



SEVER STREET PARK

WORCESTER, MASSACHUSETTS

BID DOCUMENTS

06-30-23

PREPARED FOR:

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LOCATION MAP
69 SEVER ST
WORCESTER, MA 01603

DRAWING INDEX

L-0.0	COVER SHEET
L-1.0	NOTES, LEGENDS AND ABBREVIATIONS
EX-1.0	EXISTING CONDITIONS PLAN
L-3.0	SITE PREPARATION PLAN
L-4.0	MATERIALS PLAN
L-5.0	LAYOUT PLAN
L-6.0	GRADING PLAN
L-7.0	PLANTING PLAN, PLANT LIST AND PLANTING DETAILS
L-8.0	SITE DETAILS
L-9.0	SITE DETAILS
L-10.0	SITE DETAILS
C-100	NOTES, LEGENDS, & ABBREVIATIONS
C-200	EROSION & SEDIMENTATION CONTROL PLAN
C-300	DEMOLITION PLAN
C-400	UTILITY PLAN
C-500	EROSION AND SEDIMENTATION CONTROL DETAILS
C-501	CIVIL DETAILS
E-0.1	ELECTRICAL LEGEND
E-1.1	ELECTRICAL SITE PLAN
E-2.1	ELECTRICAL SITE DETAILS



Sheet No.:
L-0.0

COVER SHEET

Sheet Name:

Contract No.	Date	Scale	Drawn	Checked	RD
	06.30.2023	N/A			

**SEVER STREET PARK
WORCESTER, MA**

Project Name:

LIST OF ABBREVIATIONS @ AT & AND △ ANGLE ⌒10' ARC LENGTH APPROX APPROXIMATE B&B BALLED AND BURLAPPED B.C. BOTTOM OF CURB BLDG. BUILDING BF BOTTOM OF FENCE B.O.F. BOTTOM OF FOOTING BW BOTTOM OF WALL B/S BOTH SIDES BS BOTTOM OF STEP B/W BOTH WAYS BIT. CONC. BITUMINOUS CONCRETE CAL. CALIPER C.I.P. CAST IN PLACE CB CATCH BASIN Ⓢ CENTERLINE CLF CHAIN LINK FENCE CIR. CIRCLE CLR. CLEAR CNTL. CONTROL COMP. COMPACTED CONC. CONCRETE CONT. CONTINUOUS CW COLD WATER Ø DIA. DIAMETER DIM. DIMENSION DIMEN. DIMENSION E.F. EACH FACE EJ EXPANSION JOINT EA. EACH EL ELEVATION ELEC. ELECTRICAL LINE ELEV. ELEVATION EQ. EQUAL EX EXISTING FDN. FOUNDATION FG FINISH GRADE FIN. GR. FINISH GRADE FTG. FOOTING FTN. FOUNTAIN H.D. GALV. HOT DIP GALVANIZED H/H HANDHOLE HP HIGH POINT HORIZ. HORIZONTAL HR HANDRAIL HT. HEIGHT I.D. INSIDE DIAMETER INV. INVERT ELEVATION JT. JOINT L LENGTH L.P. LIGHT POLE LOW APPROXIMATE LIMIT OF WORK LP LOW POINT MAX. MAXIMUM MEG MEET EX. GRADE MH MANHOLE MIN MINIMUM NIC NOT IN CONTRACT NO. NUMBER NTS NOT TO SCALE O.C. ON CENTER O.D. OUTSIDE DIAMETER OWH OVERHEAD WIRES OPP. OPPOSITE % PERCENT PC POINT OF CURVATURE PERF. PERFORATED PLTG. PLANTING P.O.B. POINT OF BEGINNING PVG. PAVING PVMT. PAVEMENT R RADIUS RP RADIUS POINT REINF. REINFORCEMENT REQ. REQUIRED SC SAWCUT SIM. SIMILAR SPRD. SPREAD S.S. STAINLESS STEEL T TANGENT TC TOP OF CURB TH THRESHOLD T.O.B. TOP OF BENCH TF TOP OF FENCE T.O.F. TOP OF FOOTING TS TOP OF STEP TW TOP OF WALL TYP. TYPICAL UP UTILITY POLE VERT. VERTICAL V. VERIFY W WATER LINE W/ WITH W/G WATER GATE

DRAWING LEGENDS

SITE PREPARATION

LOW

.....

APPROXIMATE LIMIT OF WORK

—□—□—□—

CONSTRUCTION FENCE

SAWCUT EX. PAVEMENT

PROTECT EX. BIT. CONC. PAVEMENT

REMOVE EX. BIT. CONC. PAVEMENT

REMOVE EX. CONC. PAVING OR BRICK PAVERS

REMOVE EX. LAWN

REMOVE EX. STONEDUST PATH

REMOVE EX. BRICK EDGE

REMOVE EX. CHAIN LINK FENCE OR METAL FENCE

TREE PROTECTION FENCING

REMOVE EX. TREE

EX.TREE TO REMAIN

REMOVE EX. PERENNIALS AND GRASSES

LAYOUT & MATERIALS

NEW CONCRETE PAVING

NEW POROUS BIT. CONC. PAVING

NEW BIT. CONC. PAVING

NEW PERMEABLE UNIT PAVERS

NEW STONE WALL

NEW CHAIN LINK FENCE

NEW PEDESTRIAN GATE

NEW TRASH OR RECYCLING RECEPTACLE

NEW BENCH

NEW PEDESTRIAN LIGHT POLE
W/ SECURITY CAMERA

NEW CONC. SCULPTURE BASE W/ UPLIGHTS

NEW ELECTRIC HANDHOLE

NEW COMMUNICATIONS HANDHOLE

LAWNS AND PLANTING

NEW DECIDUOUS TREE

NEW EVERGREEN TREE

NEW SHRUBS

NEW PERENNIALS OR GRASSES

NEW LAWN

GRADING

EXISTING CONTOUR

NEW SPOT GRADE

NEW CONTOUR

EX. SPOT GRADE

DIRECTION AND PERCENT SLOPE

GENERAL NOTES

1. CONTRACTOR SHALL BECOME FAMILIAR WITH DRAWINGS AND SPECIFICATIONS BEFORE BIDDING.

2. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES.

3. CONTRACTOR SHALL SECURE ALL PERMITS THAT MAY BE REQUIRED FROM ALL JURISDICTIONS AFFECTED BY THIS WORK.

4. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE "DIG SAFE" NOTIFICATION PROCEDURES PROMOTED BY RESPECTIVE UTILITY COMPANIES. THE DIG SAFE TELEPHONE NUMBER FOR MASSACHUSETTS IS 811.

5. STORAGE AREAS FOR CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE IN AND WITHIN THE MATERIALS AND STORAGE AREA AS SHOWN ON PLANS AND AS APPROVED BY THE OWNER'S REPRESENTATIVE.

6. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED TO PREVENT TRACKING OF MUD ONTO PUBLIC WAYS. ANY MUD ON PUBLIC WAYS ORIGINATING FROM THE JOB SITE SHALL BE CLEANED BY THE CONTRACTOR.

7. CONTRACTOR'S EQUIPMENT AND VEHICLES SHALL BE PARKED ON PAVED SURFACES ONLY. NO PARKING ON TURF OR SAND AREAS.

8. CONTRACTOR CAN REQUEST TO UTILIZE ADDITIONAL STAGING AREAS WITHIN THE LIMIT OF WORK. ALL STAGING AREAS, AS SHOWN ON THE PLANS OR ADDITIONAL AREAS REQUESTED BY THE CONTRACTOR, SHALL PROVIDE PROTECTION OF THE GROUND PER THE SPECIFICATIONS. NO ADDITIONAL COST SHALL BE REQUESTED FOR ADDITIONAL STAGING AREAS WITHIN THE LIMIT OF WORK.

9. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.

10. APPROXIMATE LIMIT OF WORK IS SHOWN ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREA OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE WORK SITE TO BE SECURE DURING CONSTRUCTION.

LAYOUT AND MATERIALS NOTES:

1. ALL NEW SITE IMPROVEMENTS SHALL BE LAID OUT BY A REGISTERED CIVIL ENGINEER OR SURVEYOR ENGAGED BY THE CONTRACTOR.

2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.

3. ALL LAYOUTS FOR WALKS AND PATHS SHALL BE ADEQUATELY STAKED BY THE CONTRACTOR AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

4. THE CONTRACTOR SHALL ESTABLISH PERMANENT CONSTRUCTION BENCHMARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCHMARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.

5. ALL SITE AMENITIES, PAVEMENT MARKINGS, AND SIGNS TO BE FIELD LOCATED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

GRADING NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND SHALL REPORT ANY DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITIONS TO THE OWNER'S REPRESENTATIVE.

2. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.

3. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDINGS AT ALL TOP AND BOTTOM OF SLOPES.

4. EXCAVATION REQUIRED WITHIN DRIP LINE OF TREES DESIGNATED TO REMAIN SHALL BE DONE BY HAND. PLANT MATERIALS DAMAGED BY CONTRACTOR SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.

5. MAXIMUM CROSS PITCH OF ALL SIDEWALKS IS 2%. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.

6. ALL GRADING SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD AND THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR BUILDINGS AND FACILITIES, LATEST EDITIONS. IN CASE OF CONFLICT BETWEEN REGULATIONS, THE GUIDELINE PROVIDING GREATER ACCESS SHALL APPLY.

7. CONTRACTOR SHALL MAINTAIN OR ADJUST TO PROPOSED FINISH GRADE AS NECESSARY. ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POSTS, MANHOLES, CATCH BASINS, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON UTILITY DRAWINGS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

8. MAINTAIN AND PROTECT THE INTEGRITY OF THE EXISTING DRAINAGE SYSTEM AT ALL TIMES, UNLESS OTHERWISE NOTED ON DRAWINGS.

9. ANY IDENTIFIED DEPRESSION SHALL BE FILLED WITH LOAM, SUFFICIENT TO ENSURE THAT SOIL IS LEVEL WITH SURROUNDING GRADE AFTER SETTLEMENT.

LAWN AND PLANTING NOTES:

1. PROVIDE 6" DEPTH OF NEW OR EXISTING TOPSOIL AT ALL LAWN AREAS.

2. SEED ALL DISTURBED AREAS THAT ARE NOT OTHERWISE SHOWN AS HARDSCAPE OR PLANT BEDS.

3. IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE PLANT SCHEDULE, THE PLANTING PLAN SHALL GOVERN.

4. ALL NEW PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.

5. ALL NEW PLANTS TO BE BALLED AND BURLAPPED OR CONTAINER-GROWN, UNLESS OTHERWISE NOTED ON THE PLANT SCHEDULE.

6. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.

7. ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE. ALL SUBSTITUTIONS SHALL REQUIRE WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE.

8. ALL NEW PLANTS SHALL BE TAGGED AND APPROVED BY THE OWNER'S REPRESENTATIVE AT THE NURSERY PRIOR TO DIGGING OR DELIVERY TO THE SITE.

9. CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITY LINES PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS TO THE OWNERS REPRESENTATIVE.

10. CONTRACTOR SHALL STAKE LOCATION OF ALL PROPOSED PLANTING FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF PLANTING.

11. NEW TREES SHALL BE SET 3" HIGHER THAN PREVIOUS GRADE. NO TREE, SHALL BE PLANTED BEFORE ACCEPTANCE OF ROUGH GRADING.

12. CONTRACTOR SHALL PROVIDE FULL DEPTHS OF LOAM AS NOTED ON DETAILS AND AS SPECIFIED, FOR ALL PLANTING.

13. IN AREAS WHERE EXISTING PAVEMENTS ARE REMOVED AND ARE PROPOSED AS TURF, THE CONTRACTOR SHALL REMOVE THE PAVEMENT AND BASE, PROVIDE FILL AND 6" TOPSOIL PRIOR TO SEEDING.

14. CONTRACTOR SHALL PROVIDE PRUNING BY CERTIFIED ARBORIST. PRUNING SHALL BE REVIEWED WITH OWNER'S REPRESENTATIVE PRIOR TO WORK.

ALTERNATES:

1. NEW SODDED LAWN IN LIEU OF SEEDED LAWN

Worcester

A TOWN JUNE 14, 1722 A CITY FEBY. 29, 1841

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rdla

06.30.23

BID DOCUMENTS

DATE

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SEVER STREET PARK

WORCESTER, MA

PROJECT

NOTES, LEGENDS AND ABBREVIATIONS

DRAWING TITLE

CONTRACT NO.

DATE06.30.23

DRAWNSD

CKDRD

SCALEAS SHOWN

SHEET NO.

L-1.0

UTILITY INFORMATION STATEMENT

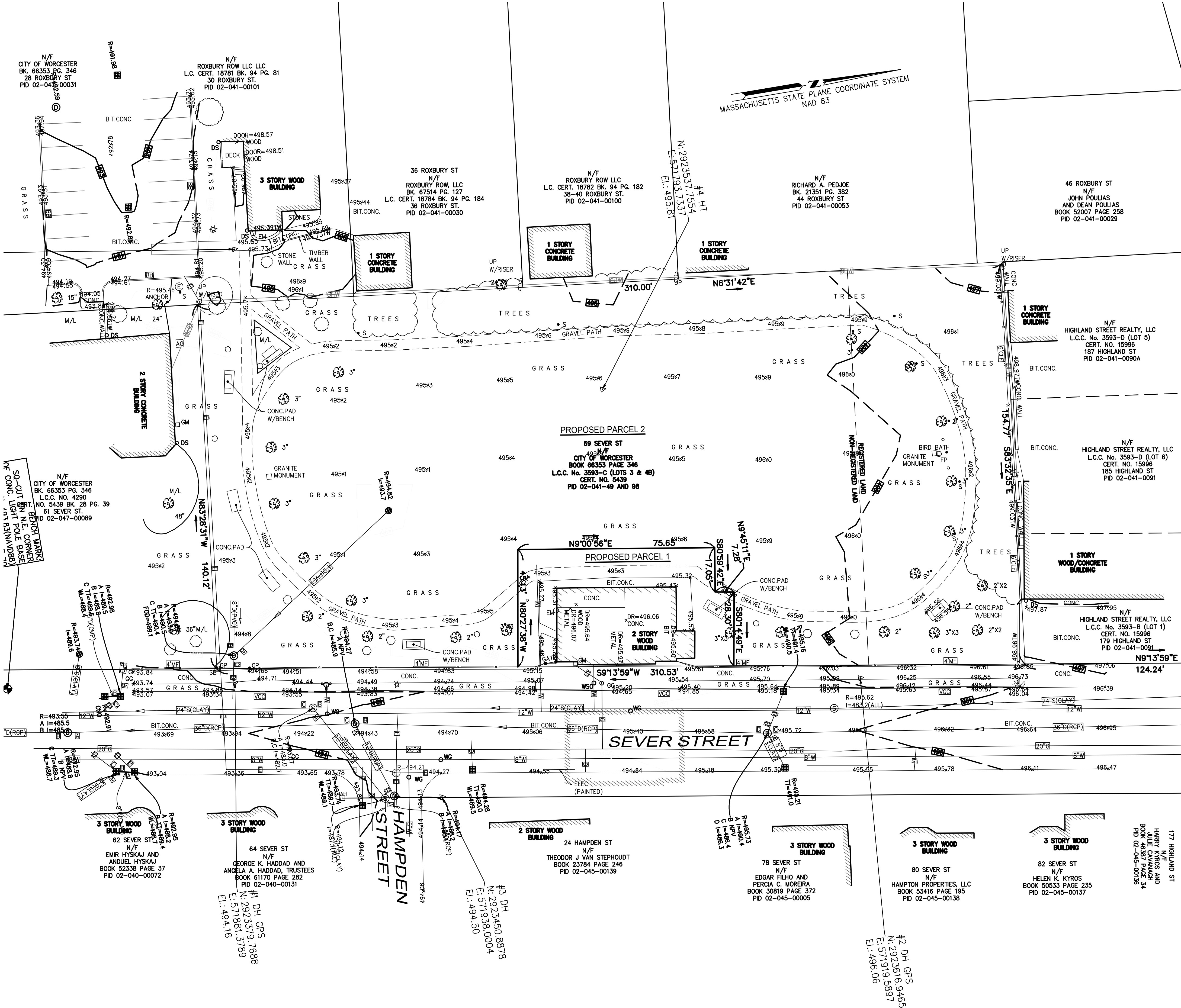
1. THE SUB-SURFACE UTILITY INFORMATION SHOWN HEREON IS COMPILED BASED ON FIELD SURVEY INFORMATION, RECORD INFORMATION AS SUPPLIED BY THE APPROPRIATE UTILITY COMPANIES, AND PLAN INFORMATION SUPPLIED BY THE CLIENT, IF ANY; THEREFORE WE CANNOT GUARANTEE THE ACCURACY OF SAID COMPILED SUB-SURFACE INFORMATION TO ANY CERTAIN DEGREE OF STATED TOLERANCE. ONLY PHYSICALLY LOCATED SUB-SURFACE UTILITY FEATURES FALL WITHIN NORMAL STANDARD OF CARE ACCURACIES.
2. THE LOCATIONS OF UNDERGROUND PIPES, CONDUITS, AND STRUCTURES HAVE BEEN DETERMINED FROM SAID INFORMATION, AND ARE APPROXIMATE ONLY. COMPILED LOCATIONS OF ANY UNDERGROUND STRUCTURES, NOT VISIBLY OBSERVED AND LOCATED, CAN VARY FROM THEIR ACTUAL LOCATIONS.
3. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED.
4. THE STATUS OF UTILITIES, WHETHER ACTIVE, ABANDONED, OR REMOVED, IS AN UNKNOWN CONDITION AS FAR AS OUR COMPILATION OF THIS INFORMATION.
5. IT IS INCUMBENT UPON INDIVIDUALS USING THIS INFORMATION TO UNDERSTAND THAT COMPILING UTILITY INFORMATION IS NOT EXACT, AND IS SUBJECT TO CHANGE BASED UPON VARYING PLAN INFORMATION RECEIVED AND ACTUAL LOCATIONS.
6. THE ACCURACY OF MEASURED UTILITY INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS, THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER MATTERS.
7. THE PROPER UTILITY ENGINEERING/COMPANY SHOULD BE CONSULTED AND THE ACTUAL LOCATIONS OF SUBSURFACE STRUCTURES SHOULD BE VERIFIED IN THE FIELD (V.I.F.) BEFORE PLANNING FUTURE CONNECTIONS. CONTACT THE DIG SAFE CALL CENTER AT 1-888-544-7233, SEVENTY-TWO HOURS PRIOR TO EXCAVATION, BLASTING, GRADING, AND/OR PAVING.
8. AS OF THE DATE OF THIS PLAN RECORD INFORMATION HAS NOT BEEN RECEIVED BY NITSCH ENGINEERING FOR THE FOLLOWING UTILITIES: TELEPHONE (VERIZON), CABLE (CHARTER)

NOTES

1. THIS DOCUMENT IS AN INSTRUMENT OF SERVICE OF NITSCH ENGINEERING. IT IS ISSUED TO RDLA FOR PURPOSES RELATED DIRECTLY AND SOLELY TO NITSCH ENGINEERING'S SCOPE OF SERVICES UNDER CONTRACT WITH RDLA FOR WORCESTER ART PARK - 69 SEVER STREET. ANY USE OR REUSE OF THIS DOCUMENT FOR ANY REASON BY ANY PARTY FOR PURPOSES UNRELATED DIRECTLY AND SOLELY TO SAID CONTRACT AND PROJECT SHALL BE AT THE USER'S SOLE AND EXCLUSIVE RISK AND LIABILITY, INCLUDING LIABILITY FOR VIOLATION OF COPYRIGHT LAWS, UNLESS WRITTEN AUTHORIZATION IS GIVEN THEREOF BY NITSCH ENGINEERING.
2. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS AS THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY WHICH OCCURRED OCTOBER 2022 AND FEBRUARY 2023.
3. THIS SURVEY IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE, NAD83 (2011) EPOCH 2010.00, U.S. SURVEY FOOT, DERIVED FROM RTK OBSERVATIONS WITH CORRECTIONS PROVIDED BY MAGCORS NETWORK.
4. ELEVATION REFERS TO NORTH AMERICAN VERTICAL DATUM (NAVD88) VERTICAL BASED ON RTK GPS OBSERVATIONS WITH CORRECTIONS PROVIDED BY MAGCORS NETWORK.
5. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE SEARCH AND MAY NOT DISCLOSE ANY MATTERS THAT MAY BE REVEALED BY ONE.
6. THIS PLAN DOES NOT SHOW UNWRITTEN OR UNRECORDED EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT AND VISIBLE USES OF THE LAND. THIS PLAN DOES NOT GUARANTEE THAT NO SUCH EASEMENTS EXIST.
7. LEGAL STATUS OF EASEMENTS, WAYS AND RESTRICTIONS NOT DETERMINED BY THIS SURVEY.
8. THE INFORMATION CONTAINED ON THE DISK OR ELECTRONIC DRAWING FILE ACCOMPANYING THIS PLAN MUST BE COMPARED TO THE SEALED AND SIGNED HARD COPY OF THE PLAN TO ENSURE THE ACCURACY OF ALL INFORMATION AND TO ENSURE NO CHANGES, ALTERATIONS, OR MODIFICATIONS HAVE BEEN MADE. RELIANCE SHALL NOT BE MADE ON A DOCUMENT TRANSMITTED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS FIRST COMPARED TO THE ORIGINAL SEALED DOCUMENT ISSUED AT THE TIME OF THE SURVEY. DUE TO THE CRITICAL NATURE OF SURVEYING, DATA ACQUISITION, AND AUTOCAD PLAN DEVELOPMENT, IF CRITICAL DIMENSIONAL INFORMATION IS NEEDED AND IS NOT SPECIFICALLY SHOWN ON THE ELECTRONIC DRAWING FILE, PLEASE CONTACT NITSCH ENGINEERING.

LEGEND

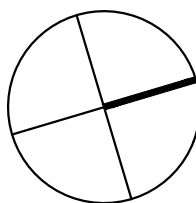
- CATCH BASIN
○ DRAIN MANHOLE
○ ELECTRIC MANHOLE
○ MISCELLANEOUS MANHOLE
○ SEWER MANHOLE
○ WATER SHUT-OFF
○ GAS GATE
○ WATER GATE
○ FIRE HYDRANT
○ DOWN SPOUT
○ UTILITY POLE
○ UTILITY POLE WITH CONDUIT LINE TO GROUND
○ LIGHT POLE
○ SIGN POST
○ DEODOROUS TREE WITH TRUNK DIAMETER
○ CONIFEROUS TREE WITH TRUNK DIAMETER
○ SPOT ELEVATION
○ CHAIN LINK FENCE
○ METAL FENCE
○ VERTICAL GRANITE CURB
○ MULCH AND/OR LANDSCAPE AREA
○ RIM ELEVATION EQUALS
○ INVERT ELEVATION EQUALS
○ TOP OF TRAP ELEVATION EQUALS
○ NO PIPES VISIBLE
○ TOP OF ALL
○ CAN NOT OPEN
○ TOP OF WALL ELEVATION
○ UNDERGROUND DRAIN LINE
○ UNDERGROUND ELECTRIC LINE
○ UNDERGROUND GAS LINE
○ UNDERGROUND SEWER LINE
○ UNDERGROUND TELEPHONE LINE
○ UNDERGROUND WATER LINE
○ OVERHEAD WIRES
○ BENCH MARK



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WORCESTER, MA

PROJECT

EXISTING CONDITIONS PLAN

DRAWING TITLE
CONTRACT NO.

DATE 06.30.23

DRAWN

CKD

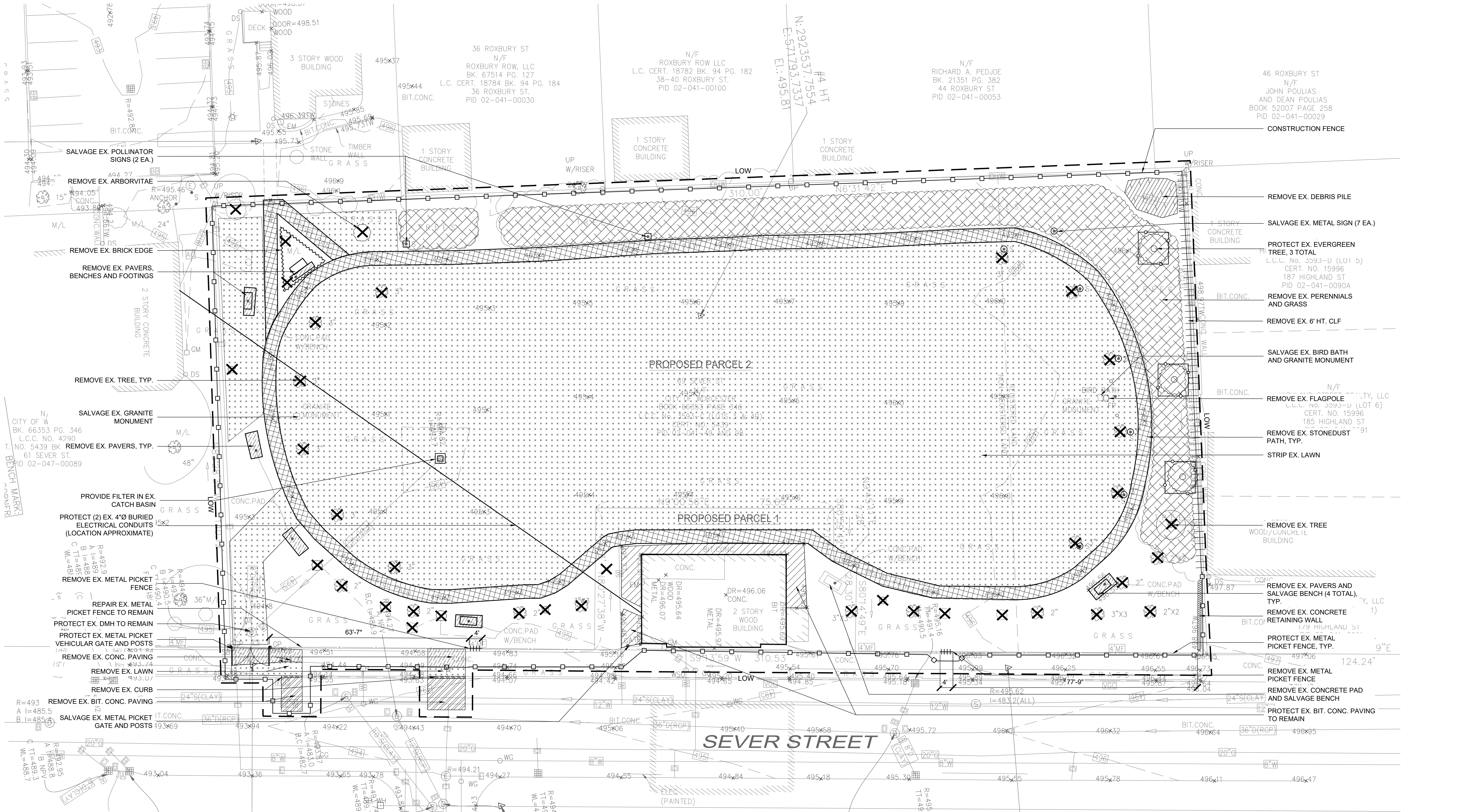
SCALE AS SHOWN SHEET NO.

L-2.0

NOTES:
1. SEE SHEET L-1.0 FOR NOTES, LEGENDS AND ABBREVIATIONS.

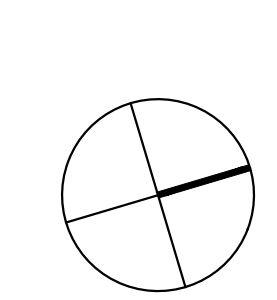


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SEVER STREET PARK
WORCESTER, MA

PROJECT

SITE PREPARATION PLAN

DRAWING TITLE
CONTRACT NO.

DATE 06.30.23

DRAWN SD

CKD RD

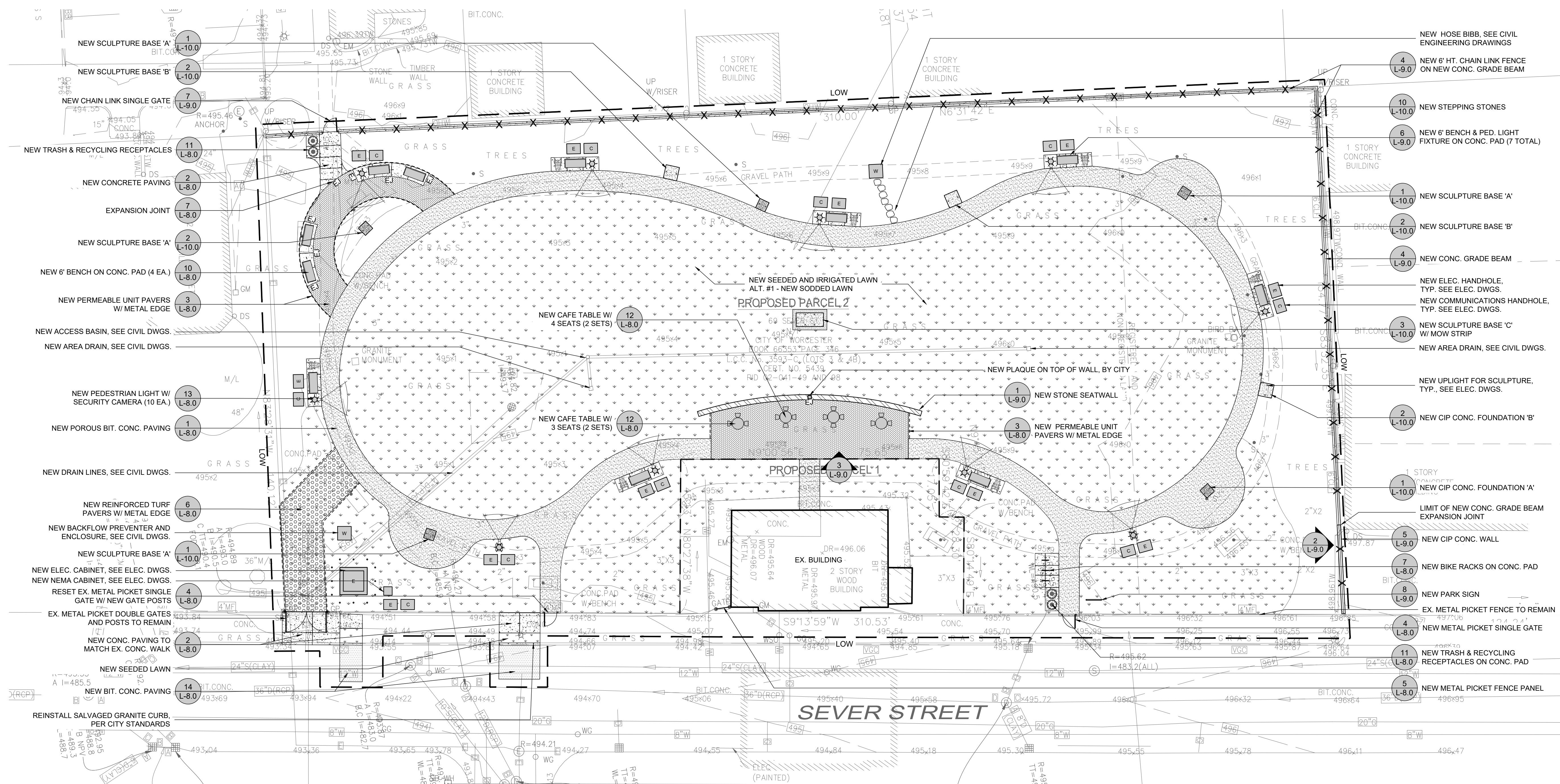
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L-3.0

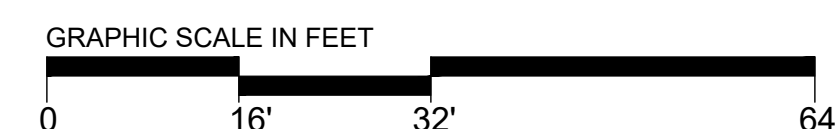
NOTES:
1. SEE SHEET L-1.0 FOR NOTES, LEGENDS AND ABBREVIATIONS.



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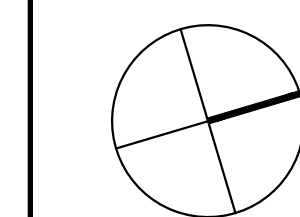


1 MATERIALS PLAN
SCALE: 1/16" = 1'-0"



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WORCESTER, MA

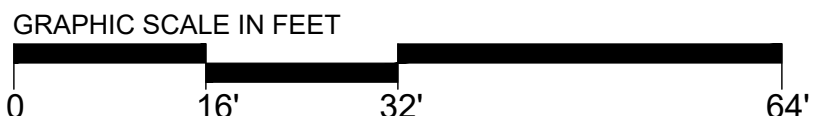
PROJECT

MATERIALS PLAN

DRAWING TITLE
CONTRACT NO.
DATE 06.30.23
DRAWN SD
CKD RD
SCALE AS SHOWN

L-4.0

SHEET NO.



NOTES:

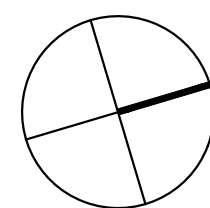
1. SEE SHEET L-1.0 FOR NOTES, LEGENDS AND ABBREVIATIONS



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LAYOUT PLAN

DRAWING TITLE
CONTRACT NO.

DATE 06.30.23

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CKD	RD
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AS SHOWN | SHEET NO

L-5.0

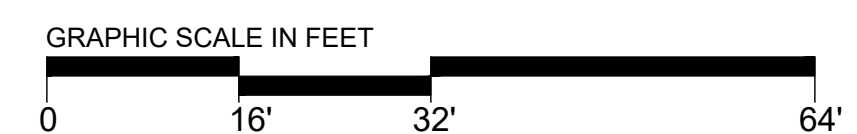
1. SEE SHEET N-1 FOR NOTES, LEGENDS AND ABBREVIATIONS.



The site plan illustrates a property with several existing and proposed structures. Key features include:

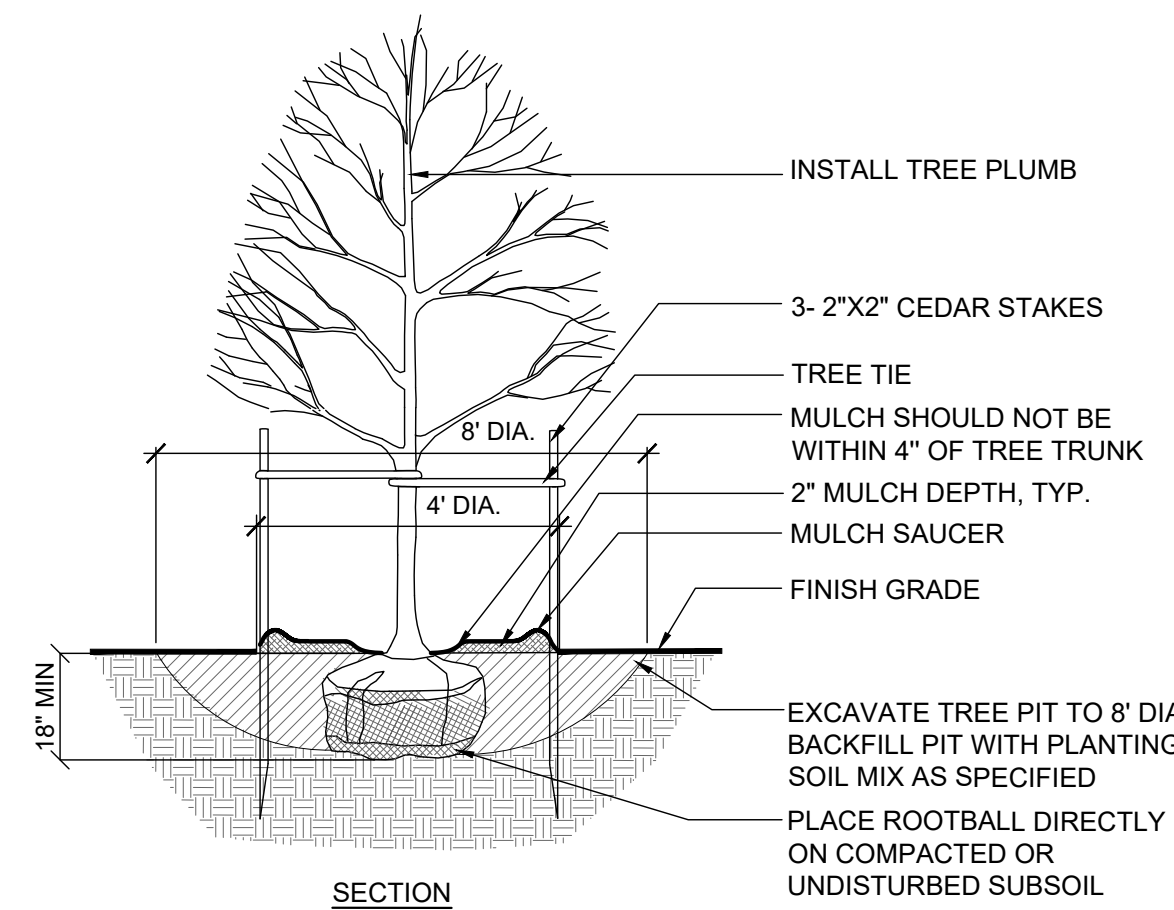
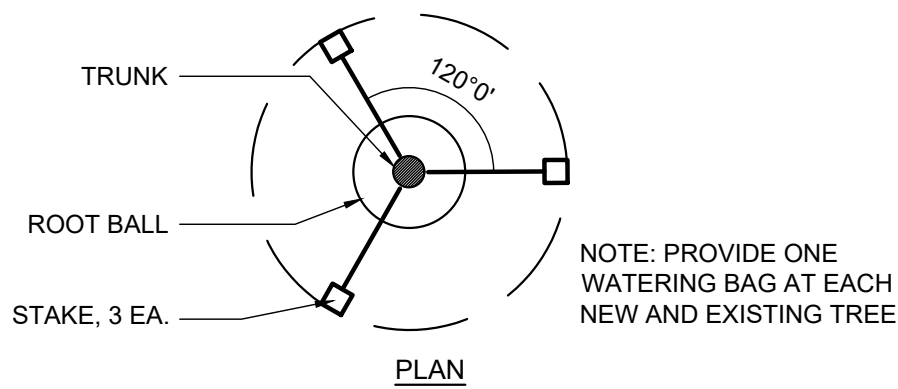
- Buildings:** A 3-story wood building on the left, a 1-story concrete building in the upper center, and a 2-story wood building in the lower center.
- Landscaping:** A large grassy area with numerous trees and a gravel path.
- Utilities and Structures:** Various annotations for utilities (e.g., "MEG", "R=495.46", "R=495.62") and structures (e.g., "CONC. PAD", "W/BENCH").
- Elevations:** Numerous spot elevations are provided throughout the plan, such as 495.81, 496.15, 495.85, 495.80, 495.65, 495.55, 495.50, 495.45, 495.40, 495.35, 495.30, 495.25, 495.20, 495.15, 495.10, 495.05, 495.00, 494.95, 494.90, 494.85, 494.80, 494.75, 494.70, 494.65, 494.60, 494.55, 494.50, 494.45, 494.40, 494.35, 494.30, 494.25, 494.20, 494.15, 494.10, 494.05, 494.00, 493.95, 493.90, 493.85, 493.80, 493.75, 493.70, 493.65, 493.60, 493.55, 493.50, 493.45, 493.40, 493.35, 493.30, 493.25, 493.20, 493.15, 493.10, 493.05, 493.00, 492.95, 492.90, 492.85, 492.80, 492.75, 492.70, 492.65, 492.60, 492.55, 492.50, 492.45, 492.40, 492.35, 492.30, 492.25, 492.20, 492.15, 492.10, 492.05, 492.00, 491.95, 491.90, 491.85, 491.80, 491.75, 491.70, 491.65, 491.60, 491.55, 491.50, 491.45, 491.40, 491.35, 491.30, 491.25, 491.20, 491.15, 491.10, 491.05, 491.00, 490.95, 490.90, 490.85, 490.80, 490.75, 490.70, 490.65, 490.60, 490.55, 490.50, 490.45, 490.40, 490.35, 490.30, 490.25, 490.20, 490.15, 490.10, 490.05, 490.00, 489.95, 489.90, 489.85, 489.80, 489.75, 489.70, 489.65, 489.60, 489.55, 489.50, 489.45, 489.40, 489.35, 489.30, 489.25, 489.20, 489.15, 489.10, 489.05, 489.00, 488.95, 488.90, 488.85, 488.80, 488.75, 488.70, 488.65, 488.60, 488.55, 488.50, 488.45, 488.40, 488.35, 488.30, 488.25, 488.20, 488.15, 488.10, 488.05, 488.00, 487.95, 487.90, 487.85, 487.80, 487.75, 487.70, 487.65, 487.60, 487.55, 487.50, 487.45, 487.40, 487.35, 487.30, 487.25, 487.20, 487.15, 487.10, 487.05, 487.00, 486.95, 486.90, 486.85, 486.80, 486.75, 486.70, 486.65, 486.60, 486.55, 486.50, 486.45, 486.40, 486.35, 486.30, 486.25, 486.20, 486.15, 486.10, 486.05, 486.00, 485.95, 485.90, 485.85, 485.80, 485.75, 485.70, 485.65, 485.60, 485.55, 485.50, 485.45, 485.40, 485.35, 485.30, 485.25, 485.20, 485.15, 485.10, 485.05, 485.00, 484.95, 484.90, 484.85, 484.80, 484.75, 484.70, 484.65, 484.60, 484.55, 484.50, 484.45, 484.40, 484.35, 484.30, 484.25, 484.20, 484.15, 484.10, 484.05, 484.00, 483.95, 483.90, 483.85, 483.80, 483.75, 483.70, 483.65, 483.60, 483.55, 483.50, 483.45, 483.40, 483.35, 483.30, 483.25, 483.20, 483.15, 483.10, 483.05, 483.00, 482.95, 482.90, 482.85, 482.80, 482.75, 482.70, 482.65, 482.60, 482.55, 482.50, 482.45, 482.40, 482.35, 482.30, 482.25, 482.20, 482.15, 482.10, 482.05, 482.00, 481.95, 481.90, 481.85, 481.80, 481.75, 481.70, 481.65, 481.60, 481.55, 481.50, 481.45, 481.40, 481.35, 481.30, 481.25, 481.20, 481.15, 481.10, 481.05, 481.00, 480.95, 480.90, 480.85, 480.80, 480.75, 480.70, 480.65, 480.60, 480.55, 480.50, 480.45, 480.40, 480.35, 480.30, 480.25, 480.20, 480.15, 480.10, 480.05, 480.00, 479.95, 479.90, 479.85, 479.80, 479.75, 479.70, 479.65, 479.60, 479.55, 479.50, 479.45, 479.40, 479.35, 479.30, 479.25, 479.20, 479.15, 479.10, 479.05, 479.00, 478.95, 478.90, 478.85, 478.80, 478.75, 478.70, 478.65, 478.60, 478.55, 478.50, 478.45, 478.40, 478.35, 478.30, 478.25, 478.20, 478.15, 478.10, 478.05, 478.00, 477.95, 477.90, 477.85, 477.80, 477.75, 477.70, 477.65, 477.60, 477.55, 477.50, 477.45, 477.40, 477.35, 477.30, 477.25, 477.20, 477.15, 477.10, 477.05, 477.00, 476.95, 476.90, 476.85, 476.80, 476.75, 476.70, 476.65, 476.60, 476.55, 476.50, 476.45, 476.40, 476.35, 476.30, 476.25, 476.20, 476.15, 476.10, 476.05, 476.00, 475.95, 475.90, 475.85, 475.80, 475.75, 475.70, 475.65, 475.60, 475.55, 475.50, 475.45, 475.40, 475.35, 475.30, 475.25, 475.20, 475.15, 475.10, 475.05, 475.00, 474.95, 474.90, 474.85, 474.80, 474.75, 474.70, 474.65, 474.60, 474.55, 474.50, 474.45, 474.40, 474.35, 474.30, 474.25, 474.20, 474.15, 474.10, 474.05, 474.00, 473.95, 473.90, 473.85, 473.80, 473.75, 473.70, 473.65, 473.60, 473.55, 473.50, 473.45, 473.40, 473.35, 473.30, 473.25, 473.20, 473.15, 473.10, 473.05, 473.00, 472.95, 472.90, 472.85, 472.80, 472.75, 472.70, 472.65, 472.60, 472.55, 472.50, 472.45, 472.40, 472.35, 472.30, 472.25, 472.

