



City of Portsmouth, New Hampshire

Plans for the Construction of ALDRICH PARK IMPROVEMENTS

PROJECT #7230

BID #38-22

Summer / Fall 2022

PREPARED BY: DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801



LOCATION PLAN

LEGEND:

EXISTING	PROPOSED	
-----	-----	PROPERTY LINE
-----	-----	EDGE OF PAVEMENT
	[Pattern]	SIDEWALK (CONCRETE)
	[Pattern]	PLAYGROUND SAFE SURFACE
[Symbol]	[Symbol]	SIGN
[Symbol]	[Symbol]	RETAINING WALL
	[Symbol]	FENCE
[Symbol]		SHRUB
[Symbol]		TREE
--- UGE ---	--- UGE ---	U/G ELECTRIC
--- W ---	--- W ---	WATER
--- S ---	--- S ---	SEWER
--- GAS ---		GAS
--- D ---		DRAIN
[Symbol]	[Symbol]	LIGHT POLE
[Symbol]	[Symbol]	FIRE HYDRANT
[Symbol]	[Symbol]	UTILITY POLE
[Symbol]	[Symbol]	UTILITY POLE w/ LIGHT
[Symbol]	[Symbol]	CATCHBASIN
[Symbol]	[Symbol]	MANHOLE
[Symbol]	[Symbol]	WATER SHUT OFF
[Symbol]	[Symbol]	WATER VALVE
	[Symbol]	EROSION CONTROL
	[Symbol]	SAWCUT

INDEX	SHEET NO.	LATEST REV.
GENERAL NOTES	C-100	
EXISTING CONDITIONS and DEMOLITION PLAN	C-101	
SITE LAYOUT PLAN	C-102	
UTILITY PLAN	C-103	
DETAIL SHEET - EROSION CONTROL & SITE	C-201	
DETAIL SHEET - PARK FIXTURES	C-202	
DETAIL SHEET - ELECTRICAL	C-203	
DETAIL SHEET - WATER	C-204	

ISSUED FOR BID

02/16/2022



DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1530

0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: COVER SHEET			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: COVER	
APPROVED BY: MRB			

PROJECT NAME AND LOCATION:

ALDRICH PARK IMPROVEMENTS
PORTSMOUTH, NEW HAMPSHIRE

DESCRIPTION:

THE PROJECT CONSISTS OF DEMOLITION OF EXISTING HARDSCAPES, FENCING, AND SITE LIGHTING. REPLACE WITH NEW WALKWAYS, SITE FURNISHINGS, PLAYGROUND SAFETY SURFACE, RETAINING WALL, PERIMETER FENCE AND SITE LIGHTING.

CONSTRUCTION SEQUENCE:

1. INSTALL ALL EROSION CONTROL MEASURES.
2. DEMOLISH EXISTING PAVEMENTS, FENCE AND SITE LIGHTING.
3. INSTALL NEW UNDERGROUND ELECTRICAL CONDUIT RUNS.
4. CONSTRUCT NEW PERIMETER RETAINING WALL AND FENCE.
5. INSTALL SITE LIGHTING.
6. CONSTRUCT NEW PLAYGROUND SAFETY SURFACE AT SWING SET.
7. CONSTRUCT NEW HARDSCAPE PAVEMENT WALKWAYS.
8. INSTALL SITE FURNISHINGS.
9. INSTALL NEW PLANTINGS AT LANDSCAPED AREAS AND RESTORE DISTURBED AREAS WITH LOAM AND SEED.
10. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES:

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED, THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM OF 0.5" OR GREATER. ALL DAMAGED SILT FENCES SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. CONSTRUCT SILT FENCE AROUND TOPSOIL STOCKPILE.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

DISTURBED AREAS SHALL BE SEEDED WITHIN 72 HOURS FOLLOWING FINISHED GRADING.

AT NO TIME SHALL ANY DISTURBED AREA REMAIN UNSTABILIZED FOR LONGER THAN 72 HOURS. ALL AREAS WHERE CONSTRUCTION IS NOT COMPLETE WITHIN THIRTY DAYS OF THE INITIAL DISTURBANCE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

MAINTENANCE AND PROTECTION:

1. THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.
3. TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.
4. SEEDED AREAS WILL BE FERTILIZED AND RESEEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.
5. THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
6. THE SILT FENCE BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
7. SILT FENCING SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE PERMANENTLY SEEDED.

INSTALLATION PROCEDURES OF EROSION AND SEDIMENT CONTROLS:

A. VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	SEEDING RATE
CREeping RED FESCUE	100 LBS/ACRE
KENTUCKY BLUEGRASS	100 LBS/ACRE
SLOPE SEED (ALL SLOPES GREATER THAN OR EQUAL TO 3:1)	
CREeping RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
BIRDSFOOT TREFoil	2 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

PERENNIAL RYE:	0.7 LBS/1,000 S.F.
MULCH:	1.5 TONS/ACRE

B. MULCHING

IN ORDER TO BE EFFECTIVE, MULCHING MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS.

THERE ARE TWO TYPES OF STANDARDS:

APPLY MULCH PRIOR TO ANY STORM EVENT:

THIS IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER FORECASTS FOR ADEQUATE WARNING TO SIGNIFICANT STORMS.

REQUIRED MULCHING WITHIN SPECIFIED TIME PERIOD:

THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY IN AN AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS AND THE POTENTIAL FOR IMPACT ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

WHEN MULCH IS TO BE APPLIED TO PROVIDE PROTECTION OVER WINTER MONTHS, IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER SHALL BE ADDED TO THE MULCH.

C. WINTER NOTES

ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

ABBREVIATIONS:

R&R	REMOVE AND RESET
F&G	FRAME AND GRATE
F&C	FRAME AND COVER
ADJ	ADJUST FRAME

DEMOLITION NOTES:

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
2. MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
3. ANY DAMAGE BY THE CONTRACTOR DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE REPAIRS OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES NECESSARY TO COMPLETE THE WORK.
5. CONTRACTOR SHALL REMOVE TREES AND BRUSH AS INDICATED AND AS REQUIRED FOR COMPLETION OF THE WORK. ALL STUMPS SHALL BE REMOVED AND SURFACES GRUBBED WITHIN THE LIMITS OF WORK.
6. ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH.
7. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION WORK. THIS INCLUDES SILT FENCE / SILT SOCK AND INLET PROTECTION BARRIERS.
8. CONTRACTOR SHALL SAWCUT PAVEMENT AT EDGES OF TRENCHES FOR CLEAN VERTICAL EDGES.
9. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE UTILITIES. WORK ASSOCIATED WITH UTILITIES, BUT NOT LIMITED TO: SITE LIGHTING.
10. CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.
11. CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCING AROUND EXISTING TREES TO A DISTANCE APPROVED BY THE CITY ARBORIST. NO EQUIPMENT SHALL BE ALLOWED WITHIN THE TREE PROTECTION AREAS.

GRADING NOTES:

1. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE FREE OF LOW SPOTS AND PONDING AREAS. THE INTENT OF FINAL GRADING IS TO CREATE SIDEWALKS AND ROADS TO MATCH SLOPES OF HOMES AND GRADES OF EXISTING DRIVEWAYS TO THE BEST EXTENT POSSIBLE.
2. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
3. CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM REQUIREMENTS FOR COMPACTION:

BELOW PAVEMENT AND CONCRETE AREAS:	95%
TRENCH BEDDING AND BACKFILL:	95%
BELOW LOAM AND SEED AREAS:	90%

 COMPACTION PERCENTAGES SHALL BE THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.

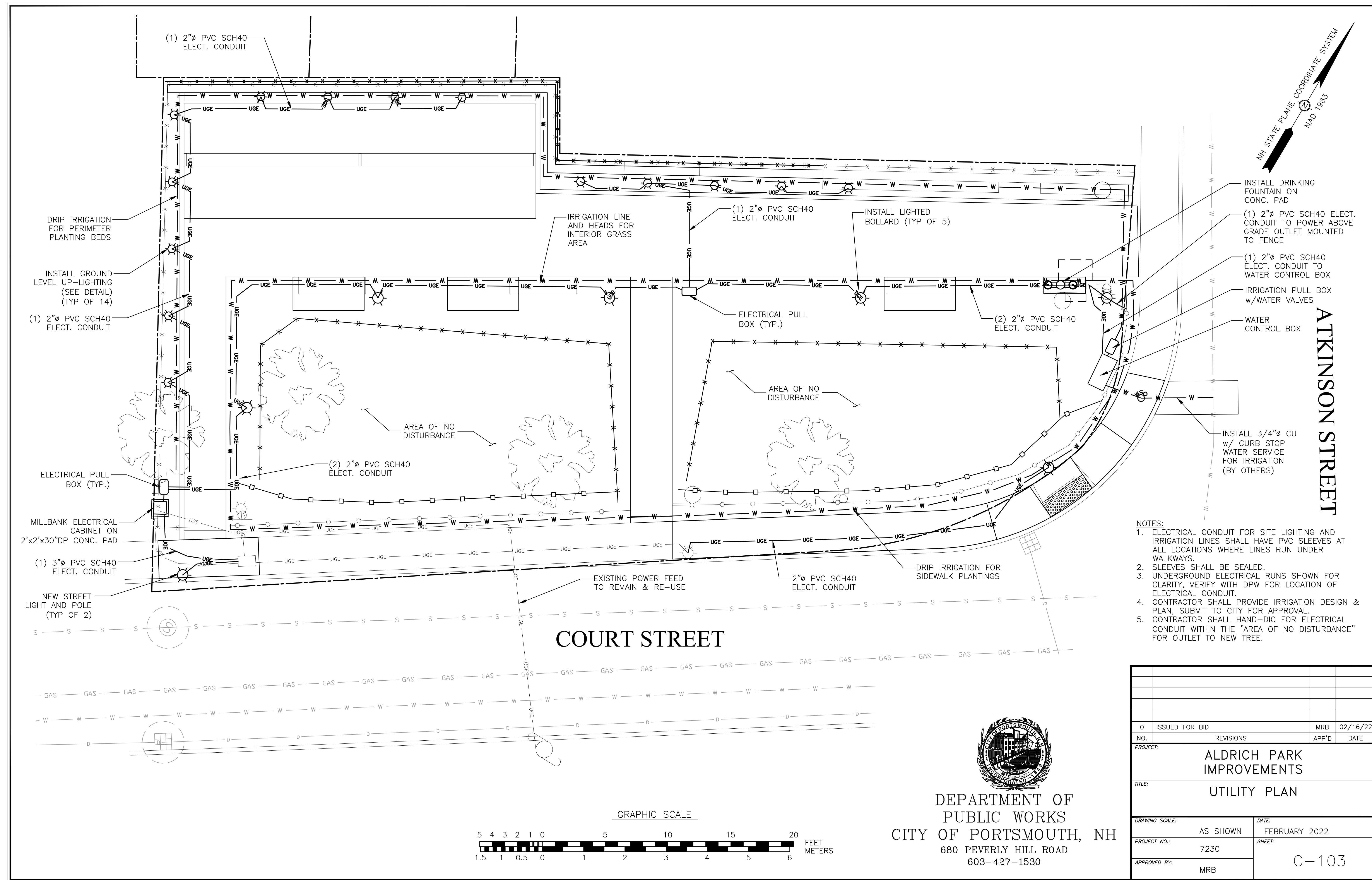
SITE NOTES:

1. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE AS-BUILT PLANS (MYLAR AND .DWG FORMAT AUTOCAD FILES) TO THE CITY OF PORTSMOUTH UPON COMPLETION OF THE PROJECT. AS-BUILT SHALL BE PREPARED AND CERTIFIED BY A LAND SURVEYOR OR PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE.
3. MATERIALS AND CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
4. CONTRACTOR SHALL PROVIDE A LICENSED ENGINEER OR SURVEYOR TO DETERMINE ALL LINES AND GRADE.
5. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL VERTICAL AN HORIZONTAL CONTROL FOR THE PROJECT.
6. PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM CONTROL DEVICES". "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS".
7. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF PORTSMOUTH FOR APPROVAL.
8. CONTRACTOR SHALL BE FAMILIAR WITH ALL AMERICAN WITH DISABILITY ACT (ADA) REQUIREMENTS FOR ACCESSIBILITY.

