



CITY OF WATERTOWN

Conservation Commission

The BOARD of the City of Watertown will hold a remote public meeting on Wednesday, January 19, 2022 at 7:00 p.m. in accordance with the Governor's Order Suspending Certain Provisions of the Open Meeting Law, G. L. c. 30A, § 20, relating to the 2020 COVID-19 emergency and to avoid group congregation, this meeting has only remote opportunities for participation with public access provided as follows:

CONSERVATION COMMISSION MEETING WEDNESDAY, JANUARY 19, 2022 AT 7:00 PM AGENDA

ACCESS INFORMATION:

- A. Due to scheduling issues, this meeting will not be televised.
- B. The Public may join the virtual meeting online: <https://watertown-ma.zoom.us/j/83311511199?pwd=M3hQUmlQSnYrcj0aFNMdWtPMklYdz09>
- C. Public may join the virtual meeting audio only by phone: (877) 853-5257 or (888) 475-4499 (Toll Free) and enter Webinar ID:833 1151 1199
- D. Public may comment through email: lschwab@watertown-ma.gov

-
- 1. Commission Discussion
 - A. Review of 90% Plan for Arsenal Park- Phase B

CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT PHASE B



LOCATION PLAN

90% DESIGN
NOT FOR CONSTRUCTION

JANUARY 2022

**CDM
Smith**
BOSTON, MASSACHUSETTS

Water

Environment

Transportation

Energy

Facilities

XREFs: [CDMS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\j\cdmsmith-ar02-pw.bentley.com\PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\EG001NFNT.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

SHEET	TITLE
G-1	GENERAL INDEX
G-2	GENERAL NOTES AND LEGEND
EX-1	EXISTING CONDITIONS PLAN I
EX-2	EXISTING CONDITIONS PLAN II
EX-3	EXISTING CONDITIONS PLAN III
EX-4	EXISTING CONDITIONS PLAN IV
EX-5	EXISTING CONDITIONS PLAN V
L-1	REMOVAL, EROSION, AND SEDIMENTATION CONTROL PLAN I
L-2	REMOVAL, EROSION, AND SEDIMENTATION CONTROL PLAN II
L-3	REMOVAL, EROSION, AND SEDIMENTATION CONTROL PLAN III
L-4	REMOVAL, EROSION, AND SEDIMENTATION CONTROL PLAN IV
L-5	REMOVAL, EROSION, AND SEDIMENTATION CONTROL PLAN V
L-6	LAYOUT AND MATERIALS PLAN I
L-7	LAYOUT AND MATERIALS PLAN II
L-8	LAYOUT AND MATERIALS PLAN III
L-9	LAYOUT AND MATERIALS PLAN IV
L-10	LAYOUT AND MATERIALS PLAN V
L-11	GRADING, DRAINAGE, AND UTILITIES PLAN I
L-12	GRADING, DRAINAGE, AND UTILITIES PLAN II
L-13	GRADING, DRAINAGE, AND UTILITIES PLAN III
L-14	GRADING, DRAINAGE, AND UTILITIES PLAN IV
L-15	GRADING, DRAINAGE, AND UTILITIES PLAN V
L-16	LANDSCAPING PLAN I
L-17	LANDSCAPING PLAN II
L-18	LANDSCAPING PLAN III
L-19	LANDSCAPING PLAN IV
L-20	LANDSCAPING PLAN V
D-1	DETAILS I
D-2	DETAILS II
D-3	DETAILS III
D-4	DETAILS IV
D-5	DETAILS V
D-6	DETAILS VI
D-7	DETAILS VII
D-8	DETAILS VIII
D-9	DETAILS IX
D-10	DETAILS X
A-1	RECTANGULAR AND HEXAGONAL GAZEBOS PLANS, SECTIONS, AND ELEVATIONS
A-2	PUBLIC RESTROOMS PLANS, SECTIONS AND ELEVATIONS
E-1	ELECTRICAL LEGEND
E-2	ELECTRICAL GENERAL NOTES
E-3	ELECTRICAL OVERALL SITE PLAN
E-4	ELECTRICAL ENLARGED SITE DEMOLITION PLAN I
E-5	ELECTRICAL ENLARGED SITE DEMOLITION PLAN II
E-6	ELECTRICAL BATHROOM DEMOLITION PLANS
E-7	ELECTRICAL ENLARGED SITE LIGHTING PLAN I
E-8	ELECTRICAL ENLARGED SITE LIGHTING PLAN II
E-9	LIGHTING FIXTURE SCHEDULE
E-10	ELECTRICAL ONE LINE DIAGRAM MODIFICATIONS
E-11	ELECTRICAL DETAILS

REV. NO.	DATE	DRWN	CHKD		REMARKS

DESIGNED BY: _____	WATKINS/GUILFOIL
DRAWN BY: _____	WATKINS/GUILFOIL
SHEET CHK'D BY: _____	G.HOWARD
CROSS CHK'D BY: _____	---
APPROVED BY: _____	G.HOWARD
DATE: _____	DECEMBER 2021

**CDM
Smith**

75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

GENERAL INDEX

SHEET NO.
G-1

PROJECT NO: 56318-253750
FILE NAME: G001NFIK
SHEET NO.
G-1

XREFs: [CDWS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\jcorneith-ar02-pw.bentley.com:PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NFIN.dwg
© 2001 CDM SMITH. ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY THROUGHOUT THE DURATION OF THE CONTRACT.
- CONTRACTOR SHALL COMPLY WITH ALL ASPECTS OF 220 CMR 99.00 (DIG SAFE LAW) AND MASSACHUSETTS CHAPTER 82 SECTION 40. CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS IN WRITING AND CALL DIGSAFE AT "811", 72 HOURS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL INSTALL ALL REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES, PRIOR TO UNDERTAKING SITE DEMOLITION AND REMOVALS.
- CONTRACTOR SHALL IDENTIFY AND PROTECT ALL ON-SITE STRUCTURES IDENTIFIED ON THE DRAWINGS TO BE RETAINED AND PROTECTED THROUGHOUT THE DURATION OF THE CONTRACT.
- CONTRACTOR SHALL EXCAVATE TOPSOIL AND SUBGRADE MATERIAL TO MIN. DEPTH OF 6-IN AND TO OTHER DEPTHS REQUIRED TO ACCOMMODATE NEW MATERIALS AND AGGREGATE LAYERS, AND DRAINAGE.
- NO WORK SHALL OCCUR OUTSIDE THE LIMIT OF WORK WITHOUT PRIOR APPROVAL BY THE ENGINEER OR OWNER. DAMAGE TO ANY SITE FEATURES TO BE RETAINED SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER IN A MANNER APPROVED BY THE ENGINEER AND OWNER.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL HAND EXCAVATE TEST PIT TO CONFIRM LOCATIONS OF ALL SUBSURFACE UTILITIES TO BE MAINTAINED IN AREA OF WORK. DAMAGE CAUSED BY CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- ALL AREAS WITHIN LIMIT OF WORK BUT OUTSIDE OF AREAS SPECIFICALLY CALLED OUT FOR REMOVAL AND DISPOSAL, SHALL BE COORDINATED WITH OTHER SHEETS FOR LIMITS OF DISTURBANCE.
- SEE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION RELATED TO ELECTRICAL REMOVAL AND DISPOSAL.
- SAW CUT EXISTING PAVEMENT AT LIMITS OF REMOVAL.

EROSION AND SEDIMENT CONTROL NOTES:

- REFER TO ALL RELEVANT EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS
- PRIOR TO ANY ACTIVITY ON THE SITE, THE CONTRACTOR SHALL PREPARE AND FILE SWPPP AND APPOINT A QUALIFIED INDIVIDUAL WHO SHALL BE RESPONSIBLE FOR MONITORING ALL ACTIVITIES TO ENSURE ENVIRONMENTAL COMPLIANCE. THIS INDIVIDUAL SHALL INSPECT AND DIRECT THE MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES ON SITE AND SHALL SUBMIT PROGRESS/MONITORING REPORTS AS REQUESTED TO THE ENGINEER AND OWNER.
- APPROPRIATE EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF ALL PHASES OF CONSTRUCTION, AND SHALL BE MAINTAINED DURING CONSTRUCTION. THE EROSION CONTROL DETAILS AND SPECIFICATIONS SHALL BE CONSIDERED THE MINIMUM STANDARDS REQUIRED FOR THIS PROJECT. ADDITIONAL OR MODIFIED EROSION CONTROL MEASURES MAY BE REQUIRED AT ANY TIME DURING CONSTRUCTION AT NO ADDITIONAL COST. THESE SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER NEEDED, AT WHICH TIME THEY SHALL BE REMOVED.
- CATCH BASIN FILTERS SHALL BE INSTALLED ON ALL CATCH BASIN STRUCTURES IN AREAS OF WORK AS APPROVED BY THE ENGINEER AND OWNER.
- A STABILIZED CONSTRUCTION ENTRANCE, TRACKING PAD OR OTHER APPROVED STABILIZATION METHOD SHALL BE CONSTRUCTED AT ALL ENTRANCE / EXIT POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO IMPERVIOUS AREAS AND OFF SITE. PREVENT OFF-SITE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED ROAD AND PATH SURFACES IN THE WORK AREA OR AFFECTED BY THE WORK SHALL BE SWEEP ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER OR OWNER.
- SITE DEWATERING DETAILS, INCLUDING PROPER SIZING OF PUMPS, CONTAINMENT AREAS AND TREATMENT METHODS FOR ALL DEWATERING OPERATIONS, SHALL BE SUBMITTED BY THE CONTRACTOR WHERE REQUIRED.
- AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS SHALL BE ON SITE AT ALL TIMES IN AN EASILY ACCESSIBLE LOCATION FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE STRAW WATTLES OR ANY OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
- THE AREA OF CONSTRUCTION SHALL REMAIN IN A STABLE CONDITION AT THE CLOSE OF EACH CONSTRUCTION DAY. EROSION CONTROLS WILL BE INSPECTED AT THIS TIME, AND REPAIRED, REINFORCED OR REPLACED AS NECESSARY.
- ONCE BEGUN, GRADING AND CONSTRUCTION SHALL CONTINUE IN AN EXPEDITIOUS MANNER TO MINIMIZE THE OPPORTUNITY FOR EROSION.
- SODDED AREAS AND SEEDING UNDERTAKEN AS SPECIFIED IN SECTION 329200 SHALL BE UNDERTAKEN IN THE SPRING, EARLY SUMMER OR EARLY FALL. WHEN SEEDING IS FOUND TO BE IMPRACTICAL, APPROPRIATE TEMPORARY STABILIZATION SHALL BE APPLIED. PERMANENT SEEDING MAY TAKE PLACE DURING THE SUMMER, ONLY IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
- THE OWNER RESERVES THE RIGHT TO IMPOSE ADDITIONAL CONDITIONS ON PORTIONS OF THIS PROJECT TO MITIGATE ANY IMPACTS WHICH COULD RESULT FROM SITE EROSION, OR ANY NOTICEABLE DEGRADATION OF SURFACE WATER QUALITY DISCHARGING FROM THE SITE.
- EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED BEFORE AND AFTER EACH PREDICTED STORM EVENT AND REPAIRED OR REPLACED AS NECESSARY. ANY ACCUMULATED SEDIMENT ADJACENT TO THE BARRIERS SHALL BE REMOVED. INSPECT INLET PROTECTION AND SEDIMENTATION BARRIERS WEEKLY AND AFTER ALL STORM EVENTS OF ½ INCH OR GREATER AND REPAIR AS NEEDED AND AS DIRECTED BY THE ENGINEER.
- ALL AREAS OUTSIDE THE LIMIT OF WORK SHALL BE PROTECTED AT ALL TIMES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.
- UPON COMPLETION OF CONSTRUCTION ACTIVITIES INSPECT AND CLEAN OUT DRAINAGE SYSTEMS TO THE SATISFACTION OF THE ENGINEER. ALL EXISTING PAVEMENT AND WALKWAYS TO BE PROTECTED THAT ARE DISTURBED BY THIS CONTRACT SHALL BE PROMPTLY REPAIRED IN A MANNER APPROVED BY ENGINEER IN ACCORDANCE WITH SPECIFICATIONS
- UTILIZE BEST MANAGEMENT PRACTICES AND COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS AS RELATED TO SEDIMENT AND EROSION CONTROL. MASSACHUSETTS EROSION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS SHALL BE FOLLOWED FOR ALL WORK.

SITE ACCESS NOTES:

- CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL CONSTRUCTION ACCESS ROADS AND WORK AREAS DURING CONSTRUCTION OF THE PROJECT IN ORDER TO MAINTAIN SAFE AND OPERABLE WORKING CONDITIONS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING PERSONNEL, MATERIALS, AND EQUIPMENT CAN TRAVEL SAFELY OVER ANY OF THE PROJECT RELATED ACCESS ROADS AND TRAVEL WAYS TO MEET ALL CONSTRUCTION REQUIREMENTS. IF THE CONTRACTOR CANNOT PROVIDE SAFE AND ADEQUATE ACCESS VIA THE SITE ACCESS ROUTE SHOWN, THEN AN ALTERNATIVE ROUTE AND/OR METHOD FOR COMPLETING CONSTRUCTION SHALL BE SUBMITTED FOR APPROVAL BY OWNER OR OWNERS REPRESENTATIVE.

GRADING AND EXCAVATION NOTES:

- CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
- CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
- NO SOIL SHALL BE REMOVED FROM THE SITE. SOIL EXCAVATED FOR INSTALLATION OF THE STORMWATER DETENTION STRUCTURE, FOUNDATIONS, UTILITIES, PIPING AND MISCELLANEOUS SUBGRADE SOILS SHALL UTILIZED IN THE NEW PROMONTORY BERM AREA LOCATED BELOW THE TOP 2-FT FROM FINISHED GRADE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
- TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
- IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
- SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
- REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

SITE PAVING NOTES:

- CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT FRESHLY POURED CONCRETE SLABS DO NOT BECOME VANDALIZED DURING THE CURING PROCESS. ANY SLABS THAT ARE VANDALIZED SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONCRETE COLOR, EXPANSION JOINT, AND SCORING LOCATIONS AND PATTERNS ARE SHOWN TO DEMONSTRATE DESIGN INTENT. CONTRACTOR SHALL SUBMIT A CONCRETE COLOR, JOINTING, AND SCORING SHOP SUBMITAL FOR APPROVAL PRIOR TO CONSTRUCTION. FINAL FORMWORK SHALL BE APPROVED IN THE FIELD BY OWNER OR ENGINEER PRIOR TO POURING.
- EXPANSION JOINTS TO BE LOCATED BETWEEN POURS OF TWO DIFFERENT COLORS.
- EXPANSION JOINTS SHALL BE LOCATED BETWEEN POURS OF TWO DIFFERENT MATERIALS, INCLUDING, BUT NOT LIMITED TO FOOTINGS/FOUNDATIONS, PRECAST CONCRETE CURBS/WALLS, CONCRETE PADS, MANHOLES, AND CATCH BASINS.

SITE LAYOUT NOTES:

- PROJECT LAYOUT IS BASED ON BENCH MARKS AND HORIZONTAL CONTROL POINTS AS SHOWN ON THIS SHEET AND EXISTING CONDITIONS PLAN SHEETS EX-1, EX-2, EX-3, EX-4, AND EX-5.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT FRESHLY POURED CONCRETE SLABS DO NOT BECOME VANDALIZED DURING THE CURING PROCESS. ANY SLABS THAT ARE VANDALIZED SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

LANDSCAPE NOTES:

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND SIDEWALK CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- A 3-INCH DEEP SHREDDED PINE BARK SAUCER SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, AS SHOWN ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE LANDSCAPE ARCHITECT.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND PLANT LABELS PRIOR TO BIDDING.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SHALL BE MAINTAINED AND GUARANTEED AS SPECIFIED.
- THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

PLANT MAINTENANCE NOTES:

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.

SURVEY NOTES:

- COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/CORS)
- ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- THE EXISTING SITE CONDITIONS SURVEY WAS PREPARED ON JULY 19, 2016, REVISED ON NOVEMBER 14, 2018, BY FELDMAN SURVEYORS, PROFESSIONAL LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119.
- SUBSURFACE UTILITY LINES, AS SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. FELDMAN ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40.) CALL "DIG SAFE" 1 (888) 344-7233 HTTP://WWW.DIGSAFE.COM
- PARCEL LINES AND ASSESSOR INFORMATION WERE COMPILED FROM INFORMATION PROVIDED BY THE TOWN OF WATERTOWN ASSESSOR'S OFFICE.

SURVEY LEGEND:

	OBSERVATION WELL		BIT
	SEWER MANHOLE		CONC
	DRAIN MANHOLE		BRK
	ELECTRIC MANHOLE		CW
	WATER MANHOLE		BRW
	TELEPHONE MANHOLE		NTS
	MANHOLE		M&S
	HYDRANT		SD
	WATER SHUT OFF		BR
	GAS SHUT OFF		HVAC
	CATCH BASIN		POB
	CONTROL BOX		CO
	TRAFFIC SIGNAL		SO
	LIGHT POLE		PLTR
	ELECTRIC HANDHOLE		P&R
	BOLLARD		COL
	SIGN		GR
	AREA DRAIN		WL
	FIRE ALARM		LSA
	ROOF DRAIN		R
	STAND PIPE/SIAMESE CONNECTION		FFE
	GAS METER		R
	ELECTRIC METER		I
	AIR CONDITIONING UNIT		TT
	HANDICAP PARKING SPACE		TR
	DECIDUOUS TREE		TOVP
	CONIFEROUS TREE		BOT
	HANDICAP RAMP		INACC
	GATE POST		NVP
	ELECTRIC CONTROL BOX		TOW
	NOW OR FORMERLY		TOD
	FOUND		FOW
	RECORD		EDGE OF WOODS
	CALCULATED		GUARD RAIL
	ENTRANCE		METAL FENCE
	FINISH FLOOR ELEVATION		SEWER
	VERTICAL GRANITE CURB		DRAIN
	SLOPED GRANITE CURB		WATER
	CONCRETE CURB		GAS
	BIT. CONC. BERM		ELECTRIC
	CHAIN LINK FENCE		TELEPHONE
	STOCKADE FENCE		OVERHEAD WIRES
	WROUGHT IRON FENCE		DIGSAFE ELECTRIC
			DIGSAFE TELEPHONE

REV.	DATE	DRWN	CHKD		REMARKS

DESIGNED BY:	WATKINS/GUILFOIL
DRAWN BY:	WATKINS/GUILFOIL
SHEET CHK'D BY:	G.HOWARD
GROSS CHK'D BY:	---
APPROVED BY:	G.HOWARD
DATE:	DECEMBER 2021



75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

GENERAL NOTES AND LEGEND
SHEET NO.
G-2

PROJECT NO: 56318-253750
FILE NAME: G002GNLG
SHEET NO.
G-2

XREFs: [CDWS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\censmith-cad2-pw.bentley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\0001NINT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

SURVEY LEGEND:

- OBSERVATION WELL
- SEWER MANHOLE
- DRAIN MANHOLE
- ELECTRIC MANHOLE
- WATER MANHOLE
- TELEPHONE MANHOLE
- MANHOLE
- HYDRANT
- WATER SHUT OFF
- GAS SHUT OFF
- CATCH BASIN
- CONTROL BOX
- TRAFFIC SIGNAL
- LIGHT POLE
- ELECTRIC HANDHOLE

- HANDICAP RAMP
- GATE POST
- ELECTRIC CONTROL BOX
- N/F NOW OR FORMERLY
- FOUND
- RECORD
- CALC CALCULATED
- ENT ENTRANCE
- FFE FINISH FLOOR ELEVATION
- VGC VERTICAL GRANITE CURB
- SOC SLOPED GRANITE CURB
- CC CONCRETE CURB
- BB BIT. CONC. BERM
- CLF CHAIN LINK FENCE
- STF STOCKADE FENCE

- P&R POST & ROPE FENCE
- COL COLUMN
- GR GUARDRAIL
- WL WALK LIGHT
- LSA LANDSCAPING
- R RIM ELEVATION
- FFE FINISHED FLOOR ELEVATION
- R RIM ELEVATION
- I INVERT ELEVATION
- TT TOP OF TRAP
- TR CENTERLINE OF TROUGH
- TOVP TOP OF VERTICAL PIPE
- BOT BOTTOM ELEVATION
- INACC INACCESSIBLE
- NVP NO VISIBLE PIPES

- BOLLARD
- SIGN
- AREA DRAIN
- FIRE ALARM
- ROOF DRAIN
- STAND PIPE/SIAMESE CONNECTION
- GAS METER
- ELECTRIC METER
- AIR CONDITIONING UNIT
- HANDICAP PARKING SPACE
- DECIDUOUS TREE
- CONIFEROUS TREE

- WIF WROUGHT IRON FENCE
- BIT BITUMINOUS
- CONC CONCRETE
- BRK BRICK
- CW CONCRETE WALL
- BRW BRICK WALL
- NTS NOT TO SCALE
- M&S MULCH & SHRUBS
- SD STRIP DRAIN
- BR BIKE RACK
- HVAC AIR CONDITIONING UNIT
- POB POINT OF BEGINNING
- CO CLEAN OUT
- SO SHUT OFF (UNKNOWN)
- PLTR PLANTER

- TOW TOP OF WATER
- TOD TOP OF DEBRIS
- FW FULL OF WATER
- EDGE OF WOODS
- GUARD RAIL
- METAL FENCE
- SEWER
- DRAIN
- WATER
- GAS
- ELECTRIC
- TELEPHONE
- OVERHEAD WIRES
- DIGSAFE ELECTRIC
- DIGSAFE TELEPHONE

SURVEY NOTES:

- COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/CORS)
- ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- THE EXISTING SITE CONDITIONS SURVEY WAS PREPARED ON JULY 19, 2016, REVISED ON NOVEMBER 14, 2018, BY FELDMAN SURVEYORS, PROFESSIONAL LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119.
- SUBSURFACE UTILITY LINES, AS SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. FELDMAN ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40.) CALL "DIG SAFE" 1 (888) 344-7233 HTTP://WWW.DIGSAFE.COM
- PARCEL LINES AND ASSESSOR INFORMATION WERE COMPILED FROM INFORMATION PROVIDED BY THE TOWN OF WATERTOWN ASSESSOR'S OFFICE.

1" = 20'
10 0 20

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: G.HOWARD
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

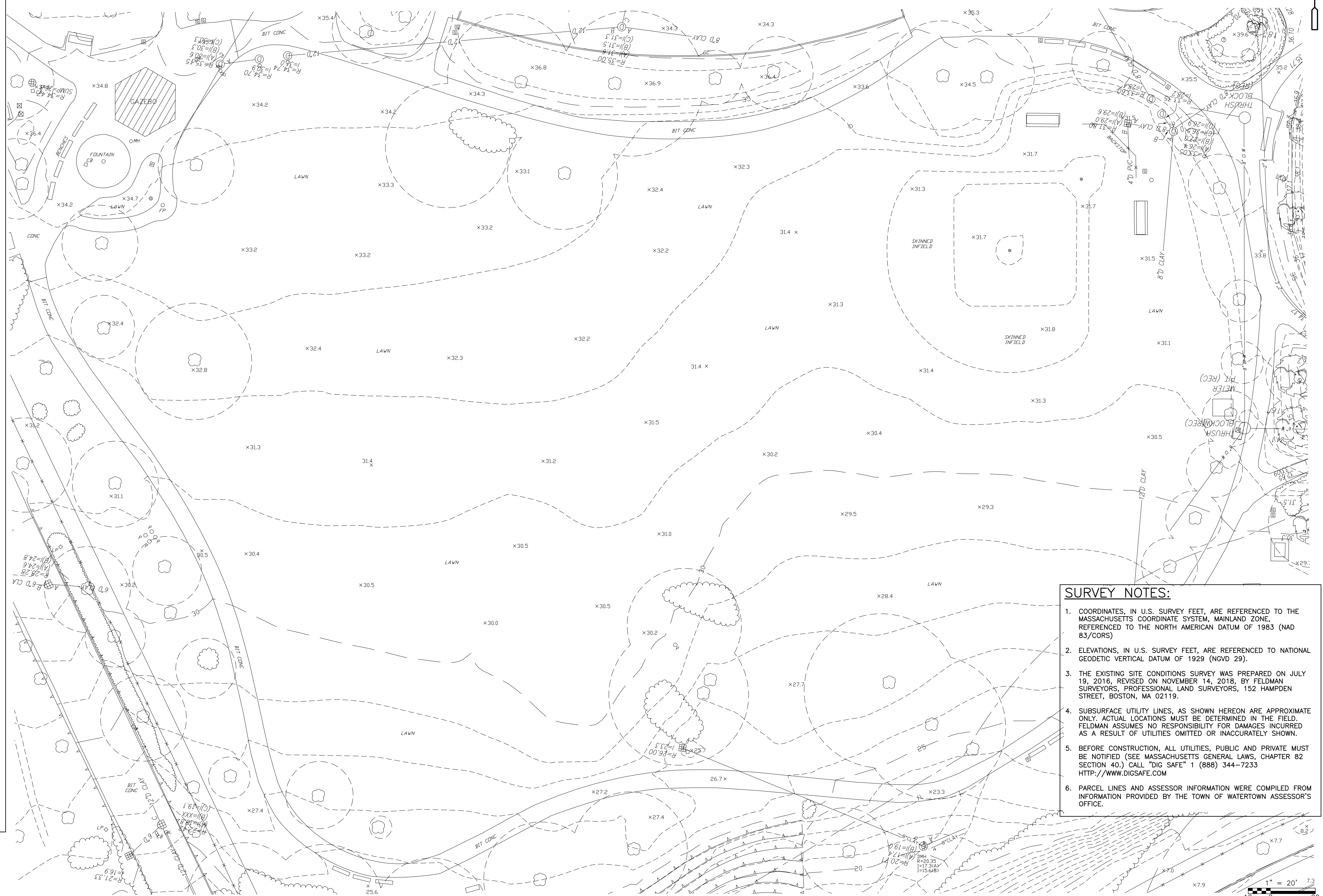
CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

EXISTING CONDITIONS PLAN III

PROJECT NO. 56318-253750
FILE NAME: C001EXPL
SHEET NO.
EX-3

 OBSERVATION WELL
 SEWER MANHOLE
 DRAIN MANHOLE
 ELECTRIC MANHOLE
 WATER MANHOLE
 TELEPHONE MANHOLE
 MANHOLE
 HYDRANT
 WATER SHUT OFF
 GAS SHUT OFF
 CATCH BASIN
 CONTROL BOX
 TRAFFIC SIGNAL
 LIGHT POLE
 ELECTRIC HANDHOLE
 BOLLARD
 SIGN
 AREA DRAIN
 FIRE ALARM
 ROOF DRAIN
 STAND PIPE/SIAMESE CONNECTION
 GAS METER
 ELECTRIC METER
 AIR CONDITIONING UNIT
 HANDICAP PARKING SPACE
 DECIDUOUS TREE
 CONIFEROUS TREE
 HANDICAP RAMP
 GATE POST
 ELECTRIC CONTROL BOX
 NOW OR FORMERLY
 FOUND
 RECORD
 CALCULATED
 ENTRANCE
 FINISH FLOOR ELEVATION
 VERTICAL GRANITE CURB
 SLOPED GRANITE CURB
 CONCRETE CURB
 BIT, CONC. BERM
 CHAIN LINK FENCE
 STOCKADE FENCE
 WROUGHT IRON FENCE
 BITUMINOUS
 CONCRETE
 BRICK
 CONCRETE WALL
 BRICK WALL
 NOT TO SCALE
 MULCH & SHRUBS
 STRIP DRAIN
 BIKE RACK
 AIR CONDITIONING UNIT
 POINT OF BEGINNING
 CLEAN OUT
 SHUT OFF (UNKNOWN)
 PLANTER
 POST & ROPE FENCE
 COLUMN
 GUARDRAIL
 WALK LIGHT
 LANDSCAPING
 RIM ELEVATION
 FINISHED FLOOR ELEVATION
 RIM ELEVATION
 INVERT ELEVATION
 TOP OF TRAP
 CENTERLINE OF TROUGH
 TOP OF VERTICAL PIPE
 BOTTOM ELEVATION
 INACCESSIBLE
 NO VISIBLE PIPES
 TOP OF WATER
 TOP OF DEBRIS
 FULL OF WATER
 EDGE OF WOODS
 GUARD RAIL
 METAL FENCE
 SEWER
 DRAIN
 WATER
 GAS
 ELECTRIC
 TELEPHONE
 OVERHEAD WIRES
 DIGSAFE ELECTRIC
 DIGSAFE TELEPHONE



1. COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/CORS)
2. ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. THE EXISTING SITE CONDITIONS SURVEY WAS PREPARED ON JULY 19, 2016, REVISED ON NOVEMBER 14, 2018, BY FELDMAN SURVEYORS, PROFESSIONAL LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119.
4. SUBSURFACE UTILITY LINES, AS SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. FELDMAN ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCUATELY SHOWN.
5. BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40.) CALL "DIG SAFE" 1 (888) 344-7233
[HTTP://WWW.DIGSAFE.COM](http://www.digsafe.com)
6. PARCEL LINES AND ASSESSOR INFORMATION WERE COMPILED FROM INFORMATION PROVIDED BY THE TOWN OF WATERTOWN ASSESSOR'S OFFICE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

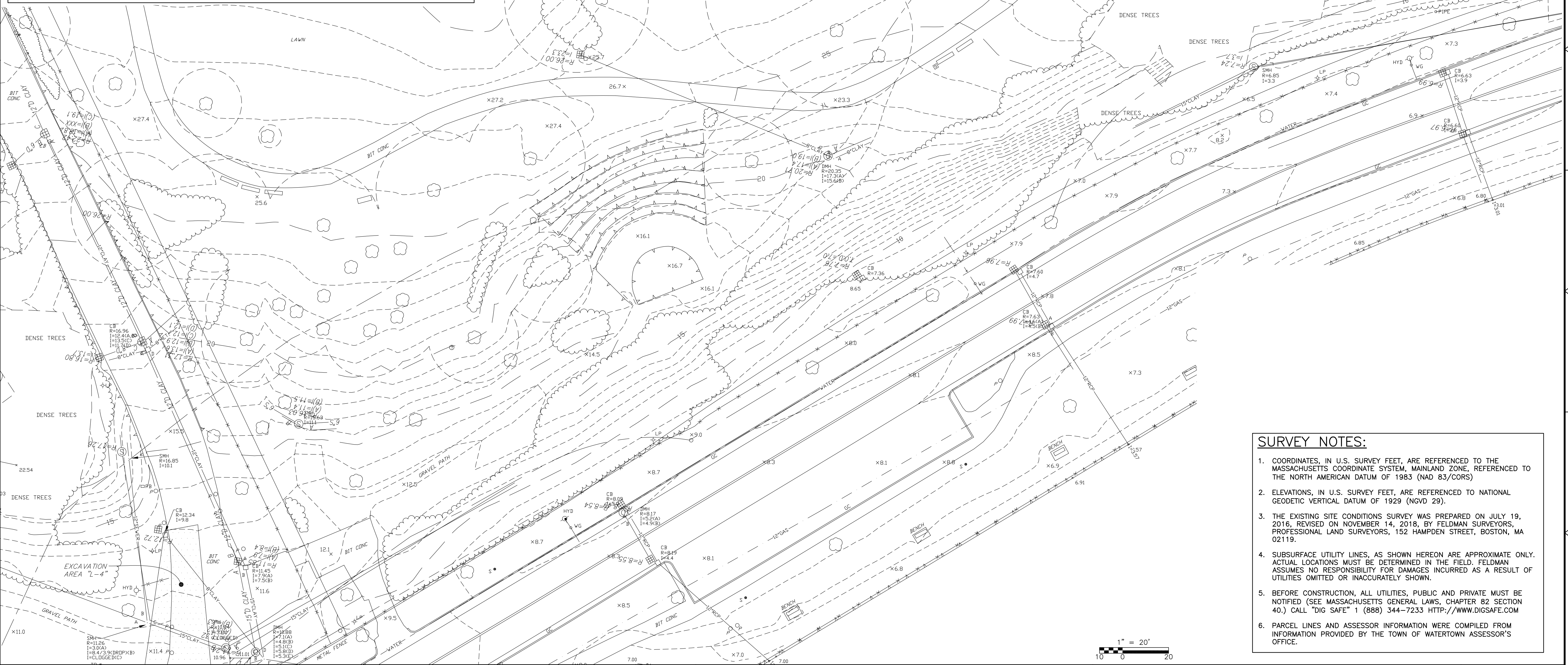
CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

EXISTING CONDITIONS PLAN IV

PROJECT NO. 56318-253750
FILE NAME: C001EXPL
SHEET NO.
EX-4

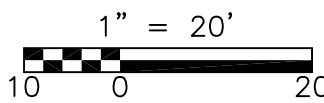
SURVEY LEGEND:

	OBSERVATION WELL		HANDICAP RAMP		POST & ROPE FENCE
	SEWER MANHOLE		GATE POST		COLUMN
	DRAIN MANHOLE		ELECTRIC CONTROL BOX		GUARDRAIL
	ELECTRIC MANHOLE		NOW OR FORMERLY		WALK LIGHT
	WATER MANHOLE		FOUND		LANDSCAPING
	TELEPHONE MANHOLE		RECORD		RIM ELEVATION
	MANHOLE		CALCULATED		RIM ELEVATION
	HYDRANT		ENTRANCE		INVERT ELEVATION
	WATER SHUT OFF		FINISH FLOOR ELEVATION		TOP OF TRAP
	GAS SHUT OFF		VERTICAL GRANITE CURB		CENTERLINE OF TROUGH
	CATCH BASIN		SLOPED GRANITE CURB		TOP OF VERTICAL PIPE
	CONTROL BOX		CONCRETE CURB		BOTTOM ELEVATION
	TRAFFIC SIGNAL		BIT. CONC. BERM		INACCESSIBLE
	LIGHT POLE		CHAIN LINK FENCE		NO VISIBLE PIPES
	ELECTRIC HANDHOLE		STOCKADE FENCE		TOP OF WATER
	BOLLARD		WROUGHT IRON FENCE		TOP OF DEBRIS
	SIGN		BITUMINOUS		FULL OF WATER
	AREA DRAIN		CONCRETE		EDGE OF WOODS
	FIRE ALARM		BRICK		GUARD RAIL
	ROOF DRAIN		CONCRETE WALL		METAL FENCE
	STAND PIPE/SIAMESE CONNECTION		BRICK WALL		SEWER
	GAS METER		NOT TO SCALE		DRAIN
	ELECTRIC METER		MULCH & SHRUBS		WATER
	AIR CONDITIONING UNIT		STRIP DRAIN		GAS
	HANDICAP PARKING SPACE		BIKE RACK		ELECTRIC
	DECIDUOUS TREE		AIR CONDITIONING UNIT		TELEPHONE
	CONIFEROUS TREE		POINT OF BEGINNING		OVERHEAD WIRES
			CLEAN OUT		DIGSAFE ELECTRIC
			SHUT OFF (UNKNOWN)		DIGSAFE TELEPHONE
			PLANTER		



SURVEY NOTES:

- COORDINATES, IN U.S. SURVEY FEET, ARE REFERENCED TO THE MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/COORS)
- ELEVATIONS, IN U.S. SURVEY FEET, ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- THE EXISTING SITE CONDITIONS SURVEY WAS PREPARED ON JULY 19, 2016, REVISED ON NOVEMBER 14, 2018, BY FELDMAN SURVEYORS, PROFESSIONAL LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119.
- SUBSURFACE UTILITY LINES, AS SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. FELDMAN ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40.) CALL "DIG SAFE" 1 (888) 344-7233 HTTP://WWW.DIGSAFE.COM
- PARCEL LINES AND ASSESSOR INFORMATION WERE COMPILED FROM INFORMATION PROVIDED BY THE TOWN OF WATERTOWN ASSESSOR'S OFFICE.



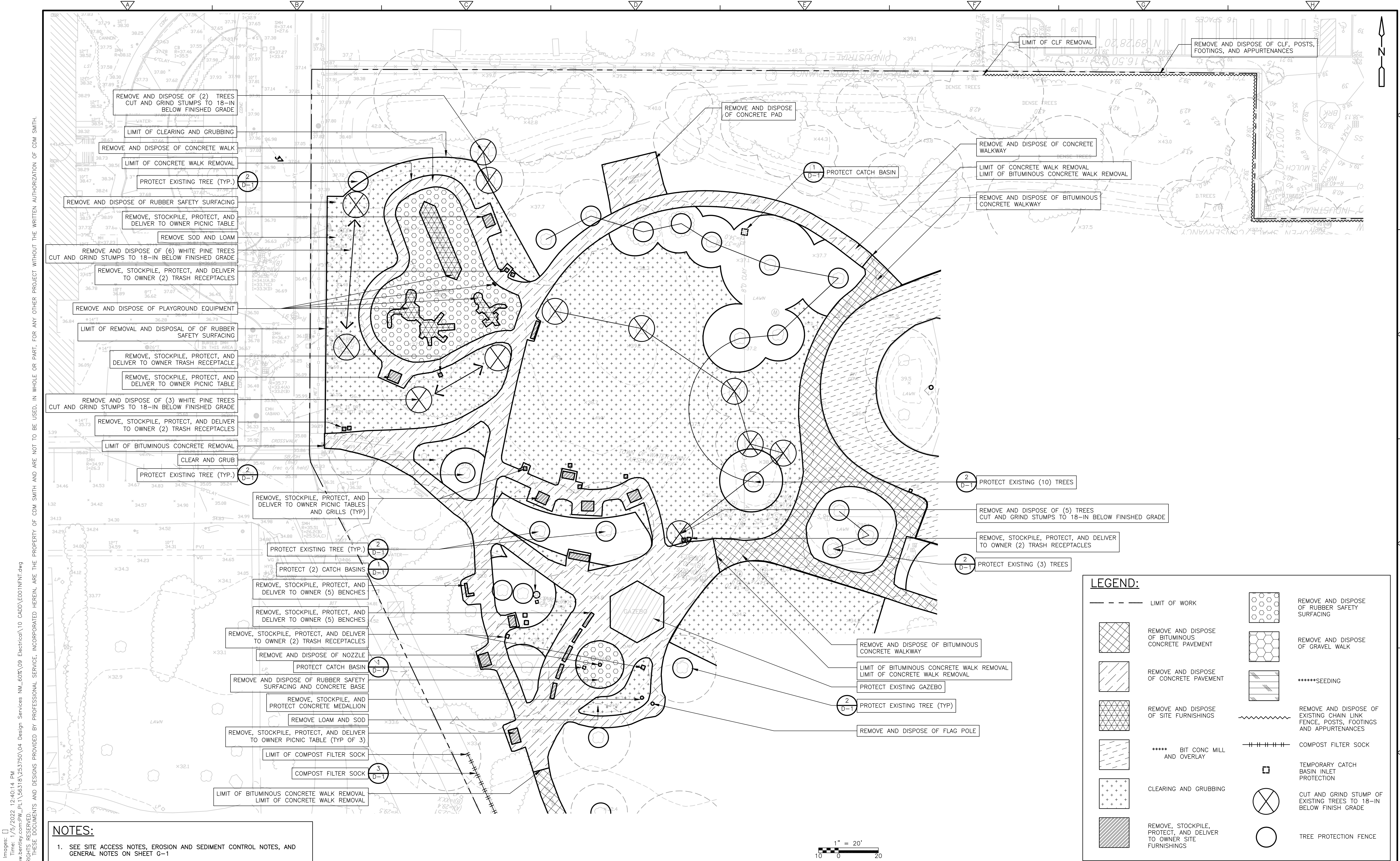
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: G.HOWARD
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

EXISTING CONDITIONS PLAN V

PROJECT NO: 56318-253750
FILE NAME: C001EXPL
SHEET NO.
EX-5



NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

LEGEND:

---	LIMIT OF WORK		REMOVE AND DISPOSE OF RUBBER SAFETY SURFACING
	REMOVE AND DISPOSE OF BITUMINOUS CONCRETE PAVEMENT		REMOVE AND DISPOSE OF GRAVEL WALK
	REMOVE AND DISPOSE OF CONCRETE PAVEMENT		*****SEEDING
	REMOVE AND DISPOSE OF SITE FURNISHINGS		REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS AND APPURTENANCES
	***** BIT CONC MILL AND OVERLAY		COMPOST FILTER SOCK
	CLEARING AND GRUBBING		TEMPORARY CATCH BASIN INLET PROTECTION
	REMOVE, STOCKPILE, PROTECT, AND DELIVER TO OWNER SITE FURNISHINGS		CUT AND GRIND STUMP OF EXISTING TREES TO 18-IN BELOW FINISH GRADE
			TREE PROTECTION FENCE

XREFs: [CDWS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\csm\smith-cs02-pw\entley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 CAD\01\001\INFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT

PHASE B

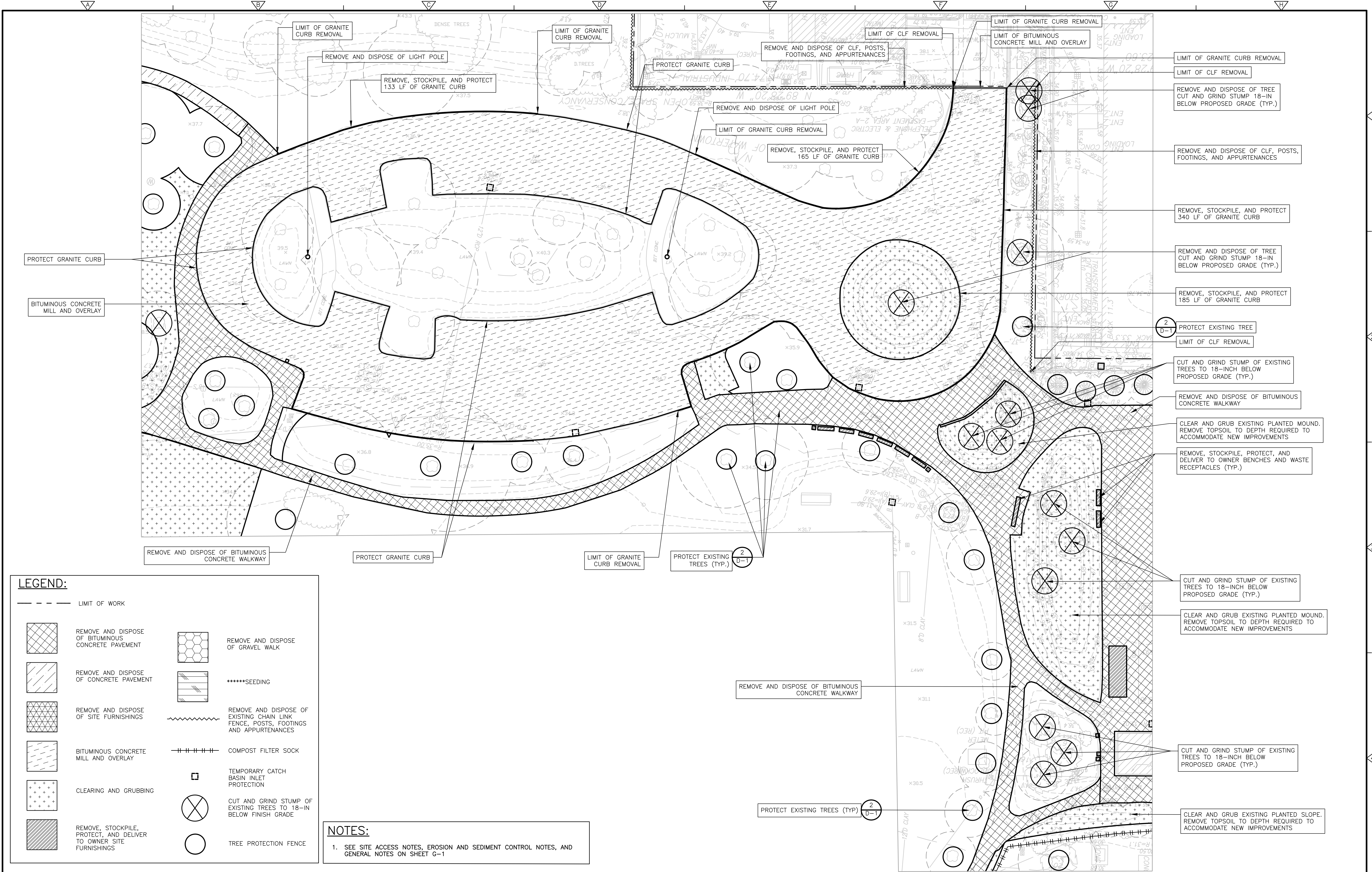
DEMOLITION, REMOVALS, EROSION, AND SEDIMENTATION CONTROL PLAN I

SHEET NO.

L-1

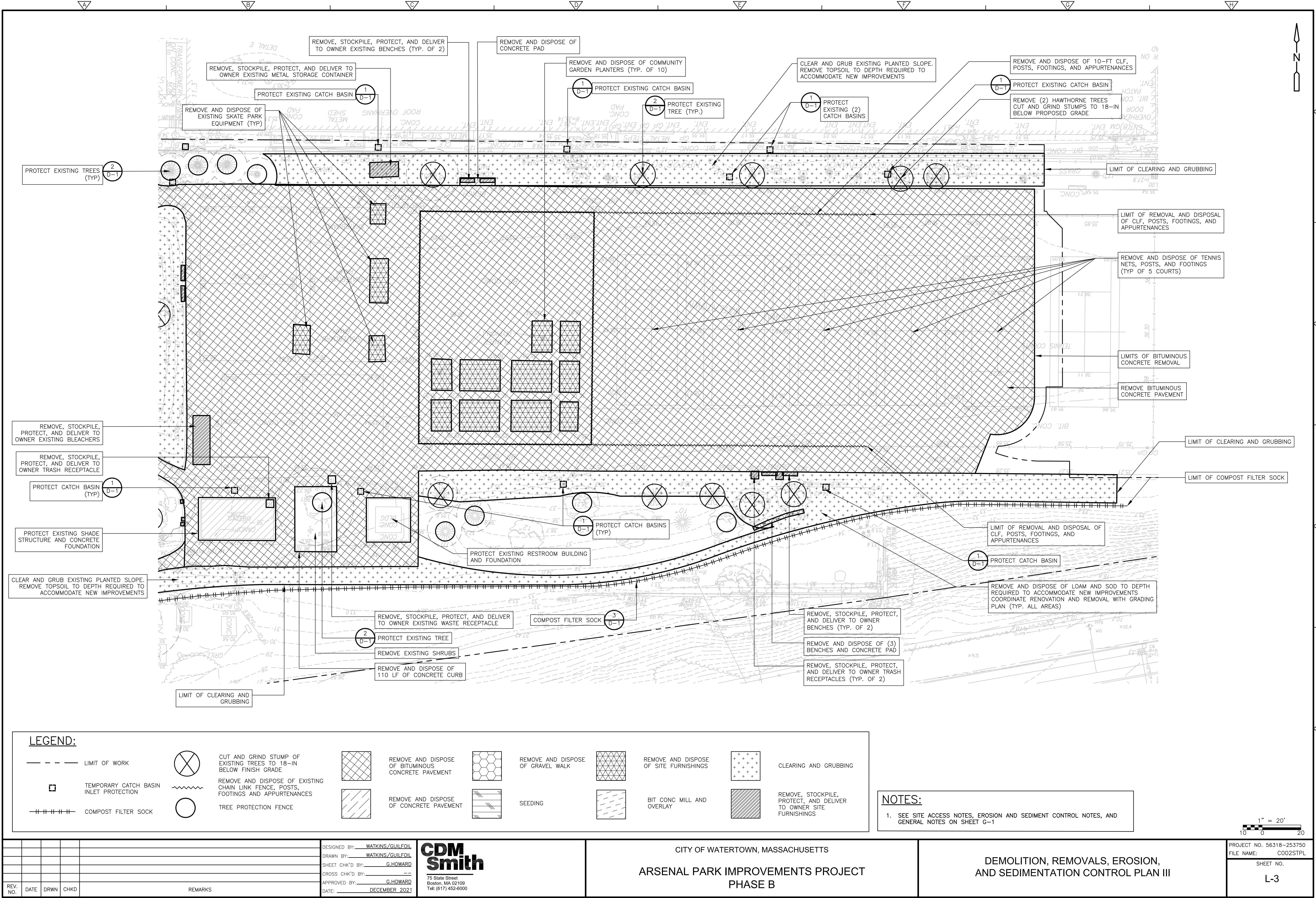
PROJECT NO: 56318-253750
FILE NAME: C002STPL

XREFs: [CDMS-2436] Images: [1/5/2022 12:40:14 PM
Last saved by: ECAJNP Time: 1/5/2022 12:40:14 PM
pw\\csmrnh-c02-pw.bentley.com:PW_PL1\\56318\\253750\\04 Design Services NM_60%\\09 Electrical\\10 CAD\\E001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



				DESIGNED BY: <u>WATKINS/GUILFOIL</u>	 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS		DEMOLITION, REMOVALS, EROSION, AND SEDIMENTATION CONTROL PLAN II		PROJECT NO. 56318-253750
				DRAWN BY: <u>WATKINS/GUILFOIL</u>		ARSENAL PARK IMPROVEMENTS PROJECT		FILE NAME: C002STPL		SHEET NO. L-2
				SHEET CHK'D BY: <u>G.HOWARD</u>		PHASE B				
				CROSS CHK'D BY: <u>---</u>						
				APPROVED BY: <u>G.HOWARD</u>						
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>DECEMBER 2021</u>					

XREFs: [CDWS-2436] Images: [1/5/2022 12:40:14 PM] Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\csm-smith-cad2-ew-bentley.com\pw_pl1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: G.HOWARD
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

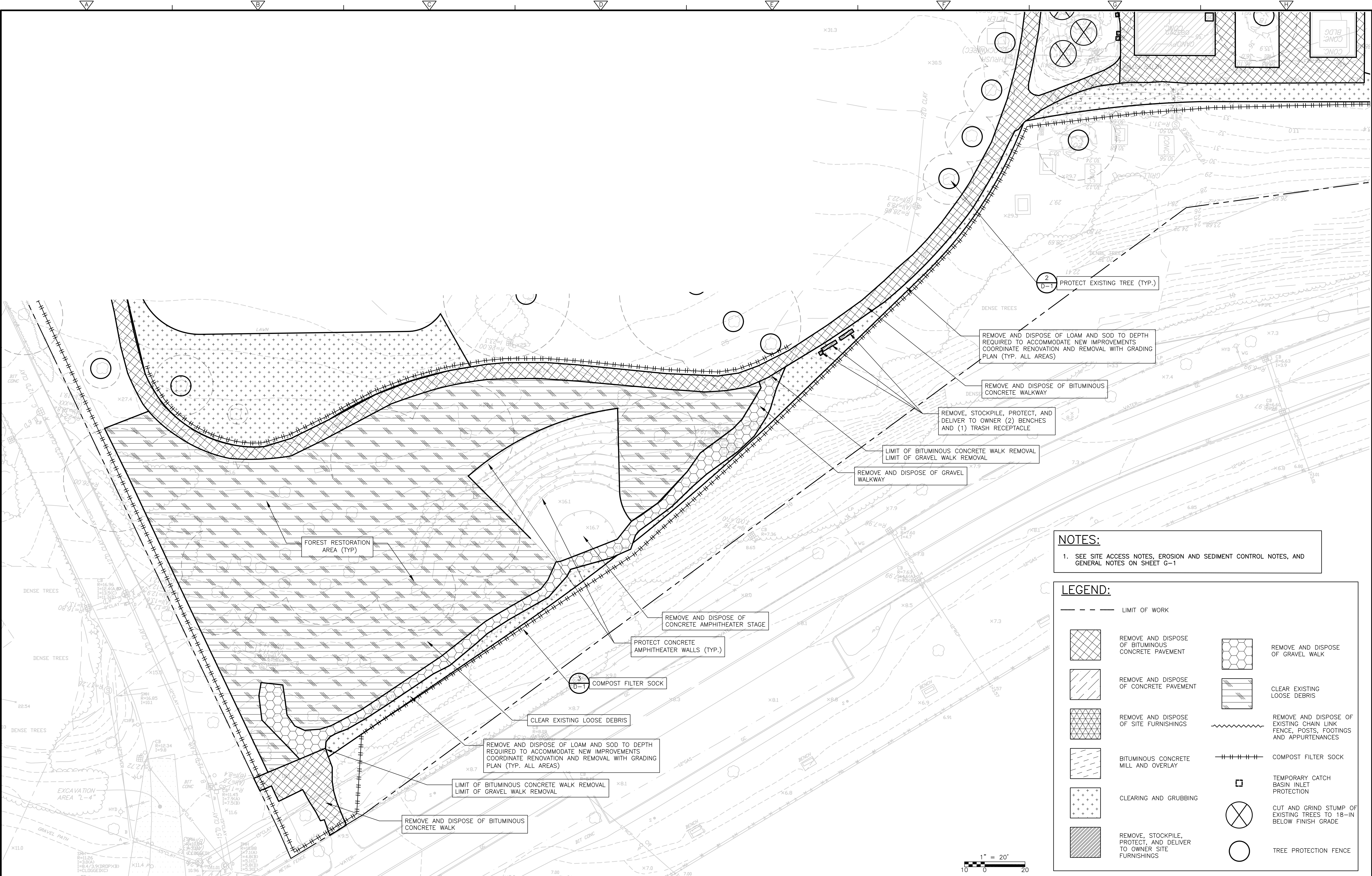
CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DEMOLITION, REMOVALS, EROSION,
AND SEDIMENTATION CONTROL PLAN III

PROJECT NO. 56318-253750
FILE NAME: C002STPL
SHEET NO.
L-3

XPREFs: [CDWS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\corporate-ar02-pw.bentley.com\PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NINT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

LEGEND:

---	LIMIT OF WORK		
	REMOVE AND DISPOSE OF BITUMINOUS CONCRETE PAVEMENT		REMOVE AND DISPOSE OF GRAVEL WALK
	REMOVE AND DISPOSE OF CONCRETE PAVEMENT		CLEAR EXISTING LOOSE DEBRIS
	REMOVE AND DISPOSE OF SITE FURNISHINGS		REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE, POSTS, FOOTINGS AND APPURTENANCES
	BITUMINOUS CONCRETE MILL AND OVERLAY		COMPOST FILTER SOCK
	CLEARING AND GRUBBING		TEMPORARY CATCH BASIN INLET PROTECTION
	REMOVE, STOCKPILE, PROTECT, AND DELIVER TO OWNER SITE FURNISHINGS		CUT AND GRIND STUMP OF EXISTING TREES TO 18-IN BELOW FINISH GRADE
			TREE PROTECTION FENCE

REV. NO.	DATE	DRWN	CHKD	REMARKS

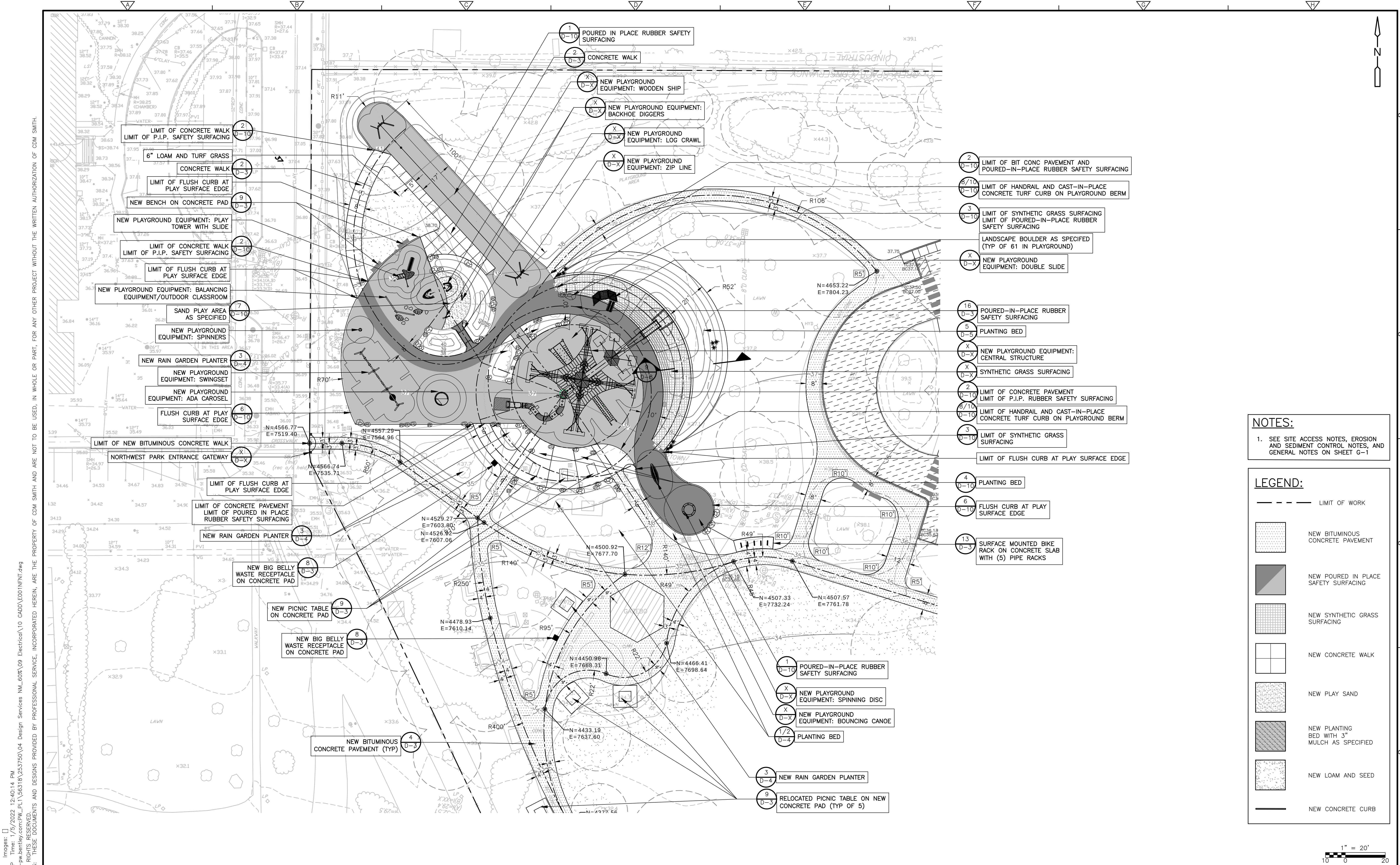
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
GROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DEMOLITION, REMOVALS, EROSION,
AND SEDIMENTATION CONTROL PLAN V