1 GRADING PLAN
SCALE: 1/16" = 1'-0"

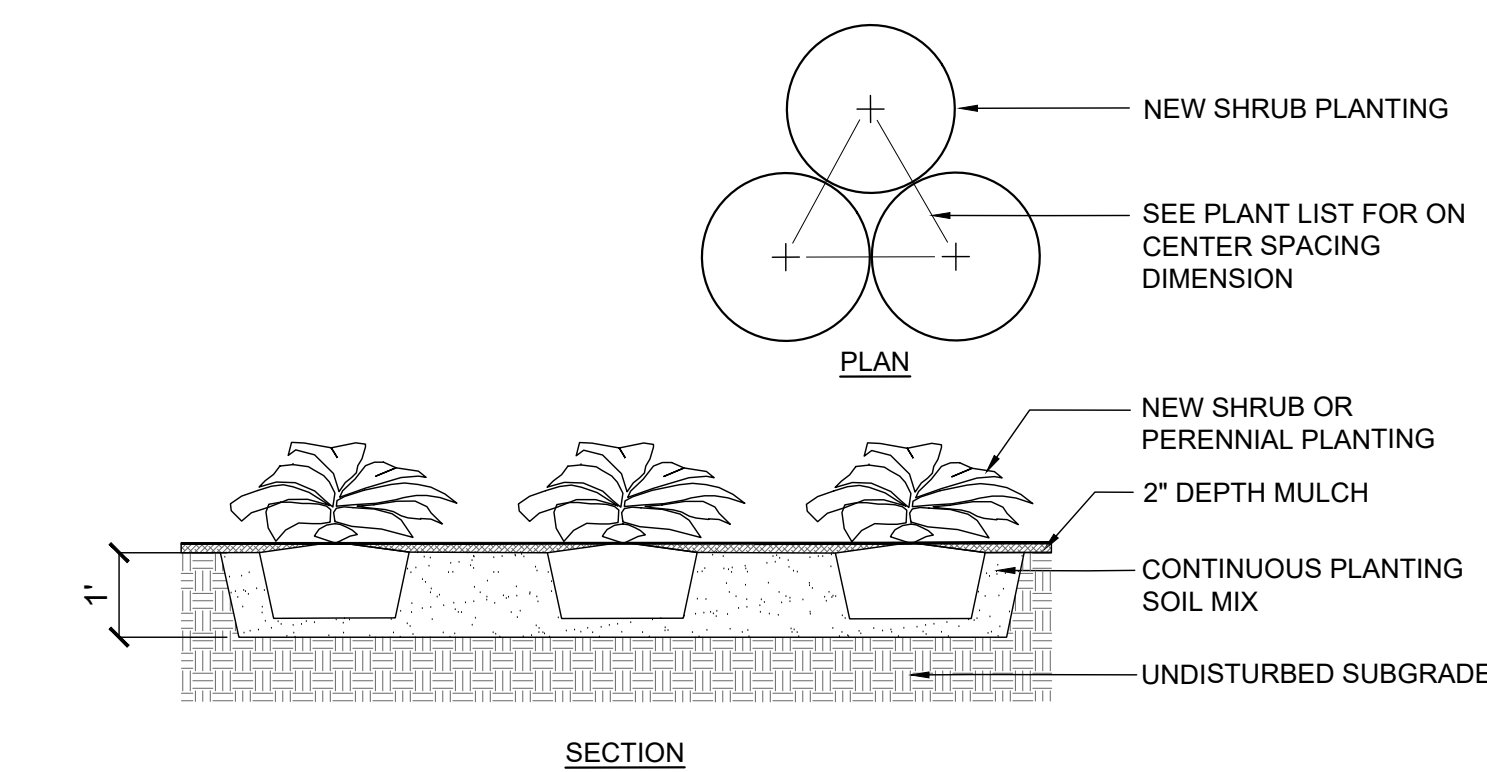


L-6.0

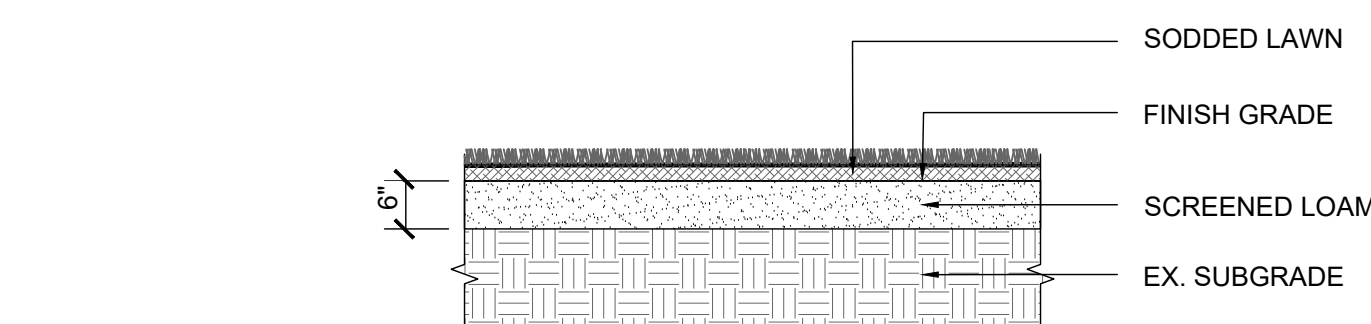
SHEET NO.



2 TREE PLANTING
NOT TO SCALE



3 PERENNIAL, GRASSES AND SHRUB PLANTING
NOT TO SCALE



4 ALT. #1 - SODDED LAWN
SCALE: 1/2" = 1'-0"

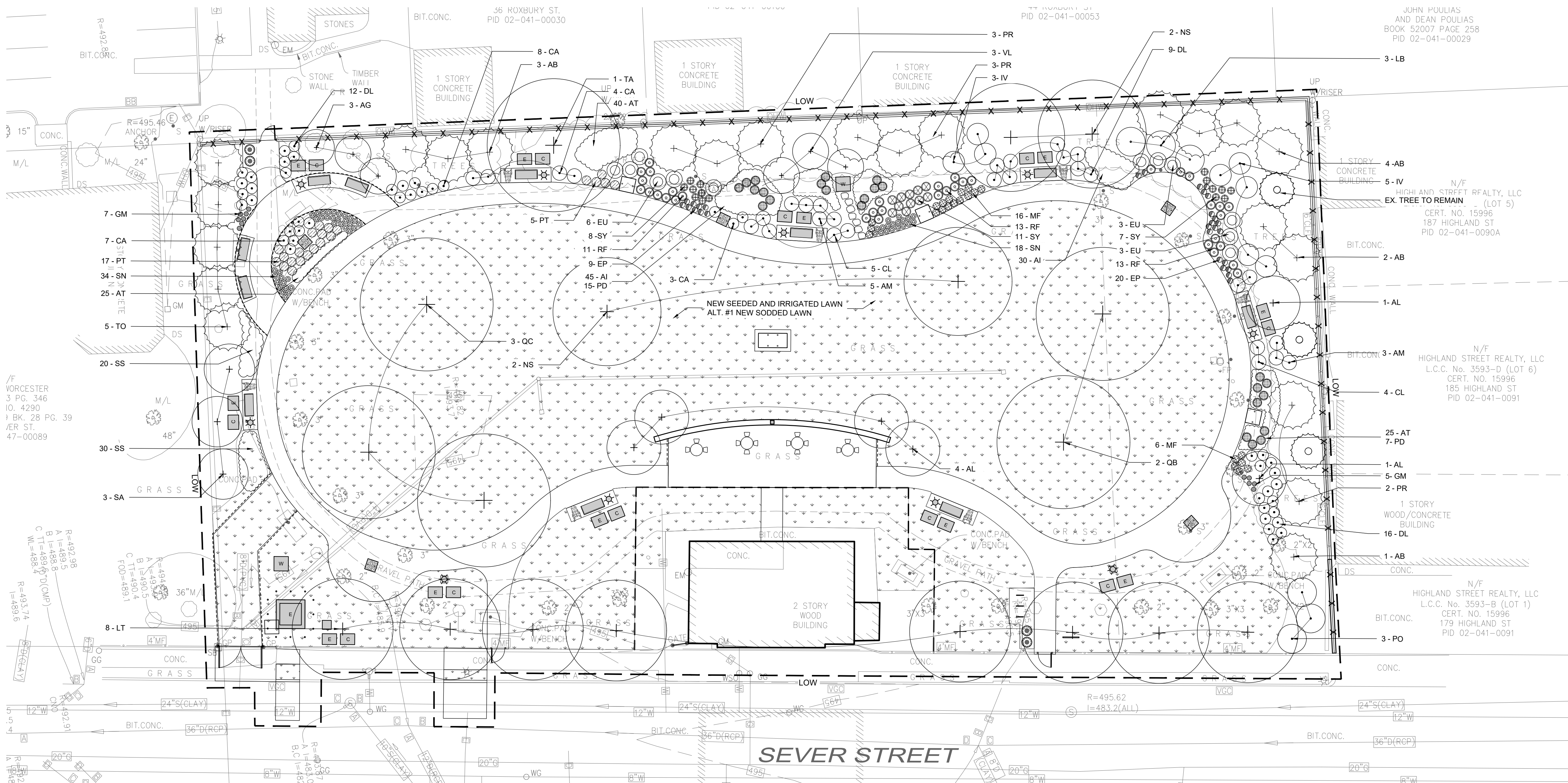
PLANTING SCHEDULE

QTY.	UNIT	SYM.	BOTANICAL NAME	COMMON NAME	MIN SIZE / CAL.	ROOT	SPACING O.C.	NOTES
TREE								
10	EA	AB	ABIES BALSAMEA	BALSAM FIR	10' HT	B&B	AS SHOWN	
3	EA	AG	AMELANCHIER CANADENSIS 'GLENFORM'	RAINBOW PILLAR SERVICEBERRY	2" CAL	B&B		
6	EA	AL	AMELANCHIER LAEVIS	ALLEGHANY SERVICEBERRY	2" CAL	B&B	AS SHOWN	
8	EA	AT	LIRIODENDRON TULIPIFERA 'EMERALD CITY'	EMERALD CITY TULIP TREE	3" CAL	B&B	AS SHOWN	
4	EA	NS	NYSSA SYLVATICA	BLACKGUM	3" CAL	B&B	AS SHOWN	
8	EA	PR	PINUS RESINOSA	RED PINE	10' HT	B&B	AS SHOWN	
3	EA	SA	SASSFRAS ALBIDUM	COMMON SASSAFRAS	2" CAL	B&B	AS SHOWN	
1	EA	TA	TILIA AMERICANA	BASSWOOD	3" CAL	B&B	AS SHOWN	
2	EA	QB	QUERCUS BICOLOR	SWAMP WHITE OAK	3" CAL	B&B	AS SHOWN	
3	EA	QC	QUERCUS COCCINEA	SCARLET OAK	3" CAL	B&B	AS SHOWN	
5	EA	TO	THUJA OCCID. 'NIGRA'	DARK AMERICAN ARBORVITAE	10' HT	B&B	AS SHOWN	
SHRUBS								
8	EA	AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	3 GAL.	CONT.	AS SHOWN	
22	EA	CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA	3 GAL.	CONT.	AS SHOWN	
9	EA	CL	CLETHRA ALNIFOLIA	SUMMERSWEET	5 GAL.	CONT.	AS SHOWN	
37	EA	DL	DIERVILLA LONICERA	BUSH HONEYSUCKLE	3 GAL.	CONT.	AS SHOWN	
8	EA	IV	ILEX VERTICILLATA	WINTERBERRY	5 GAL.	CONT.	AS SHOWN	PROVIDE 1 MALE POLLINATOR
3	EA	LB	LINDERA BENZONI	SPICEBUSH	5' HT	B&B	AS SHOWN	
3	EA	PO	PHYSCOPARUS OPULIFOLIUS	NINEBARK	5' HT	B&B	AS SHOWN	
3	EA	VL	VIBURNUM LENTAGO	NANNYBERRY VIBURNUM	2" CAL	B&B	AS SHOWN	
PERENNIALS								
75	EA	AI	ASCLEPIAS INCARNATA	SWAMP MILKWEED	1 GAL.	CONT.	24"	
90	EA	AT	ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1 GAL.	CONT.	24"	
29	EA	EP	ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GAL.	CONT.	18"	
12	EA	EU	EUPATORIUM FISTULOSA	JOE PYE WEED	1 GAL.	CONT.	36"	
12	EA	GM	GERANIUM MACULATUM	WILD GERANIUM	1 GAL.	CONT.	12-18"	
22	EA	MF	MONARDA FISTULOSA	WILD BERGAMOT	1 GAL.	CONT.	18"	
22	EA	PD	PENSTEMON DIGITALIS	FOXGLOVE BEARDTONGUE	1 GAL.	CONT.	18"	
22	EA	PT	PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAIN MINT	1 GAL.	CONT.	18"	
37	EA	RF	RUDBECKIA FULGIDA	BLACK EYED SUSAN	1 GAL.	CONT.	24"	
52	EA	SN	SOLIDAGO MEMORALIS	GRAY GOLDENROD	1 GAL.	CONT.	18"	
26	EA	SY	SYMPHYOTRICHUM NOVAE-ANGLIAE	NEW ENGLAND ASTER	1 GAL.	CONT.	24"	
NATIVE GRASSES								
20	EA	SS	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	2 GAL.	CONT.	24"	

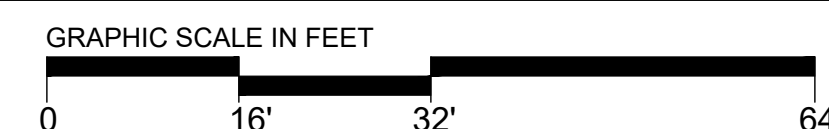
NOTES:
1. SEE SHEET L-1.0 FOR NOTES, LEGENDS AND ABBREVIATIONS.



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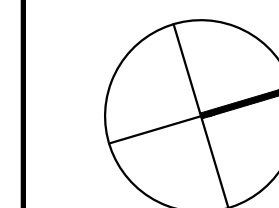


1 PLANTING PLAN
SCALE: 1/16" = 1'-0"



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WORCESTER, MA

PROJECT

PLANTING PLAN, PLANT
LIST AND PLANTING
DETAILS

DRAWING TITLE
CONTRACT NO.

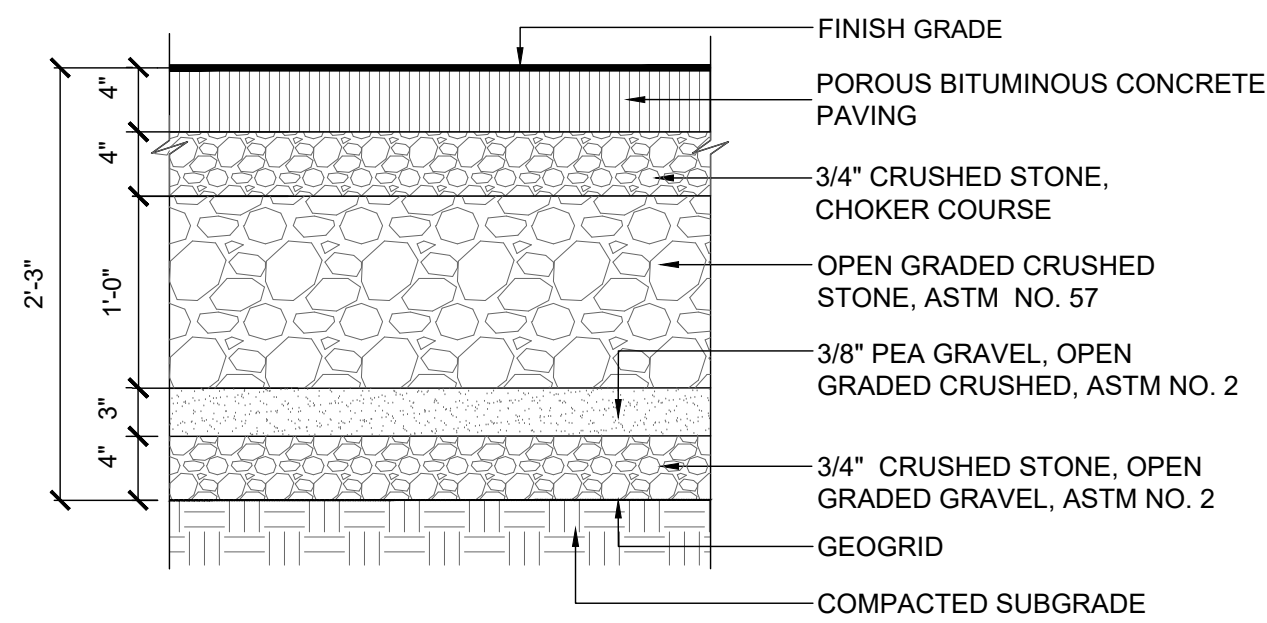
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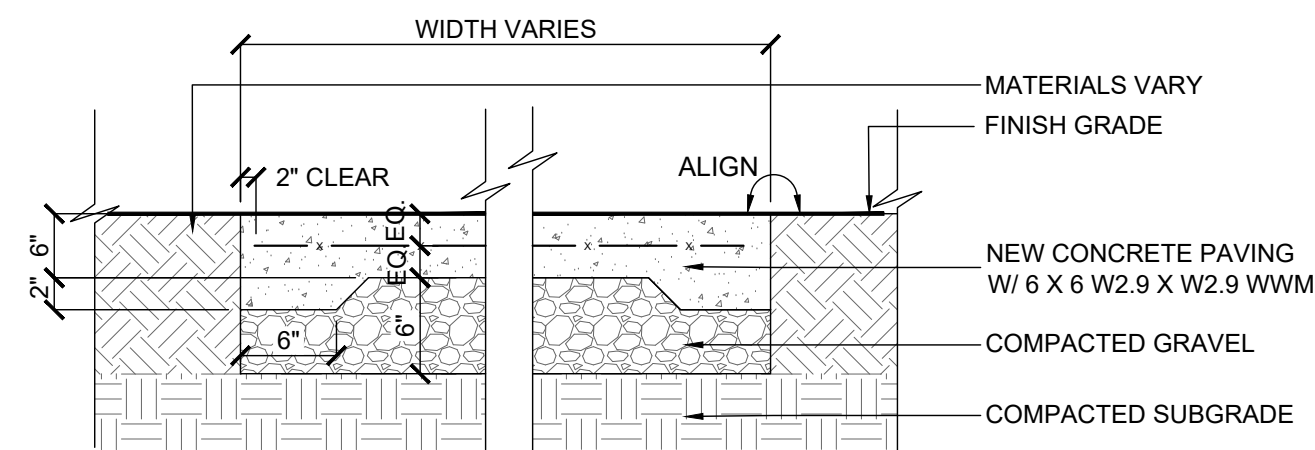
CKD RD

SCALE AS SHOWN SHEET NO.

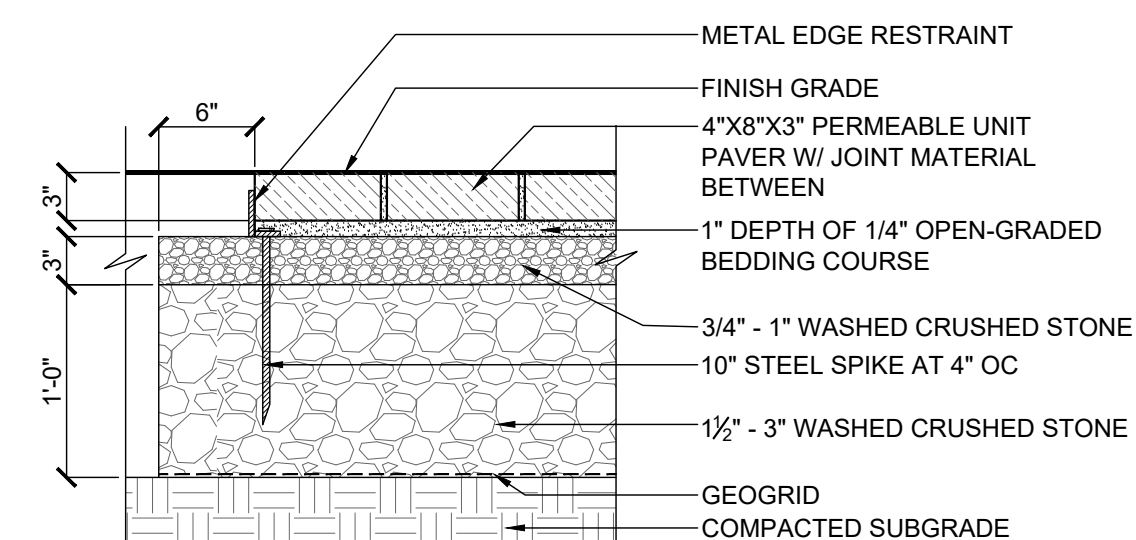
L-7.0



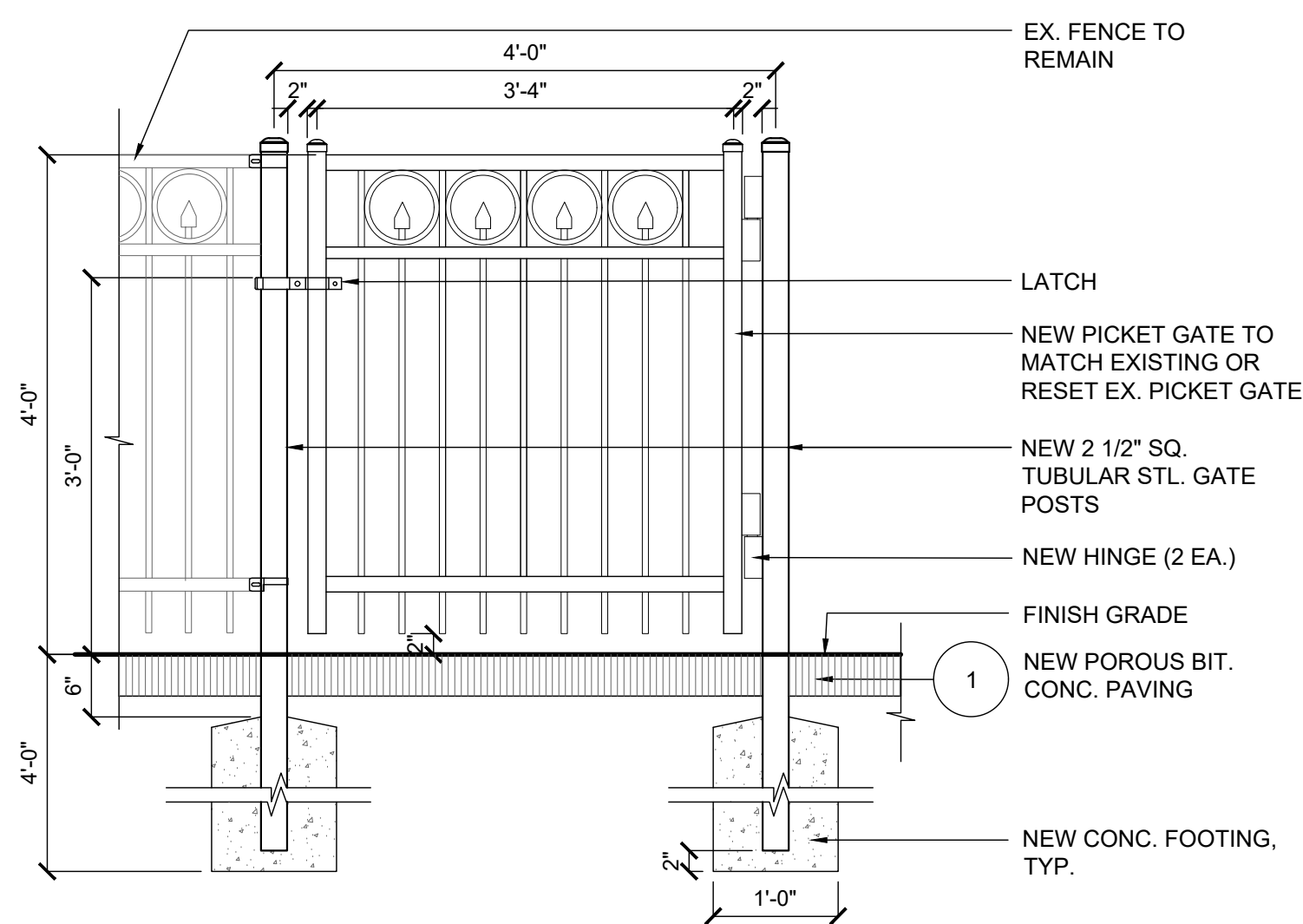
1 POROUS BITUMINOUS CONCRETE PAVING - SECTION
SCALE: 1" = 1'-0"



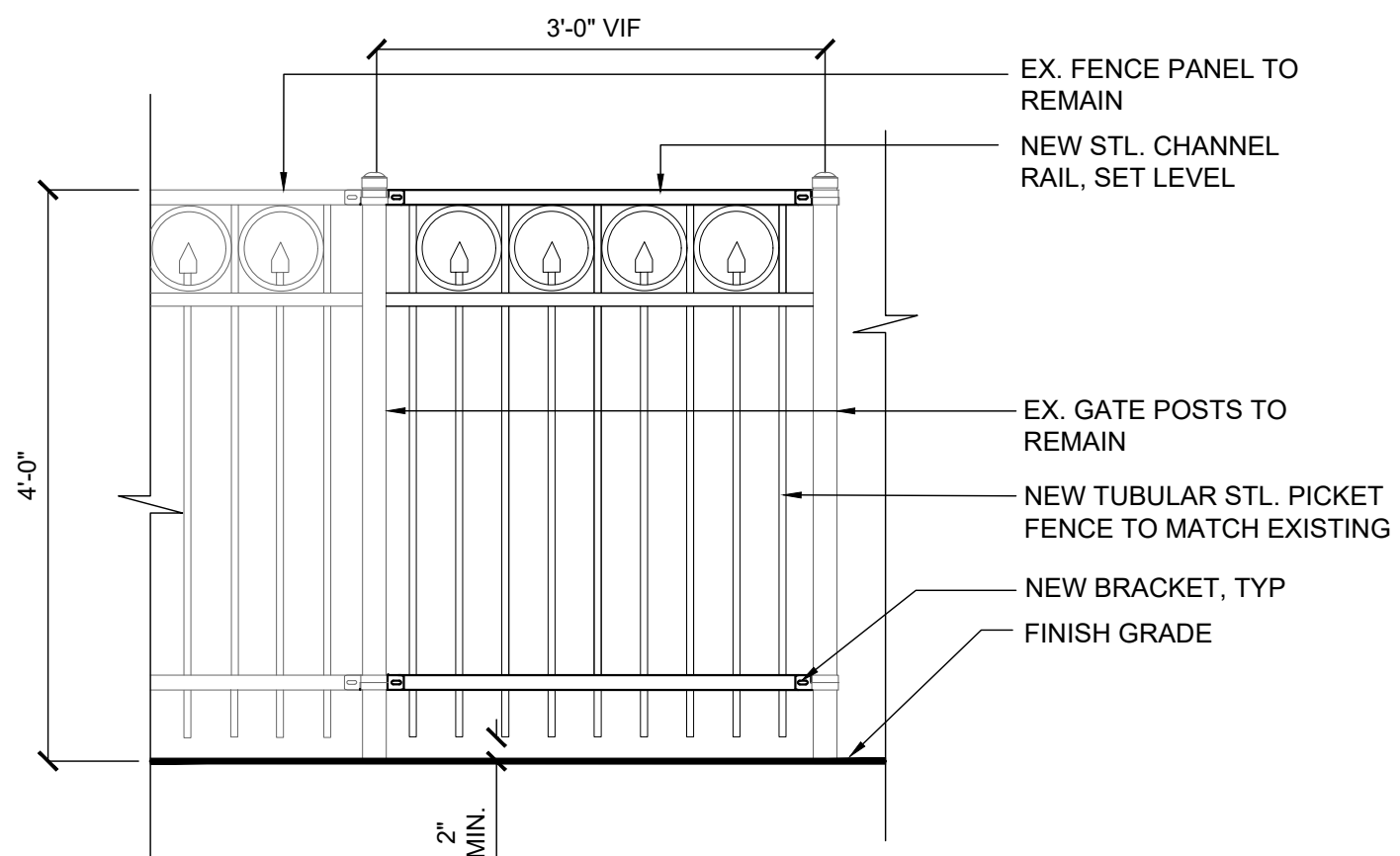
2 CONCRETE PAVING - SECTION
SCALE: 1" = 1'-0"



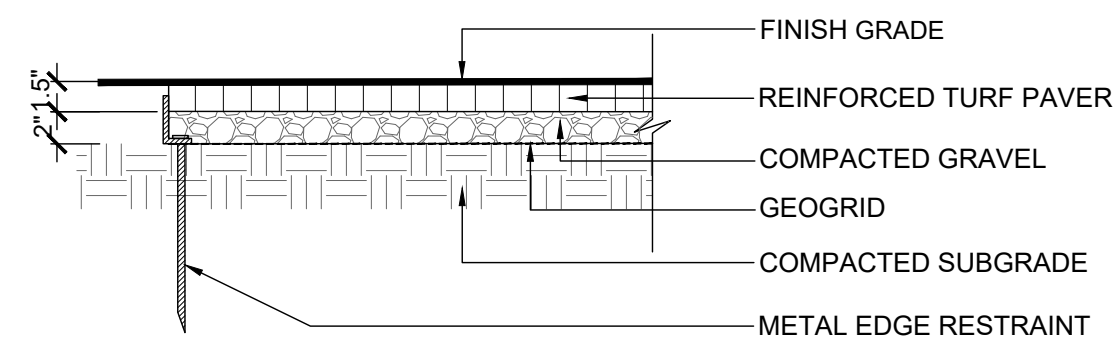
3 PERMEABLE UNIT PAVERS - SECTION
SCALE: 1" = 1'-0"



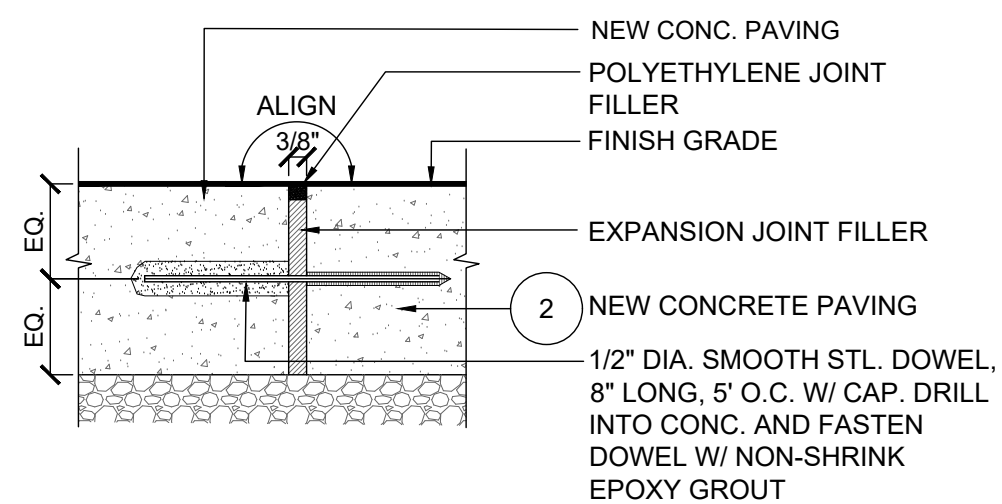
4 METAL PICKET GATE - ELEVATION
SCALE: 3/4" = 1'-0"



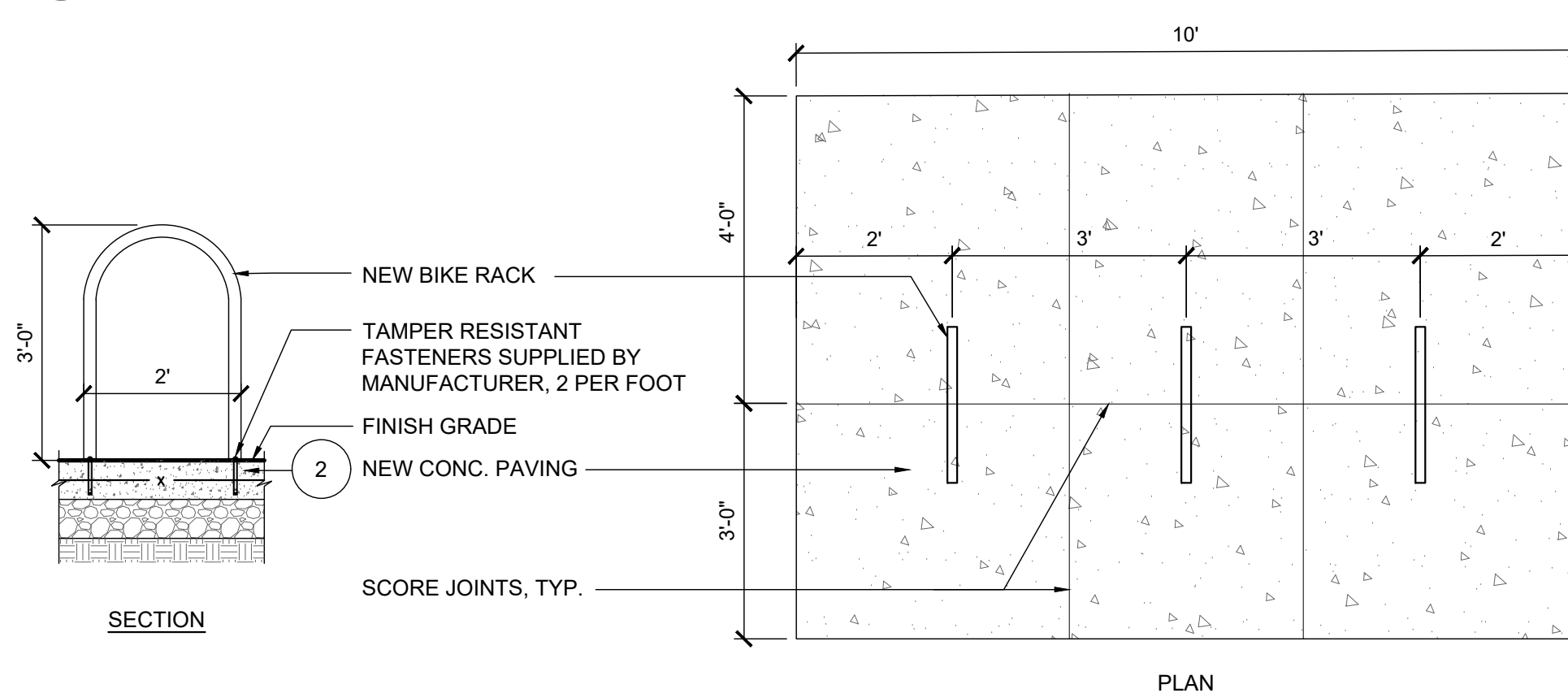
5 METAL PICKET FENCE - SECTION
SCALE: 3/4" = 1'-0"



