



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Legend

Legend table with columns: Exist., Prop., and descriptions for various site features like Property Line, Pavement, Utilities, and Landmarks.

Abbreviations

Abbreviations table with columns: General and Utility, listing symbols for items like ABAN (Abandon), ACR (Accessible Curb Ramp), and CB (Catch Basin).

Notes

- Notes section containing 14 numbered items detailing contractor responsibilities, safety protocols, and site management requirements.

Layout and Materials

- Layout and Materials section containing 6 numbered items regarding dimensions, curbing, and pavement specifications.

Demolition

- Demolition section containing 5 numbered items detailing the removal of existing structures and utilities.

Erosion Control

- Erosion Control section containing 5 numbered items regarding site stabilization and erosion prevention measures.

Existing Conditions Information

- Existing Conditions Information section containing 3 numbered items detailing site conditions and survey data.

Industrial Performance Standards

- Industrial Performance Standards section containing 7 numbered items regarding utility materials and installation standards.

Document Use

- Document Use section containing 3 numbered items regarding the use of CADD documents and project specifications.

NOTES section with a table for 'Approved by:' and a signature line for 'Devens Enterprise Commission'.

Commonwealth Fusion Systems Campus Building 2

111 Hospital Road
Devens, MA

Revision table with columns: No., Revision, Date, and Apprv.

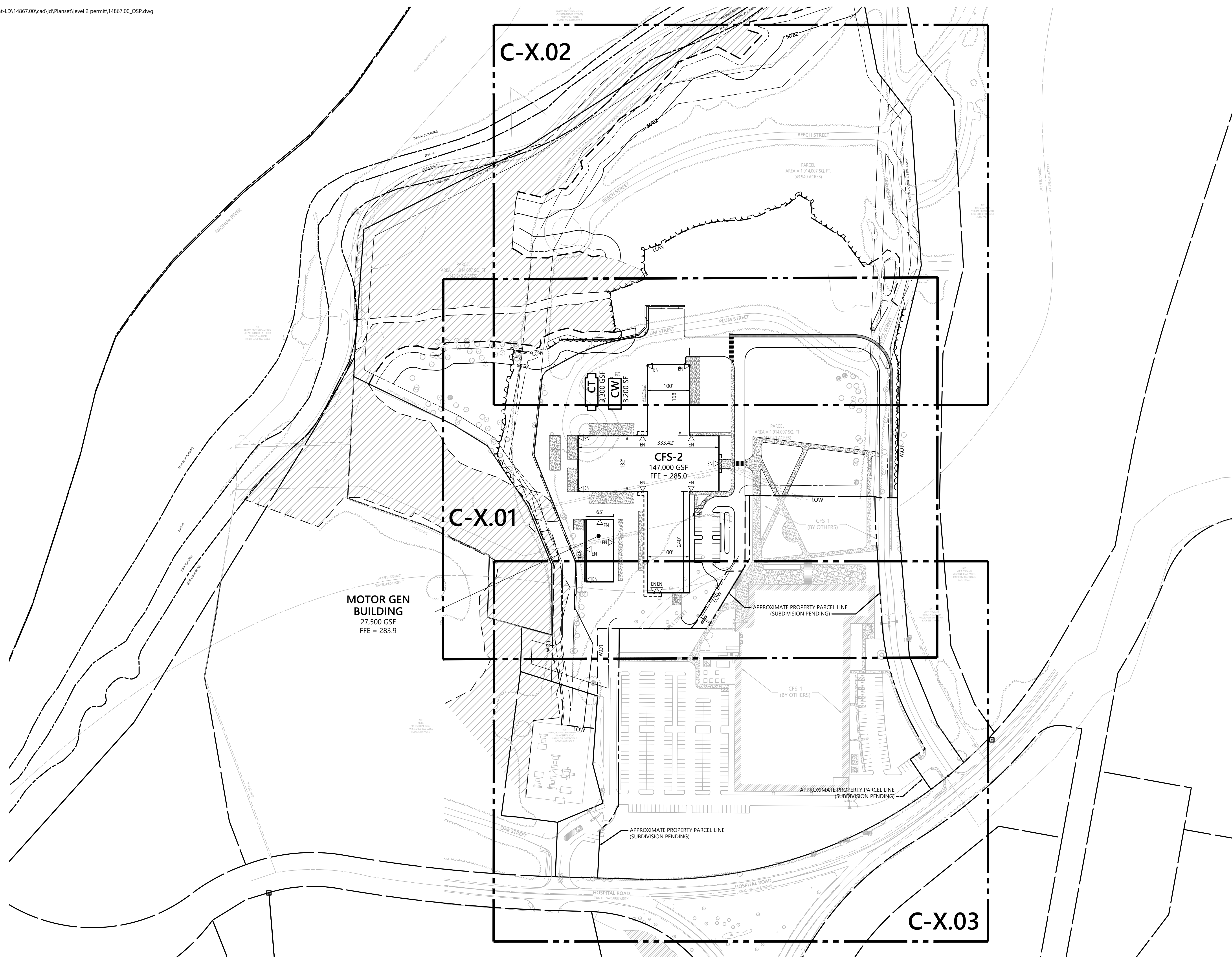
Designed by: Issued for: **Level Two Permit** Date: **Nov 5, 2020**

Not Approved for Construction Legend and General Notes section with a signature and date.

Professional Engineer seal for Jeffrey Black, No. 54531, dated 11-4-2020. Drawing Number: C-1.00. Sheet 1 of 24. Project Number: 14867.00.



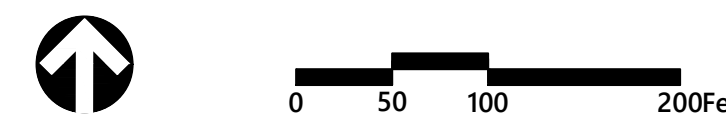
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Commonwealth Fusion Systems Campus Building 2

111 Hospital Road
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Issued for: **Level Two Permit** Date: **Nov 5, 2020**

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Index Plan



C-1.01

Sheet 2 of 24

Project Number 14867.00

Zoning Summary Chart



Zoning District(S):	INNOVATION & TECHNOLOGY BUSINESS	
Overlay District(S):	AQUIFER / WATERSHED	
Zoning Regulation Requirements	Required	Provided
MINIMUM LOT AREA	2.0 Acres	32.9 Acres
FRONTAGE	100.0 Feet	200 Feet
FRONT YARD SETBACK	25 Feet	672 Feet
SIDE YARD SETBACK	25 Feet	72 Feet
REAR YARD SETBACK	25 Feet	542 Feet
MAXIMUM BUILDING HEIGHT	75 Feet	58 Feet
MAXIMUM FLOOR AREA RATIO	0.5	0.13
MAXIMUM IMPERVIOUS	75.0 %	25.0 %

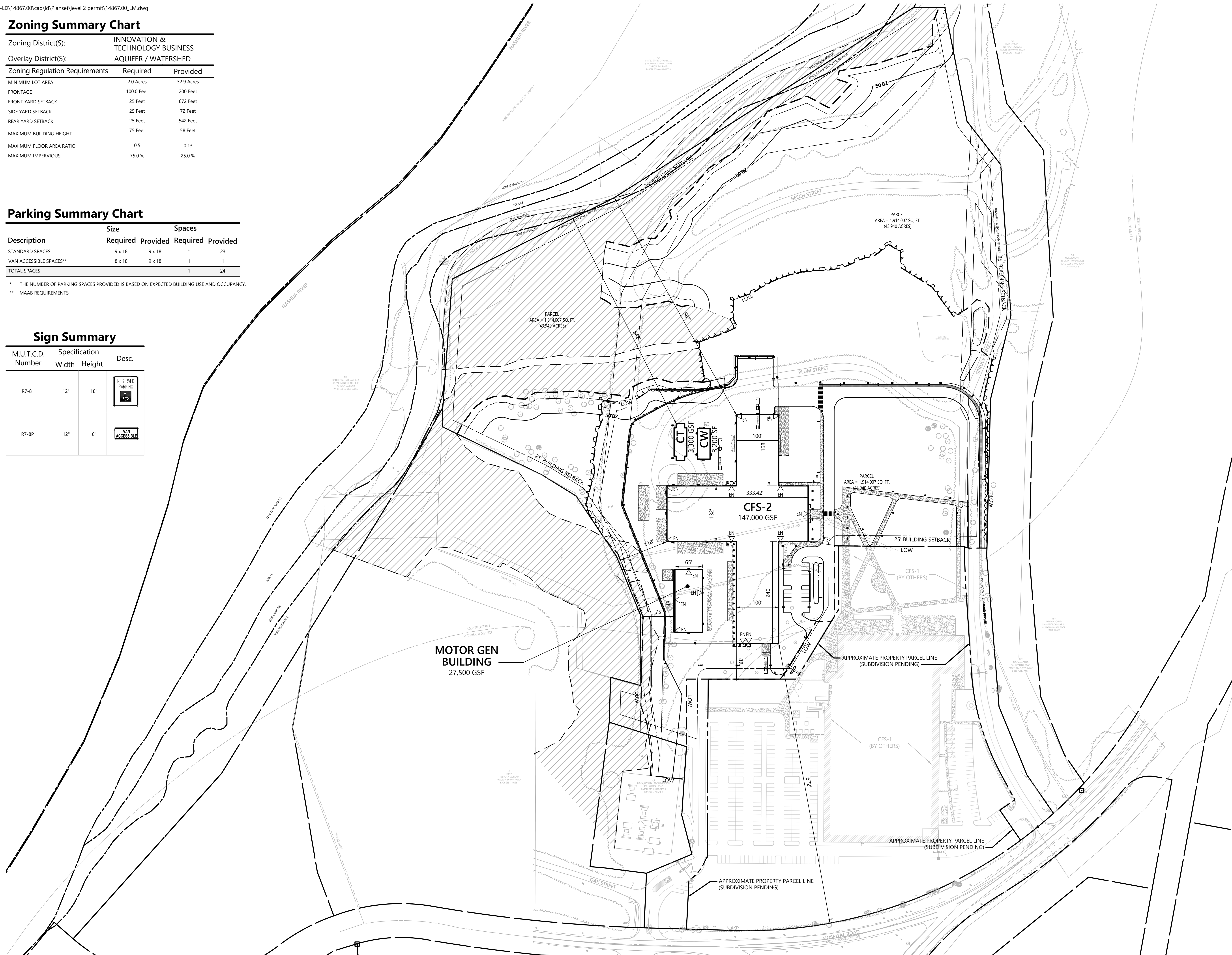
Parking Summary Chart

Description	Size		Spaces	
	Required	Provided	Required	Provided
STANDARD SPACES	9 x 18	9 x 18	-	23
VAN ACCESSIBLE SPACES**	8 x 18	9 x 18	1	1
TOTAL SPACES			1	24

* THE NUMBER OF PARKING SPACES PROVIDED IS BASED ON EXPECTED BUILDING USE AND OCCUPANCY.
 ** MAAB REQUIREMENTS

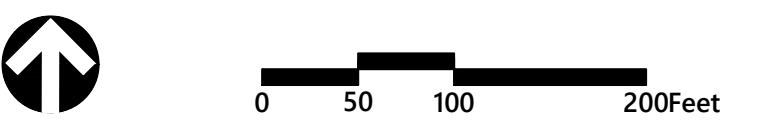
Sign Summary

M.U.T.C.D. Number	Specification		Desc.
	Width	Height	
R7-8	12"	18"	
R7-8P	12"	6"	



NOTES

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Commonwealth Fusion Systems Campus Building 2
 111 Hospital Road
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Not Approved for Construction
Overall Layout and Materials Plan

Drawing Number
C-3.00

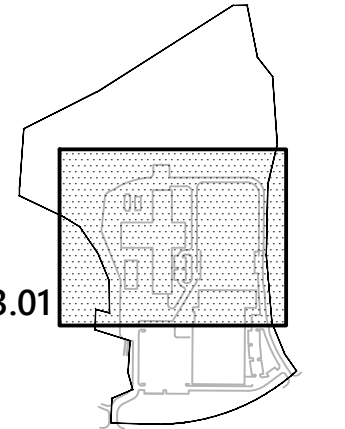
Sheet **4** of **24**

Project Number
 14867.00





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C3.01

Key

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0 20 40 80 Feet

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Building 2**

111 Hospital Road
Devens, MA

No. Revision Date Appr.

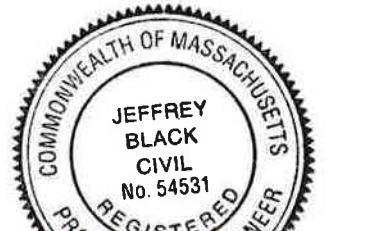
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**Layout and
Materials Plan 1**

N/F
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161 HOSPITAL RD
PARCEL 024-D-0099-
BOOK 26317 PAC

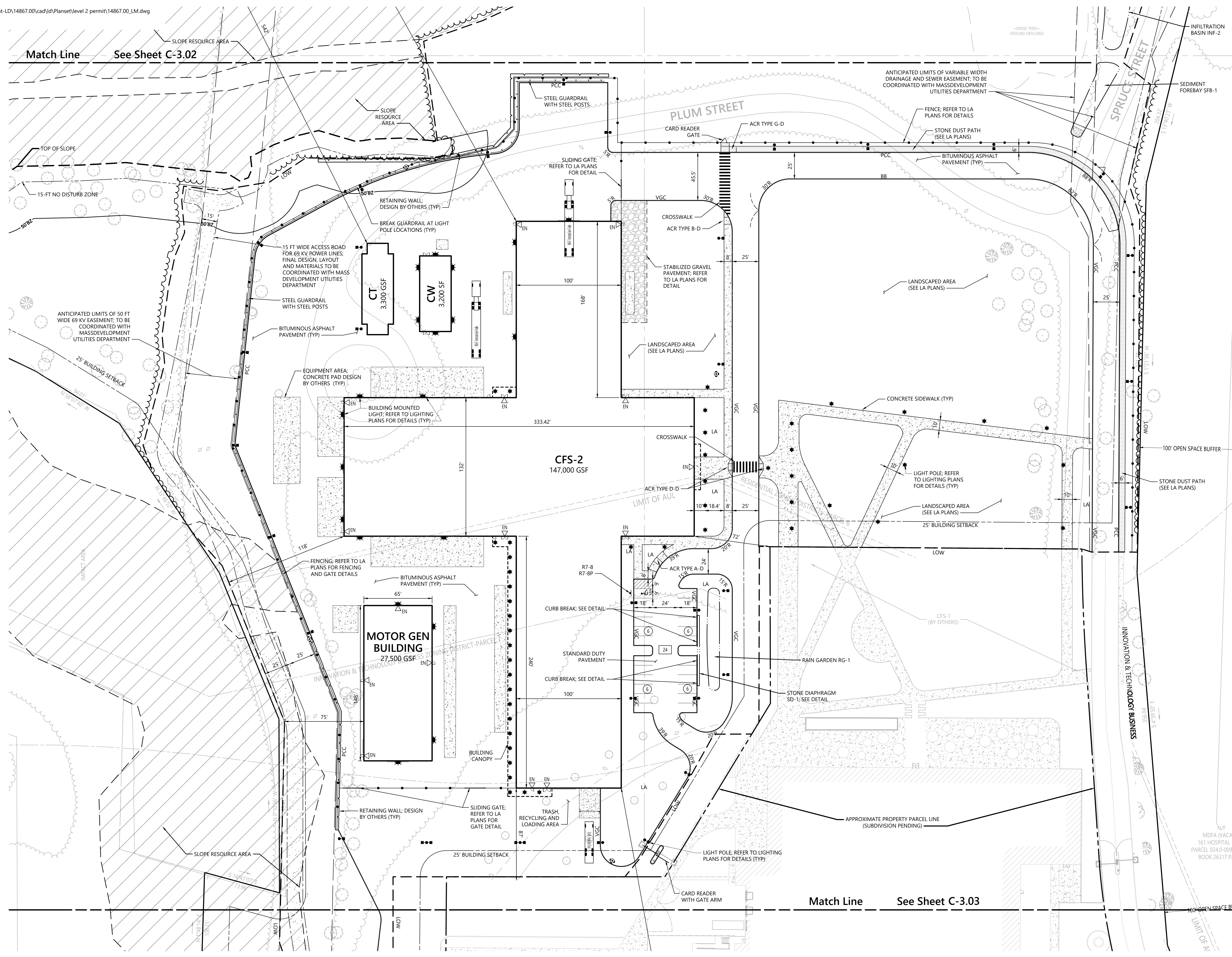


11-4-2020

C-3.01

Sheet 5 of 24

Project Number
14867.00

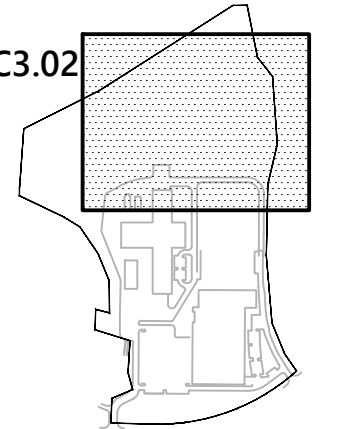


Match Line See Sheet C-3.02

Match Line See Sheet C-3.03



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N/F
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59 GRANT ROAD F
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26317 PAGE

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0 20 40 80 Feet

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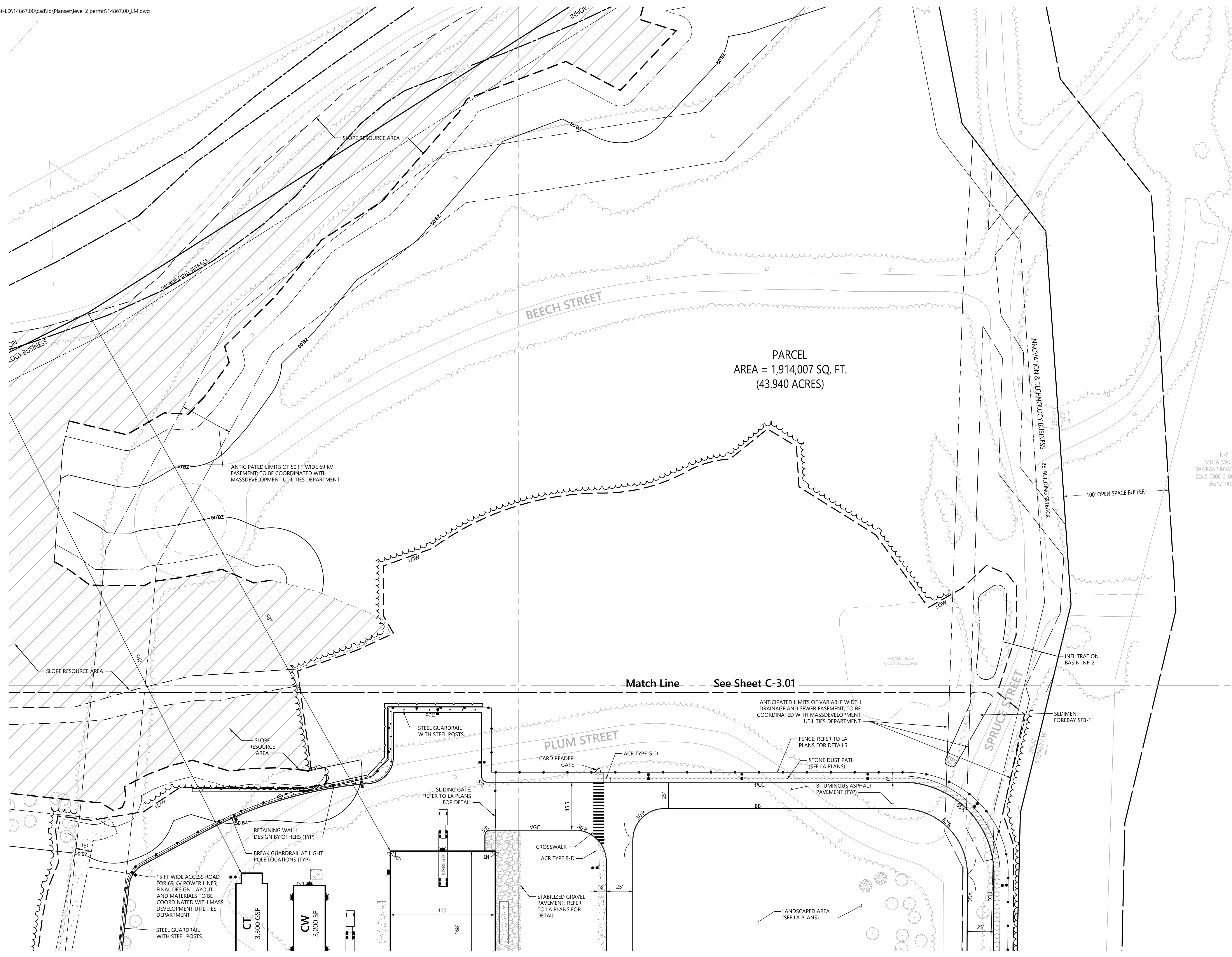
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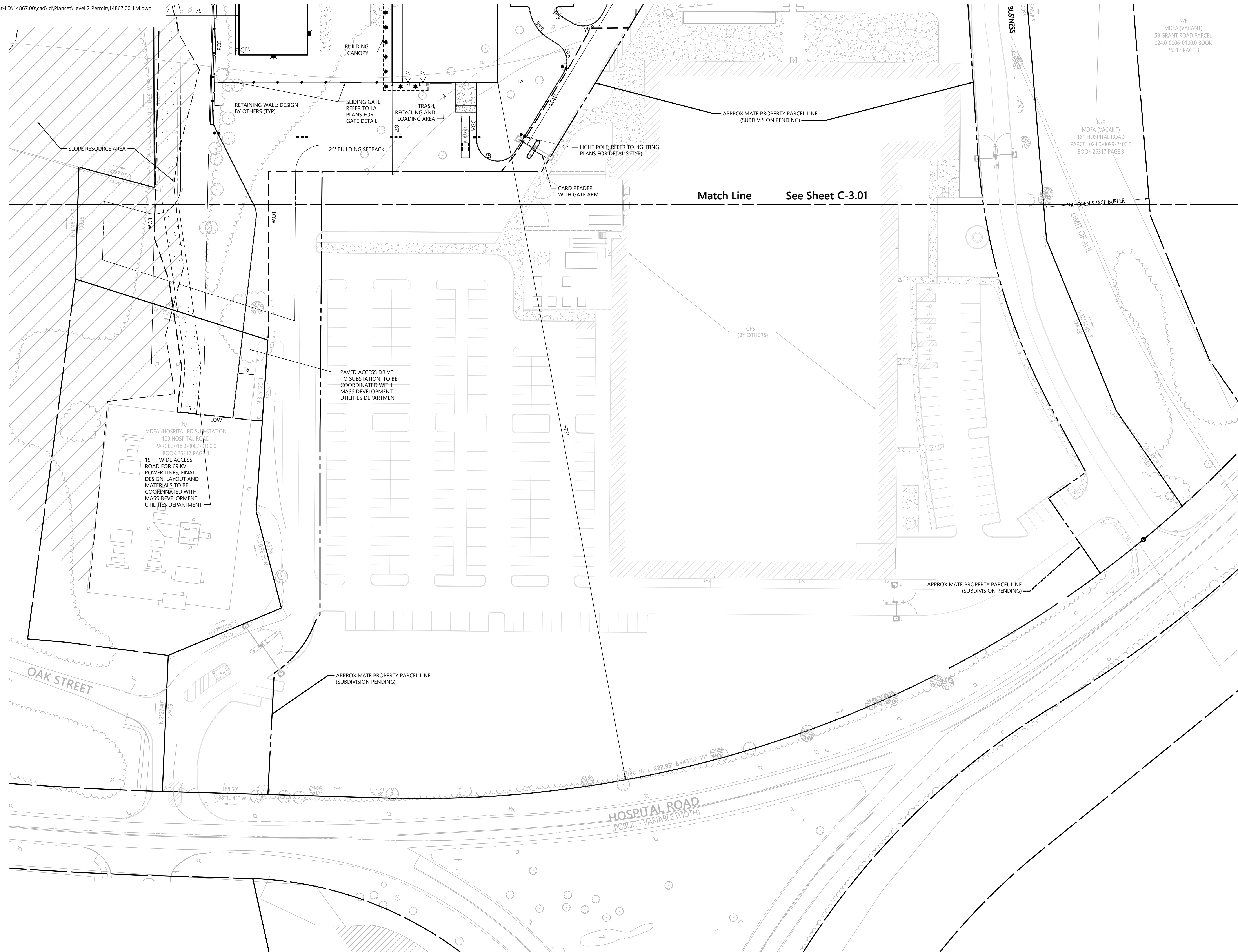
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Sheet 6 of 24

Project Number
14867.00

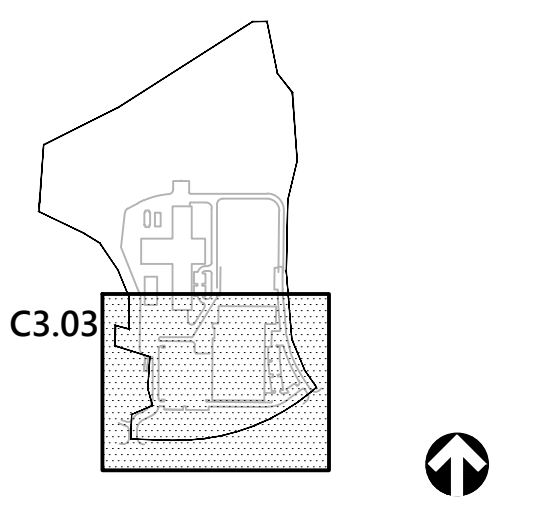


Match Line See Sheet C-3.01



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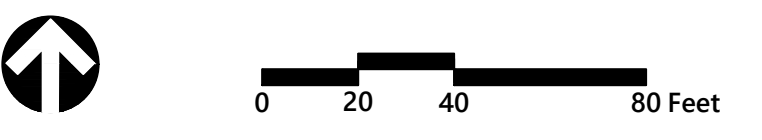
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**Layout and
Materials Plan 3**

Drawing Number

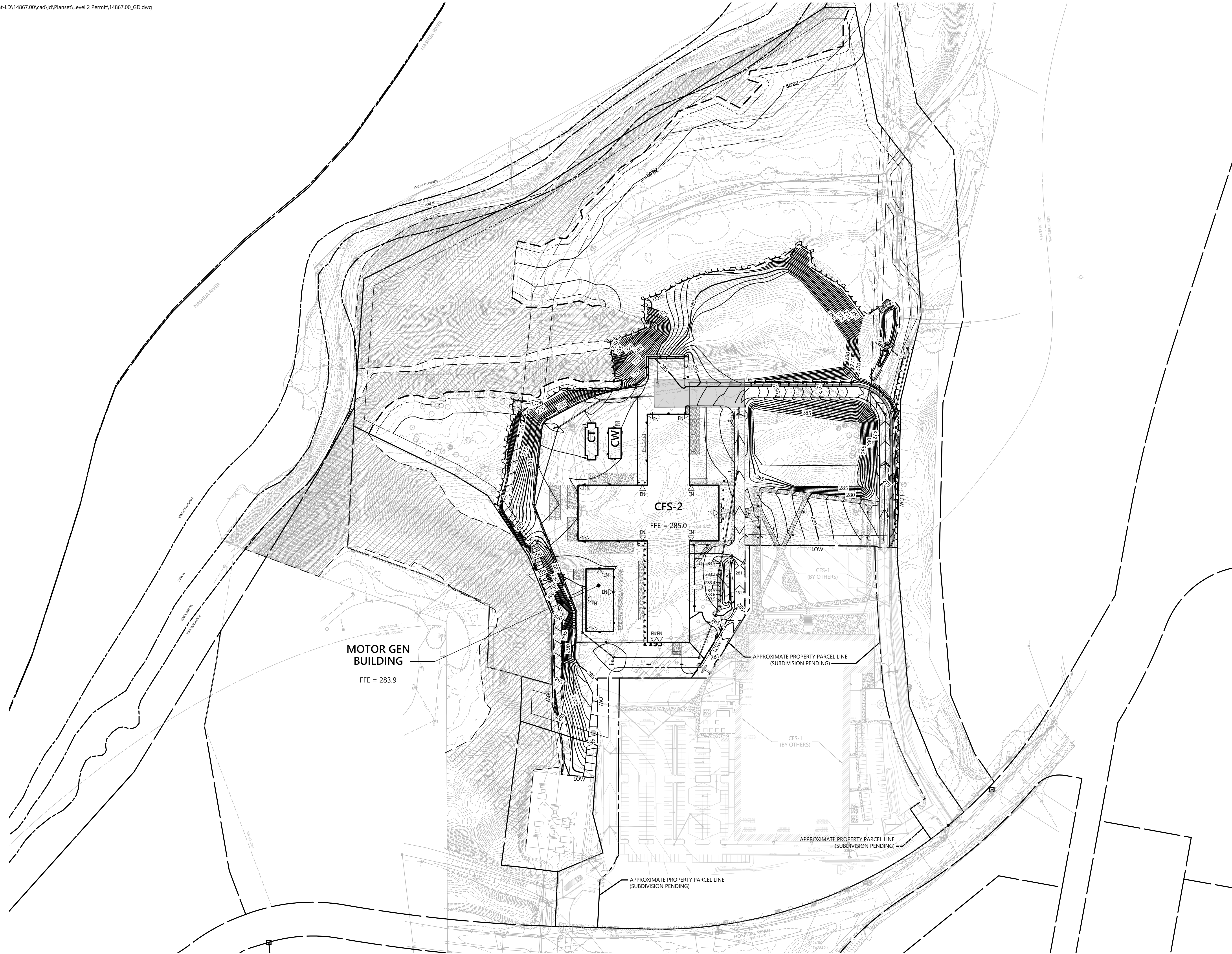
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Sheet 7 of 24

Project Number
14867.00



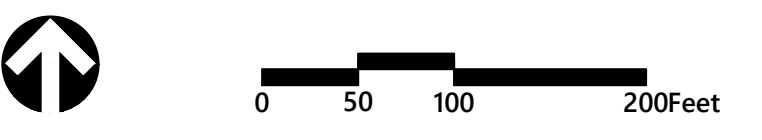
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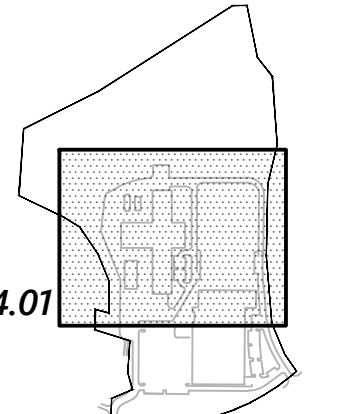
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Overall Grading and Drainage Plan

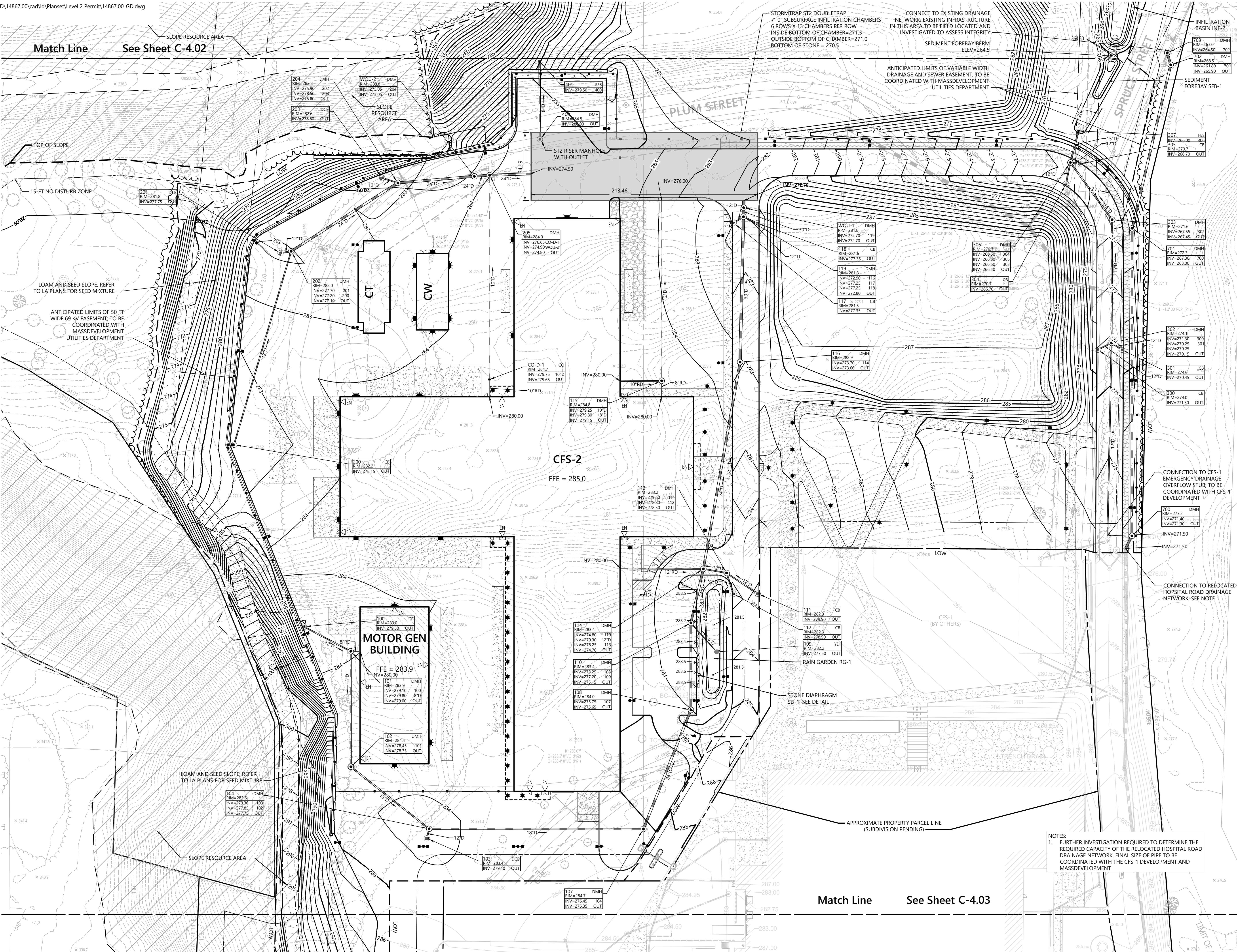
Drawing Number
C-4.00
 Sheet 8 of 24
 Project Number 14867.00



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C4.01



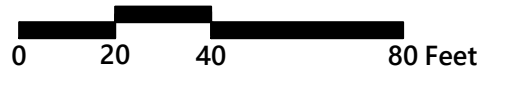
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No.	Revision	Date	Apprv.