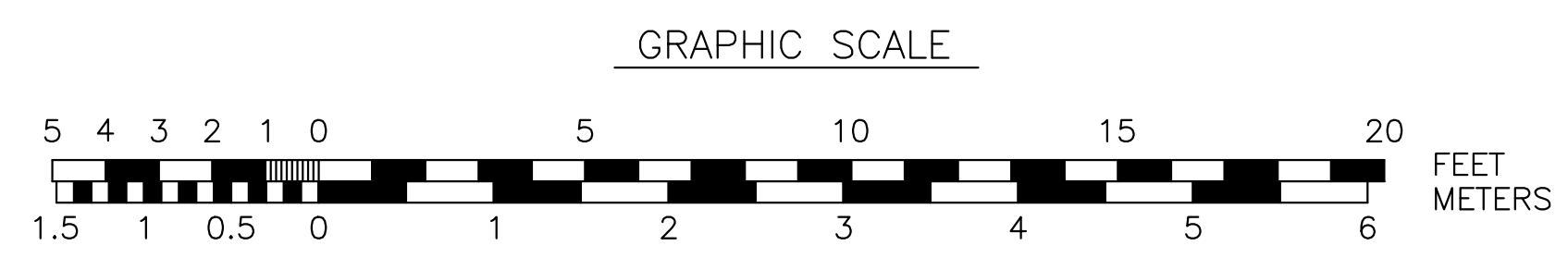



DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1530

0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: GENERAL NOTES			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: G-100	
APPROVED BY: MRB			

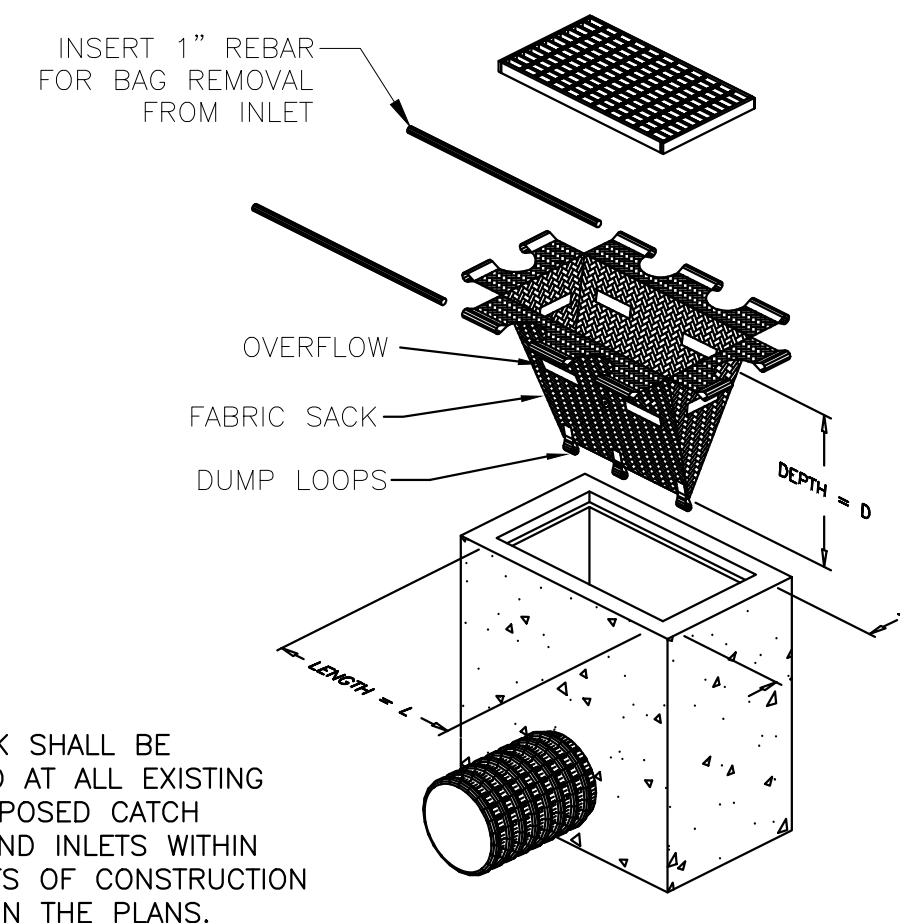


- NOTES:**
1. ELECTRICAL CONDUIT FOR SITE LIGHTING AND IRRIGATION LINES SHALL HAVE PVC SLEEVES AT ALL LOCATIONS WHERE LINES RUN UNDER WALKWAYS.
 2. SLEEVES SHALL BE SEALED.
 3. UNDERGROUND ELECTRICAL RUNS SHOWN FOR CLARITY, VERIFY WITH DPW FOR LOCATION OF ELECTRICAL CONDUIT.
 4. CONTRACTOR SHALL PROVIDE IRRIGATION DESIGN & PLAN, SUBMIT TO CITY FOR APPROVAL.
 5. CONTRACTOR SHALL HAND-DIG FOR ELECTRICAL CONDUIT WITHIN THE "AREA OF NO DISTURBANCE" FOR OUTLET TO NEW TREE.



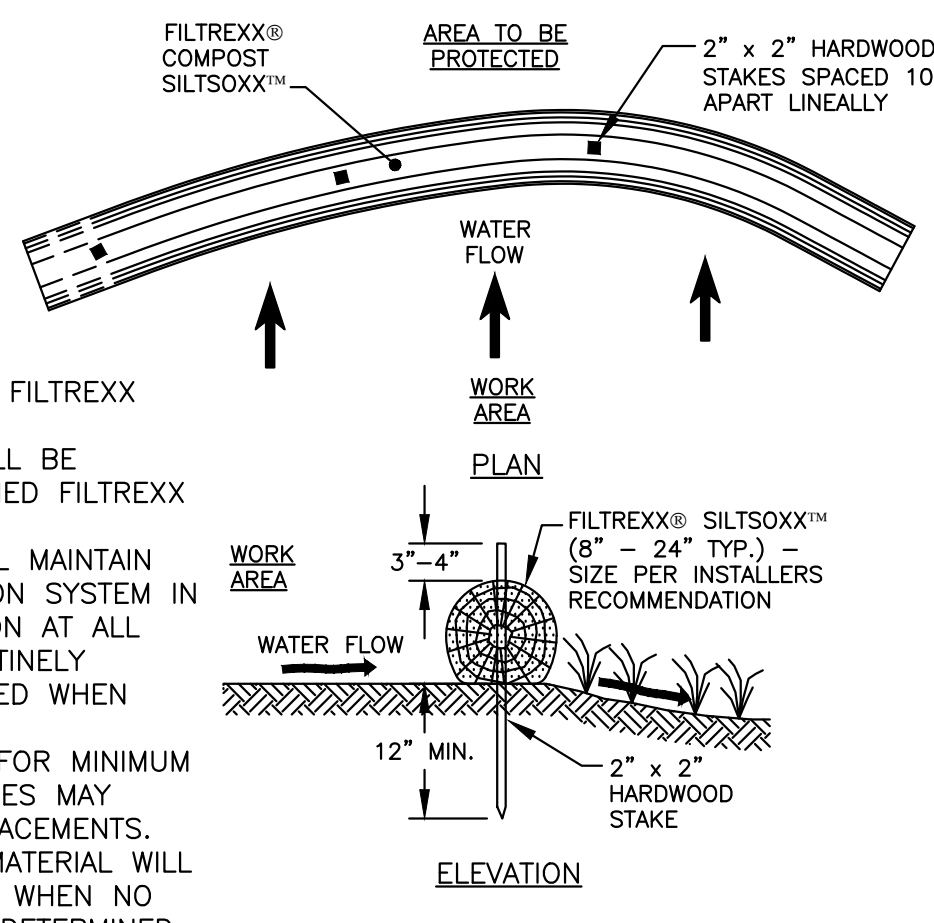

 DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1530

0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: UTILITY PLAN			
DRAWING SCALE:	AS SHOWN	DATE:	FEBRUARY 2022
PROJECT NO.:	7230	SHEET:	C-103
APPROVED BY:	MRB		



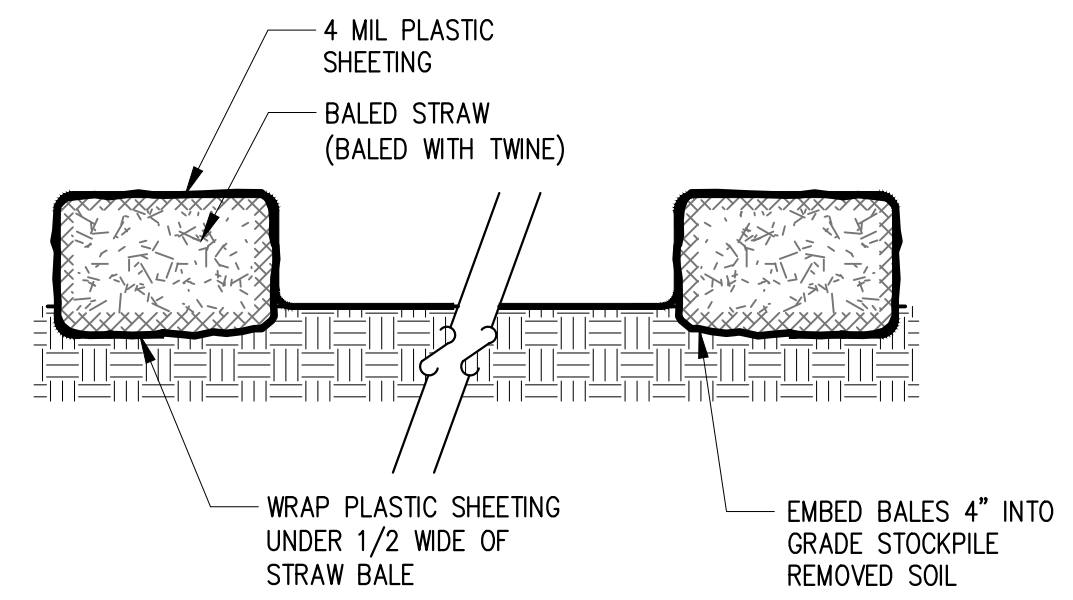
- NOTES:**
- SILT SACK SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS AND INLETS WITHIN THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS.
 - INSTALL AND MAINTAIN PER MANUFACTURERS REQUIREMENTS.

DRAINAGE INLET PROTECTION
SCALE: N.T.S



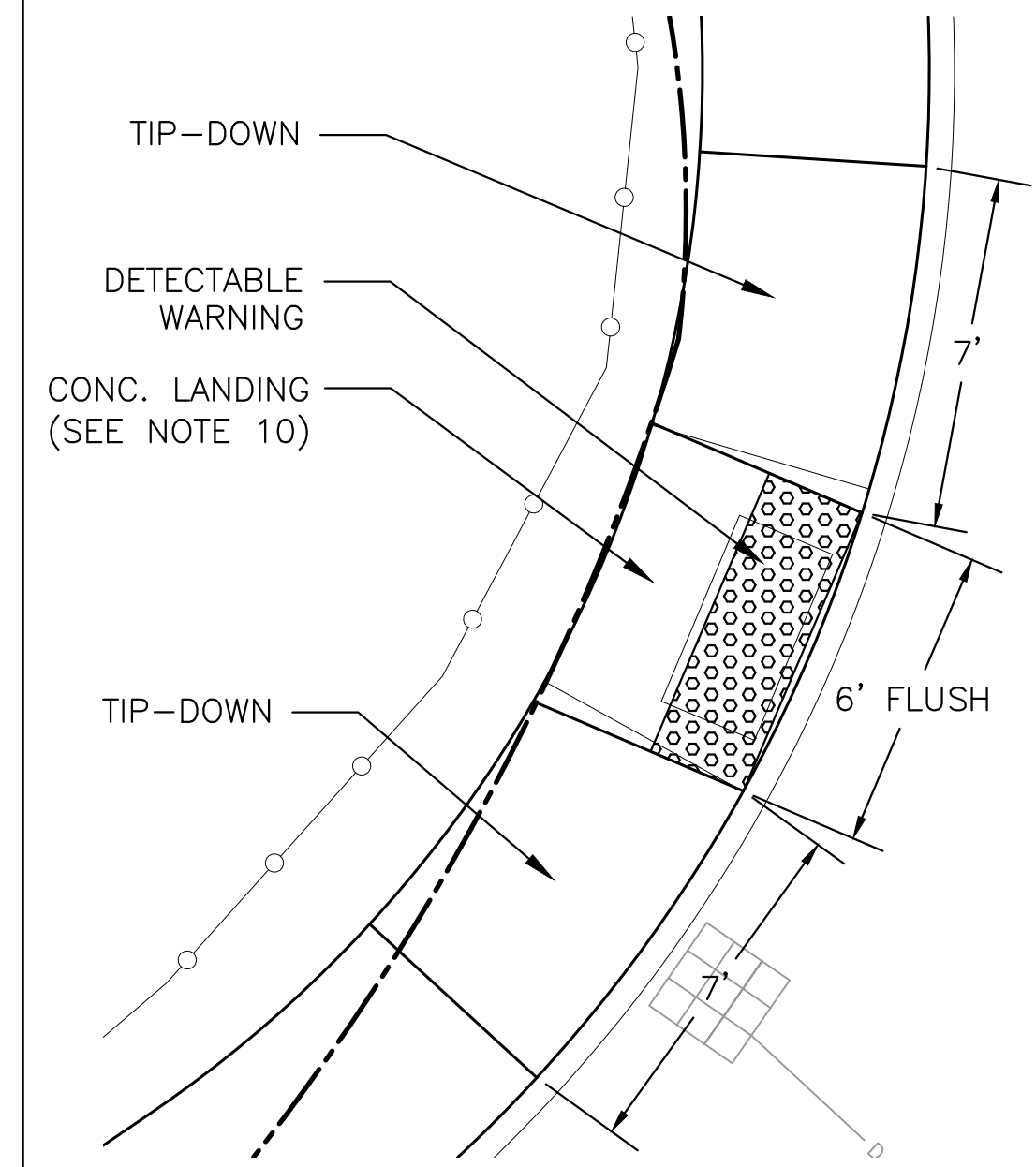
- NOTES:**
- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 - FILTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
 - THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
 - SILTSOXX DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS.
 - THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.

