKETS MINIMUM 6 INCHES.
B. TAMP THE TRENCH FULL OF SOIL. SECURE WITH ROW OF STAPLES, 6 INCH SPACING 4 INCHES DOWN FROM THE TRENCH.
C. OVERLAP- BURY UPPER END OF LOWER STRIP AS IN 'A' AND 'B'. OVERLAP END OF TOP BLANKET 4 INCHES AND STAPLE.
D. EROSION STOP-FOLD EDGE OF MATTING BURIED IN SILT TRENCH AND TAMPED; DOUBLE ROW OF STAPLES.



NOTE:
1. JUTE NETTING TO BE USED ON ALL SLOPES GREATER THAN 4H:1VAS INDICATED ON GRADING PLANS
2. 4 INCH OVERLAP OF MATTING BLANKETS WHERE TWO OR MORE BLANKET WIDTHS ARE REQUIRED. STAPLES ON 1'-6" CENTERS.
3. STAPLE OUTSIDE EDGE ON 2'-0" CENTERS.
4. THERE SHALL BE NO PLASTIC OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN ¼" MATERIAL.
5. TURF REINFORCEMENT MATS SHALL BE COVERED WITH SOIL TO PREVENT EXPOSURE OF THE MATS TO THE SURFACE.

5 EROSION CONTROL BLANKET
SCALE: NTS

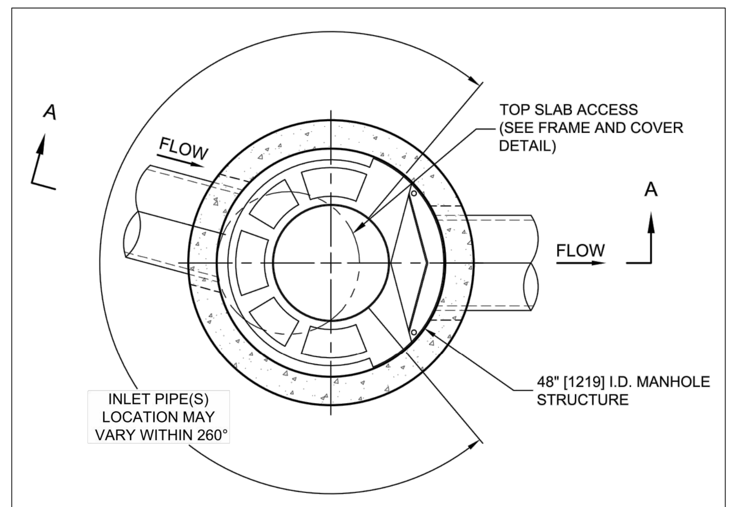
Brandon Kunkel 00214

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

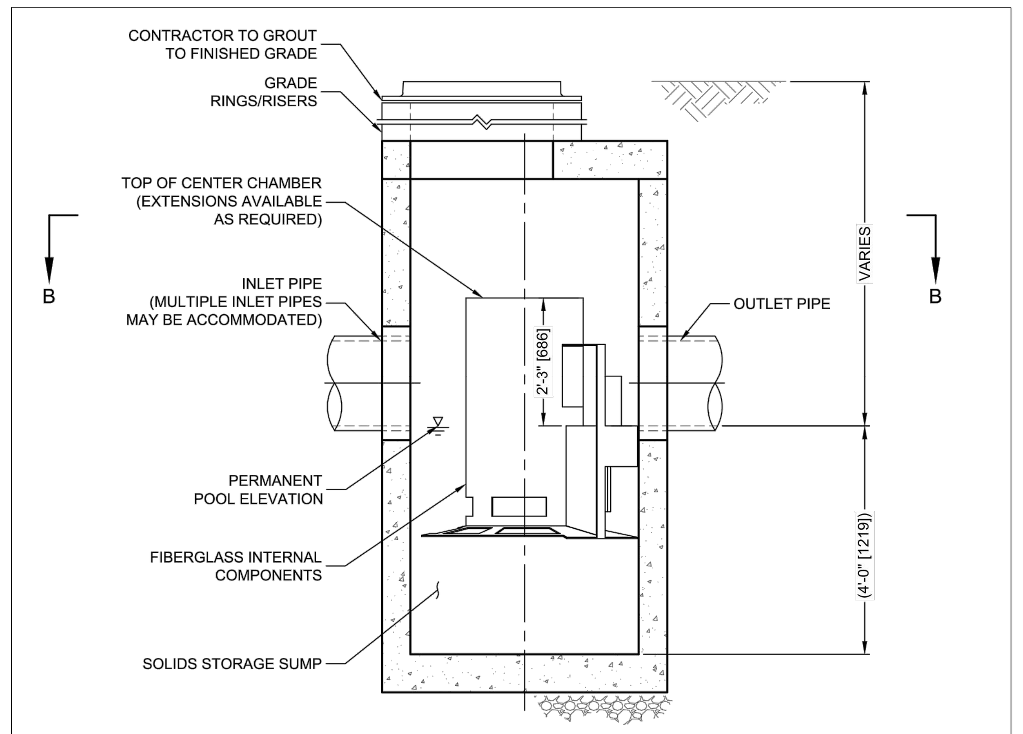
DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: 03/01/2023

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: CONSTRUCTION DETAILS
BID DOCUMENTS

SHEET:: L500
SKATE PARK

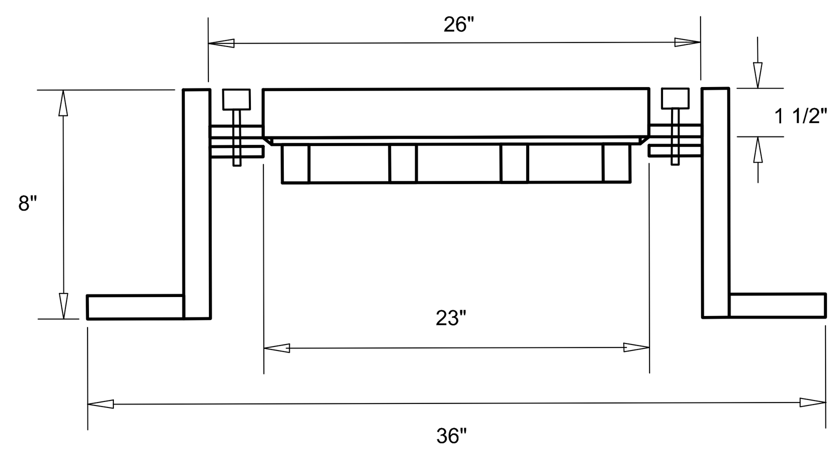


PLAN VIEW A-A
NOT TO SCALE



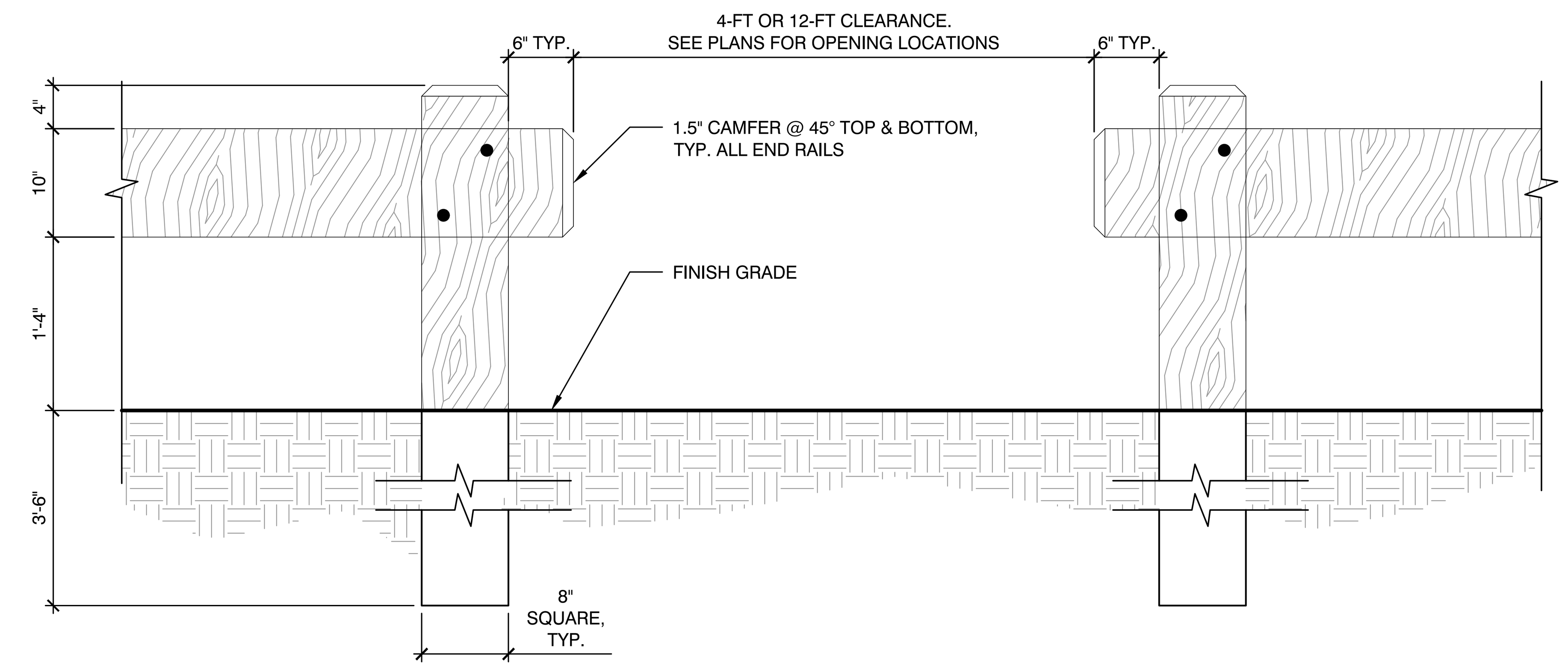
SECTION VIEW B-B
NOT TO SCALE

1 CONTECH CASCADE CS-4 HYDRODYNAMIC SEPARATOR
SCALE: NTS

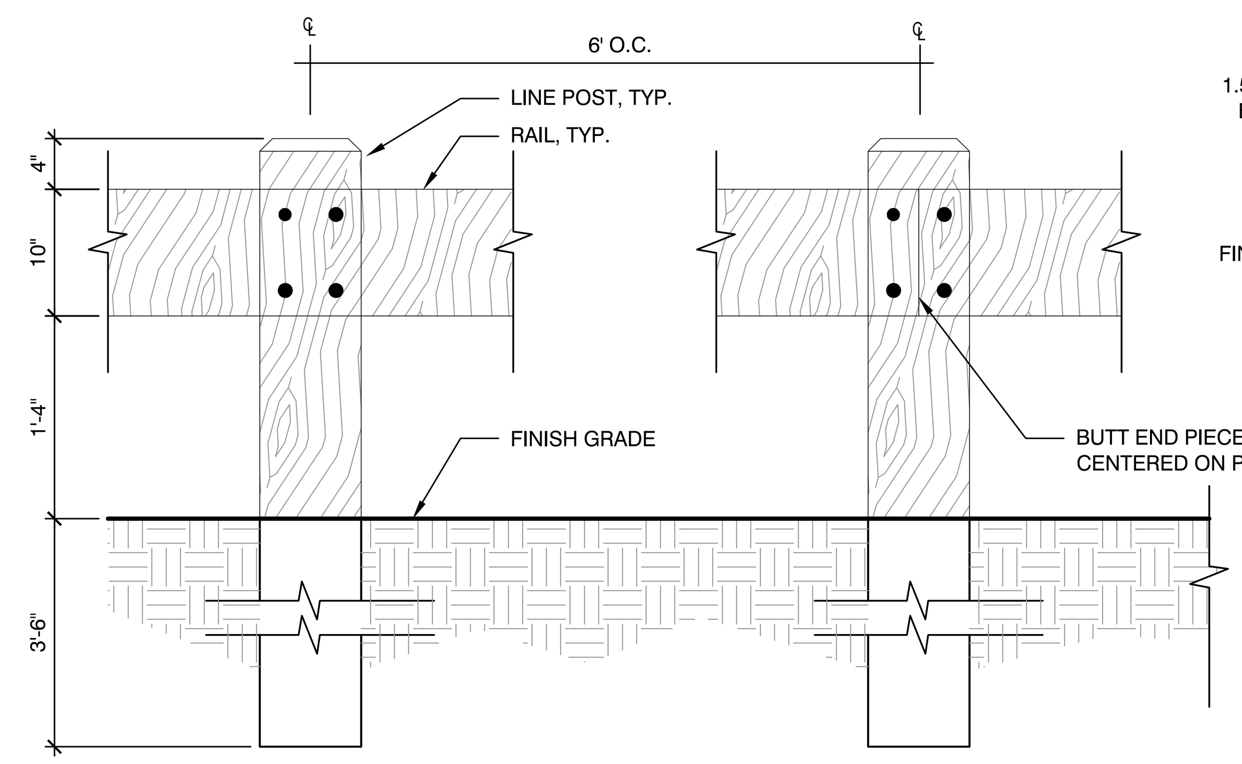


NOTES:
1. MANHOLE LIDS ARE TO BE LOCATED AS SHOWN ON PLANS.
2. MANHOLE FRAMES AND LIDS ARE TO CONFORM TO ALL CITY OF PORTSMOUTH RULES & REGULATIONS.

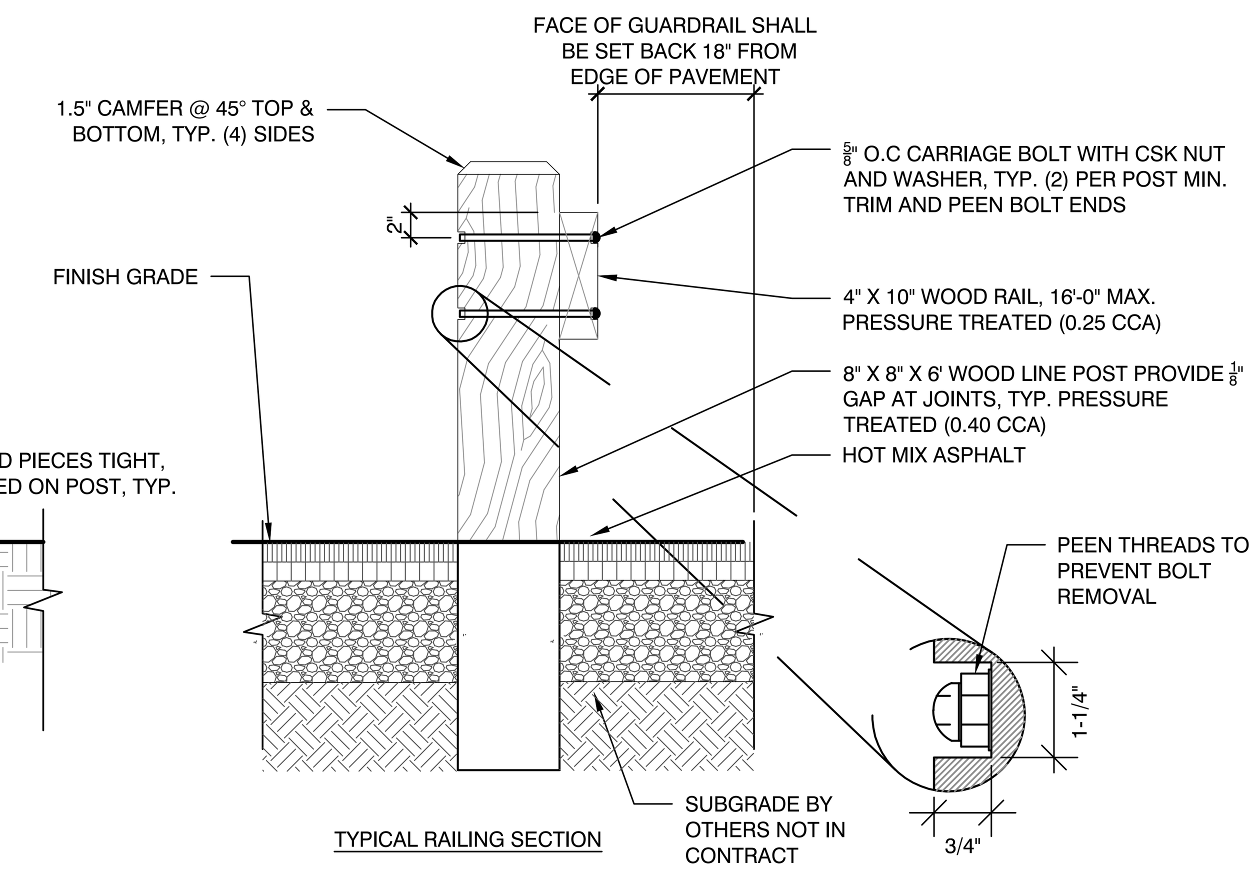
2 STANDARD DRAIN MANHOLE FRAME AND LID
SCALE: NTS



TYPICAL RAILING OPENING/ TERMINAL

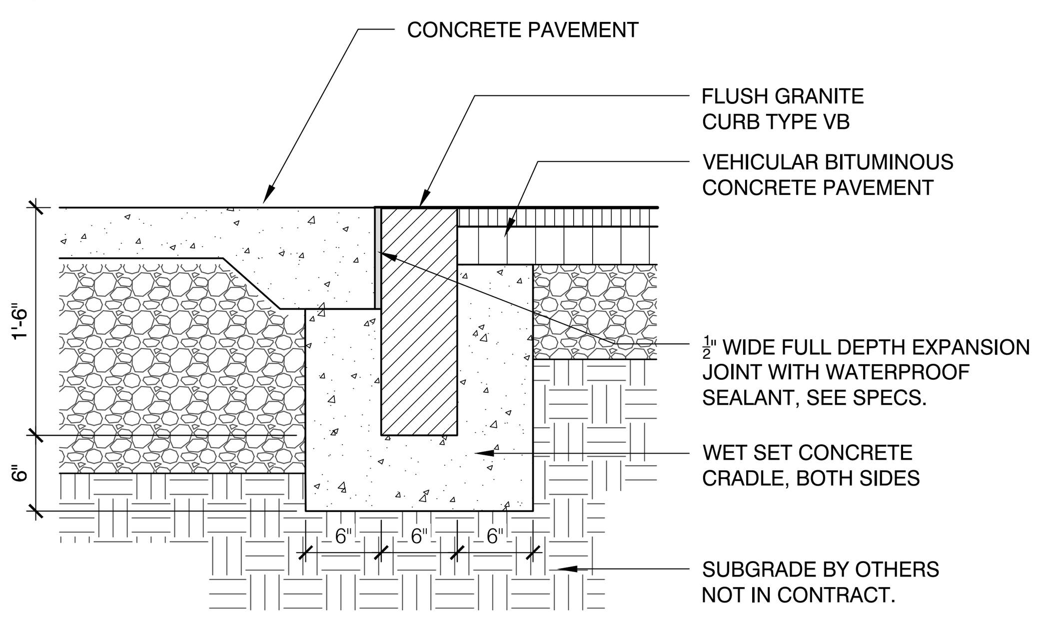


TYPICAL RAILING ELEVATION

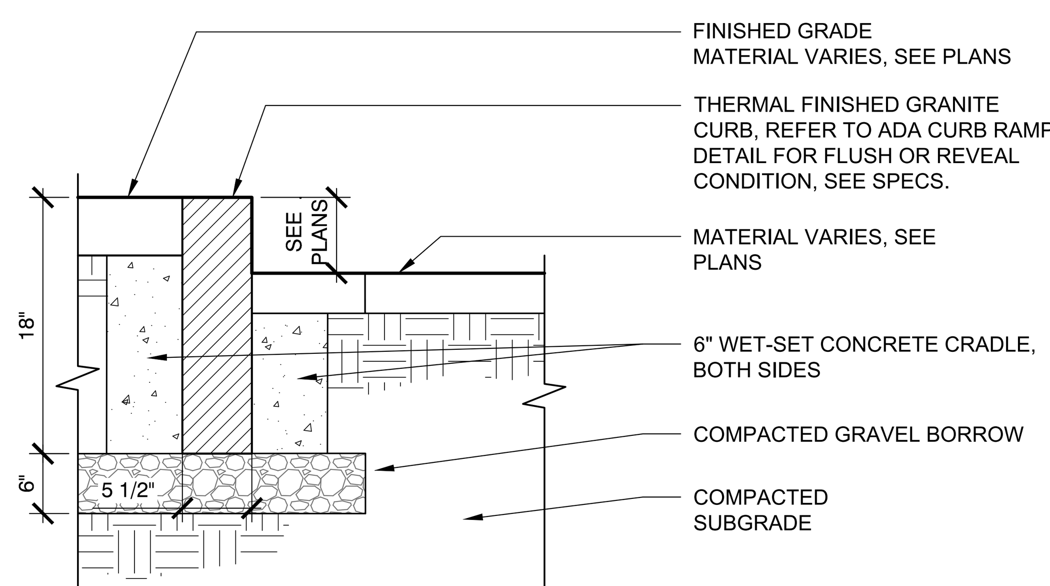


TYPICAL RAILING SECTION

4 WOOD GUARDRAIL
SCALE: NTS

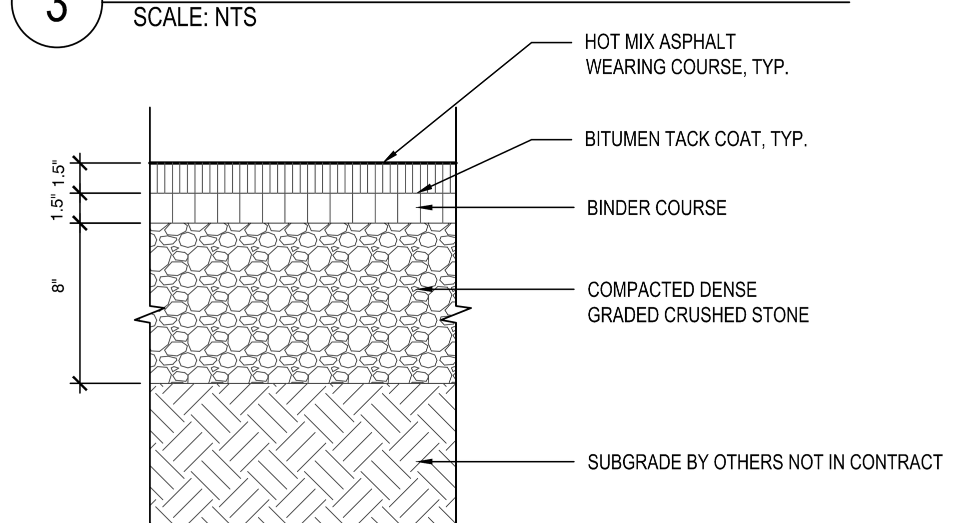


FLUSH CONDITION



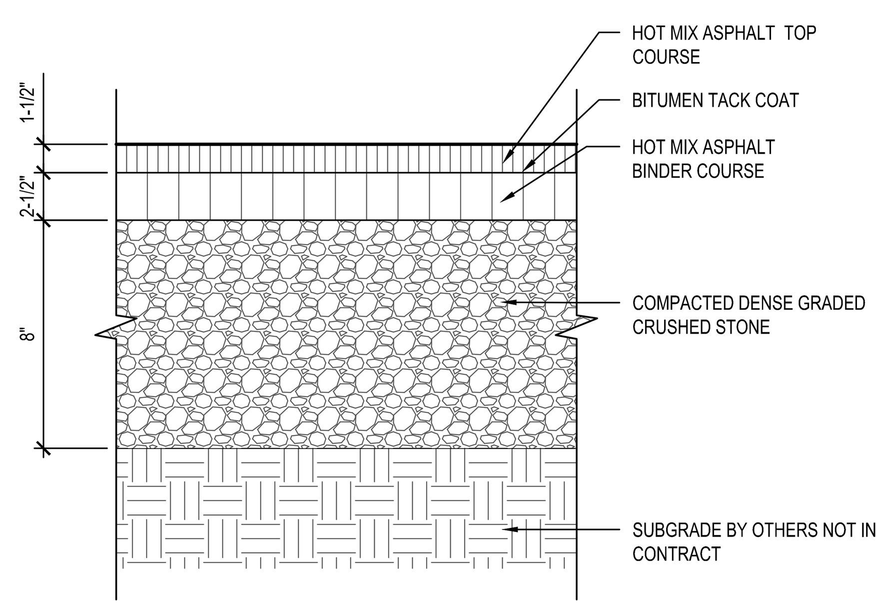
VERTICAL CONDITION

3 GRANITE CURB
SCALE: NTS



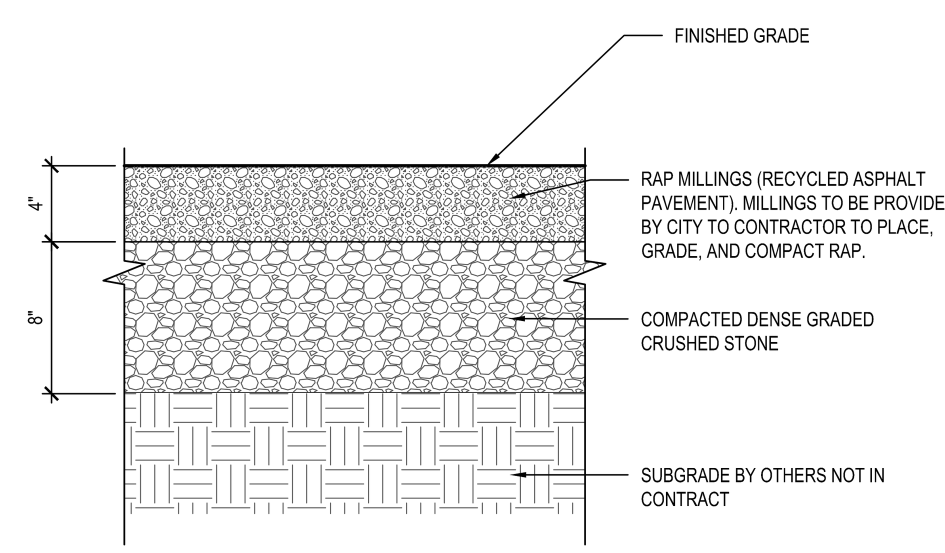
NOTE:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT

5 HOT MIX ASPHALT PAVEMENT SIDEWALK
SCALE: NTS

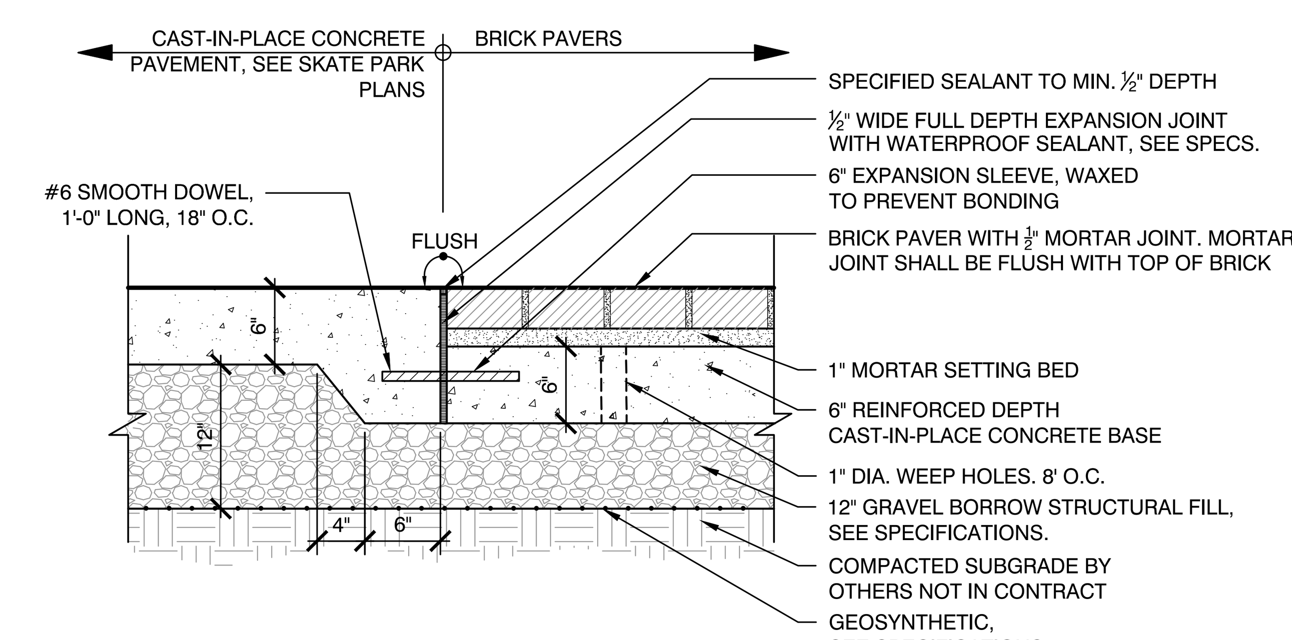


NOTE:
1. CONTRACTOR TO PROVIDE SMOOTH TRANSITION WHERE NEW PAVEMENT ABUTS EXISTING PAVEMENT.

6 VEHICULAR HOT MIX ASPHALT PAVEMENT
SCALE: NTS



7 RECYCLED ASPHALT PAVEMENT (RAP)
SCALE: NTS



8 BRICK PAVERS - TYPE 1
SCALE: NTS

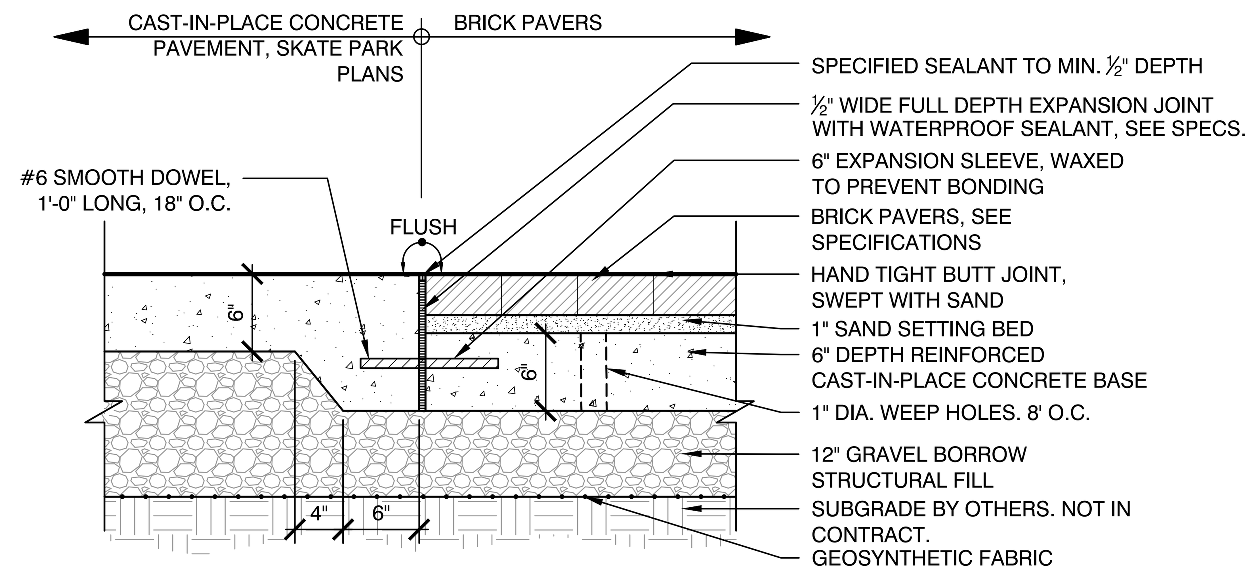
Weston & Sampson
design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: 03/01/2023

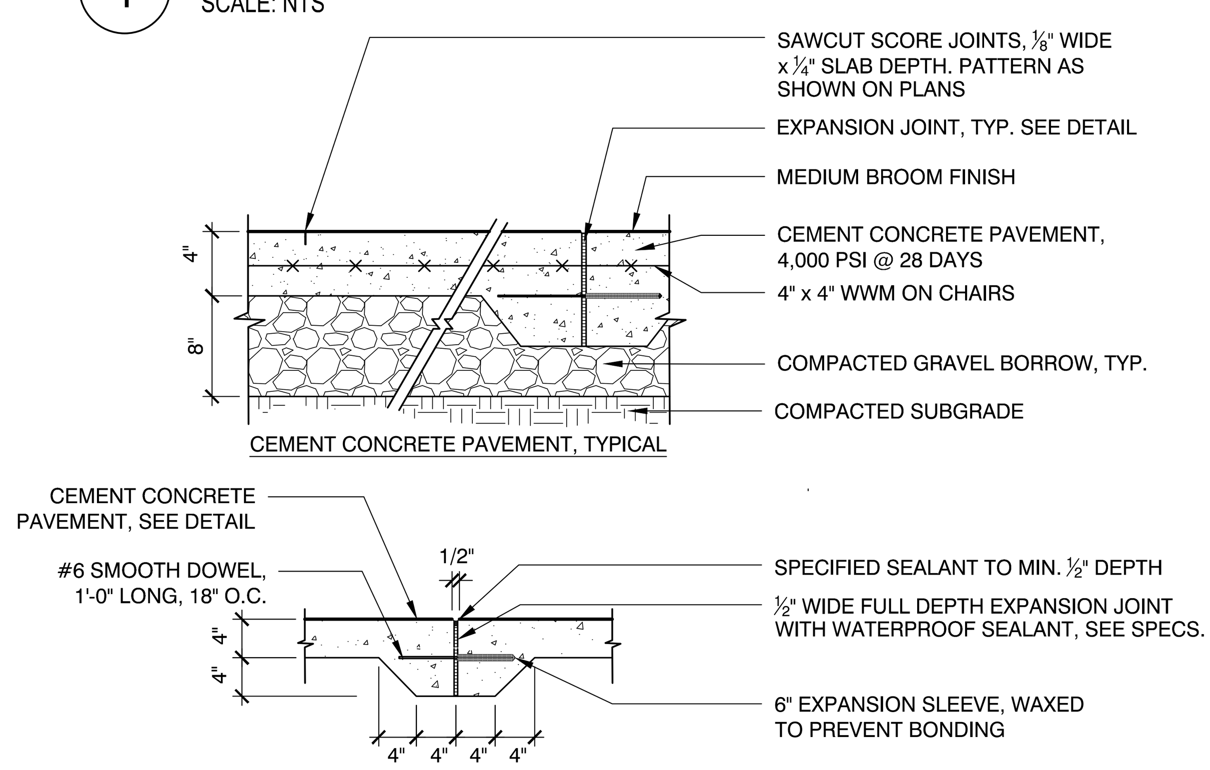
PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
CONSTRUCTION DETAILS
BID DOCUMENTS

SHEET::
L501
SKATE PARK



1 BRICK PAVERS - TYPE 2
SCALE: NTS

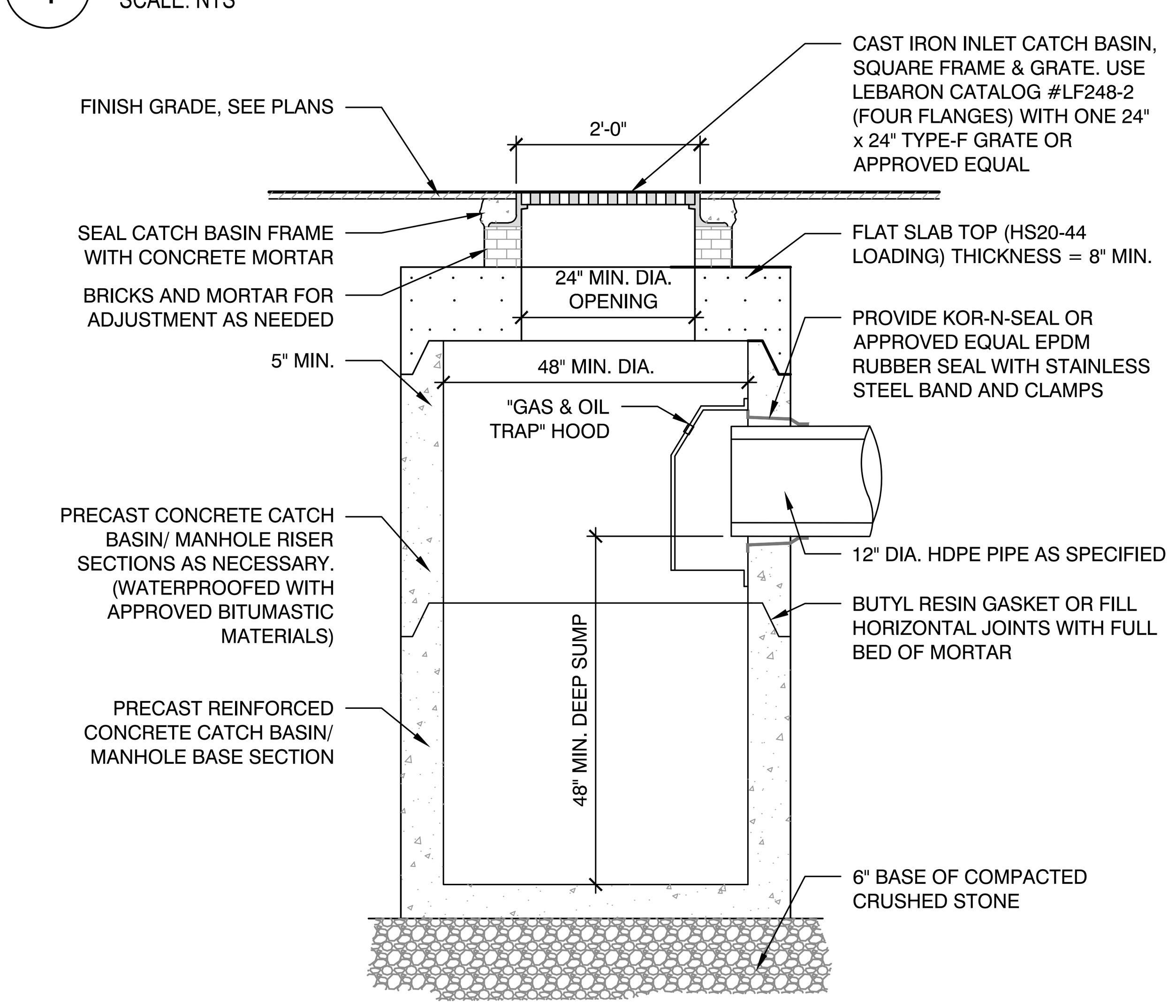


EXPANSION JOINT INSTALLATION NOTES:

1. DOWEL IS TYPICAL AT ALL EXPANSION JOINTS (18" O.C.) WITHIN CONCRETE PAVING AND BETWEEN NEW CONCRETE PAVING AND EXISTING CONCRETE PAVING TO REMAIN.
2. DELETE EXPANSION SLEEVE AND DOWEL WHERE JOINT ABUTS WALL, CURBS, OR OTHER VERTICAL SURFACES, UNLESS OTHERWISE NOTED.
3. EXPANSION JOINTS MAX. 25'-0" O.C. UNLESS SHOWN OTHERWISE.
4. EXPANSIONS JOINTS SHALL BE PLACED WHERE NEW CEMENT CONCRETE PAVEMENT MEETS EXISTING PAVEMENT OR WALLS TO REMAIN.