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**Grading and
Drainage Plan 1**

Drawing Number

C-4.01

Sheet of
9 of 24

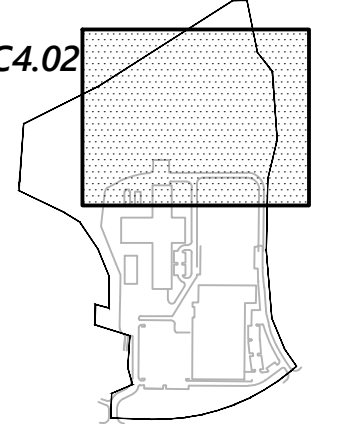
Project Number
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0 20 40 80 Feet

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**Grading and
Drainage Plan 2**

Drawing Number

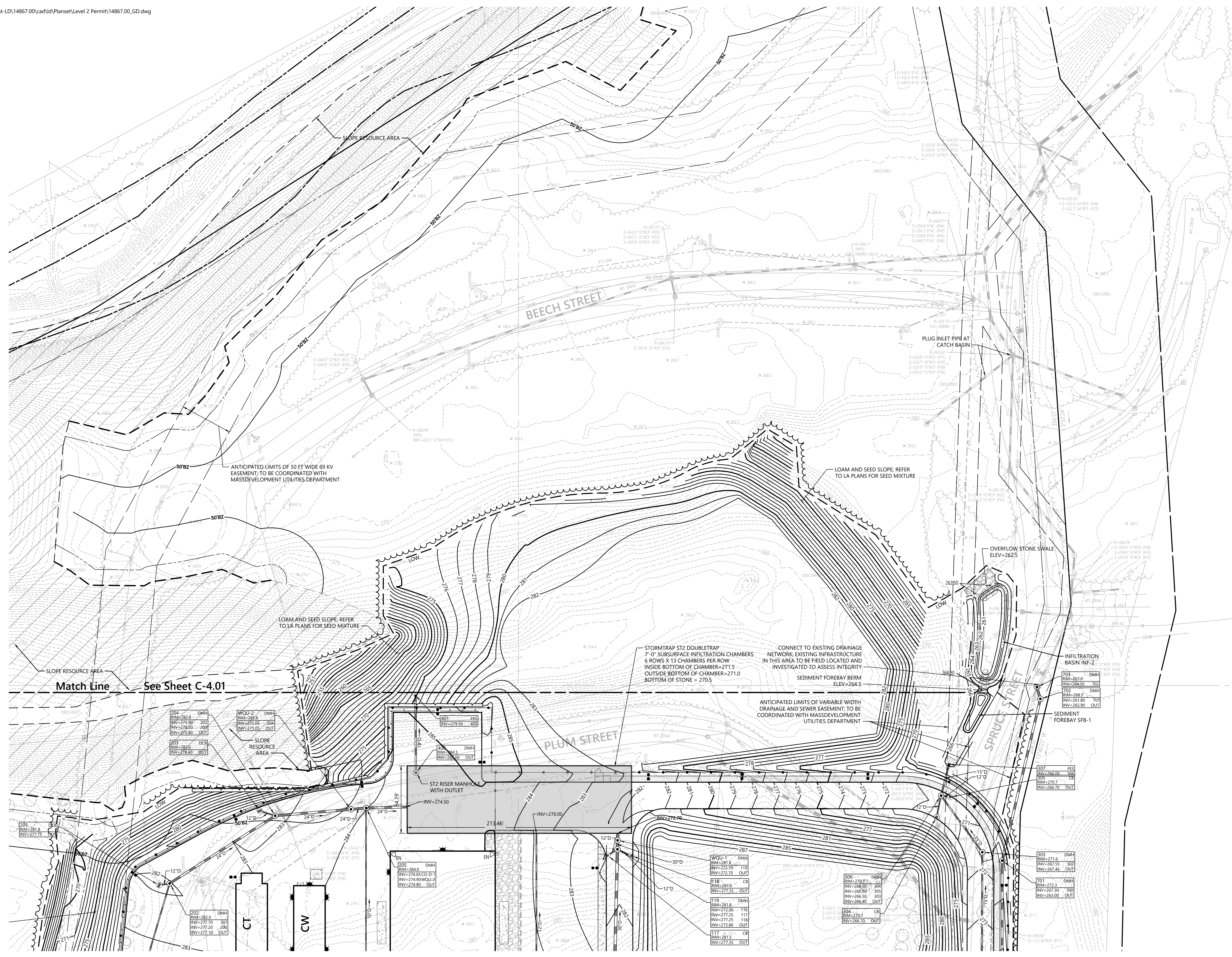
C-4.02

Sheet **10** of **24**

Project Number
14867.00

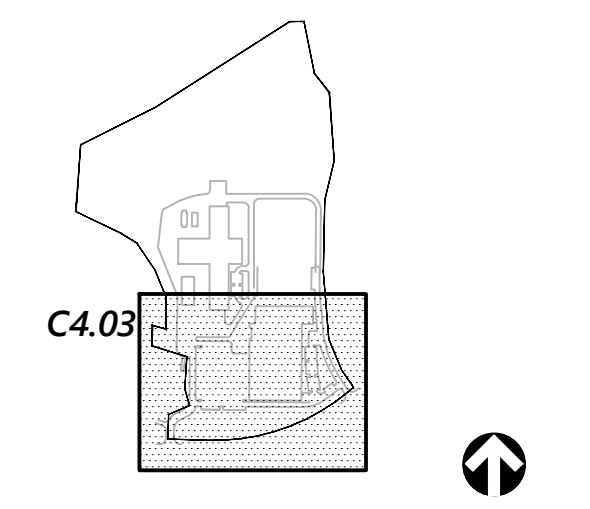


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Match Line See Sheet C-4.01

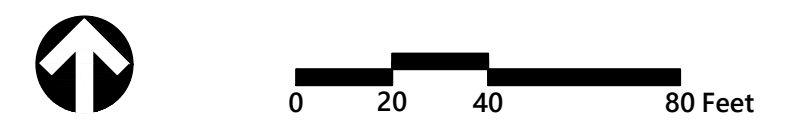
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Grading and
Drainage Plan 3



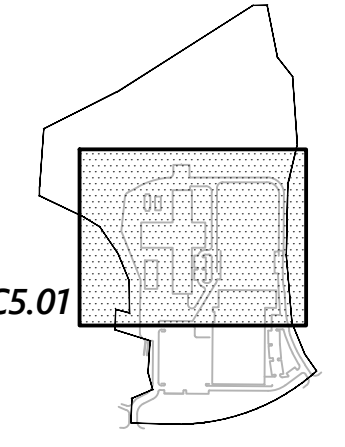
C-4.03

Sheet 11 of 24

Project Number 14867.00

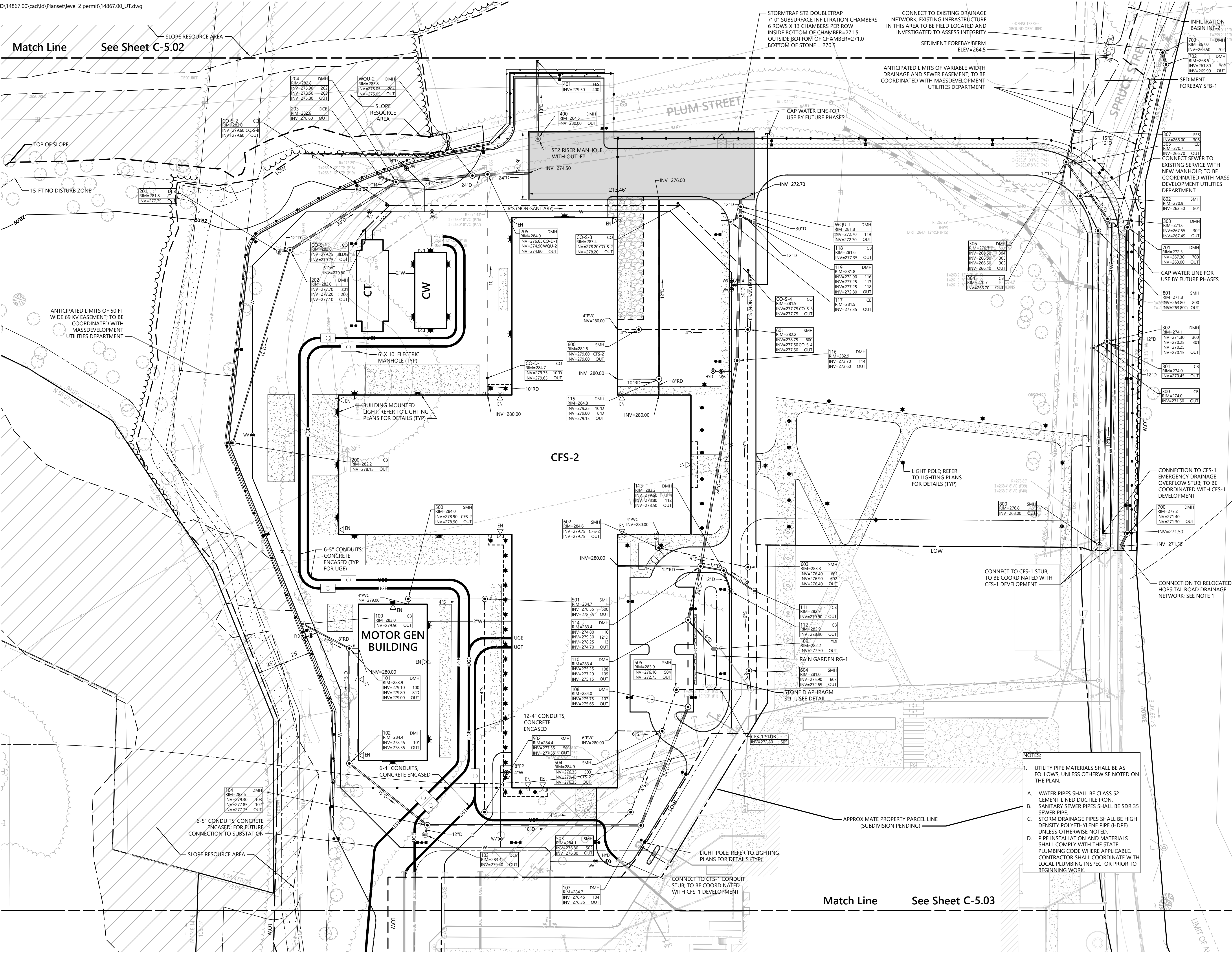


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C5.01

Match Line See Sheet C-5.02



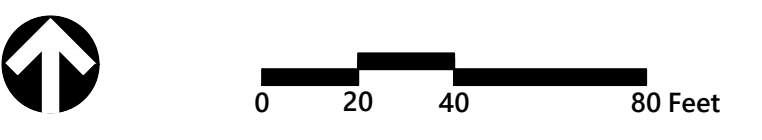
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Cleaning Title

Utility Plan 1

Drawing Number



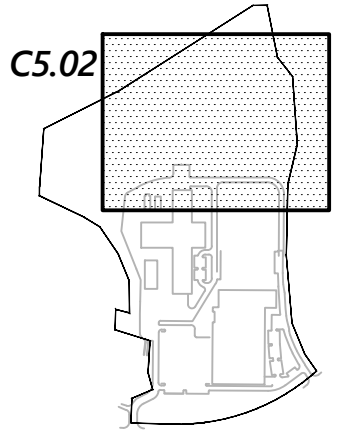
C-5.01

Sheet 13 of 24

Project Number
14867.00

- NOTES:**
- UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - A. WATER PIPES SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON.
 - B. SANITARY SEWER PIPES SHALL BE SDR 35 SEWER PIPE.
 - C. STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE NOTED.
 - D. PIPE INSTALLATION AND MATERIALS SHALL COMPLY WITH THE STATE PLUMBING CODE WHERE APPLICABLE. CONTRACTOR SHALL COORDINATE WITH LOCAL PLUMBING INSPECTOR PRIOR TO BEGINNING WORK.

Match Line See Sheet C-5.03



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Level Two Permit Nov 5, 2020

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Utility Plan 2

Drawing Number

C-5.02

Sheet of
14 24

Project Number
14867.00



11-4-2020



CONNECT TO EXISTING DRAINAGE NETWORK; EXISTING INFRASTRUCTURE IN THIS AREA TO BE FIELD LOCATED AND INVESTIGATED TO ASSESS INTEGRITY

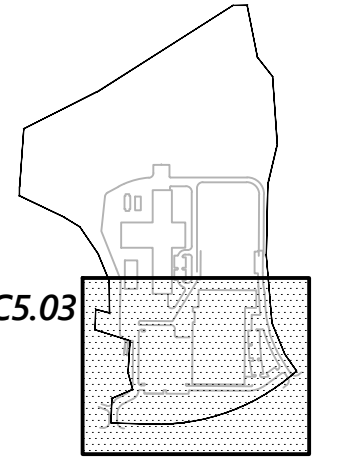
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Match Line - See Sheet C-5.01

ANTICIPATED LIMITS OF VARIABLE WIDTH DRAINAGE AND SEWER EASEMENT; TO BE COORDINATED WITH MASSDEVELOPMENT UTILITIES DEPARTMENT

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Utility Plan 3

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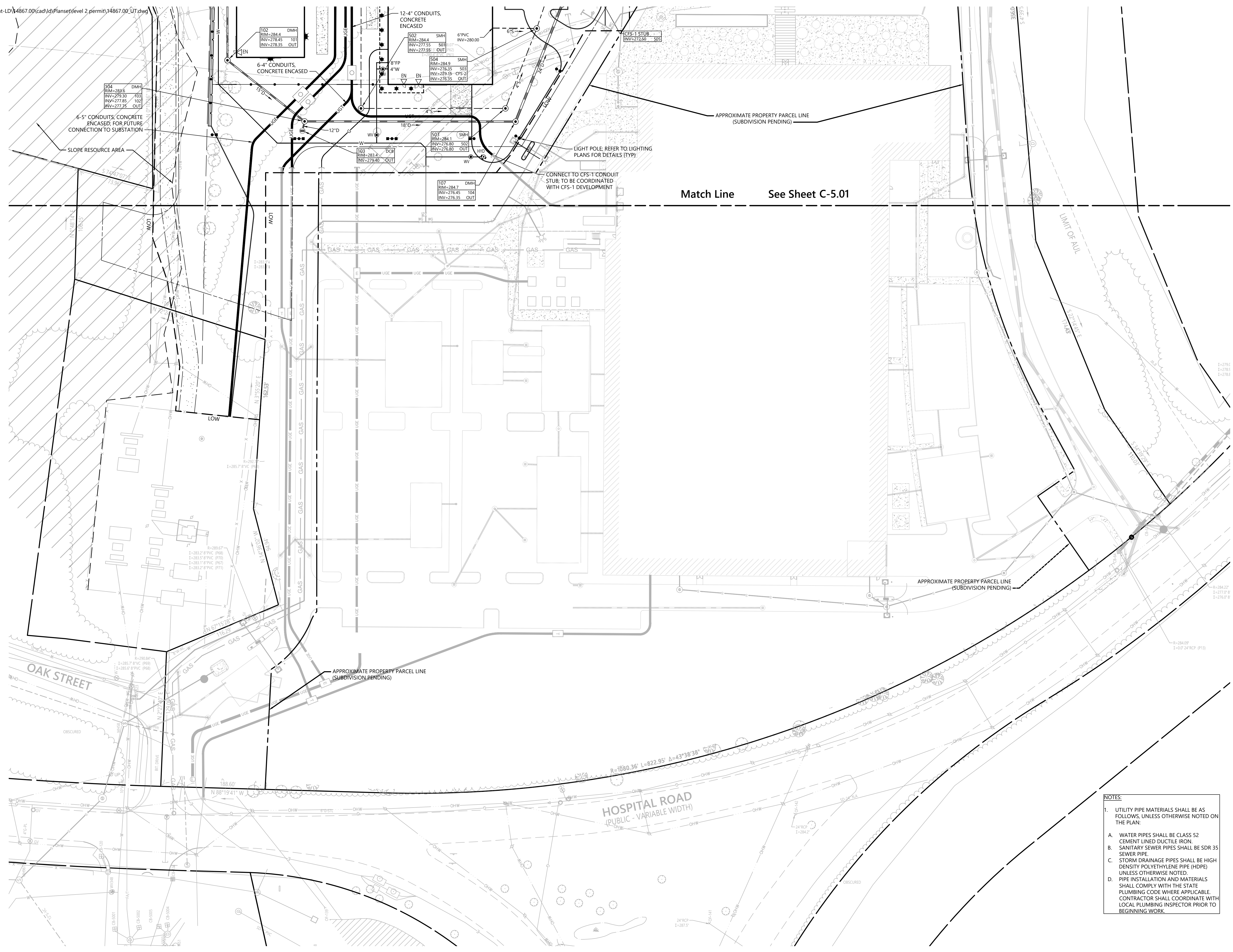
C-5.03

Sheet **15** of **24**

Project Number
14867.00



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11-4-2020



Document Use:

THIS BASE PLAN ILLUSTRATES THE MINIMUM PERIMETER EROSION & SEDIMENTATION CONTROLS. THE SWPPP OPERATOR SHALL UPDATE THIS PLAN THROUGHOUT THE DURATION OF CONSTRUCTION TO SHOW THE LOCATIONS OF PROPOSED/CONSTRUCTED E&S CONTROLS DEEMED NECESSARY TO MEET THE REQUIREMENTS OF THE NPDES CGP.

Project Erosion and Sedimentation Control Narrative:

THE PROPOSED PROJECT CONSISTS OF A... THE APPROXIMATELY XX ACRE SITE WILL BE DEVELOPED AS A MULTI-PHASE PROJECT... THE PROJECT DISTURBANCE EXCEEDS 1 ACRE THEREFORE IS SUBJECT TO THE REQUIREMENTS OF THE EPA CONSTRUCTION GENERAL PERMIT.

Erosion and Sedimentation Control Techniques and Measures

THE EROSION AND SEDIMENTATION CONTROLS SHOWN HEREON ARE PERIMETER MEASURES ONLY AND ARE PROVIDED AS A STARTING POINT FOR CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS REQUIRED TO PROVIDE ADDITIONAL INTERIM EROSION AND SEDIMENTATION CONTROLS, INCLUDING BUT NOT LIMITED TO THOSE LISTED BELOW, TO MANAGE EROSION AND SEDIMENTATION DURING CONSTRUCTION TO PREVENT IMPACTS TO RESOURCES AREAS, ROADWAYS, AND ADJUTING PROPERTIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EROSION AND SEDIMENTATION CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION.

THE OWNER, CONSTRUCTION MANAGER AND SITE SUBCONTRACTORS ARE RESPONSIBLE FOR THE IMPLEMENTATION, INSPECTION, AND REPAIR OF THE EROSION CONTROLS. THE OWNER SHALL BE RESPONSIBLE FOR INSPECTION AND OPERATION OF THE STORM WATER MANAGEMENT SYSTEM UPON COMPLETION OF CONSTRUCTION.

THE CONSTRUCTION MANAGER SHALL LIMIT THE EXTENT OF DISTURBANCE AND STABILIZE SURFACES AS SOON AS POSSIBLE. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING (7 DAYS IF WITHIN 100 FEET OF A STREAM, POND OR WETLAND).

THE EXISTING SOIL CONDITIONS PROVIDE RUNOFF FROM AREAS WITH EROSION POTENTIAL. THE CONTRACTOR MUST ANTICIPATE HEAVY RUNOFF DURING CONSTRUCTION OR DURING AND AFTER ANY INCLEMENT WEATHER.

THE CONTRACTOR MAY ELECT TO CONSTRUCT TEMPORARY DIVERSION SWALES AND SETTLING BASINS IN AREAS OF FUTURE PHASES OF CONSTRUCTION.

AT NO TIME SHALL SILT-LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (OFF-SITE AREAS AND DRAINAGE SYSTEMS). ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS, FILTERED CATCH BASIN INLETS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

Catch Basin Protection

NEWLY CONSTRUCTED AND EXISTING CATCH BASINS WILL BE PROTECTED WITH SILT SACKS THROUGHOUT CONSTRUCTION.

Gravel and Construction Entrance/Exit

A TEMPORARY CRUSHED-STONE CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED. A CROSS SLOPE WILL BE PLACED IN THE ENTRANCE TO DIRECT RUNOFF TO THE SEDIMENT TRAP.

Vegetative Slope Stabilization

STABILIZATION OF OPEN SOIL SURFACES WILL BE IMPLEMENTED WITHIN 14 DAYS AFTER GRADING OR CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. UNLESS THERE IS SUFFICIENT SNOW COVER TO PROHIBIT IMPLEMENTATION, VEGETATIVE SLOPE STABILIZATION WILL BE USED TO MINIMIZE EROSION ON SLOPES OF 3:1 OR STEEPER. ANNUAL GRASSES, SUCH AS ANNUAL RYE, WILL BE USED TO ENSURE RAPID GERMINATION AND PRODUCTION OF ROOTMASS. PERMANENT STABILIZATION WILL BE COMPLETED WITH THE PLANTING OF PERENNIAL GRASSES OR LEGUMES. ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER MAY BE ESTABLISHED BY HYDRO-SEEDING OR SODDING. A SUITABLE TOPSOIL, GOOD SEEDBED PREPARATION, AND ADEQUATE LIME, FERTILIZER AND WATER WILL BE PROVIDED FOR EFFECTIVE ESTABLISHMENT OF THESE VEGETATIVE STABILIZATION METHODS. MULCH WILL ALSO BE USED AFTER PERMANENT SEEDING TO PROTECT SOIL FROM THE IMPACT OF FALLING RAIN AND TO INCREASE THE CAPACITY OF THE SOIL TO ABSORB WATER.

Temporary Sediment Basins

TEMPORARY SEDIMENT BASINS WILL BE DESIGNED BY THE CONTRACTOR EITHER AS EXCAVATIONS OR BERMED STORMWATER DETENTION STRUCTURES (DEPENDING ON GRADING) THAT WILL RETAIN RUNOFF FOR A SUFFICIENT PERIOD OF TIME TO ALLOW SUSPENDED SOIL PARTICLES TO SETTLE OUT PRIOR TO DISCHARGE. THESE TEMPORARY BASINS WILL BE LOCATED BASED ON CONSTRUCTION NEEDS AS DETERMINED BY THE CONTRACTOR AND OUTLET DEVICES WILL BE DESIGNED TO CONTROL VELOCITY AND SEDIMENT. POINTS OF DISCHARGE FROM SEDIMENT BASINS WILL BE STABILIZED TO MINIMIZE EROSION. AT A MINIMUM, SEDIMENTATION BASINS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE STORAGE FOR THE VOLUME OF RUNOFF GENERATED FROM A 2-YR, 24-HR DESIGN STORM, OR AT LEAST 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINING TO THE BASIN.

Stockpile Management

SIDESLOPES OF STOCKPILED MATERIAL SHALL BE NO STEEPER THAN 2:1. STOCKPILES NOT USED WITHIN 30 DAYS NEED TO BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE. STRAW BALES AND SILT FENCE ARE TO BE PLACED AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE TOE OF SLOPE.

MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWN SLOPE SIDE OF THE PILES IF THE PILES ARE TO REMAIN MORE THAN THREE WEEKS. RUNOFF SHALL BE DIRECTED AWAY FROM STOCKPILES.

STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE, IN AREAS OF MINIMAL IMPACT.

Dust Control

PERIODICALLY MOISTEN EXPOSED SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY DAMP AND REDUCE DUST.

Temporary Erosion and Sedimentation Control Maintenance (Throughout Construction)

THE SITE CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A WEEKLY BASIS (MINIMUM) OR AS REQUIRED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR SHALL ADDRESS DEFICIENCIES AND MAINTENANCE ITEMS WITHIN TWENTY-FOUR HOURS OF INSPECTION. CONTRACTOR SHALL PROPERLY DISPOSE OF SEDIMENT SUCH THAT IT DOES NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS. RECORDS OF THE INSPECTIONS WILL BE PREPARED AND MAINTAINED ON-SITE BY THE CONTRACTOR.

SILT SHALL BE REMOVED FROM BEHIND BARRIERS IF GREATER THAN 6-INCHES DEEP OR AS NEEDED.

DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION.

SEDIMENT THAT IS COLLECTED IN STRUCTURES SHALL BE DISPOSED OF PROPERLY AND COVERED IF STORED ON-SITE.

EROSION CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN SECURELY STABILIZED. AFTER REMOVAL OF STRUCTURES, DISTURBED AREAS SHALL BE REGRADED AND STABILIZED AS SOON AS PRACTICAL.

MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.

Infiltration Area Protection During Construction

FOR THE LONG-TERM FUNCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S), CARE SHALL BE TAKEN IN THE INFILTRATION AREAS DURING CONSTRUCTION THE CONTRACTOR SHALL EMPLOY THE FOLLOWING MINIMUM BEST MANAGEMENT PRACTICES (BMPs):

- 1. INFILTRATION AREAS SHALL NOT BE USED AS TEMPORARY CONSTRUCTION SEDIMENTATION BASINS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. IF INFILTRATION AREAS ARE USED AS TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION, THEN THE SOILS SHALL BE EXCAVATED A MINIMUM OF 2' FROM THE TEMPORARY BASIN BOTTOM TO REMOVE CLOGGED SOILS.
2. STORMWATER RUNOFF FROM EXPOSED SURFACES SHALL BE DIRECTED AWAY FROM THE INFILTRATION BASIN(S)/STRUCTURE(S) DURING CONSTRUCTION
3. CONSTRUCTION EQUIPMENT, VEHICULAR TRAFFIC, PARKING OF VEHICLES, AND STOCKPILING OF CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE OF THE INFILTRATION AREAS.
4. EXCAVATION FOR CONSTRUCTION OF THE INFILTRATION BASIN(S)/STRUCTURE(S) SHALL ENSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED.
5. THE PERIMETER OF THE INFILTRATION AREAS SHALL BE STAKED AND FLAGGED TO PREVENT THE USE OF THE AREA FOR ACTIVITIES THAT MIGHT DAMAGE THE INFILTRATION ABILITY OF THE SYSTEM.

SWPPP Notes:

- 1. THE QUANTITIES AND LOCATIONS OF EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS) SHOWN ON THIS SITE MAP ARE APPROXIMATE. THIS SITE MAP, LIKE THE SWPPP, IS A DYNAMIC DOCUMENT, AND MUST BE CONTINUALLY UPDATED BY THE OPERATORS THROUGHOUT CONSTRUCTION. PROJECT OPERATOR(S) SHALL UPDATE SITE MAP TO SHOW FINAL LOCATIONS OF STORMWATER CONTROL MEASURES AND PROVIDE INFORMATION FOR TYPES OF CONTROLS PROVIDED. PROJECT OPERATORS ARE RESPONSIBLE TO IMPLEMENT, INSPECT, MAINTAIN, REPAIR, AND MODIFY EROSION/SEDIMENTATION CONTROL MEASURES (INCLUDING TEMPORARY SEDIMENTATION BASINS).
2. STORMWATER CONTROLS MUST BE DESIGNED, INSTALLED AND MAINTAINED IN COMPLIANCE WITH PART 2.1 OF THE 2017 CGP.
3. EROSION AND SEDIMENT CONTROLS MUST BE IMPLEMENTED TO ADDRESS THE REQUIREMENTS OF PART 2.2 OF THE 2017 CGP.
4. IF ANY STORMWATER CONTROLS MUST BE DESIGNED (E.G., SEDIMENT BASINS OR CONVEYANCE CHANNELS), THE DESIGN DOCUMENTATION MUST BE INCLUDED IN ATTACHMENT 5 OF THE SWPPP MANUAL.
5. THE ITEMS LISTED BELOW ARE REQUIRED TO BE SHOWN ON THIS SITE MAP PER PART 7.2.4 OF THE 2017 CGP. THIS SITE MAP ALREADY INCLUDES SOME OF THE ITEMS IDENTIFIED BELOW, BUT IT IS THE RESPONSIBILITY OF THE PROJECT OPERATOR(S) TO SUPPLEMENT THE INFORMATION INCLUDED HEREON TO ENSURE THAT ALL REQUIRED ITEMS ARE PROVIDED. PROJECT OPERATOR(S) SHALL CONTINUALLY UPDATE THIS SITE PLAN TO DOCUMENT THESE ITEMS THROUGHOUT CONSTRUCTION, INCLUDING BUT NOT LIMITED TO:
• BOUNDARIES OF THE AREA OF DISTURBANCE

- 50-FOOT BUFFER AROUND THE AREA OF DISTURBANCE
• IDENTIFY AREAS OF STEEP SLOPE
• LOCATIONS OF STOCKPILES
• LOCATIONS OF CONSTRUCTION VEHICLE ACCESS
• ALL STORMWATER DISCHARGE POINTS FROM THE AREA OF DISTURBANCE (TO WATERBODIES AND TO STORM DRAIN INLETS)
• LOCATION OF ALL SURFACE WATERS WHERE THE AREA OF DISTURBANCE DISCHARGES
• THE LOCATION AND NATURE OF ALL EROSION AND SEDIMENT CONTROLS
• PERIMETER CONTROLS
• STORM DRAIN INLET CONTROLS
• A NOTE THAT INDICATES THAT THE CONTRACTOR WILL PROVIDE INFORMATION FOR ANY OTHER TYPES OF CONTROLS REQUIRED.
• LOCATION OF ON-SITE AND OFF-SITE CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THIS PERMIT
• AREAS OF FEDERALLY LISTED CRITICAL HABITAT WITHIN THE SITE AND/OR AT DISCHARGE LOCATIONS
• DRAINAGE PATTERNS OF STORMWATER AND AUTHORIZED NON-STORMWATER BEFORE AND AFTER MAJOR GRADING ACTIVITIES.
• LOCATIONS OF ALL POTENTIAL POLLUTANT GENERATING ACTIVITIES.
• LOCATIONS WHERE ANY CHEMICALS WILL BE USED AND STORED.

General Construction Requirements

- 1. REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL TAKE PLACE ON DESIGNATED AREAS AND SHALL NOT BE CONDUCTED IN PROXIMITY TO CATCH BASINS.
2. NO ON-SITE DISPOSAL OF SOLID WASTE, INCLUDING BUILDING MATERIALS, IS ALLOWED. STUMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH DEVENS ENTERPRISE COMMISSION REQUIREMENTS.
3. NO MATERIALS SHALL BE DISPOSED OF INTO THE EXISTING OR PROPOSED DRAINAGE SYSTEMS. ALL CONTRACTORS, INCLUDING CONCRETE SUPPLIERS, PAINTERS AND PLASTERERS, SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO DRAINAGE SYSTEMS.
4. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL, WHICH SHALL INCLUDE STREET SWEEPING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF-SITE AREAS THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS, AS NEEDED.
5. ALL SITE WORK SHALL BE STABILIZED AT THE END OF THE WORK DAY OR PRIOR TO ANTICIPATED CONDITIONS WHICH COULD CAUSE EROSION OR AIR-BORNE SEDIMENT PROBLEMS (I.E., RAIN, HIGH WINDS, EXPOSED SURFACES OR STEEP SLOPES).
6. SITE OPERATIONS IN THE AREA OF DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MAINTAIN OR CREATE GRADES AND SURFACES WHICH SLOPE AWAY FROM PUBLIC ROADS, PRIVATE DRIVES, AND ADJUTING PROPERTIES TO THE EXTENT POSSIBLE.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THAT PUBLIC ROADS, PRIVATE DRIVES, AND ADJUTING PROPERTIES ARE KEPT CLEAN OF CONSTRUCTION RELATED DEBRIS. ALL MATERIALS TRACKED ONTO SAID STREETS, DRIVES, AND PROPERTIES SHALL BE PROMPTLY REMOVED.

Pre-Construction

- 1. AN EROSION CONTROL BARRIER (SILT FENCE, STRAW WATTLE OR SILT SOCK) SHALL BE INSTALLED TO LIMIT THE AREA OF DISTURBANCE. THIS IS ESPECIALLY IMPORTANT ON PORTIONS OF THE SITE ADJACENT TO SENSITIVE AREAS. THESE BARRIERS SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED. INSTALL SILT FENCES AND HAYBALES TO AVOID EXISTING TREES AND UNDERBRUSH TO MAXIMUM EXTENT POSSIBLE.
2. TEMPORARY STONE ACCESS AREAS SHALL BE ESTABLISHED AT THE DRIVEWAY ENTRANCES TO COLLECT ENTRAPPED SOILS AND SEDIMENT FROM CONSTRUCTION AND SERVICE VEHICLES ENTERING AND LEAVING THE SITE. THE STONE SHALL BE REPLACED REGULARLY AS WELL AS WHEN THE STONE IS SILT-LADEN. THE CONSTRUCTION ENTRANCES SHALL BE LEFT IN PLACE UNTIL THE PERMANENT DRIVEWAY SURFACE IS INSTALLED.
3. THE CONTRACTOR SHALL ESTABLISH STAGING AREAS WITHIN THE AREA OF DISTURBANCE FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS.
4. CONSTRUCTION MATERIALS SHALL BE PILED IN SUCH A MANNER AS NOT TO CONCENTRATE RUNOFF.
5. IN THE STAGING AREA, THE CONSTRUCTION MANAGER SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON-SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO, HAY BALES, SILT FENCE AND CRUSHED STONE.
6. THE CONSTRUCTION MANAGER IS RESPONSIBLE FOR EROSION CONTROL ON-SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN OR IN CONDITIONS ISSUED BY PERMITTING AUTHORITIES.

Preliminary Site Work

- 1. NO SOIL OR LOAM SHALL LEAVE THE SITE EXCEPT IN ACCORDANCE WITH THE DEVENS ENTERPRISE COMMISSION REQUIREMENTS - 97A AIR-407 - EARTH REMOVAL
2. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL HAY BALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.

Utilities

- 1. CARE SHALL BE TAKEN TO ASSURE THAT THE UTILITY TRENCHES DO NOT CHANNELIZE RUNOFF TOWARD ROADS, PRIVATE DRIVES OR OTHER OFF-SITE AREAS.
2. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY UTILITY INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.

Drainage System

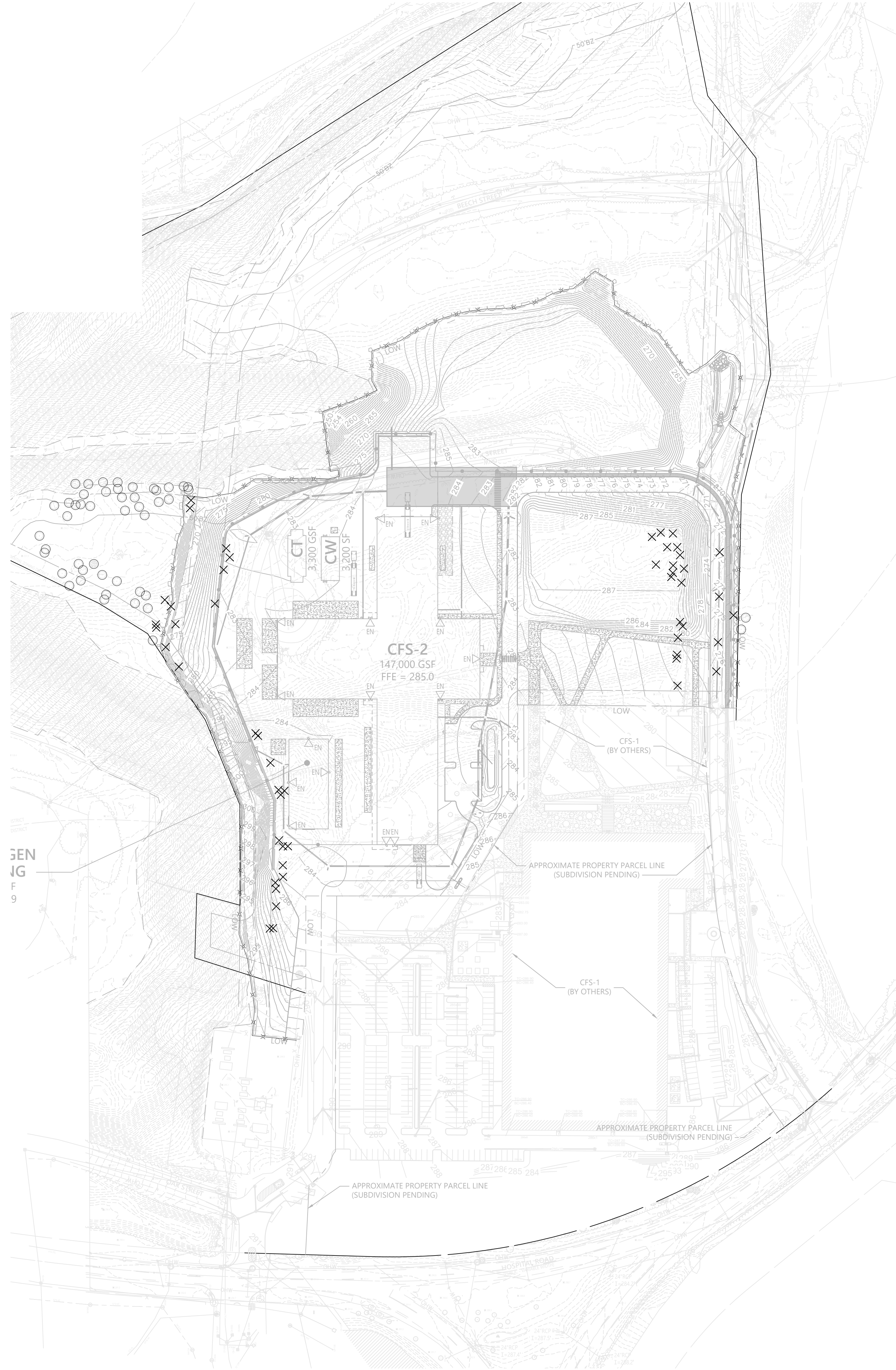
- 1. THE DRAINAGE SYSTEM SHALL BE INSTALLED FROM THE DOWNSTREAM END UP. SEDIMENT SHALL NOT BE ALLOWED TO ENTER THE SYSTEM. WATER SHALL NOT BE ALLOWED TO ENTER PIPES FROM UNSTABILIZED SURFACES.
2. SILT FENCES SHALL BE INSTALLED AT THE OUTFALLS OF ALL TEMPORARY BASINS AND SWALES. THEY SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY AREAS ARE STABILIZED.
3. UNTIL TRIBUTARY AREAS ARE STABILIZED FILTERED CATCH BASIN SILT SACKS SHALL COVER CATCH BASINS TO MINIMIZE SILTATION IN THE CATCH BASINS.
4. TRENCH EXCAVATIONS SHALL BE LIMITED TO THE MINIMUM LENGTH REQUIRED FOR DAILY PIPE INSTALLATION. ALL TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE. THE ENDS OF PIPES SHALL BE CLOSED NIGHTLY WITH PLYWOOD.
5. IF UNSTABLE AREAS ARE ENCOUNTERED DUE TO NATURAL SPRINGS OR GROUNDWATER BREAKOUT, INTERCEPTOR DRAINS SHALL BE INSTALLED TO DIRECT THE RUNOFF INTO THE DRAINAGE SYSTEM.
6. ALL SWALES MUST BE MAINTAINED AND KEPT FREE OF OBSTRUCTIONS TO ALLOW UNIMPEDED FLOW.
7. THE BINDER COURSE OF PAVEMENT WITH BERMS SHALL BE INSTALLED AS SOON AS FEASIBLE AS THIS AREA WILL FUNCTION AS A CONDUIT FOR RUNOFF.
8. IMMEDIATELY FOLLOWING PAVING THE SHOULDERS SHALL BE GRADED, LOAMED AND SEEDED AND MULCHED IF NECESSARY. ALL SURFACES SHOULD BE RAPIDLY AND THOROUGHLY STABILIZED TO THEIR FINAL CONDITION TO AVOID ENTRY OF SEDIMENTS IN THE DRAINAGE SYSTEM.
9. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE AND SEWER SYSTEMS

General

- 1. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (1-888-344-7233) AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
4. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
5. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER, AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECTED MATERIAL TO AVOID FURTHER SPREADING OF THE MATERIAL, AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
6. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
7. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
8. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF-SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

DEC Erosion Control Requirements (Per 97A CMR 3.02(3)(E))

- 1. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MAKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
2. PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON-SITE. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE DEC.
3. MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA AND STREET SWEEPING OF ADJACENT STREETS AND ROADS SHALL BE INCLUDED WHERE NECESSARY.
4. ALL RESOURCE AREAS SHALL BE PROTECTED FROM SEDIMENT.
5. MONITORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION SHALL BE REQUIRED. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES 1/4 TO 1/2 THE HEIGHT OF THE EROSION CONTROL.
6. DIVERT RUNOFF FROM OFFSITE AND UNDISTURBED AREAS AWAY FROM CONSTRUCTION TO MINIMIZE SOIL EROSION AND SEDIMENTATION ON AND OFF-SITE. TEMPORARILY STABILIZE ALL HIGHLY ERODIBLE SOILS AND SLOPES IMMEDIATELY.
7. LAND DISTURBANCE ACTIVITIES EXCEEDING TWO ACRES IN SIZE SHALL NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES STORMWATER CONTROLS TO BE INSTALLED AND EXPOSED SOILS STABILIZED AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. A CONSTRUCTION PHASING PLAN, INCLUDING EROSION AND SEDIMENT CONTROL PLAN FOR EACH PHASE, SHALL BE SUBMITTED TO THE DEC PRIOR TO ANY CONSTRUCTION ON THE SITE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
8. SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
9. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
10. DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
11. ANTI-TRACKING PATTERNS (AKA STABILIZED CONSTRUCTION EXIT) SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXIT POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE. DUST SHALL ALSO BE CONTROLLED AT THE SITE.
12. ALL SLOPES STEEPER THAN 3:1 (HV, 33.3%), AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
13. TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONSTRUCTION AREAS ASSOCIATED WITH THE PROJECT. SIMILARLY, STABILIZATION MUST BE ESTABLISHED PRIOR TO CONVERTING TEMPORARY SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES. ALL FACILITIES USED FOR TEMPORARY MEASURES SHALL BE CLEANED AND RE-STABILIZED PRIOR TO BEING PUT INTO FINAL OPERATION.
14. 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.



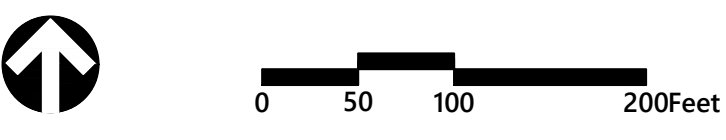
Legend

- EROSION CONTROL BARRIER
o TREE PROTECTION FENCING
x TREE TO BE REMOVED

NOTES

Approved by:

Devens Enterprise Commission



Commonwealth Fusion Systems Campus Building 2

111 Hospital Road, Devens, MA

Table with columns: No., Revision, Date, Apprv. Below the table is a signature line for 'Level Two Permit' dated 'Nov 5, 2020'.

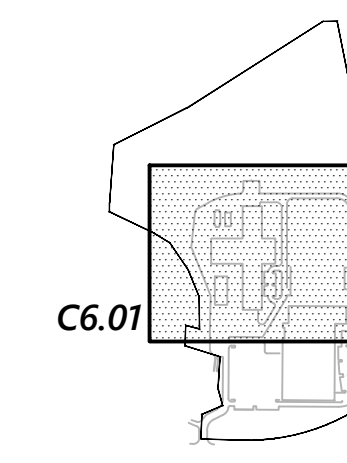
Not Approved for Construction
Overall Erosion and Sediment Control Plan
Drawing Number C-6.00



Sheet 16 of 24
Project Number 14867.00



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



Key

Not To Scale

NOTES

Approved by:

Devens Enterprise Commission



0 20 40 80 Feet

**Commonwealth Fusion
Systems Campus
Building 2**

111 Hospital Road
Devens, MA

No. Revision Date Appr.