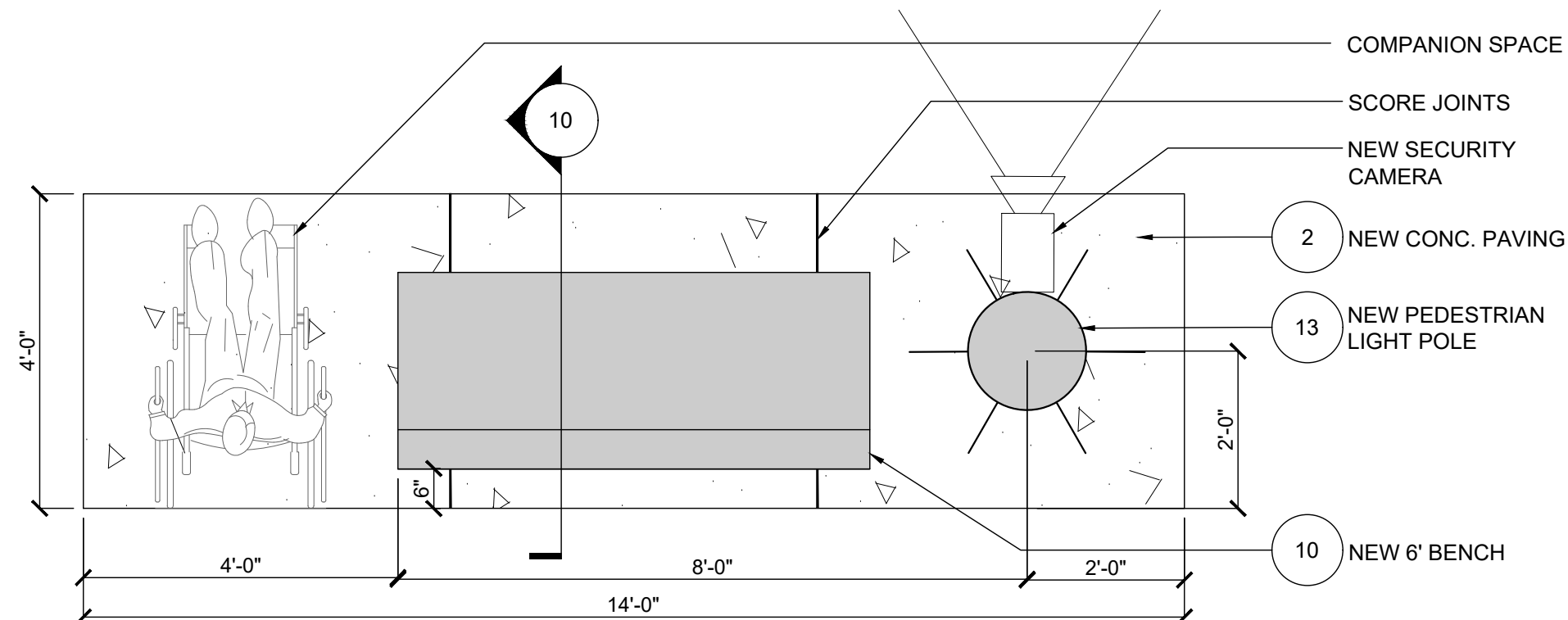
6 REINFORCED TURF PAVERS - SECTION
SCALE: 1" = 1'-0"



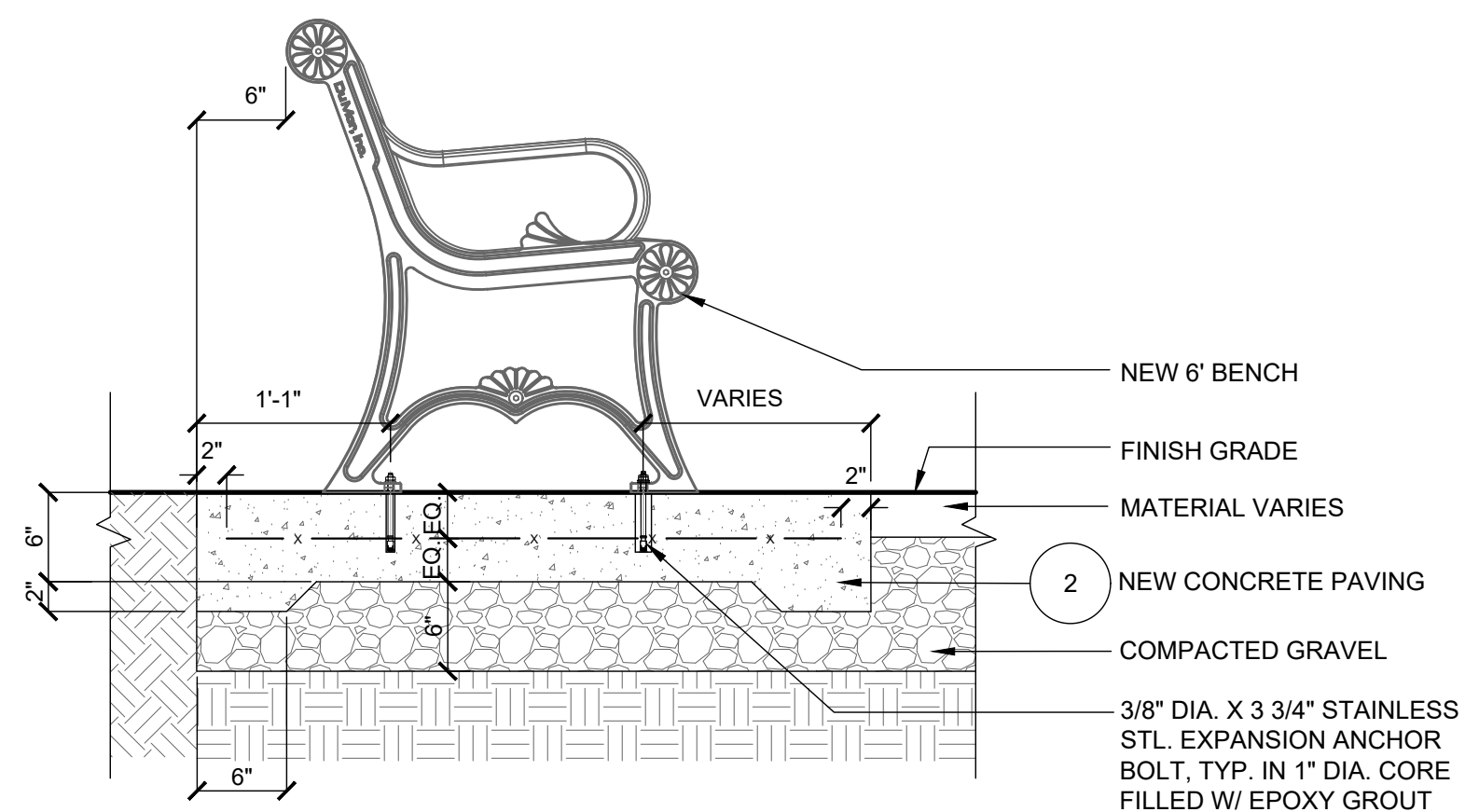
7 EXPANSION JOINT - SECTION
SCALE: 3" = 1'-0"



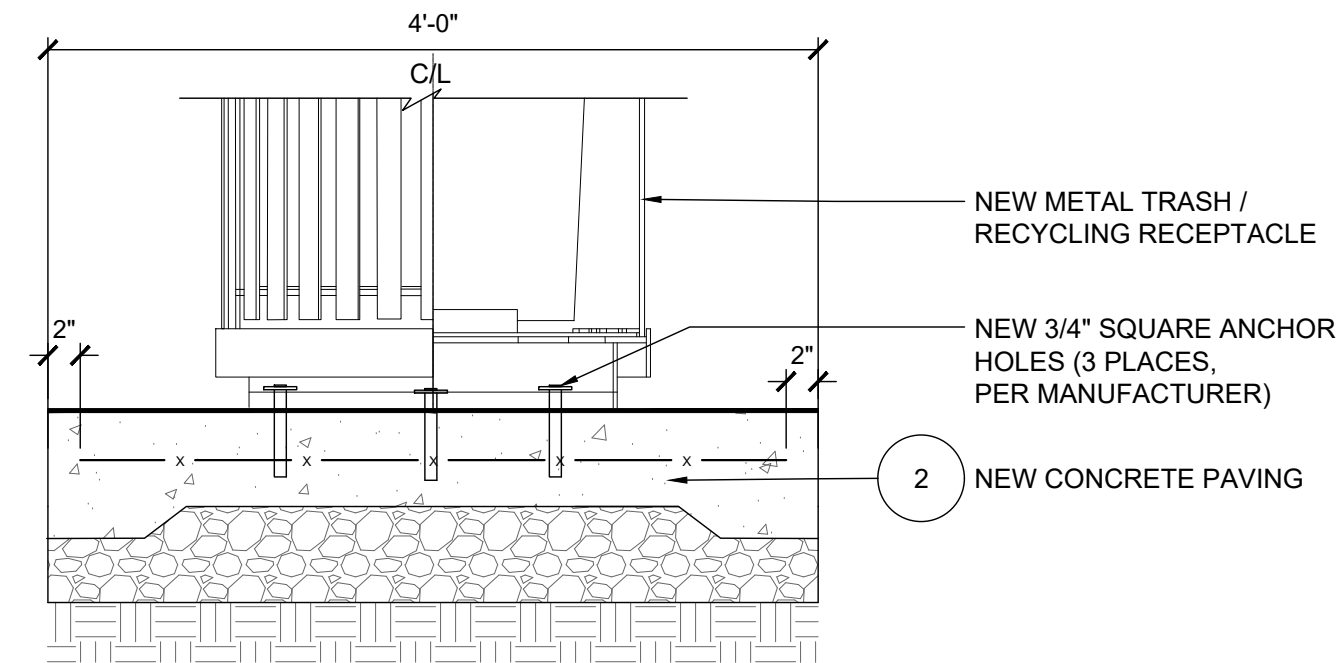
8 BIKE RACKS - SECTION AND PLAN
SCALE: 1/2" = 1'-0"



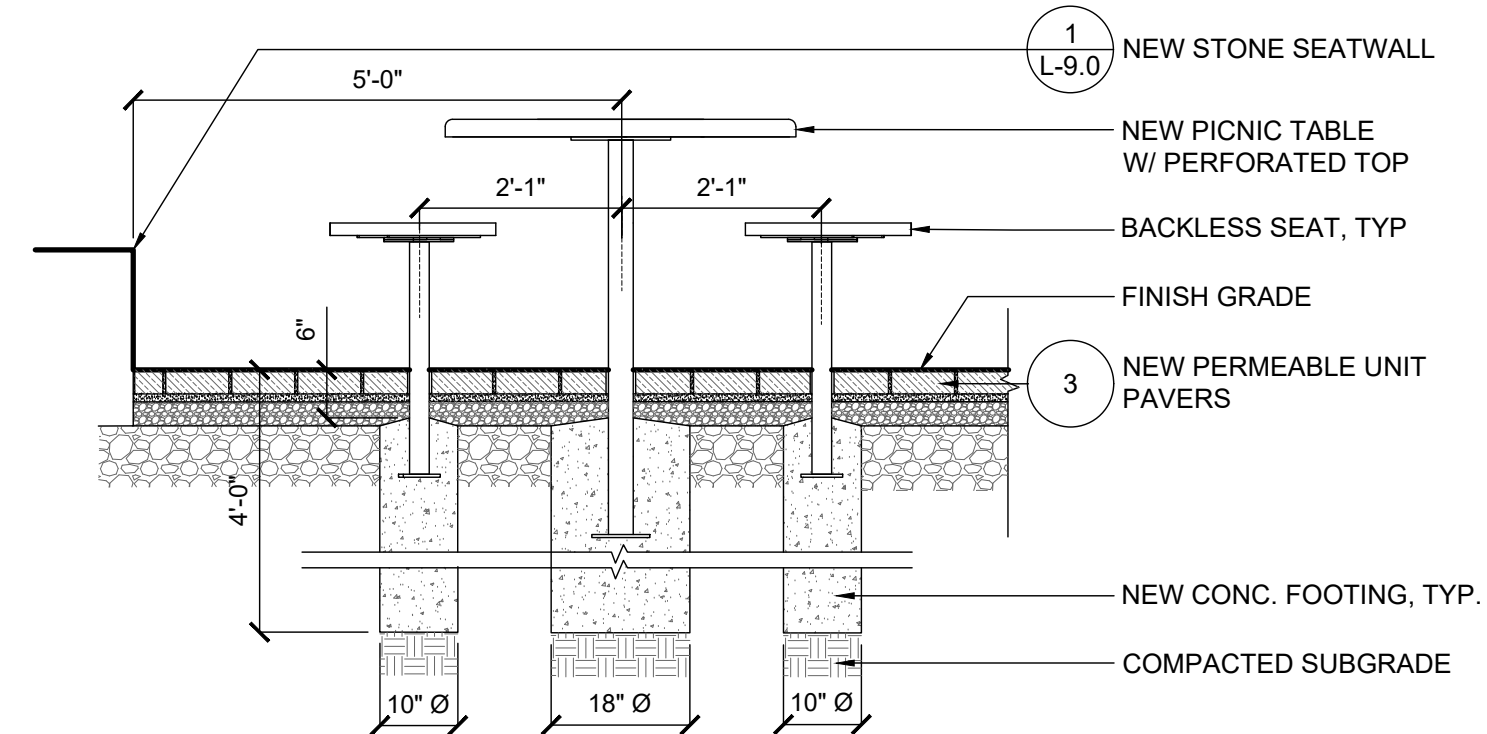
9 BENCH ON CONCRETE PAD - PLAN
SCALE: 1/2" = 1'-0"



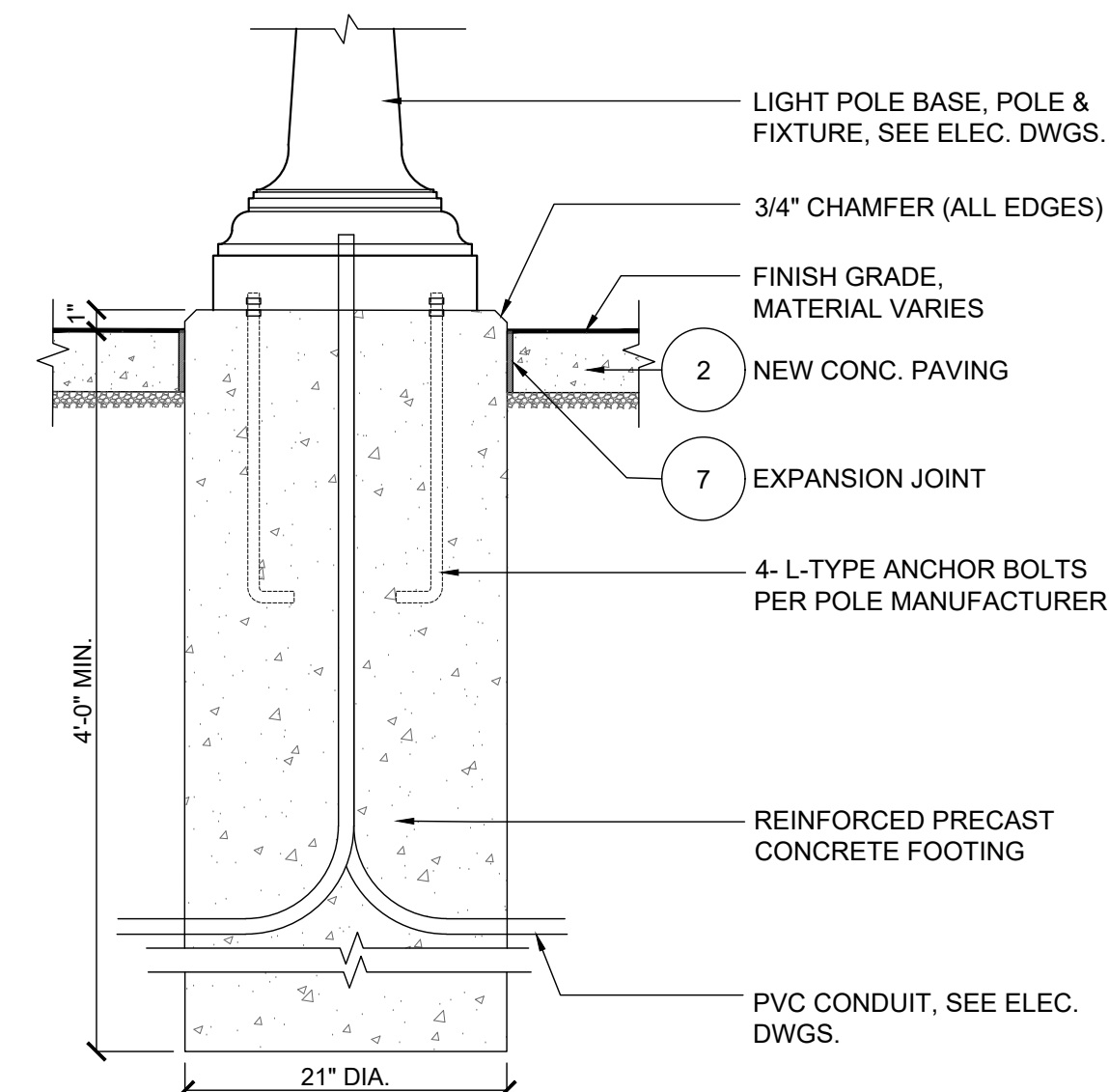
10 6' BENCH ON CONC. PAD - SECTION
SCALE: 1" = 1'-0"



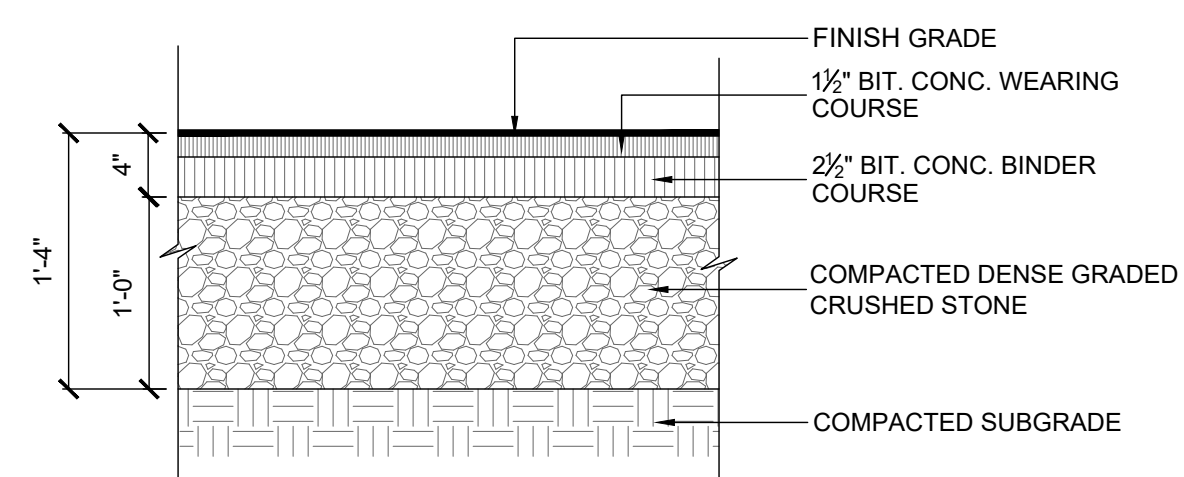
11 TRASH / RECYCLING RECEPTACLE ON CONC. PAD - SECTION
SCALE: 1" = 1'-0"



12 CAFE TABLE AND SEATS - SECTION
SCALE: 1/2" = 1'-0"



13 LIGHT POLE FOUNDATION - SECTION
SCALE: 1" = 1'-0"



14 BIT. CONC. PAVING - SECTION
SCALE: 1" = 1'-0"



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SITE DETAILS

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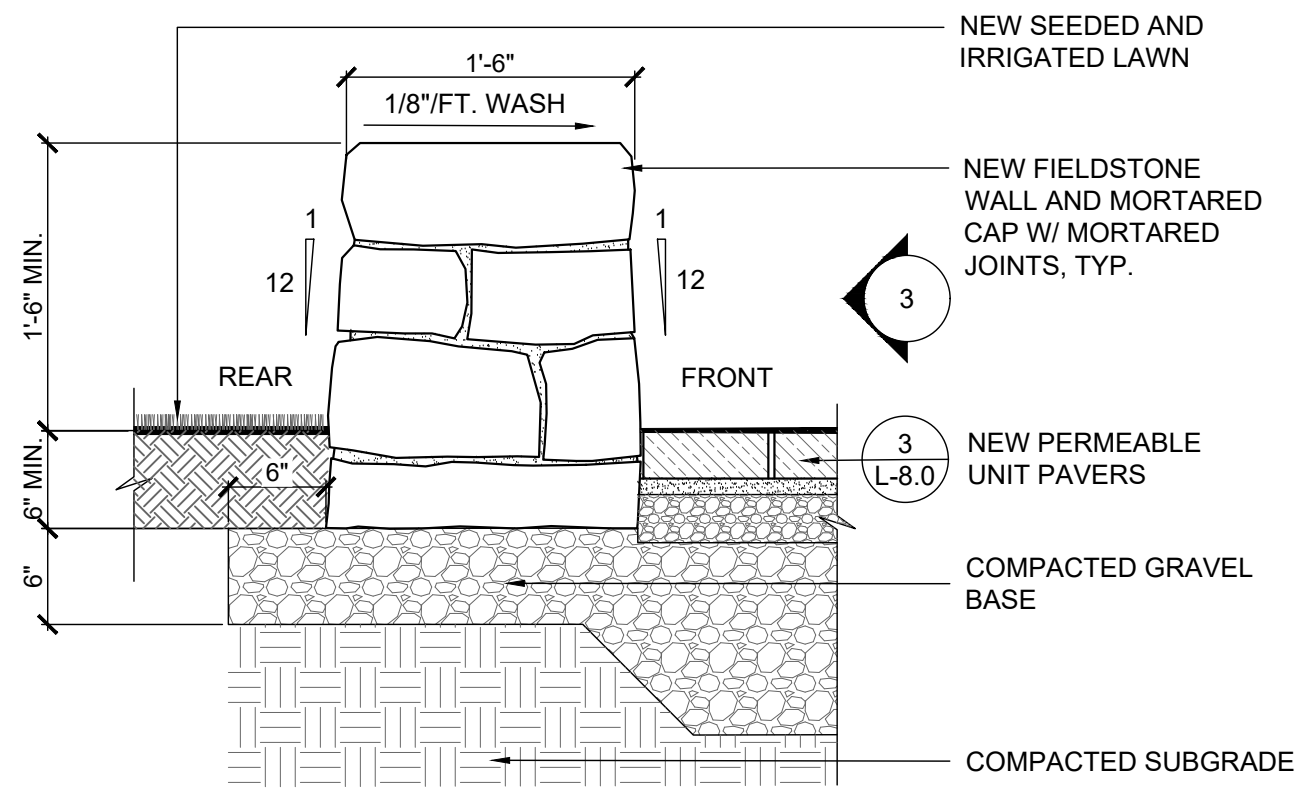
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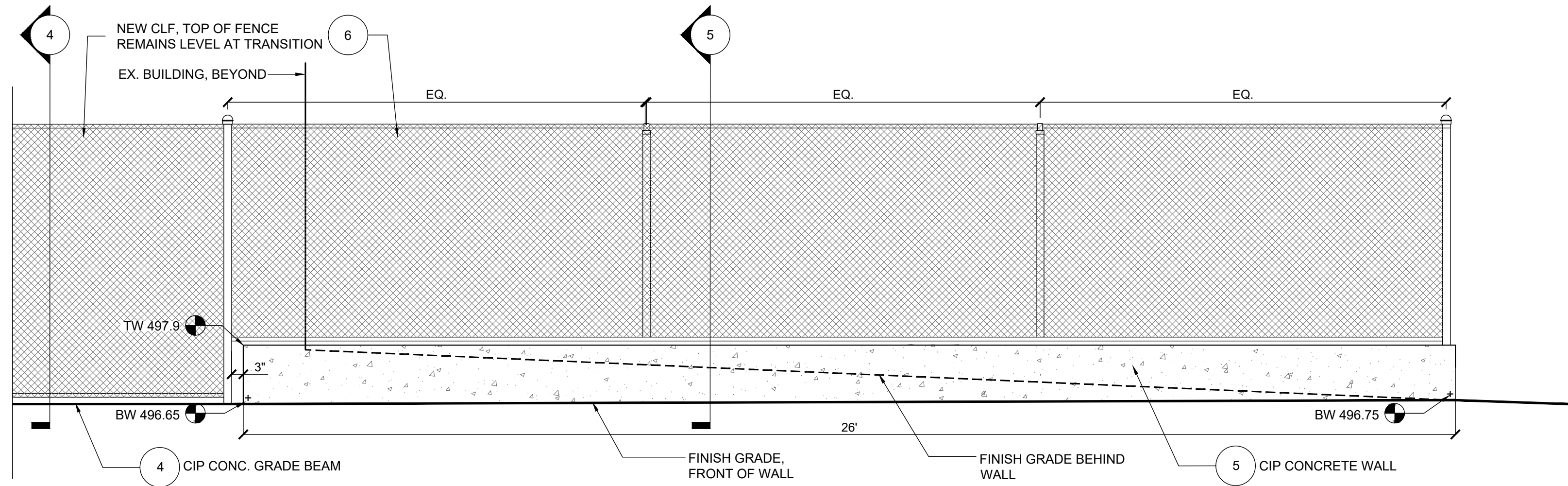
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SCALE AS SHOWN SHEET NO.

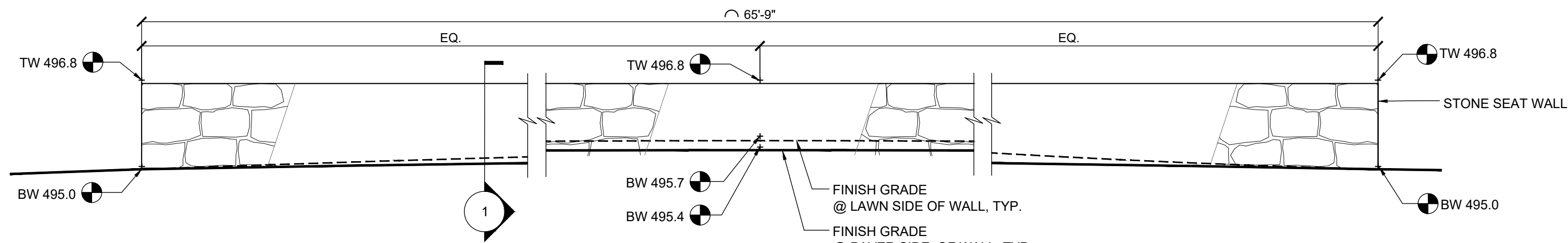
L-8.0



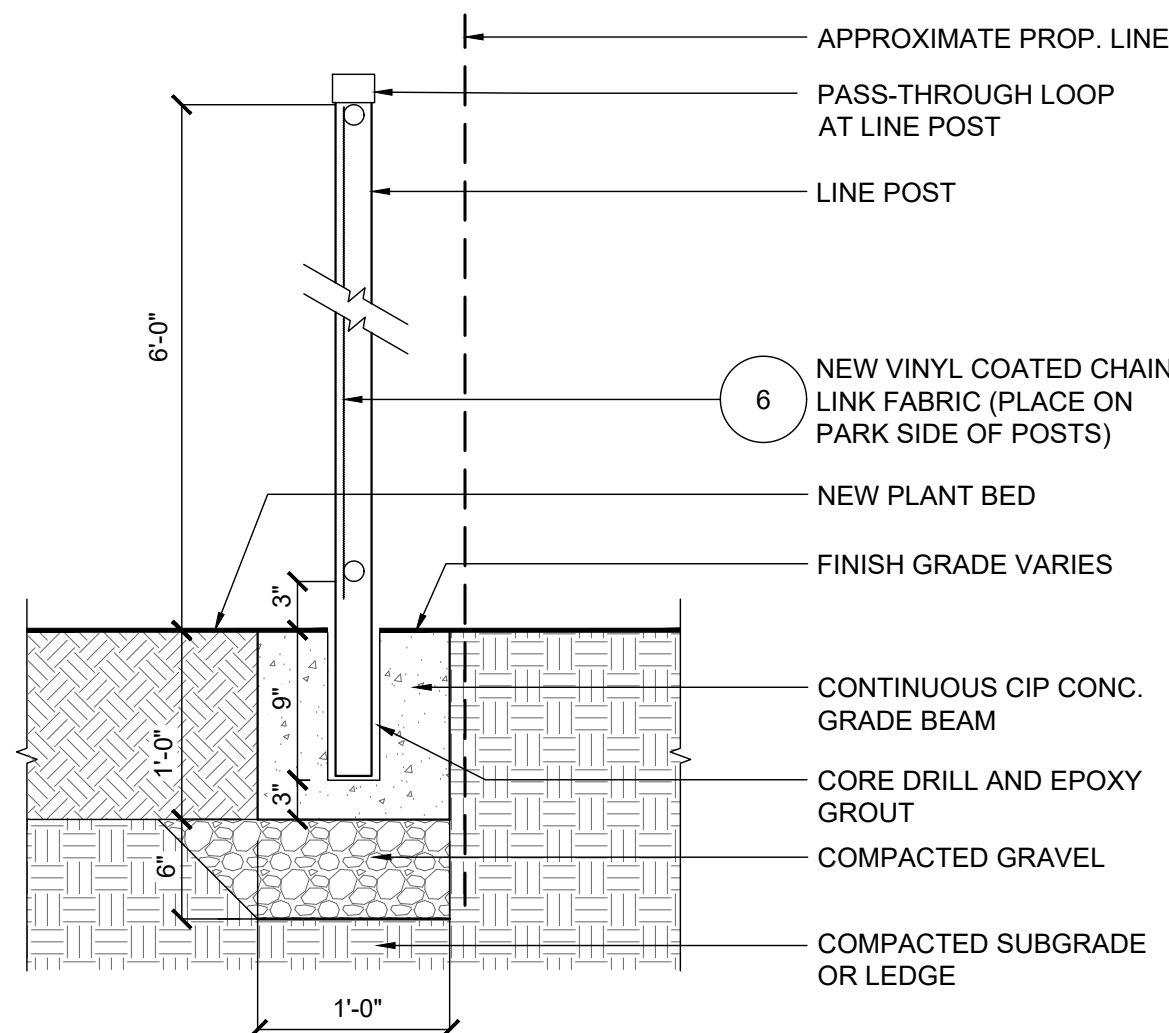
1 **STONE SEAT WALL - SECTION**
SCALE: 1" = 1'-0"



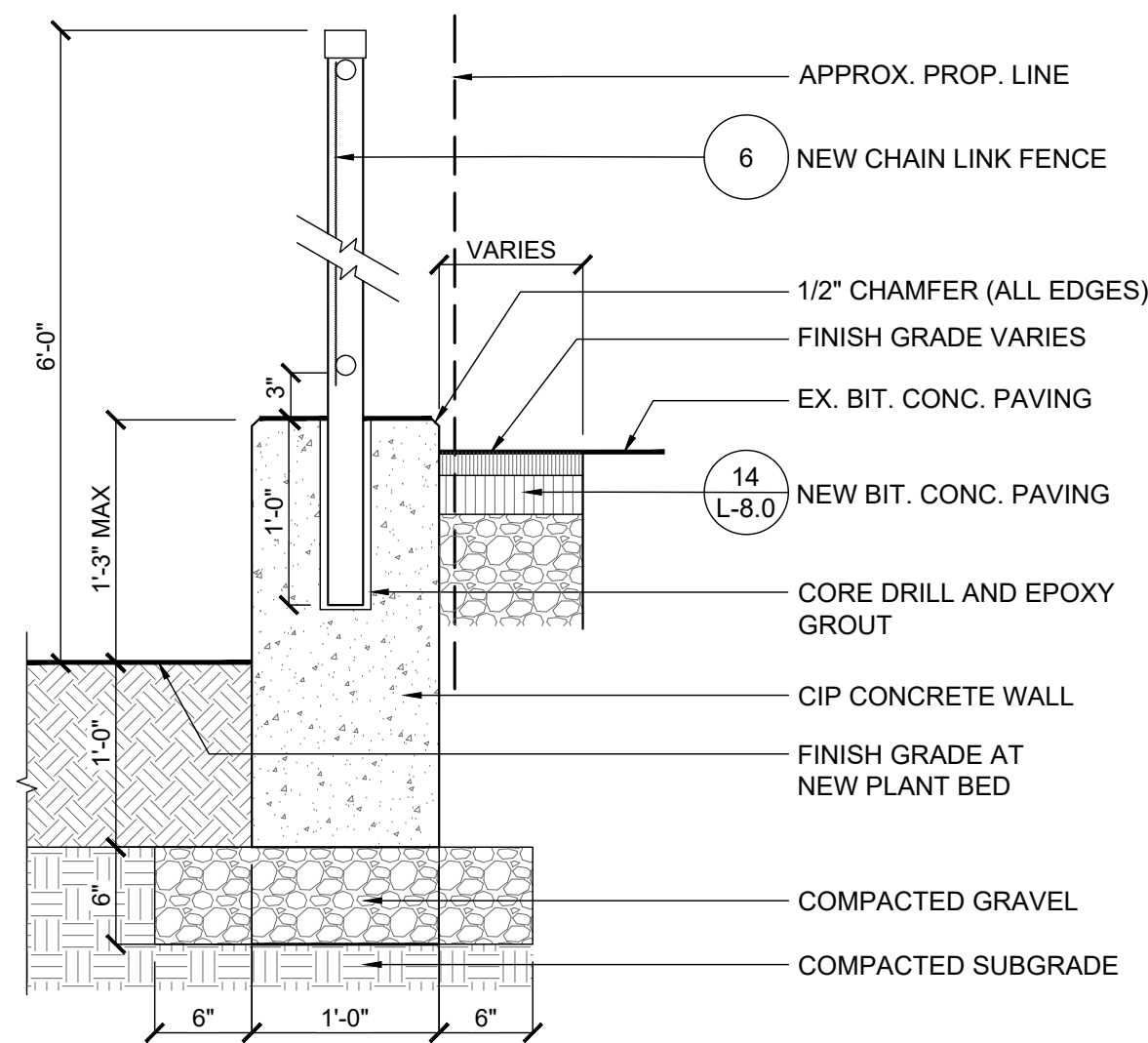
2 **CONCRETE WALL - ELEVATION**
SCALE: 1/2" = 1'-0"



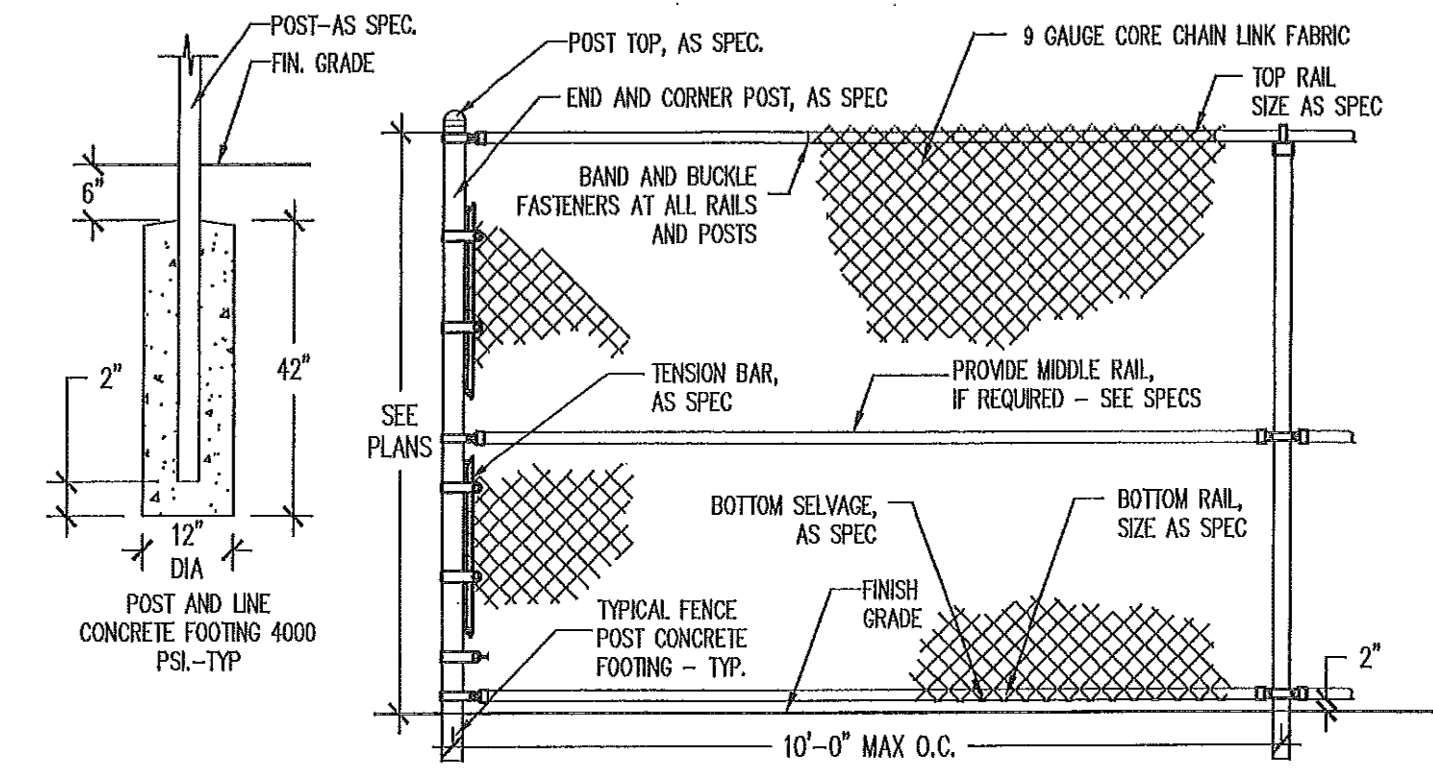
3 **STONE WALL - ELEVATION**
SCALE: 1/2" = 1'-0"



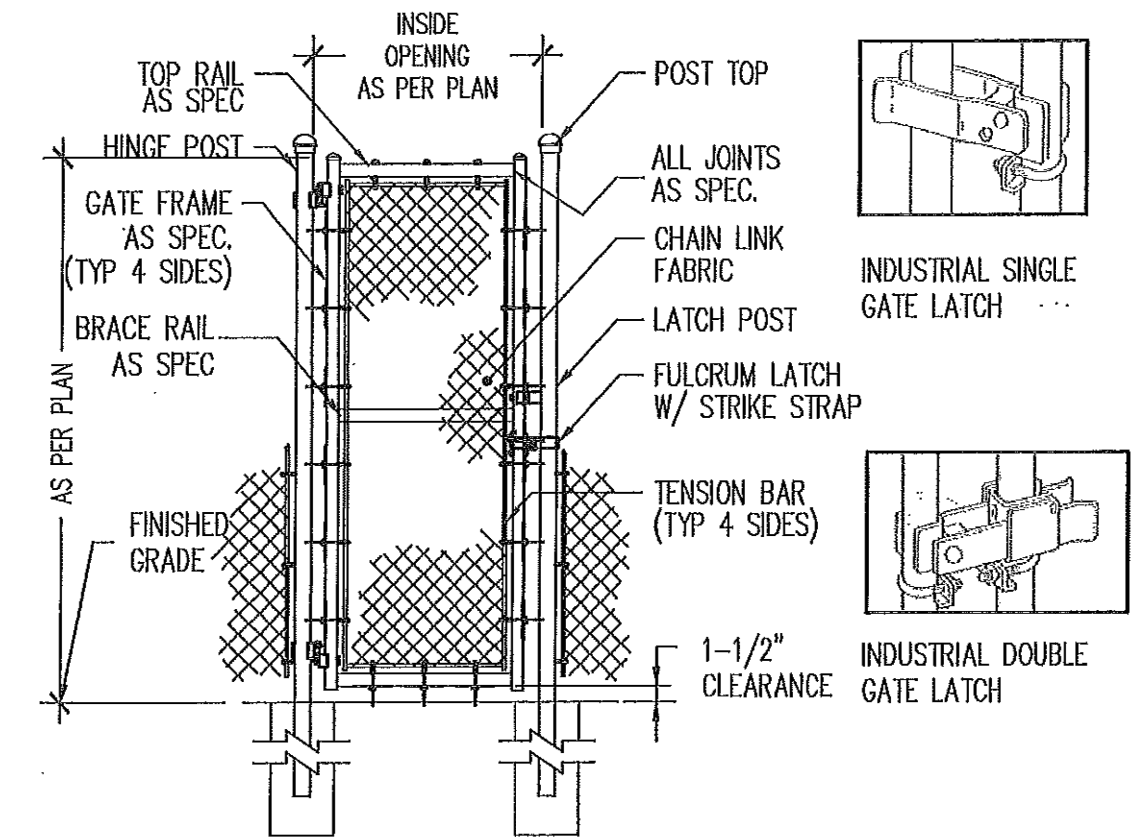
4 **CHAIN LINK FENCE @ GRADE BEAM - SECTION**
SCALE: 1" = 1'-0"



