

EDUCATION CENTER AND PAVILION FOR THE ROGER WILLIAMS PARK ZOO

PROVIDENCE, RHODE ISLAND



City of Providence
Minor Subdivision or Minor Land Development Project
Final Approval

Project Address: 1000 ELMWOOD AVE

Project Number: 25-015M1

Approved pursuant to the City of Providence Zoning Ordinance and
Land Development and Subdivision Review Regulations.

[Signature] 4/25/25
Administrative Officer Date
Department- of Planning & Development

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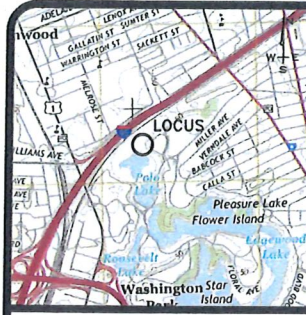
SACCOCCIO & ASSOCIATES, INC.
1085 PARK AVENUE CRANSTON, RI 02910

Garofalo & Associates, Inc.
CIVIL ENGINEERING & SURVEYING

C.A.Pretzer Associates Inc.
STRUCTURAL

Engineering Design Services
MECHANICAL, ELECTRICAL, PLUMBING
AND FIRE PROTECTION ENGINEERS

ISSUED FOR BID
AUGUST 19, 2024



LOCUS MAP
N.T.S.

NOTE:

1. THE EXISTING CONDITIONS SHOWN WERE PROVIDED BY THE ROGER WILLIAMS PARK ZOO FOR USE IN THE PROJECT DESIGN AND ARE BASED ON DRAWINGS PREPARED BY BERKSHIRE DESIGN GROUP, ET. AL. THE EXISTING MAPPING HAS BEEN SUPPLEMENTED BY LIMITED FIELD "EDITS" BY GAROFALO & ASSOCIATES, BASED ON OBSERVED CONDITIONS IN JULY 2019 AND RECORD PLANS FOR PAST CONSTRUCTION WITHIN AND ADJACENT TO THE WORK ZONE. FIELD SURVEY WAS PERFORMED BY GAROFALO & ASSOCIATES WITHIN THE ZEBRA EXHIBIT IN OCTOBER, 2019 TO SUPPLEMENT THE BASE MAPPING PROVIDED.

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS

DATA ACCUMULATION SURVEY
TOPOGRAPHIC SURVEY ACCURACY

CLASS III
T-2

Approved

APR 25 2025

City of Providence

EXISTING CONDITIONS PLAN
FOR
ROGER WILLIAMS PARK ZOO
EDUCATION CENTER & PAVILION
SITUATED ON
1000 ELMWOOD AVENUE
PROVIDENCE, RI 02907
PREPARED FOR
CITY OF PROVIDENCE

NO.	REVISION	BY	DATE

Drain Invert Table

DI-1 6" HDPE	28.18'
DI-2 12" HDPE	29.30'
DI-3 10" CFP	29.25'
DI-4 12" CFP	29.73'
DI-5 6" CONC	29.68'
DI-6 6" CONC	29.83'
DI-7 12" PVC	41.29'

AP90 Lot 157
60

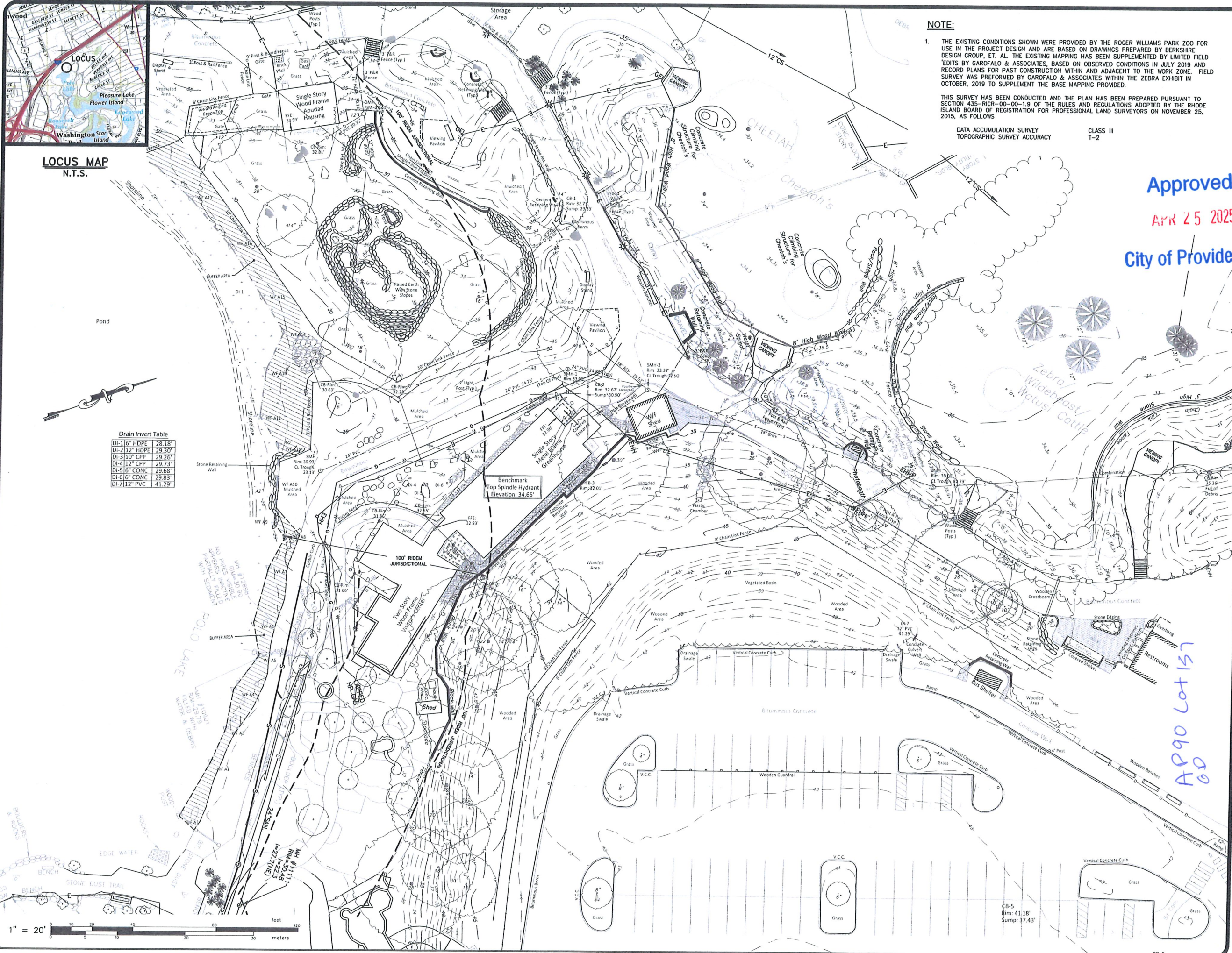
GAROFALO
GAROFALO & ASSOCIATES, INC.
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

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the engineer/surveyor and have been
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without the written consent of
the engineer or one of its
directors.

85 CORLISS STREET
P.O. BOX 6145
PROVIDENCE, R.I. 02940
TEL: 401-273-6000

JOB NO. 7213-00	DRAWN BY TEH
DWG. NO. 7213-ECS.dwg	CALCS BY SHH
SCALE: 1"=20'	APPROVED SAW
	DATE: OCTOBER, 2019

SHEET
1
OF 1 SHEET



GENERAL CONSTRUCTION NOTES:

- AN APPROVED SET OF PLANS AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE TRAILER AT ALL TIMES. DEVIATIONS OR CHANGES WILL NOT BE ALLOWED UNLESS BY WRITTEN APPROVAL FROM THE ENGINEER.
- SITING CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL APPROVALS HAVE BEEN SECURED. REQUIRED PERMITS/APPROVALS FOR THE PROJECT INCLUDE BUT NOT LIMITED TO THE FOLLOWING: SITE PLAN APPROVAL BY THE CITY OF PROVIDENCE/ROGER WILLIAMS PARK ZOO, NBC (NARRAGANSETT BAY COMMISSION) SEWER CONNECTION, PROVIDENCE WATER SERVICE CONNECTION, RIDEM RIPES/STORMWATER APPROVAL.
- THE CONTRACTOR MUST RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR IN THE STATE OF RHODE ISLAND TO LAYOUT ON THE GROUND ALL NEW ELEMENTS OF WORK. IF ANY WORK IS INSTALLED PRIOR TO THE ABOVE REQUIREMENT AND IF ANY WORK IS NOT SATISFACTORY TO THE ENGINEER, THE CONTRACTOR MUST REPLACE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING, INSTALLING OR PROCEEDING WITH WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER NECESSARY MEASURES NEEDED TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING UNDERGROUND UTILITIES AND FACILITIES ON THE DRAWINGS; HOWEVER, THE INFORMATION SHOWN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION, VERIFY ALL DIMENSIONS, SITE CONDITIONS AND MATERIALS. THE CONTRACTOR MUST CONTACT THE LOCAL UTILITY COMPANIES FOR EXACT LOCATION OF UTILITIES PRIOR TO THE START OF ANY CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE START OF ANY WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY THE CONTRACTOR.
- THE CONTRACTOR MUST NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITIES IN THE AREA OF PROPOSED CONSTRUCTION, EXCAVATION OR BLASTING AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION, EXCAVATION OR BLASTING. ALL WATER, SEWER, GAS AND ALL OTHER UTILITIES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR THE CITY OF PROVIDENCE AND THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
 - ALL CONSTRUCTION IN THE PUBLIC ROW MUST BE IN ACCORDANCE WITH THE CITY'S STANDARD DETAILS AVAILABLE AT [HTTPS://WWW.PROVIDENCERI.GOV/PUBLIC-WORKS/FORMS/UNDER "REPORTS + PUBLICATIONS"](https://www.providenceri.gov/public-works/forms/under-reports-reports-publications), OR AT [HTTPS://WWW.PROVIDENCERI.GOV/WP-CONTENT/UPLOADS/2019/06/PROVIDENCE-DPW-STANDARD-DETAILS.PDF](https://www.providenceri.gov/wp-content/uploads/2019/06/providence-dpw-standard-details.pdf).
 - THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, AS AMENDED, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF, AS IF ATTACHED HERETO.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY PAVEMENT, DRIVEWAYS, SIDEWALKS, WALL, CURBS, ETC. DAMAGED DURING CONSTRUCTION WITH MATCHING MATERIALS.
- THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE PROJECT SITE CONDITIONS THROUGHOUT CONSTRUCTION INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONJUNCTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL MATERIALS USED FOR CONSTRUCTION MUST BE NEW AND FREE OF DEFECTS. USED OR SALVAGED MATERIAL WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL FROM THE OWNER IS OBTAINED BY THE CONTRACTOR.
- AT ALL TIME THE CONTRACTOR MUST MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS. (I.E. IN TIMES OF RAIN OR SNOW, ROADS MUST BE ABLE TO CARRY A FIRE TRUCK BY BEING PAVED OR HAVING A CRUSHED STONE BASE, ETC.). WIDTH OF EMERGENCY VEHICLE ACCESS MUST BE A MINIMUM OF 20 FEET WIDE. ACCESS TO BUILDINGS THAT HAVE A FIRE SPRINKLER SYSTEM OR STANDPIPE MUST BE WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (FDC). NFPA 1141 3-1.
- NECESSARY BARRICADES, LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAYBE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC MUST BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR.
- HIGH INTENSITY LIGHTING FACILITIES MUST BE SO ARRANGED THAT THE SOURCE OF ANY LIGHT IS CONCEALED FROM PUBLIC VIEW AND FROM ADJACENT RESIDENTIAL PROPERTY AND DOES NOT INTERFERE WITH TRAFFIC. (REFER TO ELECTRICAL SITE PLANS PREPARED BY OTHERS FOR DETAILS.)
- ALL RI HIGHWAY BOUNDS AND PERMANENT SURVEY MARKERS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.
- ALL WORK WITHIN THE STATE HIGHWAY RIGHT OF WAY SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION, INCLUDING ALL REVISIONS AND THE RI STANDARD DETAILS.
- ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2003 INCLUDING ALL REVISIONS.
- REFER TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL PLANS FOR ALL BUILDING INFORMATION.
- THERE ARE KNOWN WETLAND AREAS ON OR ADJACENT TO THE PROJECT SITE. THE WETLANDS INDICATED HAVE BEEN FLAGGED IN THE FIELD.
- ALL CURB RADI ARE 3' UNLESS OTHERWISE NOTED ON THE SITE PLAN.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR IS REQUIRED TO DEVELOP AND IMPLEMENT A PLAN FOR THE TEMPORARY CONTROL OF VEHICULAR AND PEDESTRIAN TRAFFIC FOR WORK WITHIN PUBLIC STREET RIGHT-OF-WAY AT THE SITE EGRESS. CONTRACTOR SHALL OBTAIN APPROVAL OF SAID PLAN FROM APPROPRIATE STATE AND COMMUNITY PUBLIC SAFETY OFFICIALS.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION. SHOP DRAWINGS OF PRECAST STRUCTURES SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BEFORE USE.
- IF ANY EXISTING STRUCTURES AND/OR UTILITIES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, EITHER ON THE PROJECT SITE, ADJACENT PROPERTIES, OR WITHIN STATE RIGHT-OF-WAY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

SURVEY NOTES:

- THE EXISTING CONDITIONS SHOWN WERE PROVIDED BY THE ROGER WILLIAMS PARK ZOO FOR USE IN THE PROJECT DESIGN AND ARE BASED ON DRAWINGS PREPARED BY BERKSHIRE DESIGN GROUP, ET AL. THE EXISTING MAPPING HAS BEEN SUPPLEMENTED BY LIMITED FIELD "EDITS BY GAROFALO & ASSOCIATES, BASED ON OBSERVED CONDITIONS IN JULY 2019 AND RECORD PLANS FOR PAST CONSTRUCTION WITHIN AND ADJACENT TO THE WORK ZONE. FIELD SURVEY WAS PERFORMED BY GAROFALO & ASSOCIATES WITHIN THE ZEBRA EXHIBIT IN OCTOBER, 2019 TO SUPPLEMENT THE BASE MAPPING PROVIDED.
- THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

DATA ACCUMULATION SURVEY	CLASS III
TOPOGRAPHIC SURVEY ACCURACY	T-2
- SITING HAS BEEN PERFORMED ON AND IN THE IMMEDIATE VICINITY OF THE PROJECT SITE SINCE PROJECT SURVEY IN ASSOCIATION WITH OTHER PROJECTS BY THE OWNER. SPECIFIC REFERENCE IS MADE TO PLANS TITLED "ADVANCE UTILITY SITE PLANS FOR ROGER WILLIAMS PARK ZOO EDUCATION CENTER & PAVILION", DATED DECEMBER 16, 2023.

GENERAL UTILITY NOTES:

- THE CONTRACTOR SHALL NOTIFY DIG-SAFE (1-888-344-7233) AND ALL LOCAL AUTHORITIES & UTILITY COMPANIES TO VERIFY LOCATIONS OF UTILITIES WITHIN THE AREA 72 HOURS PRIOR TO BEGINNING ANY EXCAVATION OR DETERMINATION FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. LOCATION AND DEPTHS OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, LOCATE AND PROTECT EXISTING UTILITIES IN THE FIELD WHETHER OR NOT SHOWN ON THE DRAWINGS.
- ALL WORK SHALL BE IN COMPLETE ACCORDANCE WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL CODES, AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER/DEVELOPER.
- THE CONTRACTOR SHALL COORDINATE LOCATION AND INSTALLATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES TO MINIMIZE DISTURBANCE OF CURBING, PAVING AND COMPACTED SUBGRADE. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER & ALL LOCAL UTILITY COMPANIES 48 HOURS BEFORE EACH PHASE OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS DISCOVERED IN THE PLANS.
- BEDDING REQUIREMENTS SPECIFIED HEREIN ARE TO BE CONSIDERED AS MINIMUMS FOR RELATIVELY DRY, STABLE EARTH CONDITIONS. ADDITIONAL BEDDING SHALL BE REQUIRED FOR ROCK TRENCHES AND WET AREA. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO PROVIDE SUCH ADDITIONAL BEDDING AS MAY BE REQUIRED TO PROPERLY CONSTRUCT THE WORK.
- THE CONTRACTOR SHALL REMOVE ANY ABANDONED FOUNDATIONS, UTILITY STRUCTURES, BURIED DEBRIS ETC. WHICH INTERFERE WITH THE INSTALLATION OF THE UTILITY WORK. ALL SUCH STRUCTURES SHALL BE COMPLETELY REMOVED AND THE EXCAVATED AREA SHALL BE BACKFILLED WITH COMPACTED GRAVEL IN 6" LIFTS TO 95% COMPACTION TO 6" BELOW THE BOTTOM OF THE UTILITY AND PIPE.
- COMPACTION OF THE BACKFILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THE THEORETICAL MAXIMUM DRY DENSITY (ASTM D698). BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED IN LIFTS NOT TO EXCEED ONE FOOT IN COMPACTED FILL THICKNESS. CORRECTION OF ANY TRENCH SETTLEMENT WITHIN A YEAR FROM THE DATE OF PROJECT APPROVAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL PIPING LAYOUT INDICATED ON THESE PLANS IS DIAGRAMMATIC ONLY AND DOES NOT SHOW ALL THE REQUIRED FITTINGS FOR PROPER ALIGNMENT. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED FITTINGS TO OBTAIN PROPER ALIGNMENT AND FOR EXISTING UTILITY CONNECTIONS BASED UPON FIELD CONDITIONS.
- IF DURING EXCAVATION THE TRENCH WIDTH EXCEEDS THE SUM OF THE PIPE O.D. PLUS 2'-0", PLACE AND COMPACT THE FILL TO 12" ABOVE THE PIPE AND RE-EXCAVATE TO REQUIRED GRADE.
- ALL WATER SERVICE MATERIALS AND WORKMANSHIP SHALL CONFORM TO PROVIDENCE WATER SUPPLY BOARD REGULATIONS, STANDARDS AND SPECIFICATIONS. NOTIFICATION SHALL BE PROVIDED TO SAID AUTHORITIES AT LEAST 72 HOURS PRIOR TO INITIATING CONSTRUCTION. DOMESTIC WATER SERVICE PIPING SIZE SHOWN IS APPROXIMATE ONLY AND SHALL BE SIZED AND VERIFIED BY A LICENSED PLUMBING ENGINEER.
- ALL FIRE AND PLUMBING FIXTURES MUST CONFORM TO LOCAL SPECIFICATIONS AND AS STIPULATED BY THE LOCAL FIRE MARSHALL AND/OR THE BUILDING OFFICIAL.
- SEWER LINES SHALL BE INSTALLED AT A MINIMUM 10 FOOT HORIZONTAL SEPARATION FROM ANY PROPOSED OR EXISTING WATER LINE. WHENEVER SEWER LINES MUST CROSS WATER LINES, THE SEWER SHALL BE INSTALLED SO THAT THE TOP OF THE SEWER IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. WHERE 18 INCH VERTICAL SEPARATION & 10 FOOT HORIZONTAL SEPARATION CAN NOT BE MET AT WATER AND SEWER CROSSINGS, THE SEWER PIPE SHALL BE ENCASED IN EITHER DUCTILE IRON OR C900 BLUE BRUTE PIPE FOR A DISTANCE OF 10 FEET ON EACH SIDE OF CROSSING.
- STORM DRAINS 12" AND OVER SHALL BE SMOOTH INTERIOR WALL AND EXTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) PIPE CAPABLE OF WITHSTANDING (H-20) LOAD UNLESS NOTED OTHERWISE. PIPE SHALL BE JOINED USING BELL & SPIGOT JOINTS MEETING OR EXCEED ASTM F2648. THE JOINT SHALL BE SOIL-TIGHT AND GASKETS SHALL MEET OR EXCEED ASTM F477. HDPE PIPE SHALL BE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS INC. (ADS), HANCOR PIPE OR LANE PIPE. ALL STORM DRAINAGE PIPING SHALL BE LAID ON A SMOOTH CONTINUOUS GRADE WITH NO VISIBLE BENDS AT THE JOINTS. WHERE INDICATED ON DRAWINGS REINFORCED CONCRETE PIPE (RCP) PIPE SHALL BE CLASS III RCP WITH "O" RING GASKET JOINTS.
- GAS SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE UTILITY INSTALLATIONS AS REQUIRED TO ENSURE ADEQUATE GAS SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE GAS COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION.
- ELECTRIC SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. ELECTRIC SERVICE AND TRANSFORMER PAD SHALL CONFORM TO THE REQUIREMENTS OF THE ELECTRIC COMPANY. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE ELECTRIC SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE, ETC.) AS ARE REQUIRED BY THE ELECTRIC COMPANY FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR DETAILS ON ALL UNDERGROUND ELECTRIC.
- TEL/CABLE SERVICE FACILITIES SHALL BE DESIGNED BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ADEQUATE UTILITY SERVICE IS PROVIDED AND SHALL BE RESPONSIBLE FOR ALL INSTALLATION PROCEDURES (TRENCHING, LAYING PIPE ETC.) AS IS REQUIRED BY THE LOCAL UTILITY CO. FOR COMPLETE AND IN PLACE CONSTRUCTION. REFER TO ELECTRICAL DRAWINGS FOR ALL UNDERGROUND ELECTRIC.
- SITE LIGHTING ELEMENTS ARE SHOWN FOR APPROXIMATE ONLY. SITE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WORKING OF LIGHT IN LOCATIONS INDICATED. REFER TO SITE LIGHTING PLANS PLANS FOR INSTALLATION REQUIREMENTS.

GENERAL DRAINAGE & GRADING NOTES:

- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE CITY OF PROVIDENCE SPECIFICATIONS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- THE MAXIMUM RUNNING SLOPE ALONG ANY SIDEWALK SHALL BE 5%. THE MAXIMUM CROSS SLOPE ACROSS ANY SIDEWALK SHALL BE 2% A MINIMUM 5'x5' LANDING SHALL BE PROVIDED IN FRONT OF ALL BUILDING ENTRANCES.
- ALL ADAAG PARKING SPACES AND LOADING SPACES SHALL BE 2% MAXIMUM SLOPE IN ANY DIRECTION.
- INSTALL SILT SACKS AT ALL INLETS AFTER INSTALLATION.

STORMWATER SYSTEM MAINTENANCE NOTES:

THE DRAINAGE SYSTEMS ARE TO BE MONITORED THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD BY THE CONTRACTOR. UPON COMPLETION OF THE PROJECT THE CONTRACTOR MUST DO A FINAL FULL MAINTENANCE & CLEAN UP OF THE STORMWATER MANAGEMENT SYSTEM AND THE SITE. UPON COMPLETION OF THE CONTRACTOR'S FINAL MAINTENANCE & CLEAN UP OF THE PROJECT, MONITORING OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE THE RESPONSIBILITY OF THE OWNER.

CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS: (RESPONSIBILITY OF CONTRACTOR)

- SILT BARRIER:** MONITOR SILT BARRIER ON A WEEKLY BASIS AND AFTER EVERY RAIN STORM EVENT AND REPAIR OR REPLACE ANY DAMAGED AREAS IMMEDIATELY. IMMEDIATELY CLEAN THE SILT BARRIER IF SIX INCHES OR MORE OF SEDIMENT HAS ACCUMULATED ON THE HAYBALE & SILT BARRIER.
- PAVED AREAS:** PARKING LOTS, PUBLIC & PRIVATE ROADWAYS AND GUTTERS SHALL BE SWEEPED CLEAN OF ALL SEDIMENT & DEBRIS. SWEEPING & REMOVAL OF DEBRIS SHALL BE PERFORMED ON A WEEKLY BASIS AT A MINIMUM.
- CATCH BASINS:** ALL CATCH BASINS SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
- DRAIN MANHOLES:** DRAIN MANHOLES SHALL BE INSTALLED AS DETAILED AND INSPECTED AFTER EVERY RAIN STORM EVENT. IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE DRAIN MANHOLE.
- SUBSURFACE INFILTRATION BASIN (STORMTECH INFILTRATION SYSTEMS AND ISOLATOR ROWS):** SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED AFTER EVERY RAIN STORM. CARE SHALL BE TAKEN TO PREVENT SILTATION OF THE BASIN AFTER INSTALLATION. PRETREATMENT BMP'S (DEEP SUMP CATCH BASINS & WATER QUALITY STRUCTURES) MUST BE MAINTAINED AND CLEANED PER THE PROCEDURES LISTED TO ENSURE PROPER FUNCTIONING. SUBSURFACE INFILTRATION BASIN SHALL BE MONITORED FOR ANY PONDING AND ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED BY A VAC-TRUCK. DISPOSAL OF ALL SEDIMENT AND DEBRIS MUST IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES & REGULATIONS.

POST CONSTRUCTION MONITORING/MAINTENANCE PROCEDURES SHALL BE AS FOLLOWS: (RESPONSIBILITY OF OWNER)

- PAVED AREAS:** PARKING LOTS, ROADS AND ALL ACCESS WAYS AND GUTTERS MUST BE SWEEPED CLEAN OF ALL SEDIMENT AND DEBRIS ON BI-ANNUAL BASIS IN SPRING AND FALL OF EACH YEAR, OR AS NECESSARY.
- CATCH BASINS:** ALL CATCH BASINS MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. CATCH BASINS MUST BE INSPECTED TO ENSURE THEY HAVE ADEQUATE SUMP CAPACITY. FRAMES AND GRATES ARE NOT DAMAGED. WATER SEPARATING DEVICES ARE IN PLACE. CATCH BASIN SUMPS ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR. IMMEDIATELY CLEAN THE CATCH BASIN SUMP IF TWO FEET OR MORE OF SEDIMENT HAS ACCUMULATED WITHIN THE CATCH BASIN.
- DRAIN MANHOLES:** ALL DRAIN MANHOLES MUST BE INSPECTED AND MAINTAINED ON A BI-ANNUAL BASIS IN MARCH AND OCTOBER OF EACH YEAR. DRAIN MANHOLES MUST BE INSPECTED TO ENSURE FRAMES AND COVERS ARE NOT DAMAGED AND NO BLOCKAGES HAVE OCCURRED WITHIN THE MANHOLE. DRAIN MANHOLES ARE TO BE CLEANED OUT DURING BI-ANNUAL INSPECTIONS IN MARCH AND OCTOBER OF EACH YEAR IMMEDIATELY CLEAN THE DRAIN MANHOLE IF ONE FOOT OR MORE OF SEDIMENT HAS ACCUMULATED.
- SUBSURFACE INFILTRATION BASINS AND ISOLATOR ROWS:** SUBSURFACE INFILTRATION BASIN SHALL BE INSPECTED ON A BI-ANNUAL BASIS, IN MARCH AND OCTOBER. BASIN SHALL BE MONITORED FOR ANY PONDING AND ACCUMULATION OF SEDIMENT/DEBRIS. ALL ACCUMULATED SEDIMENT AND DEBRIS MUST BE REMOVED BY A VAC-TRUCK. DISPOSAL OF ALL SEDIMENT AND DEBRIS MUST IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES & REGULATIONS.

INFILTRATION AREA CONSTRUCTION PROTECTION

FOR THE LONG-TERM FUNCTION OF THE INFILTRATING SYSTEMS, CARE MUST BE TAKEN IN THIS AREA DURING CONSTRUCTION. THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMP'S):

- THE INFILTRATION AREAS SHALL NOT BE USED AS A CONSTRUCTION SEDIMENTATION SYSTEM.
- CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION AND EARTH MATERIALS SHALL BE OUTSIDE THE LIMITS OF THE INFILTRATION AREA UNTIL INSTALLATION IS COMPLETED. THE SUBGRADE BENEATH THE SYSTEM SHALL NOT BE COMPACTED.
- EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION AREAS SHALL BE PERFORMED MANUALLY OR BY HYDRAULIC EXCAVATOR OR SOME OTHER SIMILAR MEANS TO ENSURE THAT THE EQUIPMENT IS NOT IN DIRECT CONTACT WITH THE NATURAL INFILTRATION EARTH MATERIAL AND DOES NOT CAUSE COMPACTION OF THE MATERIAL AND THE ENTIRE AREA IS TO BE SCARIFIED PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AND EROSION CONTROLS AROUND THE PERIMETER OF THE INFILTRATION AREA TO PREVENT THE USE OF THE INFILTRATION ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION CAPABILITIES OF THE AREA. THIS FENCING MAY BE REMOVED FOR BACKFILLING AND FINAL CONSTRUCTION.