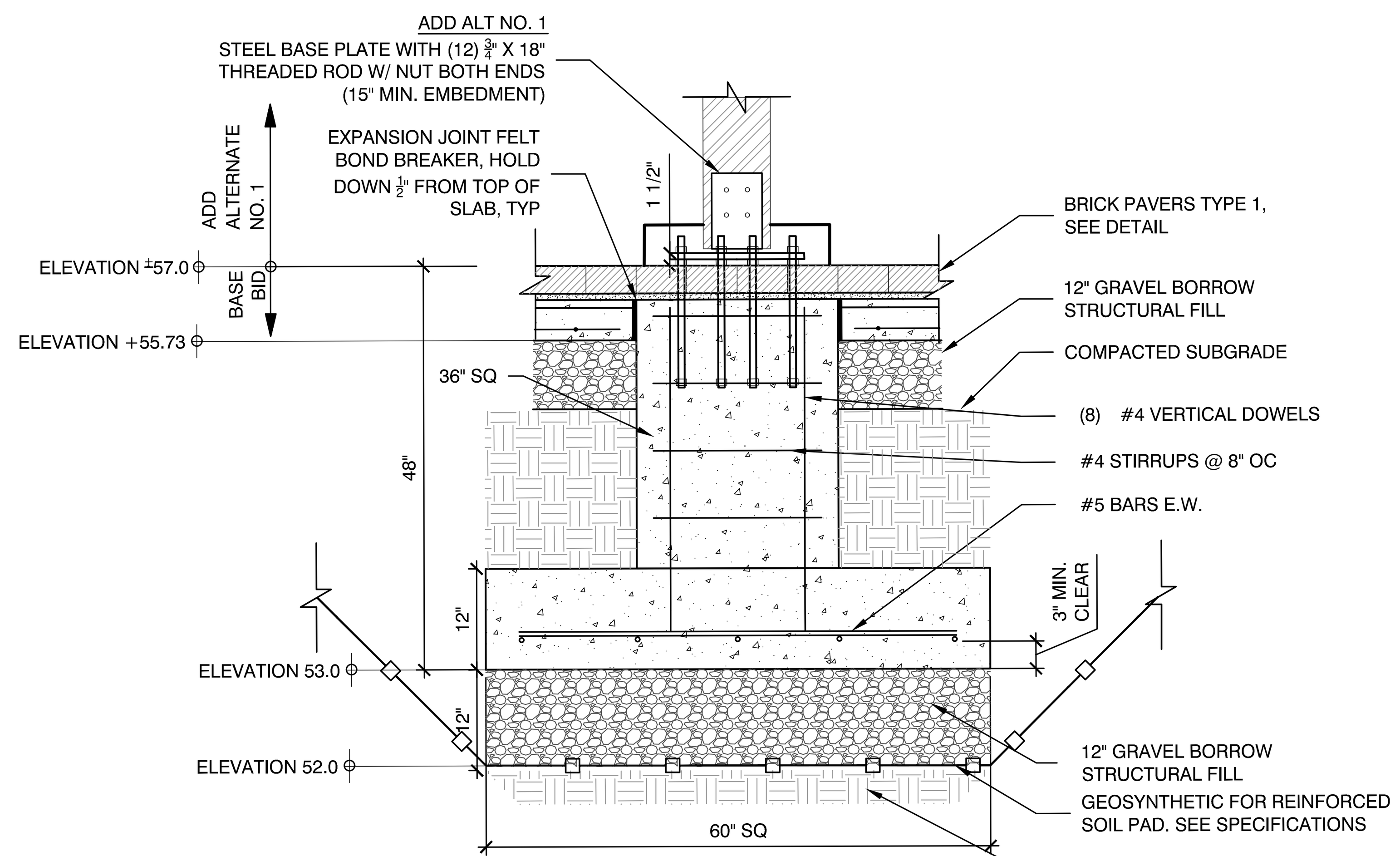
EXPANSION JOINT, TYPICAL

4 CAST-IN-PLACE CONCRETE PAVEMENT AND EXPANSION JOINT
SCALE: NTS



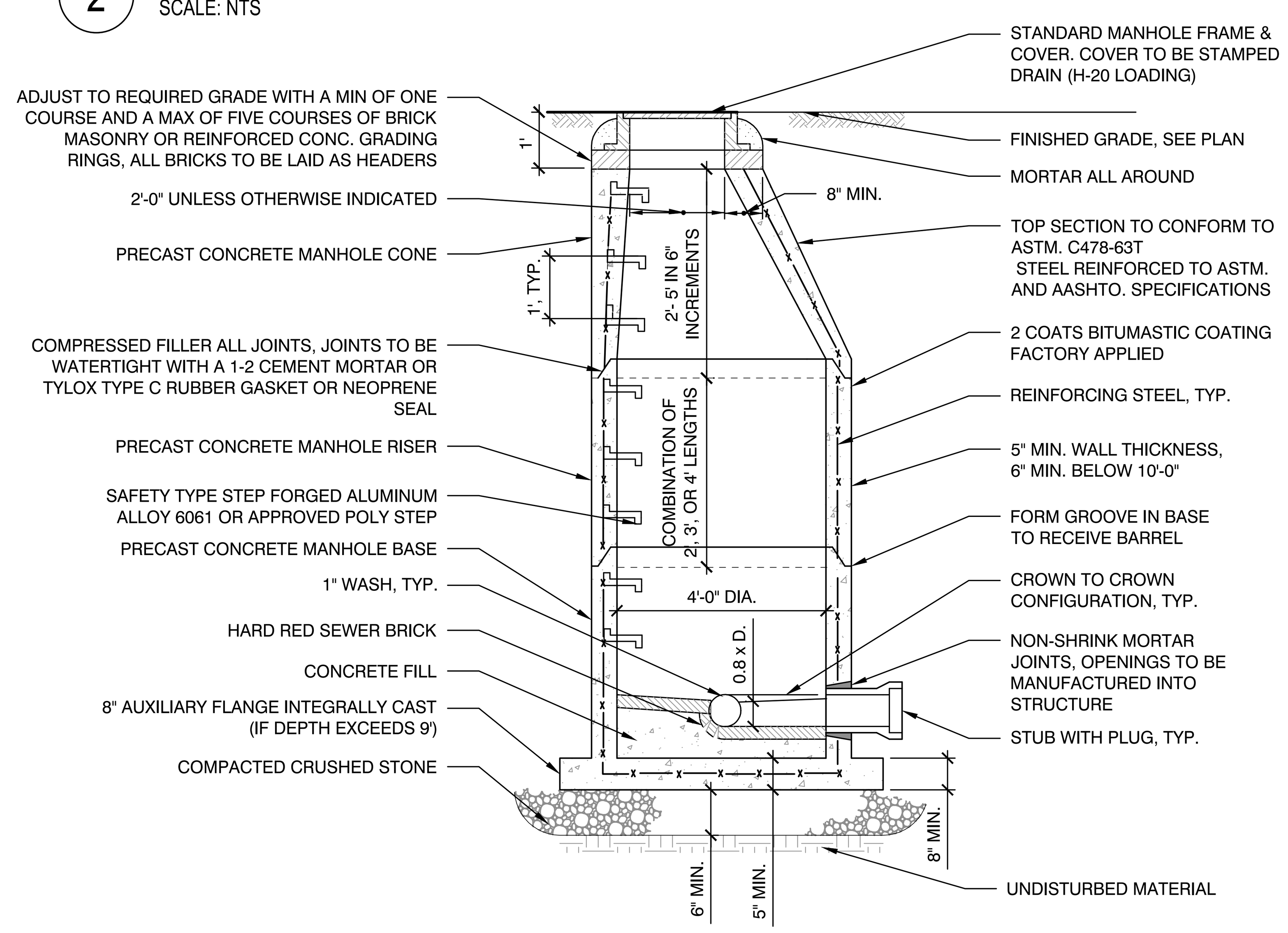
NOTES:
1. FOR DOUBLE CATCH BASINS, STRUCTURE SHALL BE 6' IN DIA.

6 CATCH BASIN
SCALE: NTS

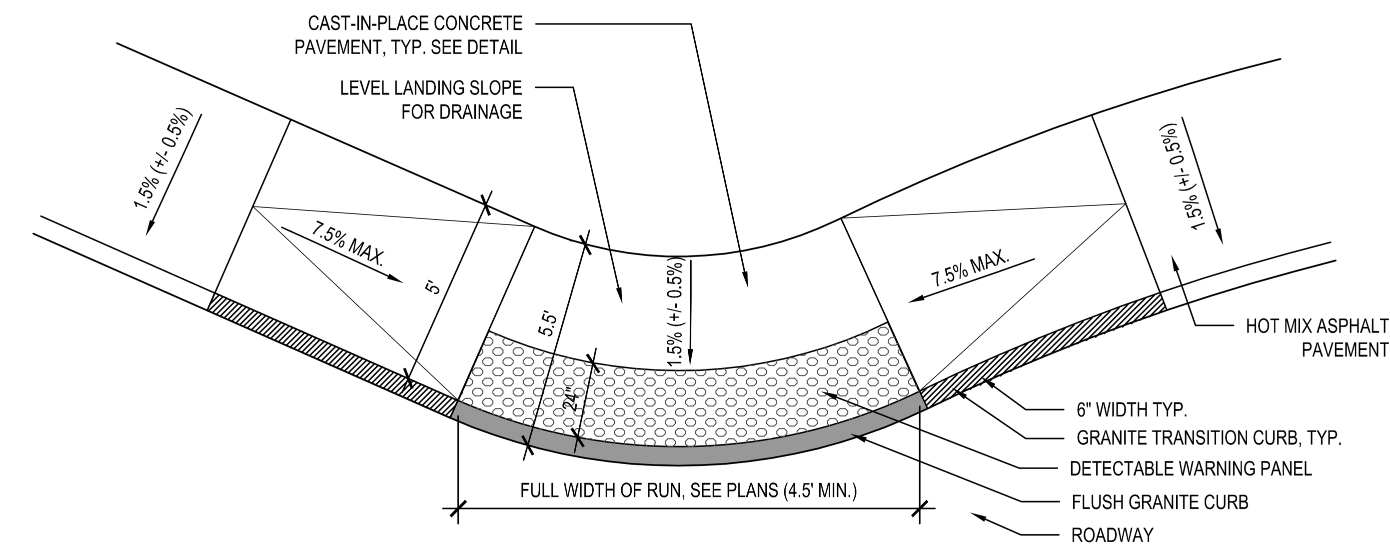


NOTE:
1. UNDER THIS CONTRACT, CONTRACTOR SHALL EXCAVE TO THE APPROPRIATE DEPTH. AS INDICATED ON DETAIL AND INSTALL SHADE STRUCTURE FOUNDATION UNDER THE BASE BID CONTRAC. ALL HARDWARE, CONNECTIONS AND ATTACHMENTS ASSOCIATED WITH THE SHADE STRUCTURE ARE TO BE INCLUDED IN ADD ALTERNATE NO.1 AND ARE NOT PART OF THE BASE BID, AND FOR REFERENCE ONLY.

2 POST FOUNDATION FOR SHADE STRUCTURE
SCALE: NTS

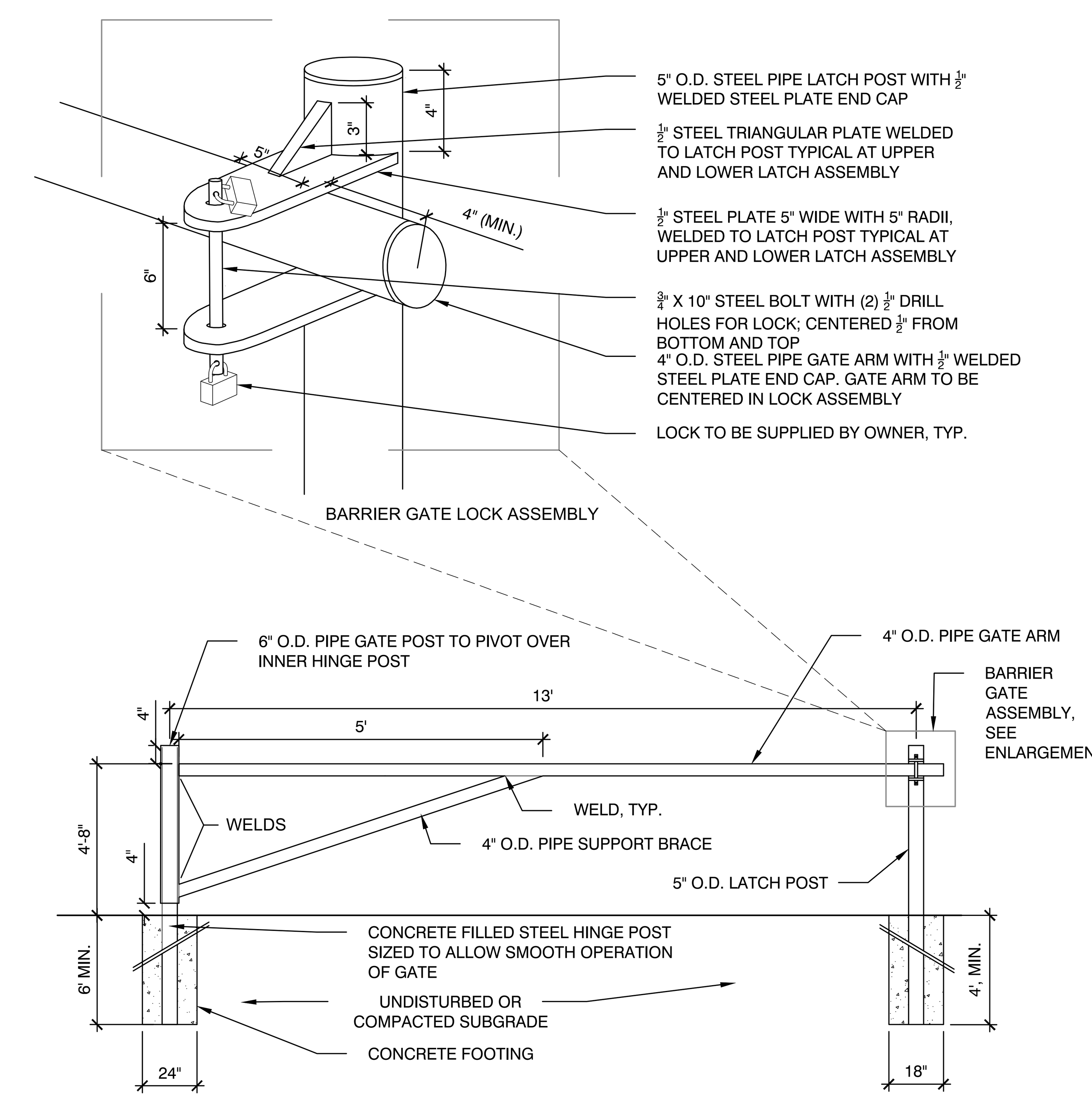


5 DRAIN MANHOLE
SCALE: NTS



NOTES:
1. CONTRACTOR SHALL PROVIDE CLEAN AND STRAIGHT SAWCUT LINES AT LIMIT OF REMOVAL OF EXISTING ASPHALT PAVEMENT TO REMAIN. CONTRACTOR SHALL VERIFY LIMITS OF EXISTING ASPHALT PAVEMENT REMOVAL PRIOR TO COMMENCING DEMOLITION.
2. CONTRACTOR SHALL REMOVE AND REPLACE ASPHALT PAVEMENT, GRAVEL BORROW, AND SUBGRADE NECESSARY TO CONSTRUCT A CLEAN, SMOOTH TRANSITION AT ADA CURB CUT.

3 ADA CURB RAMP
SCALE: NTS



NOTES:
1. ALL STEEL PIPE SHALL BE SCHEDULE 40.
2. ALL STEEL SHALL BE FABRICATED WITH WELDS GROUND SMOOTH, AND EACH COMPONENT HOT-DIPPED GALVANIZED.
3. PROVIDE TWO LATCH POST, ONE IN OPEN POSITION, AND ONE IN CLOSED POSITION.

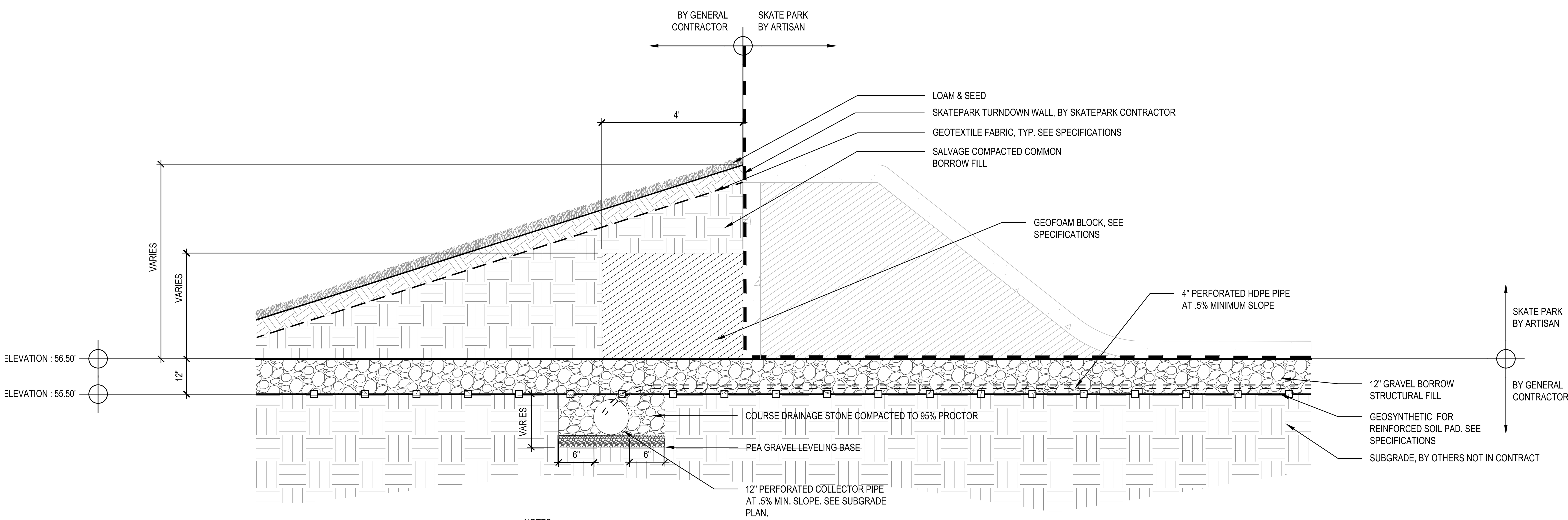
LICENSED LANDSCAPE ARCHITECT
Brandon Kunkel
00214
STATE OF NEW HAMPSHIRE

7 PIPE GATE - NOT IN CONTRACT, FOR REFERENCE ONLY
SCALE: NTS

Weston & Sampson
design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

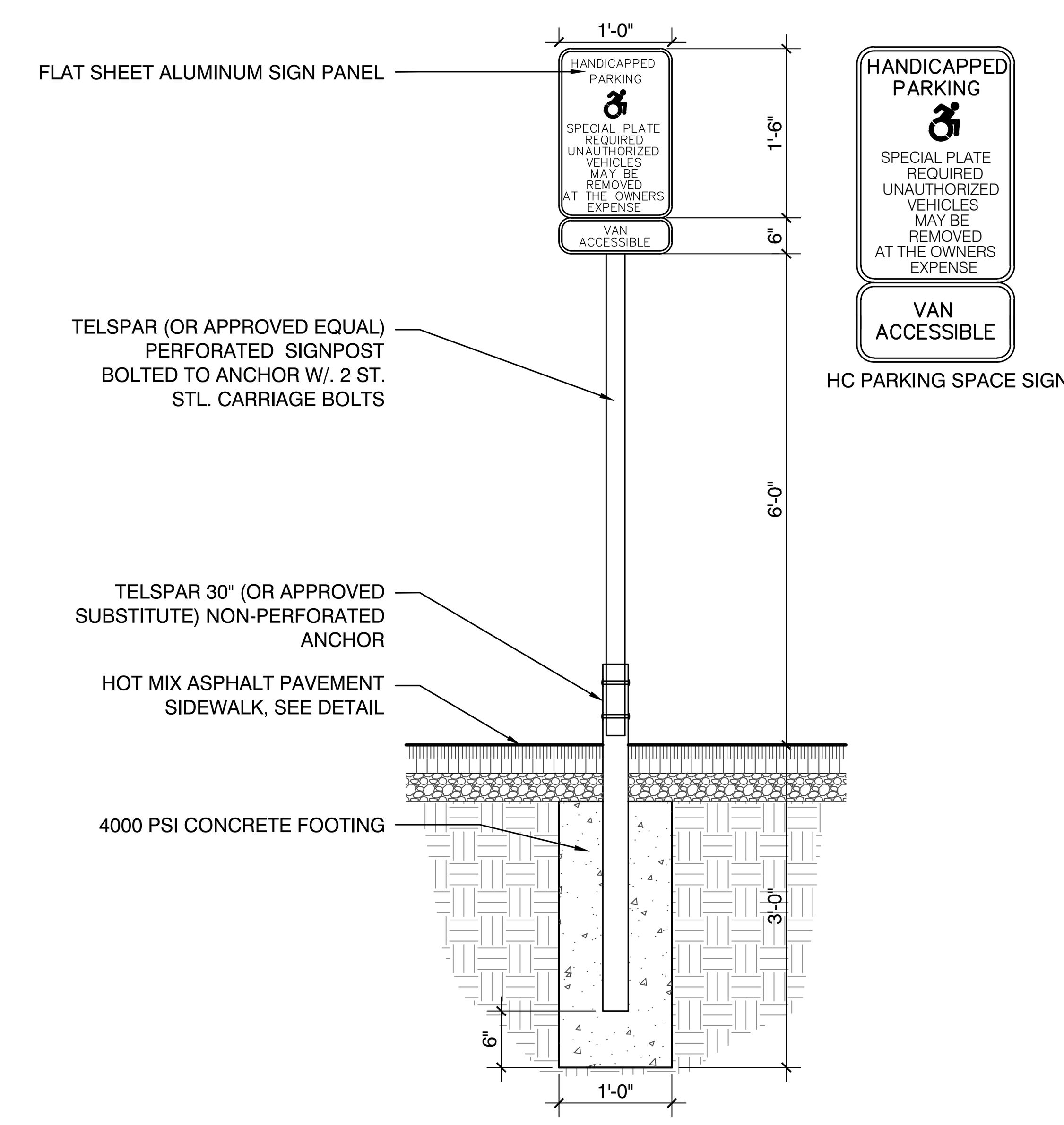
DRAWN BY: KC
REVIEWED BY: BK
APPROVED BY:
DATE: 03/01/2023

PROJECT: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE: CONSTRUCTION DETAILS
BID DOCUMENTS
SHEET: L502
SKATE PARK

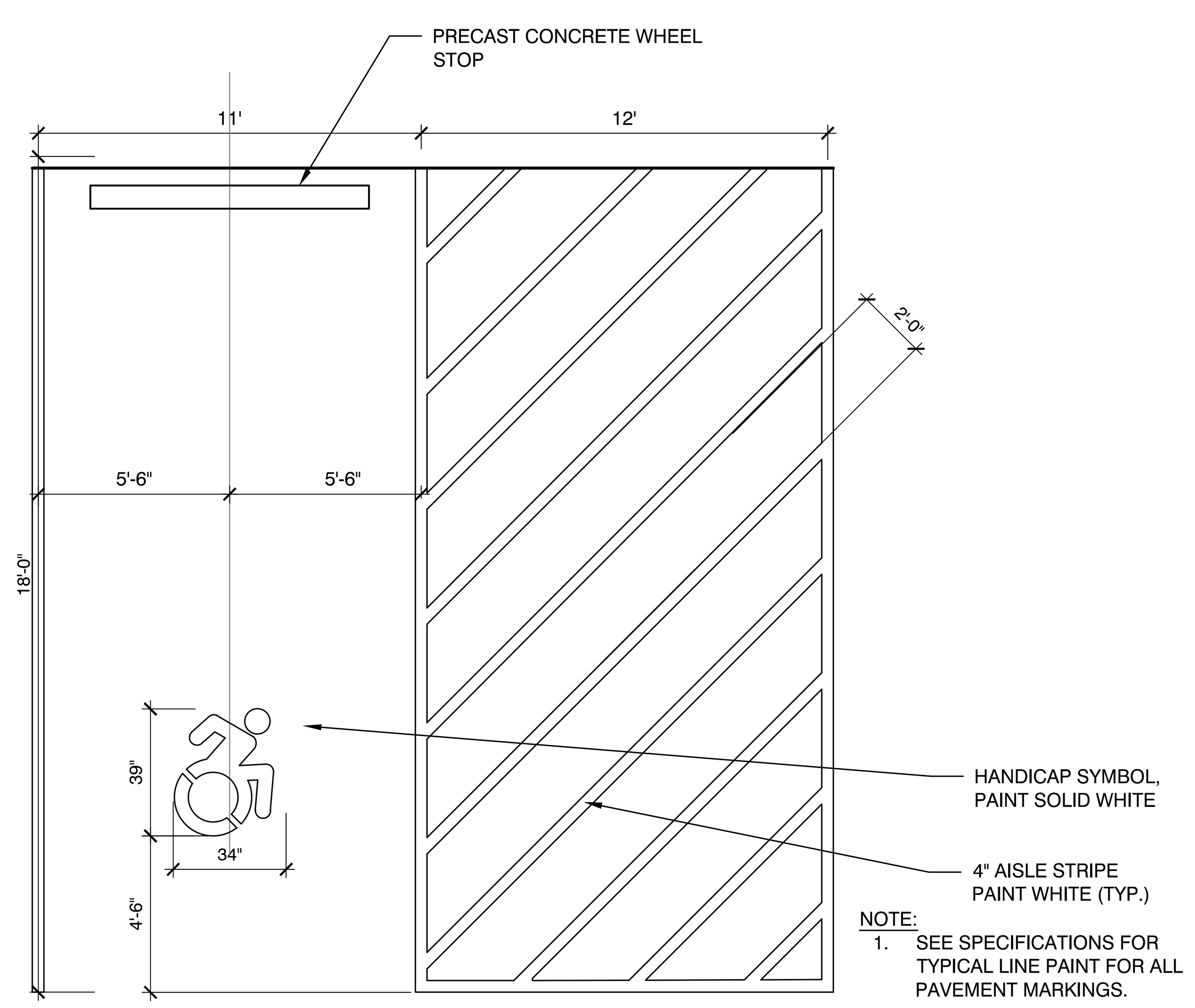


NOTES:
1. THE GEOSYNTHETIC FOR THE REINFORCED SOIL PAD SHALL EXTEND TO THE LIMITS SHOWN ON DWG L141.
2. GEOSYNTHETIC SHALL MEET THE REQUIREMENTS OF SPECIFICATION SECTION 31 00 00.
3. SUBGRADE SHALL BE OBSERVED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF GEOSYNTHETIC PER SPECIFICATION SECTION 31 00 00.
4. PROVIDE EXPANDED POLYSTYRENE FILL ("GEOFOAM") TO THE LINES AND GRADES SHOWN HEREIN AND AS SPECIFIED IN SECTION 31 23 23 - EXPANDED POLYSTYRENE FILL (GEOFOAM).
5. GEOFOAM SHALL MEET MINIMUM REQUIREMENT FOR EPS15 GEOFOAM BLOCKS.
6. EPS BLOCKS SHALL BE PLACED SO THAT ALL VERITCAL AND HORIZONTAL JOINTS BETWEEN BLOCKS ARE TIGHT. AVOID CONTINUOUS VERTICAL JOINTS BY LAYING BLOCKS IN A RUNNING BOND PATTERN AND ORIENTING THE LONG AXIS OF THE BLOCKS IN EACH SUCCESSIVE LAYER PERPENDICULAR TO THE LONG AXIS OF THE BLOCKS IN THE UNDERLYING LAYER.
7. TYPICAL FORMED HEIGHT OF GEOFOAM BLOCK IS 3-FEET. GEOFOAM BLOCK SHALL BE PLACED WITHIN ALL THE 3:1 GRASSED SLOPES ON THE OUTSIDE EDGES OF SKATEPARK TURNDOWN WALL. MAXIMUM SOIL COVER ABOVE GEOFOAM BLOCK SHALL BE 2-FEET. TO THE EXTENT POSSIBLE MAINTAIN FORMED HEIGHT OF GEOFOAM BLOCK TO LIMIT TRIMMING AND ALLOW FOR A MINIMUM OF 6-INCHES TOP SOIL.
8. SUBGRADE ELEVATION EARTHWORK (CUT/FILL) IS NOT INCLUDED IN THIS CONTRACT. THE AWARDED CONTRACTOR SHALL BE RESPONSIBLE TO VISIT THE SITE TO ENSURE THE SUBGRADE ELEVATION MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS HEREIN. THE AWARDED CONTRACTOR SHALL ALSO PROVIDE ALL FINAL COMPACTION AND FINE GRADING ADJUSTMENTS IF NECESSARY AND SUPPLEMENT THE CUT/FILL IF REQUIRED TO DO SO. TO BE ABLE TO ENSURE THE SUBGRADE MEETS REQUIREMENTS OF THE SPECIFICATIONS.

1 REINFORCED SOIL PAD AT SKATE PARK
SCALE: NTS

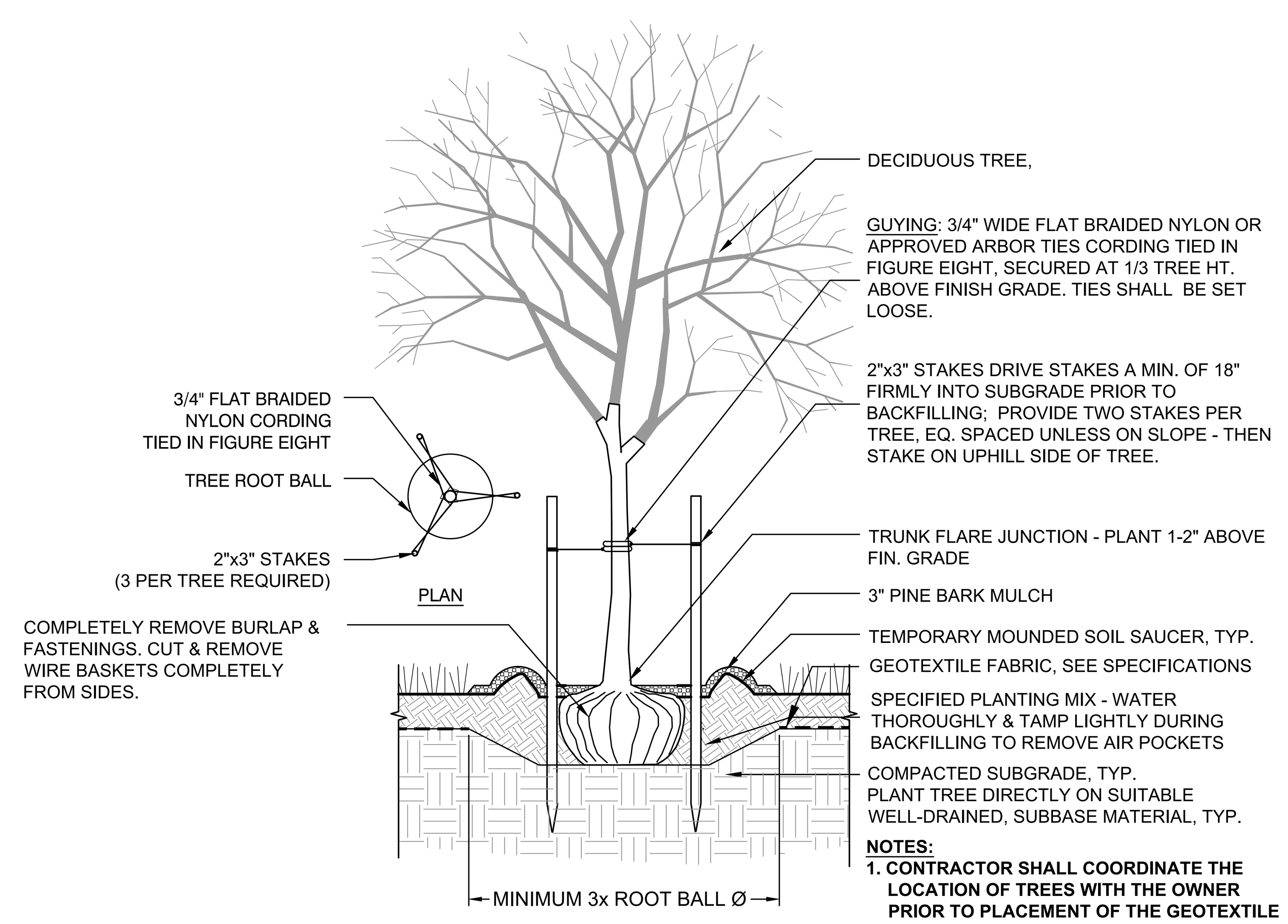


2 HANDICAP PARKING SIGN
SCALE: NTS



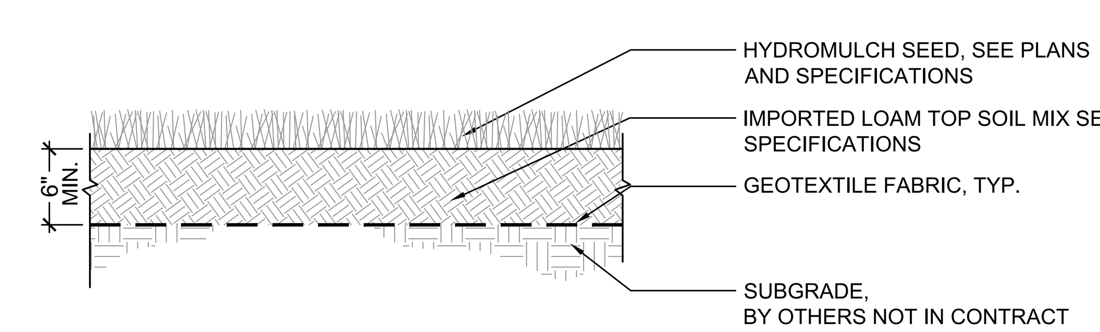
NOTE:
1. SEE SPECIFICATIONS FOR TYPICAL LINE PAINT FOR ALL PAVEMENT MARKINGS.

3 HANDICAP PARKING SPACE LAYOUT DETAIL
SCALE: NTS



NOTES:
1. CONTRACTOR SHALL COORDINATE THE LOCATION OF TREES WITH THE OWNER PRIOR TO PLACEMENT OF THE GEOTEXTILE FABRIC TO BE INSTALLED UNDER THE BASE CONTRACT. AND ENSURE ADEQUATE OPENING FOR THE INSTALLATION OF THE TREES.

4 TREE PLANTING - NOT IN CONTRACT, FOR REFERENCE ONLY
SCALE: NTS



5 LOAM AND SEED
SCALE: NTS

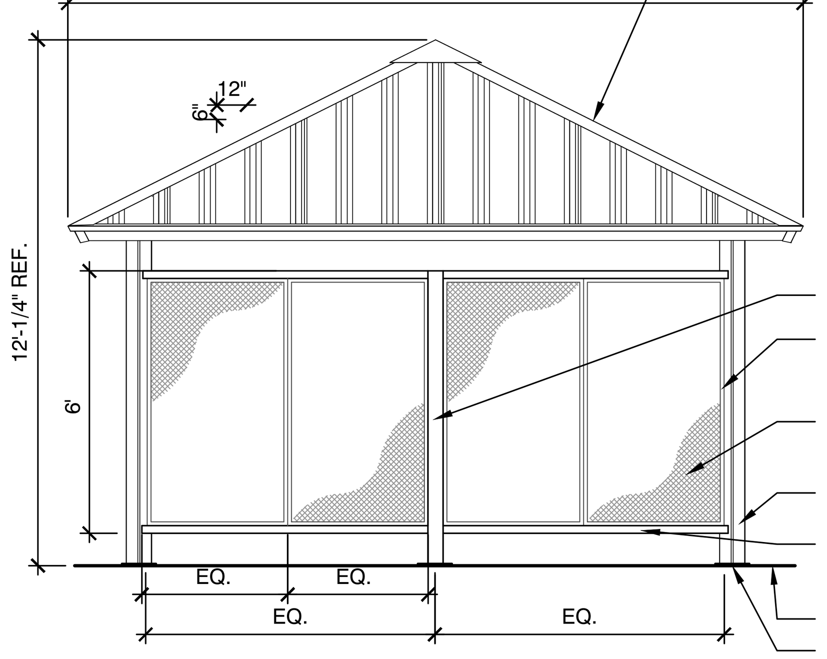
Brandon Kunkel 00214

Weston & Sampson design studio
85 Devonshire Street,
3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

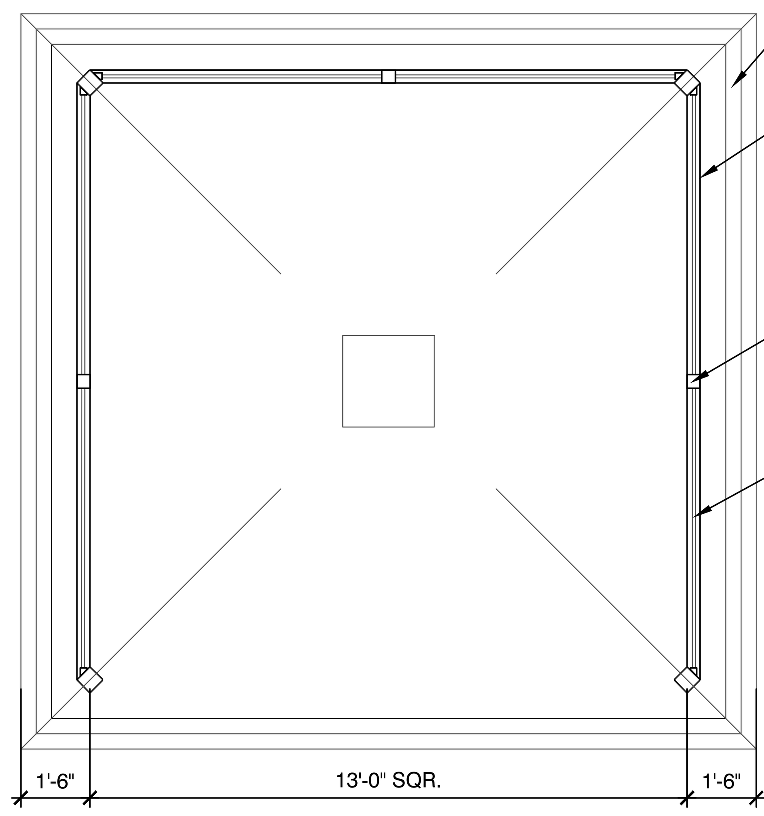
DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: 03/01/2023

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: CONSTRUCTION DETAILS
BID DOCUMENTS

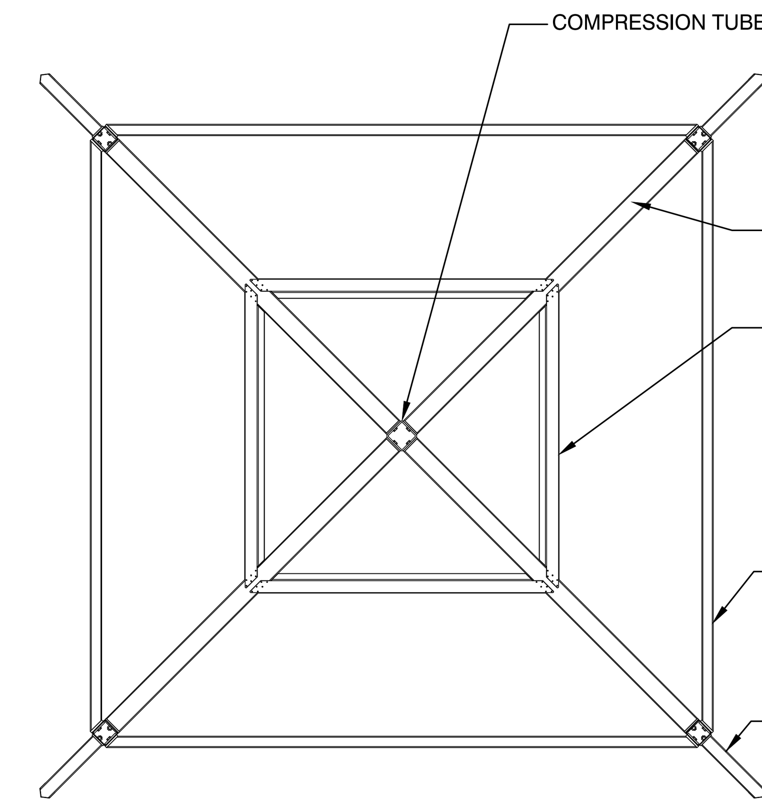
SHEET:: L503
SKATE PARK

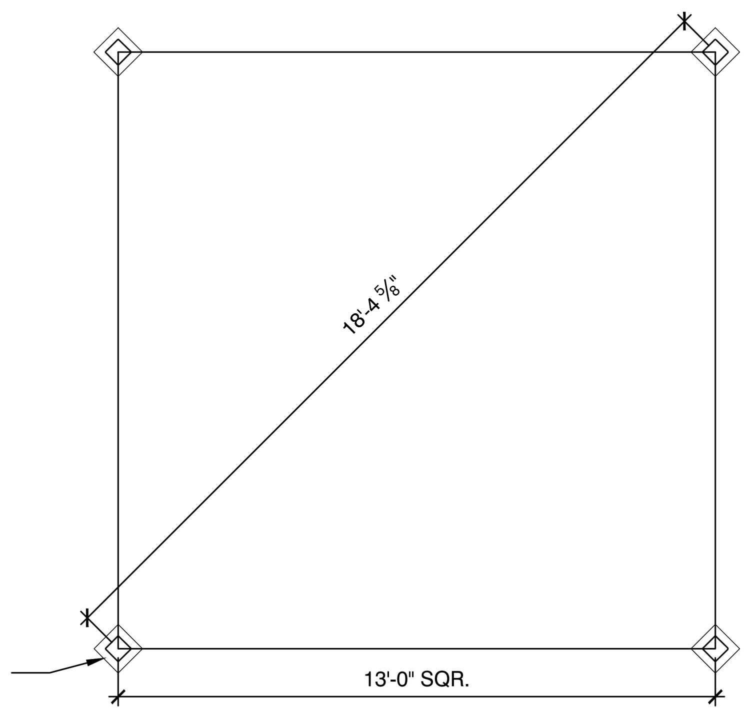


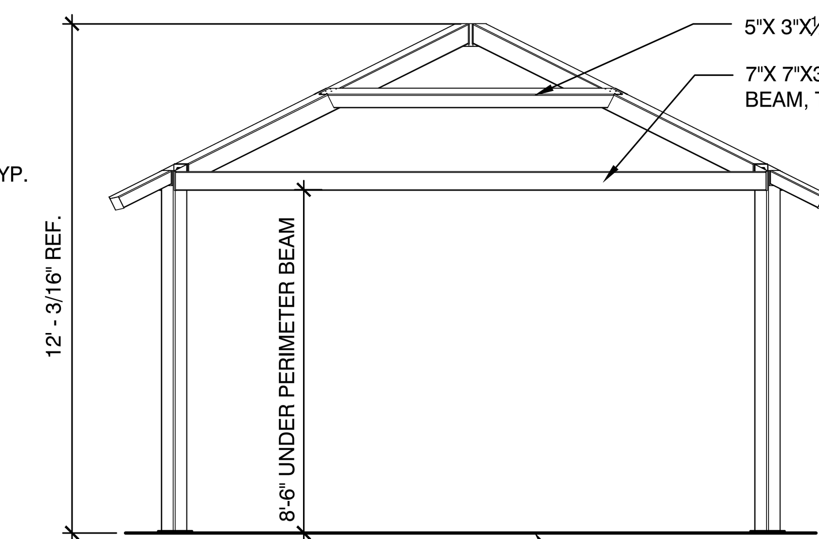
REAR & SIDE ELEVATION

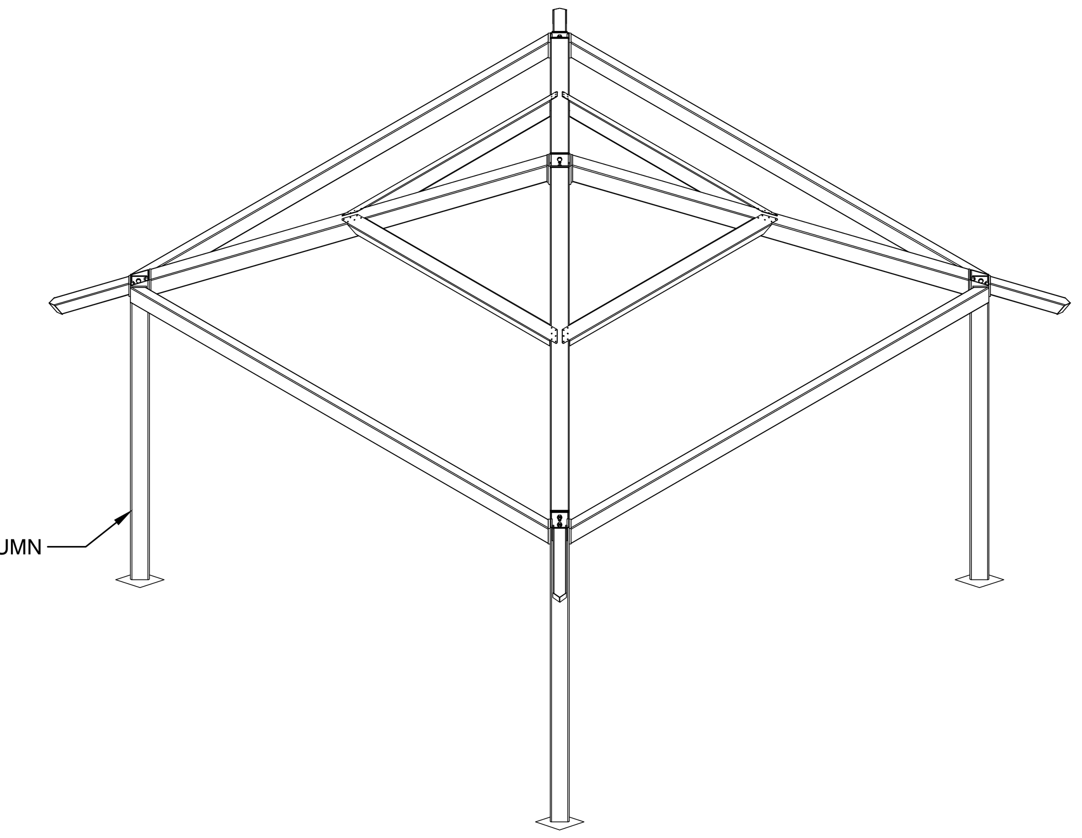


FRAMING PLAN







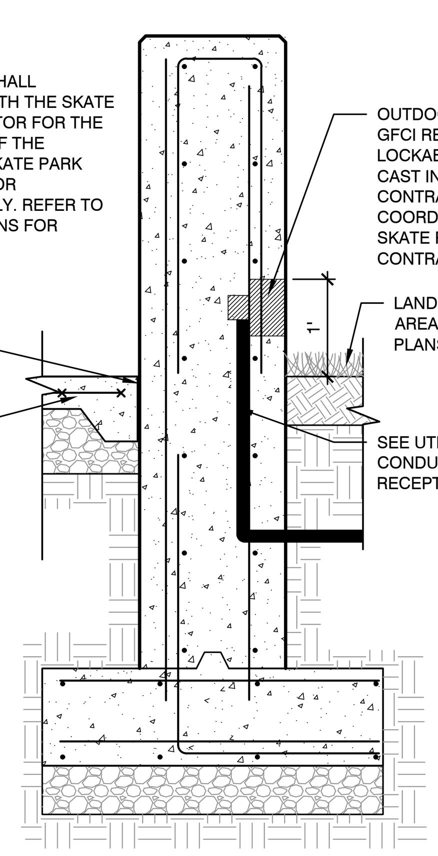


NOTES:

1. STRUCTURE SHALL BE DESIGNED FOR 25 LBS LIVE LOAD AND 90 MPH WIND LOAD CAPACITY. ALL STRUCTURAL MEMBERS SHALL BE ASTM-A-500 U.S. GRADE B STEEL. WELDED CONNECTION PLATES SHALL BE ASTM A-36 HOT ROLLED STEEL. WELDING SHALL ADHERE TO AWS AND ASTM STANDARDS.
2. ALL FRAMING CONNECTIONS SHALL BE MADE WITH A325 GRADE BOLTS AND SCREEN PANELS
3. ALL STEEL FRAME WORK AND SCREEN PANELS SHALL RECEIVE TGIC POLYESTER POWDER COAT FINISH. COLOR SHALL BE SELECTED BY OWNER'S REP.