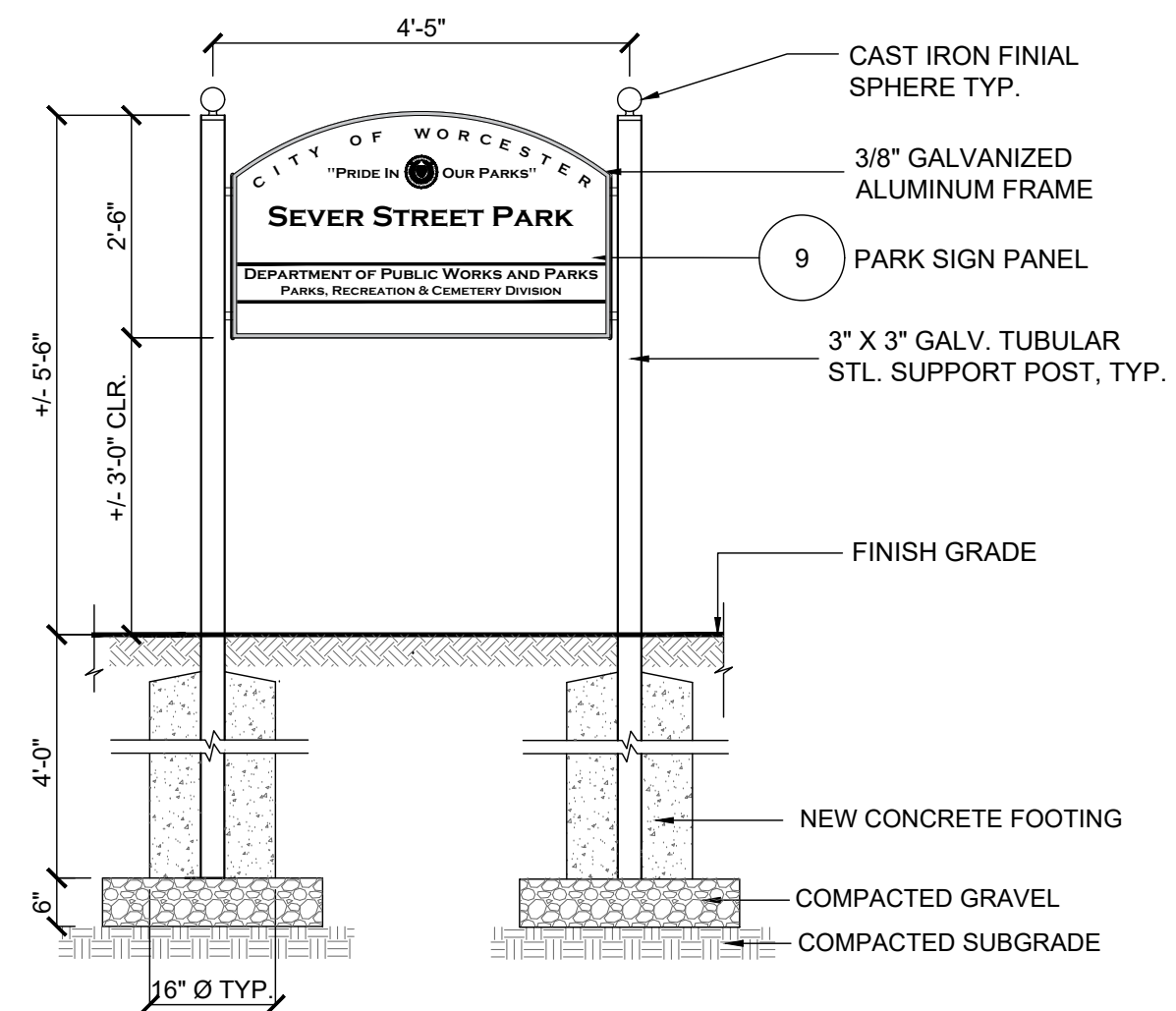
5 **CONCRETE WALL - SECTION**
SCALE: 1/2" = 1'-0"



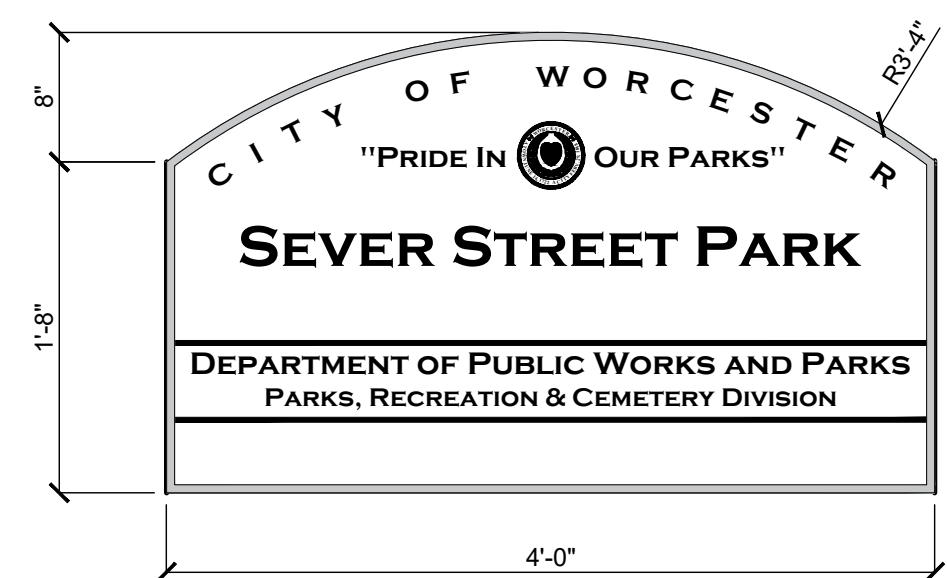
6 **CHAIN LINK FENCE - ELEVATION**
SCALE: 1" = 1'-0"



7 **CHAIN LINK PEDESTRIAN GATE- ELEVATION**
SCALE: 1/2"=1'-0"



8 **PARK SIGN - ELEVATION**
SCALE: 1/2" = 1'-0"



NOTE:
• SEE SPECIFICATIONS FOR SIGN MATERIALS, COMPONENTS, AND METHOD OF FASTENING TO POSTS.

9 **PARK SIGN PANEL - ELEVATION**
SCALE: 1" = 1'-0"



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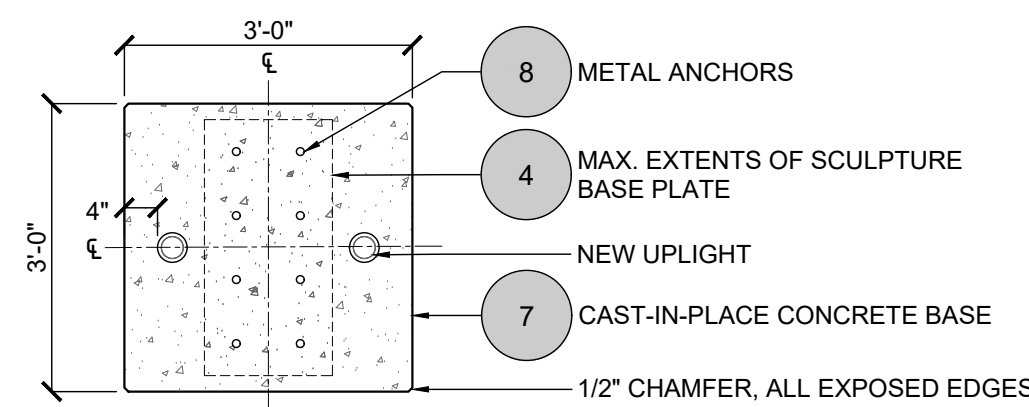
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CKD RD

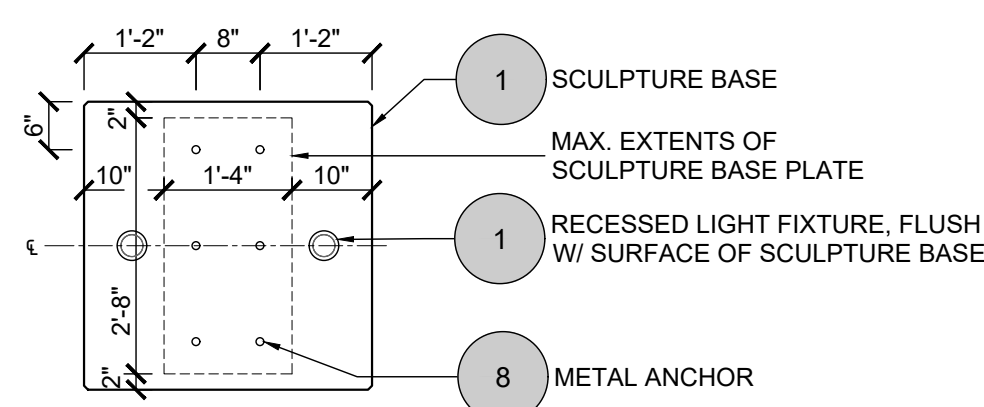
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L-9.0

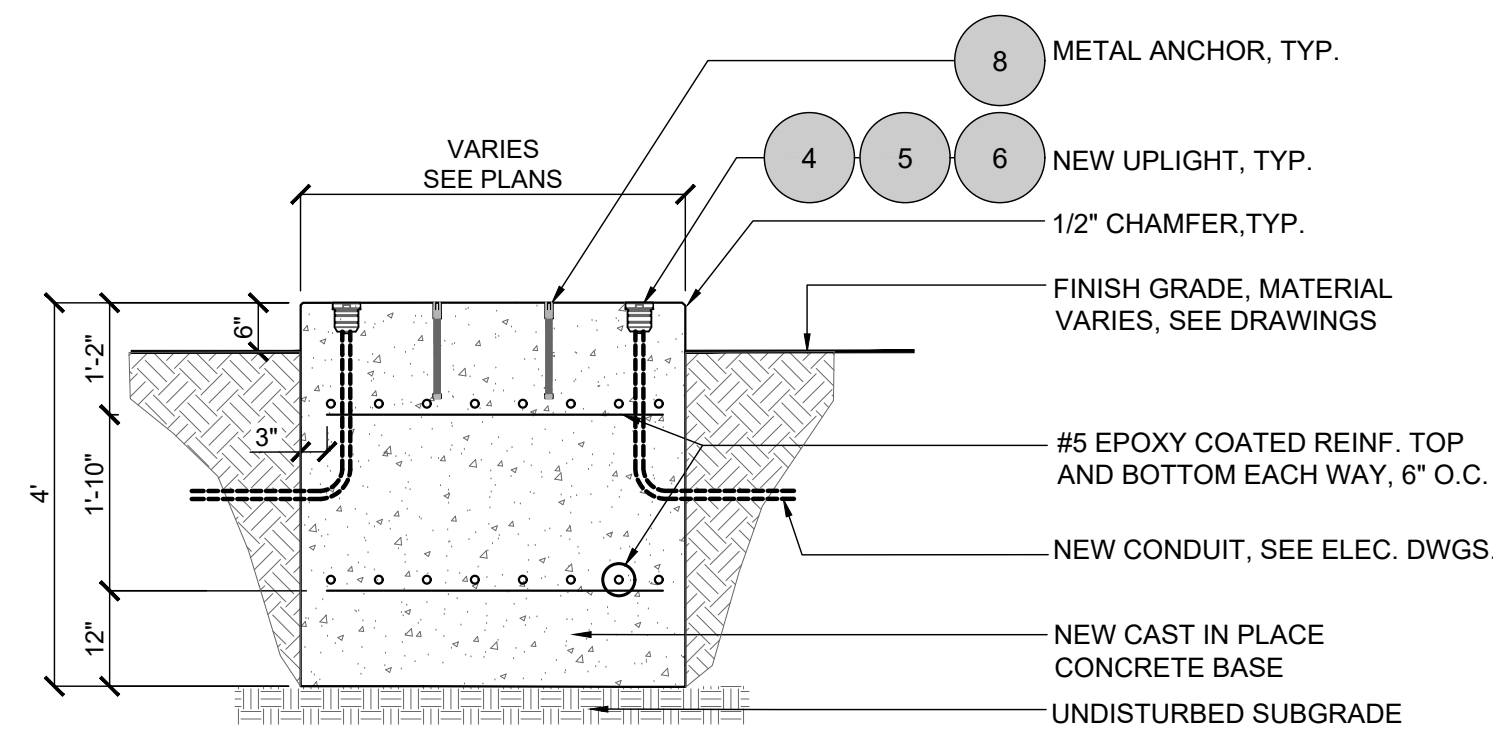
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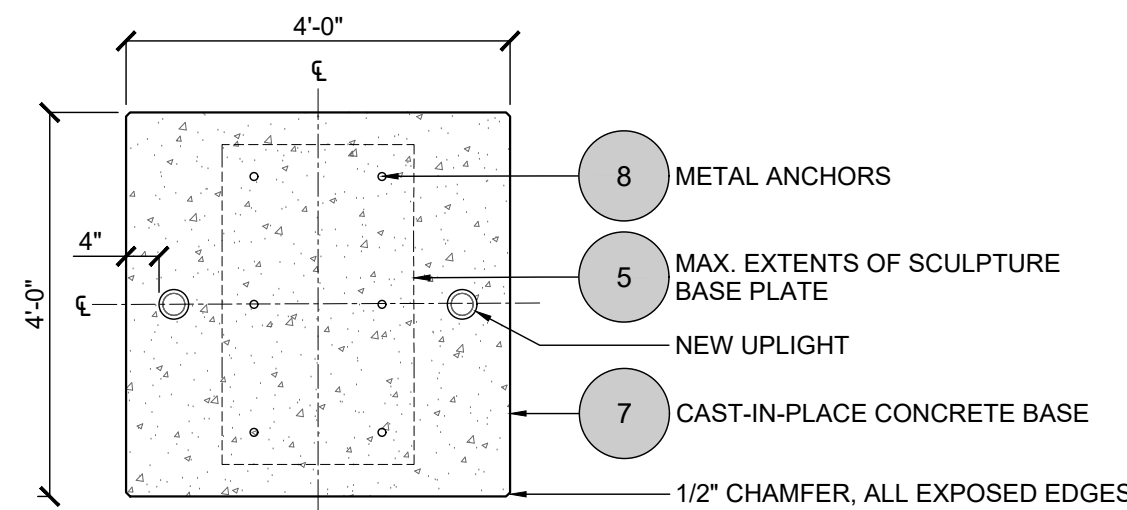
1 SCULPTURE BASE 'A' (3'X3') - PLAN
SCALE: 1/2" = 1'-0"



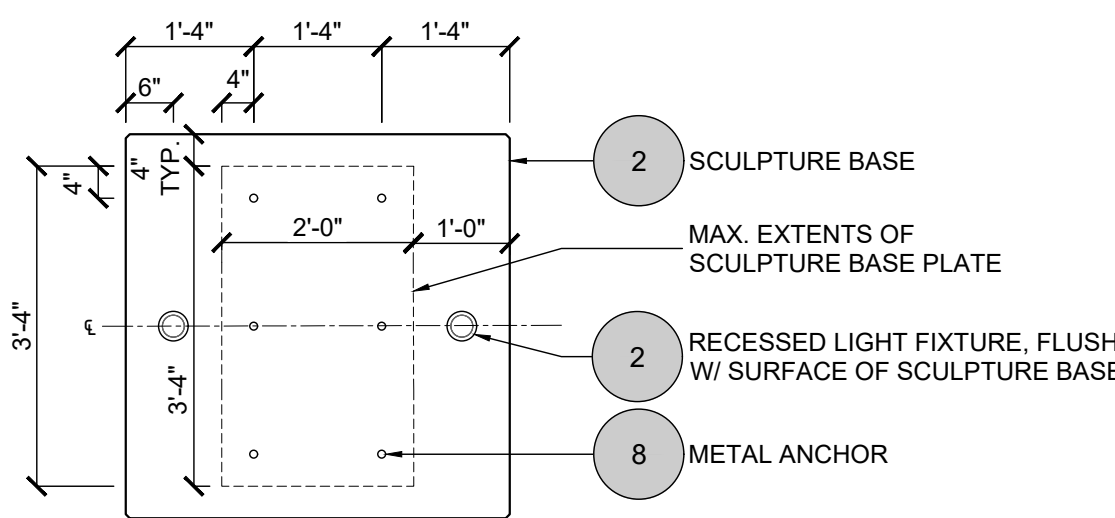
4 SCULPTURE BASE 'A' ANCHOR PATTERN - PLAN
SCALE: 1/2" = 1'-0"



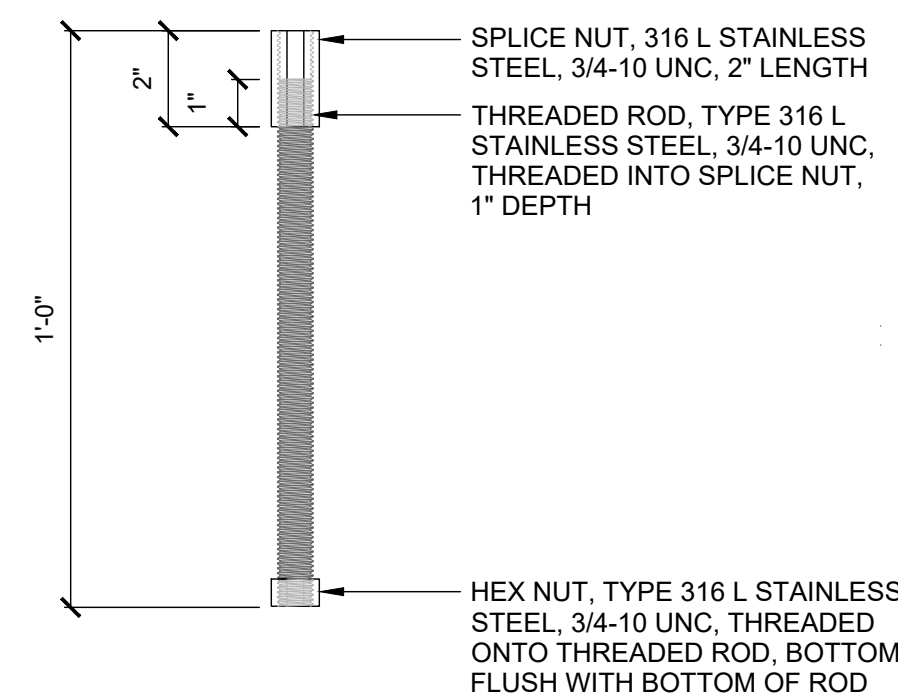
7 SCULPTURE BASE - SECTION
SCALE: 1/2" = 1'-0"



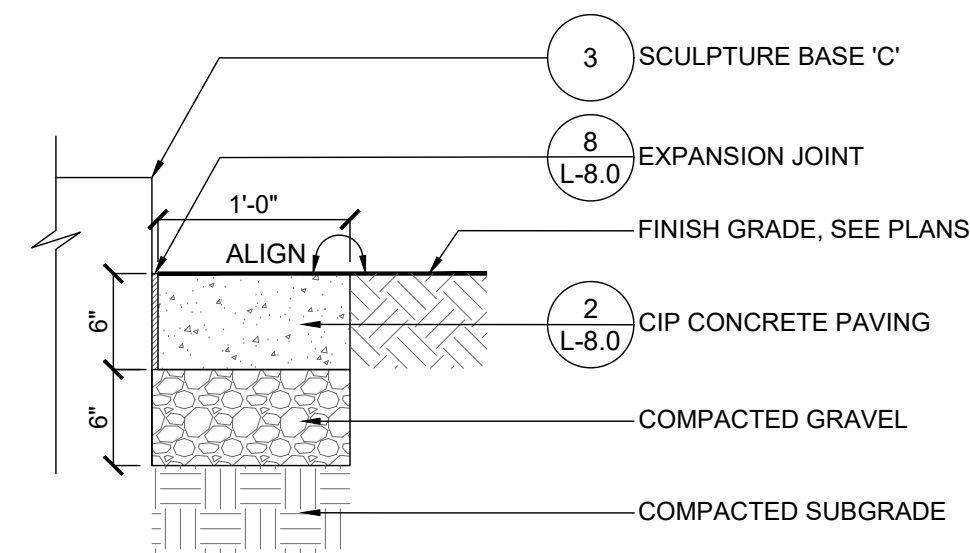
2 SCULPTURE BASE 'B' (4'X4') - PLAN
SCALE: 1/2" = 1'-0"



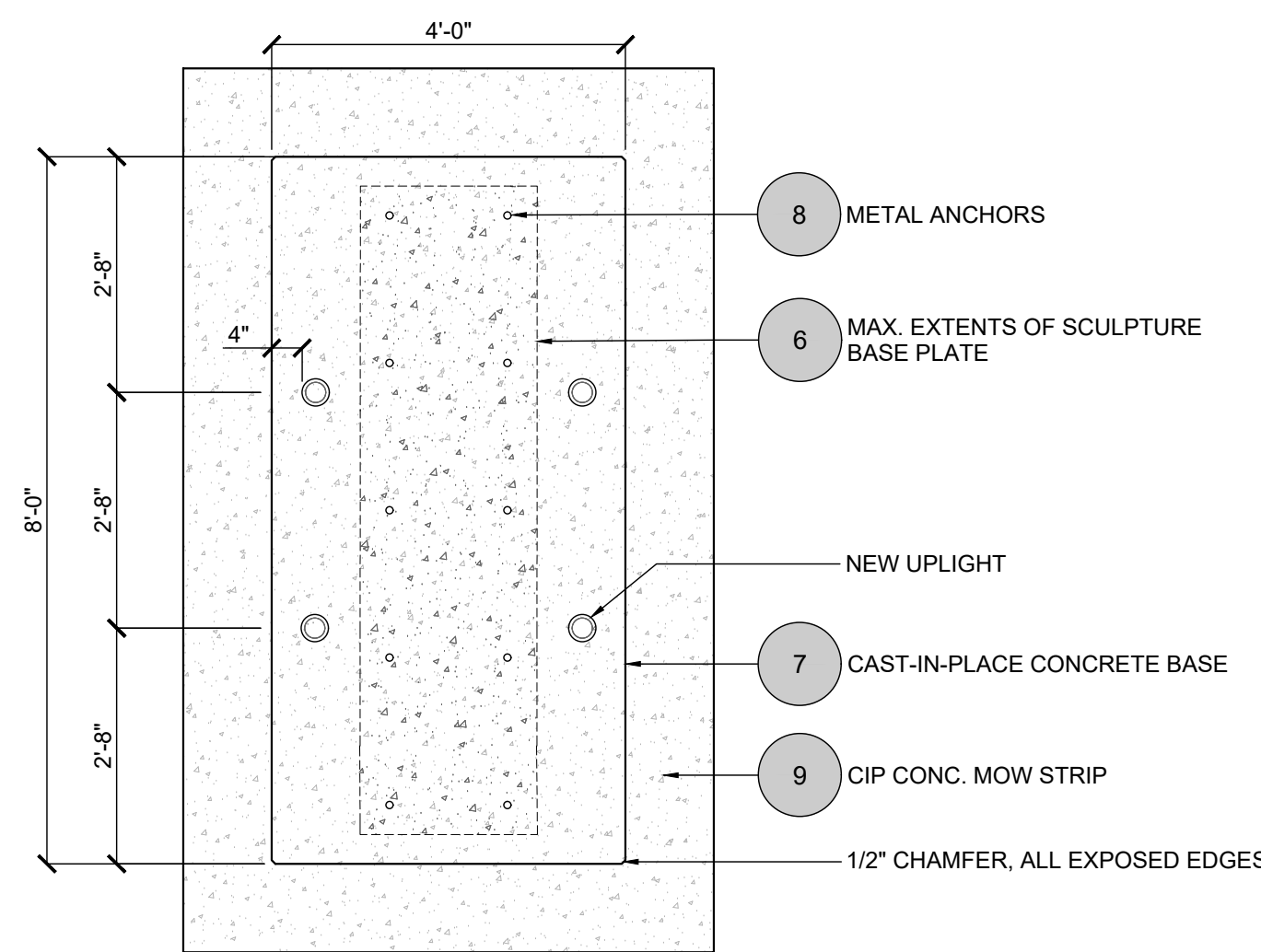
5 SCULPTURE BASE 'B' ANCHOR PATTERN - PLAN
SCALE: 1/2" = 1'-0"



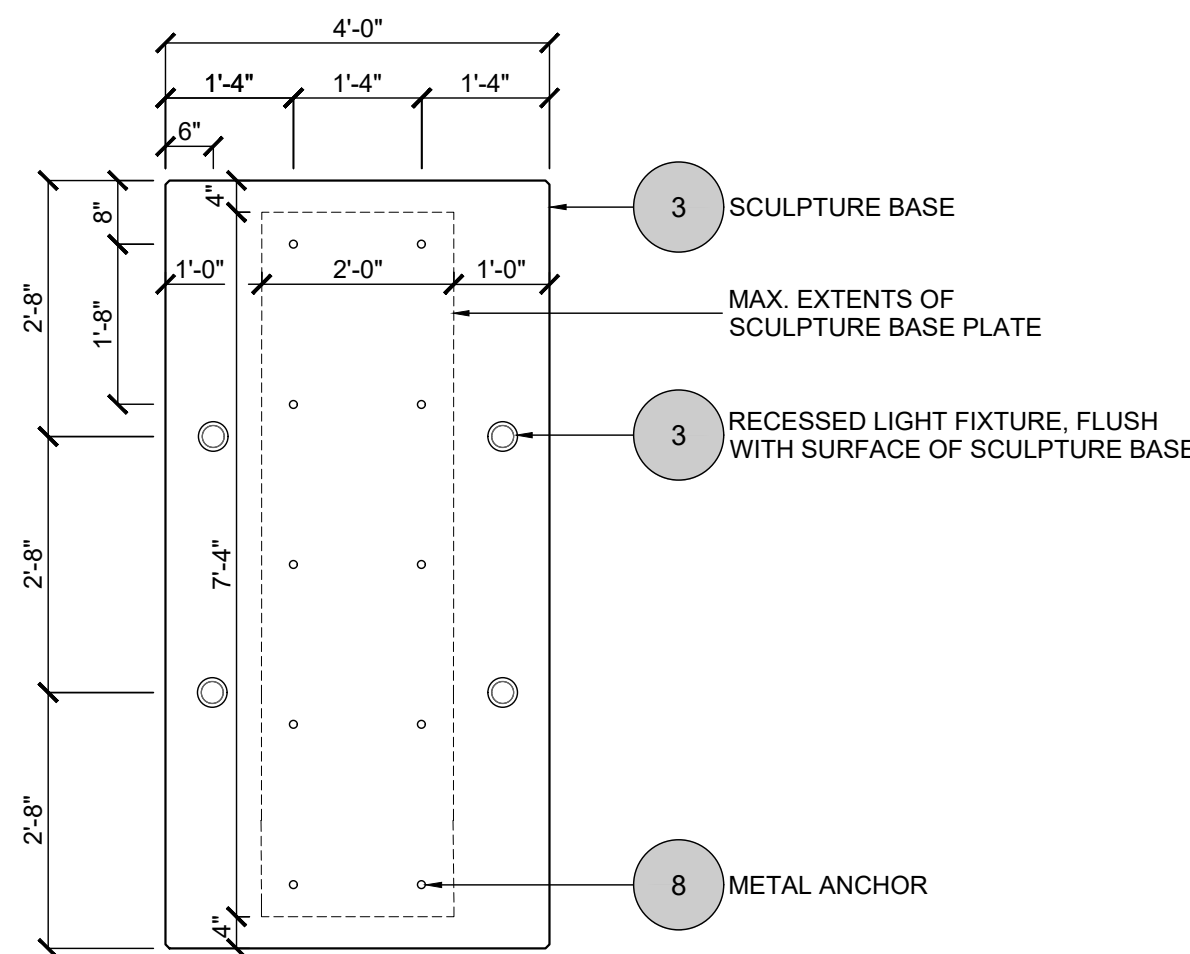
8 METAL ANCHOR - SECTION
SCALE: 3" = 1'-0"



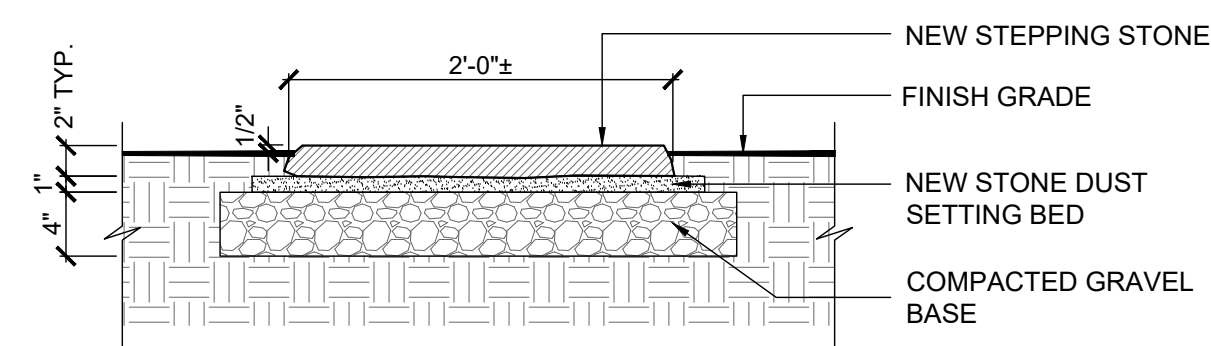
9 CIP CONCRETE MOW STRIP - SECTION
SCALE: 1" = 1'-0"



3 SCULPTURE BASE 'C' (4'X8') - PLAN
SCALE: 1/2" = 1'-0"



6 SCULPTURE BASE 'C' ANCHOR PATTERN - PLAN
SCALE: 1/2" = 1'-0"



10 STEPPING STONES - SECTION
SCALE: 1" = 1'-0"



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CONTRACT NO.

DATE 06.30.23

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SHEET NO.

DEMOLITION NOTES:

1. SITE PREPARATION AND DEMOLITION SHALL INCLUDE THOSE AREAS WITHIN THE LIMIT OF WORK LINE AS SHOWN ON THE CONTRACT DOCUMENTS.
2. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING DEMOLITION.
4. THE CONTRACTOR SHALL COORDINATE SITE DEMOLITION EFFORTS WITH ALL TRADES THAT MAY BE AFFECTED BY THE WORK.
5. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS OR FOUNDATIONS AS REQUIRED TO FACILITATE CONSTRUCTION, AND LEGALLY DISPOSED OF OFFSITE BY CONTRACTOR.
6. UTILITY PIPES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE PLUGGED AT THEIR ENDS WITH WATERTIGHT BRICK MASONRY OR CEMENT MORTAR WITH A MINIMUM THICKNESS OF 8 INCHES.
7. UTILITY PIPES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE COMPLETE REMOVAL AND DISPOSAL OF THE ENTIRE LENGTH OF PIPE AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN THE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
8. UTILITY STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL HAVE THEIR CAST IRON CASTINGS REMOVED AND DISPOSED, INLET AND OUTLET PIPES PLUGGED, THE BOTTOM OF THE STRUCTURES SHALL BE BROKEN, THE VOID OF THE STRUCTURES SHALL BE BACKFILLED AND COMPACTED TO 95% WITH ORDINARY BORROW OR FLOWABLE FILL, AND THE TOP OF THE STRUCTURE SHALL BE REMOVED SO THAT IT IS AT LEAST 36 INCHES BELOW FINISH GRADE.
9. UTILITY STRUCTURES DESIGNATED TO BE REMOVED SHALL CONSIST OF THE REMOVAL AND DISPOSAL OF CAST IRON CASTINGS, PLUGGING OF INLET AND OUTLET PIPES, REMOVAL OF THE STRUCTURE, AND BACKFILL AND 95% COMPACTION OF THE VOID WITH ORDINARY BORROW. WHEN HE VOID IS WITHIN THE FOOTPRINT OF THE NEW BUILDING, GRAVEL BORROW SHALL BE USED TO BACKFILL THE VOID.
10. ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFFSITE.
11. AT ALL LOCATIONS WHERE EXISTING CURBING, CONCRETE PAVEMENT OR BITUMINOUS CONCRETE ROADWAY ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE.
12. EXTEND DESIGNATED LIMIT OF WORK AS NECESSARY TO ACCOMPLISH ROUGH GRADING, EROSION CONTROL, TREE PROTECTION, AND SITE WORK AS REQUIRED BY THESE DRAWINGS AND SPECIFICATIONS.
13. THE CONTRACTOR SHALL REMOVE FROM THE SITE ALL RUBBISH AND DEBRIS FOUND THEREON. STORAGE OF SUCH MATERIALS ON THE PROJECT SITE WILL NOT BE PERMITTED. THE CONTRACTOR SHALL LEAVE THE SITE IN SAFE, CLEAN, AND LEVEL CONDITION UPON COMPLETION OF THE SITE DEMOLITION WORK.
14. REMOVE AND STOCKPILE ALL EXISTING SITE LIGHTS, BENCHES, TRASH RECEPTACLES, TRAFFIC SIGNS, GRANITE CURB, AND OTHER SITE IMPROVEMENTS WITHIN LIMIT OF WORK LINE UNLESS OTHERWISE NOTED.
15. ALL EXISTING TREES AND SHRUBS TO REMAIN SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE TIME OF CONSTRUCTION, AS SPECIFIED AND DIRECTED BY THE LANDSCAPE ARCHITECT.
16. BEFORE ANY TREES OR SHRUBS ARE REMOVED, THE CONTRACTOR SHALL ARRANGE A CONFERENCE ON THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO IDENTIFY TREES AND SHRUBS THAT ARE TO BE REMOVED, AS WELL AS THOSE WHICH ARE TO BE PROTECTED. DO NOT COMMENCE CLEARING OPERATIONS WITHOUT A CLEAR UNDERSTANDING OF EXISTING CONDITIONS TO BE PRESERVED.
17. THE CONTRACTOR SHALL REMOVE FROM THE AREA OF CONSTRUCTION PAVEMENT, CONCRETE, CURBING, POLES AND FOUNDATIONS, ISLANDS, TREE BERMS AND OTHER FEATURES WITHIN THE LIMITS OF CONSTRUCTION AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WHETHER SPECIFIED ON THE DRAWINGS OR NOT.

UTILITY NOTES:

1. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF PERMITS BY, THE LOCAL MUNICIPALITY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS RELATED TO UTILITY WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMISSIONS FOR, AND FOR CONDUCTING ALL PREPARATIONS RELATED TO, WORK AFFECTING ANY UTILITIES WITHIN THE JURISDICTION OF ANY NON-MUNICIPAL UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO ELECTRIC, TELEPHONE, AND/OR GAS. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENTS, AND UTILITY COMPANIES, IN WRITING, AT LEAST 7 DAYS (OR PER UTILITY COMPANY REQUIREMENT) AND NOT MORE THAN 30 DAYS PRIOR TO ANY CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN UTILITIES SERVICING BUILDINGS AND FACILITIES WITHIN OR OUTSIDE THE PROJECT LIMIT UNLESS THE INTERRUPTION OF SERVICE IS COORDINATED WITH THE OWNER.
4. ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE LOCAL MUNICIPALITY.
5. GAS, TELECOMMUNICATIONS AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING CONSULTANTS.
6. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES OF NEW UTILITIES WITH GAS, TELECOMMUNICATION AND ELECTRICAL SERVICES.
7. INSTALL WATER LINES WITH A MINIMUM OF FIVE FEET OF COVER AND A MAXIMUM OF SEVEN FEET COVER FROM THE FINAL DESIGN GRADES.
8. MAINTAIN 10 FEET HORIZONTAL SEPARATION AND 18 INCHES VERTICAL SEPARATION (WATER OVER SEWER) BETWEEN SEWER AND WATER LINES. WHEREVER THERE IS LESS THAN 10 FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION BETWEEN A PROPOSED OR EXISTING SEWER LINE TO REMAIN AND A PROPOSED OR EXISTING WATER LINE TO REMAIN BOTH WATER MAIN AND SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT CEMENT LINED DUCTILE IRON PIPE FOR A DISTANCE OF 10- FEET ON EITHER SIDE OF THE CROSSING. ONE (1) FULL LENGTH OF WATER PIPE SHALL BE CENTERED OVER THE SEWER AT THE CROSSING.
9. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED AND/OR REMOVED & DISPOSED.
10. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR TRENCHING, BACKFILLING, AND SURFACE RESTORATION FOR GAS UTILITY SYSTEMS.
11. ALL ONSITE UTILITIES SHALL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
12. ALL EXISTING AND PROPOSED MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, CASTINGS, ETC. SHALL BE RAISED TO FINISHED GRADE PRIOR TO FINAL GRADING AND PAVING CONSTRUCTION.
13. ALL GRATES IN WALKWAYS SHALL BE ADA COMPLIANT.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" PREPARED BY DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF RESOURCE PROTECTION, AND THE CURRENT NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
2. MEANS OF EROSION AND SEDIMENT PROTECTION AS NOTED ON THE DRAWINGS INDICATE MINIMUM RECOMMENDED PROVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL SELECTION AND PLACEMENT OF EROSION AND SEDIMENTATION CONTROLS BASED ON ACTUAL SITE CONDITIONS AND CONSTRUCTION CONDITIONS. ADDITIONAL MEANS OF PROTECTION SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED FOR CONTINUED OR UNFORESEEN EROSION PROBLEMS, OR AS DIRECTED BY CONTROLLING MUNICIPAL AUTHORITIES, AT NO ADDITIONAL EXPENSE TO THE OWNER.
3. AN EROSION CONTROL BARRIER SHALL BE INSTALLED ALONG THE EDGE OF PROPOSED DEVELOPMENT AS INDICATED IN THE PLAN PRIOR TO COMMENCEMENT OF DEMOLITION OR CONSTRUCTION OPERATIONS.
4. SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF AND DURING ALL PHASES OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO AND IMMEDIATELY AFTER ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON THE SITE.
5. AFTER ANY SIGNIFICANT RAINFALL (GREATER THAN 0.25 INCHES OF RAINFALL WITHIN 24 HOURS), SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED FOR INTEGRITY. ANY DAMAGE SHALL BE CORRECTED IMMEDIATELY.
6. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES SHALL BE PROVIDED TO ENSURE THAT THE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT LEAVING THE LIMIT OF WORK. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SEDIMENT FROM ENTERING ANY STORM DRAINAGE SYSTEM AND FROM BEING CONVEYED TO ANY WETLAND RESOURCE AREA, PUBLIC WAYS, ABUTTING PROPERTY, OR OUTSIDE OF THE PROJECT LIMITS.
8. THE CONTRACTOR SHALL PROTECT ALL DRAINAGE SWALES AND GROUND SURFACES WITHIN THE LIMIT OF WORK FROM EROSION CONDITIONS. STRAW BALE, CRUSHED STONE OR EQUIVALENT CHECK DAMS ARE TO BE PROVIDED AT A MAXIMUM OF TWO HUNDRED (200) FOOT SPACING, OR LESS AS SITE-SPECIFIC CONDITIONS WARRANT, WITHIN ALL DRAINAGE SWALES AND DITCHES AND AT UPSTREAM SIDES OF ALL DRAINAGE INLETS.
9. ALL STOCK PILES SHALL BE PROTECTED AND LOCATED A MINIMUM OF 100' FROM EXISTING WETLAND RESOURCE AREAS & WITHIN THE LIMIT OF WORK.
10. ANY SEDIMENT TRACKED ONTO PAVED AREAS SHALL BE SWEEPED AT THE END OF EACH WORKING DAY.
11. ALL SEDIMENT RETAINED BY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LEGALLY DISPOSED OF OFFSITE.
12. TEMPORARY DIVERSION DITCHES, PERMANENT DITCHES, CHANNELS, EMBANKMENTS, AND ANY DENUED SURFACE THAT WILL BE EXPOSED FOR A PERIOD OF 14 CALENDAR DAYS OR MORE SHALL BE CONSIDERED CRITICAL VEGETATION AREAS. THESE AREAS SHALL BE STABILIZED/PROTECTED WITH APPROPRIATE EROSION CONTROL MATTING OR OTHER EROSION CONTROL METHODS.
13. DUST SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS AS DIRECTED BY THE PERMITTING AUTHORITY OR OWNER.
14. THE CONTRACTOR SHALL USE TEMPORARY SEEDING, MULCHING, OR OTHER APPROVED STABILIZATION MEASURES TO PROTECT EXPOSED AREAS DURING PROLONGED CONSTRUCTION OR OTHER LAND DISTURBANCE. STOCKPILES THAT WILL BE EXPOSED FOR LONGER THAN 14 DAYS SHALL BE STABILIZED.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS AT THE COMPLETION OF SITE CONSTRUCTION, BUT ONLY WHEN DIRECTED BY THE CITY/TOWN OF WORCESTER CONSERVATION AGENT. STABILIZE OR SEED BARE AREAS LEFT AFTER EROSION CONTROL REMOVAL.