SITE PLAN LEGEND (RIDOT/PROVIDENCE STDS):

REFER CITY OF PROVIDENCE DPW STANDARDS:
www.providenceri.gov/wp-content/uploads/2019/06/Providence-DPW-Standard-Details.pdf

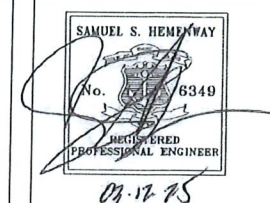
(BCP)	BITUMINOUS CONCRETE PAVEMENT CLASS 12.5 HMA SURFACE CLASS 19 HMA BASE 12" GRAVEL BORROW SUBBASE	(7.3.0)	GRANITE CURB
(12"W)	12" PAVEMENT MARKINGS-CROSSWALKS & STOP BAR	(7.6.0)	CURB SETTING DETAIL
(LS)	4" LOAM AND SEEDING, TYPE 2	(9.0)	CONSTRUCTION ACCESS
(6.1.0)	LIGHT - DUTY ROUND FRAME AND COVER	(20.1.0)	PAVEMENT MARKINGS-ARROWS AND ONLY
(6.2.1)	HEAVY - DUTY ROUND FRAME AND COVER	(43.1.0)	CEMENT CONCRETE SIDEWALK
(6.3.2)	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	(43.3.0)	WHEELCHAIR RAMP
(6.4.0)	ROUND FRAME AND GATE	(43.3.1)	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
(7.1.0)	PRECAST CONCRETE CURB	(48.1.0)	DETECTIBLE WARNING PANEL PLACEMENT
		(CLF)	CHAIN LINK FENCE
		(DMF)	DECORATIVE METAL FENCE

SITE LEGEND

EXISTING	NEW	DESCRIPTION
Q	E	CENTERLINE (LAYOUT)
D	D	STORM DRAIN
L	E	ELECTRIC (UNDERGROUND)
F	F	FIRE SERVICE
FD	FD	FOOTING DRAIN
G	G	GAS
OHW	OHW	OVERHEAD WIRE
	S	PROPERTY LINE
	SL	SANITARY SEWER
	TL	SITE LIGHTING SERVICE
	T	TELEPHONE
	W	WATER
	(64)	CONTOUR
x 64.0	x 64.00	SPOT GRADE
x 64.0(BC)	x 64.00(BC)	SPOT GRADE (BOT. OF CURB)
x 64.5(TC)	x 64.50(TC)	SPOT GRADE (TOP OF CURB)
64.5(BW)	64.50(BW)	SPOT GRADE (BOT. OF WALL)
64.5(TW)	64.50(TW)	SPOT GRADE (TOP OF WALL)
BCC	BCC	BITUMINOUS CONC. CURB
CCB	CCB	CAPE COD BERM
PCC	PCC	PRECAST CONC. CURB
PCSMC	PCSMC	PRECAST SLOPED MOUNT. CURB
SGC	SGC	SLOPED GRANITE CURB
VGC	VGC	VERTICAL GRANITE CURB
		CHAINLINK FENCE (CLF)
		STOCKADE FENCE (STKF)
		BORING LOCATION
		CATCH BASIN
		DOUBLE GRATE CATCH BASIN
		CONCRETE THRUST BLOCK
		DRAIN MANHOLE
		FLARED END STRUCTURE
		SEWER MANHOLE
		WATER SERVICE
		UTILITY POLE
		FIRE HYDRANT
		GATE VALVE AND CURB BOX
		HANDICAP SYMBOL (PRKG. SPACE)
		SIGN
		WETLAND
		SOIL EVALUATION LOCATION
		TEST PIT LOCATION
		FIRE DEPARTMENT CONNECTION
		POST INDICATOR VALVE (PIV)
		ELECTRIC MANHOLE (EMH)
		TELEPHONE MANHOLE (TMH)
		TRANSFORMER PAD
		GENERATOR PAD
		GROUND CLEANOUT
		SIGHT LIGHT POLE
		TRAFFIC FLOW DIRECTION
		CONTINUOUS ROW OF HAYBALES
		CONTINUOUS ROW OF SILT FENCE
		PAVEMENT SAWCUT & MATCH TO EXISTING
		ROOT/PROVIDENCE STD DETAIL REFERENCE

ABBREVIATIONS

CI	CAST IRON PIPE
CLDI	CEMENT LINED DUCTILE IRON PIPE
CLF	CHAINLINK FENCE
CTE	POINT OF CONNECTION TO EXISTING
D.I.	DUCTILE IRON PIPE
ESHWT	ESTIMATED SEASONAL HIGH WATER TABLE
ETR	EXISTING TO REMAIN
EX	EXISTING
F&I	FURNISH AND INSTALL
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV.	INVERT ELEVATION
MTE	MATCH TO EXISTING
NIC	NOT IN CONTRACT
NIS	NOT TO SCALE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
WF	VERIFY IN FIELD
WQS	WATER QUALITY STRUCTURE



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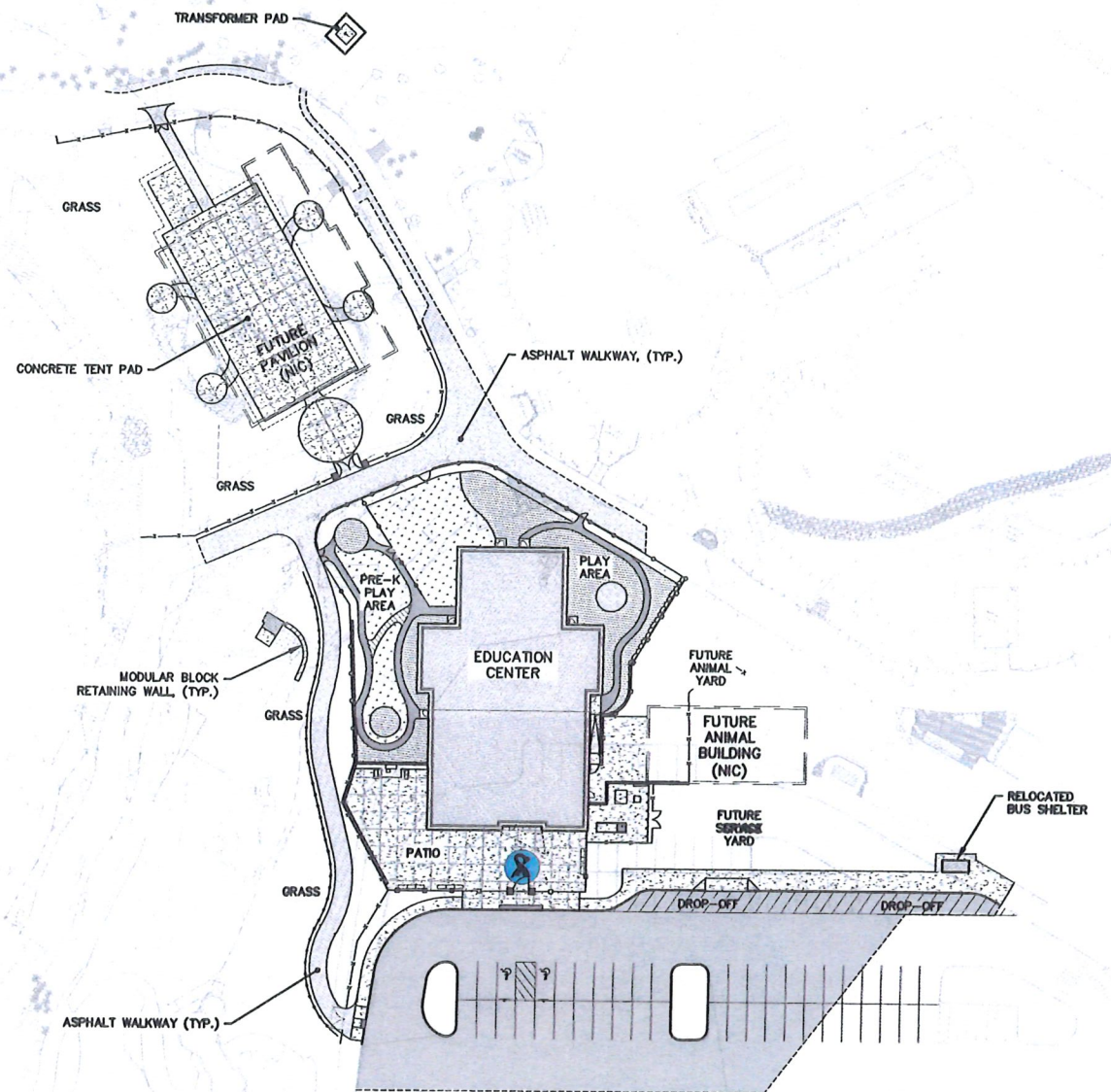
Revision Schedule	
Revision Number	Revision Date

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MARCH 12, 2025

**SHEET TITLE
GENERAL NOTES & LEGEND**

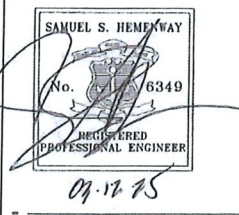
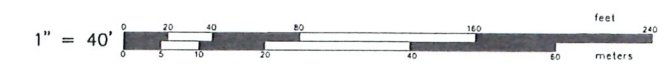
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C-1.0



SHEET NOTE:
 1. THIS PLAN IS SCHEMATIC ONLY AND PROVIDED SOLELY FOR SITE CONTEXT.

Approved
APR 25 2025
City of Providence

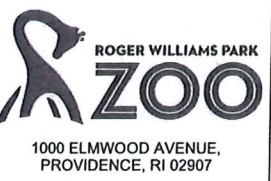


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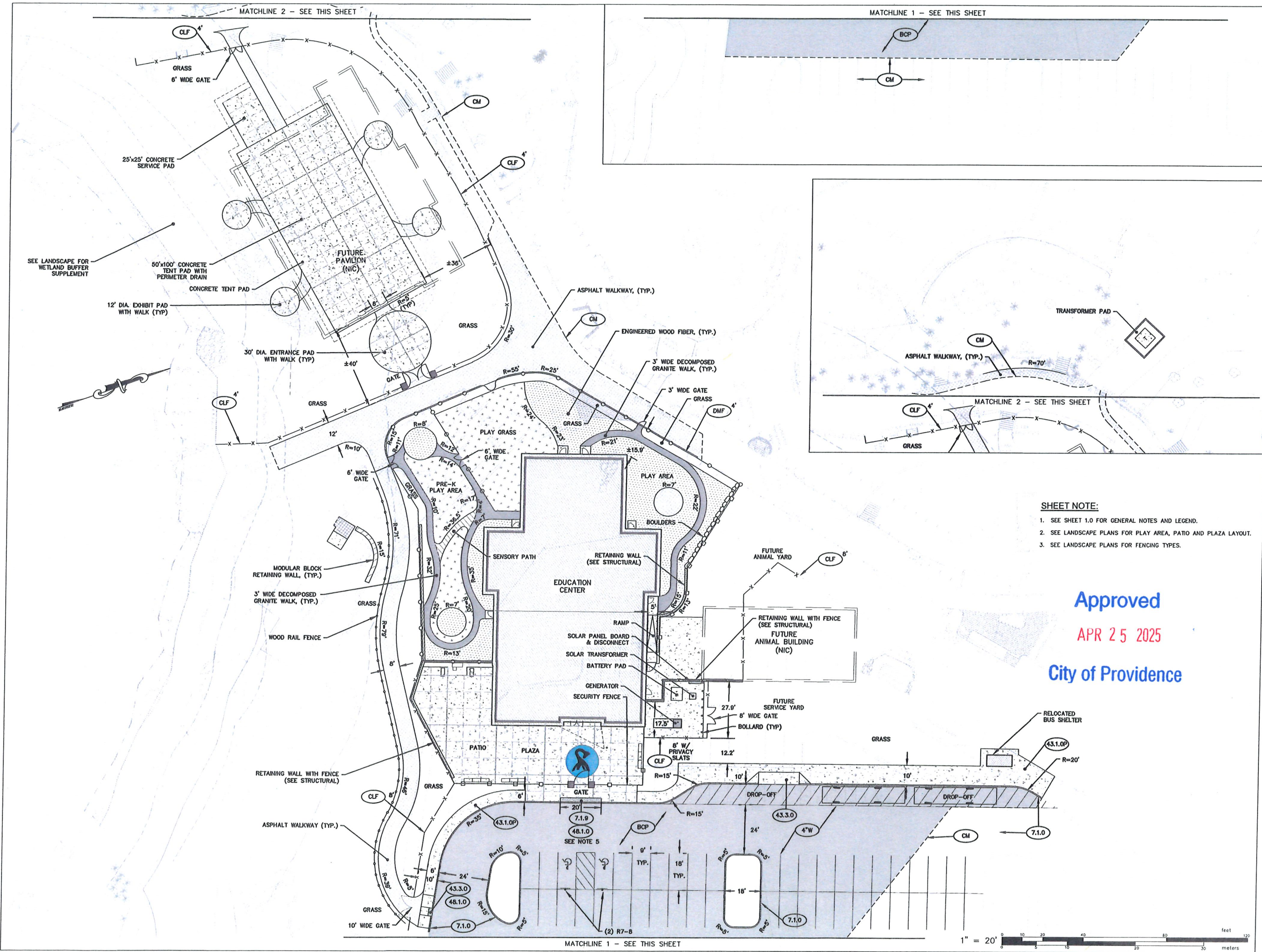
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SHEET TITLE
OVERALL PLAN

DRAWN BY: KYV	JOB NUMBER: 7213-00
CHECKED BY: SSH	DATE: 08/19/2024

C-2.0

L:\7213-00 Roger Williams Park Zoo (Saccocio) - Providence, RI\Views\01-Current\7213-00-base_3.dwg 03/14/2025 koruda 07:11



- SHEET NOTE:**
1. SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
 2. SEE LANDSCAPE PLANS FOR PLAY AREA, PATIO AND PLAZA LAYOUT.
 3. SEE LANDSCAPE PLANS FOR FENCING TYPES.

Approved
APR 25 2025
City of Providence

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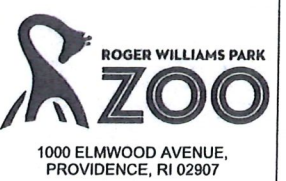


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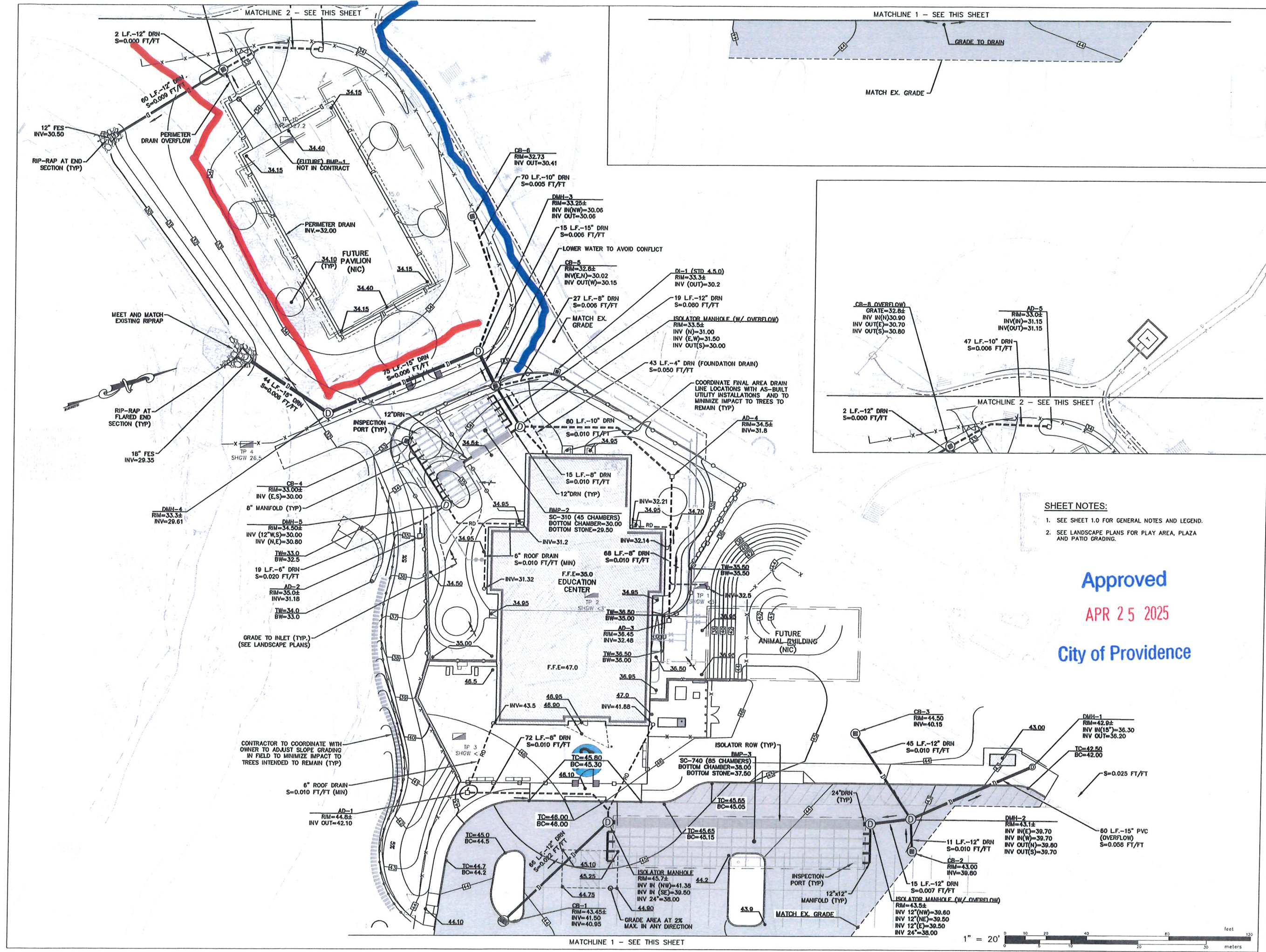
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SHEET TITLE
SITE PLAN

DRAWN BY: KYY JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 09/19/2024

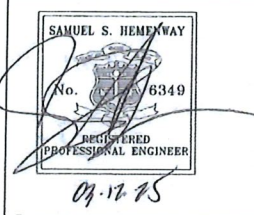
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SHEET NOTES:
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 2. SEE LANDSCAPE PLANS FOR PLAY AREA, PLAZA AND PATIO GRADING.

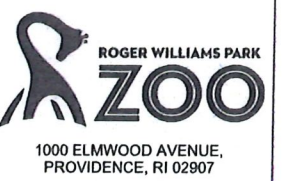
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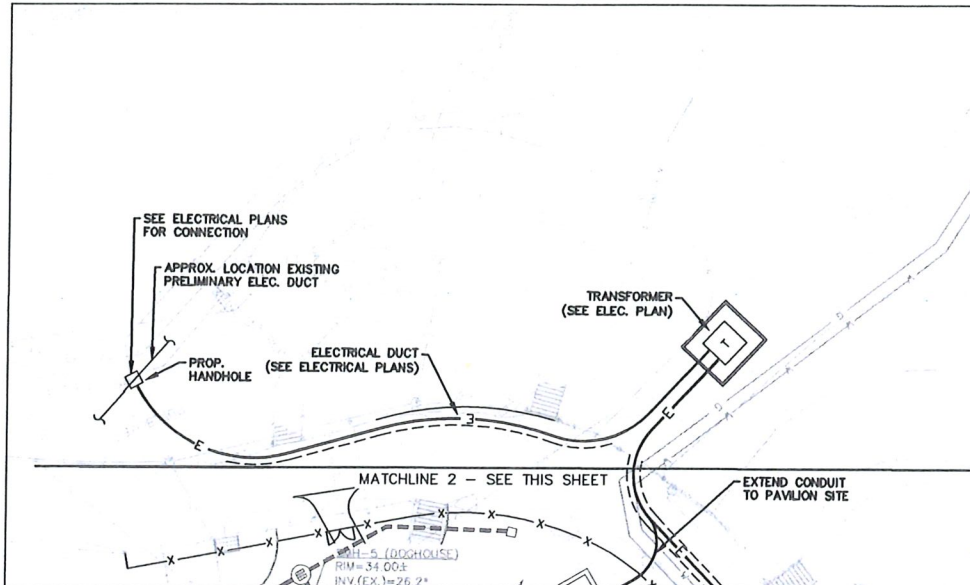
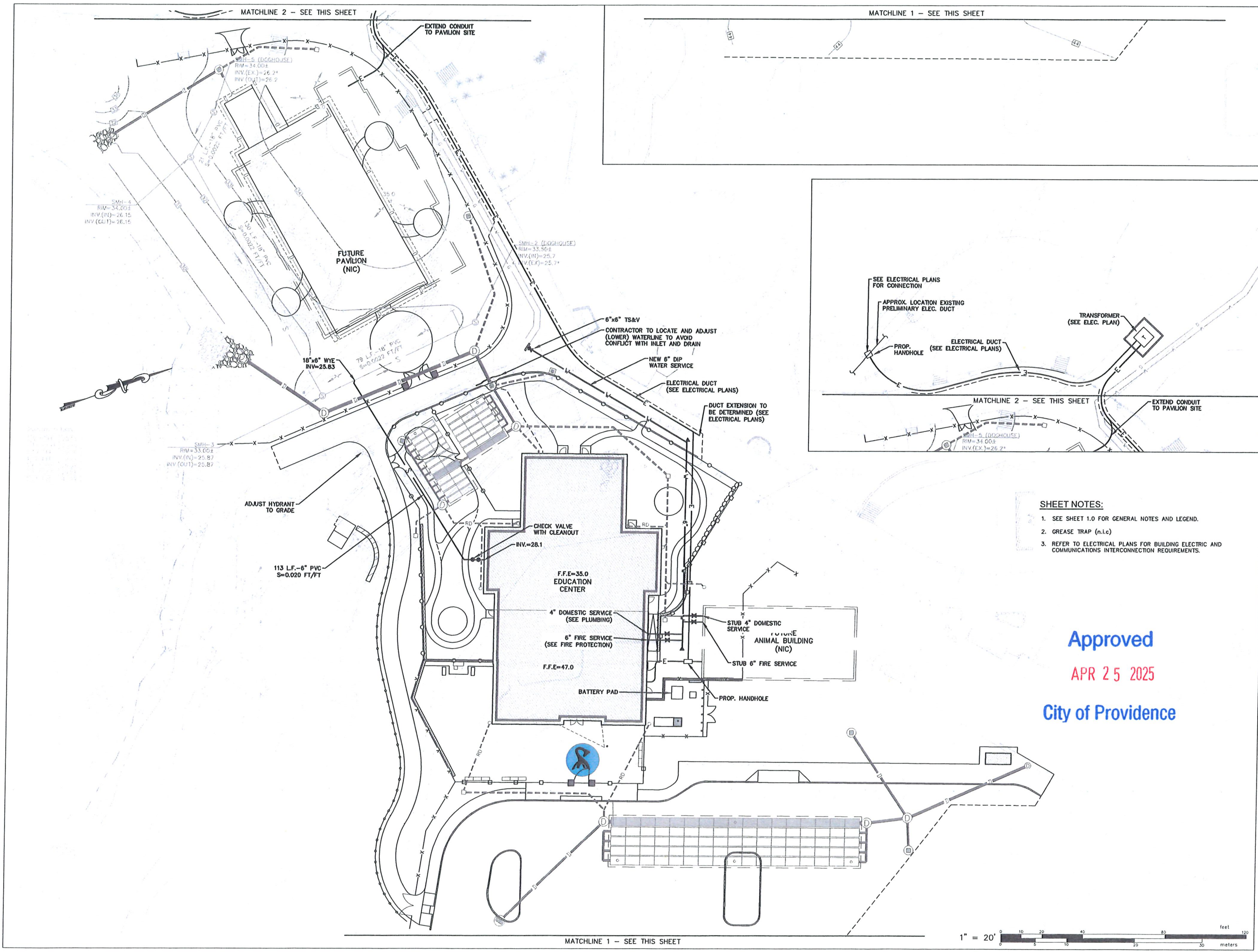
SHEET TITLE
GRADING & DRAINAGE PLAN

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 CHECKED BY: SSH DATE: 08/19/2024

C-5.0

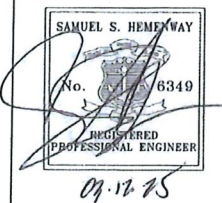
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- SHEET NOTES:**
1. SEE SHEET 1.0 FOR GENERAL NOTES AND LEGEND.
 2. GREASE TRAP (n.i.c)
 3. REFER TO ELECTRICAL PLANS FOR BUILDING ELECTRIC AND COMMUNICATIONS INTERCONNECTION REQUIREMENTS.

Approved
 APR 25 2025
City of Providence

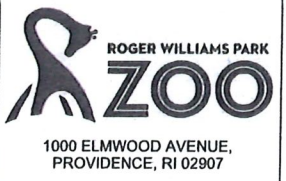


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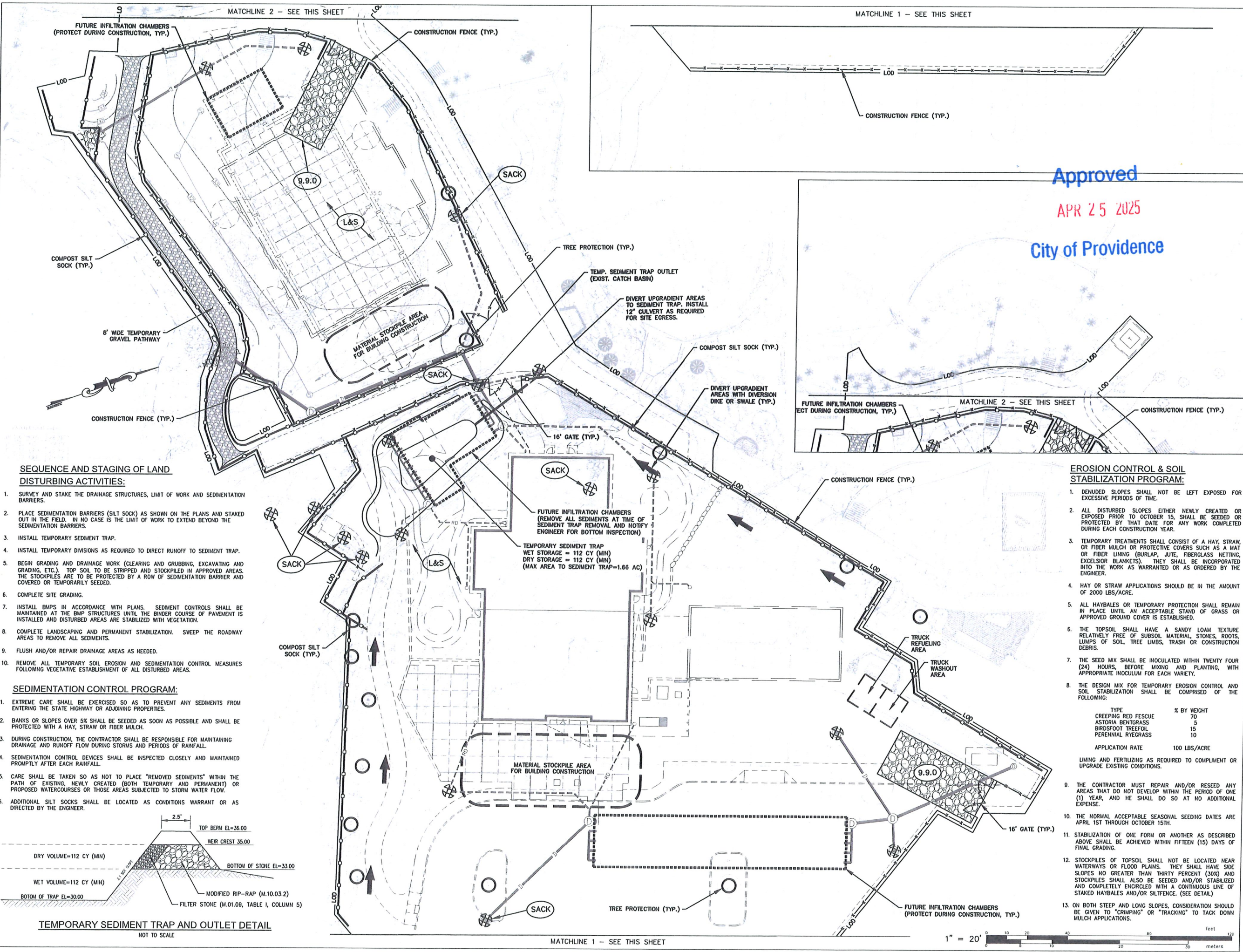
SHEET TITLE
UTILITIES PLAN

DRAWN BY: KYK JOB NUMBER: 7213-00
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SHEET: 7 OF 13

L:\7213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\proj\01-CURRENT\7213-00-grading_r3.dwg 03/14/2025 kenads 07:34



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SEQUENCE AND STAGING OF LAND DISTURBING ACTIVITIES:

1. SURVEY AND STAKE THE DRAINAGE STRUCTURES, LIMIT OF WORK AND SEDIMENTATION BARRIERS.
2. PLACE SEDIMENTATION BARRIERS (SILT SOCK) AS SHOWN ON THE PLANS AND STAKED OUT IN THE FIELD. IN NO CASE IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS.
3. INSTALL TEMPORARY SEDIMENT TRAP.
4. INSTALL TEMPORARY DIVISIONS AS REQUIRED TO DIRECT RUNOFF TO SEDIMENT TRAP.
5. BEGIN GRADING AND DRAINAGE WORK (CLEARING AND GRUBBING, EXCAVATING AND GRADING, ETC.). TOP SOIL TO BE STRIPPED AND STOCKPILED IN APPROVED AREAS. THE STOCKPILES ARE TO BE PROTECTED BY A ROW OF SEDIMENTATION BARRIER AND COVERED OR TEMPORARILY SEEDED.
6. COMPLETE SITE GRADING.
7. INSTALL BMPs IN ACCORDANCE WITH PLANS. SEDIMENT CONTROLS SHALL BE MAINTAINED AT THE BMP STRUCTURES UNTIL THE BINDER COURSE OF PAVEMENT IS INSTALLED AND DISTURBED AREAS ARE STABILIZED WITH VEGETATION.
8. COMPLETE LANDSCAPING AND PERMANENT STABILIZATION. SWEEP THE ROADWAY AREAS TO REMOVE ALL SEDIMENTS.
9. FLUSH AND/OR REPAIR DRAINAGE AREAS AS NEEDED.
10. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS.