PROJECT NO. 56318-253750
FILE NAME:
SHEET NO.
L-5

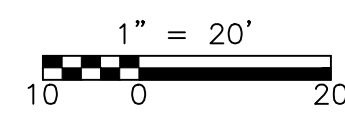


NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

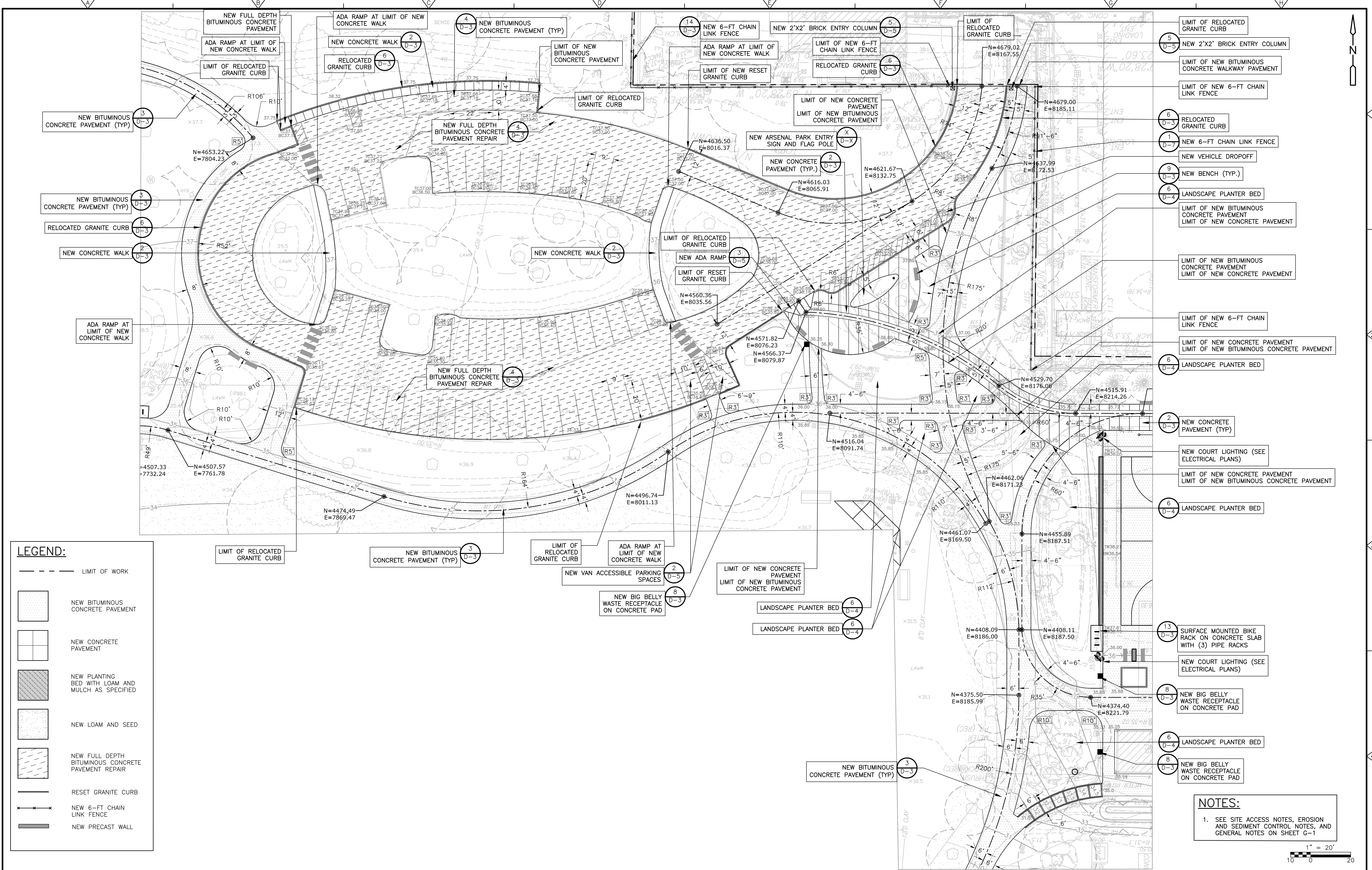
LEGEND:

- LIMIT OF WORK
- [Pattern] NEW BITUMINOUS CONCRETE PAVEMENT
- [Pattern] NEW POURED IN PLACE SAFETY SURFACING
- [Pattern] NEW SYNTHETIC GRASS SURFACING
- [Pattern] NEW CONCRETE WALK
- [Pattern] NEW PLAY SAND
- [Pattern] NEW PLANTING BED WITH 3" MULCH AS SPECIFIED
- [Pattern] NEW LOAM AND SEED
- NEW CONCRETE CURB



REV. NO. DATE DRWN CHKD REMARKS				DESIGNED BY: WATKINS/GUILFOIL DRAWN BY: WATKINS/GUILFOIL SHEET CHK'D BY: G.HOWARD CROSS CHK'D BY: G.HOWARD APPROVED BY: G.HOWARD DATE: DECEMBER 2021		CDM Smith 75 State Street Boston, MA 02109 Tel: (617) 452-6000		CITY OF WATERTOWN, MASSACHUSETTS ARSENAL PARK IMPROVEMENTS PROJECT PHASE B		LAYOUT AND MATERIALS PLAN I		PROJECT NO. 56318-253750 FILE NAME: C0035TPL SHEET NO. L-6	
--	--	--	--	---	--	---	--	---	--	--	--	---	--

XREFs: [CDMS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\cdm-smith-ar02-pw-bentley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\ED001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



LEGEND:

- LIMIT OF WORK
- [Pattern] NEW BITUMINOUS CONCRETE PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- [Pattern] NEW PLANTING BED WITH LOAM AND MULCH AS SPECIFIED
- [Pattern] NEW LOAM AND SEED
- [Pattern] NEW FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REPAIR
- RESET GRANITE CURB
- NEW 6-FT CHAIN LINK FENCE
- NEW PRECAST WALL

NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

REV. NO.	DATE	DRWN	CHKD	REMARKS

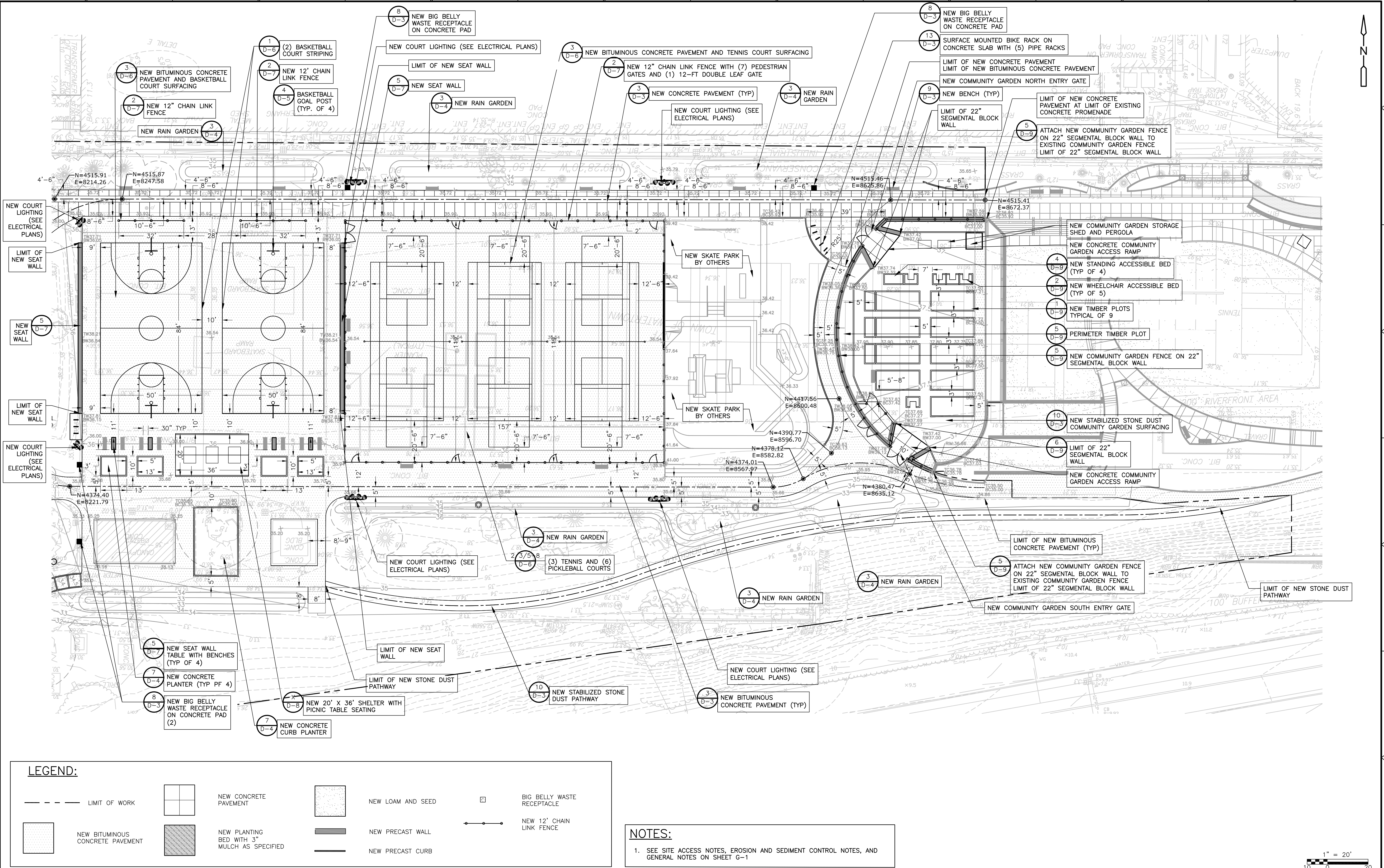
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
**ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B**

LAYOUT AND MATERIALS PLAN II
PROJECT NO: 56318-253750
FILE NAME: C002STPL
SHEET NO.
L-7

Images: [CDWS: 2436] XREFs: [CDWS: 2436] 1/5/2022 12:40:14 PM
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\csm\smith-cad2-aw\benley.com\DWG_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\01\001\NINT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



REV. NO.	DATE	DRWN	CHKD	REMARKS

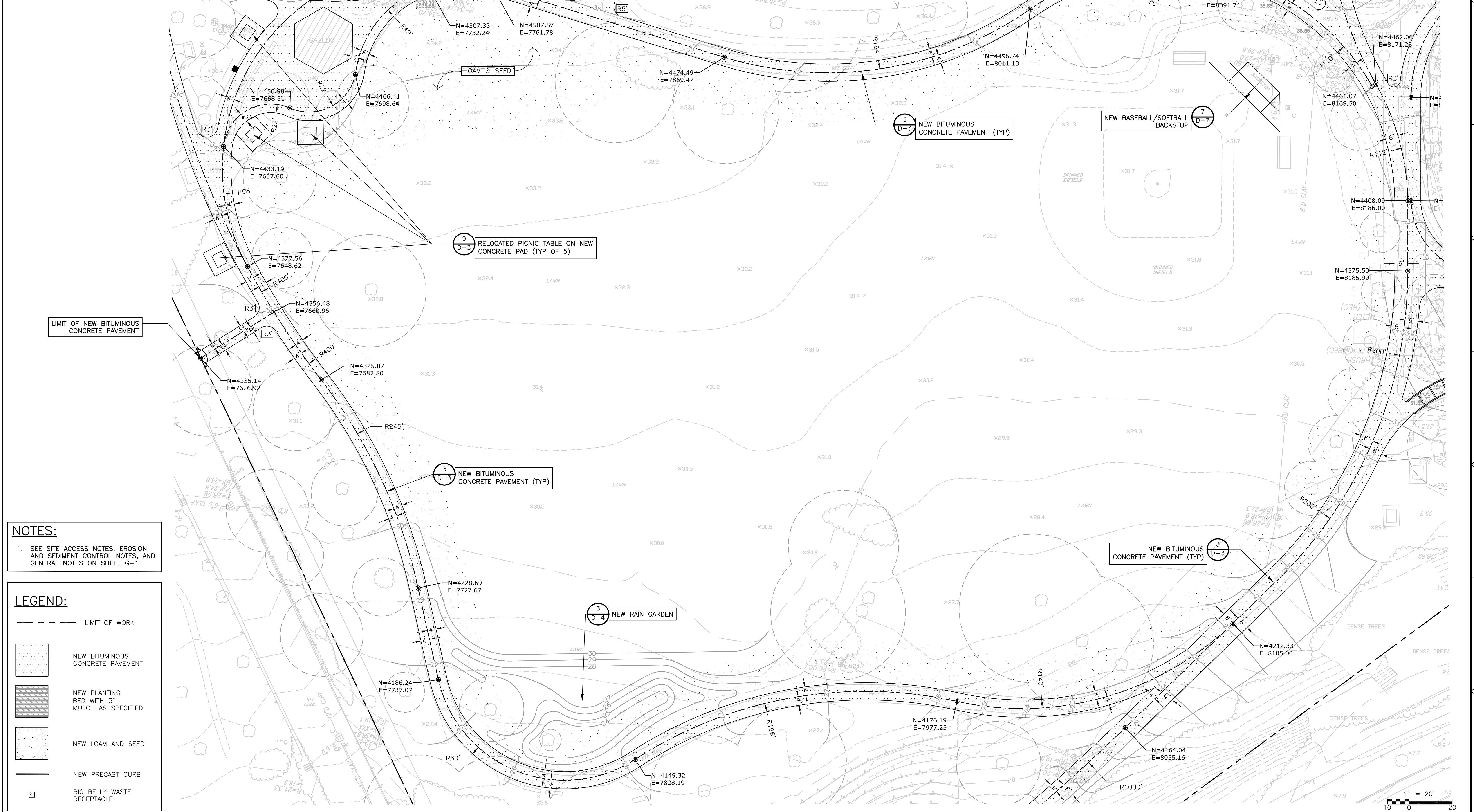
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: G.HOWARD
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021



CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

LAYOUT AND MATERIALS PLAN III
PROJECT NO. 56318-253750
FILE NAME: C002STPL
SHEET NO. L-8

XPREFs: [CDWS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
p:\w\cdmsmith-ar02-pw.bentley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E001NFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

LEGEND:

- LIMIT OF WORK
- [Stippled Pattern] NEW BITUMINOUS CONCRETE PAVEMENT
- [Cross-hatched Pattern] NEW PLANTING BED WITH 3" MULCH AS SPECIFIED
- [Dotted Pattern] NEW LOAM AND SEED
- NEW PRECAST CURB
- [Square with X] BIG BELLY WASTE RECEPTACLE

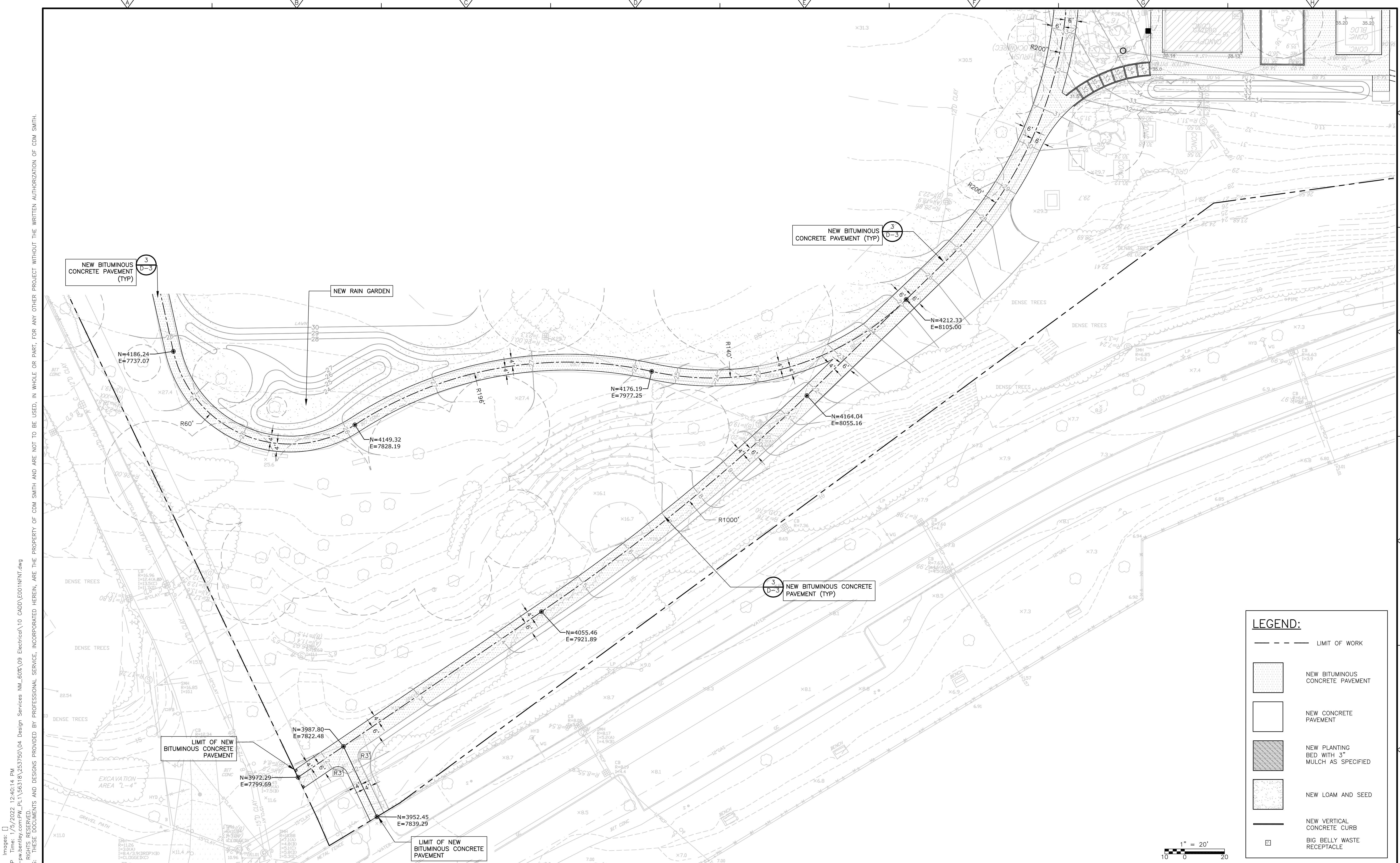
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

PROJECT NO. 56318-253750
FILE NAME:
SHEET NO.
L-9



XREFs: [CDMS_2436] Images: []
Last saved by: EGANLP Time: 1/5/2022 12:40:14 PM
pw:\comsmith-ar02-pw\beniley.com\PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021



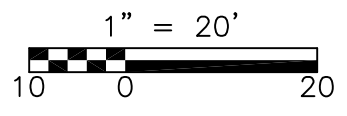
CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

LAYOUT AND MATERIALS PLAN V
L-10

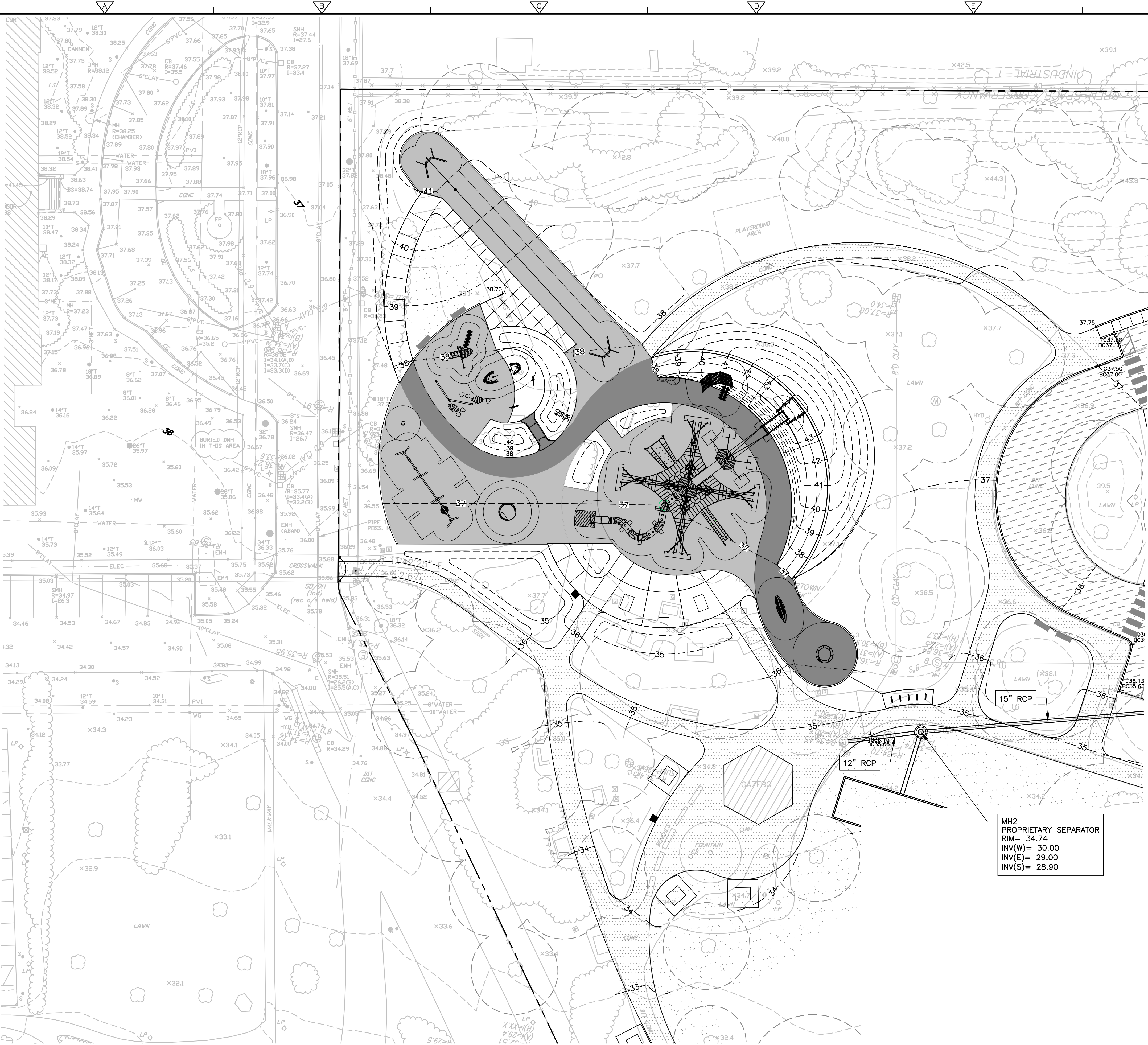
PROJECT NO. 56318-253750
FILE NAME:
SHEET NO.
L-10

LEGEND:

- LIMIT OF WORK
- [Pattern] NEW BITUMINOUS CONCRETE PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- [Pattern] NEW PLANTING BED WITH 3" MULCH AS SPECIFIED
- [Pattern] NEW LOAM AND SEED
- NEW VERTICAL CONCRETE CURB
- [Symbol] BIG BELLY WASTE RECEPTACLE



XREFs: [CDMS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\admin\c-02-02-pw-bentley.com\PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\0001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



NOTES:

1. SEE SITE ACCESS NOTES, EROSION AND SEDIMENT CONTROL NOTES, AND GENERAL NOTES ON SHEET G-1

GRADING AND EXCAVATION NOTES:

- CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
- CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
- NO SOIL SHALL BE REMOVED FROM THE SITE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
- TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
- IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
- SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
- REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

LEGEND:

- LIMIT OF WORK
- NEW SOD
- NEW BITUMINOUS CONCRETE PATHWAY
- NEW FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REPAIR

REV. NO.	DATE	DRWN	CHKD	REMARKS

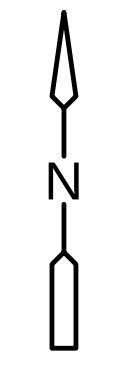
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: G.HOWARD
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

GRADING, DRAINAGE, AND UTILITIES PLAN I
L-11

PROJECT NO. 56318-253750
FILE NAME: C004STPL
SHEET NO.
L-11



1. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
2. CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
4. NO SOIL SHALL BE REMOVED FROM THE SITE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
5. TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
6. IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
7. SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
8. REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

1. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
2. CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
4. NO SOIL SHALL BE REMOVED FROM THE SITE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
5. TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
6. IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
7. SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
8. REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

Diagram illustrating two types of pavement repair:

- NEW BITUMINOUS CONCRETE PAVEMENT**: Shown as a rectangular area with a grid pattern of small squares, representing a full-depth repair.
- NEW FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REPAIR**: Shown as a rectangular area with diagonal hatching lines, representing a full-depth repair.

SHEET NO
L-12

ARSENAL PARK IMPROVEMENTS PROJECT PHASE B

GRADING, DRAINAGE, AND UTILITIES PLAN II

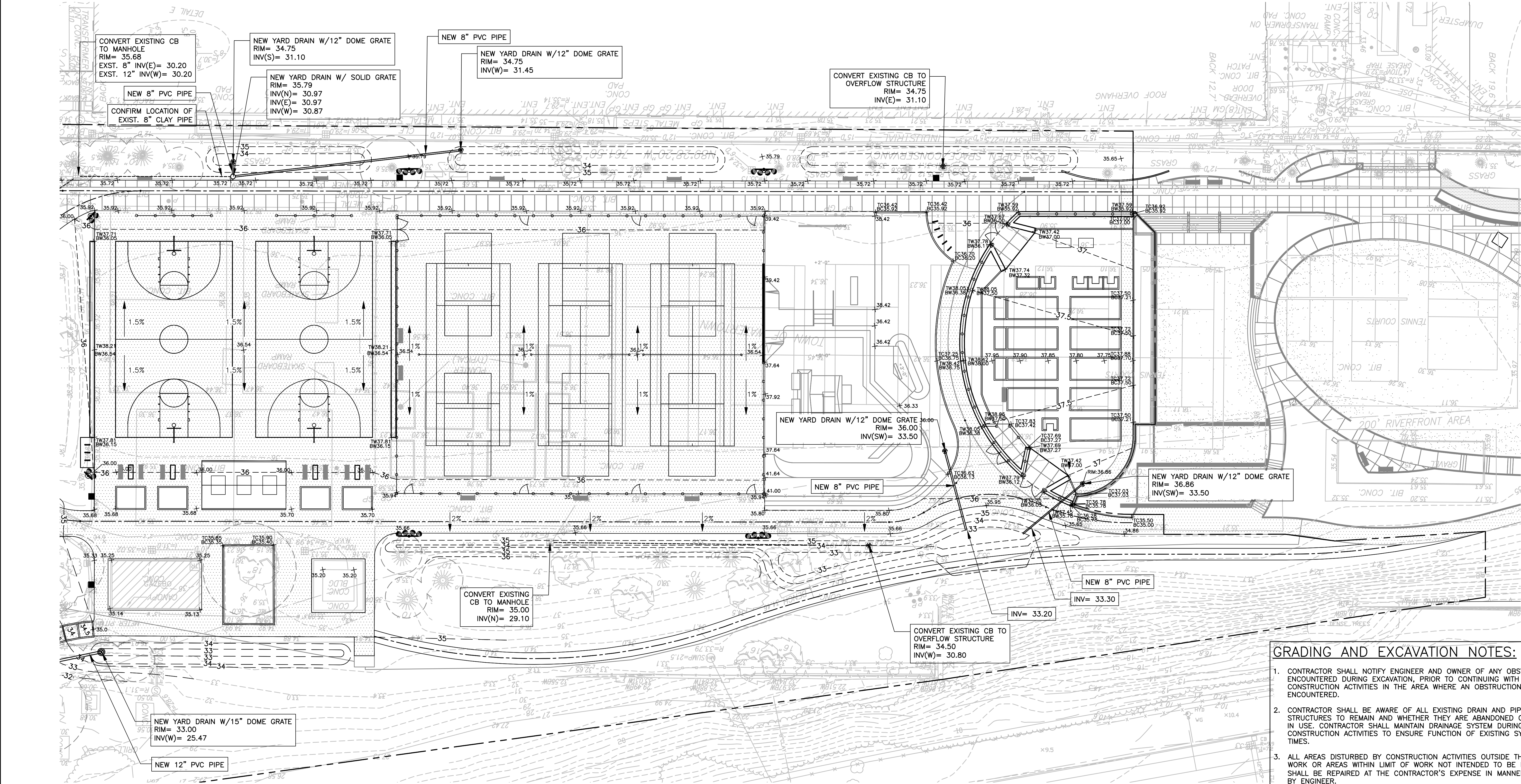
PROJECT NO. 56318-253750
FILE NAME: C004STPL

SHEET NO

L-12

90% SUBMITTAL - NOT FOR CONSTRUCTION
Page 21 of 21

Images: [CDWS: 2436] XREFs: [CDWS: 2436] 1/5/2022 12:40:14 PM
Last saved by: EGM/JUP Time: 1/5/2022 12:40:14 PM
pw:\csm\smith-cad\2-cw-bentley.com\pw_pl1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\000INFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



GRADING AND EXCAVATION NOTES:

1. CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
2. CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
3. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
4. NO SOIL SHALL BE REMOVED FROM THE SITE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
5. TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
6. IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
7. SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
8. REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

LEGEND:

---	LIMIT OF WORK		NEW BITUMINOUS CONCRETE PATHWAY
	NEW SOD		NEW FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REPAIR

DESIGNED BY: WATKINS/GUILFOIL	
DRAWN BY: WATKINS/GUILFOIL	
SHEET CHK'D BY: G.HOWARD	
CROSS CHK'D BY: G.HOWARD	
APPROVED BY: G.HOWARD	
DATE: DECEMBER 2021	

REV. NO.	DATE	DRWN	CHKD	REMARKS



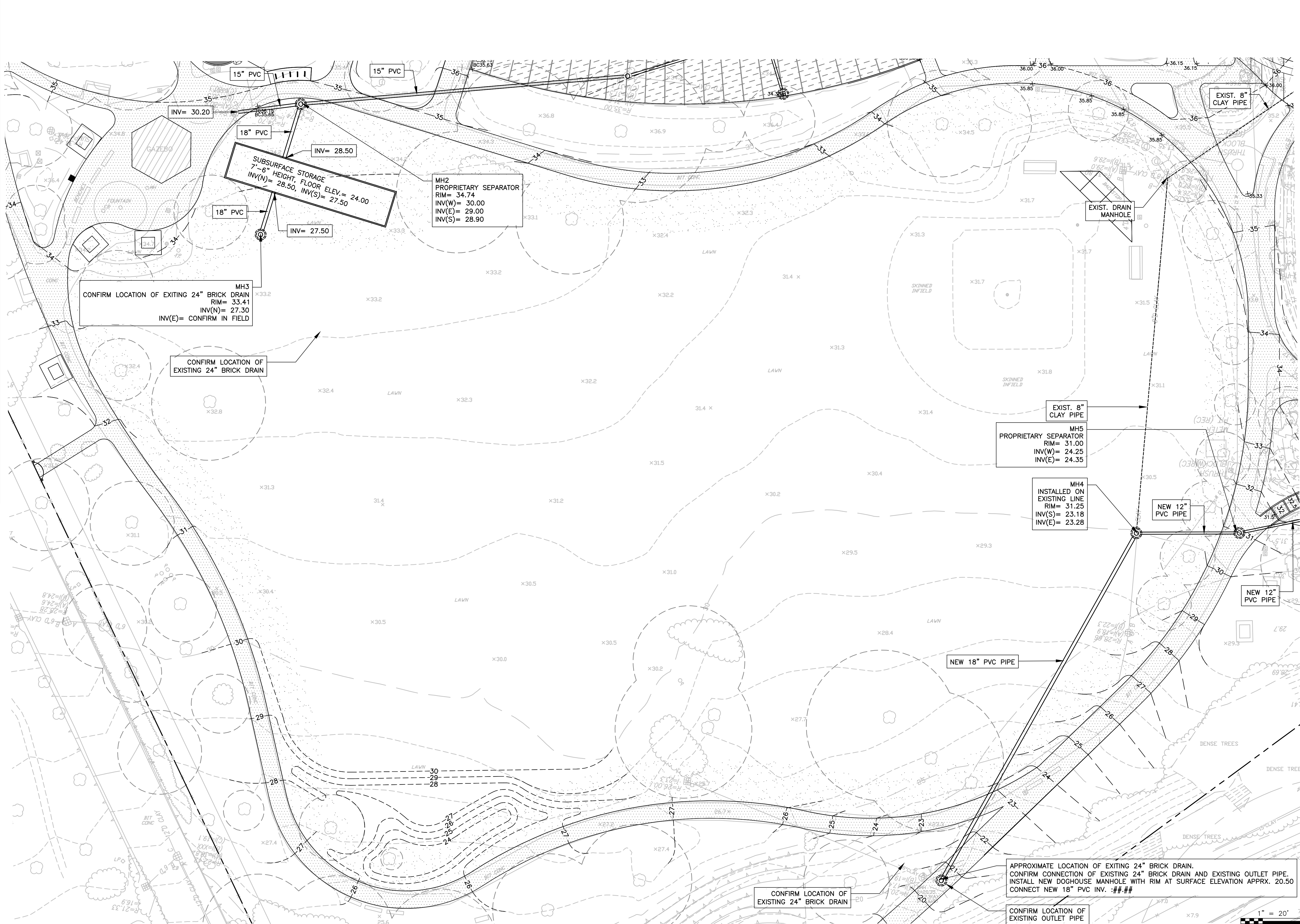
CITY OF WATERTOWN, MASSACHUSETTS	PROJECT NO. 56318-253750 FILE NAME: C004S1PL SHEET NO. L-13
ARSENAL PARK IMPROVEMENTS PROJECT PHASE B	
GRADING, DRAINAGE, AND UTILITIES PLAN III	

GRADING AND
EXCAVATION NOTES:

- CONTRACTOR SHALL NOTIFY ENGINEER AND OWNER OF ANY OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION, PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES IN THE AREA WHERE AN OBSTRUCTION IS ENCOUNTERED.
- CONTRACTOR SHALL BE AWARE OF ALL EXISTING DRAIN AND PIPE STRUCTURES TO REMAIN AND WHETHER THEY ARE ABANDONED OR TO REMAIN IN USE. CONTRACTOR SHALL MAINTAIN DRAINAGE SYSTEM DURING CONSTRUCTION ACTIVITIES TO ENSURE FUNCTION OF EXISTING SYSTEM AT ALL TIMES.
- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES OUTSIDE THE LIMIT OF WORK OR AREAS WITHIN LIMIT OF WORK NOT INTENDED TO BE MODIFIED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN MANNER APPROVED BY ENGINEER.
- NO SOIL SHALL BE REMOVED FROM THE SITE. EXCAVATED SOILS SHALL NOT BE LOCATED WITHIN 5 LATERAL FEET OF ANY WALKWAY, PRECAST STAIRS OR PRECAST WALLS. EXISTING SOILS SHALL BE AMENDED FOR RE-USE AS SPECIFIED.
- TO ESTABLISH PROPER GRADES, CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF GRADE STAKES. THE NUMBER AND LOCATION SHALL BE AS APPROVED BY THE ENGINEER. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE OWNER AND THE ENGINEER PRIOR TO FINE GRADING ACTIVITIES FIELD SHALL BE LASER GRADED AS SPECIFIED.
- IF EXISTING TREES, UTILITIES, OR STRUCTURES IMPEDE EXCAVATION ACTIVITIES IN ANY MANNER, CONTRACTOR SHALL INFORM THE ENGINEER AND OWNER PRIOR TO CONTINUING WITH CONSTRUCTION ACTIVITIES.
- SLOPE OF WALKWAYS SHALL BE 5% (MAX.) LONGITUDINAL AND 2% (MAX.) CROSS SLOPE EXCEPT AS SHOWN ON THE DRAWINGS.
- REGRADED SLOPES SHALL NOT EXCEED 3:1 UNLESS APPROVED BY ENGINEER.

LEGEND:

- LIMIT OF WORK
- NEW SOD
- NEW BITUMINOUS CONCRETE PATHWAY
- NEW FULL DEPTH BITUMINOUS CONCRETE PAVEMENT REPAIR



REV.	DATE	DRWN	CHKD	REMARKS	

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

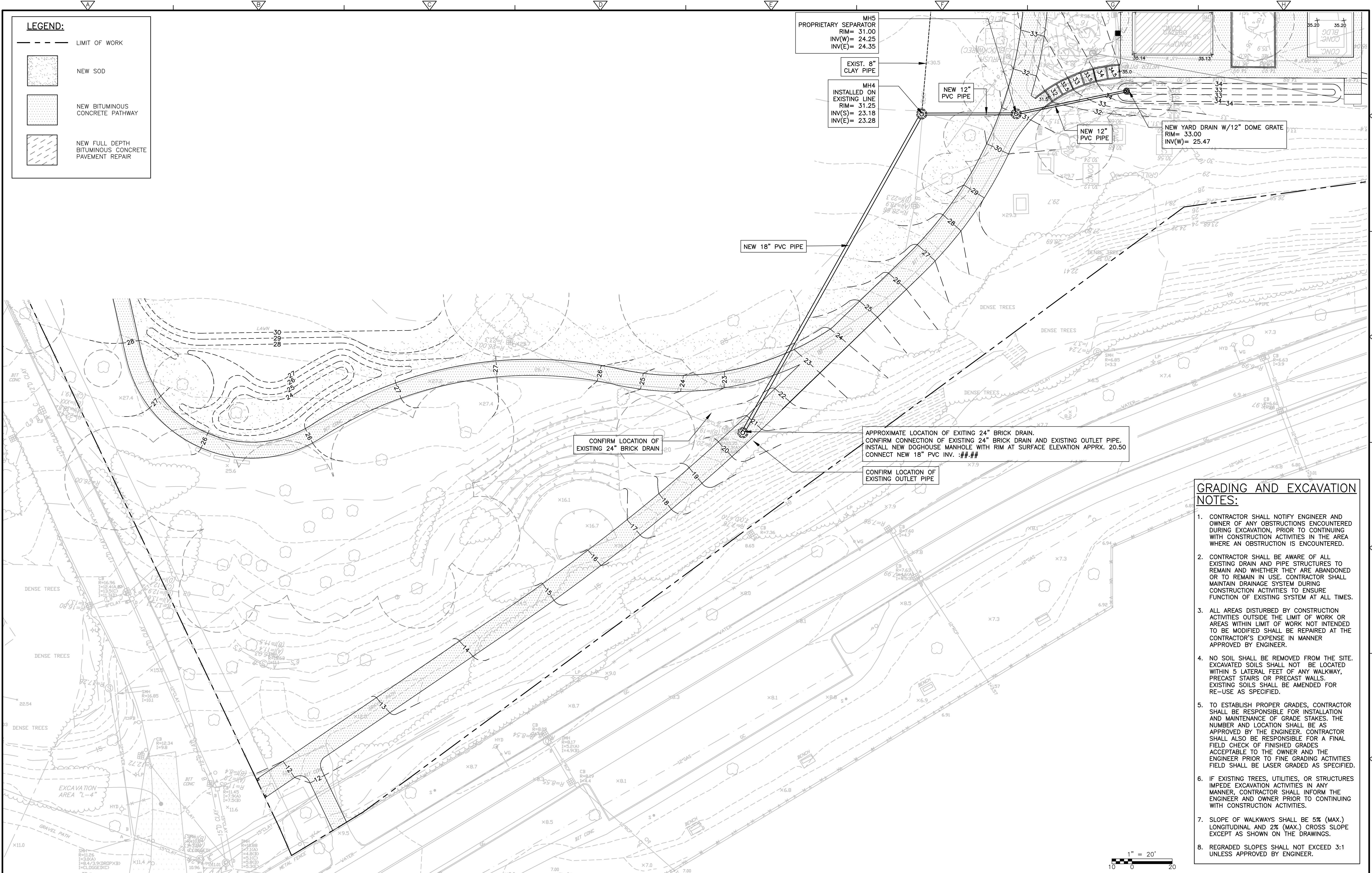
**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

GRADING, DRAINAGE, AND UTILITIES PLAN IV

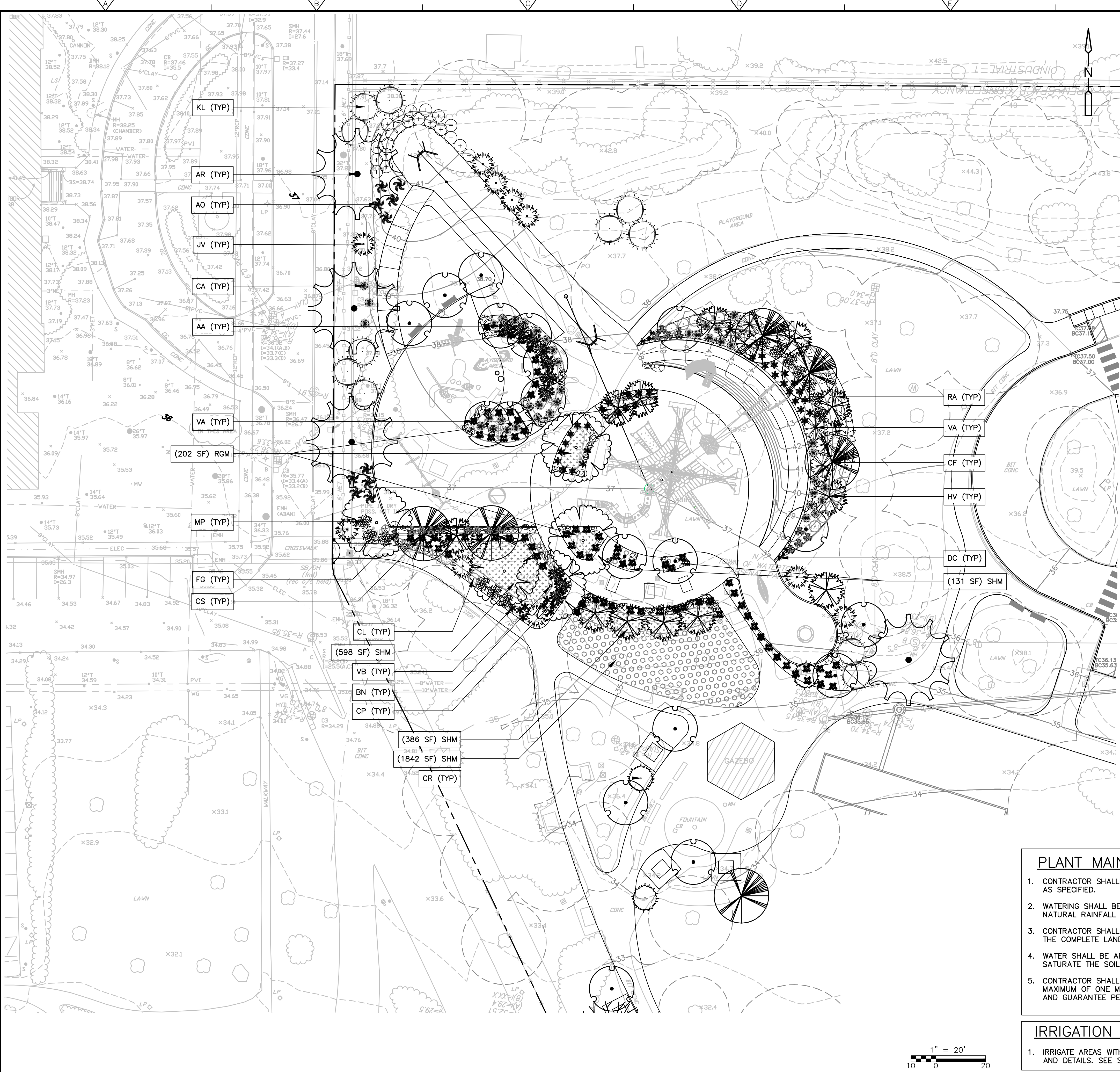
PROJECT NO: 56318-253750
FILE NAME: C004STPL
SHEET NO.
L-14

XREFs: [CDWS_2436] Images: []
Last saved by: EGANUP Time: 1/5/2022 12:40:14 PM
pw:\comsmith-ar02-pw.bentley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E001NFNT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



					DESIGNED BY: <u>WATKINS/GUILFOIL</u>	CDM Smith 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS	GRADING, DRAINAGE, AND UTILITIES PLAN V	PROJECT NO. 56318-253750
				DRAWN BY: <u>WATKINS/GUILFOIL</u>	FILE NAME: C004STPL				
				SHEET CHK'D BY: <u>G.HOWARD</u>	SHEET NO.				
				CROSS CHK'D BY: <u>--</u>	L-15				
				APPROVED BY: <u>G.HOWARD</u>					
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>DECEMBER 2021</u>				

XREFs: [CDMS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
pw:\cdm\smith-ar02-pw\entley.com\PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\ED001NFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



PLANT MAINTENANCE NOTES:

- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED.
- WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK.
- WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
- CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.

IRRIGATION NOTES:

- IRRIGATE AREAS WITHIN LIMITS OF IRRIGATION SHOWN. SEE IRRIGATION PLAN AND DETAILS. SEE SPECIFICATIONS FOR AUTOMATIC IRRIGATION SYSTEM.

TREE LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	NOTES
	AR	4	ACER RUBRUM	RED MAPLE	2.5"-3" CAL TREE FORM, B&B
	AA	13	AMELANCHIER ARBOREA	SERVICEBERRY	2.5"-3" CAL MULTISTEM, B&B
	BN	5	BETULA NIGRA	RIVER BIRCH	2.5"-3" CAL MULTISTEM, B&B
	CF	5	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5"-3" CAL MULTISTEM, B&B
	CR	2	CORNUS RACEMOSA	PANICLED DOGWOOD	2.5"-3" CAL MULTISTEM, B&B
	HV	10	HAMAMELIS VIRGINIANA	WITCHHAZEL	1"-1.5" CAL MULTISTEM, B&B
	JV	8	JUNIPERUS VIRGINIANA 'BURKII'	EASTERN RED CEDAR	2"-2.5" CAL TREE FORM, B&B

SHRUB LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
	AO	10	ARONIA ARBUTIFOLIA	CHOKEBERRY	#3 CONT (6' O.C.)
	AV	3	ARONIA MELANOCARPA 'VIKING'	VIKING BLACK CHOKEBERRY	#3 CONT (8' O.C.)
	CA	40	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#3 CONT (5' O.C.)
	CL	14	CLETHRA ALNIFOLIA 'HUMMINGBIRD'	SUMMERSWEET	#3 CONT (5' O.C.)
	CP	10	COMPTONIA PEREGRINA	SWEETFERN	#3 CONT (6' O.C.)
	CS	12	CORNUS SERICEA 'FARROW' ARCTIC FIRE	FARROW ARCTIC FIRE DWARF DOGWOOD	#3 CONT (4' O.C.)
	FG	17	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	#3 CONT (4' O.C.)
	KL	11	KALMIA LATIFOLIA	MOUNTAIN LAUREL	#3 CONT (10' O.C.)
	MP	13	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	#3 CONT (6' O.C.)
	RA	9	RHUS AROMATICA	FRAGRANT SUMAC	#3 CONT (8' O.C.)
	VA	58	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	#3 CONT (5' O.C.)
	VC	6	VACCINIUM CORYMBOSUM	HIGHBUSH BLUEBERRY	#3 CONT (8' O.C.)
	VB	38	VIBURNUM ACERFOLIUM	MAPLE-LEAF VIBURNUM	#3 CONT (4' O.C.)

GRASSES LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
	DC	9	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS	#1 CONT (2' O.C.)

SHADE MEADOW MIX				1973 SF	30 LB/ACRE	EQUAL PERCENTAGES OF EACH SPECIES
	SHM	DESCHAMPSIA CESPITOSA	TUFTED HAIR GRASS			
		CAREX LUCORUM	BLUE RIDGE SEDGE			
		CAREX PENSYLVANICA	SEDGE			
		AQUILEGIA CANADENSIS	COLUMBINE			
		GERANIUM MACALATUM	WILD GERANIUM			
		LOBELIA CARDINALIS	CARDINAL FLOWER			
		TIARELLA CORDIFOLIA	FOAMFLOWER			
RAIN GARDEN MIX				1186 SF	30 LB/ACRE	EQUAL PERCENTAGES OF EACH SPECIES
	RGM	SCHIZACHRYUM SCOPARIUM	LITTLE BLUESTEM			
		ELYMUS VIRGINICUS	VIRGINIA WILD RYE			
		CAREX VULPINOIDEA	FOX SEDGE			
		COREOPSIS LANCELOTA	LANCE-LEAFED COREOPSIS			
		ASCLEPIAS TUBEROSA	BUTTERFLY WEED			
		SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER			
		RUDBECKIA HIRTA	BLACK-EYED SUSAN			
		LOBELIA CARDINALIS	CARDINAL FLOWER			

LANDSCAPE NOTES:

- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND SIDEWALK CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
- A 3-INCH DEEP SHREDDED PINE BARK SAUCER SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, AS SHOWN ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE LANDSCAPE ARCHITECT.
- FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND PLANT LABELS PRIOR TO BIDDING.
- ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANT MATERIALS SHALL BE MAINTAINED AND GUARANTEED AS SPECIFIED.
- THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

DESIGNED BY: WATKINS/GUILFOIL	
DRAWN BY: WATKINS/GUILFOIL	
SHEET CHK'D BY: G.HOWARD	
CROSS CHK'D BY: G.HOWARD	
APPROVED BY: G.HOWARD	
DATE: DECEMBER 2021	
REV. NO.	DATE
DRWN	CHKD
REMARKS	

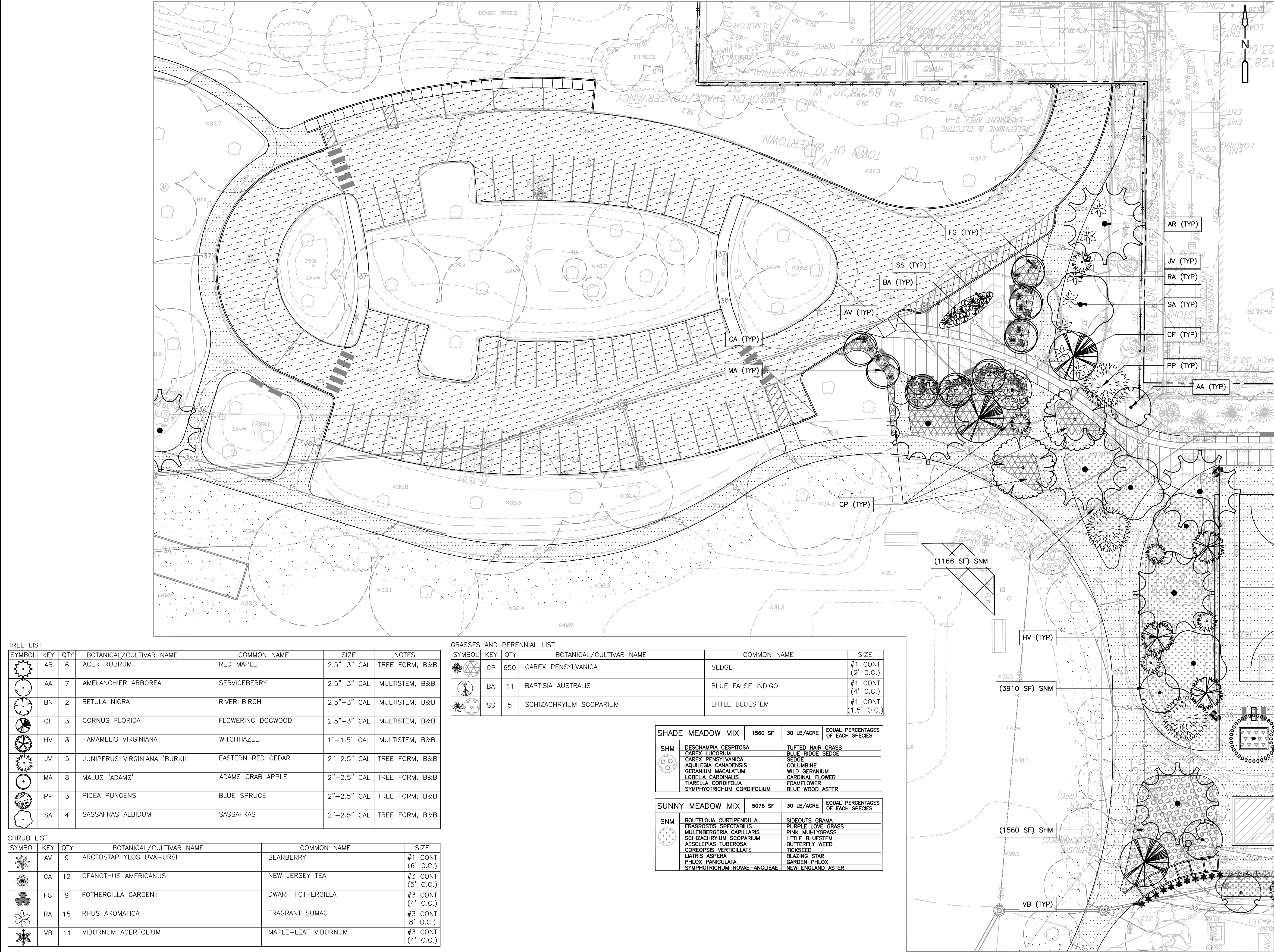
CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

LANDSCAPING PLAN I

PROJECT NO. 56318-253750
FILE NAME: C005STPL
SHEET NO.
L-16

XREFs: [CDMS-2436] Images: []
Last saved by: EGANIP Time: 1/5/2022 12:40:14 PM
pw:\cdermish-c02-pw.bentley.com\2W_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAAD\E001NFIN.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



TREE LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
AR	6	ACER RUBRUM	RED MAPLE	2.5"–3" CAL	TREE FORM, B&B
AA	7	AMELANCHIER ARBOREA	SERVICEBERRY	2.5"–3" CAL	MULTISTEM, B&B
BN	2	BETULA NIGRA	RIVER BIRCH	2.5"–3" CAL	MULTISTEM, B&B
CF	3	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5"–3" CAL	MULTISTEM, B&B
HV	3	HAMAMELIS VIRGINIANA	WITCHHAZEL	1"–1.5" CAL	MULTISTEM, B&B
JV	5	JUNIPERUS VIRGINIANA 'BURKII'	EASTERN RED CEDAR	2"–2.5" CAL	TREE FORM, B&B
MA	8	MALUS 'ADAMS'	ADAMS CRAB APPLE	2"–2.5" CAL	TREE FORM, B&B
PP	3	PICEA PUNGENS	BLUE SPRUCE	2"–2.5" CAL	TREE FORM, B&B
SA	4	SASSAFRAS ALBIDUM	SASSAFRAS	2"–2.5" CAL	TREE FORM, B&B

SHRUB LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
AV	9	ARCTOSTAPHYLOS UVA–URSI	BEARBERRY	#1 CONT (6' O.C.)	
CA	12	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#3 CONT (5' O.C.)	
FG	9	FOTHERGILLA GARDENII	DWARF FOTHERGILLA	#3 CONT (4' O.C.)	
RA	15	RHUS AROMATICA	FRAGRANT SUMAC	#3 CONT (8' O.C.)	
VB	11	VIBURNUM ACERFOLIUM	MAPLE–LEAF VIBURNUM	#3 CONT (4' O.C.)	