EARTH MOVING AND GRADING NOTES:

1. ALL TOPSOIL ENCOUNTERED WITHIN THE WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE. EXCESS TOPSOIL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED BY THE OWNER. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.
2. GRADES WITHIN HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1.5% IN ANY DIRECTION.
3. CROSS SLOPES OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 1.5%.
4. RUNNING SLOPE OF ALL PEDESTRIAN WALKS SHALL NOT EXCEED 4.5%, UNLESS OTHERWISE NOTED.
5. THE CONTRACTOR SHALL EXERCISE CAUTION IN ALL EXCAVATION ACTIVITY DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES.
6. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1% UNLESS OTHERWISE NOTED.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM FACE OF BUILDINGS AT ALL LOCATIONS.
8. PITCH EVENLY BETWEEN CONTOUR LINES AND BETWEEN SPOT GRADES. SPOT GRADE ELEVATIONS TAKE PRECEDENCE OVER CONTOUR LINES.
9. ALL PROPOSED TOP OF CURB ELEVATIONS ARE SIX INCHES (6") ABOVE BOTTOM OF CURB ELEVATIONS UNLESS OTHERWISE NOTED. ALL PROPOSED TOP OF CAPE COD BERM ELEVATIONS ARE FOUR INCHES (4") ABOVE BOTTOM OF CURB ELEVATION UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL BLEND NEW GRADING SMOOTHLY INTO EXISTING GRADING AT LIMITS OF GRADING.
11. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING PAVING WITH SMOOTH TRANSITION BETWEEN EXISTING AND NEW SURFACES.
12. THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
13. PITCH TOPS OF ALL WALLS AT ONE-EIGHTH INCH (1/8") PER FOOT FROM BACK OF WALL TO FACE OF WALL.
14. SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE. REFER TO EARTHWORK SPECIFICATIONS.
15. ANY AREAS OUTSIDE OF THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED BY THE CONTRACTOR TO THE PRE-CONSTRUCTION CONDITION/GRADE AT NO COST TO THE OWNER.
16. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST

GENERAL NOTES:

1. TOPOGRAPHIC DATA, PROPERTY LINE INFORMATION, AND EXISTING SITE FEATURES WERE OBTAINED FROM A PLAN ENTITLED "EXISTING CONDITIONS", PREPARED BY NITSCH ENGINEERING., DATED 02/22/2023.
2. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) NO. 25027C0618E. THE SITE IS IN ZONE X.
3. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
4. THE CONTRACTOR SHALL COMPLY WITH MASSACHUSETTS GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS.
6. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRESENCE AND LOCATIONS OF ALL UTILITIES WITHIN THE LIMIT OF WORK MUST BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND CONTACTING THE CONTROLLING AUTHORITIES AND/OR UTILITY COMPANIES RELATIVE TO THE LOCATIONS AND ELEVATIONS OF THEIR LINES. THE CONTRACTOR SHALL KEEP A RECORD OF ANY DISCREPANCIES OR CHANGES IN THE LOCATIONS OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND NITSCH ENGINEERING. ANY DAMAGE RESULTING FROM THE FAILURE OF THE CONTRACTOR TO MAKE THESE DETERMINATIONS AND CONTACTS SHALL BE BORNE BY THE CONTRACTOR.
7. THE CONTRACTOR SHALL, THROUGHOUT CONSTRUCTION, TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS AND SITE DETAILS OUTSIDE OF THE LIMIT OF WORK AS DEFINED ON THE DRAWINGS AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.
9. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE AND CONSTRUCTION DOCUMENTS TO DEVELOP A THOROUGH UNDERSTANDING OF THE PROJECT, INCLUDING ANY SPECIAL CONDITIONS AND CONSTRAINTS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PROJECT SITE AND TO VERIFY ALL CONDITIONS IN THE FIELD AND REPORT DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATION IMMEDIATELY.
11. THE CONTRACTOR SHALL CONDUCT ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE ESTABLISHMENT AND USE OF ALL VERTICAL AND HORIZONTAL CONSTRUCTION CONTROLS.
13. ELEVATIONS REFER TO NAVD88.
14. THE CONTRACTOR SHALL COMPLY WITH THE ORDER OF CONDITIONS DATED JUNE 5, 2023 AND ISSUED BY THE WORCESTER CONSERVATION COMMISSION (CC-2023-028).
15. FOR SOIL INFORMATION REFER TO GEOTECHNICAL REPORT.

PROPOSED LEGEND

- LIMIT OF WORK
- //--

EXISTING UTILITY TO BE ABANDONED, REMOVED AND DISPOSED IF IN CONFLICT WITH NEW SITE IMPROVEMENTS, OR AS INDICATED ON DRAWINGS
- EROSION CONTROL BARRIER
- x--x--

CONSTRUCTION FENCE
- W

DOMESTIC WATER PIPE
- FP

FIRE PROTECTION PIPE
- D

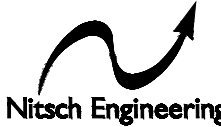
STORM DRAIN PIPE
- INLET PROTECTION
- AREA DRAIN
- ACCESS BASIN
- CATCH BASIN

ABBREVIATIONS

- AB ACCESS BASIN
- AD AREA DRAIN
- BW BOTTOM OF WALL ELEVATION
- CB CATCH BASIN
- DMH DRAIN MANHOLE
- INV INVERT ELEVATION
- LOW LIMIT OF WORK
- LP LOW POINT
- M&P MAINTAIN AND PROTECT
- PVC POLYVINYL CHLORIDE PIPE
- RIM RIM ELEVATION
- TW TOP OF WALL ELEVATION
- TYP TYPICAL

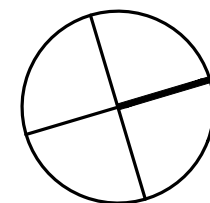


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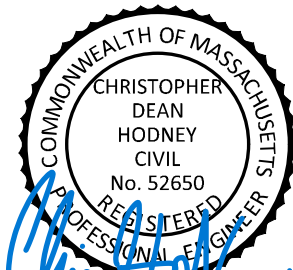


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PROJECT

NOTES, LEGENDS, &
ABBREVIATIONS

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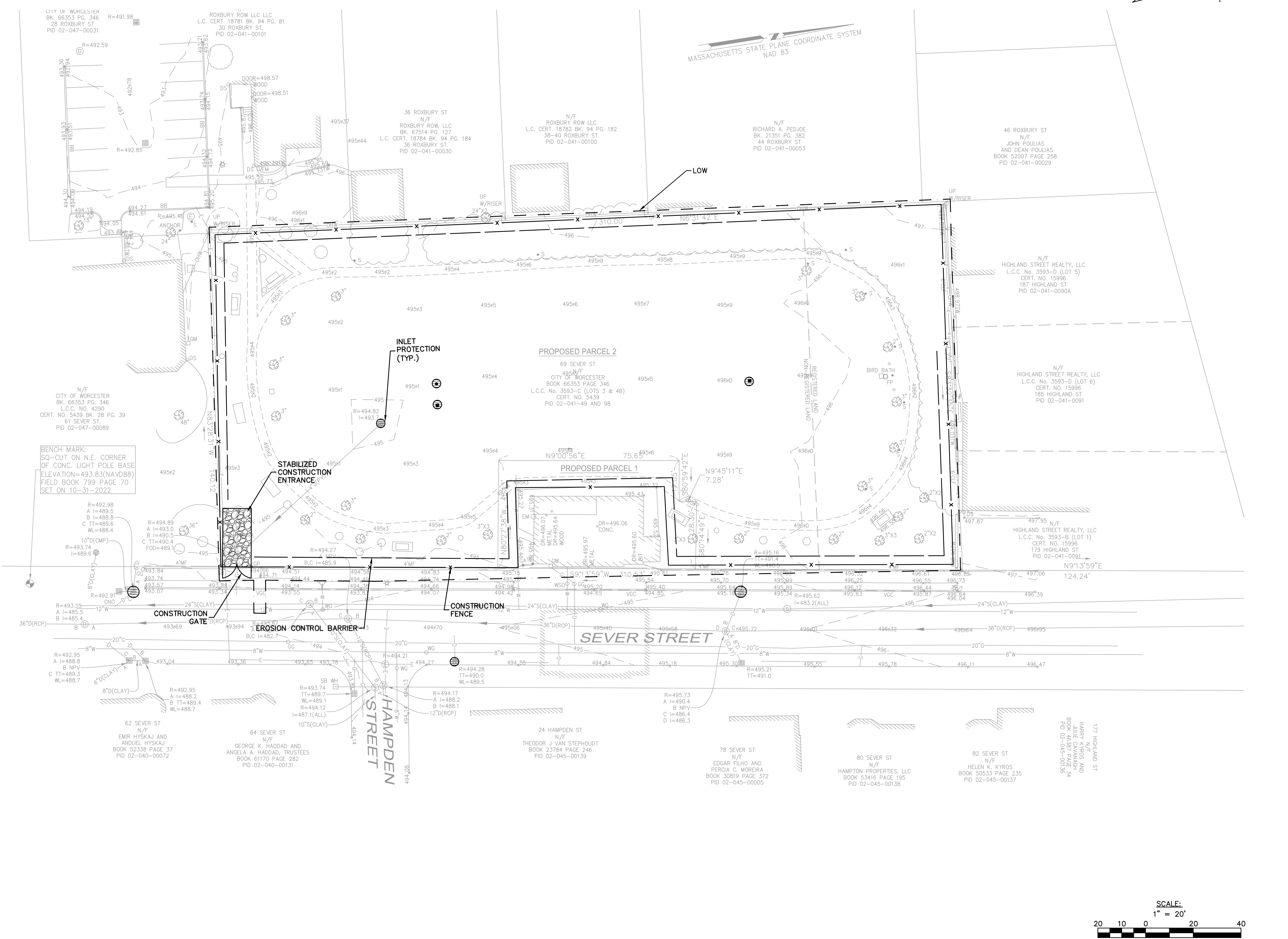
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06.30.23	BID DOCUMENTS
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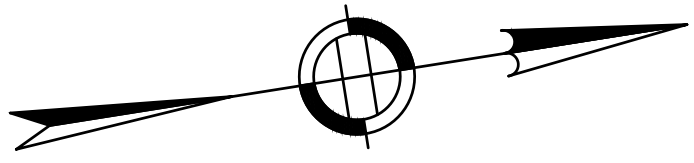
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SEVER STREET PARK
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PROJECT

EROSION & SEDIMENTATION CONTROL PLAN

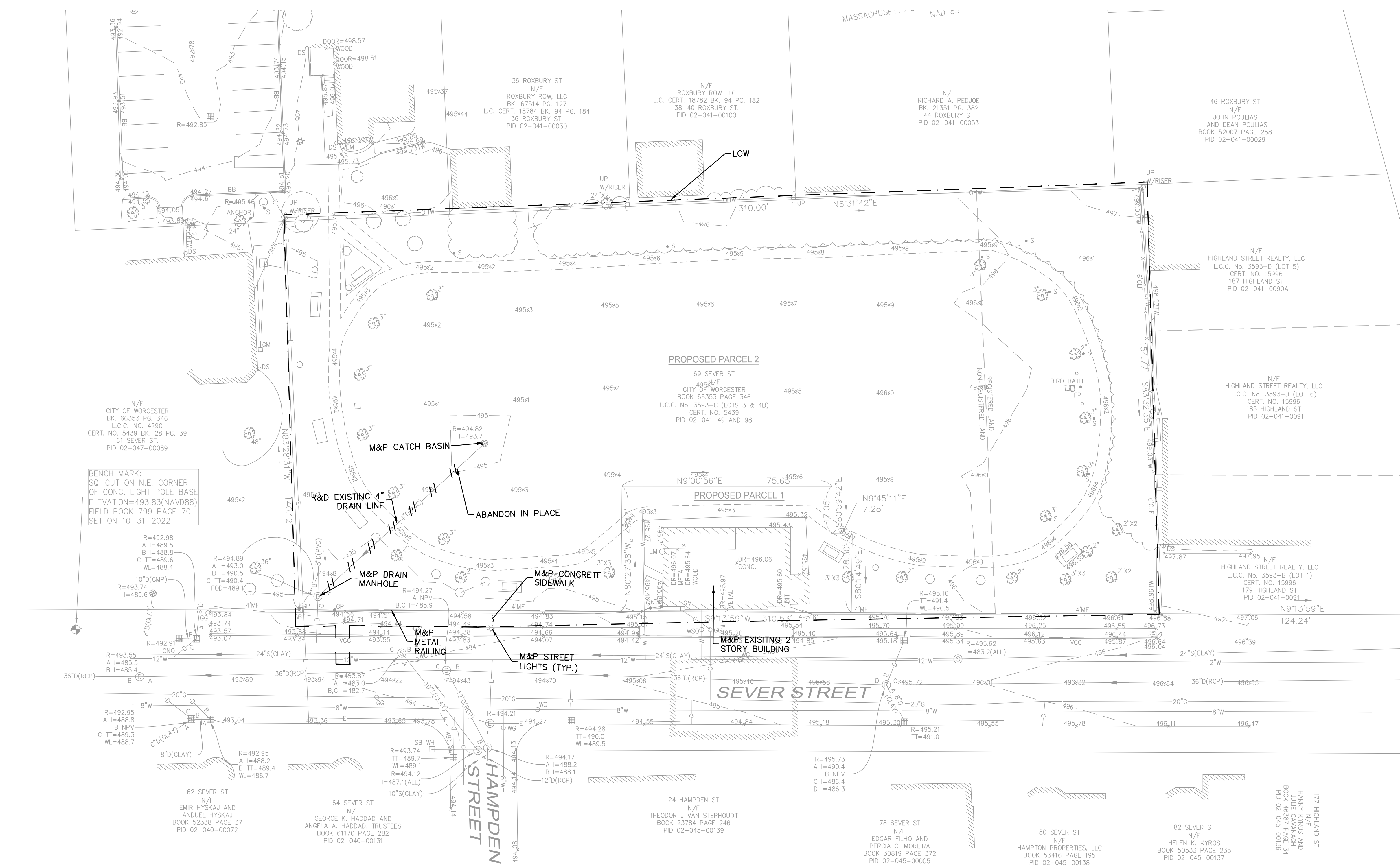
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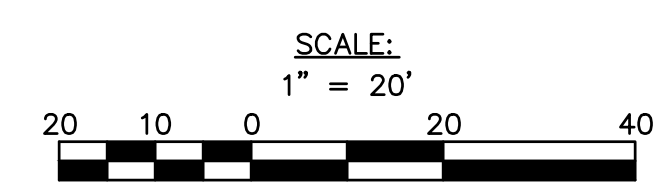
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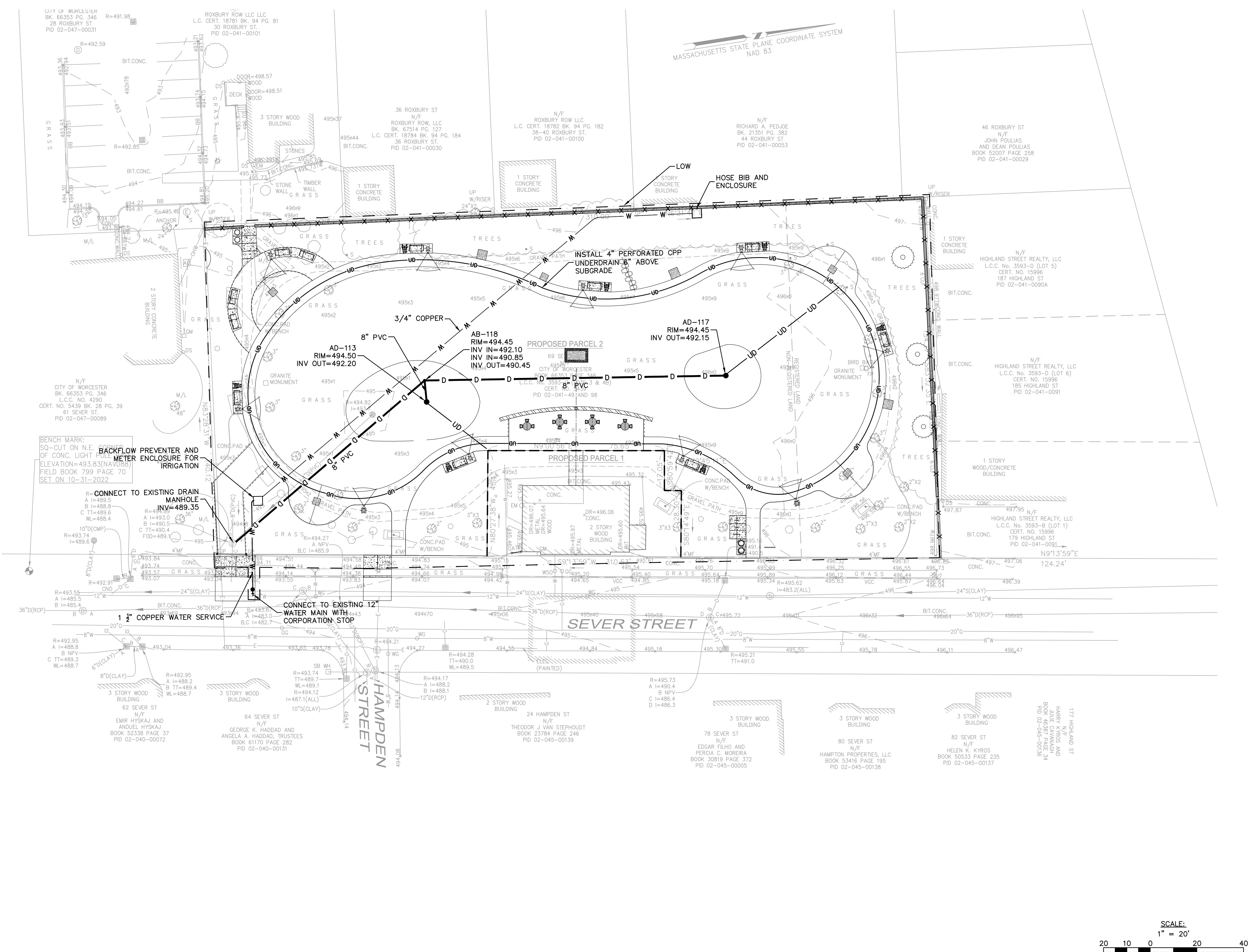
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PROJECT

DEMOLITION PLAN

DRAWING TITLE	
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CKD	CDH
SCALE	AS SHOWN
SHEET NO.	C-300





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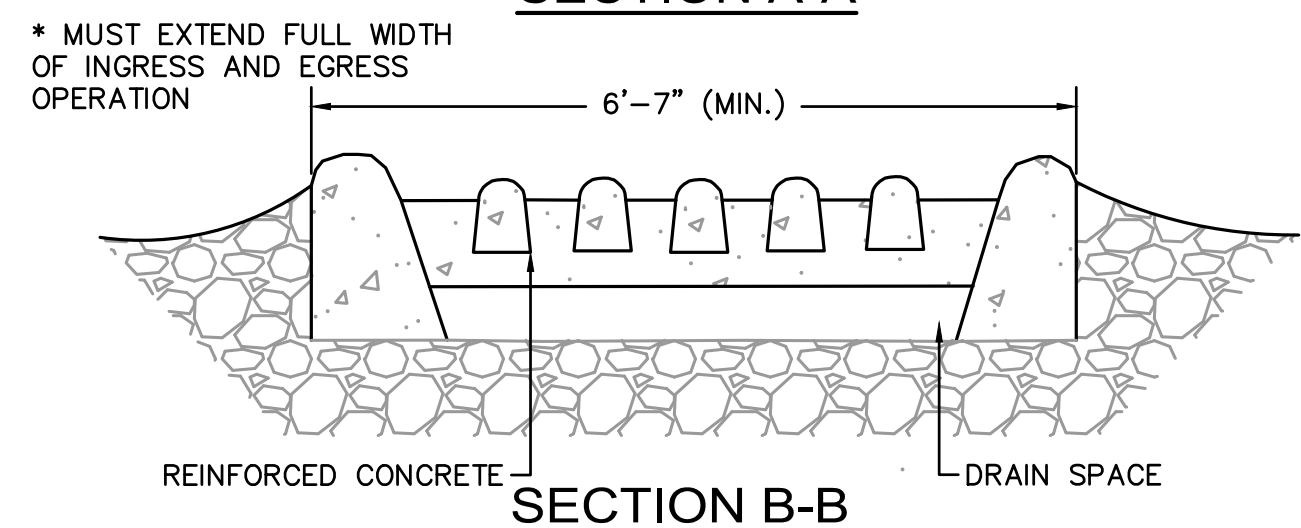
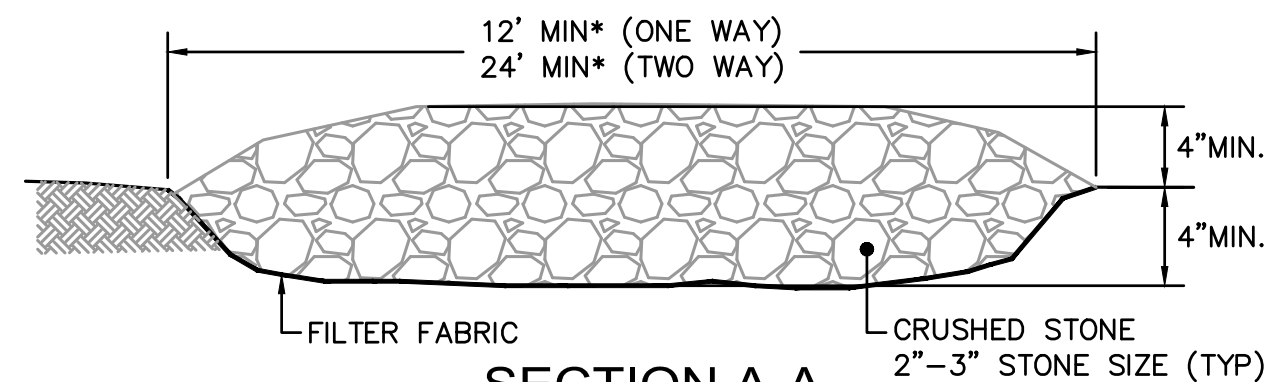
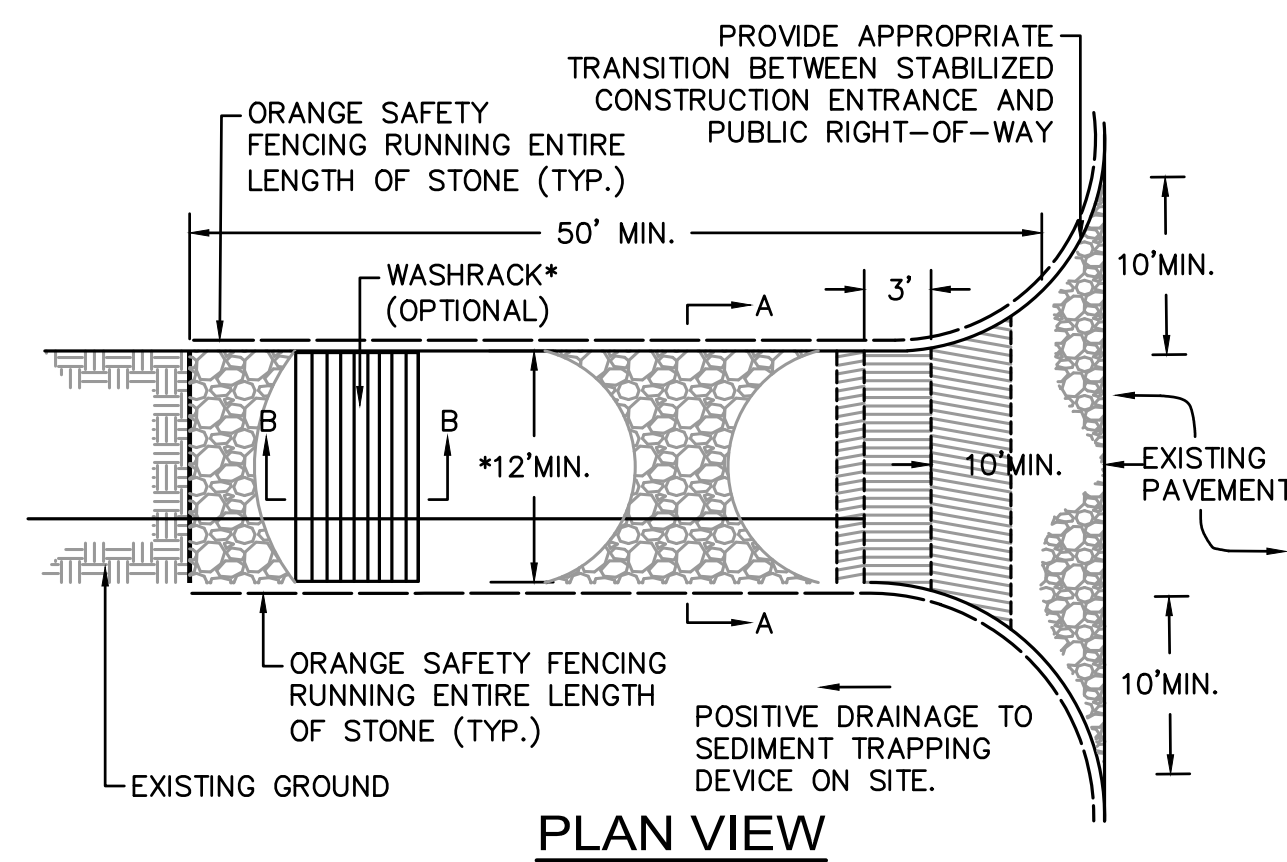
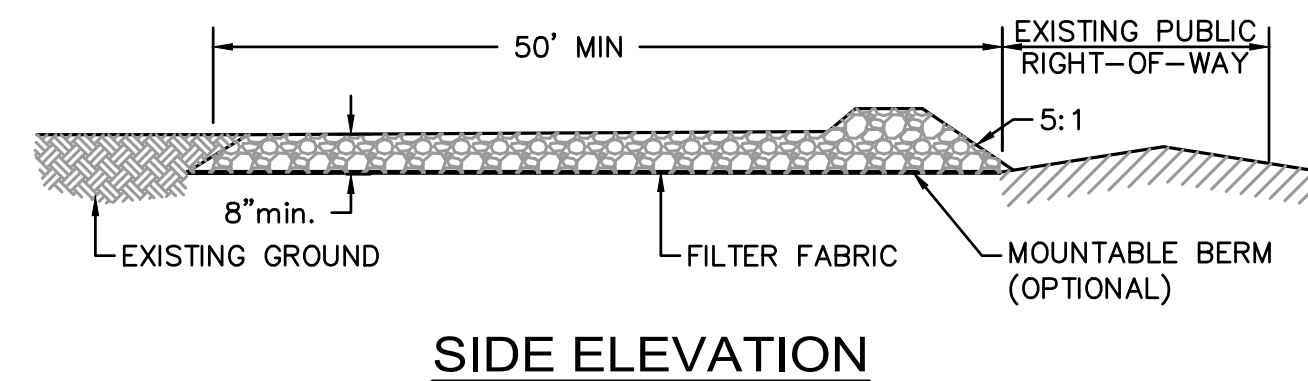
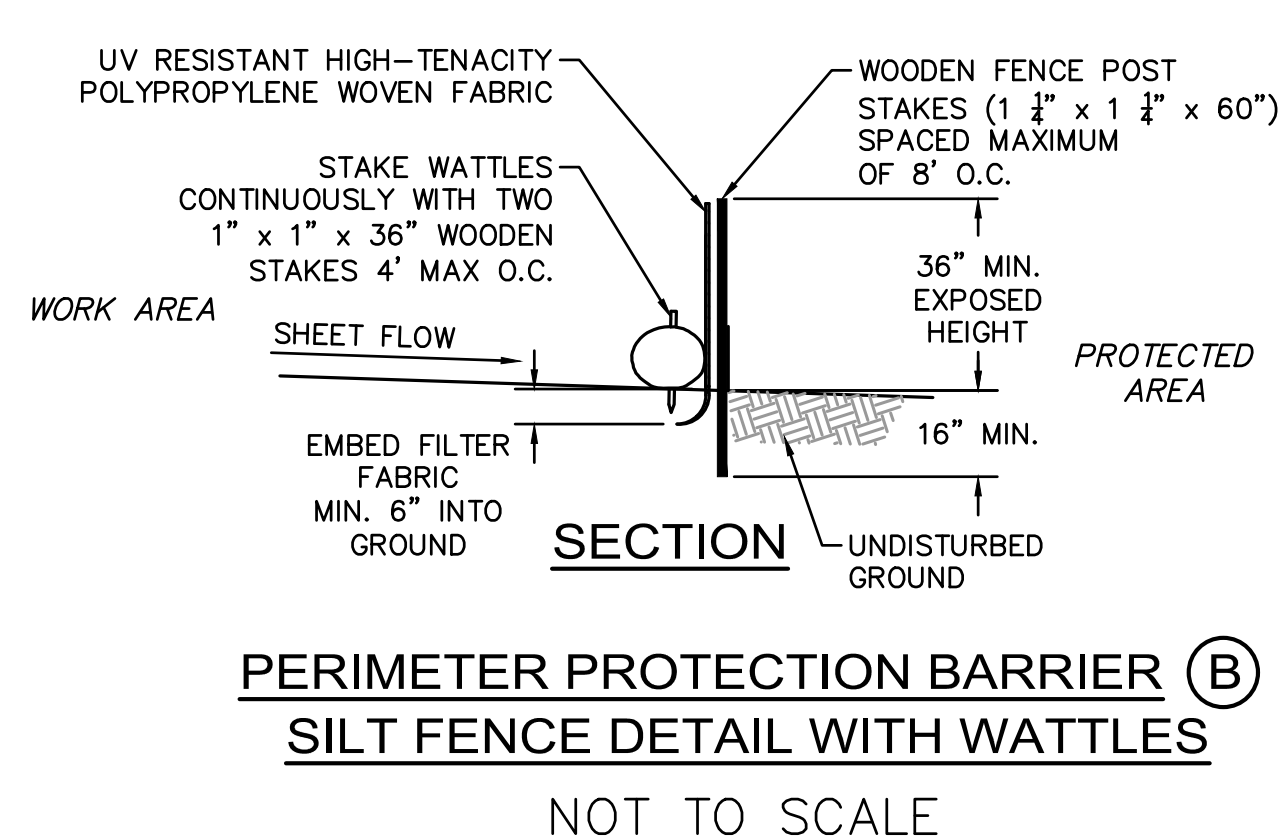
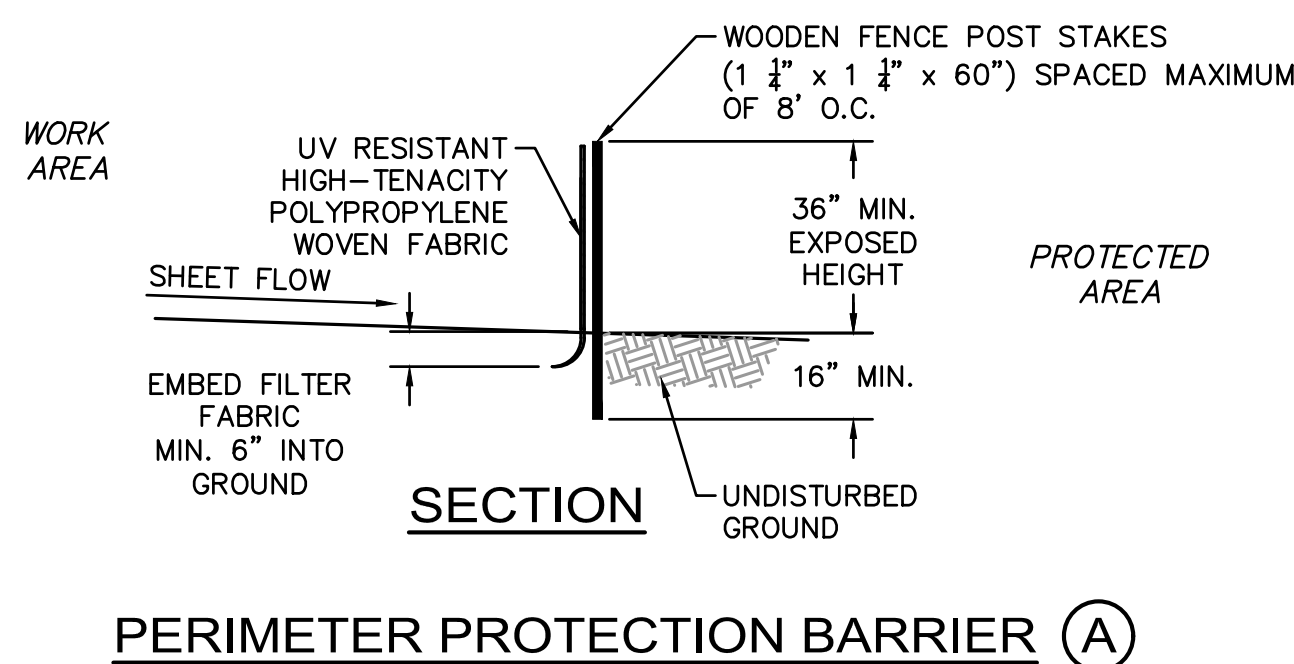
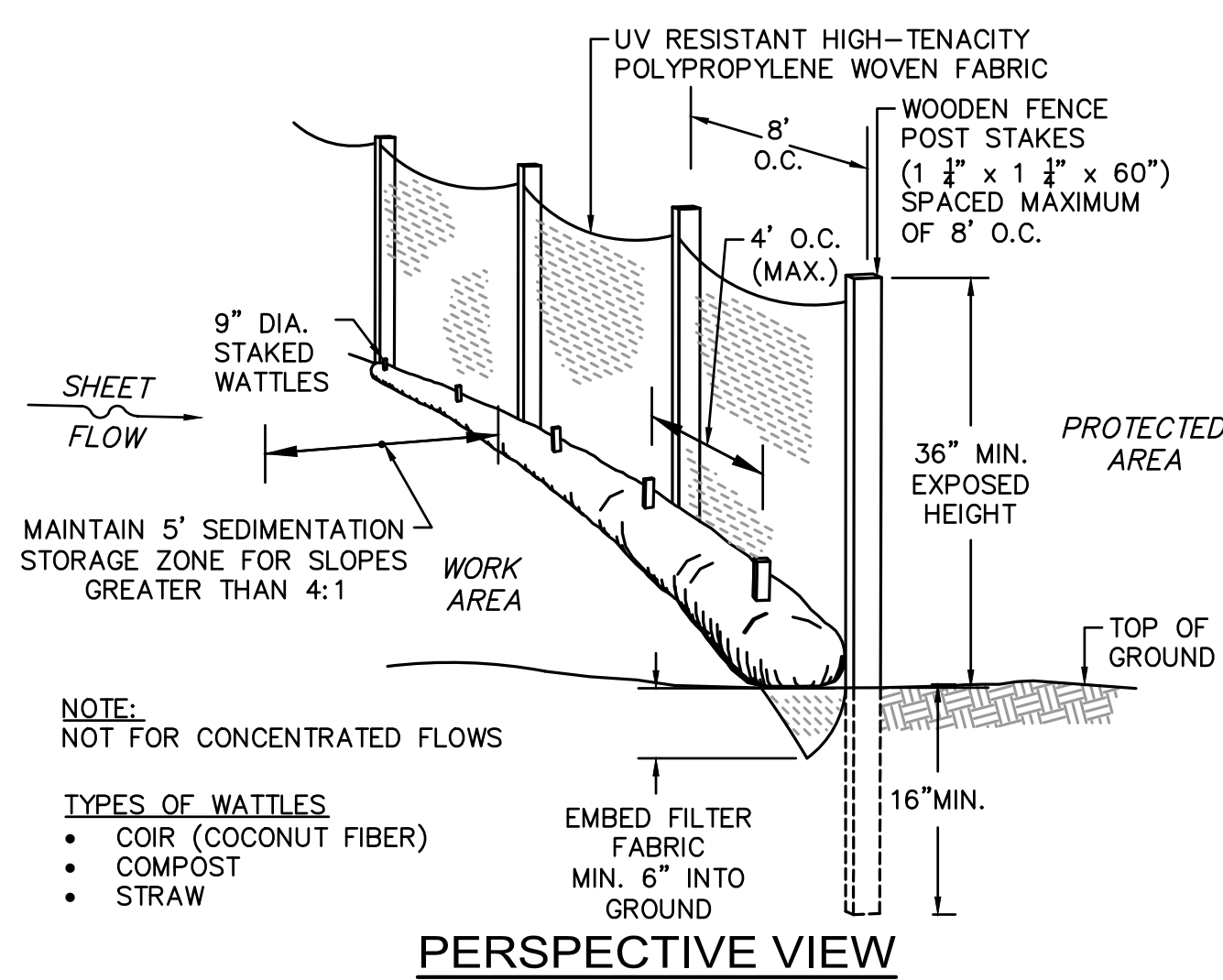
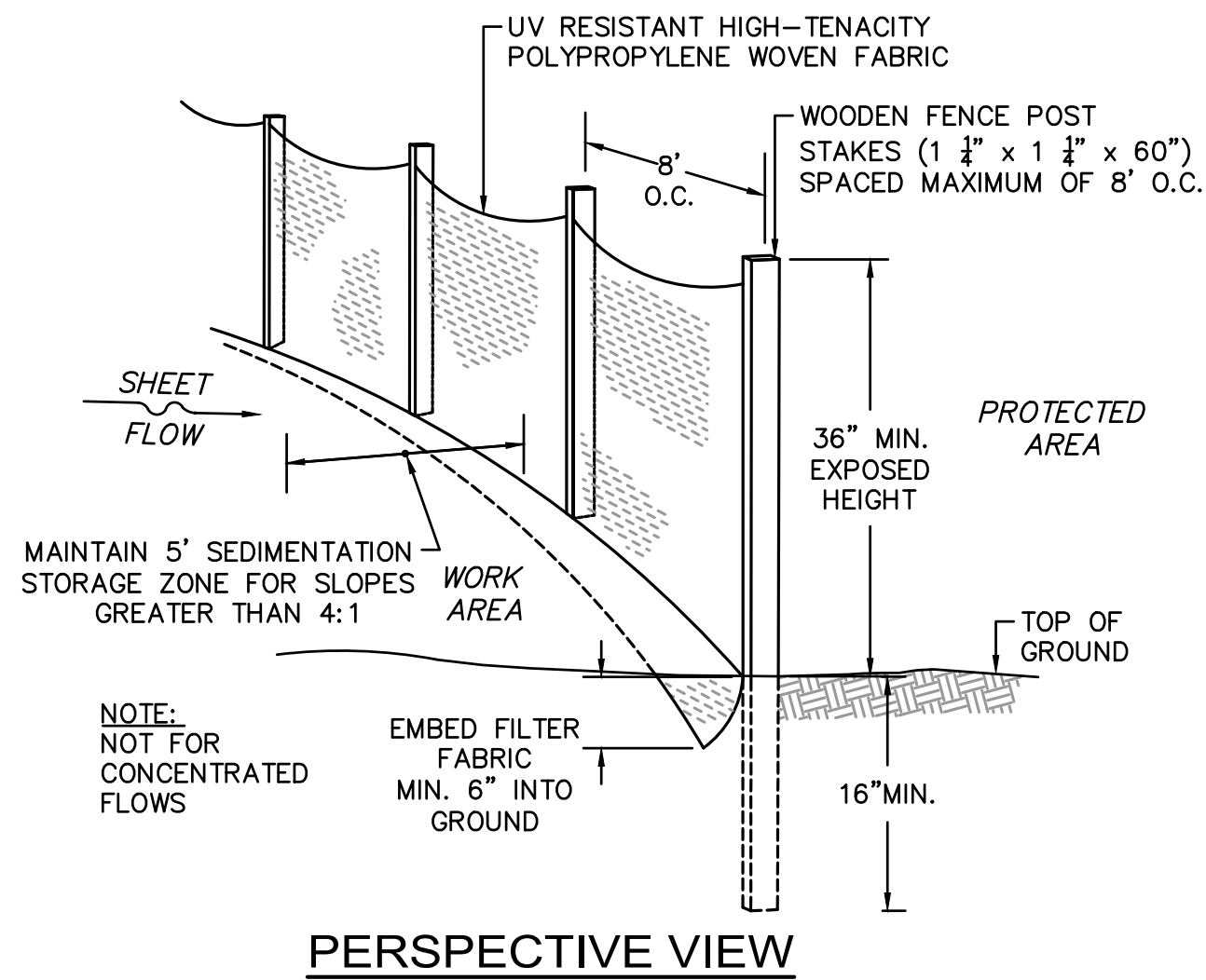
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PROJECT

UTILITY PLAN

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DATE	06.30.23
DRAWN	RL
CKD	CDH
SCALE	AS SHOWN
SHEET NO.	