SEDIMENTATION CONTROL PROGRAM:

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY SEDIMENTS FROM ENTERING THE STATE HIGHWAY OR ADJOINING PROPERTIES.
2. BANKS OR SLOPES OVER 5% SHALL BE SEEDED AS SOON AS POSSIBLE AND SHALL BE PROTECTED WITH A HAY, STRAW OR FIBER MULCH.
3. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.
4. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED CLOSELY AND MAINTAINED PROMPTLY AFTER EACH RAINFALL.
5. CARE SHALL BE TAKEN SO AS NOT TO PLACE "REMOVED SEDIMENTS" WITHIN THE PATH OF EXISTING, NEWLY CREATED (BOTH TEMPORARY AND PERMANENT) OR PROPOSED WATERCOURSES OR THOSE AREAS SUBJECTED TO STORM WATER FLOW.
6. ADDITIONAL SILT SOCKS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.

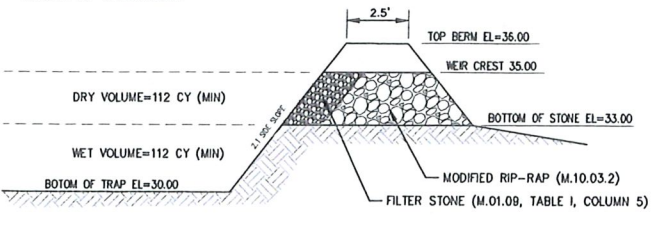
EROSION CONTROL & SOIL STABILIZATION PROGRAM:

1. DENUDED SLOPES SHALL NOT BE LEFT EXPOSED FOR EXCESSIVE PERIODS OF TIME.
2. ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE FOR ANY WORK COMPLETED DURING EACH CONSTRUCTION YEAR.
3. TEMPORARY TREATMENTS SHALL CONSIST OF A HAY, STRAW, OR FIBER MULCH OR PROTECTIVE COVERS SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
4. HAY OR STRAW APPLICATIONS SHOULD BE IN THE AMOUNT OF 2000 LBS/ACRE.
5. ALL HAYBALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
6. THE TOPSOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS.
7. THE SEED MIX SHALL BE INOCULATED WITHIN TWENTY FOUR (24) HOURS, BEFORE MIXING AND PLANTING, WITH APPROPRIATE INOCULUM FOR EACH VARIETY.
8. THE DESIGN MIX FOR TEMPORARY EROSION CONTROL AND SOIL STABILIZATION SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
CREeping RED FESCUE	70
ASTORIA BENTGRASS	5
BIRDFOOT TREEFOIL	15
PERENNIAL RYEGRASS	10

APPLICATION RATE 100 LBS/ACRE

9. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) YEAR, AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE.
10. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE APRIL 1ST THROUGH OCTOBER 15TH.
11. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN FIFTEEN (15) DAYS OF FINAL GRADING.
12. STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR WATERWAYS OR FLOOD PLAINS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN THIRTY PERCENT (30%) AND STOCKPILES SHALL ALSO BE SEEDED AND/OR STABILIZED AND COMPLETELY ENCLOSED WITH A CONTINUOUS LINE OF STAKED HAYBALES AND/OR SILTFENCE. (SEE DETAIL)
13. ON BOTH STEEP AND LONG SLOPES, CONSIDERATION SHOULD BE GIVEN TO "CRIMPING" OR "TRACKING" TO TACK DOWN MULCH APPLICATIONS.



TEMPORARY SEDIMENT TRAP AND OUTLET DETAIL
NOT TO SCALE

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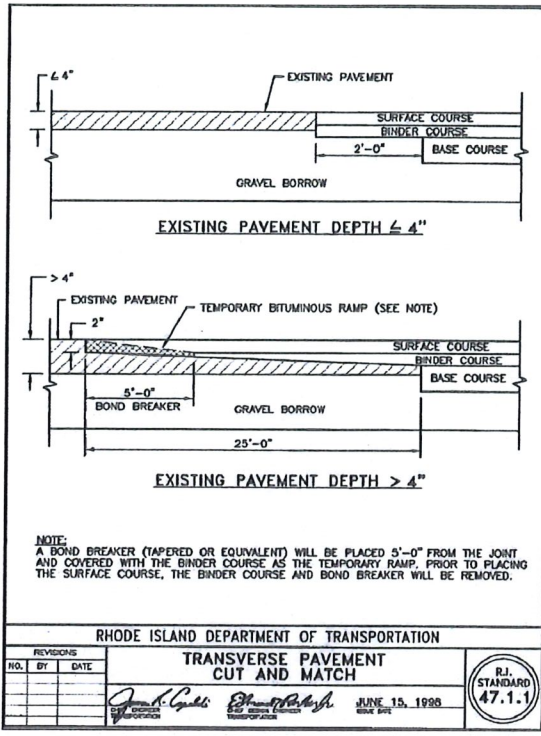
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MARCH 12, 2025

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL PLAN

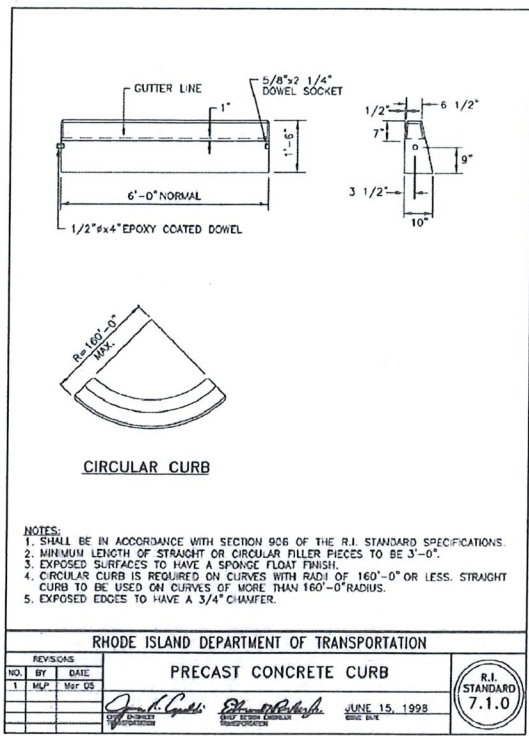
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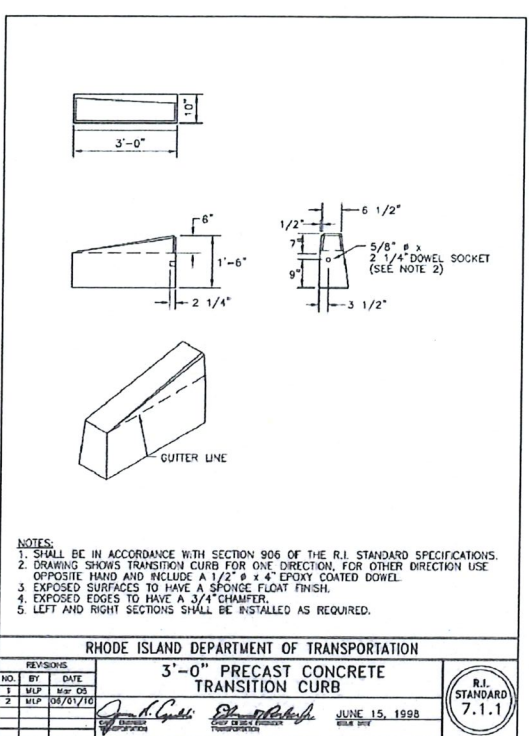
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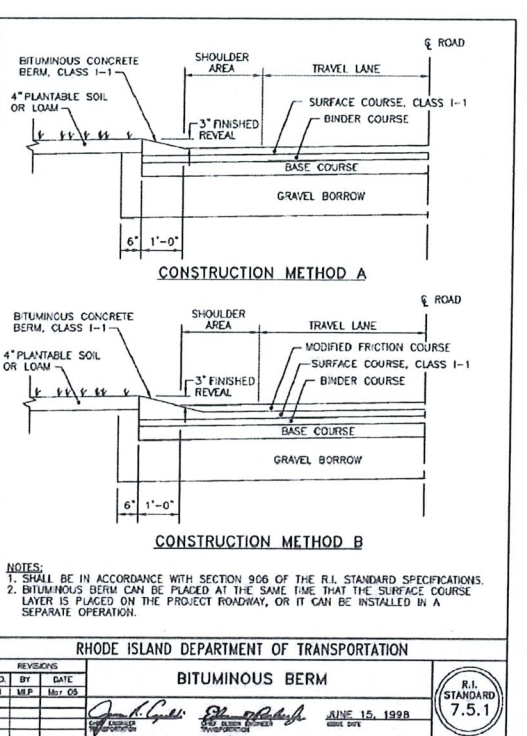
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TRANSVERSE PAVEMENT CUT AND MATCH
 R.I. STANDARD 47.1.1
 JUN 15, 1998



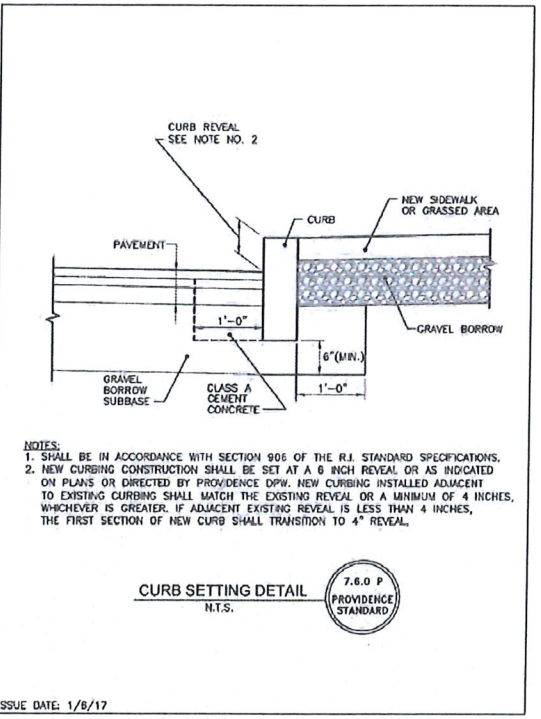
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PRECAST CONCRETE CURB
 R.I. STANDARD 7.1.0
 JUN 15, 1998



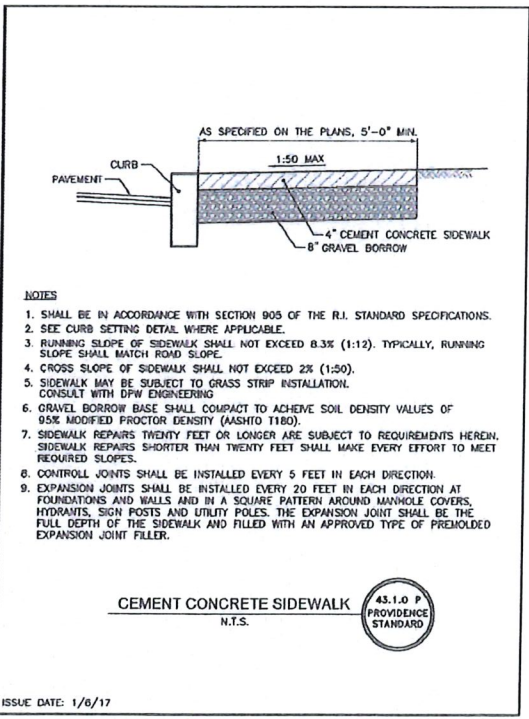
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 R.I. STANDARD 7.1.1
 JUN 15, 1998



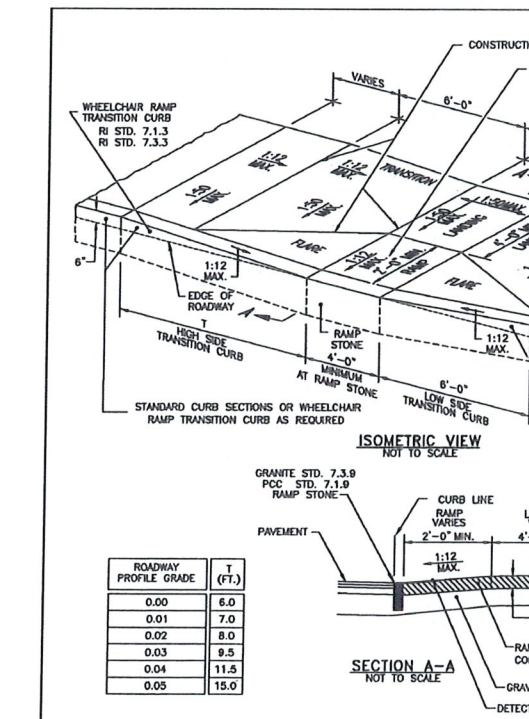
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 R.I. STANDARD 7.5.1
 JUN 15, 1998



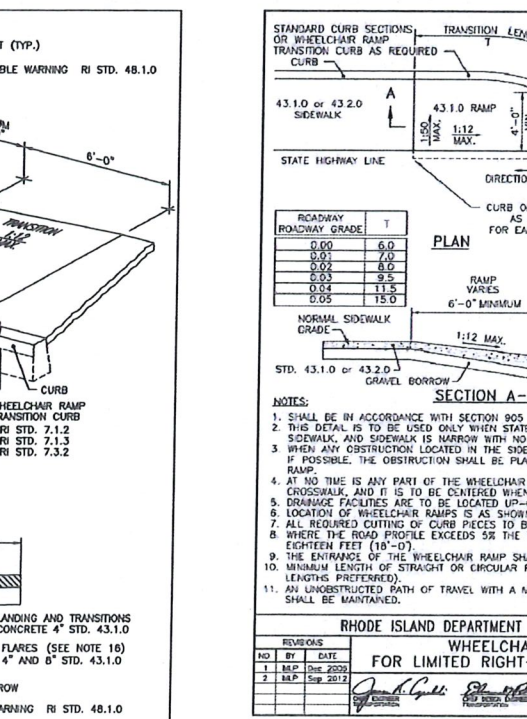
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CURB SETTING DETAIL
 N.T.S.
 7.8.0 P PROVIDENCE STANDARD
 ISSUE DATE: 1/8/17



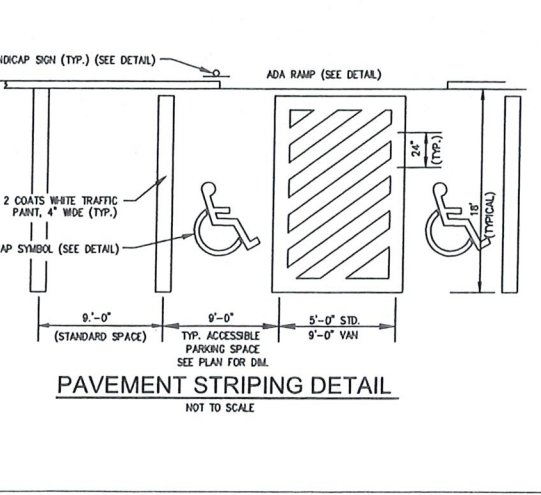
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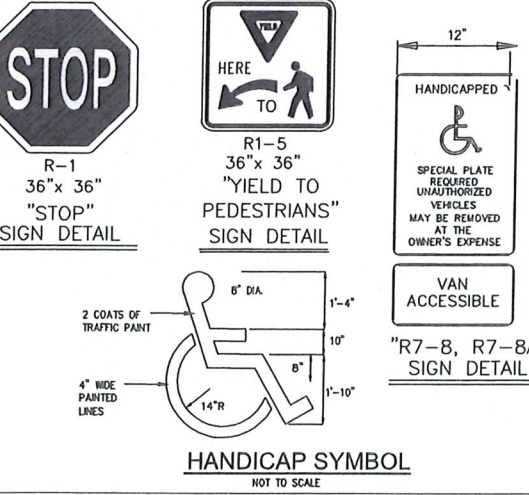
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WHEELCHAIR RAMP
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 JUN 15, 1998



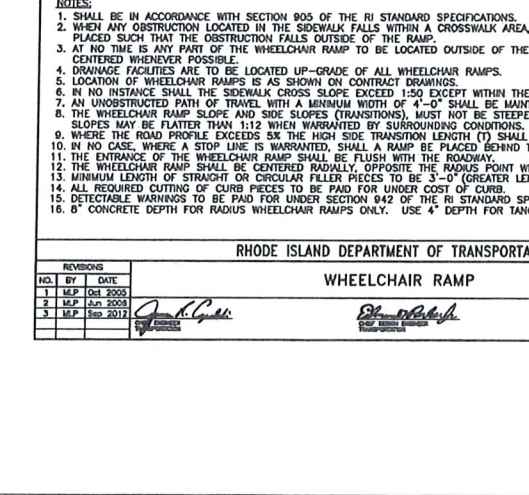
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
 R.I. STANDARD 43.3.1
 JUN 15, 1998



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
PAVEMENT STRIPING DETAIL
 NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
HANDICAP SYMBOL
 NOT TO SCALE



RHODE ISLAND DEPARTMENT OF TRANSPORTATION
DETECTABLE WARNING SURFACE DETAIL
 NOT TO SCALE

Approved
 APR 25 2025
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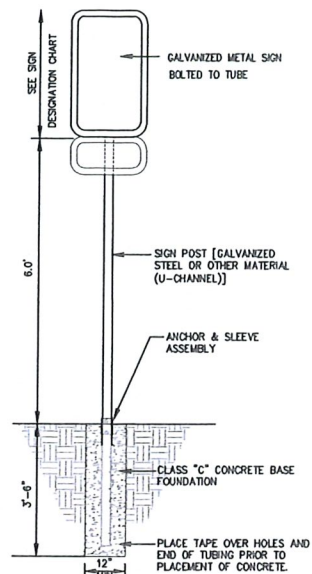
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DRAWN BY: KYY JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 08/19/2024

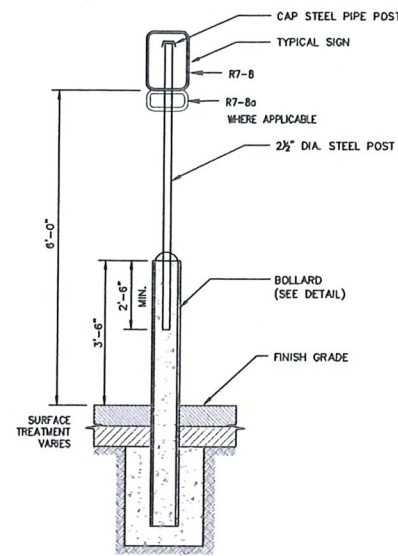
C-8.0

SHEET: 9 OF 13

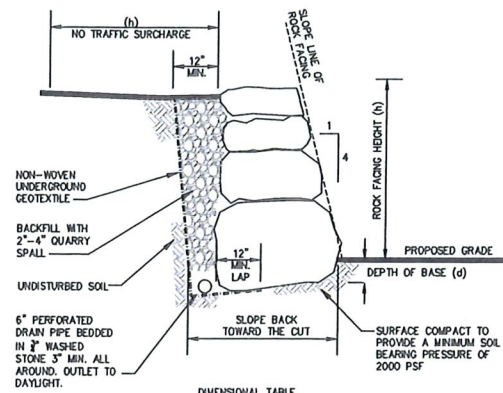
L:\7213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\Views\01-Curms\7213-00-DETAILS_c3.dwg 02/14/2025 karada 07-07



SIGNAGE DETAIL
NOT TO SCALE



BOLLARD MOUNTED SIGN
NOT TO SCALE

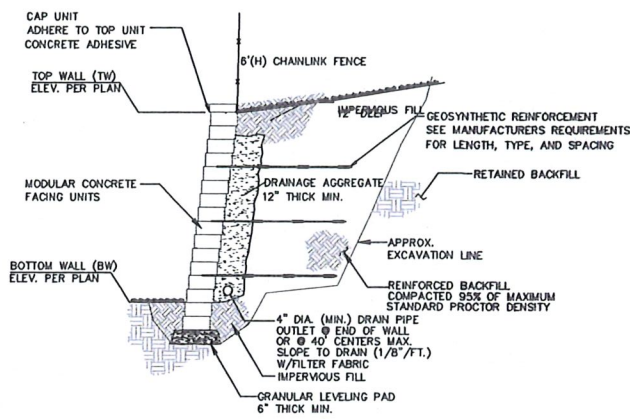


DIMENSIONAL TABLE

(h)	(d)	SIZE (BASE)	SIZE (TOP)
2 FEET	3 INCHES	2-MAN	1-MAN
4 FEET	6 INCHES	3-MAN	2-MAN
6 FEET	9 INCHES	4-MAN	2-MAN
8 FEET	12 INCHES	5-MAN	2-MAN

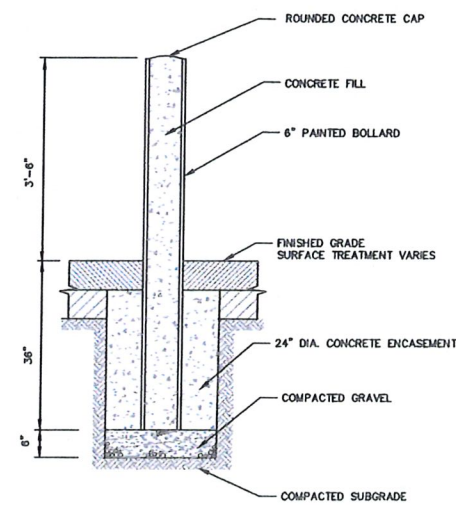
- NOTES:**
- USE THE FOLLOWING TABLE WHEN REFERRING TO LARGER SIZE ROCKS AND BOULDERS.
- | ROCK SIZE | ROCK HEIGHT | AVG. DIMENSIONS |
|-----------|------------------|-----------------|
| ONE MAN | 50 - 200LBS | 12" - 18" |
| TWO MAN | 200 - 700LBS | 18" - 28" |
| THREE MAN | 700 - 2,000LBS | 28" - 36" |
| FOUR MAN | 2,000 - 4,000LBS | 36" - 48" |
| FIVE MAN | 4,000 - 8,000LBS | 48" - 54" |
- FOR HEIGHTS LESS THAN OR EQUAL TO 3', PERFORATED DRAIN MAY BE ELIMINATED WHERE FREE DRAINING BACKFILL PROVIDES FOR WATER FLOW THROUGH WALL.

BOULDER WALL
NOT TO SCALE

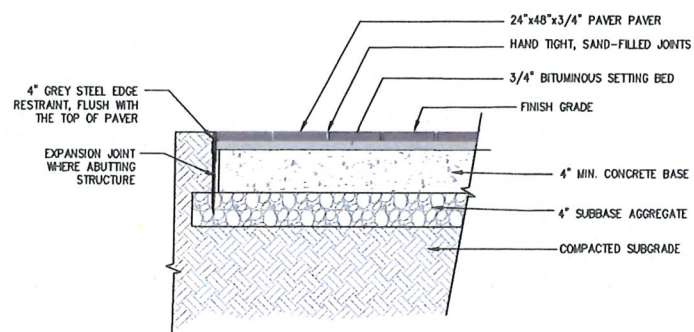


NOTE:
DETAILS INDICATED ARE FOR TYPICAL MODULAR BLOCK WALL INSTALLATIONS (VERSA-LOK, KEYSTONE, OR APPROVED EQUAL). CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR WALL CONSTRUCTION.

MODULAR BLOCK WALL DETAIL
NOT TO SCALE

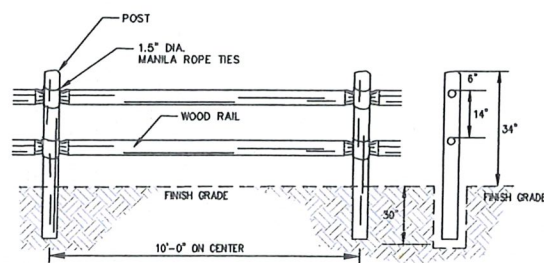


BOLLARD
NOT TO SCALE

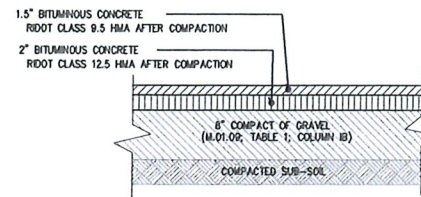


- NOTES:**
- PORCELAIN PAVERS SHALL BE HANOVER ARCHITECTURAL PRODUCTS, 24"x48"x3/4" PORCELAIN PAVER-URBAN COLLECTION, COLOR: SANTA FE, OR APPROVED EQUAL.
 - PAVERS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
 - INSTALL 2" WEEP HOLES IN CONCRETE BASE AT 48" O.C. AND FILL WITH STONE.
 - COORDINATE CONCRETE BASE INSTALLATION WITH TENT ANCHORS FOR CONCURRENT INSTALLATION.
 - PROTECT PAVER AREA AND AGGREGATES FROM CONSTRUCTION VEHICLE TRAFFIC.

PAVER SECTION
NOT TO SCALE

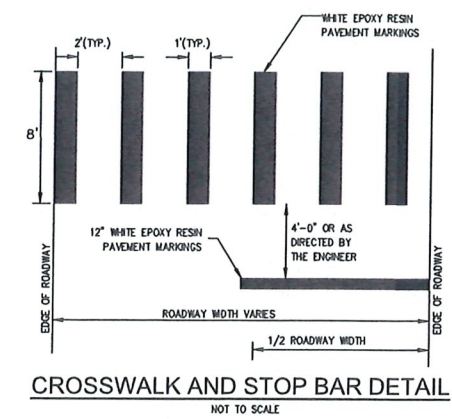


WOOD RAIL FENCE
NOT TO SCALE

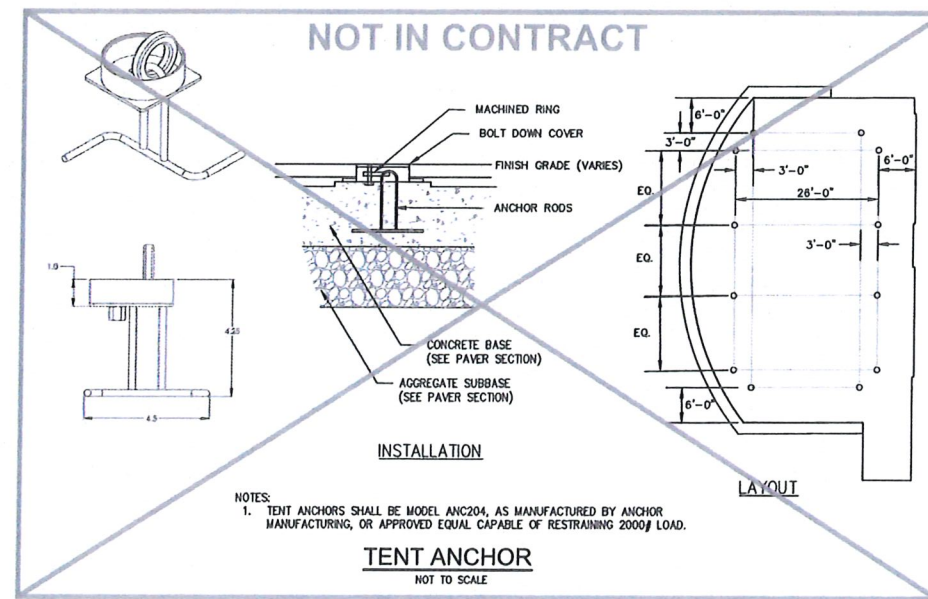


- SUB-SOIL FILLS SHALL BE COMPRISED OF SELECT GRANULAR MATERIALS, CLASSIFIED AS SM OR MORE GRANULAR BY ASTM D 2487 AND PLACED IN 12-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM STANDARD PROCTOR DENSITY AS DETERMINED BY THE MOISTURE-DENSITY RELATIONSHIP TEST METHOD ASTM D699.
- WITHIN SUBSOIL FILL AREAS, THE CONTRACTOR SHALL PROVIDE AT LEAST ONE COMPACTION TEST PER 100 LINEAR FEET, OR FRACTION THEREOF, OF EACH LIFT OF BACKFILL FOR ROADS. COMPACTION TESTING SHALL BE PERFORMED BY A ROOT VALIDATED COMMERCIAL TESTING LABORATORY.