Designed by Checked by

Issued for Date
Level Two Permit Nov 5, 2020

Not Approved for Construction

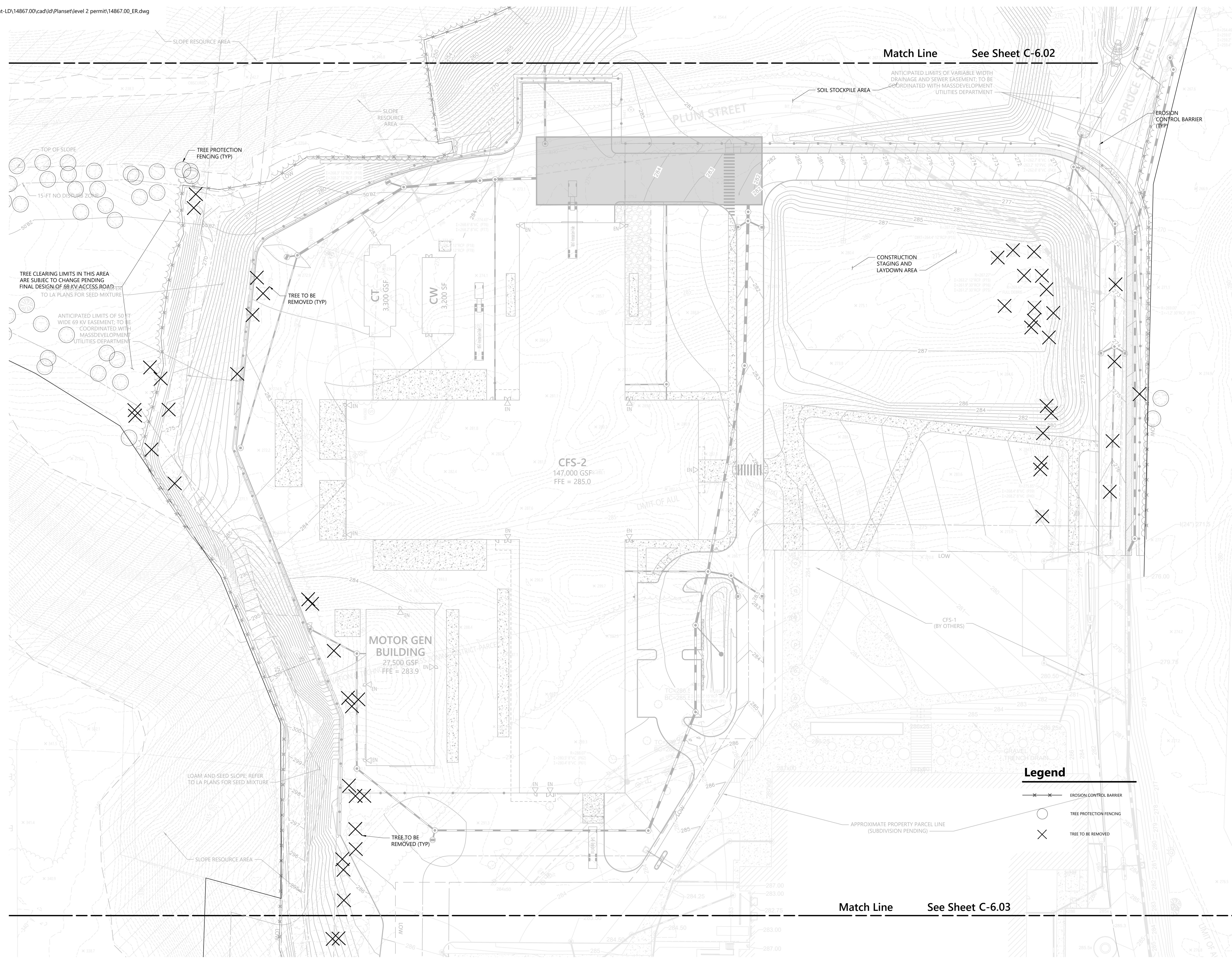
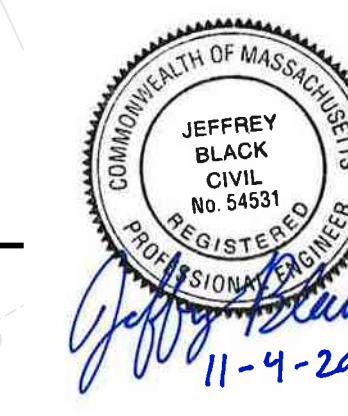
**Erosion and
Sediment Control Plan 1**

Drawing Number

C-6.01

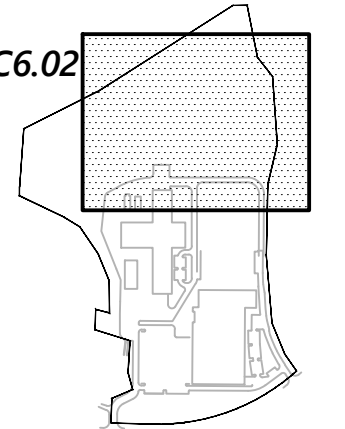
Sheet of
17 of 24

Project Number
14867.00





101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



Key

Not To Scale

NOTES

Approved by:

Devens Enterprise Commission



0 20 40 80 Feet

**Commonwealth Fusion
Systems Campus
Building 2**

111 Hospital Road
Devens, MA

No.	Revision	Date	Appr.

Designed by	Checked by

Issued for	Date
Level Two Permit	Nov 5, 2020

Not Approved for Construction

**Erosion and
Sediment Control Plan 2**

Drawing Number

C-6.02

Sheet 18 of 24

Project Number
14867.00



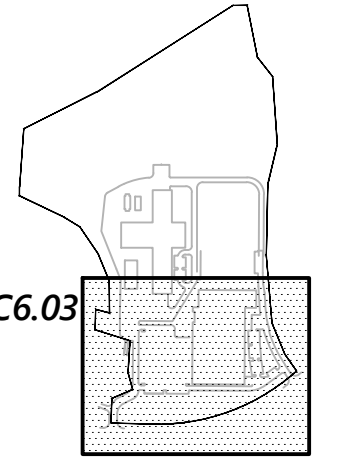
Legend

- x—x— EROSION CONTROL BARRIER
- TREE PROTECTION FENCING
- × TREE TO BE REMOVED





101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



C6.03



Key

Not To Scale

NOTES

Approved by:

Devens Enterprise Commission



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**Commonwealth Fusion
Systems Campus
Building 2**

111 Hospital Road
Devens, MA

No. Revision Date Appr.

Designed by Checked by

Issued for Date
Level Two Permit Nov 5, 2020

Not Approved for Construction

**Erosion and
Sediment Control Plan 3**

Drawing Number

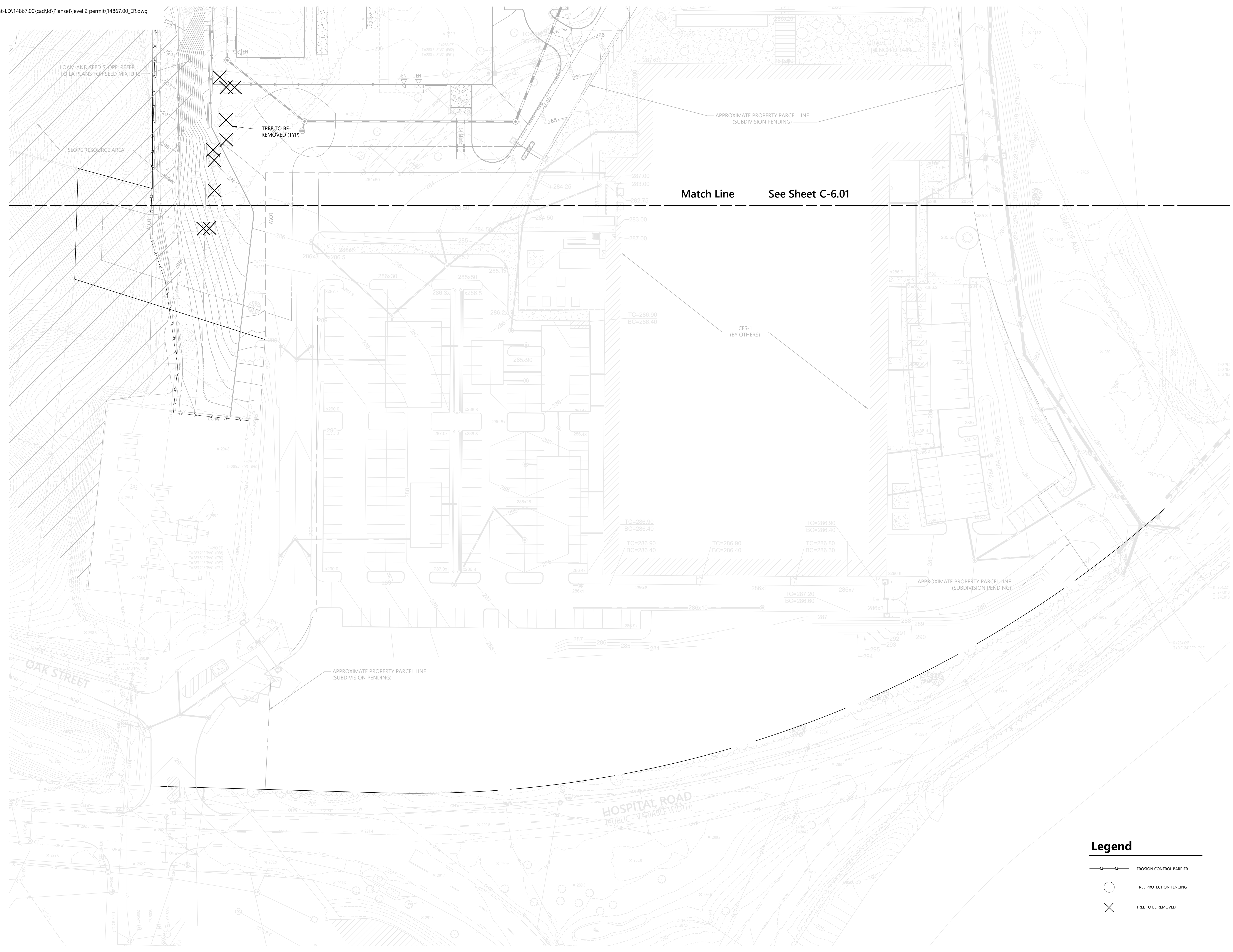
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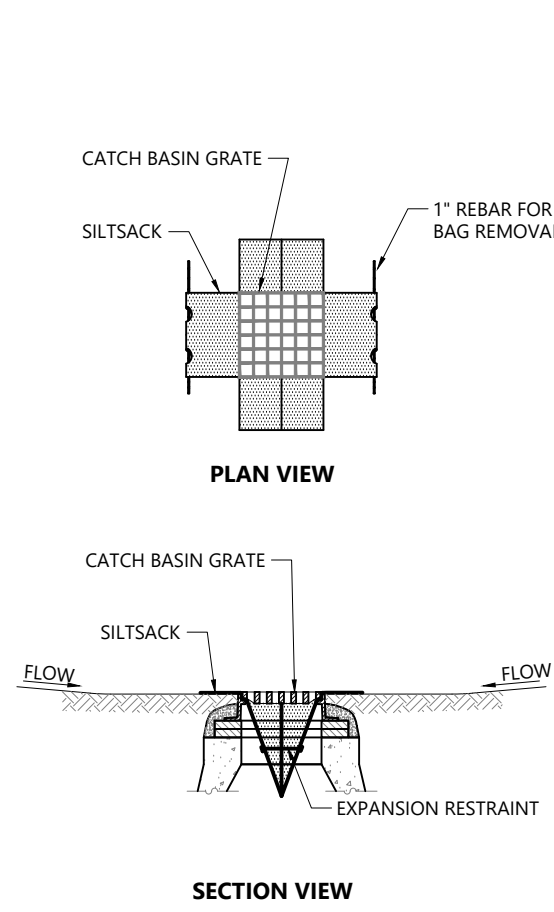
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Project Number
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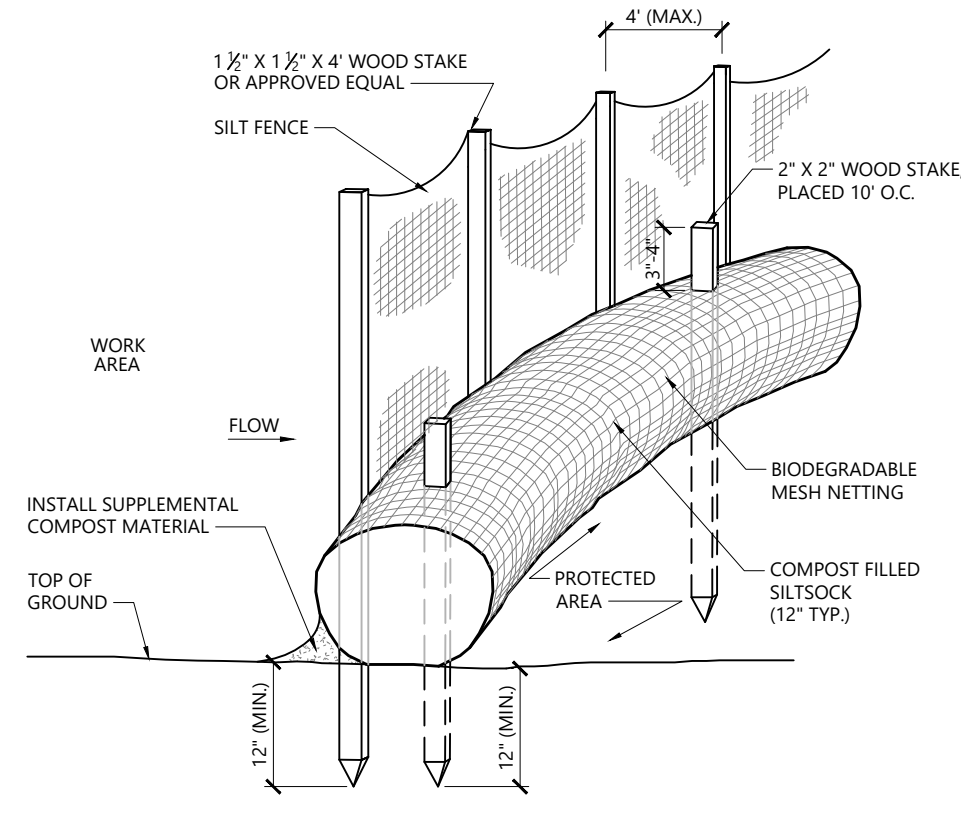
- EROSION CONTROL BARRIER
- TREE PROTECTION FENCING
- TREE TO BE REMOVED





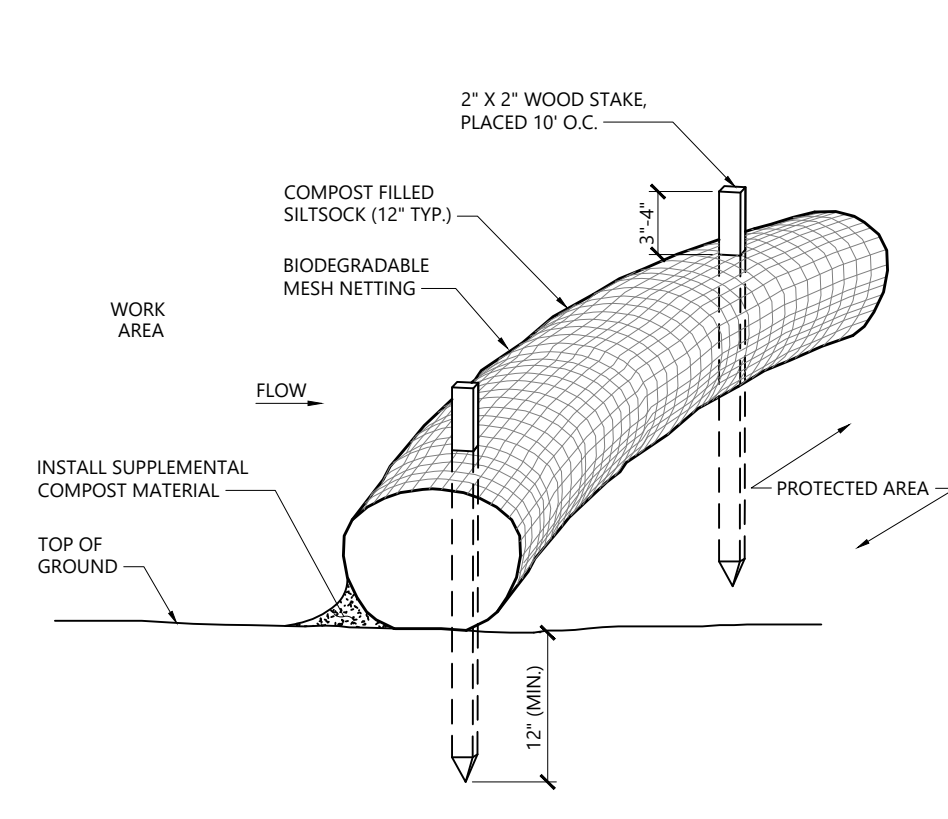
- NOTES**
1. INSTALL SILT SACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.
 2. GRATE TO BE PLACED OVER SILT SACK.
 3. SILT SACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED.

Silt sack Sediment Trap 1/16
N.T.S. Source: VHB LD_674



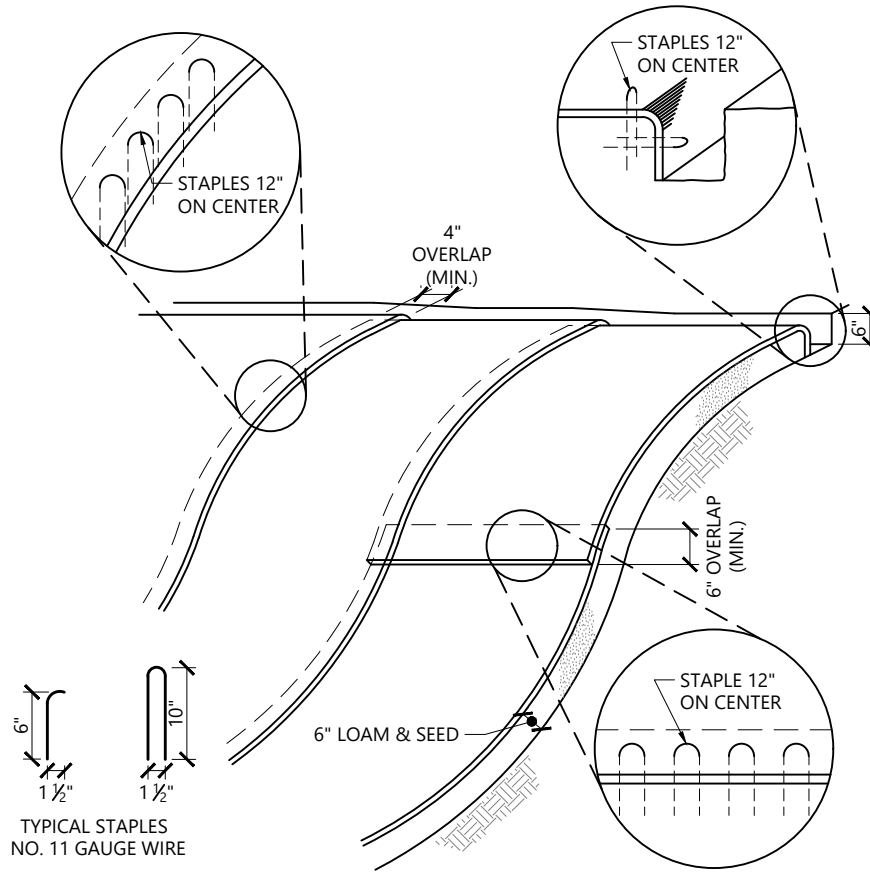
- NOTES**
1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
 2. SILT SOCKS SHALL OVERLAP A MINIMUM OF 12 INCHES.
 3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.
 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFF SITE.

Silt sock / Silt Fence Barrier 1/16
N.T.S. Source: VHB LD_658-A



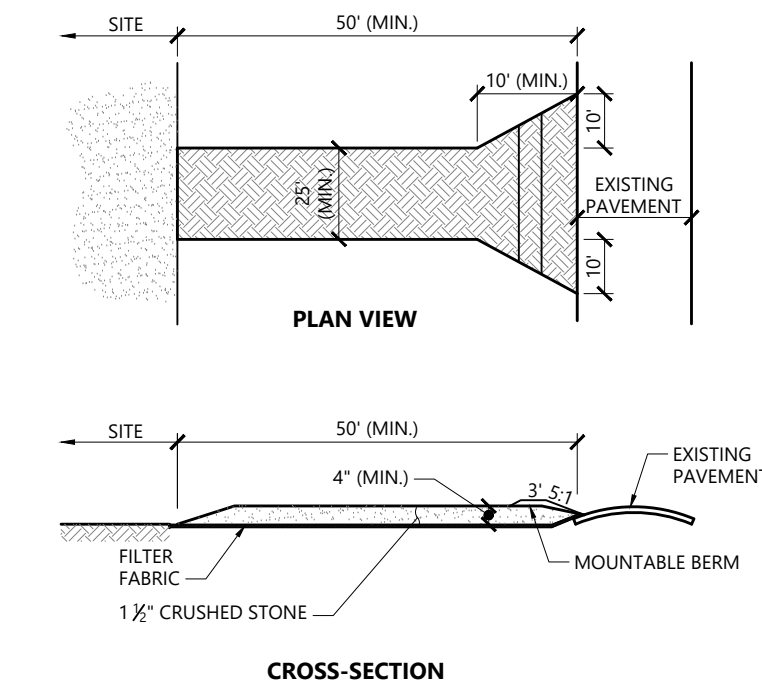
- NOTES**
1. SILT SOCK SHALL BE FILTREXX SILT SOCK, OR APPROVED EQUAL.
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 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.
 5. IF NON BIODEGRADABLE NETTING IS USED THE NETTING SHALL BE COLLECTED AND DISPOSED OF OFF SITE.

Silt sock - Erosion Control Barrier 1/16
N.T.S. Source: VHB LD_658



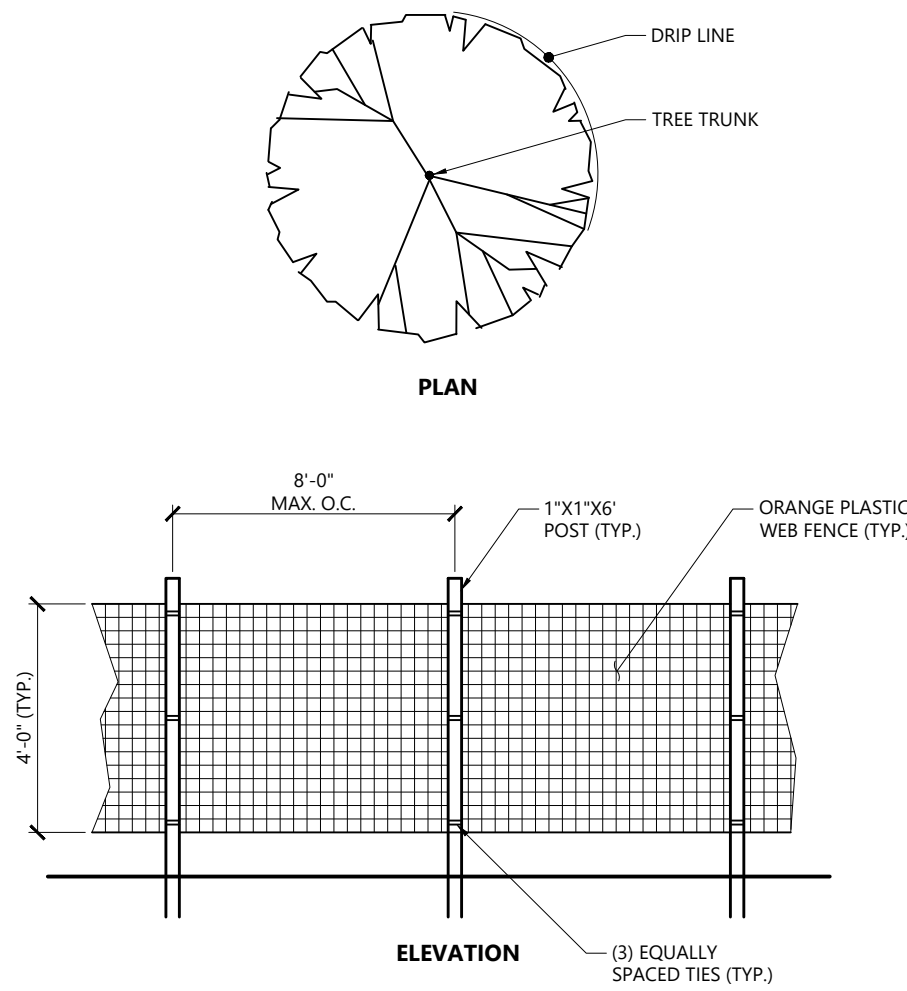
- NOTES**
1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
 3. THE EDGES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
 4. WHEN BLANKETS MUST BE SPICED DOWN THE SWALE, PLACE UPPER BLANKET END OVER LOWER END WITH 6 INCH (MIN) OVERLAP AND STAPLE BOTH TOGETHER.
 5. METHOD OF INSTALLATION SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS.
 6. EROSION CONTROL BLANKETS SHALL BE USED IN ALL AREAS WHERE SLOPE EXCEED 3:1.

Erosion Control Blanket Slope Installation 1/16
N.T.S. Source: VHB LD_680



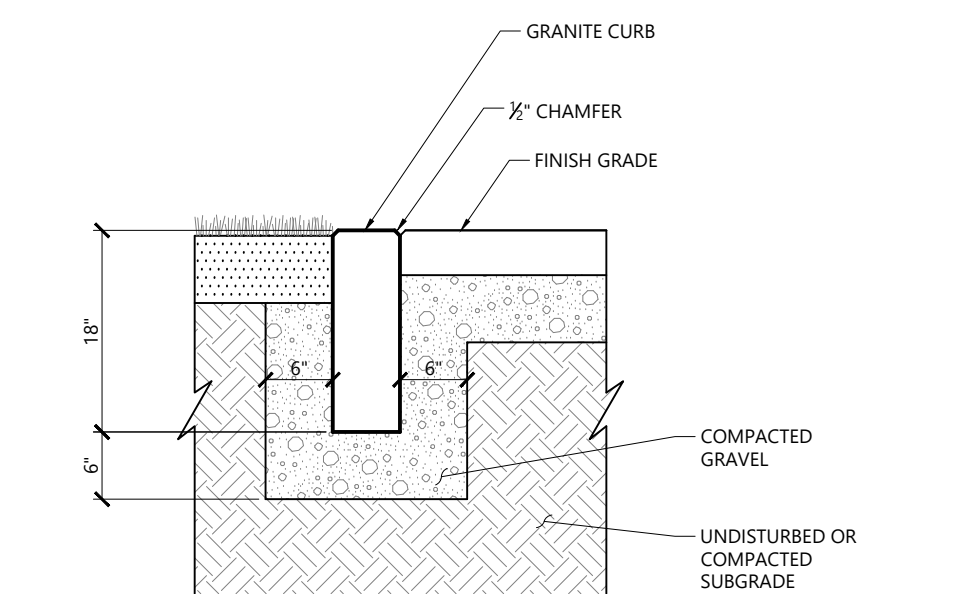
- NOTES**
1. EXIT WIDTH SHALL BE A TWENTY-FIVE (25) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING 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. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.
 3. STABILIZED CONSTRUCTION EXIT SHALL BE REMOVED PRIOR TO FINAL FINISH MATERIALS BEING INSTALLED.

Stabilized Construction Exit 1/16
N.T.S. Source: VHB LD_682

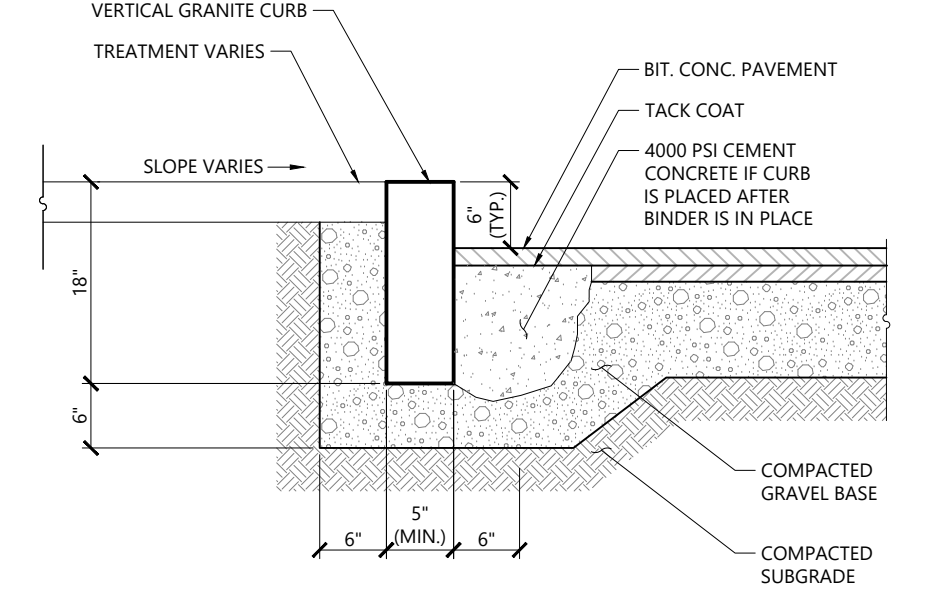


- NOTES**
1. INSTALL TREE PROTECTION FENCE AT THE DRIP LINE OF EXISTING TREES TO REMAIN.

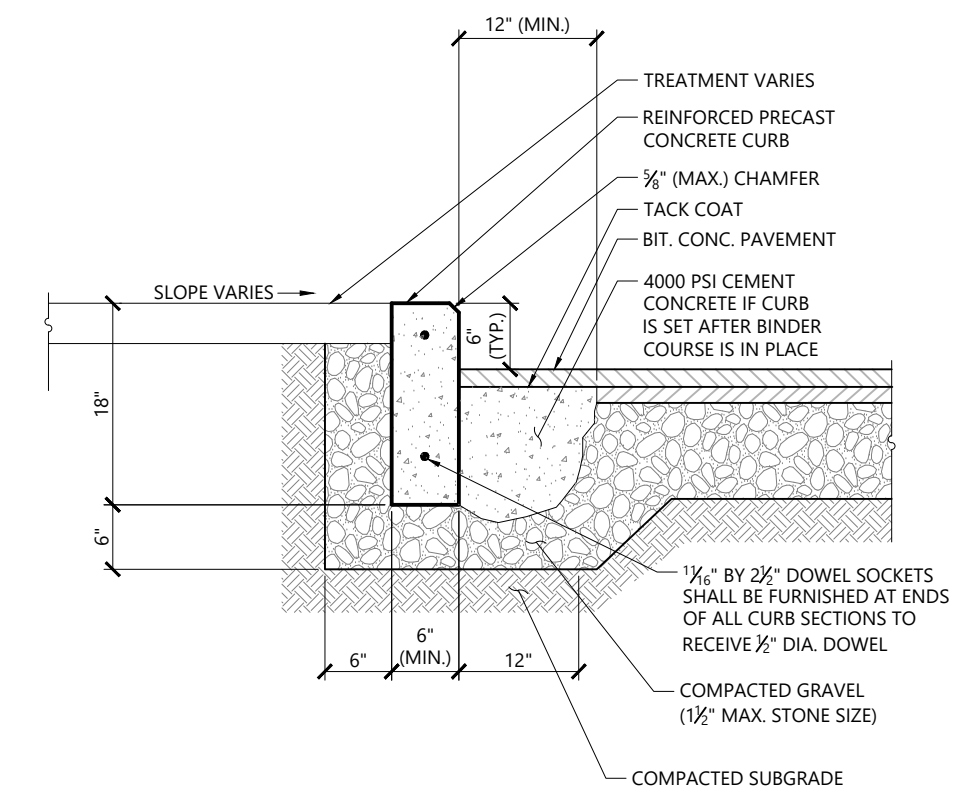
Tree Protection Fence 1/16
N.T.S. Source: VHB LD_610



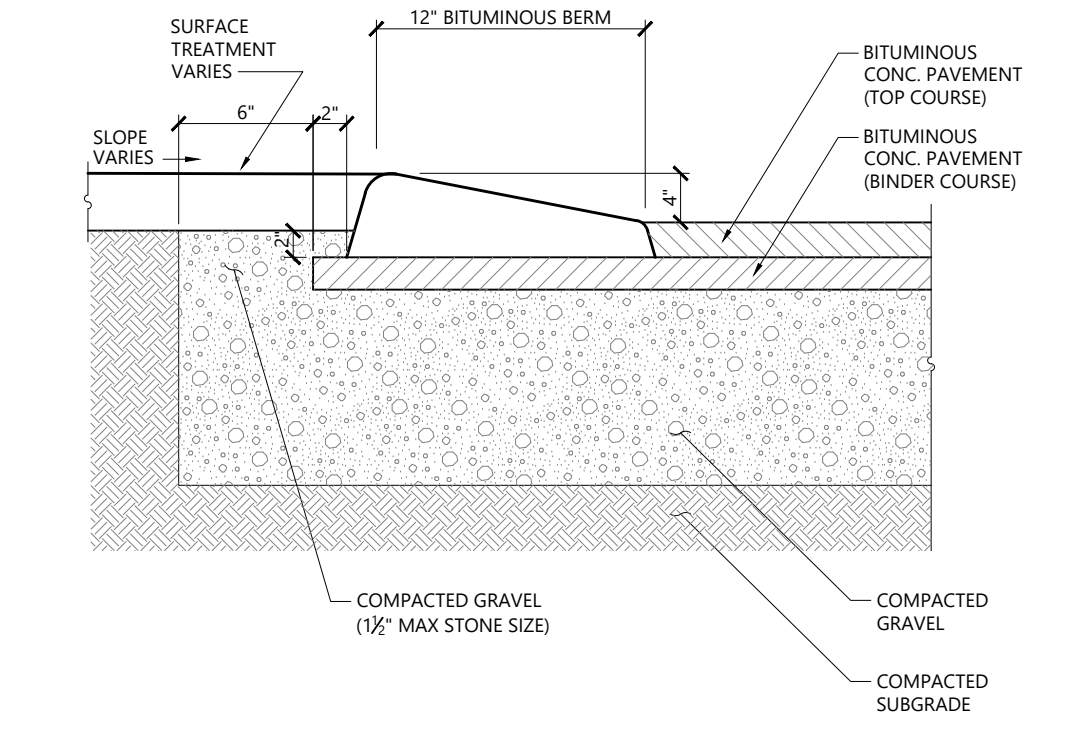
Flush Granite Curb 1/16
N.T.S. Source: VHB LD_409



Vertical Granite Curb (VGC) 1/16
N.T.S. Source: VHB LD_402

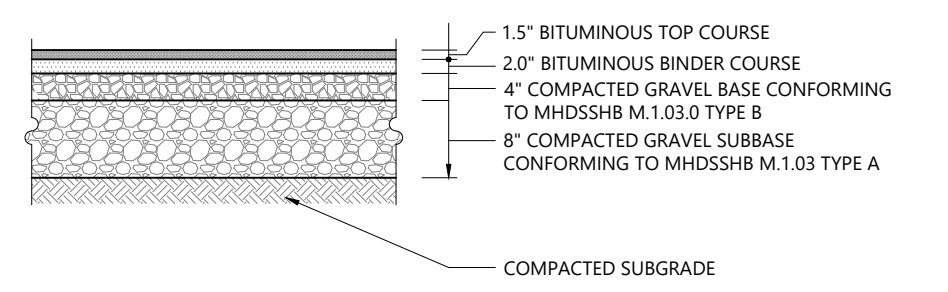


Precast Concrete Curb (PCC) 1/16
N.T.S. Source: VHB LD_404



- NOTES**
- ALL CURBING TO BE MACHINE EXTRUDED

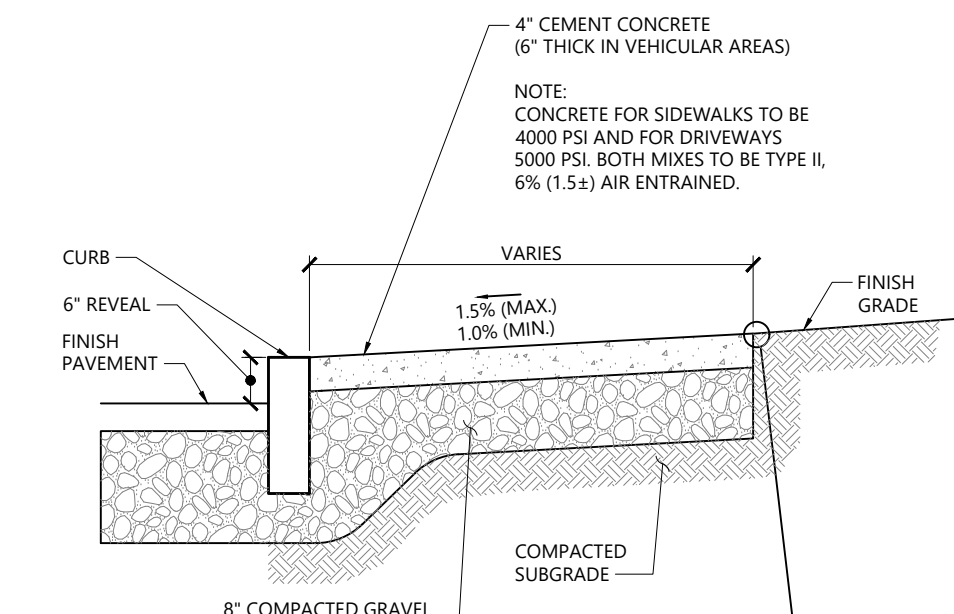
Bituminous Berm (BB) 1/16
N.T.S. Source: VHB LD_407



Standard Duty Flexible Pavement

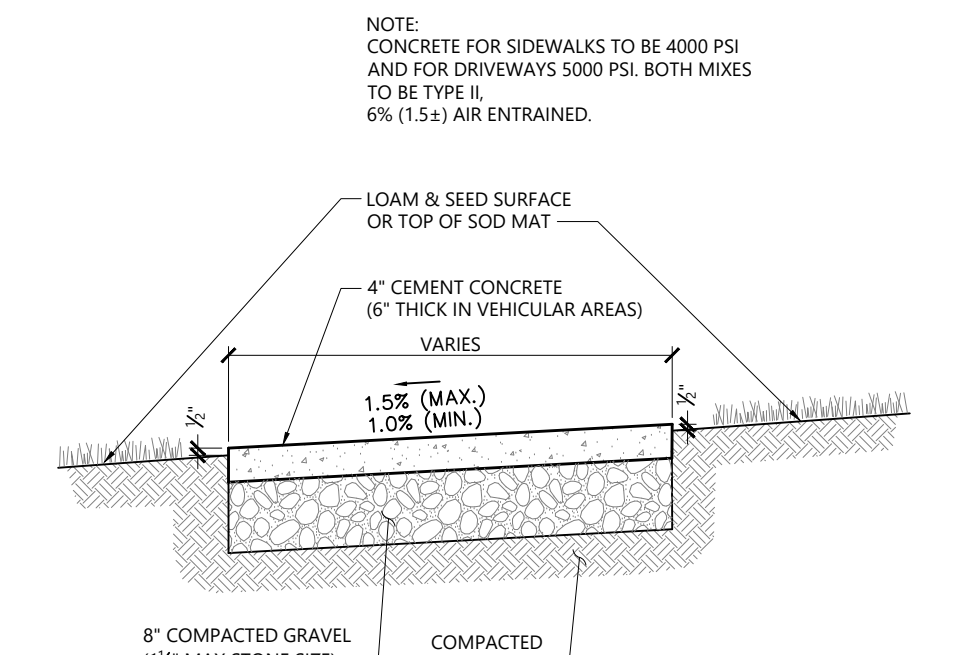
- NOTES**
1. PAVEMENT DESIGN CONFORMS TO DEVENS RULES AND REGULATIONS
 2. FINAL PAVEMENT SECTION DESIGN SHALL BE PROVIDED BY GEOTECHNICAL ENGINEER

Bituminous Concrete Pavement Sections 1/16
N.T.S. Source: VHB REV LD_430



- NOTES**
1. PROVIDE EXPANSION JOINTS
 2. AT MIN. 30 FT. O.C. WITH PRE-FORMED JOINT FILLER.
 3. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
 4. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.