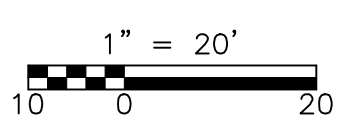
GRASSES AND PERENNIAL LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
CP	650	CAREX PENSYLVANICA	SEDGE	#1 CONT (2' O.C.)	
BA	11	BAPTISIA AUSTRALIS	BLUE FALSE INDIGO	#1 CONT (4' O.C.)	
SS	5	SCHIZACHRYIUM SCOPARIUM	LITTLE BLUESTEM	#1 CONT (1.5' O.C.)	

SHADE MEADOW MIX				1560 SF	30 LB/ACRE	EQUAL PERCENTAGES OF EACH SPECIES
SHM	DESCHAMPIA CESPITOSA	TUFTED HAIR GRASS				
	CAREX LUCORUM	BLUE RIDGE SEDGE				
	CAREX PENSYLVANICA	SEDGE				
	AQUILEGIA CANADENSIS	COLUMBINE				
	GERANIUM MACALATUM	WILD GERANIUM				
	LOBELIA CARDINALIS	CARDINAL FLOWER				
	TIARELLA CORDIFOLIA	FOAMFLOWER				
	SYMPHYOTRICHUM CORDIFOLIUM	BLUE WOOD ASTER				

SUNNY MEADOW MIX				5076 SF	30 LB/ACRE	EQUAL PERCENTAGES OF EACH SPECIES
SNM	BOUTELOUA CURTIPENDULA	SIDEOUTS GRAMA				
	ERAGROSIS SPECTABILIS	PURPLE LOVE GRASS				
	MULLENBERGERIA CAPILLARIS	PINK MUHLYGRASS				
	SCHIZACHRYIUM SCOPARIUM	LITTLE BLUESTEM				
	AESOLEPIAS TUBEROSA	BUTTERFLY WEED				
	COREOPSIS VERTICILLATA	TICKSEED				
	LIATRIS ASPERA	BLAZING STAR				
	PHLOX PANICULATA	GARDEN PHLOX				
	SYMPHOTRICHUM NOVAE–ANGLIAE	NEW ENGLAND ASTER				

- ### LANDSCAPE NOTES:
- ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
 - NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND SIDEWALK CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
 - A 3-INCH DEEP SHREDDED PINE BARK SAUCER SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, AS SHOWN ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 - ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE LANDSCAPE ARCHITECT.
 - FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND PLANT LABELS PRIOR TO BIDDING.
 - ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
 - ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ALL PLANT MATERIALS SHALL BE MAINTAINED AND GUARANTEED AS SPECIFIED.
 - THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.
- ### PLANT MAINTENANCE NOTES:
- CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED.
 - WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
 - CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK.
 - WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
 - CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.
- ### IRRIGATION NOTES:
- IRRIGATE AREAS WITHIN LIMITS OF IRRIGATION SHOWN. SEE IRRIGATION PLAN AND DETAILS. SEE SPECIFICATIONS FOR AUTOMATIC IRRIGATION SYSTEM.

					DESIGNED BY: <u>WATKINS/GUILFOIL</u>	CDM Smith 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS	LANDSCAPING PLAN II	PROJECT NO. 56318-253750
				DRAWN BY: <u>WATKINS/GUILFOIL</u>	FILE NAME: C006STPL				
				SHEET CHK'D BY: <u>G.HOWARD</u>	SHEET NO.				
				CROSS CHK'D BY: <u>---</u>	L-17				
REV. NO.	DATE	DRWN	CHKD	REMARKS	APPROVED BY: <u>G.HOWARD</u>				
					DATE: <u>DECEMBER 2021</u>				



					DESIGNED BY: <u>WATKIN</u>
					DRAWN BY: <u>WATKIN</u>
					SHEET CHK'D BY:
					CROSS CHK'D BY:
					APPROVED BY:
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>DECE</u>

GUILFOIL GUILFOIL G.HOWARD -- G.HOWARD BER 2021	 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MA ARSENAL PARK IMPROVEMENTS PHASE I
--	---	---

SACHUSETTS	
MENTS PROJECT	

- | <u>PLANT MAINTENANCE NOTES:</u> | |
|---------------------------------|---|
| 1. | CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED. |
| 2. | WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK. |
| 3. | CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK. |
| 4. | WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT. |
| 5. | CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD. |

<u>IRRIGATION NOTES:</u>	
1.	IRRIGATE AREAS WITHIN LIMITS OF IRRIGATION SHOWN. SEE IRRIGATION PLAN AND DETAILS. SEE SPECIFICATIONS FOR AUTOMATIC IRRIGATION SYSTEM.

PLANT MAINTENANCE NOTES:

1. CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED.
2. WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
3. CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK.
4. WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
5. CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.

LANDSCAPE NOTES:

1. ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
3. NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND SIDEWALK CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
4. A 3-INCH DEEP SHREDDED PINE BARK SAUCER SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, AS SHOWN ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
5. ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE LANDSCAPE ARCHITECT.
6. FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND PLANT LABELS PRIOR TO BIDDING.
7. ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
8. ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSEYMEN.
9. ALL PLANT MATERIALS SHALL BE MAINTAINED AND GUARANTEED AS SPECIFIED.
10. THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.

IRRIGATION NOTES:

1. IRRIGATE AREAS WITHIN LIMITS OF IRRIGATION SHOWN. SEE IRRIGATION PLAN AND DETAILS. SEE SPECIFICATIONS FOR AUTOMATIC IRRIGATION SYSTEM.

XREFs: [CDWS_2436] Images: []
Last saved by: EGANUP Time: 1/5/2022 12:40:14 PM
p:\w\cdmsmith-ar02-pw.bentley.com\pw_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001N1NT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

REV.	DATE	DRWN	CHKD		REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

LANDSCAPING PLAN IV

PROJECT NO. 56318-253750
FILE NAME: C006STPL

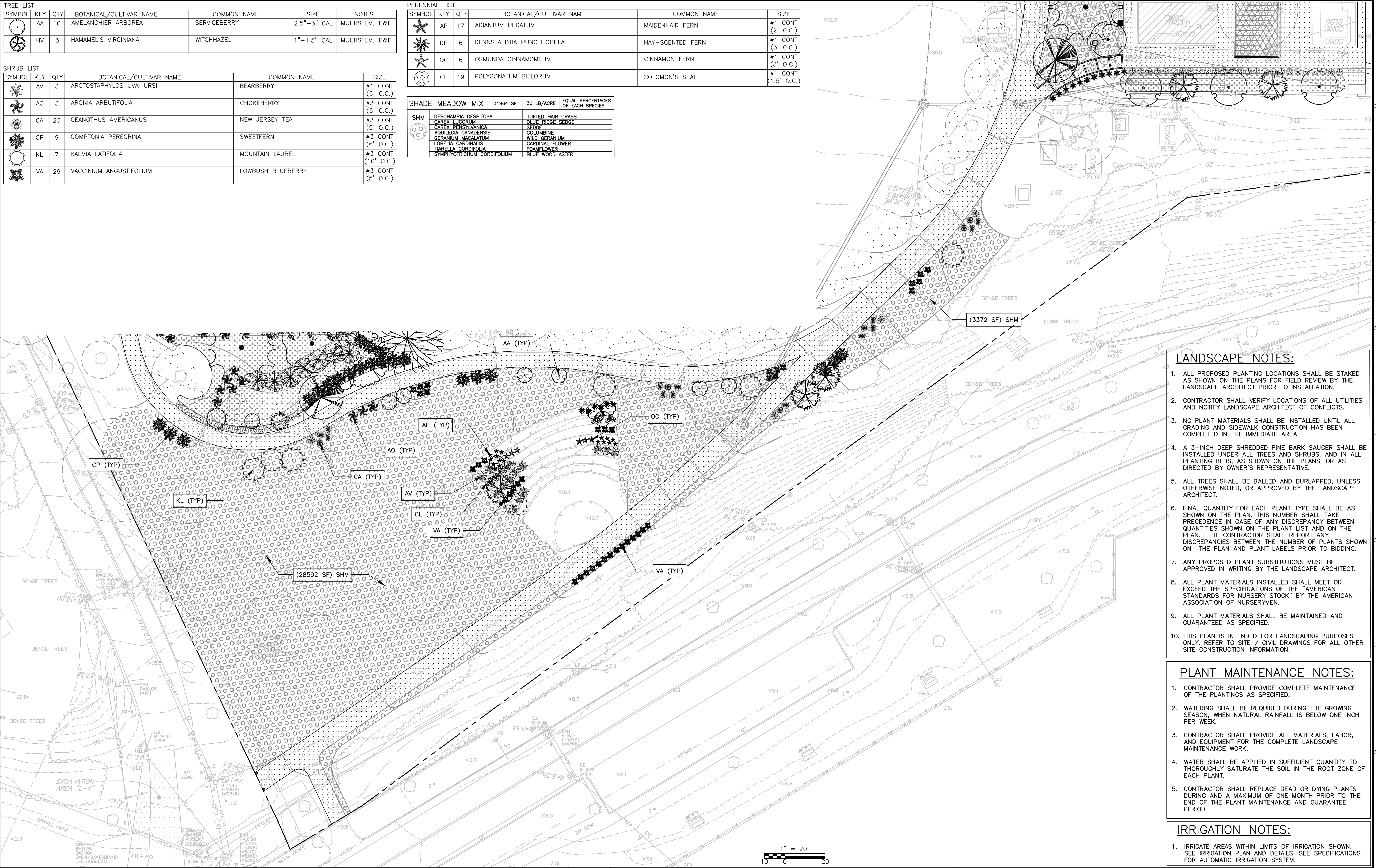
SHEET NO.

L-19

XREFs: [CDMS_2436] Images: []
Last saved by: EGANUP Time: 1/5/2022 12:40:14 PM
pw:\\cor-smith-ar02-pw-bentley.com\\PW_PL1\\56318\\253750\\04 Design Services NM_60X\\09 Electrical\\10 CAD\\E001NFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

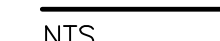
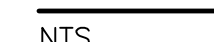
TREE LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
	AA	10	AMELANCHIER ARBOREA	SERVICEBERRY	2.5"-3" CAL
	HV	3	HAMAMELIS VIRGINIANA	WITCHHAZEL	1"-1.5" CAL
SHRUB LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
	AV	3	ARCTOSTAPHYLOS UVA-URSI	BEARBERRY	#1 CONT (6' O.C.)
	AO	3	ARONIA ARBUTIFOLIA	CHOKEBERRY	#3 CONT (6' O.C.)
	CA	23	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#3 CONT (5' O.C.)
	CP	9	COMPTONIA PEREGRINA	SWEETFERN	#3 CONT (6' O.C.)
	KL	7	KALMIA LATIFOLIA	MOUNTAIN LAUREL	#3 CONT (10' O.C.)
	VA	29	VACCINIUM ANGUSTIFOLIUM	LOWBUSH BLUEBERRY	#3 CONT (5' O.C.)

PERENNIAL LIST					
SYMBOL	KEY	QTY	BOTANICAL/CULTIVAR NAME	COMMON NAME	SIZE
	AP	17	ADIANTUM PEDATUM	MAIDENHAIR FERN	#1 CONT (2' O.C.)
	DP	6	DENNSTAEDTIA PUNCTILOBULA	HAY-SCENTED FERN	#1 CONT (3' O.C.)
	OC	6	OSMUNDA CINNAMOMEUM	CINNAMON FERN	#1 CONT (3' O.C.)
	CL	19	POLYGONATUM BIFLORUM	SOLOMON'S SEAL	#1 CONT (1.5' O.C.)
SHADE MEADOW MIX					
SHM		31964 SF	30 LB/ACRE	EQUAL PERCENTAGES OF EACH SPECIES	
				TUFTED HAIR GRASS	
				BLUE RIDGE SEDGE	
				SEDGE	
				COLUMBINE	
				WILD GERANIUM	
				CARDINAL FLOWER	
				FOAMFLOWER	
				BLUE WOOD ASTER	



- LANDSCAPE NOTES:**
 - ALL PROPOSED PLANTING LOCATIONS SHALL BE STAKED AS SHOWN ON THE PLANS FOR FIELD REVIEW BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
 - NO PLANT MATERIALS SHALL BE INSTALLED UNTIL ALL GRADING AND SIDEWALK CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.
 - A 3-INCH DEEP SHREDDED PINE BARK SAUCER SHALL BE INSTALLED UNDER ALL TREES AND SHRUBS, AND IN ALL PLANTING BEDS, AS SHOWN ON THE PLANS, OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
 - ALL TREES SHALL BE BALLED AND BURLAPPED, UNLESS OTHERWISE NOTED, OR APPROVED BY THE LANDSCAPE ARCHITECT.
 - FINAL QUANTITY FOR EACH PLANT TYPE SHALL BE AS SHOWN ON THE PLAN. THIS NUMBER SHALL TAKE PRECEDENCE IN CASE OF ANY DISCREPANCY BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND ON THE PLAN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE NUMBER OF PLANTS SHOWN ON THE PLAN AND PLANT LABELS PRIOR TO BIDDING.
 - ANY PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.
 - ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
 - ALL PLANT MATERIALS SHALL BE MAINTAINED AND GUARANTEED AS SPECIFIED.
 - THIS PLAN IS INTENDED FOR LANDSCAPING PURPOSES ONLY. REFER TO SITE / CIVIL DRAWINGS FOR ALL OTHER SITE CONSTRUCTION INFORMATION.
- PLANT MAINTENANCE NOTES:**
 - CONTRACTOR SHALL PROVIDE COMPLETE MAINTENANCE OF THE PLANTINGS AS SPECIFIED.
 - WATERING SHALL BE REQUIRED DURING THE GROWING SEASON, WHEN NATURAL RAINFALL IS BELOW ONE INCH PER WEEK.
 - CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT FOR THE COMPLETE LANDSCAPE MAINTENANCE WORK.
 - WATER SHALL BE APPLIED IN SUFFICIENT QUANTITY TO THOROUGHLY SATURATE THE SOIL IN THE ROOT ZONE OF EACH PLANT.
 - CONTRACTOR SHALL REPLACE DEAD OR DYING PLANTS DURING AND A MAXIMUM OF ONE MONTH PRIOR TO THE END OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.
- IRRIGATION NOTES:**
 - IRRIGATE AREAS WITHIN LIMITS OF IRRIGATION SHOWN. SEE IRRIGATION PLAN AND DETAILS. SEE SPECIFICATIONS FOR AUTOMATIC IRRIGATION SYSTEM.

				DESIGNED BY: <u>WATKINS/GUILFOIL</u>				CDM Smith 75 State Street Boston, MA 02109 Tel: (617) 452-6000				CITY OF WATERTOWN, MASSACHUSETTS				LANDSCAPING PLAN V				PROJECT NO. 56318-253750			
				DRAWN BY: <u>WATKINS/GUILFOIL</u>																FILE NAME: C006STPL			
				SHEET CHK'D BY: <u>G.HOWARD</u>																SHEET NO. L-20			
				CROSS CHK'D BY: <u>--</u>																			
				APPROVED BY: <u>G.HOWARD</u>				ARSENAL PARK IMPROVEMENTS PROJECT PHASE B															
				DATE: <u>DECEMBER 2021</u>																			
REV. NO.	DATE	DRWN	CHKD	REMARKS																			

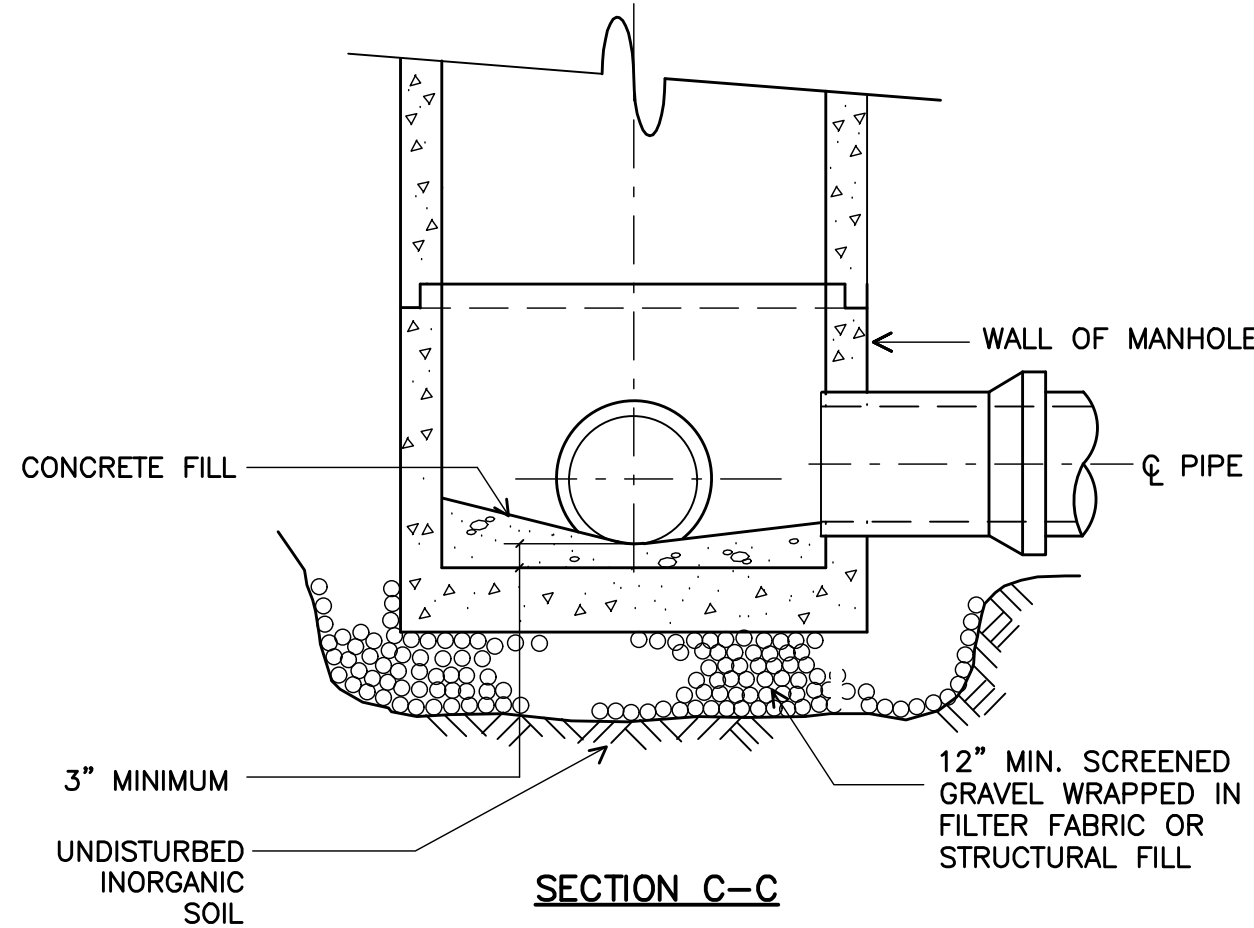
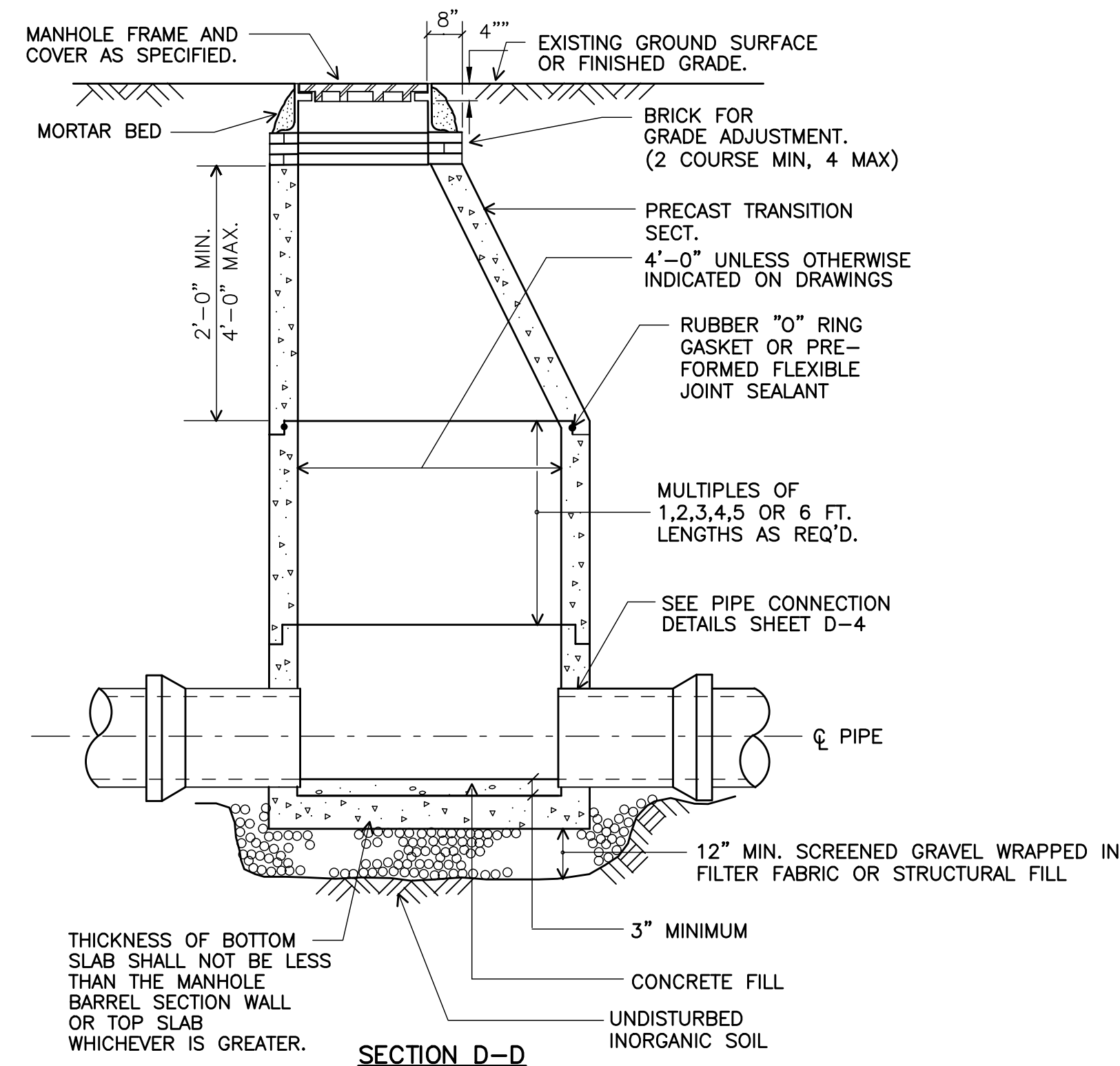
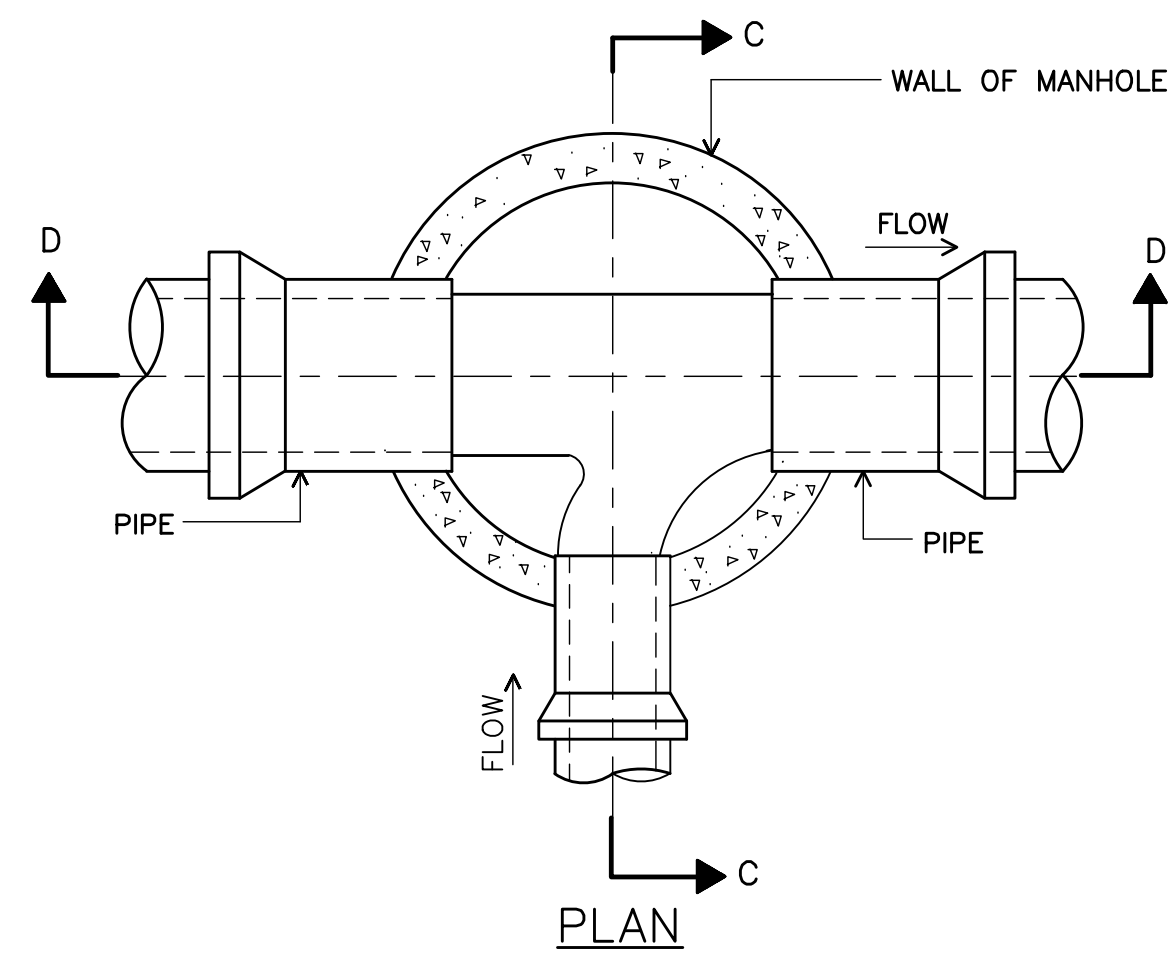


**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

DETAILS I

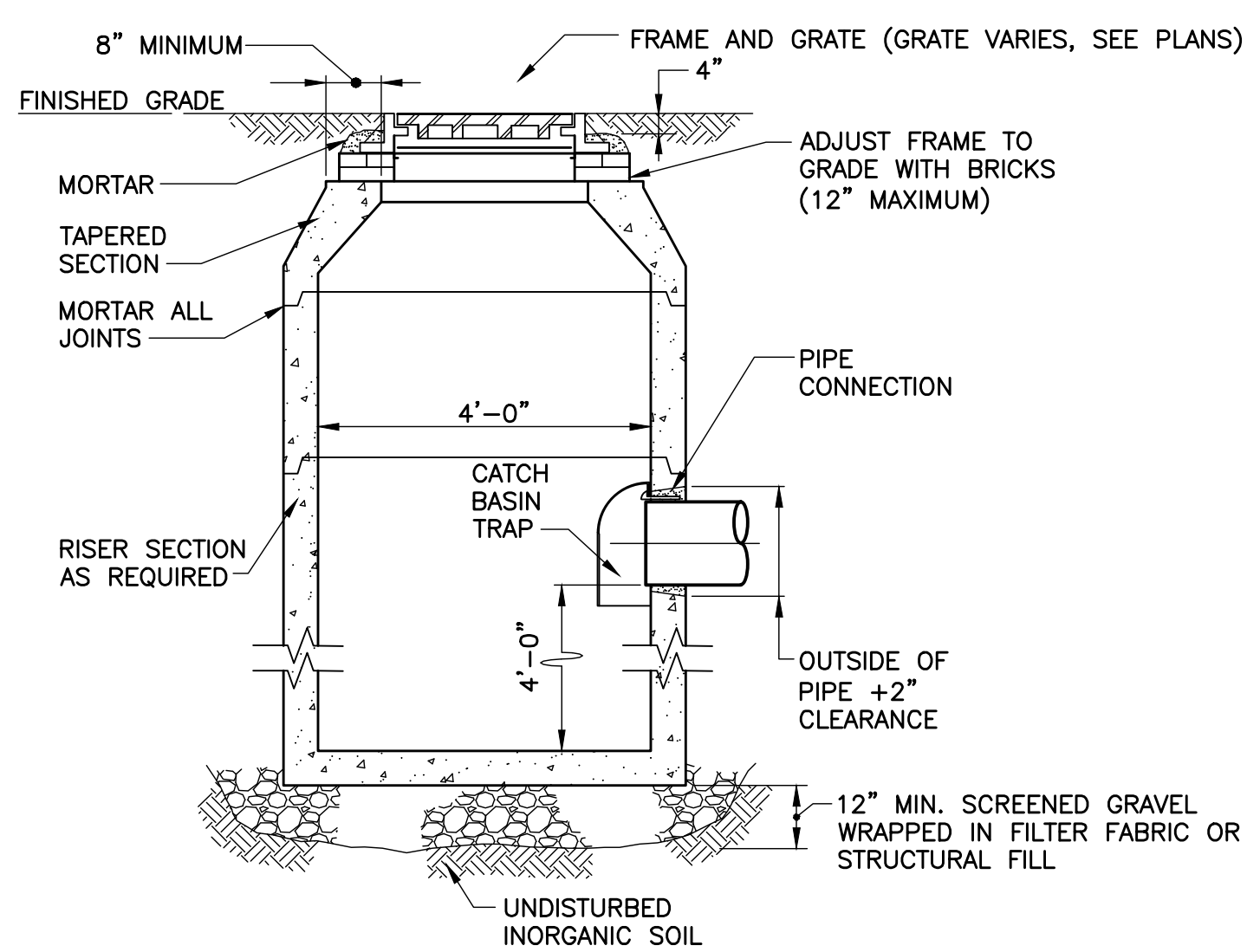
PROJECT NO. 56318-253750
FILE NAME: C007STPL
SHEET NO.
D-1

XREFs: [CDMS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
p:\w\cdmsmith-ar02-pw.bentley.com\pw_pl1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NINT.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



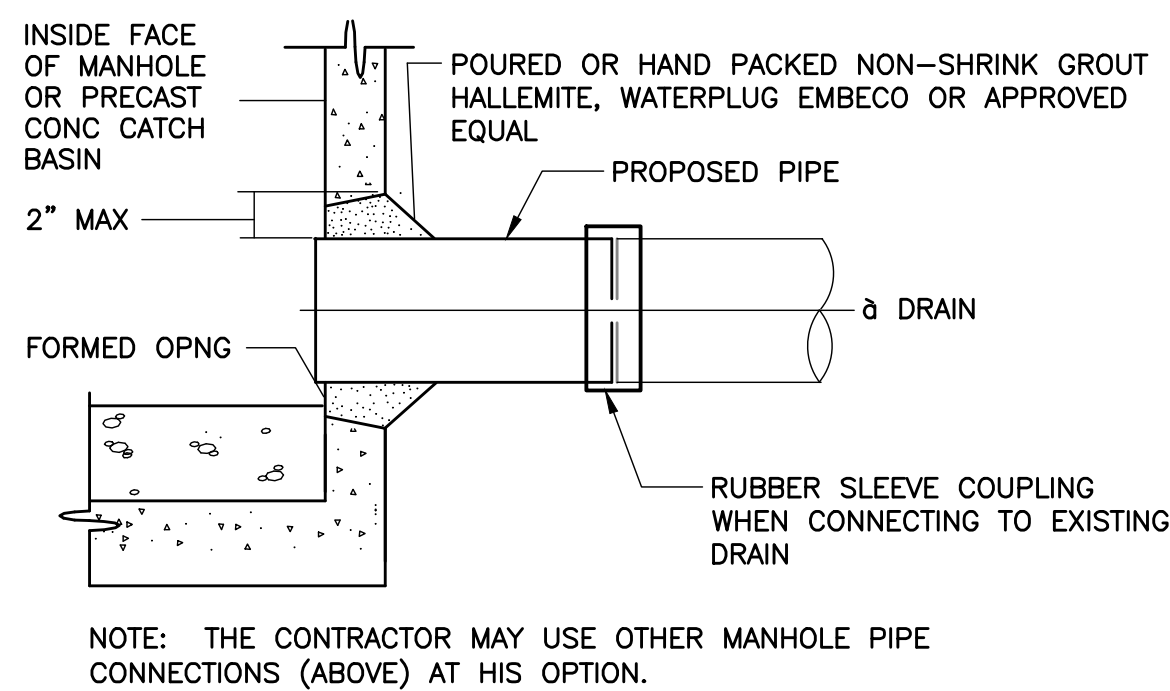
TYPICAL PRECAST DRAIN MANHOLE

DETAIL 1
NOT TO SCALE D-2



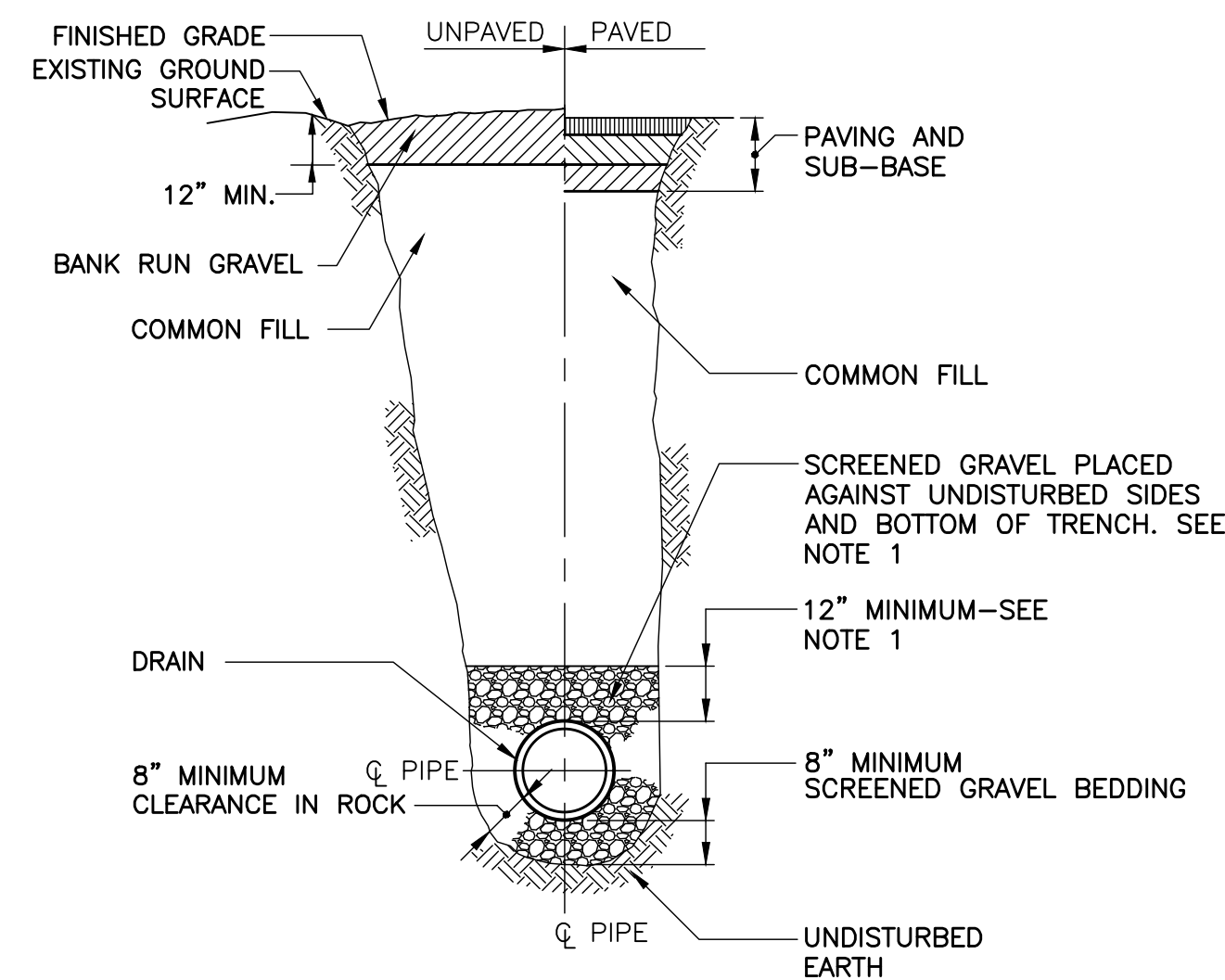
PRECAST CONCRETE CATCH BASIN

DETAIL 2
NOT TO SCALE D-2



DRAIN MANHOLE PIPE CONNECTION DETAIL

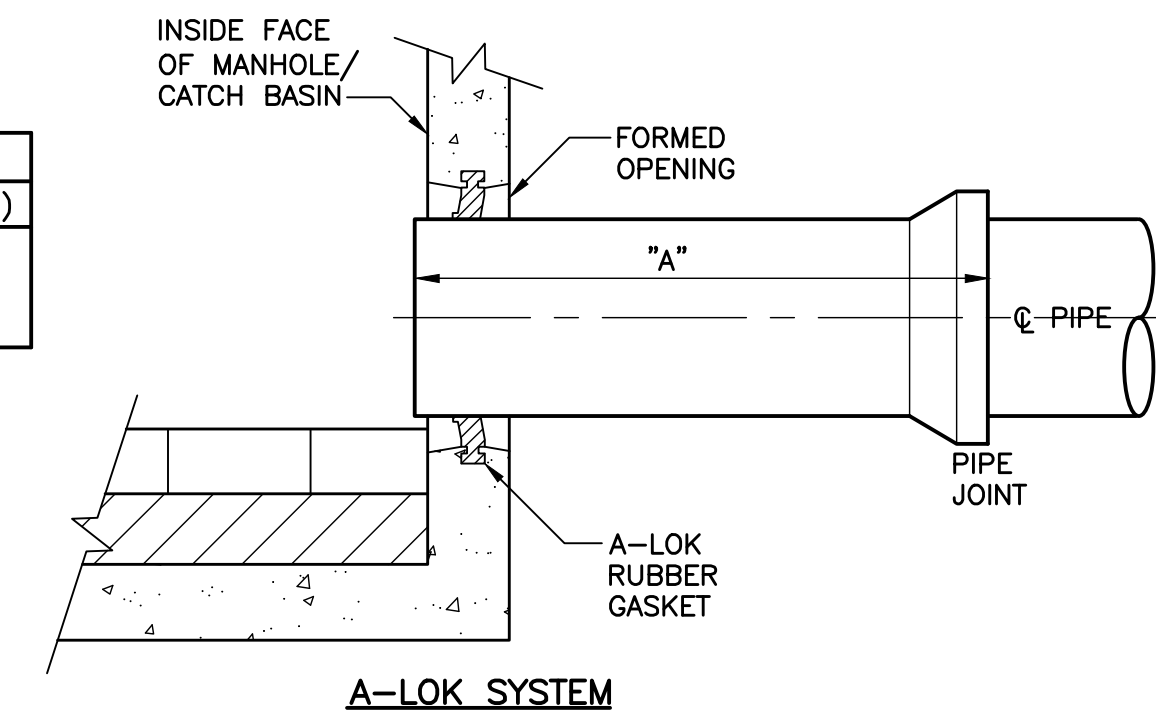
DETAIL 3
NOT TO SCALE D-2



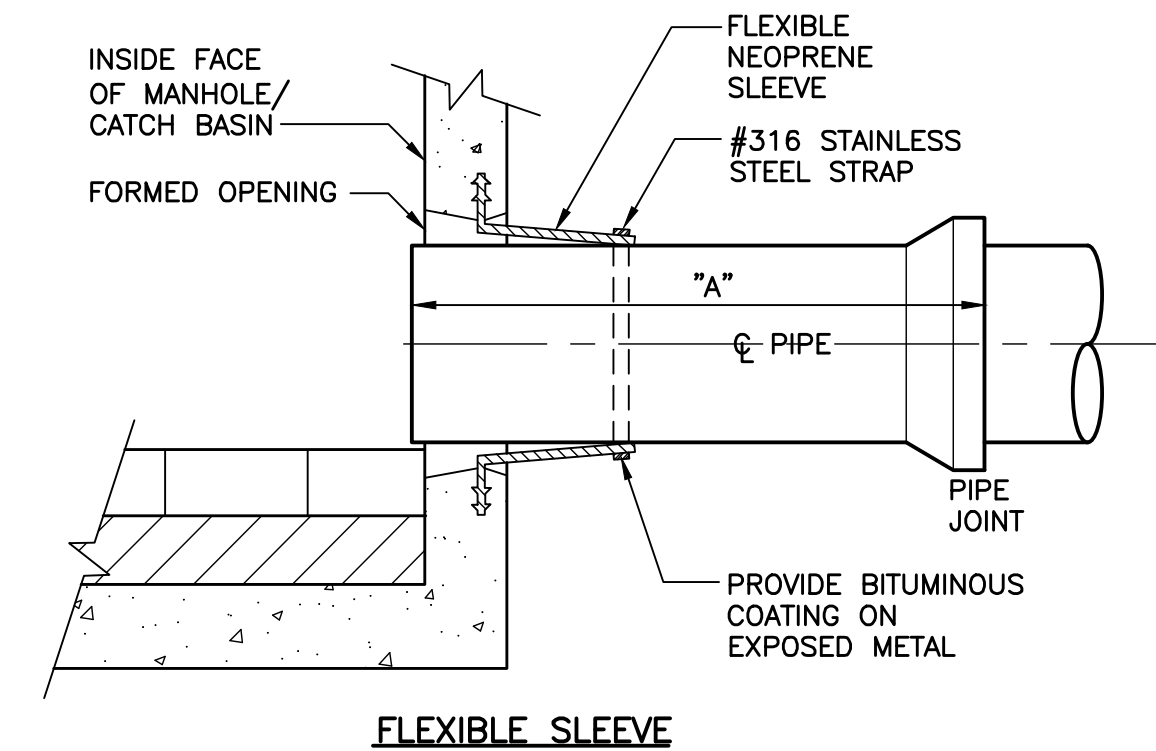
TYPICAL TRENCH FOR GRAVITY PIPE AND SEWER FORCE MAIN

DETAIL 4
NOT TO SCALE D-2

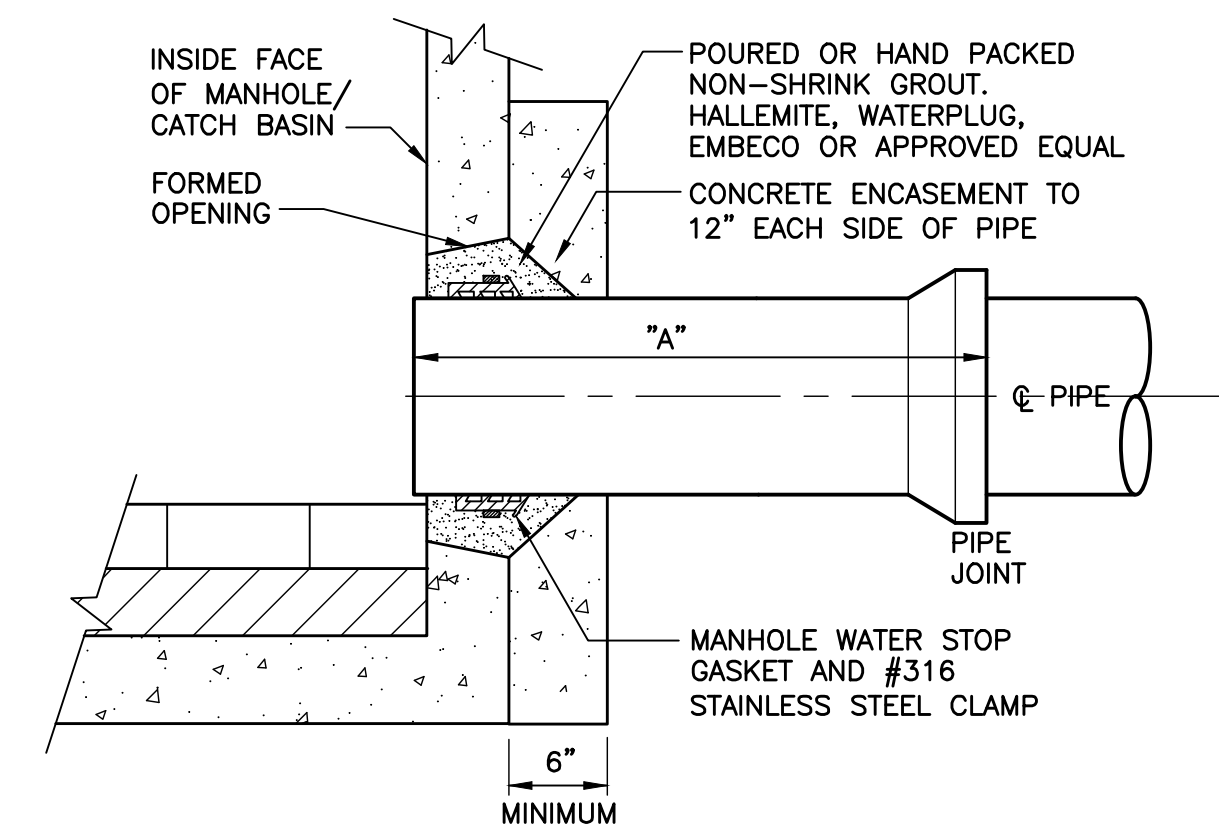
PIPE MATERIAL	"A" (MAX.)
RC	4'-0"
PVC	3'-3"
DI	4'-6"



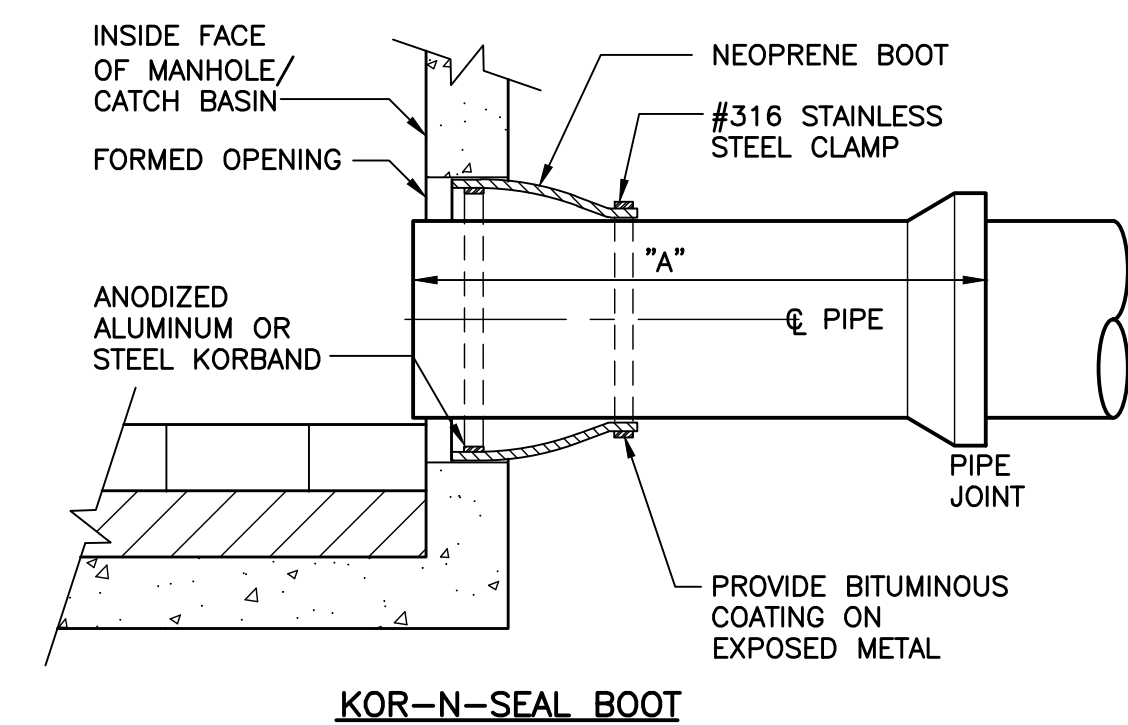
A-LOK SYSTEM



FLEXIBLE SLEEVE



CONCRETE ENCASEMENT



KOR-N-SEAL BOOT

OTHER PIPE CONNECTIONS

DETAIL 5
NTS D-2

NOTES:

- FOR PIPES OTHER THAN PVC AND HDPE, SELECT COMMON FILL MAY BE USED FROM MID-DIAMETER OF PIPE TO 12" ABOVE TOP OF PIPE.
- TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE THE SAME AS IN STREET EXCEPT FOR PAVING. PROVIDE AT LEAST ONE IMPERVIOUS DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE OR EVERY 300 FT., WHICHEVER IS LESS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

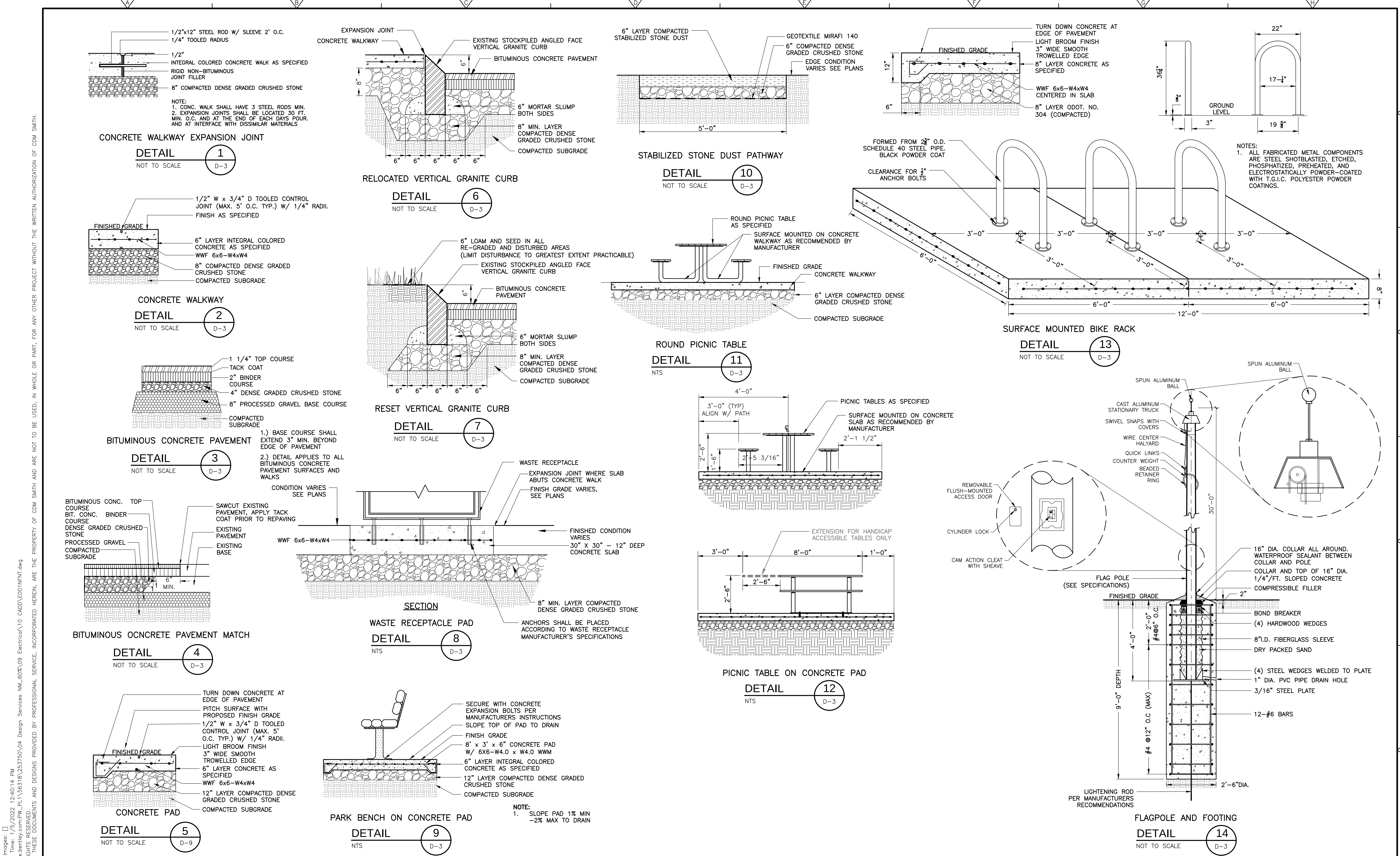
DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

