REFERENCE

 EXISTING CONDITION AND PROPERTY INFORMATION FROM THE PLAN TITLED, "EXISTING CONDITIONS PLAN", PREPARED BY CANAVAN & ASSOCIATES, DATED DECEMBER 8, 2021 AND SITE SURVEY PREPARED BY INSITE IN DECEMBER 2023.

GENERAL NOTES

- THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2022 EDITION, OR LATEST REVISION, AND THE RHODE ISLAND STANDARD DETAILS ARE MADE A PART HEREOF AS FULLY AND COMPLETELY AS IF ATTACHED HERETO. THE 2022 EDITION OF THE STANDARD SPECIFICATIONS MAY BE OBTAINED AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES AND POST ALL BONDS ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE OWNER AND THE ENGINEER. THE CONTRACTOR IS REQUIRED TO FILE ANY DOCUMENTS REQUIRED BY RIPDES PERMIT OR RIDOT PHYSICAL ALTERATION PERMIT
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AND/OR BARRIERS AROUND ALL OPEN EXCAVATED AREAS, AND CONDUCT ALL WORK IN ACCORDANCE WITH OSHA STANDARDS AND CITY OF CENTRAL
- 4. IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED, THE CONTRACTOR SHALL IMMEDIATELY CONTACT AND COORDINATE WITH THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- 5. ANY AREA OUTSIDE OF THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE
- ALL EXISTING CONDITIONS SHOWN SHALL BE CONSIDERED APPROXIMATE AND ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED. NO FIELD ADJUSTMENTS IN THE LOCATION OF SITE ELEMENTS SHALL BE MADE WITHOUT THE ARCHITECT, ENGINEER, OR OWNER'S REPRESENTATIVE APPROVAL.
- ALL UTILITIES (LOCATION AND ELEVATION) SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR MUST CONTACT THE APPROPRIATE PRIVATE UTILITY COMPANIES AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK BEING COMPLETED. THE CONTRACTOR IS HEREBY NOTIFIED THAT SOME PUBLIC AND PRIVATE UTILITY COMPANIES ARE NOT PART OF "DIGSAFE" AND MAY HAVE ADDITIONAL NOTIFICATION REQUIREMENTS.
- ANY WORK AND MATERIAL TO BE PLACED WITHIN THE CITY RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF CENTRAL FALLS REQUIREMENTS, AND RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2022 EDITION, OR LATEST
- 9. PAVEMENT MARKINGS ARE TO BE EPOXY RESIN AND CONFORM TO THE SPECIFICATIONS.
- 10. PRIOR TO THE PLACEMENT OF THE FINAL COAT OF PAVEMENT, ALL EXISTING PAVEMENT IS TO BE SWEPT CLEAN AND ASPHALT EMULSION TACK COAT IS TO BE APPLIED.
- 11. ALL CURB RAMPS SHALL HAVE DETECTABLE WARNING PANELS IN ACCORDANCE WITH RIDOT STATE STANDARD DETAILS AND SPECIFICATIONS. DETECTABLE WARNING PANELS SHALL BE CAST IRON, SEE SPECIFICATION SECTION 32 13 12.
- 12. SIDEWALK AND WALKWAY FINISH DETAILS ARE PROVIDED ON THE LANDSCAPE PLANS.
- 13. CONTRACTOR TO INSTALL A VISUAL BARRIER SCREENING COVERING THE CHAIN LINK FENCE WITH A MINIMUM 85% OPACITY. CONTRACTOR TO INSTALL THE SCREENING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 14. IN ADDITION TO TYPICAL DESIGN STANDARDS, THE CONSTRUCTION GATE/FENCE SUPPORT SYSTEM (POSTS, UPRIGHTS, RODS, RAILS, TIES, FOUNDATIONS) SHALL BE DESIGNED FOR A LATERAL WIND PRESSURE WITH THE FENCE ASSUMED TO BE SOLID I.E., WITHOUT PENETRATIONS. CONTRACTOR SHALL SUBMIT CALCULATIONS STAMPED BY A RI REGISTERED PROFESSIONAL ENGINEER DEMONSTRATING THE DESIGN TO BE IN COMPLIANCE WITH ALL LOADS NOTED AND THE STATE BUILDING CODE.
- 15. WORK DEPICTED ON THE CIVIL AND LANDSCAPE PLANS (C-SERIES AND L-SERIES) SHALL BE FURNISHED AND INSTALLED BY THE SITE CONTRACTOR UNLESS OTHERWISE NOTED.
- 16. ANY DAMAGE IN THE CITY RIGHT-OF-WAY, AS A DIRECT OR INDIRECT RESULT OF THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BYPASS PUMPING, PRIMARY AND BACKUP, TO ACCOMMODATE PEAK FLOW CONDITIONS OF ALL ACTIVE STORM AND COMBINED SEWERS WHEN TEMPORARILY DISRUPTED DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE NECESSARY PUMPING AND STORAGE CAPACITIES

DEMOLITION NOTES

- ALL DEMOLITION SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF WORK.
- PAVEMENT DEMOLITION SHALL BE SAW CUT AND DISPOSED OF PROPERLY. WHERE NEW PAVEMENT ABUTS EXISTING, CONTRACTOR SHALL PROVIDE CLEAN SAW CUT WITH A 2 FOOT OVERLAP OF NEW TOP COURSE OVER ADJACENT EXISTING BASE COURSE.
- 3. ALL UTILITIES REMOVED FROM THE SITE SHALL BE REMOVED ALL THE WAY TO THE MAIN LINE, UNLESS OTHERWISE NOTED ON THE PLANS, WITH ANY ASSOCIATED TEES AND FITTINGS REMOVED AND REPLACED WITH A NEW SECTION OF PIPE.
- 4. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION OF STRUCTURES, PAVEMENT AND CONCRETE MATERIALS, AND UTILITIES WITH APPROPRIATE PROPOSED SITE, GENERAL, AND UTILITY DRAWINGS.
- 5. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE SOILS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR PROPOSED CENTRAL FALLS HIGH SCHOOL.
- 6. REUSE OF ONSITE SOILS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND APPROVED REMEDIAL ACTION WORK PLAN.
- ALL DRAINAGE AND SEWER UTILITIES ARE TO BE PROTECTED UNTIL REPLACED.
- 8. CUT AND CAP EXISTING WATER AND SEWER SERVICES AT THE MAIN PRIOR TO ANY BUILDING DEMOLITION.

SURVEY NOTES

- THE ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON NAVD 88 DATUM.
- 2. THE COORDINATES SHOWN ON THIS SURVEY ARE BASED ON THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM AS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
- CANAVAN AND ASSOCIATES MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. CANAVAN AND ASSOCIATES FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE LOCATED IN THE EXACT LOCATION INDICATED AND ARE ARE SHOWN AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.
- 4. UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE TAKEN FROM AVAILABLE RECORD AND FIELD INFORMATION AND ARE APPROXIMATE ONLY. CONTACT DIG-SAFE BEFORE PLANNING ANY CONSTRUCTION.
- INVERTS, PIPE SIZES, AND PIPE CLASSIFICATIONS FOR SANITARY SEWER AND STORM DRAIN SYSTEMS, AS SHOWN HEREON, WERE DETERMINED BY INSPECTION AND MEASUREMENTS PERFORMED AT GROUND SURFACE LEVEL (STRUCTURES WERE NOT PHYSICALLY ENTERED). THE RESULTS OF THE INSPECTIONS AND MEASUREMENTS MAY VARY FROM ACTUAL CONDITIONS AND COULD BE DETERMINED BY EXCAVATION OR USE OF CONFINED SPACE ENTRY PERSONNEL AND/OR EQUIPMENT.

AS-BUILTS

1. UPON COMPLETION OF THE WORK, AS-BUILT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR IN BOTH PAPER AND ELECTRONIC FORMAT (BOTH PDF AND AUTOCAD 2023). THE DRAWINGS SHALL BE BASED UPON A FIELD SURVEY OF ACTUAL AS-BUILT LOCATIONS, AND SHALL BE STAMPED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND. THE AS-BUILT DRAWING SHALL DEPICT ALL BUILDINGS, PAVED SURFACES, TOPOGRAPHY, AND MAJOR LANDSCAPE FEATURES. WATER, SEWER, AND DRAINAGE FEATURES, AS WELL AS OTHER UNDERGROUND UTILITIES INSTALLED BY OTHERS, SHALL BE LOCATED ON THE PLAN, INCLUDING SIZE, MATERIAL, AND ELEVATION. ALL STORMWATER MANAGEMENT CONTROLS. BOTH STRUCTURAL AND NON-STRUCTURAL. DESIGNED TO MANAGE THE STORMWATER ASSOCIATED WITH THE COMPLETED SITE SHALL ALSO BE INCLUDED.

EROSION AND SEDIMENTATION CONTROL NOTES

- SOIL EROSION AND SEDIMENTATION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITY AND THE NOTES AND DETAILS SHOWN IN THIS PLAN SET.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FILING THE STORMWATER POLLUTION PREVENTION PLAN AND ANY NECESSARY DOCUMENTS REQUIRED BY THE RIPDES GENERAL PERMIT.
- 3. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER OR ENGINEER
- 4. THE CONTRACTOR SHALL SCHEDULE HIS/HER WORK TO ALLOW THE FINISHED SUB GRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE, TO STABILIZED DISCHARGE POINTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY UTILITY CONNECTIONS.
- THE CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, ADDITIONAL SILTATION FENCING AND FILTER FABRIC FOR INSTALLATION AS DIRECTED BY THE CITY TO MITIGATE ANY EMERGENCY CONDITIONS.
- ANY DEWATERING WASTE WATERS PUMPED FROM EXCAVATIONS SHALL BE CONVEYED BY HOSE TO AN UPLAND AREA AND DISCHARGED INTO HAYBALE ENCLOSURES OR SEDIMENTATION BAGS OUTSIDE ALL WETLAND AND WETLAND BUFFER AREAS.
- CONSTRUCTION SITE WASTE MATERIALS SHALL BE PROPERLY CONTAINED ONSITE AND DISPOSED OFF SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE REGULATIONS.
- 8. ALL DISTURBED OR EXPOSED SOIL SURFACES SHALL BE TEMPORARILY STABILIZED AFTER EACH WORK DAY WITH HAY, STRAW, MULCH OR ANY OTHER PROTECTIVE COVERING AND/OR METHOD APPROVED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE.
- 9. UPON COMPLETION OF ALL SITE WORK, THE CONTRACTOR SHALL INSPECT ALL ON-SITE AND OFF-SITE CATCH BASINS (THAT RECEIVED CATCH BASIN PROTECTION) AND DRAINAGE MANHOLES AND REMOVE ALL SEDIMENT AND DEBRIS THAT HAS ACCUMULATED DURING THE COURSE OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- 10. THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. STORMWATER SHALL BE MAINTAINED AWAY FROM WORK SITES WHILE PREVENTING AREAS OF EROSION. IT IS ANTICIPATED THAT THIS MAY INCLUDE THE USE OF PUMPS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SURFACE DRAINAGE DURING CONSTRUCTION, INCLUDING ALL COSTS ASSOCIATED WITH PUMPING.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING NECESSARY TEMPORARY EROSION CONTROL MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING OR INSTALLING ALL TEMPORARY SEDIMENT AND EROSION CONTROLS AS SHOWN ON THESE PLANS AND SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS NECESSARY DURING THE ENTIRE CONSTRUCTION PERIOD.
- 13. TEMPORARY DIVERSION SWALES SHALL BE PROVIDED AS NECESSARY TO DIRECT RUNOFF TO THE SEDIMENT BASINS DURING CONSTRUCTION.
- 14. ANTI-TRACKING PADS AND WHEEL WASH STATIONS SHALL BE PROVIDED AT ALL POINTS OF EGRESS OR INGRESS AND SHALL BE MAINTAINED TO LIMIT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS AND INTO THE REST OF THE SITE.
- 15. ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES. CONTRACTOR SHALL NOTIFY IN WRITING CITY OF CENTRAL FALLS PUBLIC WORKS PRIOR TO THE START OF ANY WORK.
- 16. SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED ON A WEEKLY BASIS AND AFTER EACH STORM EVENT OF 0.25 INCH OR GREATER DURING CONSTRUCTION TO ENSURE CHANNELS, DITCHES AND PIPES ARE CLEAR OF DEBRIS AND THAT THE EROSION CONTROL BARRIERS ARE INTACT. IDENTIFIED DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY. THE CONTRACTOR SHALL MAINTAIN INSPECTION REPORTS AND SUBMIT TO RESPECTIVE AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH PERMIT
- 17. THE CONTRACTOR SHALL CLEAN AND MAINTAIN EROSION CONTROL BARRIER WHEN SEDIMENT ACCUMULATES TO ONE HALF THE HEIGHT OF THE HAYBALES OR ONE THIRD THE HEIGHT OF SILT FENCE. MATERIAL COLLECTED FROM THE SILTATION BARRIERS SHALL BE REMOVED AS NECESSARY AND DISPOSED IN AN UPLAND AREA.
- 18. INSTALLATION OF THE EROSION CONTROL BARRIERS AS ILLUSTRATED IS INTENDED TO REPRESENT THE MINIMUM SEDIMENTATION CONTROL FACILITIES NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 19. REQUIRED SEDIMENTATION CONTROL FACILITIES MUST BE PROPERLY ESTABLISHED, CLEARLY VISIBLE AND IN OPERATION PRIOR TO INITIATING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK. SUCH FACILITIES SHALL REPRESENT THE LIMIT OF WORK. WORKERS SHALL BE INFORMED THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- 20. CATCH BASINS AND STORM DRAIN INLETS SHALL BE PROTECTED WITH INLET PROTECTION WITHIN AND IMMEDIATELY DOWNSTREAM OF THE
- 21. THE CONTRACTOR SHALL NOT REMOVE ANY HAYBALES, SILT FENCE OR OTHER EROSION CONTROLS UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
- 22. RIP-RAP OR OTHER ENERGY DISSIPATERS SHALL BE USED WHERE NECESSARY TO PREVENT SCOUR.
- 23. NO STORAGE OF MATERIAL INCLUDING BUT NOT LIMITED TO COMPOST OR GRASS CLIPPINGS WITHIN 100 FOOT WETLAND BUFFER.
- 24. SHOULD ANY EROSION OR SEDIMENTATION CONTROL MEASURES FAIL, IMMEDIATE ATTENTION SHALL BE GIVEN BY THE CONTRACTOR TO CORRECTING THE FAILURE AND TO RECTIFYING ANY ADVERSE IMPACT FROM THE FAILURE. RIDEM AND ENGINEER MUST BE NOTIFIED WITHIN 24 HOURS OF THE FAILURE.

GRADING AND UTILITY NOTES

- ALL WORK PERFORMED AND ALL MATERIALS FURNISHED SHALL CONFORM WITH THE LINES AND GRADES ON THE PLANS AND SITE WORK SPECIFICATIONS, UNLESS OTHERWISE DIRECTED.
- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
- ALL EXISTING AND PROPOSED UTILITY COVERS AND GRATES SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE OF THIS CONTRACT. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINAL GRADES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION OF PRIVATE UTILITIES BY THE UTILITY COMPANIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE OWNER'S REPRESENTATIVE
- THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRUCTION LOADS SHALL BE RESTORED TO ORIGINAL CONDITION AT NO COST TO THE OWNER.
- DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES BY PROVIDING TEMPORARY SUPPORTS OR SHEETING AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATION REQUIRED WITHIN THE PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. THE CONTRACTOR SHALL REPAIR ANY
- DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
- 9. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS SPECIFIED.
- 10. ALL WORK SHALL COMPLY WITH ADA AND RI GOVERNORS COMMISSION ON DISABILITIES REQUIREMENTS.
- 11. ALL TRANSITIONS BETWEEN GROUND COVERING MATERIALS SHALL BE SMOOTH.
- 12. ALL PLUMBING/MECHANICAL UTILITIES WITHIN 10 FEET OF THE BUILDING ARE SHOWN ON THE PLUMBING/MECHANICAL PLANS.
- 13. THE CONTRACTOR IS REQUIRED TO APPLY FOR, OBTAIN, AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION PHASE PERMITS.
- 14. WATER PIPES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 5 FEET.
- 16. 10 FOOT OFFSET WATER (DOMESTIC AND FIRE) FROM SANITARY SEWER. ALL OTHER UTILITIES REQUIRE MINIMUM 5 FOOT SEPARATION FROM OTHER UTILITIES. WHERE 10 FOOT OFFSET CANNOT BE PROVIDED, WATER SHALL BE SLEEVED.
- 17. ALL GATE VALVES SHALL "OPEN RIGHT".
- 18. USE OF FIRE HYDRANTS FOR DEMOLITION OR CONSTRUCTION IS NOT PERMITTED UNLESS APPROVED BEFOREHAND BY THE PAWTUCKET WATER SUPPLY BOARD.

LAYOUT NOTES

- ALL LINES ARE PERPENDICULAR OR PARALLEL TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED
- DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 3. ACCESSIBLE RAMPS SHALL BE PER THE (ADA) ACCESSIBILITY GUIDELINES AND THE STATE STANDARDS AND INCLUDE DETECTABLE WARNING MATS. DETECTABLE WARNING PANELS SHALL BE CAST IRON, SEE SPECIFICATION SECTION 32 13 13.
- 4. AUTOCAD PLANS OR ADDITIONAL COORDINATES WILL BE PROVIDED AFTER THE AWARD OF THE BID.