Concrete Sidewalk 1/16
N.T.S. Source: VHB LD_420



- NOTES**
1. PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-FORMED JOINT FILLER.
 2. PROVIDE TOOLED CONTROL JOINTS AT 6' O.C.
 3. PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO SIDEWALK DIRECTION.

Concrete Sidewalk in Landscape Area 1/16
N.T.S. Source: VHB LD_426

NOTES

Approved by:

Devens Enterprise Commission

Commonwealth Fusion Systems Campus Building 2
111 Hospital Road
Devens, MA

No.	Revision	Date	Apprv.

Designed by: _____ Checked by: _____

Issued for: **Level Two Permit** Date: **Nov 5, 2020**

Not Approved for Construction
Site Details 1

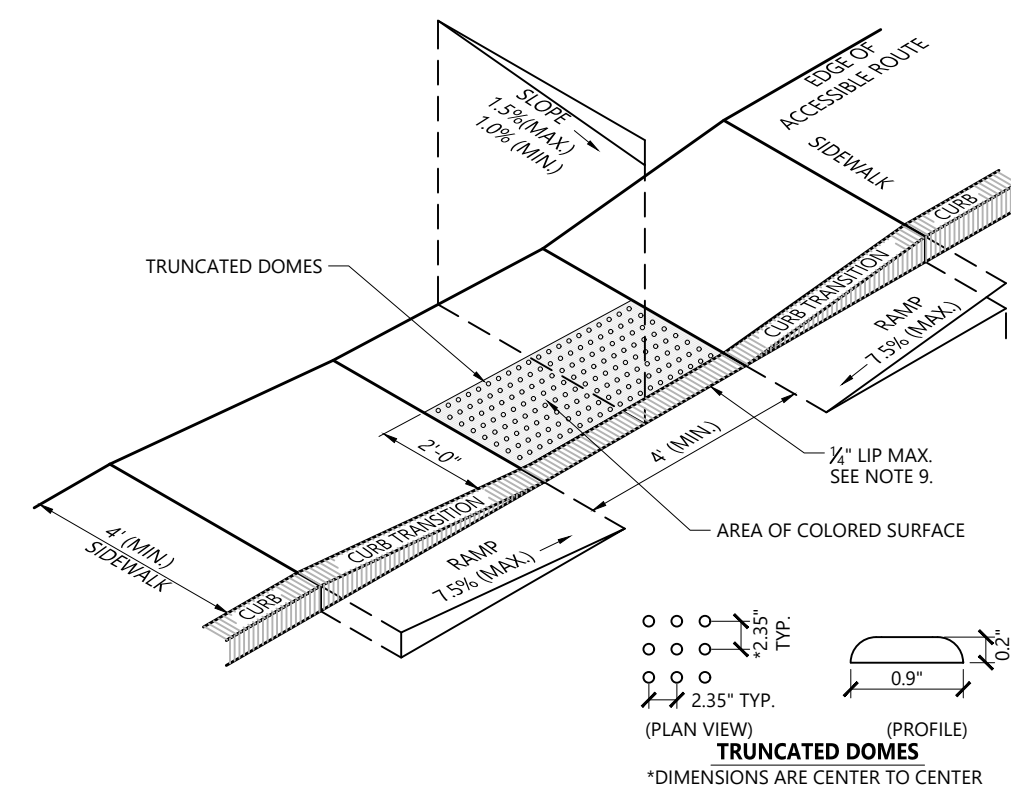
Drawing Number: _____

C-8.01

Sheet 21 of 24

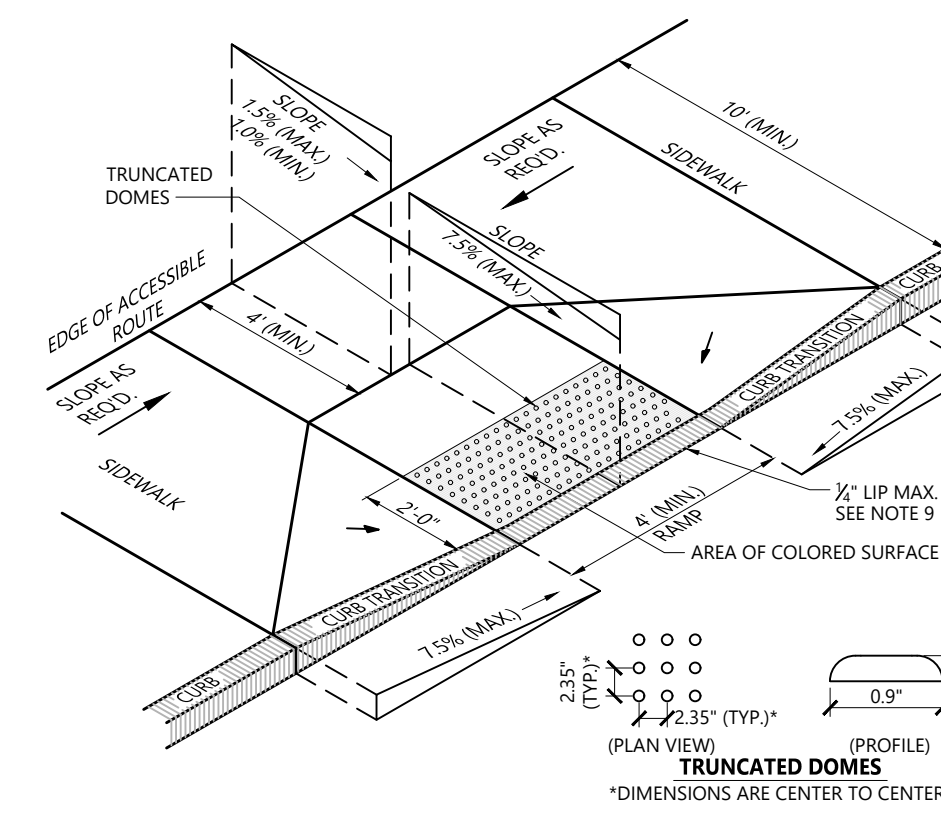
Project Number: 14867.00





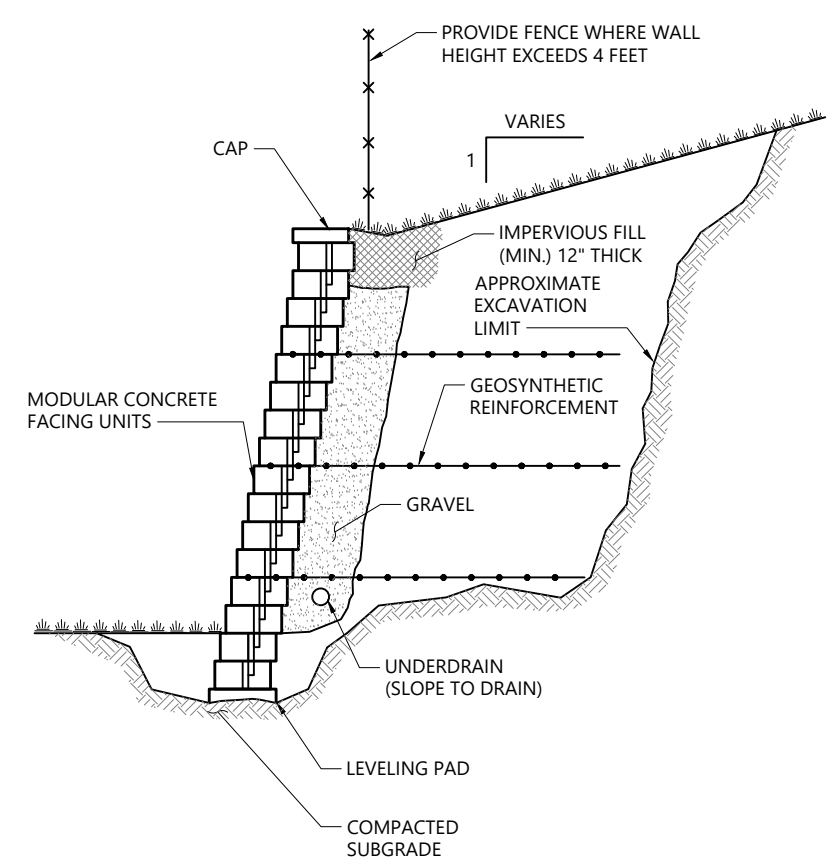
- NOTES**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5 (1% MIN.).
 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
 5. CURB TREATMENT VARIES. SEE PLANS FOR CURB TYPE.
 6. RAMP, CURB, AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
 8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
 9. ELIMINATE CURBING AT RAMP (OTHER THAN VERTICAL CURBING, WHICH SHALL BE SET FLUSH) WHERE IT ABUTS ROADWAY.
 10. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
 11. DETECTABLE WARNINGS SHALL BE INSTALLED PERPENDICULAR TO ACCESSIBLE ROUTE.

Accessible Curb Ramp (ACR) Type 'A-D' 1/16
N.T.S. Source: VHB LD_500



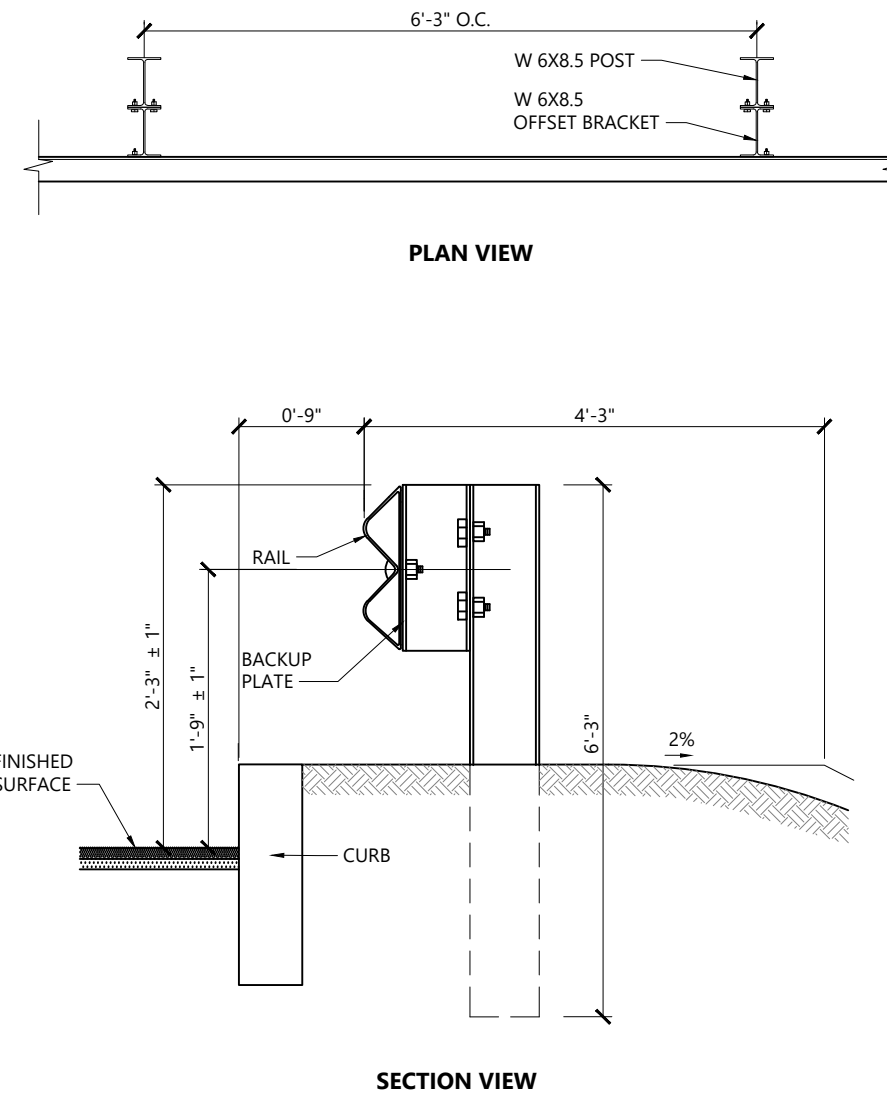
- NOTES**
1. THE MAXIMUM ALLOWABLE SIDEWALK AND CURB RAMP CROSS SLOPES SHALL BE 1.5 (1% MIN.).
 2. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%.
 3. THE MAXIMUM ALLOWABLE SLOPE OF ACCESSIBLE ROUTE AT CURB RAMPS SHALL BE 7.5%.
 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.).
 5. CURB TREATMENT VARIES. SEE PLANS FOR CURB TYPE.
 6. RAMP, CURB AND ADJACENT PAVEMENTS SHALL BE GRADED TO PREVENT PONDING.
 7. SEE TYPICAL SIDEWALK SECTION FOR RAMP CONSTRUCTION.
 8. WHERE ACCESSIBLE ROUTES ARE LESS THAN 5' IN WIDTH (EXCLUDING CURBING) A 5' x 5' PASSING AREA SHALL BE PROVIDED AT INTERVALS NOT TO EXCEED 200 FEET.
 9. ELIMINATE CURBING AT RAMP WHERE IT ABUTS ROADWAY, EXCEPT WHERE VERTICAL CURBING IS INDICATED ON THE DRAWINGS TO BE INSTALLED AND SET FLUSH.
 10. DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
 11. DETECTABLE WARNINGS SHALL BE INSTALLED PERPENDICULAR TO THE ACCESSIBLE ROUTE.

Accessible Curb Ramp (ACR) Type 'D-D' 1/16
N.T.S. Source: VHB LD_503

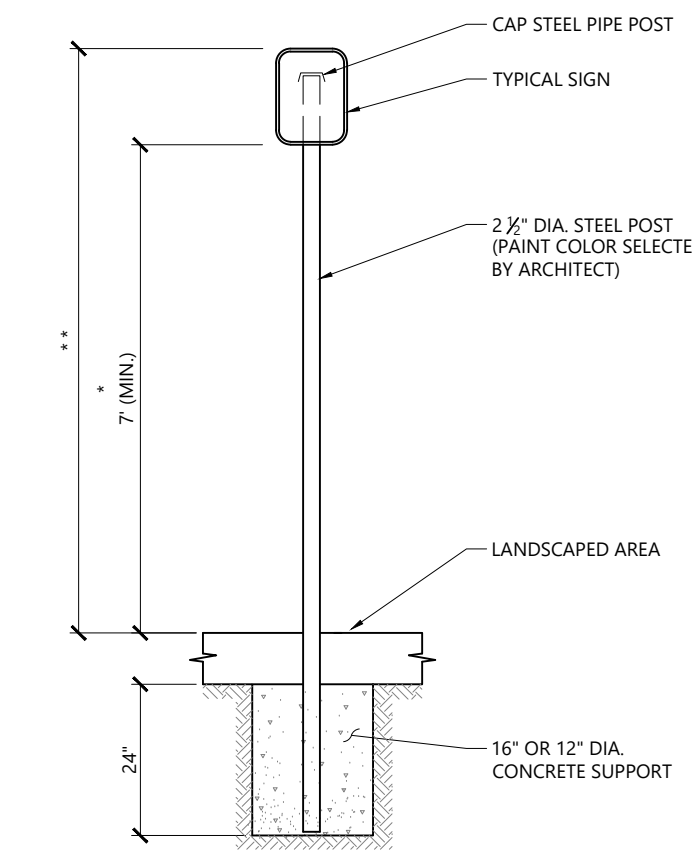
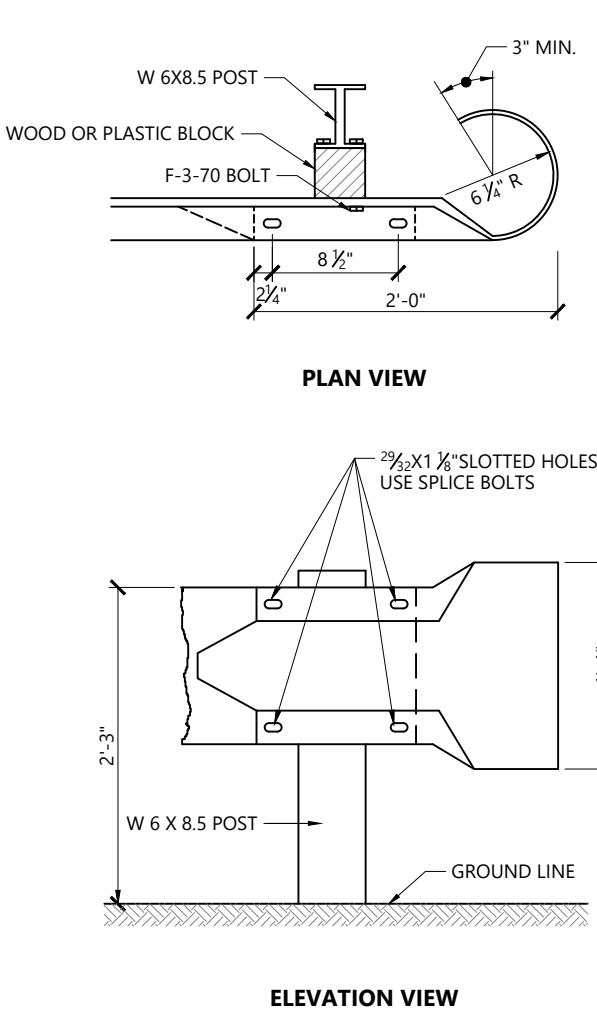


- NOTES**
- DETAIL PROVIDED FOR GENERAL INFORMATION ONLY. STAMPED FINAL DESIGN OF MODULAR WALL SYSTEM TO BE PROVIDED BY WALL MANUFACTURER BASED ON GEOTECHNICAL ENGINEERS RECOMMENDATIONS.

Modular Retaining Wall 1/16
N.T.S. Source: VHB LD_750

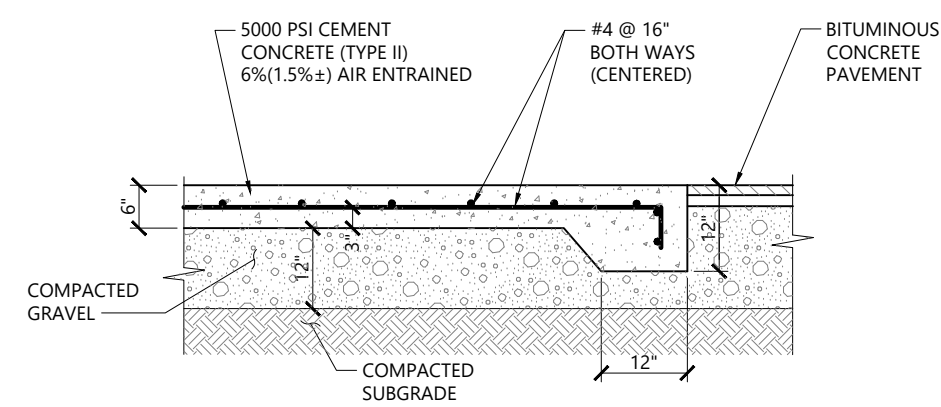


Steel Beam Guardrail with Steel Post 1/16
N.T.S. Source: VHB LD_456



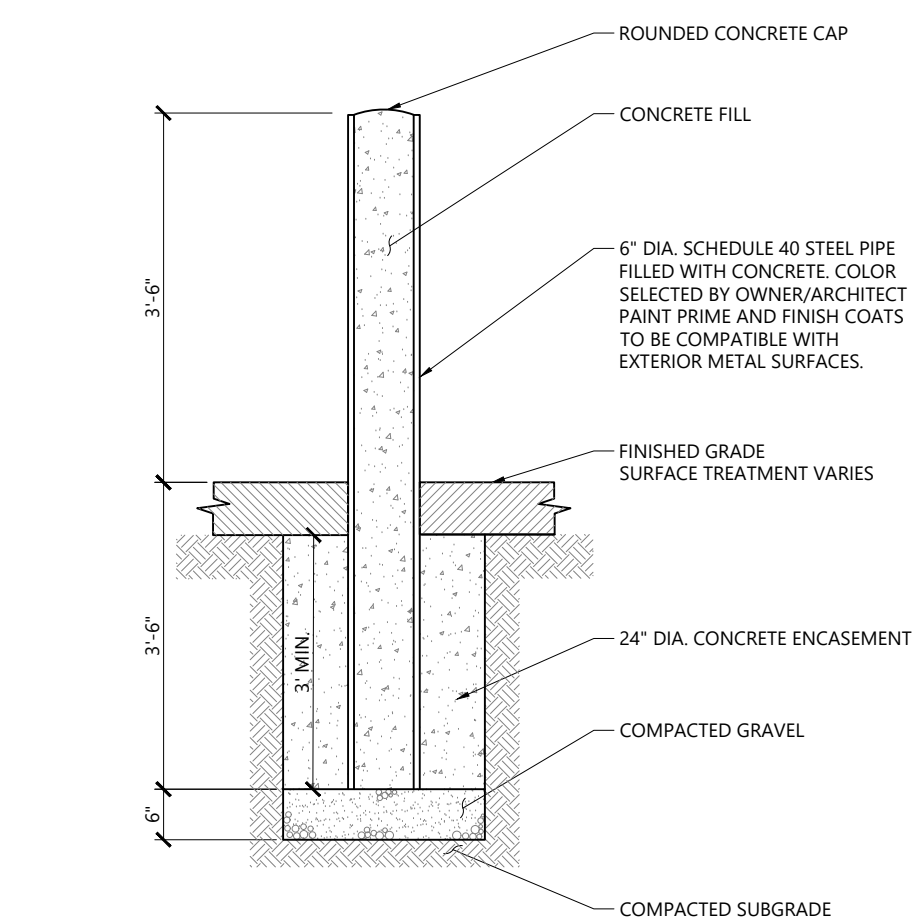
- * THIS DIMENSION SHALL BE A MINIMUM OF 5' FOR ACCESSIBLE SIGNAGE.
** THIS DIMENSION SHALL BE A MAXIMUM OF 8' FOR ACCESSIBLE SIGNAGE.

Sign Post - Type 'A' 1/16
N.T.S. Source: VHB LD_701

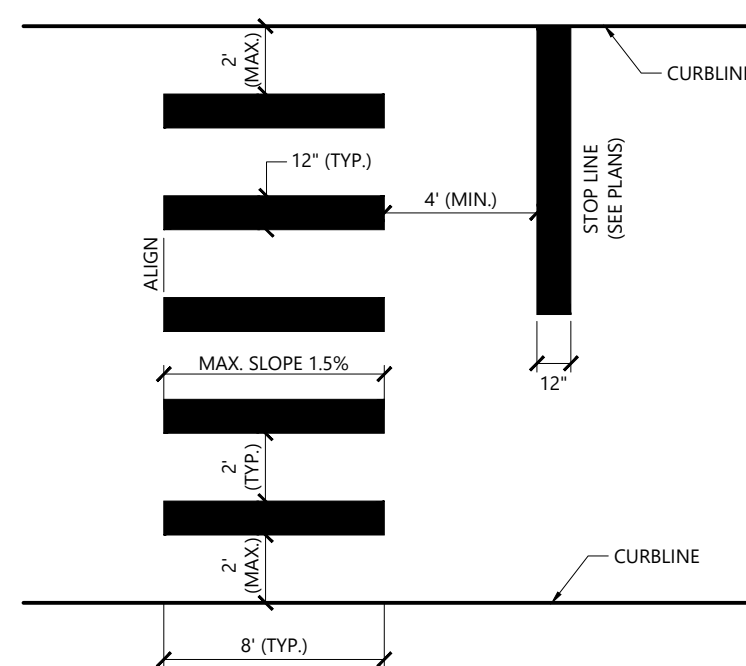


- NOTES**
1. SIZE OF PAD TO BE AS INDICATED ON PLANS.
 2. CONSTRUCTION JOINTS SHALL BE SPACED NO MORE THAN 30 FEET ON CENTER AND SHALL BE EQUALLY SPACED OVER THE LENGTH AND WIDTH OF THE PAD.

Dumpster Pad 1/16
N.T.S. Source: VHB LD_710

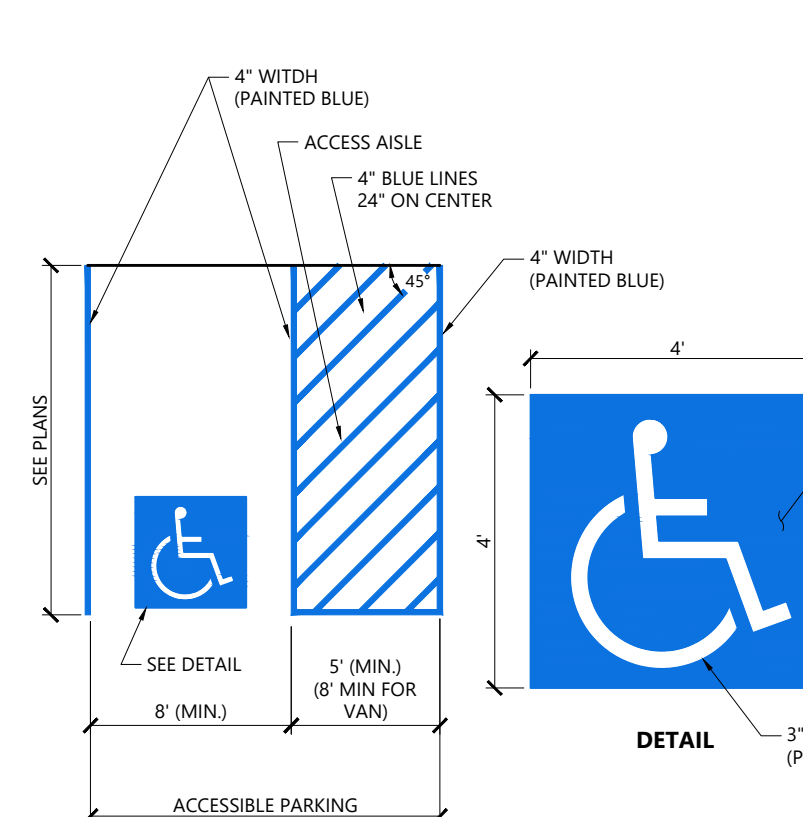


Bollard 9/17
N.T.S. Source: VHB LD_700



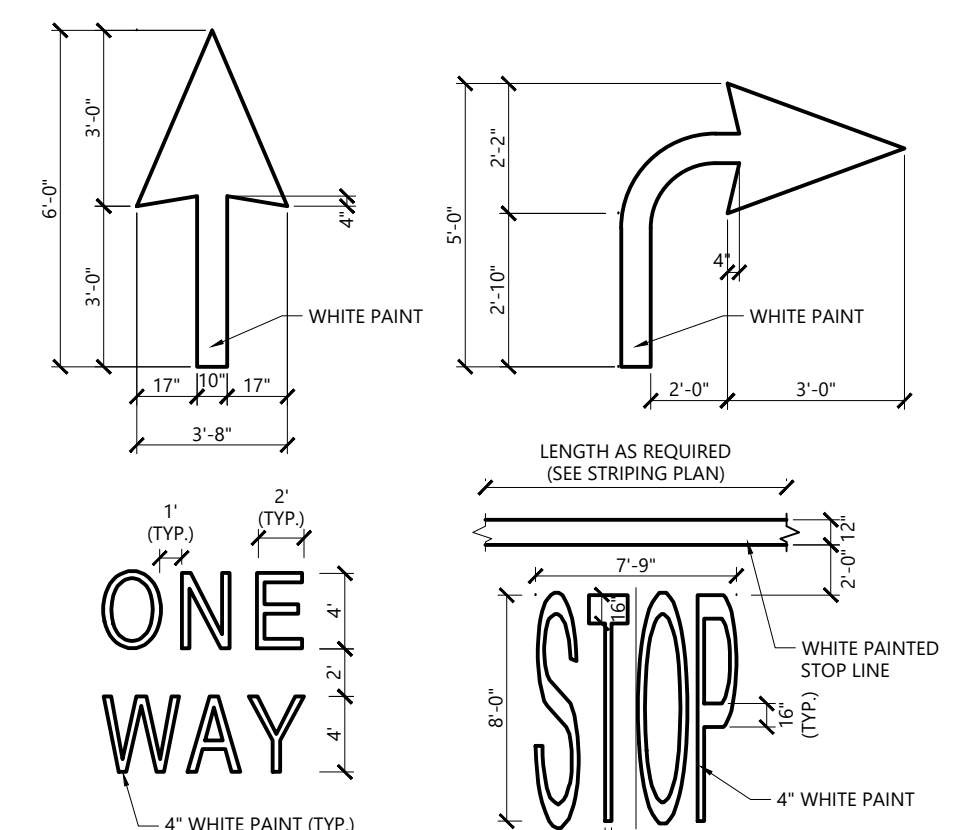
- NOTES**
1. TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION. NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
 2. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
 3. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY ALIGNED.
 4. CROSS WALK SIDESLOPE SHALL NOT EXCEED 1.5%.

Crosswalk 1/16
N.T.S. Source: VHB LD_553



- NOTES**
1. ALL DIMENSIONS TO EDGES OF 4" PAVEMENT STRIPING.
 2. 8' STALL WIDTH REFERS TO 8' CLEAR BETWEEN INSIDE EDGES OF PAVEMENT MARKINGS.
 3. ALL SLOPES THROUGHOUT THE ACCESSIBLE PARKING AND AISLE AREAS SHALL NOT EXCEED 1.5%.
 4. ACCESS AISLE MEASURED BETWEEN OUTSIDE EDGES OF PAVEMENT MARKINGS.

Accessible Parking Space 1/16
N.T.S. Source: VHB LD_552B



- NOTES**
1. PAVEMENT MARKINGS TO BE INSTALLED FOR ON SITE WORK IN LOCATIONS SHOWN.

Painted Pavement Markings - On Site 1/16
N.T.S. Source: VHB LD_554

NOTES

Approved by: _____

Devens Enterprise Commission

Commonwealth Fusion Systems Campus Building 2

111 Hospital Road
Devens, MA

No.	Revision	Date	Apprv.