1 SHADE SHELTER WITH SCREENED WALLS
SCALE: NTS

NOTE:
1. CONTRACTOR SHALL COORDINATE WITH THE SKATE PARK CONTRACTOR FOR THE INSTALLATION OF THE RECEPTACLE. SKATE PARK WALL SHOWN FOR REFERENCE ONLY. REFER TO SKATEPARK PLANS FOR EXACT DETAIL.



2 RECEPTACLE AT SKATEPARK WALL
SCALE: NTS

Brandon Kunkel 00214

Weston & Sampson design studio
85 Devonshire Street, 3rd Floor, Boston, MA 02109
617.412.4480 800.SAMPSON
www.westonandsampson.com

DRAWN BY:: KC
REVIEWED BY:: BK
APPROVED BY::
DATE:: 03/01/2023

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
CONSTRUCTION DETAILS
BID DOCUMENTS

SHEET::
L504
SKATE PARK

PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

100% SUBMITTAL

GENERAL NOTES

1. NOTIFY THE ACTION SPORTS DESIGNER IMMEDIATELY OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS AND/OR WRITTEN SPECIFICATIONS.

2. THE METRIC EQUIVALENT "[ ]" DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.

3. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL QUANTITIES.

4. PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND/OR NATIONAL BUILDING CODES AND REQUIREMENTS.

5. THE ACTIONS SPORTS DESIGNER SHALL HAVE NO CONTROL OR CHARGE OF, NOR BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, SAFETY PRECAUTIONS OR PROGRAMS IN CONNECTION WITH THE WORK, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY PERSONS PERFORMING ANY OF THE WORK OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.

6. PROVIDE SPECIAL INSPECTION AS REQUIRED BY BUILDING CODES FOR THE FOLLOWING ITEMS:
   -TAKING OF TEST SPECIMENS OF ALL CONCRETE AND SHOTCRETE.

7. THE CONTRACTOR SHALL WARRANTY ALL OF THEIR WORK DURING CONSTRUCTION AND A MINIMUM OF ONE YEAR AFTER THE PROJECT IS COMPLETED.

8. CONCRETE MIXES SHALL BE DESIGNED BY A TESTING LABORATORY APPROVED BY THE ACTION SPORTS DESIGNER PRIOR TO USE.

STEEL SHAPES CHART

ROUND		SQUARE		RECTANGULAR	
NOMINAL	HSS	NOMINAL	HSS	NOMINAL	HSS
2"	2.375 x 0.1875 6.03cm x 4.76mm	2"x2"	2.00 x 2.00 x 0.1875 5.08cm x 5.08cm x 4.76mm	2"x6"	2.00 x 6.00 x 0.1875 5.08cm x 15.24cm x 4.76mm
2-1/2"	2.875 x 0.1875 7.30cm x 4.76mm	2-1/2"x2-1/2"	2.50 x 2.50 x 0.1875 7.30cm x 7.30cm x 4.76mm	2"x8"	2.00 x 8.00 x 0.1875 5.08cm x 20.32cm x 4.76mm
3"	3.50 x 0.1875 8.89cm x 4.76mm	3"x3"	3.00 x 3.00 x 0.1875 7.62cm x 7.62cm x 4.76mm	2-1/2"x4"	2.50 x 4.00 x 0.1875 6.35cm x 10.16cm x 4.76mm
3-1/2"	4.00 x 0.1875 10.16cm x 4.76mm	3-1/2"x3-1/2"	3.50 x 3.50 x 0.1875 8.89cm x 8.89cm x 4.76mm	2-1/2"x5"	2.50 x 5.00 x 0.1875 6.35cm x 12.70cm x 4.76mm
4"	4.50 x 0.1875 11.43cm x 4.76mm	4"x4"	4.00 x 4.00 x 0.1875 10.16cm x 10.16cm x 4.76mm	3"x5"	3.00 x 5.00 x 0.1875 7.62cm x 12.70cm x 4.76mm

NOTES:
1. ALL HOLLOW STRUCTURAL SECTIONS (HSS) TO BE ASTM A-500 GRADE B STEEL.

REBAR DEVELOPMENT LENGTHS

NORMAL WEIGHT CONCRETE							
REBAR SIZE		3000 P.S.I.			4000 P.S.I.		
ENGLISH	METRIC	TOP BARS Id	BOT. BARS Id	Idh	TOP BARS Id	BOT. BARS Id	Idh
#3	#10	21" [53.34cm]	16" [40.64cm]	8" [20.32cm]	18" [45.72cm]	14" [35.56cm]	7" [17.78cm]
#4	#13	28" [71.12cm]	22" [55.88cm]	11" [27.94cm]	25" [63.50cm]	19" [48.26cm]	9" [22.86cm]
#5	#16	36" [91.44cm]	27" [68.58cm]	14" [35.56cm]	31" [78.74cm]	24" [60.96cm]	12" [30.48cm]
#6	#19	43" [109.22cm]	33" [83.82cm]	16" [40.64cm]	37" [93.98cm]	28" [71.12cm]	14" [35.56cm]
#7	#22	62" [157.48cm]	48" [121.92cm]	19" [48.26cm]	54" [137.16cm]	42" [106.68cm]	17" [43.18cm]
#8	#25	71" [180.34cm]	55" [139.70cm]	22" [55.88cm]	62" [157.48cm]	47" [119.38cm]	19" [48.26cm]
#9	#29	80" [203.20cm]	62" [157.48cm]	25" [63.50cm]	69" [175.26cm]	53" [134.62cm]	21" [53.34cm]
#10	#32	89" [226.06cm]	68" [172.72cm]	27" [68.58cm]	77" [195.58cm]	59" [149.86cm]	24" [60.96cm]
#11	#36	98" [248.92cm]	75" [190.50cm]	30" [76.20cm]	85" [215.90cm]	65" [165.10cm]	26" [66.04cm]

NOTES:
1. THESE LENGTHS APPLY TYPICALLY UNLESS OTHERWISE NOTED.
2. CLEAR SPACING BETWEEN PARALLEL BARS MUST BE AT LEAST ONE BAR DIAMETER BUT NOT LESS THAN 1" [2.54cm].
3. TOP BARS: HORIZONTAL BARS SO PLACED THAT MORE THAN 12" [30.48cm] OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW.
4. LIGHTWEIGHT CONCRETE: MULTIPLY VALUES IN TABLE BY 1.3.
5. CLASS B SPLICE: LD X 1.3 LAP LENGTH. STAGGER SPLICES MIN. OF 24" [60.96cm].

CONSTRUCTION DISCLAIMER

1. ALL MEASUREMENTS, DISTANCES AND RADII TO BE VERIFIED IN THE FIELD.

STRUCTURAL NOTES

REINFORCING STEEL:

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (Fy = 60 KSI) DEFORMED BARS FOR ALL BARS #3 AND LARGER. ALL REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC PER ASTM A185, WIRE PER ASTM A82. LATEST ACI CODE AND DETAILING MANUAL APPLY.

2. ACCURATELY PLACE OR SUPPORT ALL REINFORCING, INCLUDING WELDED WIRE FABRIC, WITH GALVANIZED METAL CHAIRS, SPACERS OR HANGERS FOR THE FOLLOWING CLEAR CONCRETE COVERAGES:
   CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ------- 3"
   EXPOSED TO EARTH OR WEATHER
   #6 OR LARGER ---------------------------------- 2"
   #5 AND SMALLER --------------------------------- 1 1/2"
   COLUMNS (TO TIES) ---------------------------------- 1 1/2"
   BEAMS (TO STIRRUPS) -------------------------------- 1 1/2"
   FLAT SLAB -- 3/4"
   ALL OTHER PER LATEST EDITION OF ACI 318.

3. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKS UNLESS NOTED OTHERWISE. SKEW HOOKS AS REQUIRED TO MAINTAIN CONCRETE COVER. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318.

STRUCTURAL STEEL:

1. ALL STEEL CONSTRUCTION SHALL CONFORM WITH THE LATEST AISC HANDBOOK. ALL RECTANGULAR TS/HSS SHALL BE ASTM A500, GRADE B (Fy = 46 KSI). ALL PIPE STEEL SHALL BE ASTM A53, GRADE B (Fy = 35 KSI). ALL OTHER STRUCTURAL SHAPES AND PLATES SHALL BE ASTM A36 (Fy = 36 KSI). PAINT ALL STEEL SURFACES WITH FABRICATOR'S STANDARD RUST-INHIBITING PRIMER EXCEPT AT SURFACES ENCASED IN CONCRETE.

2. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS, (EXCEPT STEEL JOISTS AND JOIST GIRDERS SHALL COMPLY WITH SJI STANDARDS). ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS; THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION.

3. NON-SHRINK GROUT SHALL BE 5,000 PSI, FIVE STAR, SIKA 212 OR EQUIVALENT. INSTALL NON-SHRINK GROUT UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED.

POST-INSTALLED ANCHORS:

1. EPOXY BOLTS OR DOWELS SHALL BE A THREADED ROD OR REINFORCING STEEL INSTALLED WITH THE ONE OF THE FOLLOWING APPROVED PRODUCTS SATISFYING CRACKED CONCRETE REQUIREMENTS IN ACCORDANCE WITH ACI APPENDIX D.

   SIMPSON "SET-XP" ICC REPORT ESR-2508
   HILTI "RE-500 SD" ICC REPORT ESR-2322
   POWERS "PE1000+" ICC REPORT ESR-2583

2. THE CONTRACTOR MAY NOT USE SUBSTITUTES FOR EPOXY OR EXPANSION ANCHORS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

3. FOR MINIMUM EMBEDMENT LENGTH SEE DETAILS. INSTALL ALL BOLTS AS OUTLINED IN MANUFACTURER'S SPECIFICATIONS, UTILIZING PROPER SIZE AND TYPE OF DRILL, CLEANING HOLE, DRIVING AND TIGHTENING BOLT.

CONSTRUCTION DETAIL NOTES

1. "BASE COURSE" SHALL CONSIST OF A 4" [10.16cm] LAYER OF COMPACTED 1" [2.54cm] CRUSHED ROCK; "COMPACTED SUBGRADE" SHALL CONSIST OF THE UPPER MOST 1'-0" [30.48cm] OF NATIVE SOIL AND/OR ENGINEERED FILL COMPACTED TO 95% STANDARD PROCTOR. IF THESE GUIDELINES CONFLICT WITH THE GEO-TECHNICAL REPORT, THE CONTRACTOR TO FOLLOW THE MORE STRINGENT OF THE TWO GUIDELINES

2. GRIND SMOOTH ALL EXPOSED COPING AND RAIL WELDS. APPLY END CAPS TO ALL EXPOSED COPING AND RAIL ENDS, OPEN STEEL ENDS OR CONCRETE FILLED CAPS ARE UNACCEPTABLE.

3. HOOK ANCHORS OR HEX BOLTS MAY BE USED IN-LIEU OF NELSON STUDS TO SECURE COPING AND PROTECTIVE PLATES IN PLACE PROVIDED THEY ARE THE SAME NOMINAL SIZE.

4. ALL RAIL POSTS SHALL BE PLACED 3" [7.62cm] MINIMUM CLEAR OF ALL CONCRETE AND/OR SHOTCRETE FACES.

5. SOME REINFORCEMENT MEMBERS MAY BE SHOWN OUT OF SCALE AND/OR POSITION FOR CLARITY ONLY. AT A MINIMUM ALL REINFORCEMENT SHALL BE PLACED CLEAR OF ALL CONCRETE AND/OR SHOTCRETE FACES AS NOTED BELOW:
   - WELDED WIRE FABRIC: 2" [5.08cm]
   - SPEED DOWELS: 3" [7.62cm]
   - REBAR IN FLATWORK, BANKS, BOWLS, WATERFALLS AND TURNDOWN WALLS: 2" [5.08cm] OR 3" [7.62cm] IF PERMANENTLY EXPOSED TO EARTH
   - REBAR IN FORMED LEDGES, EXTENSIONS AND RETAINING WALLS: 3" [7.62cm]

6. ALL SHOTCRETE SHALL BE CUT, SCREEDED AND INSPECTED WITH TEMPLATES CUT TO THE SPECIFIED HEIGHT, WIDTH, RADIUS AND/OR ANGLE. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DIMENSIONS, MATERIAL AND LOCATION OF USED FOR ALL TEMPLATES FOR APPROVAL BY THE OWNER'S REPRESENTATIVE AND THE ACTION SPORTS DESIGNER.

7. ALL CONCRETE AND SHOTCRETE SHALL HAVE A SMOOTH TROWEL FINISH UNLESS OTHERWISE NOTED.

8. ALL EXPOSED OUTSIDE CONCRETE CORNERS SHALL RECEIVE A 1/2" [12.70mm] CHAMFER UNLESS OTHERWISE NOTED.

9. THE FENCE SHALL MATCH THE PROFILE AND CONTOUR OF THE PARK PERIMETER. RAILS SHALL BE ROLLED TO MATCH RADII. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL FENCE PROFILES.

10. CAP ALL EXPOSED ENDS, FILL ALL VOIDS AND GRIND ALL WELDS SMOOTH.

11. ALL FENCE METAL WORK SHALL BE WARRANTED BY THE CONTRACTOR AGAINST DEFECTS, RUST, PAINT CHIPPING, ETC. FOR A PERIOD OF FIVE YEARS.

STRUCTURAL NOTES

1. DESIGN CRITERIA
   DESIGN CRITERIA:

   2015 EDITION OF THE INTERNATIONAL BUILDING CODE, WITH LOCAL AMENDMENTS.

   LOADS:

   WIND DESIGN: BASIC WIND SPEED = 90 MPH (3 SECOND GUST). Iw = 1.0. EXPOSURE C.

   SEISMIC DESIGN: Ie = 1.0. Ss = 0.172 S1 = 0.051 SEISMIC SITE CLASS = D.
   Sds = 0.183 SD1 = 0.081 SEISMIC DESIGN CATEGORY B.

GENERAL:

1. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

2. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. FOR BIDDING PURPOSES, WHERE ANY MEMBER IS SHOWN BUT NOT CALLED OUT, THE LARGEST SIMILAR MEMBER SHALL BE UTILIZED.

3. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

4. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT OCCURS.

CONCRETE AND SHOTCRETE:

1. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301 AND ACI 318. CEMENT PER ASTM C150, TYPE II. AGGREGATE PER ASTM C33. LIGHTWEIGHT AGGREGATE PER ASTM C330. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C94 AND SHALL BE DESIGNED FOR A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:

   FLAT SLABS, WALLS ------------------------------------4,000 PSI
   SLABS ON GRADE ---------------------------------------4,000 PSI
   FOUNDATIONS --4,000 PSI

2. ALL SHOTCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 506, LATEST EDITION, "SPECIFICATION FOR MATERIALS, PROPORTIONING AND APPLICATION OF SHOTCRETE" AND ACI 506.2, LATEST EDITION, "RECOMMENDED PRACTICES FOR SHOTCRETE." AGGREGATE PER ASTM C33.

3. SHOTCRETE MIX DESIGNS SHALL BE DESIGNED FOR A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:

   FLAT SLABS, WALLS ------------------------------------4,000 PSI
   SLABS ON GRADE ---------------------------------------4,000 PSI

4. SHOTCRETE SURFACE PREPARATION: EXPOSED EXISTING CONCRETE SHALL BE SANDBLASTED CLEAN. SURFACES SHALL BE FOLLOWED BY WETTING AND DAMP DRYING JUST PRIOR TO SHOTCRETE APPLICATION.

5. ANY REBOUND OR ACCUMULATED LOOSE AGGREGATE SHALL BE REMOVED FROM THE SURFACES TO BE COVERED PRIOR TO PLACING THE INITIAL OR ANY SUCCEEDING LAYERS OF SHOTCRETE, REBOUND SHALL NOT BE REUSED AS AGGREGATE.

6. JOINTS IN WALL POURS ARE PERMISSIBLE. AT JOINTS, SHOTCRETE SHALL BE SLOPED TO A THIN EDGE. BEFORE PLACING ADDITIONAL MATERIAL, ALL SURFACES SHALL BE THOROUGHLY CLEANED AND WETTED AND ALL REINFORCING STEEL SHALL BE BRUSHED FREE OF LATENT SHOTCRETE MATERIAL.

7. ANY IN-PLACE SHOTCRETE MATERIAL WHICH EXHIBITS SAGS OR SLOUGHS, SEGREGATION, HONEY COMBING, SAND POCKETS OF OTHER OBVIOUS DEFECTS SHALL BE REMOVED AND REPLACED.

8. TESTING AND INSPECTION OF IN-PLACE SHOTCRETE SHALL BE IN ACCORDANCE WITH 2015 IBC.

9. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING AND SHALL NOT EXCEED A TEMPERATURE OF 90 DEGREES F UNLESS PRE-APPROVED BY THE ACTION SPORTS DESIGNER.

10. DURING THE CURING PERIOD, CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE ABOVE 40 DEGREES F 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 AND SHALL CONSIST OF APPLICATION OF CURING COMPOUND PER ASTM C309. APPLY AT A RATE SUFFICIENT TO RETAIN MOISTURE, BUT NOT LESS THAN 1 GALLON PER 200 SQUARE FEET. COVER CONCRETE WITH POLYETHYLENE PLASTIC TO MAINTAIN TEMPERATURE IF NECESSARY. LAP SEAMS IN THE PLASTIC 6" AND TAPE, WEIGHT DOWN THE PLASTIC AS NEEDED.

11. THE CONTRACTOR SHALL FIX ALL CRACKS AND DISPLACEMENTS LARGER THAN 1/8".

12. CONDUITS, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 1906.

13. TESTING OF COMPRESSIVE STRENGTH AND SLUMP PER ASTM C31, C39 AND C143. PROVIDE A MINIMUM OF 3 CYLINDERS FOR EACH DAY'S PLACEMENT U.N.O. A QUALIFIED TESTING LABORATORY SHALL TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS.

CONTACTS

CLIENT	CITY OF PORTSMOUTH PETER RICE, DIRECTOR OF PUBLIC WORKS 680 PEVERLY HILL RD PORTSMOUTH, NH 03801 [t] 603.4276.1530 [f] 603.427.1539
SKATEPARK DESIGNER	PILLAR DESIGN STUDIOS BRAD SIEDLECKI 1960 W. HAWK CT. CHANDLER, ARIZONA 85286 [t] 888.880.5112 [f] 888.841.2569
CIVIL	WESTON & SAMPSON BRANDON KUNKEL, RLA 85 DEVONSHIRE ST, 3RD FLOOR BOSTON, MA 02109 [t] 617.412.4480 X 7705
SPECIALTY CONTRACTOR	ARTISAN SKATEPARKS ANDY DUCK 4600 TAMARACK DRIVE KITTY HAWK, NORTH CAROLINA 27949 [t] 252.202.1333

SHEET INDEX

STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER
Barrett Crook

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: COVER SHEET

SHEET:: AS-01
01 OF 16
SKATE PARK

NOTES

1. ALL ELEVATIONS ARE BASED ON AN ASSUMED ELEVATION OF 0'-0", AND ARE USED TO DEMONSTRATE OVERALL TERRAIN ELEVATIONS ONLY. REFER TO SURFACE GRADING & DRAINAGE PLAN FOR ACTUAL ELEVATIONS.

LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
?'-?"R	RADIUS OF THE TRANSITION	AS-14 / 1
→	BANK	AS-14 / 2
	FINISH GRADE CONTOUR	AS-06
	BY OTHERS - SEE BID DOCUENTS	L000-L505

STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

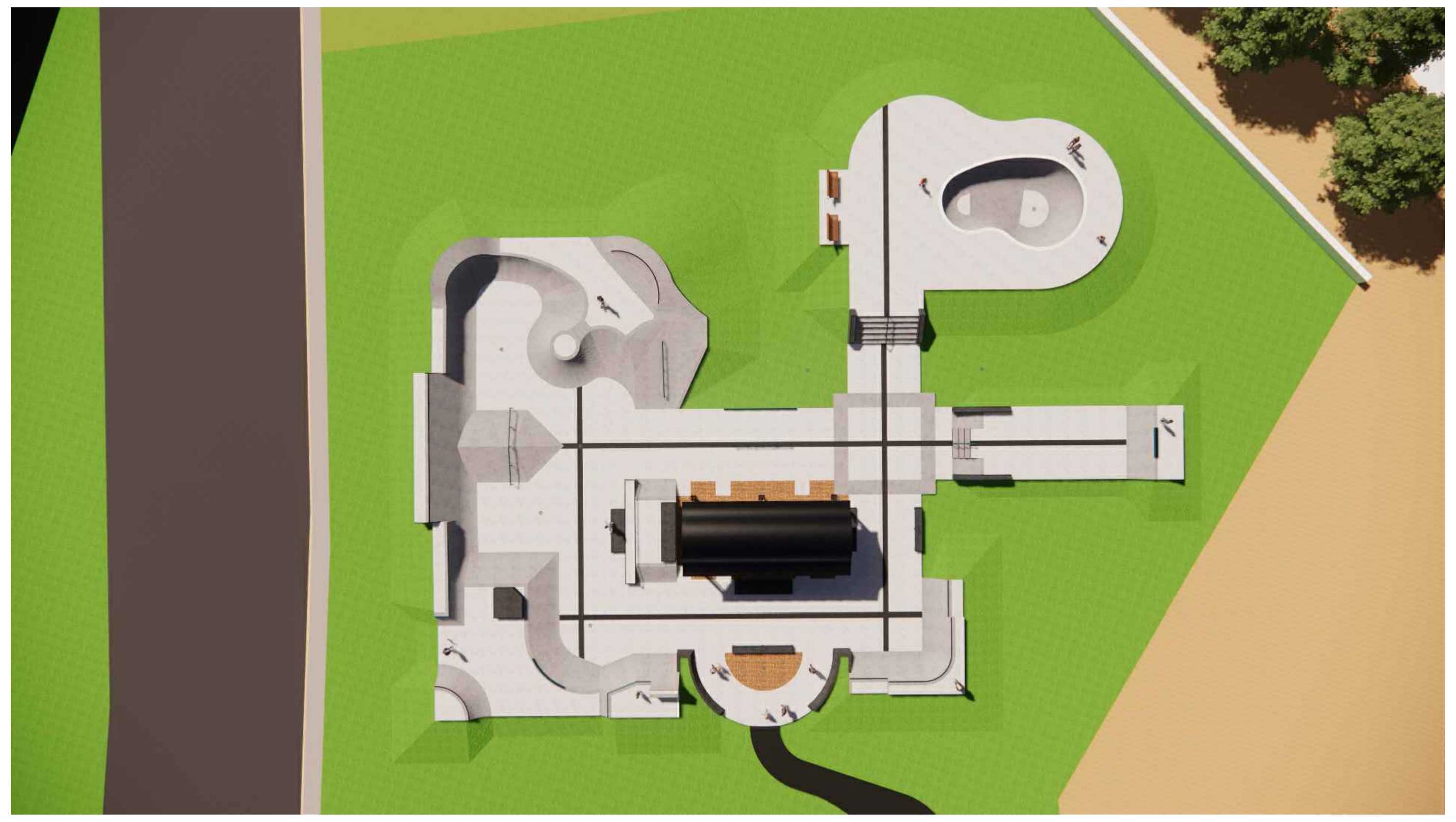
DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

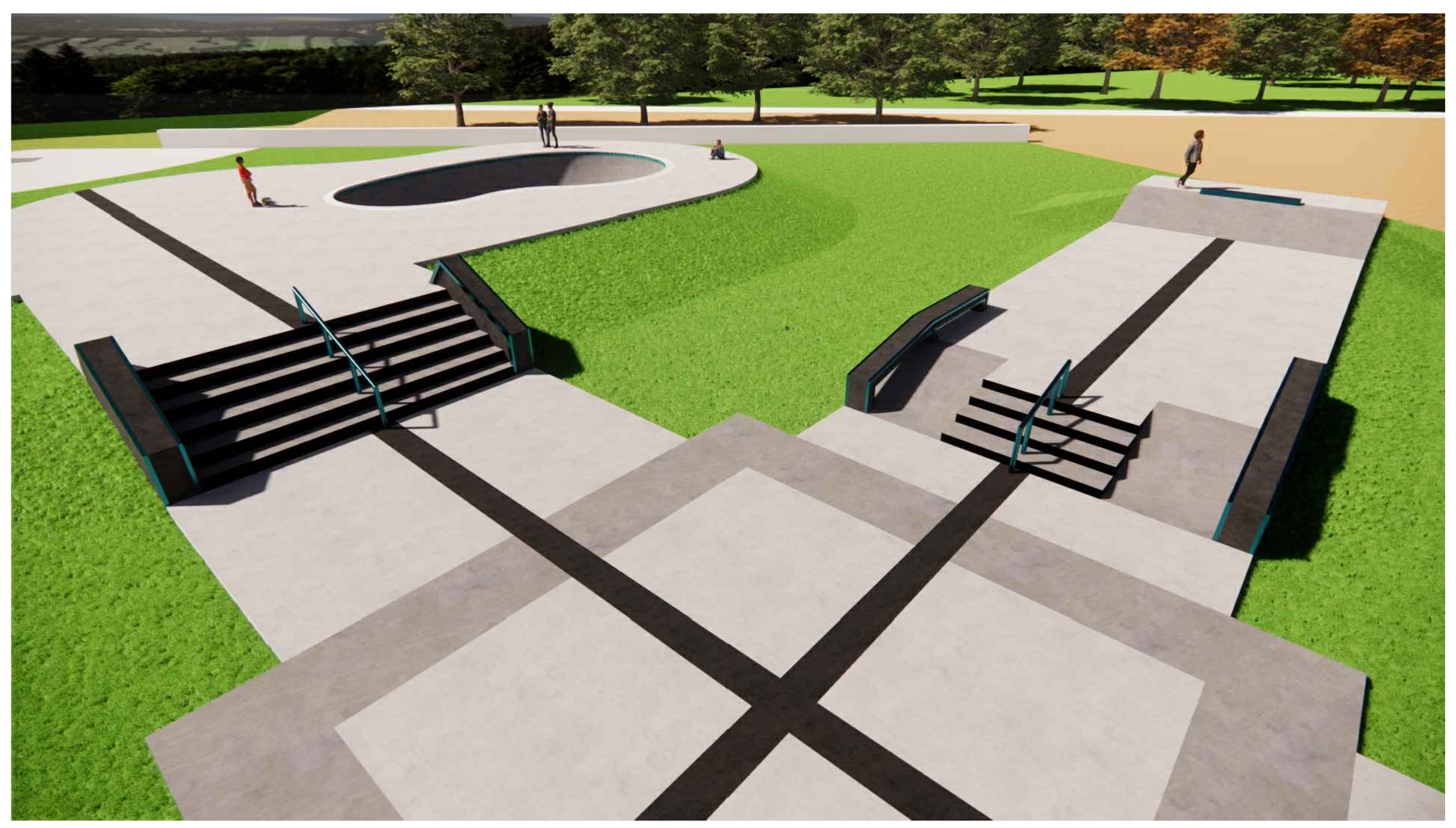
PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
MASTER PLAN

SHEET::
AS-02
02 OF 16

SKATE PARK





3D GRAPHICS ARE FOR REFERENCE ONLY.

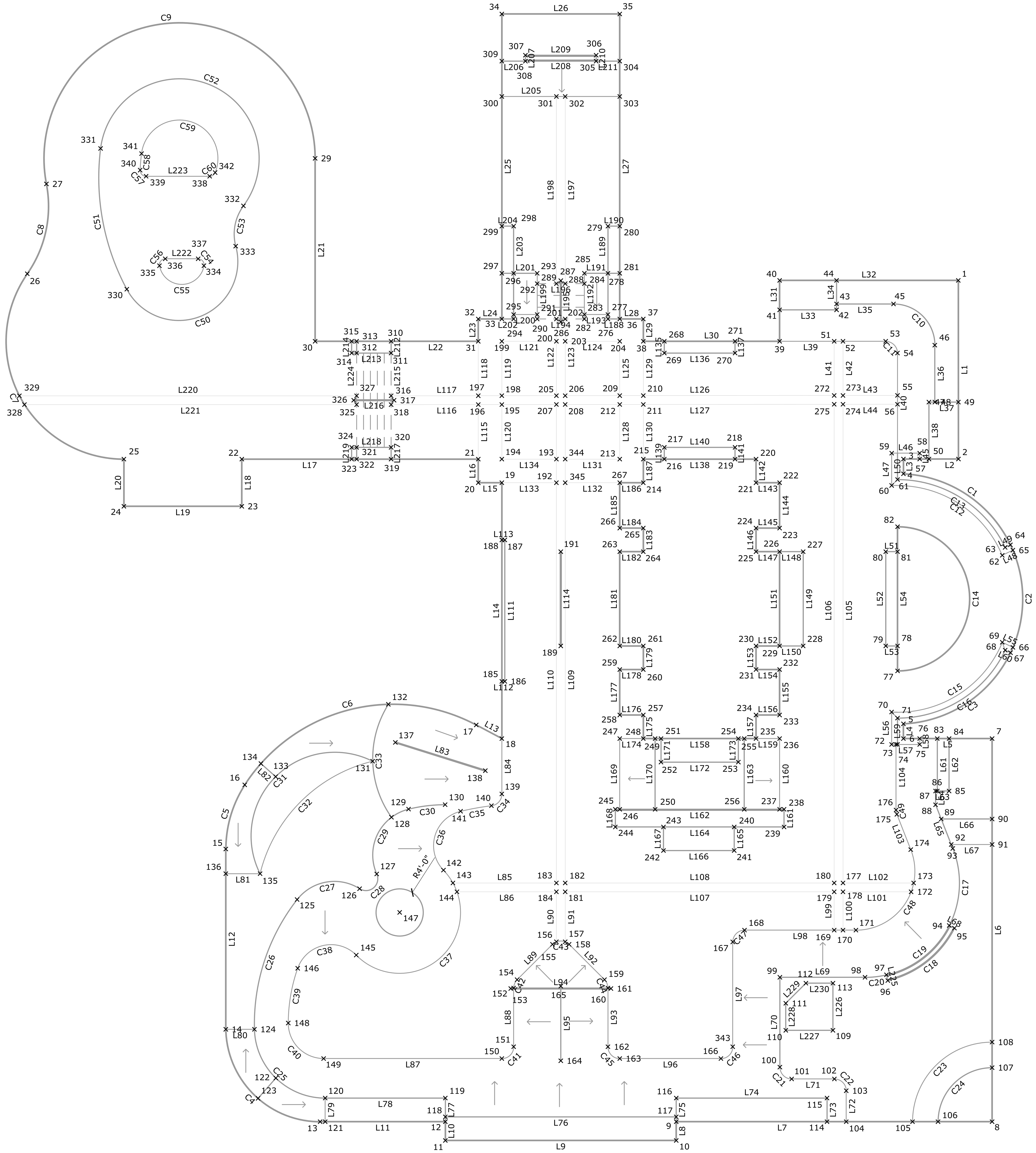
STATE OF NEW HAMPSHIRE
BARRETT
BROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
3D IMAGES

SHEET::
AS-03
SKATE PARK



LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
	COLD JOINTS FOR COLORED CONCRETE	AS-12

NOTES

1. COORDINATE VALUES SHOWN ARE INTENDED FOR HORIZONTAL POSITIONING AND DIMENSION CLARIFICATION ONLY. ALL POINTS SET IN THE FIELD FROM THESE VALUES SHALL FIRST BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THE LOCATION IS CONSISTENT WITH THE DIMENSIONS AND GRAPHIC LOCATIONS SHOWN WITHIN THE APPROVED CONSTRUCTION DOCUMENTS. IN THE CASE OF A DISCREPANCY WITH ANY COORDINATE VALUE SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ACTION SPORTS DESIGNER PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY THAT MAY BE AFFECTED.

2. UPON REQUEST PILLAR DESIGN STUDIOS WILL PROVIDE THE CONTRACTOR/ SURVEYOR WITH A DIGITAL FILE CONTAINING THE POINT INFORMATION FOR THIS PROJECT.

3. ALL COORDINATES SHOWN AT THE BOTTOM OF ALL BANKS/ TRANSITIONS ARE LOCATED AT THE TOP AND BOTTOM.

4. BECAUSE OF THE SCALE OF THIS DRAWING AND PROXIMITY OF FEATURES TO EACH OTHER, THE LOCATION OF SOME OF THE POINTS MAY BE OBSCURED. REFER TO THE POINT TABLE(S) FOR THE ACTUAL LOCATIONS FOR ALL POINTS.