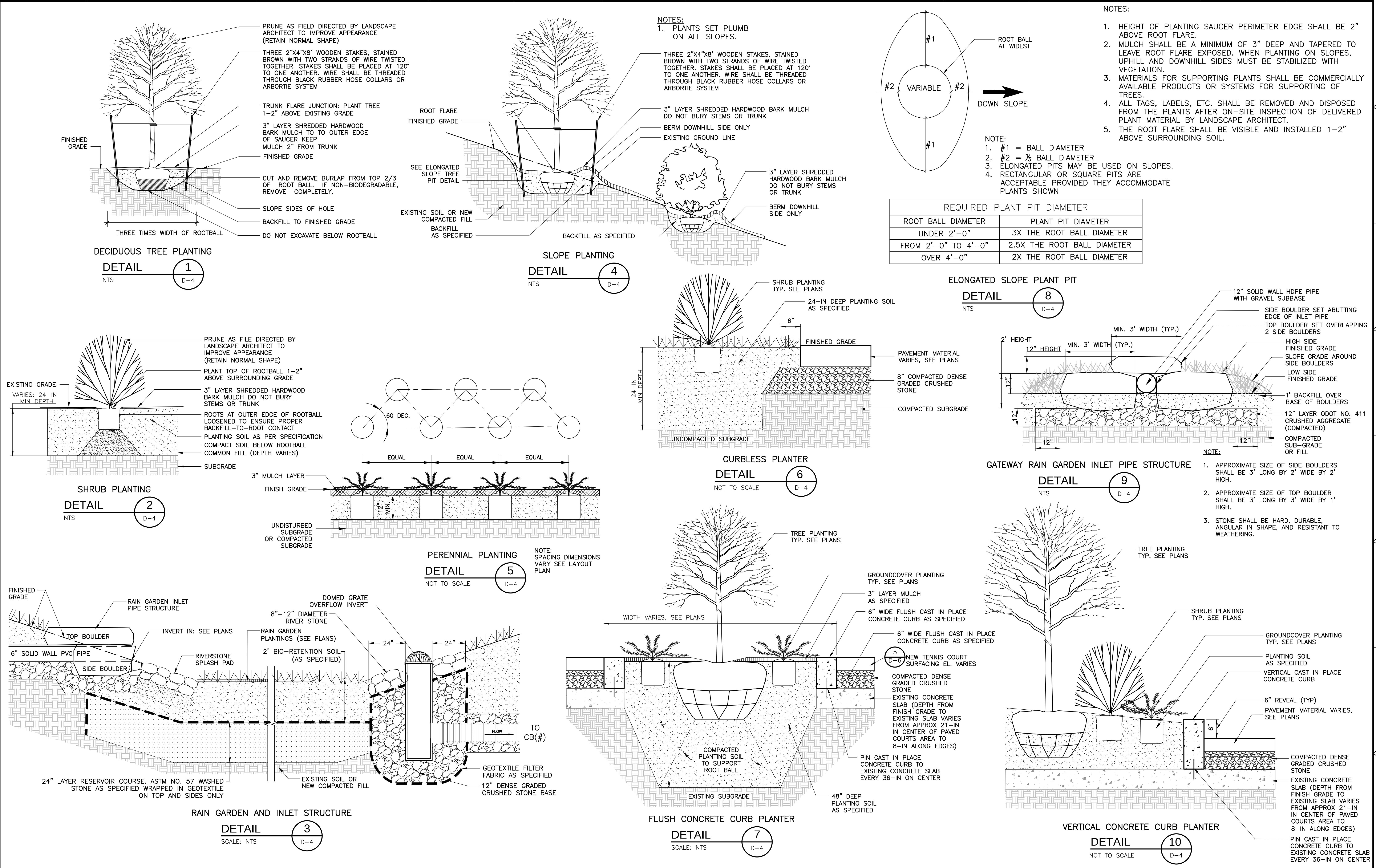
DETAILS II

PROJECT NO. 56318-253750
FILE NAME: C008STDT
SHEET NO.
D-2



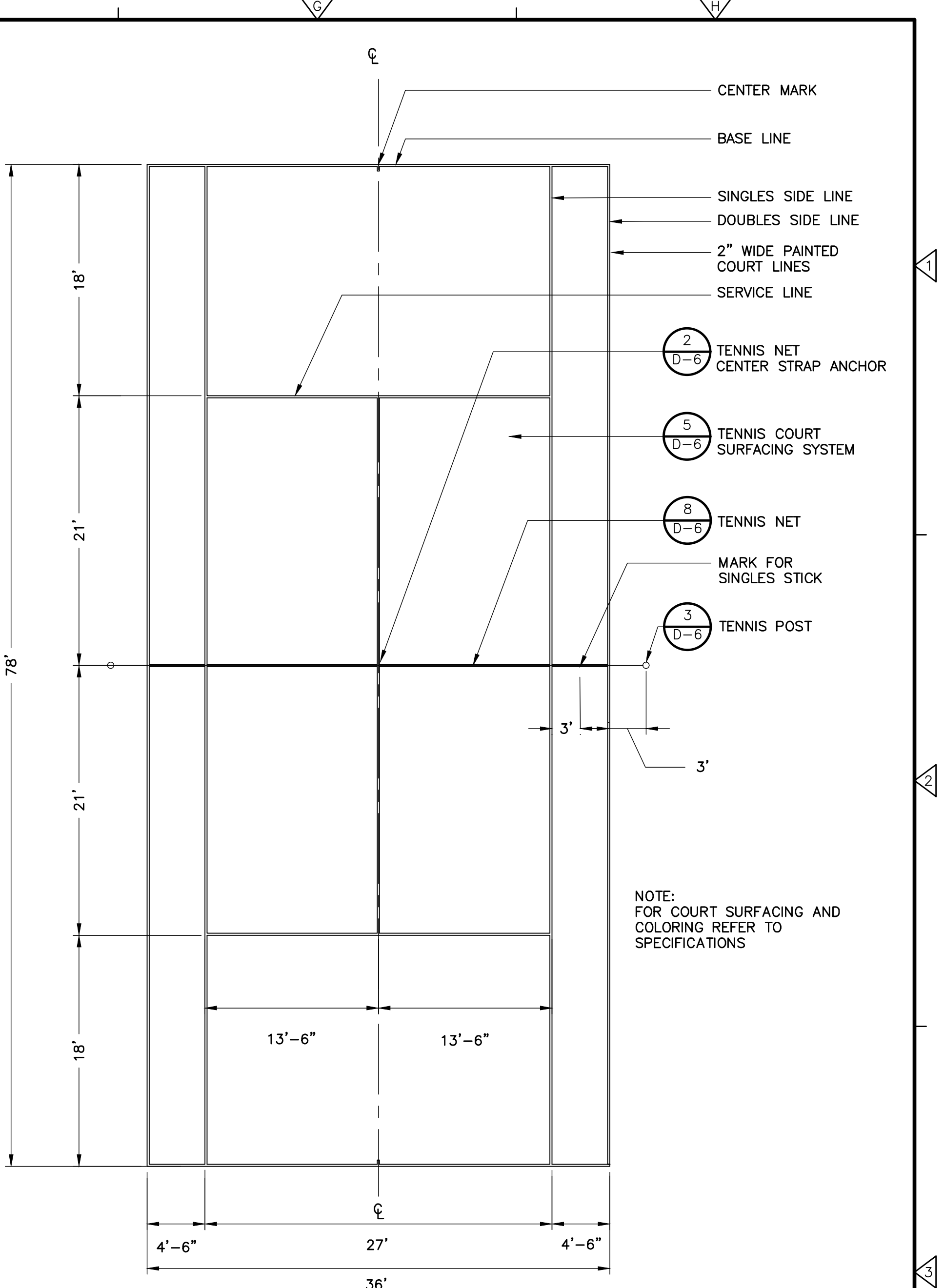
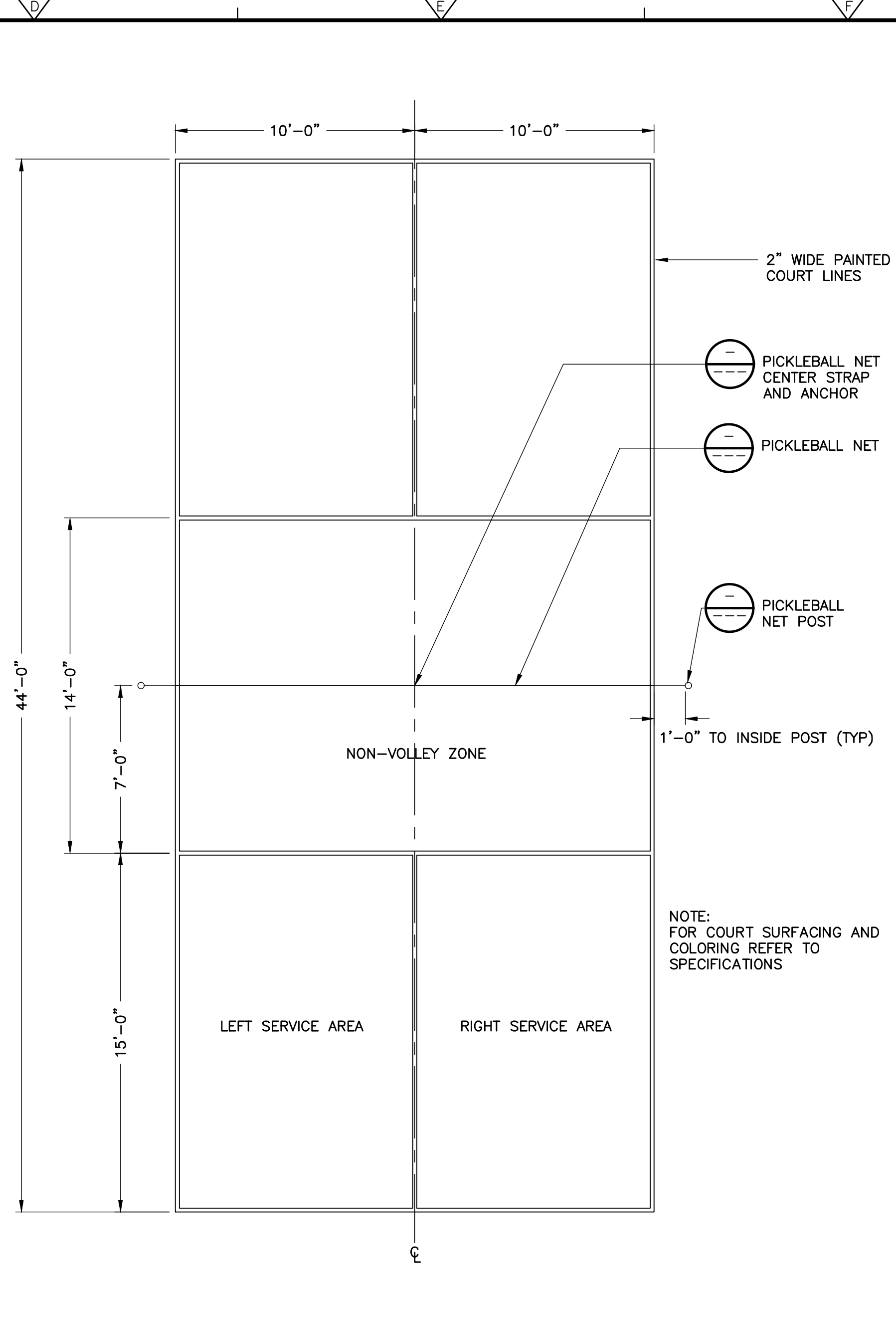
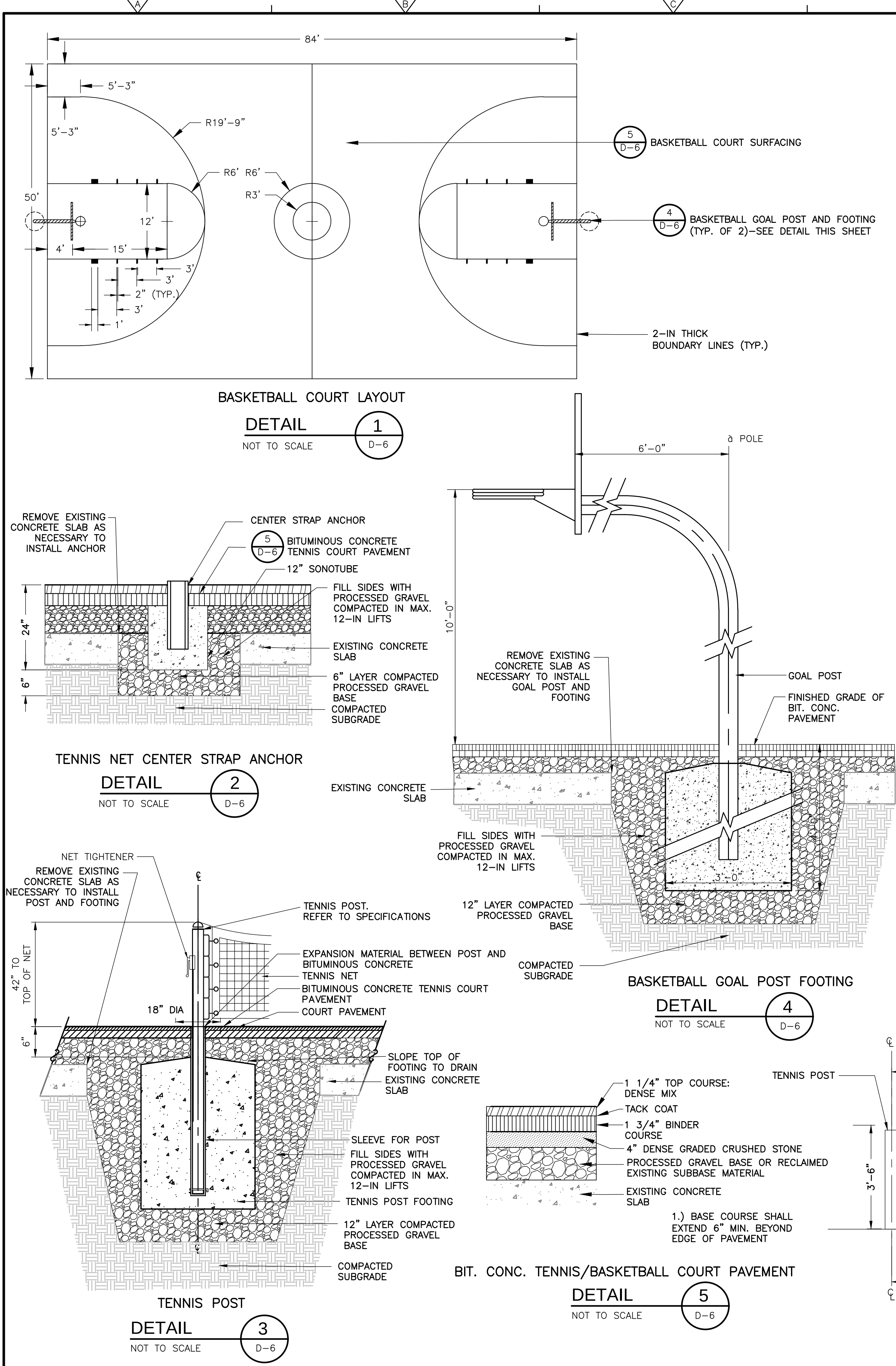
DESIGNED BY: WATKINS/GUILFOIL				CITY OF WATERTOWN, MASSACHUSETTS				PROJECT NO. 56318-253750			
DRAWN BY: WATKINS/GUILFOIL				ARSENAL PARK IMPROVEMENTS PROJECT				FILE NAME: C009STD			
SHEET CHK'D BY: G.HOWARD				PHASE B				SHEET NO.			
CROSS CHK'D BY: ---				DETAILS III				D-3			
APPROVED BY: G.HOWARD											
DATE: DECEMBER 2021											
CDM Smith											
75 State Street Boston, MA 02109 Tel: (617) 452-6000											
REV. NO. DATE DRWN CHKD REMARKS											

XREFs: [CDWS_2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM
© 2021 CDM SMITH. ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



				DESIGNED BY: <u>WATKINS/GUILFOIL</u>	75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS	ARSENAL PARK IMPROVEMENTS PROJECT PHASE B	DETAILS IV	PROJECT NO: 56318-253750 FILE NAME: C010STD01	SHEET NO. D-4
				DRAWN BY: <u>WATKINS/GUILFOIL</u>						
				SHEET CHK'D BY: <u>G.HOWARD</u>						
				CROSS CHK'D BY: <u>G.HOWARD</u>						
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>DECEMBER 2021</u>					

XREFs: [CDMS_2436] Images: []
Last saved by: EGANUP Time: 1/5/2022 12:40:14 PM
pw:\cdmsmith-ar02-pw.bentley.com\pw_pl1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NINT.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



DESIGNED BY: WATKINS/GUILFOIL	CDM Smith
DRAWN BY: WATKINS/GUILFOIL	75 State Street
SHEET CHK'D BY: G.HOWARD	Boston, MA 02109
CROSS CHK'D BY: ---	Tel: (617) 452-6000
APPROVED BY: G.HOWARD	
DATE: DECEMBER 2021	

REV. NO.	DATE	DRWN	CHKD	REMARKS

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DETAILS VI
SHEET NO.
D-6

PROJECT NO. 56318-253750
FILE NAME: C012STD
90% SUBMITTAL - NOT FOR CONSTRUCTION
Page 35 of 57

DETAIL 1
NOT TO SCALE D-7

DETAIL 2
NOT TO SCALE D-7

DETAIL 3
NOT TO SCALE D-7

DETAIL 4
NOT TO SCALE D-7

DETAIL 5

NTS D-7

SECTION A-A'
BACKSTOP FOOTING

NOTES:

1. INTERMEDIATE RAILS TO BE 1½" IN. DIA.
2. WIRE FASTENERS, BARBANDS, ETC. SHALL BE USED IN THE SAME MANNER AS FOR CHAINLINK FENCE
3. INSTALL FABRIC ON INFIELD SIDE OF BACKSTOP

1/4" GALV'D LUGS 2" X 4" WELDED TO PIPE FRAME

1/2" GALV'D BOLT

PLAN VIEW

DETAIL C
NOT TO SCALE

1/2" GALV'D BOLT

FRONT VIEW

1/4" GALV'D LUGS WELDED TO POST

FRONT VIEW

DETAIL E
NOT TO SCALE

SIDE VIEW

4" O.D. POST

BOLT FITTING TO BRACE

DETAIL 6
NOT TO SCALE D-7

CHAIN LINK BACKSTOP _____
1.9" O.D. SCHEDULE 40 RAIL DRILLED TO
RECEIVE LAG SCREWS 18" O.C., FASTEN
CLF TO RAIL WITH WIRE TIES 18" O.C.

FRONT ELEVATION
NOT TO SCALE

SECTION ON CL
NOT TO SCALE:

[illegible]

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: --
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021

**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DETAILS VII

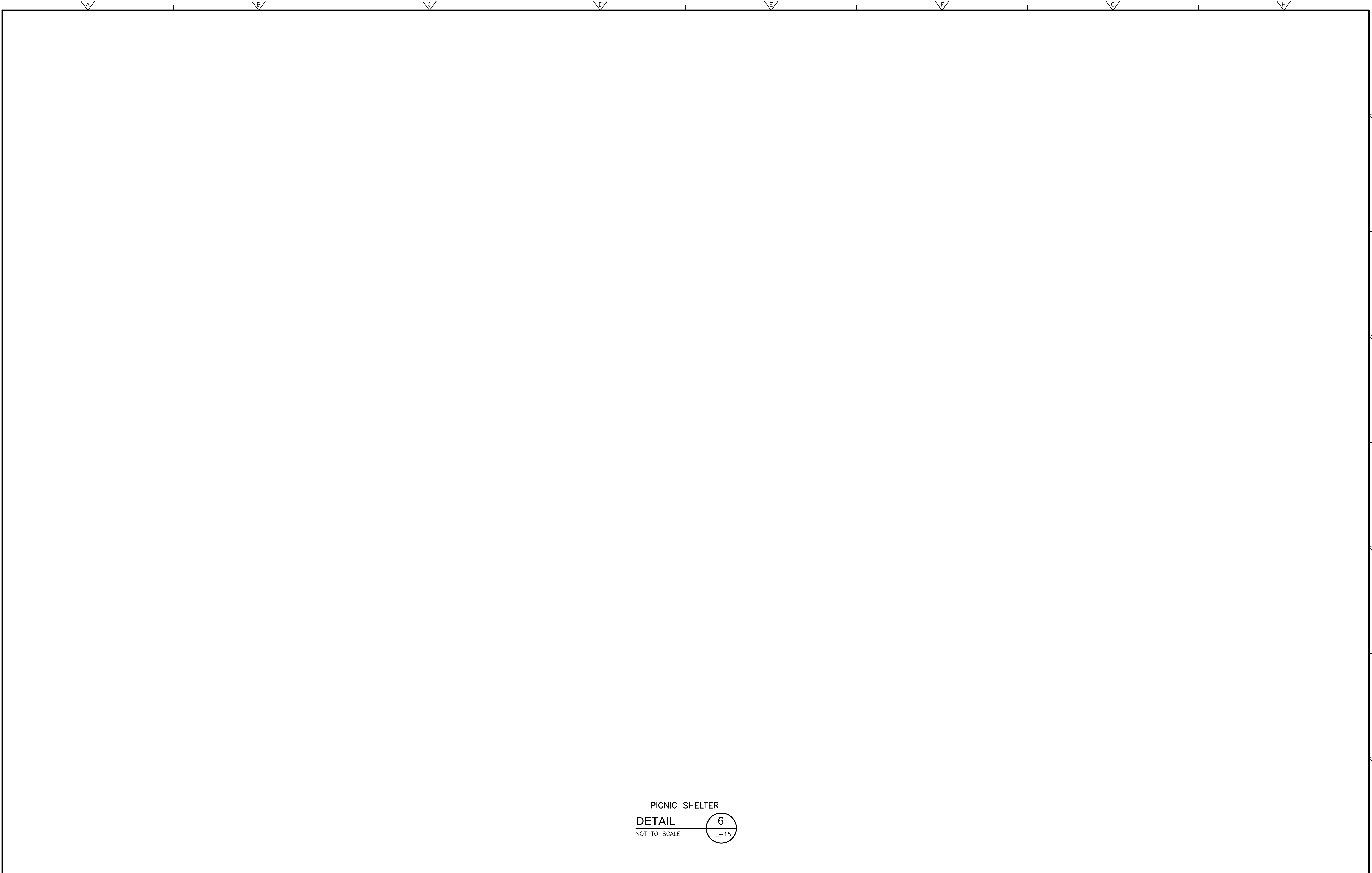
PROJECT NO. 56318-253750
FILE NAME: C013STD1
SHEET NO.
D-7

XPREFs: [CDMS_2436] Images: 

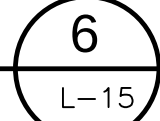
Last saved by: EGANJP Time: 1/5/2022 12:40:14 PM

pw:\cdmsmith-ar02-pw.bentley.com\PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NFNT.dwg

© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

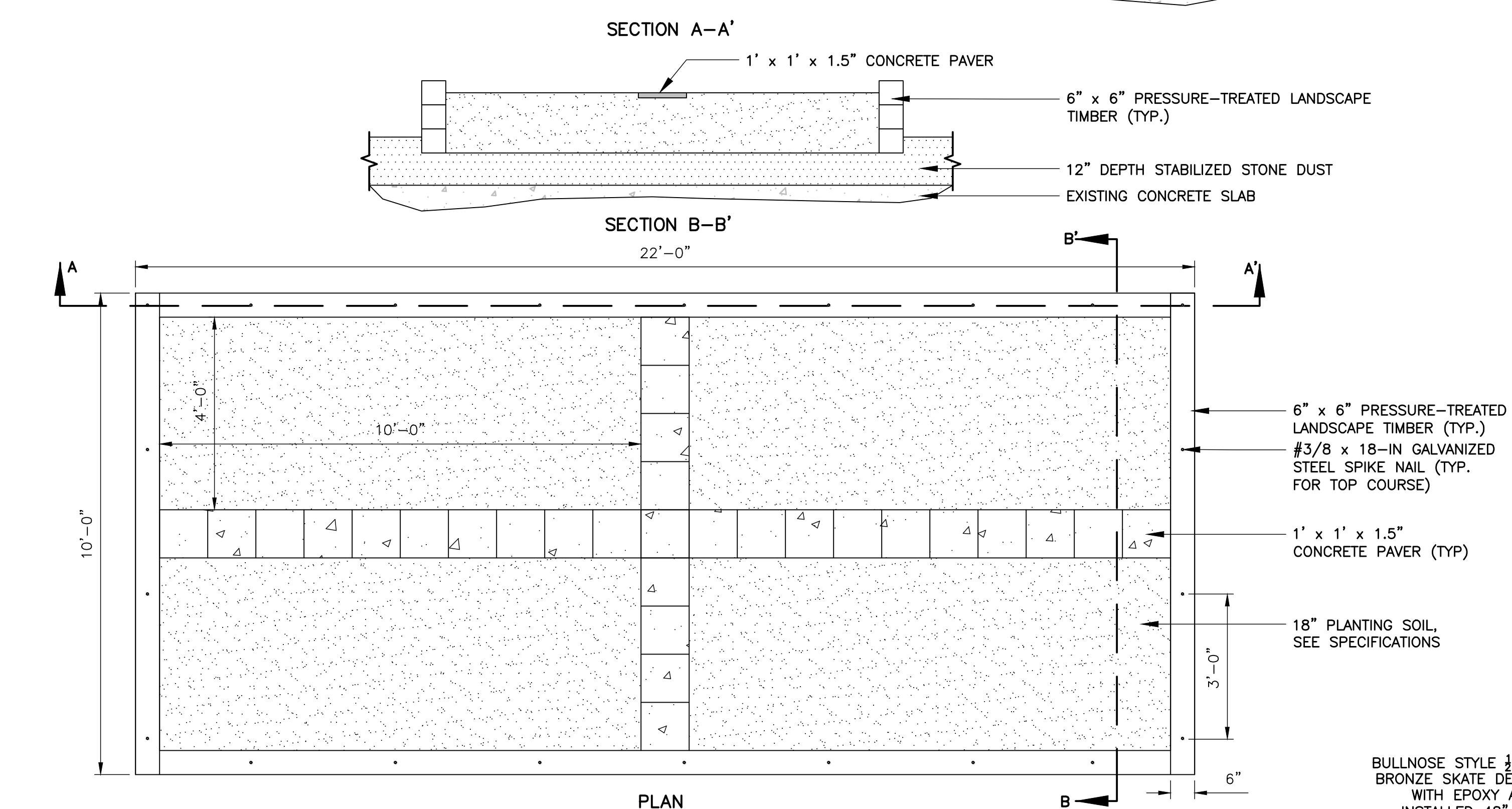
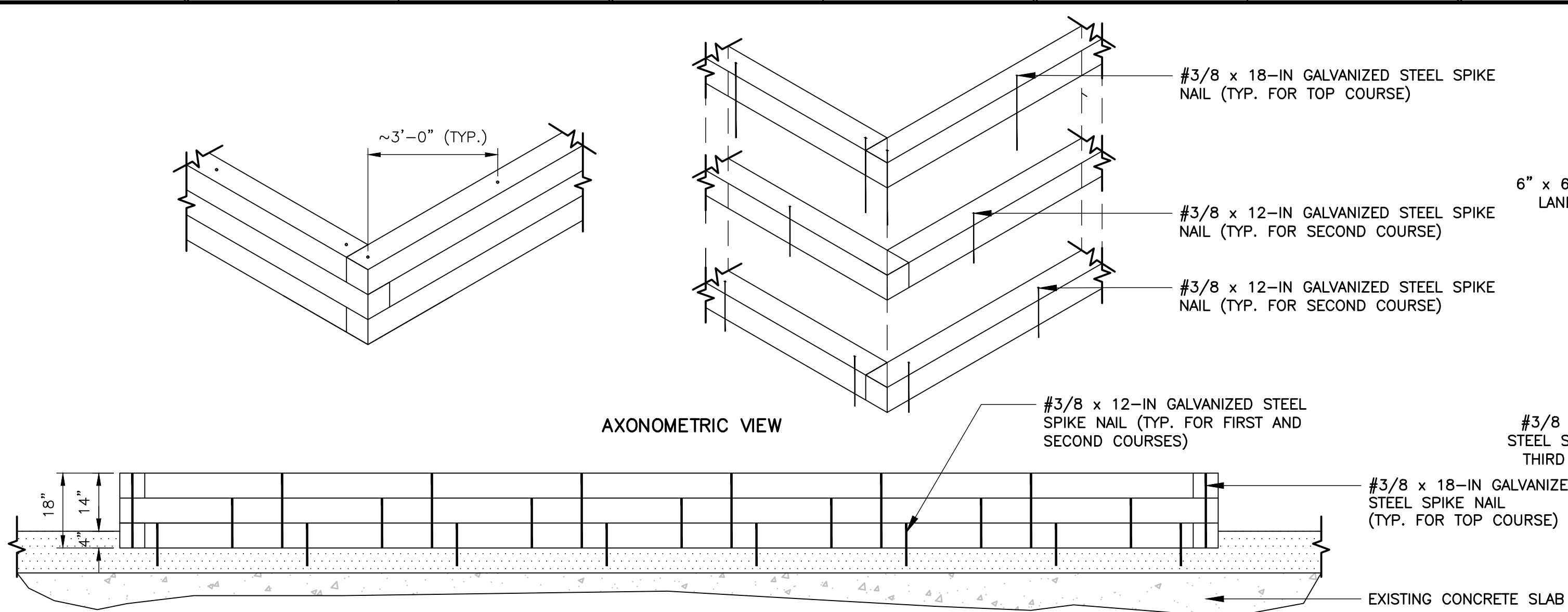


PICNIC SHELTER
DETAIL
NOT TO SCALE



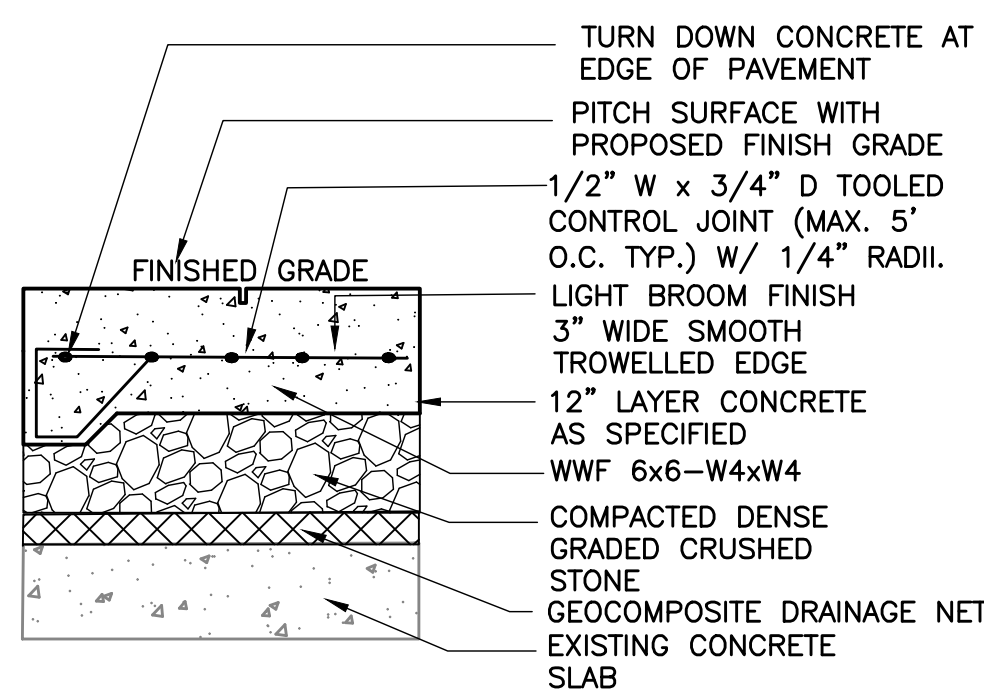
					DESIGNED BY: <u>WATKINS/GUILFOIL</u>	CDMSmith 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS ARSENAL PARK IMPROVEMENTS PROJECT PHASE B	DETAILS VIII	PROJECT NO. 56318-253750 FILE NAME: C014STDT
					DRAWN BY: <u>WATKINS/GUILFOIL</u>				SHEET NO. D-8
					SHEET CHK'D BY: <u>G.HOWARD</u>				
					CROSS CHK'D BY: <u>---</u>				
					APPROVED BY: <u>G.HOWARD</u>				
REV. NO.	DATE	DRWN	CHKD	REMARKS	DATE: <u>DECEMBER 2021</u>				

XREFs: [CDWS_2436] Images: []
Last saved by: EGANUP Time: 1/5/2022 12:40:14 PM
pww\cdmsmith-ar02-pw.bentley.com\PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CADD\E001NFIN.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



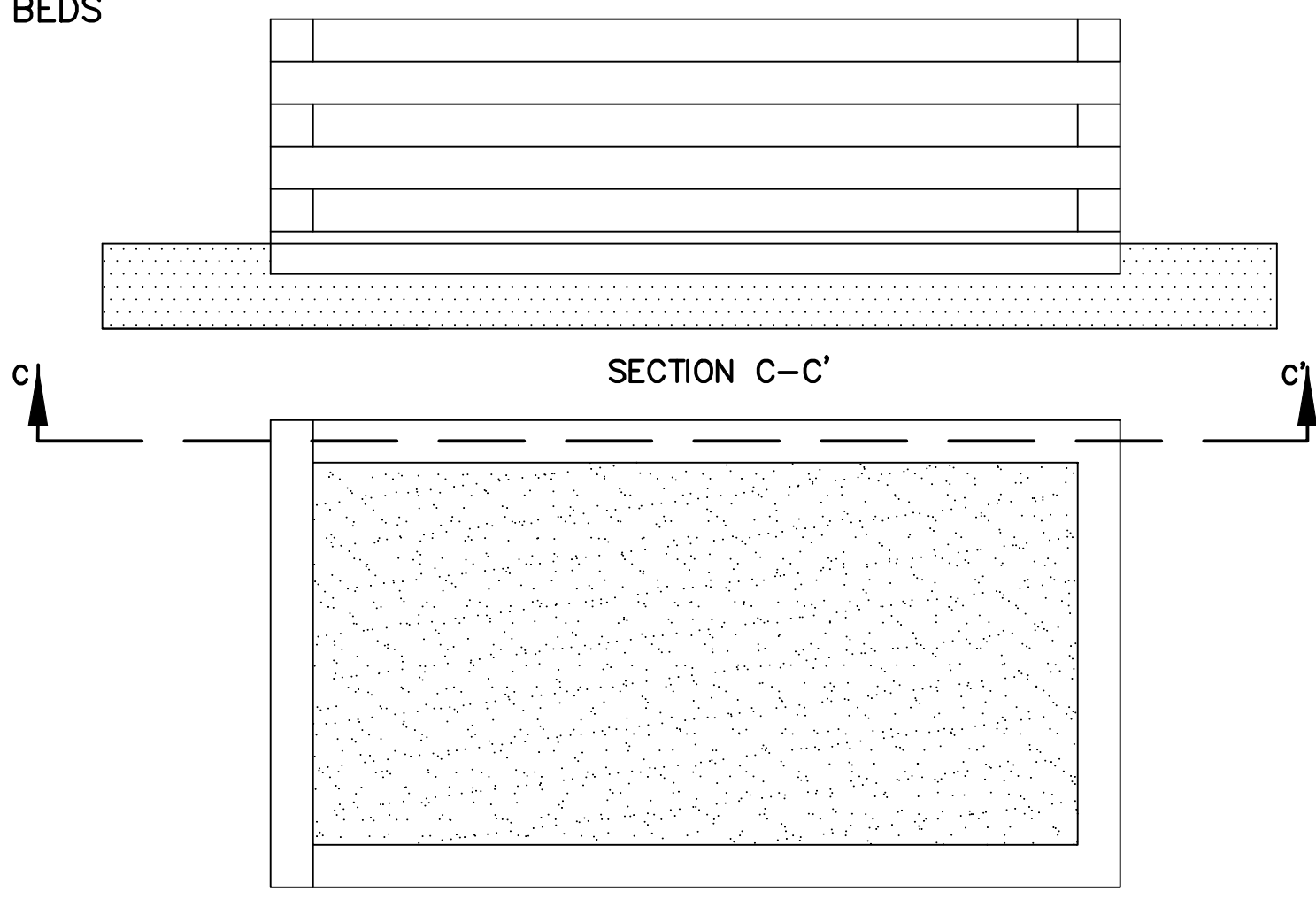
22' x 10' COMMUNITY GARDEN BEDS

DETAIL 1
NOT TO SCALE
D-9



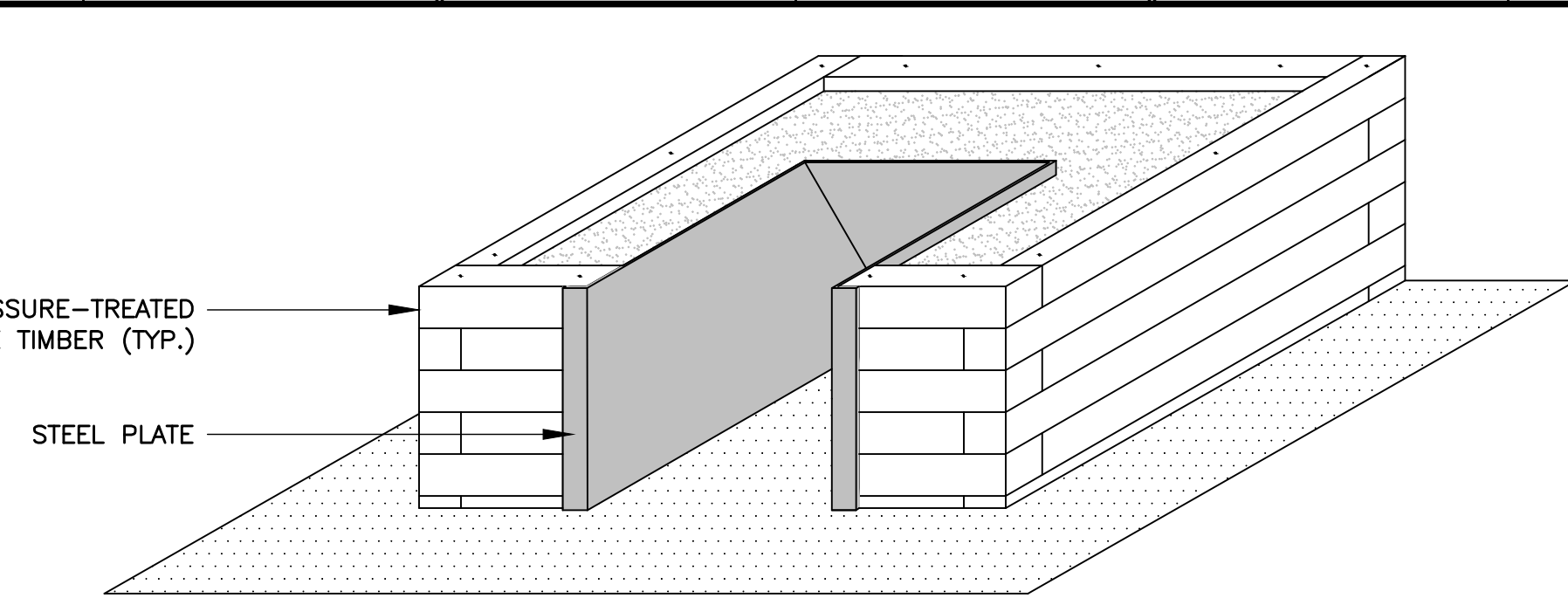
CONCRETE PAD FOR PREFABRICATED SHED

DETAIL 2
NOT TO SCALE
D-9

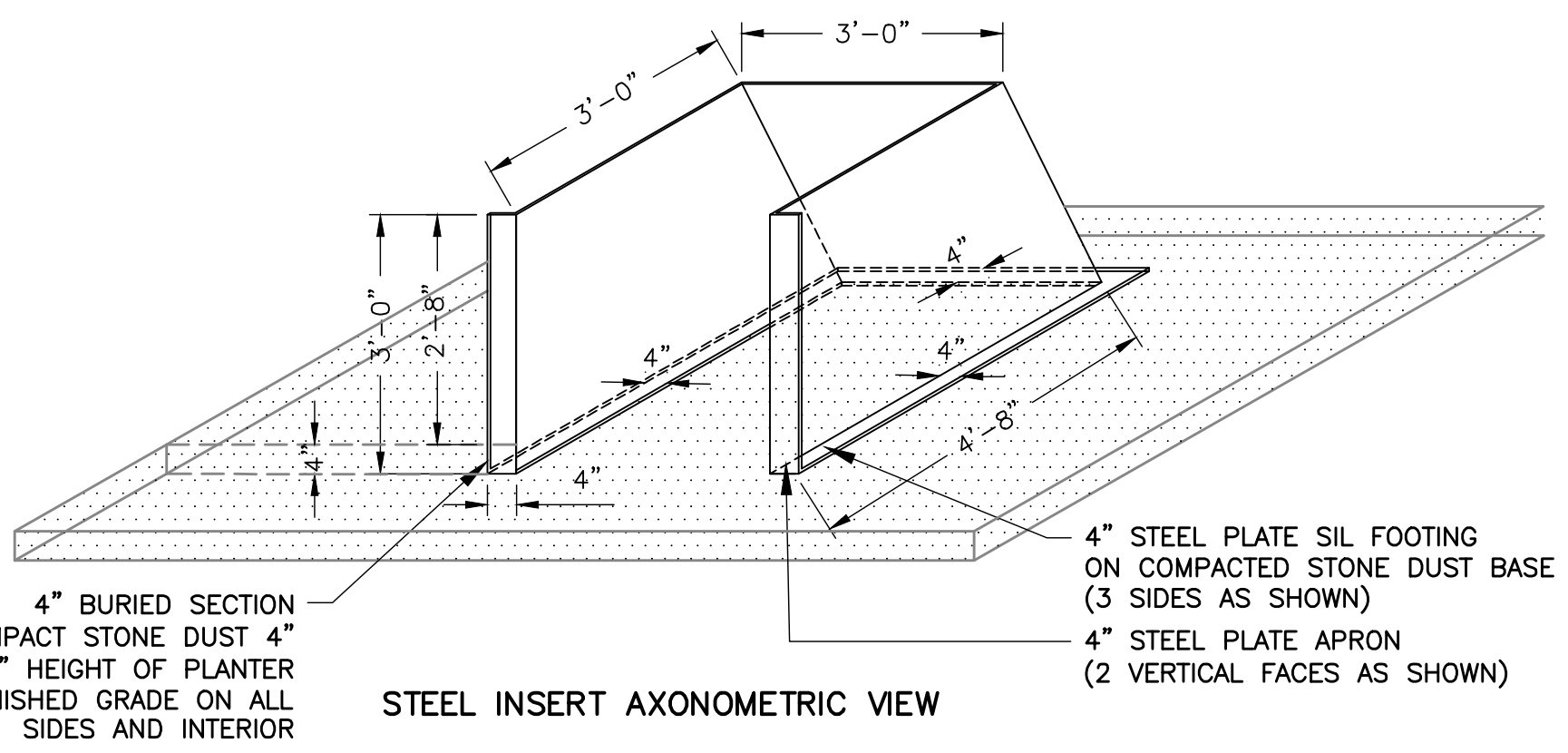
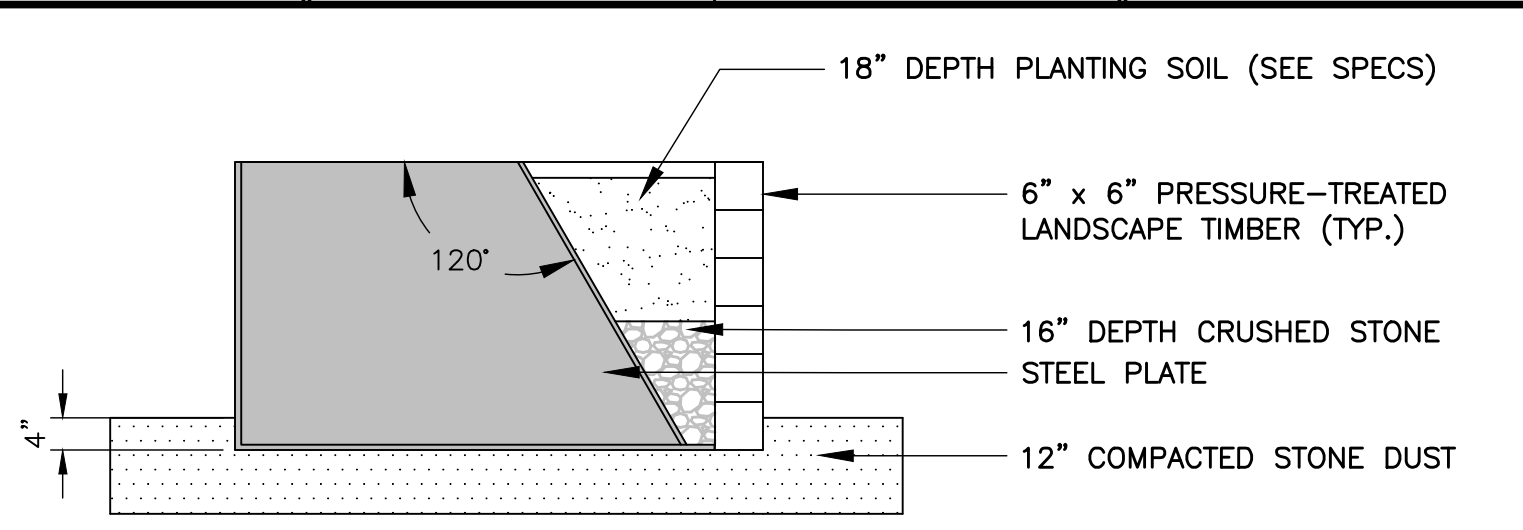
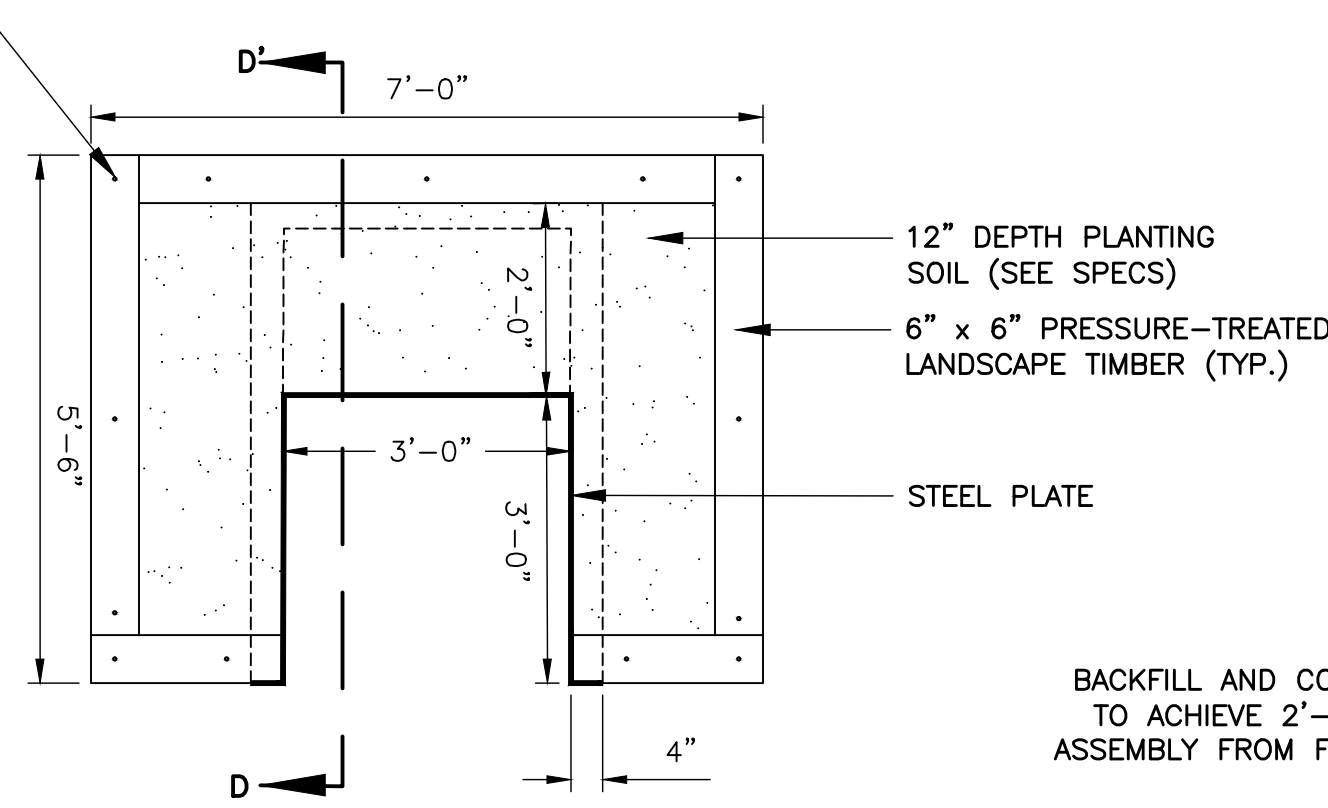


10' x 5.5' COMMUNITY GARDEN BEDS

DETAIL 4
NOT TO SCALE
D-9

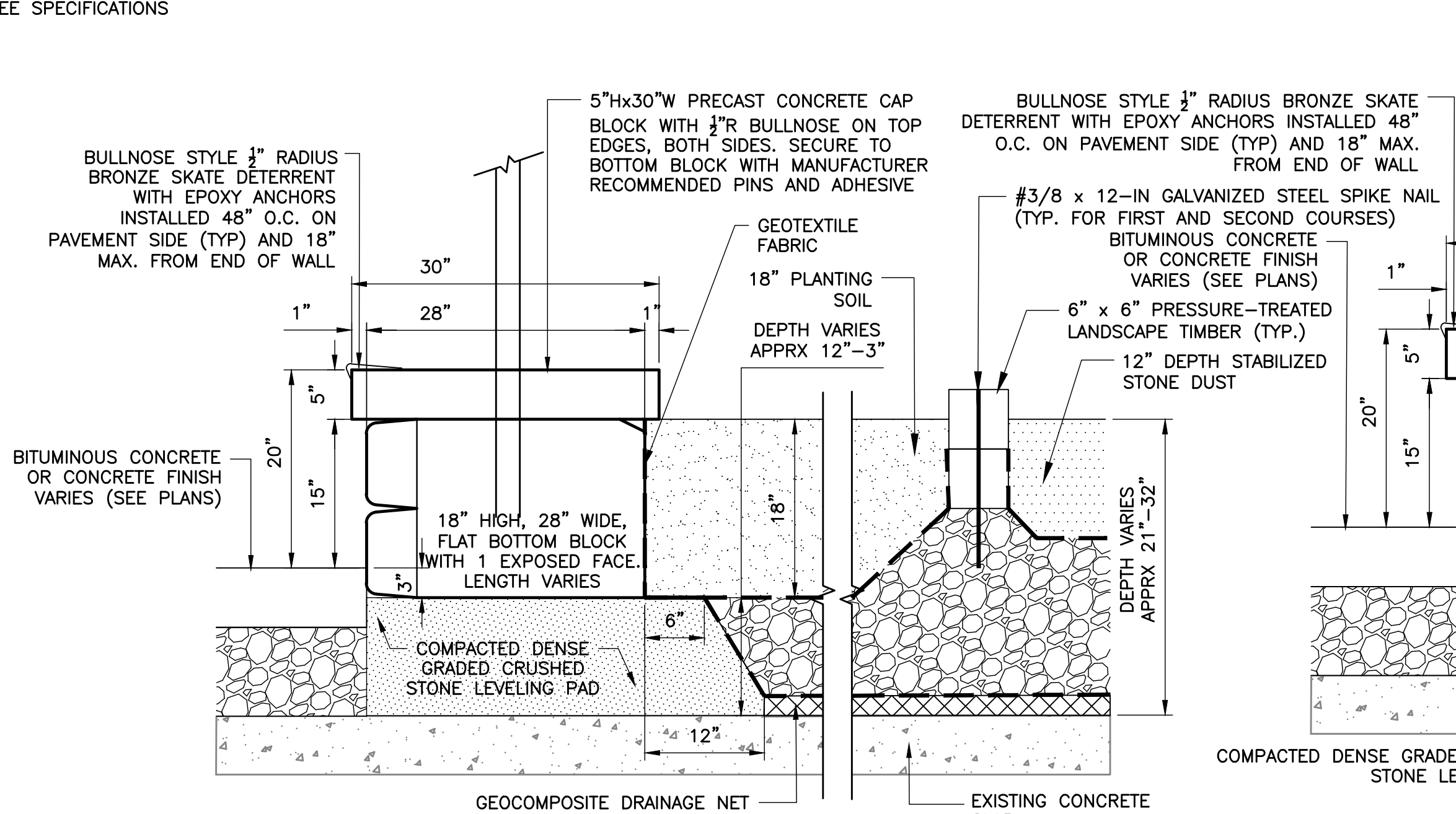


FULL ASSEMBLY AXONOMETRIC VIEW



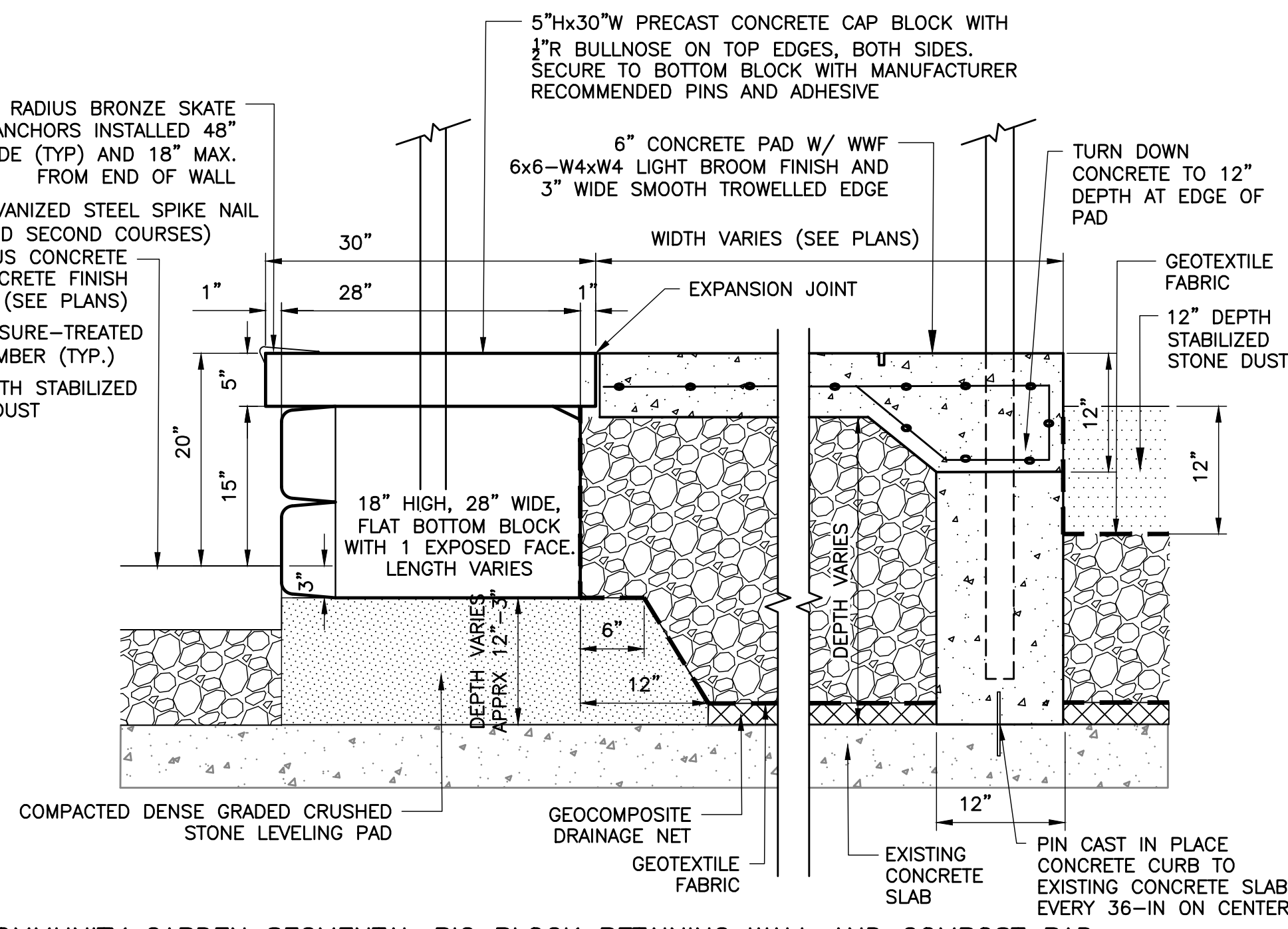
FABRICATED STEEL AND TIMBER ADA ACCESSIBLE PLANTER PODS

DETAIL 2
NOT TO SCALE
D-9



COMMUNITY GARDEN SEGMENTAL BIG BLOCK RETAINING WALL

DETAIL 5
NTS
D-9



COMMUNITY GARDEN SEGMENTAL BIG BLOCK RETAINING WALL AND COMPOST PAD

DETAIL 5
NTS
D-9

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: WATKINS/GUILFOIL
DRAWN BY: WATKINS/GUILFOIL
SHEET CHK'D BY: G.HOWARD
CROSS CHK'D BY: ---
APPROVED BY: G.HOWARD
DATE: DECEMBER 2021



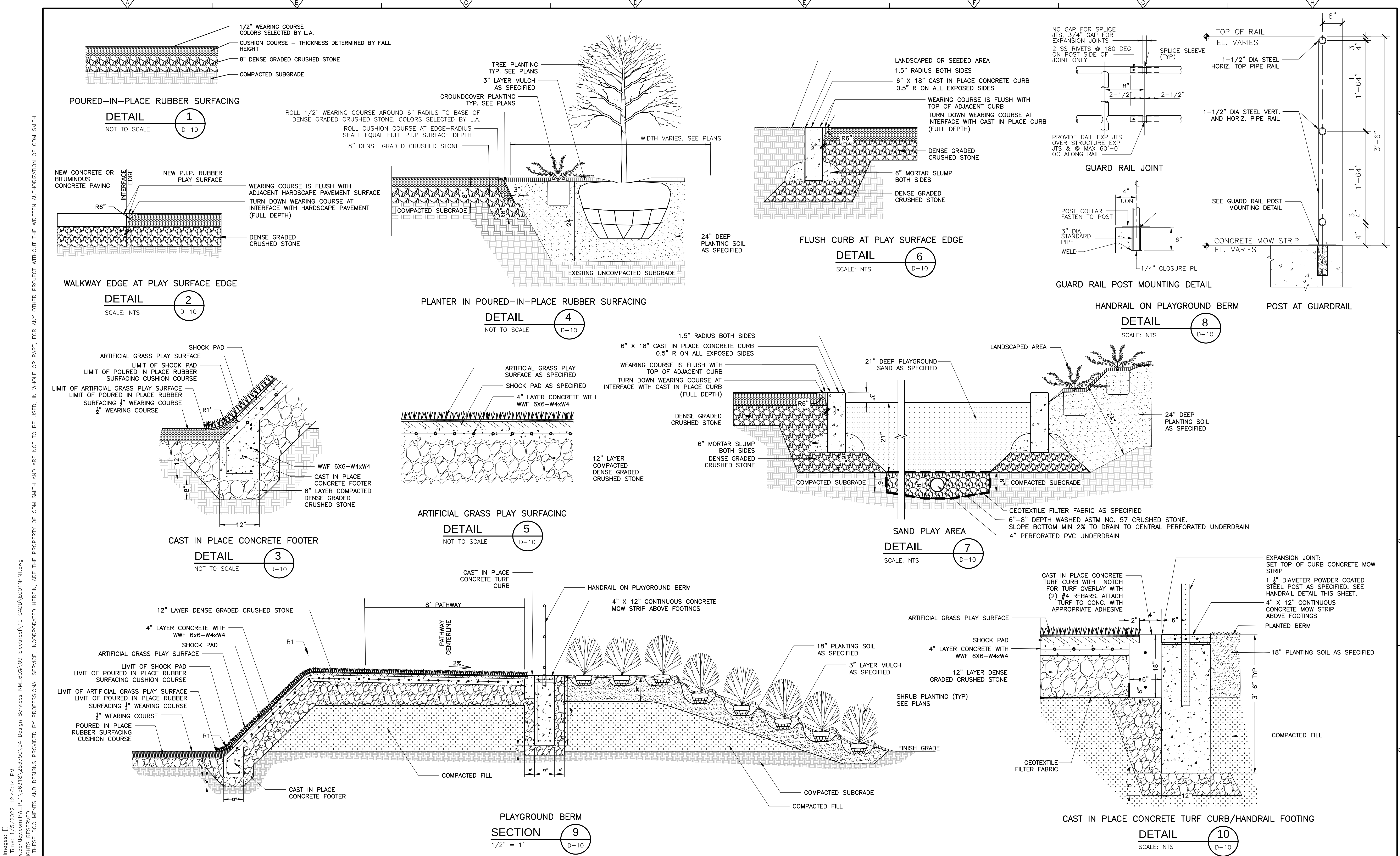
CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT

PHASE B

DETAILS IX

PROJECT NO. 56318-253750
FILE NAME: C015STD01
SHEET NO. D-9



CDMS_24_0101_0201_CDM WITH ALL REUSE OF DOCUMENT					DESIGNED BY: <u>WATKINS/GUILFOIL</u>					CDM Smith 75 State Street Boston, MA 02109 Tel: (617) 452-6000	CITY OF WATERTOWN, MASSACHUSETTS					PROJECT NO. 56318-253750				
					DRAWN BY: <u>WATKINS/GUILFOIL</u>						DETAILS VIII					FILE NAME: C016STDT				
					SHEET CHK'D BY: <u>G.HOWARD</u>						ARSENAL PARK IMPROVEMENTS PROJECT					SHEET NO.				
					CROSS CHK'D BY: <u>---</u>						PHASE B					D-10				
					APPROVED BY: <u>G.HOWARD</u>															
					DATE: <u>DECEMBER 2021</u>															
REV. NO.	DATE	DRWN	CHKD	REMARKS																

XREFs: [D:\MS00955\001\DWG\01\01.dwg] Images: [CAM1, CAM2, DEN, LOGO, DENN1, ORL, PIT]
Last saved by: [EAMIT] Time: 10/14/2021 4:32:13 PM
pw:\cdermuth-cs02-pw.bentley.com\PW_PL1\56318\253750\04 Design Services WK_60%\03 Architectural\01\01.dwg
© 2022 CDM SMITH. ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

ABBREVIATIONS

& ◉ AB ABV ACMU AFF AFG AL, ALUM AMP ANOD ASSY BBT BD BEV BLDG BLK BLKG BRG BRK BRS BRNZ BTM C TO C CAB CARP CEM CF COFB CH CHAM CHAN CIP CJ OR ☐ CLG CLKG CMU COL COMP CONC CONT CRS CT DET DF DIA DIAG DIM DISP DN DP DR ELEC ELEV EQ EQPT EWC EXP EXIST. (E) FD FF FGL FIN FLG FL FLR FR FRP FO FV FXD GA GALV GL	AND ANGLE ATP ANCHOR BOLT ABOVE ACOUSTICAL CONCRETE MASONRY UNIT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALUMINUM ACOUSTICAL METAL PANELS ANODIZE(D) ASSEMBLY BIODASED TILE BOARD BEVEL(ED) BUILDING BLOCK BLOCKING BEARING BRICK BRASS BRONZE BOTTOM CENTER TO CENTER CABINET CARPET CEMENT COMPRESSIBLE FILLER CEMENTITIOUS GLASS FIBER BOARD CONCRETE HARDENER CHAMFER CHANNEL CAST IN PLACE CONTROL JOINT CENTERLINE CEILING CAULKING CONCRETE MASONRY UNIT COLUMN COMPRESSIBLE CONCRETE CONTINUOUS COURSE(S) CERAMIC TILE DETAIL DRINKING FOUNTAIN DIAMETER DIAGONAL DIMENSION DISPENSER DOWN DAMP/PROOFING DRAIN ELECTRICAL ELEVATION EQUAL(LY) EQUIPMENT ELECTRICAL WATER COOLER EXPOSED EXPANSION JOINT EXISTING FLOOR DRAIN FIRE EXTINGUISHER FACTORY FINISH FIBERGLASS FINISH(ED) FLASHING FLOOR(ING) FILLER FRAME FRP FIBERGLASS REINFORCED PLASTIC FRAME OPENING FIELD VERIFY FIXED GAGE, GAUGE GALVANIZED GLASS	GB GRTG GYP GWB HARD HD HDWD HDWR HGR HGT HM HOR HP HR IN INST INSUL JC JT JT FLR L LAB LAD LAM LAV LG LKR LNTL LP LT MAS MATL MAX MEMB MFR MIN MISC MO MR MRAT MTD MTG MTL NIC NOM NTS OC OH OPNG OPP HD ORD OSB OV OVHD PERIM PL PLAS PLK PLYWD PM PR PRD PRCST PREFAB PT PRMLD PSF PTD QT QTB R R+S RB RD RECT	GLASS BLOCK GRATING GYPSUM GYPSUM WALL BOARD HARDENER HEAVY DUTY HARDWOOD HARDWARE HANGER HEIGHT HOLLOW METAL HORIZONTAL HIGH POINT HANDRAIL INCH INSTRUMENTATION INSULATION JANITOR'S CLOSET JOINT JOINT FILLER LINE OF STRUCTURAL ANGLE DESIGNATION LABORATORY LADDER LAMINATED LAVATORY LAMINATED GLASS LOCKER LINTEL LOW POINT LIGHT(S) MASONRY MATERIAL MAXIMUM MEMBRANE MANUFACTURER MINIMUM MISCELLANEOUS MASONRY OPENING MOISTURE RESISTANT MOISTURE RESISTANT ACOUSTICAL TILE MOUNTED MOUNTING METAL NOT IN CONTRACT NOMINAL NOT TO SCALE ON CENTER OVERHANG OPENING OPPOSITE HAND OVERFLOW ROOF DRAIN ORIENTED STRAND BOARD OVER OVERHEAD PERIMETER PLATE PROPERTY LINE PLASTER PLANK PLYWOOD PRESSED METAL PAIR PROMENADE ROOF DRAIN PRECAST PRE-FABRICATED PRESSURE TREATED PREMOLDED POUNDS PER SQUARE FOOT PAINTED QUARRY TILE QUARRY TILE BASE RISER(S) BACKER ROD & SEALANT RUBBER BASE ROOF DRAIN RECEPTACLE	REF REINF REQ'D RES REV RF RFG ROUGH RJ RL RLG RM RO RT RWL S SAT SB SCHD SCRN SECT SF SOFT SHT SIM SK SL SLNT SPEC SST STD STL STOR STRU STWY SUPT SUSP T TBM T&G TEMP TEMP TEMP TER TERB THK THR TKBD TOB TOC TOIL TOM TOPG TOS TSL TYP UC UON UR VB VCT VERT VEST VTR W W/ W/A W/O WC WD WDW WF WPG WT WWF	ROOF EXHAUST FAN REINFORCE (D, ING) REQUIRED RESINOUS REVISED ROOF FAN ROOFING ROUGH REVEAL/RUSTICATION JOINT RAIN LEADER RAILING ROOM ROUGH OPENING RUBBER TILE RAIN WATER LEADER STEEL S-SHAPE DESIGNATION SUSPENDED ACOUSTICAL TILE SEAMLESS BASE SCHEDULE SCREEN(ED, ING) SECTION SEAMLESS FLOORING STRUCTURAL GLAZED FACING TILE SHEET SIMILAR SINK SLOPE SEALANT SPECIFICATION, SPECIFIED STAINLESS STEEL STANDARD STEEL STORAGE STRUCTURE(S, URAL) STAIRWAY SUPERINTENDENT SUSPENDED TREAD(S) TRAFFIC BEARING MEMBRANE TONGUE AND GROOVE TEMPERATURE TEMPERED TEMPORARY TERRAZZO TERRAZZO BASE THICK(NESS) THRESHOLD TACKBOARD TOP OF BRICK TOP OF CONCRETE TOILET TOP OF MASONRY TOPPING TOP OF STEEL STRUCTURAL TUBING (STEEL UNLESS NOTED) TOP OF SLAB THROUGH WALL FLASHING TYPICAL UNDERCUT UNLESS OTHERWISE NOTED URINAL VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VESTIBULE VENT THRU ROOF WITH WITH WHERE APPLICABLE WITHOUT WATER CLOSET WOOD WINDOW WIDE FLANGE WATERPROOFING STEEL TEE-SHAPE DESIGNATION WELDED WIRE FABRIC
--	---	---	--	---	---

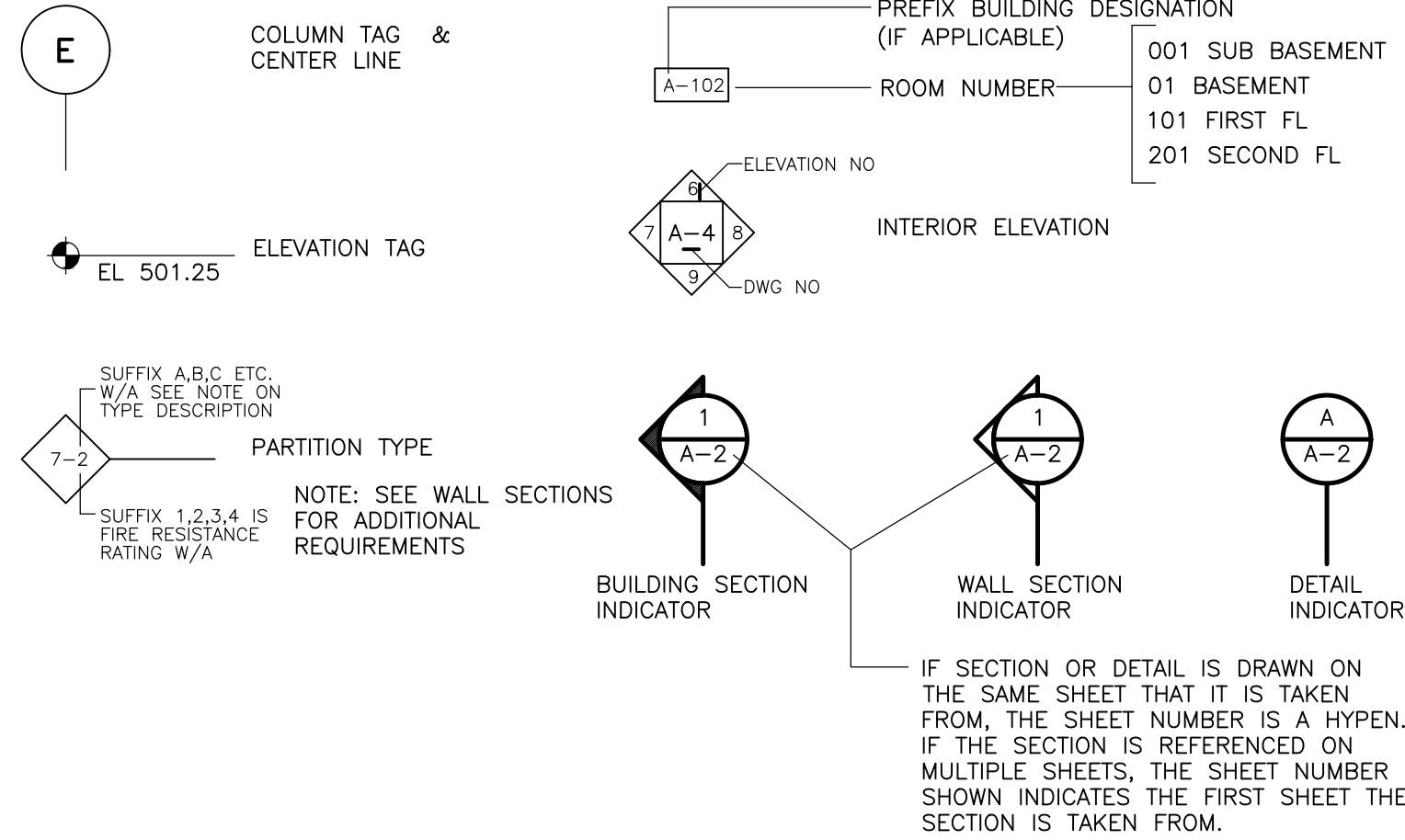
MATERIAL SYMBOLS

	EARTH, SOIL
	GRAVEL
	BRICK
	CONCRETE BLOCK
	PRECAST CONCRETE
	CONC CAST IN PLACE
	WOOD-BLOCKING
	WOOD-FINISH
	PLYWOOD
	RIGID INSULATION
	BLANKET INSULATION
	STEEL
	ALUMINUM
	GROUT
	CAULK
	GLASS
	STRUCTURAL STEEL
	SHEET METAL, STEEL, GLASS, WATERPROOFING

LEGEND

FIRE EXTINGUISHERS:	
● FE-CD	CARBON DIOXIDE (WALL MTD)
● FE-DC	DRY CHEMICAL (WALL MTD)
*FINAL LOCATION OF FIRE EXTINGUISHERS SHALL BE COORDINATED IN FIELD.	
EGRESS COMPONENTS:	
⇨	AREA OR SPACE EXIT
➡	BUILDING EXIT
PARTITION FIRE RATINGS	
	1 HOUR FIRE RESISTANCE RATED WALL
EXTERIOR R-VALUE RATINGS	
W-1	EXTERIOR WALL ASSEMBLY TAG FOR R-VALUE CHECK

SYMBOLS



GENERAL NOTES

HEIGHT OF INTERIOR CMU PARTITIONS ARE FROM FLOOR TO THE UNDERSIDE OF ROOF DECK (UNLESS OTHERWISE NOTED)

NOT ALL EQUIPMENT IS SHOWN FOR CLARITY. REFER TO THE APPROPRIATE DISCIPLINE SHEETS FOR SPECIFIC EQUIPMENT LAYOUT AND OTHER REQUIREMENTS

SEE "C" SHEETS FOR SIDEWALK, ROAD PAVING AND FINISH GRADE ELEVATIONS.

SEE "S" SHEETS FOR SIZE AND LOCATION OF CONCRETE PADS, TRENCHES, VAULTS, SUMPS, ETC

SEE "S" SHEETS FOR CONCRETE AND MASONRY REINFORCEMENT

DO NOT SCALE FROM THE DRAWINGS

NOTIFY ENGINEER IF CONSTRUCTION DOCUMENTS DIFFER FROM ACTUAL FIELD CONDITIONS PRIOR TO FABRICATION OR NEW CONSTRUCTION

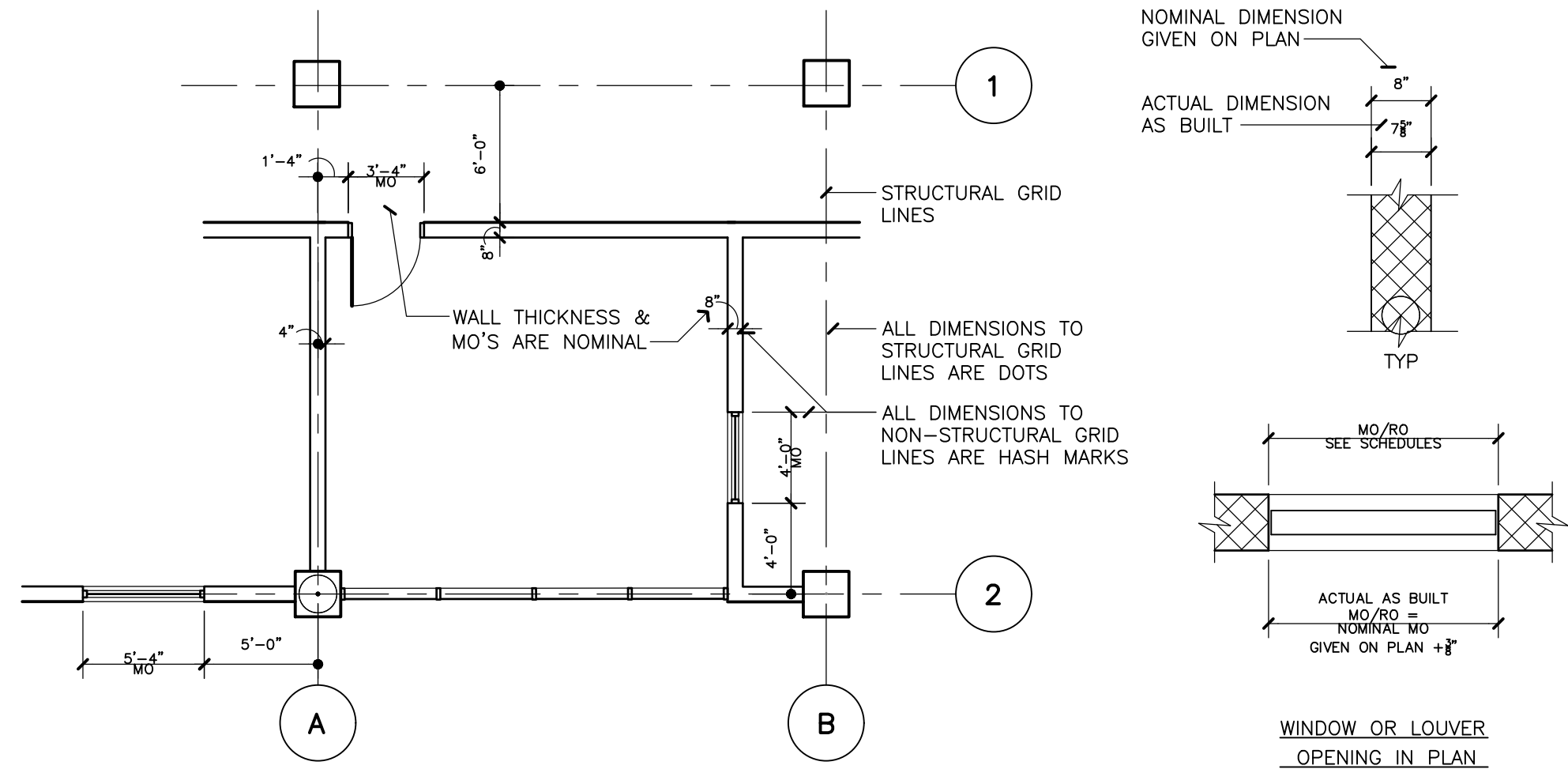
LINE TYPES (UNLESS OTHERWISE NOTED)

	CONTINUOUS - NEW CONSTRUCTION
	DASHED ON CONSTRUCTION PLANS/SHEETS - HIDDEN ELEMENTS ABOVE, BELOW, OR BEYOND

ACCESSORIES & EQUIPMENT

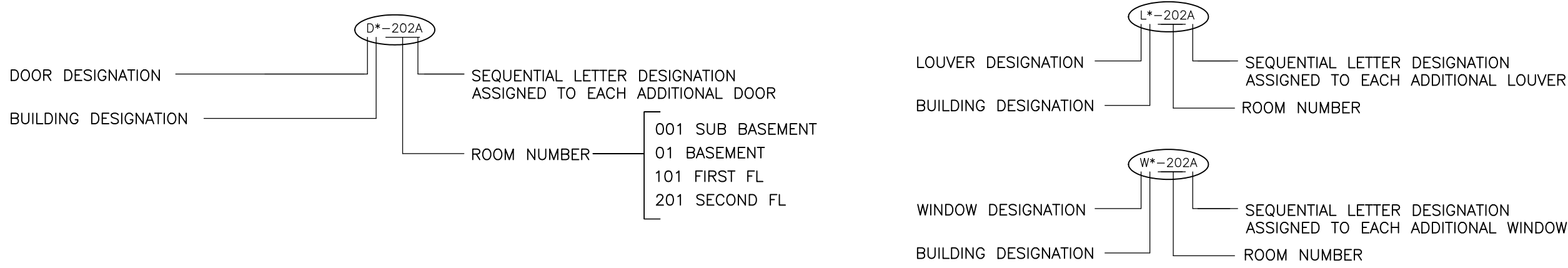
	EQUIPMENT, LABORATORY CASEWORK, OR ACCESSORY SYMBOL AS NOTED
	TOILET ROOM ACCESSORIES (SEE SPECIFICATION SECTION 10800)

DIMENSIONING SYSTEM



OPENINGS

USUALLY LABELED IN PLAN VIEW; HOWEVER, OPENINGS NOT SHOWN IN PLAN ARE LABELED ON ELEVATIONS



DESIGNED BY: E. ROSA	
DRAWN BY: A. LAM	
SHEET CHK'D BY: X	
CROSS CHK'D BY: X	
APPROVED BY: X	
DATE: JANUARY 2022	

REV. NO.	DATE	DRWN	CHKD	REMARKS



CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT

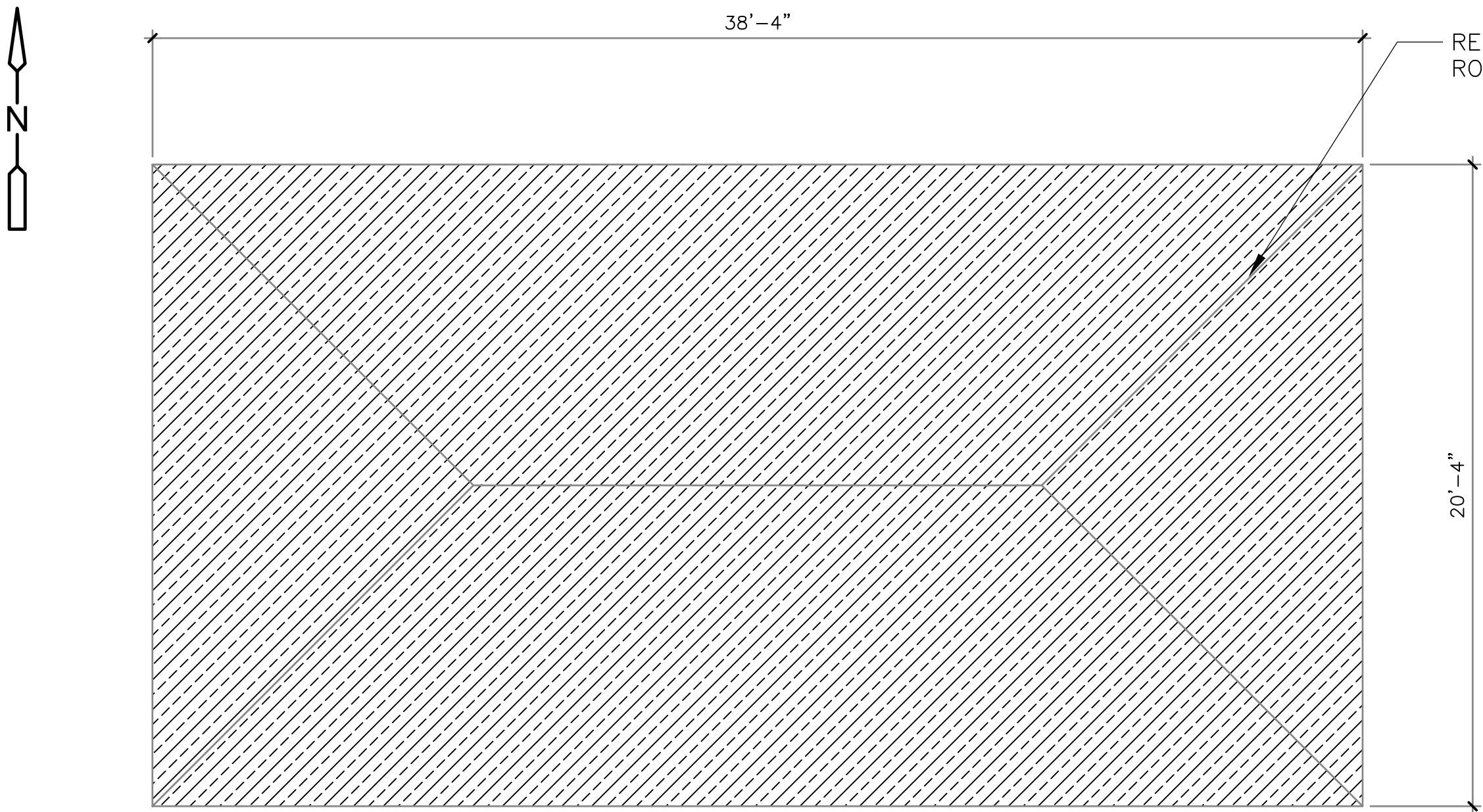
PHASE B

ARCHITECTURAL ABBREVIATIONS AND SYMBOLS

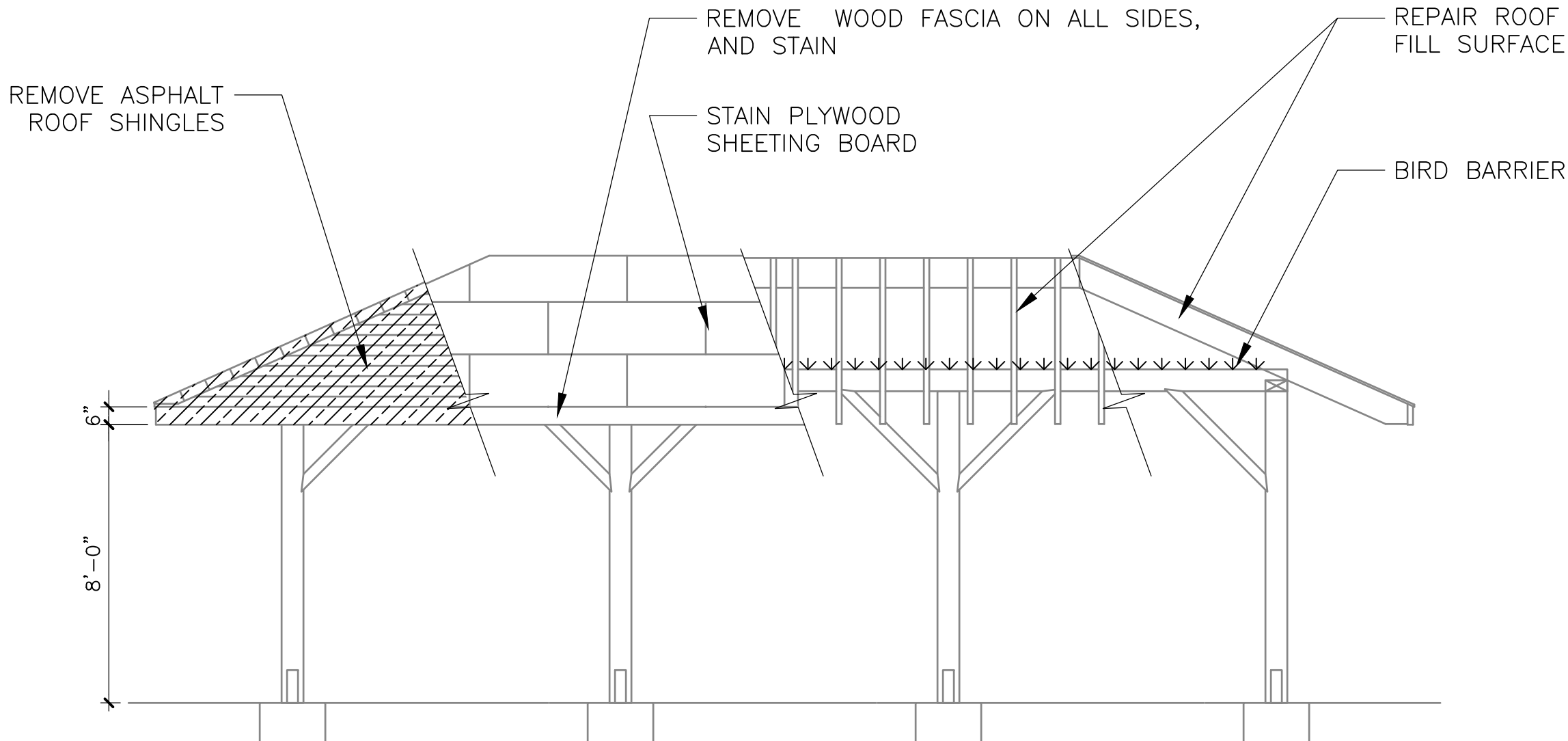
PROJECT NO. 56318-253750
FILE NAME: xxxxxxxx
SHEET NO.
A-1

XREFs: [\\JWS000952\001\PEMPs\0\MS_2436] Images: [CAM1, CAM2, DEN_LOGO, DENNL, ORL, PIT]
Last saved by: EAMJP Date: 10/15/2021 12:46:10 AM

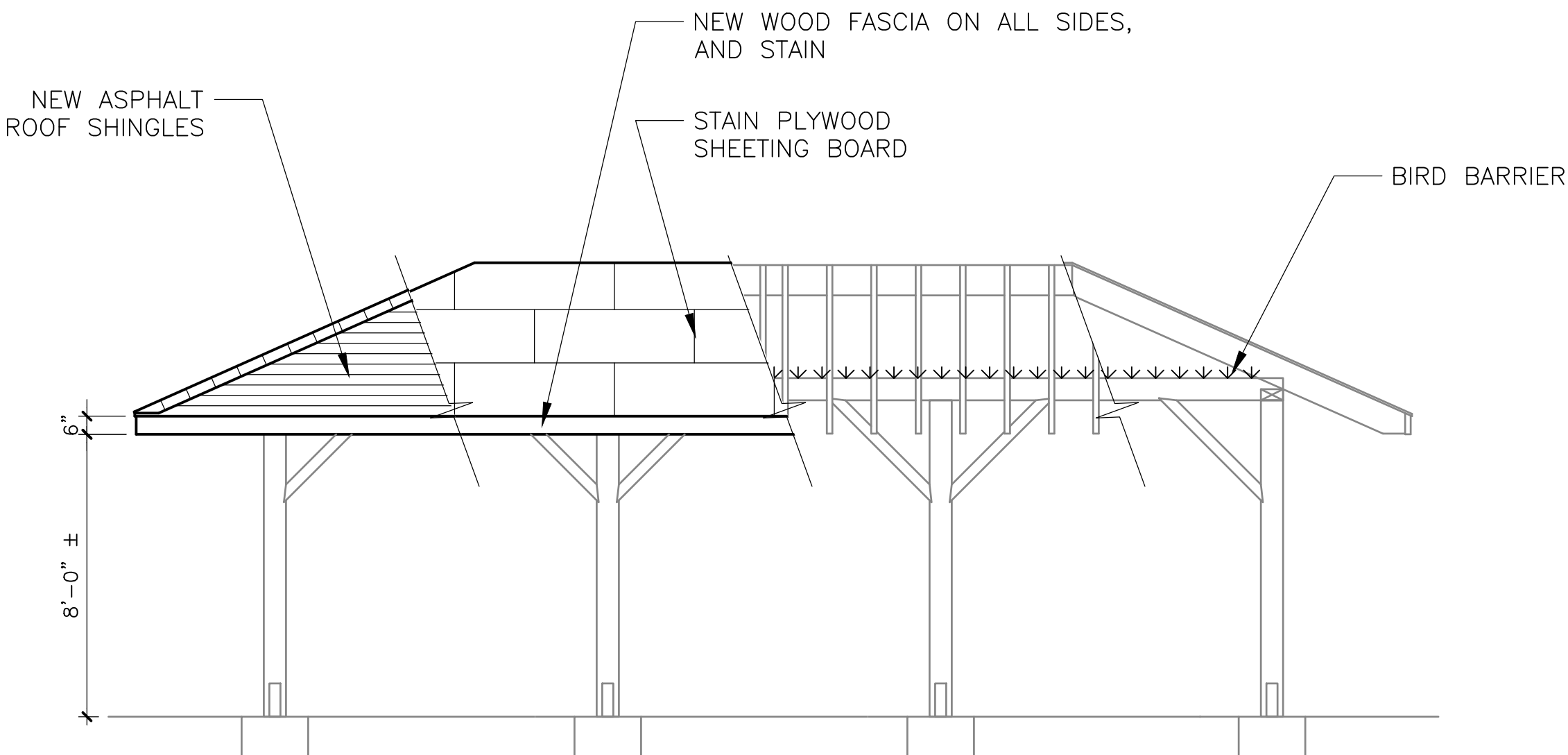
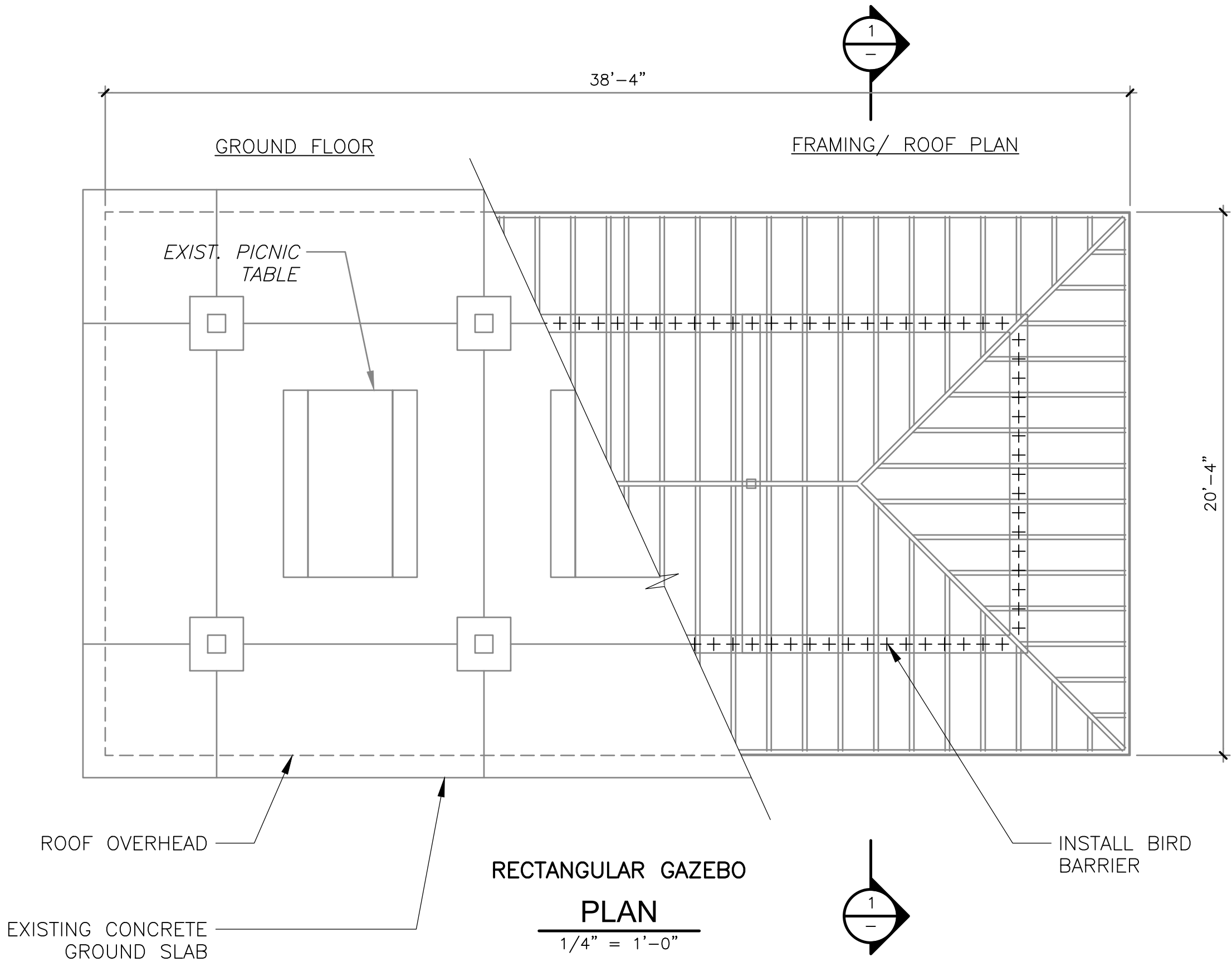
pw:\cdermottb-co02-pw\entley.com\PW_PL1\56318\253750\04 Design Services WM_60%\03 Rectangular\03\04\0001\04.dwg
© 2022 CDM Smith. All rights reserved. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



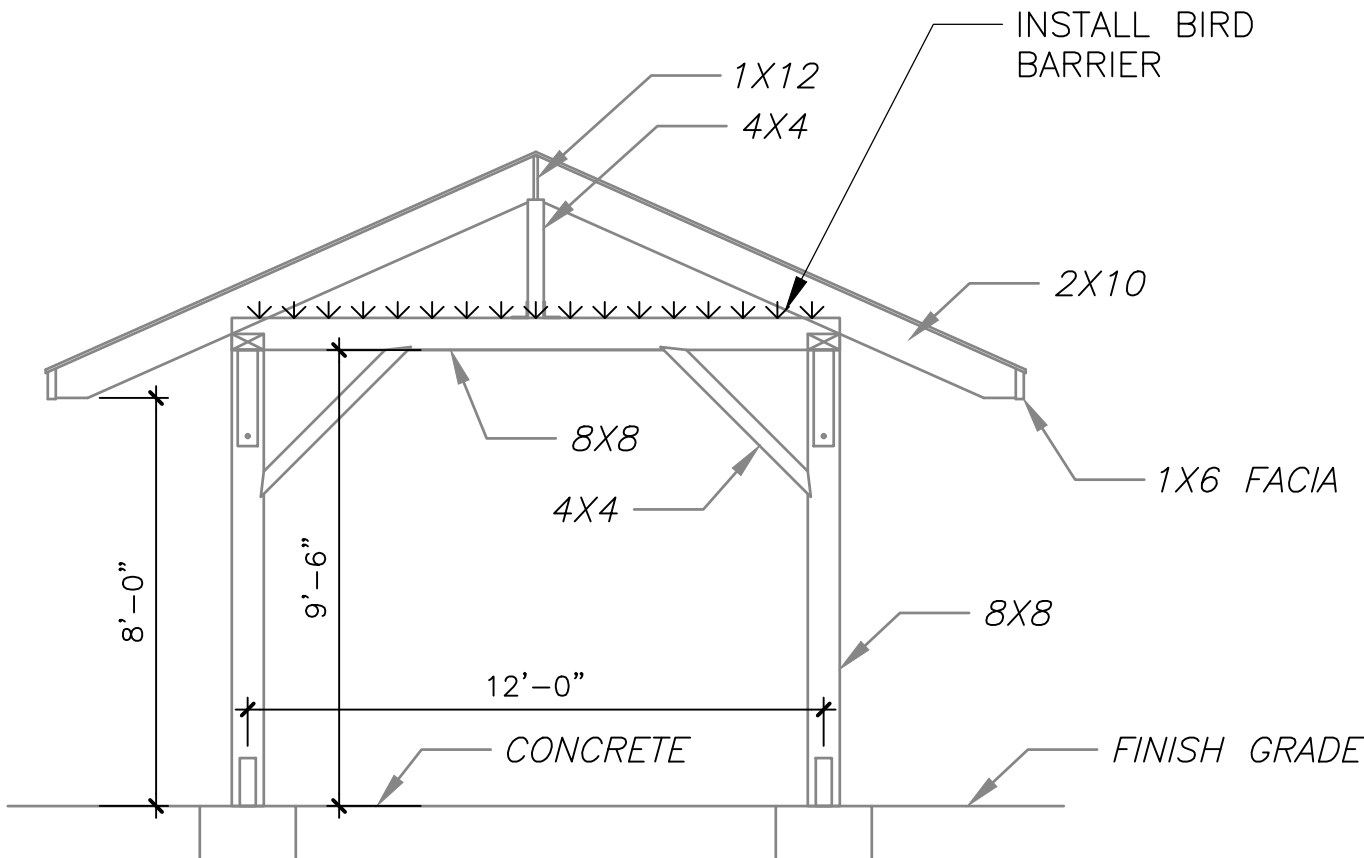
DEMO RECTANGULAR GAZEBO
PLAN
1/4" = 1'-0"



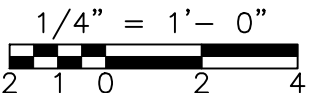
DEMO RECTANGULAR GAZEBO
ELEVATION
1/4" = 1'-0"



RECTANGULAR GAZEBO
ELEVATION
1/4" = 1'-0"



SECTION 1
1/4" = 1'-0"



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	E. ROSA
DRAWN BY:	A. LAM
SHEET CHK'D BY:	X
CROSS CHK'D BY:	X
APPROVED BY:	X
DATE:	JANUARY 2022

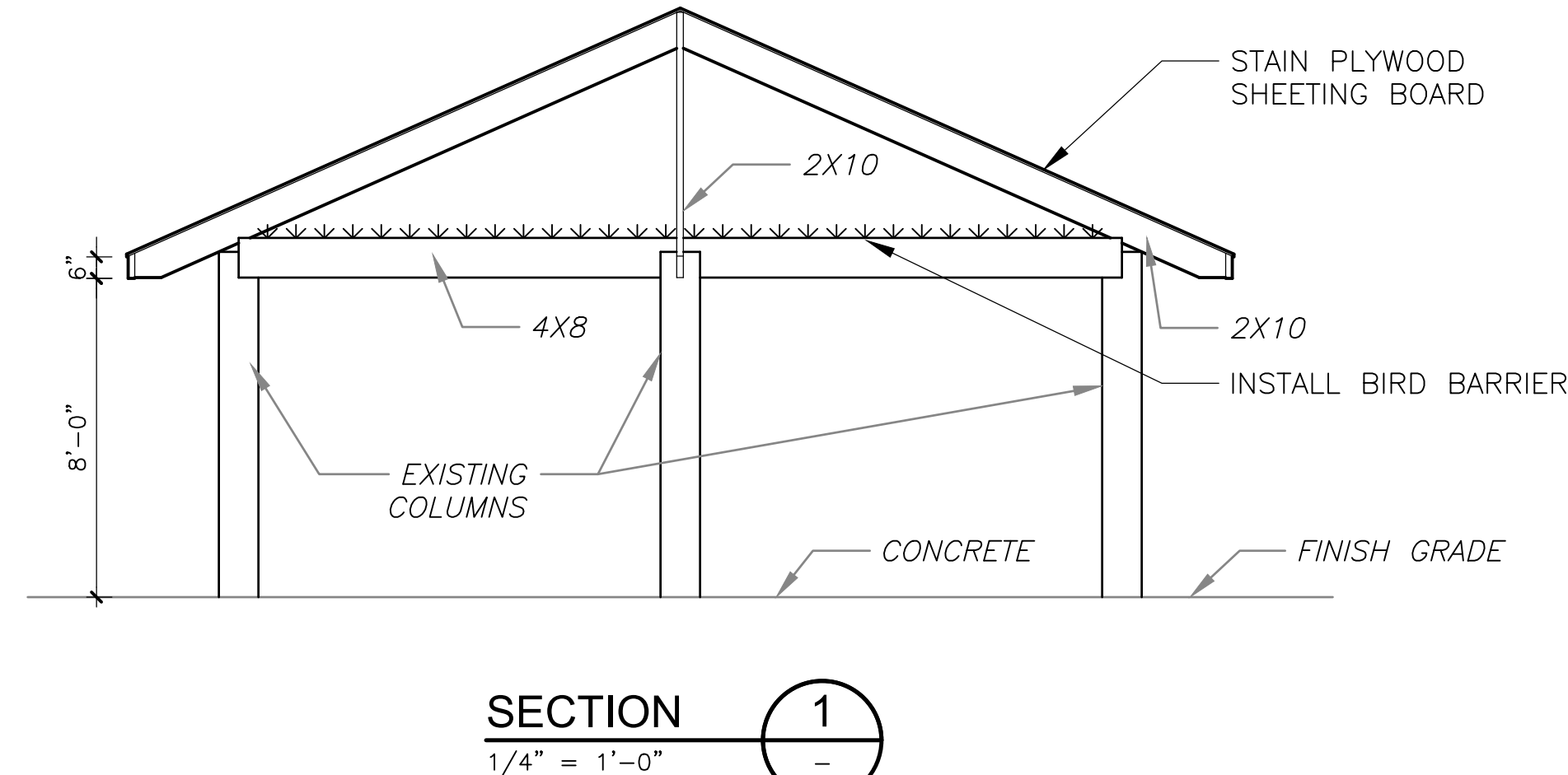
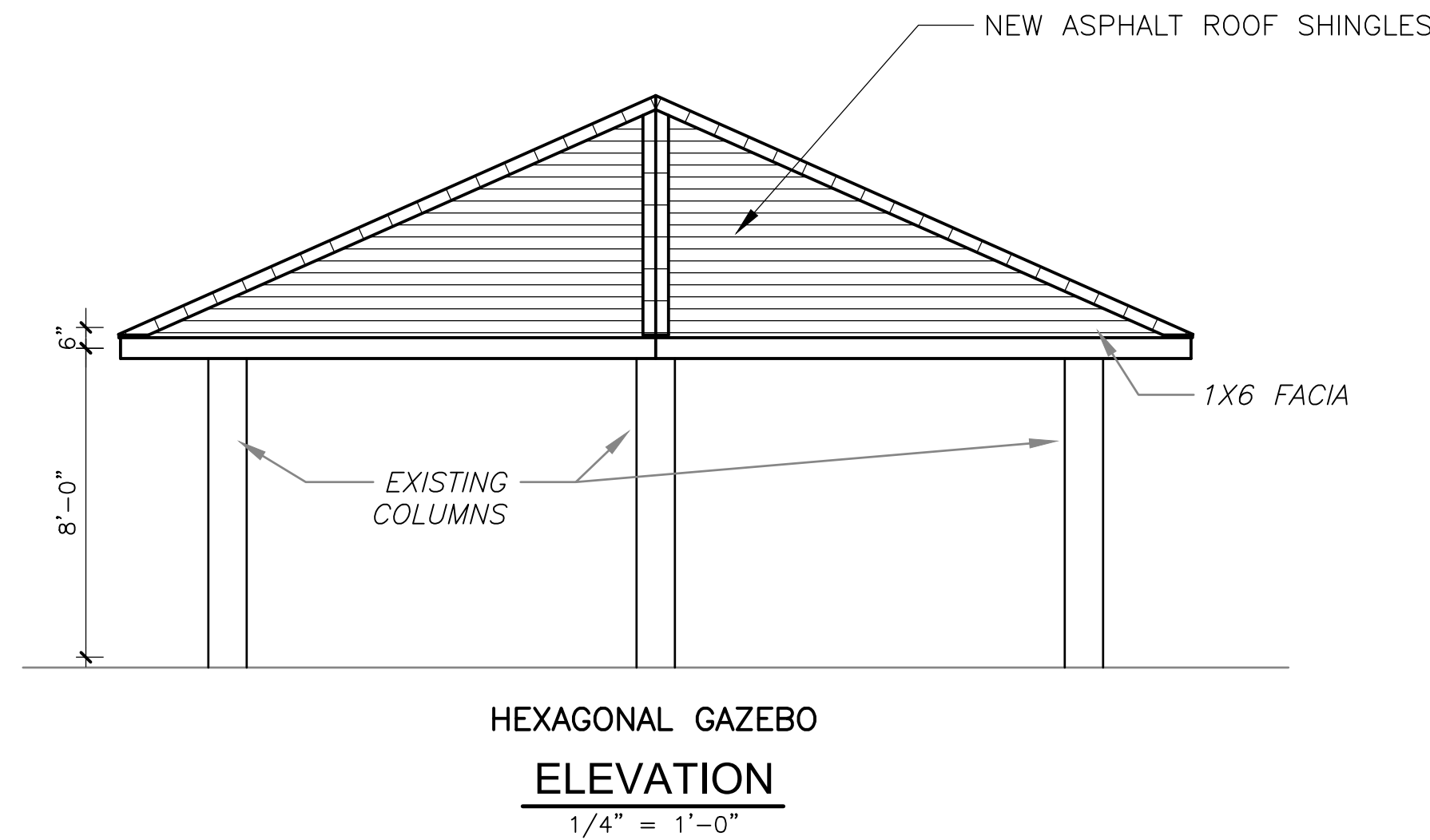
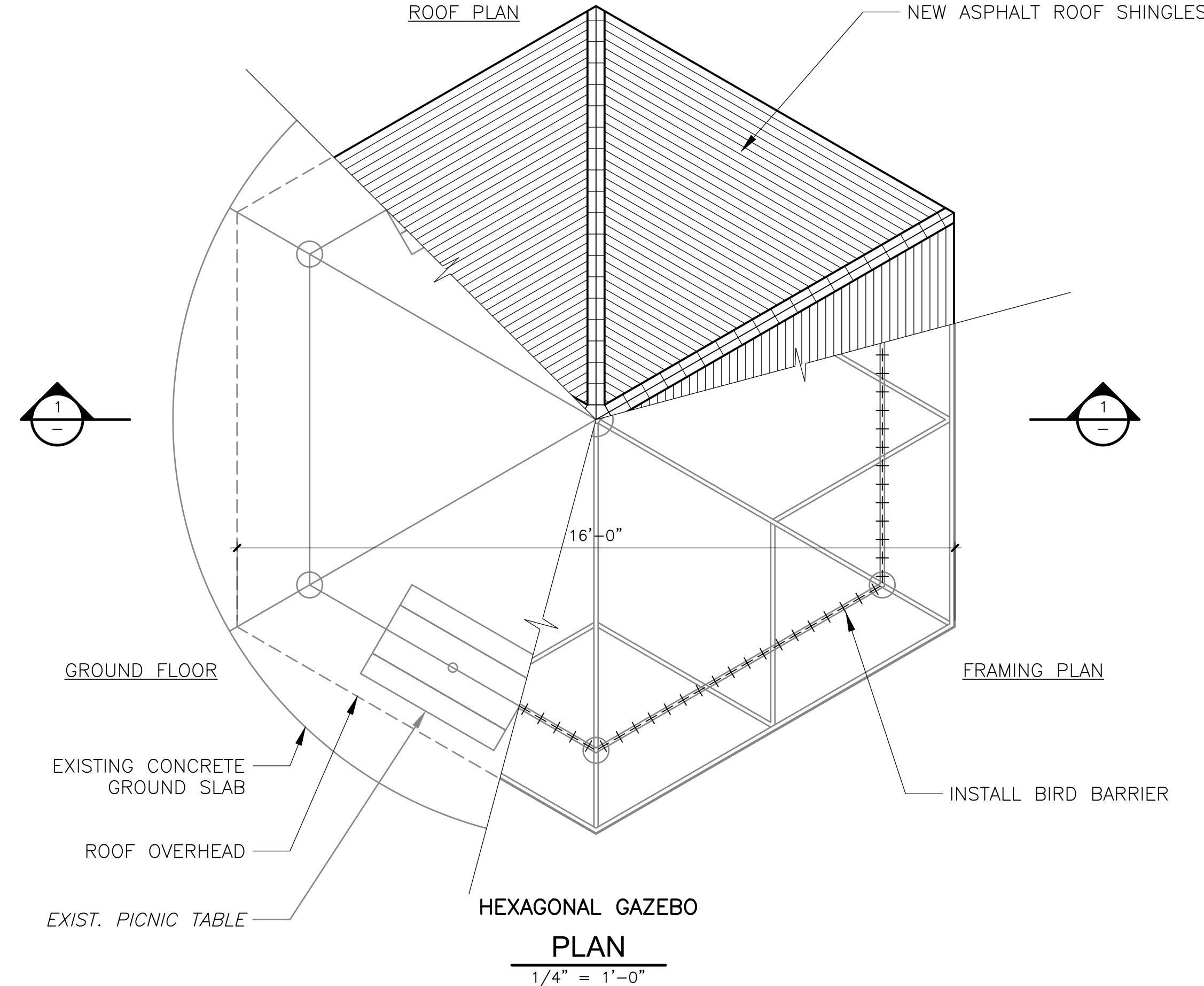
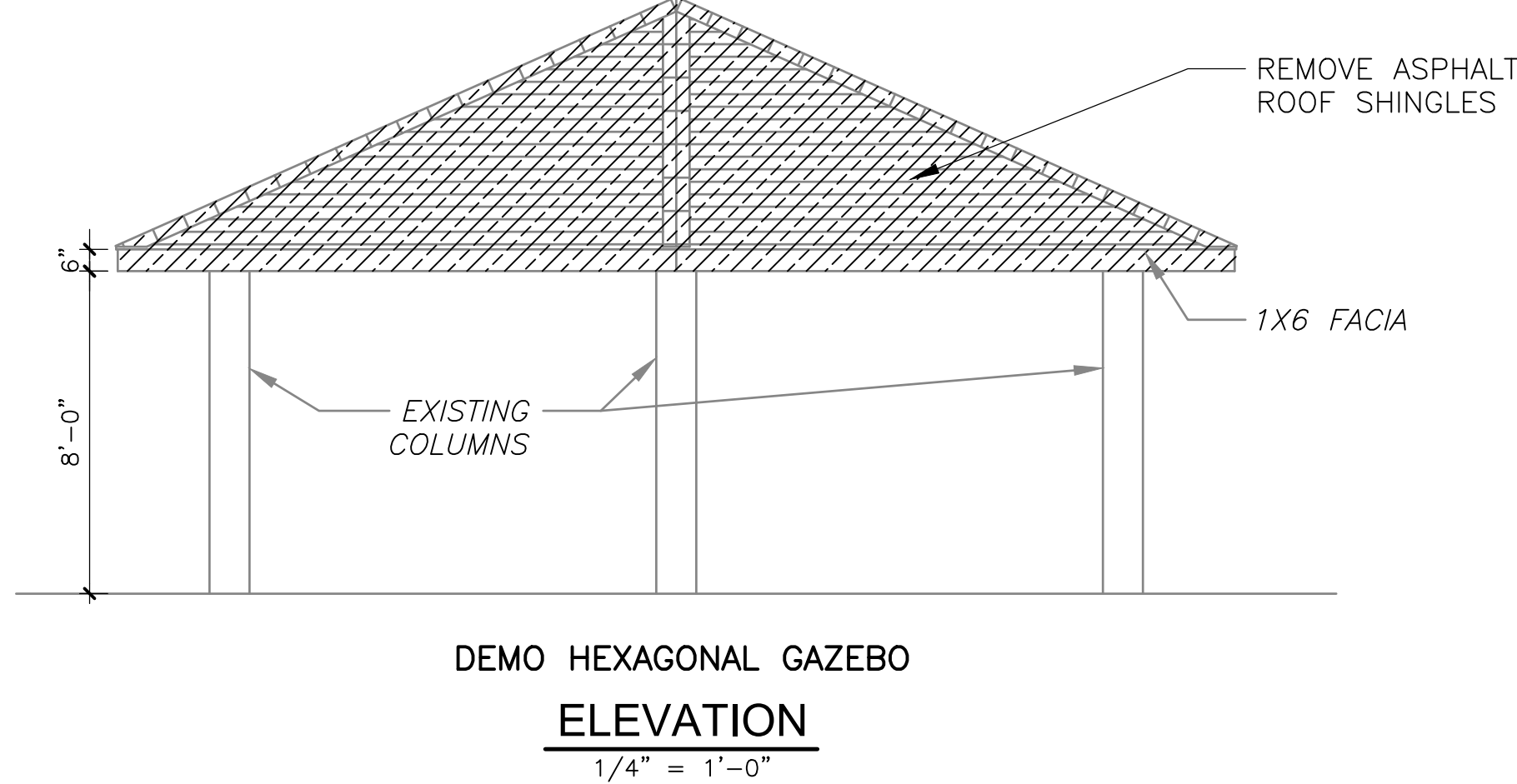
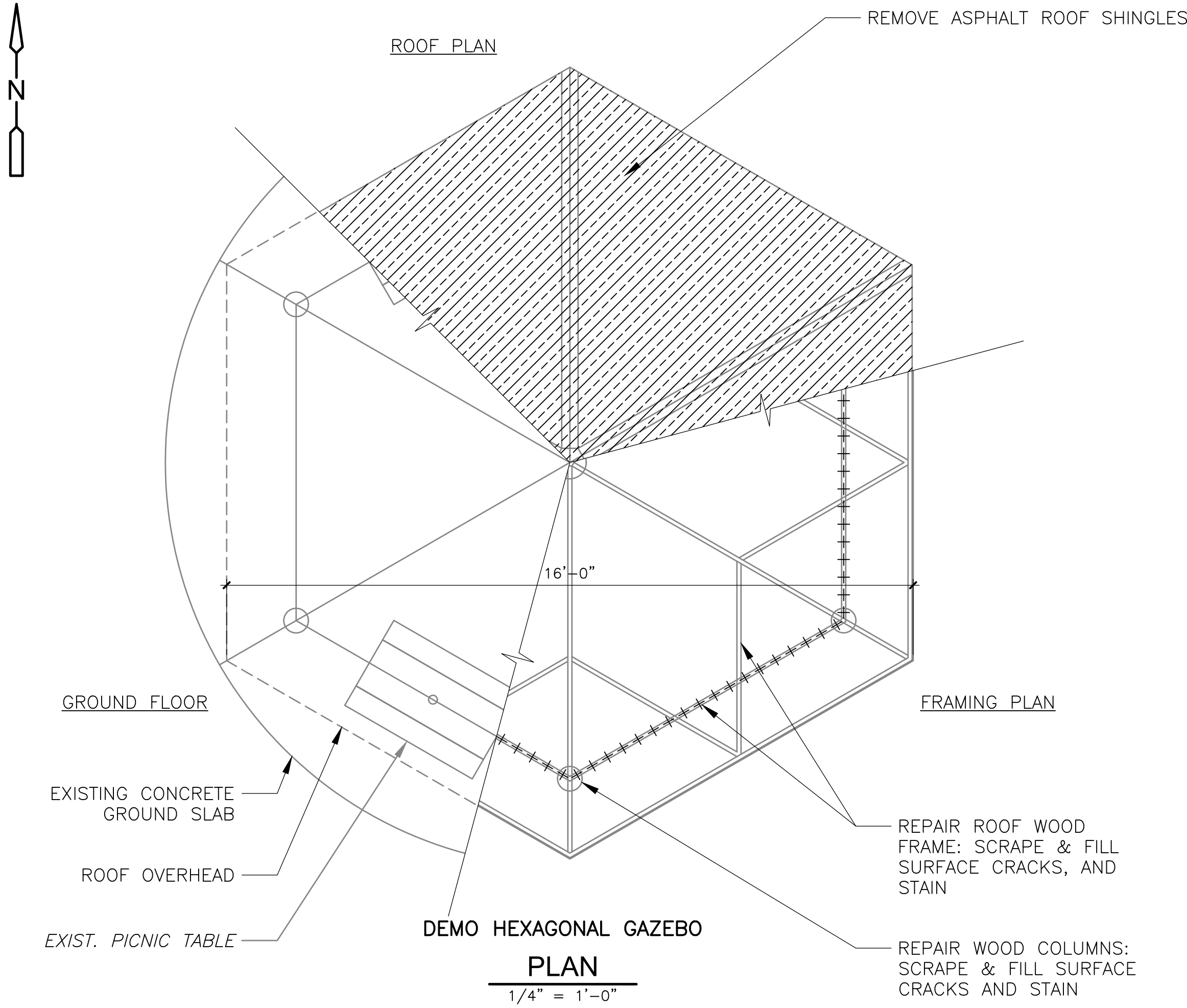


CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DEMOLITION AND MODIFICATIONS
RECTANGULAR GAZEBO
PLANS, SECTIONS, AND ELEVATIONS

PROJECT NO. 56318-253750 FILE NAME: xxxxxxxx
SHEET NO. A-2

XREFs: [J:\MS00952\001\DWG\CAM1, CAM2, DEN, LOGO, DENN, ORL, PIT]
Last saved by: [LAMI]P Time: 10/14/2021 15:50:48 PM
pw\j\demolition-cv02-pw.bentley.com:PW_PL1\56318\253750\04 Design Services WM_60%\03 final\dwg\CAM1\0001.dwg
© 2022 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



REV. NO.	DATE	DRWN	CHKD	REMARKS

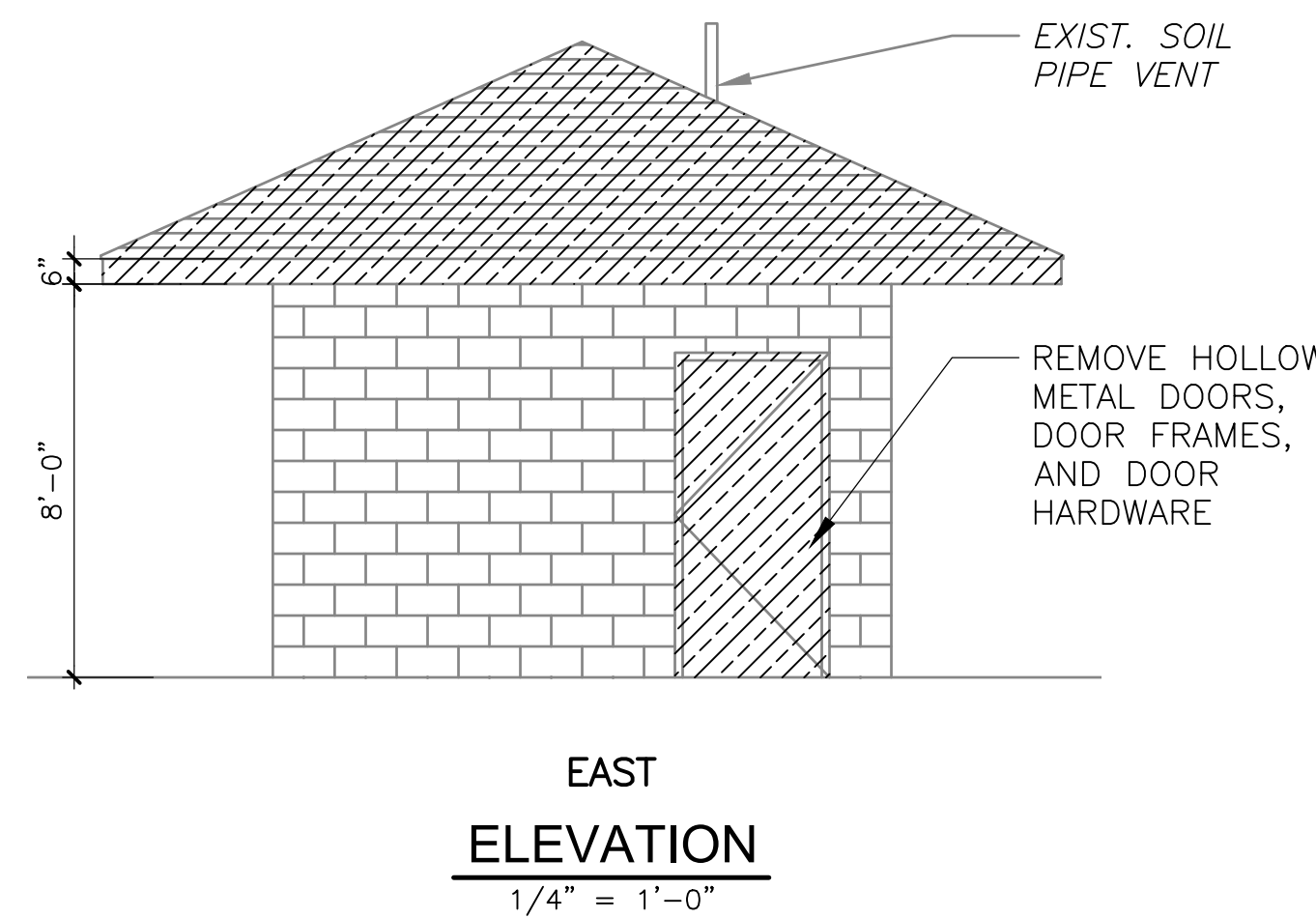
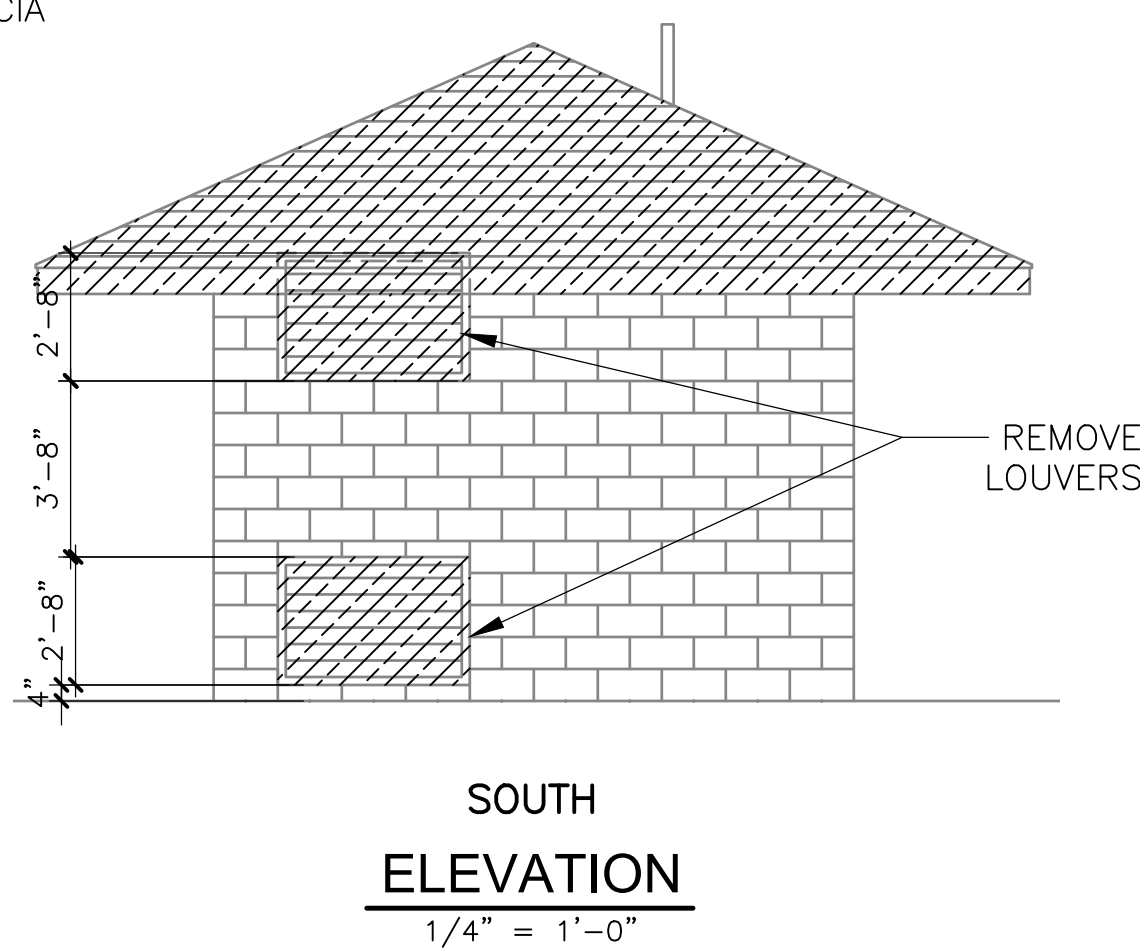
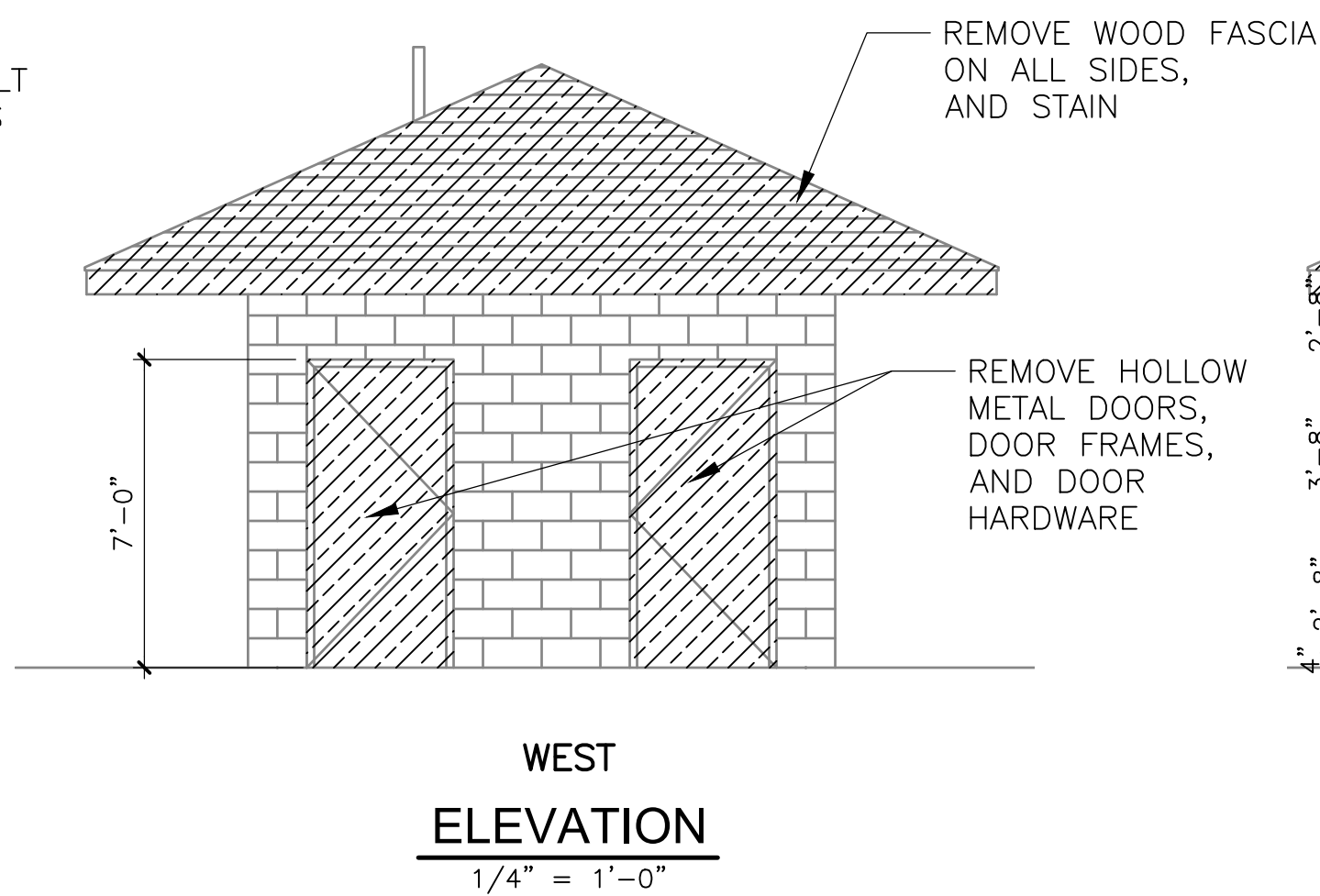
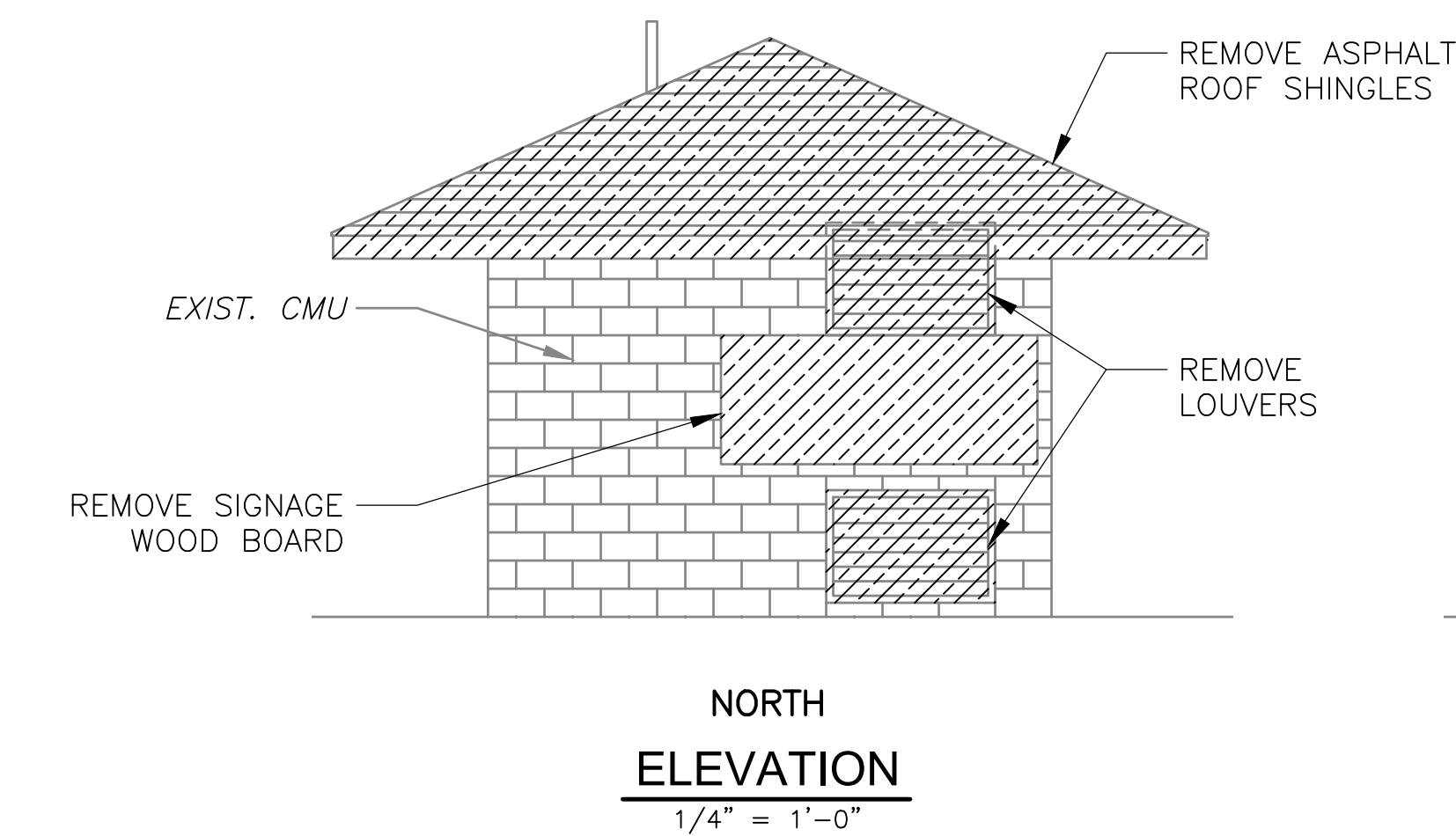
DESIGNED BY:	E. ROSA
DRAWN BY:	A. LAM
SHEET CHK'D BY:	X
CROSS CHK'D BY:	X
APPROVED BY:	X
DATE:	JANUARY 2022

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

DEMOLITION AND MODIFICATIONS
HEXAGONAL GAZEBO
PLANS, SECTIONS AND ELEVATIONS

PROJECT NO: 56318-253750
FILE NAME: xxxxxxxx
SHEET NO.
A-3



DESIGNED BY: _____ E. ROSA
DRAWN BY: _____ A. LAM
SHEET CHK'D BY: _____ X
CROSS CHK'D BY: _____ X
APPROVED BY: _____ X
DATE: _____ JANUARY 2022

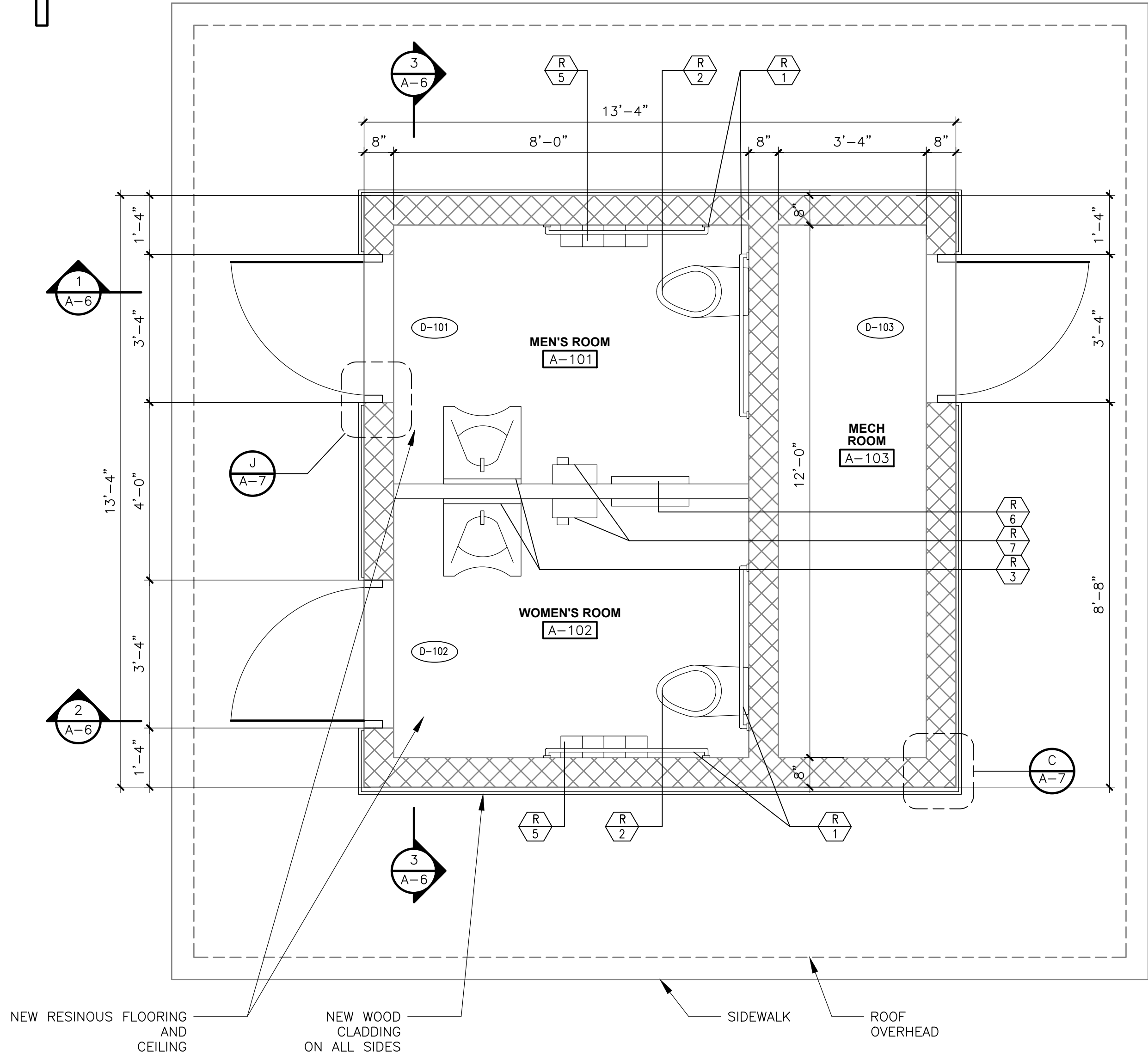
**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

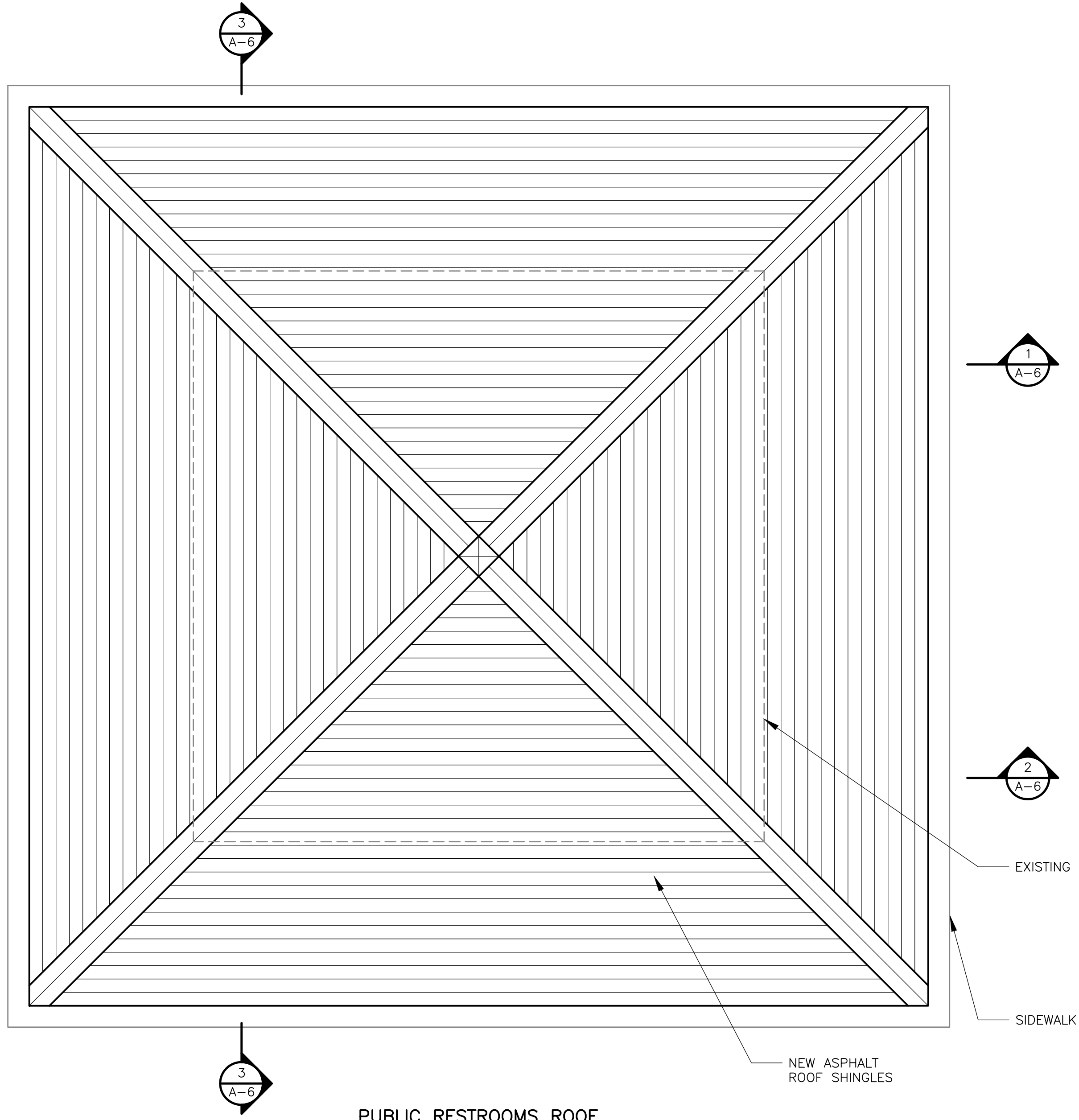
DEMOLITION
PUBLIC RESTROOMS
FLOOR AND ROOF PLANS
AND SECTION AND ELEVATIONS

PROJECT NO. 56318-253750
FILE NAME: xxxxxxxx
SHEET NO.
A-4

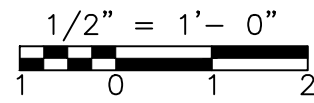
XREFs: [D:\MSD\0055\A001\BWP\01\MS_2436] Images: [CAM1, CAM2, DEN_LOGO, DENNU, ORL, PIT, usg-donn-dvla-dvoce-basic-ceiling-details-code7ad5595]
Last saved by: [EAMM] Time: 1/5/2022 4:28:37 PM
pw:\cdermuth-cd02-pw\entley.com\PM_PL1\56318\253750\04 Design Services NM_60%\03 final\final\03\CDM\A001\BWP\01\MS_2436
© 2022 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



PUBLIC RESTROOMS
PLAN
1/2" = 1'-0"



PUBLIC RESTROOMS ROOF
PLAN
1/2" = 1'-0"



TOILET ROOM ACCESSORIES		
ITEM No.	DESCRIPTION	QUANTITY
R-1	42" GRAB BAR	4
R-2	WALL MOUNTED TOILET	1
R-3	24" X 36" MIRROR	2
R-4	SOAP DISPENSER	2
R-5	TISSUE PAPER DISPENSER	2
R-6	SURFACE MOUNTED TOILET SEAT COVER DISPENSER	2
R-7	PAPER TOWEL DISPENSER	2
R-8	SANITARY NAPKIN DISPOSAL	2
R-9	HAND DRYER	2

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	E. ROSA
DRAWN BY:	A. LAM
SHEET CHK'D BY:	X
CROSS CHK'D BY:	X
APPROVED BY:	X
DATE:	JANUARY 2022



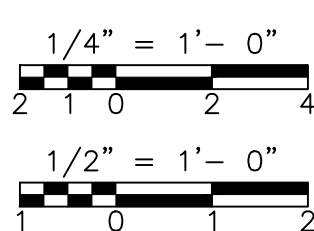
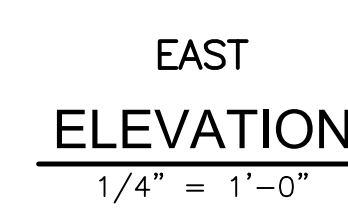
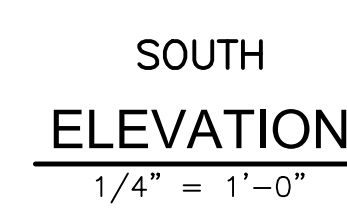
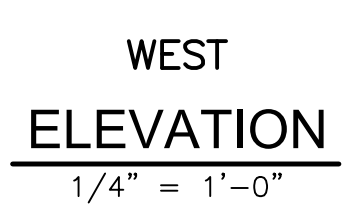
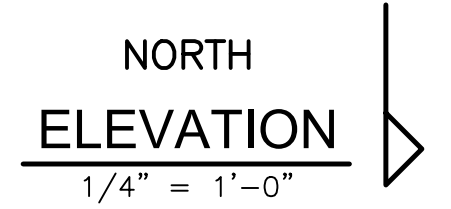
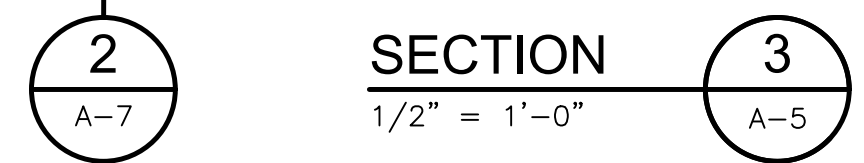
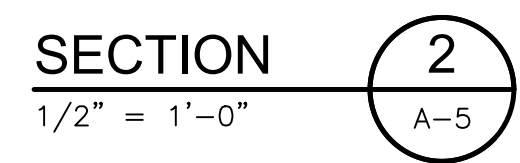
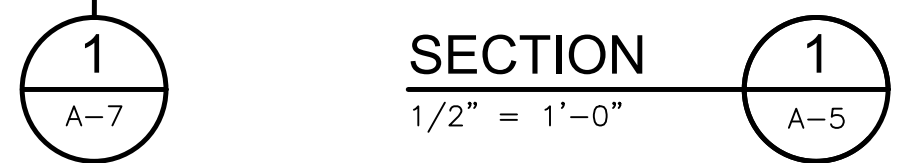
CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

MODIFICATIONS
PUBLIC RESTROOMS
FLOOR AND ROOF PLANS

PROJECT NO. 56318-253750
FILE NAME: xxxxxxxx
SHEET NO.
A-5

XREFs: [QMS90QPS6]A001P6WPs: [DMS_2436] Images: [CAM1, CAM2, DEN_LOG, DENNJ, ORL, PIT]

©2022 CDM SMITH ALL RIGHTS RESERVED. REUSE OF DOCUMENTS: THESE DOCUMENTS, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



REV. NO.	DATE	DRWN	CHKD	REMARKS
-------------	------	------	------	---------

DESIGNED BY: _____ E. ROSA
DRAWN BY: _____ A. LAM
SHEET CHK'D BY: _____ X
CROSS CHK'D BY: _____ X
APPROVED BY: _____ X
DATE: _____ JANUARY 2022



CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

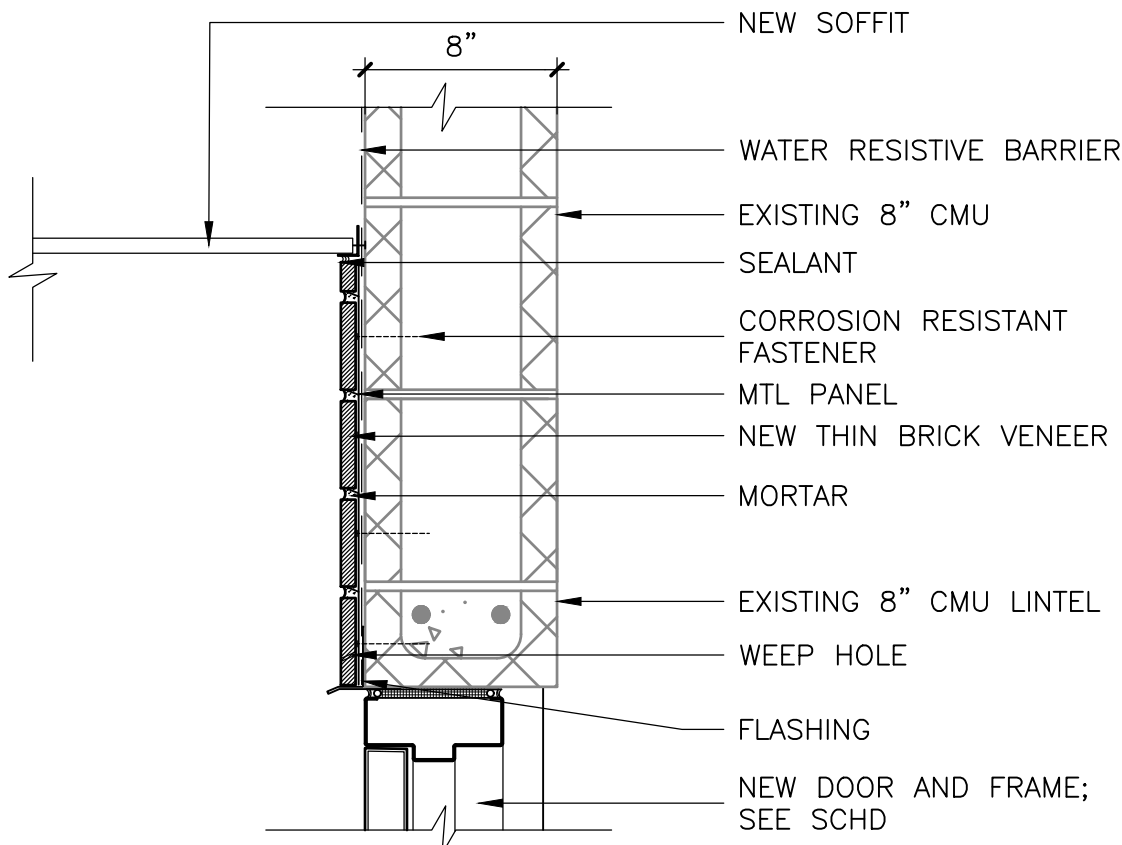
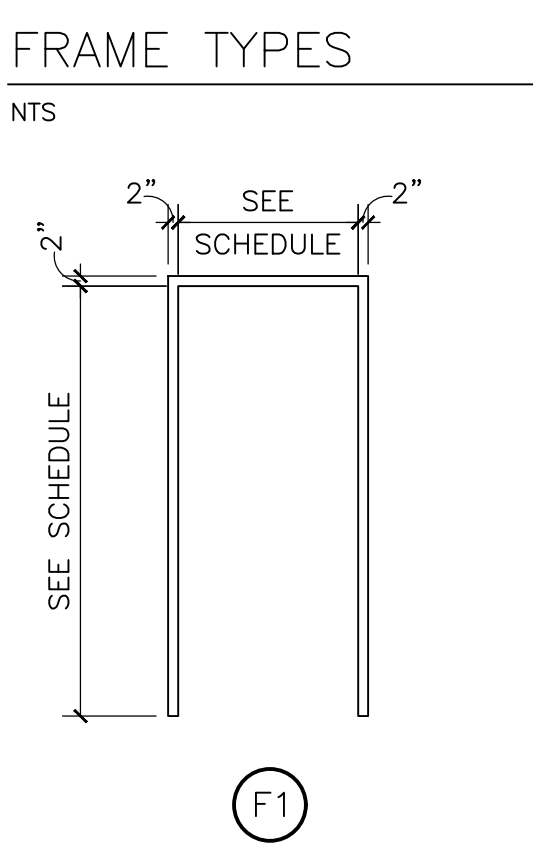
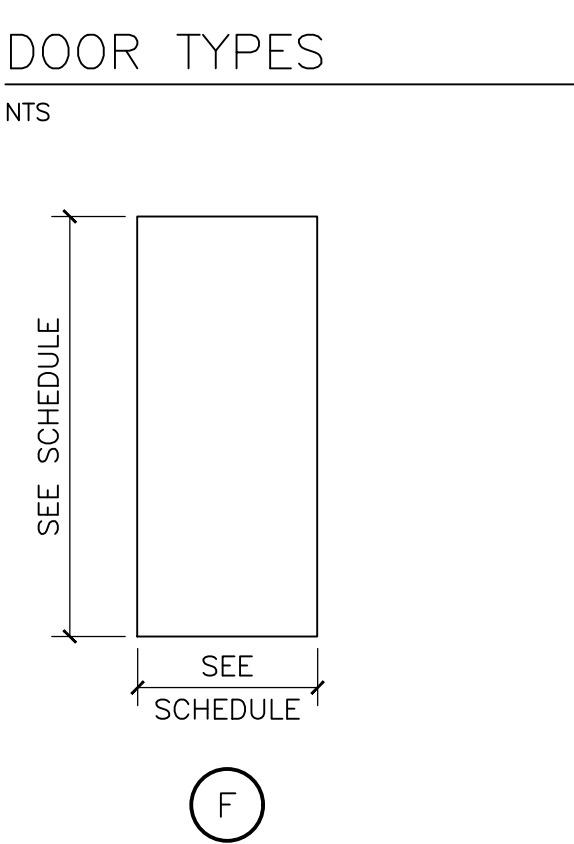
MODIFICATIONS
PUBLIC RESTROOMS
SECTIONS AND ELEVATIONS

PROJECT NO. 56318-253750	
FILE NAME:	xxxxxxxxxx
SHEET NO.	
A-6	

XREFs: [D:\MS00935\001\PE\PE\03\01\US_2436] Images: [CAM1, CAM2, DEN\LOGO, DENNU, ORL, PIT, usg-dom-dvla-dvoce-basic-ceiling-details-code7ad5595]
Last saved by: [CAM1] Time: 12/19/2021 18:44:23 PM
p:\x\concrete-cv02-pw\entley.com\PM_PL1\56318\253750\04 Design Services WM_60%\03 Architectural\03\04\000\000718wg9
© 2022 CDM SMITH ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

FINISH SCHEDULE											
BLDG	ROOM NUMBER	ROOM NAME	FLOORS		WALLS		CEILINGS			NOTE NO	NOTES
			MAT'L	FIN	BASE	MAT'L	FIN	MAT'L	FIN	HEIGHT	
PUBLIC REST ROOMS	A-101	MEN'S ROOM	CONC	RES	RES	CMU/ WD PLK	PTD	WD FR	PTD	9'-0"	1. --
	A-102	WOMEN'S ROOM	CONC	RES	RES	CMU/ WD PLK	PTD	WD FR	PTD	9'-0"	
	A-103	MECH ROOM	CONC	HARD	-	CMU	-	-	-	-	

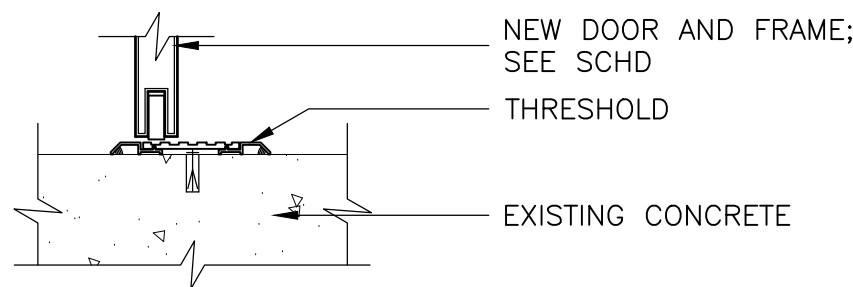
DOOR SCHEDULE																		
BLDG	DOOR NUMBER			DOOR SIZE		DOORS			FRAMES			DETAILS			UL LABEL	NOTE NO	NOTES	
				WIDTH	HEIGHT	TYPE	MAT'L	FIN	TYPE	MAT'L	FIN	HEAD	JAMB	JAMB				THRES-HOLD
PUBLIC REST- ROOMS	D-101	MEN'S ROOM	EXTERIOR	3'-0"	6'-10"	F	HM	PTD	F1	HM	PTD	D/A-7	F/A-7	-	E/A-7	-	-	1. -
	D-102	WOMEN'S ROOM	EXTERIOR	3'-0"	6'-10"	F	HM	PTD	F1	HM	PTD	D/A-7	F/A-7	-	E/A-7	-	-	1. -
	D-103	MECH ROOM	EXTERIOR	3'-0"	6'-10"	F	HM	PTD	F1	HM	PTD	D/A-7	F/A-7	-	E/A-7	-	-	1. -



DOOR HEAD

DETAIL

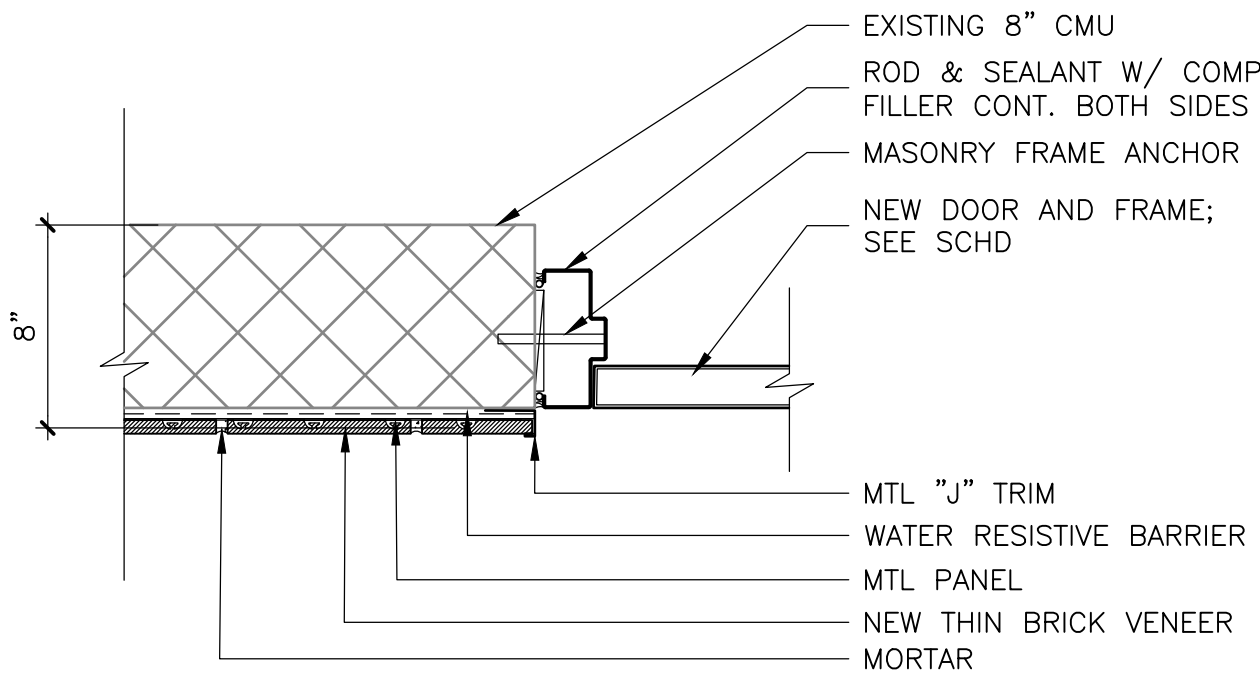
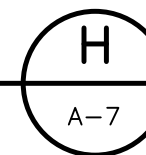
1 1/2" = 1'-0"



DOOR THRESHOLD

DETAIL

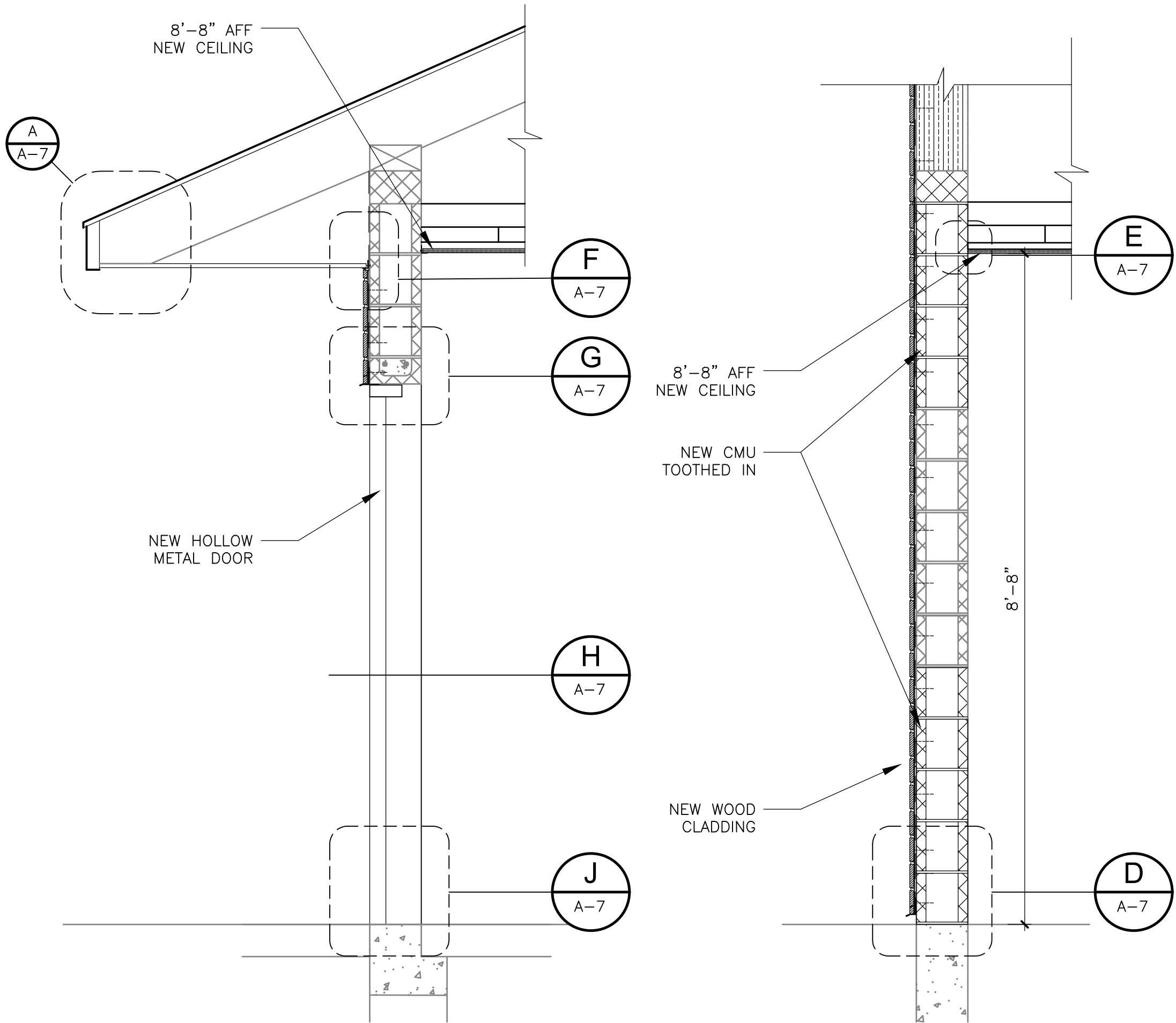
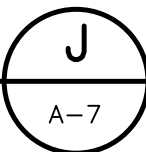
1 1/2" = 1'-0"



DOOR JAMB

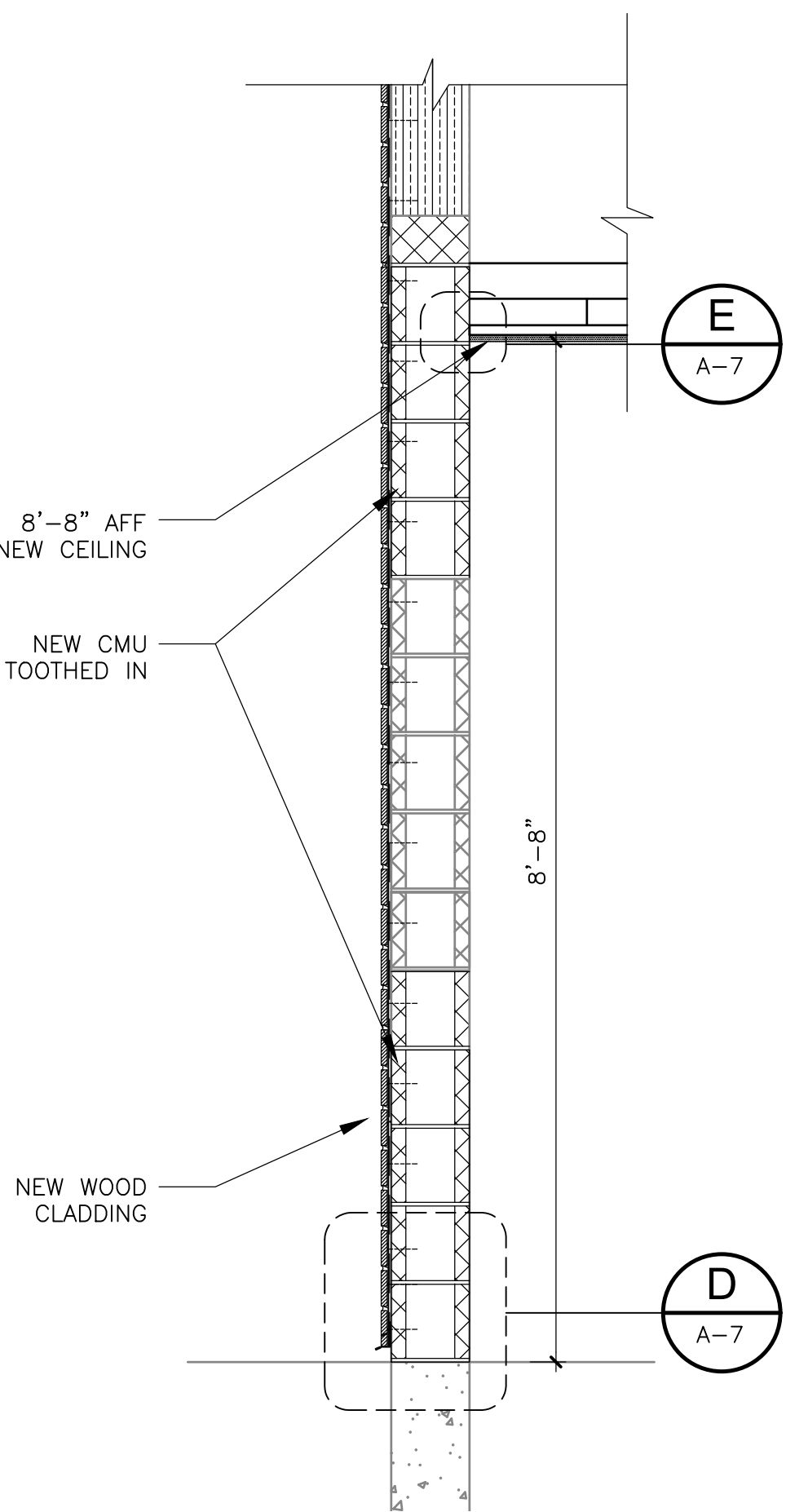
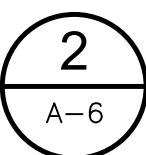
DETAIL

1 1/2" = 1'-0"



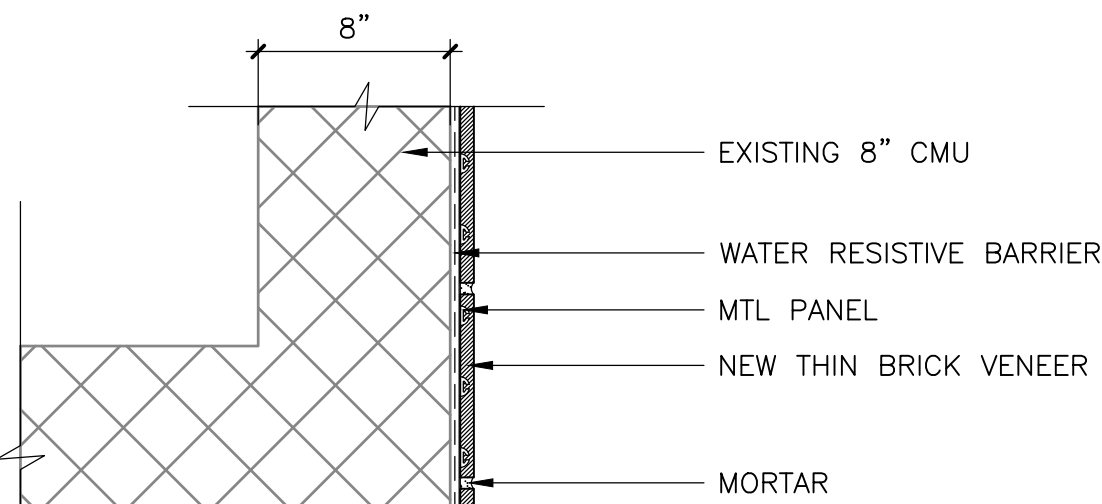
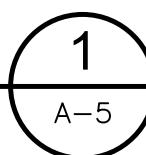
WALL SECTION

3/4" = 1'-0"



WALL SECTION

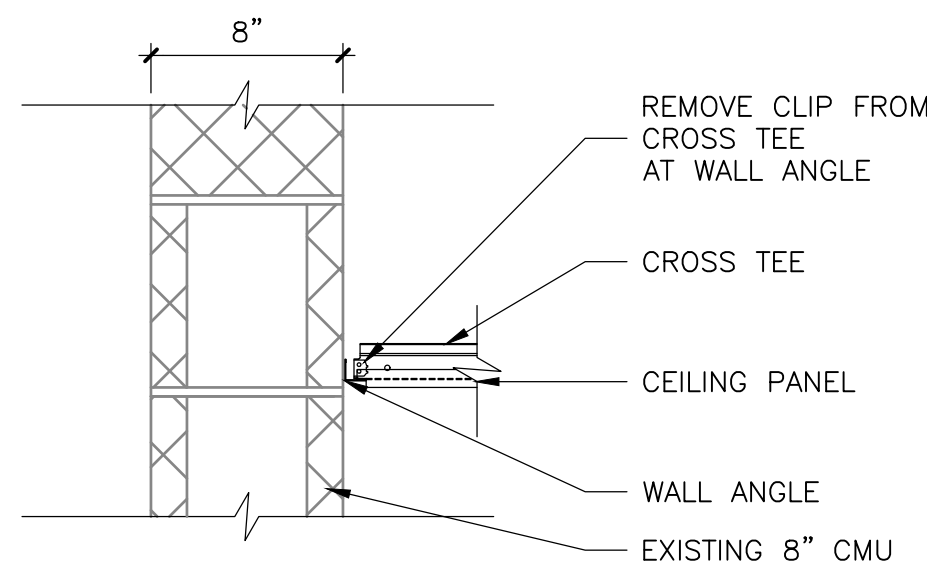
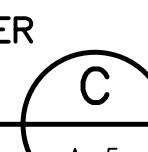
3/4" = 1'-0"



OUTSIDE CORNER

DETAIL

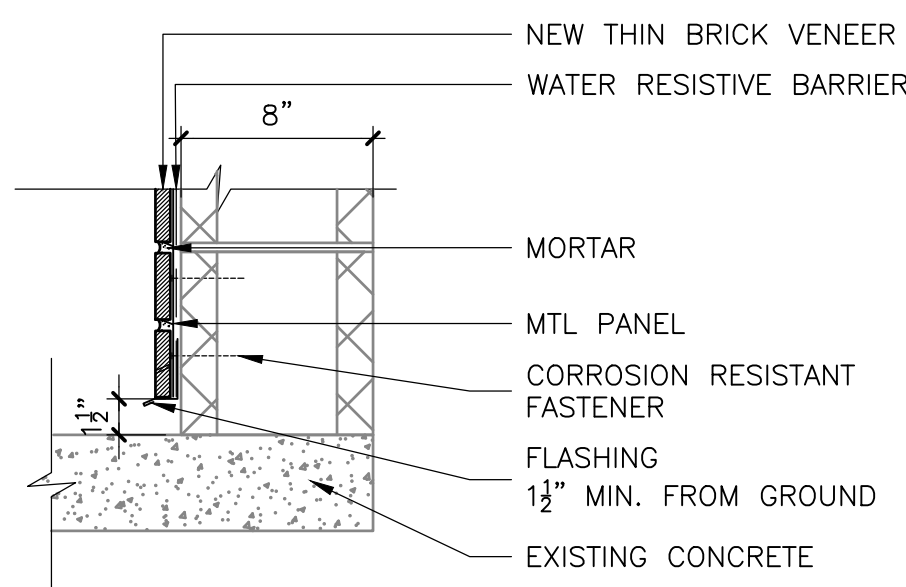
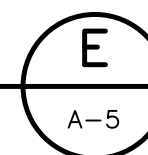
1 1/2" = 1'-0"



CEILING

DETAIL

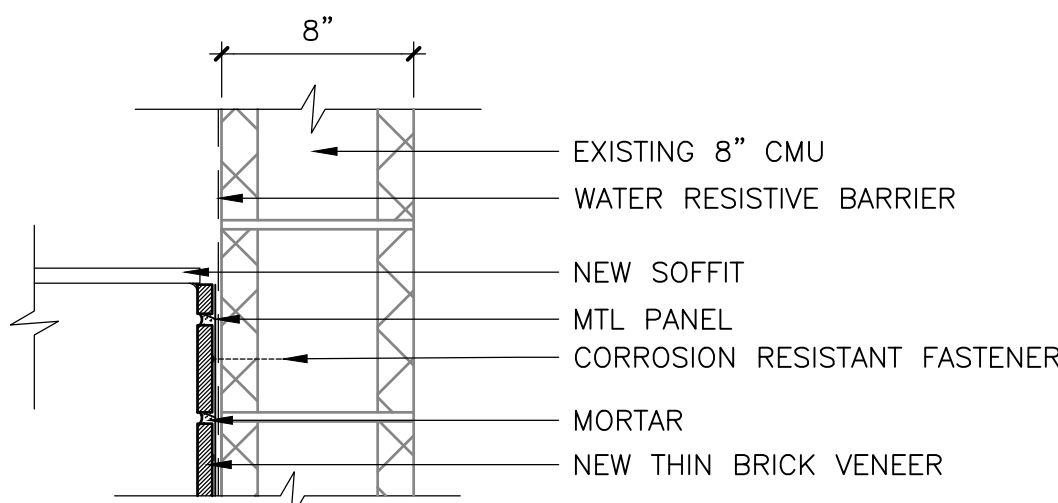
1 1/2" = 1'-0"



BASE

DETAIL

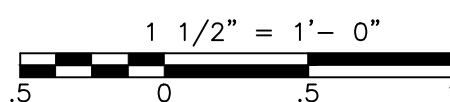
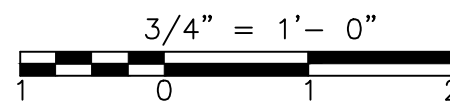
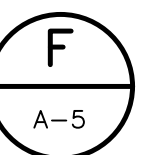
1 1/2" = 1'-0"



SOFFIT

DETAIL

1 1/2" = 1'-0"



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	E. ROSA
DRAWN BY:	A. LAM
SHEET CHK'D BY:	X
CROSS CHK'D BY:	X
APPROVED BY:	X
DATE:	JANUARY 2022



CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

PUBLIC RESTROOMS
FINISH AND DOOR SCHEDULES
AND WALL SECTIONS AND DETAILS

PROJECT NO. 56318-253750
FILE NAME: xxxxxxxx
SHEET NO.
A-7

XREFs: [CDMS-2436] Images: []
Last saved by: EGANJP Time: 1/5/2022 2:33:18 PM
pw:\cdmsmith-cd02-pw.bentley.com:PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E001NFNT.dwg
© 2001 CDM SMITH. ALL RIGHTS RESERVED.
REUSE OF DOCUMENTS: THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

SCOPE OF WORK:

- PROJECT PROVIDES IMPROVEMENTS TO ARSENAL PARK IN WATERTOWN, MA. ELECTRICAL IMPROVEMENTS INCLUDE, BUT ARE NOT LIMITED TO DEMOLITION OF EXISTING DISTRIBUTION AND LIGHTING EQUIPMENT; NEW POLE-MOUNTED ROADWAY AND AREA LIGHTING; NEW POLE-MOUNTED SPORTS LIGHTING; ELECTRICAL SERVICE UPGRADES; NEW BOLLARD PATHWAY LIGHTING; NEW OUTDOOR RECEPTACLES; WIRING FOR ALL NEW EQUIPMENT; AND ELECTRICAL HANDHOLES AND UNDERGROUND RACEWAYS FOR ALL NEW EQUIPMENT.