EXISTING LEGEND

EXISTING LE	GEND	PROPOSE	ED LEGEND
—·——·——	- LOCUS PROPERTY LINE	CURBING(TYPE)	
	- INTERNAL PROPERTY LINE	EDGE OF PAVEMENT	
	- ABUTTER PROPERTY LINE	RETAINING WALL	
	- EASEMENT LINE	INTERMEDIATE CONTOUR	
	ZONING	INDEX CONTOUR	(200)
— — — 115 — — — —	- INDEX CONTOUR	SPOT ELEVATION	
114	- INTERMEDIATE CONTOUR		+(200.00)
201.3 ×	- SPOT GRADE	WATER LINE	——— W ———
	- EDGE OF WOODS	SEWER LINE	SS
	- EDGE OF SCRUB BRUSH	DRAIN LINE	D
-	- STONEWALL	GAS LINE	
X	- FENCE	DRAIN MANHOLE	• DMH
	- GUARDRAIL	CATCH BASIN	■ CB
SS	- UNDERGROUND SEWER LINE	HYDRODYNAMIC SEPARATOR	• HS
——————————————————————————————————————	- UNDERGROUND DRAIN LINE	AREA / YARD DRAIN	AD / YD
——————————————————————————————————————	- UNDERGROUND WATER LINE	RAIN GARDEN OUTLET	0
———— GAS ————	- UNDERGROUND GAS LINE	SEWER MANHOLE	• SMH
——— E ——— E ———	- UNDERGROUND ELECTRIC LINE	WATER VALVE	₩ WG
	- OVER HEAD WIRE	HYDRANT	×
	- WETLAND LINE	SIGN	•
	- ROAD/PARKING STRIPES	CHAIN LINK FENCE	
	- CONCRETE	WATER VALVE HYDRANT SIGN	
	- BUILDING	TREE LINE	
	- EDGE OF PAVEMENT	(LIMIT OF CLEARING)	
	- CURB LINE	BITUMINOUS PAVEMENT	
	ZONING LINE	CONCRETE WALK	
	- FEMA LINE	(SEE LANDSCAPE PLANS FOR FINISHES)	
A 1	- 100 FT. WETLAND BUFFER	CONSTRUCTION ENTRANCE	
<u>A-1</u> <u>A-2</u>	- WETLAND EDGE	TRACKING CONTROL	
MONST	- DRILL HOLE	EROSION CONTROL	
MONST	- CONCRETE BOUND WITH DRILL HOLE	LIMIT OF DISTURBANCE	— — — LOD —
. MH	- STONE BOUND WITH DRILL HOLE	INLET PROTECTION	### 1 1 1 2
·	- UNKNOWN MANHOLE		
E	- ELECTRIC MANHOLE		

- ELECTRIC CONDUIT

ELECTRIC HAND HOLE

· TELEPHONE/CABLE MANHOLE

TELEPHONE/CABLE PEDESTAL

TELEPHONE/CABLE HAND HOLE

- UTILITY POLE

LIGHT POLE

- GUY WIRE

- GAS VALVE

- GAS METER

SEWER MANHOLE

DRAIN MANHOLE

CATCH BASIN

TOP OF HOOD

- TOP OF WATER

VENT

WELL

- SIGN

- SHRUB

BOLLARD

- TEST PIT

TEST BORING

- EDGE OF PAVEMENT

GRANITE CURB WITH BEVELED EDGE

CONCRETE RETAINING WALL

CONCRETE HEADWALL

CONCRETE WALKWAY

CAPE COD BERM

GRANITE CURB

CROSS WALK

WOOD FENCE

CHAIN LINK FENCE

POST & RAIL FENCE

METAL HANDRAIL

HANDI-CAP RAMP

WOOD GUARDRAIL UPPER BONNET BOLT

AMERICANS WITH DISABILITIES ACT

- BEST MANAGEMENT PRACTICES

CONCRETE PAD

METAL

- FLAG POLE

ROCK

- HYDRANT

WATER VALVE

WATER SHUT OFF

- GEOTHERMAL WELL

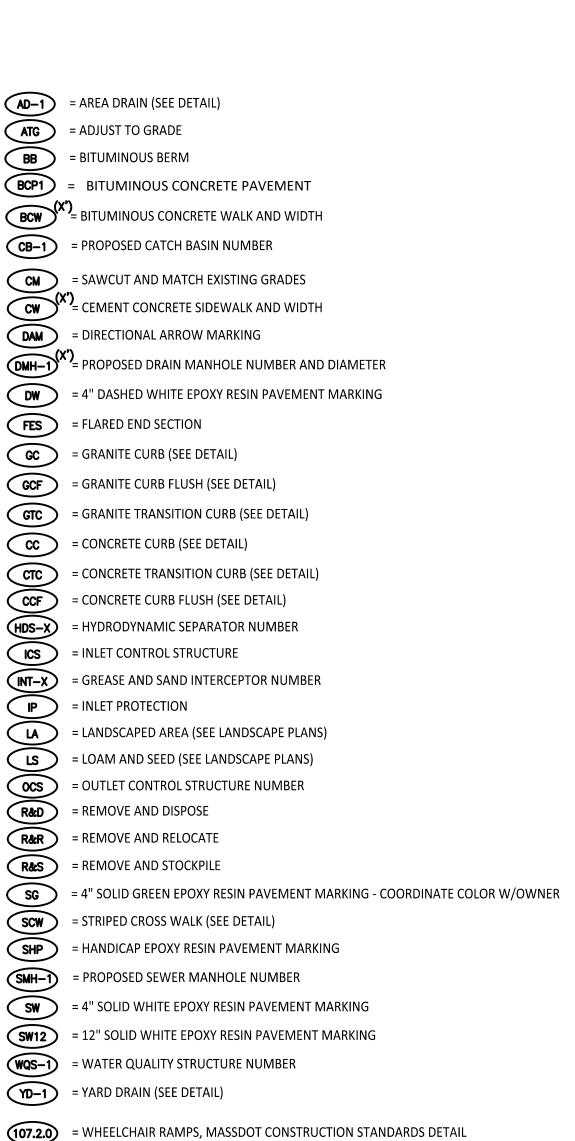
CONIFEROUS TREE

DECIDUOUS TREE

WETLAND FLAG

IRRIGATION CONTROL VALVE

AIR CONDITIONER AND AG HEATING



(107.3.0) = WHEELCHAIR RAMPS, MASSDOT CONSTRUCTION STANDARDS DETAIL

(107.6.0) = WHEELCHAIR RAMPS, MASSDOT CONSTRUCTION STANDARDS DETAIL

201.4.0 = PRECAST CONCRETE CATCH BASIN, MASSDOT CONSTRUCTION STANDARDS DETAIL

(107.6.5) = DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS, MASSDOT CONSTRUCTION STANDARDS DETAIL



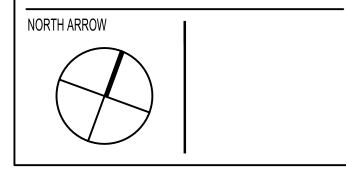


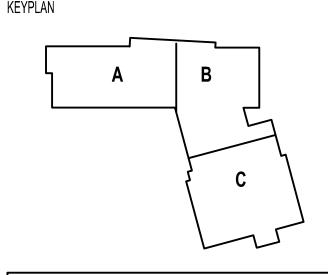
The Vertex Companies, LLC 400 Libbey Parkway Weymouth, MA 02189 **PHONE** 781.952.6000 www.vertexeng.com



CENTRAL FALLS HIGH SCHOOL 10 HIGGINSON AVE, CENTRAL FALLS, RI KEYNOTE LEGEND:

100% CONSTRUCTION DOCUMENTS





DRAWING NAME:

GENERAL NOTES AND LEGEND

DRAWN BY: REVIEWED BY AS NOTED | DRAWING NUMBER:

- EXISTING UTILITY INFORMATION SHOWN HEREON IS BASED UPON PREVIOUS DESIGN DRAWINGS AND RECORD INFORMATION. LOCATIONS, SIZES, AND DEPTHS OF UTILITIES HAVE NOT BEEN SURVEYED IN THE FIELD. ADDITIONAL SITE SURVEY IS ONGOING.
- DEMOLITION OF EXISTING BUILDING AND SITE FEATURES ARE INCLUSIVE OF ALL PHASES. PROPOSED DEMOLITION ACTIVITIES SHOWN ON THESE SHEETS ARE NOT
- ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF ANY EARTH MOVING ACTIVITIES.

INTENDED TO INDICATE THE PHASE IN WHICH THEY OCCUR. SEE PHASING DRAWINGS FOR DEMOLITION SPECIFIC TO PHASING.

- THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S PROJECT MANAGER PRIOR TO COMMENCING DISTURBANCE. EROSION AND SEDIMENT

CONTROLS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE LATEST REVISION OF THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

- INSTALL CHAIN LINK FENCE TREE PROTECTION AT THE LOCATIONS SHOWN ON THE PLAN TO PROTECT EXISTING TREES SPECIFICALLY INDICATED ON THE PLAN. LAYOUT OF FENCE SHALL BE REVIEWED AND APPROVED BY THE LANDSCAPE ARCHITECT. TREE PROTECTION SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.
- ALL EXISTING DRAINAGE SHALL BE MAINTAINED OR REROUTED AS NECESSARY UNTIL PERMANENT PIPING IS INSTALLED.
- ELECTRICAL DEMOLITION IS SHOWN FOR INFORMATION ONLY. REFER TO ELECTRICAL PLANS FOR COMPLETE EXTENT OF ELECTRICAL DEMOLITION.
- PROVIDE INLET PROTECTION AT ALL EXISTING DRAINAGE INLETS.
- 10. ALL ITEMS TO BE REMOVED AND STOCKPILED SHALL BE COORDINATED WITH OWNER FOR STOCKPILE LOCATIONS. AT THIS TIME, THE OWNER HAS NOT IDENTIFIED ITEMS FOR STOCKPILE.
- 11. ALL ITEMS MARKED FOR RE-USE SHALL BE STOCKPILED ONSITE, PROTECTED AND RE-INSTALLED AS SHOWN ON THE LANDSCAPE PLANS.
- 12. DRAINAGE FEATURES AND UTILITIES TO BE MAINTAINED UNLESS OTHERWISE NOTED.
- 13. TOTAL AREA OF DISTURBANCE: 2.3 ACRES.
- 14. CONTRACTOR TO REESTABLISH BENCHMARKS IN ALTERNATE LOCATION PRIOR TO CONSTRUCTION.
- 15. CONTRACTOR SHALL COORDINATE CLEARING OF ALL ABUTTER ENCROACHMENTS WITH THE CITY OF CENTRAL FALLS PRIOR TO CONSTRUCTION.
- INSTALL CONSTRUCTION ENTRANCE AT ALL ENTRY/EXIT POINT FOR VEHICULAR TRAFFIC FOR EACH PHASE OF THE PROJECT.
- 17. ALL EARTH DISTURBANCE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 18. ACTIVE UTILITY LINES (INCLUDING SEWER, WATER, AND DRAINAGE), CONTRACTOR SHALL PROVIDE 1 WEEK NOTIFICATION FOR ANY POSSIBLE DISRUPTION OF SERVICE TO OWNER, OWNER'S REPRESENTATIVE AND ARCHITECT; PROVIDE NOTIFICATION FOR CONNECTING, DISCONNECTING, TURNING ON OR TURNING OFF ANY SERVICE WHICH MAY AFFECT USERS OF THE RESPECTIVE UTILITY.
- 19. CONTRACTOR SHALL PROVIDE 72 HOUR (3 WORKING DAYS) NOTICE TO LOCAL FIRE DEPARTMENT OF DISRUPTIONS.
- 20. DISTURBANCE ON ACTIVE GAS LINES SHALL BE COORDINATED WITH UTILITY PROVIDER.
- 21. THE CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF THE EXISTING DRAINAGE MANHOLES AND PIPES INDICATED. IT SHALL BE ASSUMED THAT AN ADDITIONAL 60 FEET OF PIPE WILL NEED TO BE REMOVED AND DISPOSED.
- 22. ANY UNFORESEEN UNDERGROUND TRANSITE PIPE OR OTHER UNFORESEEN HAZARDOUS MATERIAL SHALL BE ABATED IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 23. CONTRACTOR SHALL COMPLY WITH ALL CHPS REQUIREMENTS FOR DEMOLITION.
- 24. ALL EXISTING MANHOLES OR CATCH BASINS TO REMAIN SHALL BE ADJUSTED TO FINISHED GRADE ELEVATION.
- 25. ALL EXISTING UTILITIES WITHIN TREE PROTECTION AREAS NOT SCHEDULED FOR RE-USE SHALL BE CUT, CAPPED, AND ABANDONED IN PLACE.
- 26. DEMOLITION WORK SHOWN ON THIS SHEET IS INDEPENDENT OF PROJECT PHASING OR SEQUENCING. CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING ALL WORK AS OUTLINED IN THE PROJECT SPECIFICATIONS.
- 27. CONTRACTOR SHALL SCHEDULE PRECONSTRUCTION MEETING WITH ARCHITECT, LANDSCAPE ARCHITECT, CIVIL ENGINEER, STRUCTURAL ENGINEER, AND OWNER'S PROJECT MANAGER PRIOR TO DEMOLITION OF EXISTING SERVICE AREA TO CONFIRM EXTENT OF DEMOLITION AND SAWCUT LOCATIONS.
- 28. THE CONTRACTOR MUST CONTACT THE APPROPRIATE PRIVATE UTILITY COMPANIES AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK BEING COMPLETED. THE CONTRACTOR IS HEREBY NOTIFIED THAT SOME PUBLIC AND PRIVATE UTILITY COMPANIES ARE NOT PART OF "DIGSAFE" AND MAY HAVE ADDITIONAL NOTIFICATION REQUIREMENTS.
- 29. CUT AND CAP EXISTING WATER AND SEWER SERVICES AT THE MAIN PRIOR TO ANY BUILDING DEMOLITION.
- 30. USE OF FIRE HYDRANTS FOR DEMOLITION OR CONSTRUCTION IS NOT PERMITTED UNLESS APPROVED BEFOREHAND BY THE PAWTUCKET WATER SUPPLY BOARD.
- 31. THE CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, ADDITIONAL SILTATION FENCING AND FILTER FABRIC FOR INSTALLATION AS DIRECTED BY THE CITY TO MITIGATE ANY EMERGENCY CONDITIONS.
- 32. CONTRACTOR TO CAMERA INSPECT AND LOCATE EXISTING SEWER AND DRAIN THROUGHOUT SITE.
- 33. EXISTING SEWER AND DRAIN MUST REMAIN ACTIVE AT ALL TIMES.
- 34. NO CONTRACTOR PARKING ON ROADWAYS.
- 35. THE CONCRETE CULVERT AND TWIN 48" PIPES ARE PART OF AN ACTIVE COMBINED SEWER OVERFLOW SYSTEM. IT IS ANTICIPATED THAT FLOWS OF UP TO 40 MGD MAY OCCUR DURING SIGNIFICANT WET WEATHER EVENTS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE CAPABILITY TO BYPASS PUMP SUCH FLOWS AT ALL TIMES WHEN THE PIPELINE IS DISRUPTED FOR RE-ROUTING. BYPASS PUMPING SYSTEM SHALL INCLUDE BOTH PRIMARY AND BACKUP CAPACITY.
- 36. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE CAPABILITY TO BYPASS PUMP FLOWS AT ALL TIMES WHEN THE EXISTING DRAINAGE SYSTEM IS DISRUPTED FOR RE-ROUTING. BYPASS PUMPING SYSTEM SHALL INCLUDE BOTH PRIMARY AND BACKUP CAPACITY.
- 37. IRRIGATION SYSTEM INFORMATION HAS BEEN OBTAINED FROM THE "GRADING AND IRRIGATION PLAN" FROM WILFRID L. GATES JR LANDSCAPE ARCHITECT DATED
- 38. BORING AND MONITORING WELL INFORMATION HAS BEEN OBTAINED FROM THE FOLLOWING:

THE CENTRAL FALLS DPW AT 1280 HIGH STREET, CENTRAL FALLS, RI 02863.

- PHASE I ENVIRONMENTAL SITE ASSESSMENT PREPARED BY SAGE ENVIRONMENTAL, INC. DATED NOVEMBER 8, 2021 SITE INVESTIGATION REPORT PREPARED BY SAGE ENVIRONMENTAL, INC. DATED MAY 2023
- PRELIMINARY GEOTECHNICAL REPORT PREPARED BY LAHLAF GEOTECHNICAL CONSULTING, INC. DATED FEBRUARY 7, 2023
- 38. LIGHT POLES AND FIXTURES AT THE EXISTING BASKETBALL COURTS AND THE EXISTING FLAG POLE SHALL BE REMOVED AND SALVAGED. THESE SHALL BE DELIVERED TO
- 39. THE CONTRACTOR SHALL CLEAR AND GRUB ALL EXISTING VEGETATION WITHIN THE LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
- 40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RELATED TO DEWATERING EXCAVATION, BOTH FROM GROUNDWATER AND STORMWATER RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING FLOW RATES AND VOLUMES. DISCHARGE OF DEWATERING EFFLUENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE AUTHORITY HAVING JURISDICTION.

BID ALTERNATE NOTES:

BASE BID AND ALTERNATE.

ALTERNATE 2 - OUTDOOR FURNITURE: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

ALTERNATE 3 - OUTDOOR CLASSROOM: OUTDOOR CLASSROOM FEATURES ASSOCIATED WITH THE ALTERNATE ARE SHOWN AS BACKGROUND INFORMATION ON THIS SHEET. DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH

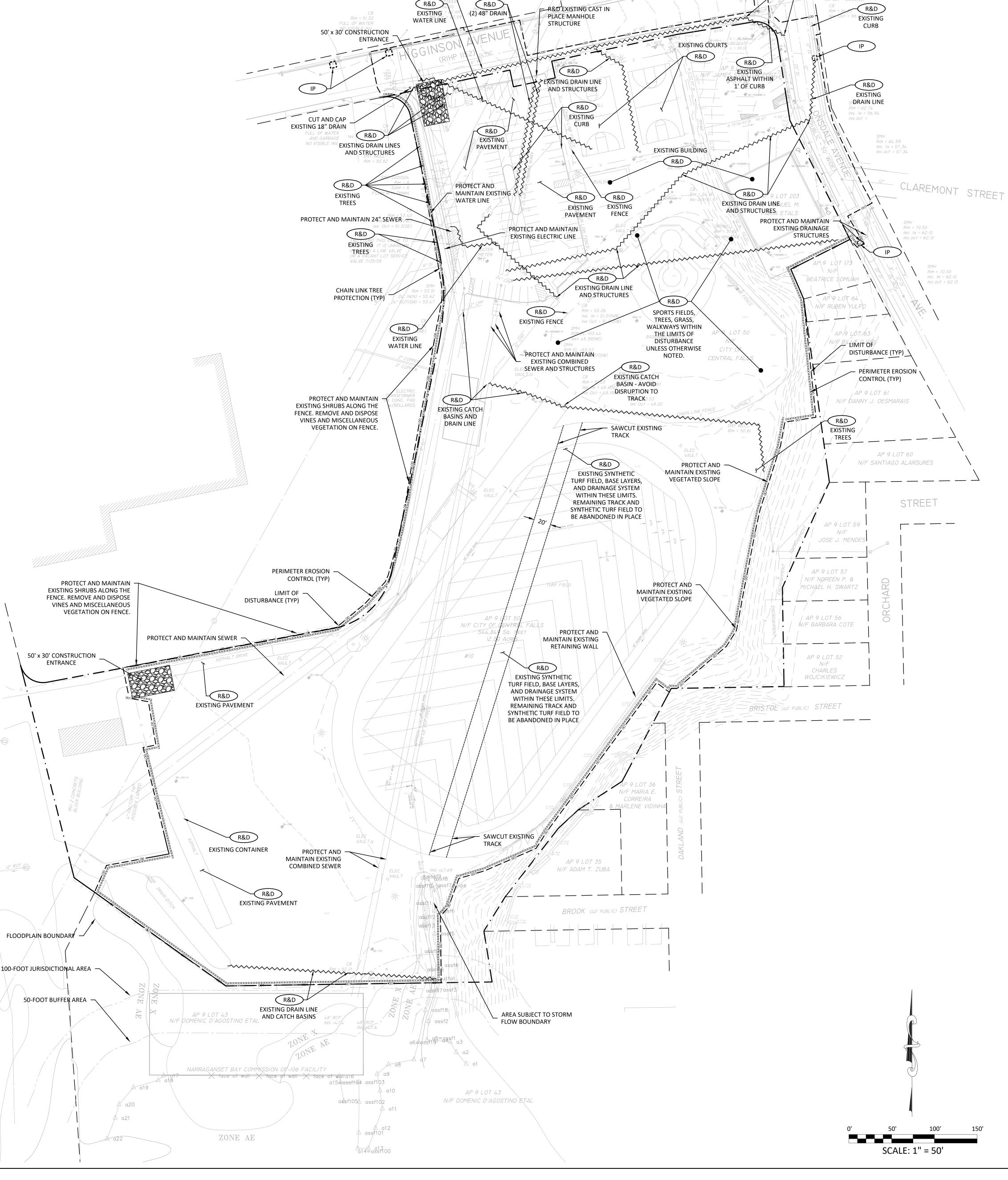
BOTH THE BASE BID AND ALTERNATE. ALTERNATE 5 - FREIGHT FARM UNIT: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE

BASE BID AND ALTERNATE. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

ALTERNATE 6 - THROWING EVENTS: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE

ALTERNATE 9 - SPORTS LIGHTING: ALL WORK SHOWN ON THE CIVIL DRAWING SHEETS ARE ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO THE ELECTRICAL DRAWINGS FOR INFORMATION REGARDING SITE ELECTRIC.