NORTH

0'-0" 10'-0" 20'-0" 30'-0"

SCALE: 1" = 10'-0"

STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
HORIZONTAL CONTROL PLAN

SHEET::

AS-04
SKATE PARK

POINT TABLE

POINT	NORTHING	EASTING
1	833.8064	8743.4605
2	805.1177	8753.2236
3	802.1119	8744.3911
4	799.7381	8745.1965
5	759.5705	8758.8257
6	757.1980	8759.6307
7	762.0343	8773.8768
8	700.4844	8794.7719
9	683.2594	8744.0329
10	680.2387	8745.0583
11	667.6482	8707.9709
12	670.6689	8706.9455
13	663.8376	8686.8228
14	673.5340	8666.6378
15	702.5061	8656.7987
16	713.8372	8656.3471
17	736.0927	8690.2643
18	735.2994	8695.1248
19	776.4056	8681.1700
20	775.1197	8677.3823
21	778.9074	8676.0965
22	766.0100	8638.1050
23	758.4346	8640.6767
24	752.0053	8621.7383
25	759.5807	8619.1666
26	784.1024	8593.5324
27	799.5737	8591.7122
28	NOT USED	NOT USED
29	818.3386	8633.4838
30	788.9493	8643.4609
31	797.8458	8669.6672
32	801.4292	8668.4507
33	802.7151	8672.2384
34	851.7183	8655.6026
35	858.1476	8674.5411
36	809.1444	8691.1768
37	810.4302	8694.9645
38	806.8468	8696.1810
39	814.2796	8718.0754
40	824.0613	8714.7546
41	819.3267	8716.3620
42	822.4325	8725.5107
43	823.3794	8725.1892
44	827.1671	8723.9034
45	826.4852	8734.3379
46	822.1120	8743.2150
47	812.6483	8745.3792
48	812.9705	8746.3259
49	814.2592	8750.1126
50	803.5069	8748.4902
51	817.2542	8726.8376
52	817.7364	8728.2580
53	820.0640	8735.1143
54	818.8145	8737.6506
55	812.0102	8739.9662
56	810.5902	8740.4495
57	802.9993	8746.9986
58	803.9462	8746.6772
59	802.4145	8742.1764
60	797.2239	8743.9376
61	798.4922	8744.5633
62	792.0328	8765.5066
63	793.4651	8765.5423
64	794.1636	8766.2579
65	793.4316	8766.9396
66	777.8294	8772.2428
67	776.8336	8772.1485
68	776.9531	8771.1540
69	778.0653	8770.2527
70	760.8239	8756.2884
71	760.1738	8757.5650
72	755.6081	8758.0581
73	755.8493	8758.7685
74	755.9296	8759.0051
75	757.1389	8762.5674
76	758.0859	8762.2459
77	767.7496	8754.9944
78	771.7578	8753.6358
79	771.1148	8751.7419
80	786.2656	8746.5985
81	786.9085	8748.4923
82	790.9164	8747.1338
83	759.0466	8765.0754
84	759.6895	8766.9693
85	751.2661	8769.8289
86	750.6232	8767.9350
87	750.5299	8767.6604
88	748.3231	8768.4096
89	746.3394	8770.0872
90	749.1148	8778.2627
91	745.0147	8779.6547
92	742.7867	8773.0918
93	742.2370	8773.5568
94	729.6643	8777.1823
95	729.5242	8778.1724
96	717.4709	8770.3209
97	718.3200	8769.7926
98	716.7542	8766.4834
99	712.1113	8752.8069
100	697.6708	8757.7092
101	696.4198	8760.2460
102	698.7504	8767.1111
103	697.4995	8769.6479
104	692.5282	8771.3356
105	696.1447	8781.9885
106	697.5366	8786.0886
107	709.1677	8791.8241
108	713.2679	8790.4322
109	706.4822	8764.2223
110	703.9105	8756.6470
111	708.2529	8755.1728
112	712.5834	8757.3083
113	714.0576	8761.6506
114	691.4834	8768.2581
115	695.2711	8766.9723
116	687.0471	8742.7470
117	684.0264	8743.7725
118	671.4359	8706.6851
119	674.4566	8705.6596
120	667.9005	8686.3478
121	664.1128	8687.6337
122	668.4291	8677.3313
123	664.1936	8675.5872
124	675.0955	8671.2374
125	698.2782	8671.0150
126	703.4167	8680.4616
127	706.7155	8682.4053
128	716.6397	8681.6743
129	718.8796	8683.9806
130	721.5887	8689.6196
131	724.6171	8675.6108
132	734.6199	8675.0210
133	716.8405	8660.8706
134	718.1399	8657.7889
135	700.4088	8663.6536
136	698.5389	8658.1455
137	728.8771	8678.2279
138	729.2431	8694.2237
139	726.3989	8698.1464
140	723.9507	8697.1133
141	721.3695	8692.4541
142	710.9765	8692.9241
143	709.4325	8695.1437
144	708.2302	8696.2683
145	692.5666	8683.5486
146	687.2608	8674.8554
147	701.7972	8688.1858
148	677.9491	8676.3276
149	674.1714	8683.9463
150	683.8910	8712.5771
151	686.4278	8713.8280
152	695.6209	8710.1791
153	695.8621	8710.6252
154	697.3896	8710.7253
155	704.9999	8714.4780
156	705.6299	8714.9656
157	706.1121	8716.3860
158	705.9091	8717.1563
159	702.1564	8724.7666
160	701.0055	8725.7760
161	701.0858	8726.2767
162	691.5712	8728.9787
163	690.3203	8731.5155
164	686.7458	8722.1684
165	698.7448	8718.0950
166	695.8386	8747.7706
167	715.2211	8743.3027
168	717.7579	8744.5536
169	722.6470	8758.9551
170	723.1292	8760.3755
171	723.8315	8762.4443
172	732.9978	8769.2251
173	734.5566	8769.1505
174	739.7582	8766.8652
175	744.6720	8762.7095
176	745.3205	8762.3428
177	730.7045	8757.8038
178	729.2841	8758.2860
179	728.8020	8756.8656
180	730.2223	8756.3834
181	714.1352	8713.6623
182	715.5556	8713.1801
183	715.0734	8711.7597
184	713.6530	8712.2419
185	744.4894	8692.0050
186	744.6502	8692.4784
187	767.3763	8684.7633
188	767.2156	8684.2898
189	753.3941	8699.5425
190	NOT USED	NOT USED
191	768.5448	8694.3991
192	779.3791	8689.9290
193	783.1668	8688.6432
194	780.1932	8679.8841
195	788.9655	8676.9061
196	787.6768	8673.1194
197	789.0972	8672.6372
198	790.3859	8676.4239
199	799.1317	8673.4549
200	802.1052	8682.2139
201	805.6886	8680.9974
202	806.1708	8682.4178
203	802.5874	8683.6343
204	805.5610	8692.3933
205	793.3660	8685.1807
206	793.8492	8686.6008
207	791.9456	8685.6629
208	792.4288	8687.0830
209	796.8293	8695.3576
210	798.1180	8699.1443
211	796.6976	8699.6265
212	795.4089	8695.8398
213	786.6225	8698.8226
214	784.1207	8703.8961
215	787.9084	8702.6103
216	789.0530	8705.9821
217	790.9469	8705.3391
218	794.8044	8716.7022
219	792.9106	8717.3451
220	794.0553	8720.7169
221	790.2676	8722.0028
222	791.5534	8725.7905
223	784.2657	8728.2645
224	782.9799	8724.4768
225	779.1922	8725.7627
226	780.4780	8729.5504
227	781.7639	8733.3381
228	766.6131	8738.4815
229	765.3273	8734.6938
230	764.0414	8730.9061
231	760.2538	8732.1920
232	761.5396	8735.9797
233	754.2350	8738.4594
234	752.9491	8734.6718
235	749.1614	8735.9576
236	750.4473	8739.7453
237	739.0842	8743.6029
238	739.3253	8744.3130
239	736.4846	8745.2774
240	733.7671	8737.2727
241	729.9794	8738.5585
242	726.1218	8727.1955
243	729.9095	8725.9096
244	727.2838	8718.1750
245	730.1245	8717.2106
246	730.3656	8717.9208
247	741.7287	8714.0633
248	743.0145	8717.8509
249	743.6575	8719.7448
250	732.2944	8723.6024
251	743.9789	8720.6917
252	740.1912	8721.9776
253	744.4094	8734.4027
254	748.1970	8733.1168
255	748.5185	8734.0638
256	737.1554	8737.9213
257	746.8022	8716.5651
258	745.5164	8712.7774
259	752.8210	8710.2976
260	754.1069	8714.0853
261	757.8945	8712.7994
262	756.6087	8709.0118
263	771.7594	8703.8683
264	773.0453	8707.6560
265	776.8330	8706.3702
266	775.5471	8702.5825
267	782.8348	8700.1084
268	807.9915	8699.5528
269	806.0976	8700.1957
270	809.9552	8711.5588
271	811.8490	8710.9159
272	808.5482	8729.7932
273	809.0314	8731.2132
274	807.6110	8731.6954
275	807.1278	8730.2754
276	808.5014	8689.2830
277	809.2116	8689.0419
278	815.8401	8686.7916
279	823.4155	8684.2199
280	824.0584	8686.1138
281	816.4830	8688.6855
282	807.2156	8685.4953
283	807.9258	8685.2542
284	812.8971	8683.5665
285	814.5542	8683.0039
286	805.4563	8681.8683
287	812.0847	8679.6181
288	811.8524	8680.4890
289	811.3702	8679.0686
290	804.6439	8677.9199
291	805.3541	8677.6788
292	810.3254	8675.9911
293	811.9825	8675.4286
294	803.3580	8674.1322
295	804.0682	8673.8911
296	810.6967	8671.6409
297	810.0537	8669.7470
298	818.2720	8669.0692
299	817.6291	8667.1753
300	838.4614	8660.1031
301	841.4349	8668.8622
302	841.9171	8670.2825
303	844.8907	8679.0416
304	850.5722	8677.1128
305	849.2864	8673.3251
306	850.2333	8673.0036
307	846.3757	8661.6406
308	845.4288	8661.9620
309	844.1429	8658.1743
310	793.0932	8655.6676
311	791.1994	8656.3106
312	789.3188	8650.7711
313	791.2127	8650.1281
314	789.0456	8649.9662
315	790.9394	8649.3233
316	784.3342	8658.6412
317	783.7847	8659.3557
318	782.9138	8659.1234
319	774.1548	8662.0969
320	776.0486	8661.4540
321	774.1681	8655.9145
322	772.2742	8656.5574
323	772.0010	8655.7525
324	773.8948	8655.1096
325	781.0333	8653.5839
326	781.5827	8652.8693
327	782.4536	8653.1017
328	762.9182	8600.2229
329	764.0598	8598.9197
330	787.0456	8610.3612
331	808.2268	8598.4810
332	806.7990	8624.5522
333	799.8981	8625.5136
334	795.0279	8621.4734
335	792.6027	8614.3297
336	794.0303	8614.8851
337	795.8223	8620.1636
338	809.7090	8617.5185
339	806.2408	8607.3024
340	806.9036	8606.0221
341	809.6362	8605.3377
342	810.6034	8618.1956
343	698.3754	8749.0216
344	783.6490	8690.0636
345	779.8613	8691.3494

LINE TABLE

LINE	LENGTH	BEARING
L1	30.30'	N18°47'39"W
L2	9.33'	N71°12'21"E
L3	2.51'	N18°44'33"W
L4	2.51'	N18°44'33"W
L5	15.04'	S71°14'55"W
L6	65.00'	N18°45'05"W
L7	53.58'	N71°14'55"E
L8	3.19'	N18°45'05"W
L9	39.17'	N71°14'55"E
L10	3.19'	S18°45'05"E
L11	21.25'	N71°14'55"E
L12	30.60'	S18°45'05"E
L13	4.92'	N80°43'51"W
L14	43.41'	S18°45'05"E
L15	4.00'	N71°14'55"E
L16	4.00'	S18°45'05"E
L17	40.12'	N71°14'55"E
L18	8.00'	N18°45'05"W
L19	20.00'	N71°14'55"E
L20	8.00'	S18°45'05"E
L21	31.04'	N18°45'05"W
L22	27.68'	S71°14'55"W
L23	3.78'	S18°45'05"E
L24	4.00'	S71°14'55"W
L25	51.75'	S18°45'05"E
L26	20.00'	S71°14'55"W
L27	51.75'	N18°45'05"W
L28	4.00'	S71°14'55"W
L29	3.78'	N18°45'05"W
L30	23.12'	S71°14'55"W
L31	10.33'	S18°45'05"E
L32	30.31'	S71°14'55"W
L33	9.66'	S71°14'55"W
L34	4.00'	N18°45'05"W
L35	9.66'	S71°14'55"W
L36	9.66'	N18°47'39"W
L37	4.00'	N71°12'21"E
L38	9.66'	N18°47'39"W
L39	17.99'	S71°14'55"W
L40	16.98'	S18°47'39"E
L41	9.19'	N18°45'05"W
L42	9.19'	N18°45'05"W
L43	9.25'	N71°12'21"E
L44	9.25'	N71°12'21"E
L45	1.00'	S18°45'05"E
L46	4.75'	N71°12'21"E
L47	5.48'	N18°44'33"W
L48	2.03'	N45°41'35"E
L49	1.00'	N45°41'35"E
L50	4.48'	N18°44'33"W
L51	2.00'	S71°14'55"W
L52	16.00'	N18°45'05"W
L53	2.00'	S71°14'55"W
L54	24.46'	N18°44'33"W
L55	2.03'	S83°14'22"E
L56	5.51'	N18°44'33"W
L57	4.76'	S71°14'55"W
L58	1.00'	S18°45'05"E
L59	4.48'	N18°44'33"W
L60	1.00'	S83°14'22"E
L61	8.90'	N18°45'05"W
L62	8.90'	N18°45'05"W
L63	2.29'	N71°14'55"E
L64	2.33'	N18°45'05"W
L65	7.97'	S40°13'19"E
L66	8.63'	N71°14'55"E
L67	6.93'	N71°14'55"E
L68	1.00'	S81°56'58"E
L69	14.44'	N71°14'55"E
L70	15.25'	N18°45'05"W
L71	7.25'	N71°14'55"E
L72	5.25'	N18°45'05"W
L73	4.00'	N18°45'05"W
L74	25.58'	N71°14'55"E
L75	4.00'	S18°45'05"E
L76	39.17'	N71°14'55"E
L77	4.00'	S18°45'05"E
L78	20.39'	N71°14'55"E
L79	4.00'	S18°45'05"E
L80	4.86'	S71°14'55"W
L81	5.82'	S71°14'55"W
L82	3.34'	N67°08'16"W
L83	16.00'	N88°41'20"E
L84	9.40'	S18°45'05"E
L85	17.55'	N71°14'55"E
L86	16.87'	N71°14'55"E
L87	30.24'	N71°14'55"E
L88	9.96'	N18°45'05"W
L89	8.49'	S26°14'55"W
L90	8.47'	S18°45'05"E
L91	8.47'	S18°45'05"E
L92	8.49'	S63°45'05"E
L93	9.96'	N18°45'05"W
L94	17.00'	S71°14'55"W
L95	12.67'	N18°45'05"W
L96	17.17'	N71°14'55"E
L97	17.79'	N18°45'05"W
L98	18.89'	N71°14'55"E
L99	6.50'	N18°45'05"W
L100	6.50'	N18°45'05"W
L101	11.55'	N71°14'55"E
L102	11.98'	N71°14'55"E
L103	6.44'	S40°13'19"E
L104	11.12'	N18°45'05"W
L105	81.22'	N18°45'05"W
L106	81.22'	N18°45'05"W
L107	45.63'	N71°14'55"E
L108	45.63'	N71°14'55"E
L109	81.18'	S18°45'05"E
L110	81.18'	S18°45'05"E
L111	24.00'	S18°45'05"E
L112	0.50'	S71°14'55"W
L113	0.50'	S71°14'55"W
L114	16.00'	S18°45'05"E
L115	9.26'	S18°45'05"E
L116	28.03'	N71°12'21"E
L117	28.03'	N71°12'21"E
L118	9.24'	S18°45'05"E
L119	9.24'	S18°45'05"E
L120	9.26'	S18°45'05"E
L121	9.25'	S71°14'55"W
L122	13.01'	S18°45'05"E
L123	13.01'	S18°45'05"E
L124	9.25'	S71°14'55"W
L125	9.22'	N18°45'05"W
L126	45.63'	N71°12'21"E
L127	45.63'	N71°12'21"E
L128	9.28'	N18°45'05"W
L129	9.22'	N18°45'05"W
L130	9.28'	N18°45'05"W
L131	9.25'	N71°14'55"E
L132	9.25'	N71°14'55"E
L133	9.25'	N71°14'55"E
L134	9.25'	N71°14'55"E
L135	2.00'	N18°45'05"W
L136	12.00'	S71°14'55"W
L137	2.00'	N18°45'05"W
L138	19.12'	N71°14'55"E
L139	2.00'	N18°45'05"W
L140	12.00'	N71°14'55"E
L141	2.00'	N18°45'05"W
L142	4.00'	S18°45'05"E
L143	4.00'	N71°14'55"E
L144	7.70'	S18°45'05"E
L145	4.00'	S71°14'55"W
L146	4.00'	N18°45'05"W
L147	4.00'	S71°14'55"W
L148	4.00'	N71°14'55"E
L149	16.00'	S18°45'05"E
L150	4.00'	S71°14'55"W
L151	16.00'	N18°45'05"W
L152	4.00'	N71°14'55"E
L153	4.00'	N18°45'05"W
L154	4.00'	S71°14'55"W
L155	7.71'	N18°45'05"W
L156	4.00'	S71°14'55"W
L157	4.00'	S18°45'05"E
L158	19.12'	S71°14'55"W
L159	4.00'	S71°14'55"W
L160	12.00'	N18°45'05"W
L161	3.00'	N18°45'05"W
L162	28.62'	N71°14'55"E
L163	12.00'	N18°45'05"W
L164	28.62'	S71°14'55"W
L165	4.00'	S18°45'05"E
L166	12.00'	S71°14'55"W
L167	4.00'	S18°45'05"E
L168	3.00'	S18°45'05"E
L169	12.00'	S18°45'05"E
L170	12.00'	S18°45'05"E
L171	4.00'	S18°45'05"E
L172	13.12'	S71°14'55"W
L173	4.00'	N18°45'05"W
L174	4.00'	S71°14'55"W
L175	4.00'	N18°45'05"W
L176	4.00'	S71°14'55"W
L177	7.71'	N18°45'05"W
L178	4.00'	N71°14'55"E
L179	4.00'	N18°45'05"W
L180	4.00'	S71°14'55"W
L181	16.00'	N18°45'05"W
L182	4.00'	N71°14'55"E
L183	4.00'	N18°45'05"W
L184	4.00'	S71°14'55"W
L185	7.70'	N18°45'05"W
L186	4.00'	N71°14'55"E
L187	4.00'	N18°45'05"W
L188	2.00'	N71°14'55"E
L189	15.75'	N18°45'05"W
L190	2.00'	N71°14'55"E
L191	4.00'	N71°14'55"E
L192	7.00'	N18°45'05"W
L193	4.00'	N71°14'55"E
L194	8.00'	N71°14'55"E
L195	7.00'	N18°45'05"W
L196	8.00'	N71°14'55"E
L197	31.75'	S18°45'05"E
L198	31.75'	S18°45'05"E
L199	7.00'	S18°45'05"E
L200	4.00'	N71°14'55"E
L201	4.00'	N71°14'55"E
L202	2.00'	N71°14'55"E
L203	15.75'	S18°45'05"E
L204	2.00'	S71°14'55"W
L205	20.00'	N71°14'55"E
L206	4.00'	N71°14'55"E
L207	1.00'	S18°45'05"E
L208	12.00'	N71°14'55"E
L209	12.00'	N71°14'55"E
L210	1.00'	S18°45'05"E
L211	4.00'	N71°14'55"E
L212	2.00'	N18°45'05"W
L213	6.70'	S71°14'55"W
L214	2.00'	N18°45'05"W
L215	16.00'	S18°45'05"E
L216	6.85'	N71°14'55"E
L217	2.00'	S18°45'05"E
L218	6.70'	N71°14'55"E
L219	2.00'	S18°45'05"E
L220	57.22'	S71°14'55"W
L221	56.35'	S71°14'55"W
L222	5.57'	N71°14'55"E
L223	10.79'	N71°14'55"E
L224	16.00'	S18°45'05"E
L225	1.00'	S31°53'24"E
L226	8.00'	S18°45'05"E
L227	8.00'	N71°14'55"E
L228	4.59'	S18°45'05"E
L229	4.83'	N26°14'55"E
L230	4.59'	N71°14'55"E

CURVE TABLE

CURVE	DELTA ANGLE	TANGENT	RADIUS	LENGTH	CORD	CORD BEARING
C1	64°26'08"	13.38'	21.23'	23.88'	22.64'	N73°49'31"W
C2	45°33'41"	8.94'	21.28'	16.92'	16.48'	N18°46'24"W
C3	64°29'49"	13.40'	21.23'	23.90'	22.66'	N36°18'34"E
C4	88°49'12"	15.67'	16.00'	24.80'	22.39'	S64°20'29"E
C5	32°56'20"	5.91'	20.00'	11.50'	11.34'	S02°16'55"E
C6	85°04'55"	27.53'	30.00'	44.55'	40.57'	S56°43'42"W
C7	124°57'42"	38.39'	20.00'	43.62'	35.47'	S46°16'14"E
C8	45°50'26"	8.46'	20.00'	16.00'	15.58'	N06°42'36"W
C9	190°52'44"	241.54'	23.00'	76.62'	45.79'	S65°48'33"W
C10	89°57'26"	6.99'	7.00'	10.99'	9.90'	N63°46'22"W
C11	89°57'26"	2.00'	2.00'	3.14'	2.83'	N63°46'22"W
C12	67°24'58"	12.83'	19.23'	22.63'	21.35'	N75°02'04"W
C13	64°26'08"	12.75'	20.23'	22.75'	21.57'	N76°31'29"W
C14	180°00'00"	INFINITE	12.23'	38.43'	24.46'	N18°44'33"W
C15	70°26'33"	13.58'	19.24'	23.65'	22.19'	N39°00'18"E
C16	64°29'15"	12.76'	20.24'	22.78'	21.59'	N39°00'11"E
C17	48°16'20"	7.17'	16.00'	13.48'	13.09'	N16°05'08"W
C18	50°03'34"	7.94'	17.00'	14.85'	14.39'	N33°04'49"E
C19	50°03'34"	7.47'	16.00'	13.98'	13.54'	N33°04'49"E
C20	13°08'19"	1.84'	16.00'	3.67'	3.66'	N64°40'45"E
C21	90°00'00"	2.00'	2.00'	3.14'	2.83'	S63°45'05"E
C22	90°00'00"	2.00'	2.00'	3.14'	2.83'	N63°45'05"W
C23	90°00'00"	13.50'	13.50'	21.21'	19.09'	S26°14'55"W
C24	90°00'00"	9.17'	9.17'	14.40'	12.97'	S26°14'55"W
C25	88°25'36"	11.67'	12.00'	18.52'	16.74'	S64°32'17"E
C26	39°33'02"	12.32'	34.26'	23.65'	23.18'	S00°32'58"E
C27	84°27'36"	7.26'	8.00'	11.79'	10.75'	S61°27'21"W
C28	146°21'24"	6.62'	2.00'	5.11'	3.83'	N30°30'26"E
C29	100°05'59"	9.55'	8.00'	13.98'	12.27'	S07°22'44"W
C30	13°49'11"	3.15'	26.00'	6.27'	6.26'	S64°20'19"W
C31	143°35'47"	43.22'	14.21'	35.62'	27.00'	S26°17'10"W
C32	62°26'40"	15.79'	26.04'	28.38'	27.00'	S26°17'10"W
C33	67°43'40"	11.54'	17.20'	20.34'	19.17'	S20°18'23"E
C34	83°15'34"	1.78'	2.00'	2.91'	2.66'	N22°52'42"E
C35	6°59'18"	2.67'	43.70'	5.33'	5.33'	S61°00'49"W
C36	120°13'02"	10.44'	6.00'	12.59'	10.40'	S02°35'21"E
C37	179°22'17"	1883.00'	10.33'	32.34'	20.66'	N26°59'17"E
C38	116°08'30"	9.63'	6.00'	12.16'	10.18'	S58°36'10"W
C39	19°01'56"	4.78'	28.51'	9.47'	9.43'	S08°59'03"E
C40	90°15'05"	6.03'	6.00'	9.45'	8.50'	S63°37'33"E
C41	90°00'00"	2.00'	2.00'	3.14'	2.83'	N26°14'55"E
C42	45°00'00"	0.83'	2.00'	1.57'	1.53'	S03°44'55"W
C43	90°00'00"	2.00'	2.00'	3.14'	2.83'	S71°14'55"W
C44	45°00'00"	0.83'	2.00'	1.57'	1.53'	N41°15'05"W
C45	90°00'00"	2.00'	2.00'	3.14'	2.83'	S63°45'05"E
C46	90°00'00"	2.00'	2.00'	3.14'	2.83'	N26°14'55"E
C47	90°00'00"	2.00'	2.00'	3.14'	2.83'	S26°14'55"W
C48	111°28'13"	14.68'	10.00'	19.46'	16.53'	N15°30'48"E
C49	21°28'13"	0.38'	2.00'	0.75'	0.75'	S29°29'12"E
C50	166°52'52"	86.97'	10.00'	29.13'	19.87'	N49°41'41"E
C51	35°20'39"	12.74'	40.00'	24.67'	24.29'	S29°17'14"E
C52	209°30'00"	51.28'	13.50'	49.36'	26.11'	N86°51'55"W
C53	51°37'50"	3.87'	8.00'	7.21'	6.97'	S07°55'50"E
C54	99°58'42"	1.19'	1.00'	1.74'	1.53'	N58°45'44"W
C55	160°02'35"	21.77'	3.83'	10.70'	7.54'	N71°14'55"E
C56	99°58'42"	1.19'	1.00'	1.74'	1.53'	S21°15'34"W
C57	92°14'37"	1.04'	1.00'	1.61'	1.44'	S62°37'47"E
C58	4°53'33"	1.41'	33.00'	2.82'	2.82'	S14°03'42"E
C59	194°37'37"	50.65'	6.50'	22.08'	12.89'	S85°41'54"W
C60	68°14'13"	0.68'	1.00'	1.19'	1.12'	N37°07'48"E

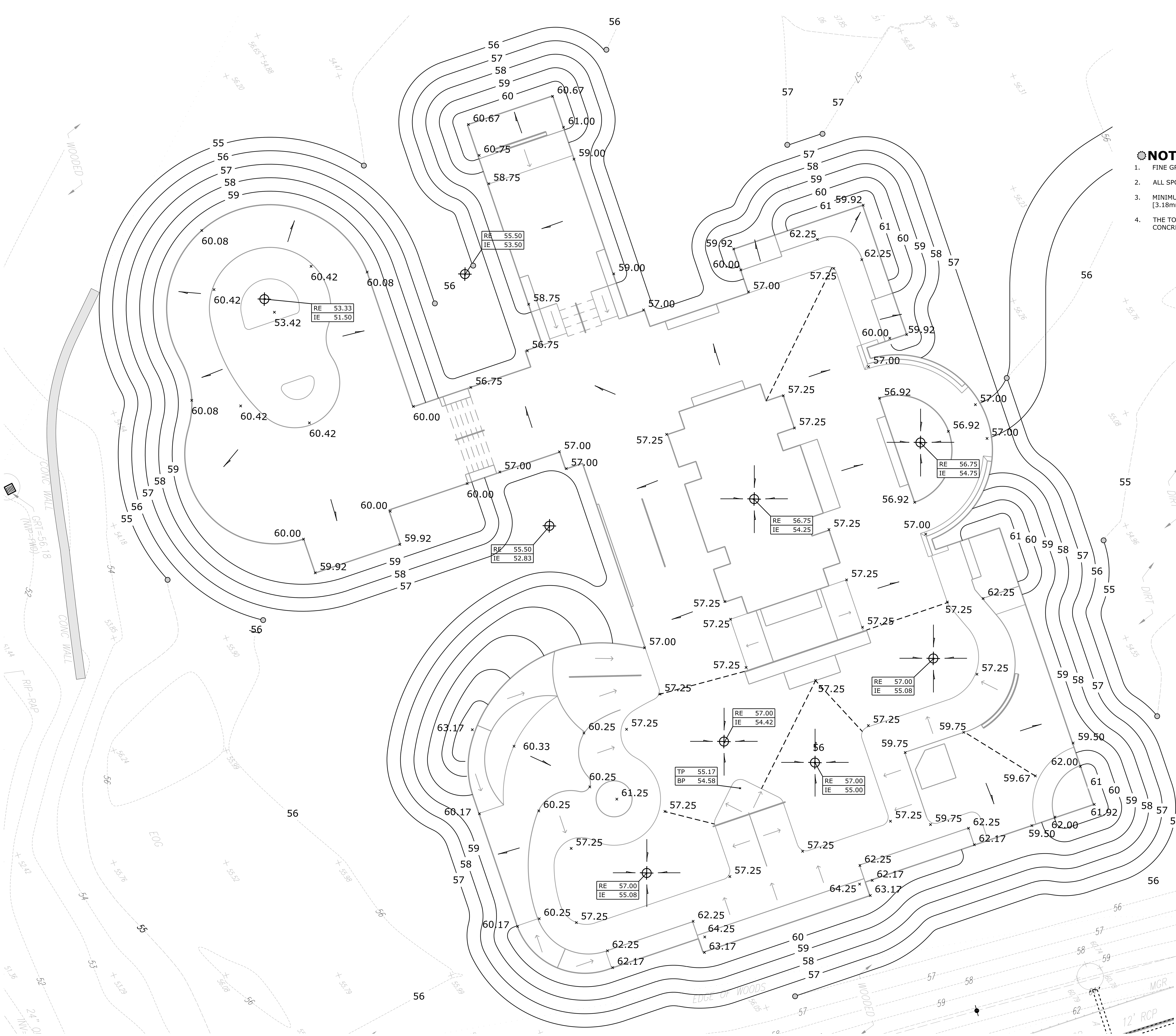
STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
HORIZONTAL CONTROL POINTS

SHEET::
AS-05
05 OF 16
SKATE PARK



NORTH

0'-0" 10'-0" 20'-0" 30'-0"

LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
	FINISH GRADE CONTOUR	N/A
×100.00	TOP OF CONCRETE SPOT ELEVATION	N/A
	DIRECTION OF SURFACE FLOW, 1.00% MINIMUM SLOPE	N/A
	GRADE BREAK	N/A
⌖	6" [15.24cm] ROUND DRAIN INLET	AS-14 / 9

NOTES

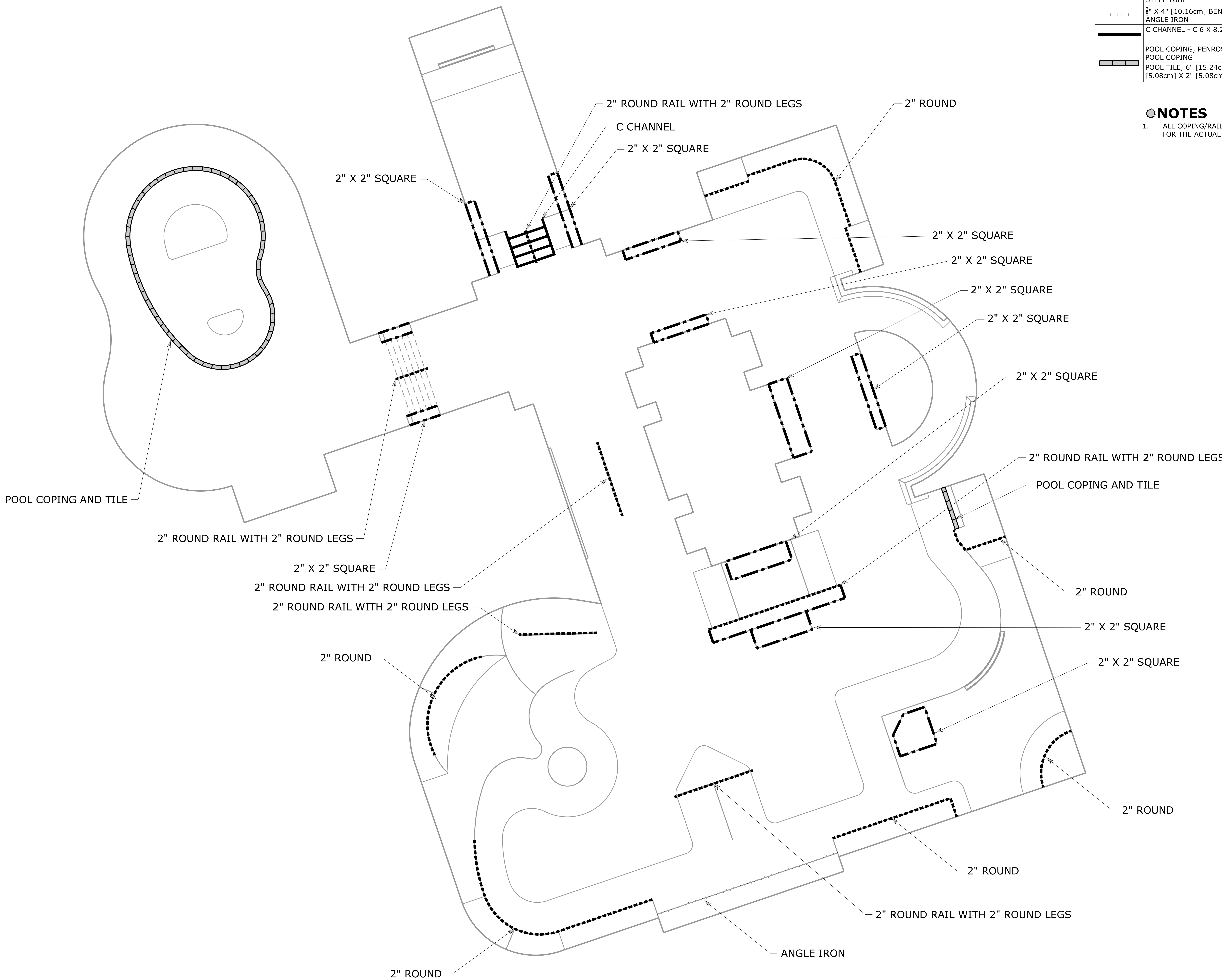
1. FINE GRADE ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS.
2. ALL SPOT ELEVATIONS ARE TOP OF CONCRETE UNLESS OTHERWISE NOTED.
3. MINIMUM SLOPE FOR ALL TOP DECK AND FLATBOTTOM SLABS SHALL BE 1/8" [3.18mm] PER 1'-0" [30.48cm] ≈ 1.00%.
4. THE TOP OF ALL ROUND COPING SHALL BE 3/8" [9.53mm] ABOVE THE TOP OF CONCRETE ELEVATIONS.

STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
SURFACE GRADING & DRAINAGE PLAN

SHEET:: 06 OF 16
AS-06
SKATE PARK



LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)	COLOR	FINISH
	2" [6.03cm] ROUND STEEL PIPE	AS-13 / 1	T.B.D.	PAINTED
	2" [5.08cm] X 2" [5.08cm] SQUARE STEEL TUBE	AS-13 / 3 & 4	T.B.D.	PAINTED
	$\frac{3}{8}$" X 4" [10.16cm] BENT STEEL PLATE - ANGLE IRON	AS-13 / 9	T.B.D.	PAINTED
	C CHANNEL - C 6 X 8.2	AS-15 / 4	T.B.D.	PAINTED
	POOL COPING, PENROSE BULLNOSE POOL COPING	AS-13 / 8	NATURAL GRAY	N/A
	POOL TILE, 6" [15.24cm] BAND OF 2" [5.08cm] X 2" [5.08cm] TILES	AS-13 / 8	T.B.D.	N/A

NOTES

1. ALL COPING/RAIL SIZES ARE NOMINAL, REFER TO THE STEEL SHAPES CHART FOR THE ACTUAL DIMENSIONS.

NORTH

0'-0" 10'-0" 20'-0" 30'-0"

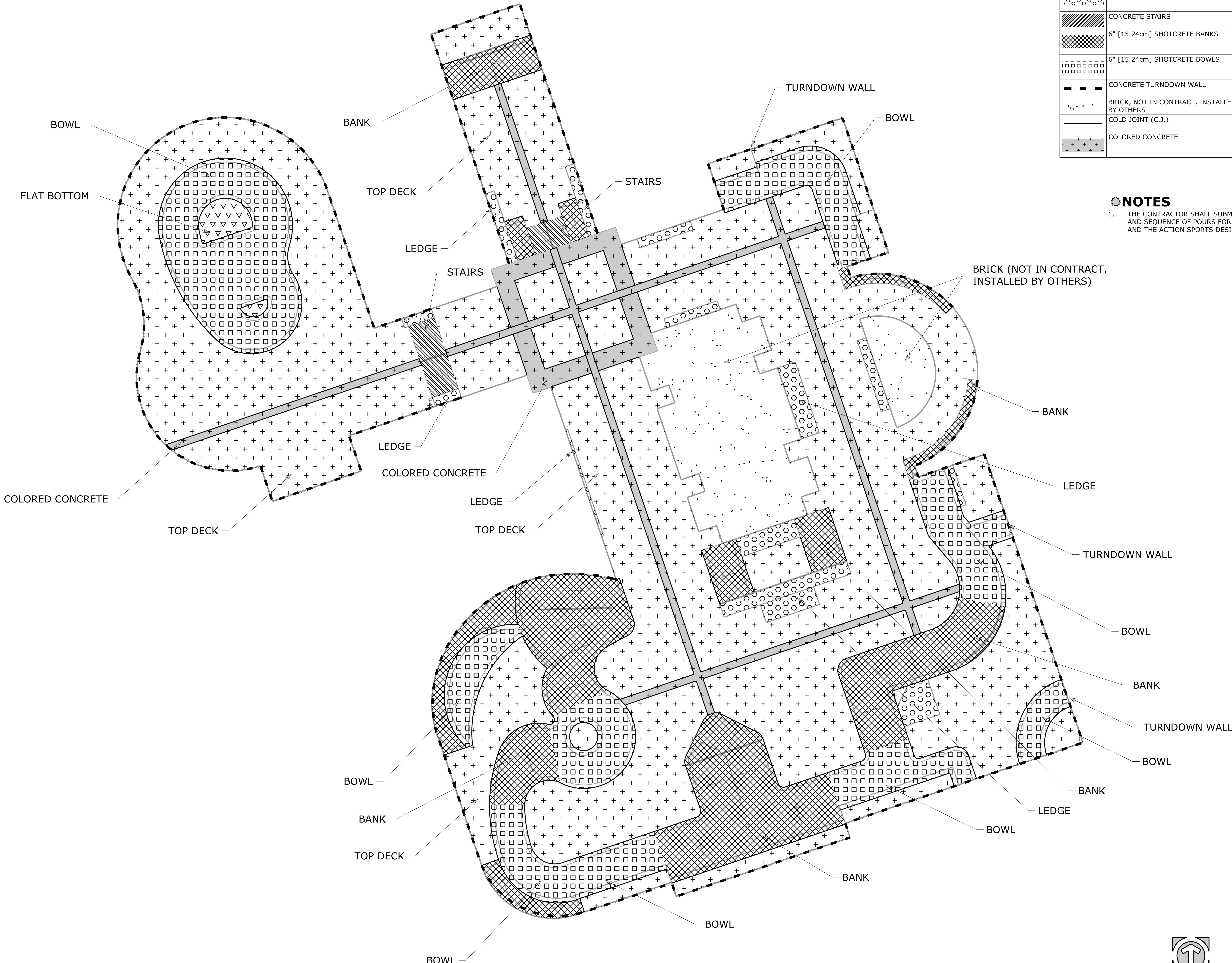
STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
COPING PLAN

SHEET::

SKATE PARK

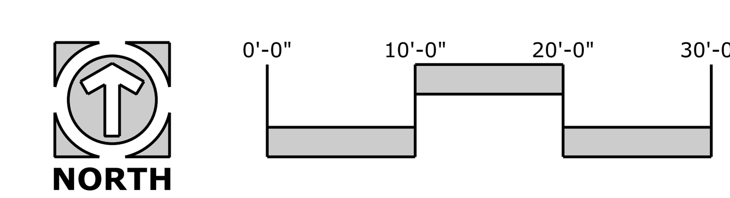


LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)	COLOR	FINISH
	4" [10.16cm] CONCRETE TOP DECK	AS-14 / 4	NATURAL GRAY	SMOOTH TROWEL
	6" [15.24cm] CONCRETE FLATBOTTOM	AS-14 / 5	NATURAL GRAY	SMOOTH TROWEL
	CONCRETE GRIND LEDGES	AS-15 / 2 & 3	DAVIS COLORS - GRAPHITE	SMOOTH TROWEL
	CONCRETE STAIRS	AS-14 / 7	NATURAL GRAY	LIGHT BROOM
	6" [15.24cm] SHOTCRETE BANKS	AS-14 / 2	DAVIS COLORS - DARK GRAY	SMOOTH TROWEL
	6" [15.24cm] SHOTCRETE BOWLS	AS-14 / 1	DAVIS COLORS - DARK GRAY	SMOOTH TROWEL
	CONCRETE TURNDOWN WALL	AS-15 / 1	NATURAL GRAY	SMOOTH TROWEL
	BRICK, NOT IN CONTRACT, INSTALLED BY OTHERS	SEE CIVIL PLANS	N/A	N/A
	COLD JOINT (C.J.)	AS-16	N/A	N/A
	COLORED CONCRETE	N/A	DAVIS COLORS - GRAPHITE	SMOOTH TROWEL

NOTES

1. THE CONTRACTOR SHALL SUBMIT A POUR SCHEDULE DEPICTING LOCATION AND SEQUENCE OF POURS FOR REVIEW BY THE OWNER'S REPRESENTATIVE AND THE ACTION SPORTS DESIGNER.



STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

Barrett Crook

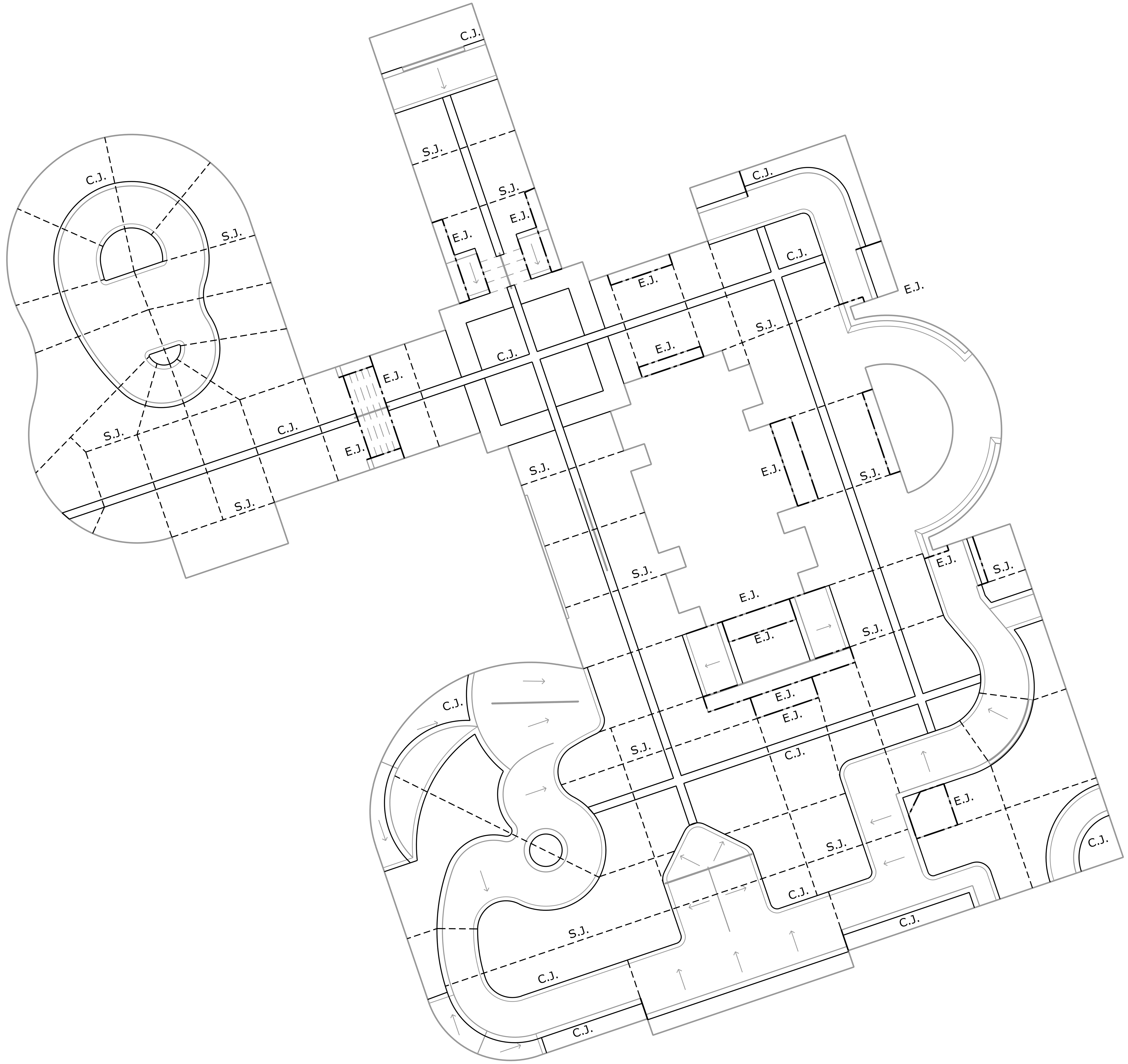
DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE::
CONCRETE PLAN

SHEET::
AS-08
08 OF 16

SKATE PARK



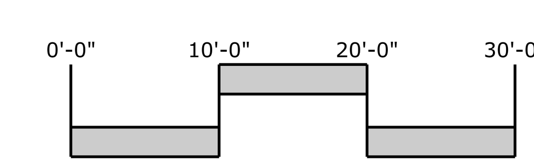
LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)	QUANTITY
	COLD JOINT (C.J.)	AS-16 / 1, 2, 3 & 4	0 L.F.
	EXPANSION JOINT (E.J.)	AS-16 / 5 & 6	0 L.F.
	SAWCUT JOINT (S.J.)	AS-16 / 7 & 8	0 L.F.
	DRAIN INLET	AS-06	N/A

NOTES

1. THE JOINTING PLAN IS DIAGRAMMATIC ONLY.
2. CONTRACTOR SHALL SNAP CHALK LINES FOR ALL SAW-CUT JOINTS FOR REVIEW BY THE ACTION SPORTS DESIGNER PRIOR TO CUTTING JOINTS.