Designed by: _____ Checked by: _____

Issued for: **Level Two Permit** Date: **Nov 5, 2020**

Not Approved for Construction

Site Details 2

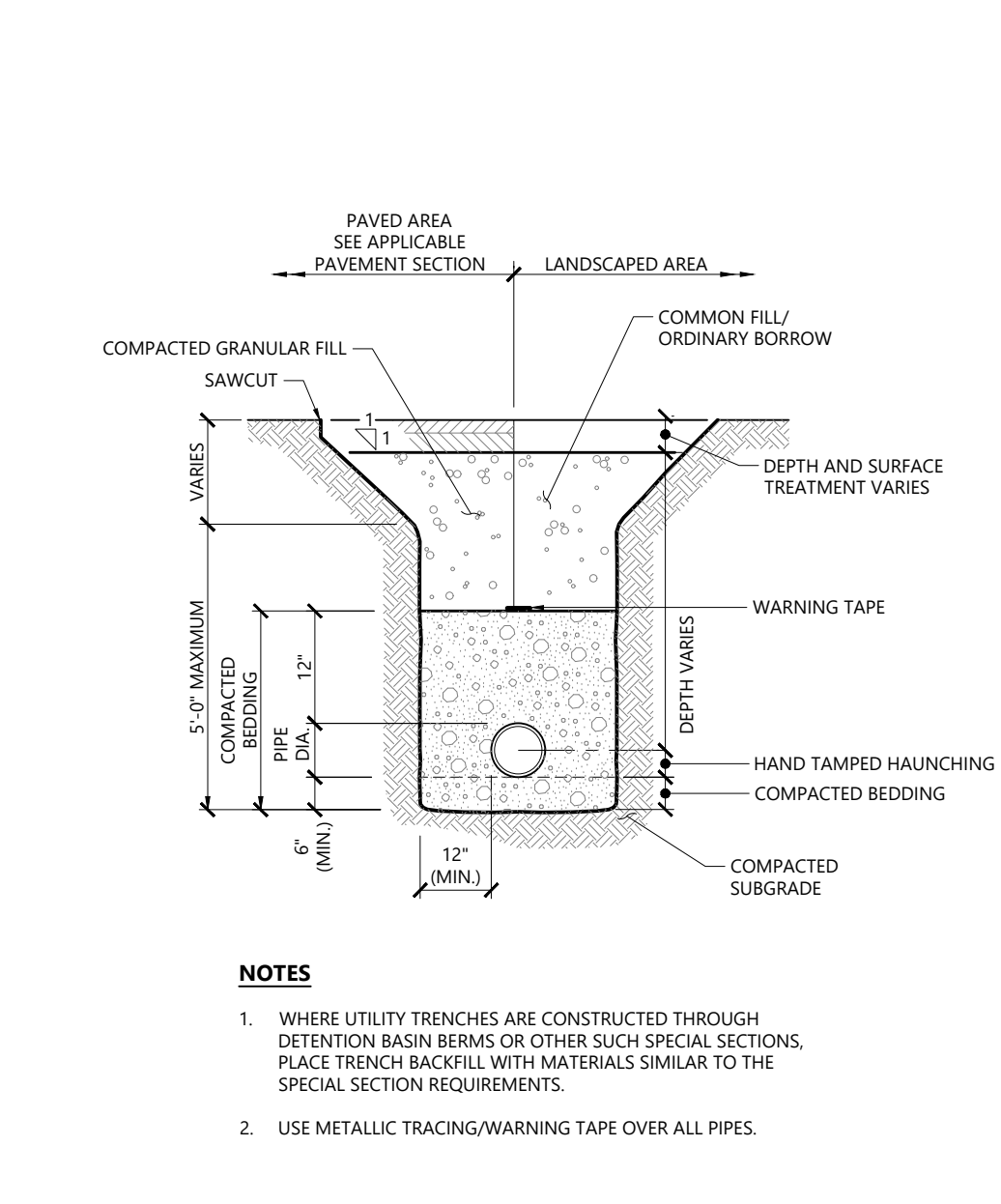
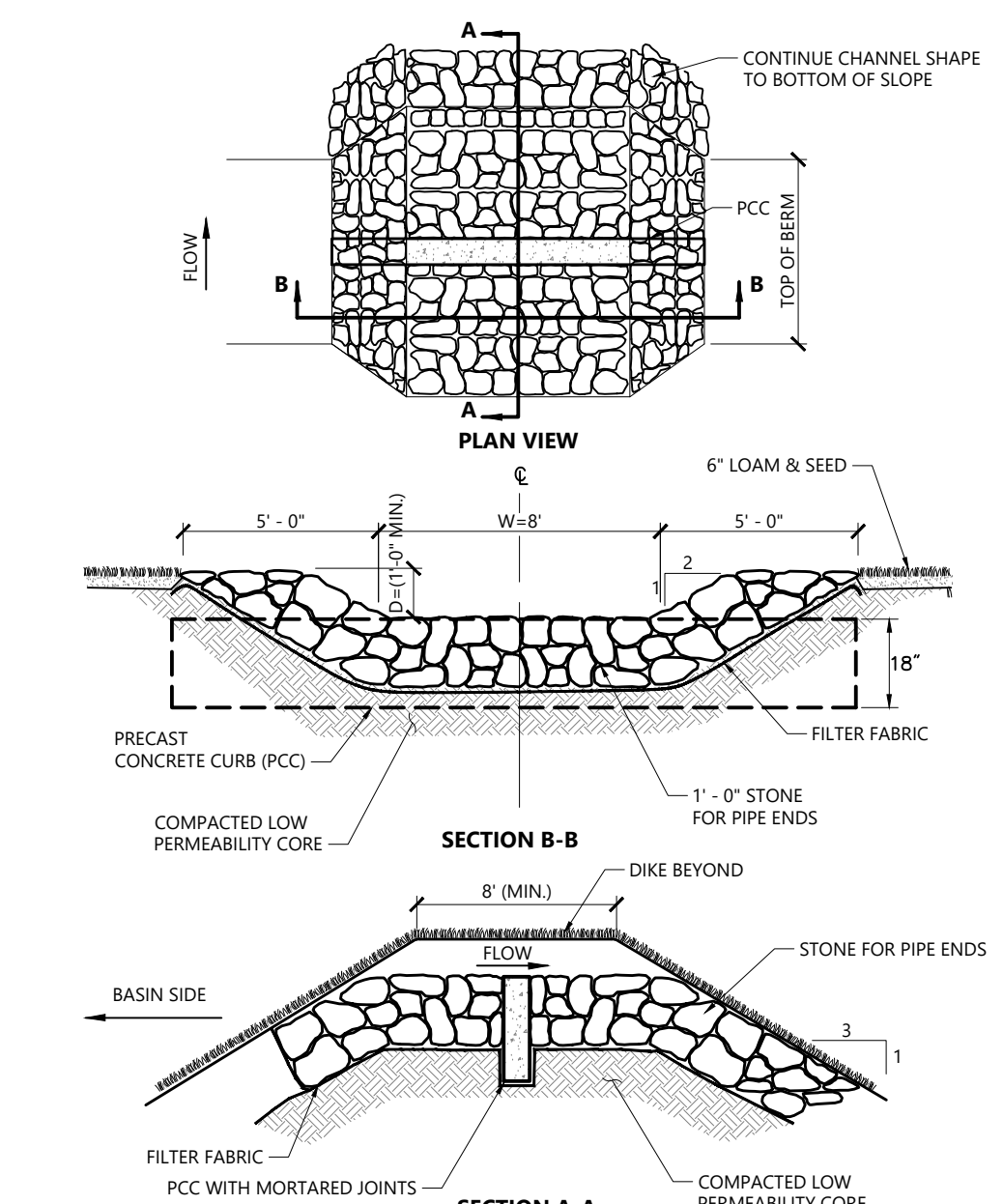
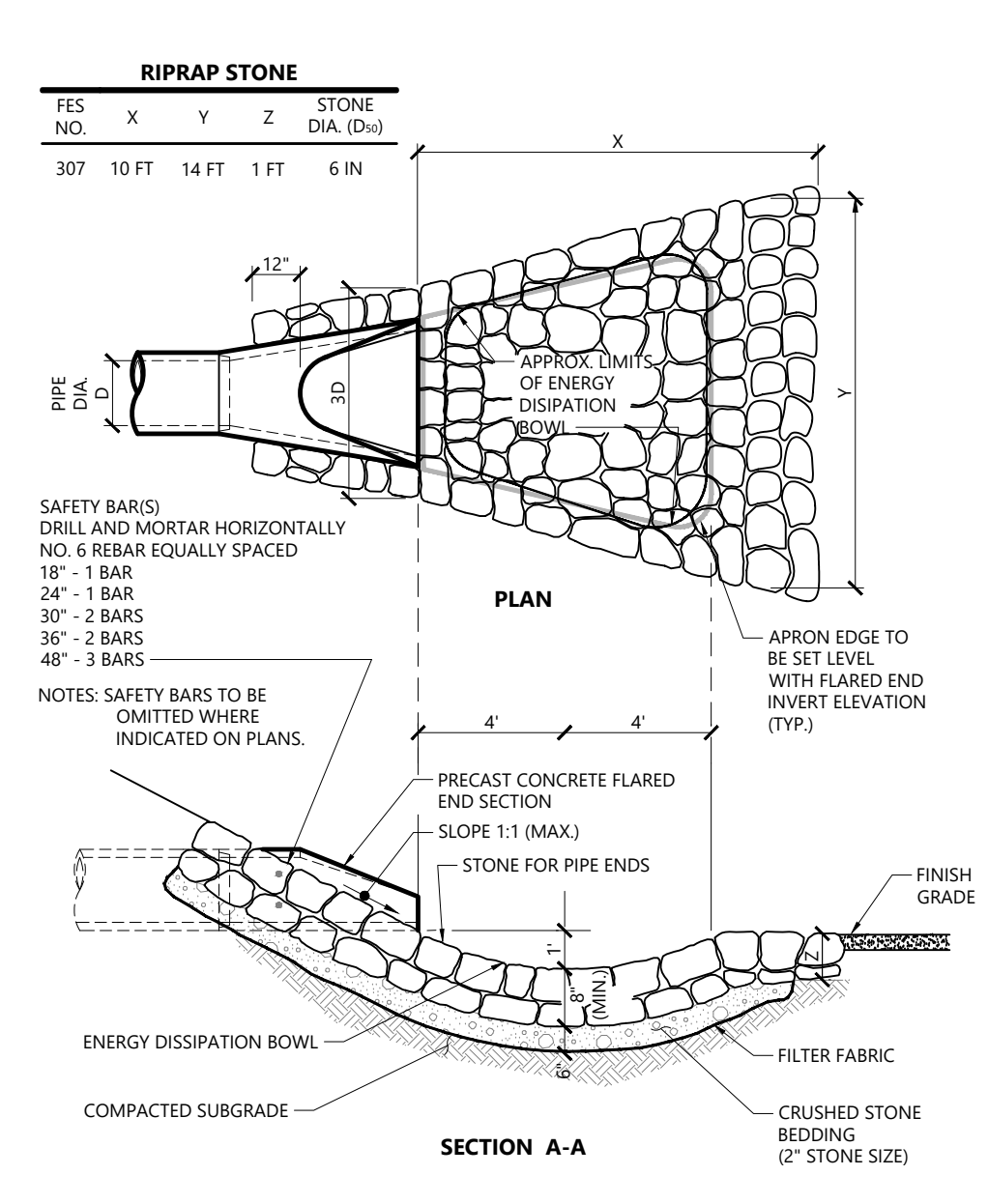
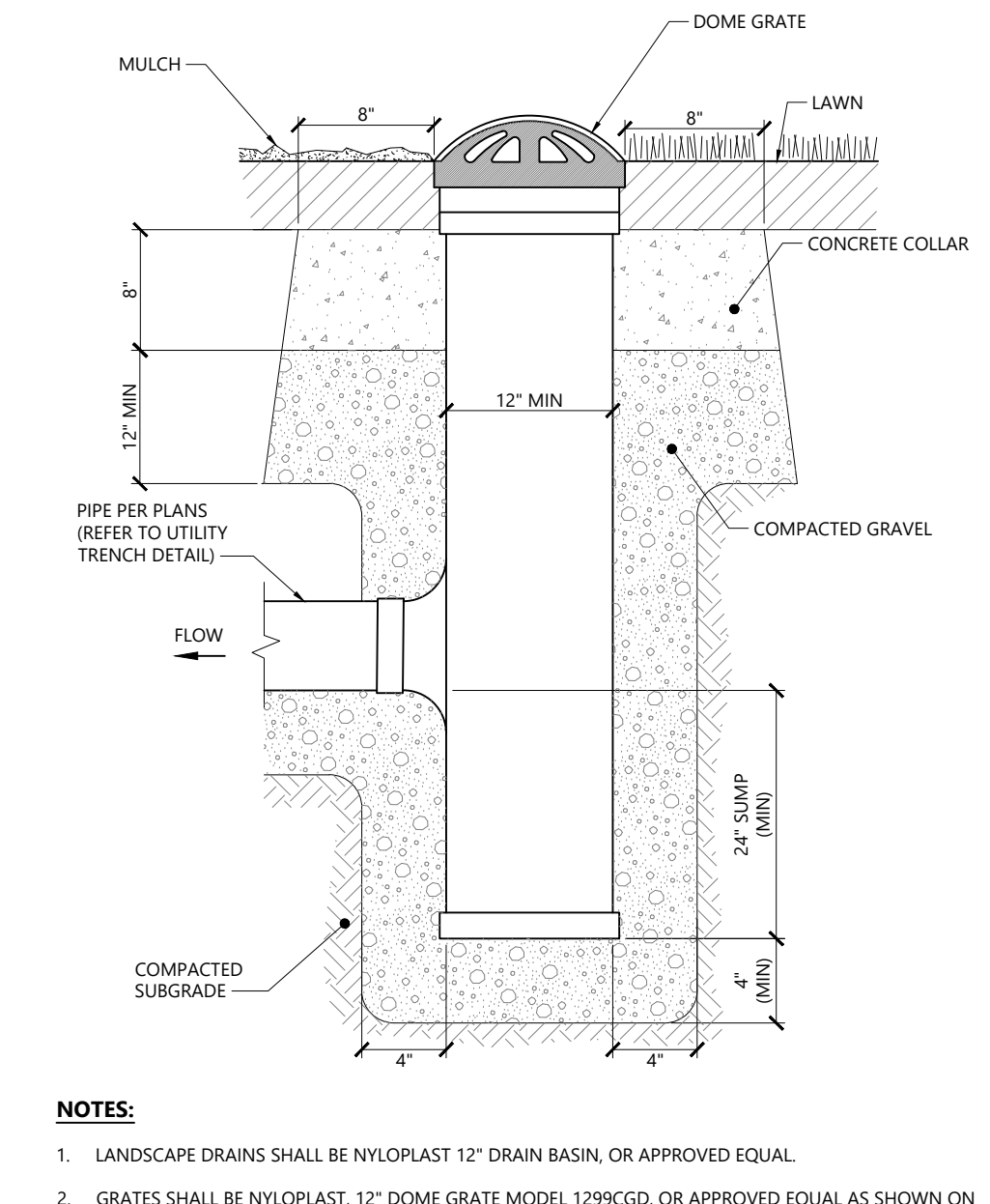
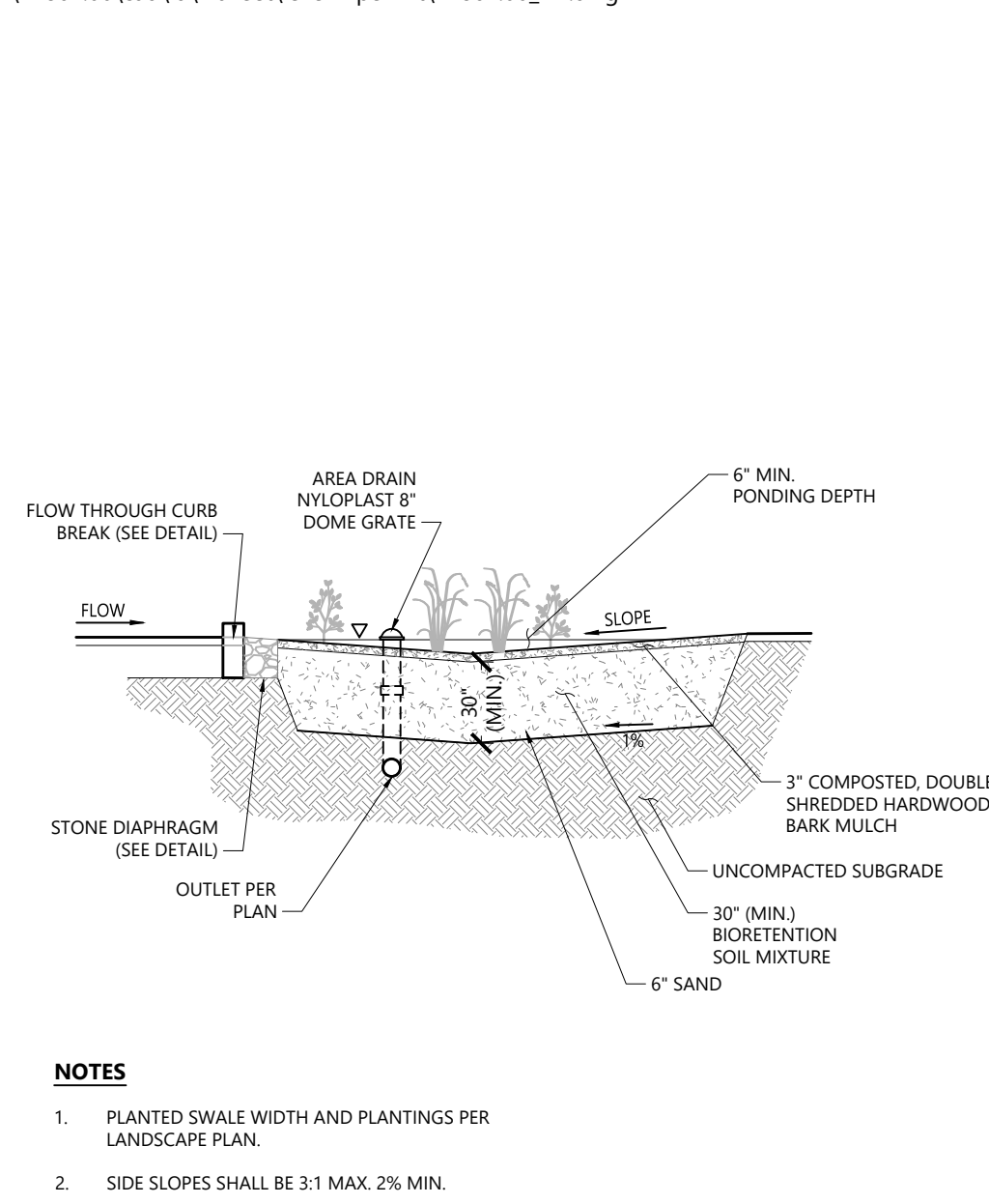
Drawing Number

C-8.02

Sheet 22 of 24

Project Number 14867.00

Jeffrey Black
11-4-2020



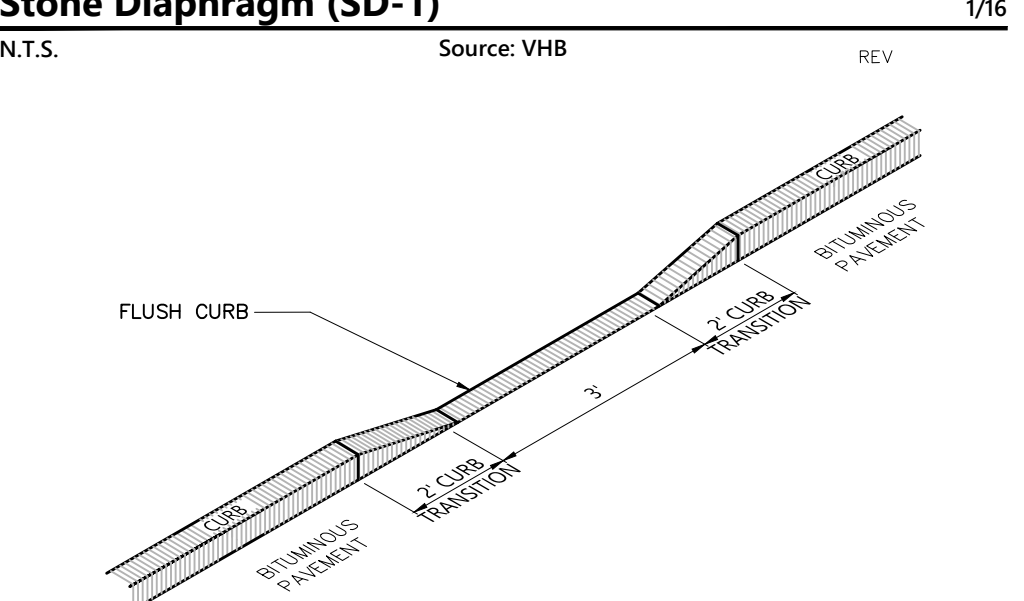
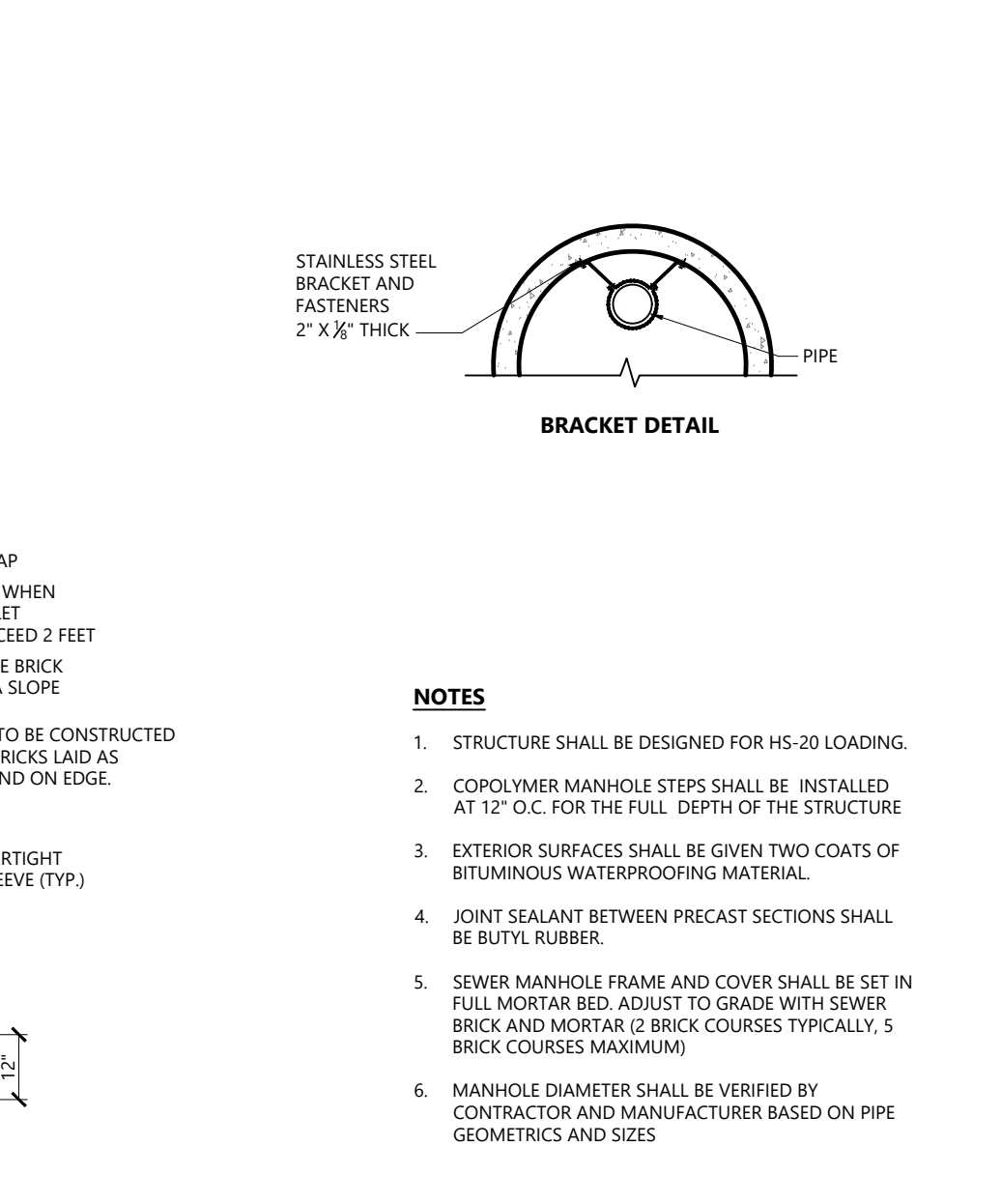
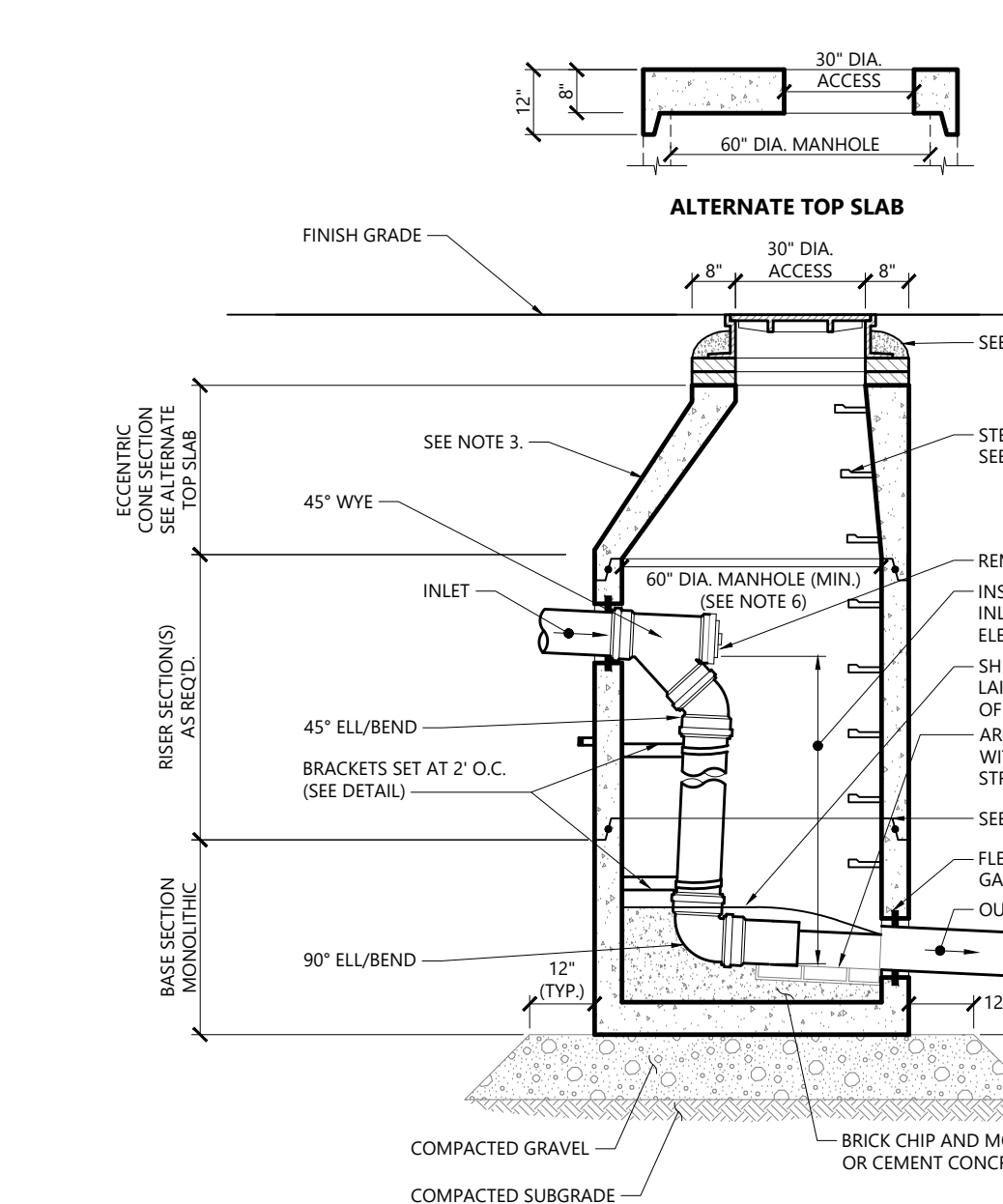
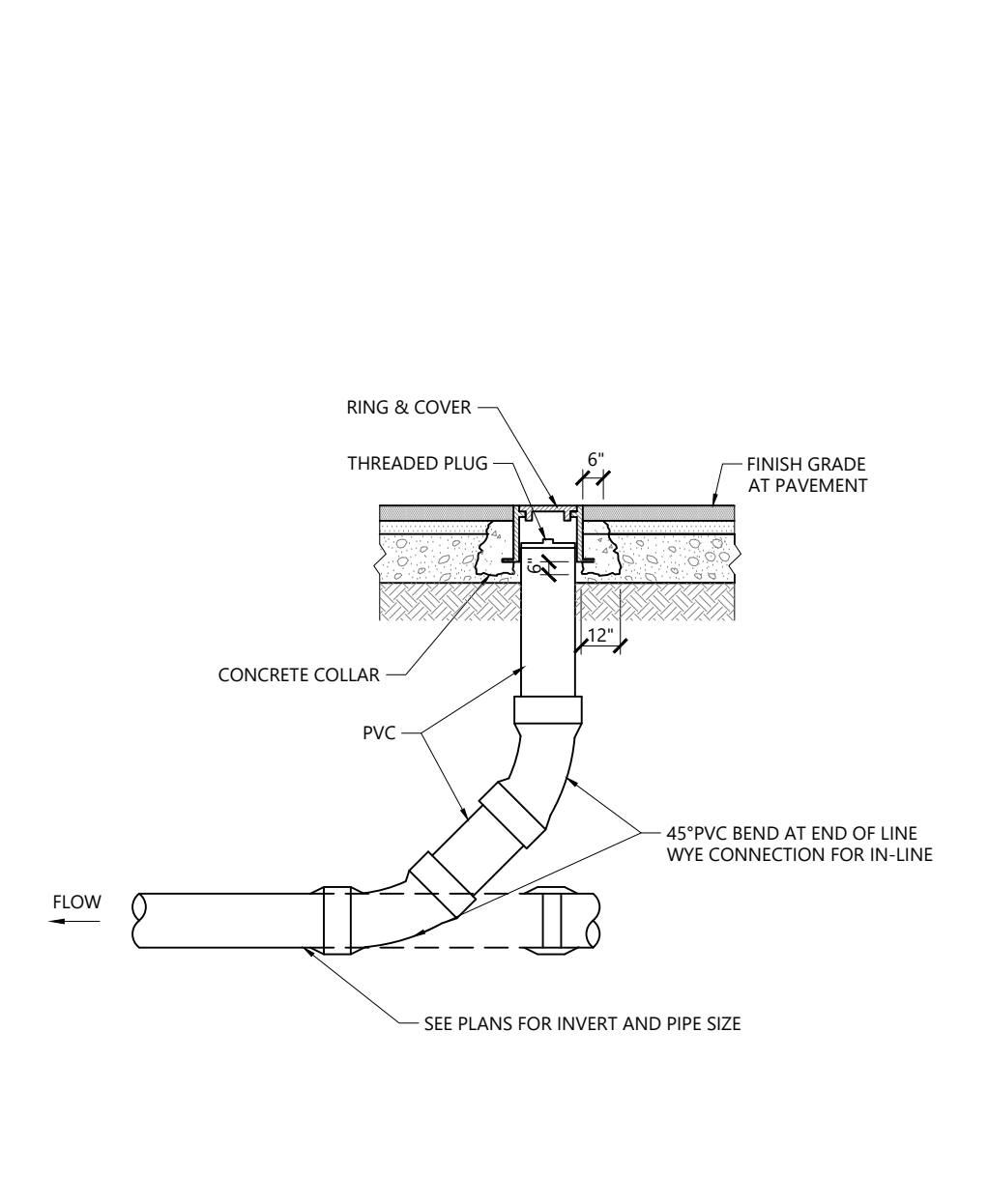
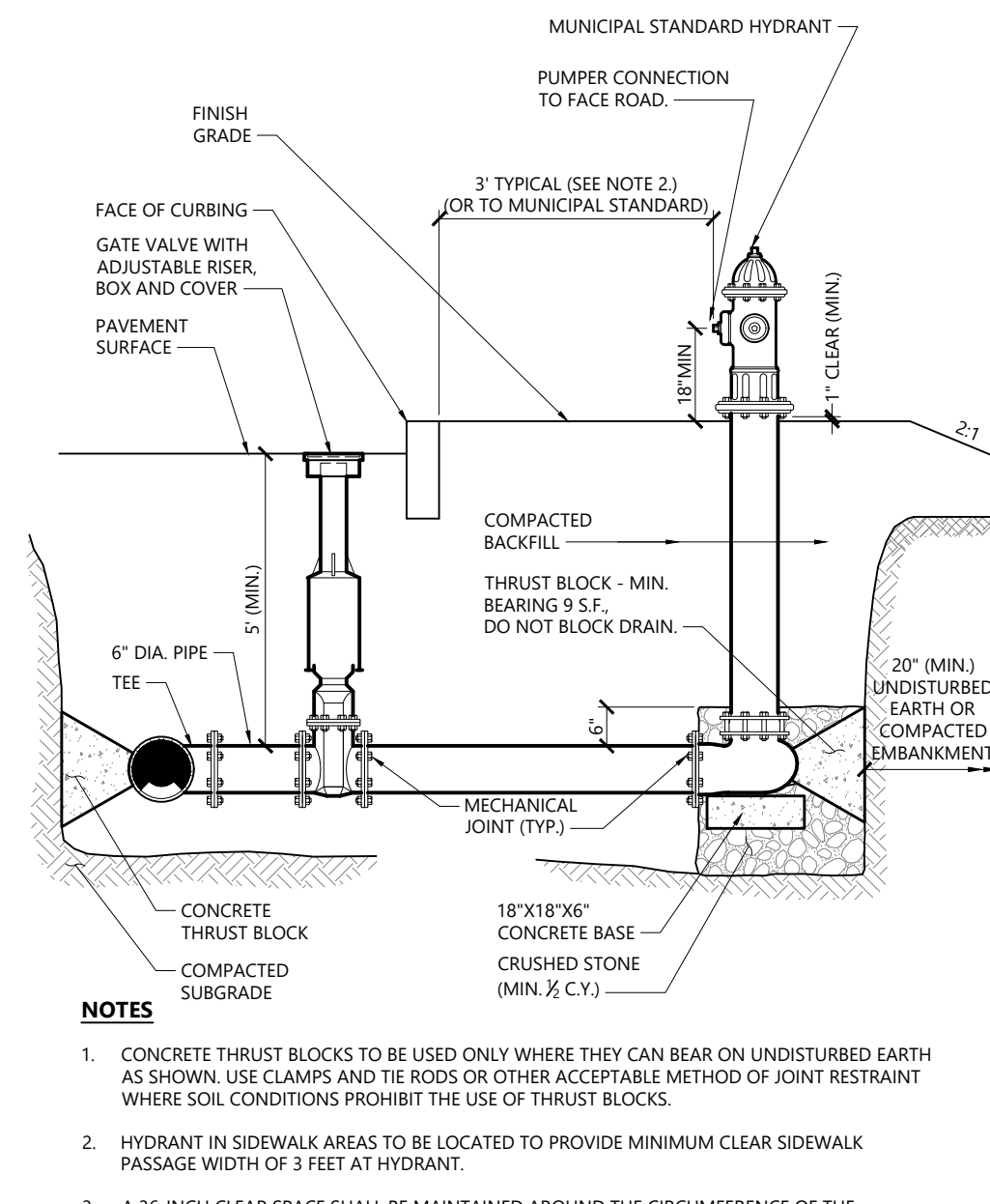
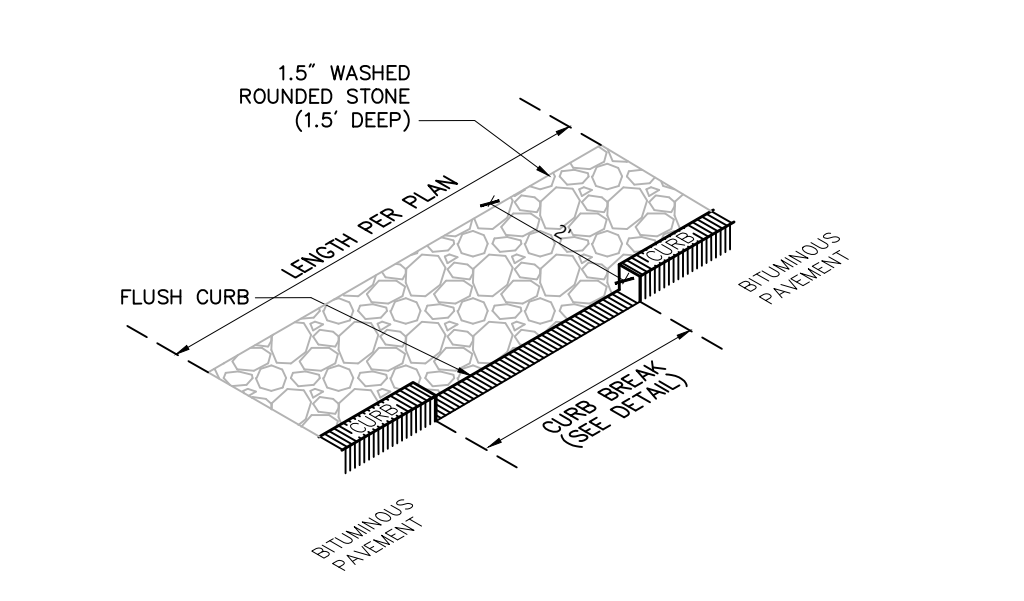
Planted Biofiltration Island
Source: VHB
REV LD_357

Area Drain (AD)
Source: VHB
REV LD_357

Flared End Section (FES) with Stone Protection
Source: VHB
REV LD_134

Overflow Stone Swale - SFB-1 Outlet
Source: VHB
REV LD_161

Utility Trench
Source: VHB
REV LD_300

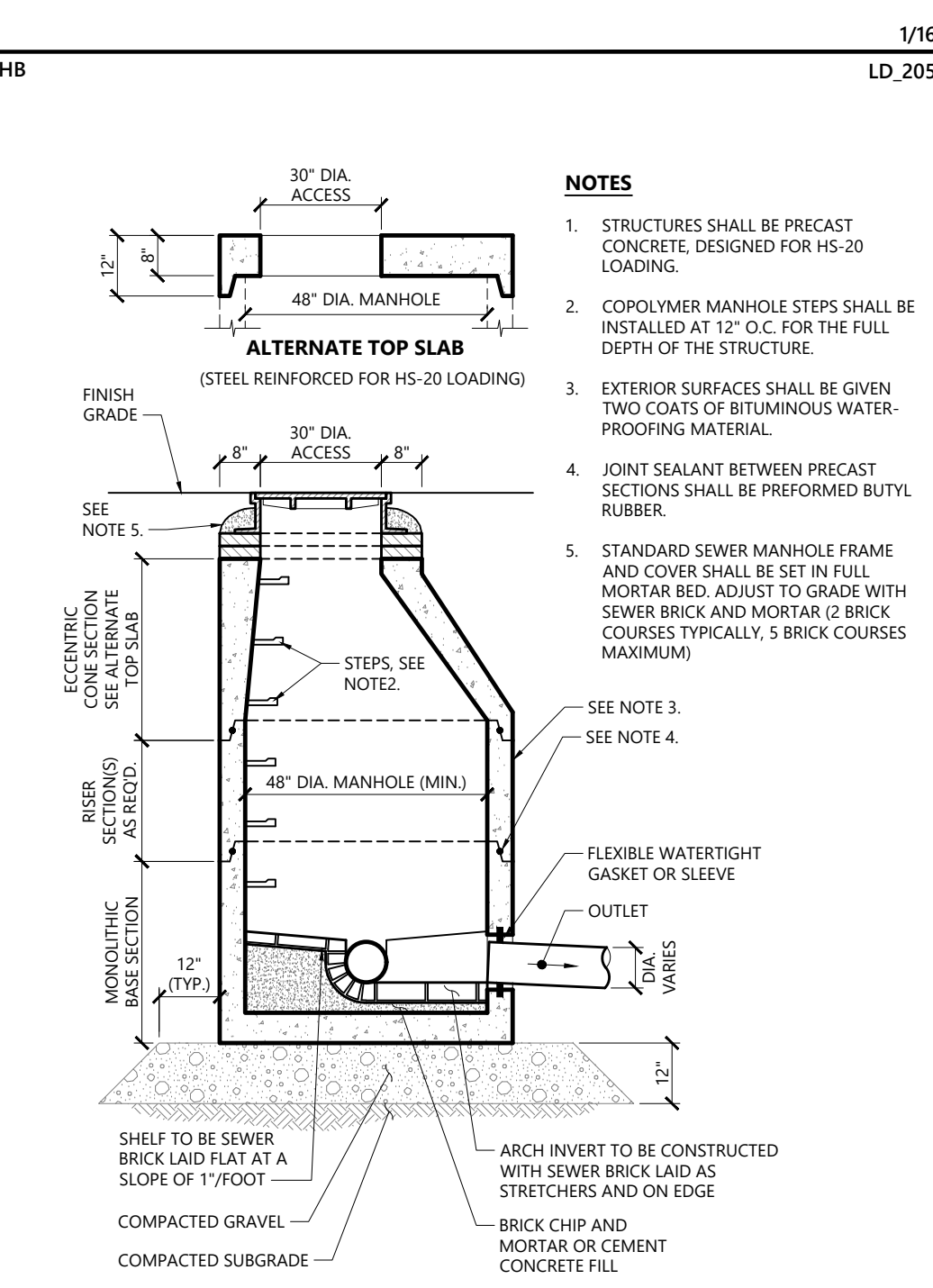
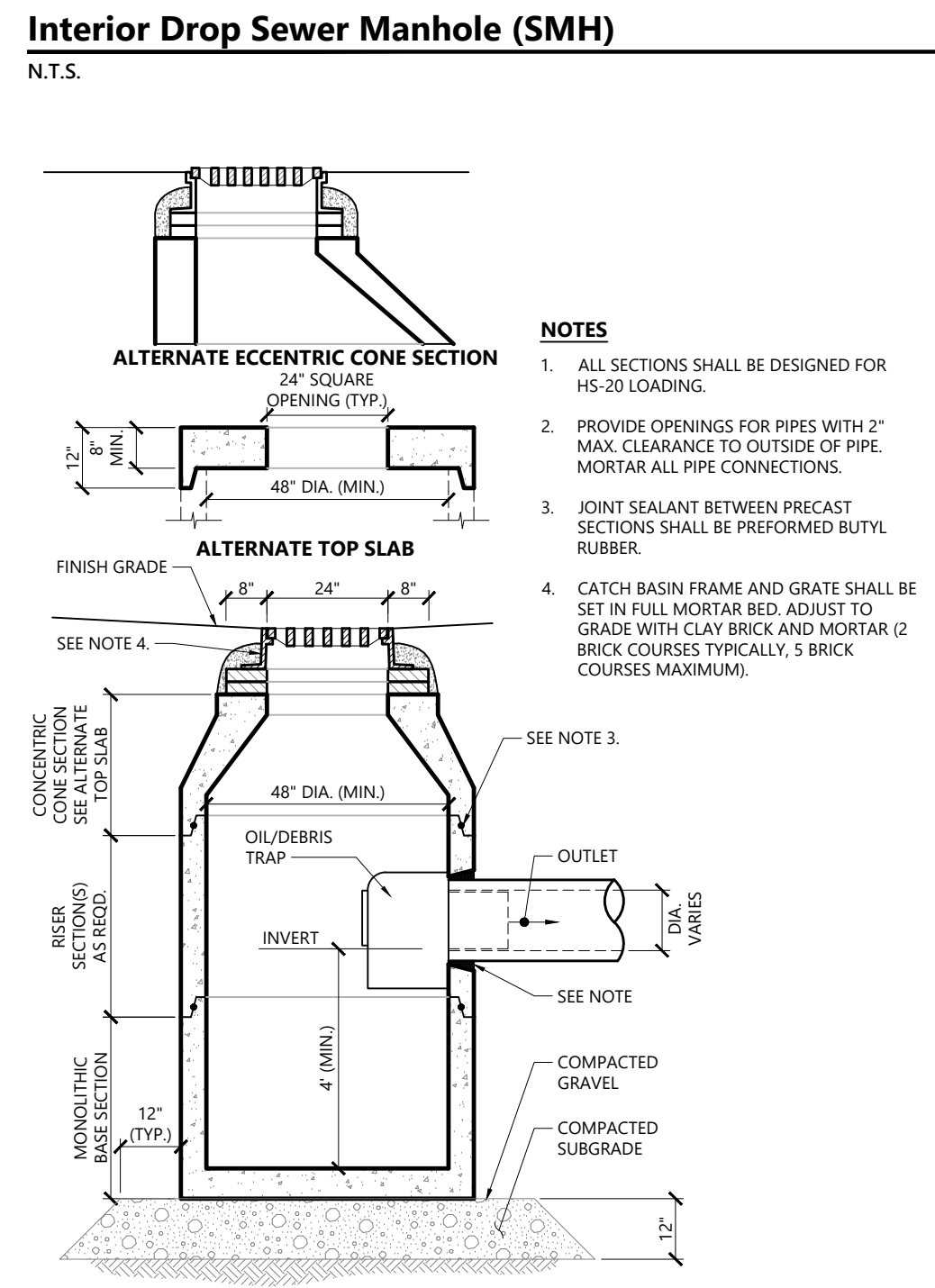
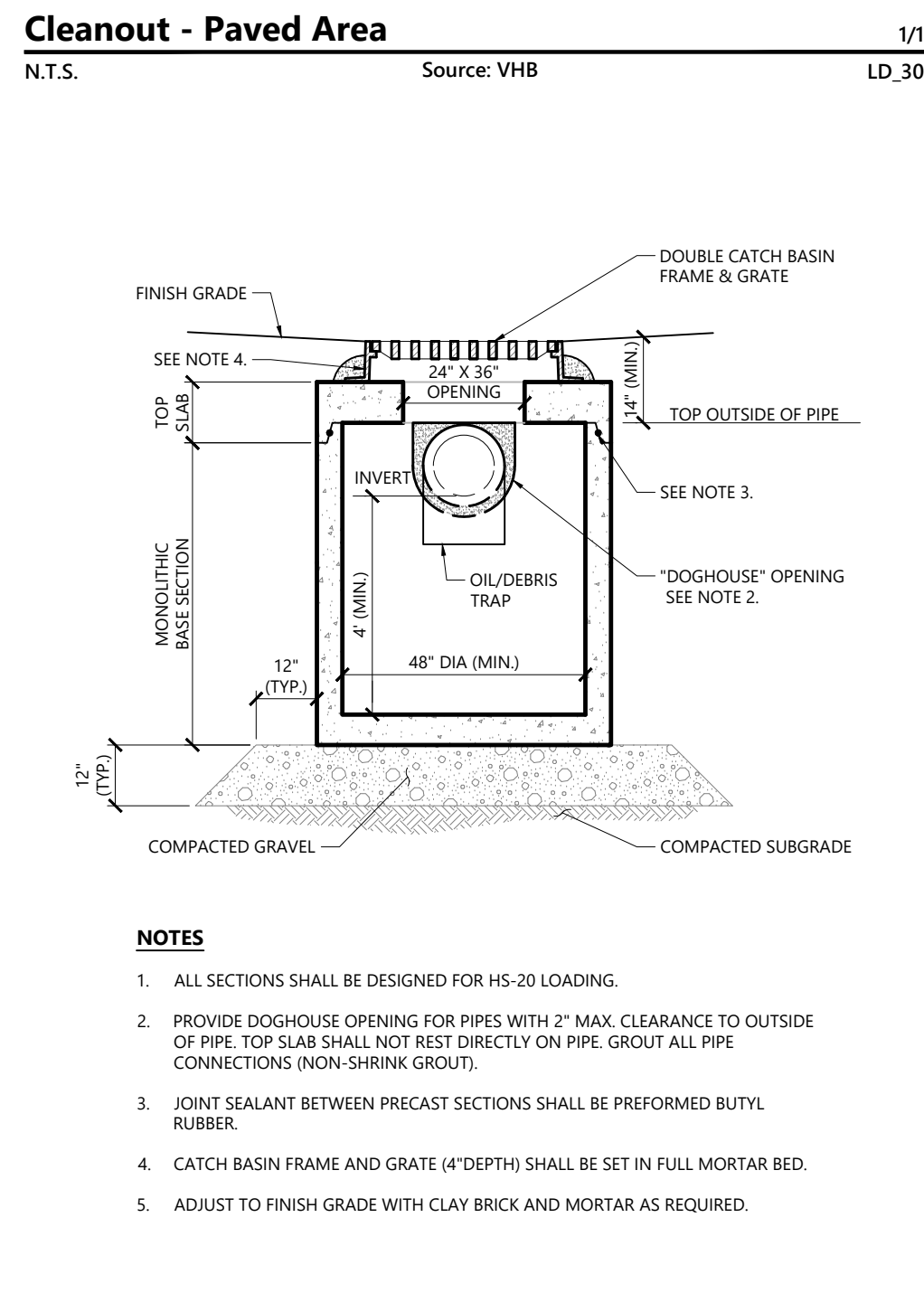
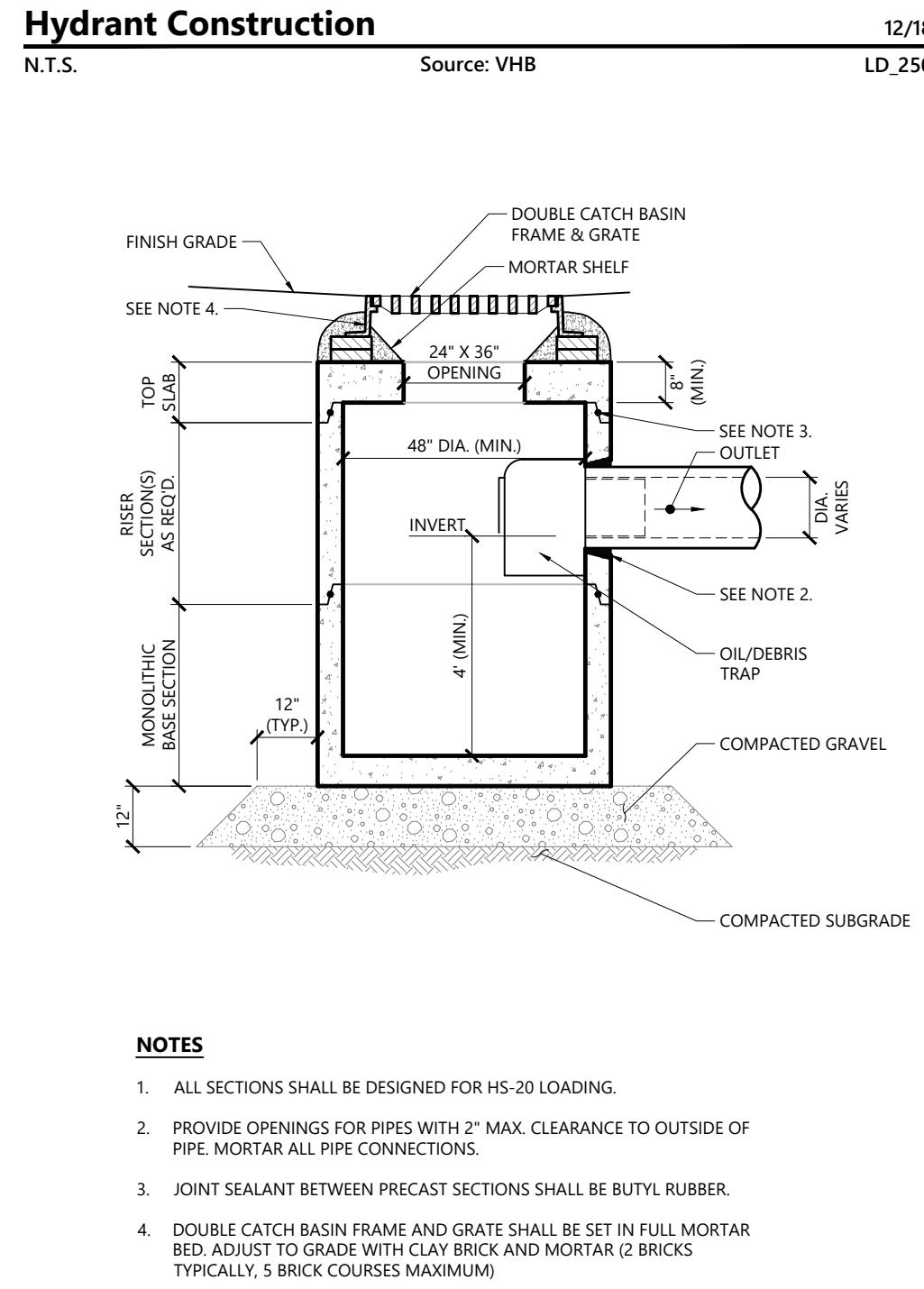
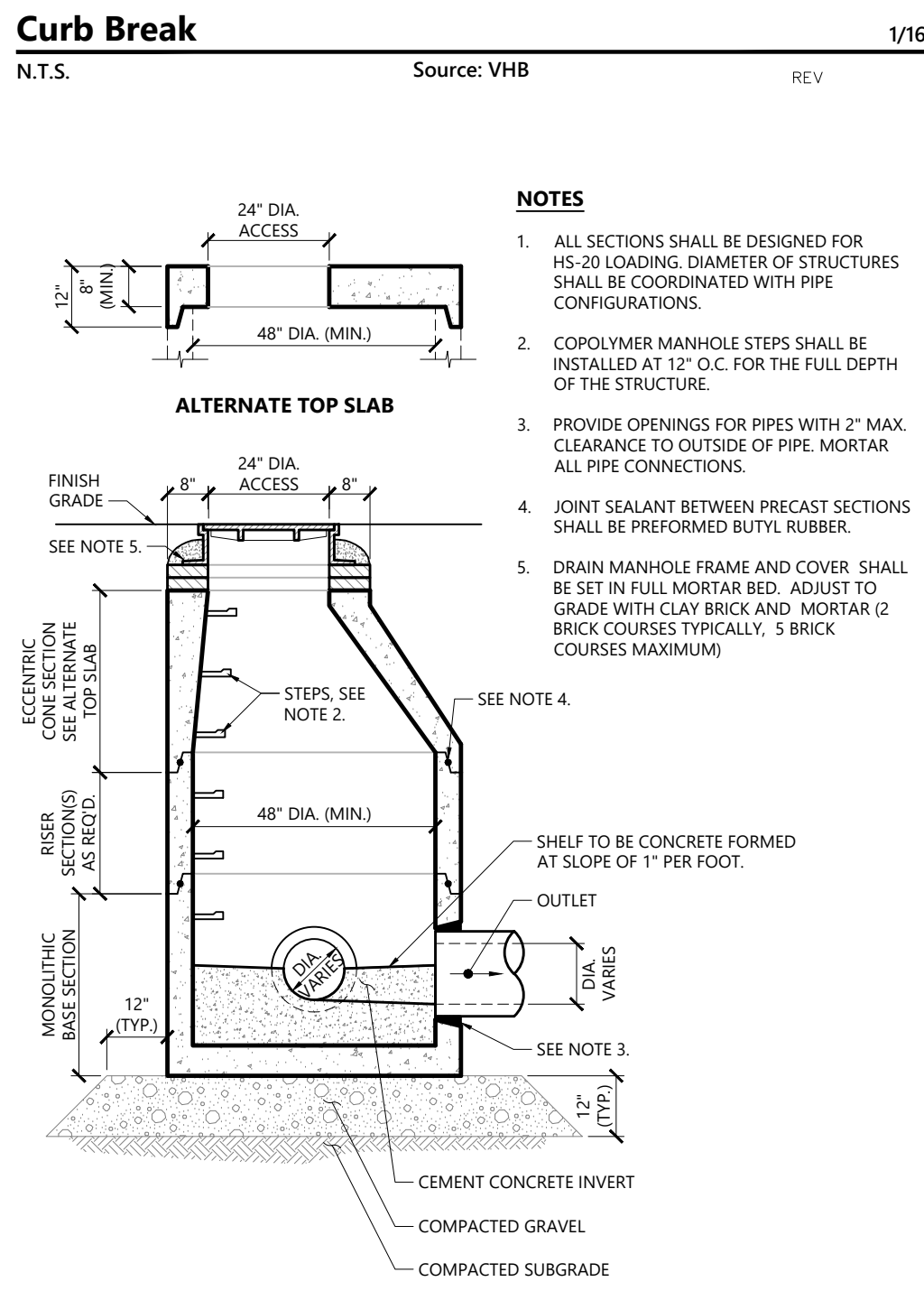