ALTERNATE 10 - TREES: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.



RIM = 54.77

(R&D)

EXISTING

ASPHALT WITHIN

1' OF @⊎RB7.4

INV. IN = 45.36(E)

INV. OUT = 45.36(W)

INV. IN = 42.58

INV. IN = 53.38(SE)

INV. IN = 50.78(E)

INV. IN = 50.68(N)

INV. OUT = 50.58(SW)

EXISTING

EXISTING DRAIN LINE

AND STRUCTURES



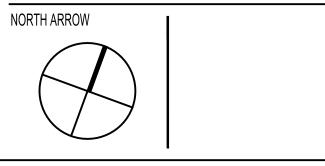


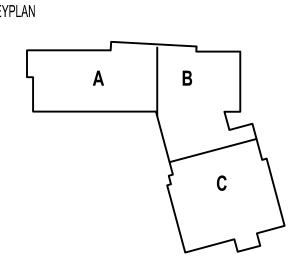
The Vertex Companies, LLC 400 Libbey Parkway Weymouth, MA 02189 **PHONE** 781.952.6000 www.vertexeng.com



CENTRAL FALLS HIGH SCHOOL 10 HIGGINSON AVE, CENTRAL FALLS, RI **KEYNOTE LEGEND:**

100% CONSTRUCTION DOCUMENTS





DRAWING NAME: **EXISTING CONDITIONS** AND DEMOLITION PLAN

DRAWN BY: REVIEWED BY: SCALE: AS NOTED | DRAWING NUMBER: JOB NO.: DATE: OCTOBER 13, 2023

NOTES: EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE DURATION OF CONSTRUCTION. AT A MINIMUM, PERIMETER HAY BALES, VEHICLE TRACKING CONTROL, INLET PROTECTION, CONCRETE WASHOUT AREAS AND TEMPORARY SEDIMENTATION BASINS SHOULD BE CONSIDERED. 2. CURBING SHALL BE PROVIDED AS NOTED IN ALL PARKING AREAS AT THE EDGE OF THE PAVEMENT AND ADJACENT TO SIDEWALKS. 3. WHERE SIDEWALKS INTERSECT CURB LINES, ADA COMPLIANT CURB RAMP WITH DETECTABLE WARNING 4. CONCRETE WALKWAY MATERIALS SHOWN FOR CLARITY ONLY. REFER TO LANDSCAPE PLANS FOR ALL WALKWAY MATERIALS, FINISHES, AND SCORING.

- WHERE EXISTING UTILITIES ARE TO REMAIN, ALL RIMS, COVERS, GRATES AND HATCHES SHALL BE ADJUSTED TO FINISHED GRADE.
- ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE RAWP. SITE WIDE CAPPING IS THE REMEDIAL ACTION IDENTIFIED IN THE PLAN. THE CONTRACTOR SHALL CAP ALL AREAS WITHIN THE LIMIT OF DISTURBANCE AS DESCRIBED BELOW UNLESS NOTED OTHERWISE. ALL FILL MATERIAL USED AS CLEAN FILL WITHIN 12 INCHES OF FINAL GRADE SHALL BE SAMPLED FOR COMPLIANCE PRIOR TO IMPORTATION.
 - OF ASPHALT OR CONCRETE PAVEMENT. SURFACE SOIL IN THE PROPOSED HARDSCAPE AREAS CAN EITHER BE EXCAVATRED OR REPLACED, OR THE ASPHALT/CONCRETE SURFACING AND/OR
 - LANDSCAPE: A MINIMUM OF 12 INCHES OF CLEAN FILL PLACED OVER A NON-WOVEN
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL DEPTH RESTORATION OF THE EXISTING TRACK SURFACE WHERE DISTURBED FOR INSTALLATION OF DRAINAGE PIPES. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESURFACING OF THE ENTIRE EXISTING TRACK. REFER TO THE LANDSCAPE PLANS FOR TRACK RESTORATION DETAILS.

BID ALTERNATE NOTES:

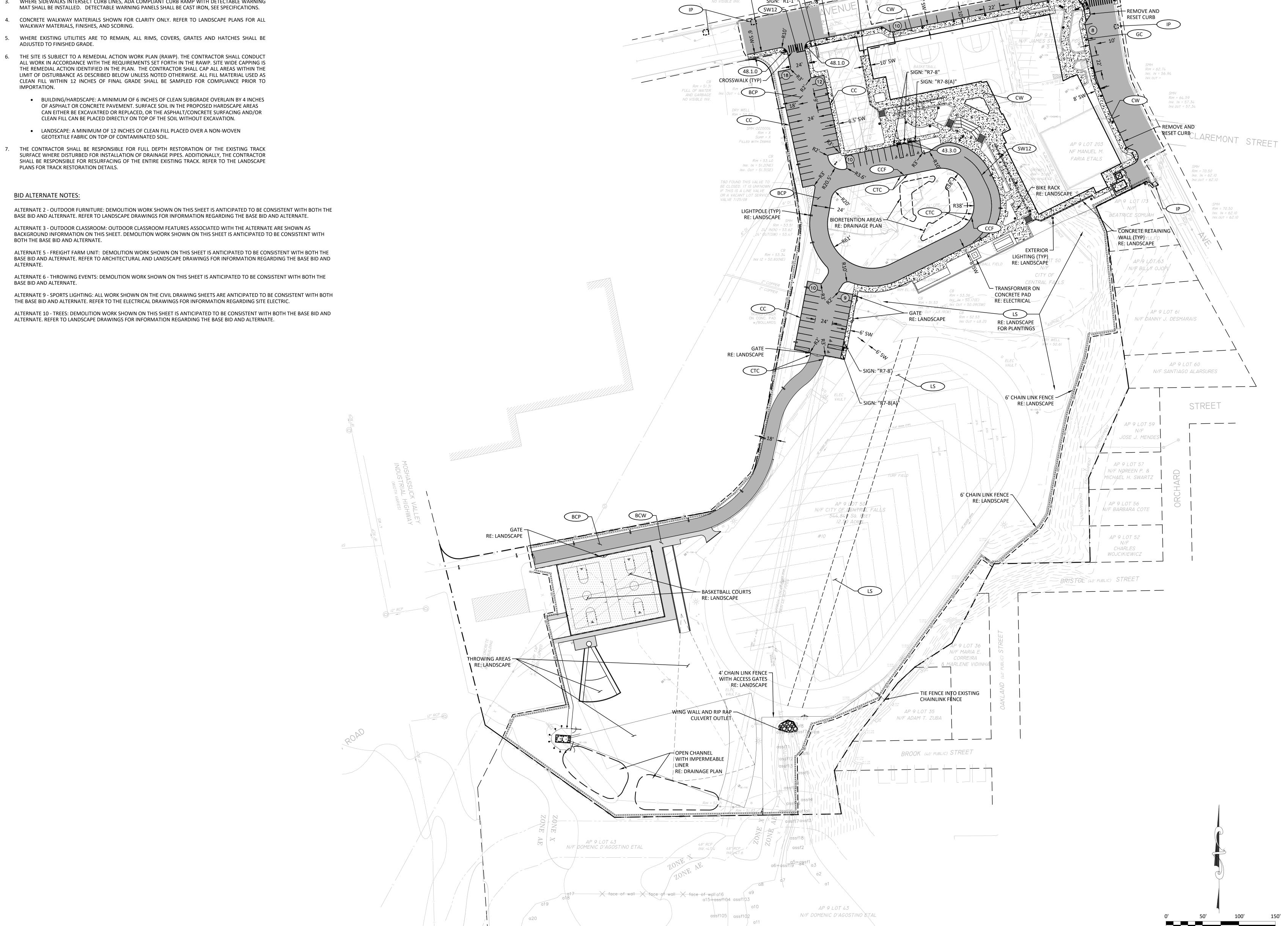
ALTERNATE 2 - OUTDOOR FURNITURE: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

BACKGROUND INFORMATION ON THIS SHEET. DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.

BASE BID AND ALTERNATE. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND

BASE BID AND ALTERNATE.

ALTERNATE 10 - TREES: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND



ZONE AE

a14=a55f100

INV. IN = 50.78(E)

INV. IN = 50.68(N)

INV. OUT = 45.36(W)

CONCRETE RETAINING

WALL (TYP)

RE: LANDSCAPE_/

REMOVE AND -

PROPOSED SIGN HT

RE: LANDSCAPE

REMOVE AND -

FURESET, CURB

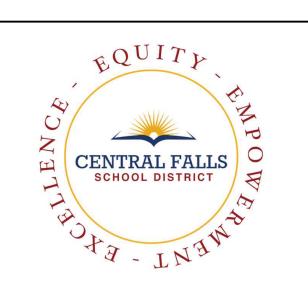
RESET CURB

INV.OUT = 42.51

INV, 12" IN = 43.09

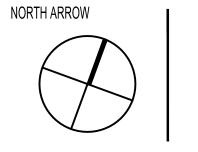


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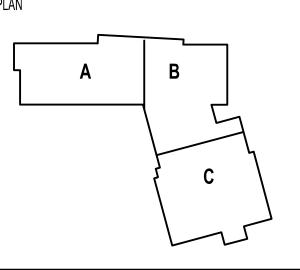


CENTRAL FALLS HIGH SCHOOL 10 HIGGINSON AVE, CENTRAL FALLS, RI KEYNOTE LEGEND:

100% CONSTRUCTION DOCUMENTS



DRAWING NAME:



DRAWN BY: REVIEWED BY: SCALE: AS NOTED | DRAWING NUMBER:

GRADING NOTES: MIN. OF 1/8" PER FOOT UNLESS SPECIFIED. WRITING FOR RESOLUTION. 3. ALL TRANSITIONS BETWEEN GROUND COVERING MATERIALS SHALL BE SMOOTH. ALL WALKWAYS SHALL NOT EXCEED 5%. 5. REFER TO DRAINAGE PLANS FOR ALL DRAINAGE STRUCTURE RIM ELEVATIONS. LANDSCAPE DRAWINGS FOR THE REVEAL HEIGHT OF EACH SITE WALL. COST ESTIMATING NOTES: AND STRUCTURES. 2. FOR COST ESTIMATING PURPOSES THE FOLLOWING IS ASSUMED: APPROXIMATELY 2,500 CUBIC YARDS OF THE MATERIAL WILL BE SPREAD THROUGHOUT THE SOUTHERN PORTION OF THE SITE, IN LOCATIONS DEPTH WILL BE TAPERED DOWN AT THE PERIMETER OF THE WORK TO MEET EXISTING SURFACE ELEVATIONS.

- 1. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A
- 2. SITE GRADES SHALL CONFORM WITH ADA REQUIREMENTS. IN AREAS WHERE THESE REQUIREMENTS CANNOT BE MET, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN
- 4. CROSS SLOPES FOR ALL WALKWAYS SHALL NOT EXCEED 2% AND RUNNING SLOPES FOR
- 6. TOP OF WALL (TOW) AND BOTTOM OF WALL (BOW) ELEVATIONS SHOWN ON THIS PLAN INDICATE THE GROUND ELEVATION IMMEDIATELY ADJACENT TO THE WALL. REFER TO THE
- 1. IT IS ANTICIPATED THAT APPROXIMATELY 5,800 CUBIC YARDS OF MATERIAL WILL BE EXCAVATED FROM THE NORTHERN PORTION OF THE SITE AND THIS MATERIAL WILL BE UNSUITABLE FOR USE BELOW PROPOSED PAVED SURFACES
- WHERE THE PROPOSED FINISHED SURFACE IS TO BE UNPAVED/PERVIOUS. THIS IS ANTICIPATED TO BE AN APPROXIMATE DEPTH OF 1.5 FEET. THIS
- ONE FOOT (12 INCHES) OF IMPORTED MATERIAL WILL BE SPREAD ABOVE THIS REUSED ON-SITE MATERIAL. GEOTEXTILE WILL BE UTILIZED TO SEPARATE ON-SITE AND IMPORTED MATERIAL. IT IS ANTICIPATED THAT THE FINAL GRADE WILL BE APPROXIMATELY 2.5 FEET ABOVE THE EXISTING GRADE THROUGHOUT THE UNPAVED/PERVIOUS SURFACES ON THE SOUTHERN PORTIONS OF THE SITE. THIS DEPTH WILL BE TAPERED DOWN AT THE PERIMETER OF THE WORK TO MEET EXISTING SURFACE ELEVATIONS.
- 2.3. IT IS ANTICIPATED THAT APPROXIMATELY 3,300 CUBIC YARDS OF EXCAVATED ON-SITE SOILS WILL BE TAKEN OFF SITE FOR DISPOSAL.

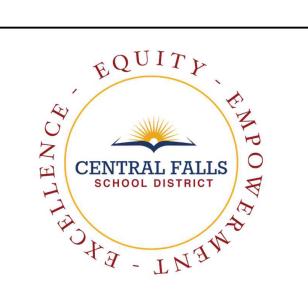
BID ALTERNATE NOTES:

- ALTERNATE 2 OUTDOOR FURNITURE: GRADING WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.
- ALTERNATE 3 OUTDOOR CLASSROOM: OUTDOOR CLASSROOM FEATURES ASSOCIATED WITH THE ALTERNATE ARE SHOWN AS BACKGROUND INFORMATION ON THIS SHEET. GRADING WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.
- ALTERNATE 5 FREIGHT FARM UNIT: GRADING WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.
- ALTERNATE 6 THROWING EVENTS: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.
- ALTERNATE 9 SPORTS LIGHTING: ALL WORK SHOWN ON THE CIVIL DRAWING SHEETS ARE ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO THE ELECTRICAL DRAWINGS FOR INFORMATION REGARDING SITE ELECTRIC.
- ALTERNATE 10 TREES: GRADING WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.



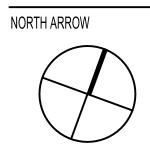


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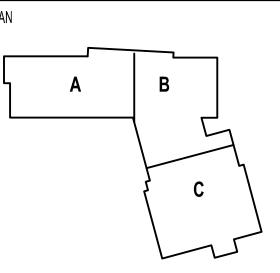


CENTRAL FALLS HIGH SCHOOL 10 HIGGINSON AVE, CENTRAL FALLS, RI KEYNOTE LEGEND:

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KEYPLAN



DRAWING NAME:

GRADING PLAN

DRAWN BY: REVIEWED BY:

AS NOTED | DRAWING NUMBER: JOB NO.: DATE: OCTOBER 13, 2023

NOTES

- WORK ON ACTIVE UTILITY LINES (INCLUDING SEWER, WATER, AND DRAINAGE) SHALL BE COORDINATED AND SCHEDULED WITH THE OWNER PRIOR TO EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL MAINTAIN EXISTING PUBLIC SEWER AND DRAIN THROUGHOUT THE DURATION OF THE PROJECT. AT NO TIME SHALL THESE UTILITIES BE TAKEN OUT OF SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE UTILITY OWNER. IF TEMPORARY SHUTDOWN IS NECESSARY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH UTILITY
- 3. WORK ON EXISTING GAS LINES, INCLUDING CAPPING, SHALL BE COORDINATED WITH LOCAL GAS COMPANY.
- 4. POLYVINYL CHLORIDE PIPE AND FITTINGS (PVC) SHALL BE MINIMUM SDR 35 WITH FULL DIAMETER DIMENSIONS CONFORMING TO THE SPECIFICATIONS FOR TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION D3034 LATEST REVISION, FOR SIZES 18 INCHES TO 27 INCHES THE PIPE SHALL COMPLY WITH ASTM F679, LATEST RECORD.
- 5. MANHOLE FRAMES AND COVERS SHALL BE MINIMUM CLASS 25 CONFORMING TO ASTM "STANDARD SPECIFICATION FOR GRAY IRON CASTINGS," DESIGNATION: A48.
- 6. ALL WATER MAINS SHALL BE DUCTILE IRON CLASS 52 WITH PUSH ON JOINTS (UNLESS OTHERWISE SPECIFIED) MEETING THE REQUIREMENTS OF ANSI/AWWA C151/A21.51. ALL DUCTILE IRON WATER MAIN PIPE SHALL BE CEMENT LINED, WITH AN ASPHALTIC SEAL COAT MEETING THE REQUIREMENTS OF ANSI/AWWA C104/A21.4.
- 7. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL WATERLINE BENDS AND TEES IN ACCORDANCE WITH THE SPECIFICATIONS.
- 8. ALL EXISTING STRUCTURES TO REMAIN WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED TO FINISH GRADE. MINIMUM AND MAXIMUM NUMBER OF SEWER BRICK COURSES USED FOR GRADE ADJUSTMENT SHALL BE IN ACCORDANCE WITH UTILITY OWNERS STANDARDS. THIS SHALL INCLUDE THE NARRAGANSETT BAY COMMISSION TRANSITION CHAMBER WITH ALUMINUM HATCH
- 9. ALL PRECAST CONCRETE MANHOLES FOR SANITARY AND DRAINAGE SHALL CONFORM TO THE ASTM "SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS," DESIGNATION D478. THE BARREL SHALL BE 4-FOOT WITH A 1-FOOT COLLAR TO PREVENT FLOTATION.
- 10. ALL DUCTILE IRON WATER PIPE SHALL BE PRESSURE TESTED FOR 2 HOURS.
- 11. ALL WATERLINE CONNECTIONS SHALL REQUIRE A SHUTDOWN. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SHUTDOWN WITH THE PAWTUCKET WATER SUPPLY BOARD TWO WEEKS IN ADVANCE OF WORK.
- 12. ALL UTILITY AND DRAINAGE INSTALLATION SHALL BE INSPECTED BY THE PAWTUCKET WATER SUPPLY BOARD. CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO PAWTUCKET WATER SUPPLY BOARD PRIOR TO INSTALLATION.
- 13. ALL WATERLINE GATE VALVES SHALL OPEN RIGHT. ALL HYDRANTS SHALL OPEN LEFT.
- 14. MINIMUM VERTICAL SEPARATION BETWEEN ALL UTILITY PIPES SHALL BE EIGHTEEN (18) INCHES. IF VERTICAL SEPARATIONS ARE LESS THAN EIGHTEEN (18) INCHES, THE UTILITY PIPES SHALL BE REINFORCED AND PROTECTED AS REQUIRED BY CURRENT CITY AND UTILITY AGENCY STANDARD SPECIFICATIONS.
- 15. WATER AND SANITARY SEWER LINES SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF TEN (10) FEET. WHEN A TEN (10) FOOT SEPARATION IS NOT PROVIDED OR WHEN SEWER LINES CROSS WATER LINES WITH LESS THAN ONE AND ONE-HALF (1 $\frac{1}{2}$) FEET OF VERTICAL SEPARATION, SEWER JOINTS SHALL BE CONCRETE ENCASED. FOR PERPENDICULAR CROSSINGS, ENCASED JOINTS SHALL EXTEND TEN (10) FEET, PERPENDICULAR TO THE WATER LINE IN BOTH DIRECTIONS.
- 16. THE LENGTH OF SANITARY SEWER LINE IS THE HORIZONTAL DISTANCE BETWEEN CENTER OF MANHOLE TO CENTER OF MANHOLE. THEREFORE, THE DISTANCES INDICATED ON THE PLANS ARE APPROXIMATE AND COULD VARY DUE TO VERTICAL ALIGNMENT AND MANHOLE DIMENSIONS.
- 17. ALL PLUMBING/MECHANICAL UTILITIES WITHIN 10 FEET OF THE BUILDING ARE SHOWN ON THE PLUMBING/MECHANICAL PLANS.
- 18. REFER TO ELECTRICAL PLANS FOR SITE ELECTRICAL ROUTING.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE LOCATION AND ELEVATION OF EXISTING WYES PRIOR TO INSTALLATION OF EXTERIOR SEWER PIPING.