NORTH



STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
JOINTING PLAN

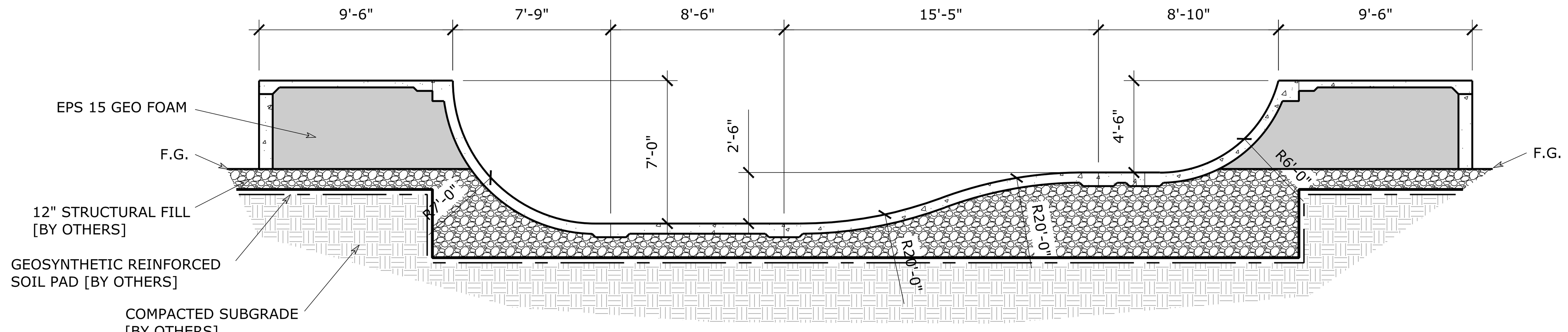
SHEET::
AS-09
09 OF 16
SKATE PARK

LEGEND

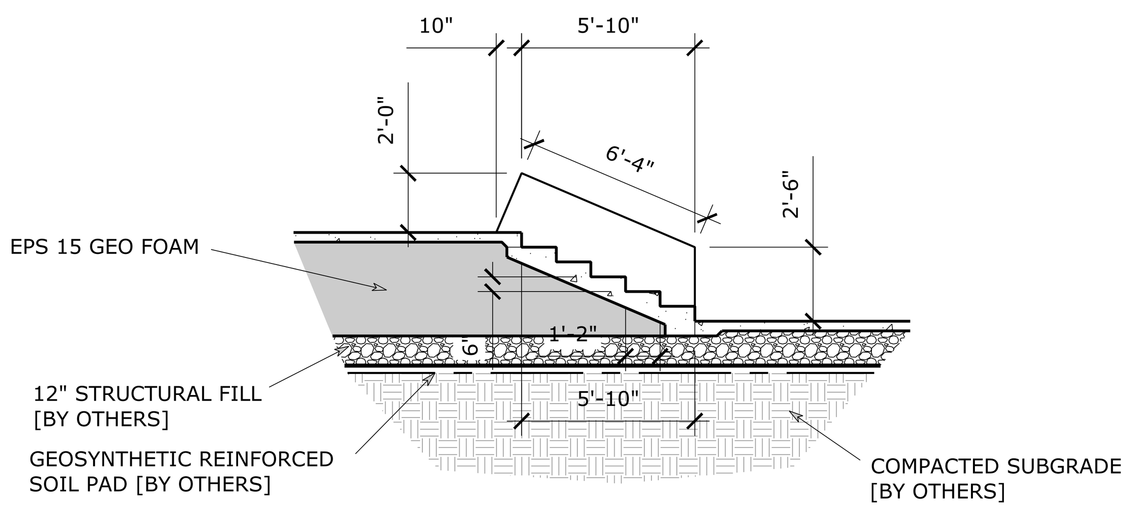
SYMBOL	DESCRIPTION	DETAIL(S)
	CONCRETE/SHOTCRETE	N/A
	SUBGRADE	N/A
F.G.	FINISH GRADE	N/A
	EPS 15 GEO FOAM	N/A
	STRUCTURAL FILL	SEE SHEETS L000-L503

NOTES

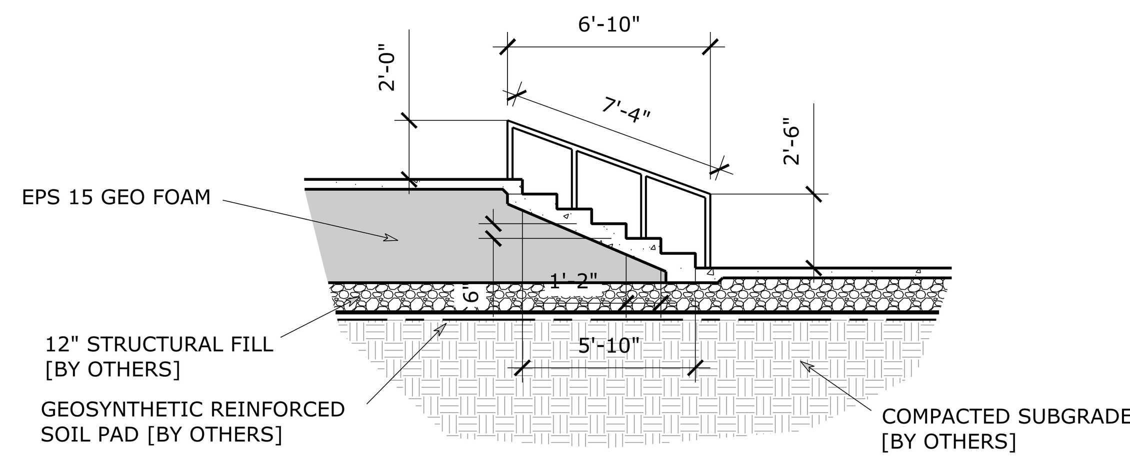
1. REFER TO THE COPING PLAN FOR EDGE TREATMENT LOCATION AND TYPE
2. REFER TO THE HORIZONTAL CONTROL PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
3. REFER TO THE SURFACE GRADING AND DRAINAGE PLAN FOR ACTUAL VERTICAL ELEVATIONS.



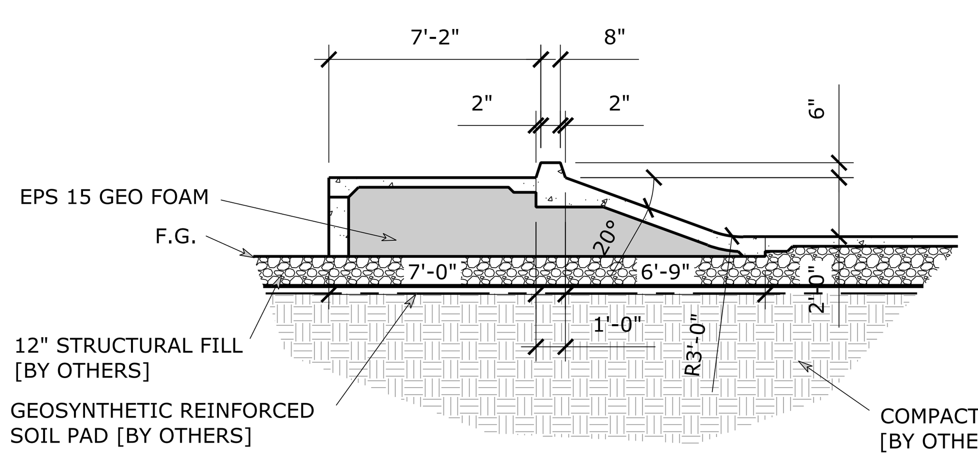
SECTION 1



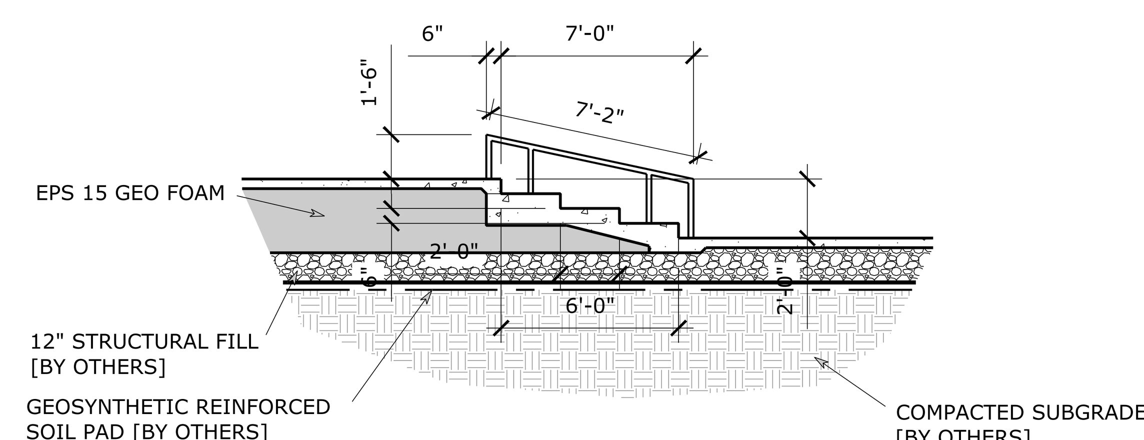
SECTION 2



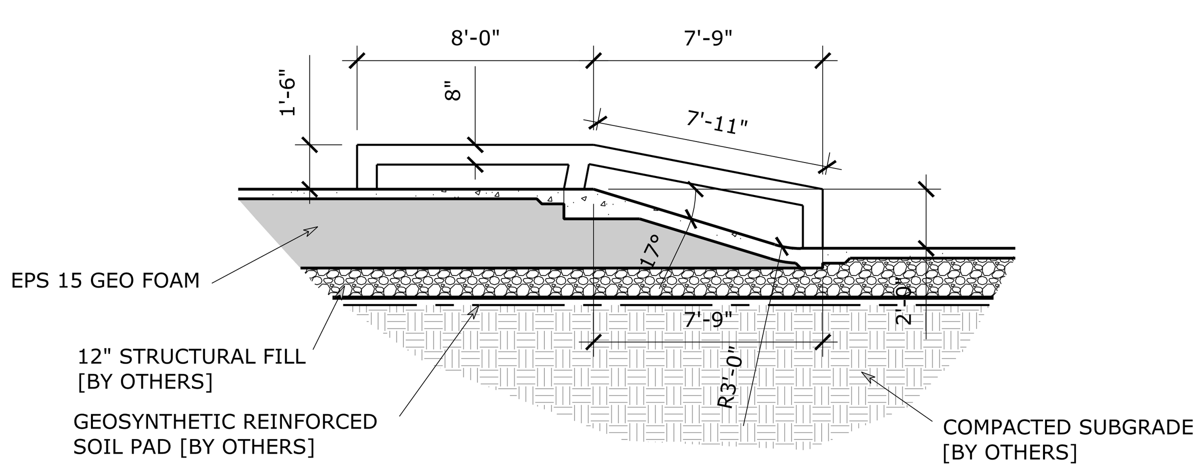
SECTION 3



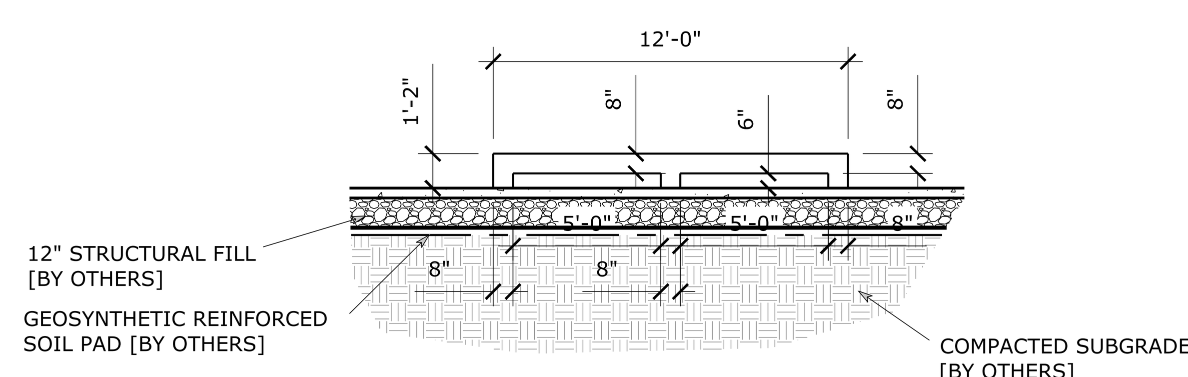
SECTION 4



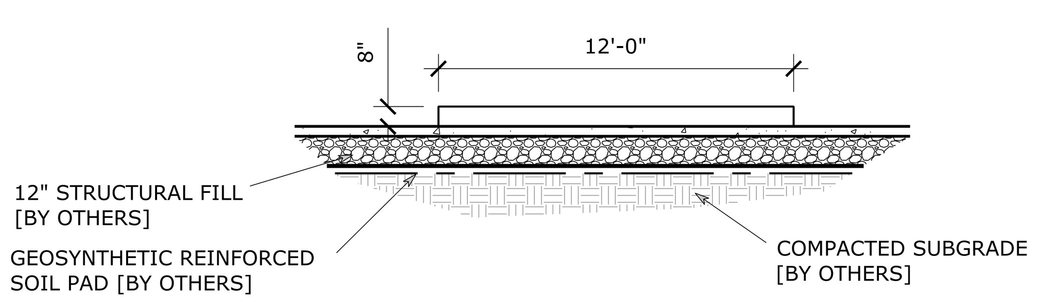
SECTION 5



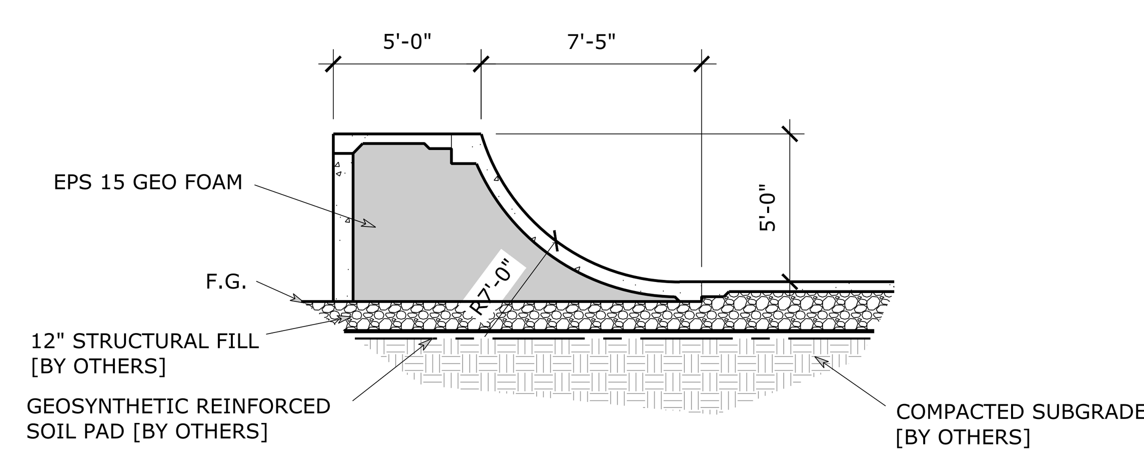
SECTION 6



SECTION 7

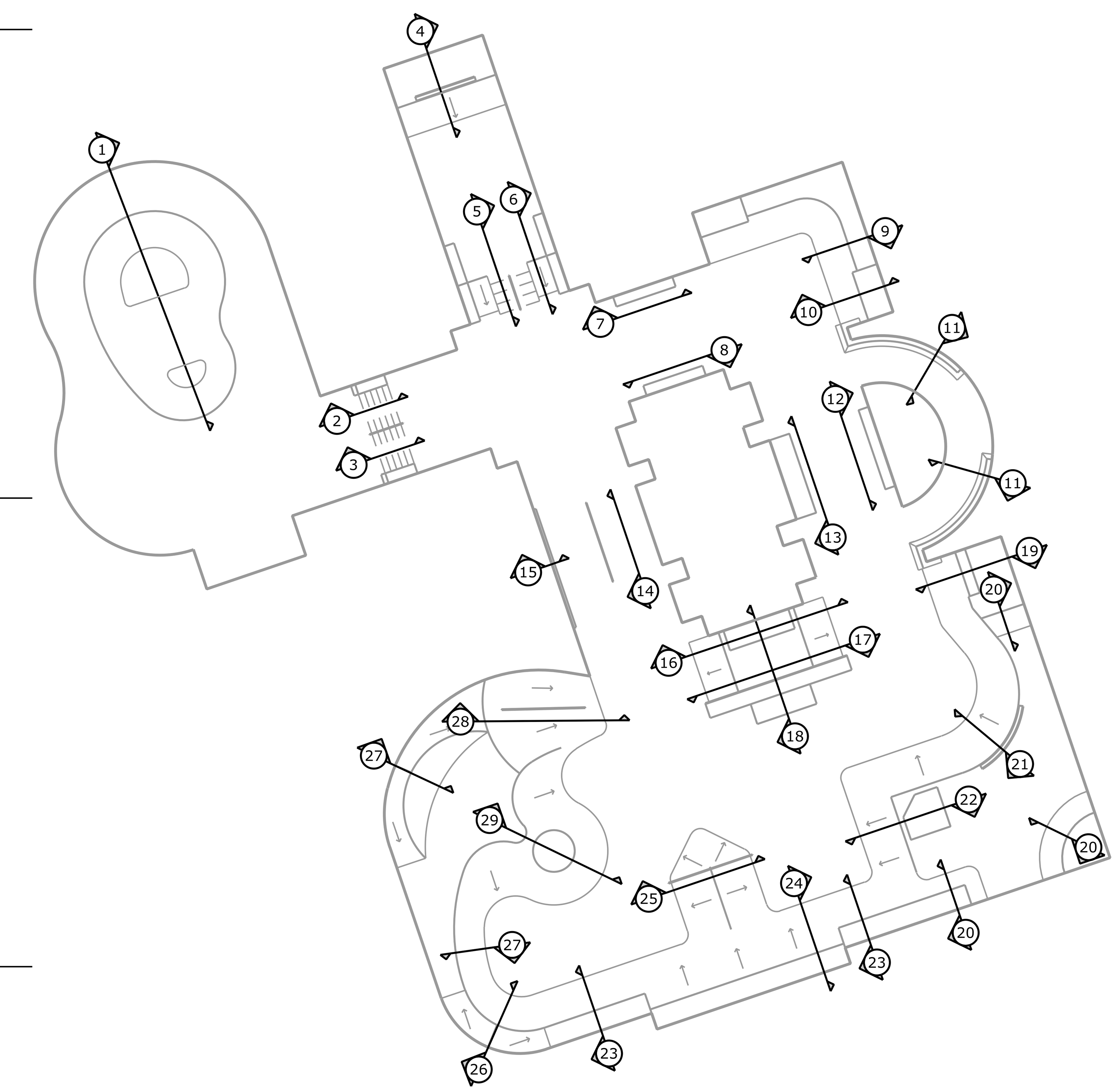


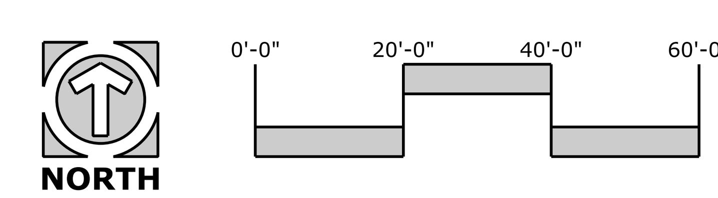
SECTION 8



SECTION 9

KEY MAP



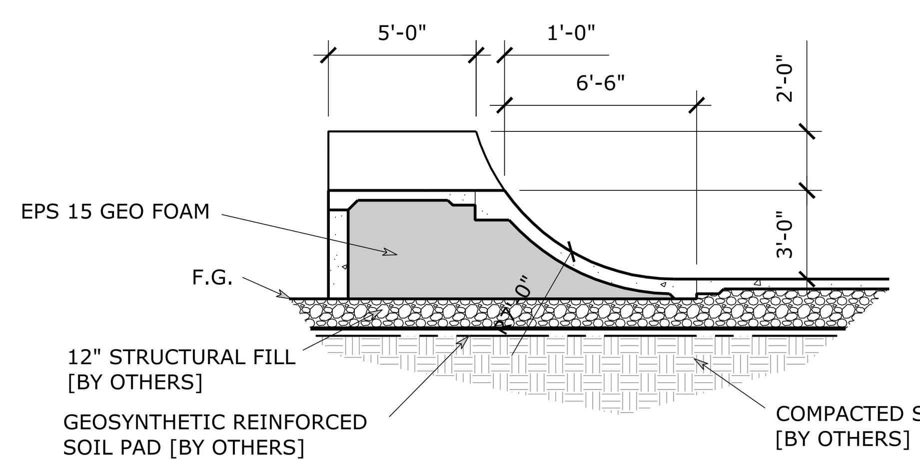


STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

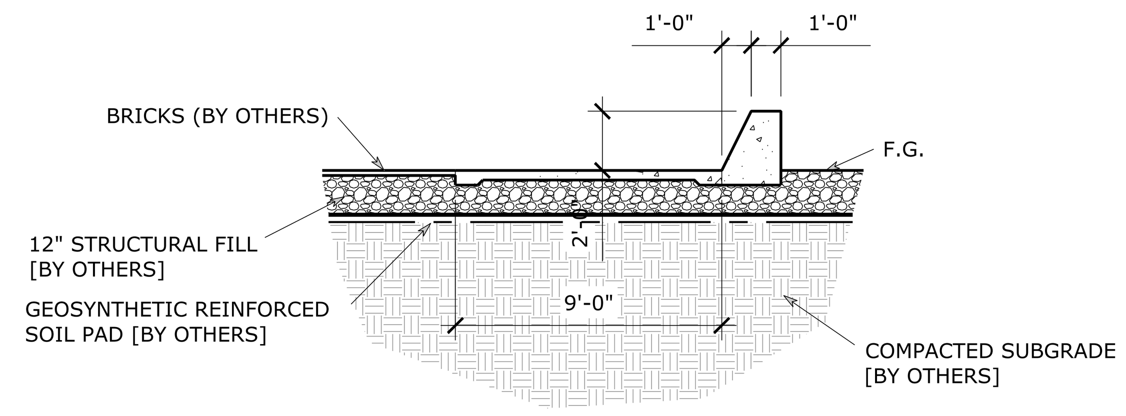
DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
CROSS SECTIONS

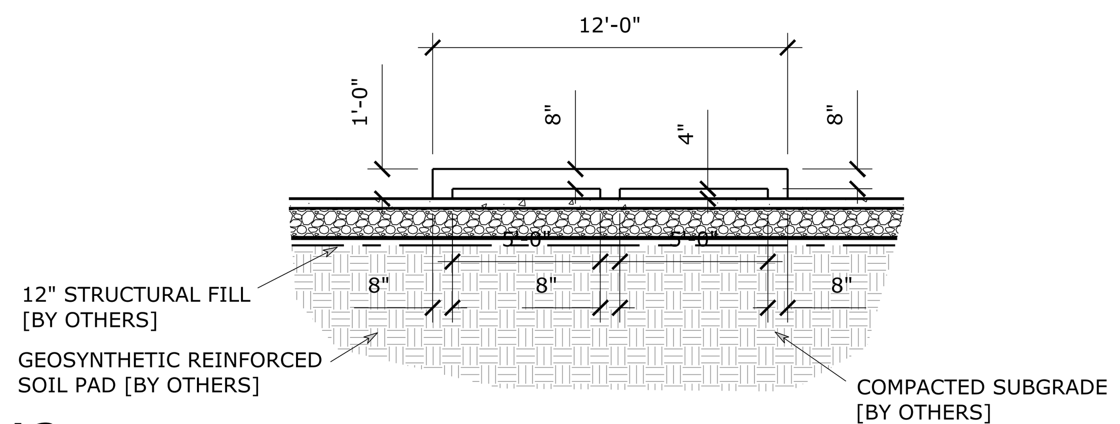
SHEET::
AS-10
SKATE PARK
10 OF 16



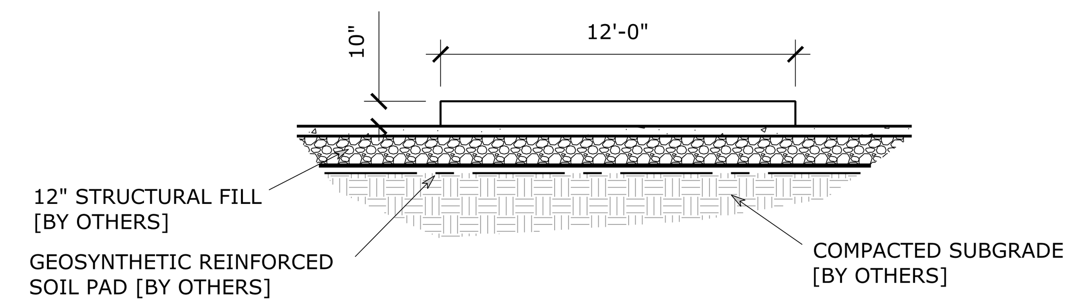
SECTION 10



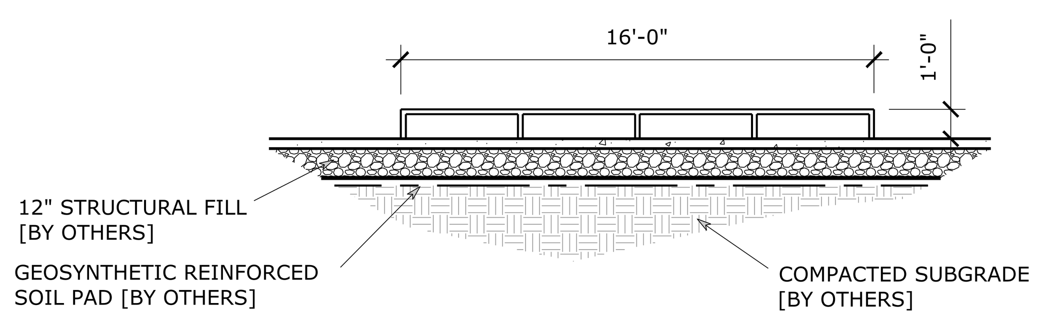
SECTION 11



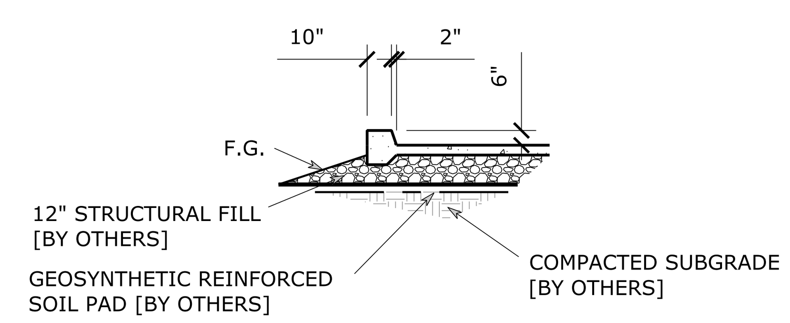
SECTION 12



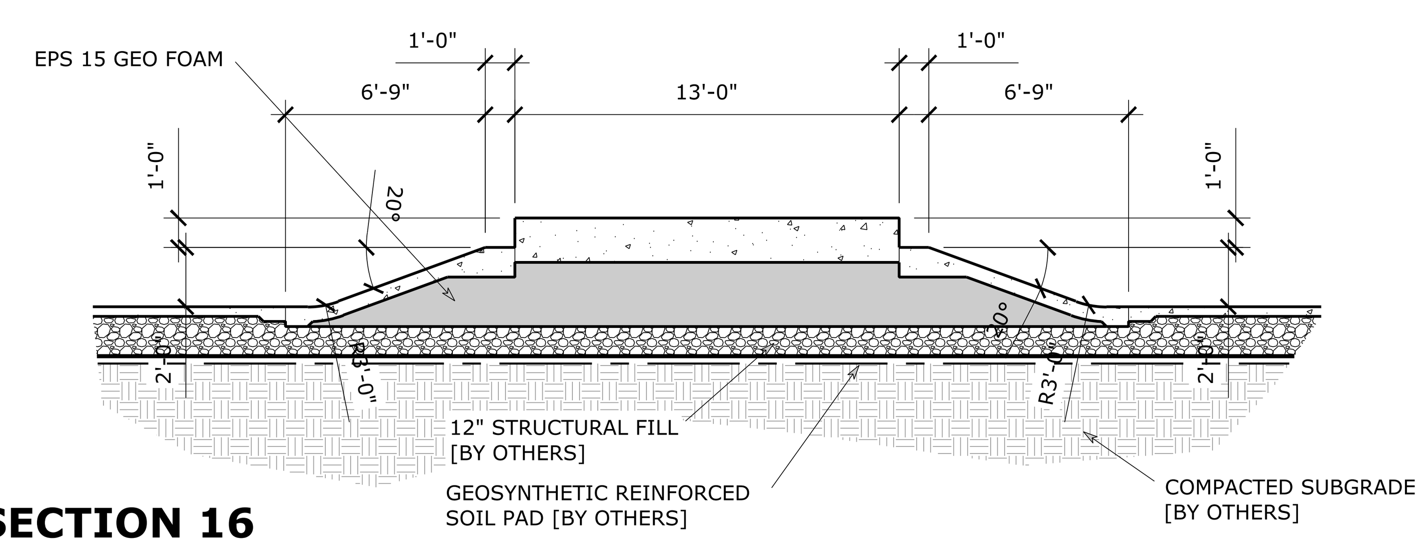
SECTION 13



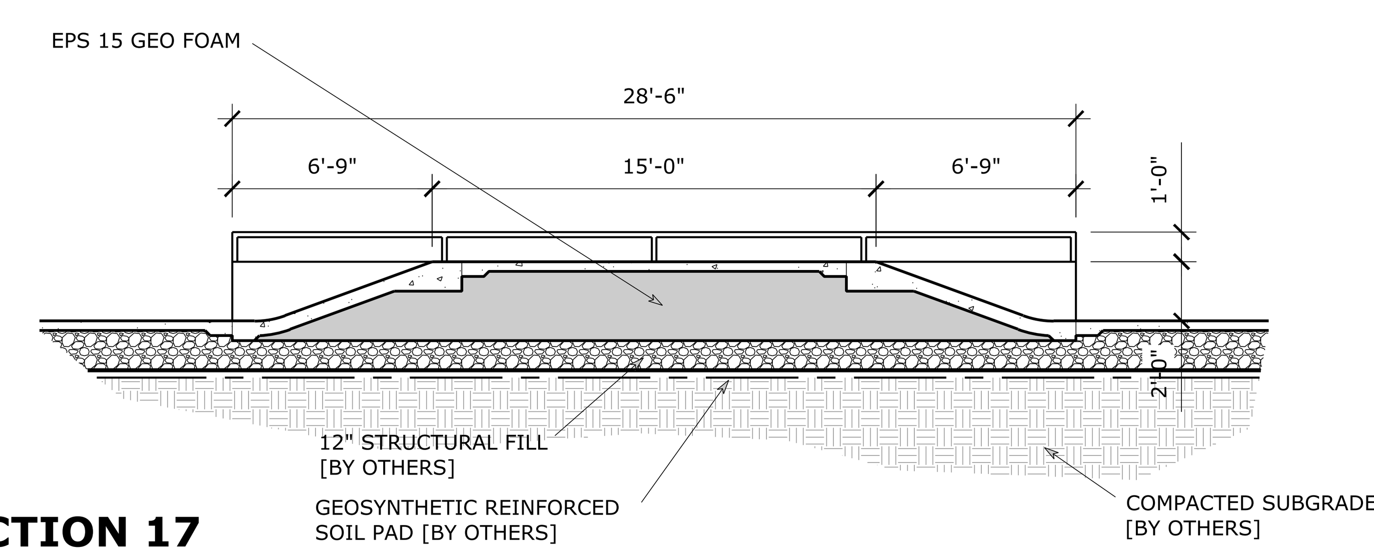
SECTION 14



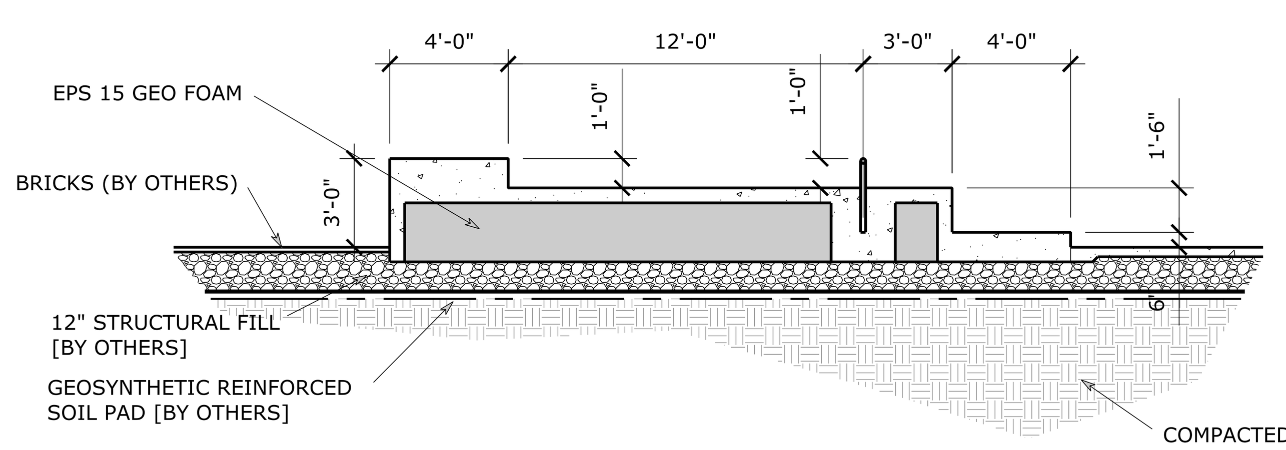
SECTION 15



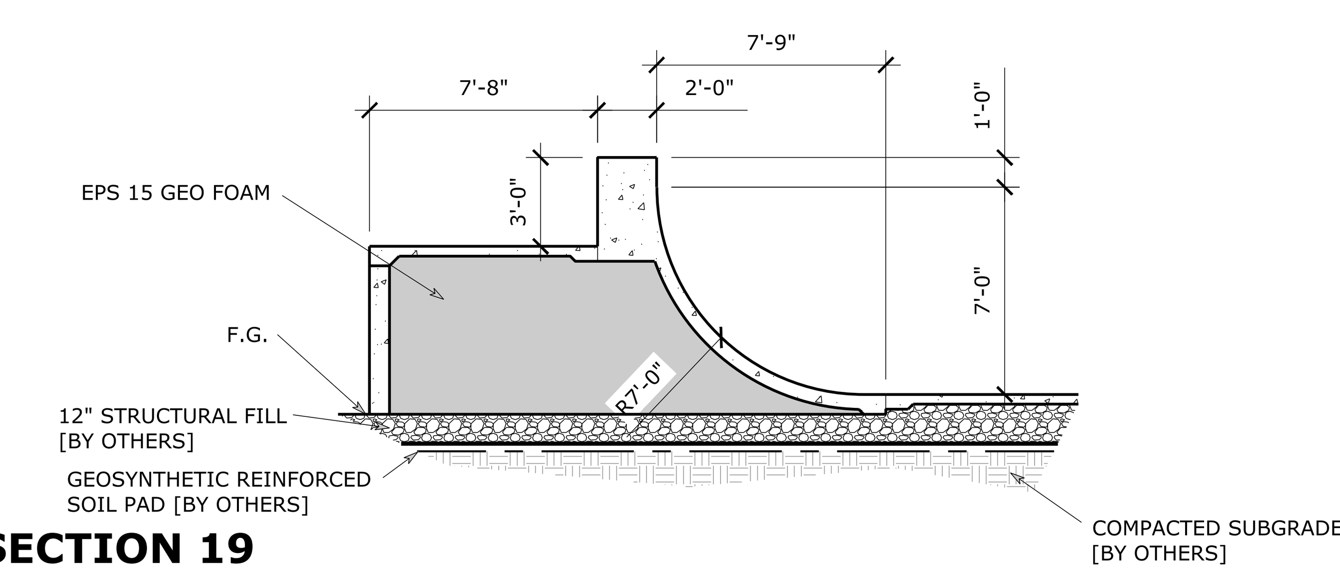
SECTION 16



SECTION 17



SECTION 18



SECTION 19

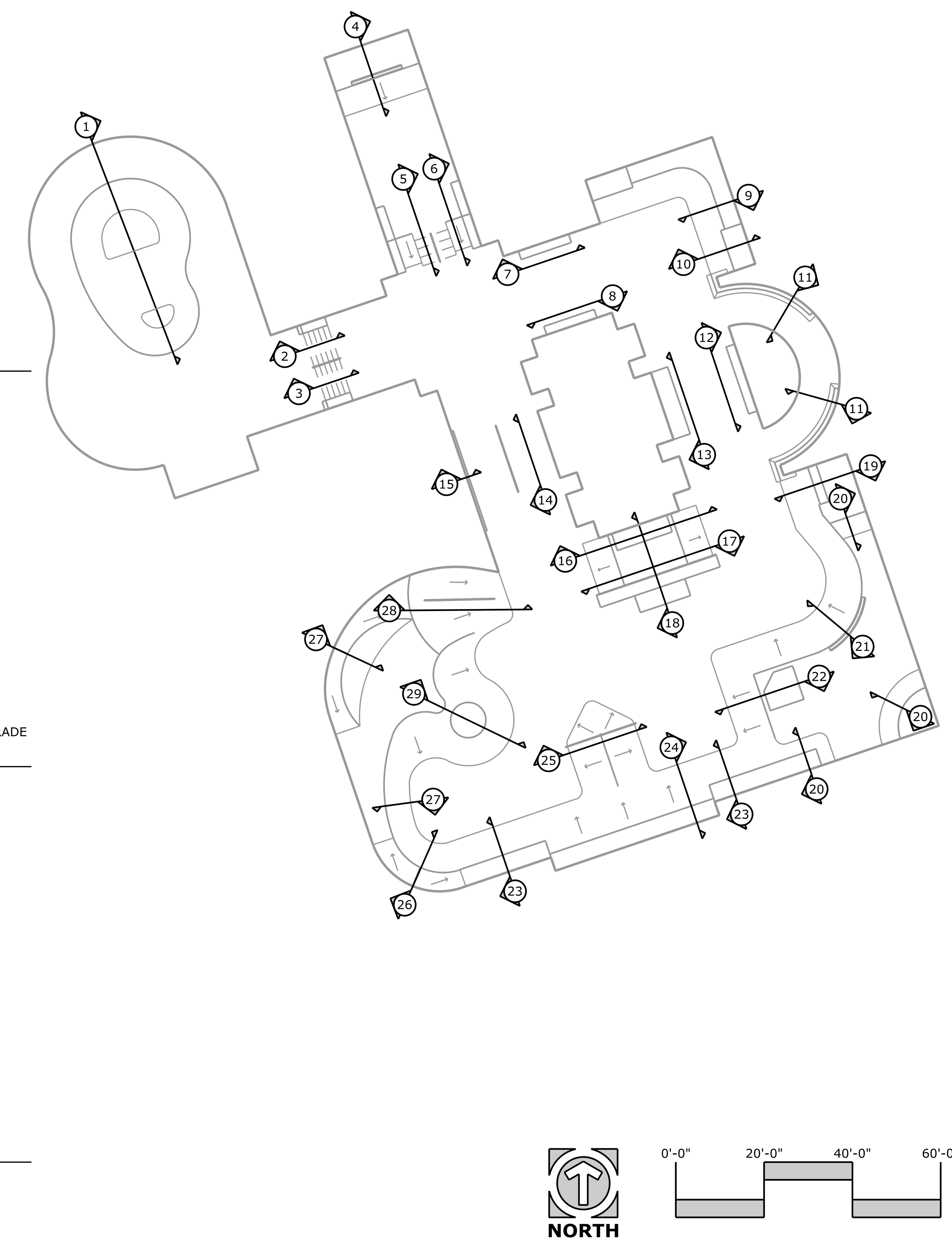
LEGEND

SYMBOL	DESCRIPTION	DETAIL(S)
	CONCRETE/SHOTCRETE	N/A
	SUBGRADE	N/A
F.G.	FINISH GRADE	N/A
	EPS 15 GEO FOAM	N/A
	STRUCTURAL FILL	SEE SHEETS L000-L503

NOTES

1. REFER TO THE COPING PLAN FOR EDGE TREATMENT LOCATION AND TYPE
2. REFER TO THE HORIZONTAL CONTROL PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
3. REFER TO THE SURFACE GRADING AND DRAINAGE PLAN FOR ACTUAL VERTICAL ELEVATIONS.