SEDIMENTATION LOG
SCALE: N.T.S



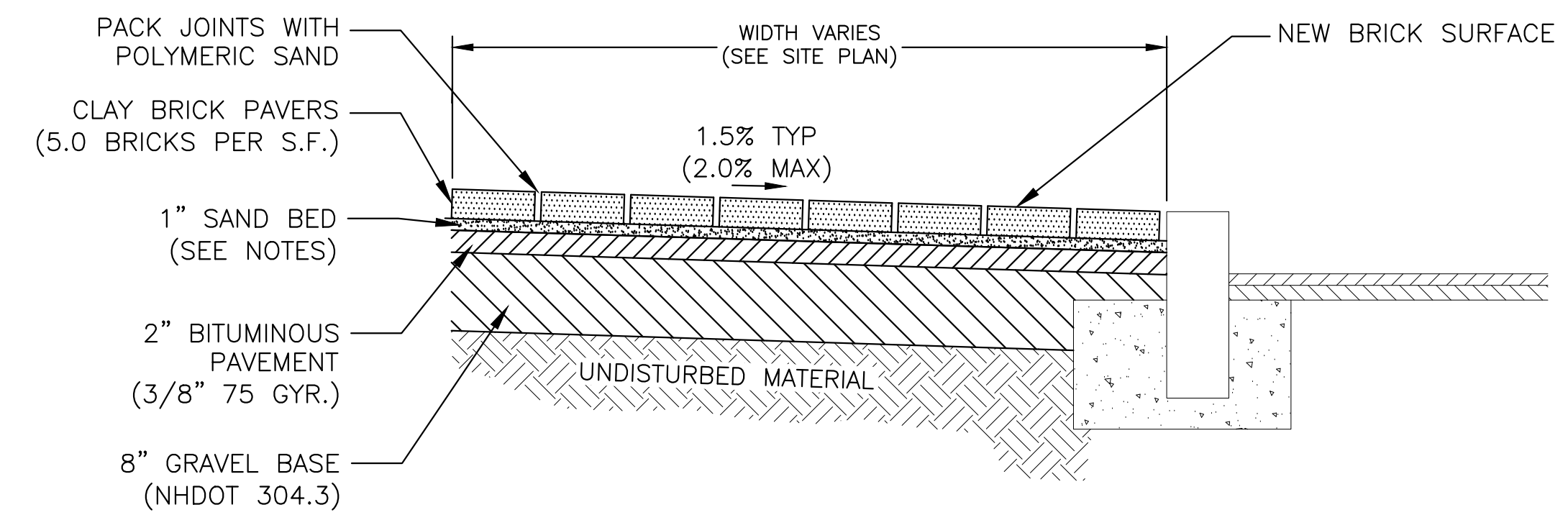
- NOTES:**
- CONTRACTOR MUST PROVIDE A CONCRETE CLEAN-OUT STATION. NO TRUCK CLEAN-OUT WILL BE ALLOWED WITHOUT CONTAINMENT.
 - PLASTIC WRAP SHALL BE FREE OF TEARS OR HOLES.
 - AFTER BASIN IS USED, WASHWATER FROM WASHOUT BASIN SHALL BE ALLOWED TO EVAPORATE OR BE VACUUMED OUT.
 - REMOVE REMAINING HARDENED SOLIDS.
 - REPLACE PLASTIC SHEETING AND TRAWBALES AS REQUIRED.

CONCRETE CLEAN-OUT
SCALE: N.T.S



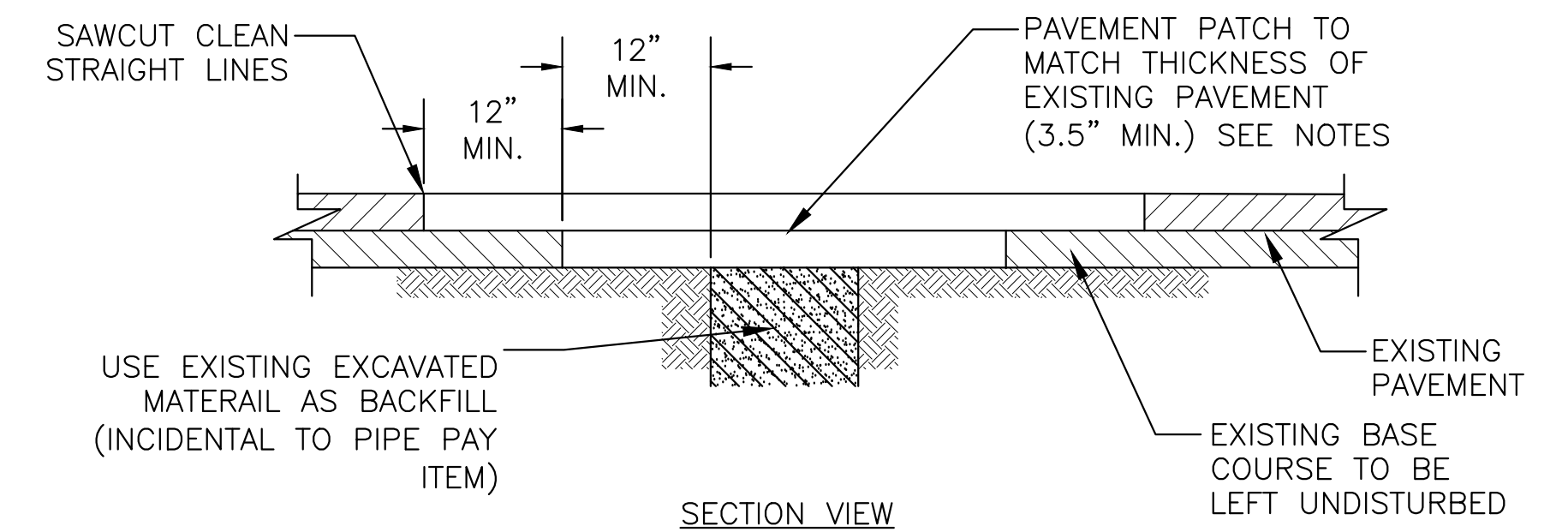
ADA CURB RAMP
SCALE: N.T.S

- NOTES:**
- ALL CURB RAMPS AND ACCESSIBLE ROUTES (SIDEWALKS) SHALL COMPLY WITH ADA (AMERICANS WITH DISABILITIES ACT).
 - TIP DOWNS SHALL HAVE A RUNNING SLOPE OF 7.5% (8.3% MAX.) AND CROSS SLOPE OF 1.5% (2.0% MAX.).
 - THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK RAMPS GREATER THAN 1/4".
 - LANDINGS AND AREAS OF CHANGE IN DIRECTION SHALL HAVE A SLOPE OF 1.5% (2.0% MAX.) IN ALL DIRECTIONS.
 - DETECTABLE WARNINGS SHALL BE INSTALLED SO THAT PATTERN IS IN LINE WITH DIRECTION OF TRAVEL TO THE EXTENT POSSIBLE.
 - DETECTABLE WARNING TILES SHALL BE PLACED SO THAT THE EDGE CLOSEST TO THE CURB IS BETWEEN 6"-8" FROM CURB LINE.
 - DETECTABLE WARNING TILE SHALL SPAN THE FULL WIDTH OF THE RAMP AND A MINIMUM OF 24" DEEP.
 - DETECTABLE WARNING TILE SHALL BE CAST IRON, NEENAH FOUNDRY OR APPROVED EQUAL. RADIUS ADA CURB RAMPS SHALL HAVE DETECTABLE WARNING TILES IN A RADIUS PATTERN USING TUFTILE OR APPROVED EQUAL.
 - CONCRETE AT LANDINGS OR TIP-DOWNS THAT CONTAIN DETECTABLE WARNING TILES AND/OR AREAS THAT ARE SUSCEPTIBLE TO VEHICLES TRAVELING OVER, SHALL BE 6" THICK w/FIBER REINFORCEMENT AND A MEDIUM BROOM FINISH. ALL OTHER RAMPS SHALL BE 4" THICK AND COMPLY WITH CONCRETE SIDEWALK SPECIFICATIONS.
 - BASE MATERIAL FOR CONCRETE SECTIONS SHALL BE 8" THK CRUSHED GRAVEL BASE (NHDOT 304.3).



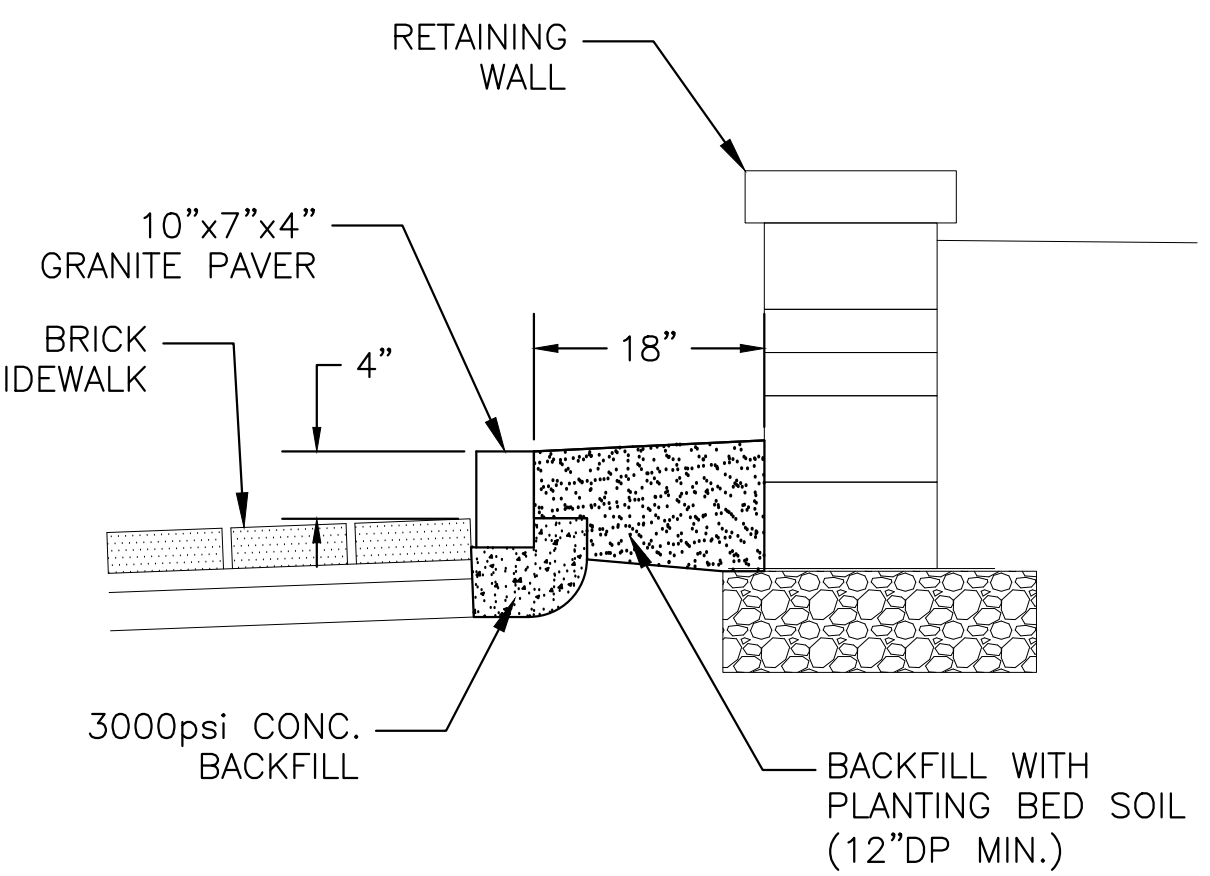
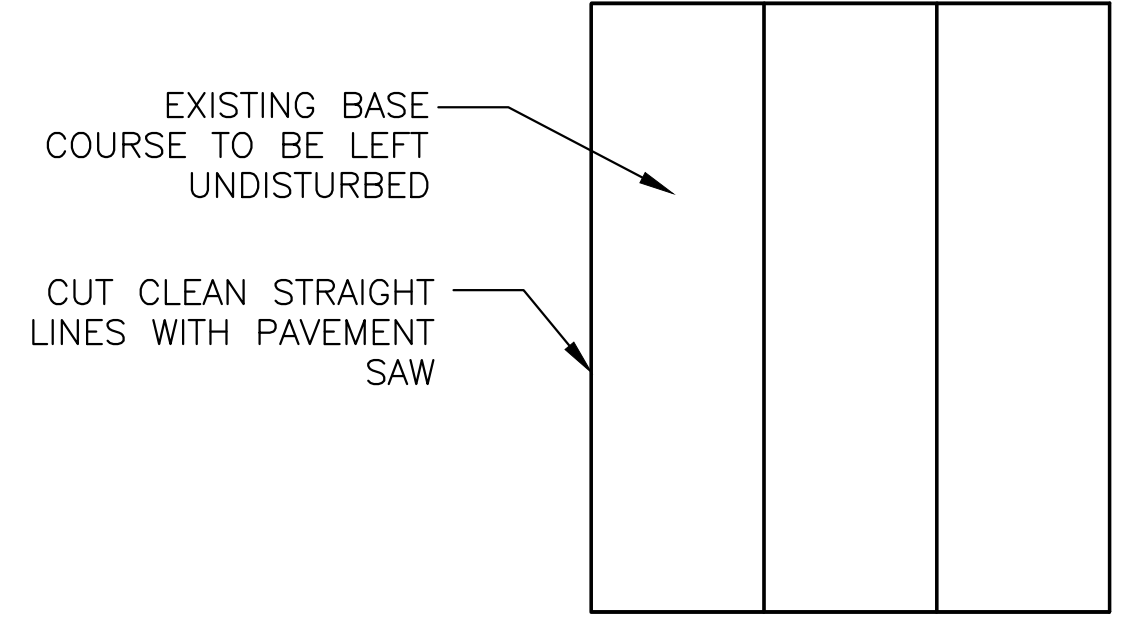
- NOTES:**
- PINEHALL PAVERS ARE REQUIRED. CONTRACTOR SHALL SUBMIT SAMPLE OF BRICKS FOR APPROVAL BY THE CITY OF PORTSMOUTH.
 - IN AREAS WHERE BRICK DOES NOT ABUT CURBING, EDGING SHALL BE INSTALLED TO HOLD BRICKS IN PLACE.
 - SAND BEDDING: 3 PARTS SAND MIX AND 1 PART PORTLAND CEMENT.
 - BRICKS SHALL BE CLASS SX, TYPE 1, APPLICATION PX. BRICKS SHALL BE NO.1, WIRE CUT FOR PAVING w/COMPRESSIVE STRENGTH OF 6,000psi (MIN.). BRICKS SHALL NOT BE CORED OR HAVE FROGS AND SHALL BE STANDARD SIZE (2.25"x3.625"x7.625").
 - BASE MATERIAL SHALL BE 304.3 CRUSHED GRAVEL BASE. GRAVEL BASE MATERIAL SHALL EXTEND 6" MINIMUM BEYOND LIMITS OF SIDEWALK UNLESS CONFINED. BASE MATERIAL SHALL BE COMPACTED TO 95% PROCTOR.
 - ALL ACCESSIBLE ROUTES (SIDEWALKS) SHALL COMPLY WITH ADA (AMERICANS WITH DISABILITIES ACT).