Hydrant Construction
Source: VHB
REV LD_250

Cleanout - Paved Area
Source: VHB
REV LD_303

Interior Drop Sewer Manhole (SMH)
Source: VHB
REV LD_205

Bracket Detail



NOTES

Approved by:

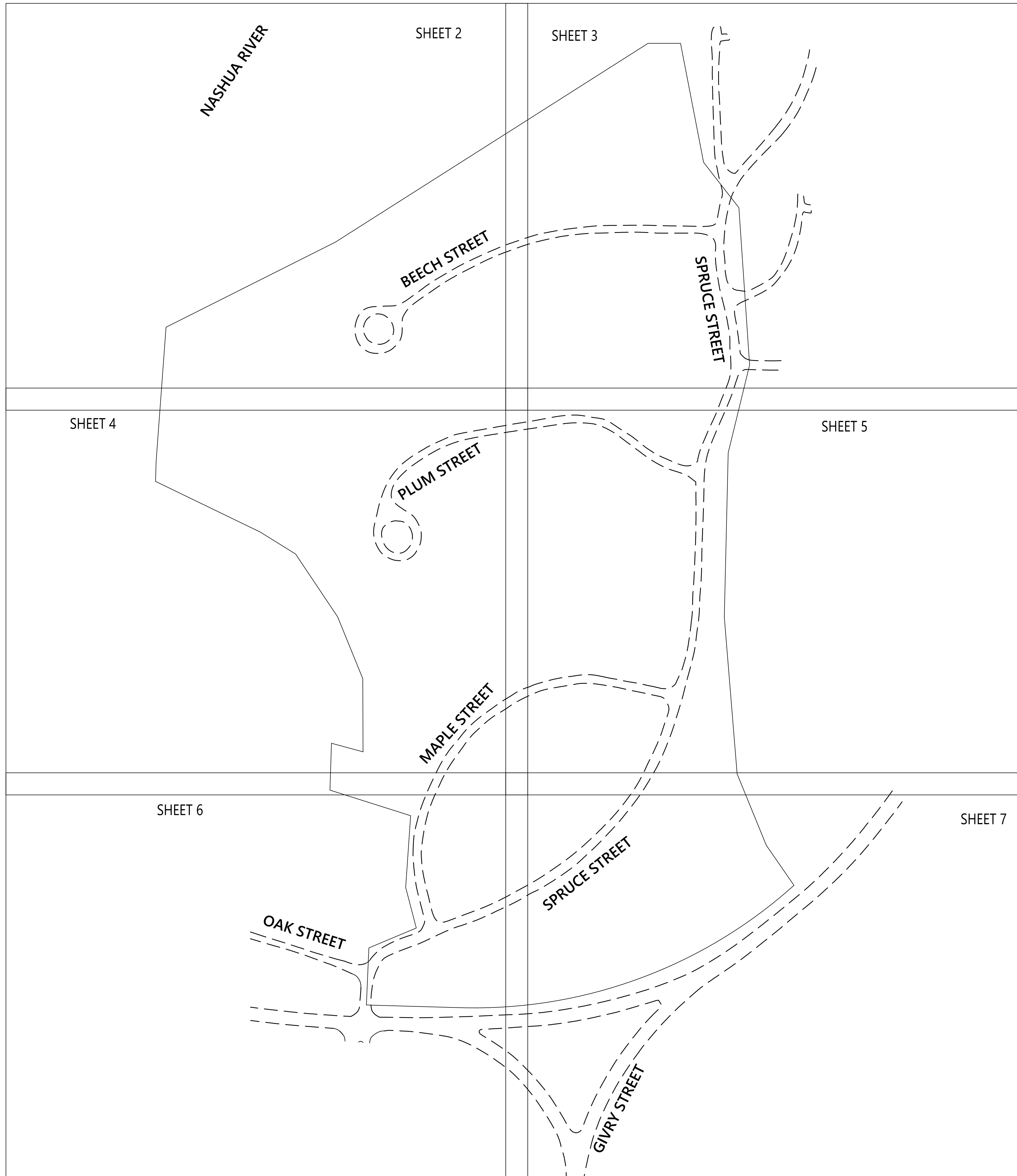
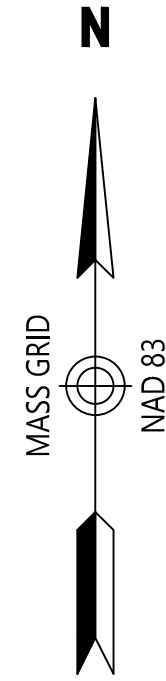
Devens Enterprise Commission

Commonwealth Fusion Systems Campus Building 2
111 Hospital Road
Devens, MA

No.	Revision	Date	Apprv.

Designed by: _____ Checked by: _____
Issued for: _____ Date: Nov 5, 2020
Level Two Permit
Not Approved for Construction
Site Details 3

Drawing Number: C-8.03
Sheet 23 of 24
Project Number: 14867.00
Professional Engineer: JEFFREY BLACK CIVIL No. 54531
Date: 11-4-2020



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

Legend

- ① DRAIN MANHOLE
- ⊞ CATCH BASIN
- ⊙ SEWER MANHOLE
- ⊙ ELECTRIC MANHOLE
- ⊙ TELEPHONE MANHOLE
- MANHOLE
- HH □ HAND HOLE
- ⊙ WATER GATE
- ⊙ FIRE HYDRANT
- ⊙ GAS GATE
- BOLLARD w/LIGHT
- STREET SIGN
- ⊙ LIGHT POLE
- ⊙ UTILITY POLE
- ⊙ GUY POLE
- ⊙ GUY WIRE
- ⊙ MONITORING WELL
- ⊙ FLOOD LIGHT
- ⊙ WELL
- ⊙ MARSH
- ⊙ F.F.E. = 45.27'
- ⊙ FINISHED FLOOR ELEVATION
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- DYL DOUBLE YELLOW LINE
- DWL DASHED WHITE LINE
- SYL SINGLE YELLOW LINE
- LSA LANDSCAPED AREA
- EOP — EDGE OF PAVEMENT
- CC — CONCRETE CURB
- VGC — VERTICAL GRANITE CURB
- SGE — SLOPED GRANITE EDGE
- BB — BITUMINOUS BERM
- BE — BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OHW — OVERHEAD WIRE
- E — UNDERGROUND ELECTRIC
- T — TELEPHONE LINE
- G — GAS LINE
- W — WATER LINE
- STONE WALL
- TREE LINE
- 100BZ — 100-FT BUFFER ZONE
- 100RA — 100-FT RIVER FRONT AREA
- 200RA — 200-FT RIVER FRONT AREA
- AF1-100 — LIMIT MEAN ANNUAL HIGH WATER
- BF1-100 — LIMIT OF BANK
- WFT-100 — VEGETATED WETLAND BOUNDARY

Devens
111 Hospital Road
Devens, Massachusetts

No.	Revision	Date	Appd.
1	ZONING & AQUIFER DISTRICTS ADDED	10/7/20	CDKR
2	TREE SURVEY ADDED	10/16/20	CDKR
3	REVISED BOUNDARY	10/20/20	CDKR

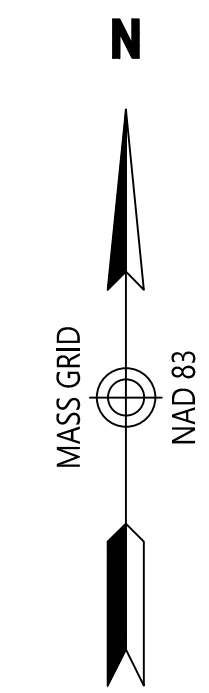
Designed by _____ Checked by _____
Issued for _____ Date July 21, 2020



Professional seal for Russell J. Bousquet, No. 35389, State of Massachusetts. Includes a signature and the text 'Sv-1'.



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



Record Owner

MDFA
111 HOSPITAL ROAD
DEVENS, MASS.
PARCEL 018.0-0007-0100.0
BOOK 26317, PAGE 3

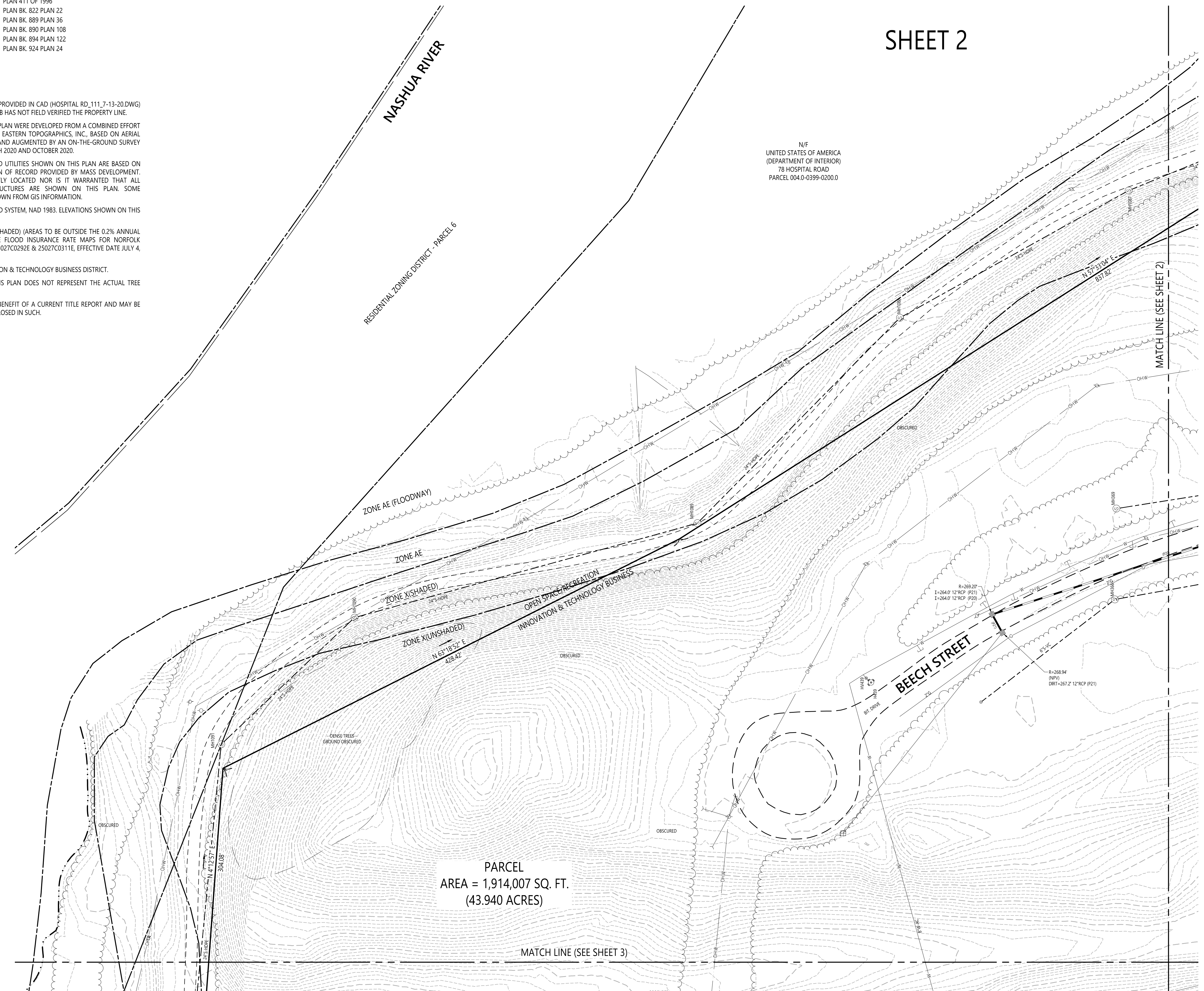
Plan References

REGISTRY OF DEEDS
PLAN 411 OF 1996
PLAN BK. 822 PLAN 22
PLAN BK. 889 PLAN 36
PLAN BK. 890 PLAN 108
PLAN BK. 894 PLAN 122
PLAN BK. 924 PLAN 24

General Notes

- 1) THE PROPERTY LINES SHOWN ON THIS PLAN PROVIDED IN CAD (HOSPITAL_RD_111_7-13-20.DWG) BY MASS DEVELOPMENT ON JULY 17, 2020. VHB HAS NOT FIELD VERIFIED THE PROPERTY LINE.
- 2) THE EXISTING CONDITIONS SHOWN ON THIS PLAN WERE DEVELOPED FROM A COMBINED EFFORT OF AERIAL PHOTOGRAMMETRIC MAPPING BY EASTERN TOPOGRAPHICS, INC., BASED ON AERIAL PHOTOGRAPHS TAKEN ON MARCH 19, 2020, AND AUGMENTED BY AN ON-THE-GROUND SURVEY PERFORMED BY VHB DURING BETWEEN MARCH 2020 AND OCTOBER 2020.
- 3) THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS AND GIS INFORMATION OF RECORD PROVIDED BY MASS DEVELOPMENT. THEY ARE NOT WARRANTED TO BE EXACTLY LOCATED NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN. SOME STRUCTURES WERE NOT FOUND AND ARE SHOWN FROM GIS INFORMATION.
- 4) HORIZONTAL DATUM IS BASED ON MASS. GRID SYSTEM, NAD 1983. ELEVATIONS SHOWN ON THIS PLAN REFER TO NAVD OF 1988.
- 5) THE LOT LIES ENTIRELY WITHIN ZONE X (UNSHADED) (AREAS TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON THE FLOOD INSURANCE RATE MAPS FOR NORFOLK COUNTY, MASSACHUSETTS, MAP NUMBERS 25027C0292E & 25027C0311E, EFFECTIVE DATE JULY 4, 2011.
- 6) THE LOT LIES ENTIRELY WITHIN THE INNOVATION & TECHNOLOGY BUSINESS DISTRICT.
- 7) THE TREE SYMBOL OUTLINE SHOWN ON THIS PLAN DOES NOT REPRESENT THE ACTUAL TREE CANOPY.
- 8) THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT AND MAY BE SUBJECT TO ADDITIONAL INFORMATION DISCLOSED IN SUCH.

SHEET 2



Legend

- ① DRAIN MANHOLE
- ② CATCH BASIN
- ③ SEWER MANHOLE
- ④ ELECTRIC MANHOLE
- ⑤ TELEPHONE MANHOLE
- MANHOLE
- HAND HOLE
- WATER GATE
- FIRE HYDRANT
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- BOLLARD w/LIGHT
- STREET SIGN
- LIGHT POLE
- UTILITY POLE
- GUY POLE
- GUY WIRE
- MONITORING WELL
- FLOOD LIGHT
- WELL
- MARSH
- F.F.E = 45.27'
- FINISHED FLOOR ELEVATION
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- DYL DOUBLE YELLOW LINE
- DWL DASHED WHITE LINE
- SYL SINGLE YELLOW LINE
- LSA LANDSCAPED AREA
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SGE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GR GUARD RAIL
- CLF CHAIN LINK FENCE
- DL DRAINAGE LINE
- SL SEWER LINE
- OHW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
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- TL TREE LINE
- 100BZ 100-FT BUFFER ZONE
- 100RA 100-FT RIVER FRONT AREA
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- EB 8:1-100 LIMIT OF BANK
- WFT-100 VEGETATED WETLAND BOUNDARY

Devens

111 Hospital Road
Devens, Massachusetts

No.	Revision	Date	App'd.
1	ZONING & AQUIFER DISTRICTS ADDED	10/7/20	CDKR
2	TREE SURVEY ADDED	10/16/20	CDKR
3	REVISED BOUNDARY	10/20/20	CDKR

Designed by: _____ Checked by: _____
 Issued for: _____ Date: July 21, 2020

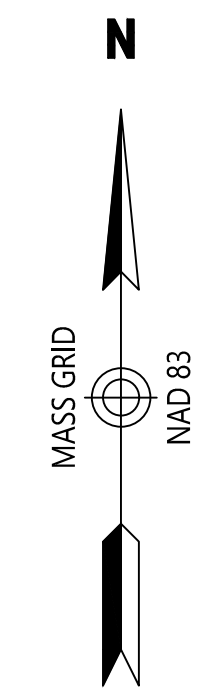
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**Existing Conditions
Plan of Land**

Sheet **Sv-2** of 7

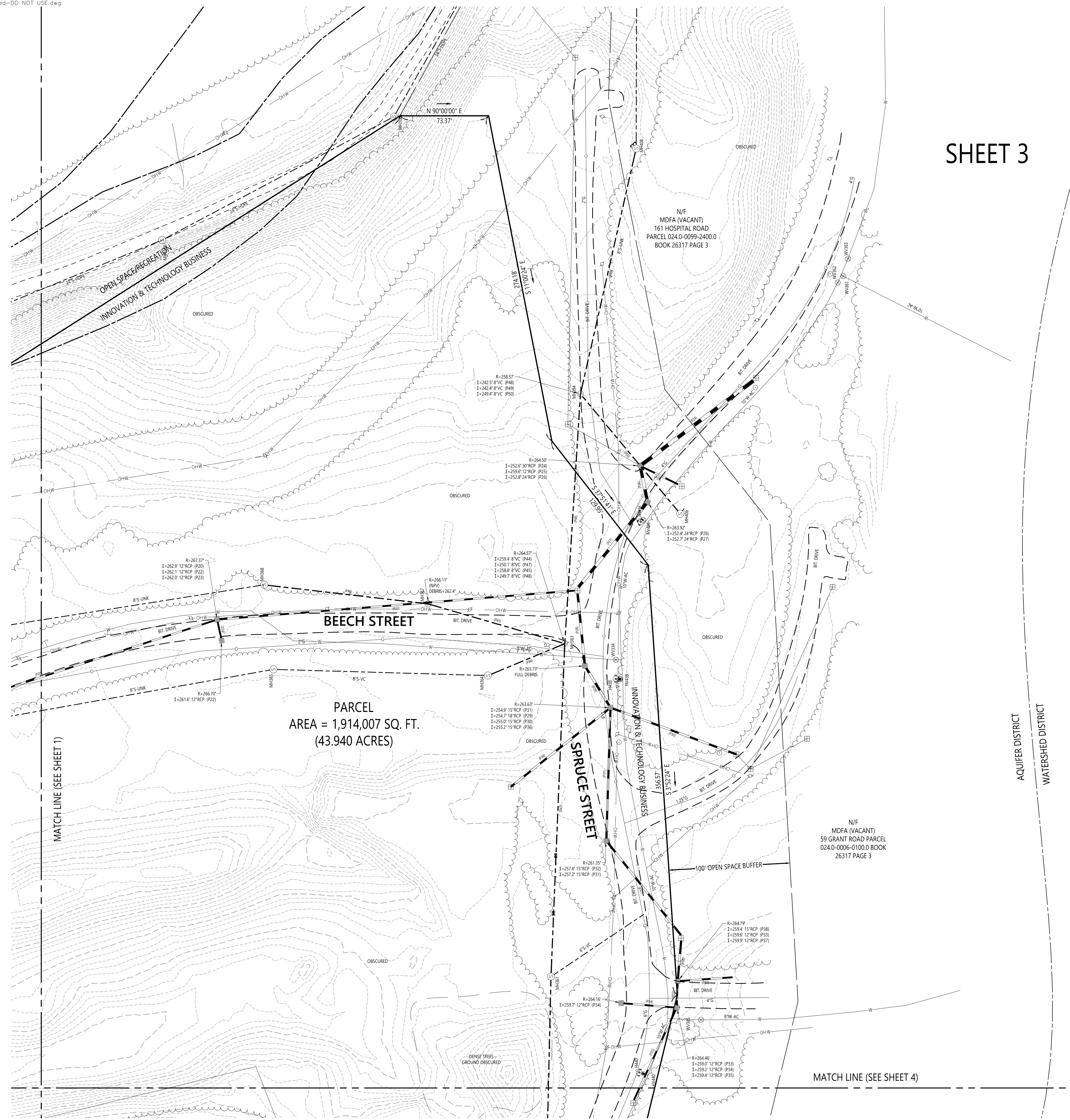
Project Number
14867.01



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



SHEET 3



Legend

- ⊕ DRAIN MANHOLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ ELECTRIC MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ MANHOLE
- ⊕ HAND HOLE
- ⊕ WATER GATE
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- ⊕ F.F.E = 45.27'
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- EDGE OF PAVEMENT
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- VGC VERTICAL GRANITE CURB
- SSE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GUARD RAIL
- CHAIN LINK FENCE
- DRAINAGE LINE
- SEWER LINE
- OHW OVERHEAD WIRE
- UNDERGROUND ELECTRIC
- TELEPHONE LINE
- GAS LINE
- WATER LINE
- STONE WALL
- TREE LINE
- 100BZ 100-FT BUFFER ZONE
- 100PRA 100-FT RIVER FRONT AREA
- 200PRA 200-FT RIVER FRONT AREA
- LIMIT MEAN ANNUAL HIGH WATER
- LIMIT OF BANK
- WFT-100 VEGETATED WETLAND BOUNDARY

Devens
111 Hospital Road
Devens, Massachusetts

No.	Revision	Date	Appvd.
1	ZONING & AQUIFER DISTRICTS ADDED	10/7/20	CDKR
2	TREE SURVEY ADDED	10/16/20	CDKR
3	REVISED BOUNDARY	10/20/20	CDKR

Designed by: _____ Checked by: _____
Issued for: _____ Date: **July 21, 2020**

Drawing Title
**Existing Conditions
Plan of Land**

Drawing Number

Sv-3

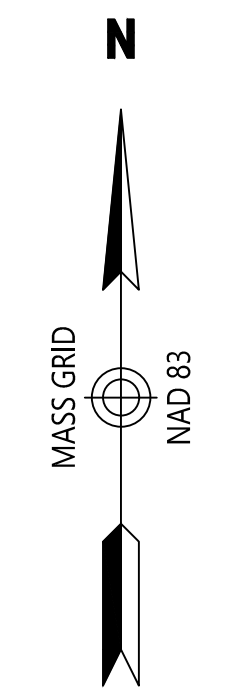
Sheet 3 of 7

Project Number
14867.01



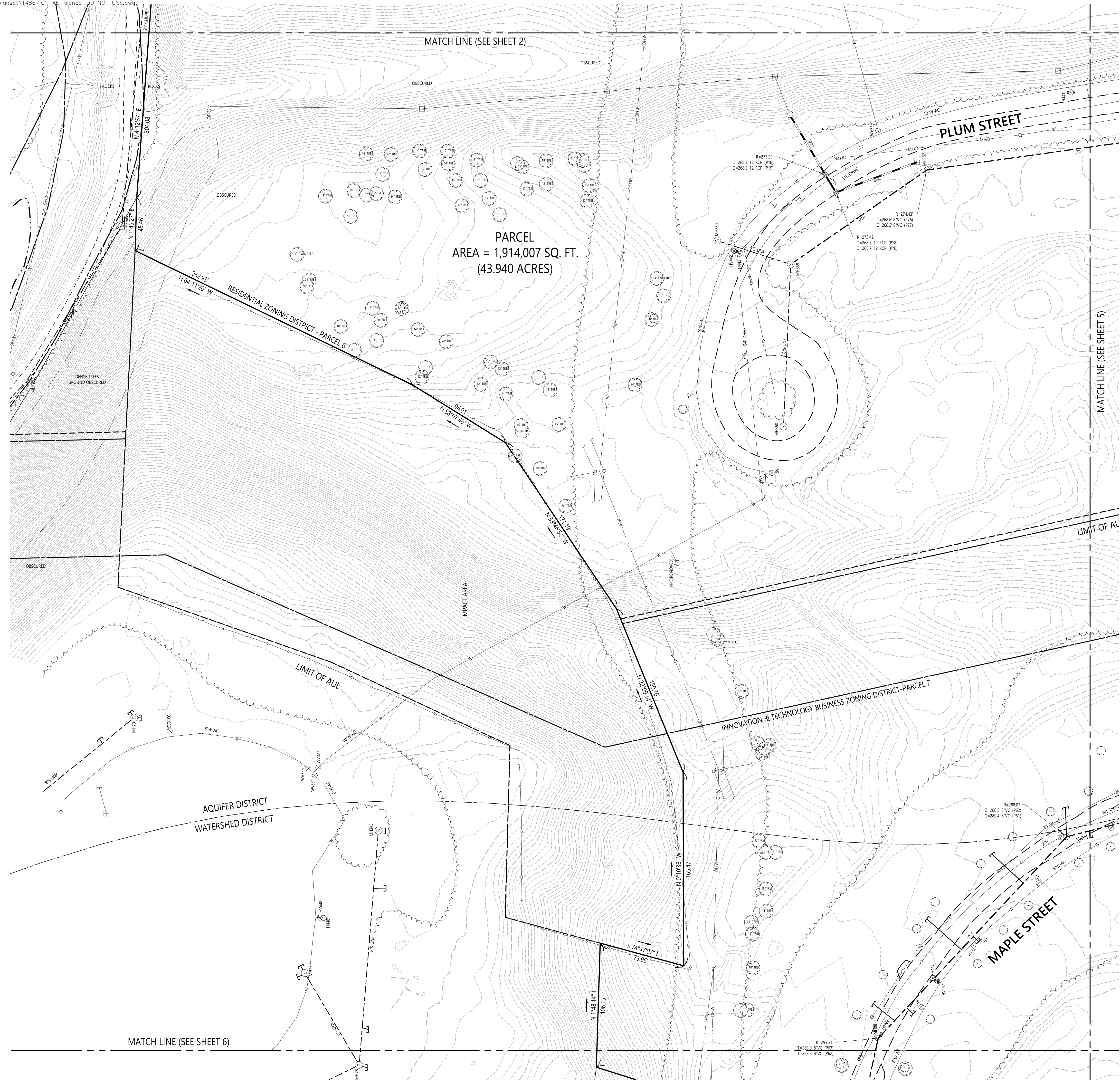


101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



Legend

- ⊕ DRAIN MANHOLE
- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ ELECTRIC MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ MANHOLE
- ⊕ HAND HOLE
- ⊕ WATER GATE
- ⊕ FIRE HYDRANT
- ⊕ GAS GATE
- ⊕ BOLLARD w/LIGHT
- ⊕ STREET SIGN
- ⊕ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ GUY WIRE
- ⊕ GUY WIRE
- ⊕ MONITORING WELL
- ⊕ FLOOD LIGHT
- ⊕ WELL
- ⊕ MARSH
- ⊕ F.F.E = 45.27'
- ⊕ FINISHED FLOOR ELEVATION
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- DYL DOUBLE YELLOW LINE
- DWL DASHED WHITE LINE
- SYL SINGLE YELLOW LINE
- LSA LANDSCAPED AREA
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
- SSE SLOPED GRANITE EDGE
- BB BITUMINOUS BERM
- BC BITUMINOUS CURB
- GR GUARD RAIL
- CL CHAIN LINK FENCE
- DL DRAINAGE LINE
- SL SEWER LINE
- OW OVERHEAD WIRE
- E UNDERGROUND ELECTRIC
- T TELEPHONE LINE
- G GAS LINE
- W WATER LINE
- SW STONE WALL
- TL TREE LINE
- 100BZ 100-FT BUFFER ZONE
- 100RA 100-FT RIVER FRONT AREA
- 200RA 200-FT RIVER FRONT AREA
- LMA LIMIT MEAN ANNUAL HIGH WATER
- EL 811-100
- WFI-100 VEGETATED WETLAND BOUNDARY



Devens
111 Hospital Road
Devens, Massachusetts

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1	ZONING & AQUIFER DISTRICTS ADDED	10/7/20	CDKR
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Designed by: _____ Checked by: _____
 Issued for: _____ Date: July 21, 2020

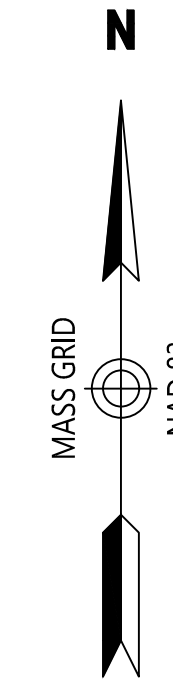
Existing Conditions
Plan of Land

Drawing Number: Sv-4
 Sheet 4 of 7
 Project Number: 14867.01

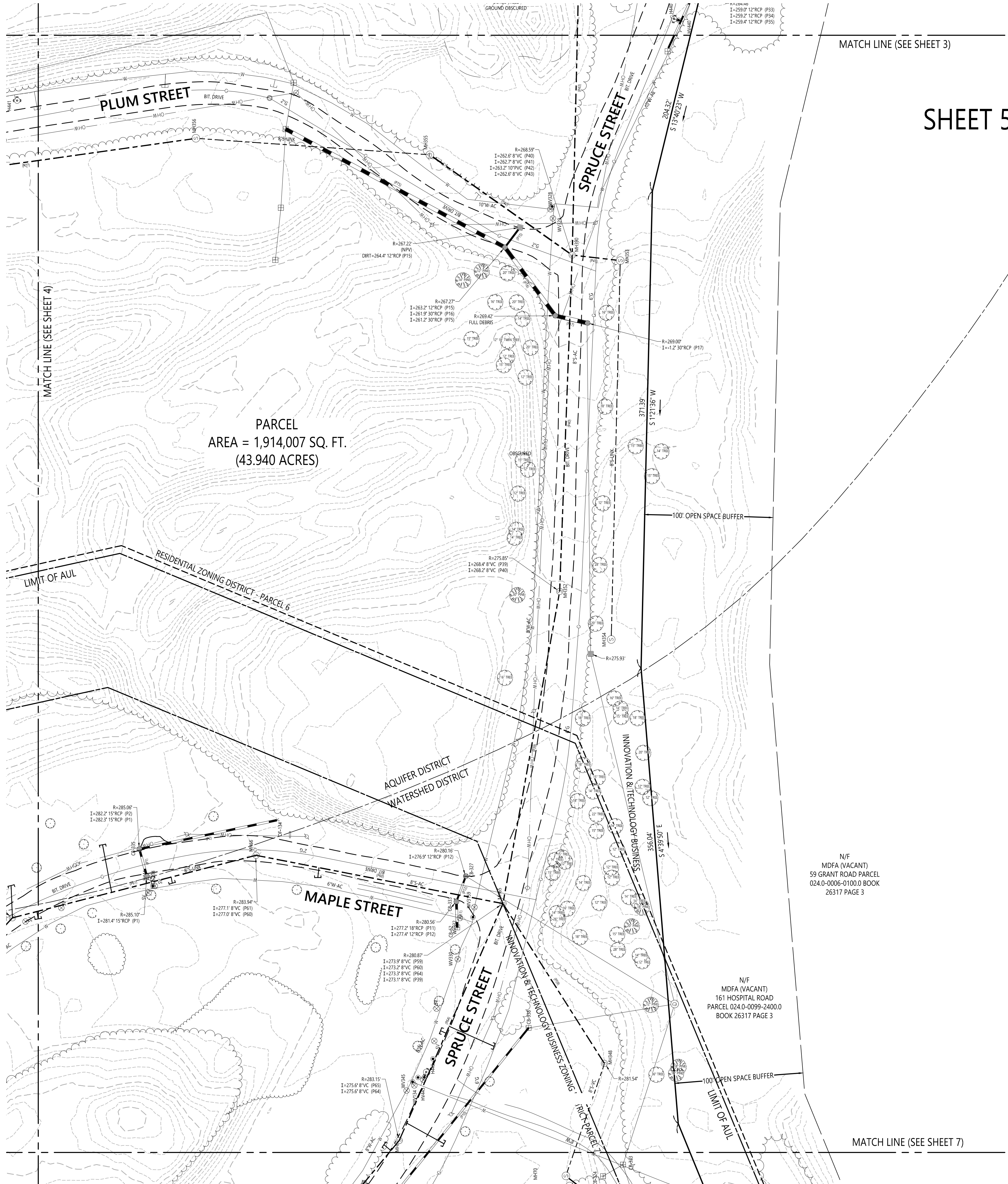




101 Walnut Street
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617.924.1770



SHEET 5



PARCEL
AREA = 1,914,007 SQ. FT.
(43.940 ACRES)