KEY MAP



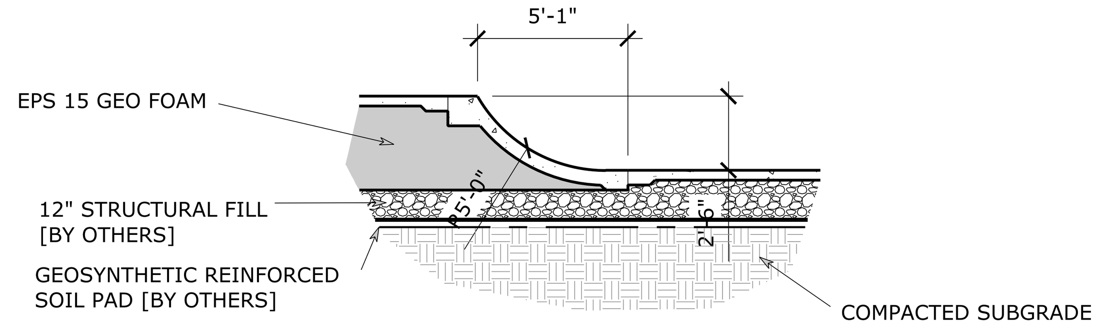
STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED: PILLAR TEAM
DRAWN: PILLAR TEAM
PROJECT #: 20-024
DATE: 02/15/23

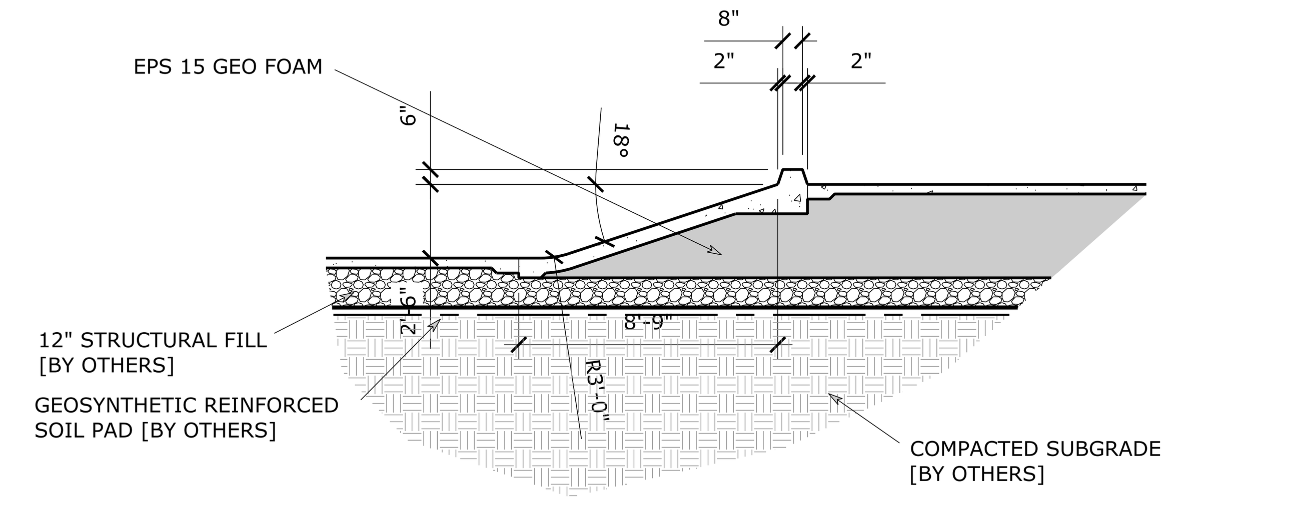
PROJECT:
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE

SHEET TITLE:
CROSS SECTIONS

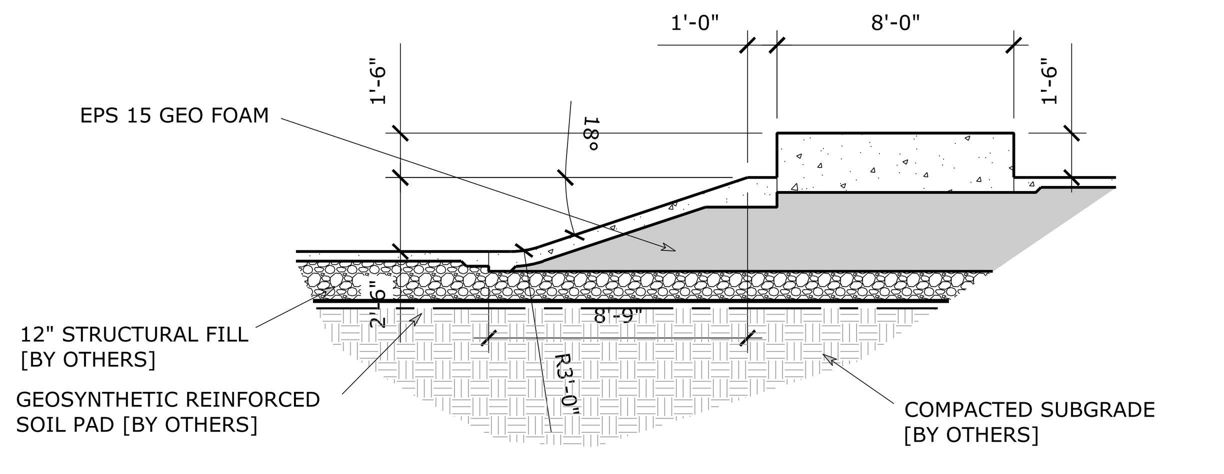
SHEET:
AS-11
11 OF 16
SKATE PARK



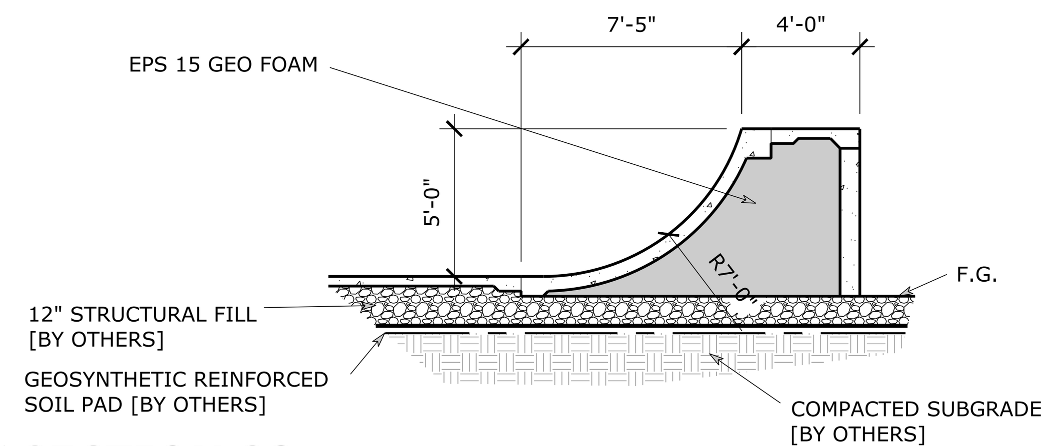
SECTION 20



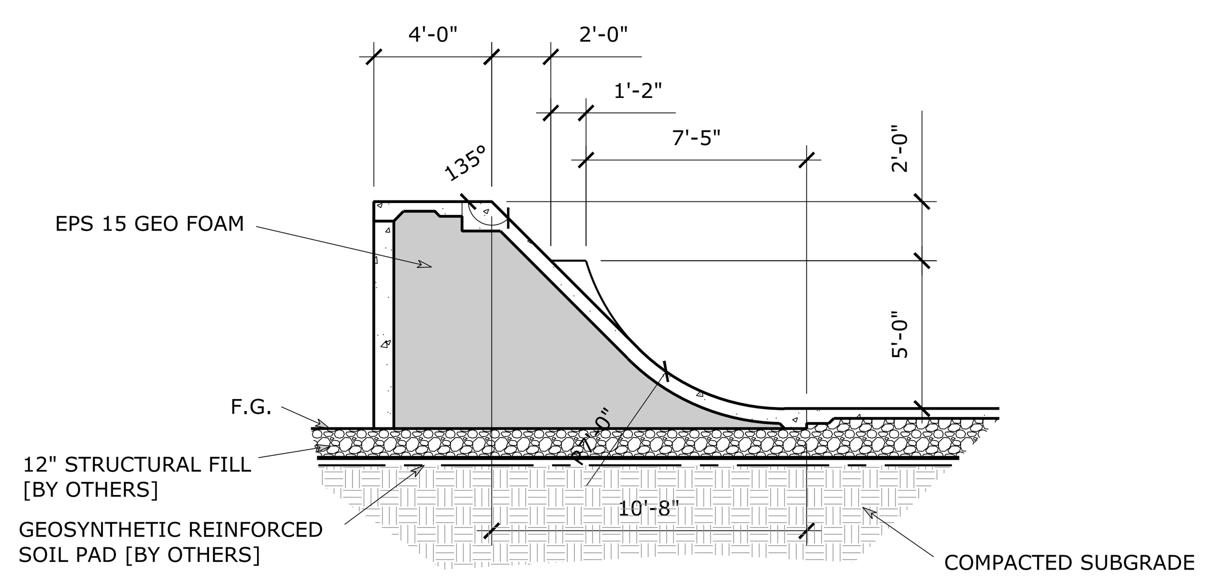
SECTION 21



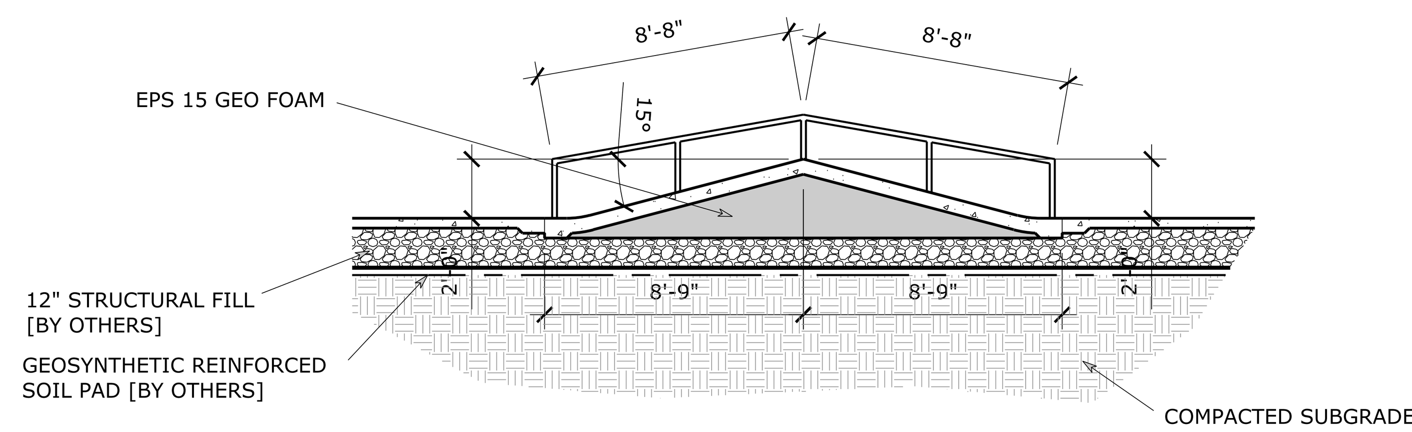
SECTION 22



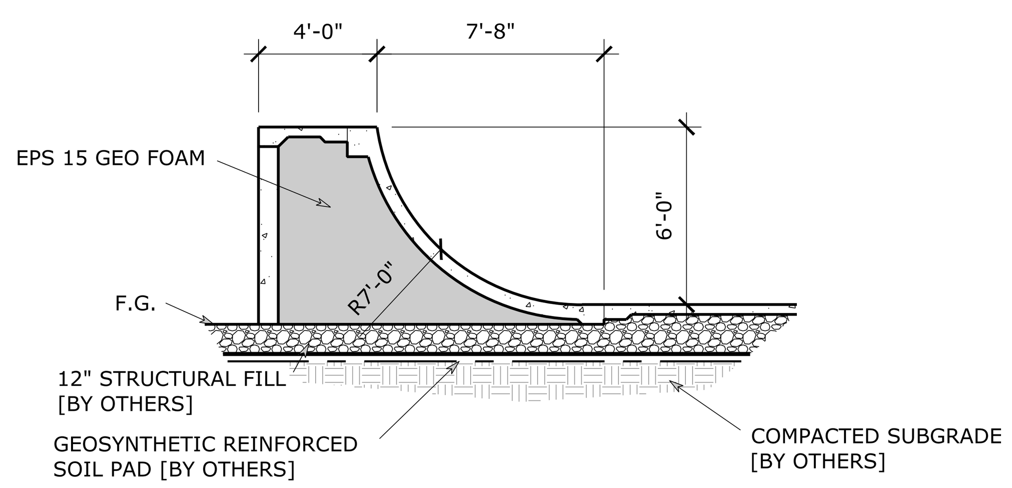
SECTION 23



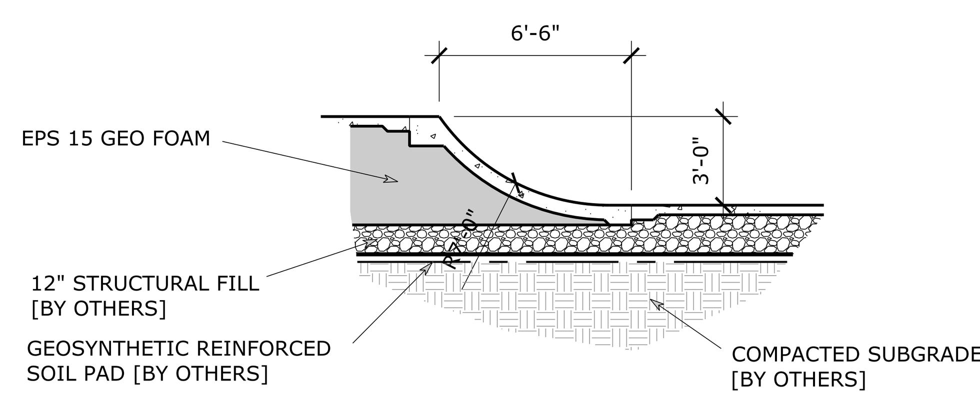
SECTION 24



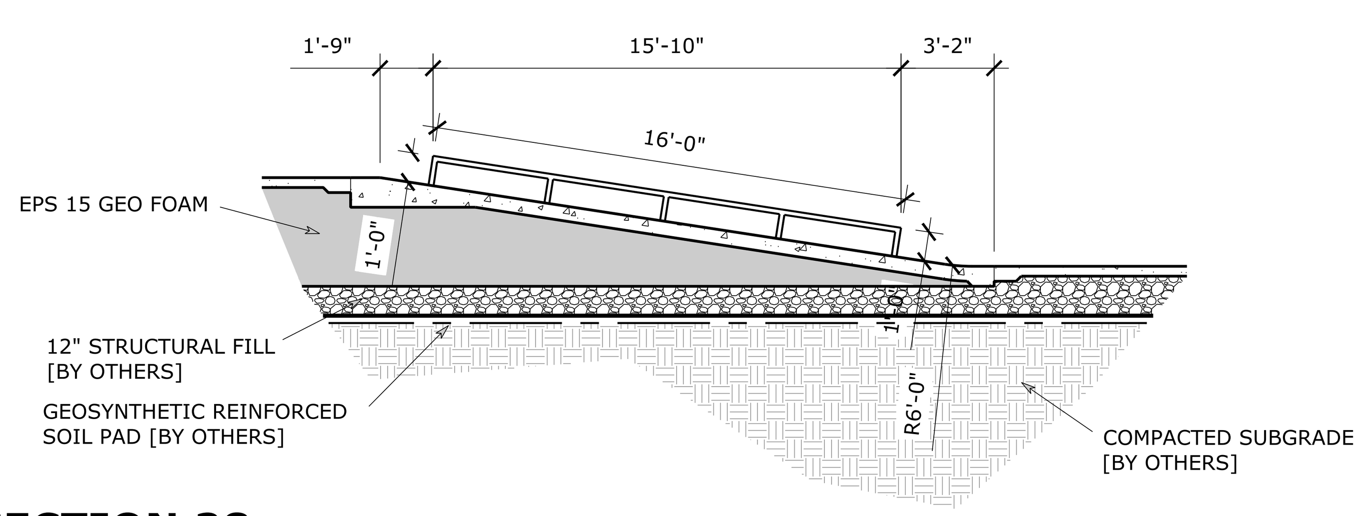
SECTION 25



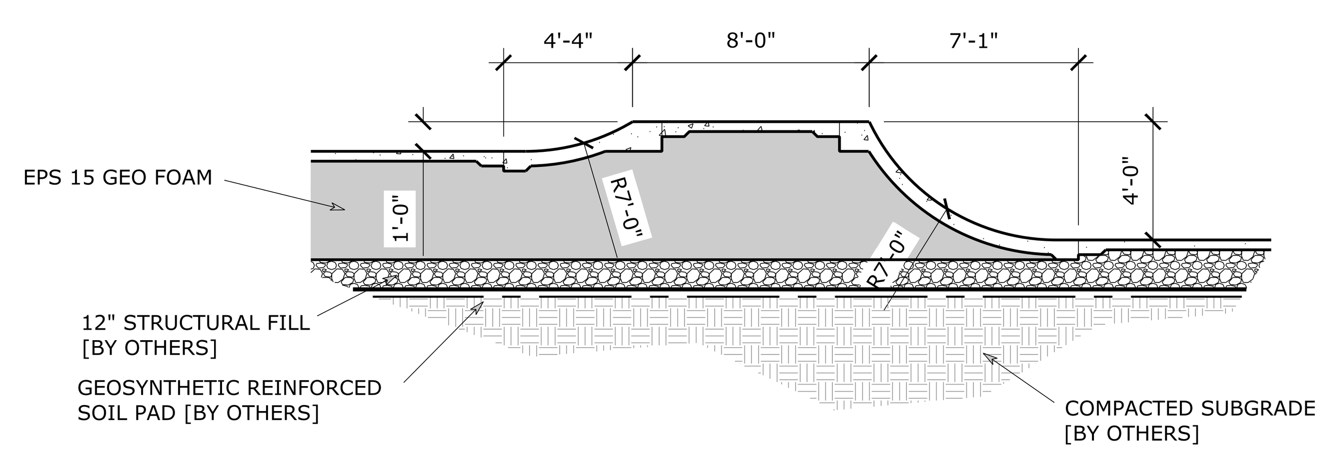
SECTION 26



SECTION 27



SECTION 28



SECTION 29

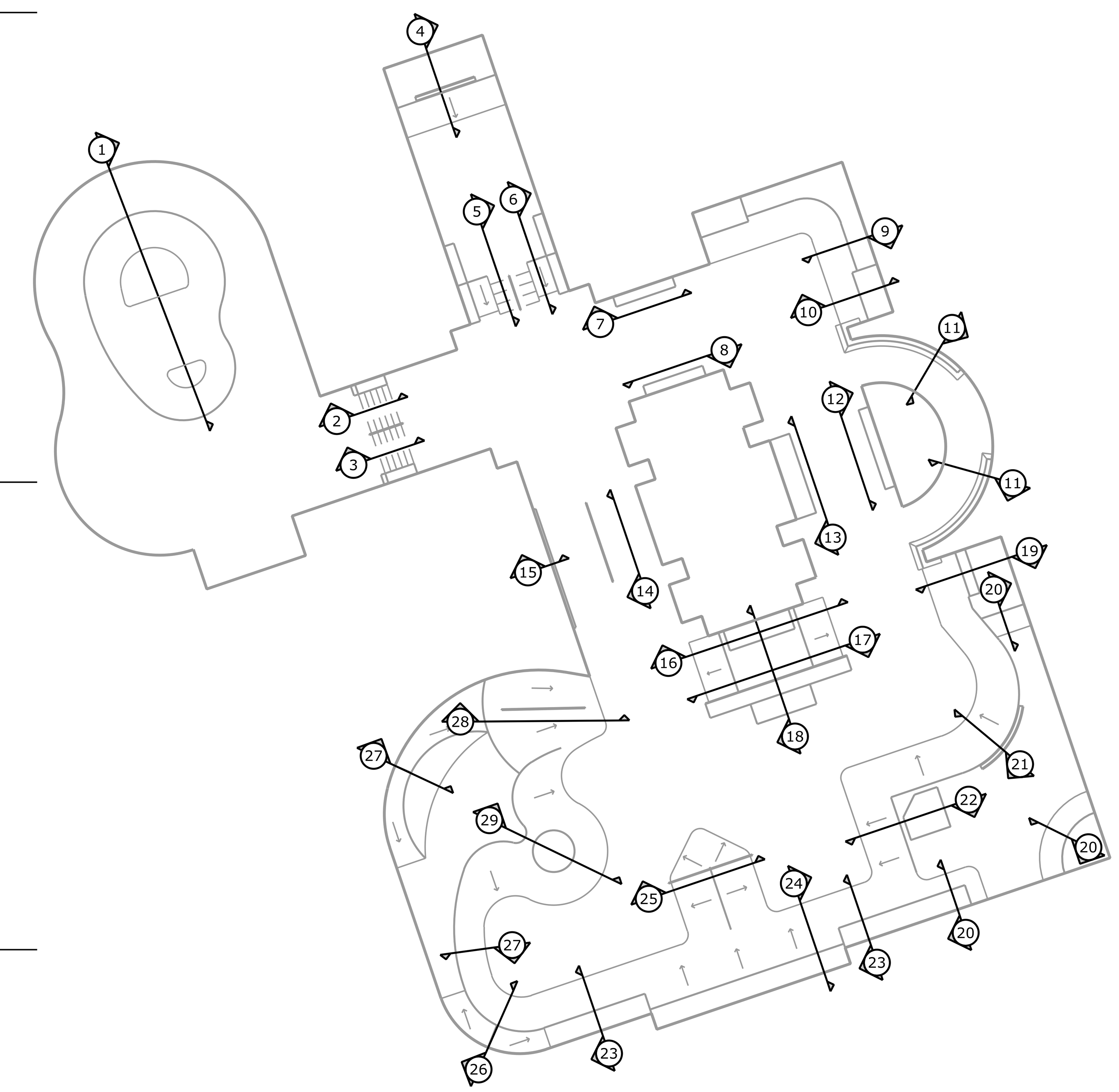
LEGEND

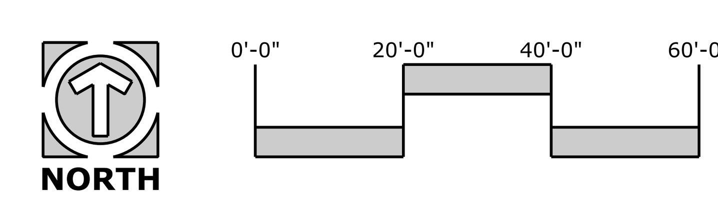
SYMBOL	DESCRIPTION	DETAIL(S)
	CONCRETE/SHOTCRETE	N/A
	SUBGRADE	N/A
F.G.	FINISH GRADE	N/A
	EPS 15 GEO FOAM	N/A
	STRUCTURAL FILL	SEE SHEETS L000-L503

NOTES

1. REFER TO THE COPING PLAN FOR EDGE TREATMENT LOCATION AND TYPE
2. REFER TO THE HORIZONTAL CONTROL PLAN FOR ACTUAL HORIZONTAL LOCATIONS.
3. REFER TO THE SURFACE GRADING AND DRAINAGE PLAN FOR ACTUAL VERTICAL ELEVATIONS.

KEY MAP



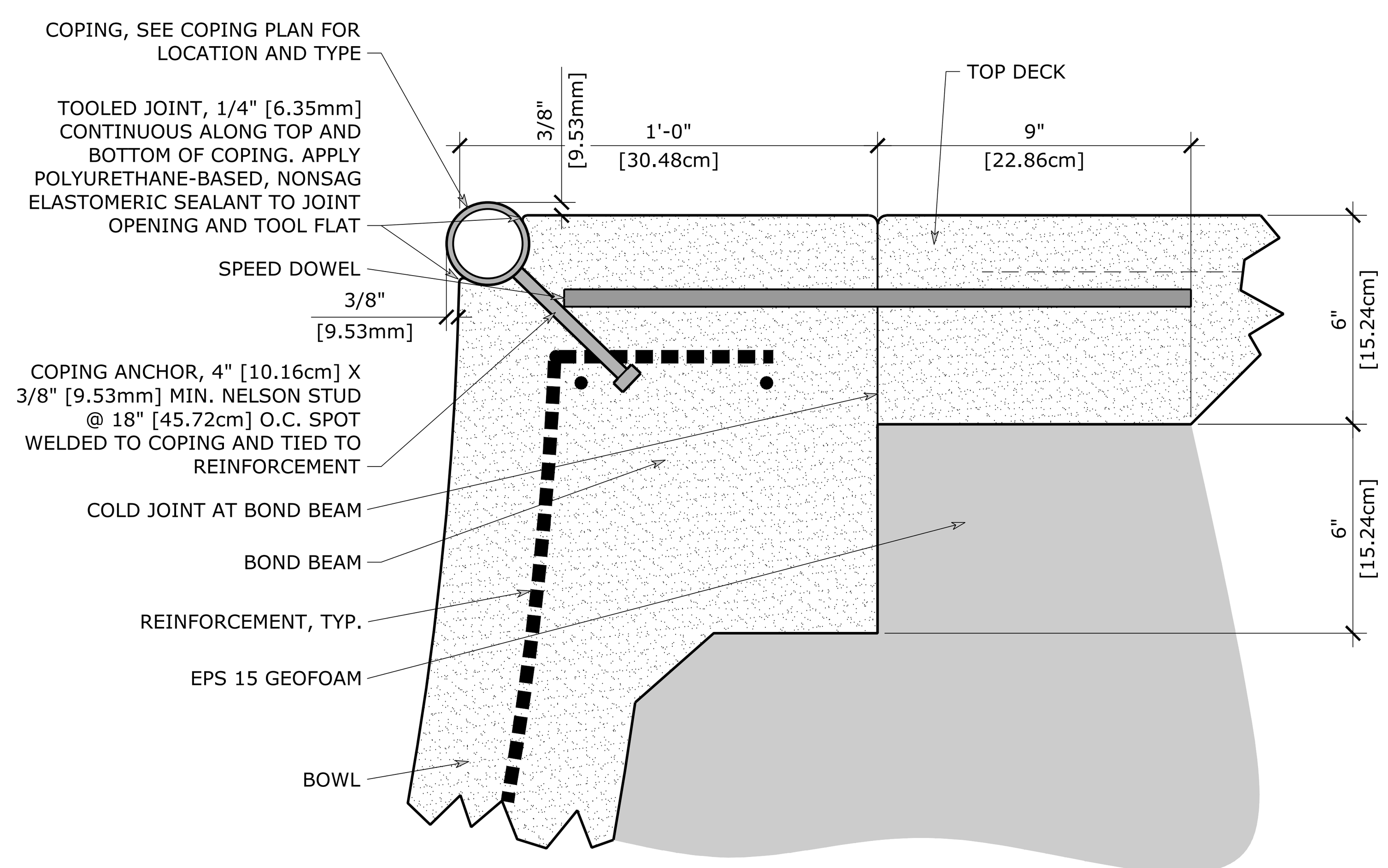


STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

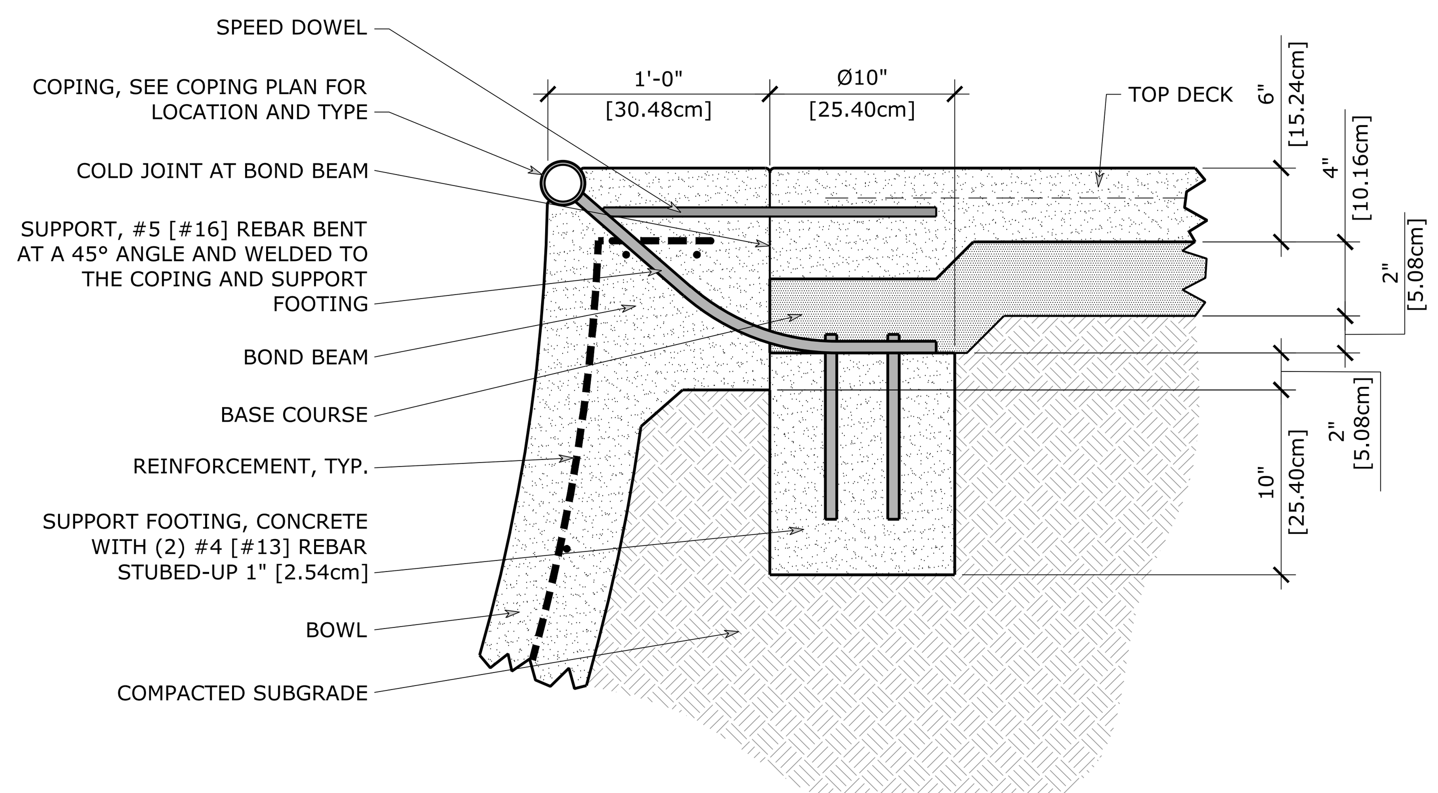
DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
CROSS SECTIONS

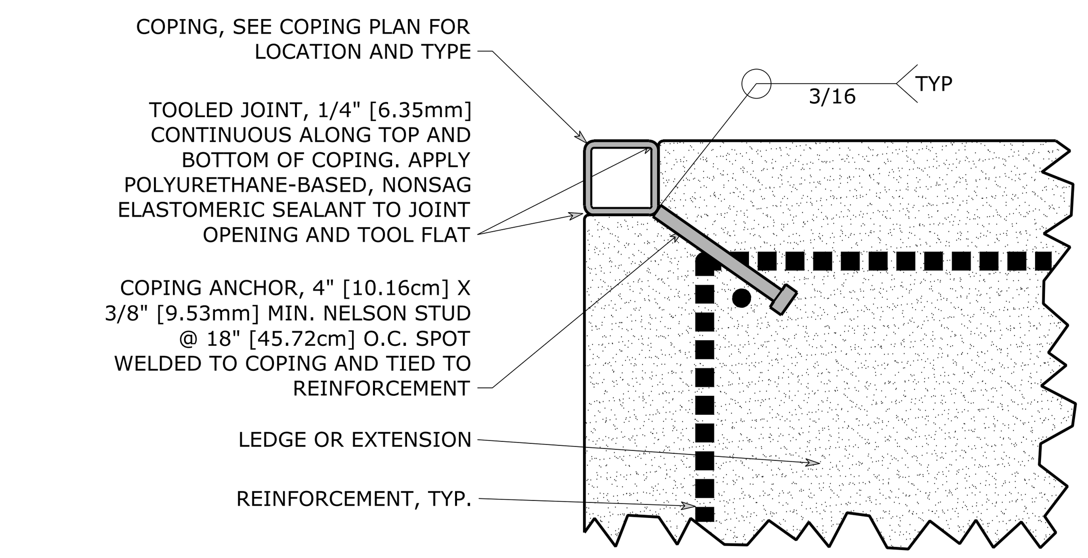
SHEET::
AS-12
SKATE PARK



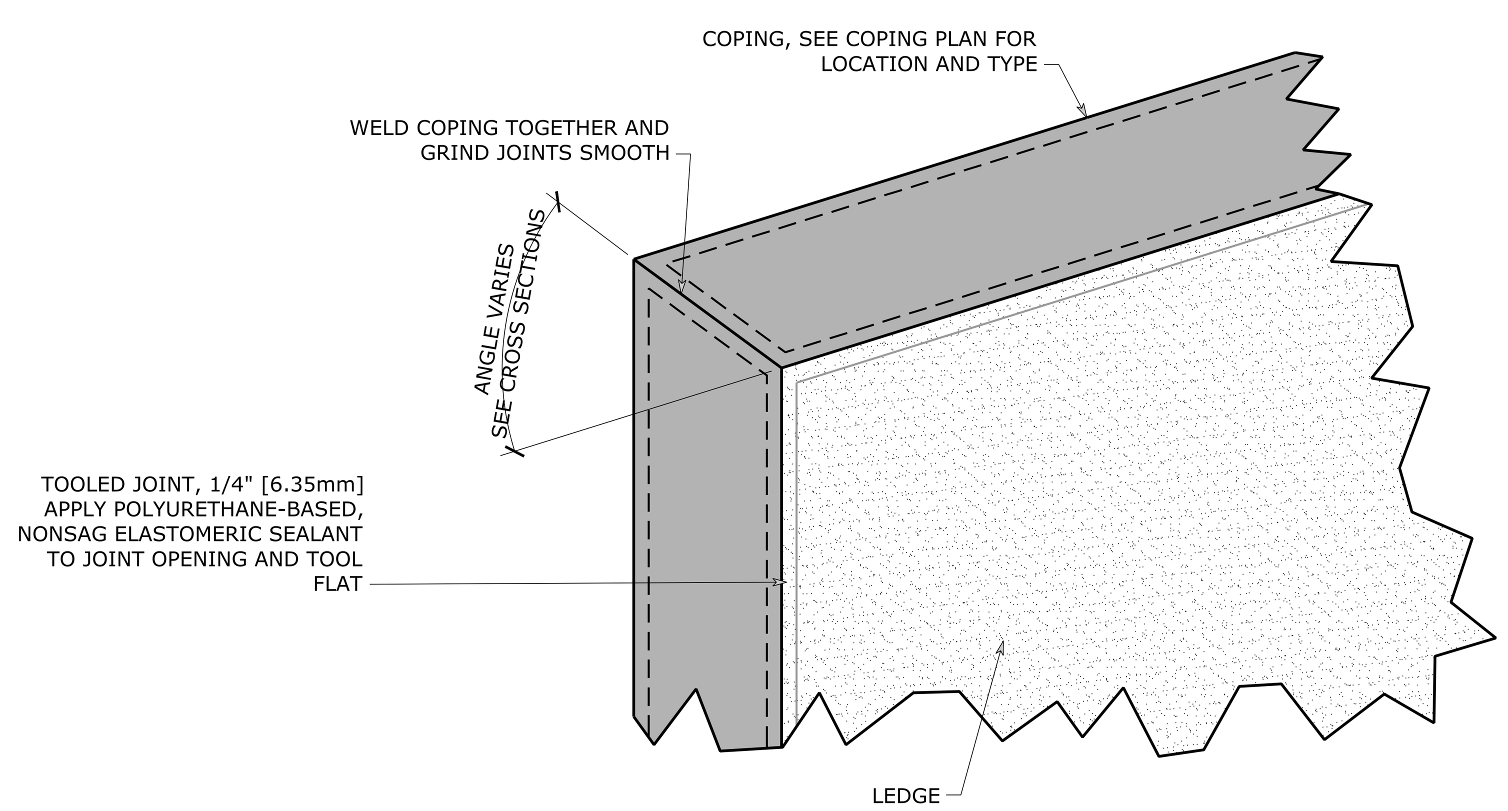
1 STEEL COPING - ROUND
SCALE: 3" = 1'-0"



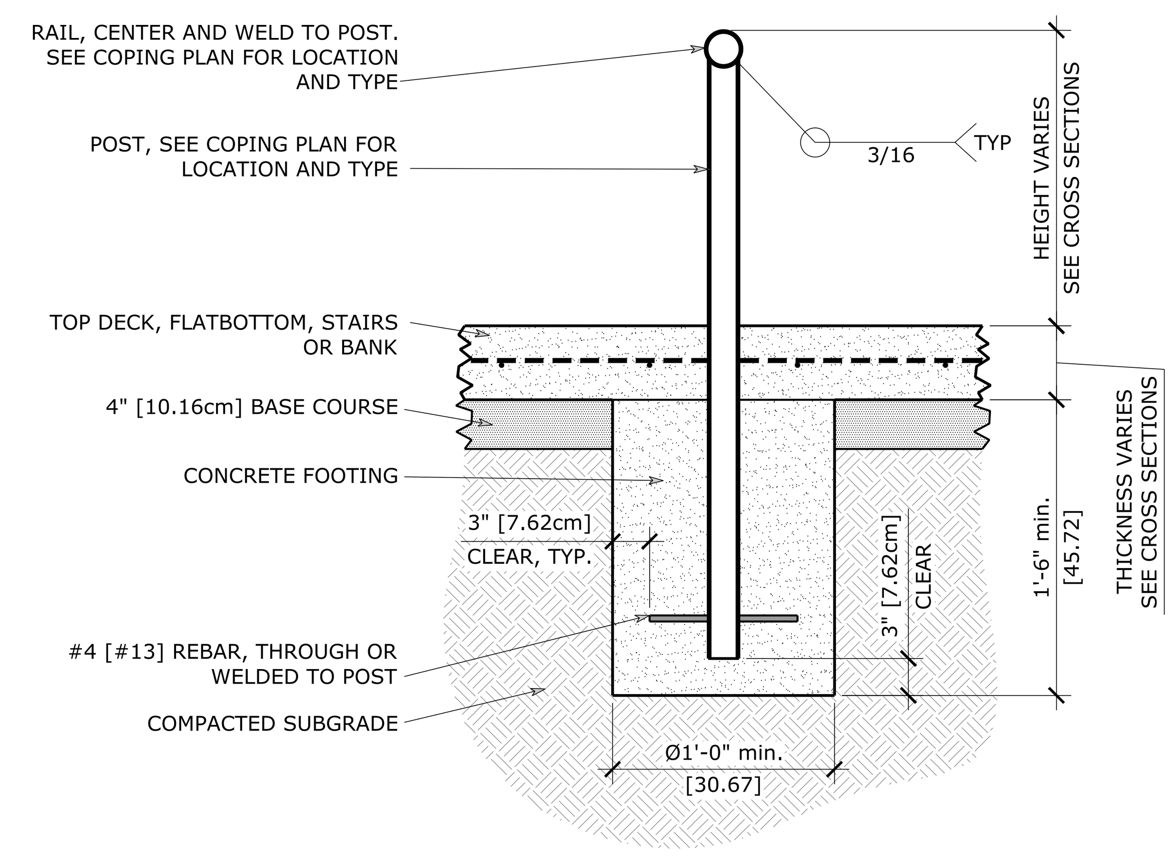
2 COPING CONSTRUCTION SUPPORT
SCALE: 1-1/2" = 1'-0"



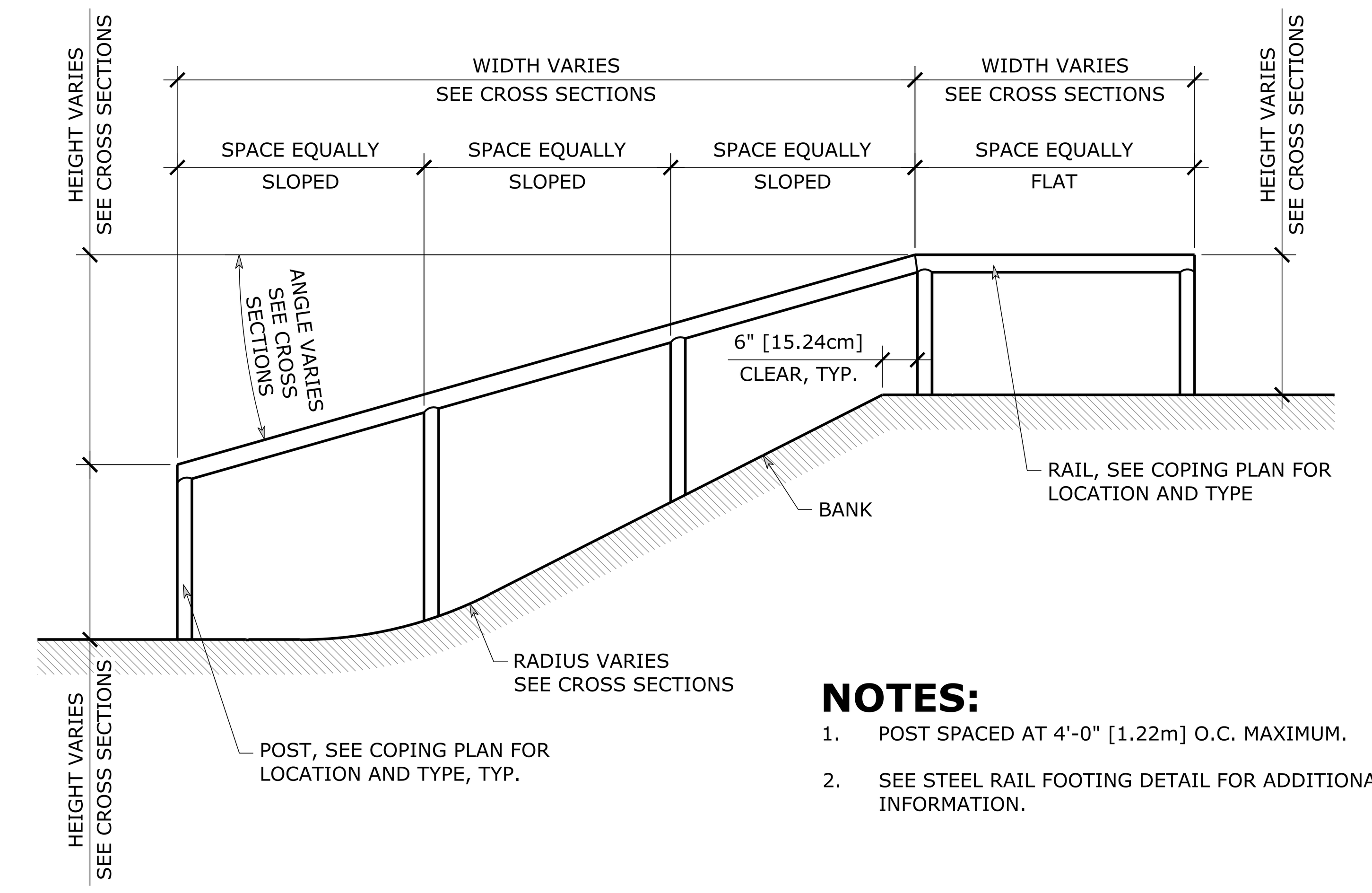
3 STEEL COPING - SQUARE
SCALE: 3" = 1'-0"