BRICK SIDEWALK
SCALE: N.T.S



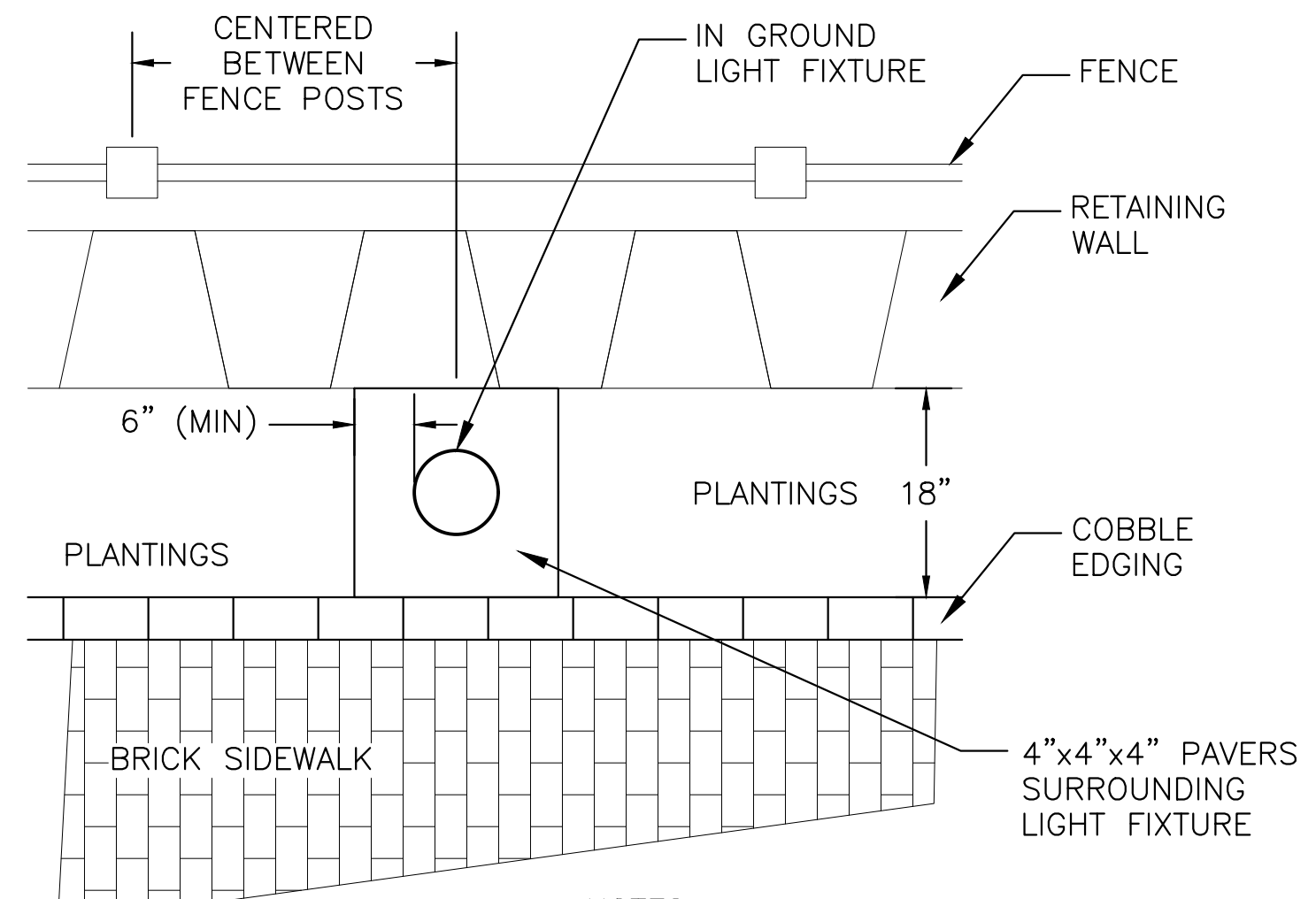
- NOTES:**
- TEMPORARY ASPHALT PLACED FOR UTILITY TRENCHES ARE SUBSIDIARY TO THE PIPE INSTALLATION PAY ITEM.
 - TEMPORARY PAVEMENT PATCH SHALL BE 3/4" BINDER (2" THK MIN.). PERMANENT PAVEMENT PATCH SHALL MATCH EXISTING THICKNESS, OR 3.5", WHICH EVER IS GREATER.
 - TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED REGULARLY. CONTRACTOR SHALL REPLACE TEMPORARY PAVEMENT PATCHES AT THE DISCRETION OF THE ENGINEER.
 - TRENCHES MAY REMAIN GRAVEL DURING THE WORK WEEK. NO TRENCHES SHALL REMAIN GRAVEL OVER THE WEEKEND, TEMPORARY PAVEMENT IS REQUIRED.

UTILITY TRENCH PATCH
SCALE: N.T.S



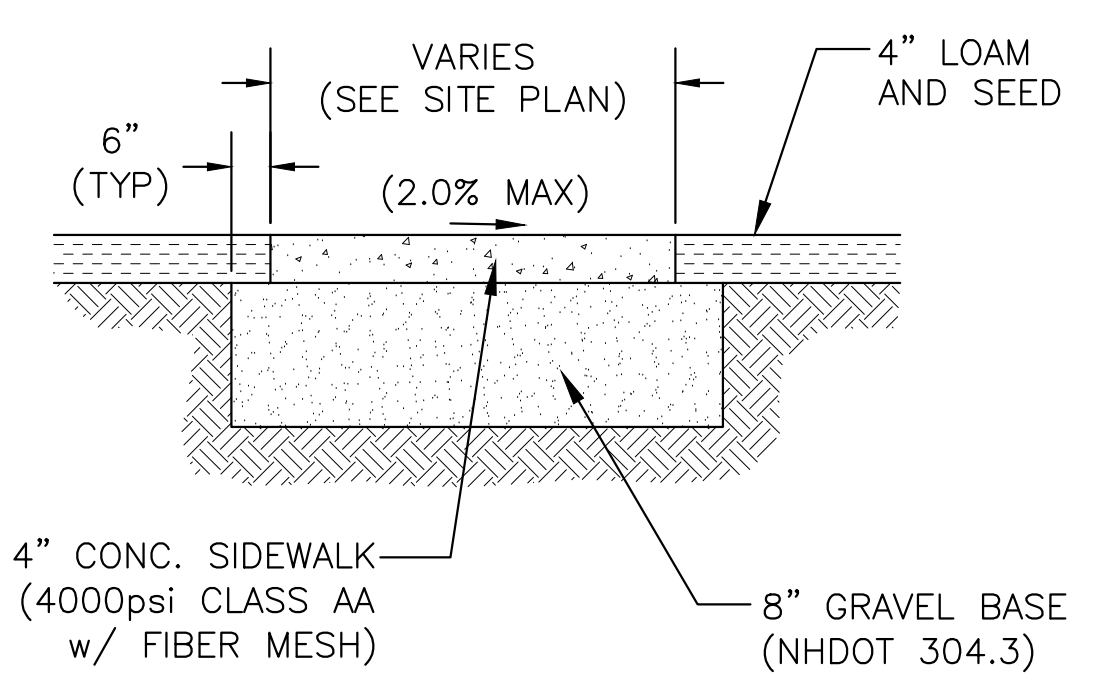
- NOTES:**
- JOINTS SHALL BE MORTARED.

COBBLE EDGING
SCALE: N.T.S




- NOTES:**
- ALL IN GROUND LIGHT FIXTURES WITH UP-SPECTRUM ONTO FENCE SHALL BE CENTERED BETWEEN FENCE POSTS.
 - JOINTS SHALL BE PACKED w/POLYMERIC SAND.

COBBLE LIGHT SURROUND
SCALE: N.T.S



- NOTES:**
- EDGES SHALL BE HAND TOOLED w/ 1/8" RADII.
 - EXPANSION JOINT FIBER FILLER SHALL BE TRIMMED TO 1/4" BELOW SIDEWALK SURFACE FOR SEALANT.
 - THERE SHALL BE NO CHANGE IN ELEVATION (LIP) OR GAPS IN THE SIDEWALK GREATER THAN 1/4".
 - SIDEWALK CONCRETE SHALL BE TREATED WITH SILOXANE SEALER.
 - MEDIUM BROOM FINISH.

CONCRETE PAD
SCALE: N.T.S


DEPARTMENT OF PUBLIC WORKS
CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1530

0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: DETAIL SHEET EROSION CONTROLS & SITE			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: C-201	
APPROVED BY: MRB			

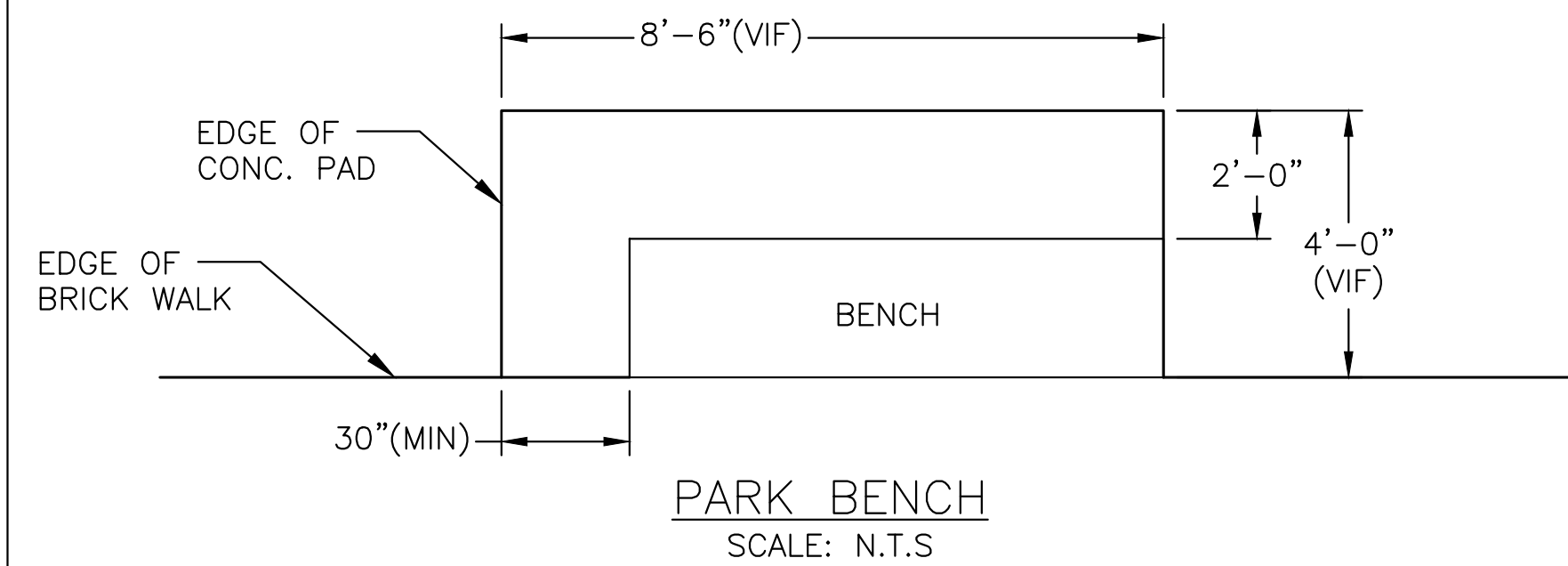


- NOTES:**
1. SAFETY TILES SHALL BE FOR PLAYGROUND APPLICATIONS. SPECIFICALLY DESIGNED TO REDUCE THE RISK OF SERIOUS INJURIES ASSOCIATED WITH FALLS FROM PLAYGROUND EQUIPMENT.
 2. TILES SHALL 18"x18" (MIN.) AND SHALL BE INTERLOCKING TYPE WITH EDGING ALONG PERIMETER.
 3. THICKNESS OF TILE AND BASE MATERIALS SHALL BE BASED ON A 6' FALL HEIGHT DESIGN RATING AND COMPLIANT WITH ASTM F1292-09 STANDARDS.
 4. NON-SLIP, MILDEW AND MOLD RESISTANT.
 5. COST OF INSTALLATION INCLUDES ALL BASE MATERIAL AND PREPARATION (INCL. EXCAVATION OF EXISTING).
 6. COLOR AND PATTERN TO BE APPROVED BY DPW.
 7. INSTALL PER MANUFACTURERS REQUIREMENTS.
 8. ADVENTURE TURF, LLC OR APPROVED EQUAL.