BID ALTERNATE NOTES

ALTERNATE 2 - OUTDOOR FURNITURE: UTILITY WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

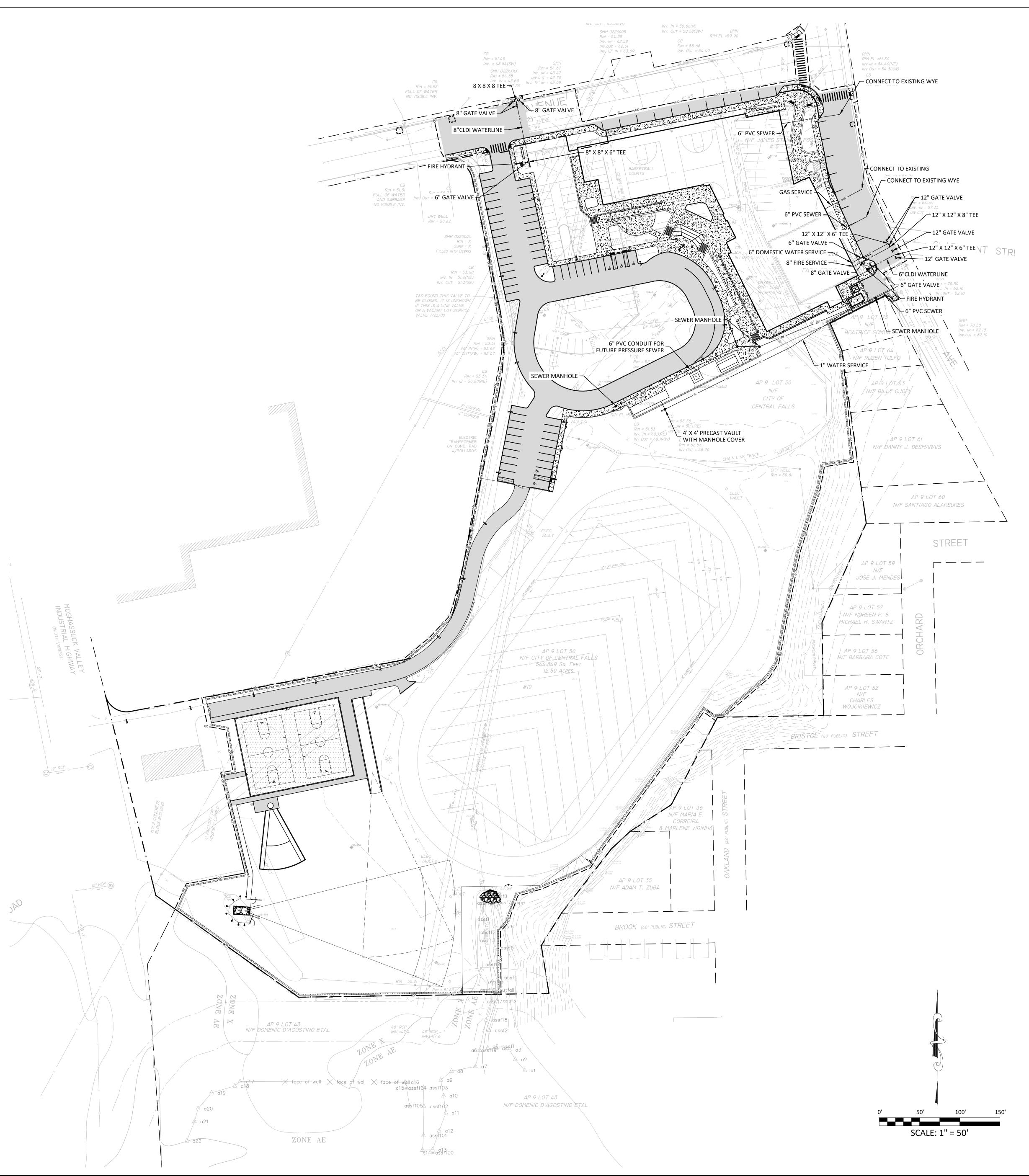
ALTERNATE 3 - OUTDOOR CLASSROOM: OUTDOOR CLASSROOM FEATURES ASSOCIATED WITH THE ALTERNATE ARE SHOWN AS BACKGROUND INFORMATION ON THIS SHEET. UTILITY WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.

ALTERNATE 5 - FREIGHT FARM UNIT: UTILITY WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

ALTERNATE 6 - THROWING EVENTS: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.

ALTERNATE 9 - SPORTS LIGHTING: ALL WORK SHOWN ON THE CIVIL DRAWING SHEETS ARE ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO THE ELECTRICAL DRAWINGS FOR INFORMATION REGARDING SITE ELECTRIC.

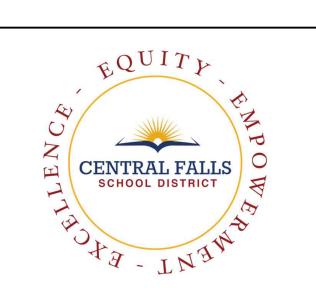
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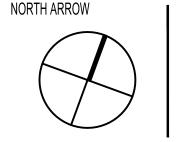


CENTRAL FALLS HIGH SCHOOL

10 HIGGINSON AVE, CENTRAL FALLS, RI

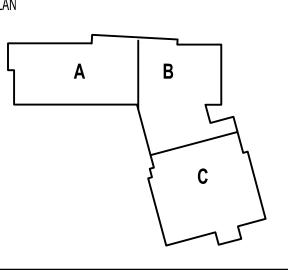
KEYNOTE LEGEND:

100% CONSTRUCTION DOCUMENTS



/EVDLAN

DRAWING NAME:



UTILITY PLAN

DRAWN BY:

REVIEWED BY:

SCALE: AS NOTED DRAWING NUMBER:

JOB NO.: 77997

DATE: OCTOBER 13, 2023

NOTE: . EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE DURATION OF CONSTRUCTION. AT A MINIMUM, PERIMETER HAY RELOCATED. SERVICE SHALL BE MAINTAINED TO EXISTING BUILDINGS TO REMAIN FOR THE DURATION OF CONSTRUCTION. MAINTAINED TO EXISTING BUILDINGS TO REMAIN FOR THE DURATION OF CONSTRUCTION. 5. ALL DRAIN LINES SHALL BE 12" UNLESS OTHERWISE NOTED. ALL DRAIN LINES SHALL BE HDPE UNLESS OTHERWISE NOTED. CATCH BASIN FRAMES AND GRATES SHALL CONFORM TO 201.6.0 UNLESS OTHERWISE NOTED. COLLARS SHALL BE PROVIDED AT ALL MANHOLES. THAN 24 INCHES IN DIAMETER SHALL BE TONGUE AND GROOVE OR BELL AND SPIGOT. ALL DRAINAGE PIPING SHALL BE GASKETED. SHALL BE LINED WITH AN IMPERVIOUS LINER.

- BALES, VEHICLE TRACKING CONTROL, INLET PROTECTION, AND TEMPORARY SEDIMENTATION BASINS SHOULD BE CONSIDERED. 2. ALL UTILITIES WITHIN THE FOOTPRINT OF PROPOSED BUILDING ADDITIONS SHOULD BE ANTICIPATED TO BE REMOVED AND
- 3. ALL EXISTING STRUCTURES TO REMAIN WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED TO FINISH GRADE. SERVICE SHALL BE
- 4. ALL PRECAST CONCRETE MANHOLES FOR DRAINAGE SHALL CONFORM TO THE ASTM "SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS," DESIGNATION D478. THE BARREL SHALL BE 4-FOOT WITH A 1-FOOT COLLAR TO PREVENT
- 6. ALL CATCH BASINS TO BE 4' DIAMETER (UNLESS OTHERWISE NOTED) SHALL CONFORM TO MHD STANDARD DETAIL 201.4.0 AND ALL
- 7. ALL MANHOLES TO BE 4' DIAMETER (UNLESS OTHERWISE NOTED) AND SHALL CONFORM TO MHD STANDARD DETAIL 202.4.0 AND ALL MANHOLE FRAMES AND COVERS SHALL CONFORM TO 202.6.0 UNLESS OTHERWISE NOTED. CONCRETE ANTI-FLOTATION
- 8. REINFORCED CONCRETE PIPE AND FLARED ENDS SHALL CONFORM TO THE AASHTO M170 FOR STANDARD STRENGTH REINFORCED CONCRETE CULVERT PIPE FOR CLASS III PIPE, WALL B. OR ASTM C76 FOR REINFORCED CONCRETE CULVERT AND STORM DRAIN PIPE UNLESS NOTED OTHERWISE. ALL PIPE 24 INCHES IN DIAMETER OR SMALLER SHALL BE OF THE BELL AND SPIGOT TYPE. PIPES LARGER
- 9. CONCRETE VAULT DETENTION SYSTEMS SHALL INCLUDE AN 8" EXTENDED CONCRETE SLAB WITH UNITS ANCHORED INTO SLAB, AND
- 10. HIGH-DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL BE ADS N-12 IB ST SMOOTH INTERIOR PIPE, ADS N-12 IB ST HIGH CAPACITY LARGE DIAMETER PIPE OR APPROVED EQUIVALENT. JOINTS SHALL BE SOIL-TIGHT AND INCLUDE A RUBBER GASKET ON THE SPIGOT END OF THE PIPE. WHEN INSTALLED INTO THE BELL END, THE JOINT SHALL BE SEALED.
- 11. MANHOLES OVER 12 FEET IN DEPTH SHALL HAVE MINIMUM OF 5 FEET INSIDE DIAMETER. ALL MANHOLES SHALL HAVE A SUMP OF AT LEAST 30 INCHES BELOW INVERT OF OUTLET PIPE. RISERS SHALL BE CLAY OR SHALE BRICK, AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 91, GRADE MM OR AS SPECIFIED IN MASSDOT M4.05.
- 12. ALL CATCH BASINS SHALL HAVE A SUMP OF AT LEAST 48 INCHES (4 FEET) BELOW THE INVERT OF THE OUTLET PIPE, OR OTHERWISE APPROVED BY THE TOWN, AND AN INSIDE DIAMETER OF 4 FEET MINIMUM.
- 13. LIVE LOAD DESIGN FOR CATCH BASINS SHALL BE HS-25 LOADING. CATCH BASINS WHICH ARE LIMITED BY HEIGHT SHALL BE INSTALLED WITH A FLAT TOP SLAB, CAST IN PLACE, DESIGNED FOR HS-25 LOADING AND CAST IRON FRAME CAST IN PLACE.
- 14. MANHOLE FRAMES AND COVERS SHALL BE AT LEAST CLASS 25 CONFORMING TO ASTM A48 "STANDARD SPECIFICATION FOR GRAY IRON CASTINGS".
- 15. CATCH BASIN HOODS SHALL BE USED TO MINIMIZE THE ENTRY OF OIL, GASOLINE, AND DEBRIS INTO DRAINAGE PIPES.
- 16. WHERE PROPOSED DRAIN LINES CROSS SANITARY OR WATER LINES WITH LESS THAN 1.5' CLEARANCE, ENCASE BOTH UTILITIES IN FLOWABLE FILL FOR A DISTANCE OF 10' ON EITHER SIDE OF CROSSING. CENTER PIPE LENGTH AT CROSSING. REFER TO CROSSING DETAIL ON SHEET C5.2 ON DETAIL SHEETS.

BID ALTERNATE NOTES:

ALTERNATE 2 - OUTDOOR FURNITURE: DRAINAGE WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.

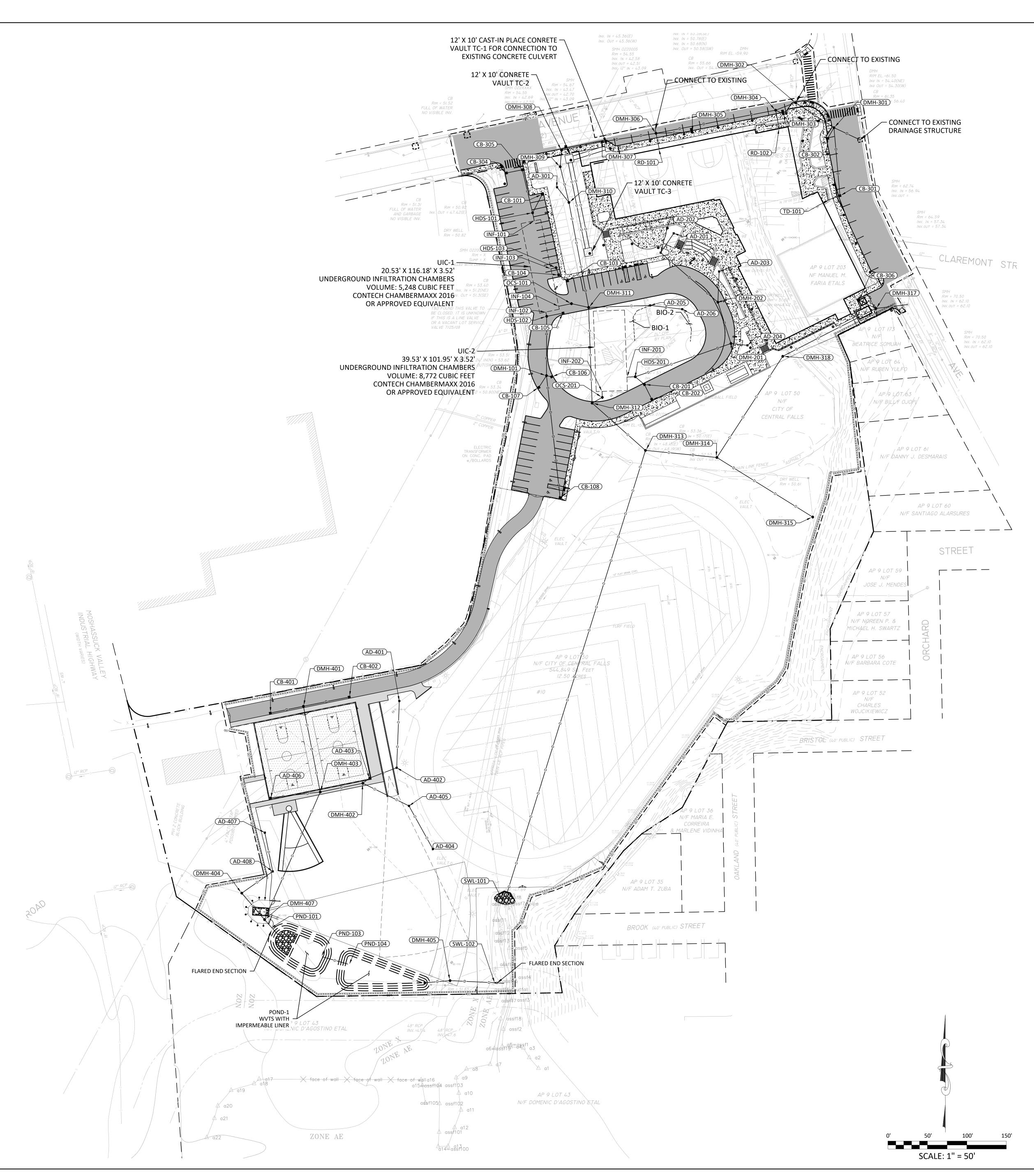
ALTERNATE 3 - OUTDOOR CLASSROOM: OUTDOOR CLASSROOM FEATURES ASSOCIATED WITH THE ALTERNATE ARE SHOWN AS BACKGROUND INFORMATION ON THIS SHEET. DRAINAGE WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.

ALTERNATE 5 - FREIGHT FARM UNIT: DRAINAGE WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND

ALTERNATE 6 - THROWING EVENTS: DEMOLITION WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE.

ALTERNATE 9 - SPORTS LIGHTING: ALL WORK SHOWN ON THE CIVIL DRAWING SHEETS ARE ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO THE ELECTRICAL DRAWINGS FOR INFORMATION REGARDING SITE ELECTRIC.

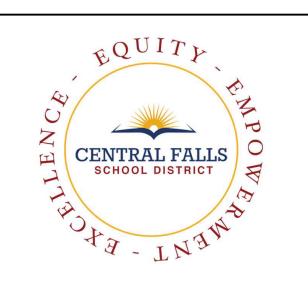
ALTERNATE 10 - TREES: DRAINAGE WORK SHOWN ON THIS SHEET IS ANTICIPATED TO BE CONSISTENT WITH BOTH THE BASE BID AND ALTERNATE. REFER TO LANDSCAPE DRAWINGS FOR INFORMATION REGARDING THE BASE BID AND ALTERNATE.