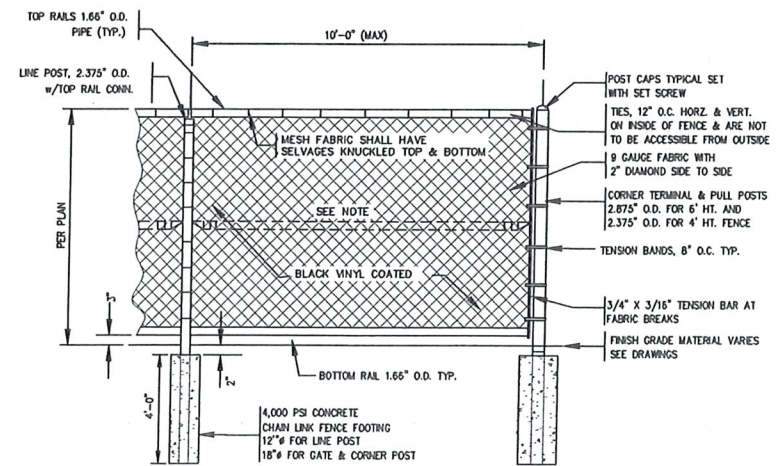
STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT SECTION (BCP)
NOT TO SCALE



CROSSWALK AND STOP BAR DETAIL
NOT TO SCALE

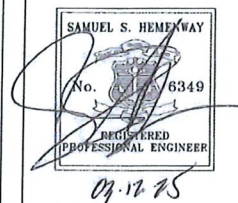


TENT ANCHOR
NOT TO SCALE



CHAIN LINK FENCE
NOT TO SCALE

Approved
APR 25 2025
City of Providence



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Education Center & Pavilion

ROGER WILLIAMS PARK ZOO
1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

CONFORMED/REVISED
ISSUED FOR PERMIT
MARCH 12, 2025

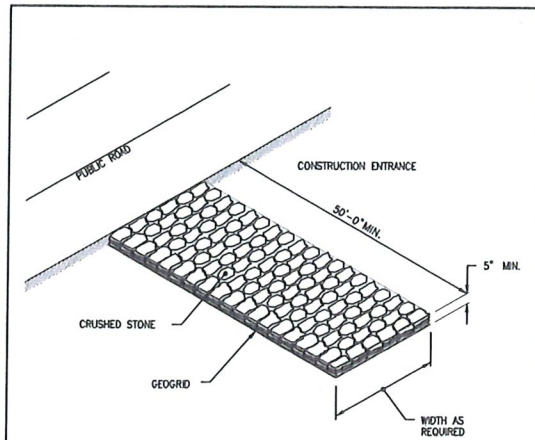
SHEET TITLE
CONSTRUCTION
DETAILS-2

DRAWN BY: KYY JOB NUMBER: 7213-00
CHECKED BY: SSH DATE: 09/19/2024

C-8.1

SHEET: 10 OF 13

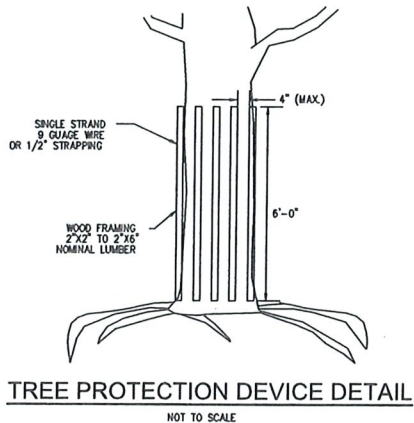
L:\2113-00 Roger Williams Park Zoo (Saccoccio) - Providence, R\1\2113-00-DETAILED.dwg 03/14/2025 10:07:07



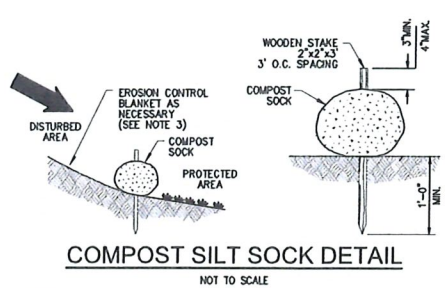
NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

REVISIONS		
NO.	BY	DATE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
CONSTRUCTION ACCESS
 JUNE 15, 1998
 R.I. STANDARD 9.9.0

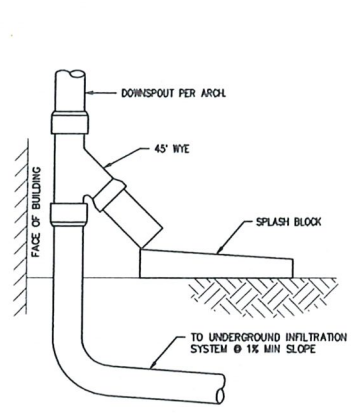


TREE PROTECTION DEVICE DETAIL
NOT TO SCALE

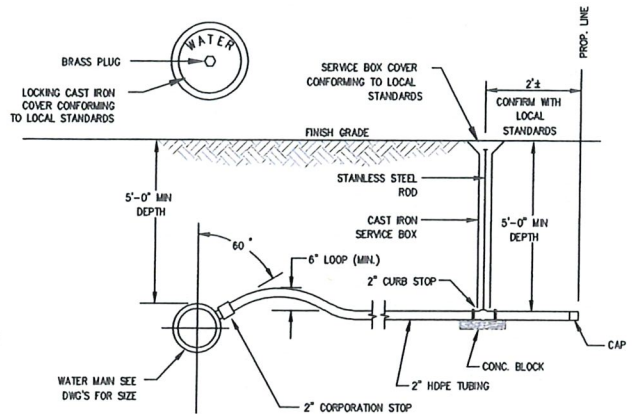


COMPOST SILT SOCK DETAIL
NOT TO SCALE

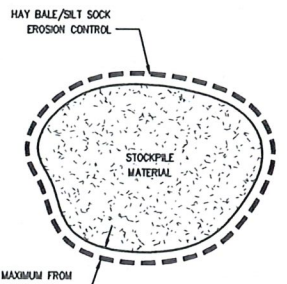
- NOTES:
1. COMPOST SOCK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. COMPOST SOCK SHALL BE A MINIMUM OF 6" IN DIAMETER.
 2. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 3. WHEN PLACING COMPOST SOCK ON SLOPES, USE EROSION CONTROL BLANKET IF SPECIFIED ON PLANS.
 4. ALWAYS INSTALL COMPOST SOCK PERPENDICULAR TO SLOPE AND ALONG CONTOUR LINES.
 5. REMOVE SEDIMENT FROM THE UP SLOPE SIDE OF THE COMPOST SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF THE EFFECTIVE HEIGHT OF THE COMPOST SOCK.



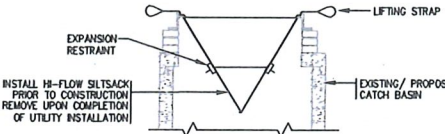
DOWNSPOUT CONNECTION WITH OVERFLOW
NOT TO SCALE



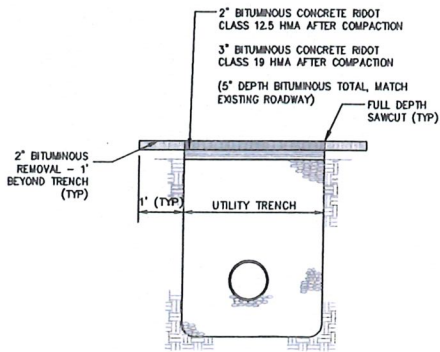
WATER SERVICE DETAIL
NOT TO SCALE



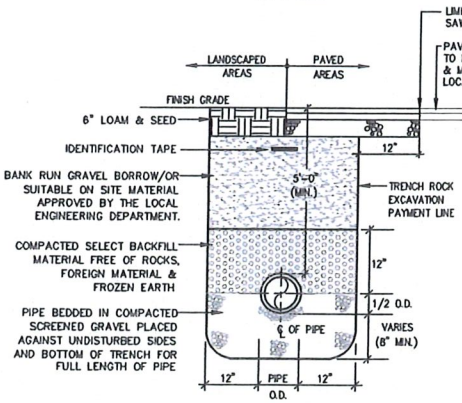
STOCKPILE DETAIL
NOT TO SCALE



SILTSACK® AT CATCH BASIN DETAIL
NOT TO SCALE

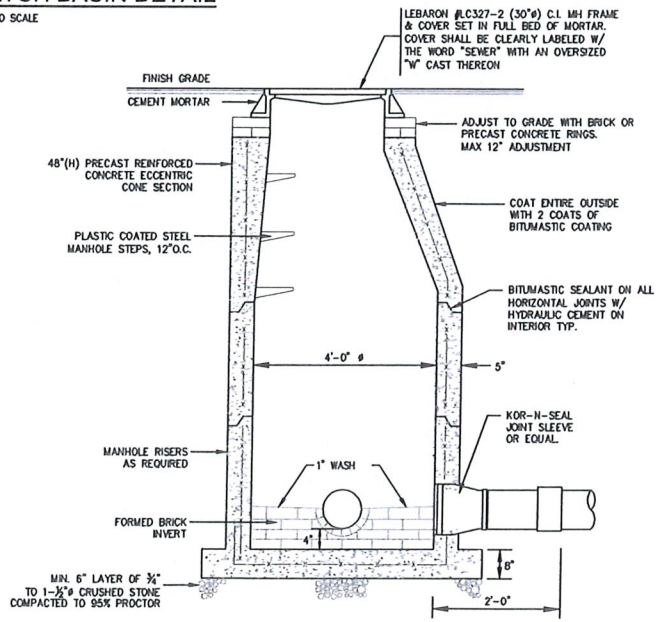


PAVEMENT RESURFACE
NOT TO SCALE

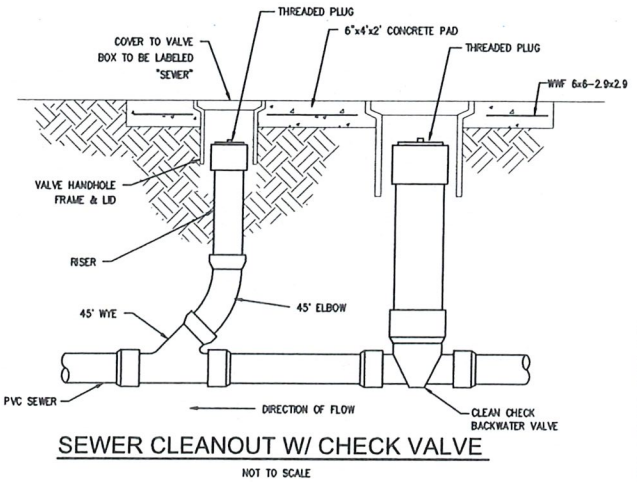


UTILITY TRENCH SECTION
NOT TO SCALE

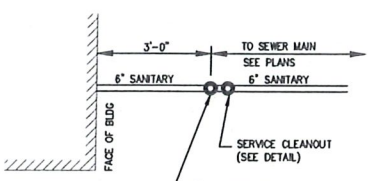
- NOTES:
1. METALIZED 2" WIDE DETECTABLE IDENTIFICATION TAPE SHALL BE INSTALLED OVER WATER LINES 12" BELOW FINISH GRADE.
 2. EXISTING FOUNDATION SHALL BE REMOVED TO 2" MINIMUM BELOW PROPOSED UTILITIES AND BACKFILLED WITH SELECT BACKFILL TO 95% DENSITY.
 3. PROVIDE TRENCH SHEETING & BRACING AS REQUIRED IN ACCORDANCE WITH O.S.H.A. REQUIREMENTS.
 4. ELECTRIC/TELEPHONE/CABLE MAINS AND SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY STANDARDS AND ALL APPLICABLE CODES.



SANITARY SEWER MANHOLE
NOT TO SCALE

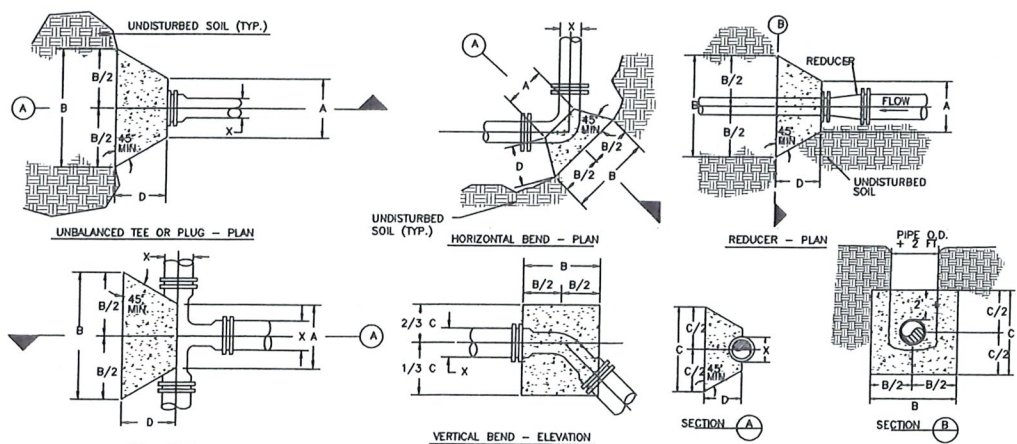


SEWER CLEANOUT W/ CHECK VALVE
NOT TO SCALE



PLAN VIEW OF BACKFLOW/CLEANOUT
NOT TO SCALE

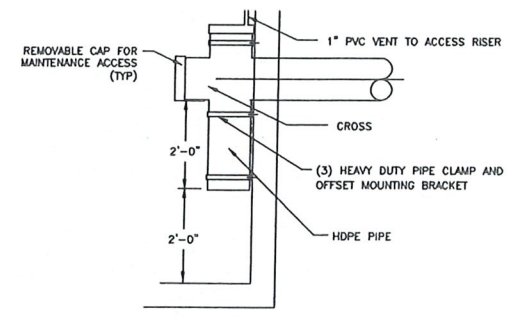
Approved
 APR 25 2025
 City of Providence



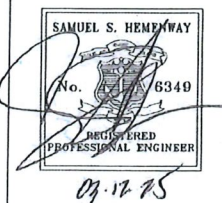
THRUST BLOCK DETAILS
NOT TO SCALE

Line Pressure = 150 PSI Soil Pressure = 2000 PSF					Line Pressure = 150 PSI Soil Pressure = 2000 PSF					Line Pressure = 150 PSI Soil Pressure = 2000 PSF							
Pipe Size X	A	B	C	D	Vol. CONC.	Pipe Size X	A	B	C	D	Vol. CONC.	Pipe Size X	A	B	C	D	Vol. CONC.
90 DEGREE BEND																	
8"	0'-10"	1'-11"	1'-11"	1'-0"	4.8 CF	8"	0'-10"	1'-0"	1'-0"	1'-0"	1.8 CF	8"	0'-10"	1'-8"	1'-8"	1'-3"	3.8 CF
8"	0'-10"	2'-7"	2'-7"	1'-8"	7.8 CF	8"	0'-10"	1'-4"	1'-4"	1'-0"	3.8 CF	8"	0'-10"	2'-2"	2'-2"	1'-3"	4.8 CF
12"	0'-10"	3'-10"	3'-10"	1'-8"	14.8 CF	12"	0'-10"	2'-0"	2'-0"	1'-0"	3.8 CF	12"	0'-10"	3'-3"	3'-3"	1'-3"	8.8 CF
45 DEGREE BEND																	
8"	0'-10"	1'-8"	1'-8"	1'-0"	2.8 CF	8"	0'-10"	0'-10"	0'-10"	1'-0"	2.78 CF	8"	0'-10"	1'-8"	1'-8"	1'-0"	1.8 CF
8"	0'-10"	1'-11"	1'-11"	1'-0"	3.8 CF	8"	0'-10"	1'-0"	1'-0"	1'-0"	1.8 CF	8"	0'-10"	1'-11"	1'-11"	1'-0"	1.8 CF
12"	0'-10"	2'-10"	2'-10"	1'-0"	5.8 CF	12"	0'-10"	1'-8"	1'-8"	1'-0"	2.8 CF	12"	0'-10"	2'-10"	2'-10"	1'-0"	2.8 CF

THRUST BLOCK DIMENSIONS



OIL/WATER SEPARATOR ELBOW
NOT TO SCALE

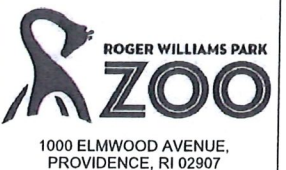


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 Consultant



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Education Center & Pavilion



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

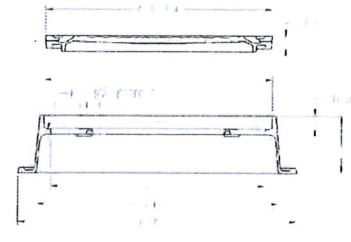
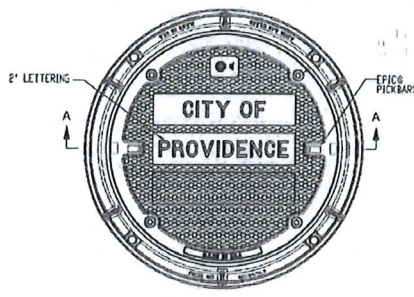
CONFORMED/REVISED
 ISSUED FOR PERMIT
 MARCH 12, 2025

SHEET TITLE
CONSTRUCTION DETAILS-3

DRAWN BY: KYY JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 08/19/2024

C-8.2

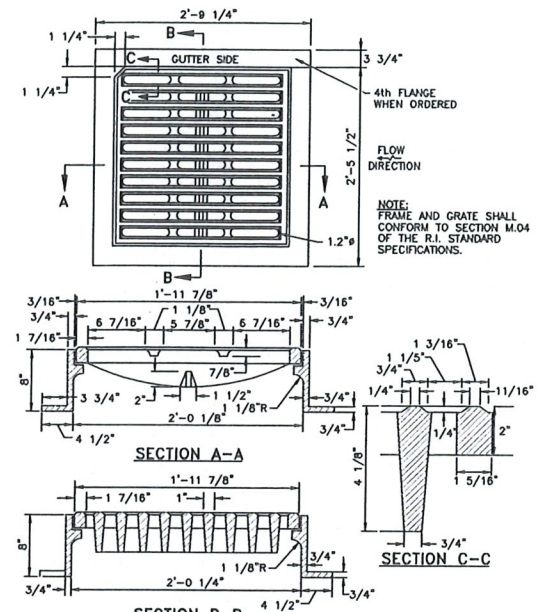
L:\7213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\Drawings\7213-00-DETAILS-3.dwg 03/14/2025 kenny 07:07



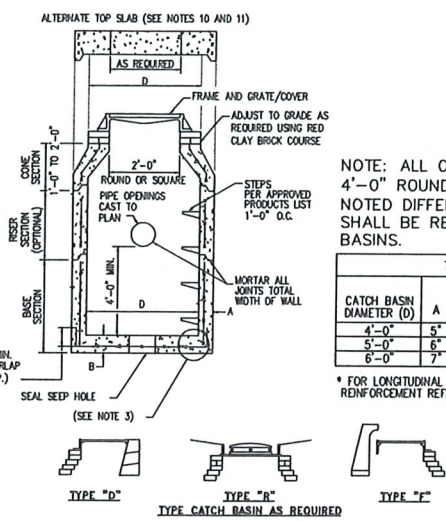
- Notes:
- Materials shall conform to Section M.04 of the Rhode Island Standard Specifications.
 - All materials shall be gray iron and shall be ASTM A8B certified.
 - Shall be El Product 70091W01 or approved equal.

HEAVY DUTY MANHOLE FRAME AND COVER-32 INCH
 6.27 P PROVIDENCE STANDARD

ISSUE DATE: 1/6/17



R.I. STANDARD 6.3.2
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
SQUARE FRAME AND GRATE
(BICYCLE SAFE)
 NOT TO SCALE



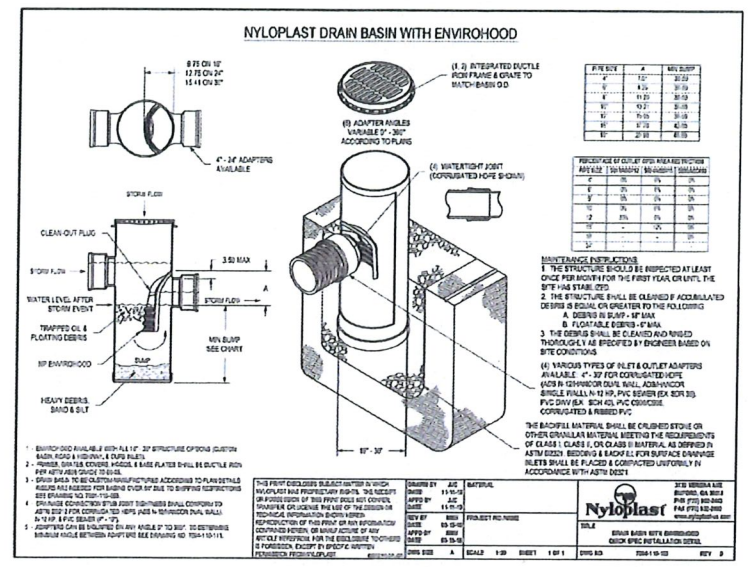
- NOTES:
- SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 - SEE TABLE 1 FOR STEEL REINFORCEMENT REQUIREMENTS.
 - STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).
 - STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.
 - ONE FOUR MONOLITHIC BASE SECTION.
 - ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
 - CORBEL MADE OF RED CLAY BRICK WILL BE PERMITTED FOR THE "CORE SECTION" OF THE 4'-0" CATCH BASIN ONLY.
 - FOR CATCH BASIN TYPES "D" AND "T" STEPS MUST BE INSTALLED ON THE CURB SIDE OF THE STRUCTURE.
 - THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
 - ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).
 - ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.
 - REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

R.I. STANDARD 4.4.0
PRECAST 4'-0", 5'-0", OR 6'-0"
ROUND CATCH BASIN
 NOT TO SCALE

NOTE: ALL CATCHBASINS SHALL BE 4'-0" ROUND W/ 4' SUMP UNLESS NOTED DIFFERENTLY. OIL/WATER SHALL BE REQUIRED ON ALL CATCH BASINS.

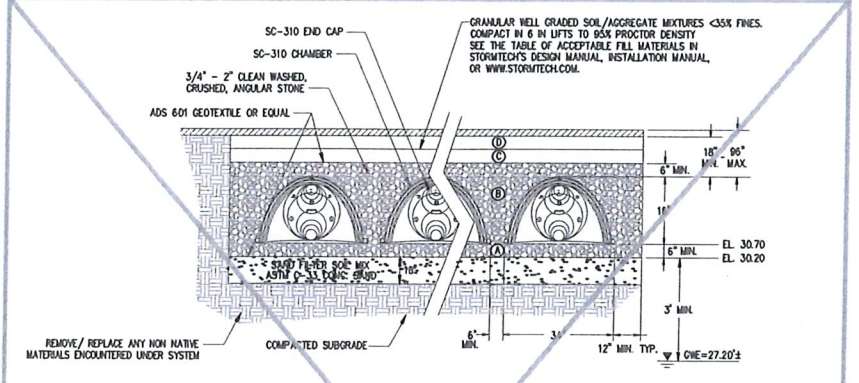
CATCH BASIN DIAMETER (D)	A	B	CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED
4'-0"	5"	6"	0.12 SQ. IN./LIN. FT.
5'-0"	6"	7"	0.15 SQ. IN./LIN. FT.
6'-0"	7"	8"	0.18 SQ. IN./LIN. FT.

* FOR LONGITUDINAL (VERTICAL STANDING) REINFORCEMENT REFER TO ASTM C478, ITEM 8.1.2

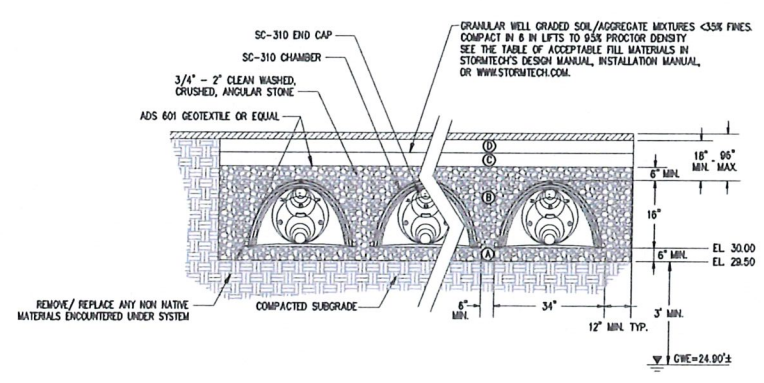


NYLOPLAST DRAIN BASIN WITH ENVIROHOOD
 NOT TO SCALE

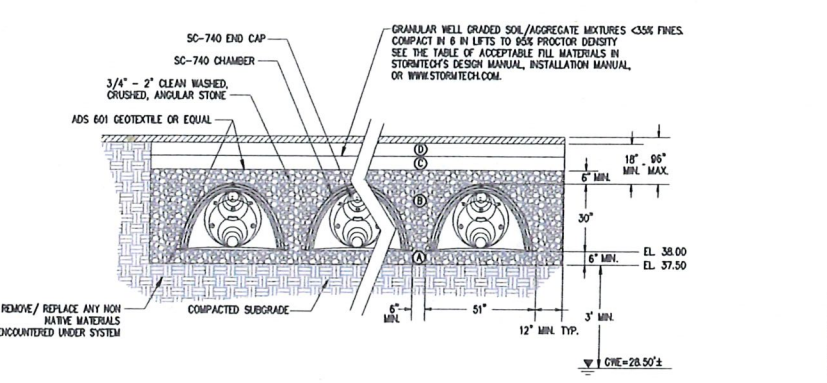
- CHAMBERS SHALL BE STORMTECH (SC-740 & SC-310, PER PLAN) OR APPROVED EQUAL.
- CHAMBERS SHALL BE MADE FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F 2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE ENGINEER WILL BE ALLOWED. THE CONTRACTOR SHALL SUBMIT (3 SETS) OF THE FOLLOWING TO THE ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
 - A STRUCTURAL EVALUATION BY A REGISTERED STRUCTURAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12 ARE MET.
 - STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL CROSS SECTION IS BASED.
- THE INSTALLATION OF CHAMBERS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST INSTALLATION INSTRUCTIONS.



STORMTECH STORMWATER (BMP-1)
SC-310 CHAMBER SYSTEM W/ 18" SAND LAYER
 NOT TO SCALE



STORMTECH STORMWATER (BMP-2)
SC-310 CHAMBER SYSTEM
 NOT TO SCALE

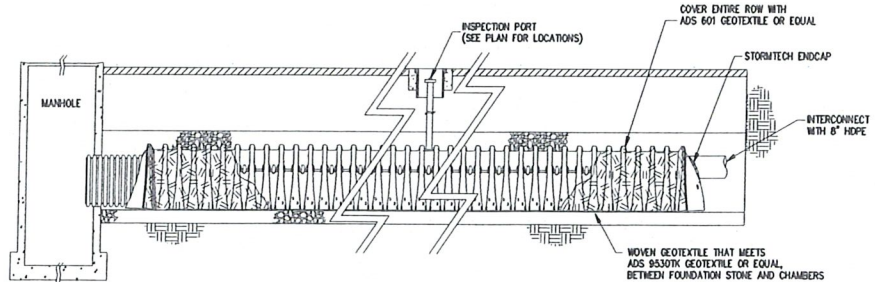


STORMTECH STORMWATER (BMP-3)
SC-740 CHAMBER SYSTEM
 NOT TO SCALE

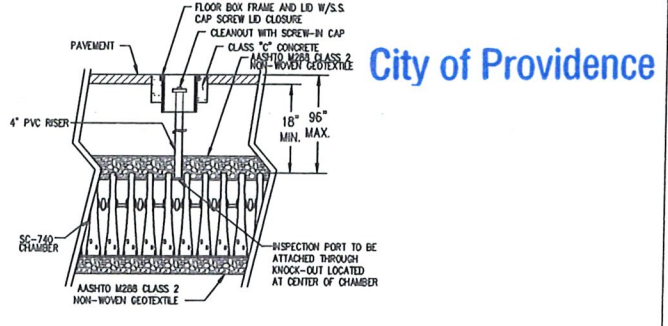
ACCEPTABLE FILL MATERIALS: SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
① FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISH GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THIS LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
② FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (457 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THIS LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, < 35% FINES. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	3, 357, 4, 407, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION AFTER 12" (305 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (152 mm) LIFTS TO A MIN. 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
③ EMBEDMENT STONE SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN WASHED, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3, 357, 4, 407, 5, 56, 57	NO COMPACTION REQUIRED
④ FOUNDATION STONE BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN WASHED, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4 - 2 INCH (19 - 51 mm)	3, 35, 4, 407, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN WASHED, CRUSHED, ANGULAR FOR EXAMPLE, E. A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN WASHED, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
 - AS AN ALTERNATE TO PROCTOR TESTING AND FIELD DENSITY MEASUREMENTS ON OPEN GRADED STONE, STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (229 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH AN APPROPRIATE COMPACTOR.