C-400



CONSTRUCTION SPECIFICATIONS

CONSTRUCTION SPECIFICATIONS

LENGTH — GREATER THAN OR EQUAL TO 50 FEET

WIDTH — TWELVE FOOT MINIMUM (ONE WAY), TWENTY FOUR FOOT MINIMUM (TWO WAY), BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

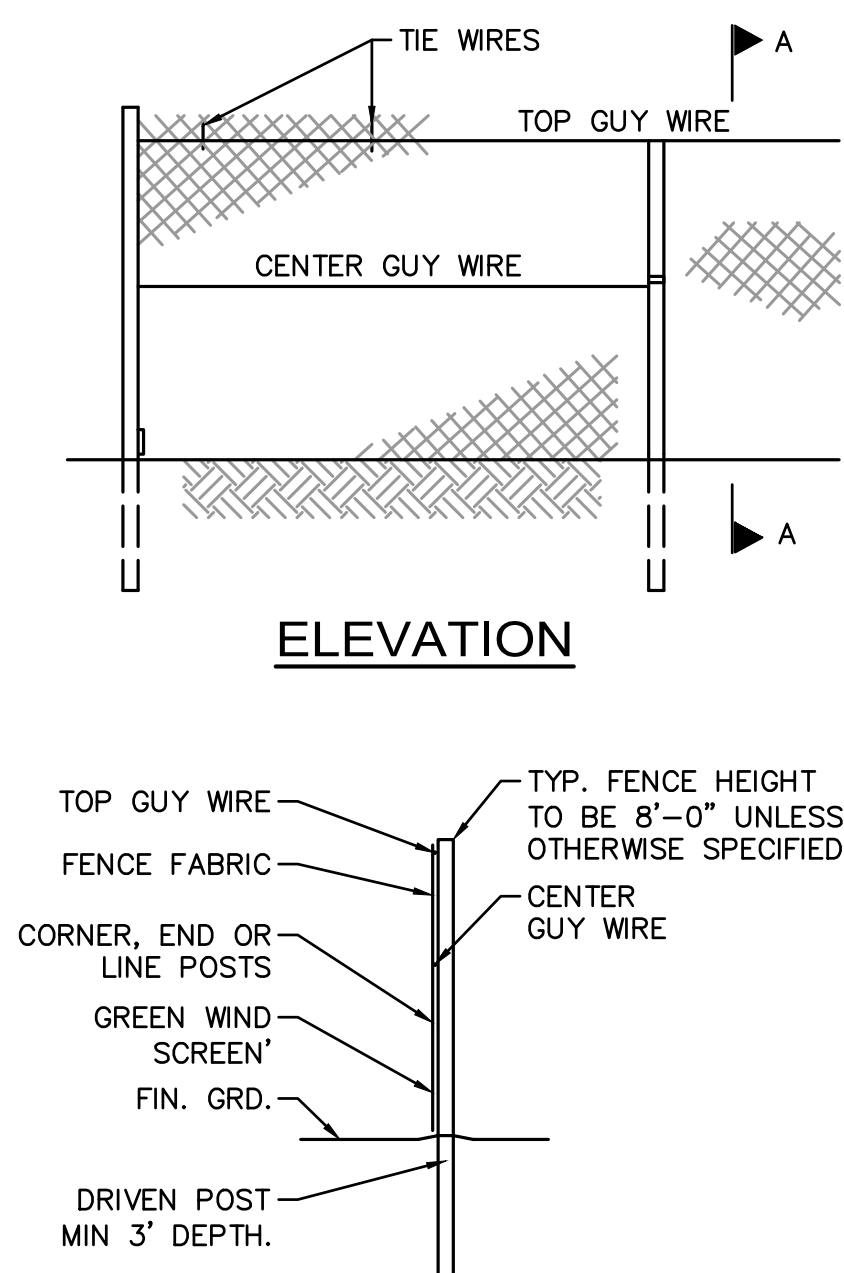
SURFACE WATER — ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHALL BE PERMITTED.

THICKNESS — 8"

MAINTENANCE — THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.

STABILIZED CONSTRUCTION ENTRANCE



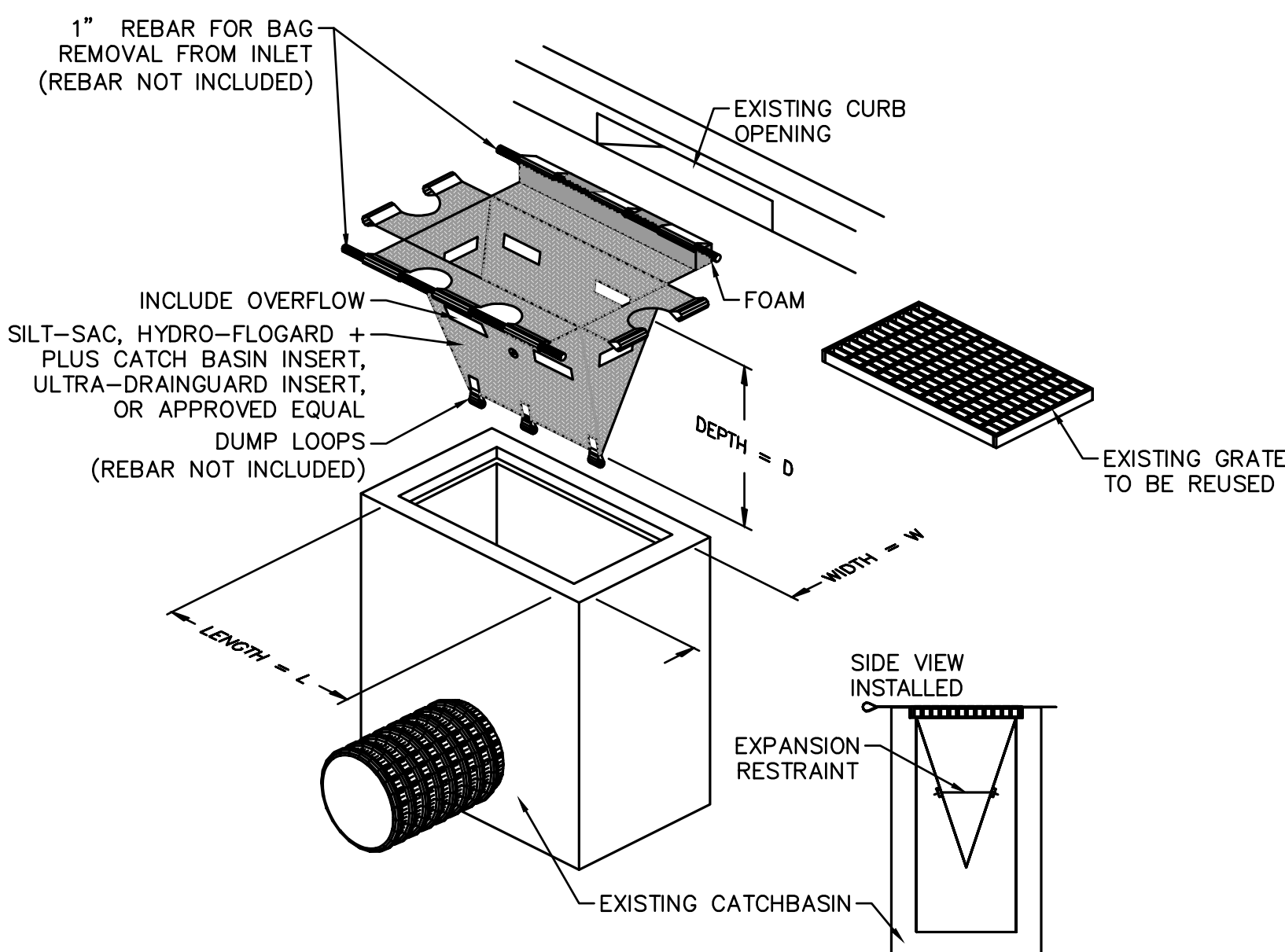
SECTION A-A

CHAIN LINK CONSTRUCTION FENCE

NOT TO SCALE

CONSTRUCTION FENCE AND GATE NOTES

1. FABRIC SHALL BE 0.148" WIRE, WOVEN INTO APPROXIMATELY 2" DIAMOND MESH.
2. THE FENCE FABRIC SHALL BE ZINC COATED STEEL OR ALUMINUM COATED STEEL.
3. FENCE POSTS SHALL RECEIVE THE SAME COATING AND TREATMENT AS THE FENCE FABRIC (DESCRIBED ABOVE).
4. THE CONTRACTOR SHALL ADD A GREEN WIND SCREEN
5. LINE POSTS SHALL BE 2 1/2" O.D. END OR CORNER POSTS SHALL BE 3" O.D.
6. THE CONTRACTOR IS RESPONSIBLE FOR SURFACE RESTORATION ONCE THE FENCE IS REMOVED.
7. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TEMPORARY CONSTRUCTION FENCE AT THE CONCLUSION OF THE PROJECT.



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS SHEET, OVERLAND OR CONCENTRATED FLOWS (NOT GREATER THAN 1 CFS). THE METHOD CAN DRAIN FLAT AREA TO STEEP SLOPES. INLET CAPACITY WILL BE DECREASED WITH THIS METHOD AND THE CONTRACTOR SHALL EXPECT PONDING DURING HIGH FLOW EVENTS.

INLET PROTECTION ② CATCH BASIN W/ SILTATION SACK

NOT TO SCALE



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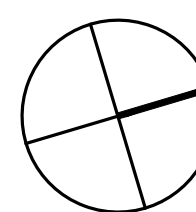


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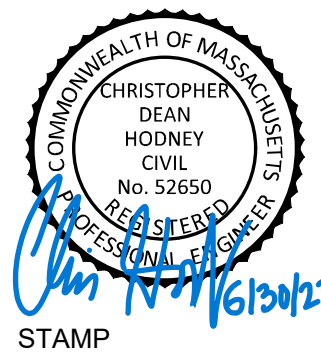
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NORTH



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WORCESTER, MA

PROJECT

EROSION AND
SEDIMENTATION CONTROL
DETAILS

DRAWING TITLE

CONTRACT NO.

DATE 05.31.23

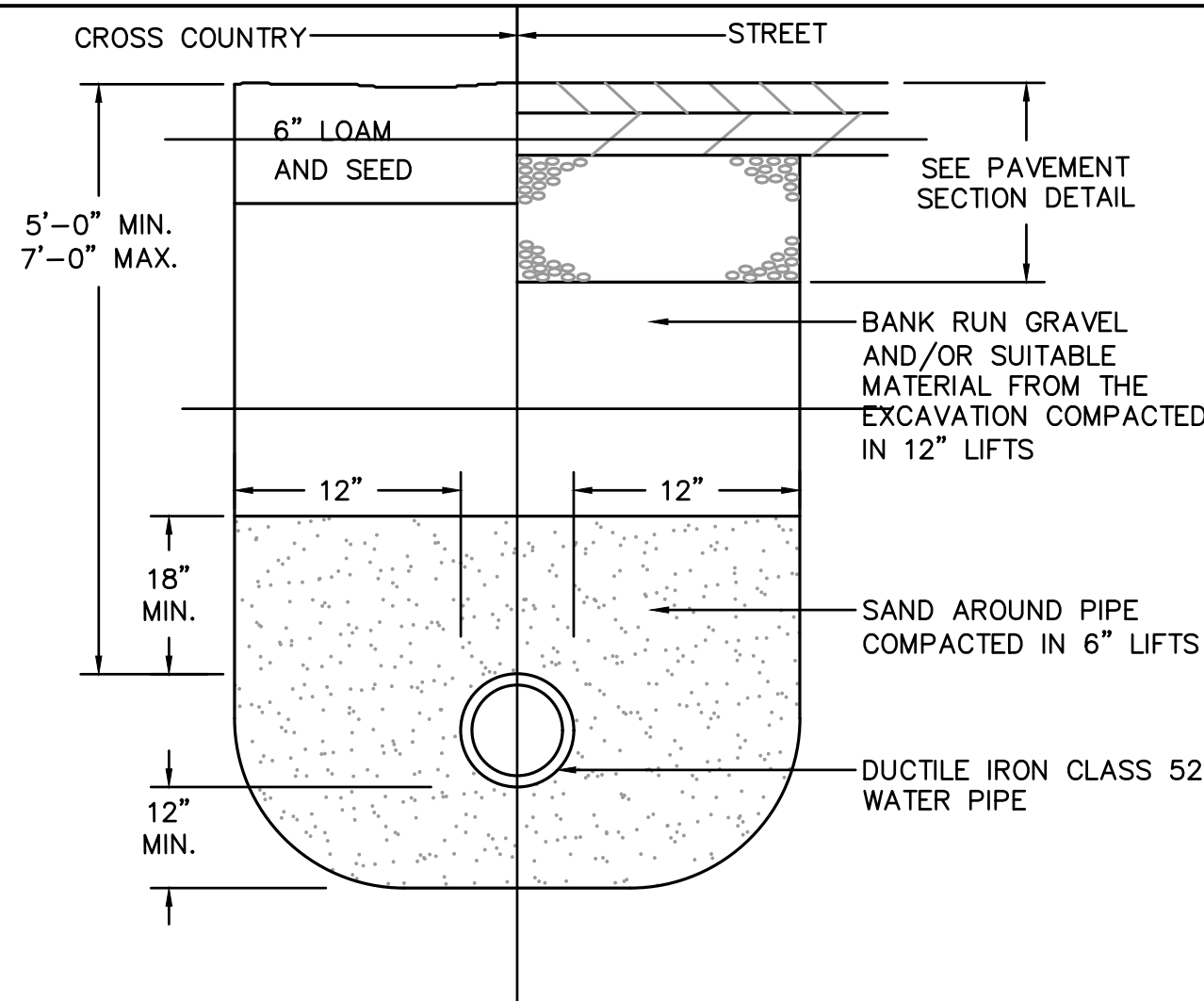
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CKD CDH

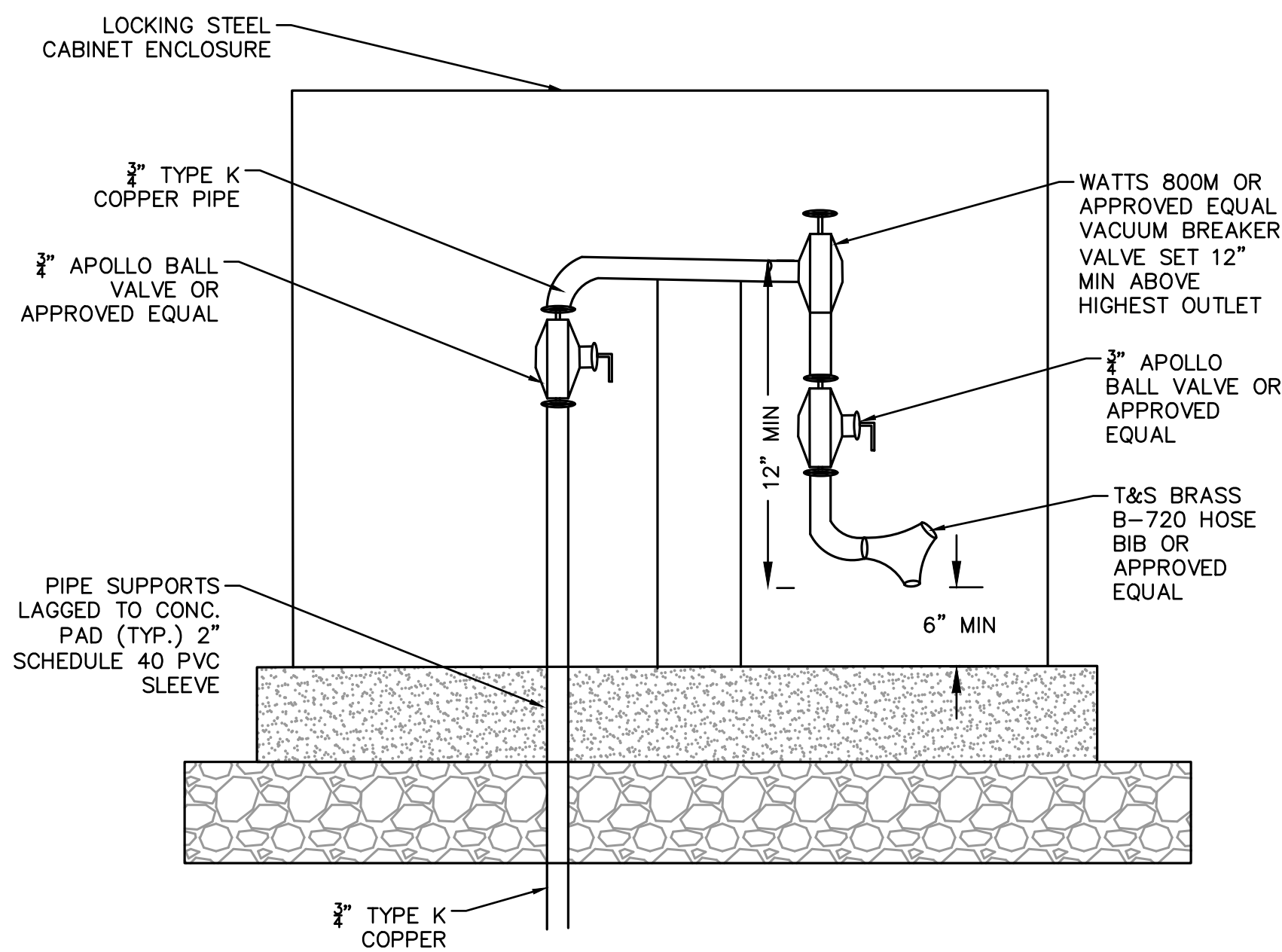
SCALE AS SHOWN

C-500

SHEET NO.

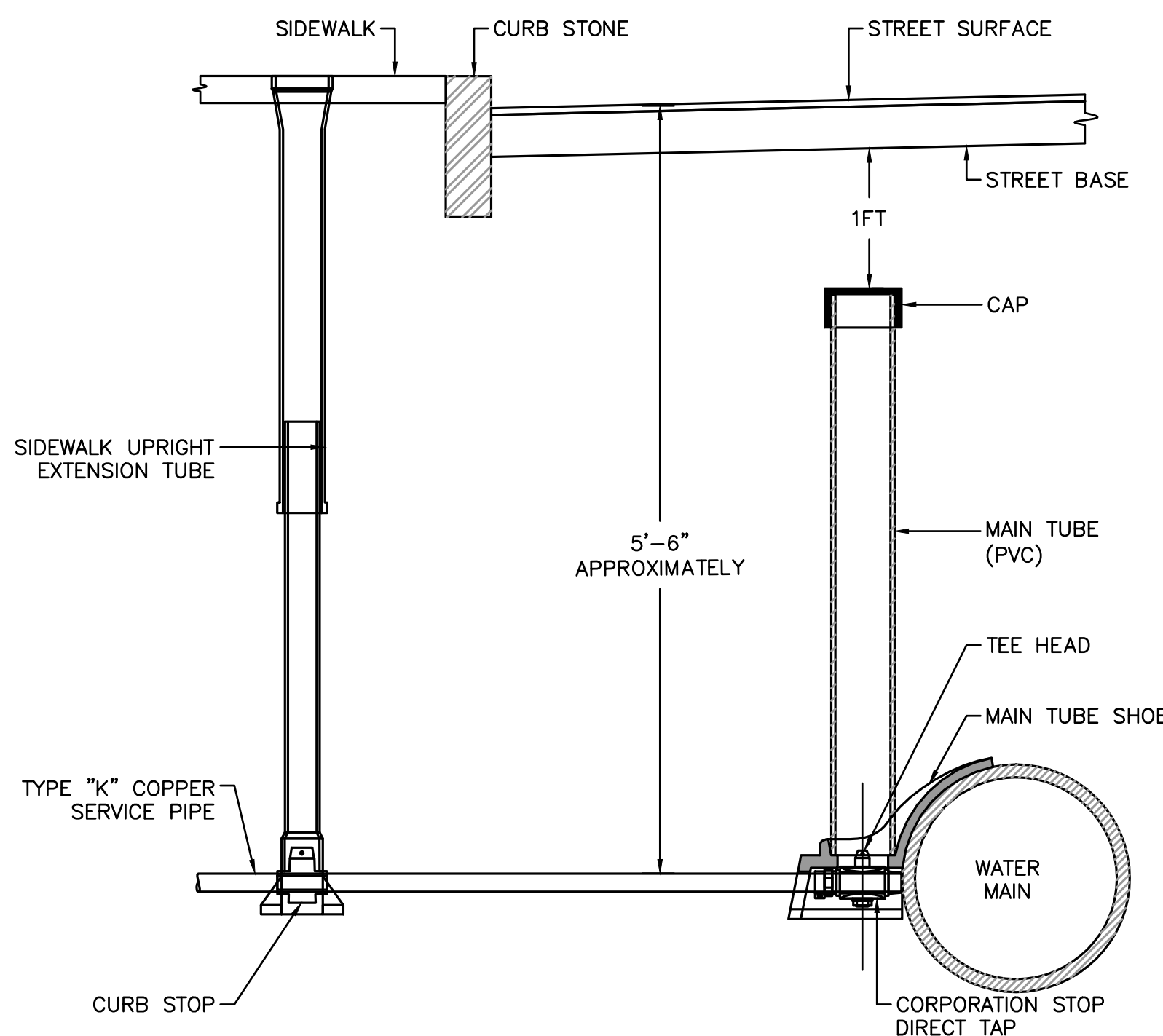


WATER TRENCH DETAIL



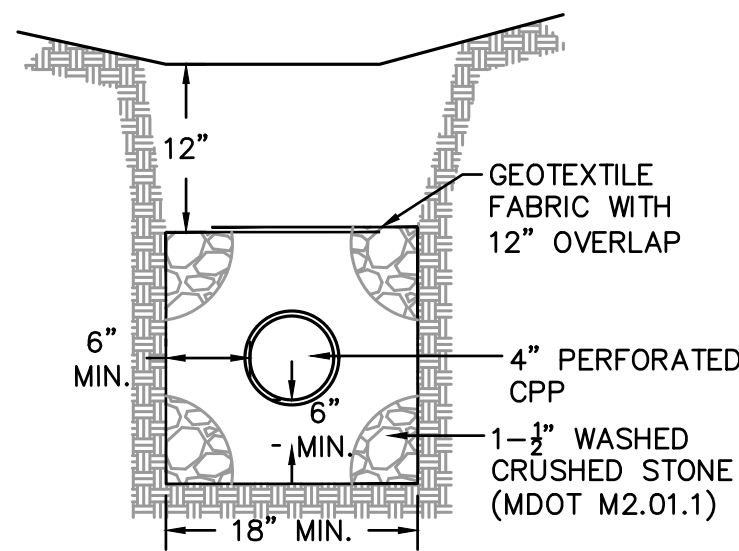
LOCKING HOSE BIB

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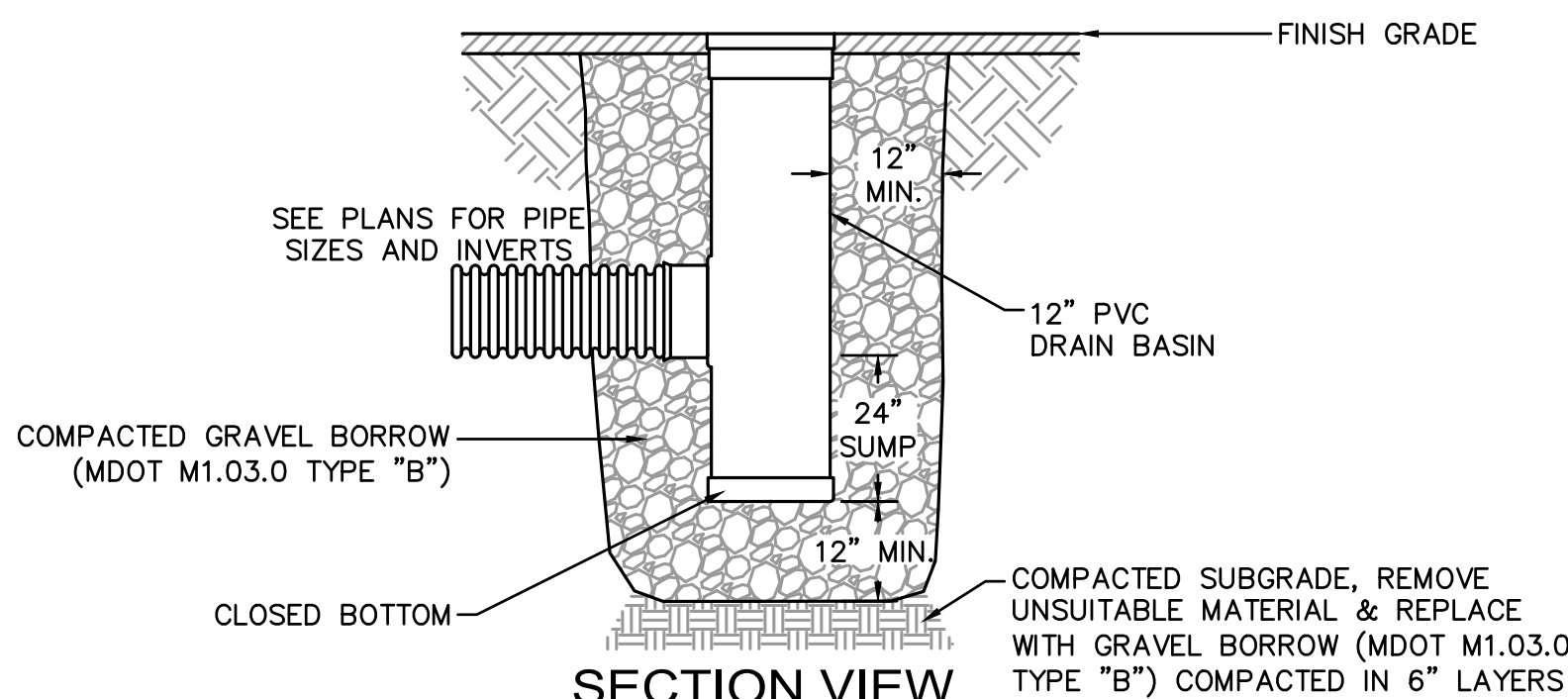
WATER CONNECTION DETAIL FOR 3/4" TO 2" SERVICES

NOT TO SCALE

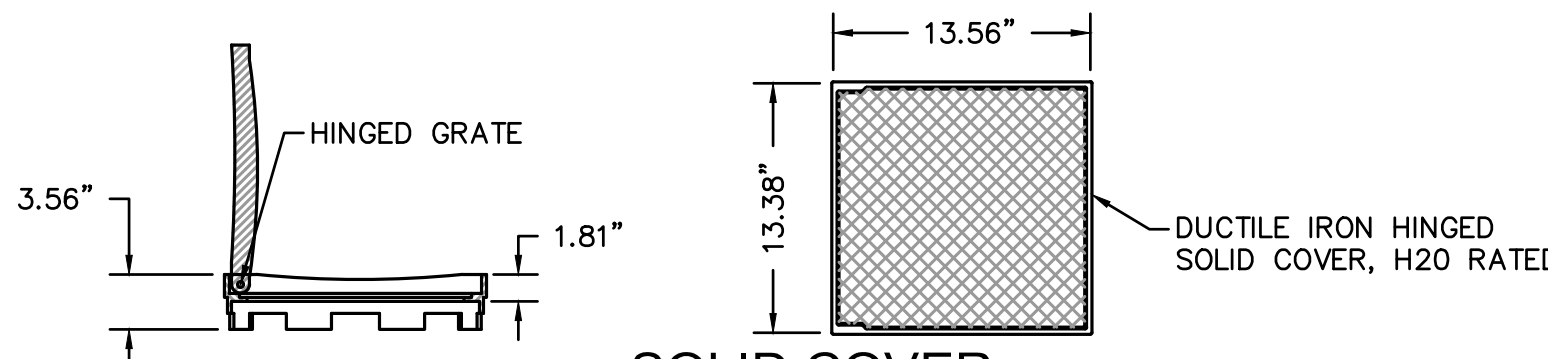


UNDERDRAIN DETAIL

NOT TO SCALE



SECTION VIEW



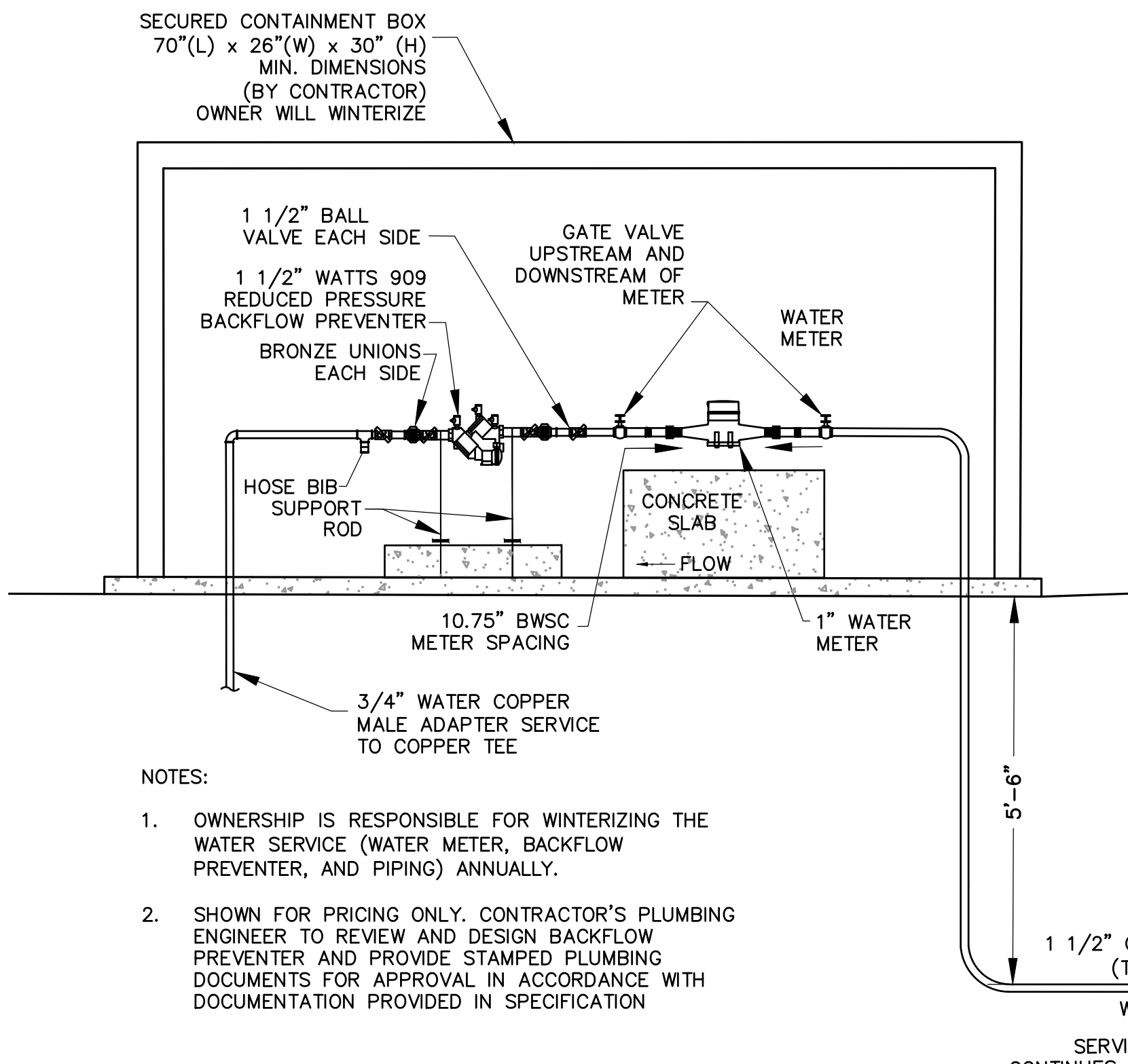
SOLID COVER

NOTES:

1. FRAME AND COVER SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 12" ACCESS BASINS SHALL BE NYLOPLAST MODEL 2812 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. ACCESS BASINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO ACCESS BASINS.