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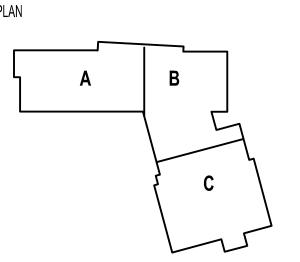


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DRAWING NAME:



DRAINAGE PLAN

DRAWN BY: REVIEWED BY: SCALE:

AS NOTED | DRAWING NUMBER: JOB NO.: DATE: OCTOBER 13, 2023

	Struc	ture Table	
Structure Name	RIM	INVERT IN	INVERT OUT
AD-201	59.39		12" SW 52.90
AD-202	59.16	12" NE 52.75	12" SE 52.75
AD-203	58.98		12" S 52.66
AD-204	58.66		12" W 52.11
AD-205	55.00	12" E 50.89	12" W 50.89
AD-206	55.00		12" W 51.09
AD-301	52.99		8" SE 51.25
AD-401	55.10		12" S 52.89
AD-402	55.08	12" N 52.46	12" W 52.46
AD-403	55.28	12" E 52.28	12" SW 52.28
AD-404	55.07		12" NW 52.86
AD-405	55.06	12" SE 52.55	12" NW 52.55
AD-406	55.14		12" E 52.27
AD-407	55.02		12" S 51.78
AD-408	55.01	12" N 51.53	12" SW 51.53
CB-101	54.13		12" SW 51.17
CB-103	56.72		12" NW 51.50
CB-104	56.13	12" SE 51.36	12" N 51.26
CB-105	55.96		12" W 51.13
CB-106	54.69		12" W 51.40
CB-107	54.53		12" NE 51.51
CB-108	55.83		12" N 51.95
CB-201	55.68	12" SE 51.23	12" NW 51.23
CB-202	55.68		12" NW 51.33
CB-301	63.03	12" W 54.41	12" N 54.41
CB-302	62.17		12" NE 53.70
CB-303	53.57		12" SW 51.35

	Stru	cture Table	
Structure Name	RIM	INVERT IN	INVERT OUT
CB-304	53.12		8" E 51.37
CB-305	53.12	8" W 51.26	8" S 51.27
CB-306	63.67		12" SE 60.21
CB-401	54.27		12" E 52.72
CB-402	55.05		12" W 52.80
DMH-101	54.81	12" S 51.33 12" SW 51.33 12" E 51.33	12" N 51.33
DMH-201	57.69	12" E 51.90 12" N 51.90	12" W 51.79
DMH-202	58.08	12" N 52.27 12" NW 52.27	12" S 52.17
DMH-301	61.94	12" SW 53.54 12" S 53.54 12" SE 53.54	12" NW 53.5
DMH-302	61.56	12" SE 52.96 18" N 52.96 12" NE 52.96	18" W 52.90
DMH-303	60.67		12" NW 52.8
DMH-304	59.91	18" E 52.69 12" S 55.40 12" SE 52.69	18" W 52.6
DMH-305	57.35		12" W 53.4
DMH-306	55.68	18" N 51.92 12" S 51.92 12" E 52.55 18" E 51.92	18" W 51.9
DMH-307	55.97	18" E 51.57	18" W 51.5
DMH-308	53.92	12" NE 51.31 18" E 51.31	18" S 51.31
DMH-309	54.09	18" N 51.22	18" S 51.22
DMH-310	55.31	8" NW 51.00 18" N 51.00	18" S 51.01
DMH-311	56.64	18" N 50.40 12" E 50.50 12" W 51.55	18" S 50.40
DMH-312	55.59	12" NE 51.70 18" N 49.85	18" SE 49.8
DMH-313	54.00	18" NW 49.44 24" E 49.59	24" S 49.44
DMH-314	54.12	12" SE 50.50 24" NE 50.50	24" W 50.5
DMH-315	54.85		12" NW 51.2
DMH-317	64.92	30" E 59.97 12" NW 59.97	24" SW 53.3
DMH-318	58.93	24" NE 52.03	24" SW 52.0
DMH-401	55.08	12" W 52.50 12" E 52.50	12" S 52.50
DMH-402	55.34	12" NE 52.22 12" SE 52.22	12" W 52.2

	Struc	ture Table	
Structure Name	RIM	INVERT IN	INVERT OUT
DMH-403	55.45	12" N 51.95 12" W 51.95 12" E 51.95	12" SW 51.95
DMH-404	55.09	12" NE 51.29	12" SE 51.29
DMH-405	55.80	12" W 51.92	12" E 50.00
DMH-406	53.55		12" E 52.00
DMH-407	55.00	12" NE 51.07 12" NW 51.07	12" SE 51.07
HDS-101	54.70	8" N 51.04 12" NE 51.04	12" S 51.04
HDS-102	55.93	12" E 51.03 12" S 51.03	12" N 51.03
HDS-103	56.11	12" S 51.17	12" W 51.07
HDS-201	56.40	12" E 51.15 12" SE 51.15	12" W 51.05
INF-101		12" N 51.00	
INF-102		12" S 51.00	
INF-103		12" E 51.00	
INF-104			12" E 52.00
INF-201		12" E 51.00	
INF-202			12" S 52.00
OCS-101	56.37	12" W 52.00	12" E 52.00
OCS-201	55.57	12" N 52.00	12" SW 52.00
PND-101		12" NW 51.00	
PND-103			12" E 51.00
PND-104		12" W 51.00	
RD-101			12" N 52.12
RD-102			12" N 55.88
SWL-101		24" N 47.94	
SWL-102		12" W 48.50	
TD-101			12" E 54.71

DRAINAGE STRUCTURE TABLE

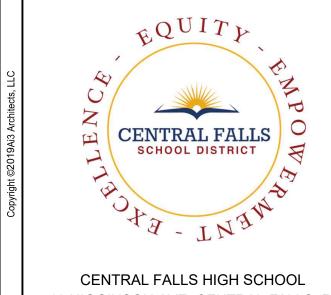
Pipe Table										
Starting Structure	Ending Structure	Size	Length	Slope						
HDS-102	INF-102	12	5.58	0.50%						
CB-105	HDS-102	12	21.20	0.50%						
AD-204	DMH-201	12	21.05	1.00%						
CB-306	DMH-317	12	24.13	1.00%						
	DMH-317	30	40.82	1.20%						
DMH-317	DMH-318	24	132.76	1.00%						
DMH-301	DMH-302	12	58.17	1.00%						
CB-302	DMH-301	12	15.72	1.00%						
CB-301	DMH-301	12	86.59	1.00%						
TD-101	CB-301	12	15.39	2.00%						
DMH-302	DMH-304	18	1.00%							
RD-102	DMH-304	12	23.80	2.00%						
INF-104	OCS-101	12	16.50	0.00%						
CB-103	CB-104	12	13.52	1.00%						
CB-304	CB-305	8	20.50	0.50%						
DMH-306	DMH-307	18	69.08	0.50%						
	DMH-306	18	4.54	0.81%						
RD-101	DMH-306	12	20.21	1.00%						
DMH-305	DMH-306	12	45.83	2.00%						
DMH-303	DMH-304	12	10.86	1.00%						
DMH-304	DMH-306	18	154.40	0.50%						
	DMH-301	12	36.63	1.00%						
	DMH-302	18	52.33	1.00%						

		Pipe Table			
:	Starting Structure	Ending Structure	Size	Length	Slope
,		DMH-302	12	61.14	1.00%
,	CB-104	HDS-103	12	9.72	1.00%
	HDS-103	INF-103	12	6.71	1.00%
	DMH-202	DMH-201	12	54.85	0.50%
	AD-203	DMH-202	12	38.96	1.00%
	OCS-201	DMH-312	12	14.78	2.00%
	DMH-309	DMH-310	18	46.69	0.45%
	DMH-308	DMH-309	18	20.79	0.45%
	DMH-307	DMH-308	18	52.57	0.50%
,	DMH-313	SWL-101	24	601.03	0.25%
	DMH-312	DMH-313	18	90.33	0.45%
,)	DMH-314	DMH-313	24	90.97	1.00%
,)	DMH-315	DMH-314	12	142.98	0.50%
	DMH-318	DMH-314	24	152.96	1.00%
,)	AD-401	AD-402	12	84.75	0.50%
,)	AD-402	AD-403	12	36.82	0.50%
, D	AD-403	DMH-402	12	10.71	0.50%
0	AD-404	AD-405	12	62.65	0.50%
,	AD-405	DMH-402	12	65.06	0.50%
	DMH-401	DMH-403	12	110.72	0.50%
,	CB-202	CB-201	12	20.94	0.50%
·	CB-201	HDS-201	12	15.23	0.50%
)	AD-407	AD-408	12	50.23	0.50%
	AD-408	DMH-404	12	47.88	0.50%
	PND-103	PND-104	12	36.58	0.00%
	DMH-405	SWL-102	12	56.72	2.64%
	OCS-101	DMH-311	12	22.30	2.00%
	DMH-311	DMH-312	18	121.34	0.45%

DRAINAGE PIPE TABLE

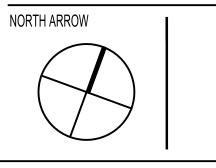
Pipe Table									
Starting Structure	Ending Structure	Size	Length	Slop					
DMH-310	DMH-311	18	135.36	0.45					
HDS-101	INF-101	12	10.32	0.40					
CB-305	HDS-101	8	56.10	0.40					
CB-101	HDS-101	12	26.34	0.50					
AD-206	AD-205	12	40.81	0.50					
AD-205	DMH-311	12	78.03	0.50					
AD-201	AD-202	12	29.45	0.50					
AD-202	DMH-202	12	95.96	0.50					
DMH-201	HDS-201	12	128.40	0.50					
INF-202	OCS-201	12	7.62	0.00					
HDS-201	INF-201	12	10.58	0.50					
DMH-403	DMH-407	12	176.49	0.50					
DMH-407	PND-101	12	13.36	0.50					
DMH-404	DMH-407	12	44.41	0.50%					
AD-406	DMH-403	12	63.21						
DMH-402	DMH-403	12	55.10	0.50					
CB-401	DMH-401	12	42.86	0.50					
CB-402	DMH-401	12	59.24	0.50					
CB-303	DMH-308	12	7.25	0.50					
CB-108	DMH-101	12	155.53	0.40					
DMH-101	HDS-102	12	75.15	0.40					
CB-107	DMH-101	12	17.72	1.00					
CB-106	DMH-101	12	6.64	1.00					
AD-301	DMH-310	8	24.42	1.00					
DMH-406	DMH-405	12	32.01	0.25					





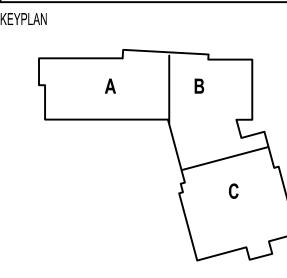
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DRAINAGE PLAN: DRAINAGE STRUCTURE AND PIPE TABLES

DRAWN BY: SMC

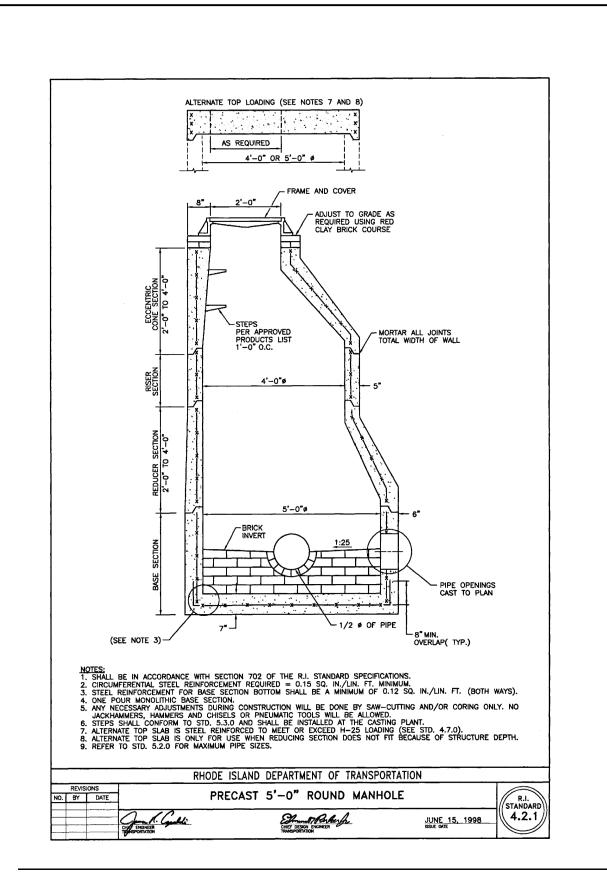
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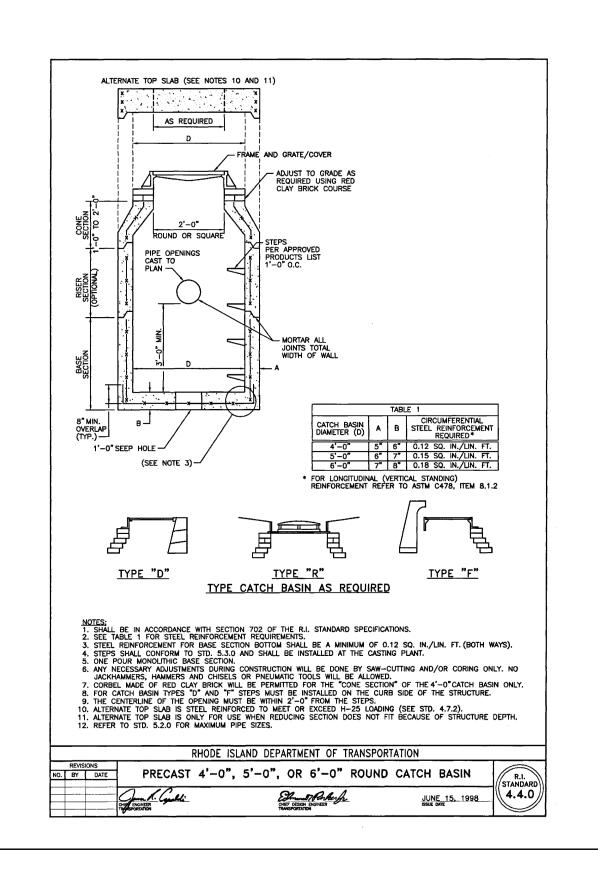
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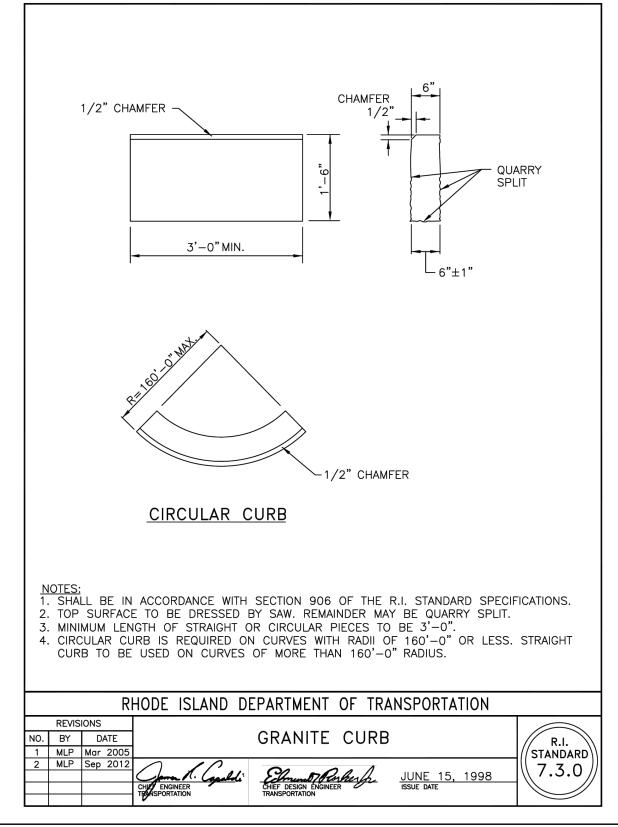
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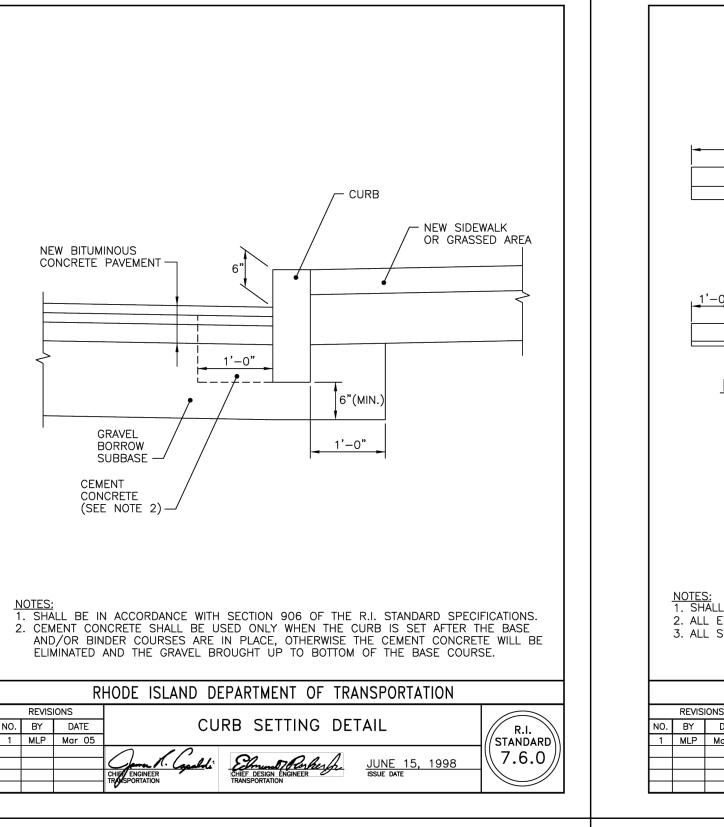
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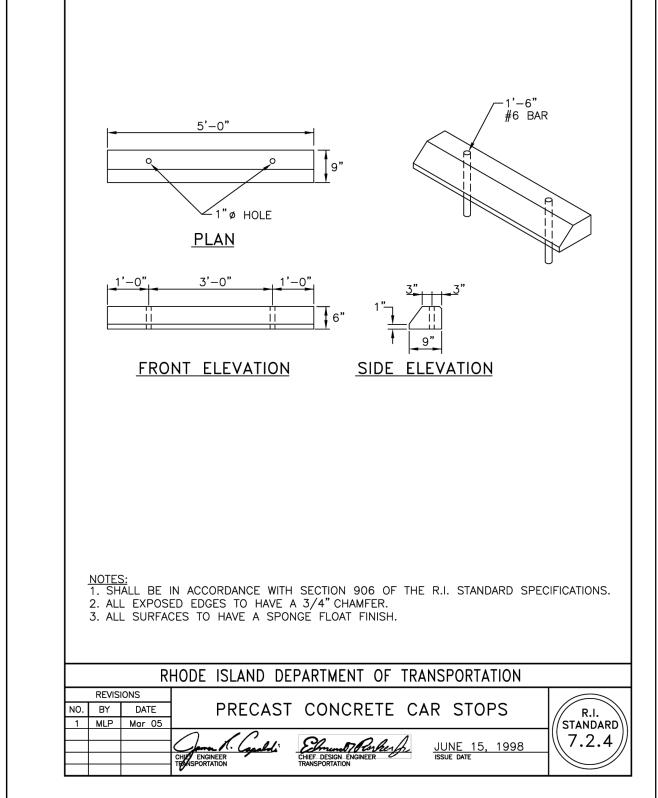
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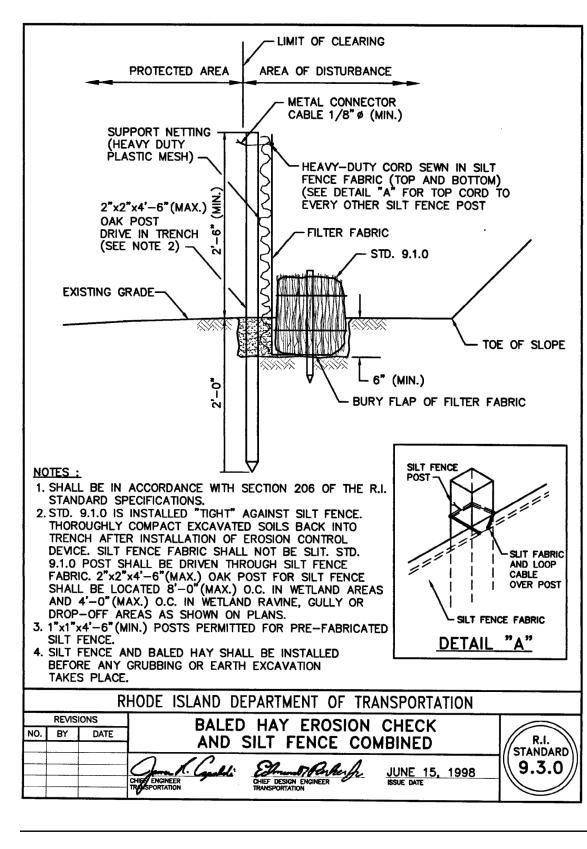