4 HUBBA LEDGE COPING
SCALE: 6" = 1'-0"

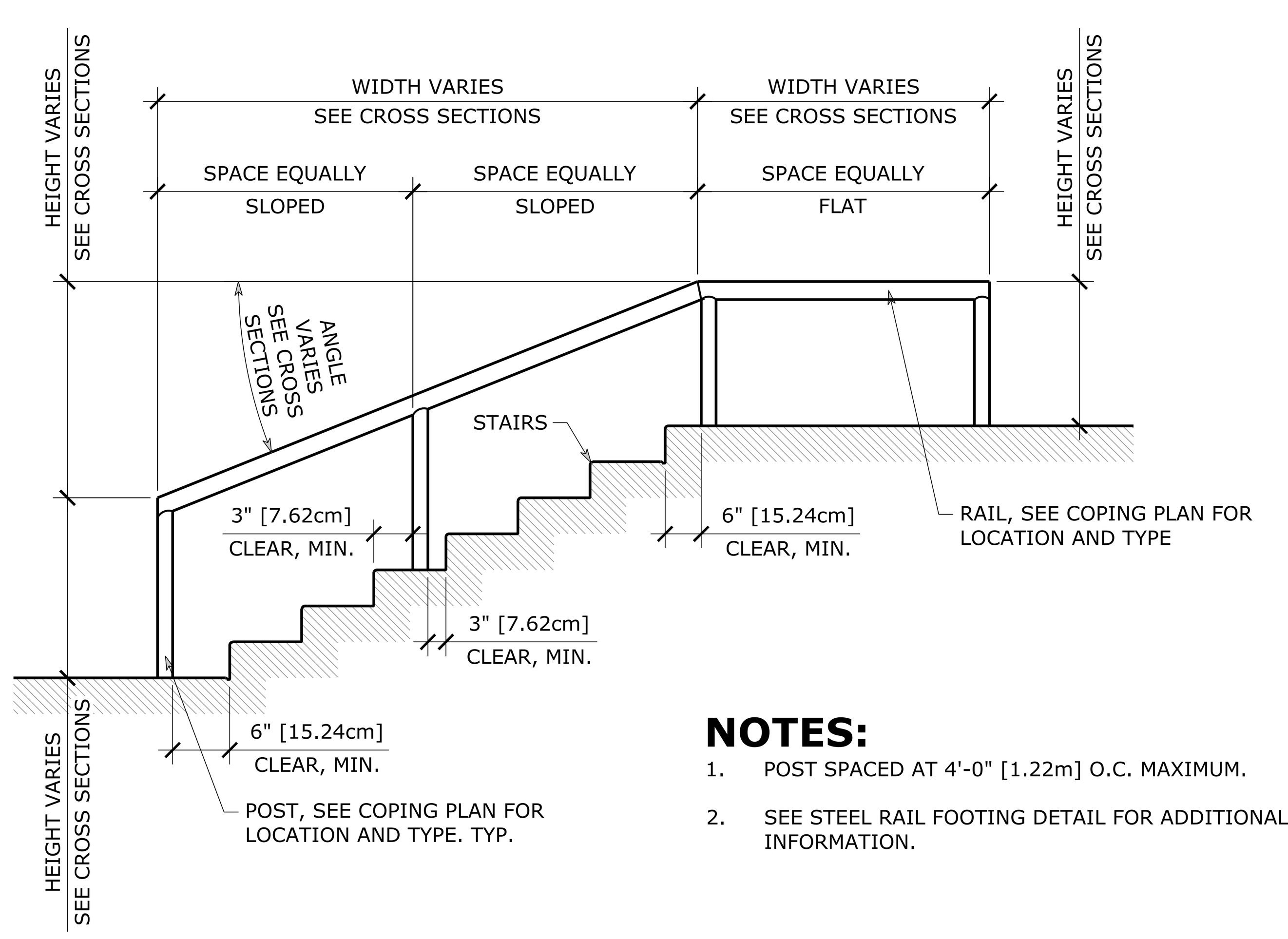


5 STEEL RAIL FOOTING
SCALE: 1" = 1'-0"



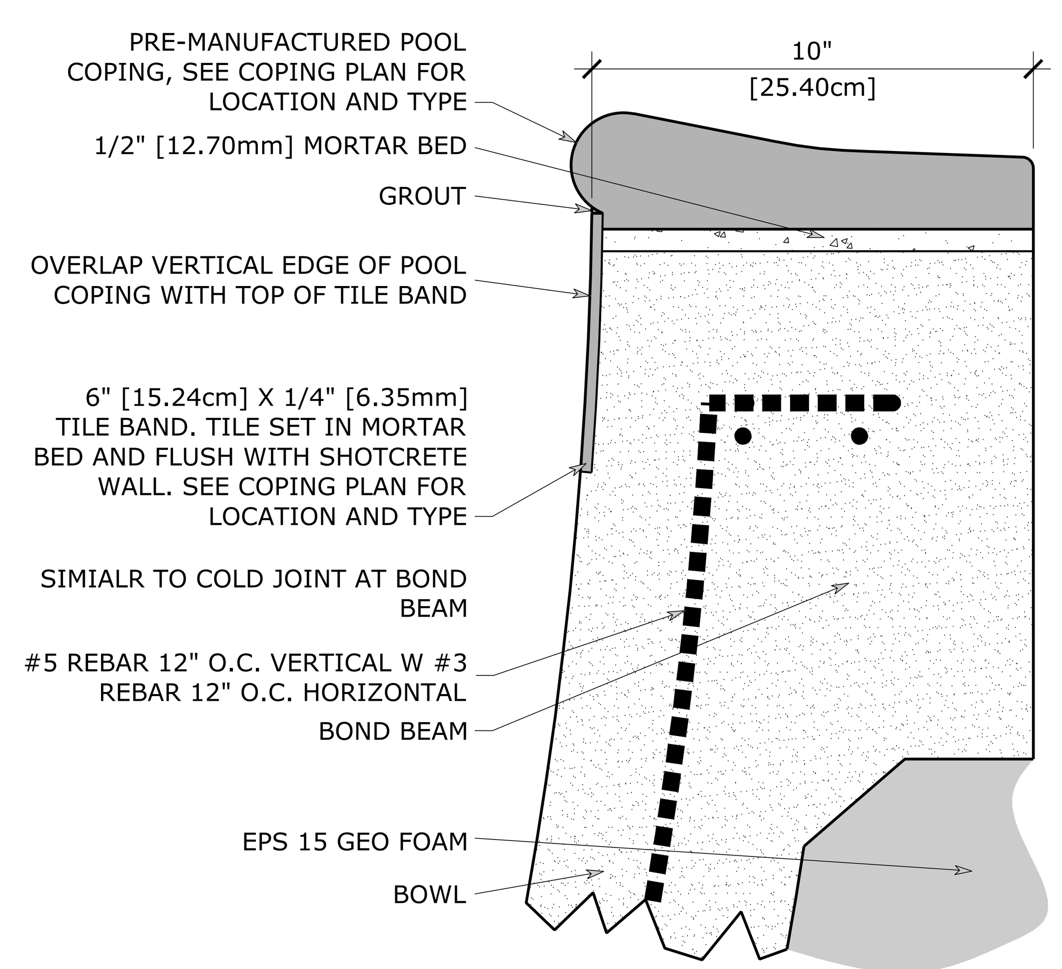
NOTES:
1. POST SPACED AT 4'-0" [1.22m] O.C. MAXIMUM.
2. SEE STEEL RAIL FOOTING DETAIL FOR ADDITIONAL INFORMATION.

6 STEEL RAIL IN BANK
SCALE: 1/2" = 1'-0"

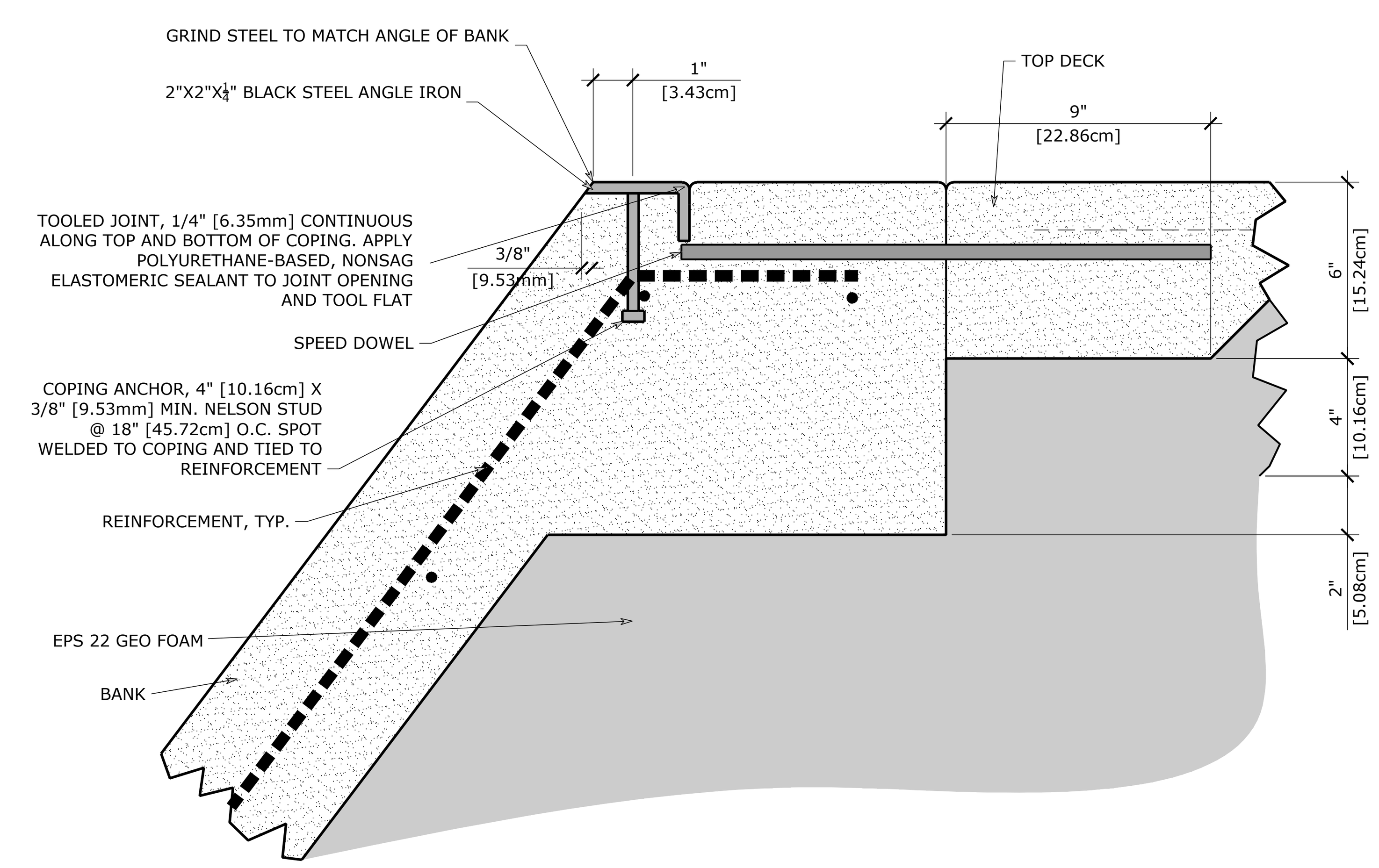


NOTES:
1. POST SPACED AT 4'-0" [1.22m] O.C. MAXIMUM.
2. SEE STEEL RAIL FOOTING DETAIL FOR ADDITIONAL INFORMATION.

7 STEEL RAIL IN STAIRS
SCALE: 1/2" = 1'-0"



8 POOL COPING AND TILE
SCALE: 3" = 1'-0"



9 COPING - ANGLE IRON
SCALE: N.T.S.

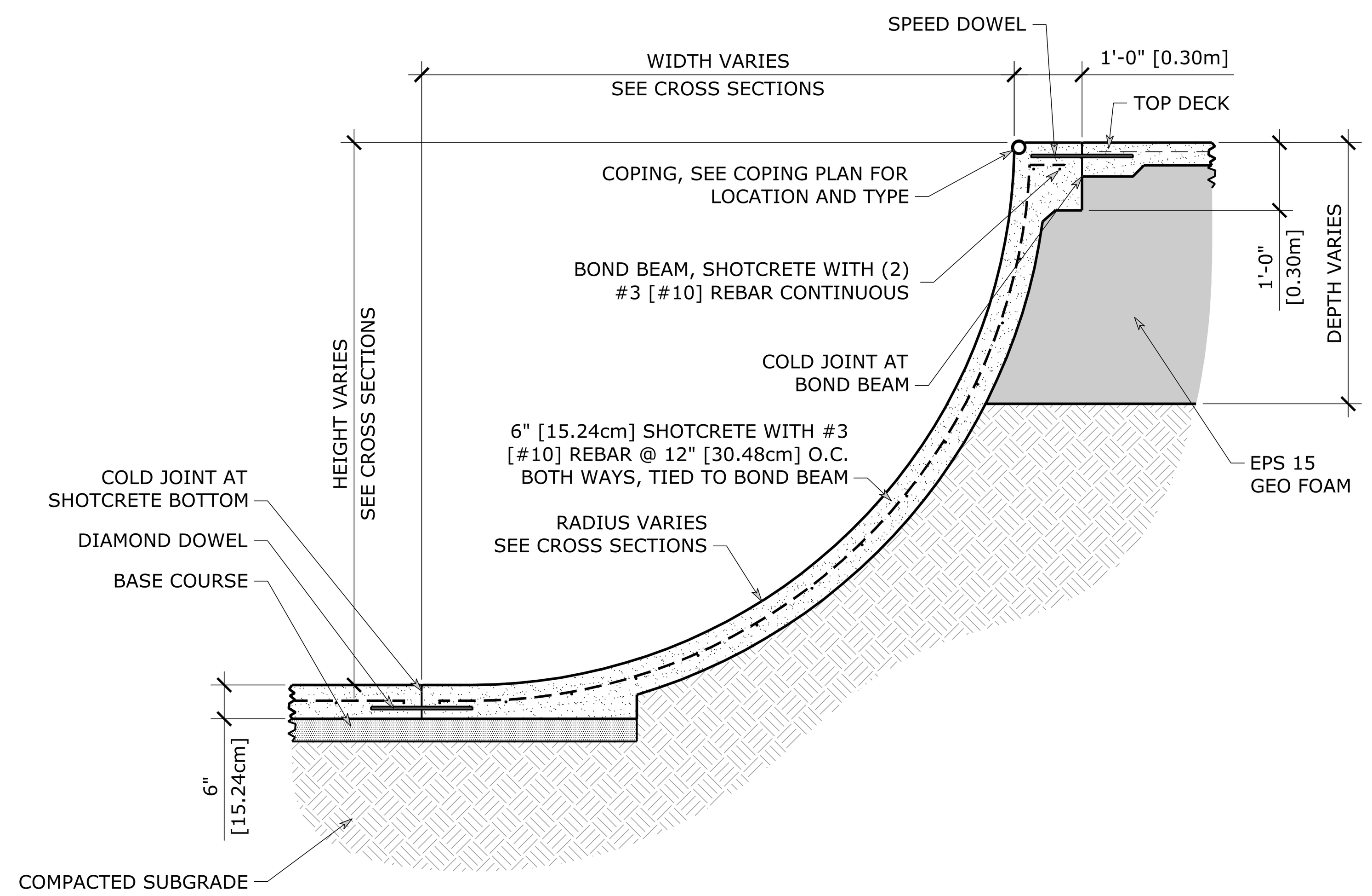
STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

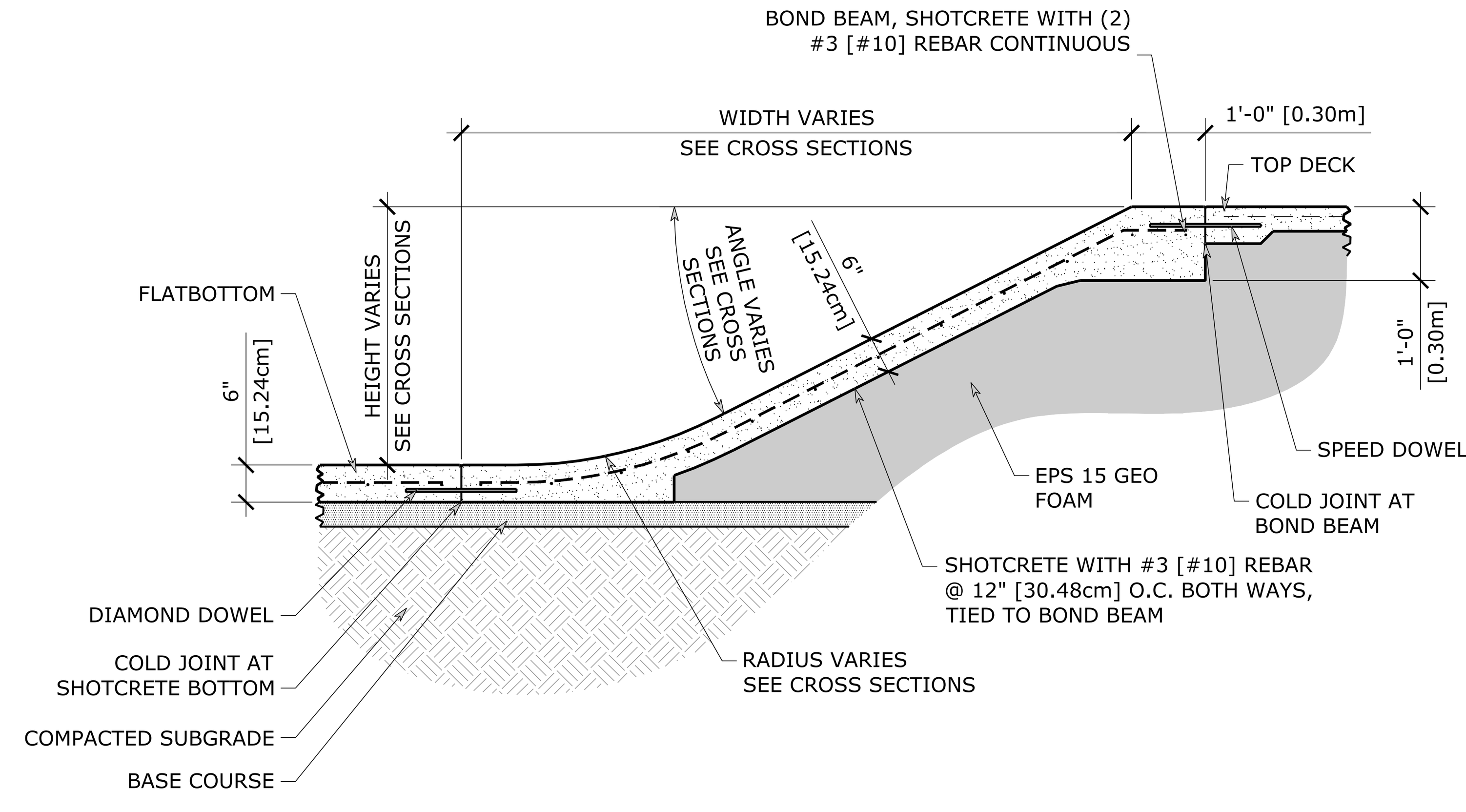
PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: CONSTRUCTION DETAILS

SHEET:: AS-13

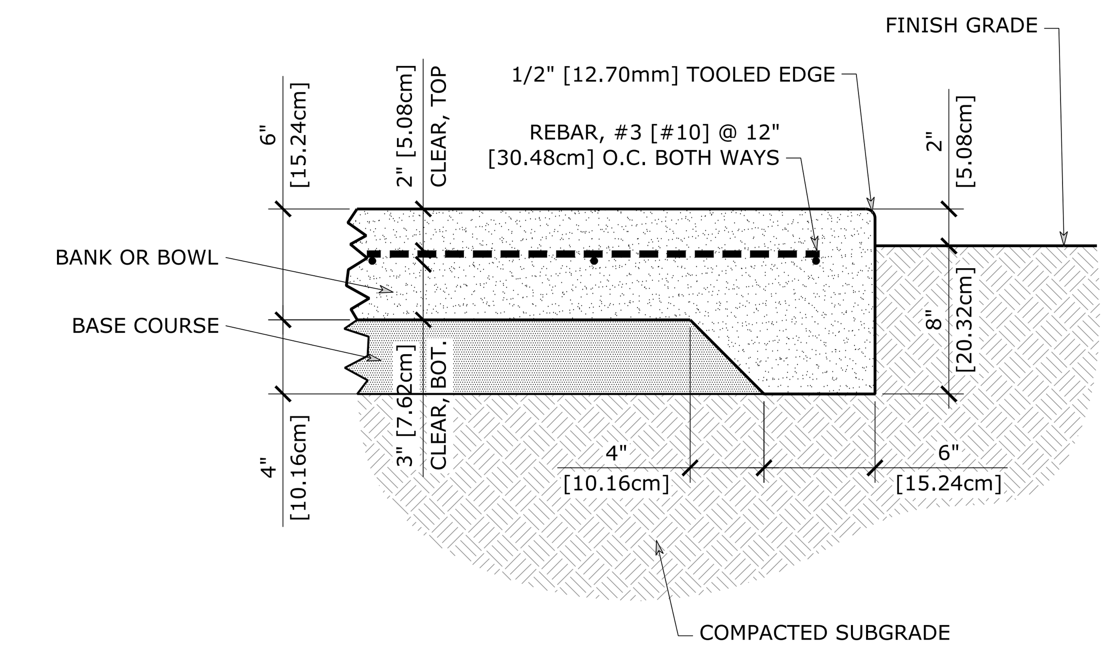
SKATE PARK



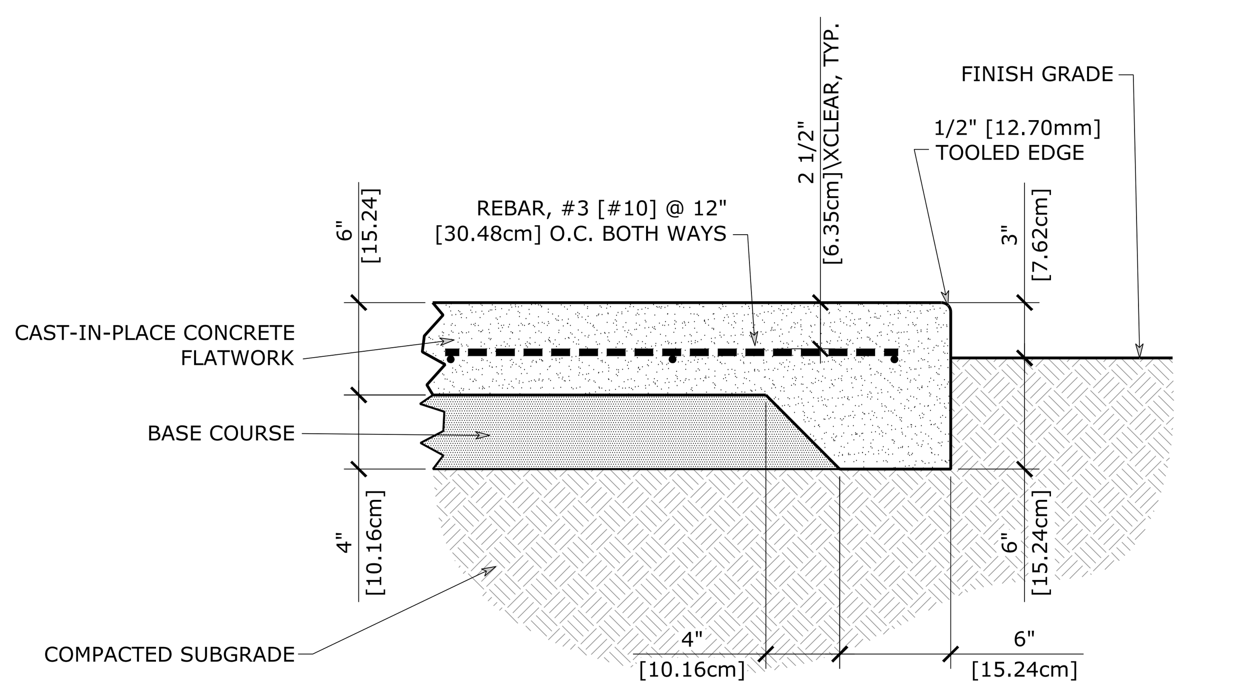
1 SHOTCRETE - BOWL
SCALE: 1/2" = 1'-0"



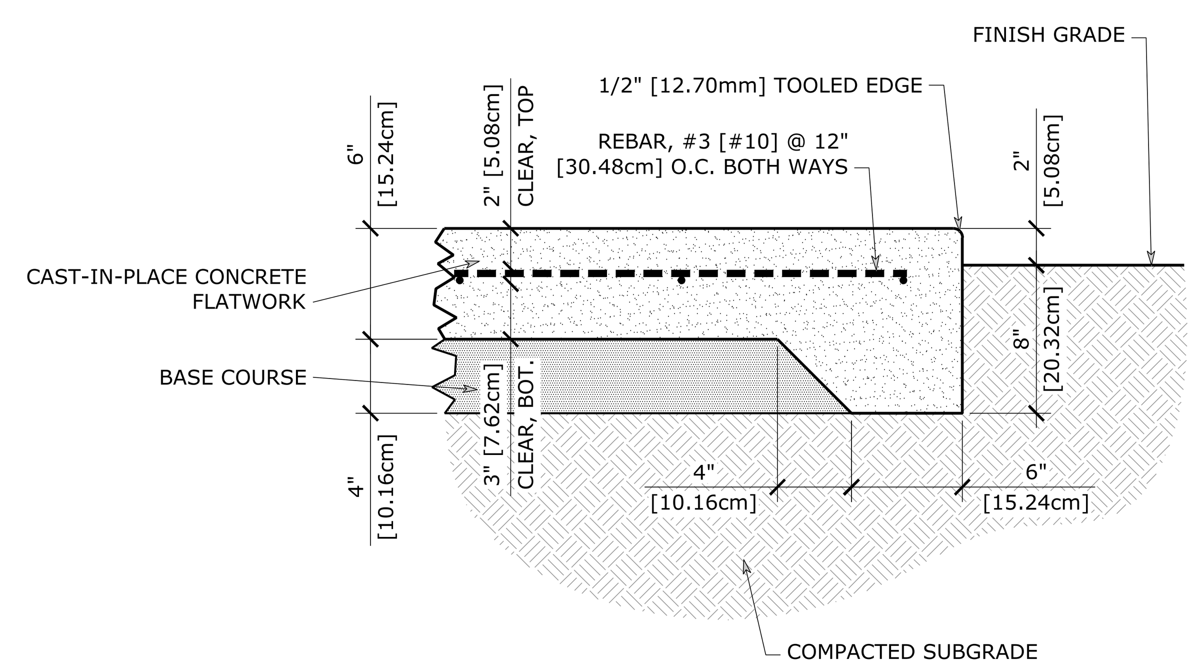
2 SHOTCRETE - BANK
SCALE: 1/2" = 1'-0"



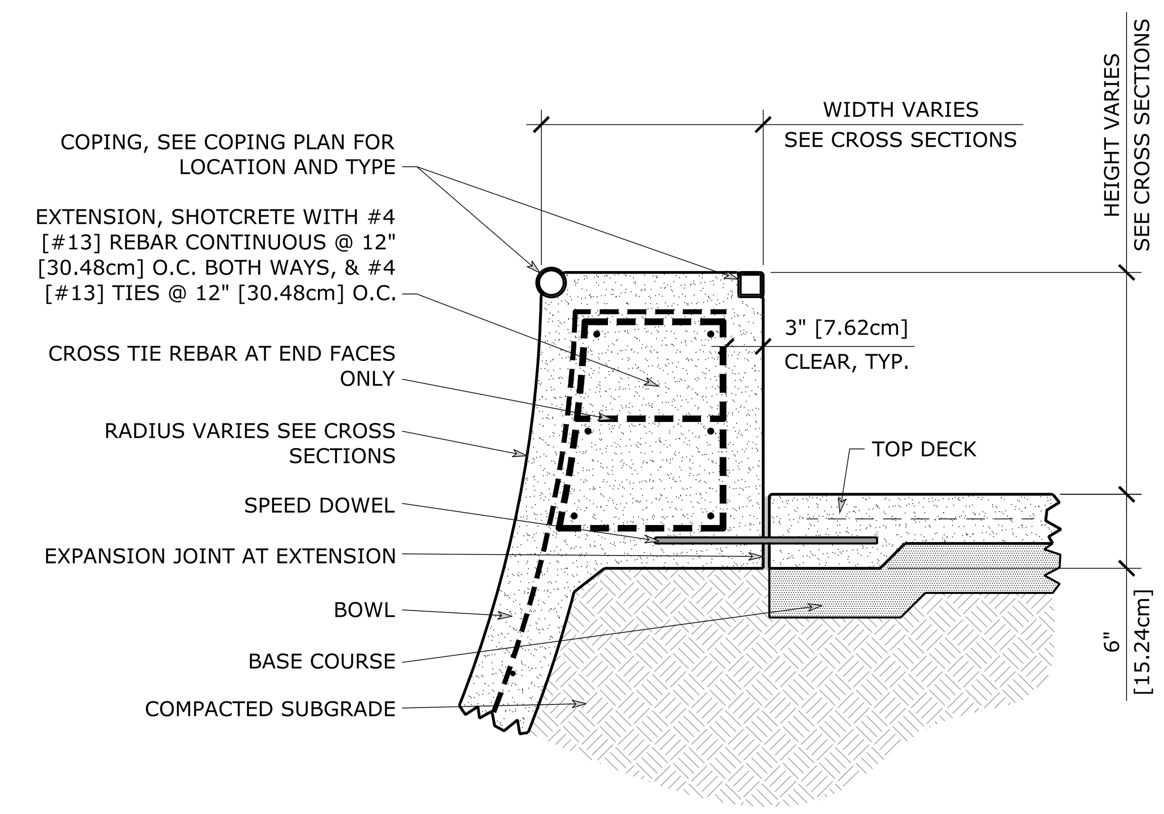
3 SHOTCRETE SECTION
SCALE: 1-1/2" = 1'-0"



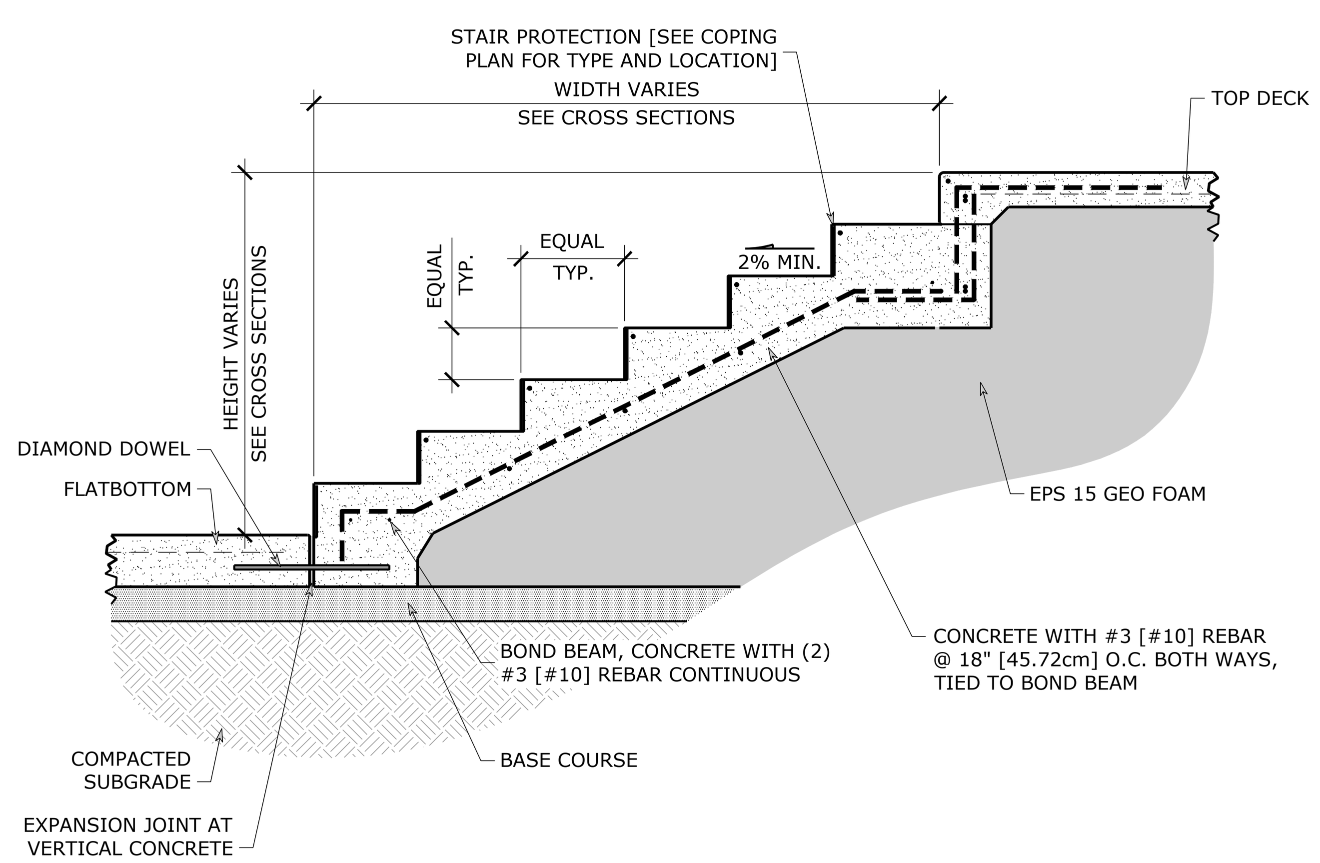
4 CONCRETE TOP DECK SECTION
SCALE: 1-1/2" = 1'-0"



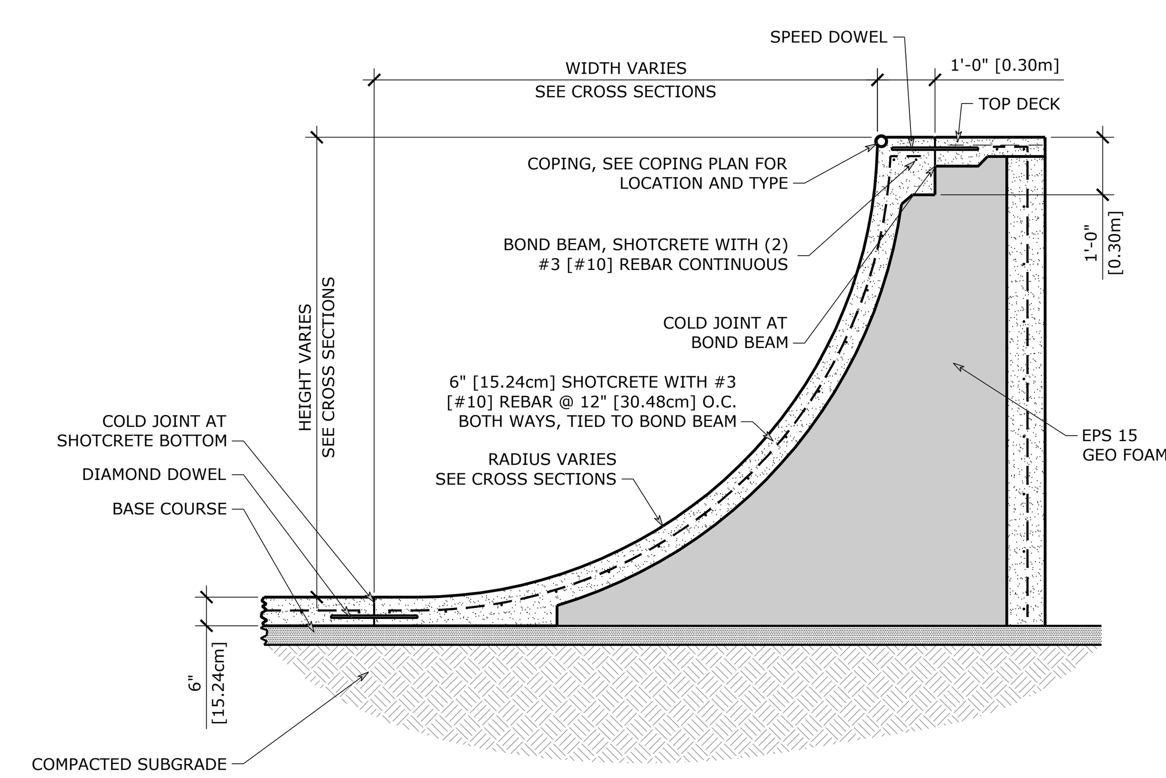
5 CONCRETE FLATBOTTOM SECTION
SCALE: 1-1/2" = 1'-0"



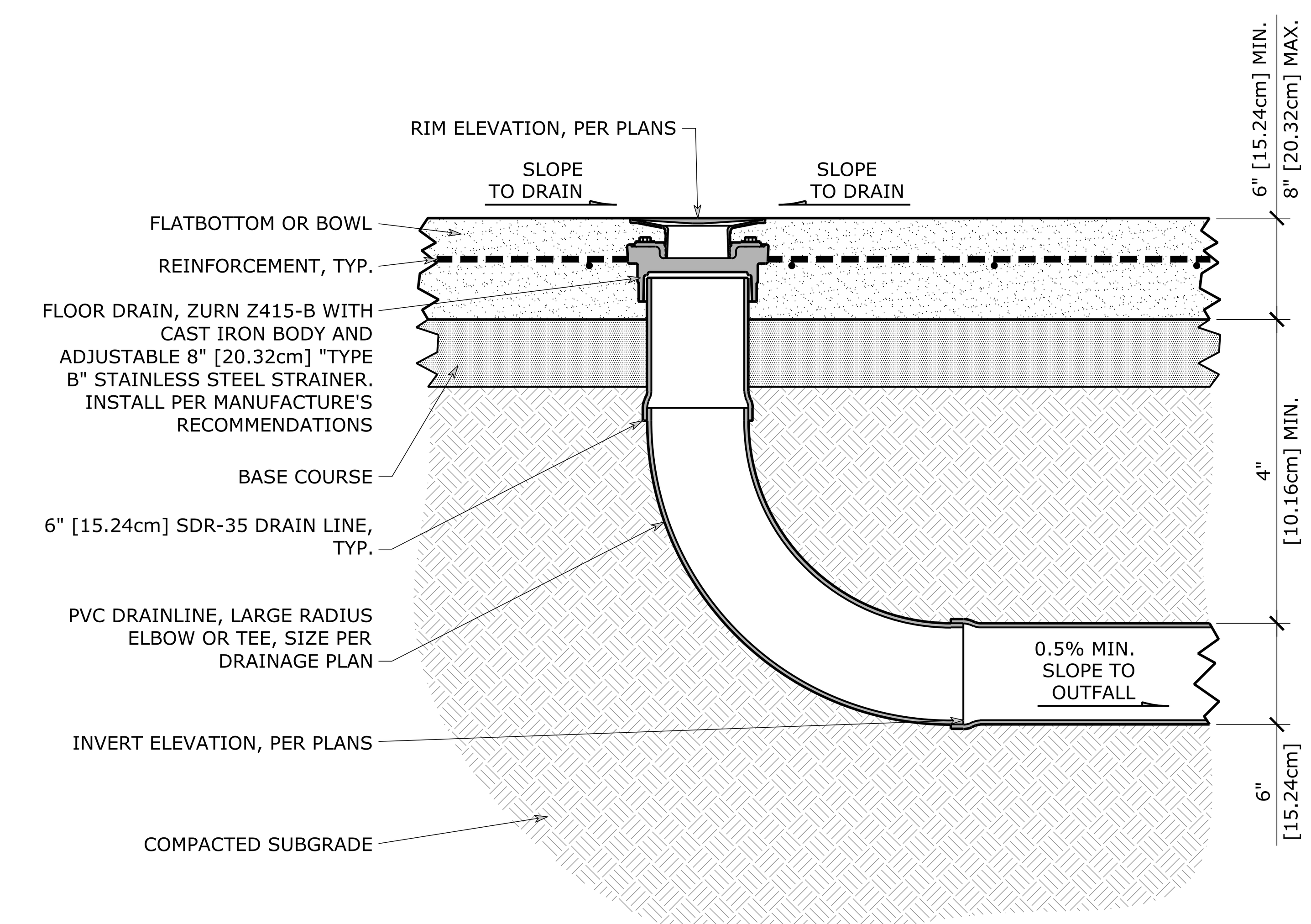
6 SHOTCRETE EXTENSION
SCALE: 1" = 1'-0"