12" ACCESS BASIN DETAIL

NOT TO SCALE

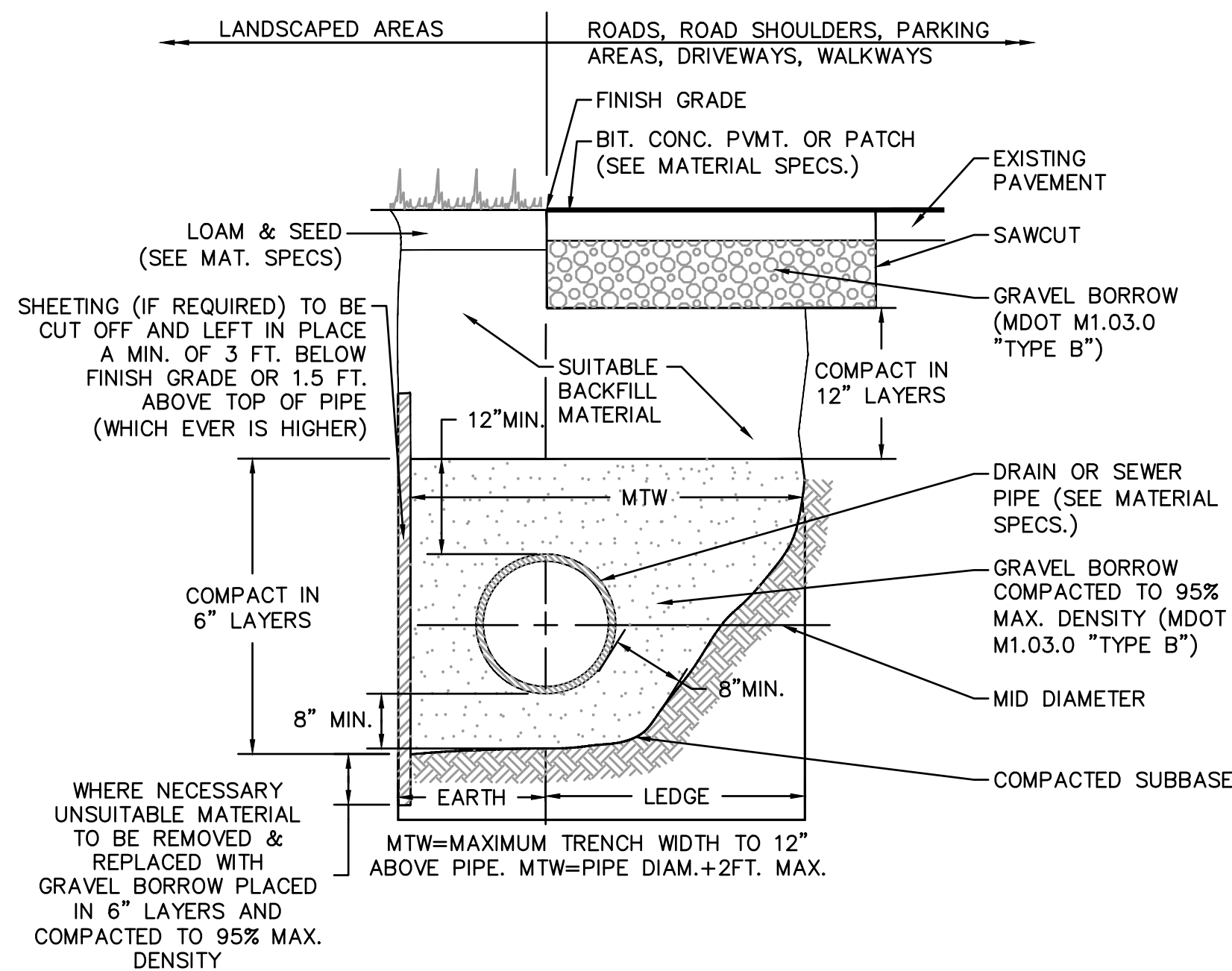


NOTES:

1. OWNERSHIP IS RESPONSIBLE FOR WINTERIZING THE WATER SERVICE (WATER METER, BACKFLOW PREVENTER, AND PIPING) ANNUALLY.
2. SHOWN FOR PRICING ONLY. CONTRACTOR'S PLUMBING ENGINEER TO REVIEW AND DESIGN BACKFLOW PREVENTER AND PROVIDE STAMPED PLUMBING DOCUMENTS FOR APPROVAL IN ACCORDANCE WITH DOCUMENTATION PROVIDED IN SPECIFICATION

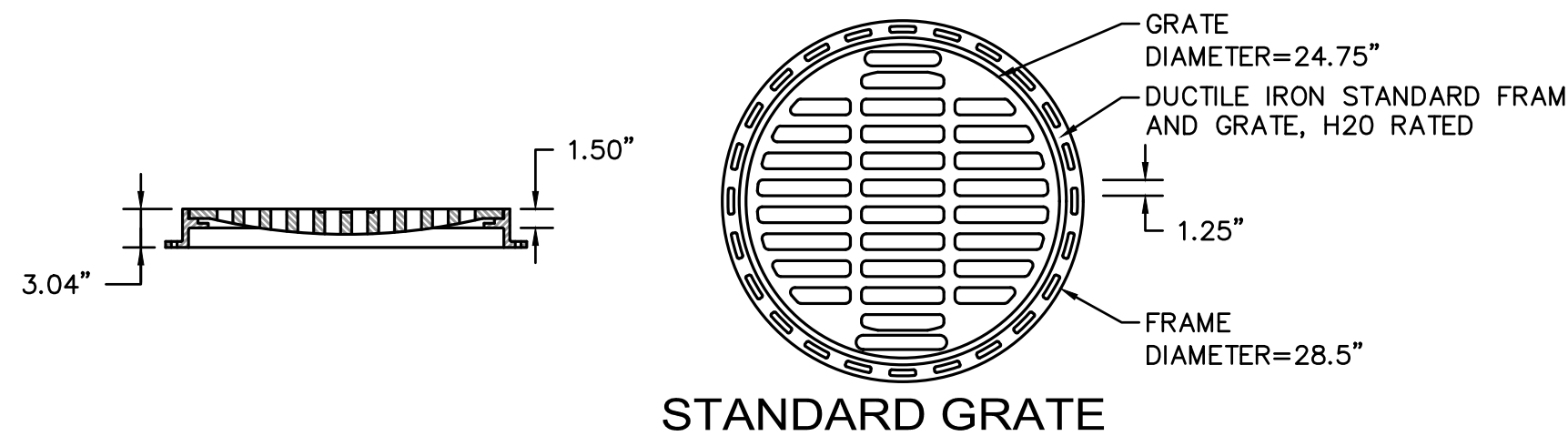
SECURED CONTAINMENT BOX WITH WATER METER AND BACKFLOW PREVENTER

NOT TO SCALE

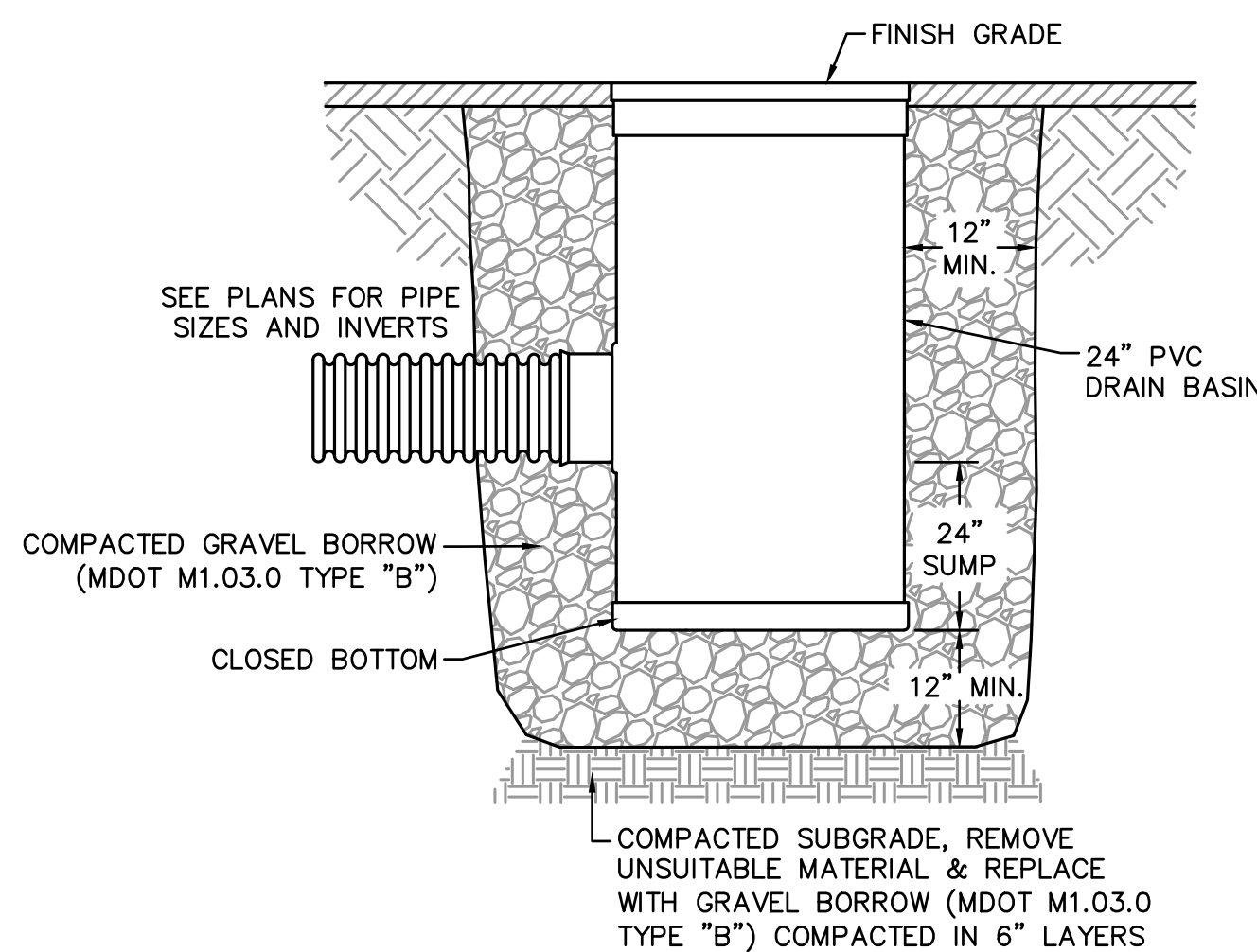


STANDARD TRENCH DETAIL FOR UTILITY PIPE

NOT TO SCALE



STANDARD GRATE



SECTION VIEW

NOTES:

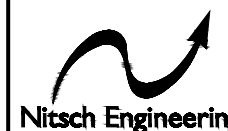
1. FRAME AND GRATE SHALL BE DUCTILE IRON CONFORMING TO ASTM A536 GRADE 70-50-05.
2. 24" AREA DRAINS SHALL BE NYLOPLAST MODEL 2824 AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC., OR APPROVED EQUAL.
3. AREA DRAINS SHALL BE CUSTOM MANUFACTURED ACCORDING TO THE PLANS AND DETAIL.
4. CASTINGS SHALL BE FURNISHED WITH A BLACK PAINT.
5. SEE PLANS FOR LAYOUT AND ELEVATIONS OF DRAIN PIPES TO AREA DRAINS.

24" AREA DRAIN DETAIL

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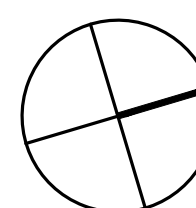
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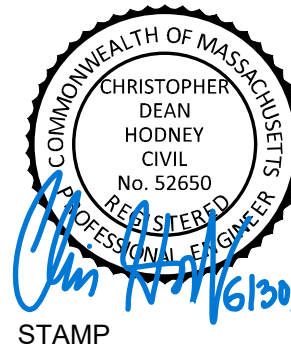
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PROJECT

CIVIL DETAILS

DRAWING TITLE

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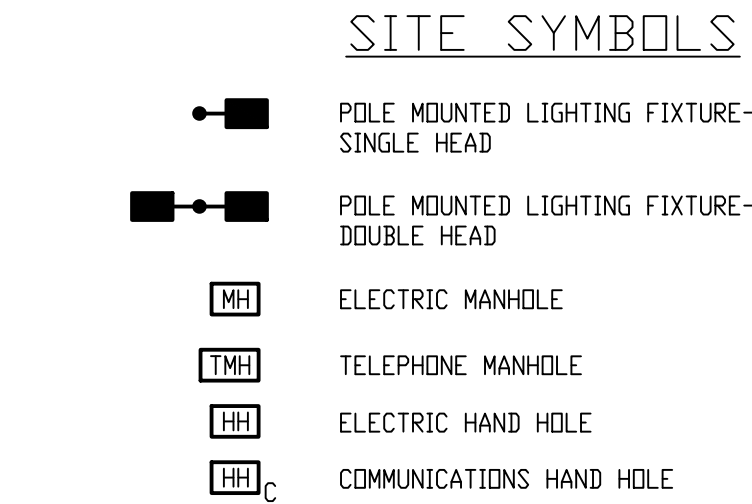
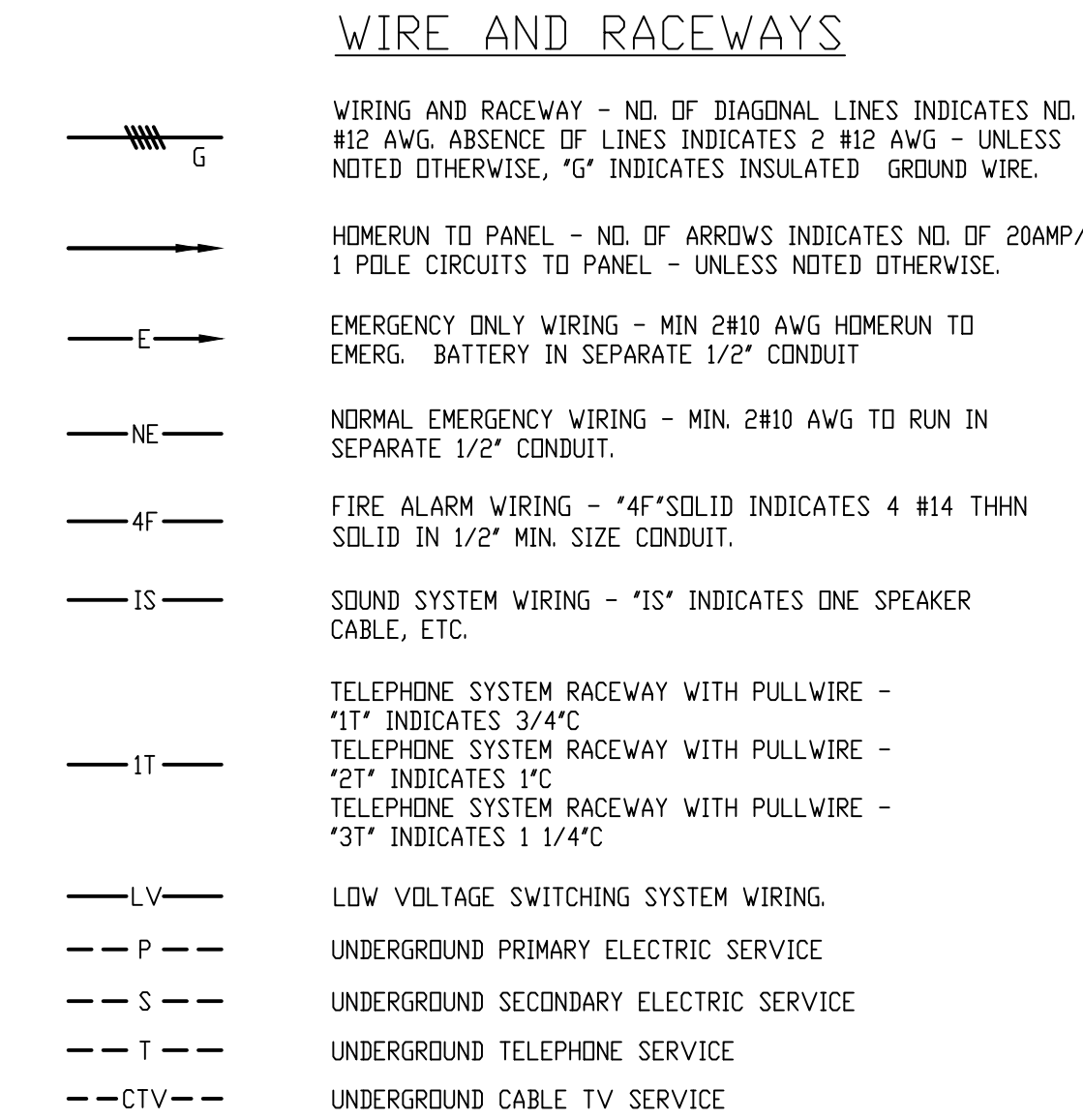
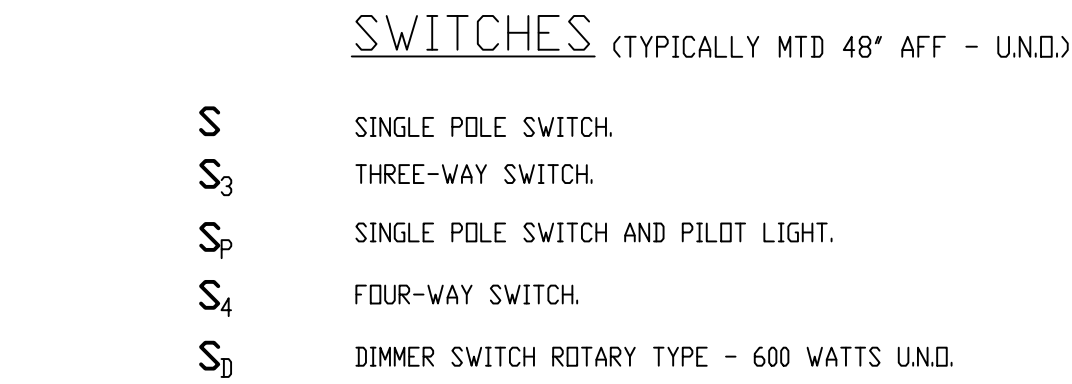
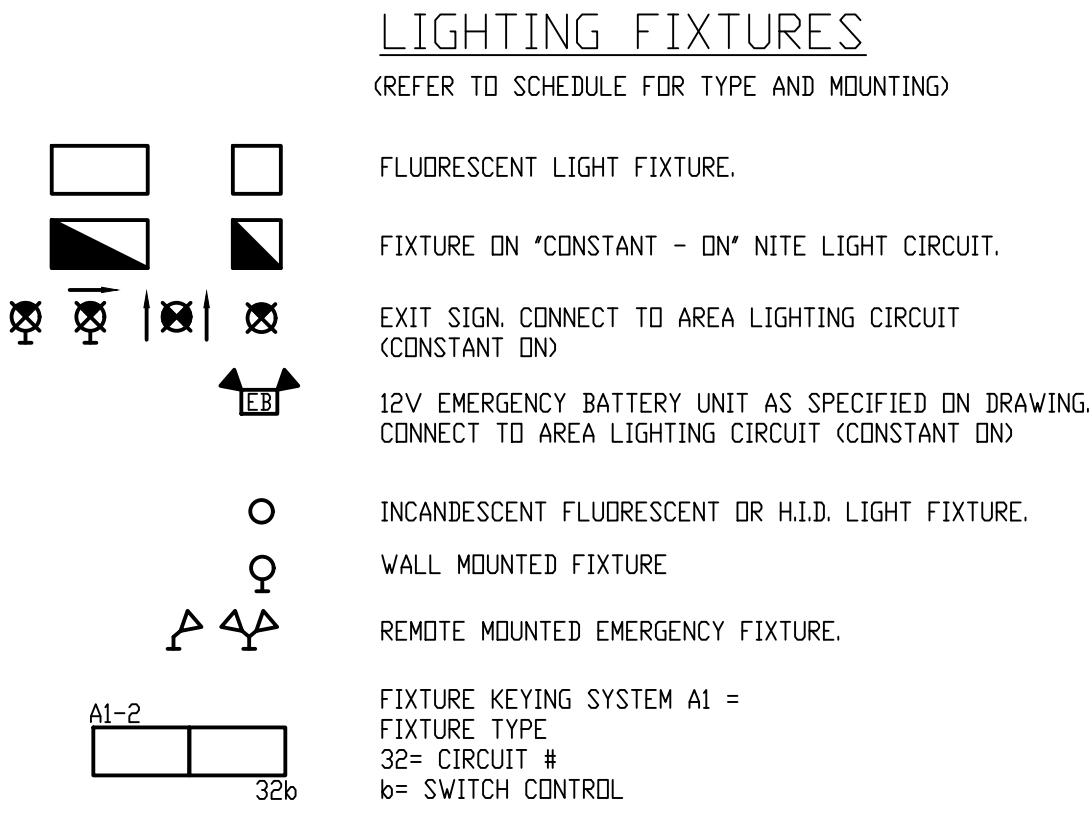
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SCALE

AS SHOWN

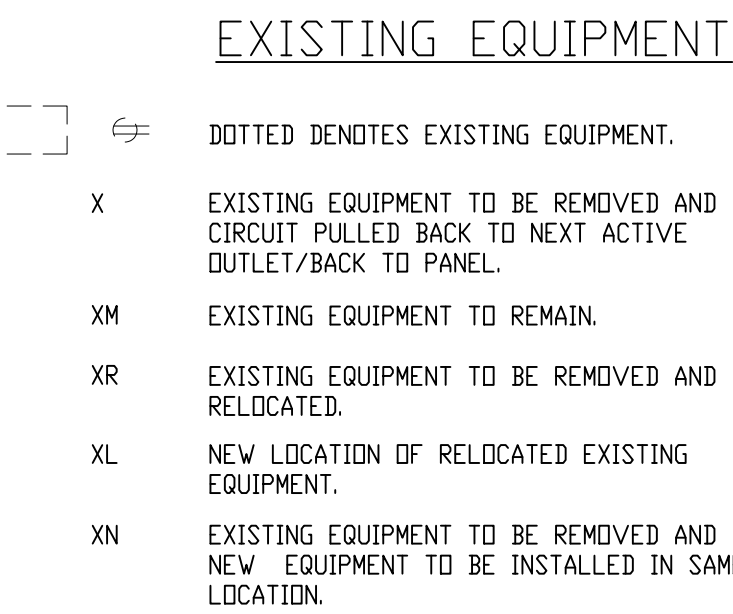
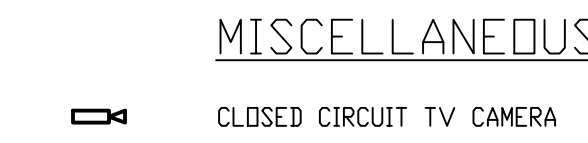
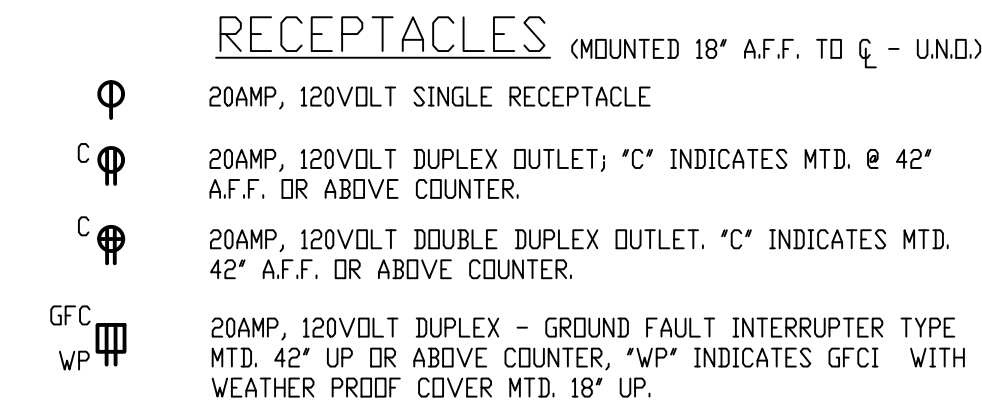
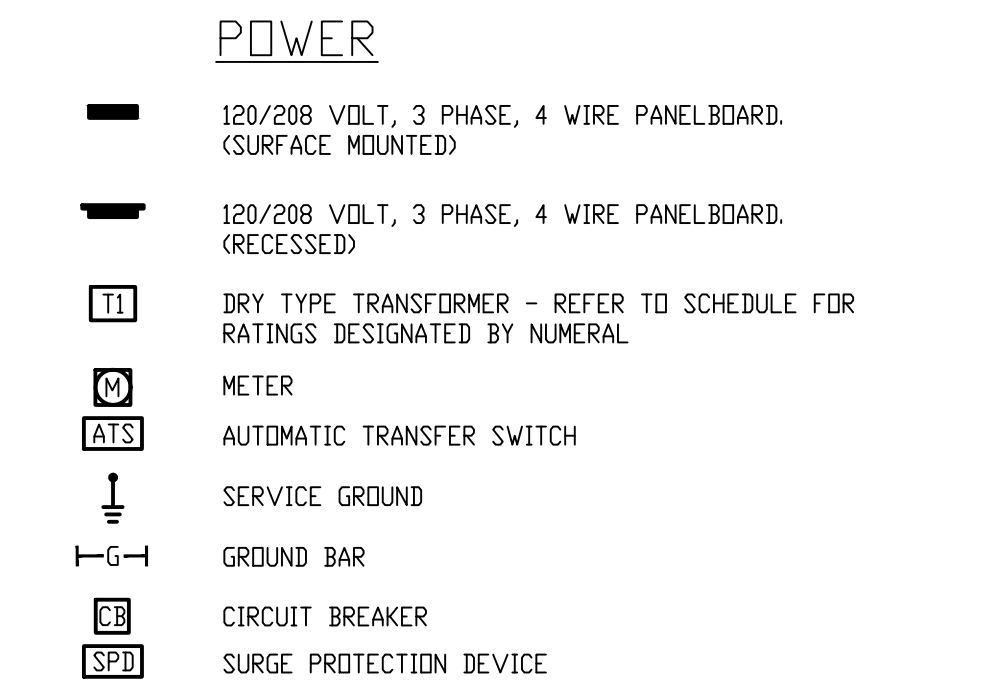
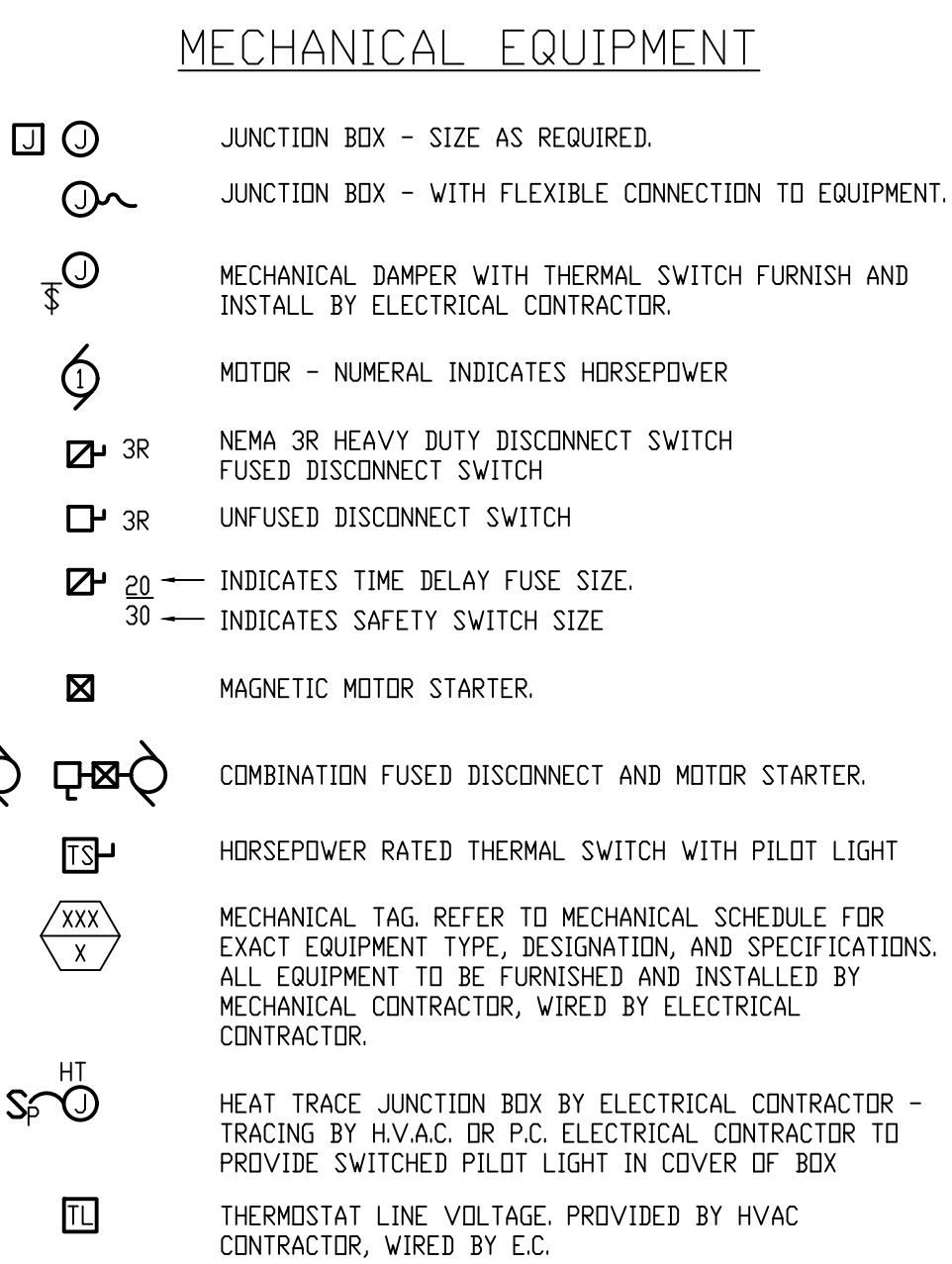
SHEET NO.

C-501



ABBREVIATIONS

A	AMPERS OR ANTENNA	DWG	DRAWING	KMIL	THOUSAND CIRCULAR MILS	PV	PHOTOVOLTAIC
AFG	ABOVE FINISH GRADE	E.C.	ELECTRICAL CONTRACTOR	KVA	KILOVOLT AMPERES	PVC	POLYVINYL CHLORIDE
AHJ	AUTHORITY HAVING JURISDICTION	EMT	ELECTRICAL METALLIC TUBING	KW	KILOWATTS	PW	POWER
AIC	AMPERE INTERRUPTING CAPACITY	EQ	EQUAL	LTG	LIGHTING	QTY	QUANTITY
AWG	AMERICAN WIRE GAUGE	EX	EXISTING	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	R	RECESSED
BLDG	BUILDING	F	FUSE	MISC	MISCELLANEOUS	S	SURFACE
C	CONDUIT	F&I	FURNISHED AND INSTALLED	MLO	MAIN LUGS ONLY	SP	SPARE
CAT	CATALOG	FA	FIRE ALARM	MP	MEGA PIXELS	SPD	SURGE PROTECTION DEVICE
CATV	CABLE TELEVISION	FLA	FULL LOAD AMPERES	NC	NORMALLY CLOSED	SW	SWITCH
CB	CIRCUIT BREAKER	FM	FACTORY MUTUAL	NEC	NATIONAL ELECTRIC CODE	TC	TIME CLOCK
CCTV	CLOSED CIRCUIT TV	FT	FEET	NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION	UG	UNDERGROUND
CKT	CIRCUIT	GC	GENERAL CONTRACTOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	UL	UNDERWRITERS LABORATORIES
CL	CENTERLINE	GFI	GROUND FAULT INTERRUPTER	NIC	NOT IN CONTRACT	UND	UNLESS NOTED OTHERWISE
CLG	CEILING	GND,G	GROUND DR GROUNDING	NTS	NOT TO SCALE	V	VOLT
COL	COLUMN	HD	HAND DRYER	P	POLE	VD	VOLTAGE DROP
COORD	COORDINATE	H&L	HORN/LIGHT	PH	PHASE	V/	WITH
CT	CURRENT TRANSFORMER	IMC	INTERMEDIATE METAL CONDUIT	PNL	PANEL	WP	WEATHER PROOF
CU	COPPER	INT	INTERLOCK			XFMR	TRANSFORMER
DIA	DIAMETER	KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY			Δ	DELTA
DN	DOWN					Y	WYE
						Ø	PHASE



LIGHTING FIXTURE SCHEDULE

ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH ALL HARDWARE, LAMPS, HANGERS, FITTING, ETC., FOR A COMPLETE AND PROPER INSTALLATION.

TYPE	MANUFACTURER	CATALOG NO.	MTG.	MTG HEIGHT	VOLTAGE	INPUT WATTS	LUMENS	LAMPS			REMARKS
								No.	WATTAGE	TYPE	
SL3	HOLOPHANE	NORTH YORKSHIRE SERIES POLE - POLE NVA-16-SLS-17D-CO3-BK-ABG-FG BK WFLC2-P20-40K-MVOLT-AD PROVIDE ELECTRICAL EXIT KIT.	P	16	208	45	4,500	1	45	LED	PROVIDE NCAP-2B AND BRAD 3 ADAPTER FOR SL1 LIGHT FIXTURE, FOR NEMA 3 MOUNTING FOR THE CAMERA NETWORK JB ON POLES. INSTALL TNUT3/8-100SM.

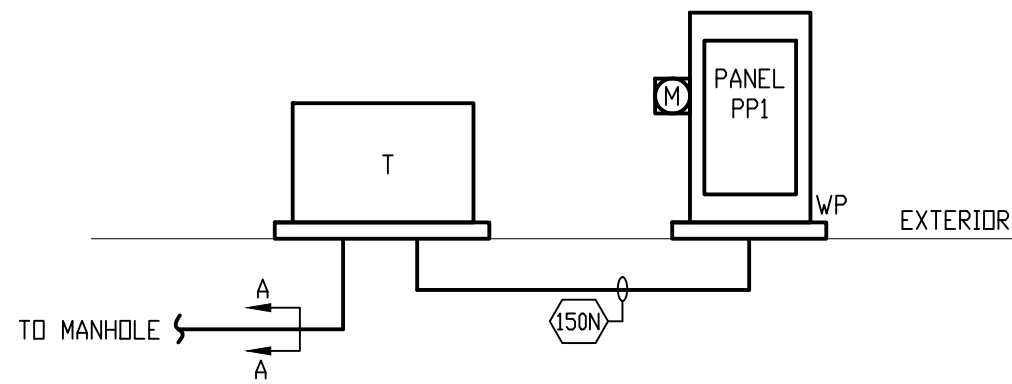
- LIGHTING FIXTURE GENERAL NOTES:**
- ALL BALLASTS SHALL BE OF THE ENERGY SAVINGS, HIGH POWER FACTOR TYPE, AND THD LESS THAN 10%.
 - FURNISH FIXTURES WITH ALL REQUIRED MOUNTING HARDWARE. WHERE RECESSED LIGHTING FIXTURES ARE TO BE INSTALLED IN PLASTER, ACOUSTIC TILE OR GYPSUM BOARD, PLASTER FRAMES, FINISH TRIM, FITTINGS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED TO MEET THE ARCHITECTURAL AND STRUCTURAL CONDITIONS AT EACH LOCATION.
 - ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH THE REQUIRED LAMPS AND SHALL BE RATED 120-VOLTS UNLESS OTHERWISE NOTED. LAMPS SHALL BE SP35 (3500K) UNLESS OTHERWISE NOTED.
 - FLAG POLE LIGHT HAS 33 FOOT CABLE. CONNECT WIRING TO CLASS II TRANSFORMER FOR POLE LED LIGHTING. WIRE PER MANUFACTURERS INSTRUCTIONS.
 - E.C. IS RESPONSIBLE FOR OBTAINING ALL THE CORRECT HARDWARE TO MOUNT ALL THE SECURITY CAMERAS TO THE NEW LIGHT POLES.
 - THE LIGHT POLE IS TO MEET CITY OF WORCESTER STANDARDS. PLUS, HAVE COMPARTMENTS FOR LOW VOLTAGE AND POWER. ORDER SLAXWIRELSBK RFD- 319317 AUXILIARY CHANNEL KIT. ALSO, MUST GET MOUNTING STUDS FOR SUPPORT OF SIEMENS NEMA 3R ENCLOSURE. MOUNTING OF ENCLOSURE IS BY E.C.

120/208V, 3Ø, 4W

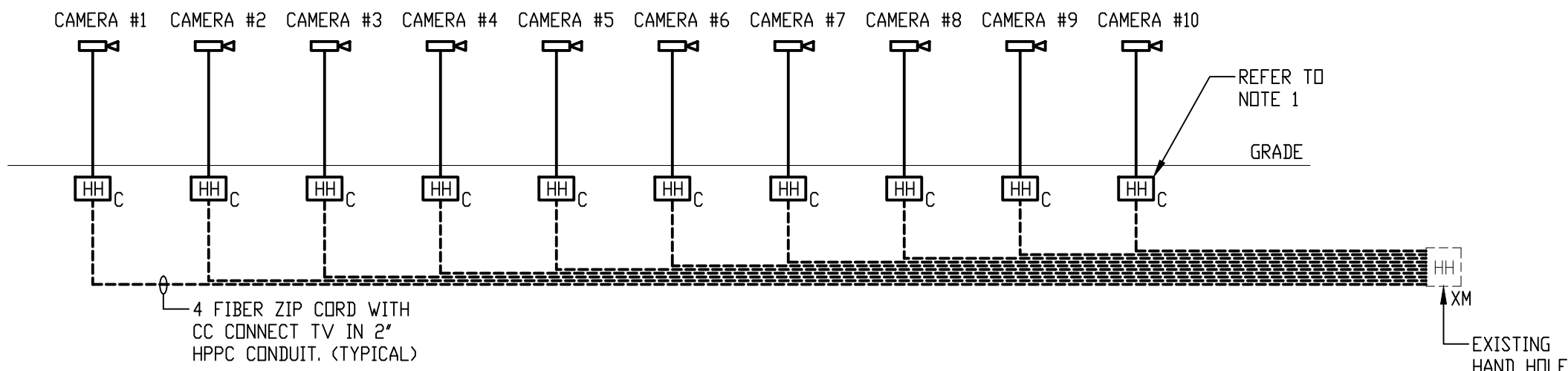
PANEL SCHEDULE

PANEL NO.	LOCATION	MTG	MAIN BUS AMPS	MAIN CB	KAIC RATING	BRANCH CKT BREAKER (AMPS). KAIC RATING OF THE BRANCH C.B.'S WILL MATCH KAIC RATING OF PANEL																								TOTAL POLES	OTHERS
						1 POLE						1 POLE ARC FAULT/GRD FAULT				1 POLE ARC/GFI				2 POLE						3 POLE					
						15	20	30	40	50	60	15	20	15	20	15	20	15	20	30	40	50	60	15	20	30	40	50	60	100	
PP1	XX	S	200	150	42		4											2											30	XX	

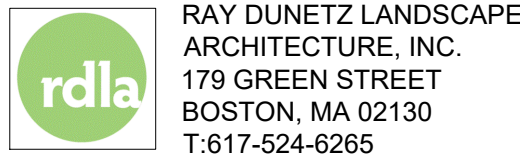
- NOTES:**
- BRANCH CIRCUIT BREAKERS KAIC SHALL MATCH THE KAIC RATING OF THE PANEL BOARD.



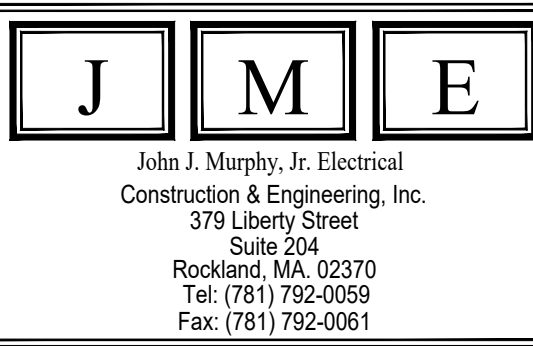
- ONE-LINE RISER DIAGRAM**
SCALE: NTS
- NOTES:**
- E.C. TO PROVIDE ARC FLASH LABEL IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) SECTION 110.16
 - COORDINATE SHORT CIRCUIT RATING OF ELECTRICAL EQUIPMENT WITH LOCAL UTILITY.
 - PROVIDE LABEL ON ELECTRICAL SERVICE PANEL OF AVAILABLE FAULT CURRENT. PER ARTICLE 110.24 IN THE 2017 NATIONAL ELECTRICAL CODE. COORDINATE THIS WITH LOCAL UTILITY COMPANY.
 - PROVIDE SURGE SUPPRESSORS FOR ALL NEW ELECTRIC PANELS AT THE MAIN SERVICE. WIRE PER MANUFACTURERS RECOMMENDATIONS.
 - E.C. IS TO VERIFY HOT OR COLD METER SEQUENCE WITH THE UTILITY.
 - E.C. IS TO INSTALL TWO (2) 3/4" X 10 FOOT GROUND RODS. CONNECT PANEL PP1 WITH #6 COPPER WIRE
 - FURNISH AND INSTALL THE ELECTRICAL PANEL IN A WEATHERPROOF ENCLOSURE REFER TO WORCESTER'S PERFORMANCE SPECIFICATIONS ON THE SPECIFICATION FOR THE EXTERIOR ENCLOSURE. PROVIDE FIRE RATED PLYWOOD TO MOUNT THE ELECTRICAL PANEL ON.
 - INSTALL TWO (2) 2 GANG EXTERIOR OUTLET EACH WITH A DEDICATED GFCI OUTLET. CONNECT TO CIRCUITS PP1-1, 2, 3, 4. LABEL EACH CIRCUIT WITHIN THE HEAVY DUTY IN USE COVER.
 - BOND THE NEW ENCLOSURE TO THE ELECTRICAL SERVICE. INSTALL (1) #6 TO THE FRAME OF THE NEW ENCLOSURE.



- CAMERA RISER DIAGRAM**
SCALE: NTS
- NOTES:**
- E.C. IS TO CONVERT HPFC CONDUIT TO SCHEDULE 40 PVC. INSTALL ONE COMMUNICATION HAND HOLE AT THE BASE OF EACH POLE AS SHOWN ON THE DRAWINGS. INSTALL 3/4" SCH40 PVC CONDUIT FROM HAND HOLE TO NEW LIGHT POLE. WIRE PER CITY OF WORCESTER REQUIREMENTS.