**RUBBER TILE
PLAYGROUND SURFACE**
SCALE: N.T.S



- NOTES:**
1. CONTRACTOR SHALL PROVIDE AND INSTALL ONE ADDITIONAL BENCH TO MATCH EXISTING.
 2. THE TWO EXISTING BENCHES SHALL BE REMOVED, RE-STORED AND REINSTALLED.
 3. RE-STORING EXISTING BENCH SHALL INCLUDE SANDBLASTING METAL PIECES AND APPLYING NEW PRIMER & BLACK PAINT. WOOD PLANKS TO BE REFINISHED.
 4. INSTALL BENCHES ON NEW CONCRETE PADS w/GALVANIZED ANCHORS.
 5. 30" SIDE SHALL REMAIN CLEAR TO ALLOW FOR WHEELCHAIR SEATING ADJACENT TO BENCH.



PARK BENCH
SCALE: N.T.S

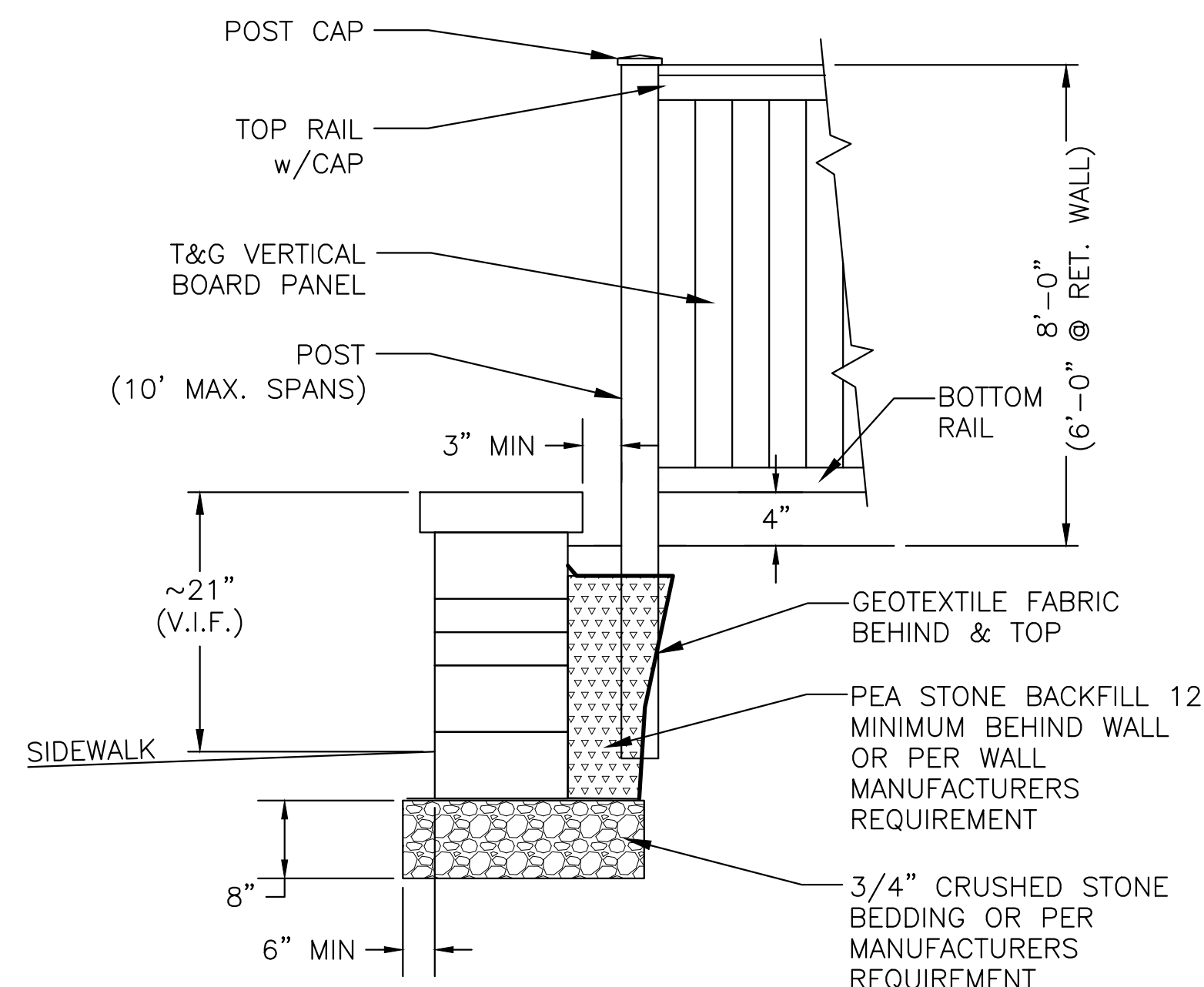
REMOVE CHICKEN WIRE AND ZIP TIES



REMOVE BOTTOM PLATE AT BACKSIDE OF EACH POST

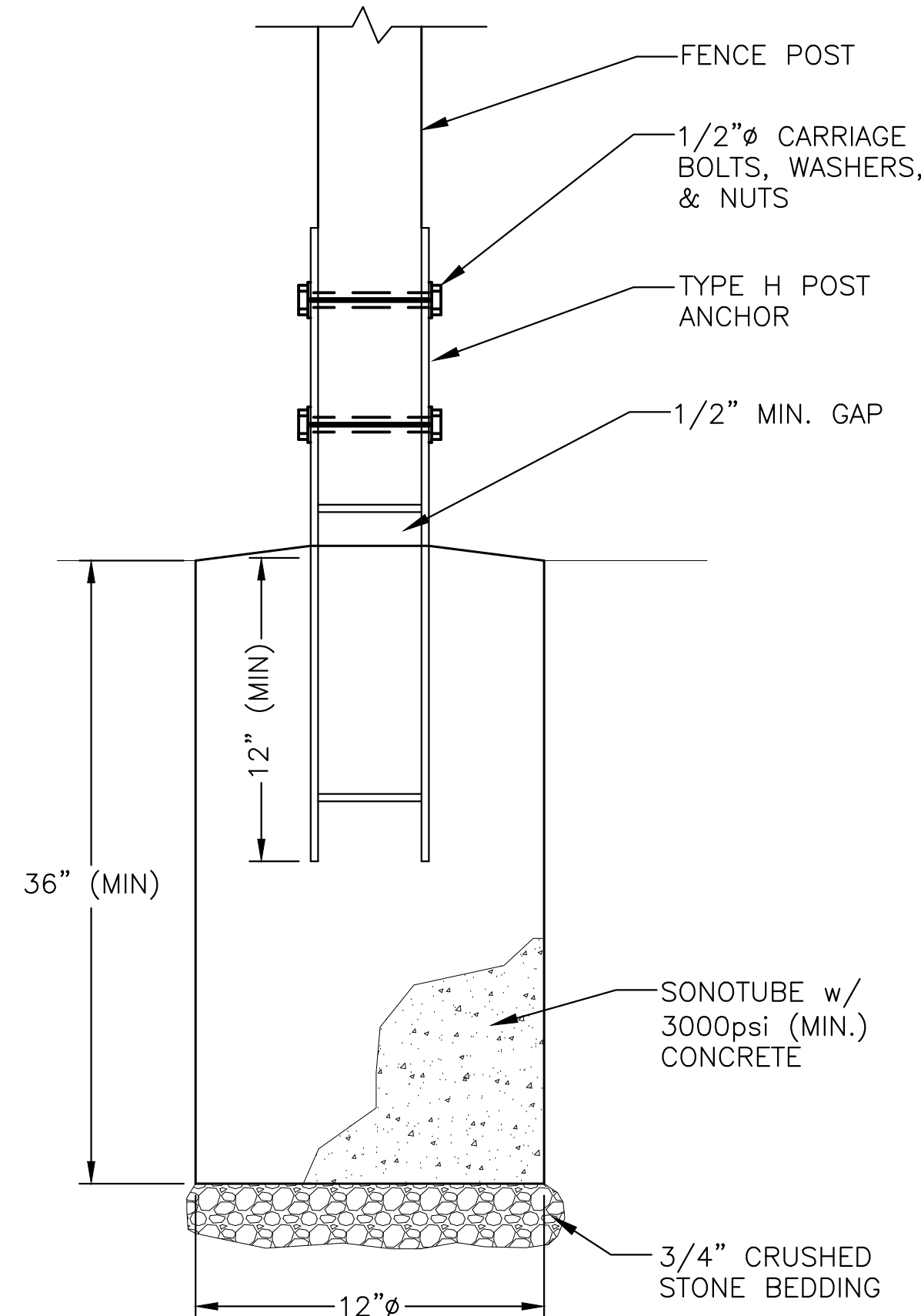
- NOTES:**
1. CONTRACTOR SHALL REMOVE THE REAR BASE PLATE AND GRIND OLD WELDS SMOOTH.
 2. CLEAN NON-GALVANIZED AREAS AND APPLY GALV. AS NECESSARY

SWING SET BASE PLATE
SCALE: N.T.S



- NOTES:**
1. INTENT IS TO MATCH EXISTING RETAINING WALL MANUFACTURER, TYPE, COLOR AND HEIGHT. CONTRACTOR TO VERIFY AND SUBMIT FOR APPROVAL PRIOR TO CONSTRUCTION
 2. GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
 3. CONSTRUCT WALL PER MANUFACTURERS REQUIREMENTS.
 4. CONTRACTOR TO SUBMIT FENCE STYLE AND COLOR FOR APPROVAL PRIOR TO CONSTRUCTION.

BLOCK WALL & FENCE
SCALE: N.T.S



- NOTES:**
1. ANCHORS, BOLTS, WASHER, & NUTS SHALL BE HOT DIPPED GALVANIZED OR APPROVED EQUAL.


FENCE POST & PIER
SCALE: N.T.S



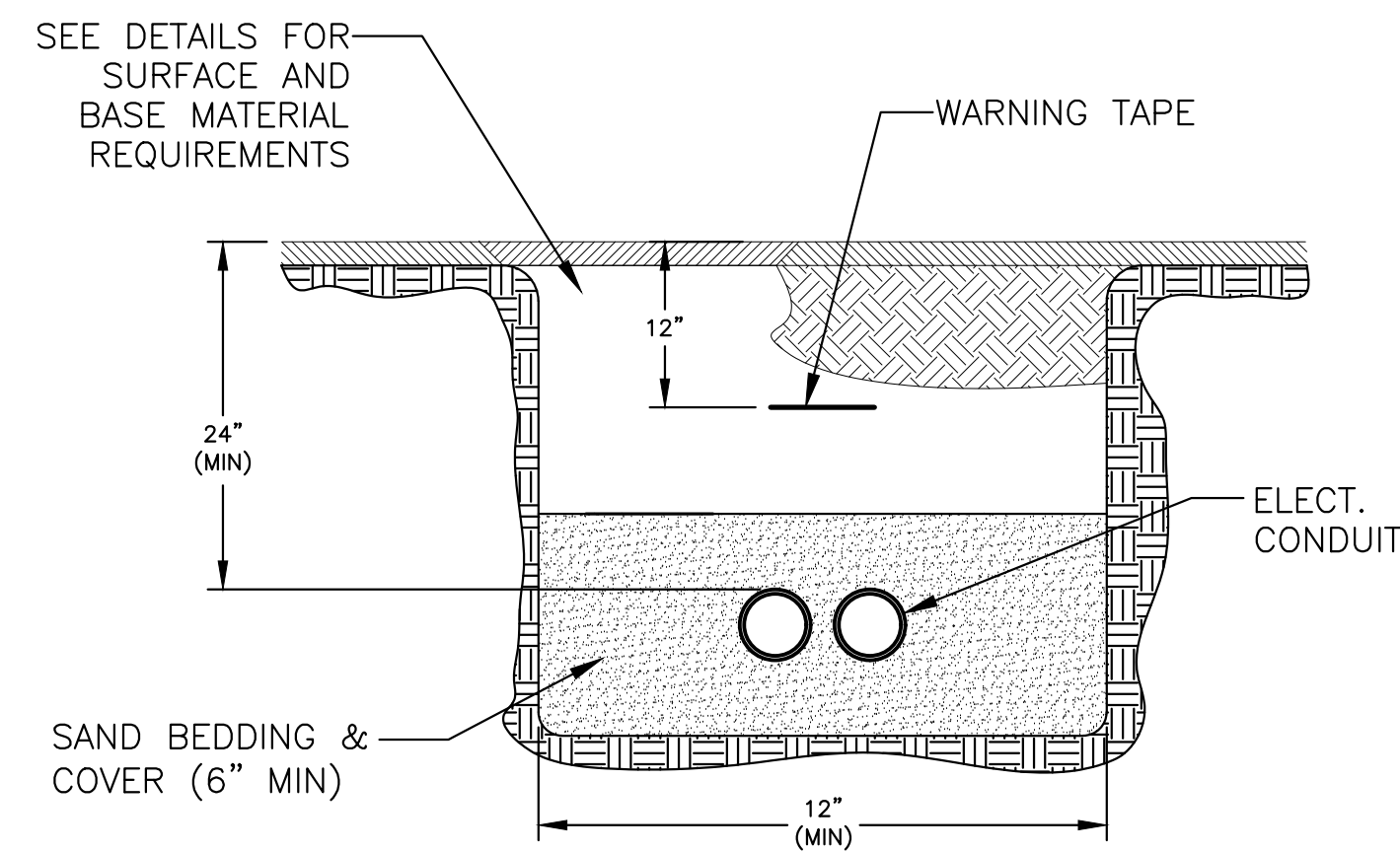
"This is the story of a bad boy. Well, not such a very bad boy; and I ought to know, for I am, or rather I was, that boy myself."
Thomas Bailey Aldrich, The Story of a Bad Boy (1970)