7 CONCRETE STAIRS
SCALE: 1" = 1'-0"



8 SHOTCRETE BOWL
SCALE: 1" = 1'-0"



9 DRAINLINE INLET
SCALE: 1-1/2" = 1'-0"

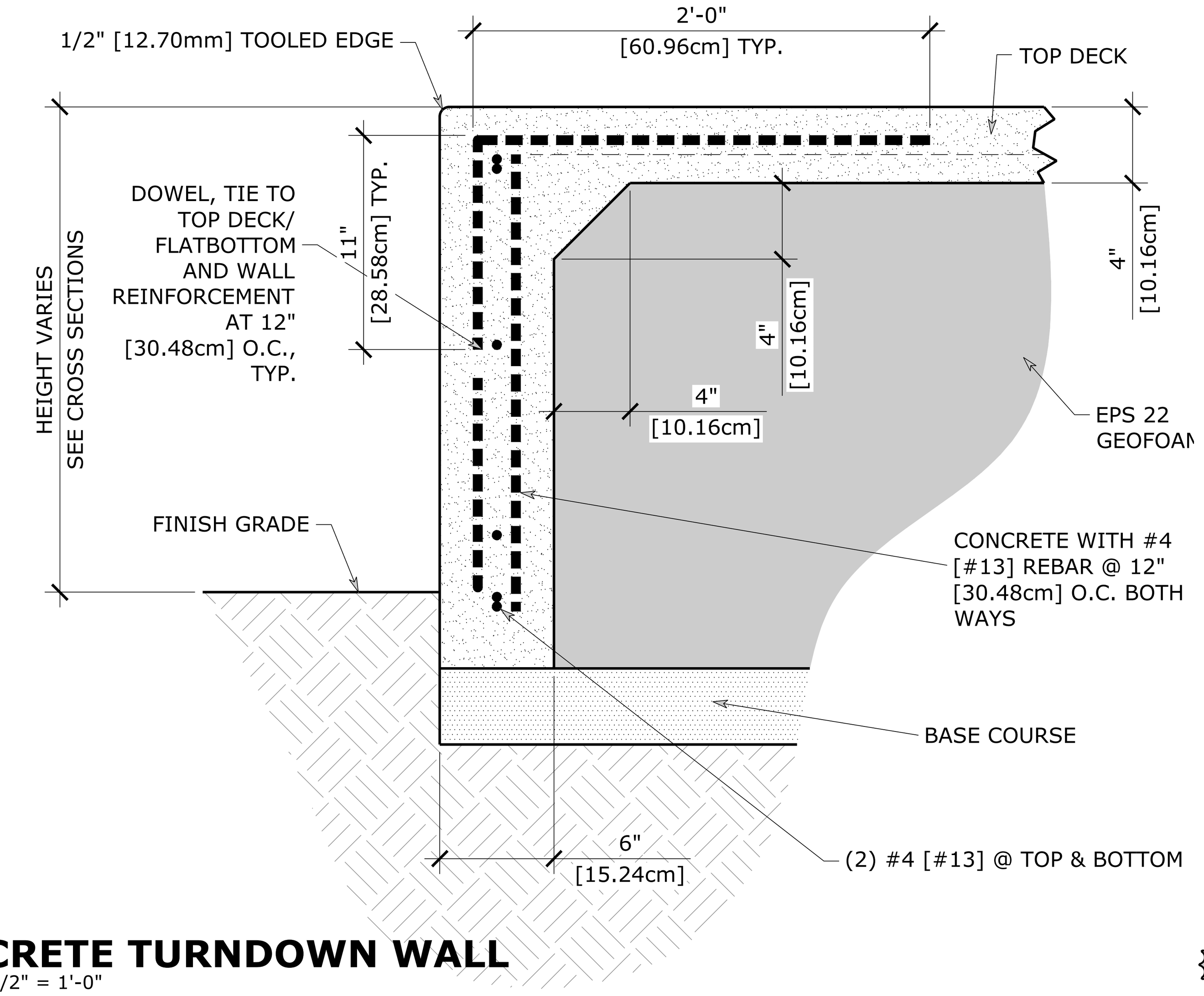
STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED
PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

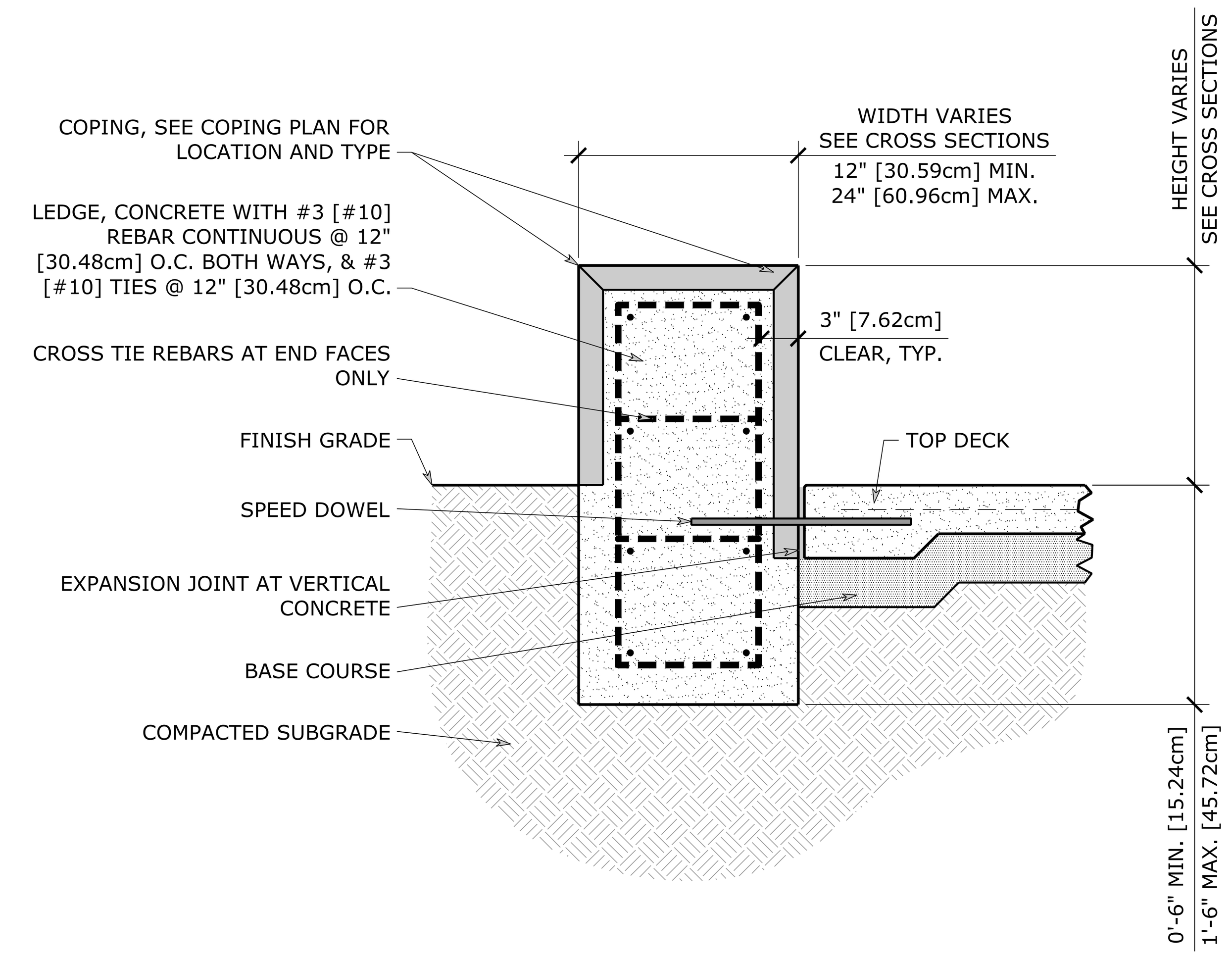
PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
CONSTRUCTION DETAILS

SHEET::
AS-14

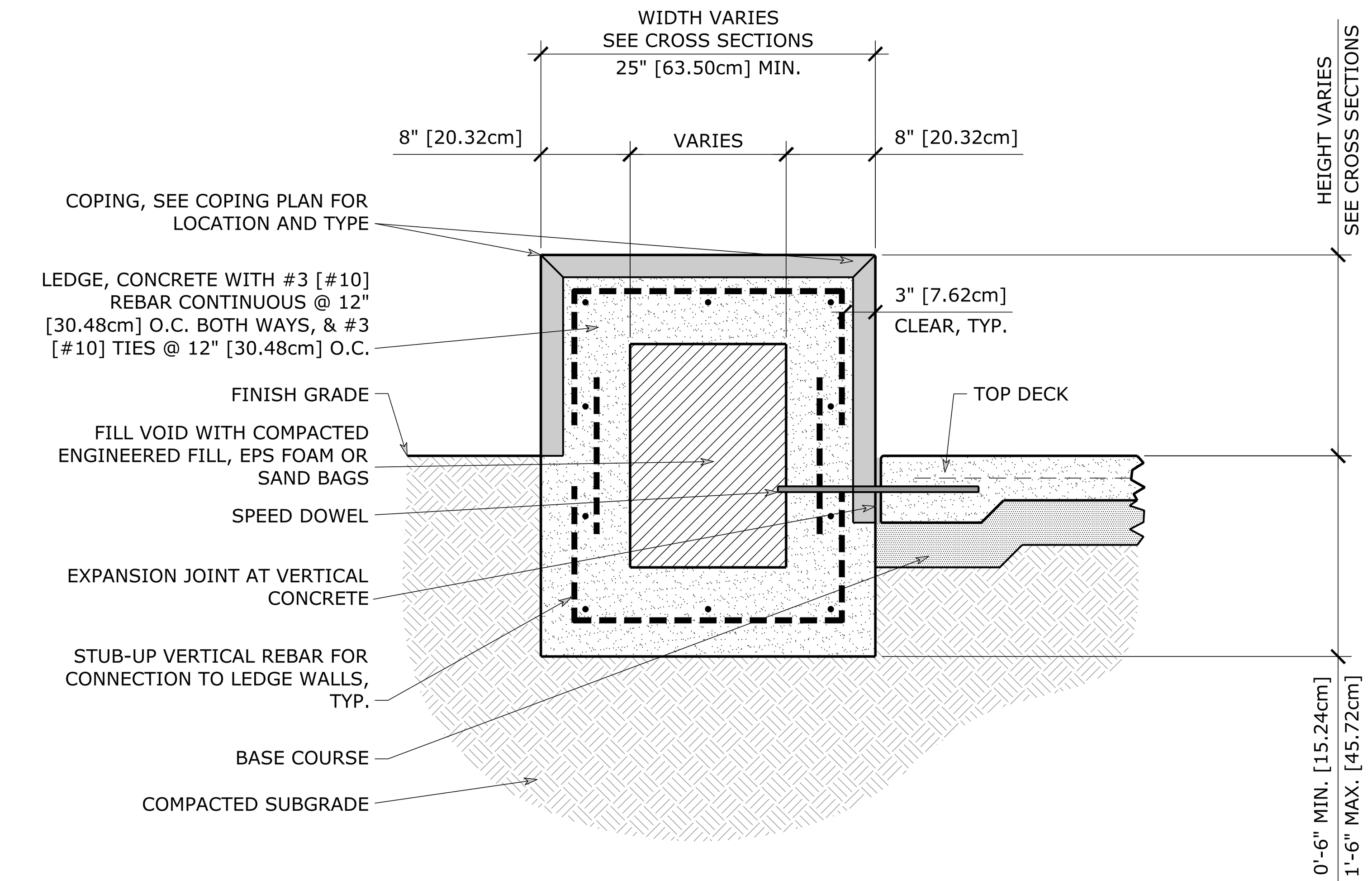
SKATE PARK



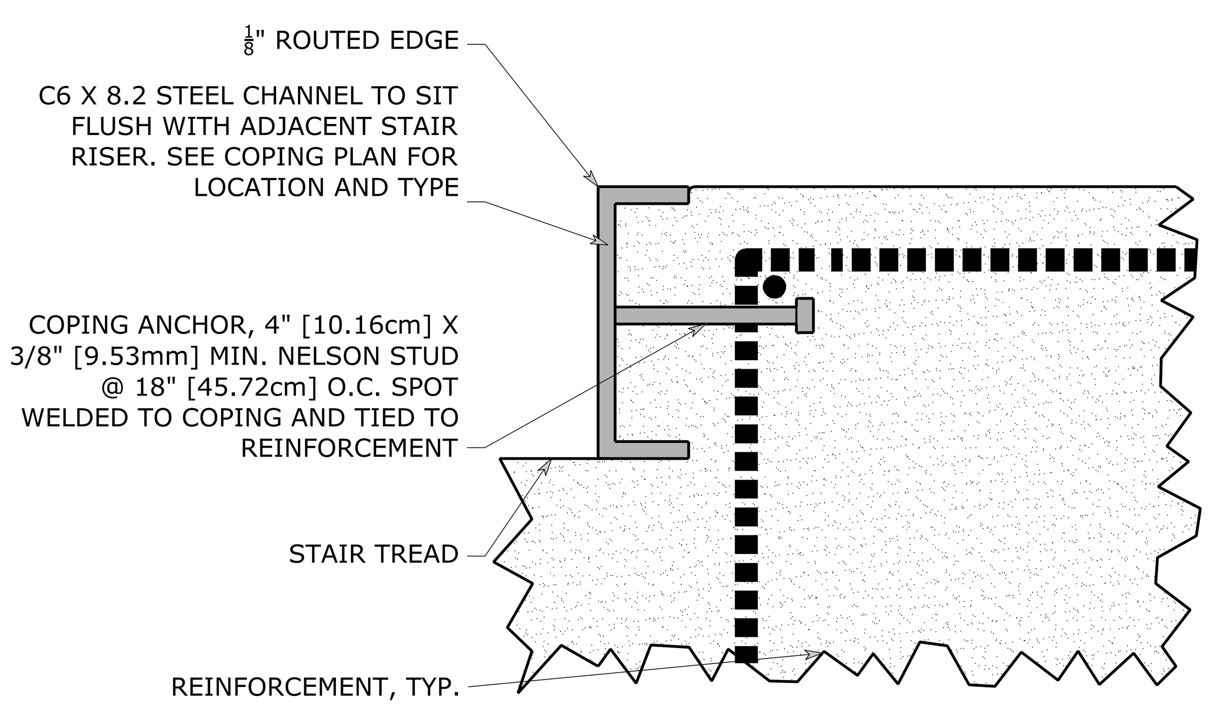
1 CONCRETE TURNDOWN WALL
SCALE: 1-1/2" = 1'-0"



2 CONCRETE GRIND LEDGE - MEDIUM
SCALE: 1" = 1'-0"



3 CONCRETE GRIND LEDGE - LARGE
SCALE: 1" = 1'-0"



4 STAIR COPING - C6 X 8.2 STEEL CHANNEL
SCALE: 3" = 1'-0"

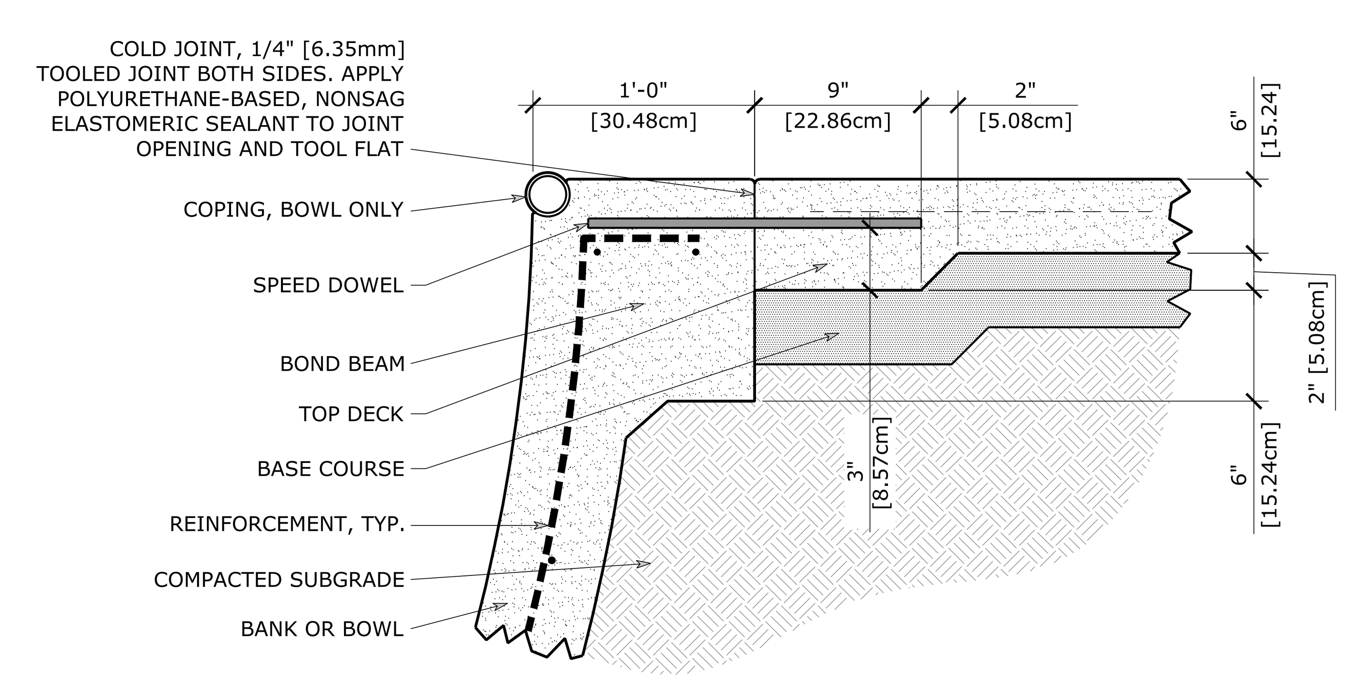
STATE OF NEW HAMPSHIRE
BARRETT CROOK
NO. 17221
LICENSED PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

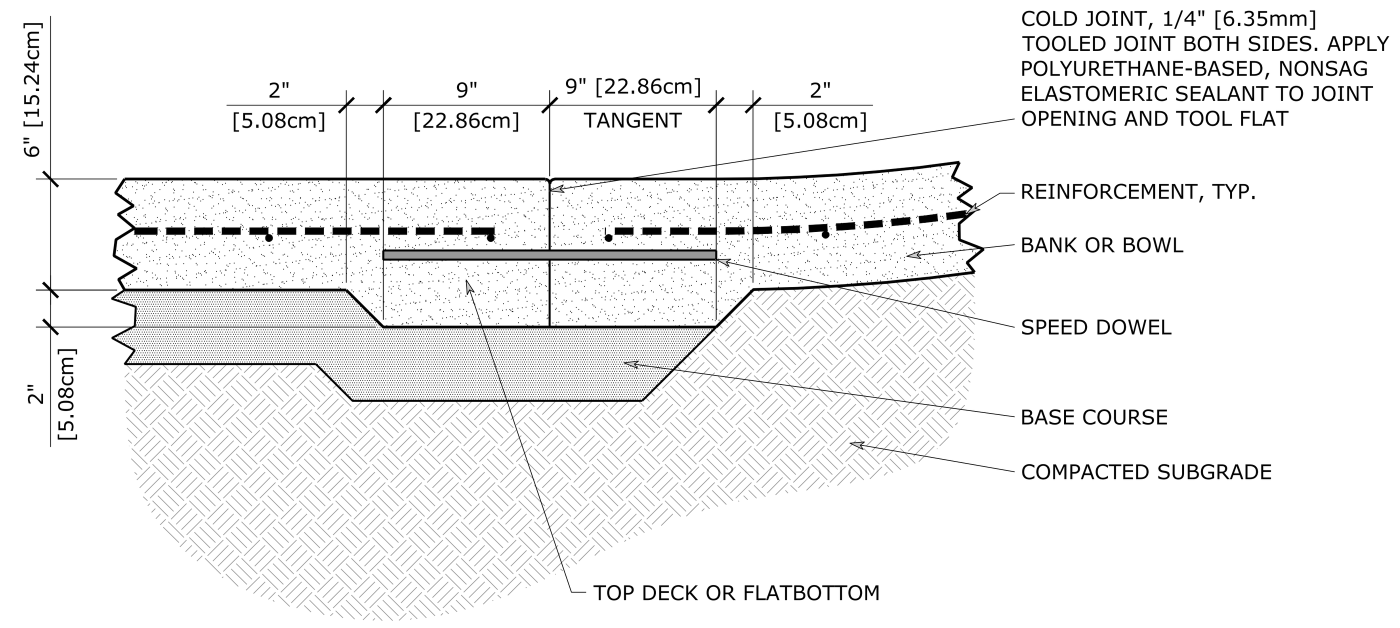
PROJECT::
PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE::
CONSTRUCTION DETAILS

SHEET::
AS-15

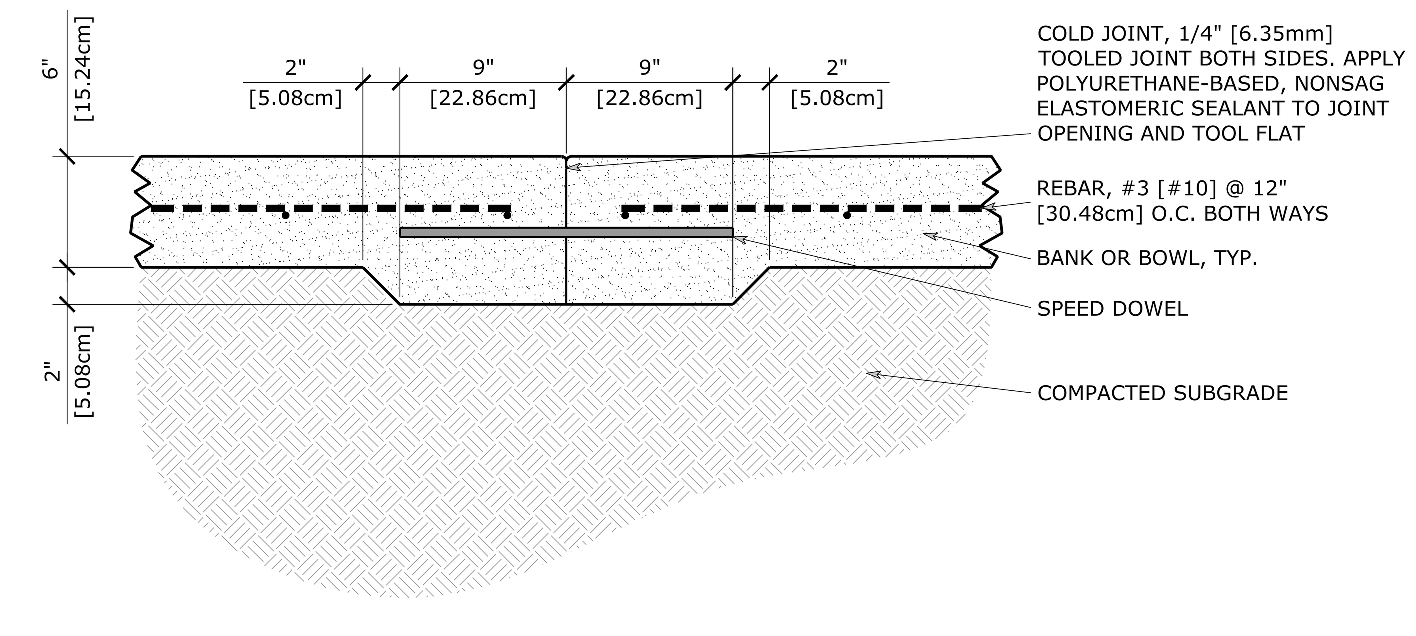
SKATE PARK



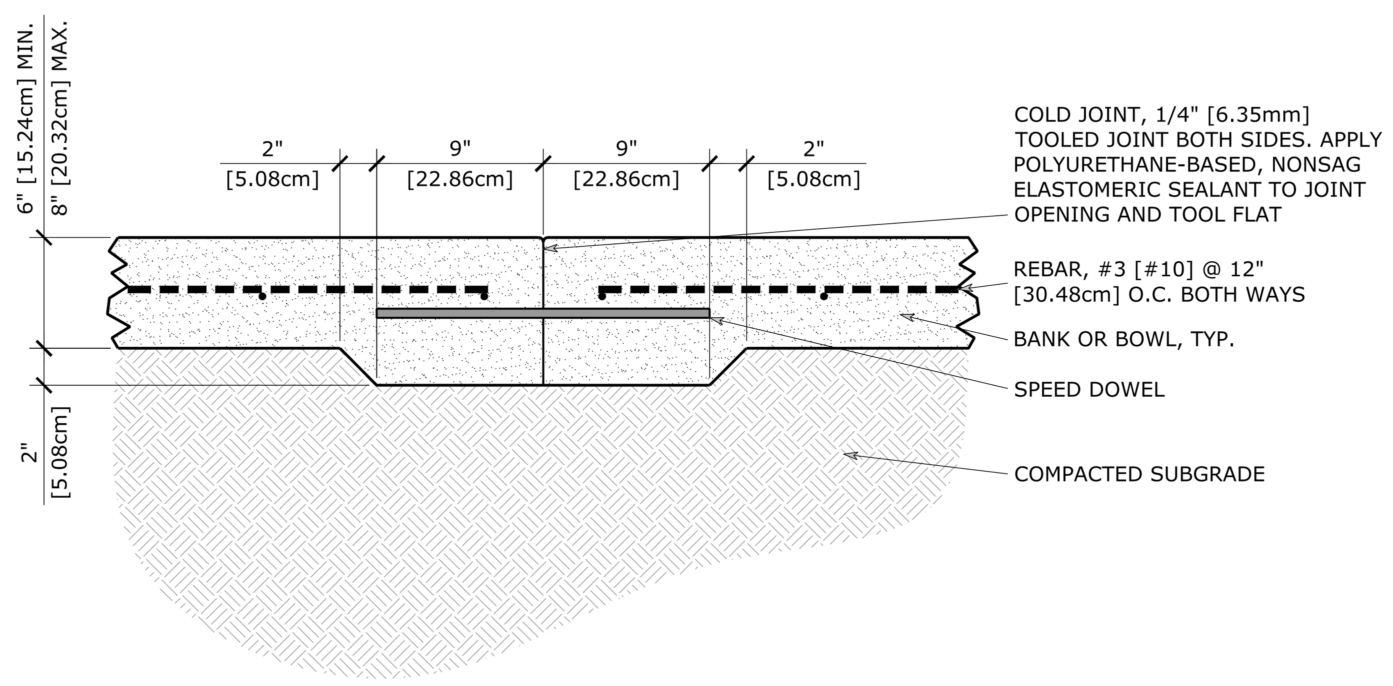
1 COLD JOINT AT BOND BEAM
SCALE: 1-1/2" = 1'-0"



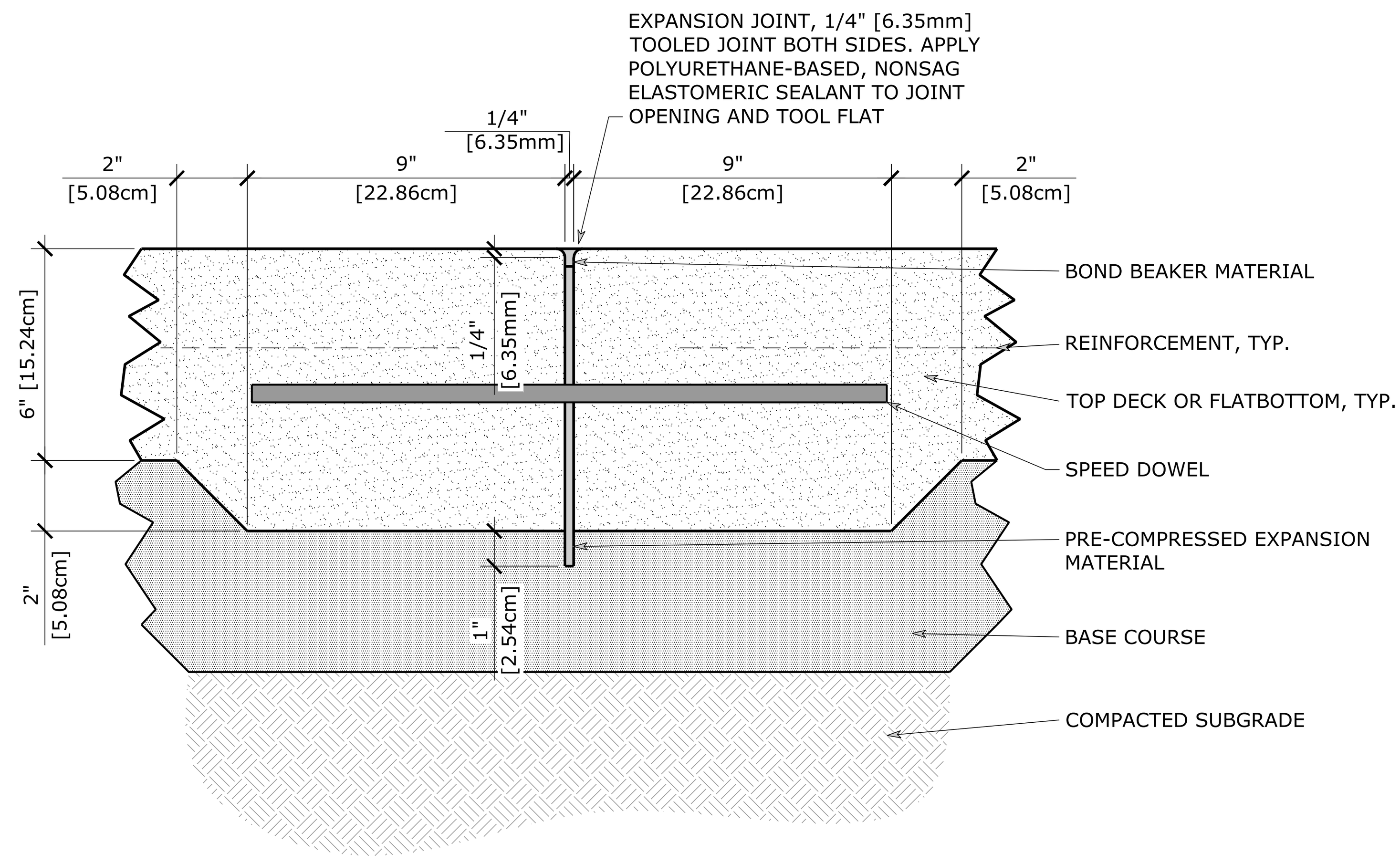
2 COLD JOINT AT SHOTCRETE BOTTOM
SCALE: 1-1/2" = 1'-0"



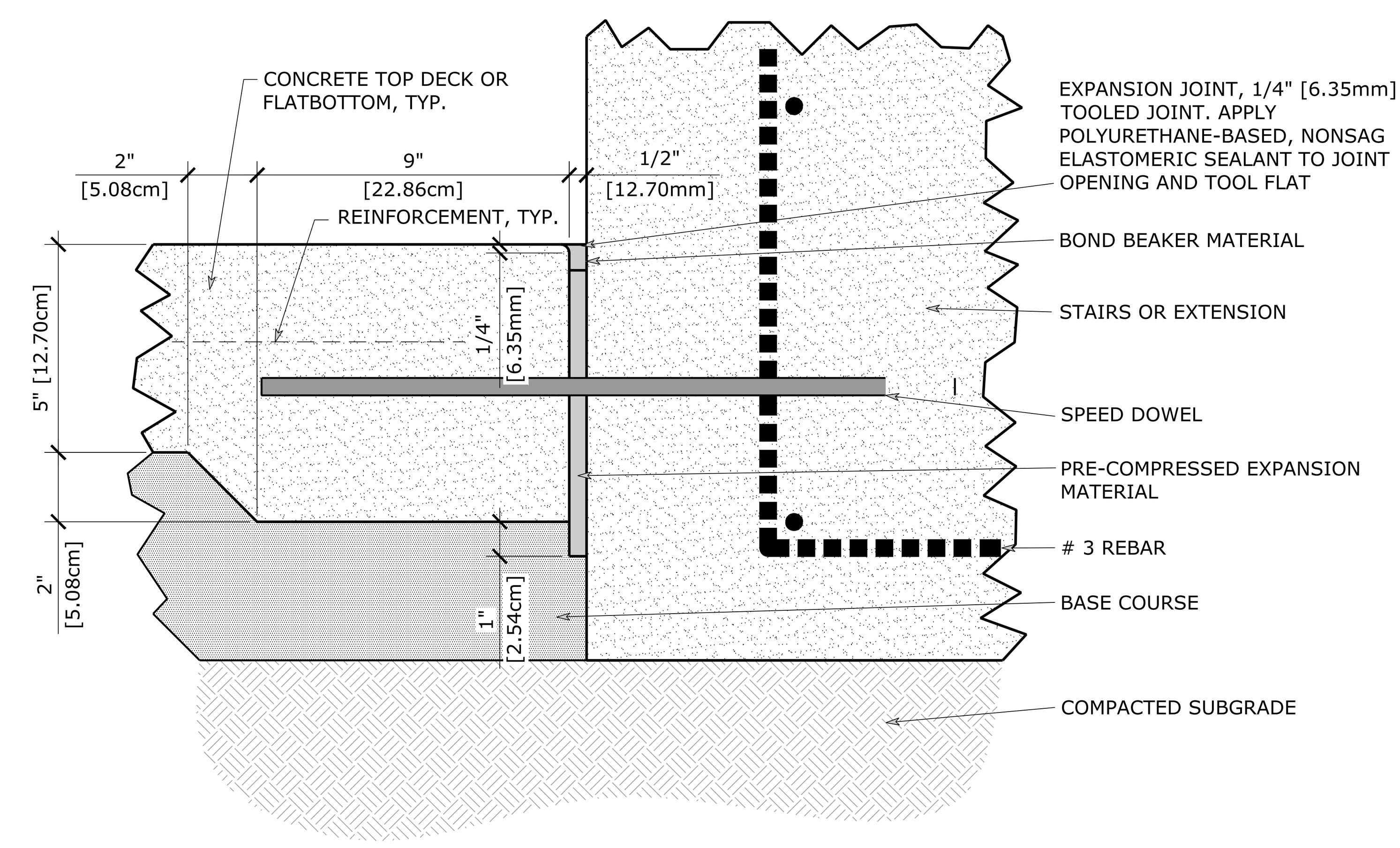
3 COLD JOINT AT MID CONCRETE
SCALE: 1-1/2" = 1'-0"



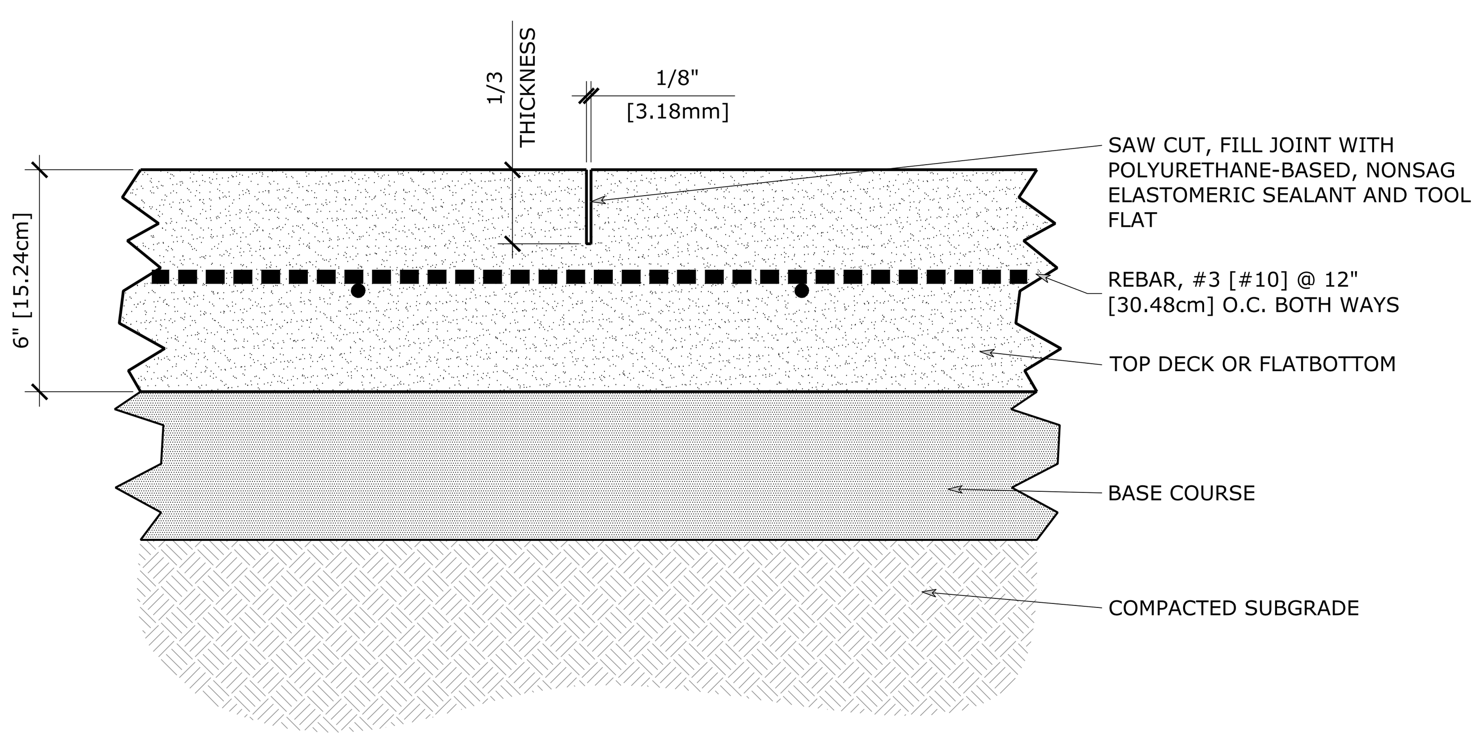
4 COLD JOINT AT MID SHOTCRETE
SCALE: 1-1/2" = 1'-0"



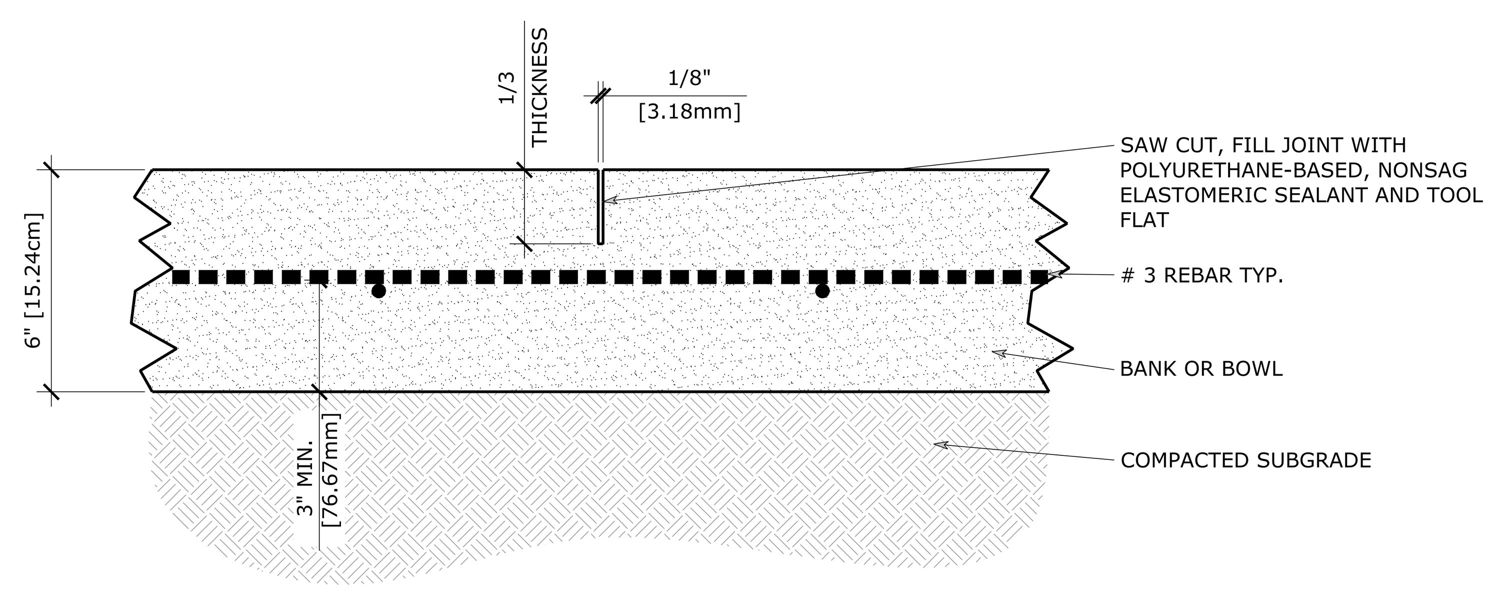
5 EXPANSION JOINT AT MID CONCRETE
SCALE: 3" = 1'-0"



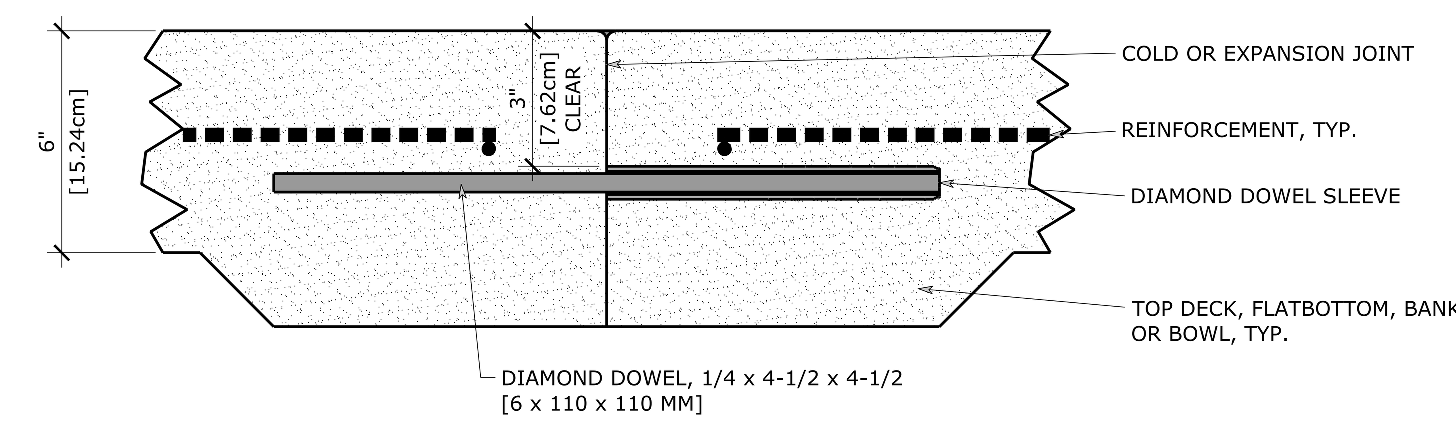
6 EXPANSION JOINT AT VERTICAL CONCRETE
SCALE: 3" = 1'-0"



7 SAWCUT JOINT AT MID CONCRETE
SCALE: 3" = 1'-0"



8 SAWCUT JOINT AT MID SHOTCRETE
SCALE: 3" = 1'-0"



NOTES:
1. SPEED DOWELS SHALL BE LOCATED AT 1'-6" [0.46m] O.C. ALONG JOINT.

9 SPEED DOWEL
SCALE: 3" = 1'-0"

STATE OF NEW HAMPSHIRE
BARRETT C. CROOK
NO. 17221
LICENSED PROFESSIONAL ENGINEER

DESIGNED:: PILLAR TEAM
DRAWN:: PILLAR TEAM
PROJECT #:: 20-024
DATE:: 02/15/23

PROJECT:: PORTSMOUTH SKATEPARK
PORTSMOUTH, NEW HAMPSHIRE
SHEET TITLE:: CONSTRUCTION DETAILS

SHEET:: AS-16

SKATE PARK