GENERAL NOTES:

- ELECTRICAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL LAYOUT OF WORK TO BE INSTALLED UNDER THIS CONTRACT WITHOUT ATTEMPTING TO SHOW ALL DETAILS. FURNISH LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE CONTRACT DOCUMENTS.
- COORDINATE WORK WITH OTHER TRADES AND THE OWNER.
- MAINTAIN EXISTING PROCESS OPERATIONS. POWER INTERRUPTIONS TO ELECTRICAL EQUIPMENT SHALL BE AT OWNER'S CONVENIENCE WITH 72 HOURS MINIMUM NOTICE. EACH INTERRUPTION SHALL HAVE PRIOR WRITTEN APPROVAL.
- FIELD VERIFY EXISTING UNDERGROUND ELECTRICAL CONDUIT, CONCRETE DUCT BANKS, MANHOLES, PULL BOXES, ETC. AND MECHANICAL PIPING. CONTRACTOR SHALL INCLUDE IN BID COSTS ASSOCIATED WITH RELOCATION OR REMOVAL OF UNDERGROUND EQUIPMENT AS REQUIRED BY THIS CONTRACT. USE DUE CARE IN CONGESTED AREAS TO AVOID DAMAGE TO EXISTING UNDERGROUND UTILITIES.
- CONTRACTOR'S WORK SHALL INCLUDE COMPLETE TESTING OF EQUIPMENT AND WIRING INCLUDING MAKING MINOR CORRECTIONS, CHANGES, OR ADJUSTMENTS NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY; SUBSTANDARD WORK WILL BE REJECTED.
- DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO MECHANICAL, STRUCTURAL DRAWINGS, AND APPROVED MANUFACTURER'S SHOP DRAWINGS FOR EXACT LOCATION OF EQUIPMENT. EXCEPT WHERE DIMENSIONS ARE SHOWN, LOCATIONS OF EQUIPMENT, FIXTURES, OUTLETS, AND SIMILAR DEVICES ARE APPROXIMATE.
- WORK SHALL COMPLY WITH NEC AND LOCAL CODES.
- DO NOT SPLICE CONDUCTORS EXCEPT AS NOTED.
- POWER AND CONTROL CONDUITS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR WIRE SIZED PER TABLE 250.122 OF THE NEC UNLESS OTHERWISE NOTED.
- COORDINATE SEQUENCE OF CONSTRUCTION WITH CIVIL, MECHANICAL, AND STRUCTURAL DISCIPLINES. PROVIDE TEMPORARY POWER AND CONTROL CIRCUITS AS REQUIRED TO MAINTAIN FACILITY OPERATION. VERIFY EXISTING UTILITIES IN AREA OF CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL UNDERGROUND INFORMATION.
- REPAIR, IN ACCORDANCE WITH SPECIFICATIONS, SIDEWALKS, WALLS, ROADWAYS, ETC. DISTURBED BY CONSTRUCTION ACTIVITIES WHETHER OR NOT SHOWN FOR REPAIR/REPAVING ON CIVIL DRAWINGS.
- CONCEAL CONDUITS TO GREATEST EXTENT PRACTICABLE. CONDUITS RUN AT EXISTING STRUCTURES SHALL BE RUN EXPOSED.
- WHERE LOCAL DISCONNECTS AND CONTROL PANELS ARE SHOWN ON PLAN VIEWS, LOCATIONS ARE APPROXIMATE. ADJUST LOCATION AS REQUIRED TO COMPLY WITH NEC ARTICLE 110 FOR WORKING CLEARANCES.
- DO NOT INSTALL MAJOR CONDUIT RUNS THROUGH AREAS DESIGNATED FOR FUTURE STRUCTURES.

SUBMITTALS:

- SUBMIT SHOP DRAWINGS FOR EQUIPMENT, MATERIALS AND OTHER ITEMS FURNISHED UNDER DIVISION 26.
- SUBMIT CONDUIT SHOP DRAWINGS FOR YARD ELECTRICAL, WITHIN AND UNDER ROADS, BUILDINGS AND STRUCTURES PRIOR TO COMMENCING WORK. DO NOT POUR CONCRETE UNTIL ENGINEER HAS APPROVED THE ASSOCIATED SHOP DRAWING.
- SUBMIT OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- SUBMIT STARTUP/COMMISSIONING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- SUBMIT TESTING AND SERVICE REPORTS FOR EQUIPMENT AND MATERIALS FURNISHED UNDER DIVISION 26.
- SUBMIT TRAINING PLANS FOR EQUIPMENT FURNISHED UNDER DIVISION 26.
- SUBMIT RECORD DOCUMENTATION TO ACCURATELY SHOW COMPLETED INSTALLATION. INCLUDE MODIFICATIONS TO CONTRACT DOCUMENTS (ONE LINE POWER DIAGRAMS, EQUIPMENT ELEVATIONS, PANEL SCHEDULES, ELEMENTARY CONTROL DIAGRAMS, RISER DIAGRAMS, PLANS, CONDUIT AND DUCTBANK ROUTING, ETC) ALONG WITH ADDITIONAL DRAWINGS OR SKETCHES CREATED TO CONVEY COMPLETED INSTALLATION.

INTERPRETATION OF CONTRACT DOCUMENTS:

- IF DURING PERFORMANCE OF WORK, THERE IS A CONFLICT, ERROR, OR DISCREPANCY BETWEEN OR AMONG CONTRACT DOCUMENTS AND LAWS AND REGULATIONS, PROVIDE THE HIGHER PERFORMANCE STANDARD UNLESS OTHERWISE DIRECTED BY ENGINEER.
- PRIORITY OF DOCUMENTS: FIGURED DIMENSIONS GOVERN OVER SCALED DIMENSIONS, DETAILED DRAWINGS GOVERN OVER GENERAL DRAWINGS, LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS, CHANGE ORDER DRAWINGS SUPERCEDE ORIGINAL CONTRACT DRAWINGS, AND CONTRACT DRAWINGS GOVERN SHOP DRAWINGS.
- IN GENERAL, DRAWINGS DO NOT SHOW CONDUIT ROUTING. PLAN AND ROUTE CONDUITS IN COMPLIANCE WITH SPECIFICATIONS AND DRAWING DETAILS. COORDINATE INSTALLATION WITH OTHER TRADES AND ACTUAL SUPPLIED EQUIPMENT.
- DUCTBANK ROUTING SHOWN ON ELECTRICAL SITE PLANS IS DIAGRAMMATIC IN NATURE AND MAY NOT INCLUDE INTERFERENCES THAT MAY BE PRESENT.

ENCLOSURE TYPES:

PROVIDE THE FOLLOWING NEMA TYPE ELECTRICAL ENCLOSURES, UNLESS OTHERWISE NOTED:

- NEMA 1 WITHIN THE EXISTING BATHROOM BUILDING AND IN ALL PEDESTAL CABINETS.
- NEMA 3R IN OUTDOOR LOCATIONS.

MATERIALS AND EQUIPMENT:

- PROVIDE NEW MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY NOTED OTHERWISE.
- ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC., AND SHALL BEAR APPROPRIATE UL LISTING MARK OR CLASSIFICATION MARKING. EQUIPMENT, MATERIALS, ETC. UTILIZED NOT BEARING A UL CERTIFICATION SHALL BE FIELD OR FACTORY UL CERTIFIED PRIOR TO EQUIPMENT ACCEPTANCE AND USE.
- PROVIDE MAJOR ELECTRICAL EQUIPMENT BY A SINGLE MANUFACTURER: I.E. UNIT SUBSTATIONS, SWITCHGEAR, MOTOR CONTROL CENTERS, DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, ETC.

EQUIPMENT SIZE, HANDLING AND STORAGE:

- COORDINATE WITH EQUIPMENT MANUFACTURER SHIPPING SPLITS TO PERMIT SAFE HANDLING AND PASSAGE OF EQUIPMENT TO FINAL INSTALLATION LOCATION.
- COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR UPRIGHT EQUIPMENT ORIENTATION DURING TRANSPORTATION.
- PROTECT EQUIPMENT FROM MECHANICAL INJURY, OR EXPOSURE TO MOISTURE, CHEMICALS, OR CORROSIVE GASES. DO NOT STORE ELECTRICAL EQUIPMENT OUTDOORS.
- PROVIDE AND ENERGIZE TEMPORARY SPACE HEATERS IF REQUIRED TO CONTROL MOISTURE DURING STORAGE.

CUTTING AND PATCHING:

- CUT AND PATCH IN A WORKMANLIKE MANNER AS REQUIRED TO INSTALL ELECTRICAL WORK.
- CUTTING OF STRUCTURAL MEMBERS SUCH AS JOISTS, BEAMS, GIRDERS OR COLUMNS IS PROHIBITED.
- PATCH SURFACES TO RESTORE TO ORIGINAL INTEGRITY (WATERPROOF OR FIREPROOF AS REQUIRED) AND APPEARANCE.

SERVICE AND METERING:

- ELECTRIC POWER COMPANY SERVING THIS PROJECT IS EVERSOURCE. COMPLY WITH POWER COMPANY STANDARDS.
- PAY FOR FEES AND CHARGES AS REQUIRED FOR TEMPORARY/CONSTRUCTION POWER FOR CONTRACTOR'S USE.
- MAKE ARRANGEMENTS WITH POWER COMPANY AS REQUIRED FOR ANY SHUTDOWNS. PAY ANY AND ALL POWER COMPANY FEES.

DEMOLITION AND DISPOSITION OF EQUIPMENT:

- DRAWING PLANS SHOWING REMOVAL OF MAJOR MECHANICAL AND ELECTRICAL EQUIPMENT IS NOT INTENDED TO SHOW ALL COMPONENTS TO BE DEMOLISHED; NOT ALL PIPING, CONDUITS, DUCTS, EQUIPMENT, ANCILLARY DEVICES, ETC. ARE SHOWN. THE CONTRACTOR IS TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
- UNLESS OTHERWISE SPECIFICALLY NOTED, REMOVE UNUSED EXPOSED CONDUIT AND SUPPORT SYSTEMS BACK TO SOURCE AND/OR POINT OF CONCEALMENT INCLUDING ABOVE ACCESSIBLE CEILING FINISHES. WIRING SHALL BE REMOVED.
- CUT FLUSH WITH SLAB, CEILING, OR WALL ABANDONED CONCEALED CONDUIT. SUITABLY PLUG CONDUITS.
- REPAIR AND RESTORE ADJACENT CONSTRUCTION AND FINISHES AFTER DEMOLITION IS COMPLETE.
- MATERIAL AND EQUIPMENT INDICATED FOR REMOVAL OR DEMOLITION IS TO BECOME CONTRACTOR'S PROPERTY UPON REMOVAL, UNLESS NOTED OTHERWISE. REMOVED MATERIAL TO BE PROPERLY HANDLED AND DISPOSED OF.

CLEANING:

- REMOVE ALL RUBBISH AND DEBRIS FROM INSIDE AND AROUND ELECTRICAL EQUIPMENT AND ENCLOSURES.
- REMOVE DIRT, DUST OR CONCRETE SPATTER FROM INTERIOR AND EXTERIOR OF EQUIPMENT USING BRUSHES, VACUUM CLEANER OR CLEAN LINT-FREE RAGS. DO NOT USE COMPRESSED AIR.

DELEGATED DESIGN / PROFESSIONAL ENGINEERING SERVICES:

- WHEN ENGINEERING SERVICES ARE SPECIFIED TO BE PROVIDED BY CONTRACTOR, CONTRACTOR SHALL RETAIN A LICENSED PROFESSIONAL ENGINEER TO PERFORM THE SERVICES. ENGINEER SHALL BE LICENSED AT THE TIME SERVICES ARE PERFORMED AND LICENSED IN THE STATE IN WHICH PROJECT IS LOCATED. IF THE STATE ISSUES DISCIPLINE SPECIFIC LICENSES, ENGINEER SHALL BE LICENSED IN THE APPLICABLE DISCIPLINE. ENGINEER SHALL BE EXPERIENCED IN THE TYPE OF WORK BEING PERFORMED.
- ENGINEERING WORK SHALL BE DONE ACCORDING TO THE APPLICABLE REGULATIONS FOR PROFESSIONAL ENGINEERS TO INCLUDE SIGNING, SEALING AND DATING DOCUMENTS.

REV.	DATE	DRWN	CHKD		REMARKS

DESIGNED BY:	Z. BARRETT
DRAWN BY:	J. EGAN
SHEET CHK'D BY:	N. HOLWAY
CROSS CHK'D BY:	G. HOWARD
APPROVED BY:	X
DATE:	DECEMBER 2021



CITY OF WATERTOWN, MASSACHUSETTS		PROJECT NO. 56318-253750 FILE NAME: E001NFNT.DWG
ARSENAL PARK IMPROVEMENTS PROJECT PHASE B	ELECTRICAL GENERAL NOTES	SHEET NO. E-1

XREFs: [CDWS-2436] Images: []
Last saved by: EGANJP Time: 12/13/2021 2:40:49 PM
pw:\csm\smith-cad2-pw\entley.com\pw_PL1\56318\253750\04 CAD\EO02NFLG.dwg
© 2021 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

ONE LINE OR CONTROL DIAGRAM	PLAN	DESCRIPTION
		LOW VOLTAGE AIR OR MOLDED CASE CIRCUIT BREAKER, 3 POLE UNLESS OTHERWISE NOTED.
		COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS OTHERWISE NOTED: * FVR – FULL VOLTAGE REVERSING RVNR – REDUCED VOLTAGE NON-REVERSING RVAT – REDUCED VOLTAGE AUTOTRANSFORMER RVSS – REDUCED VOLTAGE SOLID STATE 2S1W – TWO SPEED, ONE WINDING RS2W – TWO SPEED, TWO WINDING (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
		NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
		FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING AND FUSE SIZE AS NOTED * AMPERE RATING NOTED IF OTHER THAN 30A FUSE RATING (DIAGRAMMATICALLY SHOWN, CONTRACTOR SHALL FIELD LOCATE)
		TRANSFORMER, RATINGS AND CONNECTIONS AS NOTED, UNLESS OTHERWISE NOTED ON THE SINGLE LINE DIAGRAMS. ALL DRY TYPE TRANSFORMERS SERVICING ADMINISTRATIVE AND LABORATORY SPACES SHALL HAVE A K FACTOR OF 4. ISOLATION TRANSFORMERS SHALL HAVE A K-20 RATING
		GENERATOR, RATINGS AND CONNECTIONS AS NOTED
		AUTOMATIC OR MANUAL TRANSFER SWITCH NO.1 (ATS-1), (MTS-1) "N" INDICATES NORMAL OR PREFERRED SOURCE "S" INDICATES STANDBY OR ALTERNATE SOURCE 100A INDICATES CONTINUOUS CURRENT RATING
		UNIT HEATER – ELECTRIC HEATING COIL AND FAN # – RATING
		MOTOR, NUMERAL INDICATES HORSEPOWER
		CONDUCTORS OR CONDUITS CROSSING PATHS BUT NOT CONNECTED
		CONDUCTORS ELECTRICALLY CONNECTED
		LIGHTNING ARRESTER
		GROUND OR GROUND ROD
		FUSE, AMPERE RATING AS NOTED
		CONTACT, NORMALLY OPEN (NO)
		CONTACT, NORMALLY CLOSED (NC)
		INDICATES LIMITS OF ELECTRICAL EQUIPMENT OR WIRING ENCLOSURE
		THERMOSTAT
		SWITCH

SYMBOL	DESCRIPTION
	HOME RUN TO DESIGNATED EQUIPMENT. BRANCH CIRCUIT CONDUIT WITH 2 NO. 12 AWG BRANCH CIRCUIT CONDUCTORS AND 1 NO. 12 AWG GROUND CONDUCTOR UNLESS OTHERWISE NOTED. NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS. FOR MINIMUM SIZE CONDUIT PERMITTED REFER TO THE SPECIFICATIONS.
	CONDUIT CONCEALED IN WALL, IN SLAB ABOVE, OR ABOVE CEILING.
	CONDUIT CONCEALED IN OR BELOW FLOOR OR UNDERGROUND.
	CONDUIT RUN EXPOSED. RUN PARALLEL OR PERPENDICULAR TO STRUCTURE OR WALL.
	"X" INDICATES EXPLOSION PROOF CONDUIT SEAL FITTING.
	CONDUIT STUBBED OUT AND CAPPED
	DENOTES A QUANTITY OF TWO (2) 3-INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG GROUND CONDUCTOR.
	DENOTES A QUANTITY OF TWO INSTRUMENT CABLES. EACH CABLE TO CONSIST OF TWO NO. 16 AWG CONDUCTORS TWISTED TOGETHER AND COVERED WITH A METALLIC SHIELD AND AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
	SAME AS ABOVE EXCEPT CABLE TO CONSIST OF THREE NO. 16 AWG CONDUCTORS TWISTED, SHIELDED AND COVERED WITH AN OVERALL PROTECTIVE JACKET. REFER TO THE SPECIFICATIONS FOR THE EXACT CABLE TO BE PROVIDED.
	THREE 4-INCH CONDUITS
	INDICATES MOTOR STARTER AND/OR MOTOR CONTROL EQUIPMENT WITHIN THE ENCLOSURE.
	LIGHTING PANELBOARD (LP-#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS
	POWER PANELBOARD (PP-#) OR DISTRIBUTION PANELBOARD (DP-#) SHOWN ON PLAN PER ACTUAL PANEL DIMENSIONS
	DUPLEX RECEPTACLE, 20A, 120V, 2P, 3W * GFCI – GROUND FAULT CIRCUIT INTERRUPTER TYPE WP – WEATHERPROOF T – TRANSIENT VOLTAGE SURGE SUPPRESSOR IC – ISOLATED GROUND 4 – CIRCUIT NUMBER
	JUNCTION BOX
	LIGHTING FIXTURE "A" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) "b" – CONTROLLED BY SWITCH "b" "3" – CIRCUIT NUMBER "T*" – OPTICAL DISTRIBUTION (e.g. T2 FOR TYPE II OPTICAL DISTRIBUTION)
	WALL MOUNTED LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE
	LIGHTING BOLLARD OR ACCENT FIXTURE, NOTATIONS SAME AS ABOVE
	POLE-MOUNTED LED SPORTS LIGHTING FIXTURES, NOTATIONS SAME AS ABOVE
	PHOTOCELL
	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LAMP HEADS "EM" – FIXTURE TYPE (SEE LIGHTING FIXTURE SCHEDULE) "3" – SUPERVISORY CIRCUIT * – FIXTURE TAG #
	INDICATES EQUIPMENT AND MATERIALS TO BE DEMOLISHED
	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE ROOM OR AREA IN WHICH THIS NOTATION APPEARS SHALL BE OF NEMA 4X CONSTRUCTION (OR GASKETED AND SUITABLE FOR USE IN A WET LOCATION WHERE NEMA STANDARDS DO NOT APPLY) UNLESS OTHERWISE NOTED.
	GROUND SYSTEM GRID OR LOOP, 36" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
	FIELD INSTRUMENT (SEE ABBREVIATION LIST FOR TAG DEFINITIONS)
	3/4" x 10'-0" GROUND ROD. UNLESS SPECIFIED OTHERWISE.

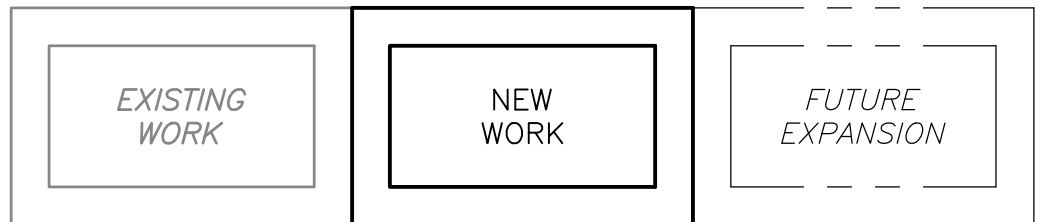
ABBREVIATIONS	
A	AMPS
AC	ALTERNATING CURRENT
AE	ANALYZER ELEMENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIT	ANALYZER INDICATOR TRANSMITTER
AL	ALUMINUM
AIC	AMPERE INTERRUPTING CAPACITY
AMP	AMPERE
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CGD	COMBUSTIBLE GAS DETECTOR
CKT	CIRCUIT
CLB	CURRENT LIMITING BREAKER
CLF	CURRENT LIMITING FUSE
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CR	CONTROL RELAY
CS	CONTROL SWITCH/CONTROL STATION
CT	CURRENT TRANSFORMER
CU	COPPER
CWS	CONDUIT WALL SEAL
DC	DIRECT CURRENT
DIA	DIAMETER
DMU	DIGITAL METERING UNIT
DN	DOWN
EC	EMPTY CONDUIT
EHH	ELECTRICAL HANDHOLE
ELEC	ELECTRICAL
ELEV	ELEVATION
EM	EMERGENCY
ENCL	ENCLOSURE OR ENCLOSED
EQUIP	EQUIPMENT
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EX	EXISTING
FE	FLOW ELEMENT
FIT	FLOW INDICATING TRANSMITTER
FO	FIBER OPTIC

ABBREVIATIONS (CONTINUED)	
FS	FLOW SWITCH
FU	FUSE
GCP	GENERATOR CONTROL PANEL
GEN	GENERATOR
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL
HACR	HEATING & AIR CONDITIONING RATED
HH	HANDHOLE
HT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HZ	HERTZ
IAM	INDIVIDUAL ADDRESSABLE MODULE
ID	IDENTIFICATION
ISB	INTRINSICALLY SAFE BARRIER
ISR	INTRINSICALLY SAFE RELAY
K	KILO (PREFIX)
kcmil	1000 CIRCULAR MILS
KVA	KILOVOLT AMPERES
KW	KILOWATTS
LA	LIGHTING ARRESTER
LE	LEVEL ELEMENT
LIT	LEVEL INDICATING TRANSMITTER
LTG	LIGHTING
LP	LIGHTING PANEL
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N	NEUTRAL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OH	OVERHEAD

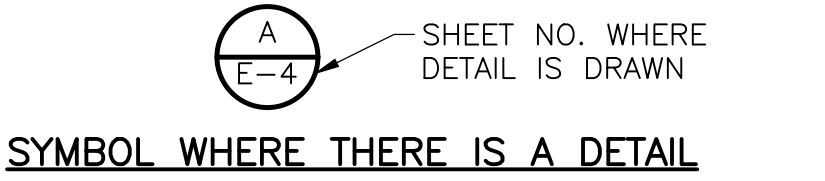
ABBREVIATIONS (CONTINUED)	
OL	OVERLOAD
PB	PULL BOX
PCP	PUMP CONTROL PANEL
PH	PHASE
PMH	POWER MANHOLE
PNL	PANEL OR PANELBOARD
PLC	PROGRAMMABLE LOGIC CONTROLLER
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RECPT	RECEPTACLE
REQD	REQUIRED
QTY	QUANTITY
SA	SURGE ARRESTER
SEC	SECONDS OR SECONDARY
SH	SHIELDED OR SPACE HEATER
SHH	SIGNAL HANDHOLE
SPD	SURGE PROTECTIVE DEVICE
SS	STAINLESS STEEL
SV	SOLENOID VALVE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME TO CLOSE OR TRAY CABLE
TEL	TELEPHONE
TO	TIME TO OPEN
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TS	TWISTED SHIELDED OR THERMAL SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
VF	VENTILATION FAILURE
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS, WIDTH, WITH, WIRE
WP	WEATHERPROOF
XP	EXPLOSION PROOF
XFMR	TRANSFORMER

NOTES:

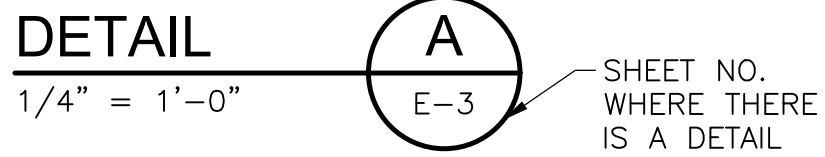
- IN GENERAL CONDUIT ROUTING FOR EQUIPMENT AND DEVICES IS NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING ALL CONDUITS WHICH SHALL INCLUDE CONDUITS SHOWN ON ONE-LINE AND RISER DIAGRAMS AND HOME-RUNS SHOWN ON PLAN DRAWINGS. REFER TO SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS.
- THE WIRING DIAGRAMS AND THE QUANTITY AND SIZE OF WIRES AND CONDUITS REPRESENT A SUGGESTED ARRANGEMENT BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED, THE BASIC SEQUENCE AND METHOD OF CONTROL AS INDICATED ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS MUST BE MAINTAINED.
- INSTRUMENTATION AND CONTROL RISER DIAGRAM: POWER, CONTROL, SIGNAL, AND DATA HIGHWAY WIRING REQUIREMENTS FOR INSTRUMENTS AND CONTROL DEVICES CONTROLLED/MONITORED FROM INSTRUMENTATION AND CONTROL PANELS SUCH AS RTUs, PLCs, TERMINAL CABINETS, AND REMOTE I/O PANELS ARE TYPICALLY SHOWN ON THE INSTRUMENTATION AND CONTROL ONE LINE DIAGRAMS. THE PARAMETERS TYPICALLY IDENTIFIED ON THE ONE LINE DIAGRAMS ARE: CIRCUIT IDENTIFICATION, CIRCUIT ORIGIN AND DESTINATION, CONDUIT SIZE, WIRE SIZE, QUANTITY AND TYPE FOR COMPLETE CIRCUIT LENGTH, AND AUXILIARY DEVICES ASSOCIATED WITH THE CONTROL/PROTECTION OF THE POWERED EQUIPMENT.
- FLOOR PLANS: FOR DETERMINING THE LENGTH OF CIRCUITS LOCATED WITHIN STRUCTURES, FLOOR PLANS SHOW THE LOCATION OF ELECTRICAL DISTRIBUTION EQUIPMENT, CONTROL PANELS, UTILIZATION EQUIPMENT, INSTRUMENTS, ANCILLARY EQUIPMENT AND DEVICES AND THE ANTICIPATED PENETRATION LOCATIONS WHERE CONDUITS EXIT/ENTER THE STRUCTURE. HOMERUNS MAY ALSO BE SHOWN FROM MISCELLANEOUS EQUIPMENT NOT SHOWN ON A ONE LINE OR RISER DIAGRAM.



EXISTING, NEW OR FUTURE CONDITION DESIGNATION

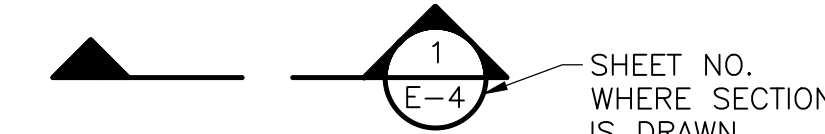


SYMBOL WHERE THERE IS A DETAIL

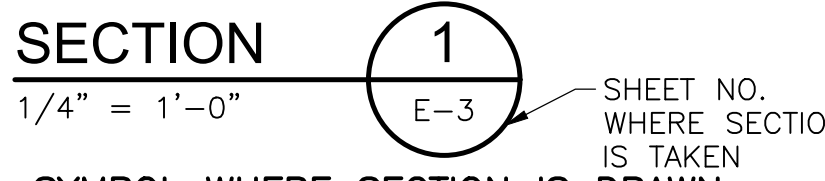


SYMBOL WHERE DETAIL IS DRAWN

DETAIL SYMBOL

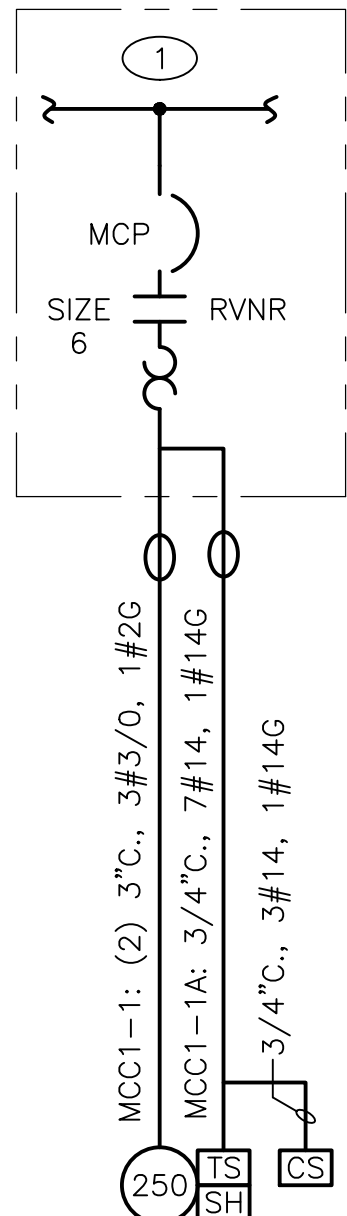


SYMBOL WHERE THERE IS A SECTION



SYMBOL WHERE SECTION IS DRAWN

SECTION SYMBOL



TYPICAL ONE LINE BLOCK SHOWING POWER AND CONTROL TO EQUIPMENT

Ø INDICATES CONDUIT IS ALL OR PARTIALLY LOCATED UNDERGROUND. CONDUIT SIZE SHOWN INDICATES THE SIZE WITHIN STRUCTURE. UNDERGROUND CONDUIT SIZE IS SHOWN ON DUCT BANK SECTIONS.

MCC1-1: (2) 3" C., 3#3/0, 1#2G DENOTES A QUANTITY OF TWO (2) 3-INCH CONDUITS EACH CONTAINING THREE NO. 3/0 AWG CONDUCTORS AND 1 NO. 2 AWG GROUND CONDUCTOR, FROM NEMA SIZE 6 STARTER IN MCC-1 TO 250HP MOTOR LOAD.

MCC1-1A: 3/4" C., 7#14, 1#14G DENOTES ONE 3/4-INCH CONDUIT CONTAINING SEVEN NO. 14 AWG CONTROL CONDUCTORS AND 1 NO. 14 AWG GROUND CONDUCTOR.

MCC1-1 AND MCC1-1A: DENOTES CONDUIT IDENTIFICATION (ID) (TYPICAL)

NOTES:

- PROTECTIVE/CONTROL DEVICE AS SHOWN.
- CONTROL/AUXILIARY DEVICES AT OR NEAR EQUIPMENT. EQUIPMENT SHALL BE INSTALLED AND WIRED AS REQUIRED BY EQUIPMENT FURNISHED AND/OR CONTROL DIAGRAM.

GENERAL NOTE

THIS IS A STANDARD LEGEND. SOME SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

CITY OF WATERTOWN, MASSACHUSETTS

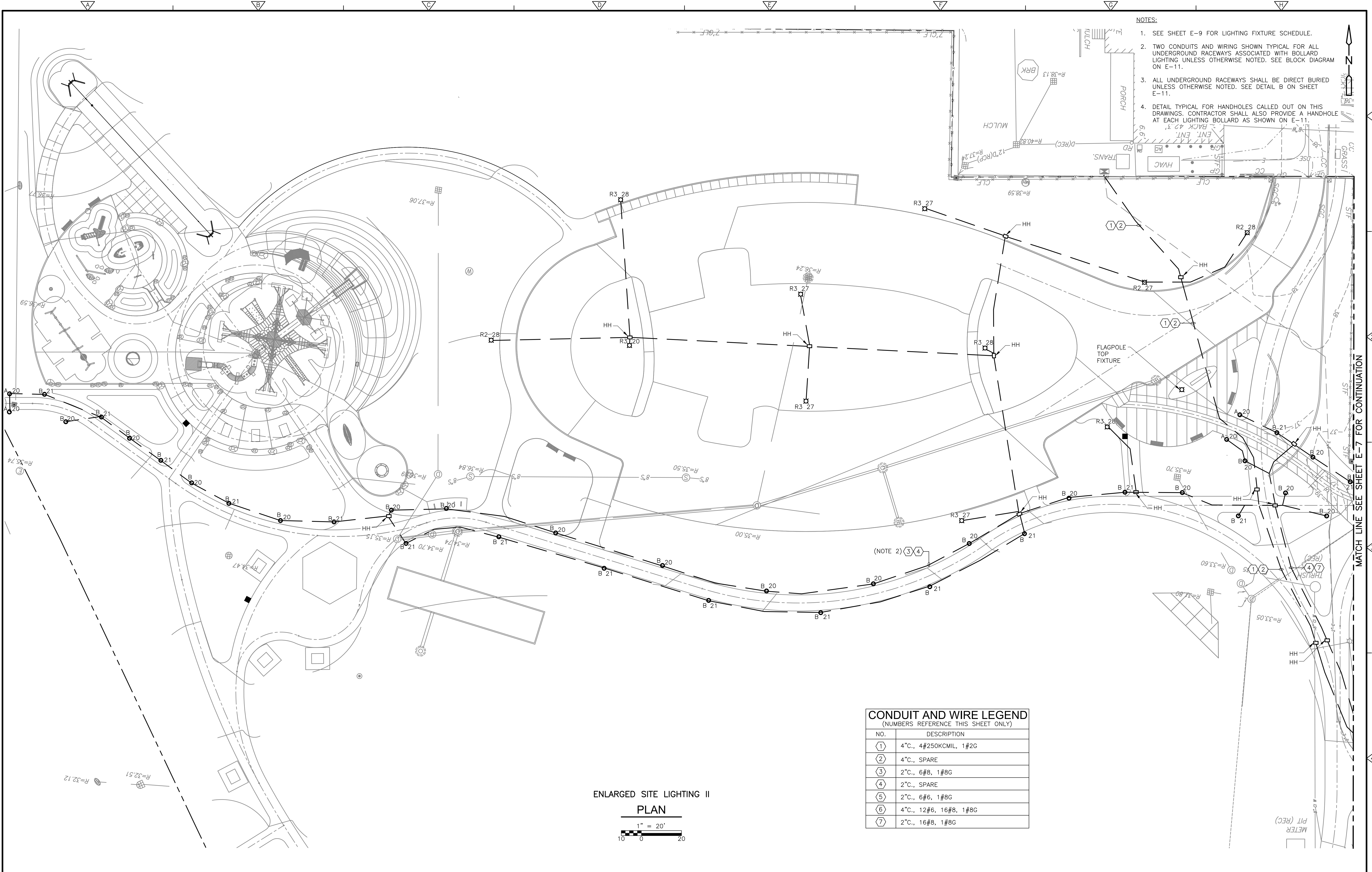
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

ELECTRICAL LEGEND

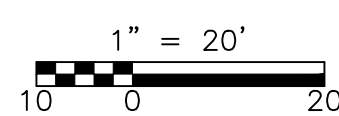
PROJECT NO: 56318-253750
FILE NAME: EO02NFLG.DWG

SHEET NO.

E-2



ENLARGED SITE LIGHTING II PLAN



CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
①	4" C., 4#250KCMIL, 1#2G
②	4" C., SPARE
③	2" C., 6#8, 1#8G
④	2" C., SPARE
⑤	2" C., 6#6, 1#8G
⑥	4" C., 12#6, 16#8, 1#8G
⑦	2" C., 16#8, 1#8G

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. HILL
DRAWN BY: D. HILL
SHEET CHK'D BY: Z. BARRETT
CROSS CHK'D BY: G. HOWARD
APPROVED BY: X
DATE: JANUARY 2022

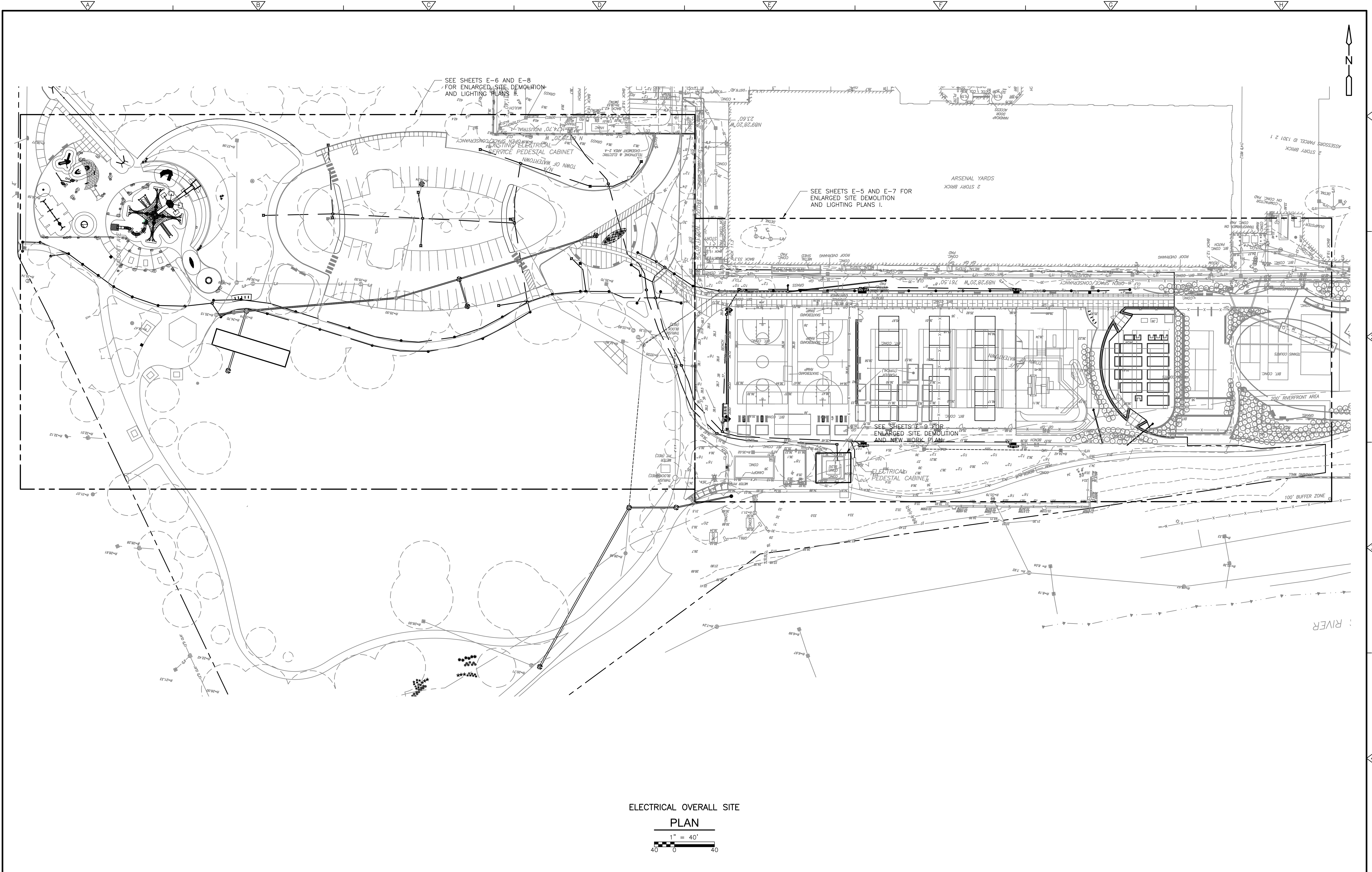


CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

ELECTRICAL
ENLARGED SITE
LIGHTING PLAN I

PROJECT NO. 56318-253750
FILE NAME: E008STLP.DWG
SHEET NO.
E-8

XREFs: [CDMS-2436] E:\p00000001_0001BSPL-B_XR-SITE_0001SVPL] Images: []
Last saved by: BOWEN Time: 1/5/2022 4:02:15 PM
pw:\cdmsmith-cad2-pw.bentley.com:PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\0005STPL.dwg
© 2022 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



ELECTRICAL OVERALL SITE
PLAN
1" = 40'
40 0 40

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: Z. BARRETT
DRAWN BY: J. EGAN
SHEET CHK'D BY: N. HOLWAY
CROSS CHK'D BY: G. HOWARD
APPROVED BY: X
DATE: JANUARY 2022

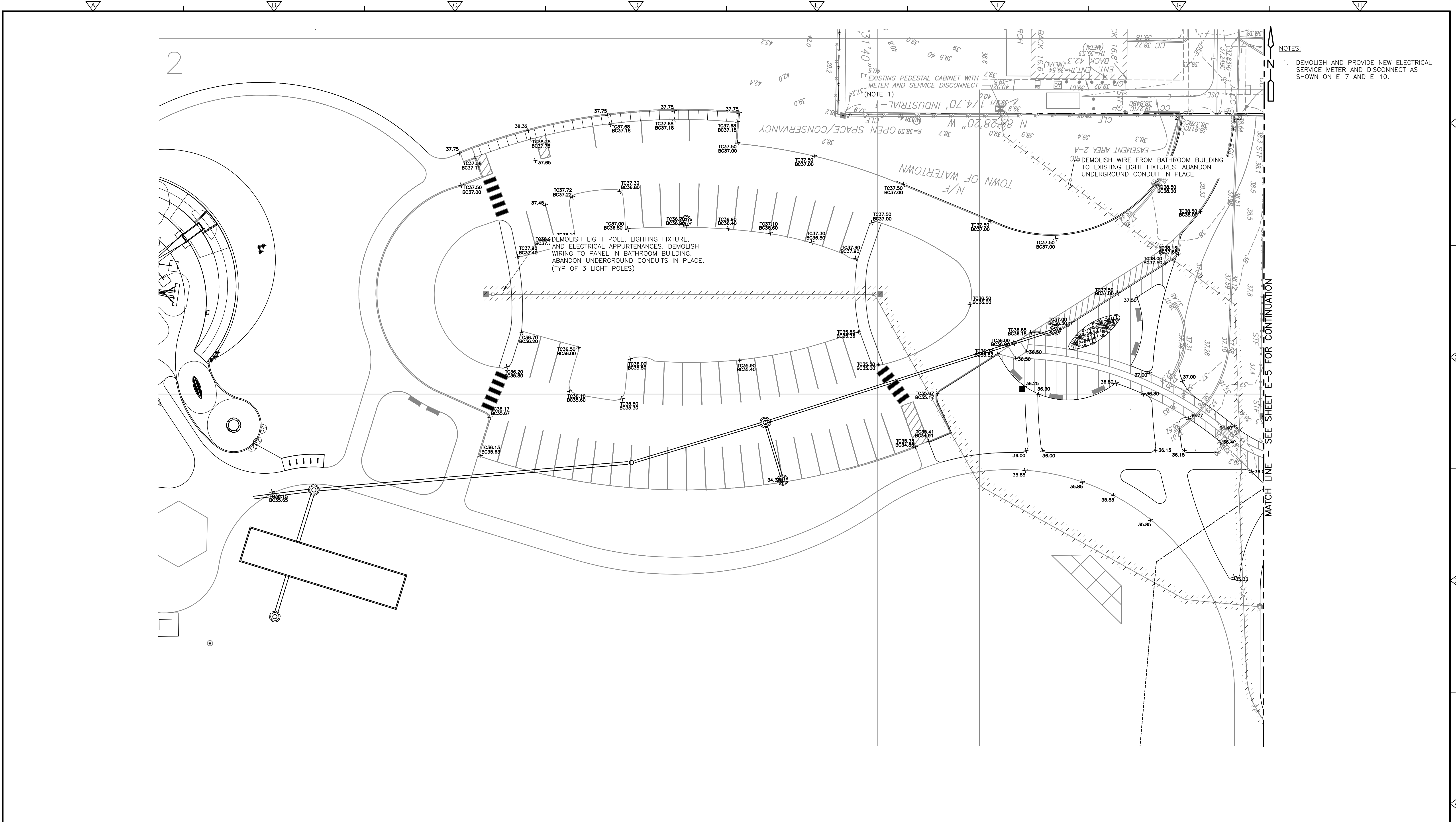
CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

ELECTRICAL OVERALL SITE PLAN
SHEET NO.
E-4

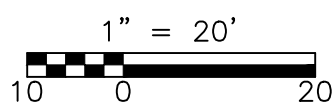
PROJECT NO. 56318-253750
FILE NAME: E004STPL.DWG
SHEET NO.
E-4

XREFs: [CDMS_2436] EW00000001_C001BSPL-B_C001SVPL_XR-SITE] Images: []
Last saved by: BOWEN Time: 1/5/2022 4:02:17 PM
pw\cdmsmith-cad2-pw.bentley.com:PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E006STDM.dwg
© 2022 CDM SMITH. ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



ELECTRICAL ENLARGED SITE DEMOLITION II

PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	Z. BARRETT
DRAWN BY:	J. EGAN
SHEET CHK'D BY:	N. HOLWAY
CROSS CHK'D BY:	G. HOWARD
APPROVED BY:	X
DATE:	JANUARY 2022

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

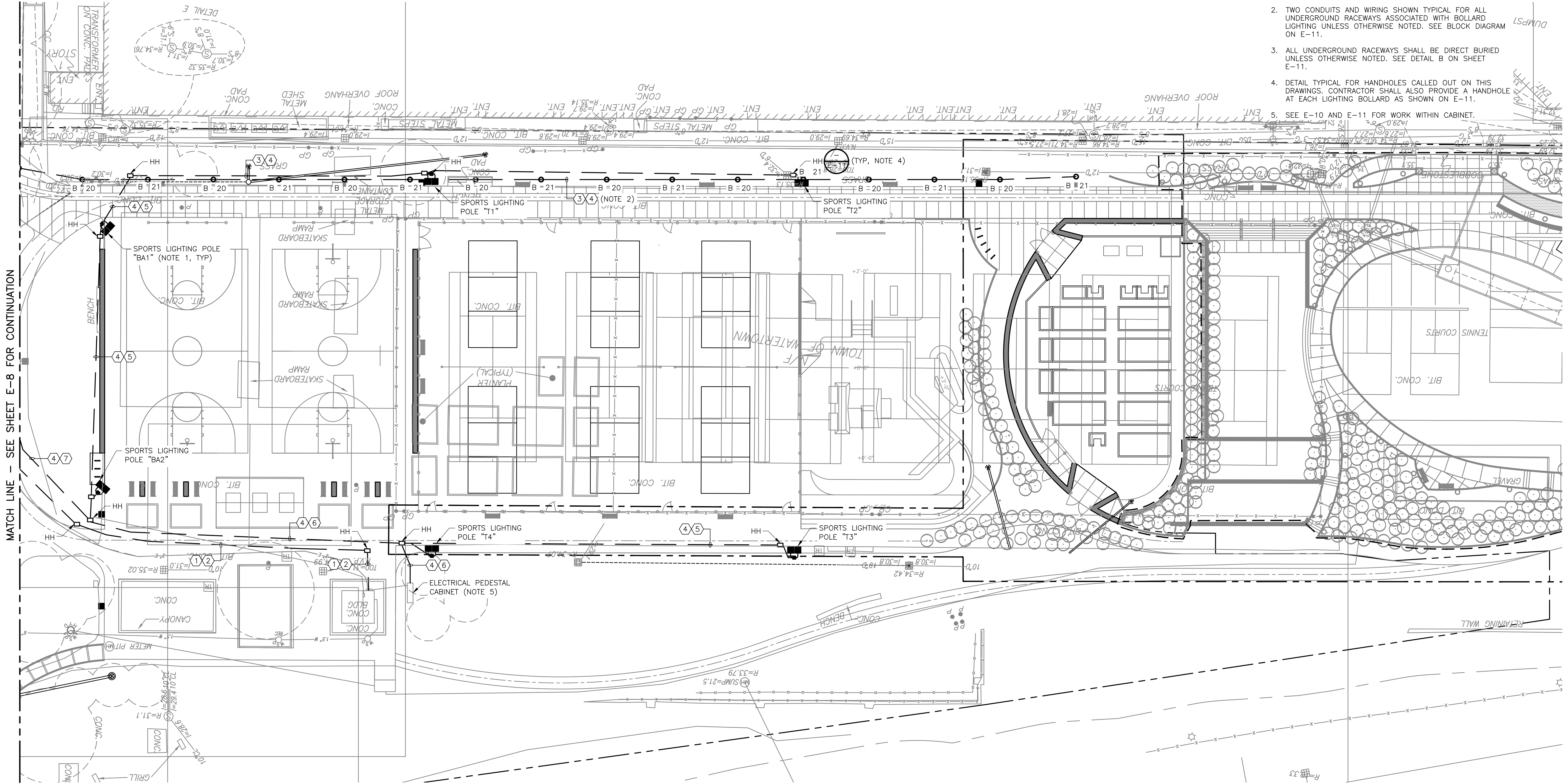
CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

ELECTRICAL ENLARGED SITE
DEMOLITION PLAN II

SHEET NO.
E-6

PROJECT NO: 56318-253750
FILE NAME: E006STDM.DWG

XREFs: [CDWS-2436] E:\projects\001\BSP1-B_XR-SITE_C001\SVPL Images: [
Last saved by: BOWEN Time: 1/5/2022 4:02:01 PM
pw\jensmith-cad2-pw.bentley.com:PW_PL1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E008STLP.dwg
© 2022 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

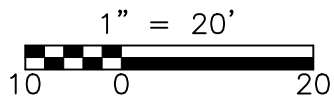


- NOTES:
- SEE SHEET E-10 FOR LIGHTING FIXTURE SCHEDULE.
 - TWO CONDUITS AND WIRING SHOWN TYPICAL FOR ALL UNDERGROUND RACEWAYS ASSOCIATED WITH BOLLARD LIGHTING UNLESS OTHERWISE NOTED. SEE BLOCK DIAGRAM ON E-11.
 - ALL UNDERGROUND RACEWAYS SHALL BE DIRECT BURIED UNLESS OTHERWISE NOTED. SEE DETAIL B ON SHEET E-11.
 - DETAIL TYPICAL FOR HANDHOLES CALLED OUT ON THIS DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE A HANDHOLE AT EACH LIGHTING BOLLARD AS SHOWN ON E-11.
 - SEE E-10 AND E-11 FOR WORK WITHIN CABINET.