ISOLATOR CHAMBER ROW DETAIL
 NOT TO SCALE



STORMTECH CHAMBER SYSTEM
INSPECTION PORT DETAIL
 NOT TO SCALE

Approved
APR 25 2025
City of Providence

SAMUEL S. HEMENWAY
 No. 8349
 REGISTERED PROFESSIONAL ENGINEER
 09-12-25

ARCHITECTS

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 1085 Park Avenue
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 tel 401.942.7970
 fax 401.942.7975

Consultant

GROFALO
 GAROFALO & ASSOCIATES, INC.
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS
 P.O. BOX 6145 PROVIDENCE, R.I. 02940
 1-401-273-6000

Education Center & Pavilion

ROGER WILLIAMS PARK ZOO
 1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02807

Revision Schedule	
Revision Number	Revision Date

CONFORMED/REVISED
 ISSUED FOR PERMIT
 MARCH 12, 2025

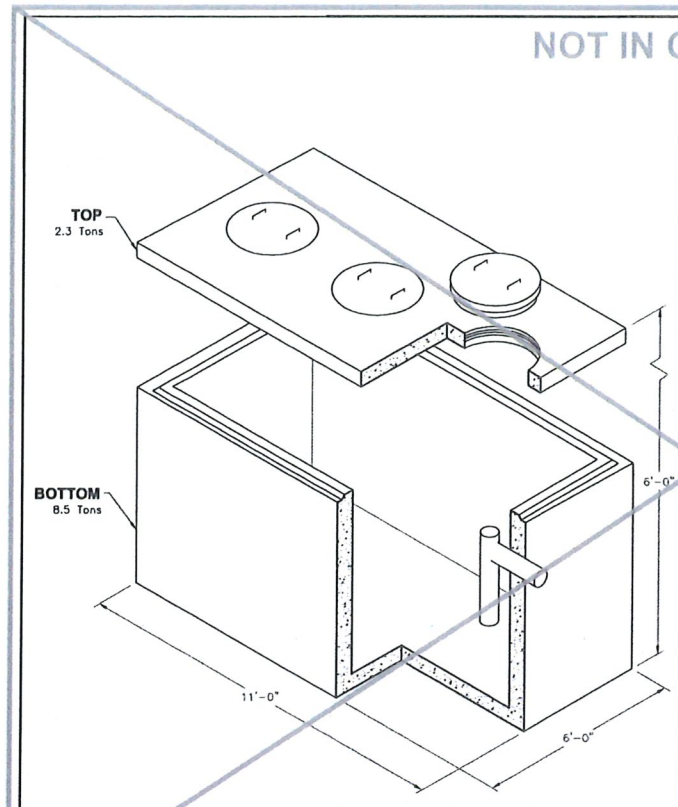
SHEET TITLE
CONSTRUCTION
DETAILS-4

DRAWN BY: KYY JOB NUMBER: 7213-00
 CHECKED BY: SSH DATE: 08/19/2024

C-8.3

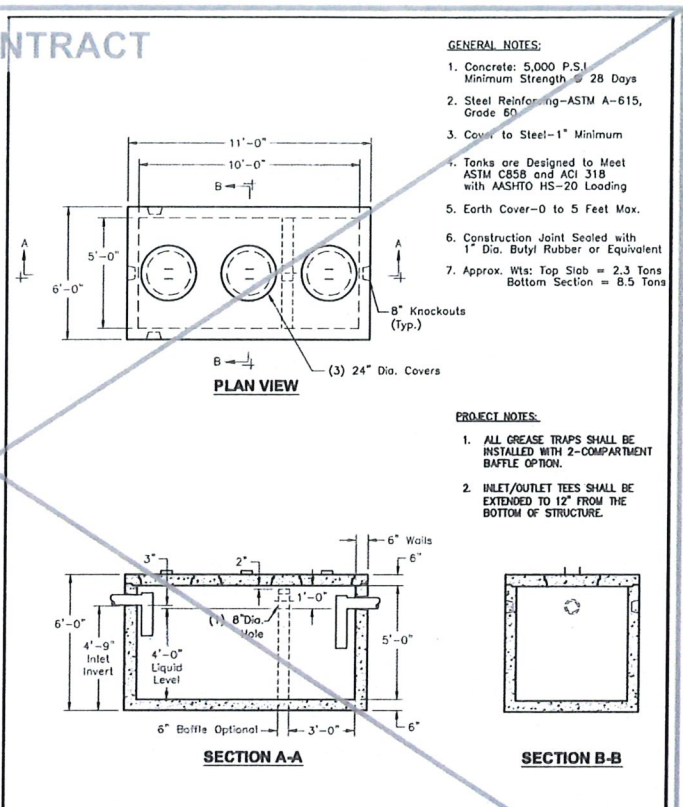
SHEET: 12 OF 13

L:\213-00 Roger Williams Park Zoo (Saccoccio) - Providence, RI\Views\01 - Current\213-00 - DETAILS - 4.dwg DJ/1/2025 karunda 07:08



Oldcastle Precast	CST-1500	5'-0" x 10'-0" x 5'-0" I.D.
	FILE NAME: 324ESCST1500_ISO.DWG	Septic Tank
	ISSUE DATE: January, 2008	1,500 Gallon Capacity
	www.oldcastleprecast.com	Copyright © 2008 Oldcastle Precast

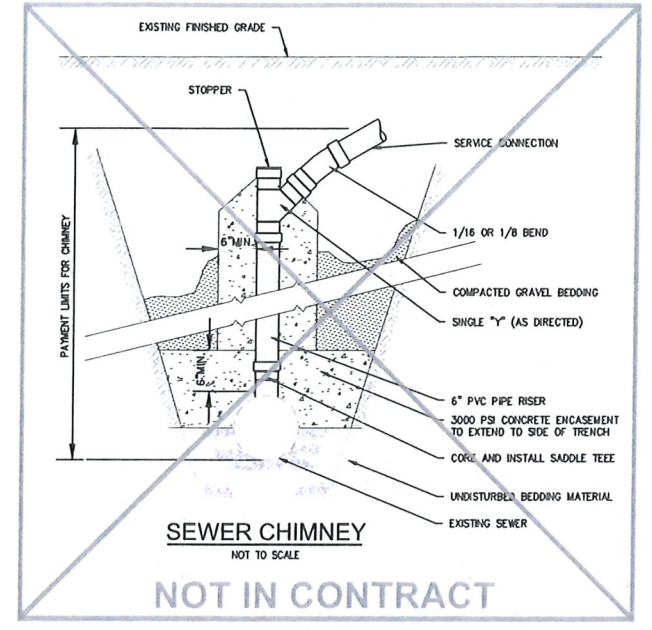
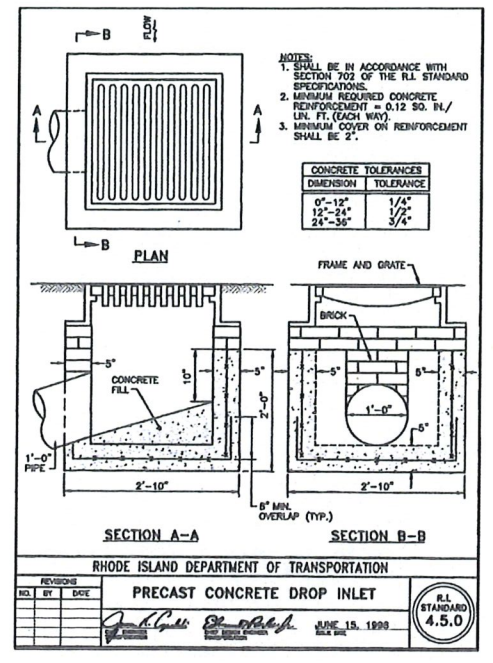
NOT IN CONTRACT



Oldcastle Precast	CST-1500	5'-0" x 10'-0" x 5'-0" I.D.
	FILE NAME: 324ESCST1500_DET.DWG	Septic Tank
	ISSUE DATE: January, 2008	1,500 Gallon Capacity
	www.oldcastleprecast.com	Copyright © 2008 Oldcastle Precast

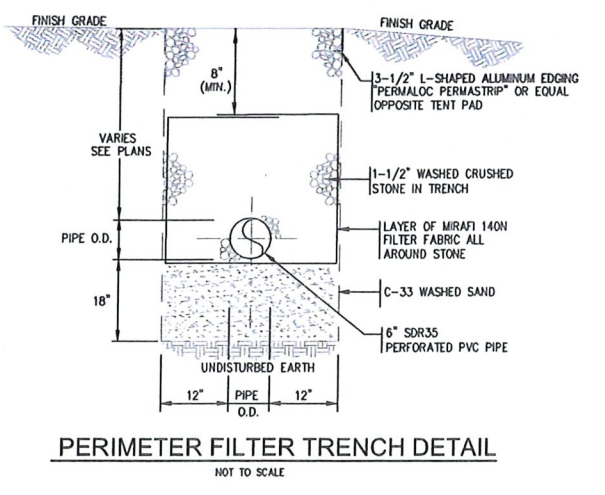
- GENERAL NOTES:**
- Concrete: 5,000 P.S.I. Minimum Strength, 28 Days
 - Steel Reinforcing-ASTM A-615, Grade 60
 - Cover to Steel-1" Minimum
 - Tanks are Designed to Meet ASTM C858 and ACI 318 with AASHTO HS-20 Loading
 - Earth Cover-0 to 5 Feet Max.
 - Construction Joint Sealed with 1" Dia. Butyl Rubber or Equivalent
 - Approx. Wts: Top Slab = 2.3 Tons Bottom Section = 8.5 Tons

- PROJECT NOTES:**
- ALL GREASE TRAPS SHALL BE INSTALLED WITH 2-COMPARTMENT BAFFLE OPTION.
 - INLET/OUTLET TEES SHALL BE EXTENDED TO 12" FROM THE BOTTOM OF STRUCTURE.

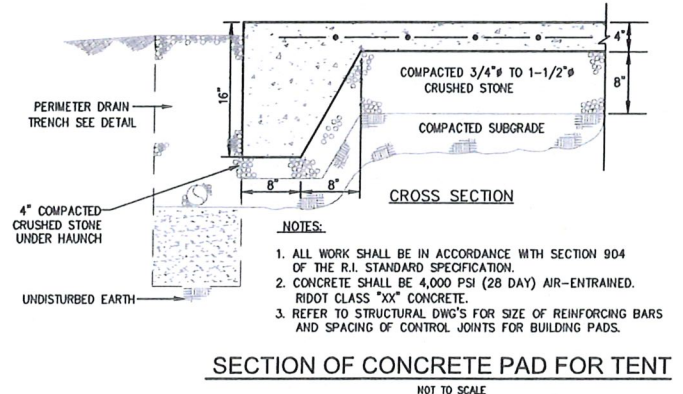


SEWER CHIMNEY
NOT TO SCALE

NOT IN CONTRACT



PERIMETER FILTER TRENCH DETAIL
NOT TO SCALE



SECTION OF CONCRETE PAD FOR TENT
NOT TO SCALE

- NOTES:**
- ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATION.
 - CONCRETE SHALL BE 4,000 PSI (28 DAY) AIR-ENTRAINED, RIDOT CLASS "XX" CONCRETE.
 - REFER TO STRUCTURAL DWG'S FOR SIZE OF REINFORCING BARS AND SPACING OF CONTROL JOINTS FOR BUILDING PADS.

SAMUEL S. HEMENWAY
No. 6349
REGISTERED PROFESSIONAL ENGINEER
07-12-25

SZ ARCHITECTS

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GROFALO
GAROFALO & ASSOCIATES, INC.
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P.O. BOX 6145 PROVIDENCE, R.I. 02940
1-401-273-6000

Education Center & Pavilion

ZOO
ROGER WILLIAMS PARK
1000 ELMWOOD AVENUE,
PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

CONFORMED/REVISED
ISSUED FOR PERMIT
MARCH 12, 2025

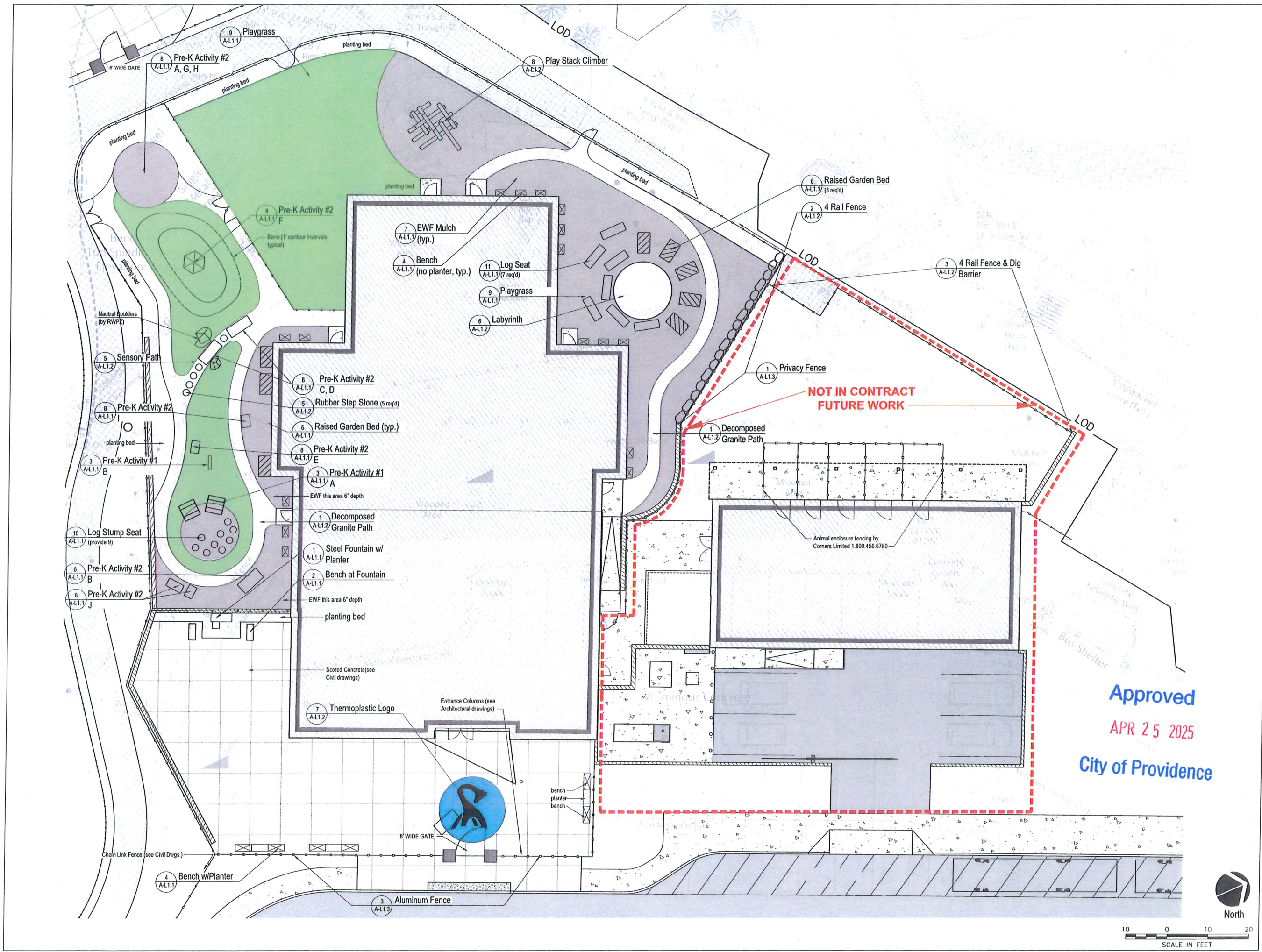
SHEET TITLE
CONSTRUCTION
DETAILS-5

DRAWN BY: KYJ	JOB NUMBER: 7213-00
CHECKED BY: SSH	DATE: 08/19/2024

C-8.4

Approved
APR 25 2025
City of Providence

L:\213-00 Roger Williams Park (Saccoccio) - Providence, RI\Work\213-00-DETAILS_3.dwg 03/14/2025 kprusa 07:08

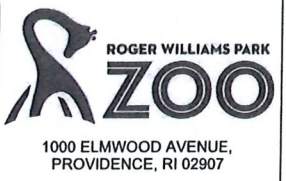


Approved
 APR 25 2025
 City of Providence

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 Cranston, Rhode Island 02910
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 fax 401.942.7975

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 www.dianesouleandassociates.com
 401.231.9755
 email: diane@dcswa.com

Education Center & Pavilion



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

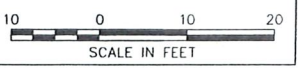
ISSUED FOR CONSTRUCTION
 AUGUST 19, 2024

SHEET TITLE
EDUCATION CENTER
MATERIALS & LAYOUT PLAN

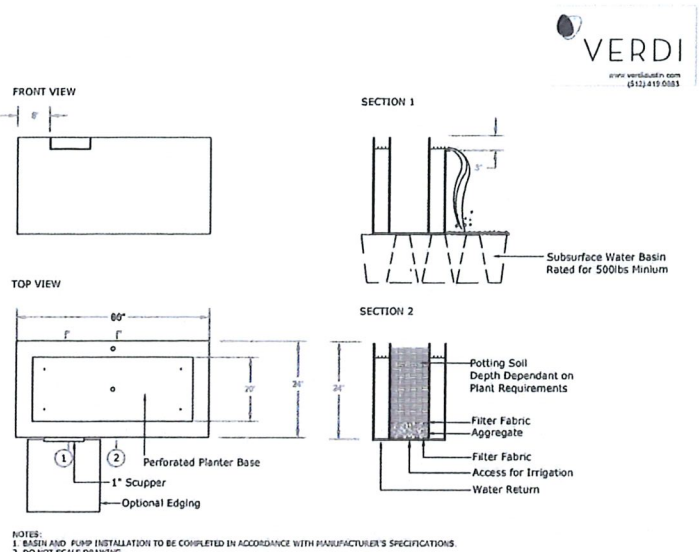
DRAWN BY: DCS JOB NUMBER: 7213-00
 CHECKED BY: DCS DATE: 08/19/2024

A-L1.0

SHEET: X OF: X

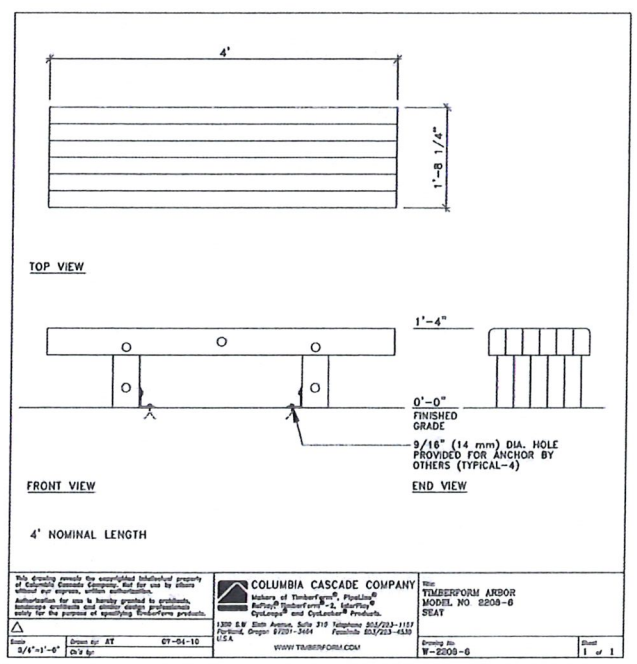


- SELECT DESIRED FINISH AND SIZE:
 - RECTANGLE (SHOWN)
 - SMALL 35" L X 18" W X 24" H
 - LARGE 48" L X 24" W X 24" H
 - CUSTOM: 60" L X 24" W X 24" H
 - SQUARE
 - SMALL 24" L X 24" W X 12" H
 - MEDIUM 30" L X 30" W X 18" H
 - LARGE 48" L X 48" W X 24" H
- SELECT DESIRED MATERIAL:
 - STEEL
 - ALUMINUM
- SELECT DESIRED COLOR:
 - NATURAL STEEL
 - POWDER COATED BLACK
 - POWDER COATED BRONZE
 - CUSTOM
- ADDITIONAL FEATURE:
 - WATER FALL EDGE - 6" STEEL

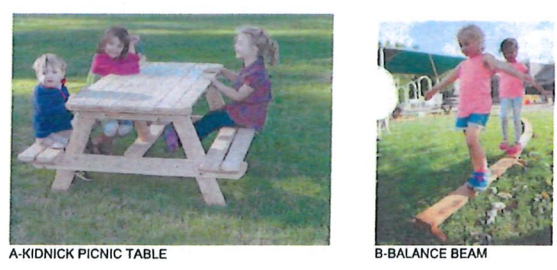


NOTES:
 1. BASIN AND PUMP INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

1 STEEL FOUNTAIN WITH PLANTER
NO SCALE



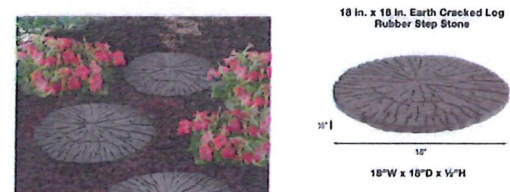
2 BENCH AT FOUNTAIN
NO SCALE



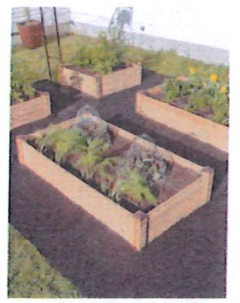
A-KIDNICK PICNIC TABLE
 B-BALANCE BEAM
 SUPPLIER: CedarWorks
 www.cedarworks.com
 (800) 733-6711
 (207) 593-0527
 or approved substitute

3 PRE-K ACTIVITY #1
NO SCALE

4 BENCH
NO SCALE



5 RUBBER STEP STONE
NO SCALE



6 RAISED GARDEN BED
NO SCALE

NOTE: DEPTH OF EWF IN OUTDOOR ACTIVITY YARD IS 12" AFTER COMPACTION. DEPTH OF EWF IN PRE-K YARD IS 4" AFTER COMPACTION.
 EWF (Engineered Wood Fiber Playground Surfacing) must meet the following requirements:
 1. Composition: Engineered wood fiber. No chemical treatments or additives.
 2. Compliance: Meet or exceed CPSC guidelines for impact attenuation.
 3. Recycled Content: 100 percent pre-consumer recovered materials.
 4. Dimensions: Per above analysis, ASTM F 2075/14.4.
 5. Hazardous Metal: ASTM F 2075/4.5.
 6. Frang Metal: ASTM F 2075/4.6.
 7. Coefficient of Permeability: ASTM D 2434. Greater than 0.6 cm/s.
 8. When bonded: Permeability per falling head test: EM1110-2 1906-VII-13. 191.19 gal/min/ft².
 9. Moisture Absorption: Maximum of 150 percent by weight.
 10. Moisture Content: 25 to 60 percent by weight.
 11. Density: 15 to 24 pounds per cubic foot.
 12. Impact Attenuation: ASTM F 1292.
 13. IFEMA Certification: 8 inch thickness related to 8 feet and 12 inch thickness to 12 feet.

7 EWF MULCH
3/4" = 1'-0"

WWW.NICEPLANTER.COM
 Nice Planter LLC
 Rancho Cucamonga, CA
 P. 208.486.0938
 E. info@niceplanter.com

SUPPLIER:
 THE HOME DEPOT
 WWW.HOMEDEPOT.COM
 or approved substitute

SUPPLIER:
 GARDENER'S SUPPLY COMPANY
 WWW.GARDENERS.COM
 or approved substitute



A-FORT BUILDING ACTIVITY CENTER B-WATER WORKS CENTER C-OUTLAST BRIDGE D-RAMP



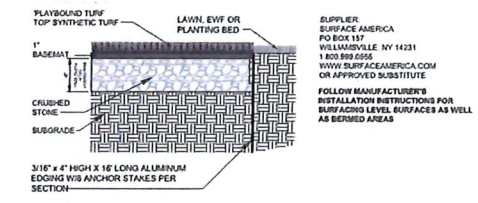
E-ART CENTER F-WILLOW HUT G-FORT BUILDING MATERIAL STORAGE



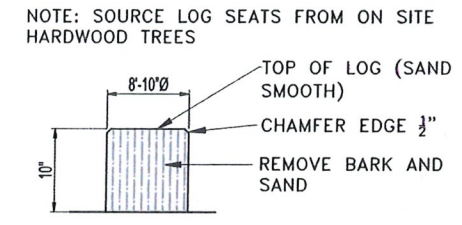
H-FORT BUILDING MATERIALS I-GARDEN ACTIVITY CENTER J-MUD KITCHEN

SUPPLIER:
 LOUISE KOOL & GALT
 WWW.LOUISEKOOL.COM
 1.800.268.4011
 or approved substitute

8 PRE-K ACTIVITY #2
NO SCALE

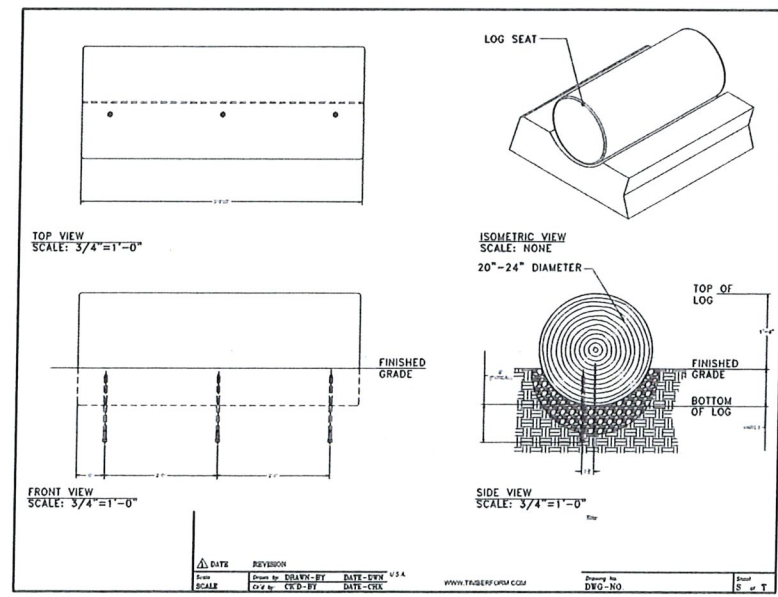


9 PLAYGRASS
3/4" = 1'-0"



10 LOG STUMP SEAT
3/4" = 1'-0"

NOTE: SOURCE LOG SEATS FROM ON SITE HARDWOOD TREES



11 LOG SEAT
NO SCALE

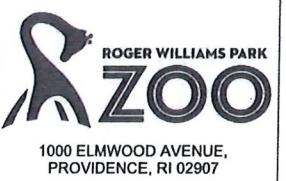
Approved
 APR 25 2025
 City of Providence



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 Cranston, Rhode Island 02910
 tel 401.942.7970
 fax 401.942.7975

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 Landscape Architecture
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 Smithfield, Rhode Island 02917
 www.dianesouleandassociates.com
 401.231.0700
 email: diane@dcasw.com

Education Center & Pavilion



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

ISSUED FOR CONSTRUCTION
 AUGUST 19, 2024

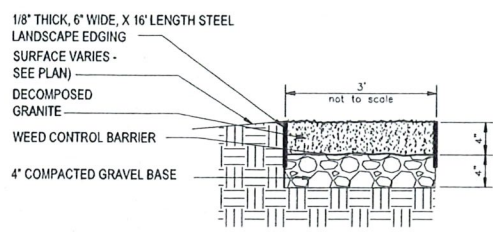
SHEET TITLE
 EDUCATION CENTER
 DETAILS

DRAWN BY: DCS JOB NUMBER: 7213-00
 CHECKED BY: DCS DATE: 08/19/2024

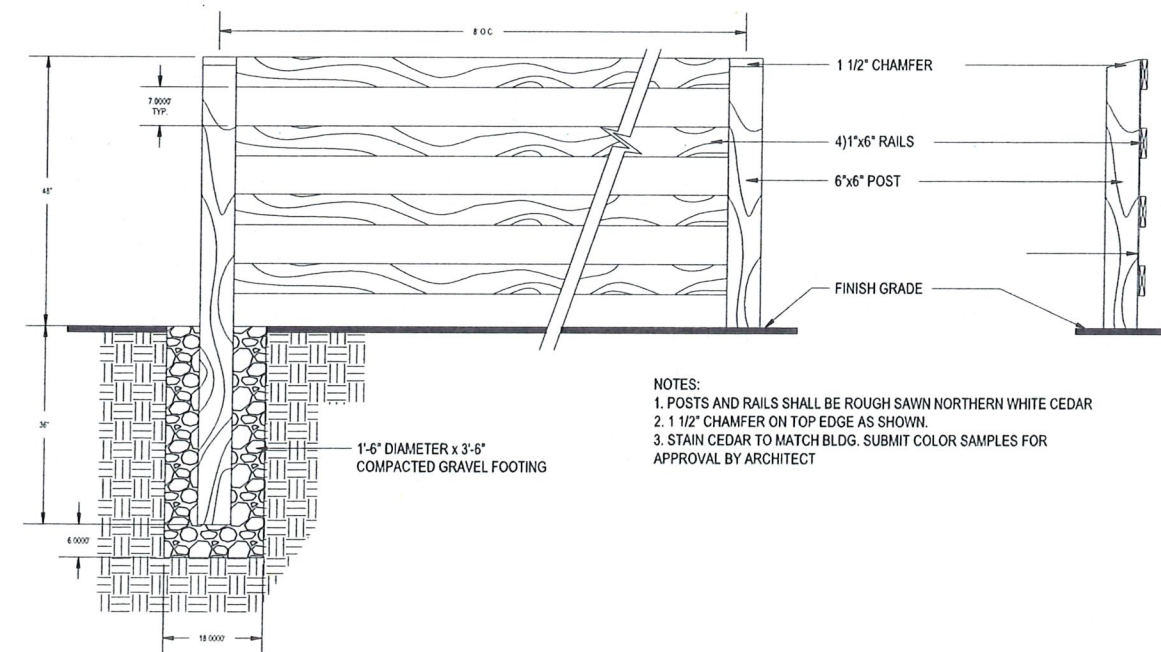
A-L1.1

SHEET: X OF: X

NOTES:
 1. BLACK POWDER-COAT FINISH
 2. MANUFACTURED BY THE J.D. RUSSELL COMPANY 'DURAEDGE STEEL LANDSCAPE EDGING'
 1.800.888.7425 OR APPROVED SUBSTITUTE