N/F
MDFA (VACANT)
59 GRANT ROAD PARCEL
024.0-0006-0100.0 BOOK
26317 PAGE 3

N/F
MDFA (VACANT)
161 HOSPITAL ROAD
PARCEL 024.0-0099-2400.0
BOOK 26317 PAGE 3

Legend

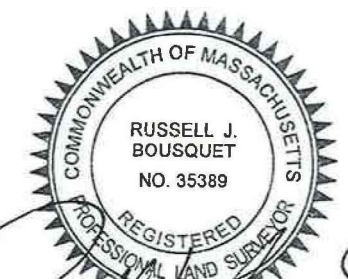
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- ⊕ CATCH BASIN
- ⊕ SEWER MANHOLE
- ⊕ ELECTRIC MANHOLE
- ⊕ TELEPHONE MANHOLE
- ⊕ MANHOLE
- ⊕ HAND HOLE
- ⊕ WATER GATE
- ⊕ FIRE HYDRANT
- ⊕ GAS GATE
- ⊕ BOLLARD w/LIGHT
- ⊕ STREET SIGN
- ⊕ LIGHT POLE
- ⊕ UTILITY POLE
- ⊕ GUY POLE
- ⊕ GUY WIRE
- ⊕ MONITORING WELL
- ⊕ FLOOD LIGHT
- ⊕ WELL
- ⊕ MARSH
- ⊕ F.F.E. = 45.27'
- FINISHED FLOOR ELEVATION
- CNO COULD NOT OPEN
- NPV NO PIPES VISIBLE
- DYL DOUBLE YELLOW LINE
- DWL DASHED WHITE LINE
- SYL SINGLE YELLOW LINE
- LSA LANDSCAPED AREA
- EOP EDGE OF PAVEMENT
- CC CONCRETE CURB
- VGC VERTICAL GRANITE CURB
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- 100BZ 100-FT BUFFER ZONE
- 100RA 100-FT RIVER FRONT AREA
- 200RA 200-FT RIVER FRONT AREA
- LMA LIMIT MEAN ANNUAL HIGH WATER
- LB LIMIT OF BANK
- WFT-100 VEGETATED WETLAND BOUNDARY

Devens 111 Hospital Road Devens, Massachusetts

No.	Revision	Date	App'd.
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2	TREE SURVEY ADDED	10/16/20	CDKR
3	REVISED BOUNDARY	10/20/20	CDKR

Designed by: _____ Checked by: _____
Issued for: _____ Date: July 21, 2020

Existing Conditions Plan of Land



Sv-5

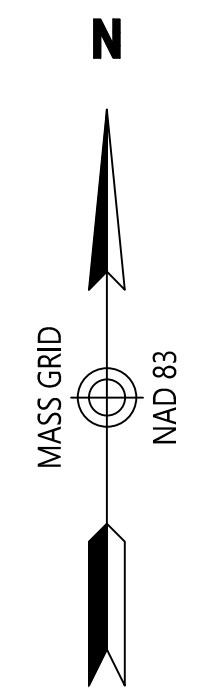
Sheet 5 of 7



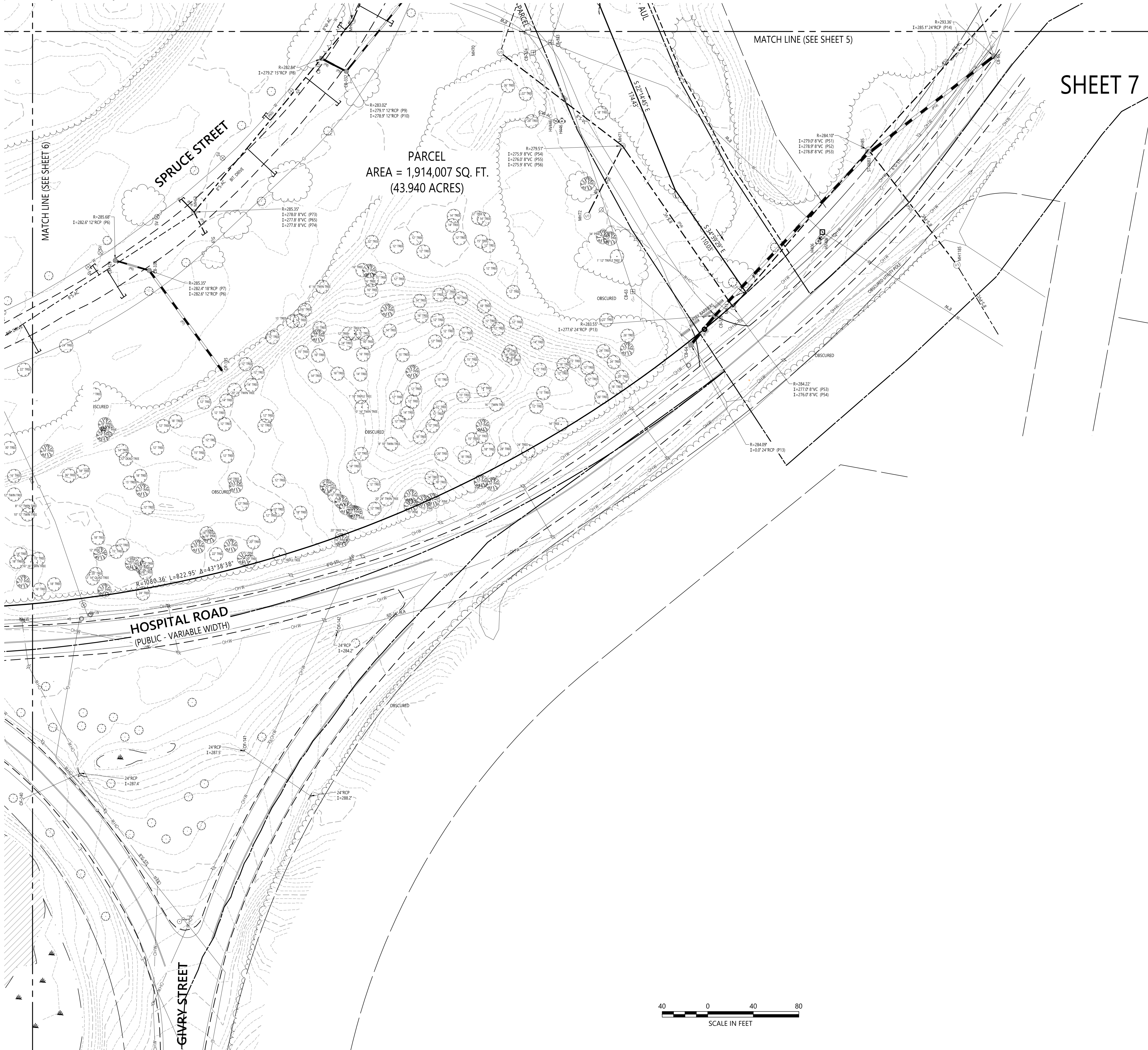
Project Number
14867.01



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770



SHEET 7



PARCEL
AREA = 1,914,007 SQ. FT.
(43.940 ACRES)

MATCH LINE (SEE SHEET 5)

MATCH LINE (SEE SHEET 6)

Legend

- ⊙ DRAIN MANHOLE
- ⊞ CATCH BASIN
- ⊙ SEWER MANHOLE
- ⊙ ELECTRIC MANHOLE
- ⊙ TELEPHONE MANHOLE
- ⊙ MANHOLE
- ⊙ HAND HOLE
- ⊙ WATER GATE
- ⊙ FIRE HYDRANT
- ⊙ GAS GATE
- ⊙ BOLLARD w/LIGHT
- ⊙ STREET SIGN
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- ⊙ GUY WIRE
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- ⊙ FLOOD LIGHT
- ⊙ WELL
- ⊙ MARSH
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- W WATER LINE
- STONE WALL
- TREE LINE
- 100BZ 100-FT BUFFER ZONE
- 100RA 100-FT RIVER FRONT AREA
- 200RA 200-FT RIVER FRONT AREA
- 2FT100 LIMIT MEAN ANNUAL HIGH WATER
- 8FT100 LIMIT OF BANK
- WFT100 VEGETATED WETLAND BOUNDARY

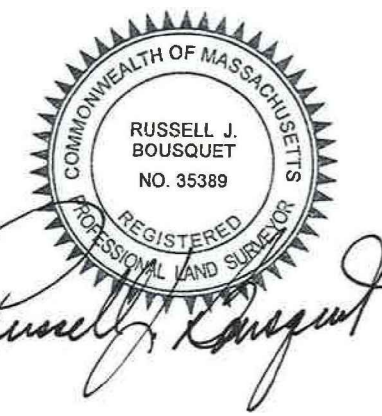
Devens

111 Hospital Road
Devens, Massachusetts

No.	Revision	Date	App'd.
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Designed by _____ Checked by _____
Issued for _____ Date July 21, 2020

Drawing Title
**Existing Conditions
Plan of Land**
Drawing Number

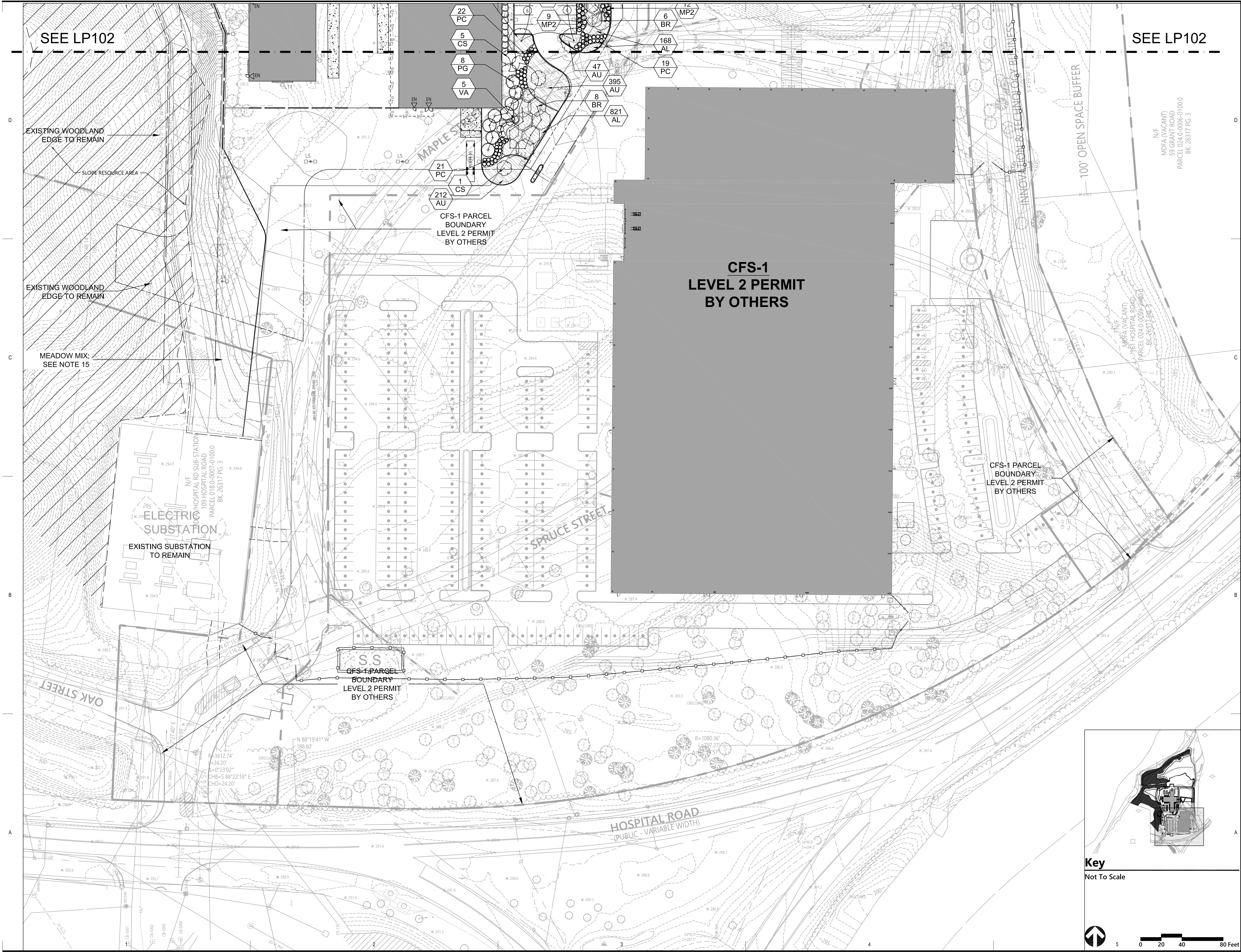


Sv-7

Sheet 7 of 7

Project Number
14867.01





SEE LP102

SEE LP102

**CFS-1
LEVEL 2 PERMIT
BY OTHERS**

CFS-1 PARCEL
BOUNDARY
LEVEL 2 PERMIT
BY OTHERS

CFS-1 PARCEL
BOUNDARY
LEVEL 2 PERMIT
BY OTHERS

**ELECTRIC
SUBSTATION**

EXISTING SUBSTATION
TO REMAIN

HOSPITAL ROAD
(PUBLIC - VARIABLE WIDTH)

CFS-1 PARCEL
BOUNDARY
LEVEL 2 PERMIT
BY OTHERS

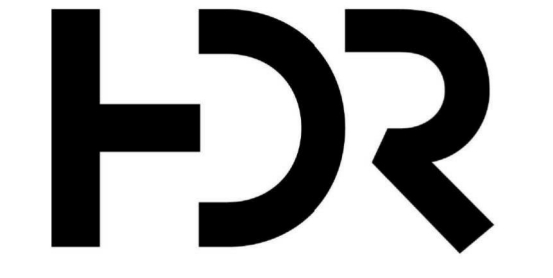
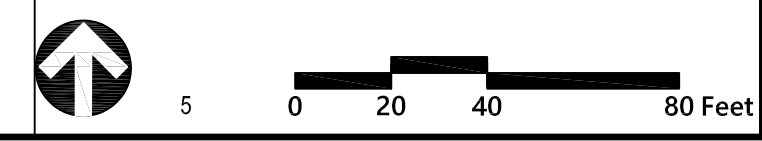
EXISTING WOODLAND
EDGE TO REMAIN

EXISTING WOODLAND
EDGE TO REMAIN

MEADOW MIX;
SEE NOTE 15



Key
Not To Scale



HDR Architecture, P.C.
1000 Lenox Drive
Lawrenceville, N.J. 08648



101 Walnut Street
PO Box 9151
Watertown, MA 02471

**Commonwealth Fusion
Systems Campus -
Building 1 and Building 2**

111 Hospital Rd.
Devens, MA

NOTES

Approved by:

Devens Enterprise Commission

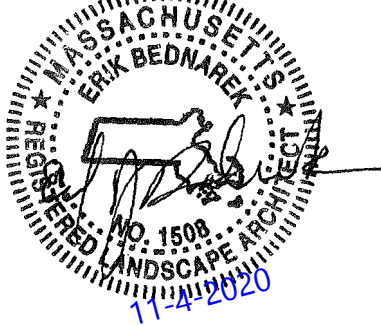
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1	11/05/2020	LEVEL TWO PERMIT

Project Number 10211243
Original Issue 11/05/2020 -

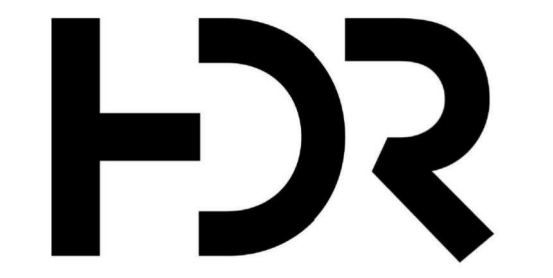
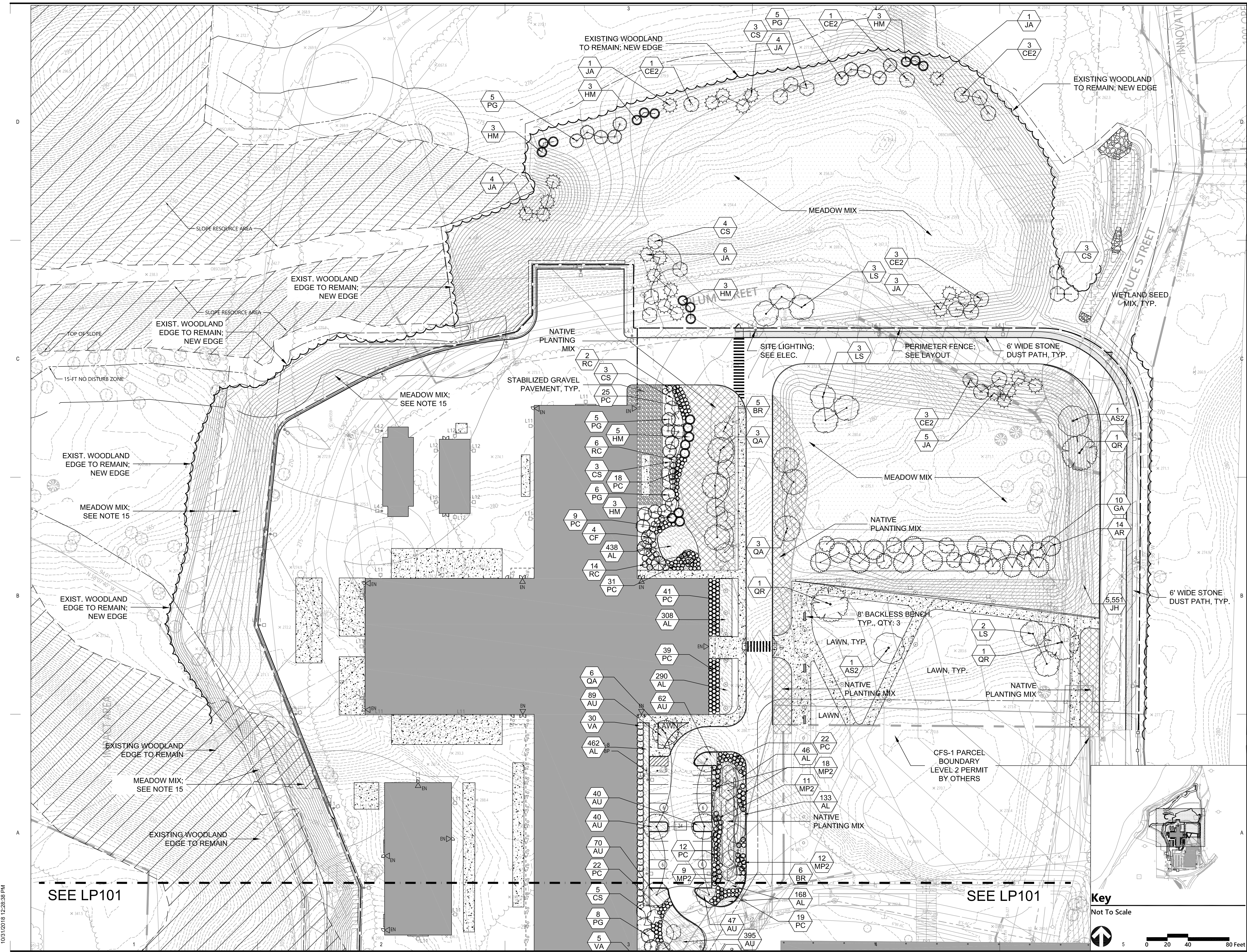
Sheet Name
**LANDSCAPE PLAN
ENLARGEMENT 1**

Sheet Number
LP101

Project Status
LEVEL 2 PERMIT



10/31/2018 12:28:38 PM



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101 Walnut Street
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Watertown, MA 02471

**Commonwealth Fusion
Systems Campus -
Building 1 and Building 2**

111 Hospital Rd.
Devens, MA

NOTES

Approved by: _____

Devens Enterprise Commission

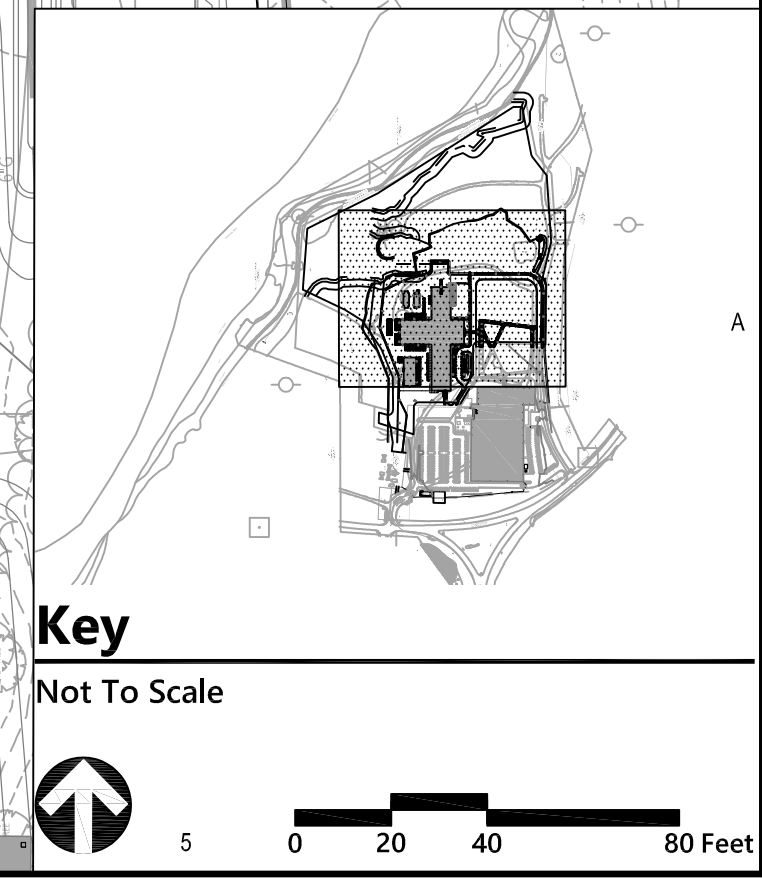
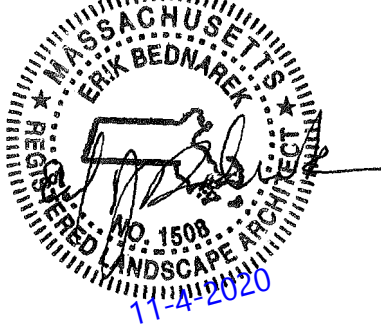
MARK	DATE	DESCRIPTION
1	11/05/2020	LEVEL TWO PERMIT

Project Number 10211243
Original Issue 11/05/2020 -

Sheet Name
**LANDSCAPE PLAN
ENLARGEMENT 2**

Sheet Number
LP102

Project Status
LEVEL 2 PERMIT



10/31/2018 12:28:38 PM

NOTES

Approved by:

Devens Enterprise Commission

MARK	DATE	DESCRIPTION
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Project Number	10211243
Original Issue	11/05/2020 -

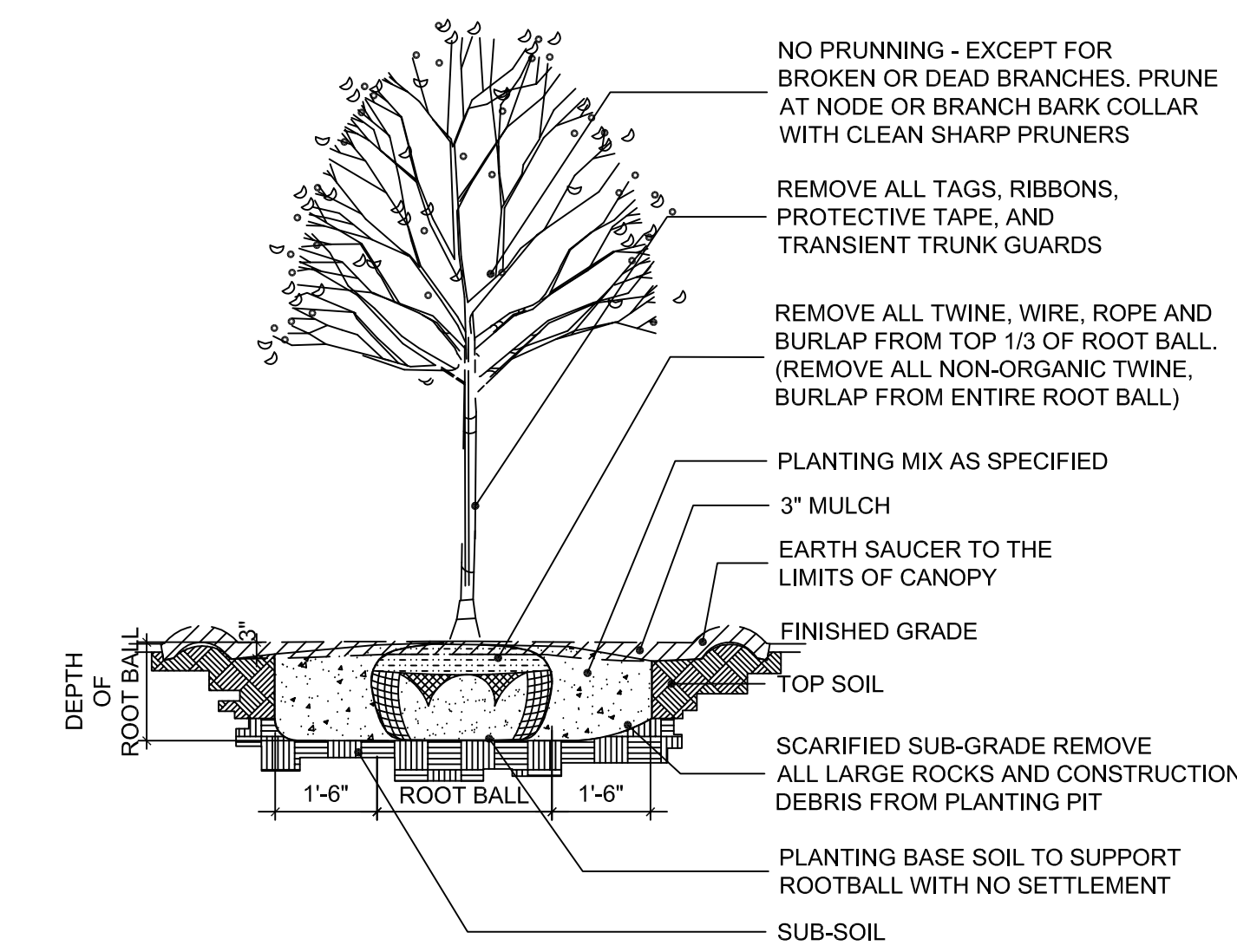
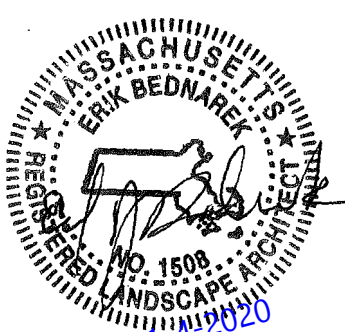
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**LANDSCAPE
DETAILS**

Sheet Number

LP501

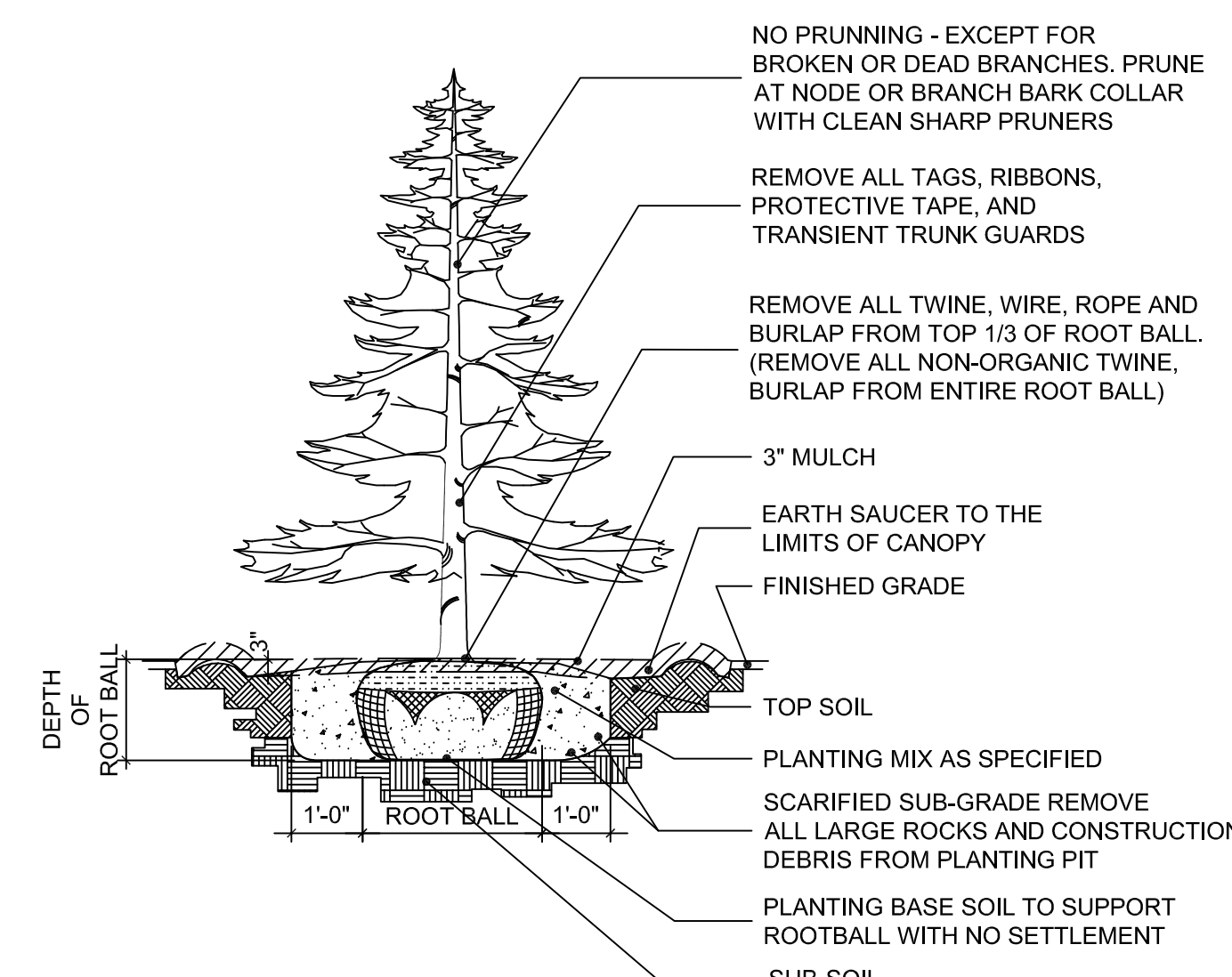
Project Status
LEVEL 2 PERMIT



- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. STAKING IS NOT REQUIRED UNLESS PROPER VERTICAL ALIGNMENT OF PLANT CANNOT BE MAINTAIN DUE TO WINDY CONDITIONS, OR IF PLANTING ON A STEEP SLOPE STAKING MAY BE REQUIRED. SEE DETAIL.

1 SHADE TREE PLANTING

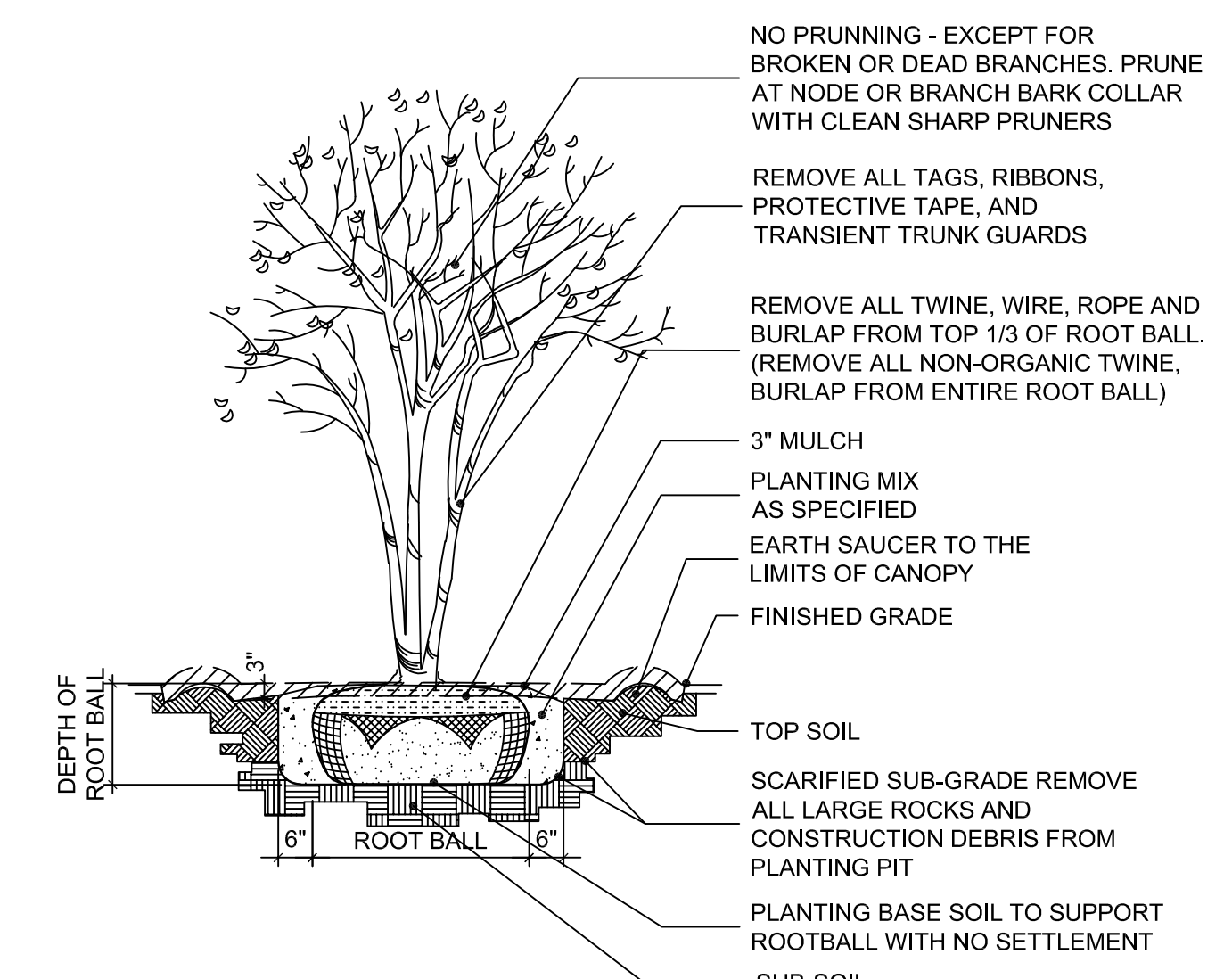
SCALE: NTS



- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. STAKING IS NOT REQUIRED UNLESS PROPER VERTICAL ALIGNMENT OF PLANT CANNOT BE MAINTAIN DUE TO WINDY CONDITIONS, OR IF PLANTING ON A STEEP SLOPE STAKING MAY BE REQUIRED. SEE DETAIL.

2 EVERGREEN TREE PLANTING

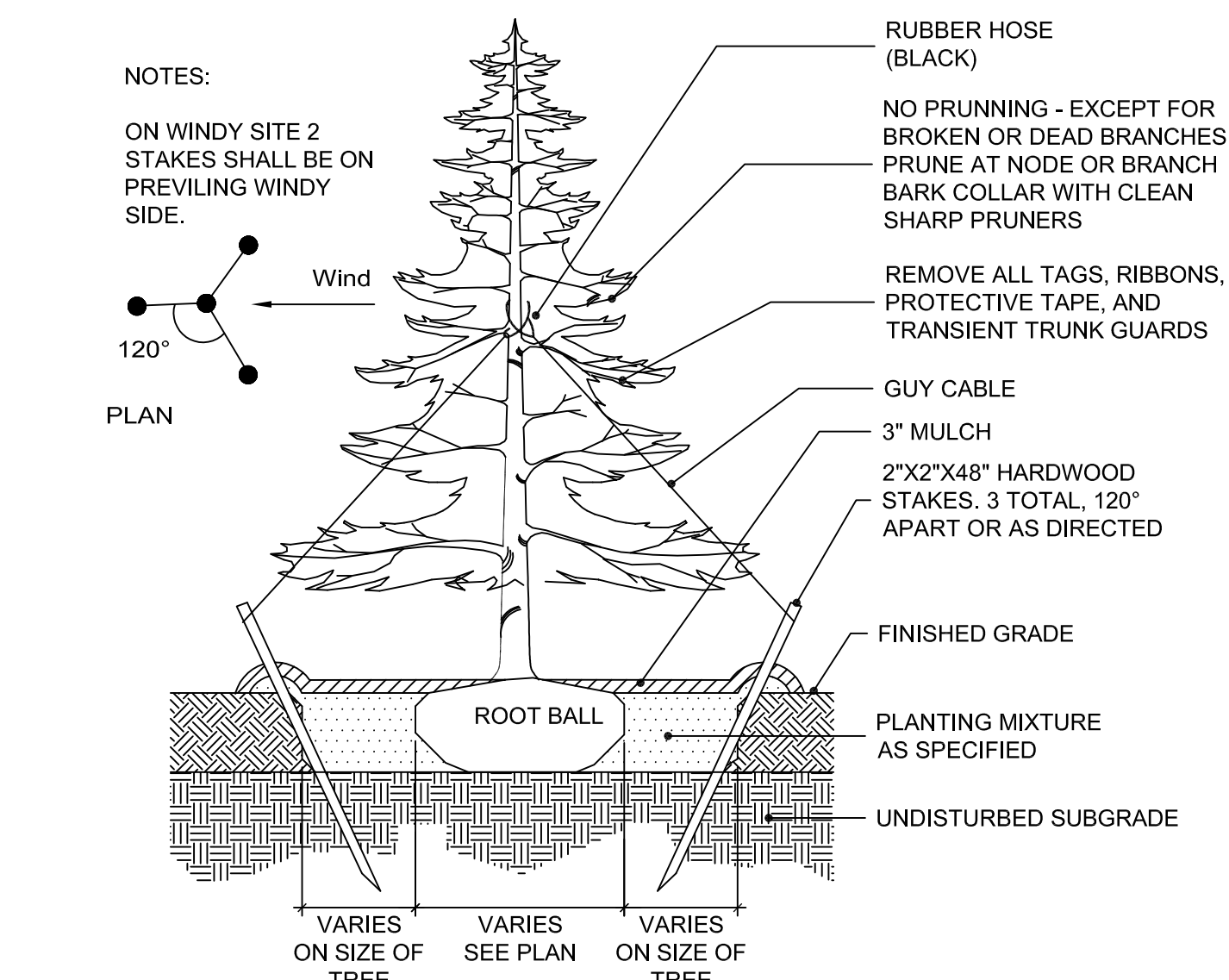
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- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. STAKING IS NOT REQUIRED UNLESS PROPER VERTICAL ALIGNMENT OF PLANT CANNOT BE MAINTAIN DUE TO WINDY CONDITIONS, OR IF PLANTING ON A STEEP SLOPE STAKING MAY BE REQUIRED. SEE DETAIL.