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T:617-524-0265

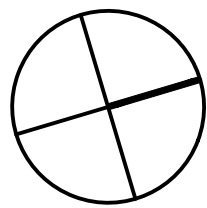


John J. Murphy, Jr. Electrical
Construction & Engineering, Inc.
379 Liberty Street
Suite 204
Rockland, MA 02370
Tel: (781) 792-0059
Fax: (781) 792-0061

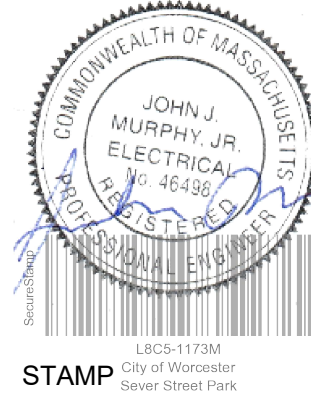
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NORTH



STAMP City of Worcester
Sever Street Park

SEVER STREET PARK
WORCESTER, MA

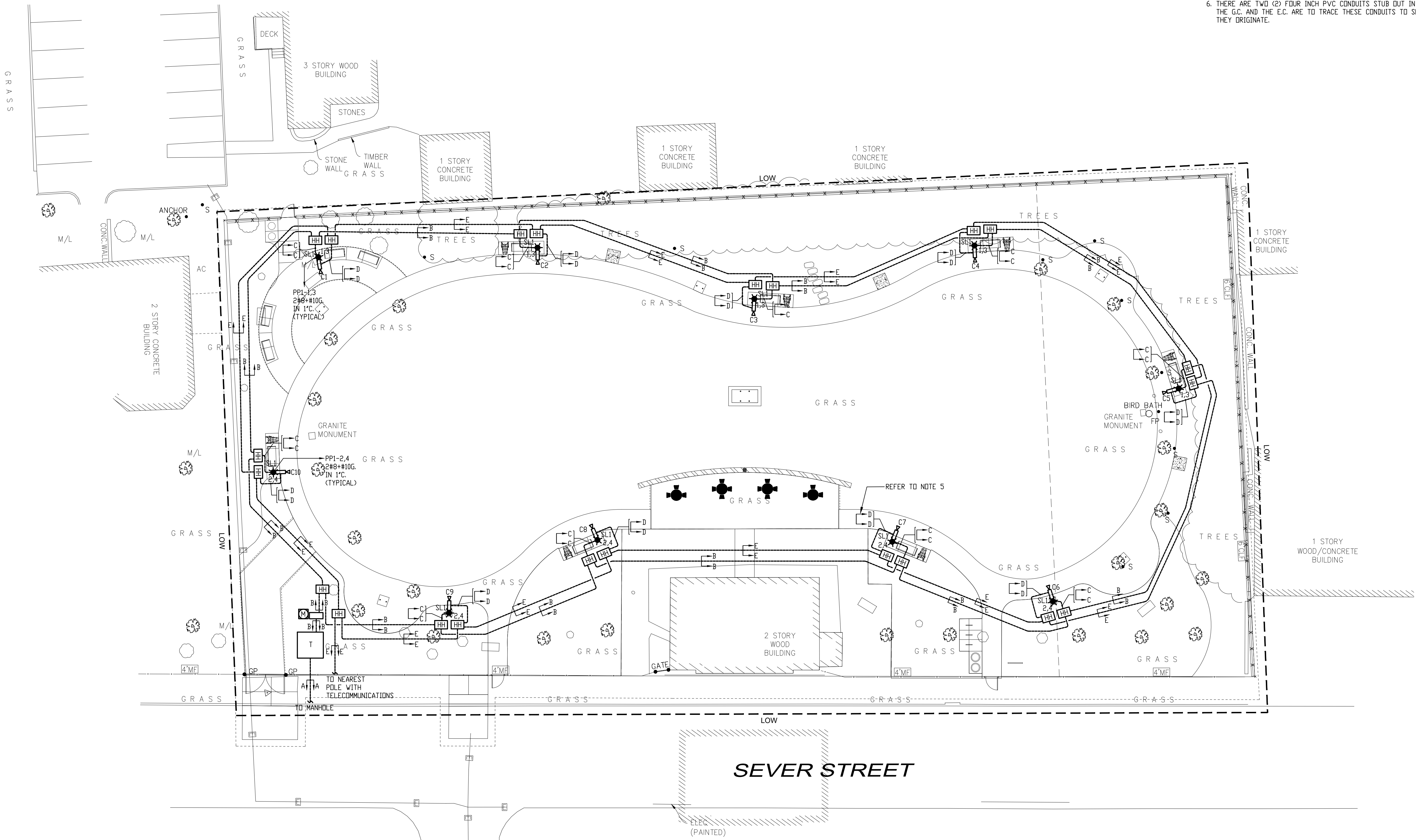
PROJECT

ELECTRICAL LEGEND

DRAWING TITLE	
CONTRACT NO.	
DATE	03.31.23
DRAWN	MTG
CKD	JJM
SCALE	AS SHOWN

E-0.1

SHEET NO.



- NOTES:**
1. THE E.C. IS TO HIRE SIEMENS FOR ALL THE SECURITY EQUIPMENT AND ALL THE NECESSARY EQUIPMENT TO BE INSTALLED FOR BOTH GATE LOCATIONS. REFER TO THE SPECIFICATIONS FOR THEIR RESPONSIBILITIES AND THERE COST FOR THE WORK (TYPICAL).
 2. E.C. IS TO INSTALL ONE DUPLEX OUTLET AT EACH NEW LIGHT POLE TO POWER SWITCH FOR THE CAMERAS. INSTALL 2#10 # 10 G IN 3/4" SCH 40 PVC CONDUIT 24" BELOW GRADE. COORDINATE THE OUTLET WITH SIEMENS.
 3. E.C. IS TO INSTALL WEATHER PROOF PEDESTAL EQUAL HOFFMAN (NVENT) A723636SSF SN4 (72"X36"X36") FREE STANDING ENCLOSURE. PROVIDE FIRE RATED PLYWOOD TO MOUNT THE ELECTRICAL PANEL ON IT
 4. E.C. IS TO INSTALL HAND HOLE AT THE BASE OF EACH LIGHT FOR CCTV WIRING. E.C. IS TO CONVERT FROM HDPE TO SCHEDULE 40PVC WITHIN THE HAND HOLE.
 5. ACTUAL LOCATION FOR THE HANDHOLES FOR THE COMMUNICATIONS AND FOR THE POWER. REFER TO THE LANDSCAPE PLANS FOR THE EXACT LOCATIONS.
 6. THERE ARE TWO (2) FOUR INCH PVC CONDUITS STUB OUT IN THIS AREA. THE G.C. AND THE E.C. ARE TO TRACE THESE CONDUITS TO SEE WHERE THEY ORIGINATE.



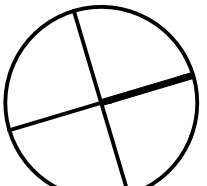
rdla RAY DUNETZ LANDSCAPE ARCHITECTURE, INC.
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J M E
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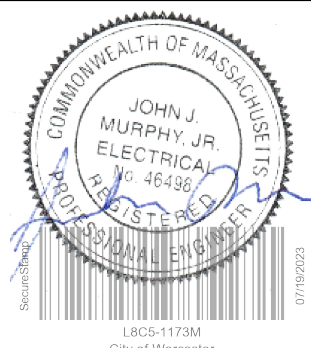
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ELECTRICAL SITE PLAN

DRAWING TITLE

CONTRACT NO.

DATE 03.31.23

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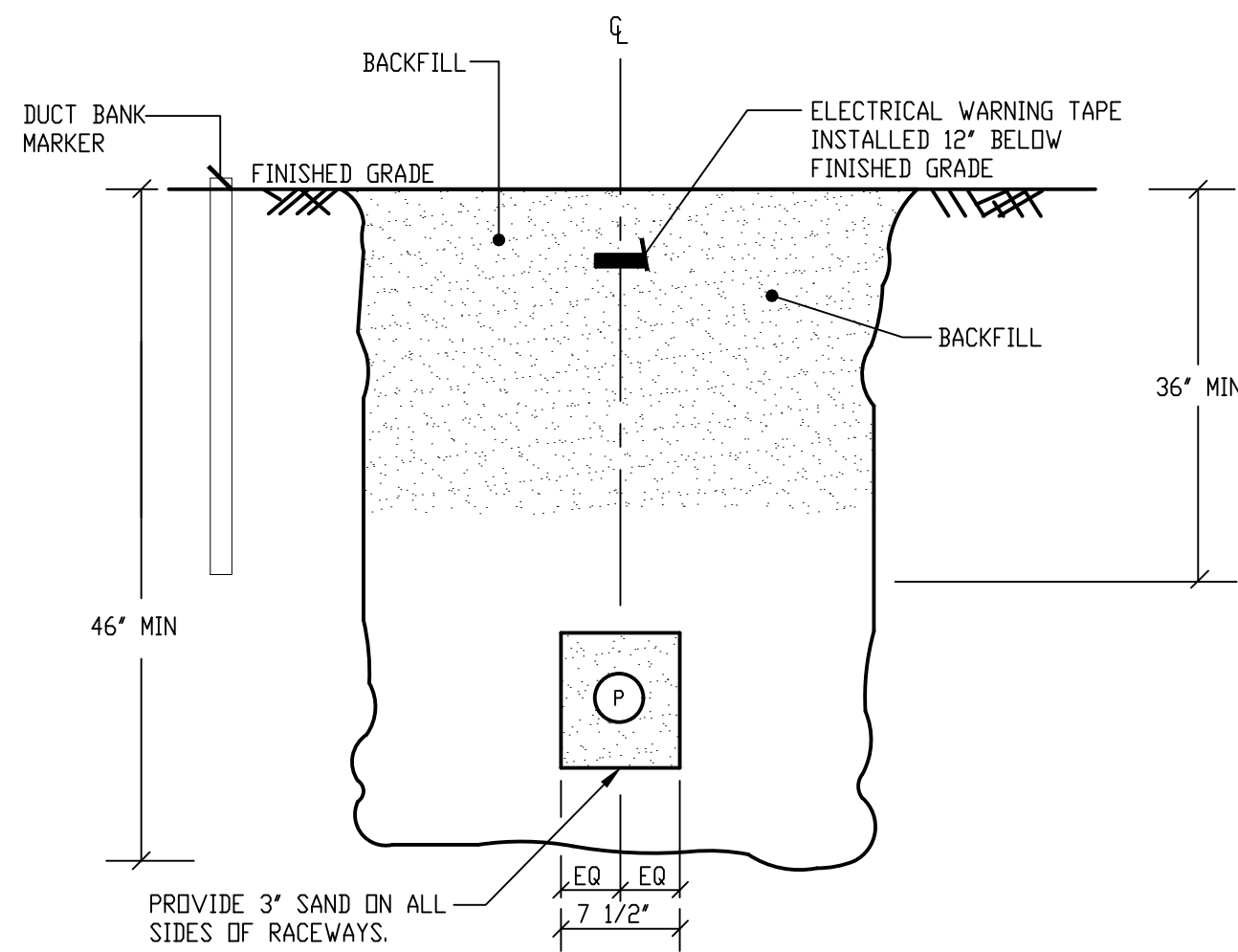
CKD JJM

SCALE AS SHOWN

E-1.1

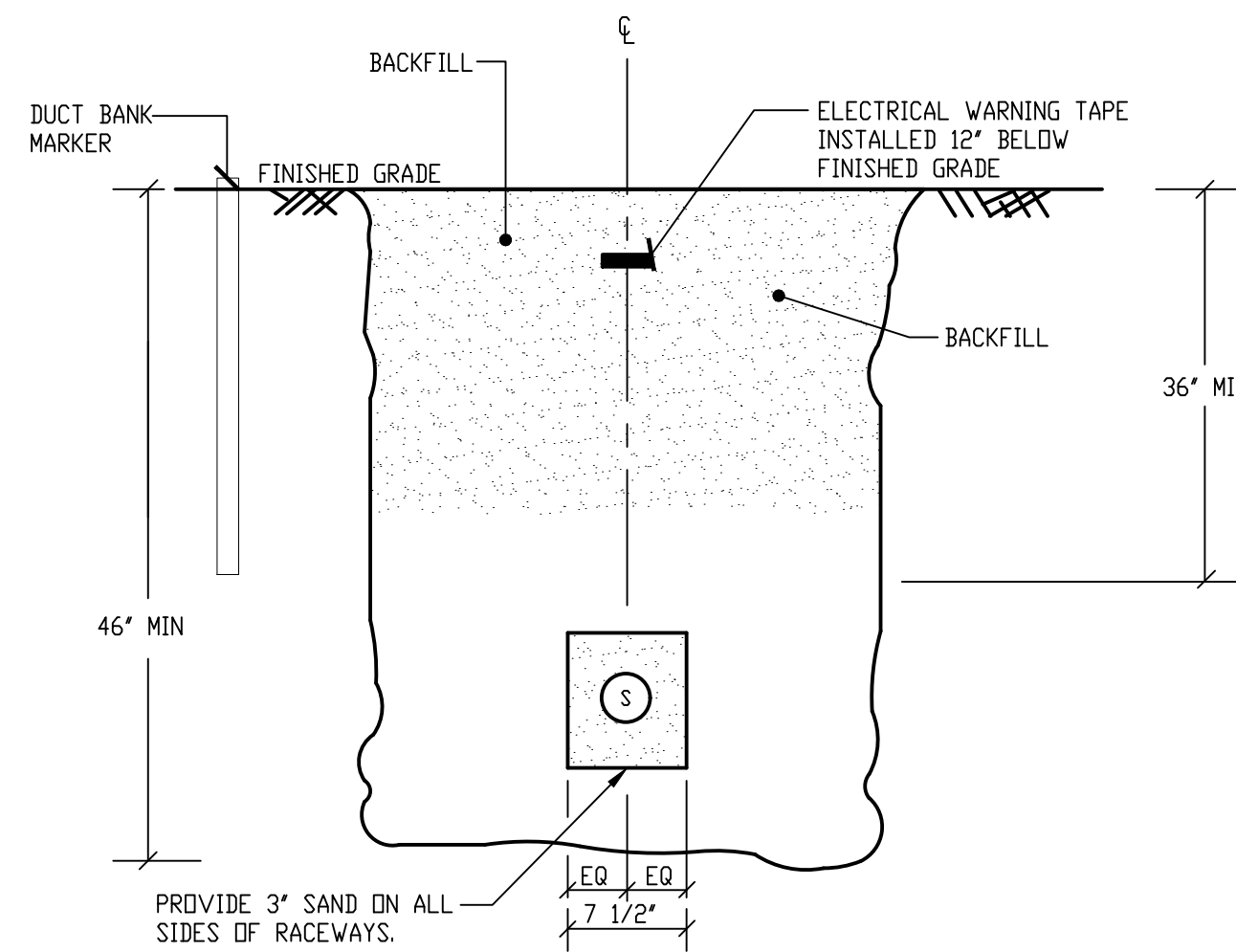
SHEET NO.

1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"



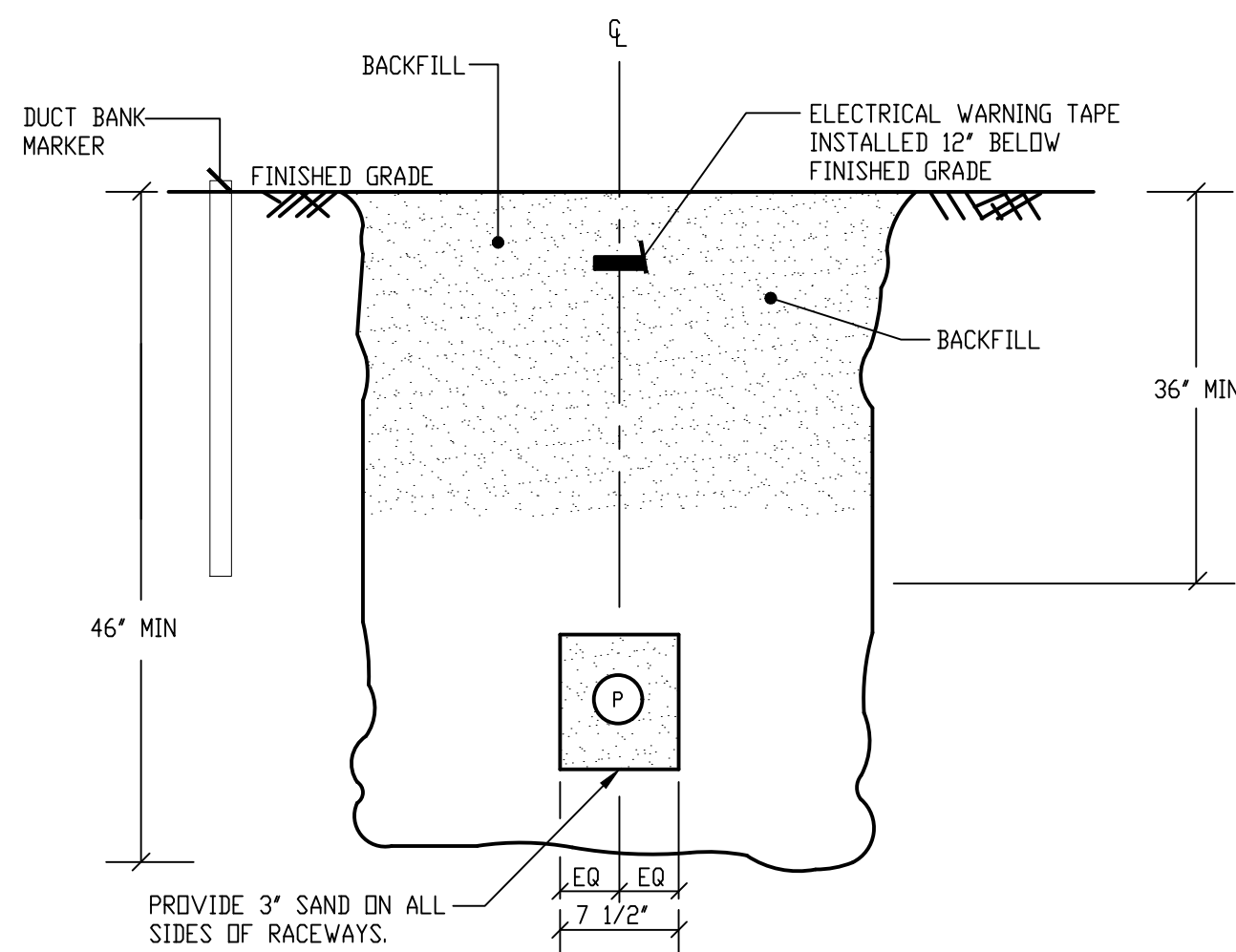
1 DUCT BANK SECTION B-B
SCALE: NTS

P 2" ELEC. - SCHED 40 PVC



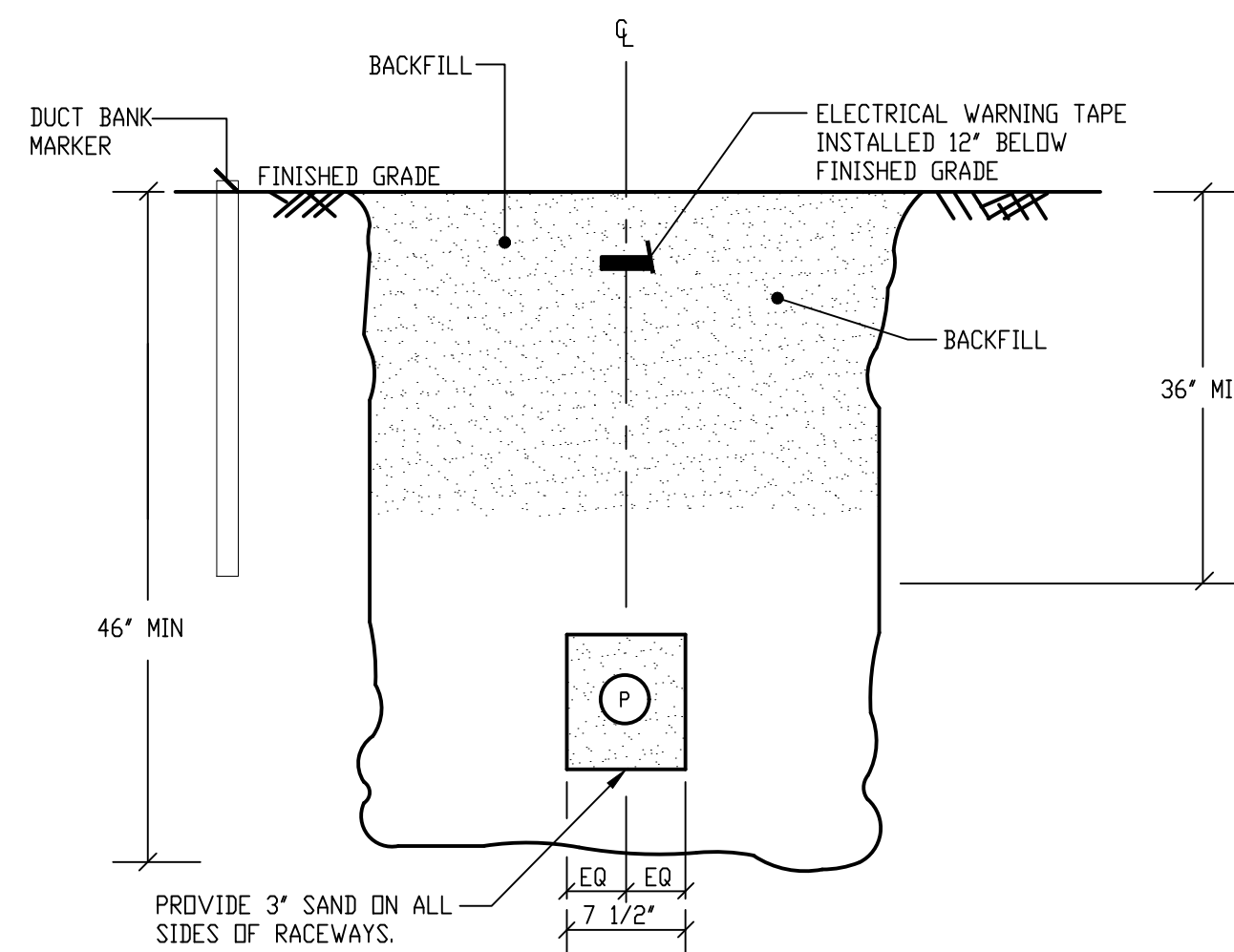
4 DUCT BANK SECTION E-E
SCALE: NTS

S 2" COMMUNICATIONS - HDPE



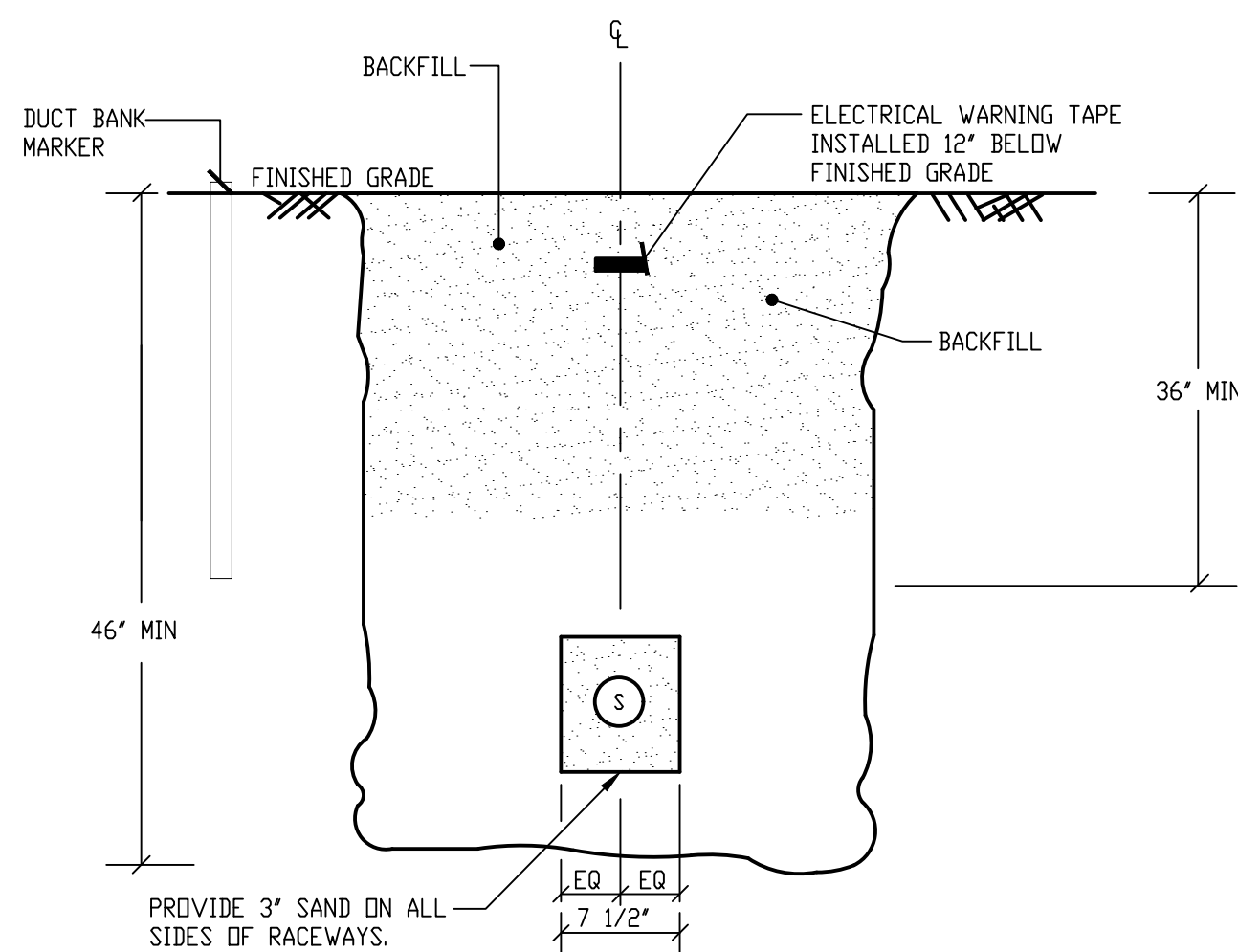
2 DUCT BANK SECTION C-C
SCALE: NTS

P 3/4" ELEC. - SCHED 40 PVC



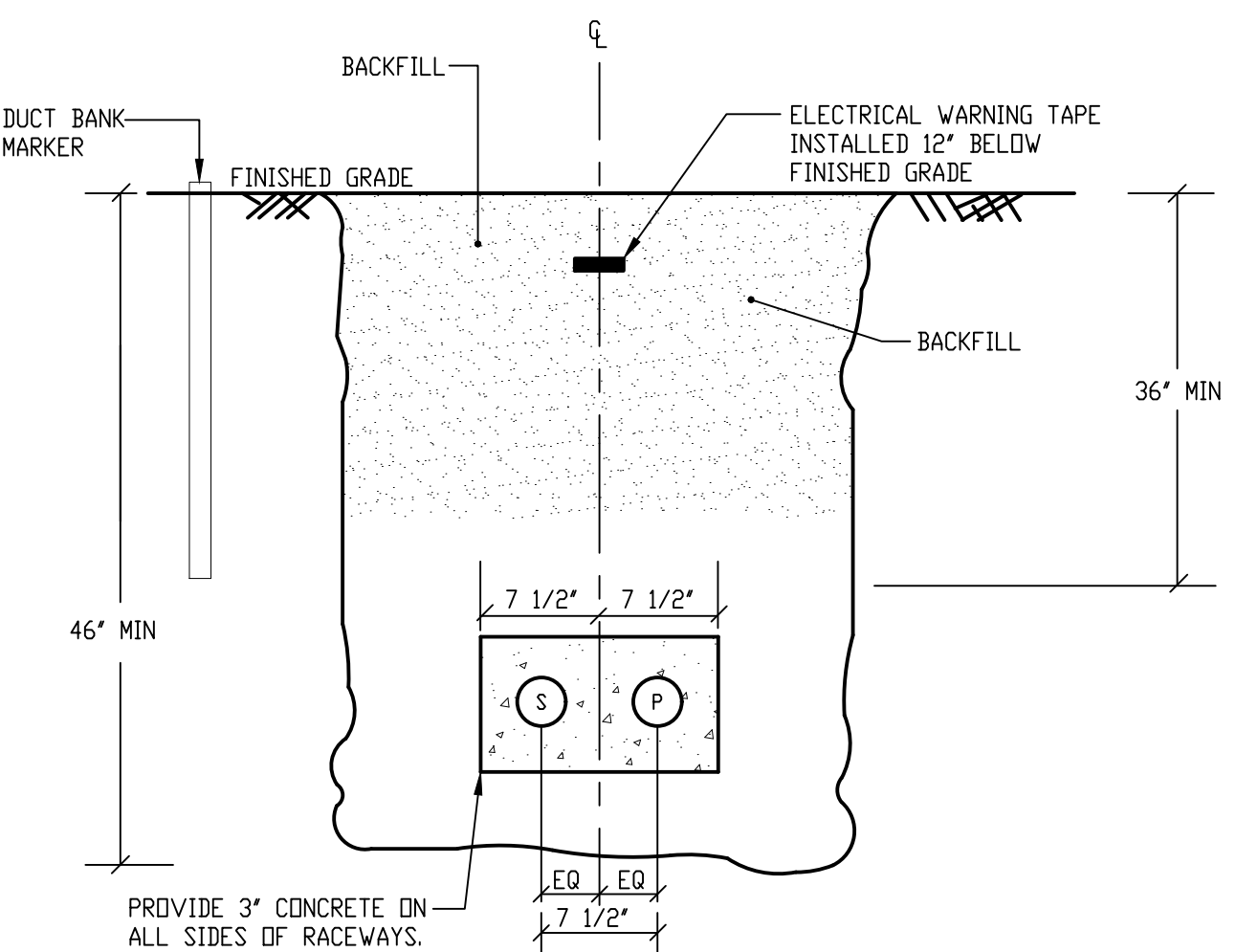
5 DUCT BANK SECTION F-F
SCALE: NTS

P 2" ELEC. - SCHED 40 PVC



3 DUCT BANK SECTION D-D
SCALE: NTS

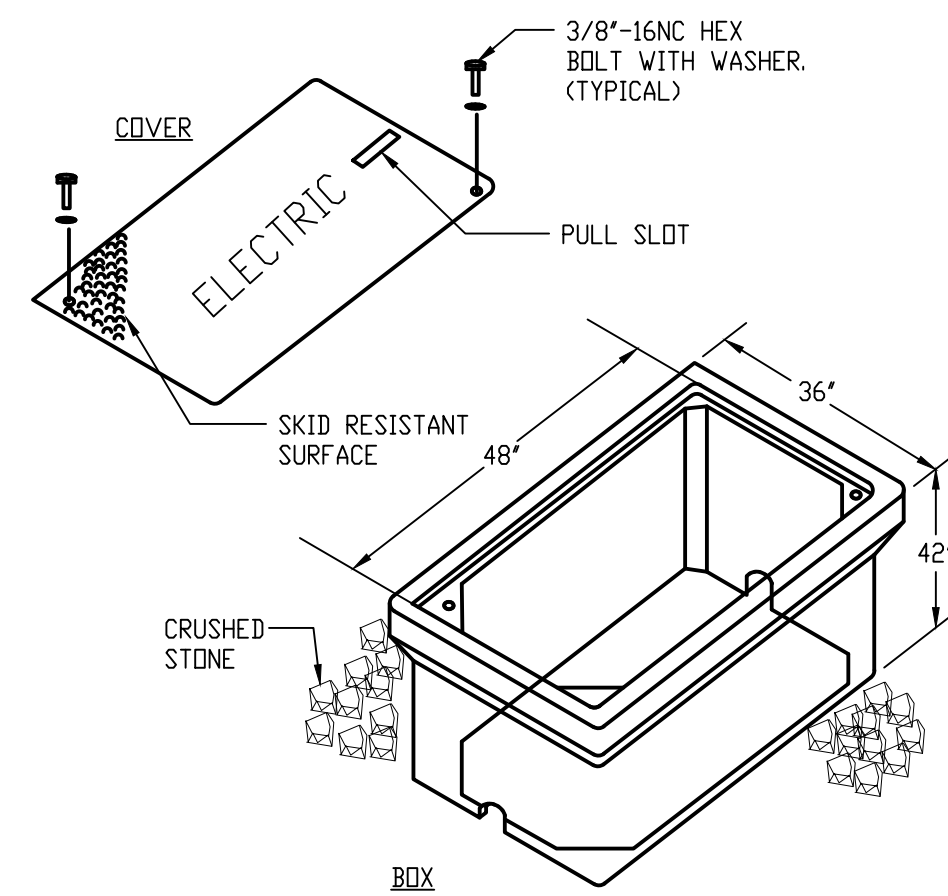
S 1" COMMUNICATIONS - HDPE



6 DUCT BANK SECTION A-A
SCALE: NTS

P 4" PRIM. ELEC. - SCHED 40 PVC

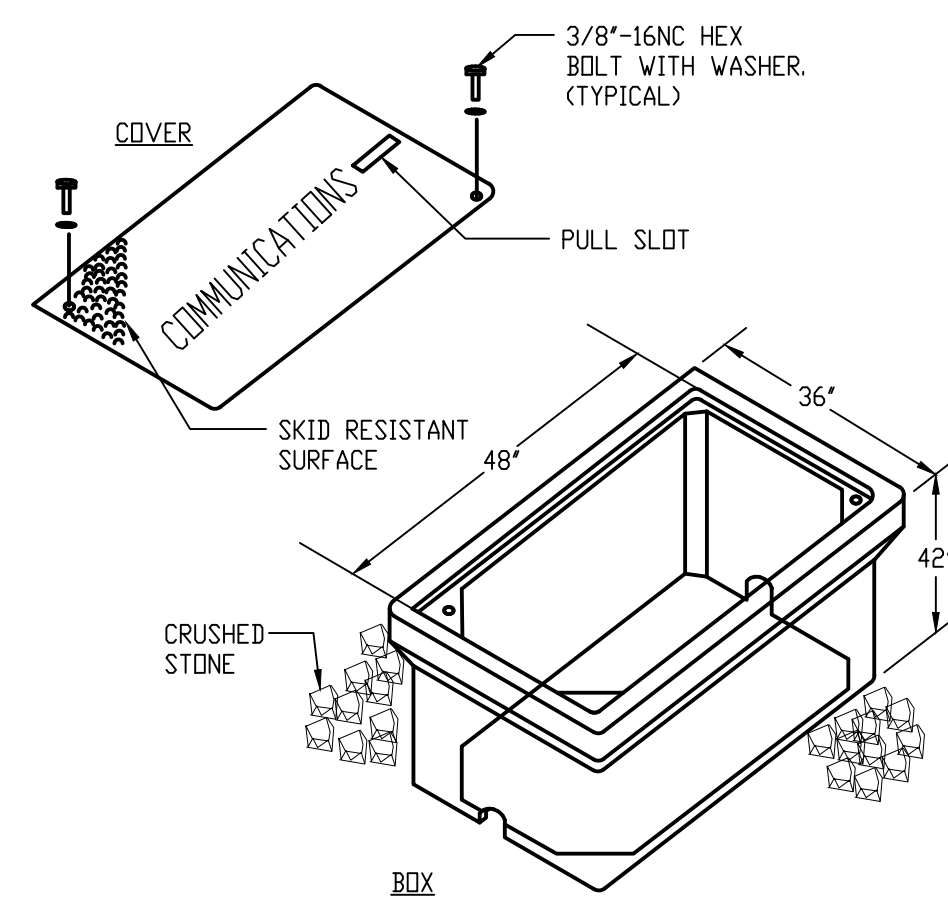
S 4" SPARE - SCHED 40 PVC



7 TYPICAL (ELECTRIC) HANDHOLE PULLBOX DETAIL
SCALE: NTS

NOTES:

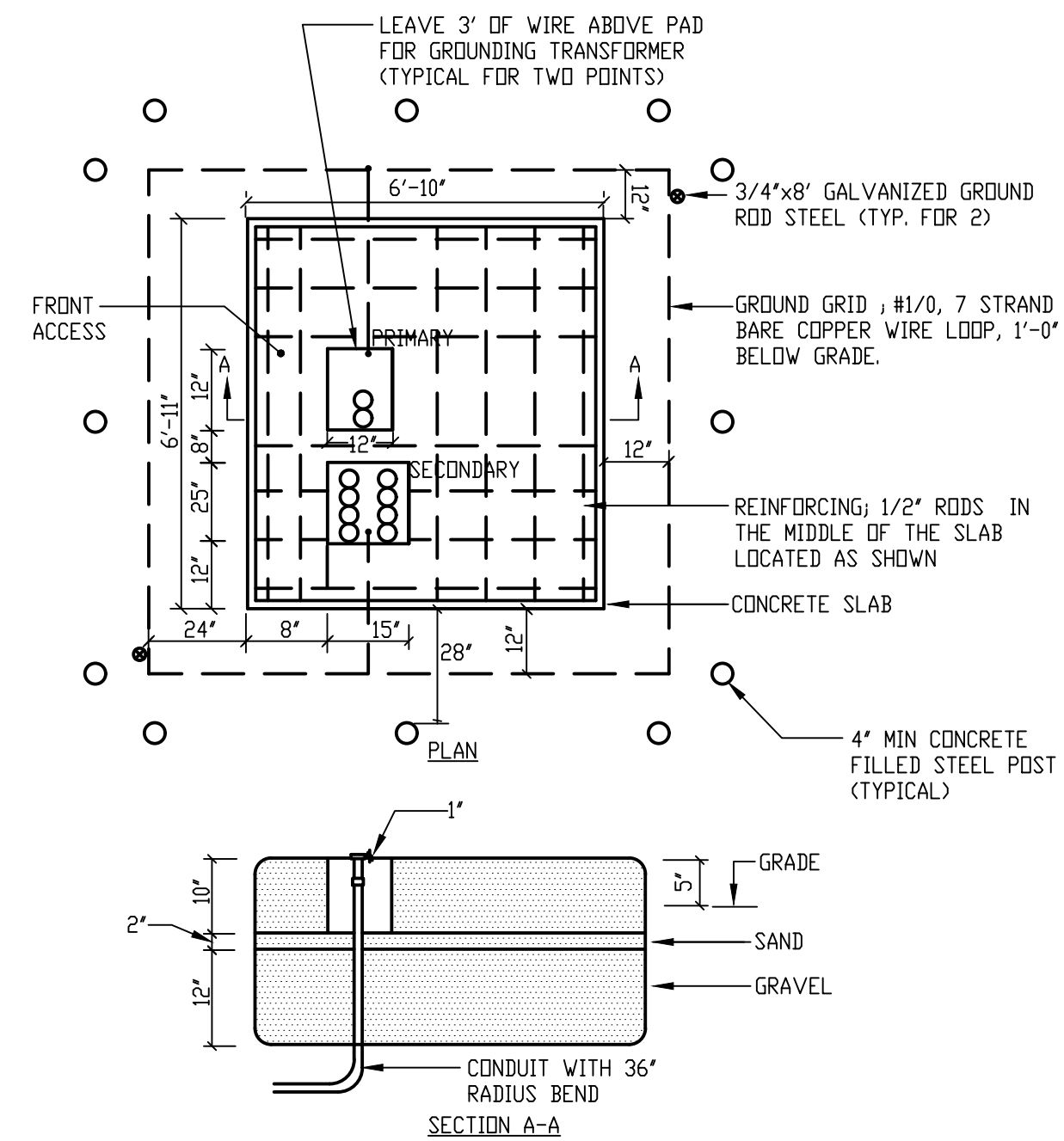
1. PHENIX PRECAST PRODUCTS 24"x36"x36" PULL BOX WITH HEAVY DUTY COVER CAT.#46665022 OR APPROVED EQUAL.
2. HANDHOLE BOX AND COVER SHALL BE FLUSH WITH SURROUNDING GRADE.
3. ENCLOSURES AND COVERS SHALL BE CONCRETE GRAY COLOR AND RATED FOR NO LESS THAN 8000 LBS. OVER A 10"x10" AREA AND BE DESIGNED AND TESTED TO TEMPERATURES OF -50° F.
4. MATERIAL COMPRESSIVE STRENGTH SHOULD BE NO LESS THAN 11,000 P.S.I.
5. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.5.



8 TYPICAL (COMMUNICATIONS) HANDHOLE PULLBOX DETAIL
SCALE: NTS

NOTES:

1. PHENIX PRECAST PRODUCTS 24"x36"x36" PULL BOX WITH HEAVY DUTY COVER CAT.#46665022 OR APPROVED EQUAL.
2. HANDHOLE BOX AND COVER SHALL BE FLUSH WITH SURROUNDING GRADE.
3. ENCLOSURES AND COVERS SHALL BE CONCRETE GRAY COLOR AND RATED FOR NO LESS THAN 8000 LBS. OVER A 10"x10" AREA AND BE DESIGNED AND TESTED TO TEMPERATURES OF -50° F.
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5. COVERS SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.5.



9 PADMOUNTED TRANSFORMER FOUNDATION DETAIL
SCALE: NTS



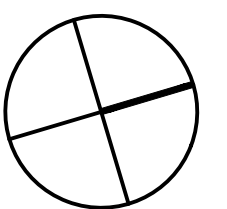
RAY DUNETZ LANDSCAPE
ARCHITECTURE, INC.
179 GREEN STREET
BOSTON, MA 02130
T: 617-524-0265



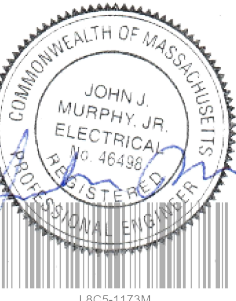
06.30.23 BID DOCUMENTS

DATE REVISION

REVISIONS



NORTH



STAMP

SEVER STREET PARK
WORCESTER, MA

PROJECT

ELECTRICAL SITE DETAILS

DRAWING TITLE

CONTRACT NO.

DATE 03.31.23

DRAWN MTG

CKD JJM

SCALE AS SHOWN SHEET NO.

E-2.1