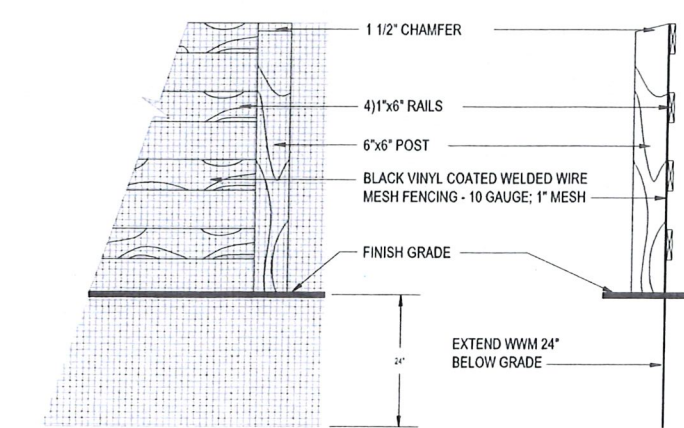
1 DECOMPOSED GRANITE PATH
NO SCALE



2 4 RAIL FENCE
3/4\"/>

NOTES:
 1. POSTS AND RAILS SHALL BE ROUGH SAWN NORTHERN WHITE CEDAR
 2. 1 1/2\"/>

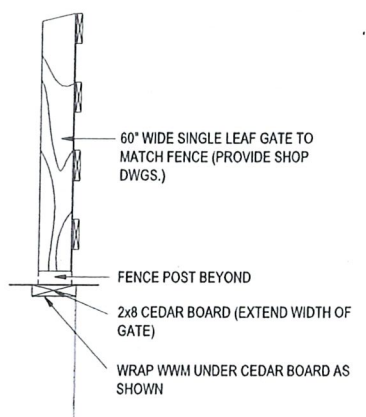
NOTE: SEE DETAIL ABOVE FOR FENCE DIMENSIONS



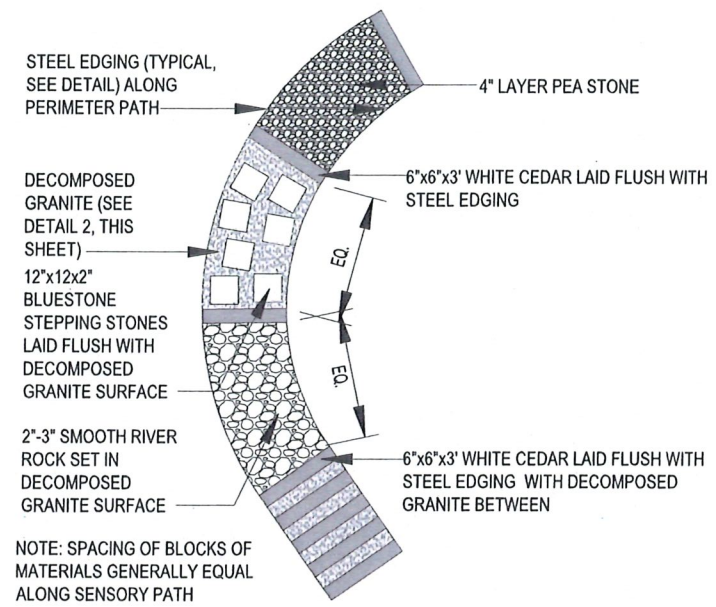
3 4 RAIL FENCE & DIG BARRIER
3/4\"/>

FENCE DETAIL

NOTE: SEE 4 RAIL FENCE DETAIL FOR FENCE FOOTING

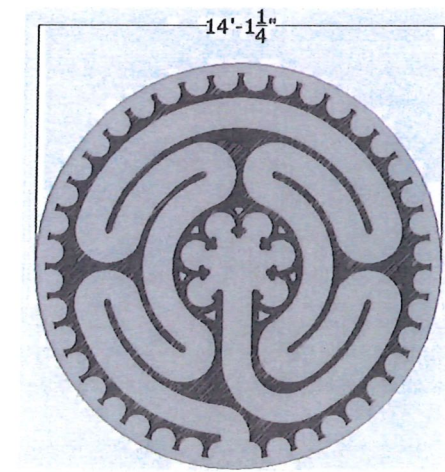


GATE DETAIL



5 SENSORY PATH
NO SCALE

NOTE: SPACING OF BLOCKS OF MATERIALS GENERALLY EQUAL ALONG SENSORY PATH



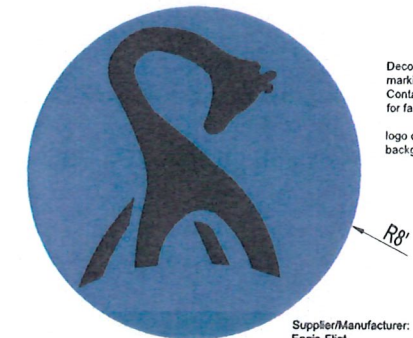
Avalon a' la Chartres™ Paver Labyrinth Kit ©1998, 2022 by The Labyrinth Company. All Rights Reserved.

The Labyrinth Company
 110 N. Markley St. #208
 Greenville SC 29601
 1-888-715-2297
 203-832-3815
 Info@LabyrinthCompany.com

6 LABYRINTH
NO SCALE
Approved

APR 25 2025

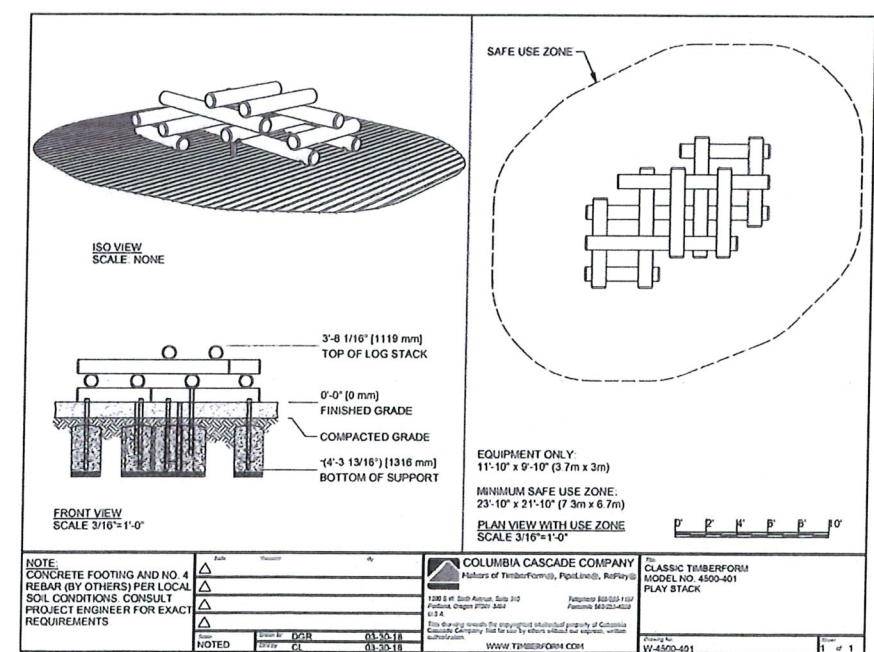
City of Providence



7 THERMOPLASTIC LOGO
NO SCALE

DecoMark thermoplastic pavement marking
 Contact Robert Pea 207.333.0822 for fabrication
 logo color: sky blue
 background color: white

Supplier/Manufacturer:
 Ennis-Fint
 1.800.331.8118
 www.ennisfint.com



8 PLAY STACK CLIMBER
NO SCALE

NOTE: CONCRETE FOOTING AND NO. 4 REBAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS	<table border="1"> <tr><th>NO.</th><th>DESCRIPTION</th><th>DATE</th></tr> <tr><td>1</td><td>ISSUED FOR CONSTRUCTION</td><td>03-15-18</td></tr> <tr><td>2</td><td>REVISION</td><td>03-15-18</td></tr> </table>	NO.	DESCRIPTION	DATE	1	ISSUED FOR CONSTRUCTION	03-15-18	2	REVISION	03-15-18	COLUMBIA CASCADE COMPANY (Manufacturers of TimberForm®), PipeLine®, and Play® 1288 S. W. 5th Avenue, Suite 303 Pompano Beach, FL 33062 954-781-1111 www.columbiacascade.com	CLASSIC TIMBERFORM® MODEL NO. 4500-401 PLAY STACK
NO.	DESCRIPTION	DATE										
1	ISSUED FOR CONSTRUCTION	03-15-18										
2	REVISION	03-15-18										



Saccoccio & Associates, Inc.
 1085 Park Avenue
 Cranston, Rhode Island 02910
 tel 401.942.7970
 fax 401.942.7975
 Consultant

Diana C. Scouff & Associates, ABLA
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 Smithfield, Rhode Island 02917
 www.dianascouffandassociates.com
 401.231.6226
 email: dscouff@dcas.com

Education Center & Pavilion



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

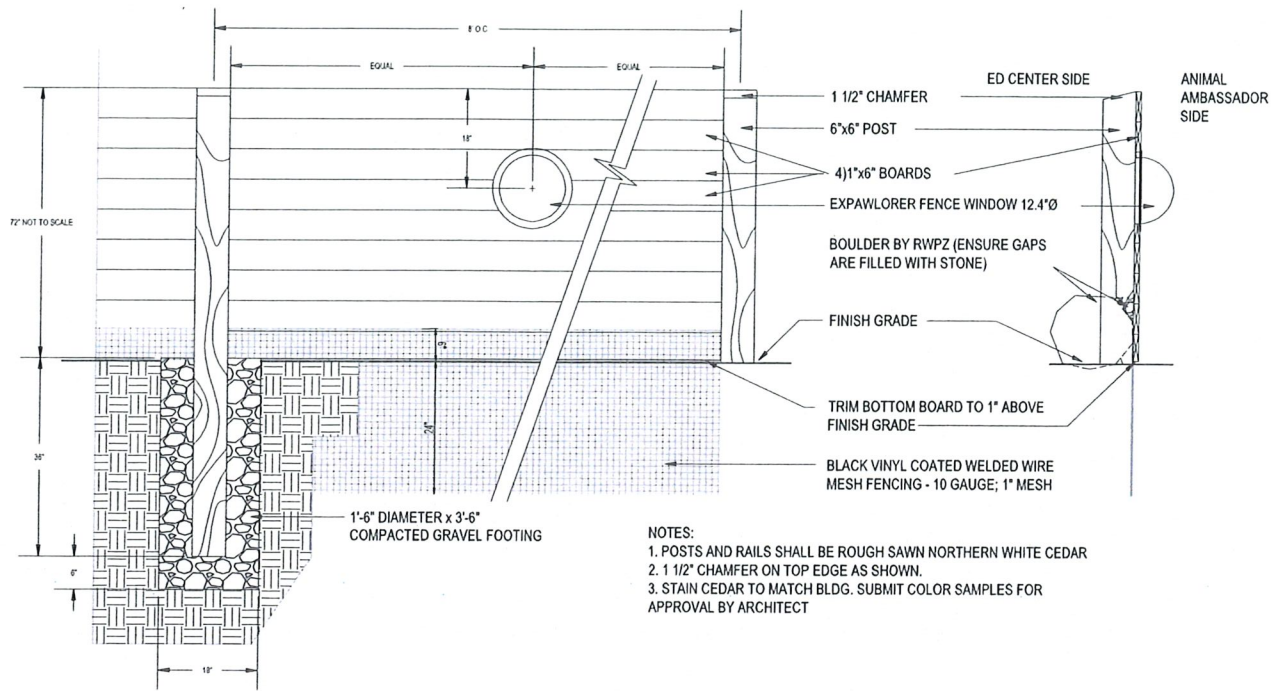
ISSUED FOR CONSTRUCTION
 AUGUST 19, 2024

SHEET TITLE
 EDUCATION CENTER
 DETAILS

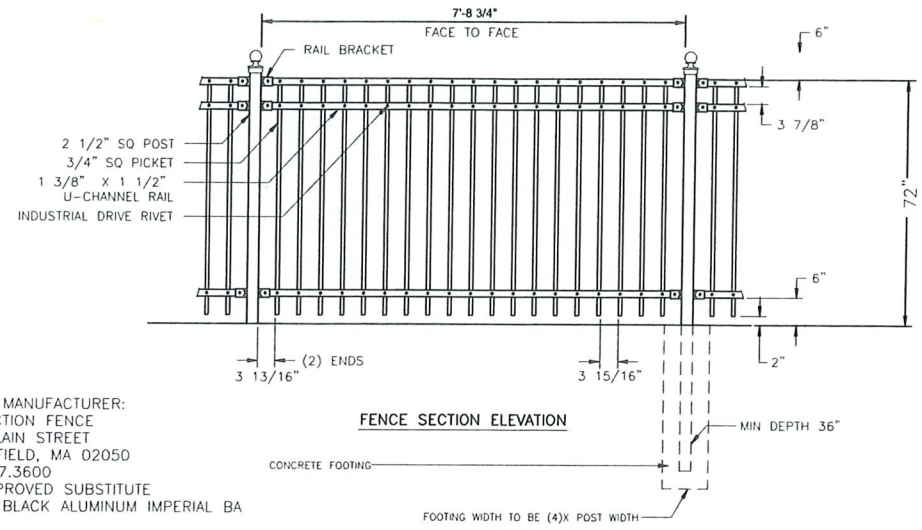
DRAWN BY: DCS JOB NUMBER: 7213-00
 CHECKED BY: DCS DATE: 08/19/2024

A-L1.2

SHEET: X OF: X



NOTES:
 1. POSTS AND RAILS SHALL BE ROUGH SAWN NORTHERN WHITE CEDAR
 2. 1 1/2" CHAMFER ON TOP EDGE AS SHOWN.
 3. STAIN CEDAR TO MATCH BLDG. SUBMIT COLOR SAMPLES FOR APPROVAL BY ARCHITECT

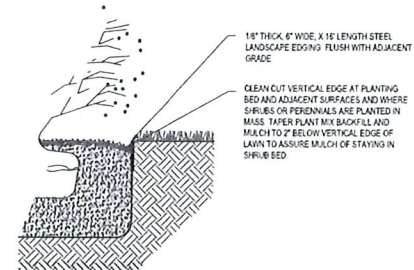


FENCE MANUFACTURER:
 PERFECTION FENCE
 635 PLAIN STREET
 MARSHFIELD, MA 02050
 781.837.3600
 OR APPROVED SUBSTITUTE
 STYLE: BLACK ALUMINUM IMPERIAL BA

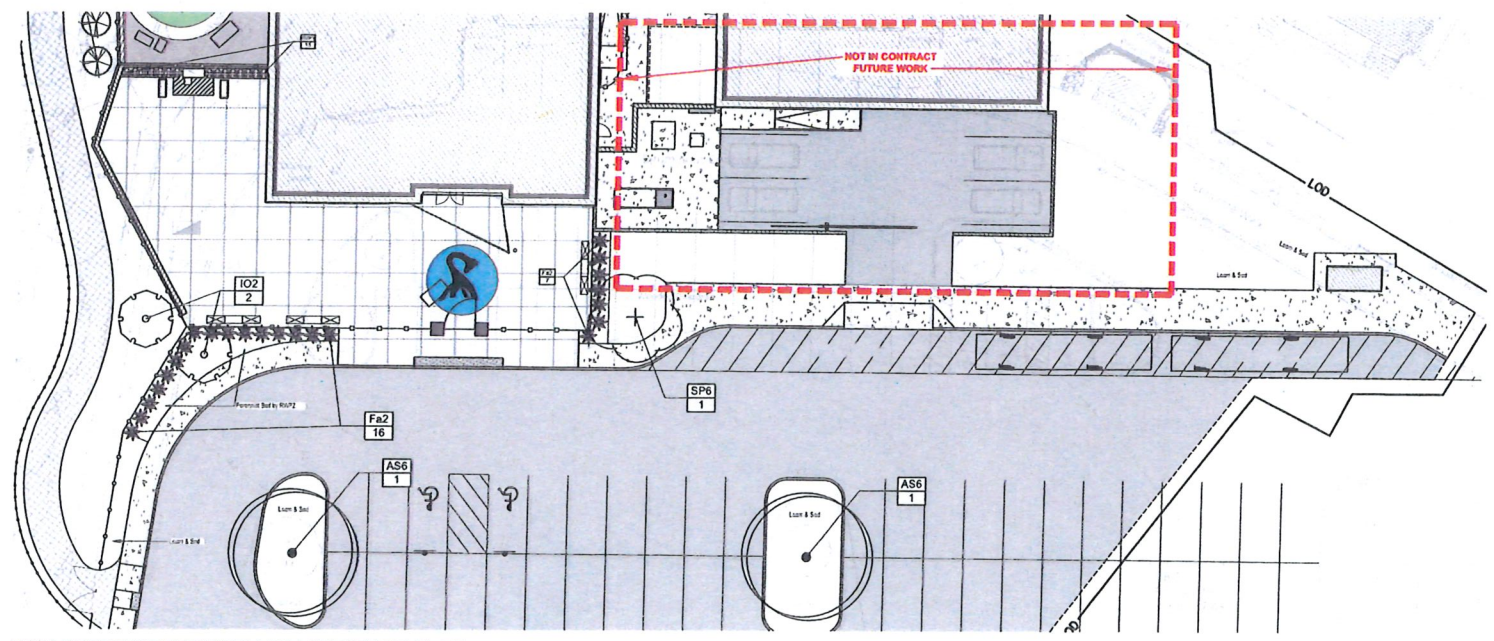
NOTE:
 CONTACT FENCE MANUFACTURER FOR INSTALLATION DETAILS. PROVIDE GATES AS SHOWN ON PLAN TO MATCH FENCE. SUBMIT SHOP DRAWINGS FOR APPROVAL.

3 ALUMINUM FENCE
 NO SCALE

1 PRIVACY FENCE
 3/4" = 1'-0"



2 BED EDGE
 NO SCALE



MAIN ENTRANCE PARKING LOT LANDSCAPE PLAN
 1"=20'

Approved
 APR 25 2025
 City of Providence



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 fax 401.942.7975

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 www.dianesouleandassociates.com
 401.291.0726
 email: dcsa@csa.us

Education Center & Pavilion



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 PROVIDENCE, RI 02907

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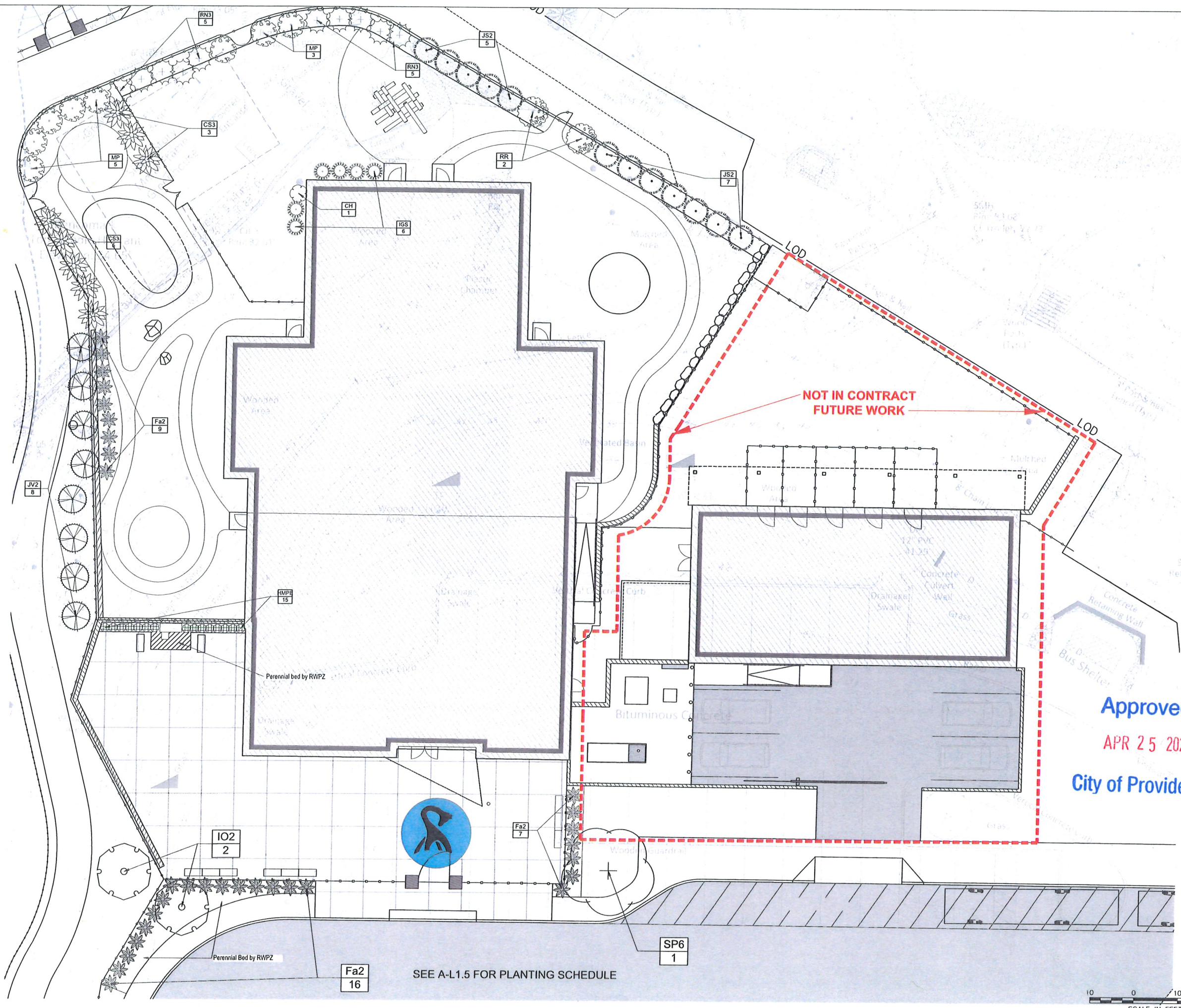
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 AUGUST 19, 2024

SHEET TITLE
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 DETAILS

DRAWN BY: DCS JOB NUMBER: 7213-00
 CHECKED BY: DCS DATE: 08/19/2024

A-L1.3

SHEET: X OF: X



SEE A-L1.5 FOR PLANTING SCHEDULE

Approved
 APR 25 2025
 City of Providence



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Education Center & Pavilion



1000 ELMWOOD AVENUE,
 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

ISSUED FOR CONSTRUCTION
 AUGUST 19, 2024

SHEET TITLE
EDUCATION CENTER
LANDSCAPE PLAN

DRAWN BY: DCS JOB NUMBER: 7213-00
 CHECKED BY: DCS DATE: 08/19/2024

A-L1.4

SHEET: X OF: X

PLANT SCHEDULE - PROJECT WIDE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER
DECIDUOUS TREES					
	AS6	2	Acer saccharum 'Green Mountain' TM / Green Mountain Sugar Maple	B & B	2' Cal
EVERGREEN TREES					
	IO2	8	Ilex opaca / American Holly	B & B	
	JS2	12	Juniperus chinensis 'Spartan' / Spartan Juniper	B & B	
	JVB	4	Juniperus virginiana / Eastern Red Cedar	B & B	
	JV2	8	Juniperus virginiana / Eastern Red Cedar	B & B	
FLOWERING TREES					
	Pc14	4	Prunus virginiana / Chokecherry	B&B; 5'-6' HT.	
	SP6	1	Stewartia pseudocamellia / Japanese Stewartia	B & B	2.5' Cal
SHRUBS					
	CH	1	Clethra alnifolia 'Hummingbird' / Summersweet	CONT	5 gal
	CS3	8	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra	36"-42"; B&B	
	Fa2	32	Forsythia x 'Showoff Scarlet' / Arnold's Dwarf Forsythia	CONT	5 gal
	HMPE	15	Hydrangea macrophylla 'Pink Elf' / Pink Elf Hydrangea	5 gal	
	IG2	14	Ilex glabra / Inkberry Holly	3'-4"; B&B	
	IGS	6	Ilex glabra 'Shamrock' / Inkberry	CONT	5 gal
	KL1	8	Kalmia latifolia / Mountain Laurel	B&B; 3'-4' HT.	
	MP	8	Myrica pensylvanica / Northern Bayberry	3'-4"; B&B	
	RN3	10	Rhododendron catawbiense 'Nova Zembla' / Catawba Rhododendron	4' - 5'; B&B	
	RR	17	Rhododendron catawbiense 'Roseum Elegans' / Catawba Rhododendron	3' - 4"; B&B	

LANDSCAPE NOTES:

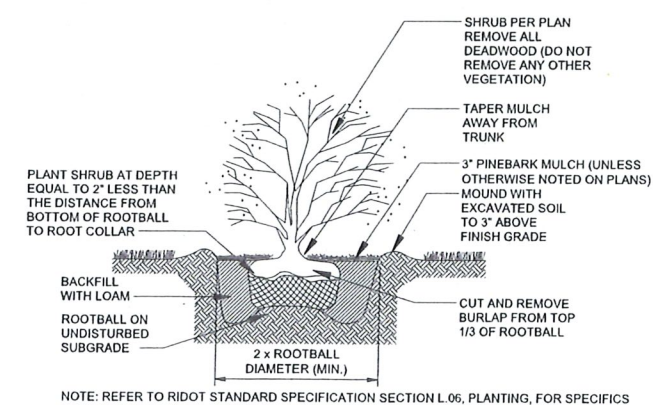
1. GUARANTEE THAT, UPON COMPLETION AND FINAL ACCEPTANCE, LANDSCAPE PLANTINGS CONFORM TO REQUIREMENTS OF CONTRACT DOCUMENTS. PROVIDE A WARRANTY FOR TREE PLANTINGS FOR A MINIMUM OF TWO (2) YEARS, INCLUDING TWO (2) CONTINUOUS GROWING SEASONS. COMMENCE WARRANTY ON DATE IDENTIFIED IN THE 'CERTIFICATE OF FINAL COMPLETION'.
2. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH NEW WARRANTY AND EXTENDED MAINTENANCE SERVICE COMMENCING ON THE DATE OF REPLACEMENT.
3. PLANT MATERIALS SHALL BE OF SIZE AND CALIPER REQUIRED AND CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
4. PLANTS OF OTHER KINDS THAN THOSE NAMED IN THE PLANT SCHEDULE SHALL NOT BE ACCEPTED WITHOUT APPROVAL. REPLACEMENT PLANTS LARGER IN SIZE THAN EXISTING MAY BE USED IF APPROVED BY THE A/E, PROVIDED USE OF LARGER PLANTS DOES NOT INCREASE CONTRACT PRICE.
5. A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT STRESS TO THE PLANT IS MINIMIZED. PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED.
6. UNLESS OTHERWISE APPROVED BY THE A/E, ALL PLANTS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES AND SHALL HAVE BEEN GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS.
7. SET PLANTS PLUMB AND AT SUCH A LEVEL THAT AFTER SETTLEMENT THEY BEAR THE SAME RELATION TO THE SURROUNDING GROUND AS THEY BORE TO THE GROUND FROM WHICH THEY WERE DUG. SETTLE BACKFILL MATERIAL FOR PLANTS, THOROUGHLY & PROPERLY, BY FIRING OR TAMPING. ACCOMPANY BACKFILLING WITH THOROUGH WATERING UNLESS OTHERWISE APPROVED. FORM SAUCER CAPABLE OF HOLDING WATER AROUND INDIVIDUAL PLANTS.
8. FERTILIZE SHRUB BEDS WITH 10-6-4 FERTILIZER AT THE RATE OF 3 POUNDS PER 100 SQUARE FEET OF SURFACE AREA, BROAD CAST. APPLY THE FERTILIZER UNIFORMLY TO THE SURFACE BEDS AND WORK INTO THE UPPER TWO (2) INCHES OF SOIL. FERTILIZE INDIVIDUAL TREES AT THE RATE OF ONE (1) AGRIFORM PELLET PER INCH OF TREE DIAMETER (FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS). APPLY A SECOND APPLICATION OF FERTILIZER TO ALL PLANT ITEMS AT THE SAME SPECIFIED RATES OVER THE MULCH AT THE END OF AN EIGHT WEEK PERIOD.