- NOTES:**
1. PAINTING AND QUOTE TO BE PLACED ON THE PROPOSED FENCE. LOCATION TO BE DETERMINED.
 2. COORDINATE WITH CITY OF PORTSMOUTH DPW.
 3. DRAFT SHALL BE PROVIDED TO THE CITY FOR APPROVAL.

HISTORIC MURAL & QUOTE
SCALE: N.T.S

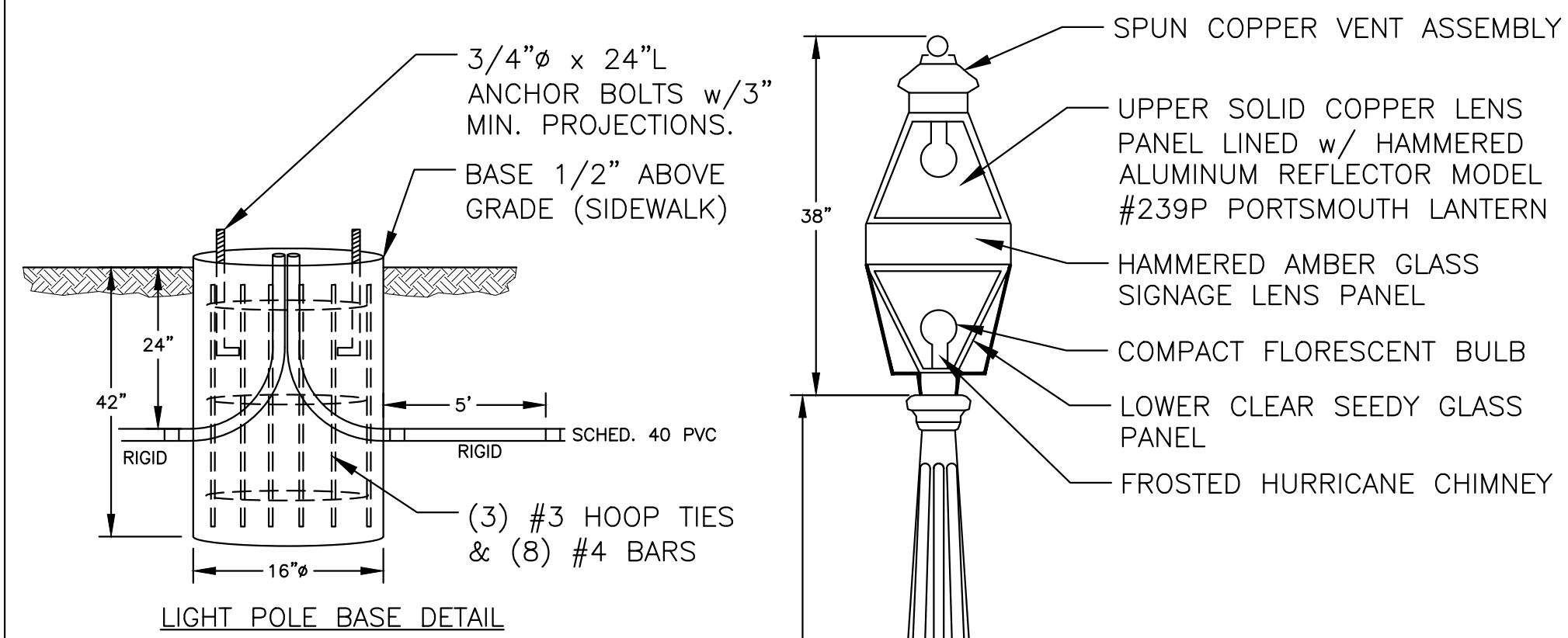

 DEPARTMENT OF
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0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: DETAIL SHEET PARK FIXTURES			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: C-202	
APPROVED BY: MRB			



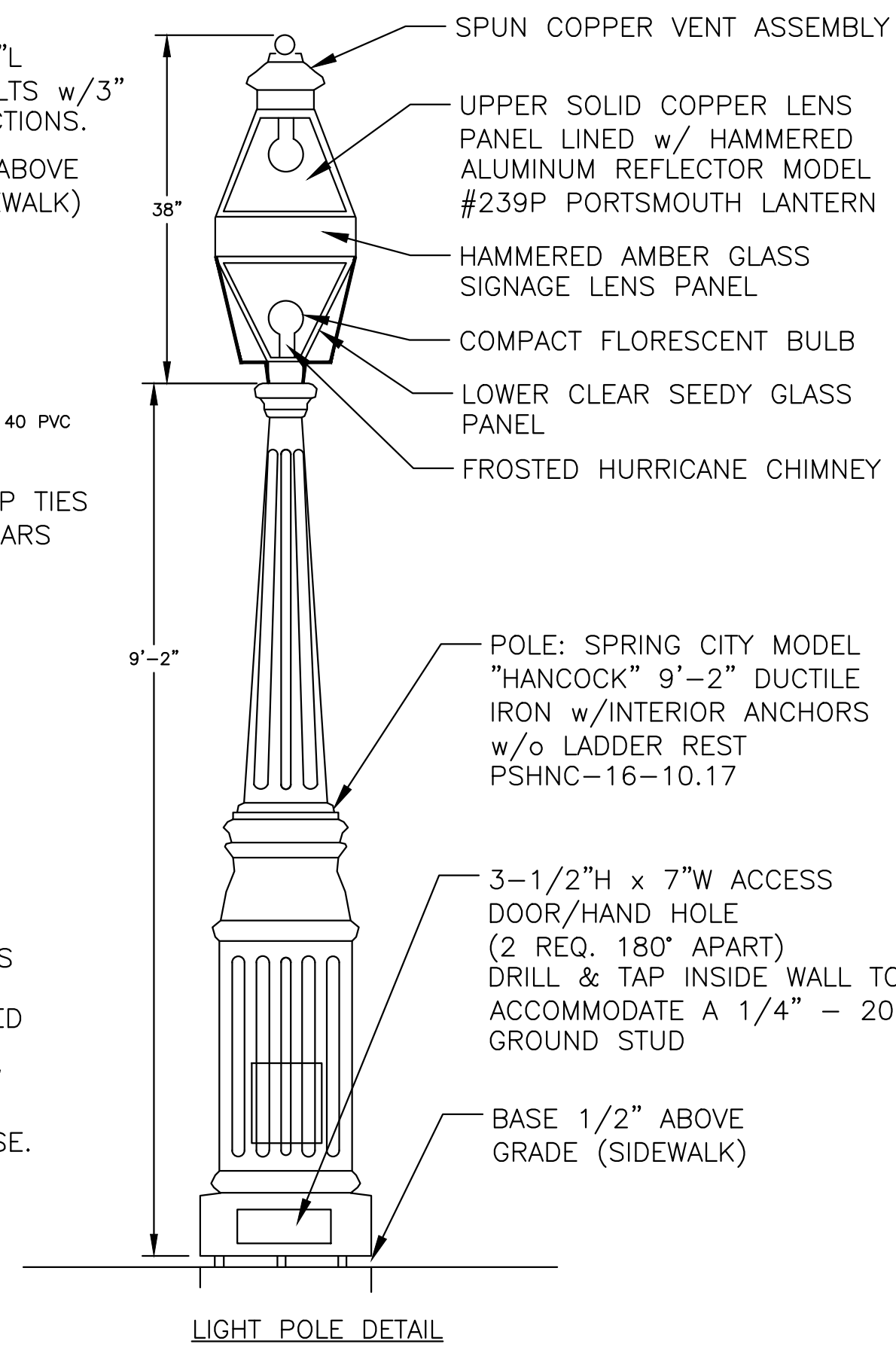
- NOTES:**
1. VERIFY QTY, MATERIAL & SIZE OF CONDUITS w/ PORTSMOUTH DPW.
 2. NO CONDUIT RUN SHALL EXCEED 360' IN BENDS.
 3. ALL CONDUIT SHALL BE U.L. LISTED SCH 40 EXCEPT UNDER ROADS, WHERE SCH 80 IS REQUIRED.
 4. A 200# PULL ROPE SHALL BE BLOWN IN TO EACH CONDUIT AFTER ASSEMBLY.
 5. CONTRACTOR TO COORDINATE INSPECTIONS w/ AUTHORITY HAVING JURISDICTION PRIOR TO BACKFILL.
 6. ALL CONDUIT SHALL CONFORM TO CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, AND ALL STATE AND LOCAL CODES.
 7. ALL 90° SWEEPS SHALL BE MADE USING RIGID GALVANIZED STEEL SWEEPS WITH A 36" TO 48" RADIUS.

ELECT. & COMM. CONDUIT TRENCH
SCALE: N.T.S



- NOTES:**
1. CONCRETE FOR BASE SHALL BE 4,000psi MINIMUM AFTER 28 DAYS.
 2. RIGID PIPE SHALL BE GALVANIZED.
 3. ANCHOR BOLTS, WASHERS AND NUTS SHALL BE HOT DIPPED GALVANIZED.
 4. ANCHOR BOLT PATTERN AS SPECIFIED BY POLE MANUFACTURER.
 5. LIGHT POLE BASE SHALL BE SET 1" BELOW SIDEWALK GRADE. BUTT SIDEWALK TIGHT TO LIGHT POLE BASE.