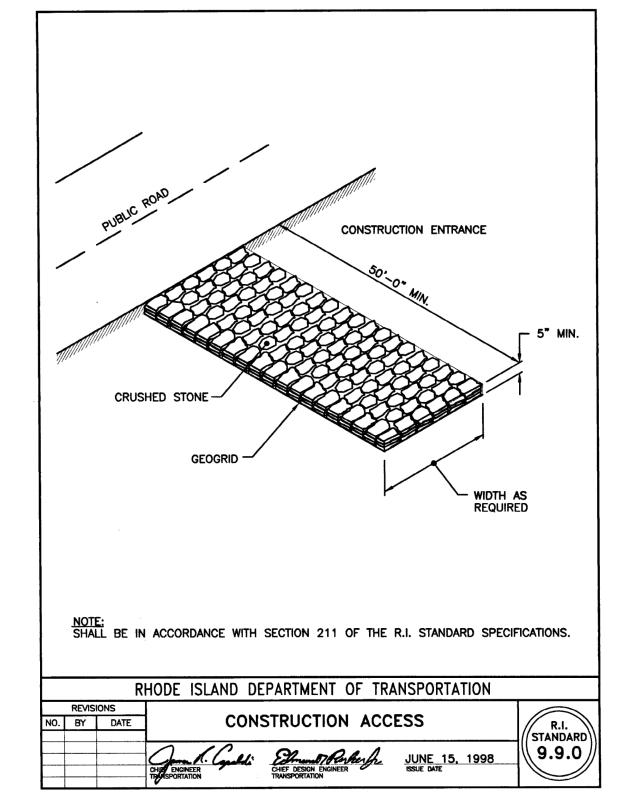


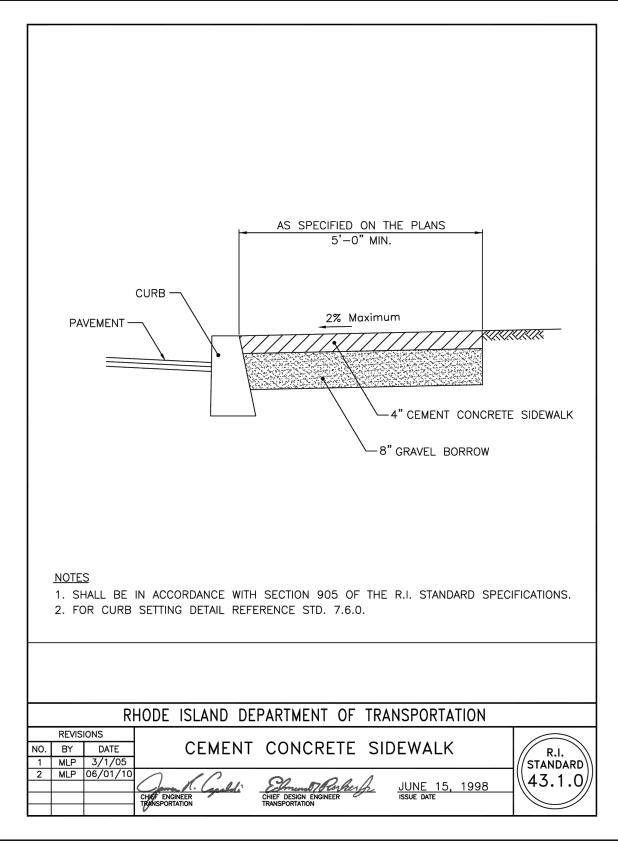


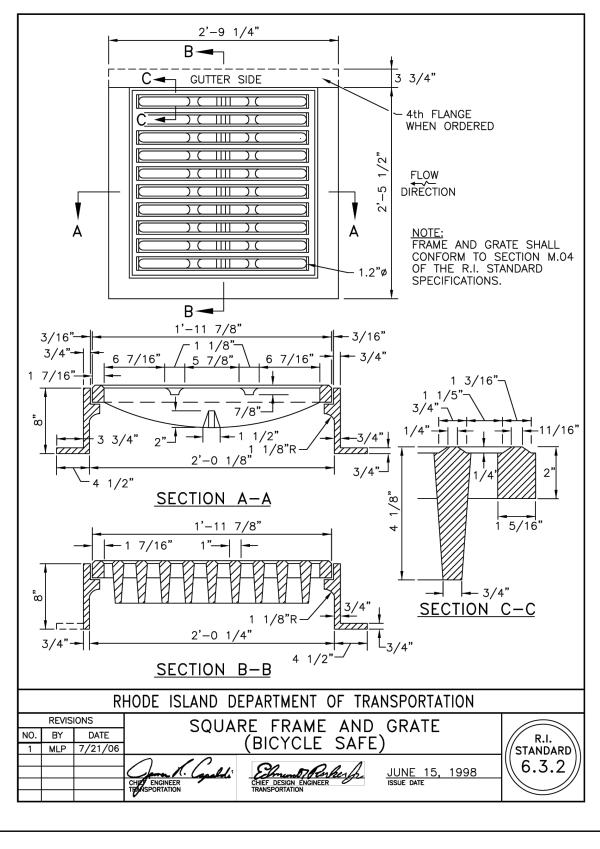


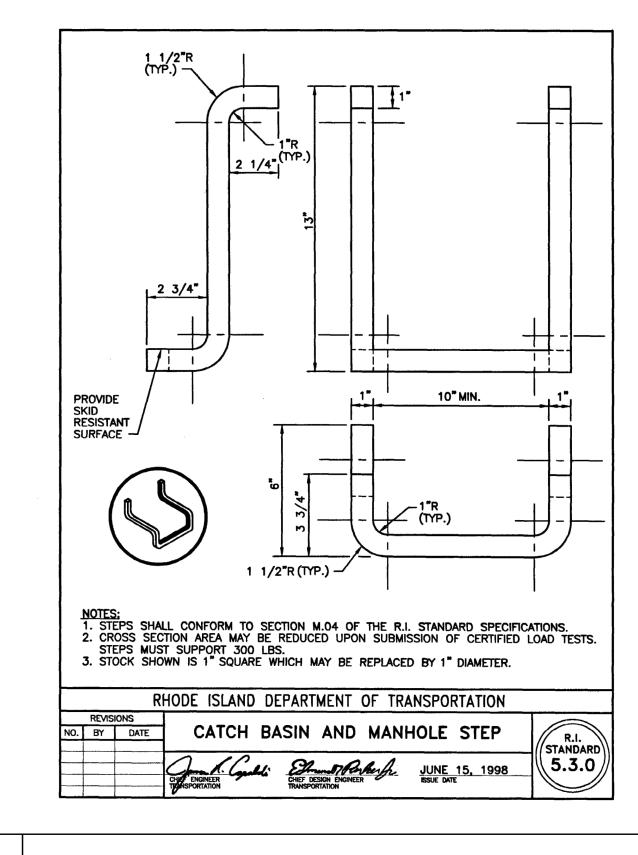


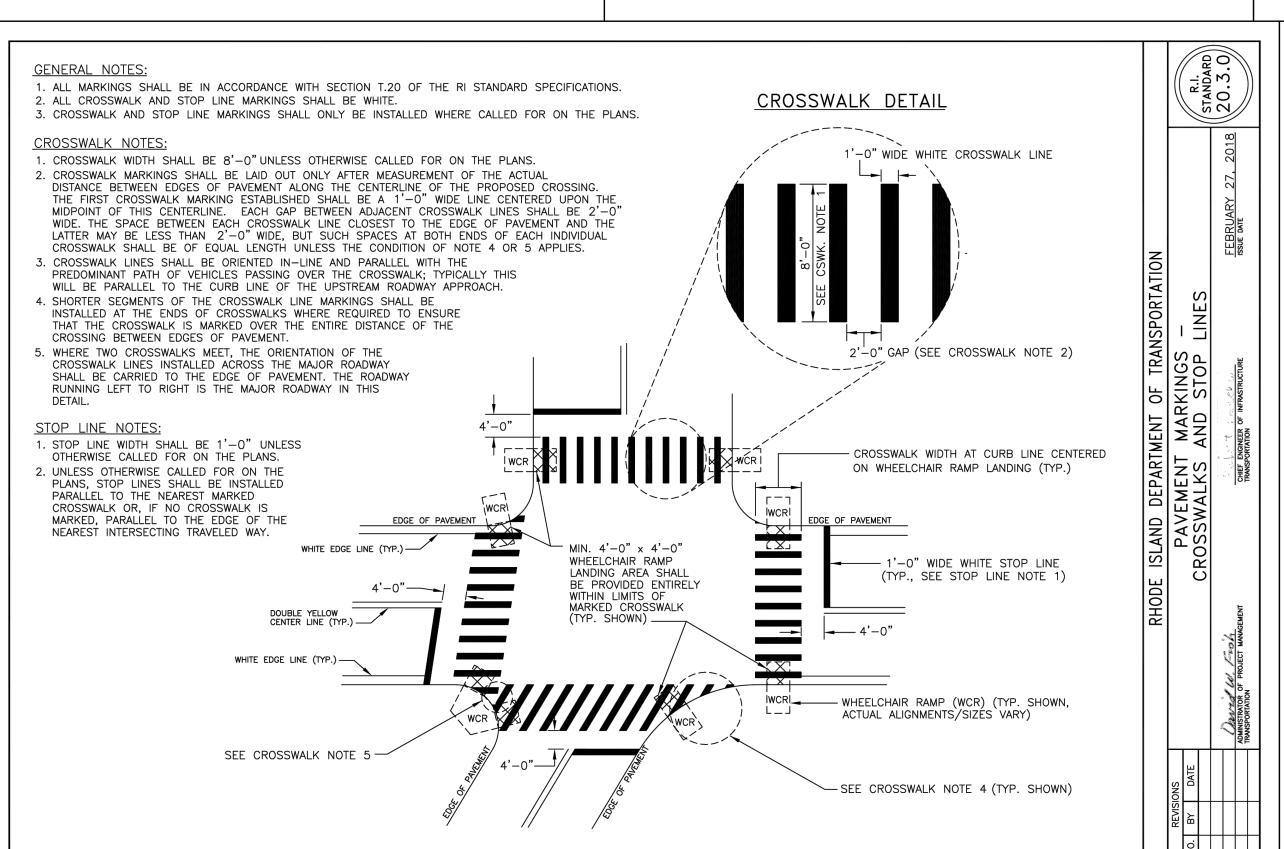


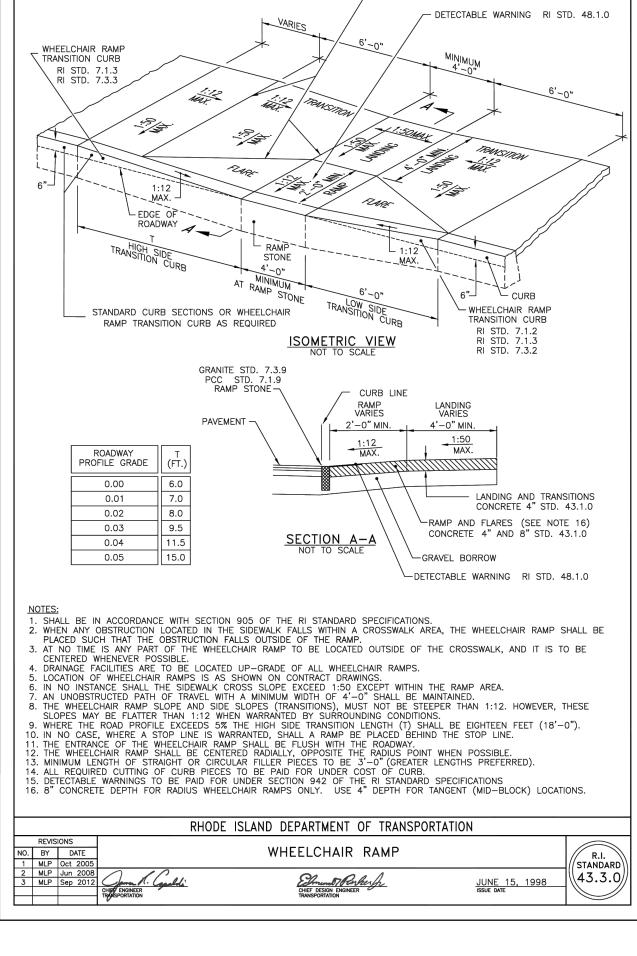


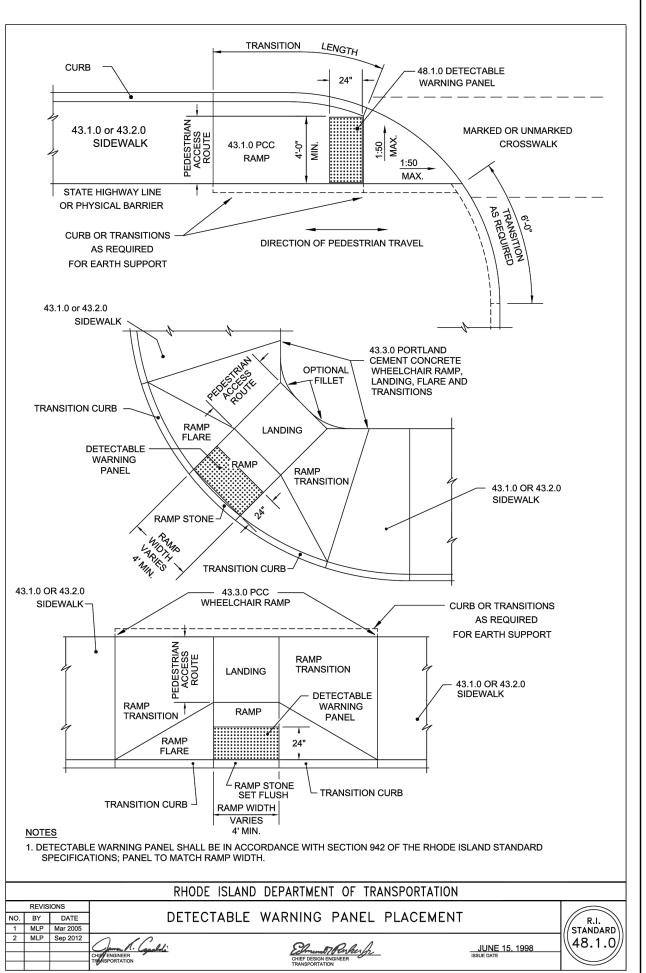


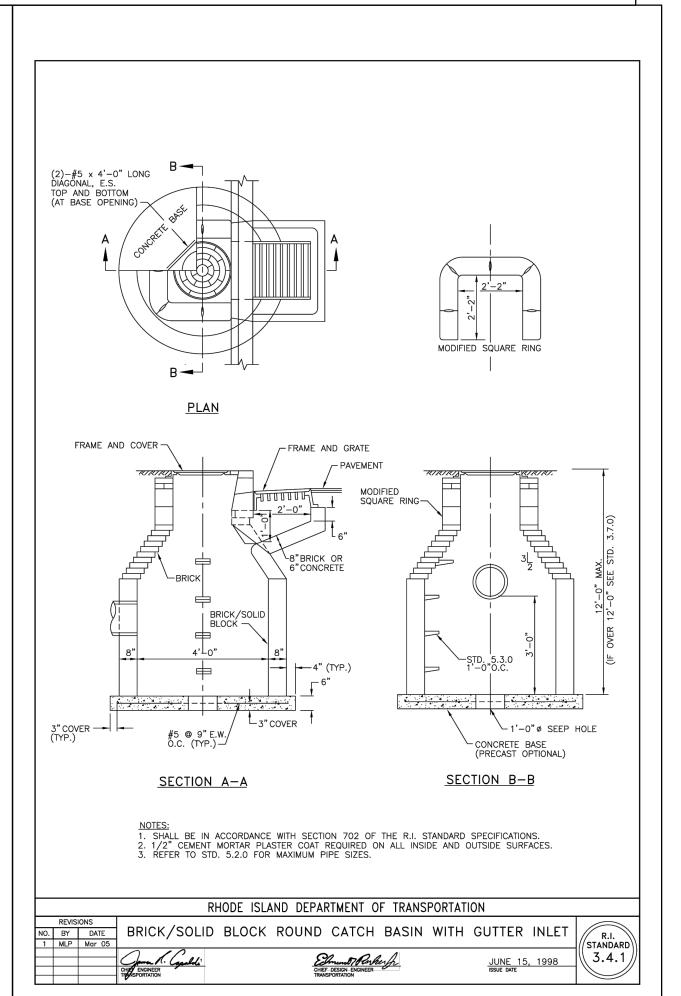








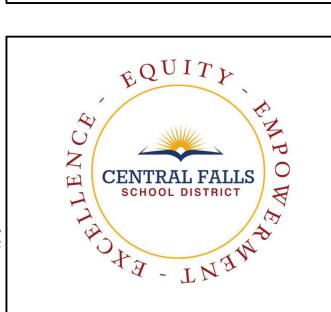






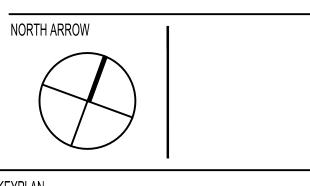
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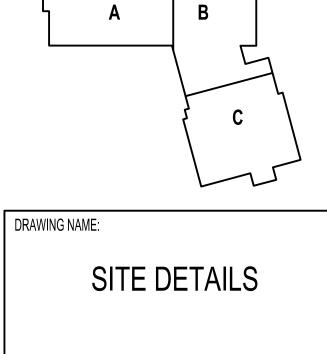
The Vertex Companies, LLC 400 Libbey Parkway Weymouth, MA 02189 **PHONE** 781.952.6000 www.vertexeng.com