9. CONTAINER GROWN MATERIALS: REMOVE PLANT FROM CONTAINER AND "BUTTERFLY" ROOT BALL OR OTHERWISE SPREAD OUT ROOTS ON SETTING MOUND. BACKFILL SHALL BE SIFTED THROUGH THE AND SOLIDLY FIRMED.
10. AFTER PLANTING PRUNE ONLY BROKEN OR DEFORMED BRANCHES AND IN SUCH MANNER AS TO PRESERVE NATURAL CHARACTER OF PLANT.
11. IMMEDIATELY AFTER PLANTING, STAKE TREES OVER FIVE (5) FEET AS INDICATED ON DETAIL DRAWING INDICATED OR APPROVED BY THE OWNERS REPRESENTATIVE. MULCH SHALL BE APPLIED A MINIMUM OF THREE (3) INCHES IN DEPTH IN ALL PLANTING BEDS, AS INDICATED ON THE DRAWINGS.
12. THE PLANTS SHALL BE WATERED IMMEDIATELY FOLLOWING PLANTING, PREFERABLY WHEN TWO THIRDS OF THE BACKFILL HAS BEEN PLACED SO ALL AIR POCKETS ARE REMOVED AND THE PLANT PROPERLY SET. ADDITIONAL WATERING SHALL BE MADE AT LEAST ONCE EVERY THREE (3) WEEKS UNLESS OTHERWISE DIRECTED UNTIL FINAL ACCEPTANCE OF THE PLANT MATERIAL.
13. INSTALL 'JUTE MESH' EROSION CONTROL FABRIC WHERE FINAL GRADES ARE 3:1 (33%) OR GREATER PER MANUFACTURER'S INSTRUCTIONS.
14. UNLESS OTHERWISE SPECIFIED, CONTRACTOR TO LOAM AND SEED ALL DISTURBED AREAS. **SEEDING NOTE:** USE UNIVERSITY OF RHODE ISLAND NO. 2 IMPROVED SEED MIX OR EQUAL. **TREE PRUNING NOTE:** STREET TREES SHOULD BE PRUNED TO MAINTAIN A MINIMAL BRANCH HEIGHT OF 8' WITHIN TWO (2) YEARS OF INSTALLATION OF THE TREE.
15. **LANDSCAPE ESTABLISHMENT AND MAINTENANCE NOTE:** CONTRACTOR SHALL ENSURE THAT ALL LAWN AREAS AND PLANTINGS ARE FULLY ESTABLISHED AND ACCEPTABLE TO THE OWNER'S REPRESENTATIVE PRIOR TO RELINQUISHING THEIR RESPONSIBILITIES FOR MAINTENANCE OF THESE AREAS.
16. **TREE PROTECTION NOTE:** NO MATERIAL, TEMPORARY SOIL DEPOSIT OR EXCAVATION SHALL OCCUR WITHIN FOUR FEET OF SHRUBS OR WITHIN TWO FEET OF THE DRIP LINE OF ANY SHRUBS OR TREES TO REMAIN. ANY RETAINED EXISTING VEGETATION SHALL BE PROTECTED AS PER DETAIL ON PLAN.

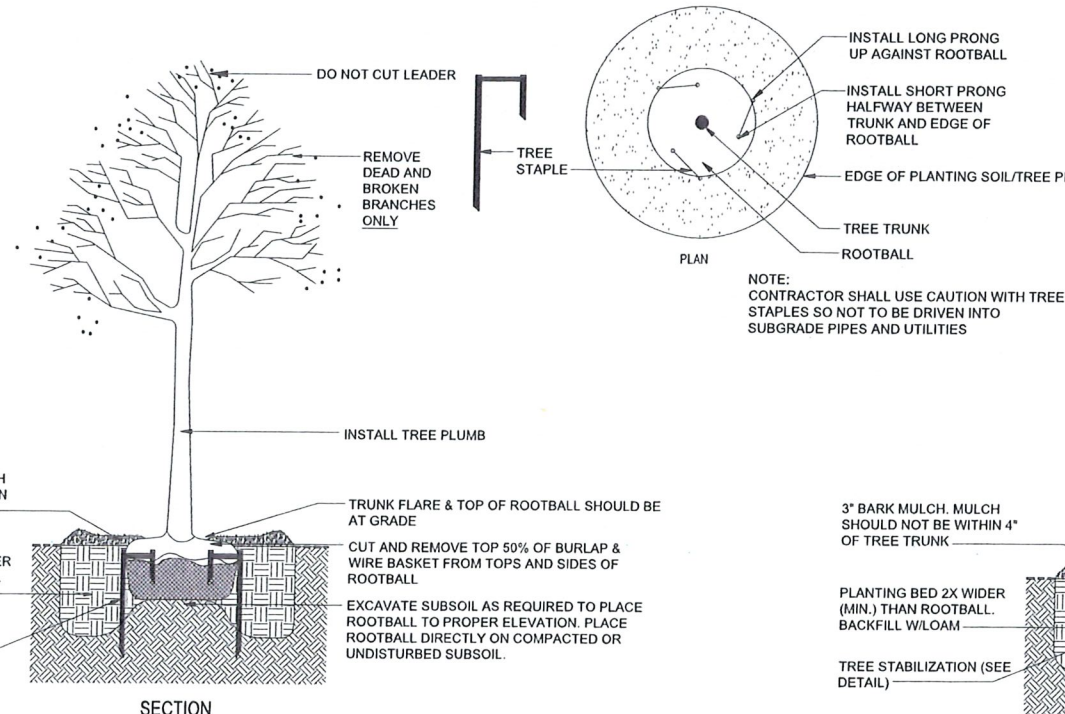
Approved

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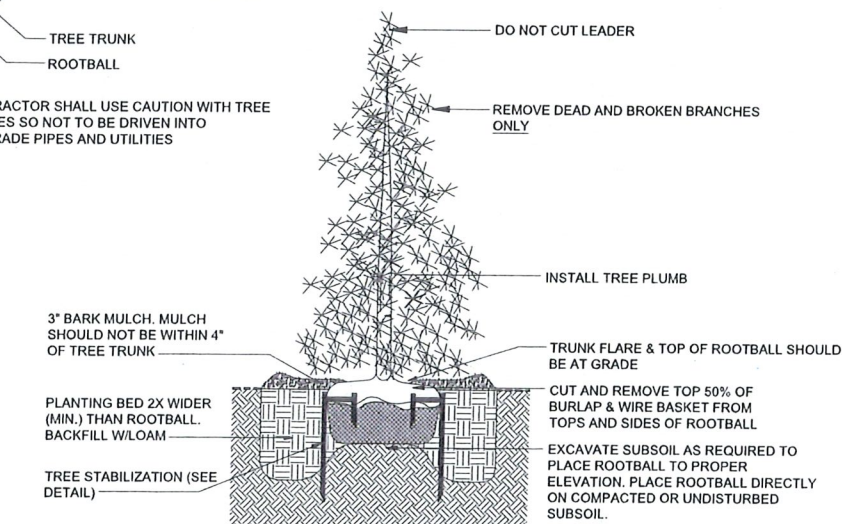
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SHRUB PLANTING DETAIL
no scale



TREE PLANTING DETAIL
no scale



EVERGREEN TREE PLANTING DETAIL
no scale



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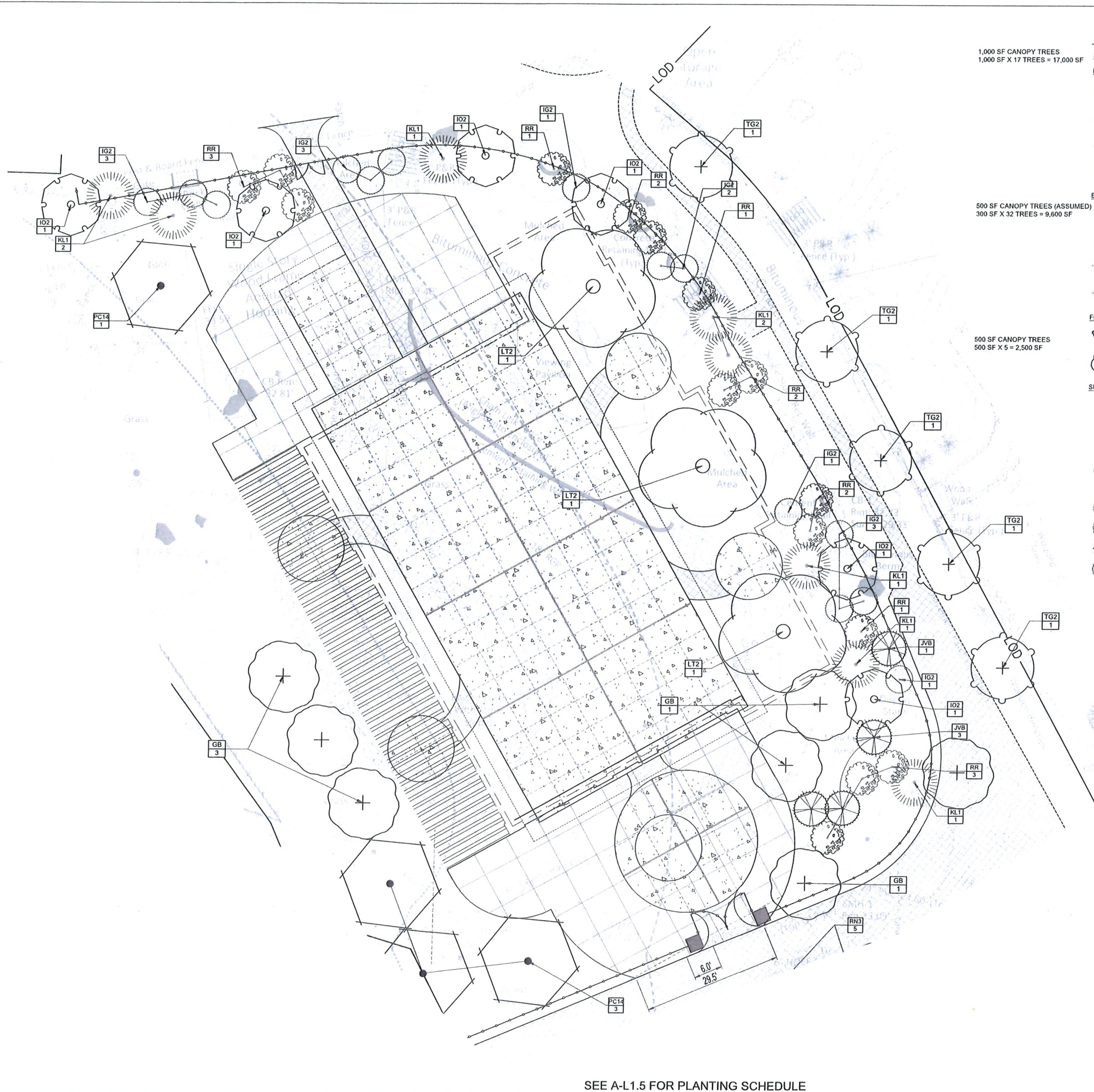
SHEET TITLE
PROJECT-WIDE

LANDSCAPE
DETAILS &
SCHEDULE

DRAWN BY: DCS	JOB NUMBER: 7213-00
CHECKED BY: DCS	DATE: 08/19/2024

A-L1.5

SHEET: X OF: X



PLANT SCHEDULE - PROJECT WIDE

SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER
1,000 SF CANOPY TREES 1,000 SF X 17 TREES = 17,000 SF					
DECIDUOUS TREES					
•	AS6	2	Acer saccharum 'Green Mountain'™ / Green Mountain Sugar Maple	2" Cal	B&B
+	GB	7	Ginkgo biloba 'Princeton Sentry'	2.5" Cal	B&B
o	LT2	3	Liriodendron tulipifera / Tulip Tree	2.5" Cal	B&B
+	TG2	5	Tilia cordata 'Greenspire' / Greenspire Littleleaf Linden	2.5" Cal	B&B
500 SF CANOPY TREES (ASSUMED) 300 SF X 32 TREES = 9,600 SF					
EVERGREEN TREES					
o	IO2	8	Ilex opaca / American Holly	4" HT.	B&B
•	JS2	12	Juniperus chinensis 'Spartan' / Spartan Juniper	4" HT.	B&B
•	JVB	4	Juniperus virginiana / Eastern Red Cedar	4" HT.	B&B
•	JV2	8	Juniperus virginiana / Eastern Red Cedar	4" HT.	B&B
500 SF CANOPY TREES 500 SF X 5 = 2,500 SF					
FLOWERING TREES					
•	PC14	4	Prunus virginiana / Chokecherry	5-6' HT.	B&B
+	SP6	1	Stewartia pseudocornellii / Japanese Stewartia	2.5" Cal	B&B
SHRUBS					
•	CH	1	Clethra alnifolia 'Hummingbird' / Summersweet	5 gal.	CONT.
•	CS3	8	Clethra alnifolia 'Ruby Spice' / Ruby Spice Clethra	3-4' HT.	B&B
•	FA2	32	Forsythia x 'Showoff Scarlet' / Arnold's Dwarf Forsythia	5 gal.	CONT.
•	HMPE	15	Hydrangea macrophylla 'Pink EX' / Pink EX Hydrangea	5 gal.	B&B
•	IG2	14	Ilex glabra / Inkberry Holly	3-4' HT.	B&B
•	IGS	6	Ilex glabra 'Sharrook' / Inkberry	5 gal.	CONT.
•	KL1	8	Kalmia latifolia / Mountain Laurel	3-4' HT.	B&B
•	MP	8	Myrica pensylvanica / Northern Bayberry	3-4' HT.	B&B
•	RN3	10	Rhododendron catawbiense 'Nova Zembla' / Catawba Rhododendron	4" HT.	B&B
•	RR	17	Rhododendron catawbiense 'Roseum Elegans' / Catawba Rhododendron	3-4' HT.	B&B
CALCULATIONS					
17,000 SF LARGE TREES					
9,600 SF SMALL TREES (ASSUMED)					
2,500 SF MEDIUM TREES					
29,100 SF PROPOSED COVERAGE					
+6,580 SF EXISTING TREES COVERAGE (APPROXIMATE)					
35,680 SF TOTAL TREE COVERAGE					



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SHEET TITLE
PAVILION
LANDSCAPE
PLAN

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B-L1.1

SHEET: X OF: X

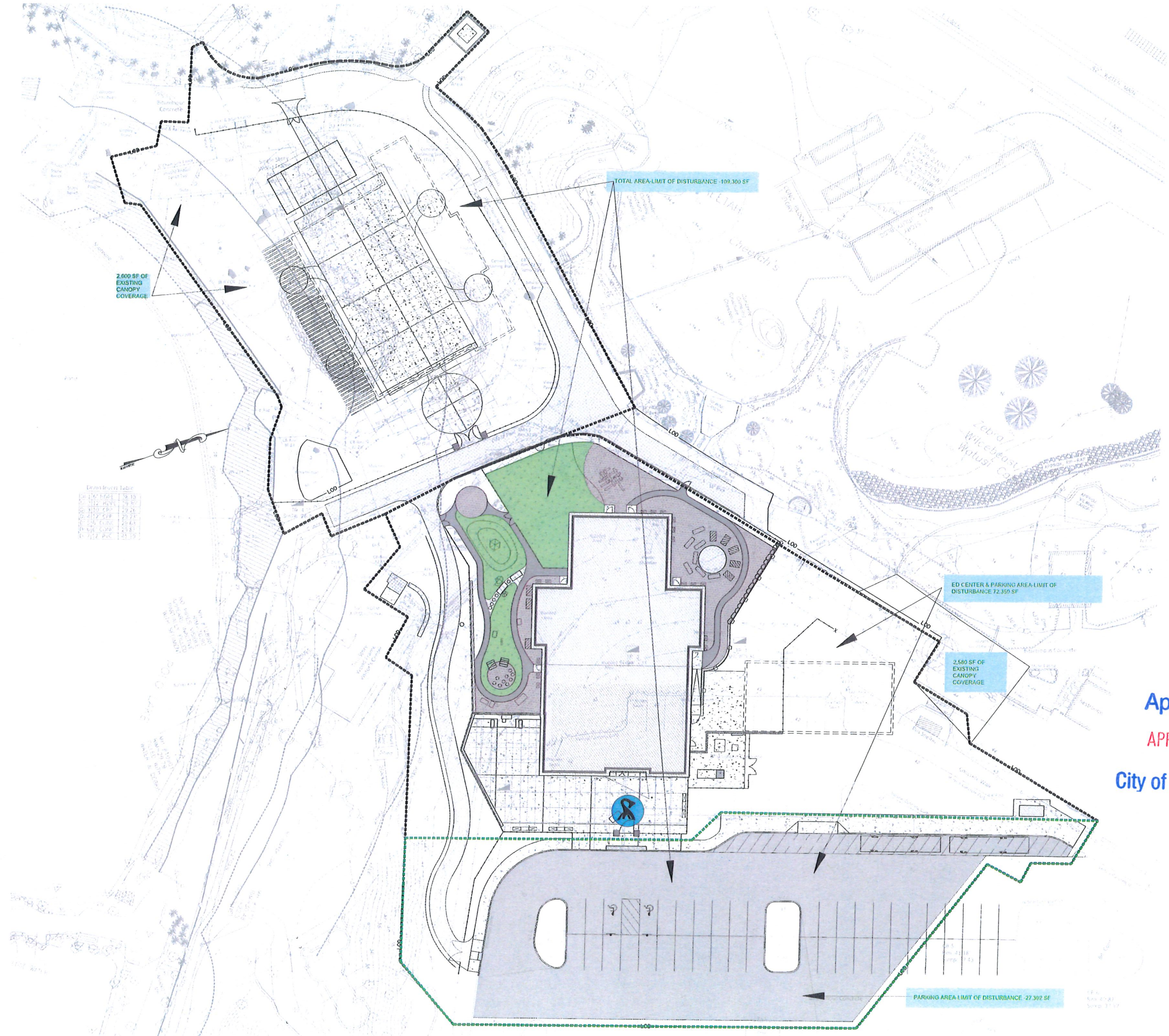
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APR 25 2025

City of Providence



SEE A-L1.5 FOR PLANTING SCHEDULE



Drawn Inset Table

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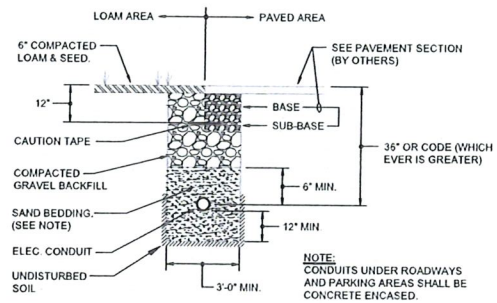
PARKING AREA-LIMIT OF DISTURBANCE - 27,392 SF

ED CENTER & PARKING AREA-LIMIT OF DISTURBANCE 72,350 SF

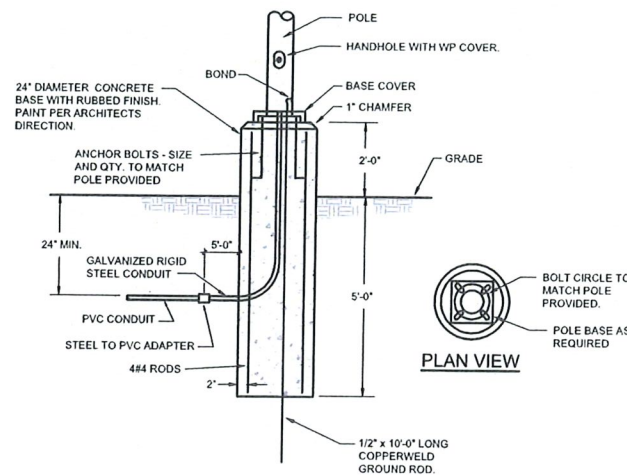
TOTAL AREA-LIMIT OF DISTURBANCE - 109,300 SF

2,000 SF OF EXISTING CANOPY COVERAGE

2,580 SF OF EXISTING CANOPY COVERAGE



SITE LIGHTING CONDUIT TRENCH DETAIL
NOT TO SCALE



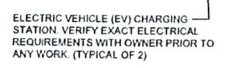
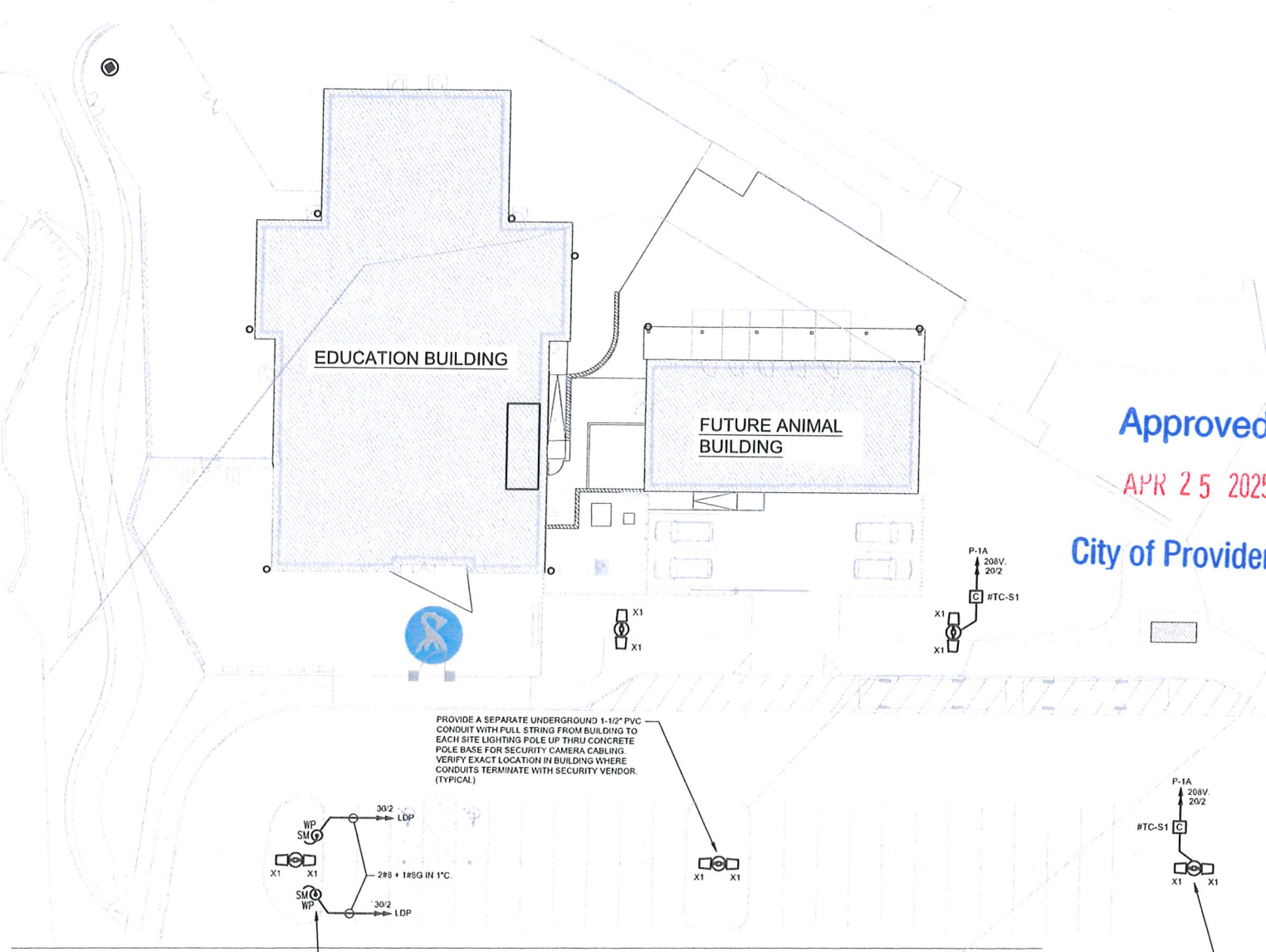
TYPICAL POLE BASE DETAIL (PARKING AREAS)
NOT TO SCALE

TYPICAL POLE BASE NOTES:

1. PROVIDE POLES AS SPECIFIED IN SCHEDULE ON DRAWINGS. PROVIDE POLE WITH HANDHOLE AND REMOVABLE WEATHERPROOF COVER.
2. PROVIDE ANCHOR BOLTS AS RECOMMENDED BY POLE MANUFACTURER. PROVIDE TEMPLATE, FLAT WASHERS, LOCK WASHERS, AND HEX NUTS FOR EACH POLE.
3. PROVIDE FOUNDATIONS FOR POLES, BOLLARDS, AND GROUND-MOUNTED FLOOD AND ACCENT LIGHTING. CONSTRUCTED FROM REINFORCED CONCRETE IN SIZES AS SHOWN ON DRAWINGS AND TO MEET THE MINIMUM STRUCTURAL REQUIREMENTS OF IBC 1807.3 EMBEDDED POSTS AND POLES. PLACE THE ANCHOR BOLTS IN POLE BASES SO THAT THE LUMINAIRE WILL BE ORIENTED PERPENDICULAR TO THE CURB/STREET/SIDEWALK/PARKING LOT OR AS INDICATED ON THE PLANS. ALSO, REFER TO MANUFACTURERS PHOTOMETRICS PLAN FOR CORRECT ORIENTATION OF LUMINAIRE PRIOR TO ANY WORK.
4. PROVIDE A CONCRETE-ENCASED ELECTRODE (UFER) GROUNDING SYSTEM FOR GROUNDING THE FOUNDATION, LUMINAIRE, AND POLE:
 - a. PROVIDE TWENTY-FIVE (25) FEET OF #6 BARE STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR.
 - b. EXTEND THREE (3) FEET OF THE GROUNDING ELECTRODE CONDUCTOR OUT THE TOP OF THE FOUNDATION FOR CONNECTION TO THE LUMINAIRE/POLE.
 - c. CLAMP THE GROUNDING ELECTRODE CONDUCTOR TO THE TOP OF THE REBAR CAGE. USE A CLAMP RATED FOR SUCH USE SUCH AS AN ERICO EK16 OR SIMILAR.
 - d. SPIRAL A MINIMUM OF TEN (10) FEET OF THE GROUNDING ELECTRODE CONDUCTOR AROUND THE OUTSIDE OF THE REBAR CAGE AT THE BOTTOM OF THE FOUNDATION IN DIRECT CONTACT WITH EARTH.
5. THE EXPOSED SURFACE AREA OF THE FOUNDATION SHALL HAVE THE FORMS REMOVED AND THE CONCRETE RUBBED OUT TO A SMOOTH FINISH. PAINT ALL EXPOSED SURFACE AREA PER THE ARCHITECTS AND OWNER'S DIRECTION.
6. INSTALL IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.
7. UNDERGROUND AND EXTERIOR WIRE SHALL BE TYPE XHHW-2.
8. INSTALL ALL ANCHOR BOLTS AND HANDHOLE FASTENERS WITH ANTI-SIZE COMPOUND.
9. BOND EACH LUMINAIRE, EACH METAL ACCESSORY, THE GROUND ROD AND THE POLE TO THE BRANCH CIRCUIT EQUIPMENT GROUND CONDUCTOR WITH A SEPARATE GROUND WIRE SIZED PER NEC OR AS SHOWN ON THE DRAWINGS.