STREET LIGHT
SCALE: N.T.S

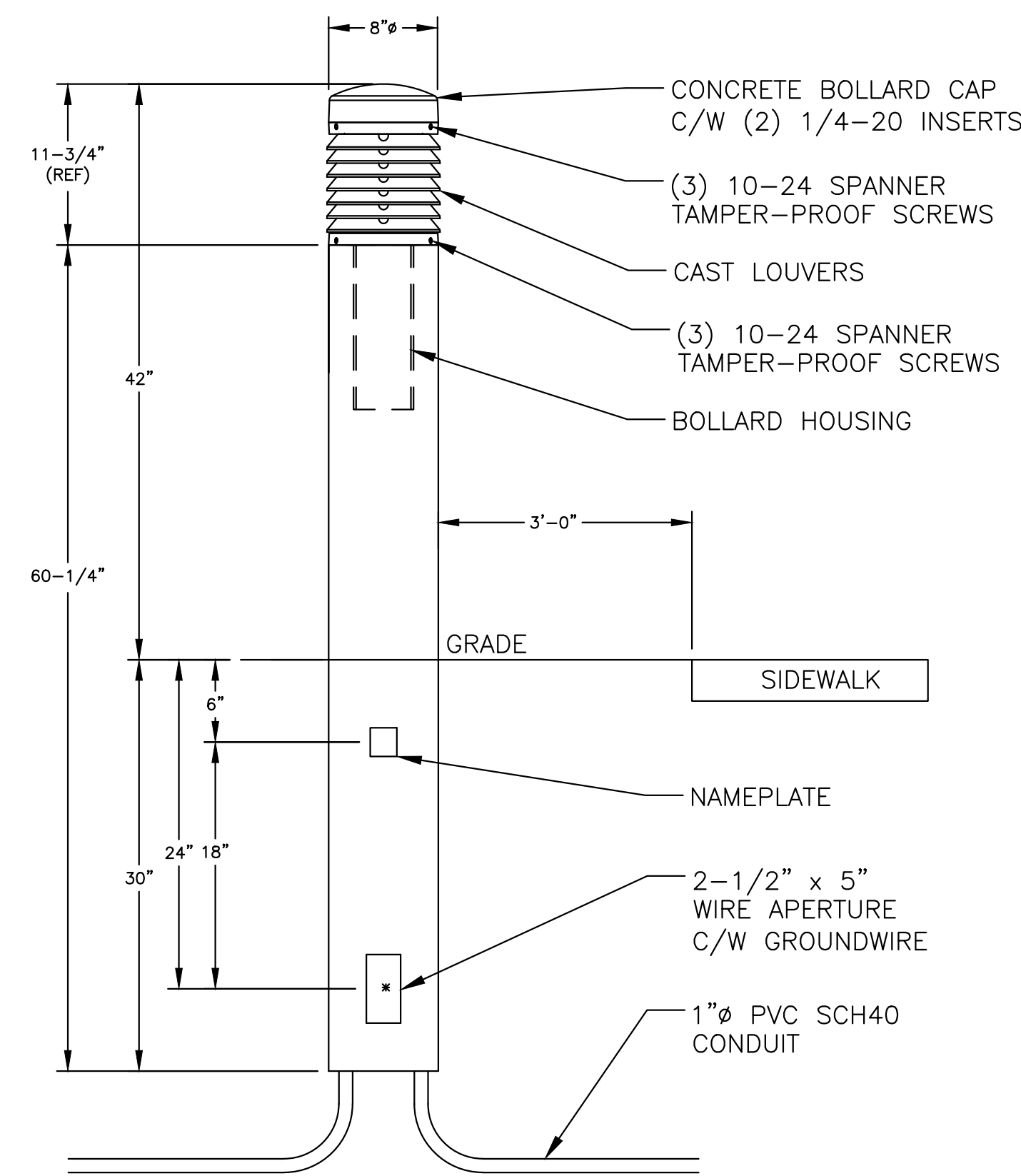


LIGHT POLE DETAIL

- NOTES:**
1. CABINET SHALL BE MILLBANK ELECTRICAL CABINET CP3B51215A22SSBKSP1
 2. CABINET SHALL BE BLACK IN COLOR
 3. COORDINATE WITH CITY OF PORTSMOUTH FOR APPROVAL OF CABINET.
 4. PAY ITEM INCLUDES ALL ITEMS WITHIN THE CONTROL BOX TO RENDER THE POWER CONTROL SYSTEM OPERATIONAL.
 5. SIMILAR CABINET LOCATED AT ROCK STREET PARK FOR REFERENCE.



ELECTRIC CONTROL BOX & BASE
SCALE: N.T.S

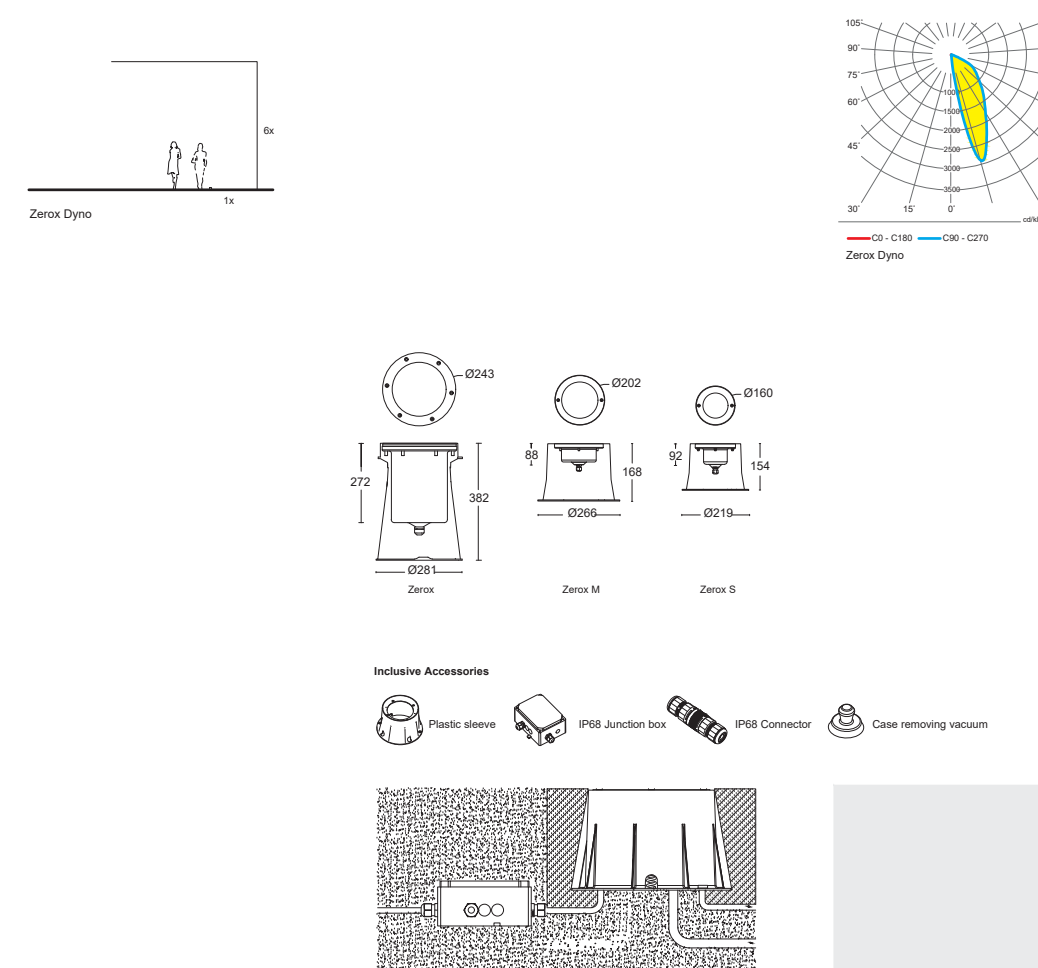


- NOTES:**
1. BOLLARD SHALL BE (NO EQUAL) KING LUMINAIRE - STRESSCRETE GROUP - SILHOUETTE SPUN CONCRETE: MODEL KLCS-T1AF-V-40(SLL)-4003-120:277-E11-DB-3K

LIGHTED BOLLARD DETAIL
SCALE: N.T.S

ZEROX DYNO TECHNICAL SPECIFICATIONS

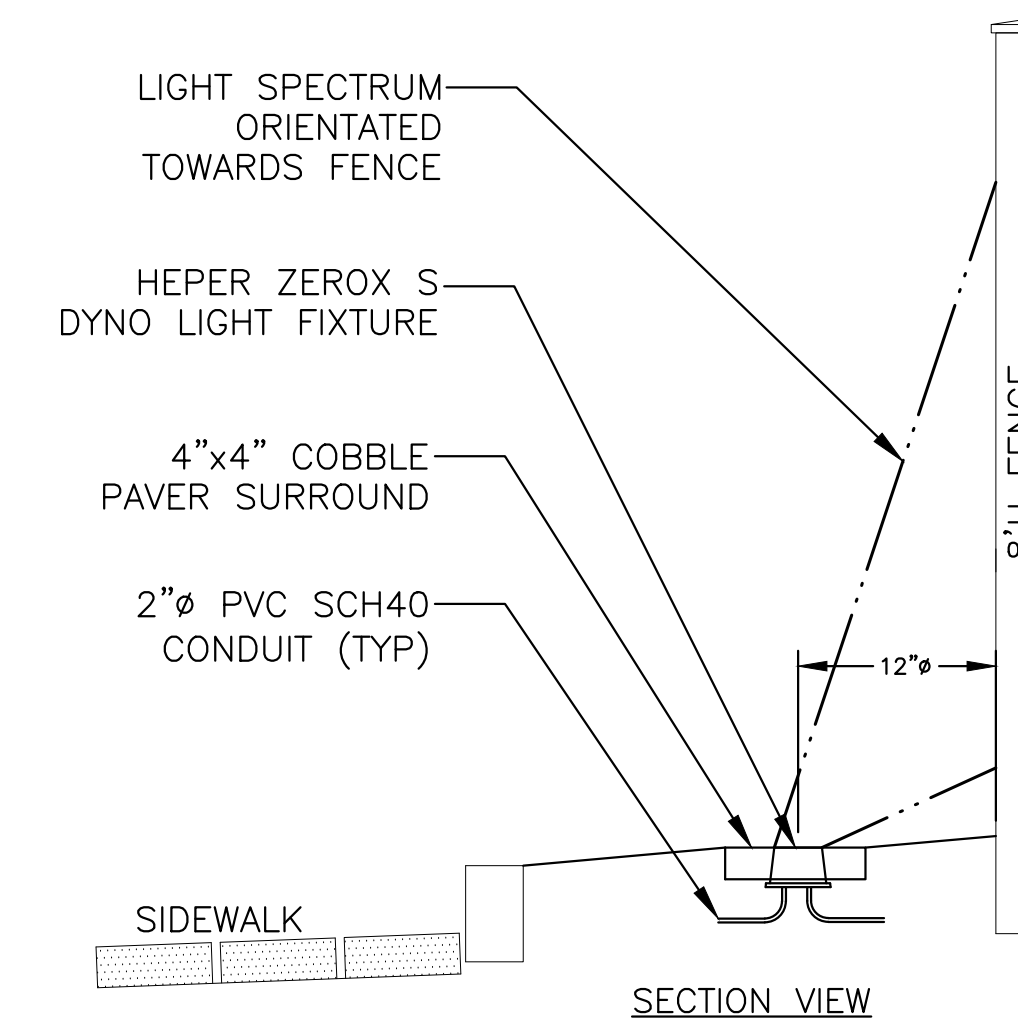
- GENERAL HIGHLIGHTS**
- Operating temperature: -40°C / +55°C
 - Easy installation with in-ground housing and IP rated connectors
 - Inclusive plastic housing (IP68 junction box and case removing via-MatAdam Elite 3)
 - In compliance with EN 60598, EN 62722
 - ENEC and UL pending
- OPTICAL PROPERTIES**
- Structured with Heger's DynoLED Module
 - Wall-washing optics
 - Lumen output (absolute photometry): 225lm - 950lm
 - Color temperature: 3000K, 4000K, 2700K (optional)
 - CRI > 70 (4000K), CRI > 80 (3000K)
 - Photobiological safety: Risk group 0
 - Lifetime: L90B50 > 118000h
- ELECTRICAL PROPERTIES**
- Drive current: 350mA
 - Excellent thermal management with optimized PCB design
 - Input Voltage: 200V - 240V, 100V - 277V (optional) at 60Hz / 60Hz
 - Control type: On/Off, 1-10V (optional), DALI (optional)
 - Power factor > 0.95
- BODY HOUSING & FINISH**
- Corrosion resistant stainless steel housing
 - Plastic sleeve
 - Ingress protection: IP67
 - Impact protection: IK09
- EXTRAS**
- Higher CRI LED chips
 - Different drive currents
 - Programmable driver for different scenarios



CODE	DESCRIPTION	POWER (350 mA)	LUMEN	COLOR TEMPERATURE
LR9016.521	Zerex S Dyno	4W	225lm - 240lm	3000K / 4000K
LR9017.522	Zerex M Dyno	8W	440lm - 475lm	3000K / 4000K
LR9005.524	Zerex Dyno	18W	885lm - 950lm	3000K / 4000K

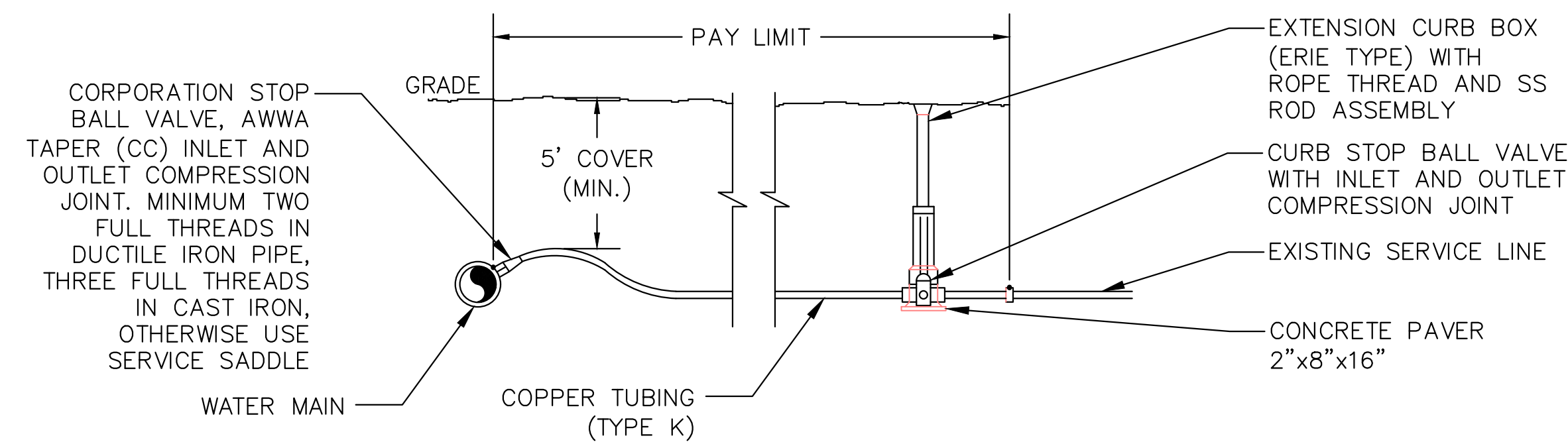
- NOTES:**
1. GROUND LEVEL LANDSCAPING UP-LIGHTING SHALL BE (NO EQUAL) HEPER ZEROX S DYNO.
 2. LIGHT SPECTRUM SHALL BE ORIENTATED TO FACE THE PERIMETER FENCING.
 3. PAVER SURROUND SHALL BE INCLUDED IN UP-LIGHT PAY ITEM.