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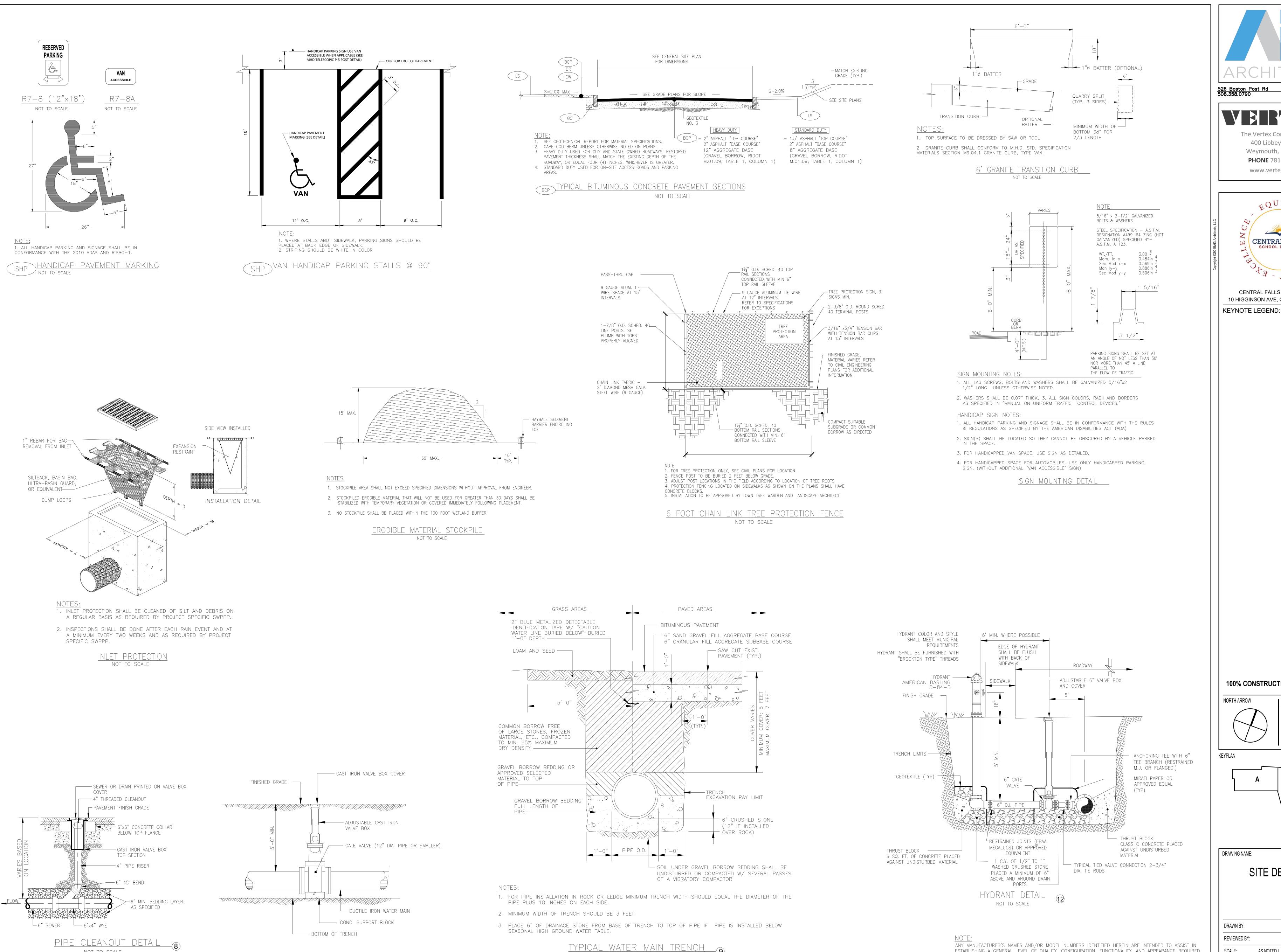
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ANY MANUFACTURER'S NAMES AND/OR MODEL NUMBERS IDENTIFIED HEREIN ARE INTENDED TO ASSIST IN ESTABLISHING A GENERAL LEVEL OF QUALITY, CONFIGURATION, FUNCTIONALITY, AND APPEARANCE REQUIRED. THIS IS NOT A PROPRIETARY SPECIFICATION AND IT SHOULD BE NOTED THAT "OR APPROVED EQUIVALENT" APPLIES TO ALL PRODUCTS DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURERS WILL HAVE MINOR VARIATIONS IN CONFIGURATION, APPEARANCE, AND PRODUCT SPECIFICATION TO ENCOURAGE OPEN AND COMPETITIVE INVOLVEMENT FROM MULTIPLE MANUFACTURERS THAT ARE ABLE TO SUPPLY SIMILAR PRODUCTS.



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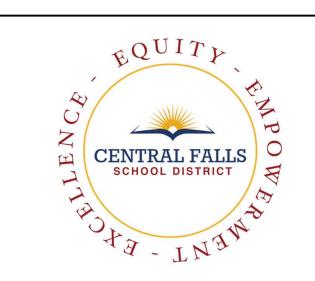
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VALVE BOX

NOT TO SCALE

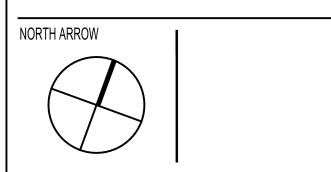
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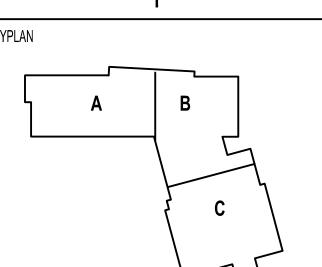
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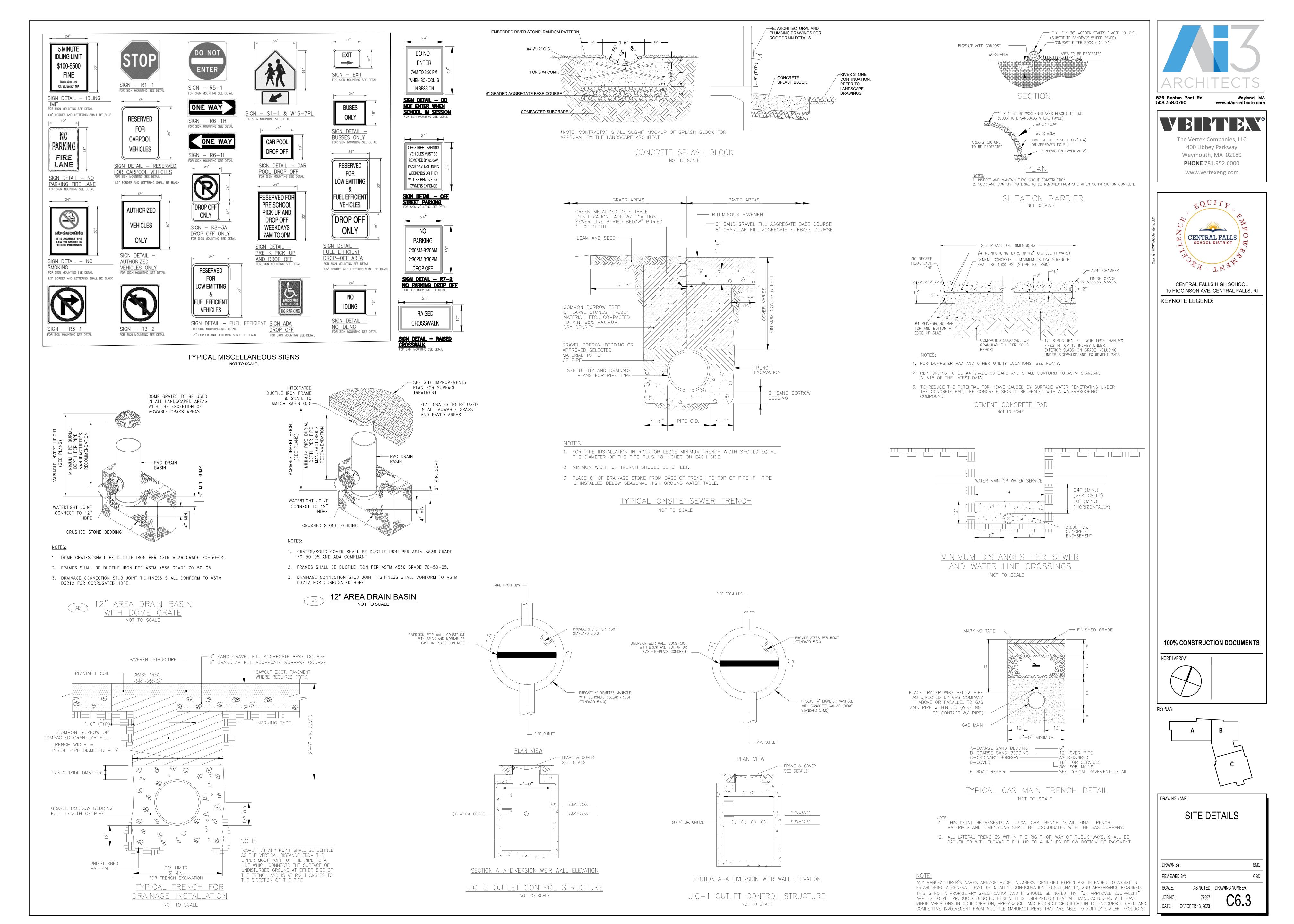
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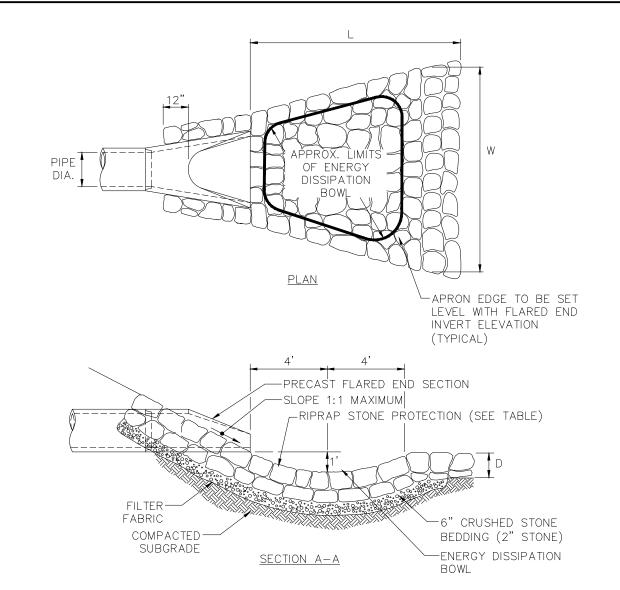
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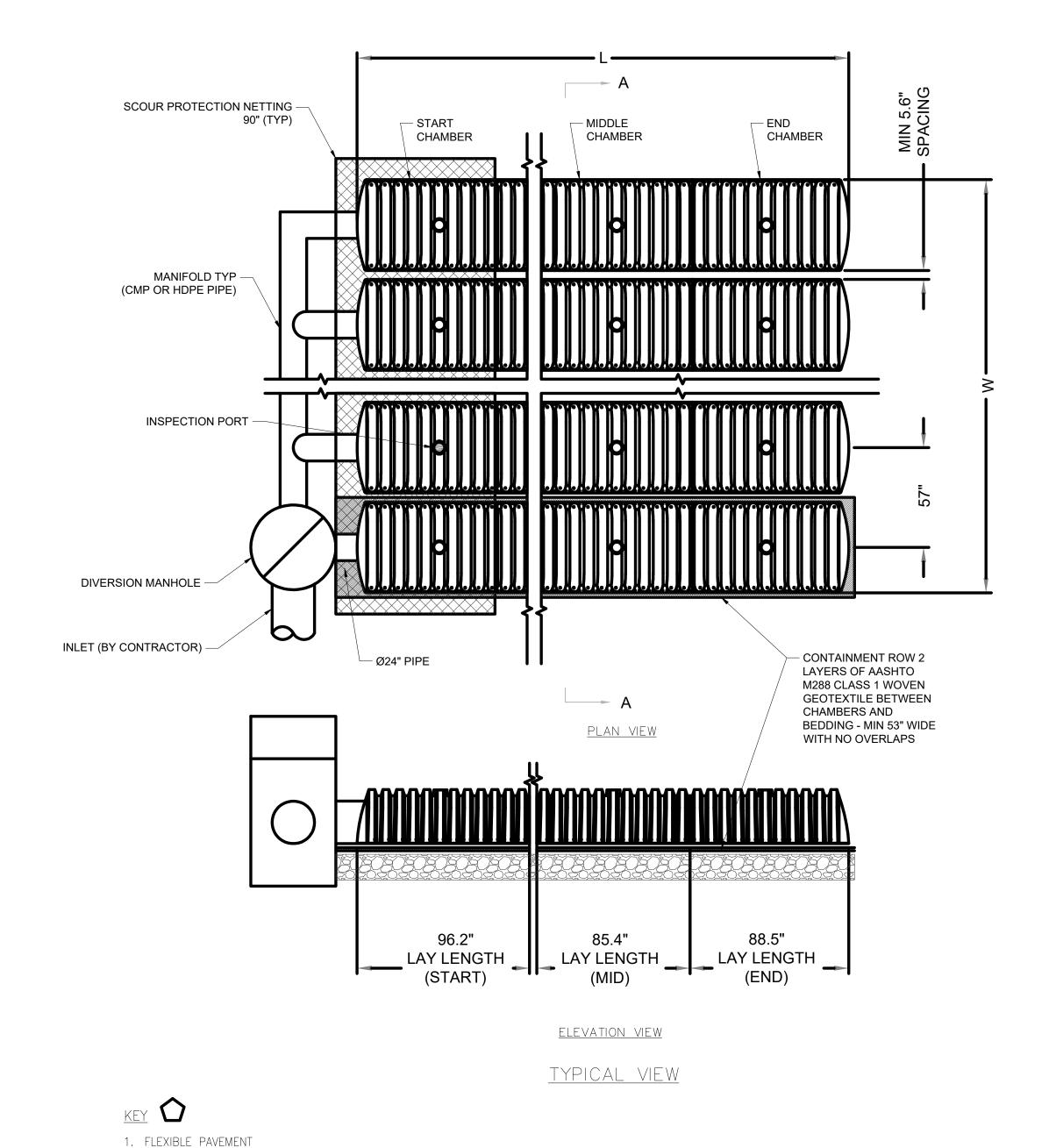
APPLIES TO ALL PRODUCTS DENOTED HEREIN. IT IS UNDERSTOOD THAT ALL MANUFACTURERS WILL HAVE

COMPETITIVE INVOLVEMENT FROM MULTIPLE MANUFACTURERS THAT ARE ABLE TO SUPPLY SIMILAR PRODUCTS.





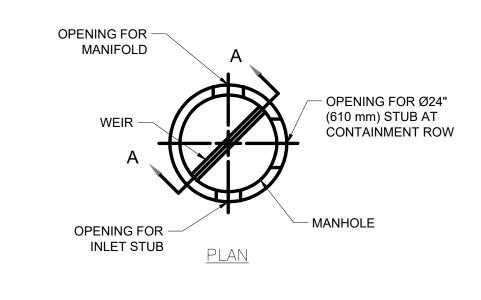
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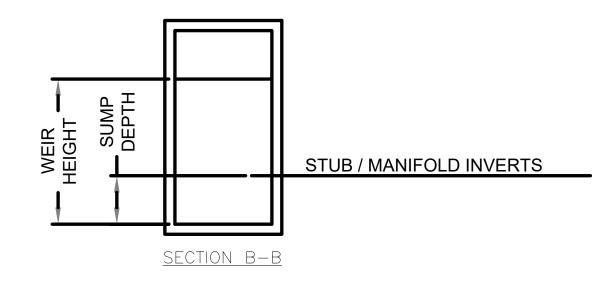


2. GRANULAR ROAD BASE

<u>GENERAL NOTES</u>

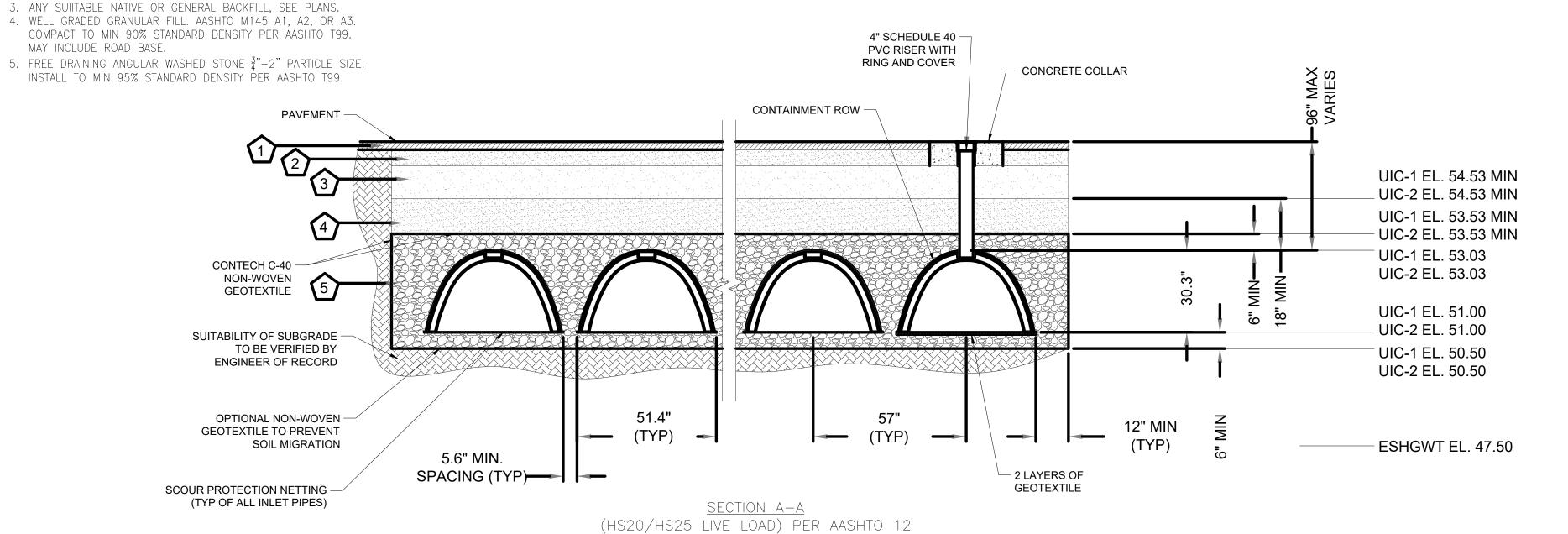
- 1. CONTECH CHAMBERMAXX OR APPROVED EQUAL.
- 2. ACCESS COVERS TO MEET AASHTO HS20/HS25 LIVE LOADING.
- 3. MINIMUM COVER IS 18 INCHES AND MAXIMUM COVER IS 96 INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.
- INSTALLATION NOTES
- 1. PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION. A GEOGRID SHALL BE UTILIZED OR UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER. ONCE THE FOUNDATION PREPARATION IS COMPLETE THE BEDDING MATERIAL CAN BE
- 2. THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
- 3. COVER ANY OPEN VOID SPACES GREATER THAN $\frac{3}{4}$ " ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
- 4. STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH TO 8-INCH LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 90% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
- 5. GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH



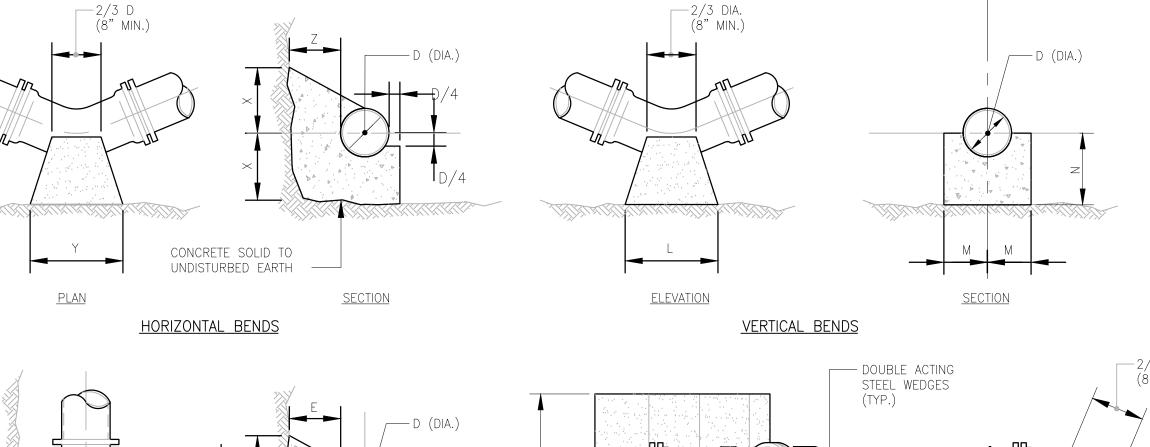


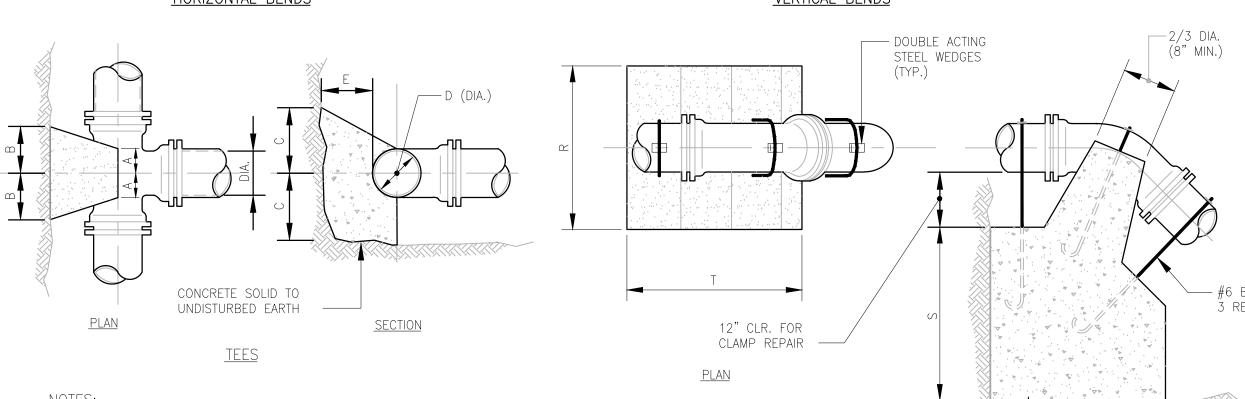
DIVERSION MANHOLE DETAIL

NOT TO SCALE



UNDERGROUND INFILTRATION CHAMBER DETAIL NOT TO SCALE





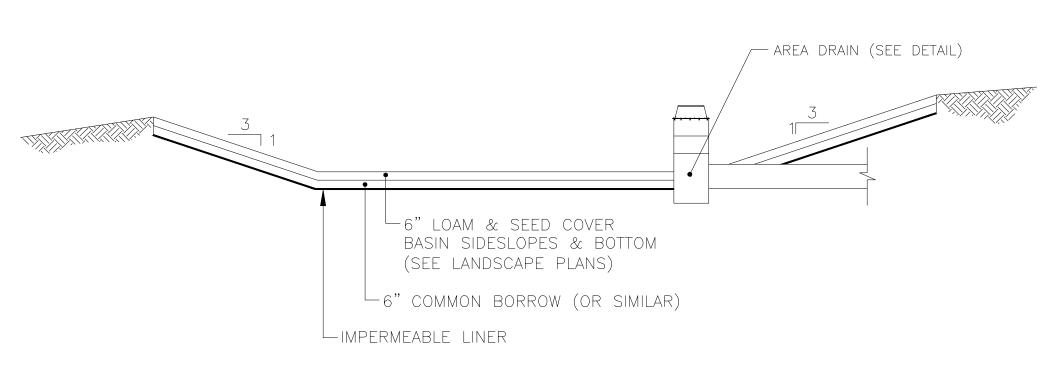
1. ALL CONCRETE SHALL BE CL. B (AE) CONCRETE AND COMPLY WITH SECTION M4.12.00 OF THE STANDARD SPECIFICATIONS.

2. CONCRETE THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED EARTH. IN AREAS WHERE BEARINGS SOILS HAVE BEEN DISTURBED, RESTRAINED JOINTS SHALL BE USED.

CONCRETE SOLID TO UNDISTURBED EARTH	
	ELEVATION
CONC. ANCHORAGE	

		TEES						HORIZO	DNTAL	BENDS					VERT	ICAL E	BENDS			ANCHORAGES					
	PIPE SIZE-D (DIA.))		NID	PIPE SIZE-D (DIA.)				DEVID		PIPE SIZE-D (DIA.)			DENI		PIPE SIZE-D (DIA.)							
	6"	8"	12"	16"	20"	BE	ND	6"	8"	12"	16" 20	"	BEN	עו	6"	8"	12"	16"	20"	BENI	6"	8"	12"	16"	20"
А	8"	10"	1'-0"	1'-3"	1'-6"		Х	1'-0"	1'-0"	1'-0" 1'	'-3" 1'-	6"		L	1'-3"	1'-8"	2'-6"	3'-6"	4'-8"		R 2'-6'	3'-0"	4'-6"	5'-4"	6'-0"
В	8"	10"	1'-2"	1'-4"	1'-6"	1/8	Υ	1'-0"	1'-6"	2'-0" 2	'-6" 3'-	0"	1/8	М	7"	8"	11"	1'-4"	1'-6"	1/8	S 2'-6'	2'-9"	3'-6"	2'-6"	5'-6"
С	10"	1'-0"	1'-3"	1'-6"	1'-8"		Z	8"	10"	1'-2" 1'	'-4" 1'-	6"		N	7"	8"	11"	1'-4"	1'-6"		T 3'-0'	4'-0"	4'-9"	7'-0"	9'-6"
Е	8"	10"	1'-2"	1'-6"	1'-10"		Х	1'-0"	1'-0"	1'-0" 1'	'-3" 1'-	6"		L	9"	1'-0"	1'-9"	2'-6"	3'-0"		R 2'-0'	2'-8"	4'-0"	4'-6"	5'-0"
						1/16	Υ	1'-0"	1'-4"	1'-6" 1'	'-9" 2'-	6"	1/16	М	7"	7"	10"	1'-0"	1'-2"	1/16	S 1'-9'	2'-3"	2'-6"	3'-2"	3'-8"
							Z	8"	10"	1'-2" 1'	'-4" 1'-	6"		N	7"	7"	8"	10"	1'-0"		T 2'-6'	3'-4"	4'-0"	6'-0"	8'-6"
							Х	1'-0"	1'-0"	1'-0" 1'	'-2" 1'-	4"		L	6"	8"	1'-0"	1'-4"	1'-9"		R 1'-6'	2'-0"	3'-0"	3'-8"	4'-3"
						1/32	Υ	1'-0"	1'-0"	1'-2" 1'	'-4" 1'-	6"	1/32	М	7"	7"	10"	1'-0"	1'-2"	1/32	S 1'-3'	1'-9"	2'-0"	2'-4"	2'-6"
							Z	8"	10"	1'-2" 1'	'-4" 1'-	6"		N	7"	7"	8"	10"	1'-0"		T 2'-0'	2'-6"	3'-0"	4'-6"	5'-9"

NOT TO SCALE



IMPERMEABLE LINER SHALL MEET THE FOLLOWING SPECIFICATIONS (PER RHODE ISLAND STORMWATER DESIGN AND INSTALLATION STANDARDS MANUAL):

- 1. ASTM D 751 (THICKNESS)
- 2. ASTM D 412 (TENSILE STRENGTH 1, 100 LB, ELONGATION 200% 3. ASTM D 624 (TEAR RESISTANCE - 150 LB/IN)
- 4. ASTM D 471 (WATER ADSORPTION: +8 TO -2% MASS) 30 MIL THICKNESS
- 6. LINER TO BE ULTRAVIOLET RESISTANT. A GEOTEXTILE FABRIC SHOULD BE USED TO PROTECT THE LINER FROM PUNCTURE.

OPEN CHANNEL WITH IMPERMEABLE LINER SECTION

SCALE: N.T.S.

A MINIMUM SEPERATION DISTANCE OF 5 FEET SHALL BE MAINTAINED BETWEEN THE BOTTOM OF THE BASIN AND BEDROCK

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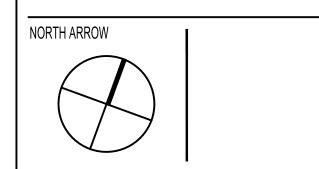


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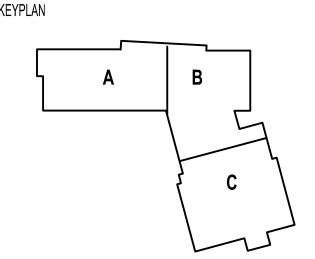


CENTRAL FALLS HIGH SCHOOL 10 HIGGINSON AVE, CENTRAL FALLS, RI KEYNOTE LEGEND:

100% CONSTRUCTION DOCUMENTS

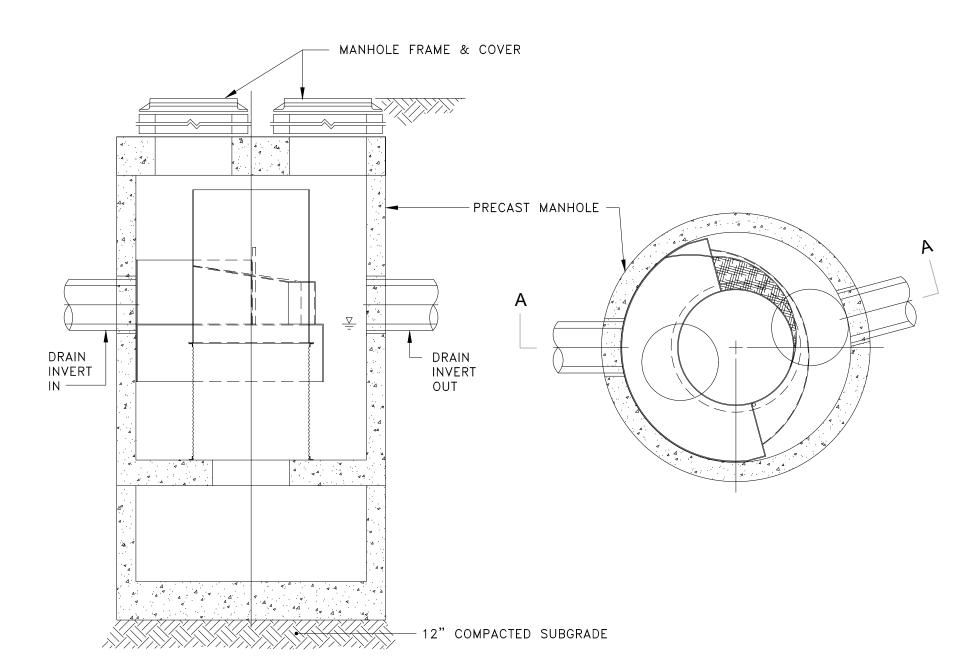


KEYPLAN

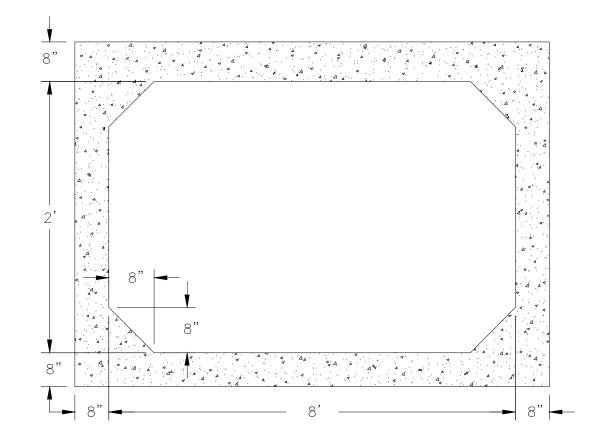


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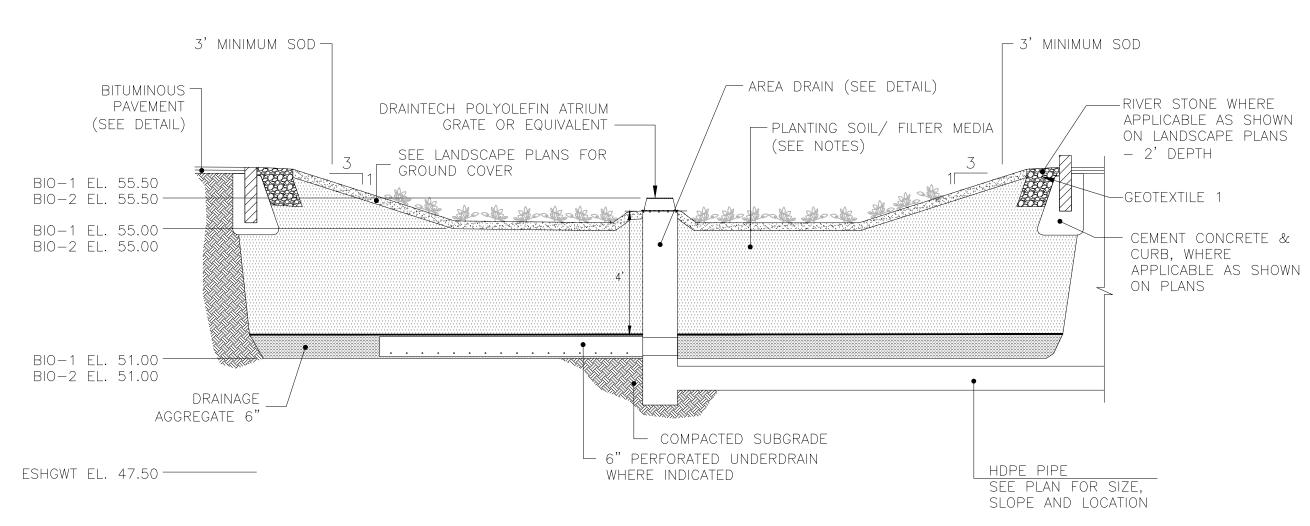
AS NOTED | DRAWING NUMBER: SCALE: JOB NO.: DATE: OCTOBER 13, 2023



- GENERAL NOTES
 1. MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE. 2. DIMENSIONS ARE SCHEMATIC DIMENSIONS. ACTUAL DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER, DESIGN,
- 3. CONTRACTOR TO PROVIDE SHOP DRAWING AND CALCULATIONS FROM MANUFACTURER OF EACH HS 4. WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL CODES, LAWS, AND REGULATIONS OF MASSDEP,
- CITY OF WATERTOWN, AND ALL OTHER GOVERNING AGENCIES. 5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING. 6. SEE TABLE FOR SIZING AND BASIS OF DESIGN DATA.
 - HYDRODYNAMIC SEPARATOR DETAIL



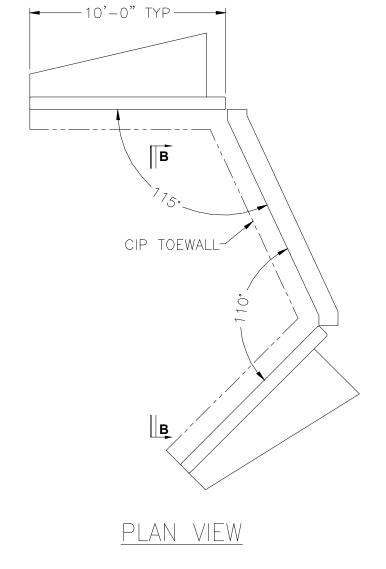
REINFORCED CONCRETE BOX CULVERT DETAIL NOT TO SCALE

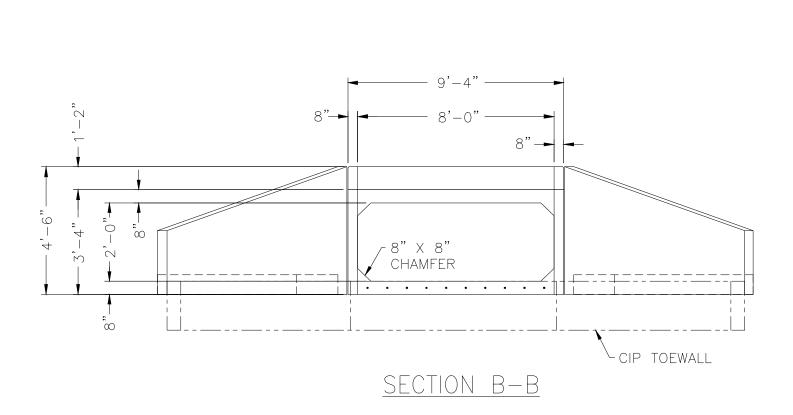


BIO-RETENTION AREA NOTES

- 1. THE PLANTING SOIL/FILTER MEDIA SHOULD BE A MIXTURE OF SAND, COMPOST, AND SOIL:
- 40% SAND *
- 20-30% TOPSOIL * - 30-40% COMPOST *
- * PERCENTAGES BY VOLUMES
- 2. THE SOIL MIX SHOULD BE UNIFORM, FREE OF STONES, STICKS, STUMPS, ROOTS, LARGER THAN 2 INCHES. CLAY CONTENT SHOULD NOT EXCEED 5%. SOIL PH SHOULD BE BETWEEN 5.5 AND 6.5 AND SHALL MEET ALL OTHER REQUIREMENTS OF SECTION 32.9320
- 3. THE SAND COMPONENT SHOULD BE GRAVELLY SAND THAT MEETS ASTM D 422. SIEVE SIZE PERCENT PASSING
- 2 INCH
- 3/4 INCH70-1001/4 INCH 50-80
- No. 40 15-40
- No. 200 0-3 4. THE TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND OR LOAM
- 5. THE COMPOST COMPONENT MUST BE PROCESSED FROM 6af COMPOST MEETING THE
- RISDISM RULES AND REGULATIONS FOR AGRICULTURAL COMPOSTING. 6. SEE LANDSCAPE PLANS FOR PLANTING SCHEDULE.

NOT TO SCALE



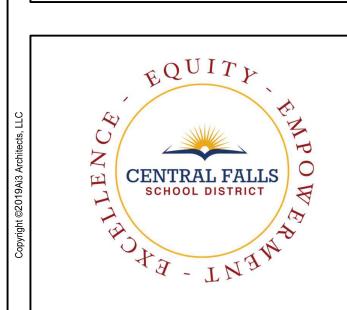


REINFORCED CONCRETE WINGWALL DETAIL NOT TO SCALE



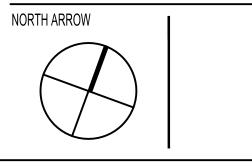


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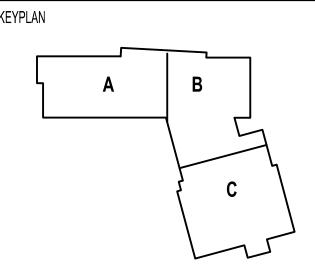
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