SITE LIGHTING FIXTURE NOTES:

1. TYPE 'X1' SITE LIGHTING POLE MOUNTED DUAL HEAD FIXTURES (180°) SHALL BE GARDCO MODEL NUMBER GL15-MR09-1-3-310LA-951A-NW-208-1310-VIATTS EACH FIXTURE (COLOR TO BE SELECTED BY ARCHITECT) OR EQUAL PROVIDE MANUFACTURER'S STEEL ROUND POLE. VERIFY EPA RATING WITH CIVIL ENGINEER AND MANUFACTURER. PROVIDE CONCRETE POLE BASE PER DETAIL OR AS REQUIRED BY CIVIL ENGINEER.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FOR ALL SITE POLE MOUNTED LED LIGHTING FIXTURES A THERMALLY PROTECTED SURGE PROTECTIVE DEVICE AND CONNECTED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE THERMALLY PROTECTED SURGE PROTECTIVE DEVICE SHALL BE EQUAL TO LITTLEFUSE #LSP10. (TYPICAL)



1 SITE PLAN - ELECTRICAL
1\"/>



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Consultant



Education Center,
Animal Building, &
Pavilion



100 ELMWOOD AVENUE
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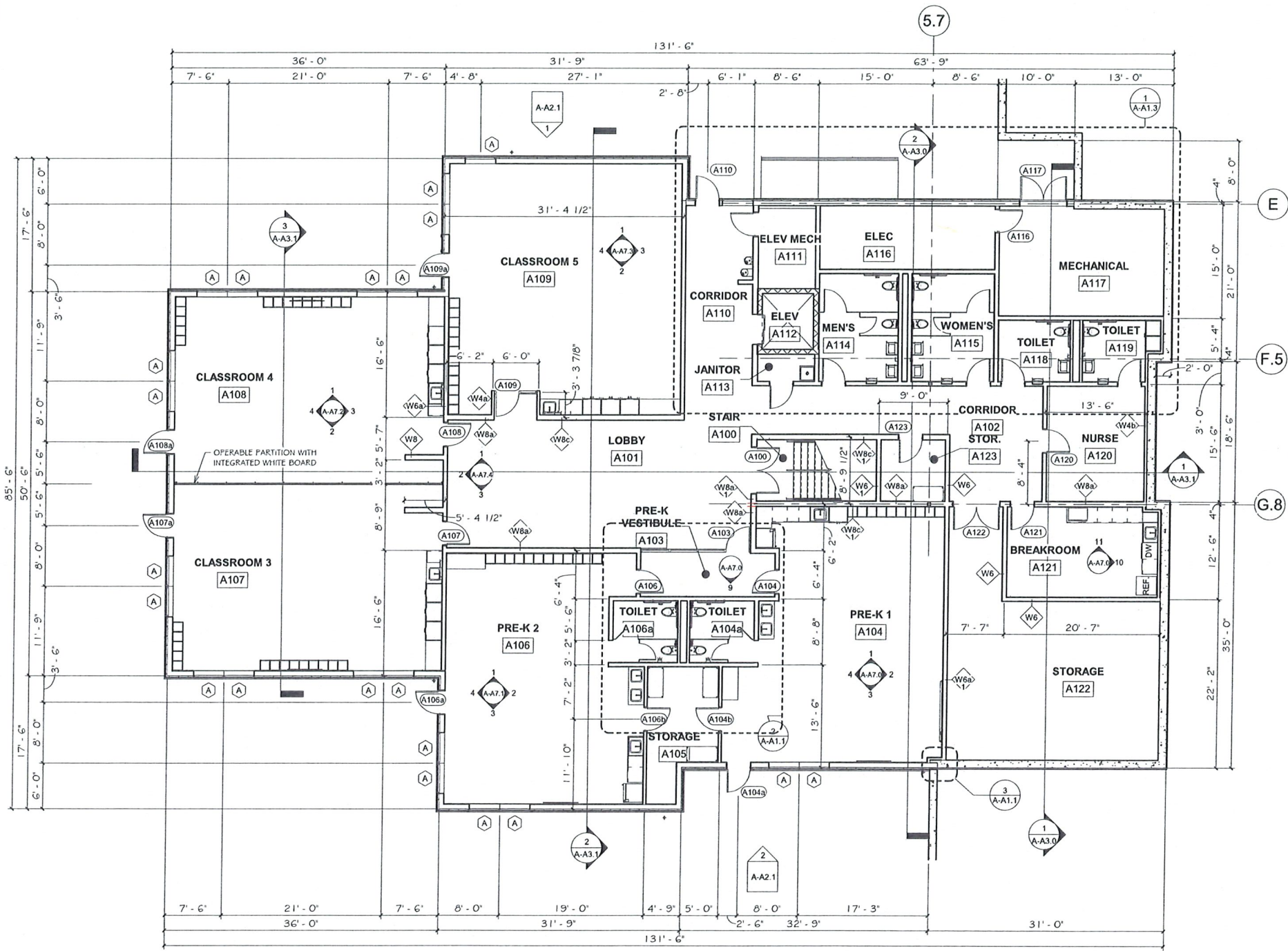
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08/19/2024

SHEET TITLE
ELECTRICAL SITE PLAN - LIGHTING

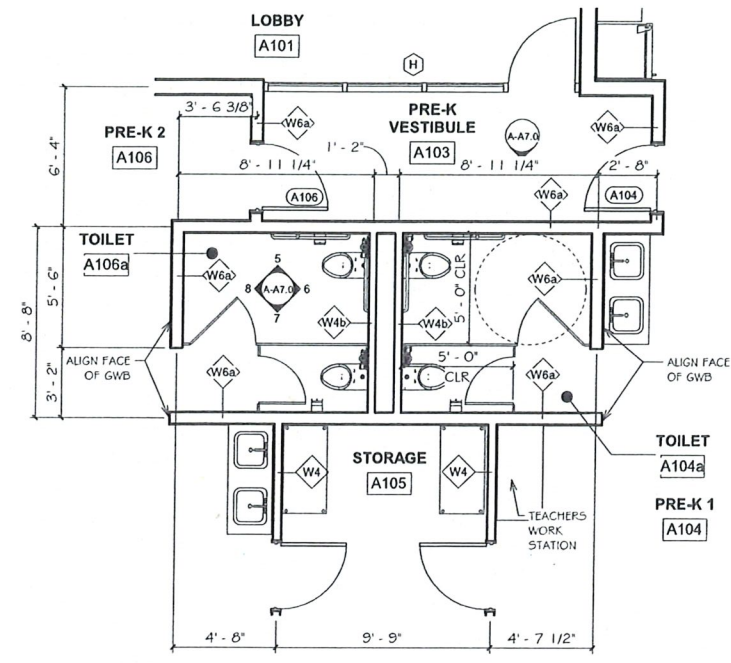
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CHECKED BY: RWD DATE: 08/19/2024

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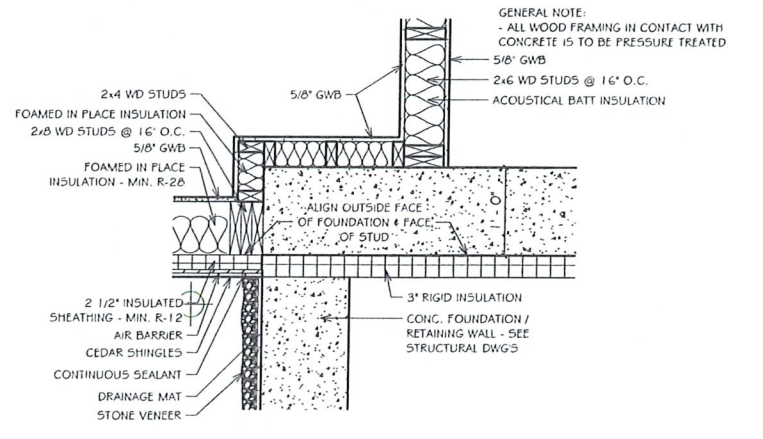
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1 LOWER FLOOR PLAN
1/8" = 1'-0"



2 ENLARGED LOWER LEVEL PLAN
1/4" = 1'-0"

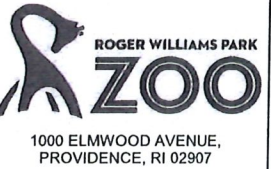


3 PLAN DETAIL
1" = 1'-0"



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ROGER WILLIAMS PARK ZOO EDUCATION CENTER



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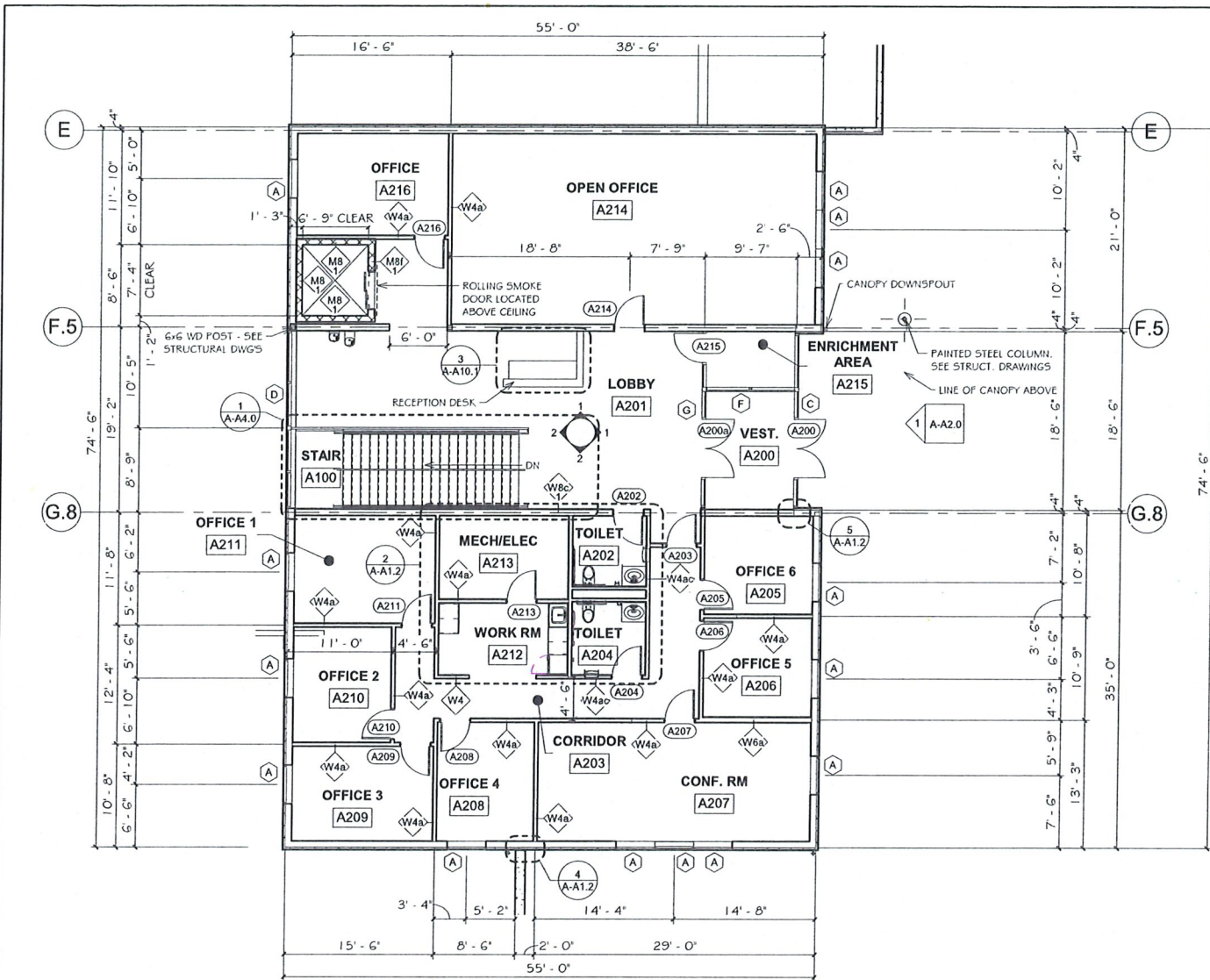
SHEET TITLE
LOWER LEVEL FLOOR PLAN

DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 08-19-2024

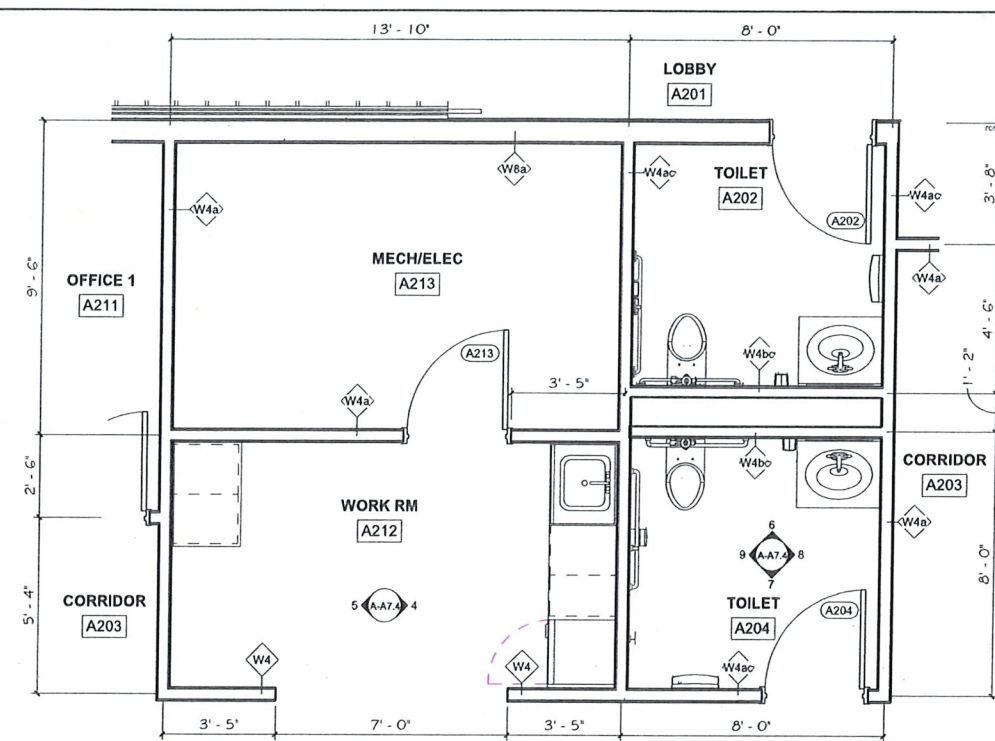
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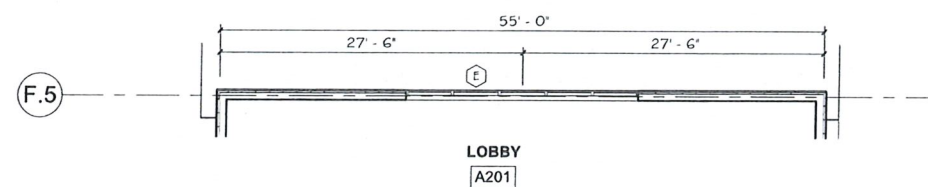
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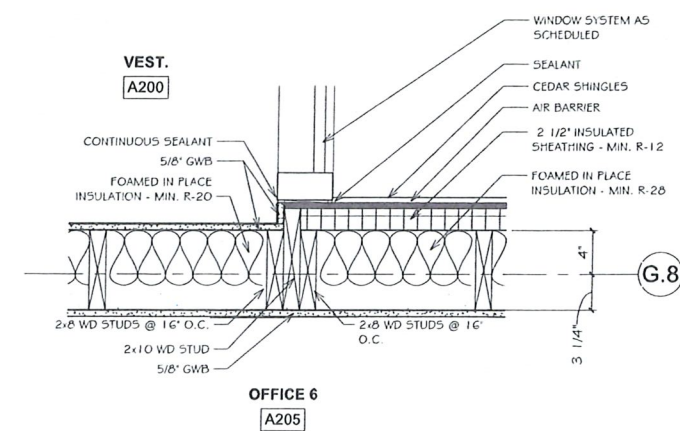
1 UPPER LEVEL FLOOR PLAN
1/8" = 1'-0"



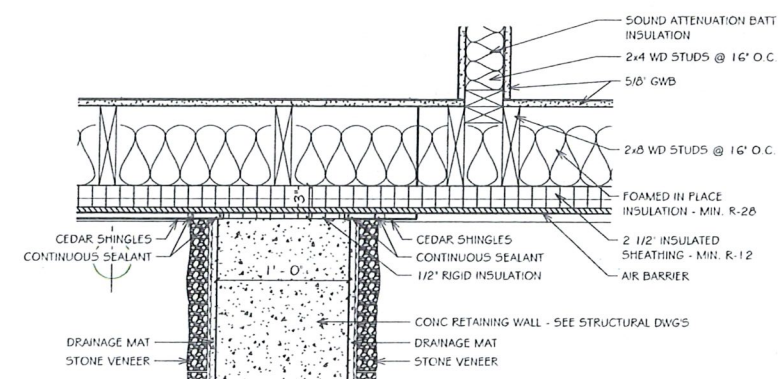
2 PLAN - TOILET A203
3/8" = 1'-0"



3 FLOOR PLAN - CLERESTORY WINDOWS
1/8" = 1'-0"



5 PLAN DETAIL
1 1/2" = 1'-0"



4 PLAN DETAIL
1 1/2" = 1'-0"

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PARK ZOO
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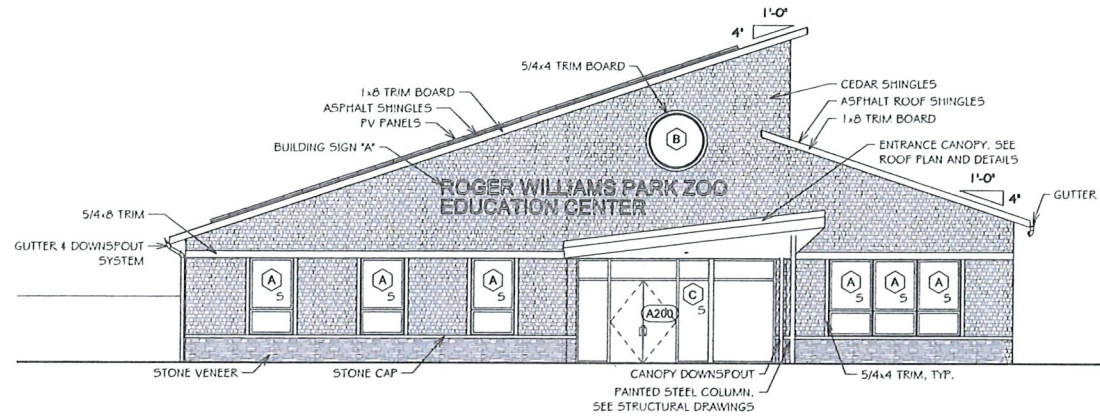
SHEET TITLE
**UPPER LEVEL
FLOOR PLAN**

DRAWN BY: FK, KR	JOB NUMBER: 10050
CHECKED BY: MS	DATE: 08-19-2024

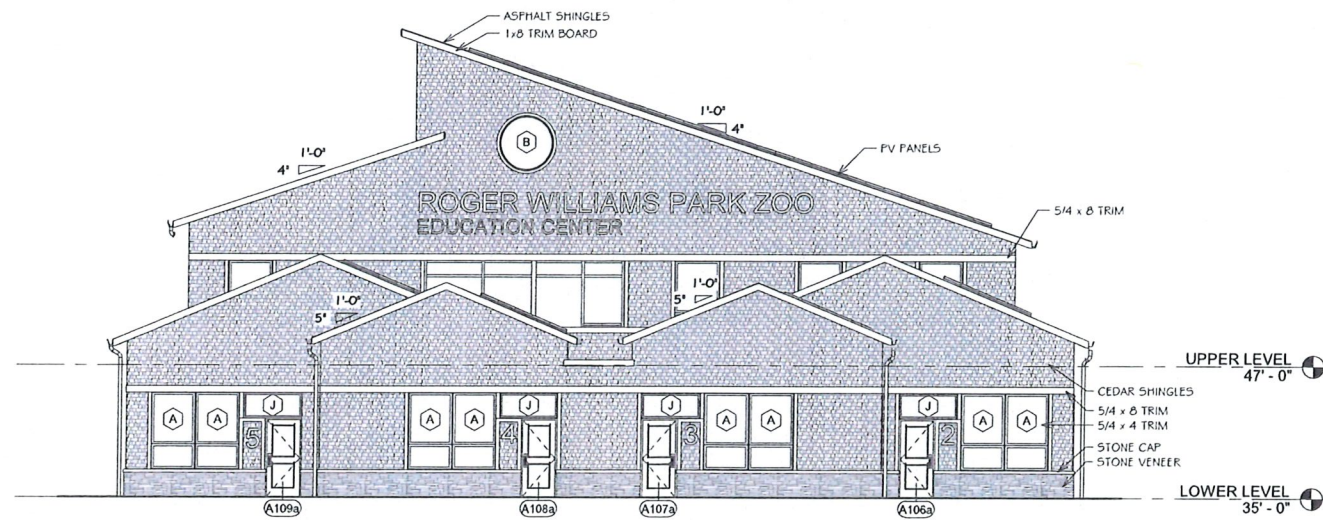
A-A1.2

SHEET: OF:

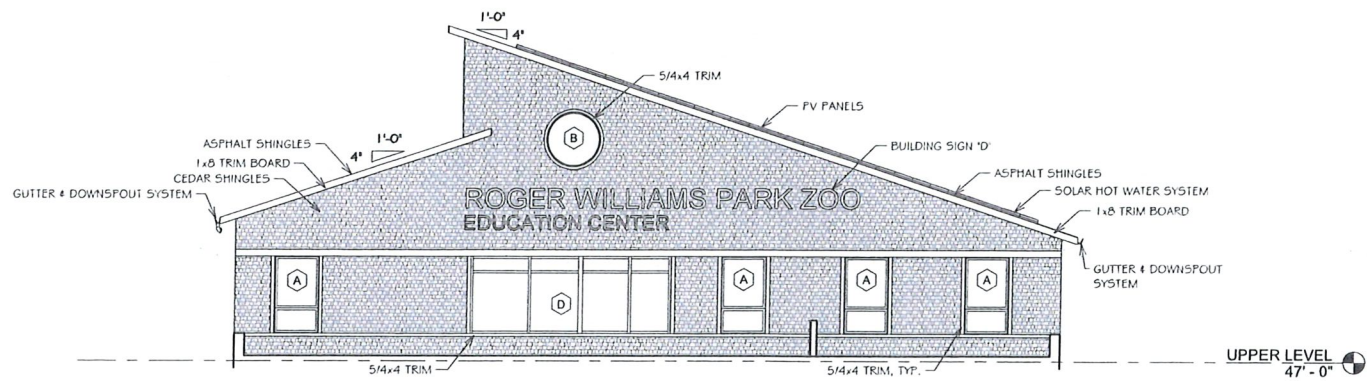
LEGEND:
S = SECURITY FILM - SEE WINDOW SCHEDULE AND SPECIFICATIONS



1 EAST ELEVATION
A-A2.0 1/8" = 1'-0"



2 WEST ELEVATION
A-A2.0 1/8" = 1'-0"



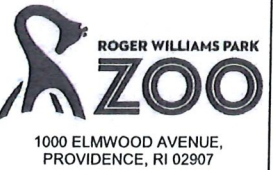
3 PARTIAL WEST ELEVATION
A-A2.0 1/8" = 1'-0"



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Consultant

ROGER WILLIAMS
PARK ZOO
EDUCATION
CENTER



Revision Schedule	
Revision Number	Revision Date

ISSUED FOR BID
AUGUST 19, 2024

SHEET TITLE
EXTERIOR
ELEVATIONS

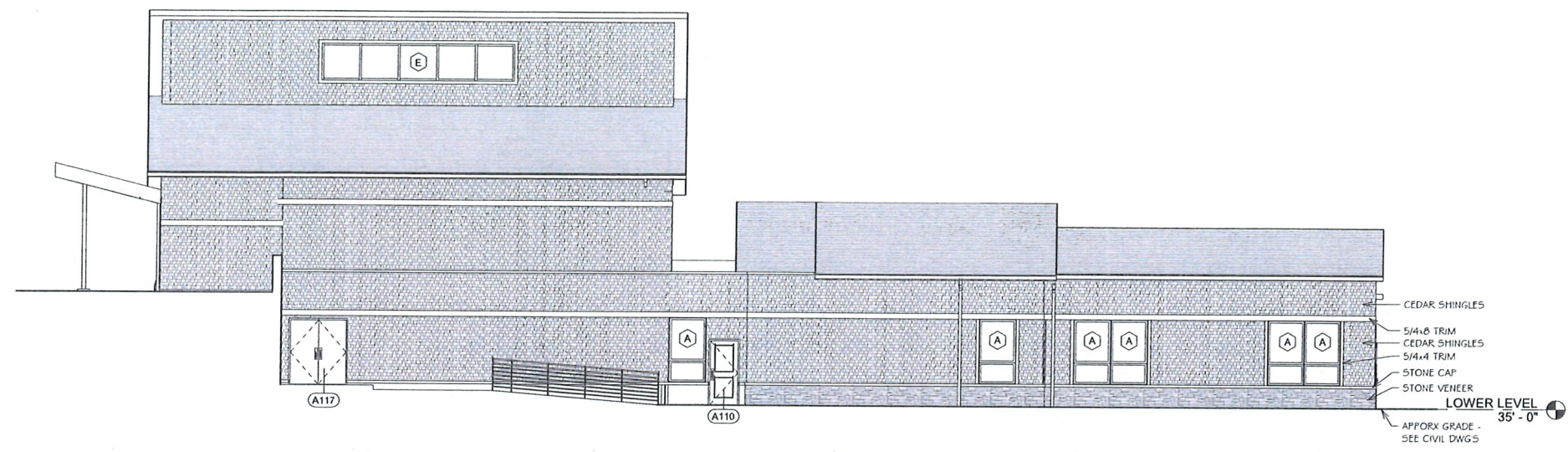
Approved
APR 25 2025
City of Providence

DRAWN BY: FK, KR JOB NUMBER: 18050
CHECKED BY: MS DATE: 08-19-2024

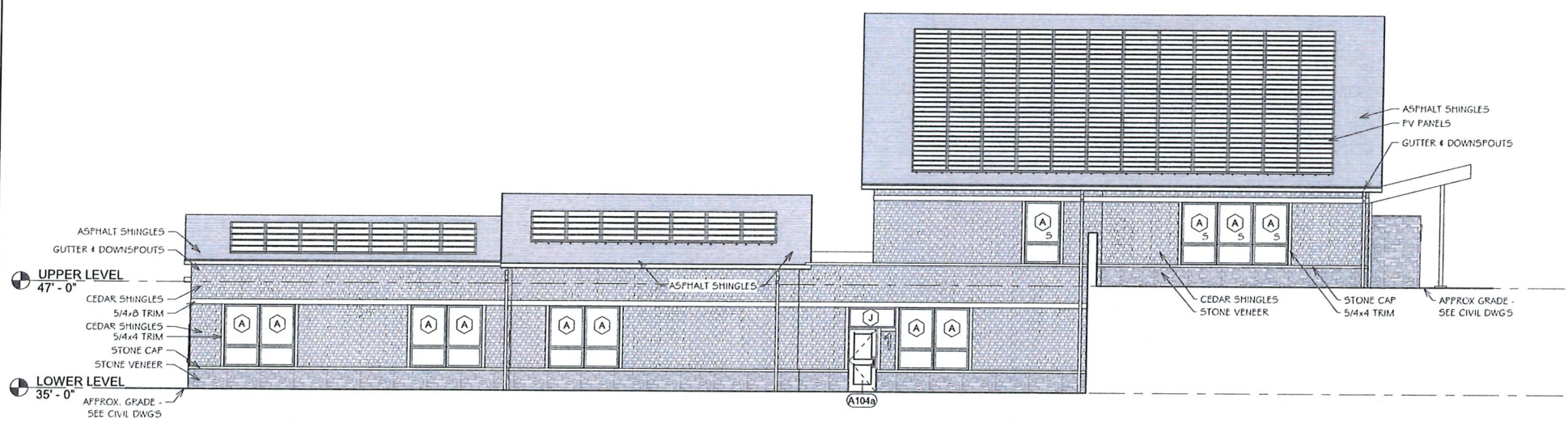
A-A2.0

SHEET: OF:

LEGEND:
 S = SECURITY FILM - SEE WINDOW SCHEDULE AND SPECIFICATIONS



1 NEW - NORTH ELEVATION
 A-A2.1 1/8" = 1'-0"



2 SOUTH ELEVATION
 A-A2.1 1/8" = 1'-0"

Approved
 APR 25 2025
 City of Providence



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 PROVIDENCE, RI 02907

Revision Schedule	
Revision Number	Revision Date

ISSUED FOR BID
 AUGUST 19, 2024

SHEET TITLE
 EXTERIOR
 ELEVATIONS

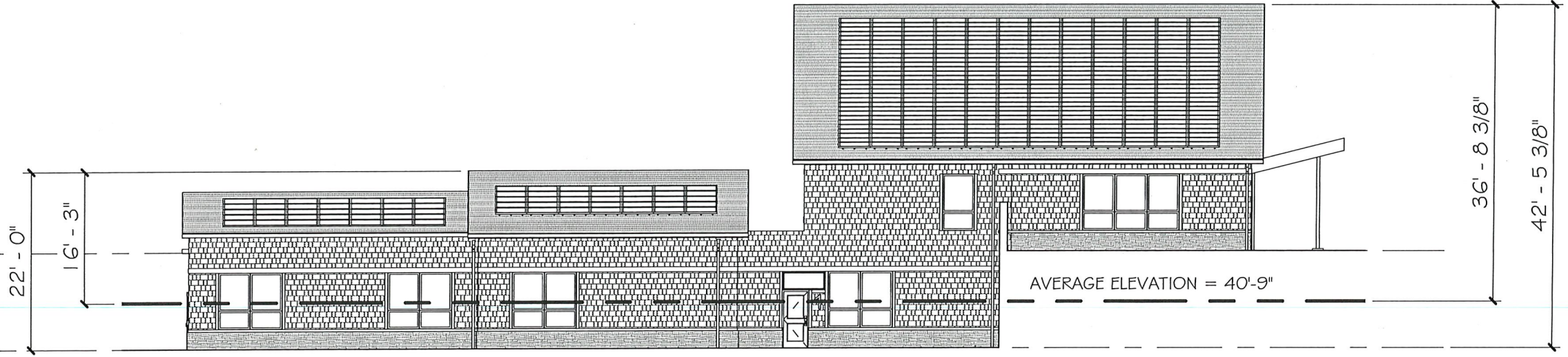
DRAWN BY: FKJR JOB NUMBER: 16050
 CHECKED BY: MS DATE: 08-19-2024

A-A2.1

SHEET: OF:

UPPER LEVEL
47' - 0"

LOWER LEVEL
35' - 0"



AVERAGE ELEVATION = 40'-9"

1
A-1

BUILDING HEIGHT

1/16" = 1'-0"

BUILDING HEIGHT CALCULATION

- SOUTHWEST CORNER = 46.9 FT
- NORTHWEST CORNER = 46.9 FT
- SOUTHEAST CORNER = 34.75 FT
- NORTHEAST CORNER = 34.75 FT

AVERAGE HEIGHT = 40.82 FT = +/- 40' - 9"

Approved
APR 25 2025
City of Providence

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SA Job No. 18050

SHEET TITLE
BUILDING HEIGHT

DRAWN: KR

DATE:
4/25/2025

REFERENCE DRAWING
A-1

DRAWING NO.
A-1