CONDUIT AND WIRE LEGEND	
(NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
1	4"C., 4#250KCMIL, 1#2G
2	4"C., SPARE
3	2"C., 6#8, 1#8G
4	2"C., SPARE
5	2"C., 6#6, 1#8G
6	4"C., 12#6, 16#8, 1#8G
7	2"C., 16#8, 1#8G

ELECTRICAL ENLARGED SITE LIGHTING I

PLAN



REV. NO.	DATE	DRWN	CHKD	REMARKS

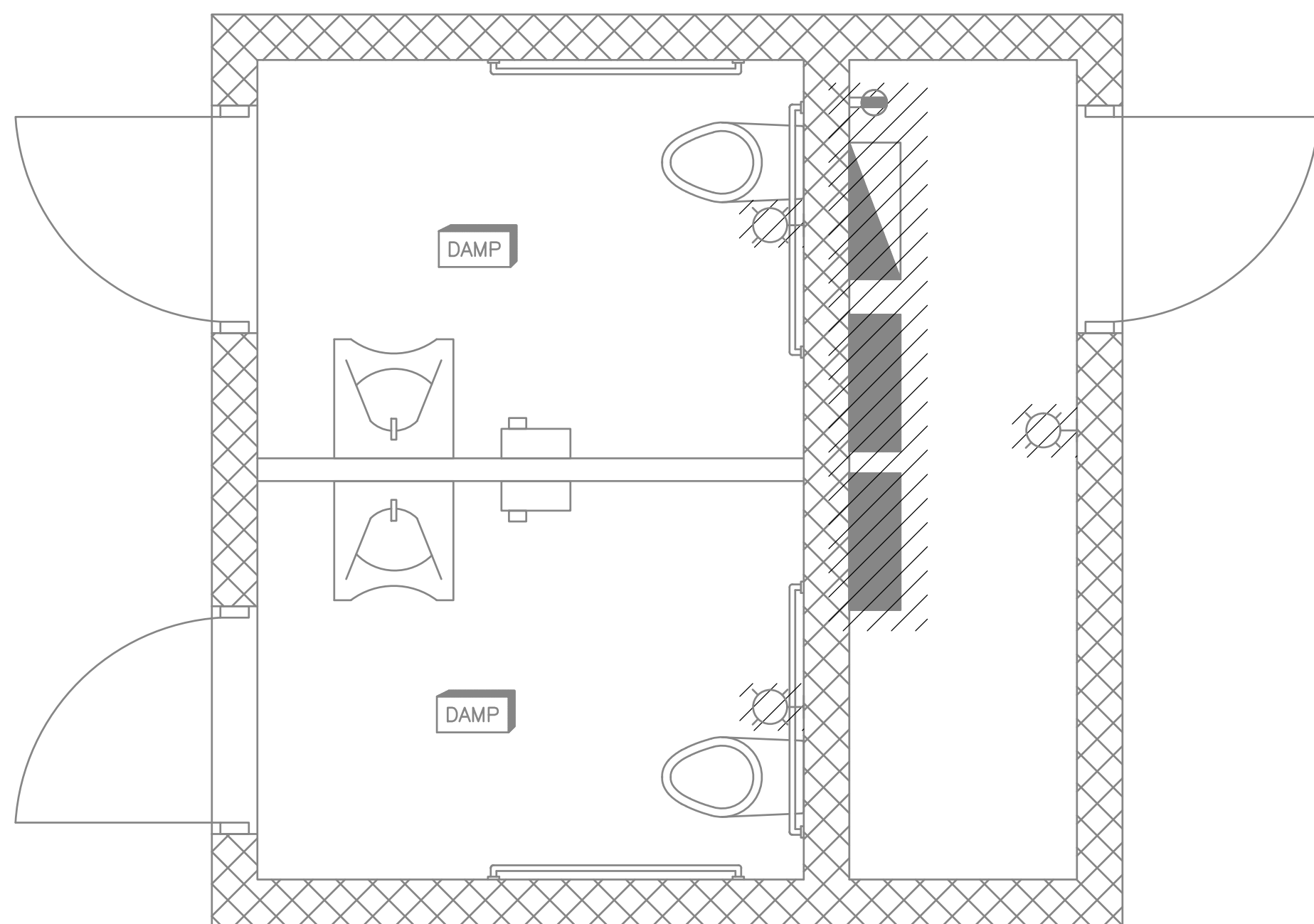
DESIGNED BY: Z. BARRETT
DRAWN BY: J. EGAN
SHEET CHK'D BY: N. HOLWAY
CROSS CHK'D BY: G. HOWARD
APPROVED BY: X
DATE: JANUARY 2022

CDM Smith
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

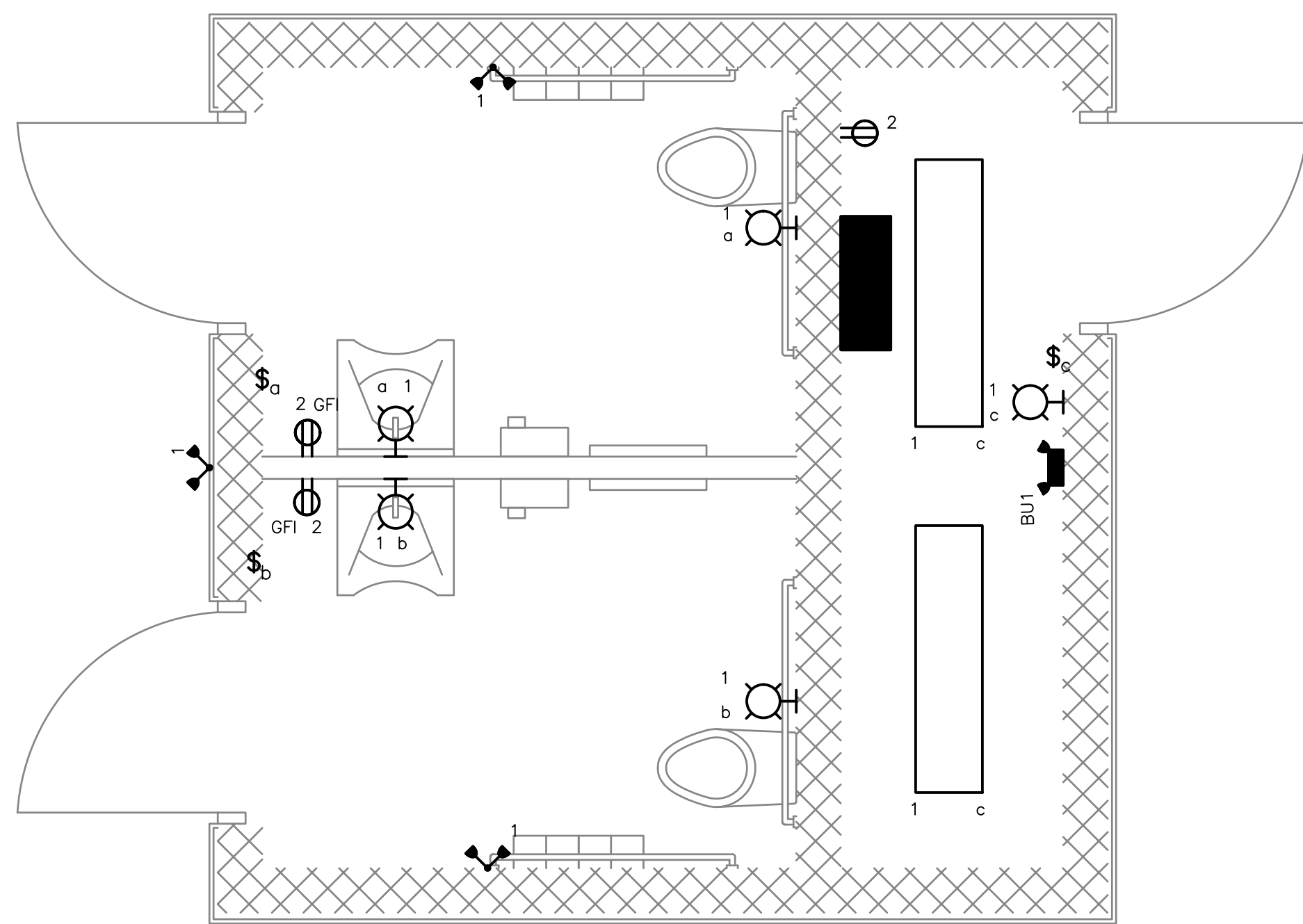
ELECTRICAL ENLARGED SITE
LIGHTING PLAN I

PROJECT NO. 56318-253750
FILE NAME: E007STLP.DWG
SHEET NO.
E-7



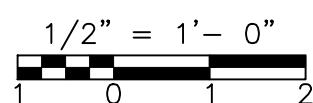
BATHROOM BUILDING ELECTRICAL DEMOLITION

PLAN

$$1/2'' = 1'-0''$$


ELECTRICAL BATHROOM BUILDING NEW WORK

PLAN

$$1/2'' = 1'-0''$$


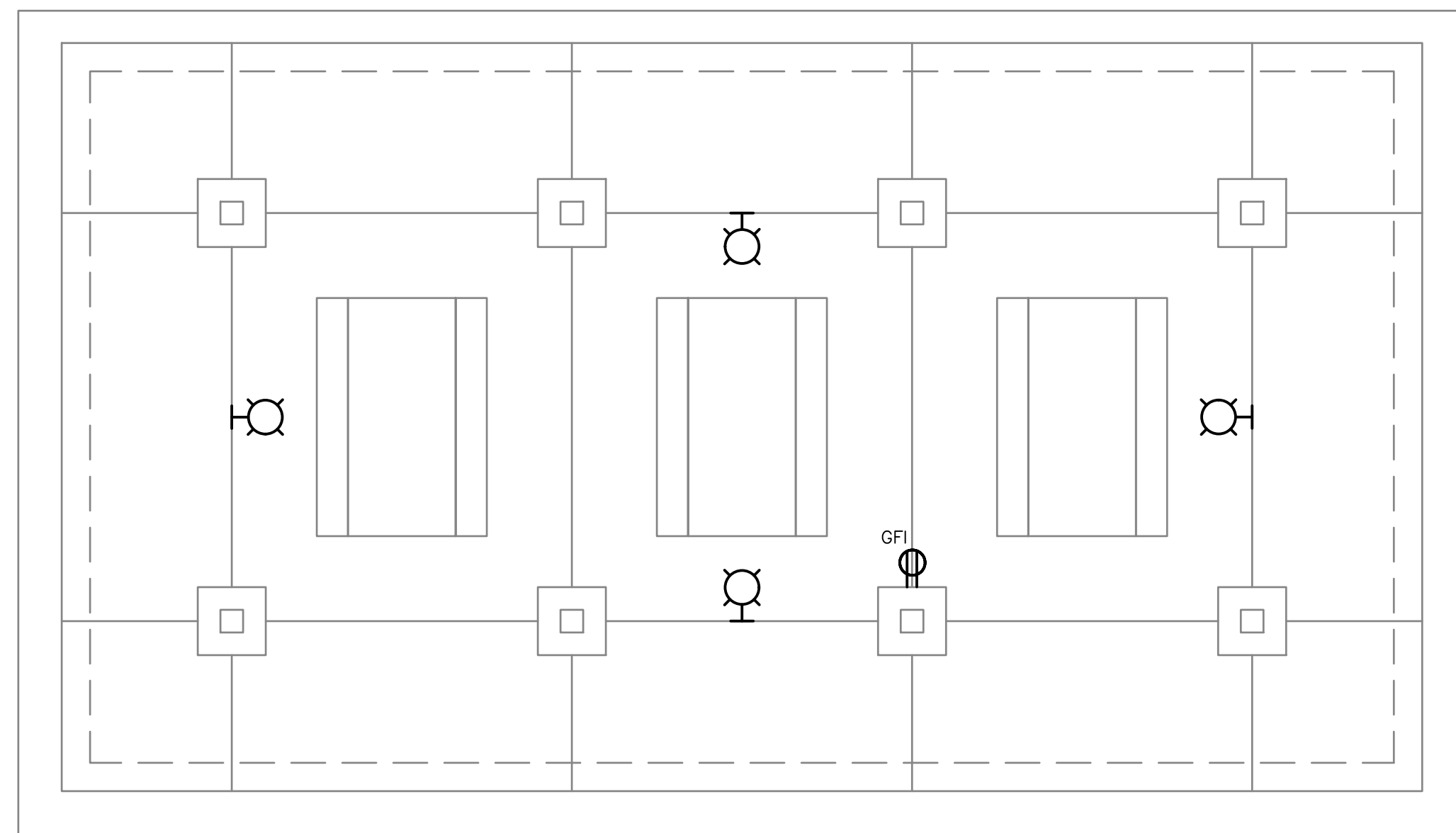
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: Z. BARRETT
DRAWN BY: J. EGAN
SHEET CHK'D BY: N. HOLWAY
CROSS CHK'D BY: G. HOWARD
APPROVED BY: X
DATE: DECEMBER 2021



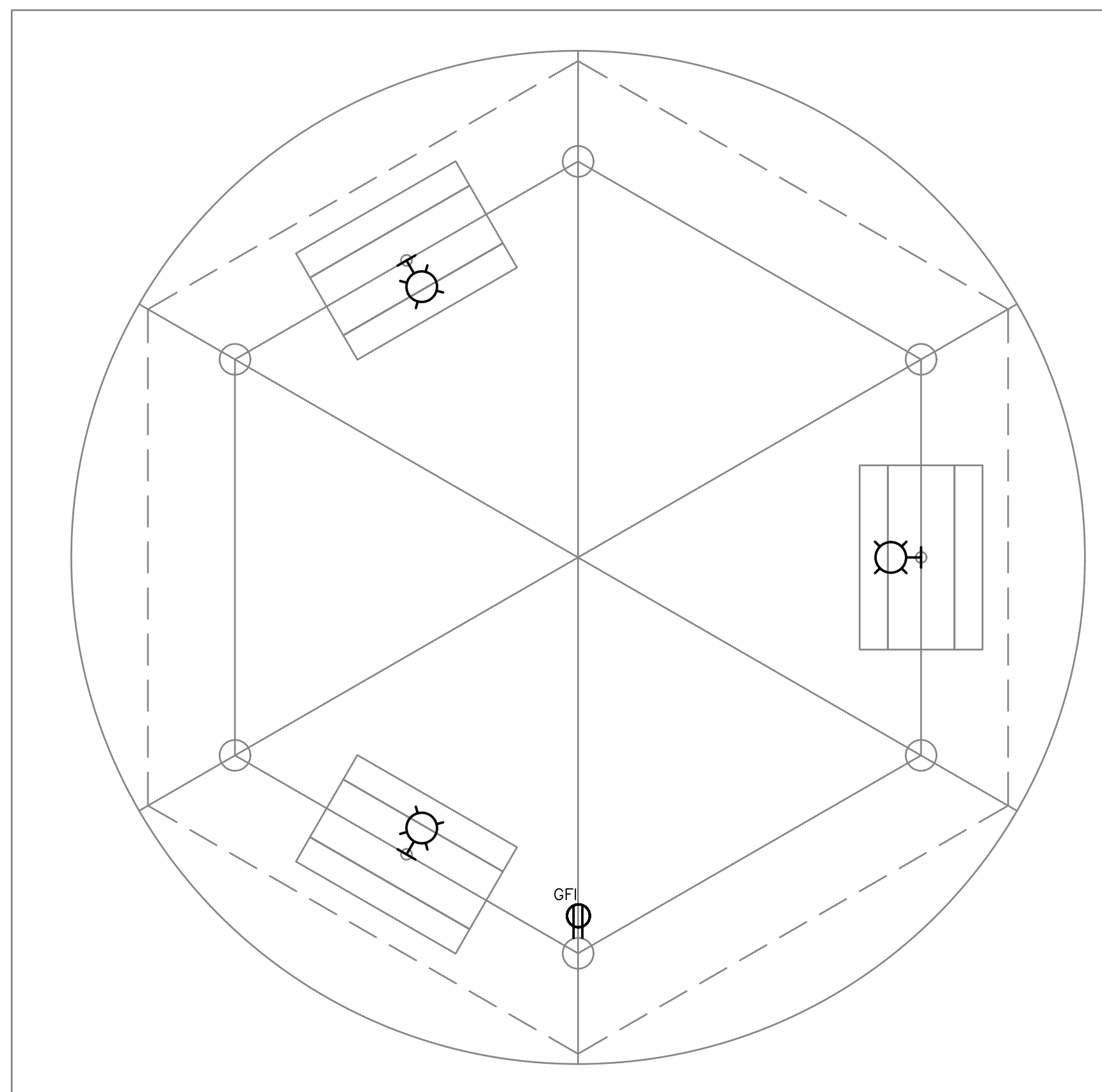
CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT PHASE B



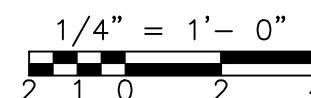
ELECTRICAL RECTANGULAR GAZEBO NEW WORK

PLAN

$$1/4'' = 1'-0''$$


ELECTRICAL HEXAGONAL GAZEBO NEW WORK

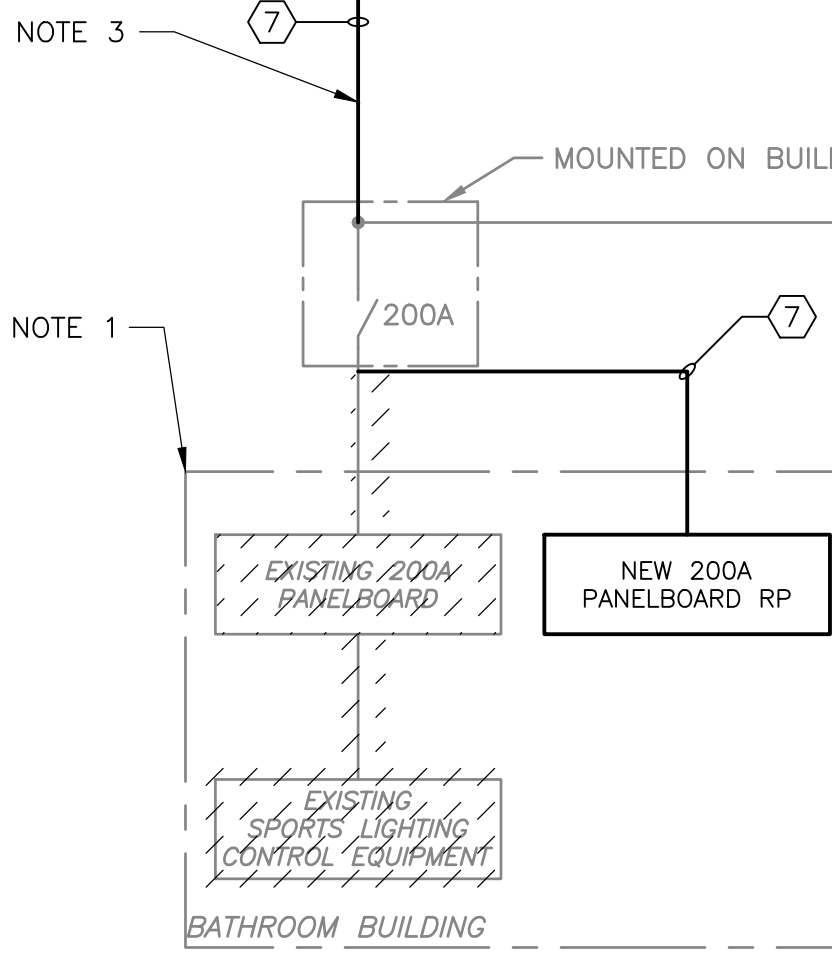
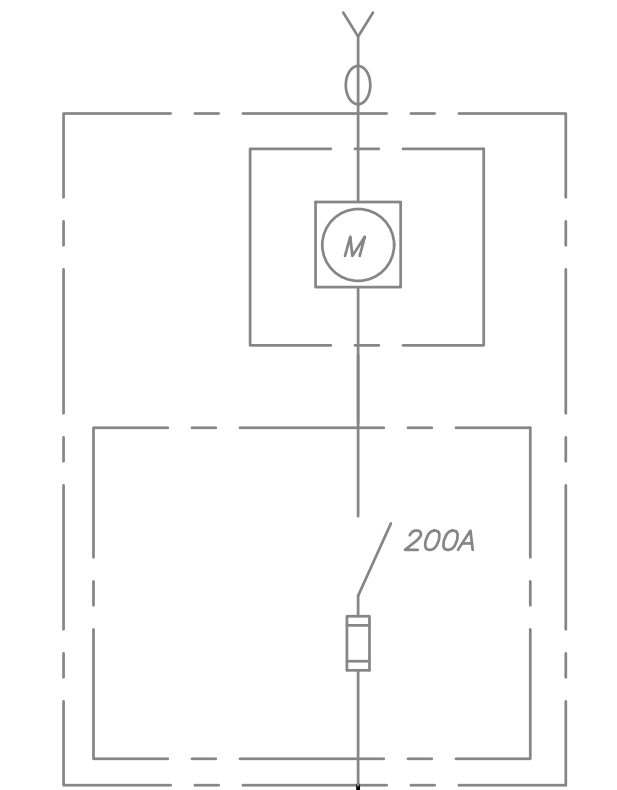
PLAN

$$1/4'' = 1'-0''$$


- NOTES:
1. THE RECEPTACLE IN THE HEXAGONAL GAZEBO SHALL BE MOUNTED AT 8'0" ON THE EXISTING COLUMN.
 2. THE RECEPTACLE IN THE RECTANGULAR GAZEBO SHALL BE MOUNTED AT 9'6" ON THE EXISTING COLUMN.

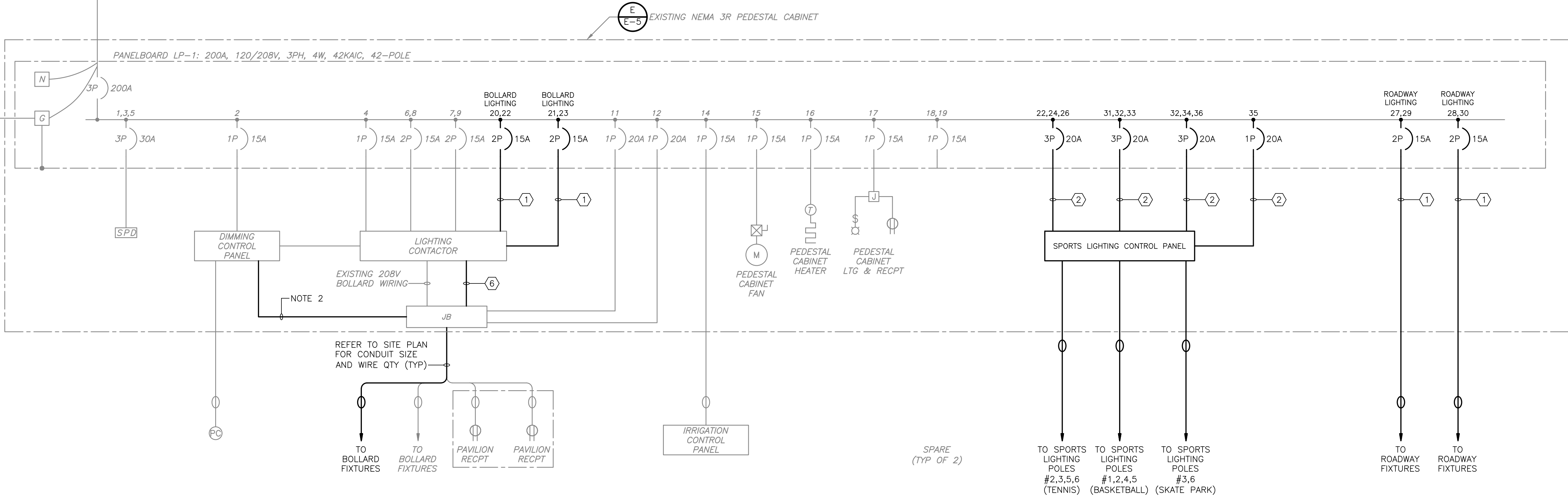
Images: [CDMS-2436] [Control Diag]
Last saved by: EGANJP Time: 1/5/2022 2:30:52 PM
pw\jensmith-cad2-pw.bentley.com:PW_PL1\56318\253750\04 CAD\E001ONFOL.dwg
© 2001 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.

120/208V, 3PH, 4W
EVERSOURCE ELECTRICAL SERVICE



CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)	
NO.	DESCRIPTION
①	3/4"C., 2#8, 1#8G
②	1-1/2"C., 2#4, 1#8G
③	2"C., 2#4, 1#4G
④	2"C., 2#6, 1#6G
⑤	2"C., 2#8, 1#8G
⑥	1-1/4"C., 4#8, 1#8G
⑦	4"C., 4#250KCMIL, 1#2G

LIGHTING FIXTURE SCHEDULE				
TYPE	VOLTAGE	DESCRIPTION	MANUFACTURER'S CATALOG NUMBER	REMARKS
A	120V 32W	BOLLARD LIGHTING SYMMETRIC DISTRIBUTION	LITHONIA RADEAN BOLLARD RAD8 LED-P5-SYM-MVOLT-DMG-FAO- 8TTDBLXD-BCFDBLXD-DBLXD	42" BLACK LED BOLLARD. 0-10V DIMMING, FIELD ADJUSTABLE OUTPUT, SYMMETRIC LIGHTING DISTRIBUTION, 3000K COLOR TEMP, INTERNATION DARK SKY ASSOCIATION (IDA) FIXTURE SEAL OF APPROVAL
B	120V 19W	BOLLARD LIGHTING ASYMMETRIC DISTRIBUTION	LITHONIA RADEAN BOLLARD RAD8 LED-P4-ASY-MVOLT-DMG-FAO- 8TTDBLXD-BCFDBLXD-DBLXD	42" BLACK LED BOLLARD. 0-10V DIMMING, FIELD ADJUSTABLE OUTPUT, ASYMMETRIC LIGHTING DISTRIBUTION, 3000K COLOR TEMP, INTERNATIONAL DARK SKY ASSOCIATION (IDA) FIXTURE SEAL OF APPROVAL. AIM ALL "B" BOLLARDS TOWARD
R2	208V 136W	TYPE 2 POLE MOUNTED ROADWAY LIGHTING	CREE RSLW A HT 2ME 14L 30K7 UL N	PROVIDE BLACK SQUARE ALUMINUM 20' POLE. MOUNT FIXTURE AT 20' ABOVE GRADE. 3000K COLOR TEMP. IDA FIXTURE SEAL OF APPROVAL. PROVIDE PHOTOCCELL
R3	208V 136W	TYPE 3 POLE MOUNTED ROADWAY LIGHTING	CREE RSLW A HT 3ME 14L 30K7 UL N	PROVIDE BLACK SQUARE ALUMINUM 20' POLE. MOUNT FIXTURE AT 20' ABOVE GRADE. 3000K COLOR TEMP. IDA FIXTURE SEAL OF APPROVAL. PROVIDE PHOTOCCELL
T1,T1,T3,T 4,BA1,BA2	208V	SPORTS LIGHTING	REFER TO SPECIFICATIONS	REFER TO SPECIFICATIONS.



ONE LINE DIAGRAM
N.T.S.

- NOTES:
- CONTRACTOR SHALL MAKE SAFE, DISCONNECT, AND DEMOLISH ALL EXISTING SPORTS LIGHTING, CONTROL EQUIPMENT, INCLUDING RELATED CONDUIT AND WIRE, DISCONNECT SWITCHES, AND OVERCURRENT PROTECTIVE DEVICES SERVING THE EQUIPMENT.
 - CONNECT EXISTING SPARE 4#8 CONDUCTORS TO THE DIMMING CONTROL PANEL FOR 0-10V DIMMING CONTROL OF THE ADDITIONAL BOLLARD LIGHTING CIRCUITS BEING PROVIDED UNDER THIS CONTRACT.
 - DEMOLISH EXISTING 4"C., 4#250KCMIL, 1#2(G) AND REPLACE AS SHOWN.

REV.	NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. HILL
DRAWN BY: D. HILL
SHEET CHK'D BY: Z. BARRETT
CROSS CHK'D BY: G. HOWARD
APPROVED BY: X
DATE: DECEMBER 2021

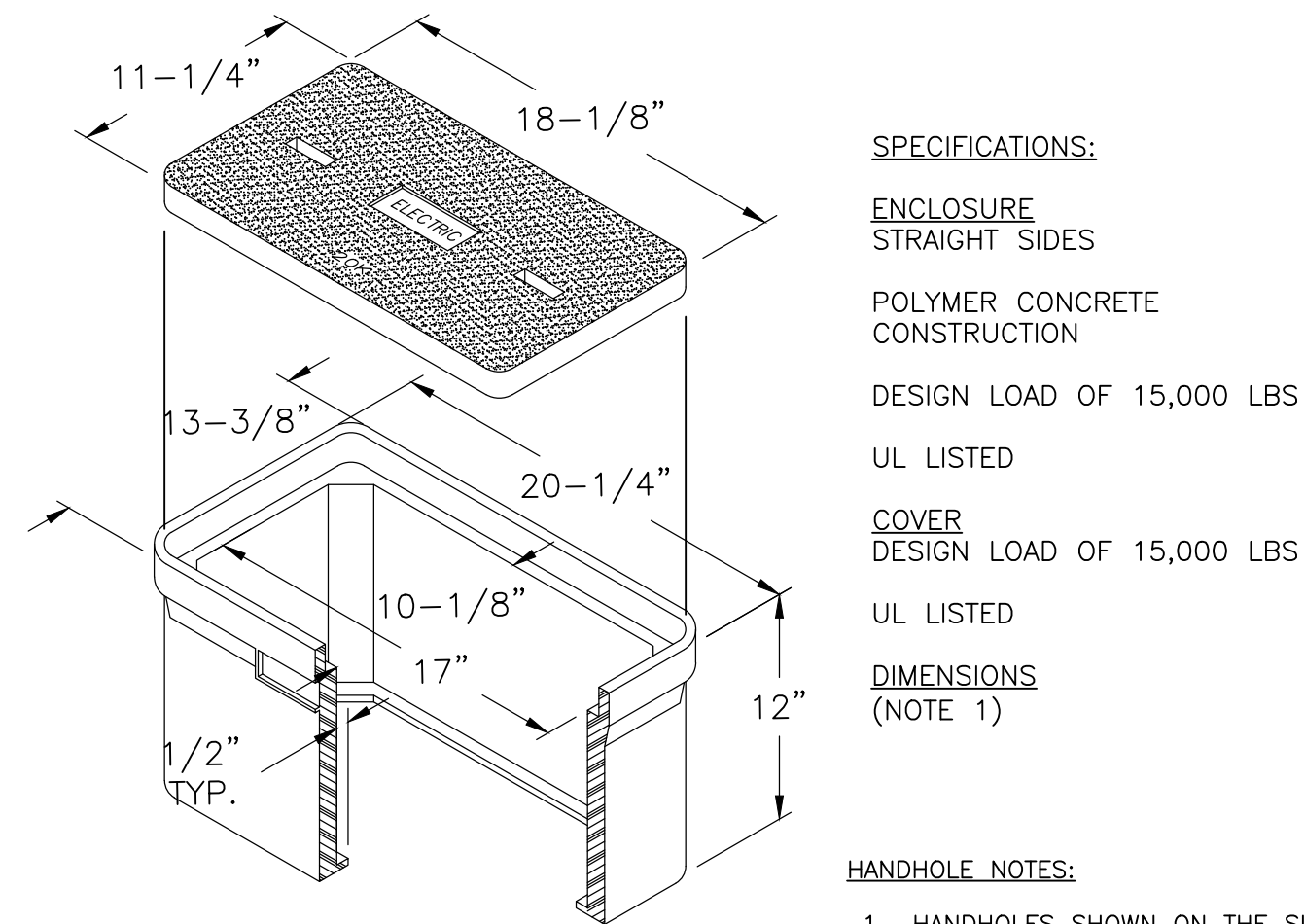
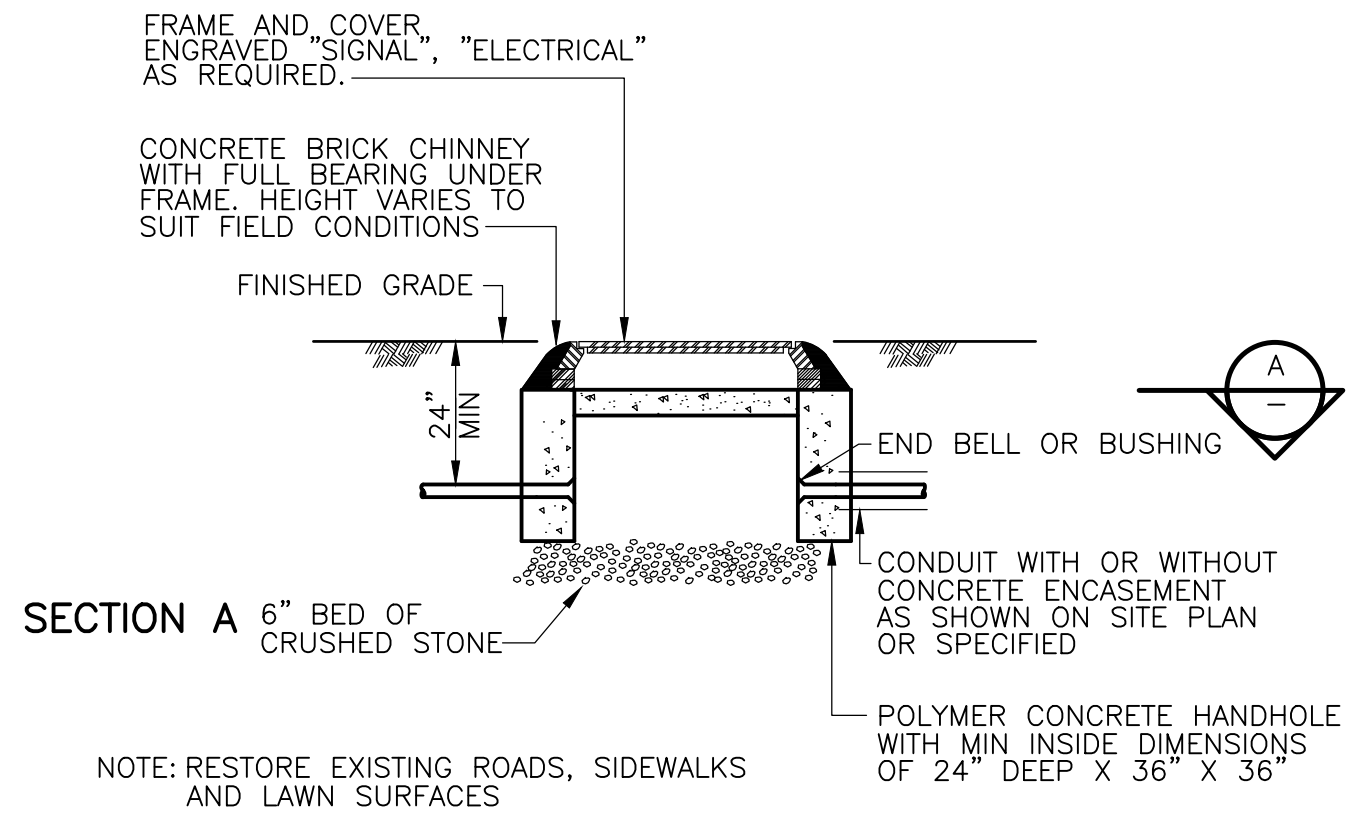
**CDM
Smith**
75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS
ARSENAL PARK IMPROVEMENTS PROJECT
PHASE B

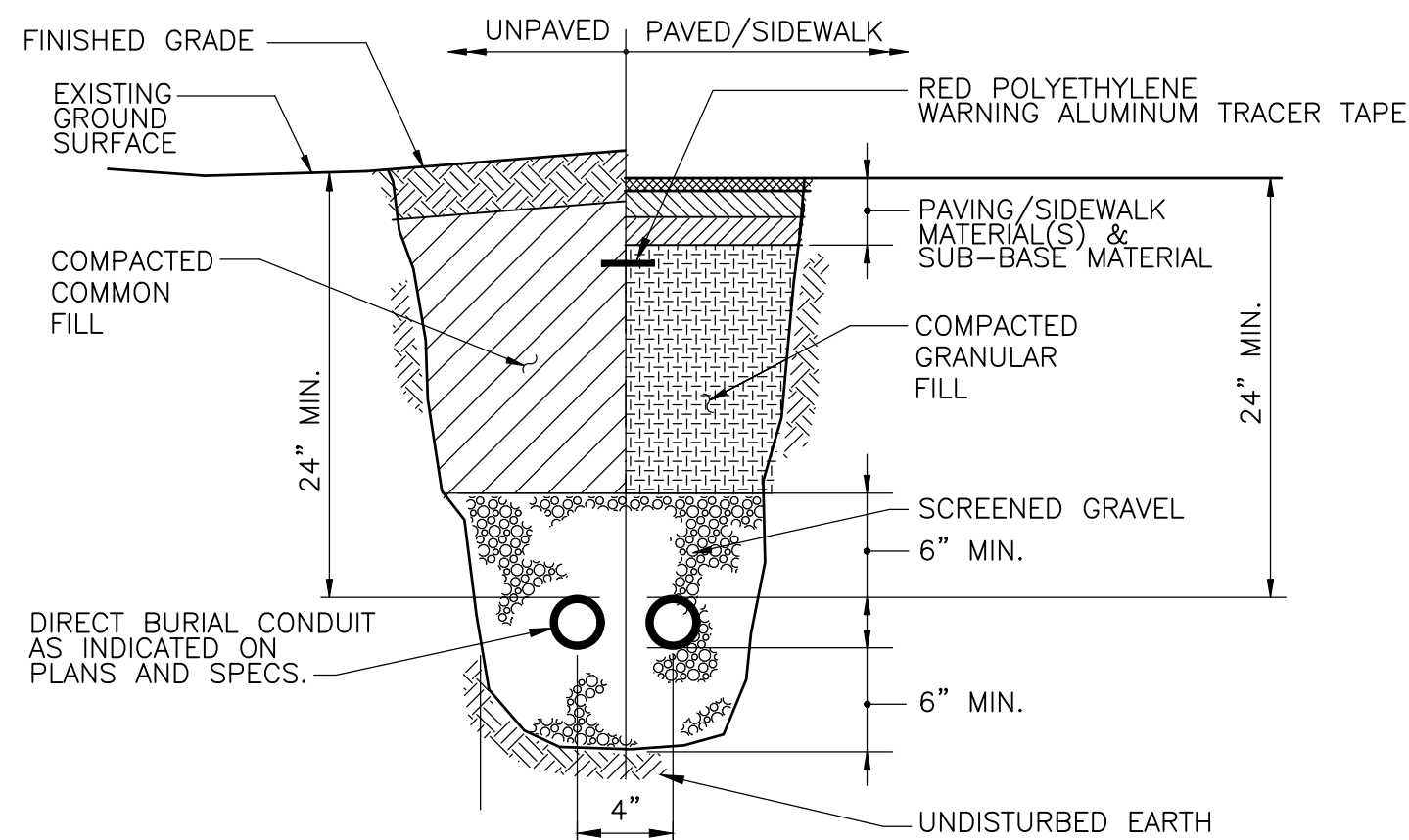
ELECTRICAL
ONE LINE DIAGRAM
MODIFICATIONS

PROJECT NO. 56318-253750 FILE NAME: E010NFOL.DWG
SHEET NO. E-10

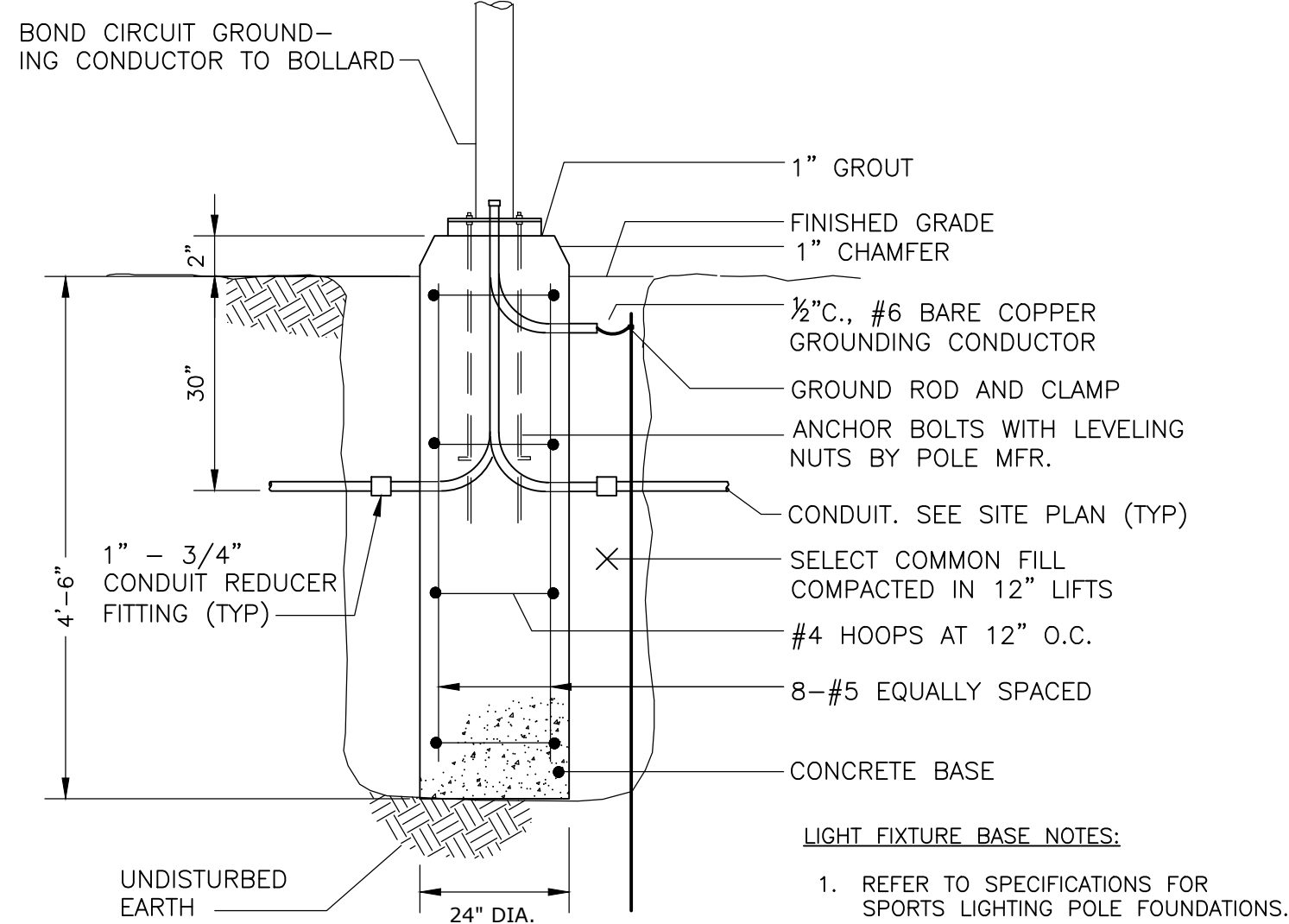
XREFs: [CDMS-2436] Detail[Border] Images: []
Last saved by: EGANJP Time: 12/27/2021 2:30:44:49PM
pw:\cdmsmith-cad2-pw.bentley.com\pw_pl1\56318\253750\04 Design Services NM_60%\09 Electrical\10 CAD\E011SDDT.dwg
© 2021 CDM SMITH ALL RIGHTS RESERVED. THESE DOCUMENTS AND DESIGNS PROVIDED BY PROFESSIONAL SERVICE, INCORPORATED HEREIN, ARE THE PROPERTY OF CDM SMITH AND ARE NOT TO BE USED, IN WHOLE OR PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CDM SMITH.



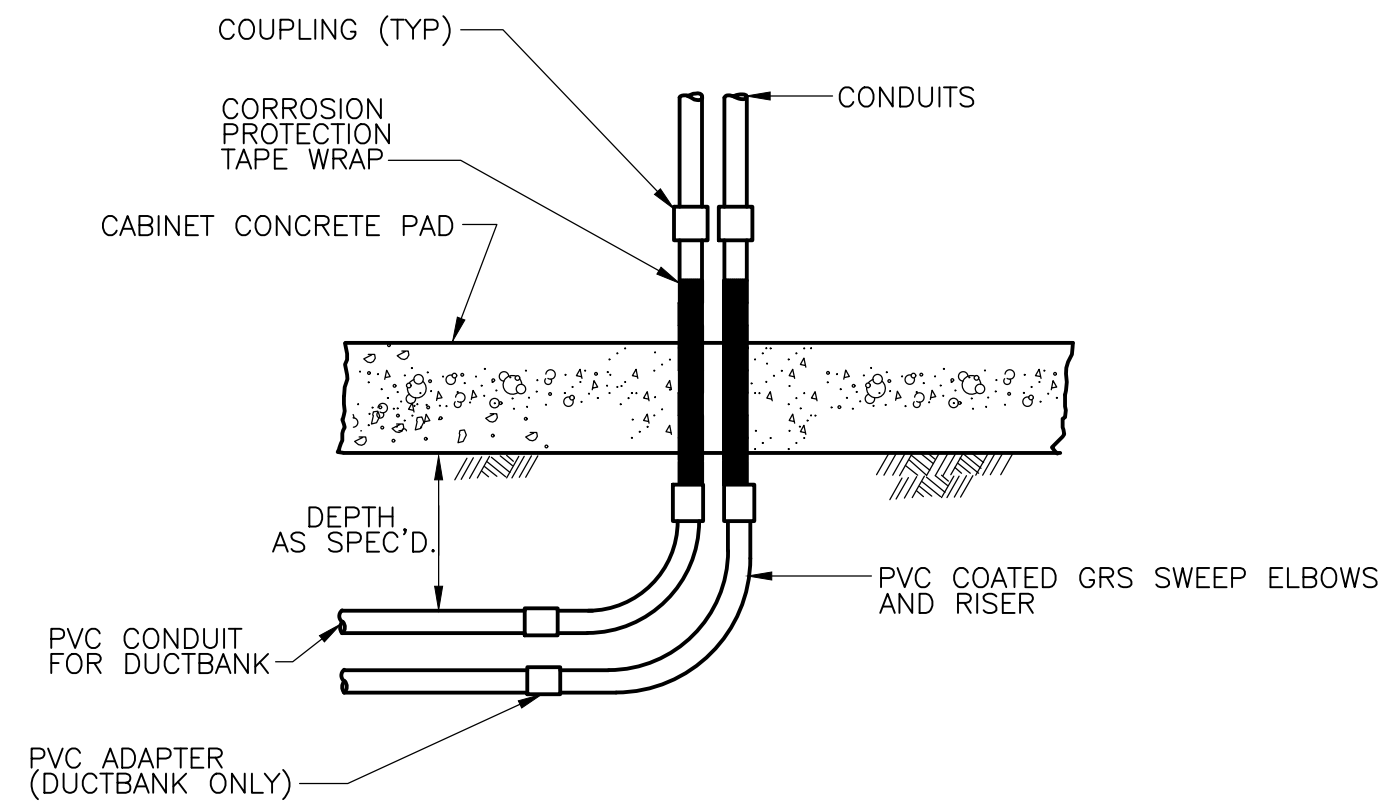
ELECTRICAL HANDHOLE
DETAIL A



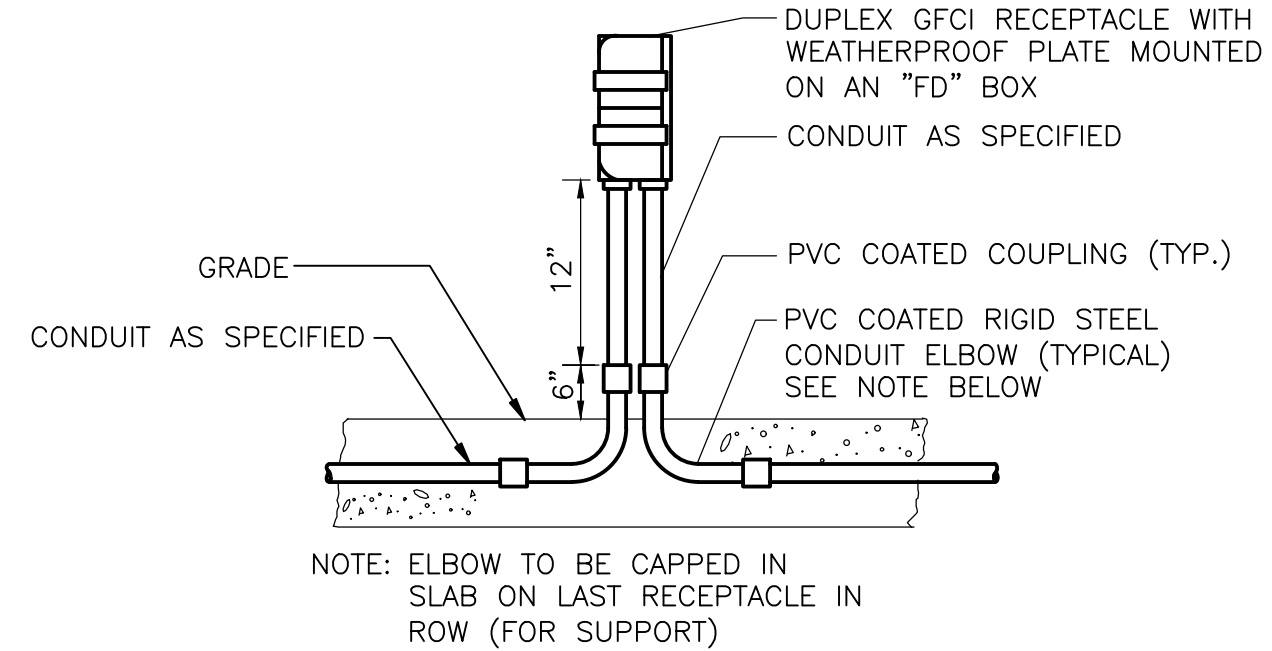
TYPICAL DIRECT BURIAL CONDUIT INSTALLATION
DETAIL B



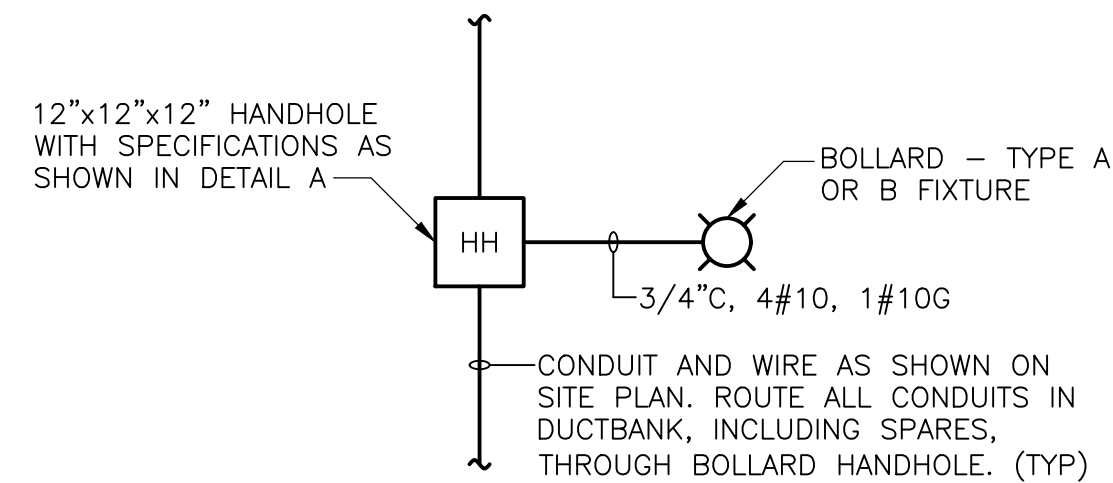
LIGHT FIXTURE BASE
DETAIL C



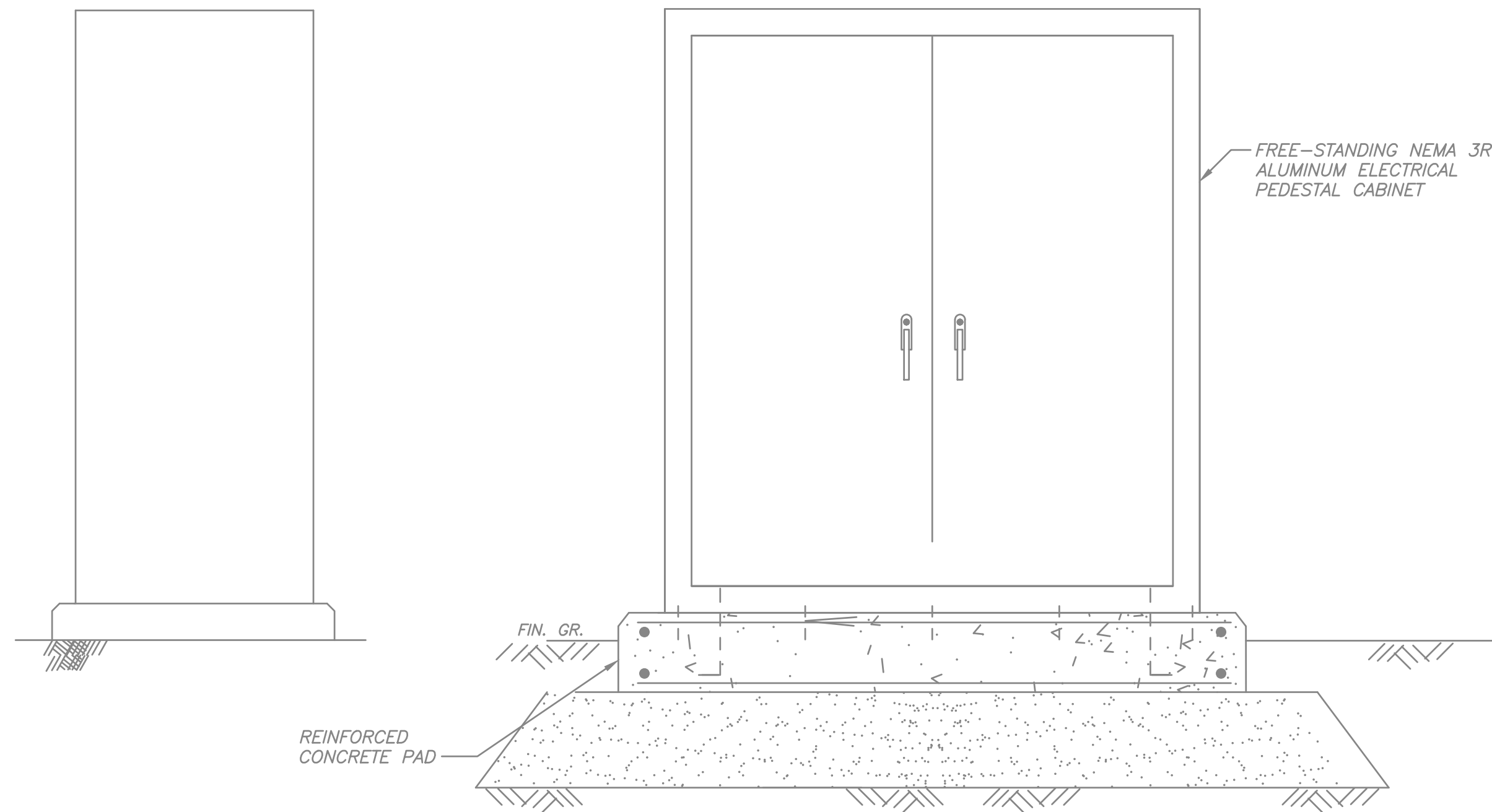
PEDESTAL CABINET CONDUIT CONCRETE PENETRATION
DETAIL F



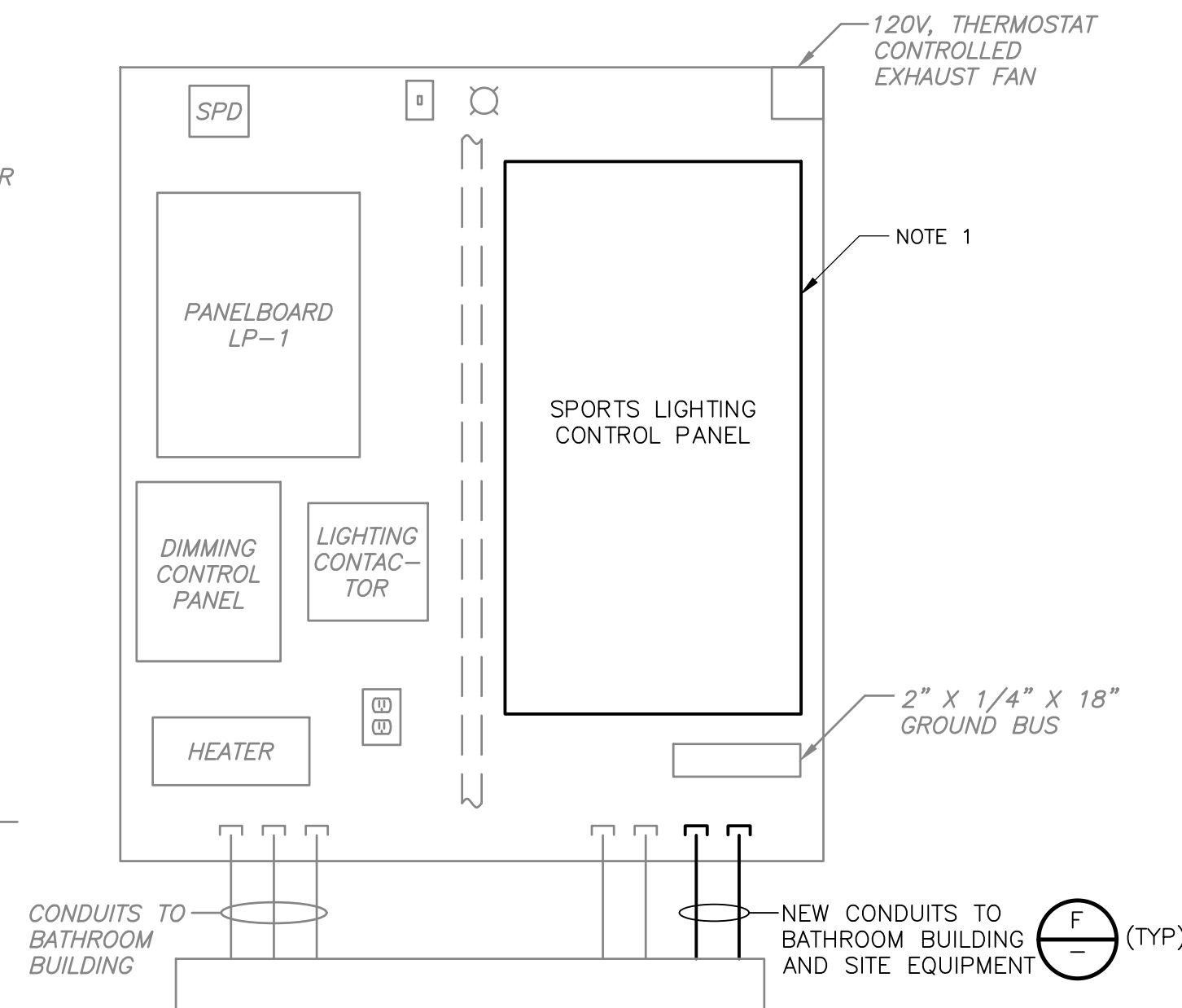
OUTDOOR RECEPTACLE
DETAIL D



BOLLARD HANDHOLE
BLOCK DIAGRAM

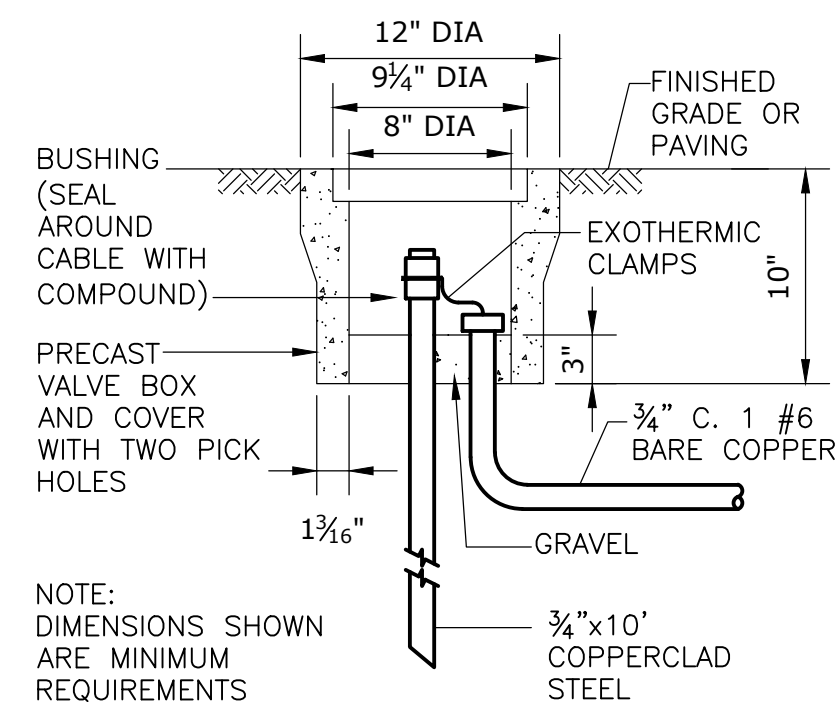


ELECTRICAL PEDESTAL CABINET
DETAIL E



NOTES:

1. DETAIL DOES NOT SHOW ALL NEW REQUIRED CONDUIT WITHIN PEDESTAL CABINET. REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS.
2. REFER TO SPECIFICATIONS FOR SPORTS LIGHTING CONTROL PANEL REQUIREMENTS.



GROUND ROD
DETAIL G

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY:	Z. BARRETT
DRAWN BY:	J. EGAN
SHEET CHK'D BY:	N. HOLWAY
CROSS CHK'D BY:	G. HOWARD
APPROVED BY:	X
DATE:	DECEMBER 2021

CDM Smith

75 State Street
Boston, MA 02109
Tel: (617) 452-6000

CITY OF WATERTOWN, MASSACHUSETTS

ARSENAL PARK IMPROVEMENTS PROJECT

PHASE B

ELECTRICAL DETAILS

PROJECT NO: 56318-253750
FILE NAME: E011SDDT.DWG

SHEET NO.
E-11