LANDSCAPING LIGHTING
SCALE: N.T.S



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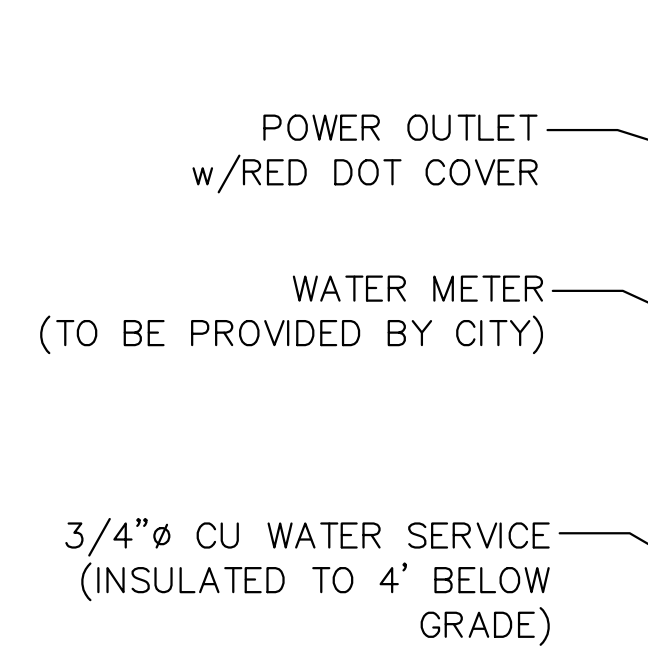
0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: DETAIL SHEET ELECTRICAL			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: C-203	
APPROVED BY: MRB			



NOTES:

- SERVICE SIZE SHALL BE EQUAL TO EXISTING, OR 1"Ø MINIMUM, WHICHEVER IS LARGER.
- PROVIDE NEW LINE USING CONTINUOUS LENGTHS OF COPPER. NO COUPLING ALLOWED IN ROADWAY WITHOUT APPROVAL OF ENGINEER.
- TAPS TO BE MADE AT APPROX. 2:00 AND 10:00.
- PROVIDE FOR SERVICE LINE CONTRACTION AND EXPANSION BY INSTALLING "S" IN SERVICE LINE NEAR MAIN.
- IF SERVICE IS INSTALLED WITH LESS THAN 5' COVER, INSULATE OVER LINE.
- REMOVE EXISTING CURB STOP AND REPLACE.
- CONNECT CURB STOP TO EXISTING SERVICE LINE AT PROPERTY LINE OR AT LOCATION APPROVED BY THE ENGINEER (NO COUPLING WITHOUT APPROVAL OF ENGINEER) AFTER PRESSURE TESTING AND DISINFECTION. CURB BOX SHALL BE SET IN THE SIDEWALK NEAR THE HOUSE SIDE UNLESS DIRECTED OTHERWISE.
- 2" SERVICE CONNECTIONS SHALL USE A STAINLESS STEEL SERVICE SADDLE.
- CONTRACTOR SHALL COORDINATE SERVICE INSTALLATIONS WITH HOMEOWNERS AND NOTIFY HOMEOWNERS IN THE EVENT SERVICE LINES TO THE BUILDINGS ARE GALVANIZED.

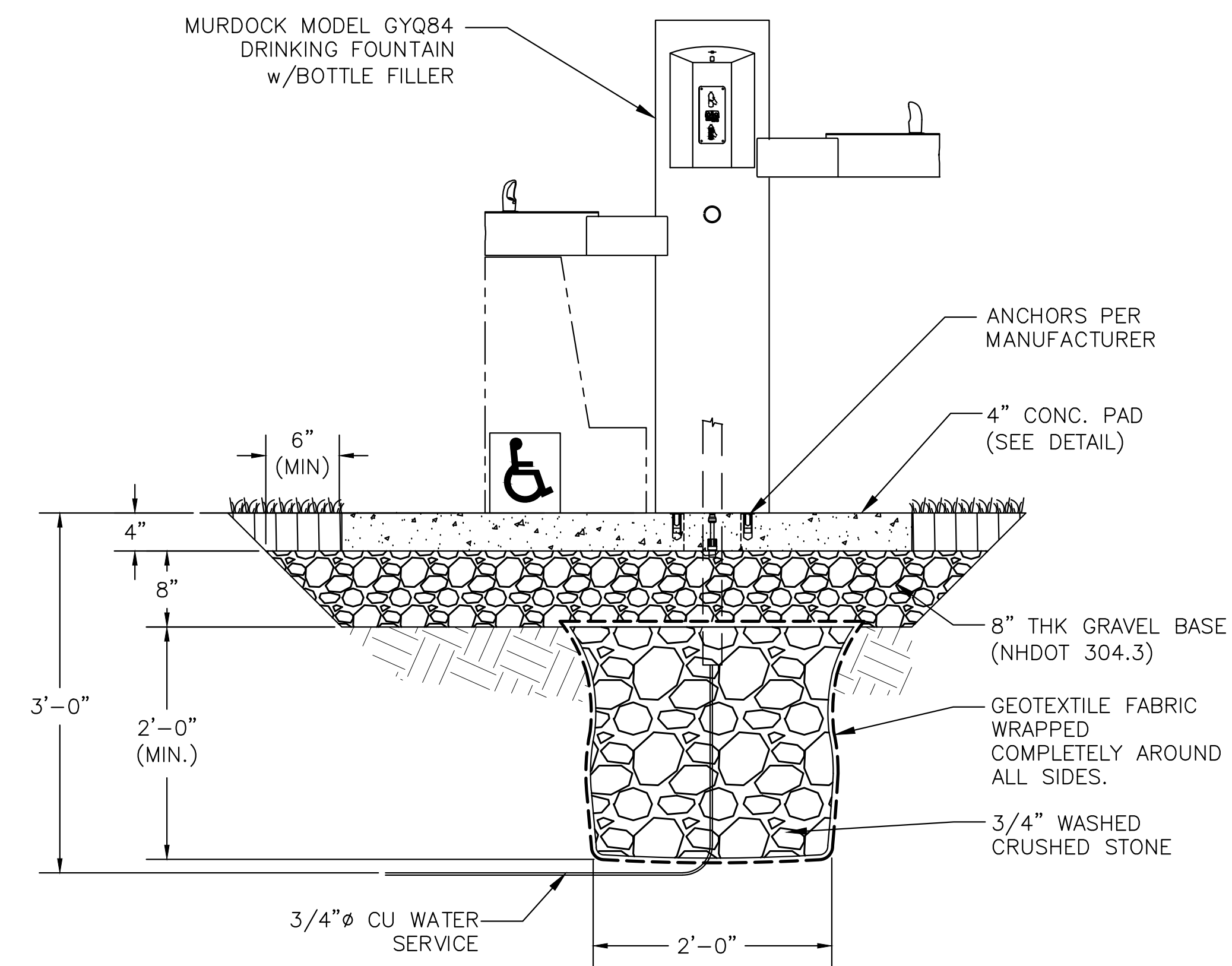
WATER SERVICE CONNECTION
SCALE: N.T.S



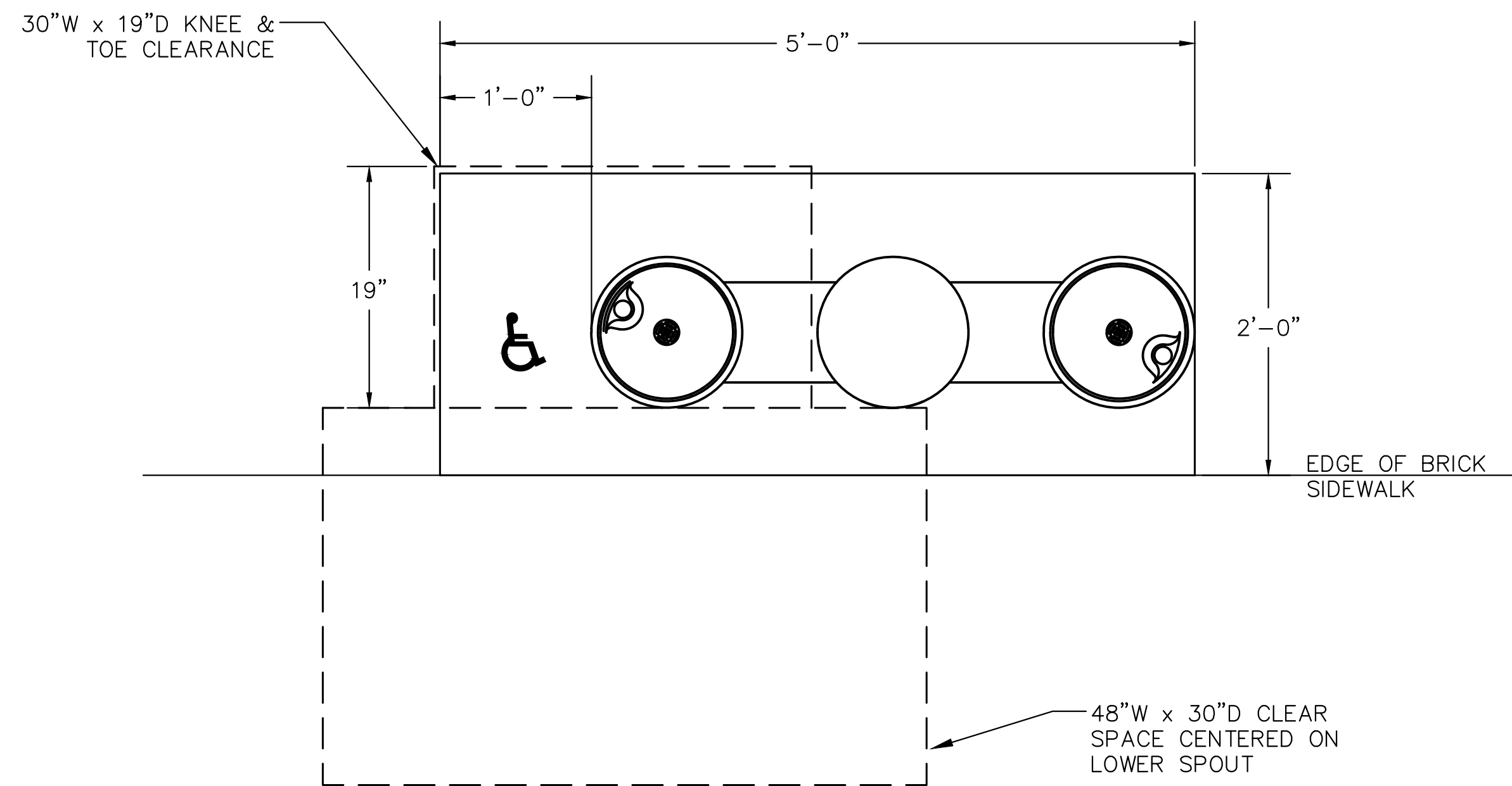
NOTES:

- ENCLOSURE SHALL BE HUBBELL HOT BOX FIBERGLASS FLIP TOP, CATALOG ID: LF013039028.
- ENCLOSURE SHALL BE INSULATED AND BEIGE IN COLOR.
- PAY ITEM INCLUDES ALL ITEMS WITHIN THE CONTROL BOX TO RENDER THE IRRIGATION SYSTEM OPERATIONAL.
- HOT BOX SHALL BE ANCHORED TO THE CONCRETE PAD AS SPECIFIED BY THE MANUFACTURER.
- SIMILAR CONTROL BOX AT ROCK STREET PARK FOR REFERENCE.

IRRIGATION CONTROL BOX
SCALE: N.T.S



DRINKING FOUNTAIN & PAD
SCALE: N.T.S



NOTES:

- DRINKING FOUNTAIN SHALL HAVE SATIN STAINLESS FINISH.
- COORDINATE w/ CITY OF PORTSMOUTH DPW.
- CLEARANCES SHOWN ARE FOR WHEELCHAIR (LOWER SPOUT) SIDE OF THE DRINKING FOUNTAIN.
- CONTRACTOR SHALL INSTALL PER 2010 ADA STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL.
- PVC SLEEVE SHALL EXTEND THROUGH CONCRETE SLAB, AND INTO THE FILTER FABRIC WRAPPED CRUSHED STONE SUB-BASE A MINIMUM OF 4\".



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0	ISSUED FOR BID	MRB	02/16/22
NO.	REVISIONS	APP'D	DATE
PROJECT: ALDRICH PARK IMPROVEMENTS			
TITLE: DETAIL SHEET WATER			
DRAWING SCALE: AS SHOWN		DATE: FEBRUARY 2022	
PROJECT NO.: 7230		SHEET: C-204	
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