3 ORNAMENTAL TREE PLANTING

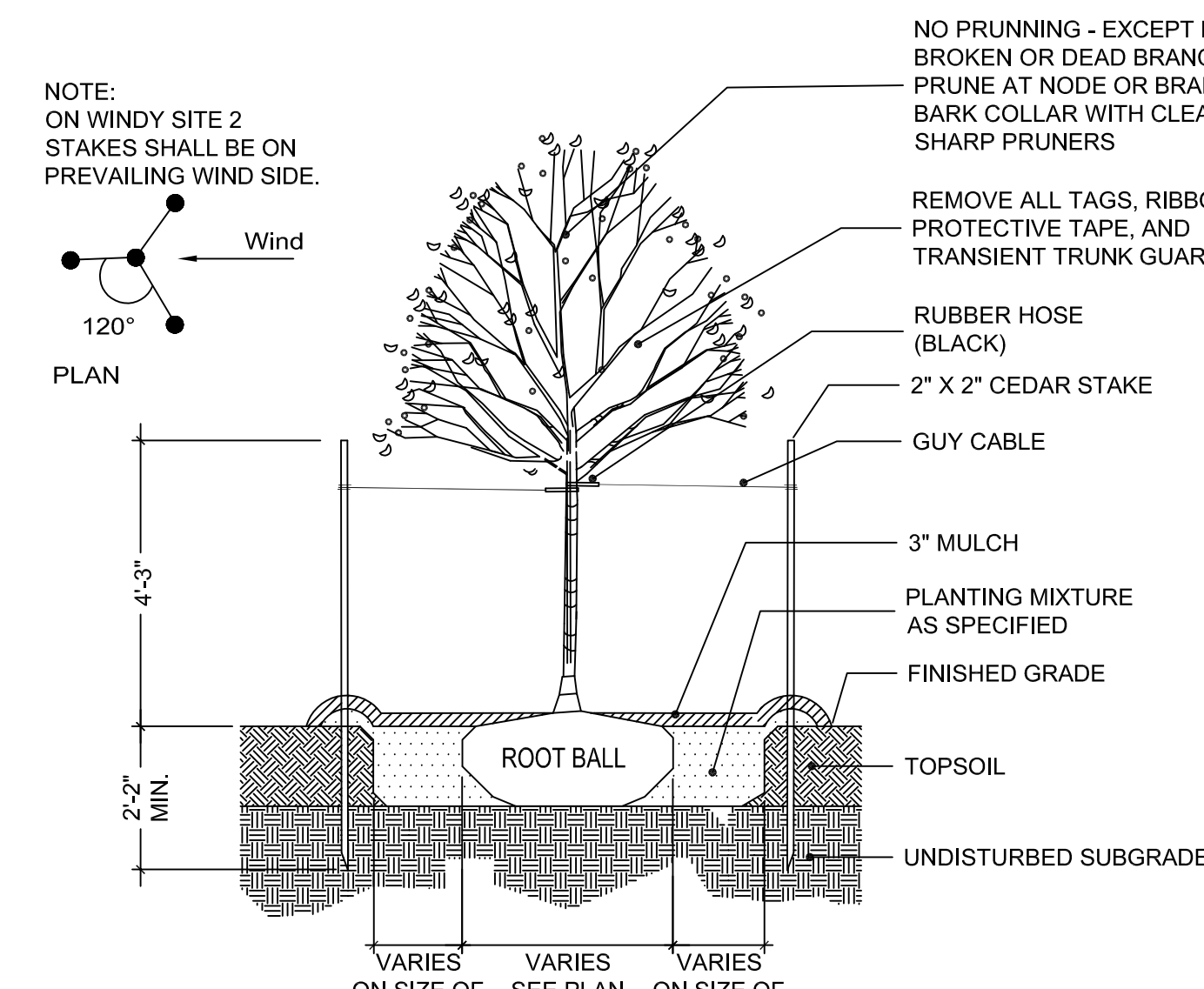
SCALE: NTS



- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. SEE RELATED PLANTING DETAILS PER TREE SIZE FOR ALL OTHER RELATED DETAILS AND DEPTHS FOR TREE PLANTING.

4 EVERGREEN TREE STAKING

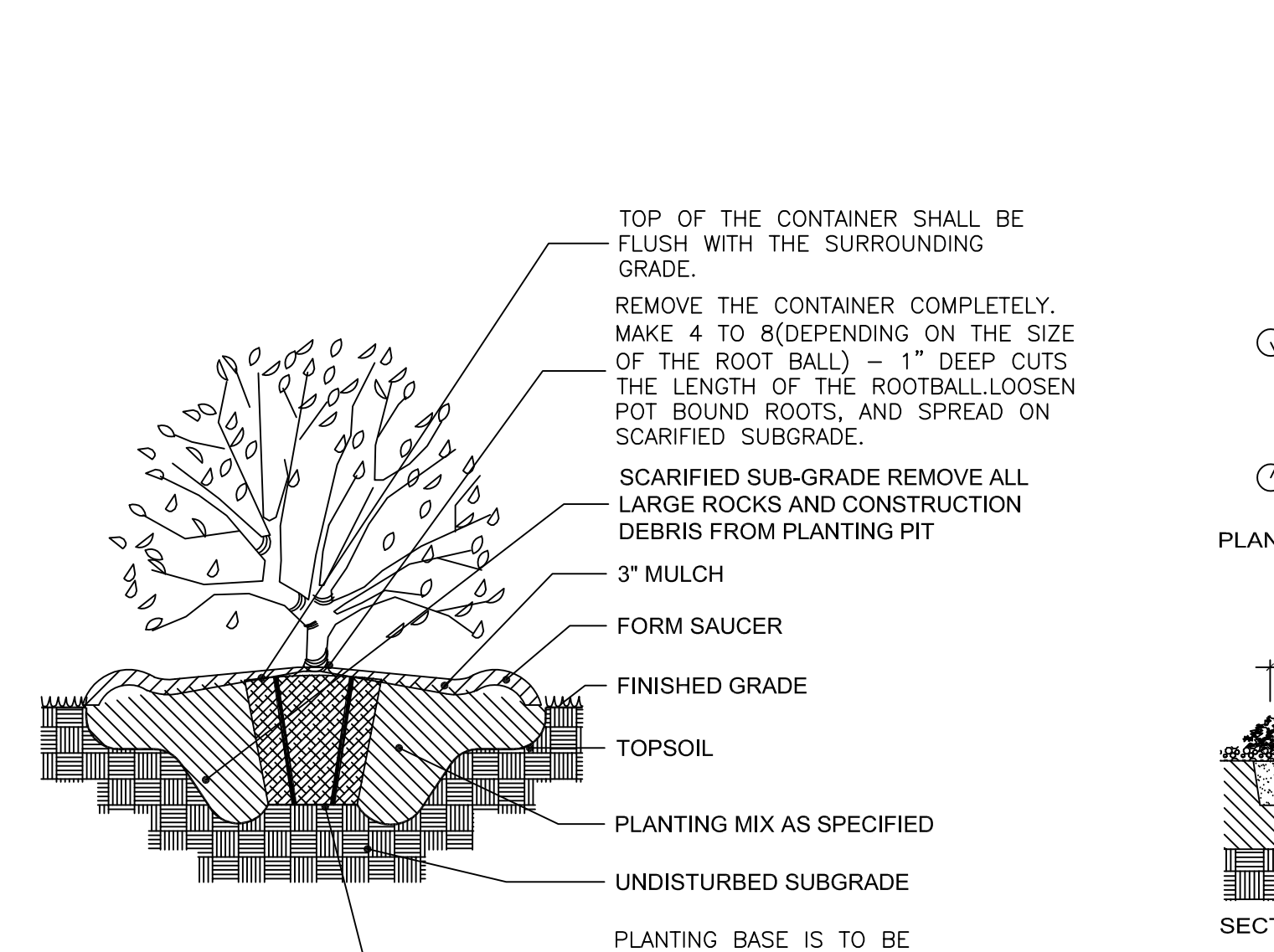
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- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. SEE RELATED PLANTING DETAILS PER TREE SIZE FOR ALL OTHER RELATED DETAILS AND DEPTHS FOR TREE PLANTING.

5 SHADE TREE STAKING

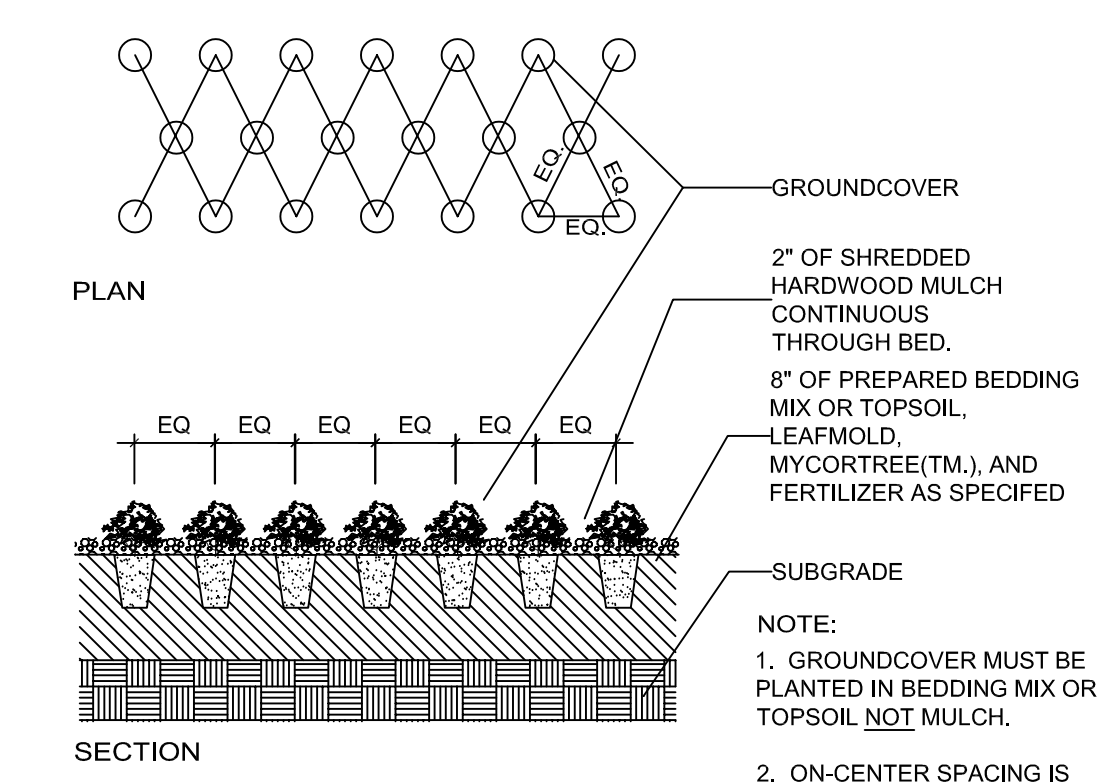
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- NOTES:
1. NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT.
 2. REMOVE ALL ROPE FROM TRUNK & TOP OF ROOT BALL. FOLD BURLAP BACK BELOW GRADE.
 3. SEE RELATED PLANTING DETAILS PER TREE SIZE FOR ALL OTHER RELATED DETAILS AND DEPTHS FOR TREE PLANTING.

5 SHRUB PLANTING

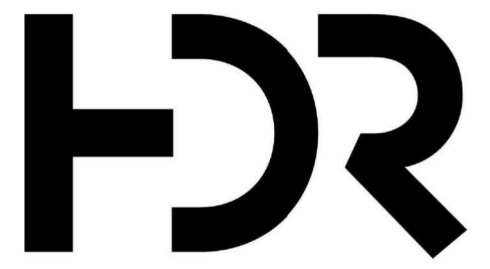
SCALE: NTS



- NOTE:
1. GROUNDCOVER MUST BE PLANTED IN BEDDING MIX OR TOPSOIL NOT MULCH.
 2. ON-CENTER SPACING IS INDICATED ON PLANT LIST.

6 GROUNDCOVER PLANTING

SCALE: NTS



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Commonwealth Fusion Systems Campus - Building 1 and Building 2

111 Hospital Rd.
Devens, MA

NOTES

Approved by:

Devens Enterprise Commission

MARK DATE DESCRIPTION

1 11/05/2020 LEVEL TWO PERMIT

Project Number 10211243
Original Issue 11/05/2020 -

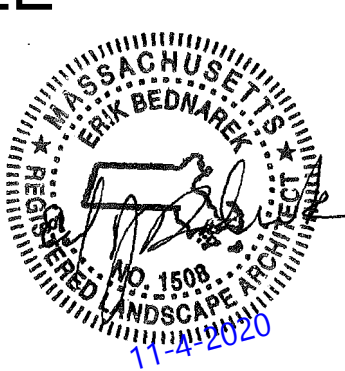
Sheet Name

LANDSCAPE SCHEDULE

Sheet Number

LP502

Project Status
LEVEL 2 PERMIT



2020-11-03 12:40

PLANT SCHEDULE								
TREES	QTY	BOTANICAL / COMMON NAME	CAL	CONT.	HEIGHT	REMARKS	REMARKS	
AR	14	Acer rubrum / Red Maple	3 1/2" - 4"					
AS2	2	Acer saccharum / Sugar Maple	3 1/2" - 4"					
BR	19	Betula nigra / River Birch	3 1/2" - 4"					
GA	10	Ginkgo biloba 'Autumn Gold' TM / Autumn Gold Maidenhair Tree	3 1/2" - 4"					
LS	8	Liquidambar styraciflua / American Sweet Gum	3 1/2" - 4"	B & B	12' HT	Single Stem with Central Leader		
QA	12	Quercus alba / White Oak	3 1/2" - 4"	B & B	12' HT	Single Stem with Central Leader		
QR	3	Quercus rubra / Red Oak	6" CAL					
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	CAL	CONT.	HEIGHT	REMARKS	REMARKS	
JA	24	Juniperus virginiana 'Greenbelt' / Greenbelt Eastern Red Cedar	--		8'-10'			
PG	29	Picea glauca / White Spruce	--		8'-10'			
FLOWERING TREES	QTY	BOTANICAL / COMMON NAME	CAL	CONT.	HEIGHT	REMARKS	REMARKS	
CE2	11	Cercis canadensis / Eastern Redbud Multi-trunk	2 1/2" - 3"	B & B	8' HT	Multi-stem		
CS	22	Chionanthus virginicus 'Spring Fleecing' / White Fringetree	2 1/2" - 3"		8'-10'			
CF	4	Cornus florida / Eastern Dogwood	2 1/2" - 3"	B & B	8' HT			
HM	20	Hamamelis virginiana 'Mohonk Red' / Mohonk Red Witch Hazel	2 1/2" - 3"	B & B	8'-10'			
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	HEIGHT	REMARKS	REMARKS	
MP2	50	Myrica pensylvanica / Northern Bayberry	5 GAL					
PC	259	Panicum virgatum 'Cheyenne Sky' / Switch Grass	2 GAL.					
RC	22	Rhododendron carolinianum / Carolina Rhododendron	5 GAL					
VA	35	Viburnum dentatum / Viburnum	5 GAL					
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	HEIGHT	REMARKS	SPACING	REMARKS
AU	955	Arctostaphylos uva-ursi / Kinnikinnick	1 GAL	1 GAL			24" o.c.	
AL	2,666	Aronia melanocarpa 'UCONNAM165' TM / Low Scape Mound Black Chokeberry	1 GAL				18" o.c.	
JH	5,551	Juniperus horizontalis / Creeping Juniper	1 GAL				18" o.c.	

SEED MIXES:

SEED MIX	AREA	
NATIVE PLANTING MIX Native Grasses and Perennials; Container	18,100	SF
MEADOW MIX Native Seed Mix	223,100	SF
WETLAND SEED MIX New England Wetmix (NE Wetland Plants)	3,200	SF

SPECIFICATIONS

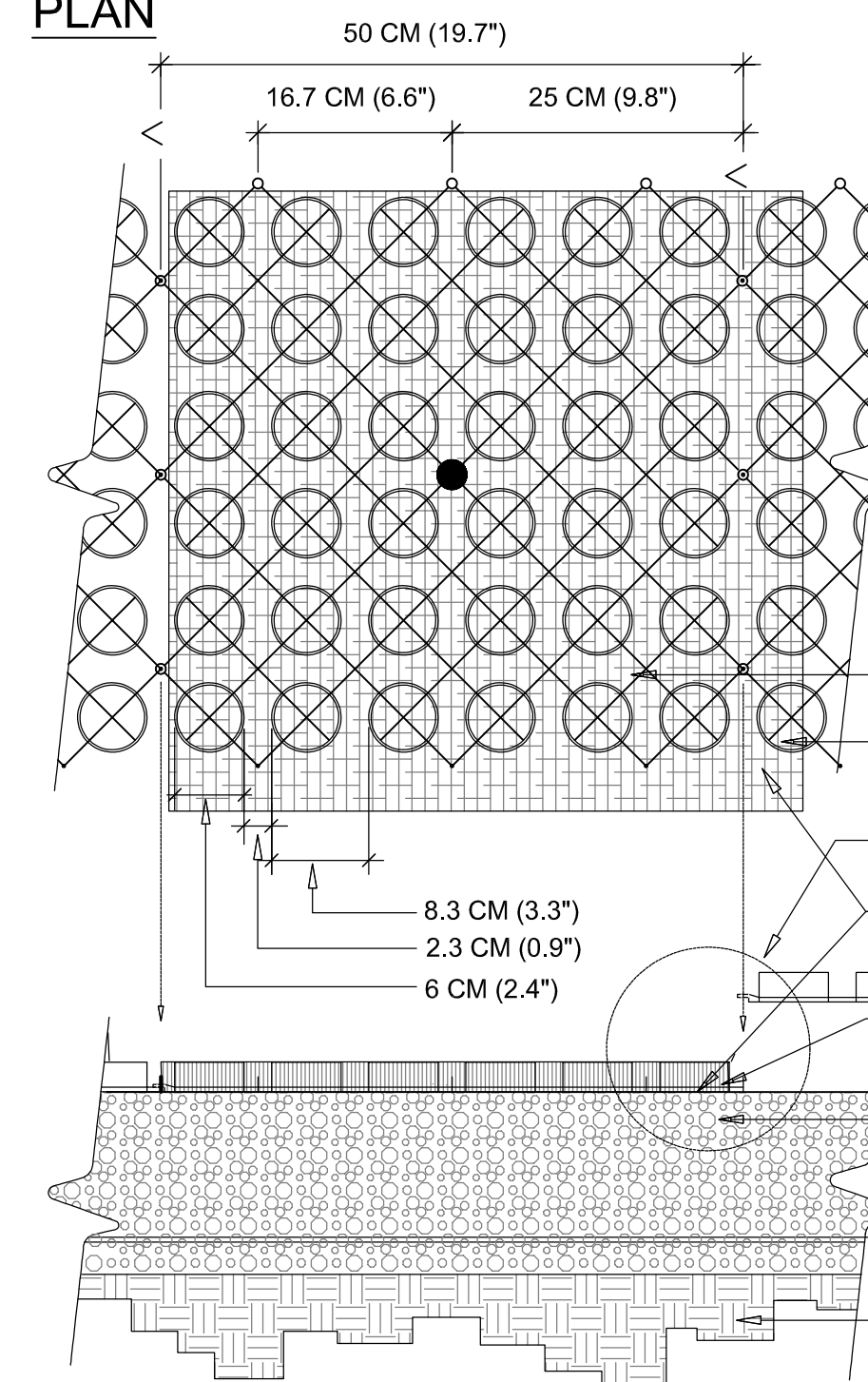
UNITS
UNIT SIZE - 50 CM X 50 CM X 2.5 CM
OR 1 M X 1 X 2.5 CM
(20" X 20" X 1" OR 40" X 40" X 1")

UNIT WEIGHT - 538 GRAMS (19 OZ.) OR 2.2
KG (4.8 POUNDS)

STRENGTH - 1121 KG/CM (15,940 PSI)
COLOR - BLACK (STANDARD)
RESIN - 100% POST-CONSUMER RECYCLED HDPE

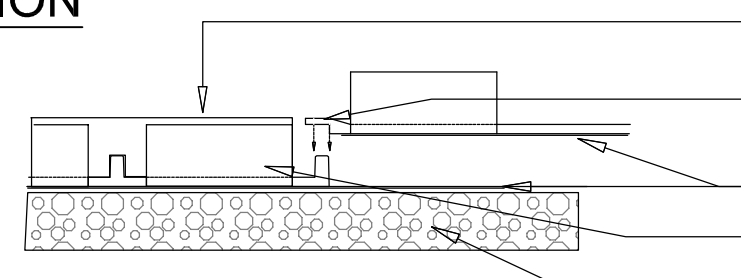
FABRIC WEIGHT - 1.4 TO 1.7 OZ/SY(47-58 GMM)
TENSILE - 120 LB/FT (585 KG/M) FLOW - 275
GAL/MIN/SF (11,200 L/MIN/M)

PLAN



- GRAVELPAVE2
- ADJACENT GRAVELPAVE2
- SEE ENLARGEMENT BELOW
- FILTER FABRIC ATTACHED TO
BOTTOM OF GRAVELPAVE2
- GRAVELPAVE2 FILLED WITH 3/16" TO 3/8" ANGULAR
GRAVEL, UNIFORM SIZE, WASHED
- COMPACTED SANDY GRAVEL ROAD BASE
- 95% MODIFIED PROCTOR DENSITY
- SEE FULL TECHNICAL SPECIFICATIONS FOR
COMPOSITION
- COMPACTED SUBGRADE

SECTION



- TOP OF GRAVEL
- GRAVELPAVE2 ATTACH WITH
SNAP FIT FASTENERS
- FILTER FABRIC - OVERLAPPING JOINTS
- FILL RING SECTION WITH 3/16" TO 3/8"
ANGULAR GRAVEL, UNIFORM SIZE, WASHED
- COMPACTED SANDY GRAVEL
BASE COURSE

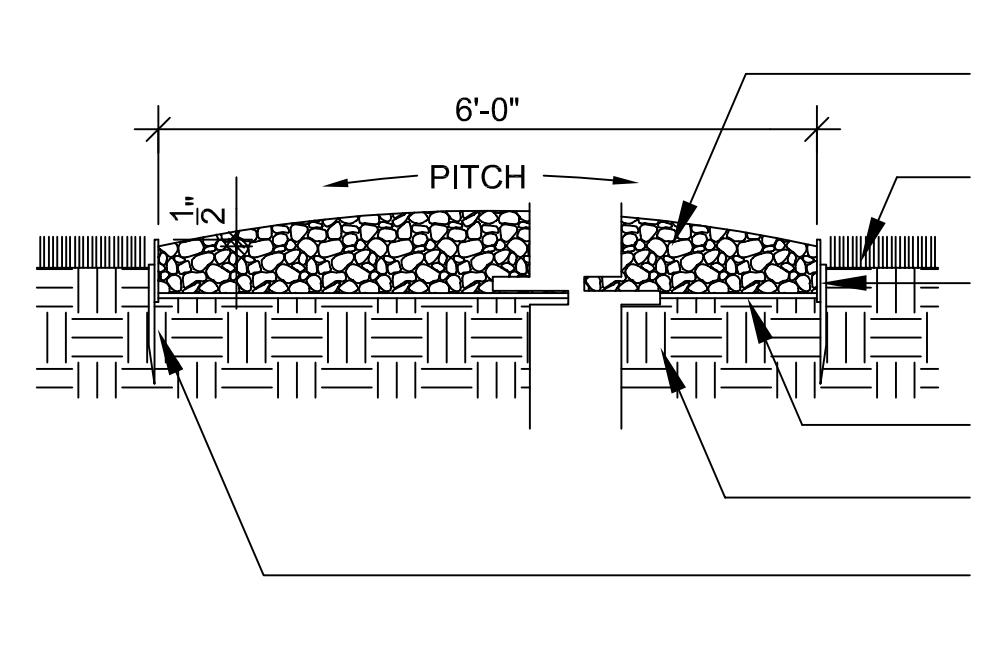
ENLARGEMENT

1 STABILIZED GRAVEL PAVEMENT

SCALE: NTS

2 STONE DUST PATH - TYPICAL SECTION

SCALE: NTS



- 4" DEPTH COMPACTED
DECOMPOSED GRANITE
TRAIL
- FINISH GRADE
- 4" X 3/16" THICK STEEL
EDGING
- BLACK WEED BARRIER
- COMPACTED SUBGRADE
- SEE PLANS FOR METHOD
CONTAINMENT; CURB AT
SOME LOCATIONS

NOTES

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Devens Enterprise Commission

MARK DATE DESCRIPTION

MARK	DATE	DESCRIPTION
1	11/05/2020	LEVEL TWO PERMIT

Project Number 10211243
Original Issue 11/05/2020 -

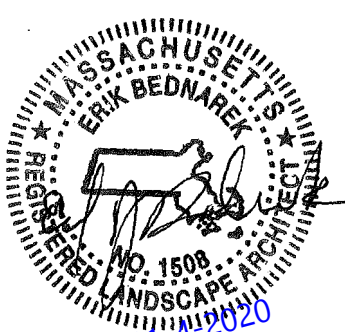
Sheet Name

**LANDSCAPE
DETAILS**

Sheet Number

LP510

Project Status
LEVEL 2 PERMIT



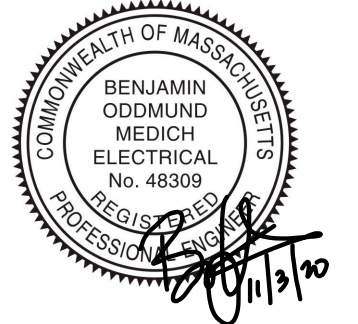


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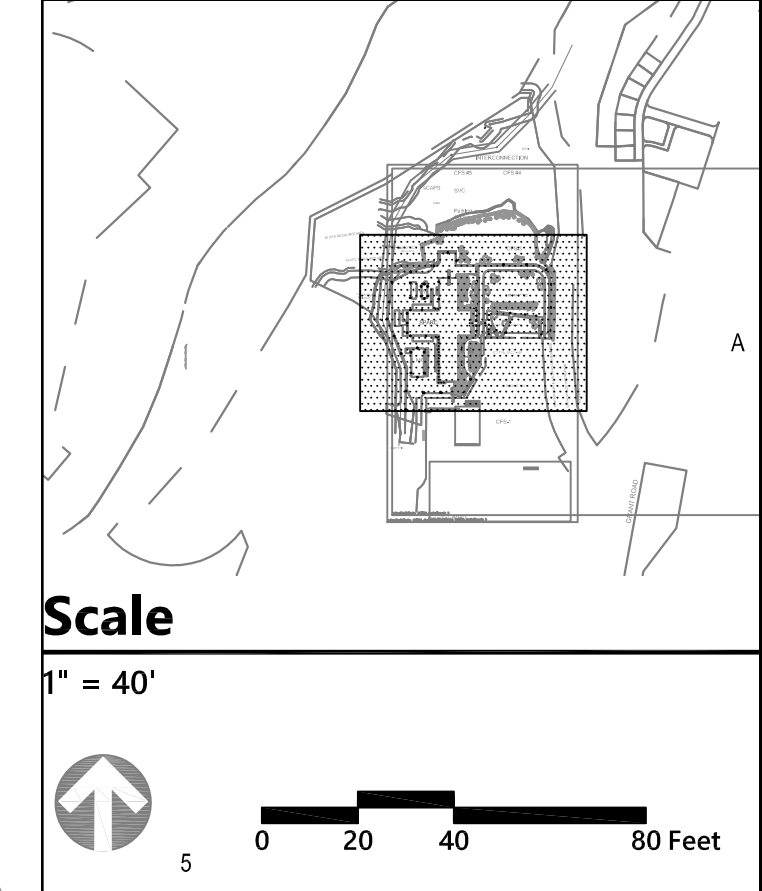
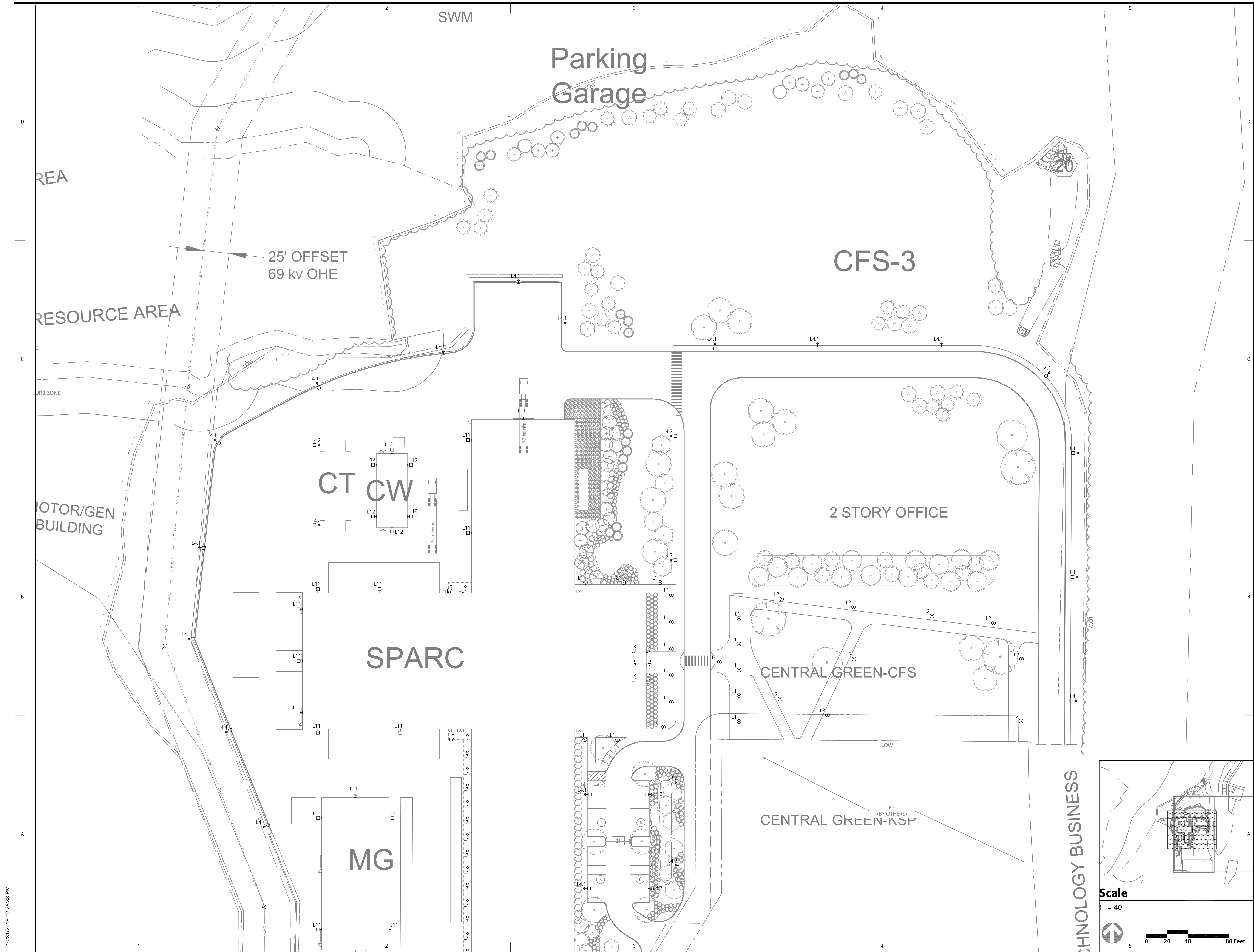
Sheet Name

ELECTRIC SITE LIGHTING PLAN

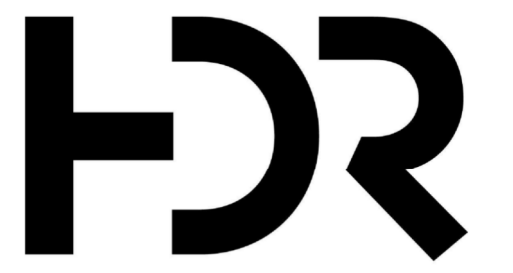
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ES102

Project Status
LEVEL 2 PERMIT



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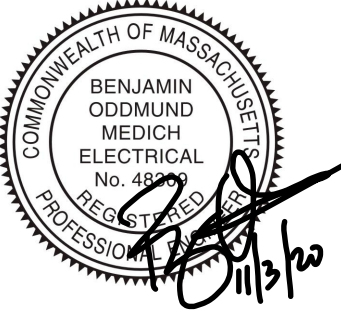


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MARK	DATE	DESCRIPTION
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1	11/05/2020	LEVEL TWO PERMIT
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Project Number 10211243
Original Issue 11/05/2020 -

Sheet Name

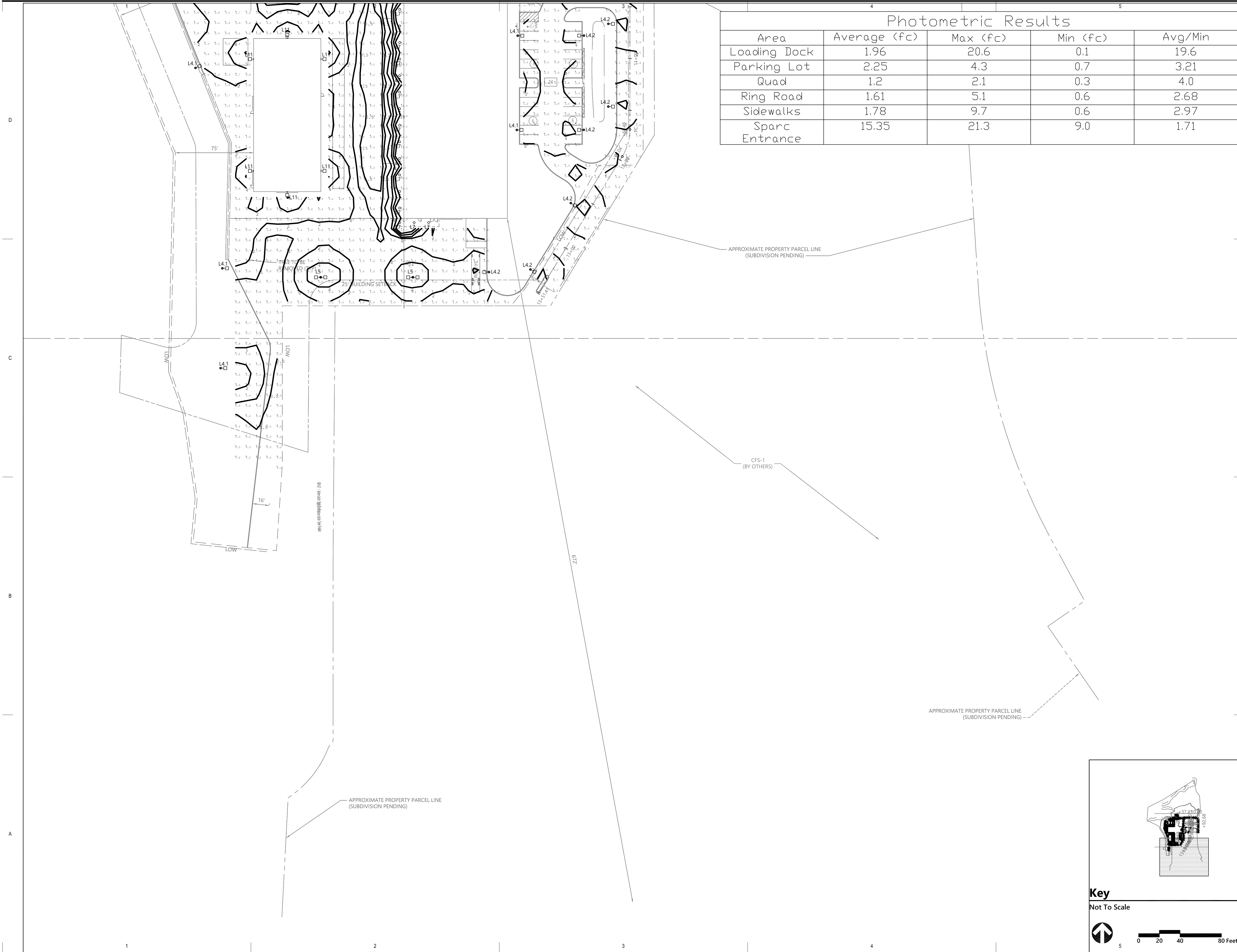
ELECTRIC SITE LIGHTING PHOTOMETRIC PLAN

Sheet Number

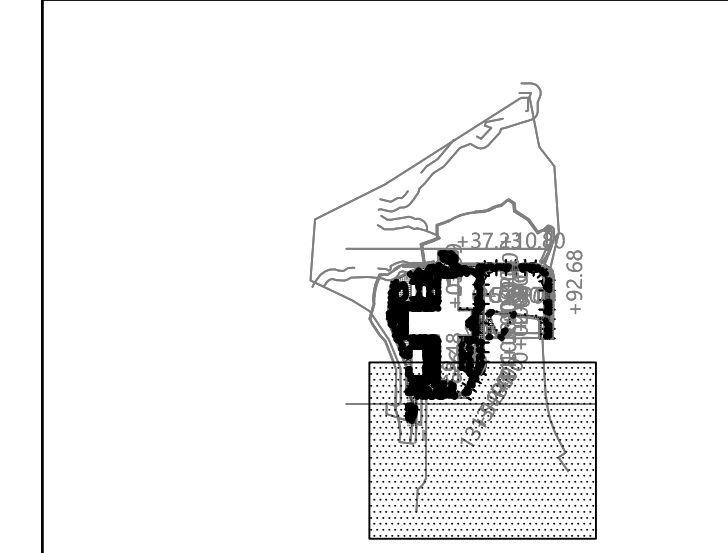
ES201

Project Status
LEVEL 2 PERMIT

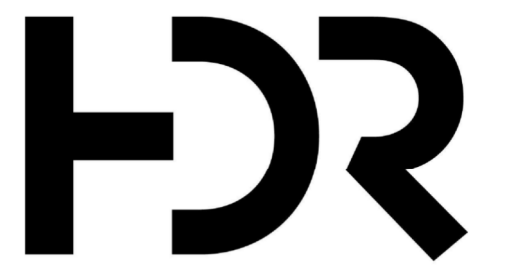
Area	Average (fc)	Max (fc)	Min (fc)	Avg/Min
Loading Dock	1.96	20.6	0.1	19.6
Parking Lot	2.25	4.3	0.7	3.21
Quad	1.2	2.1	0.3	4.0
Ring Road	1.61	5.1	0.6	2.68
Sidewalks	1.78	9.7	0.6	2.97
Sparc Entrance	15.35	21.3	9.0	1.71



Key
Not To Scale



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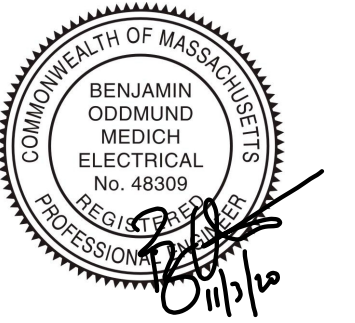


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Sheet Name

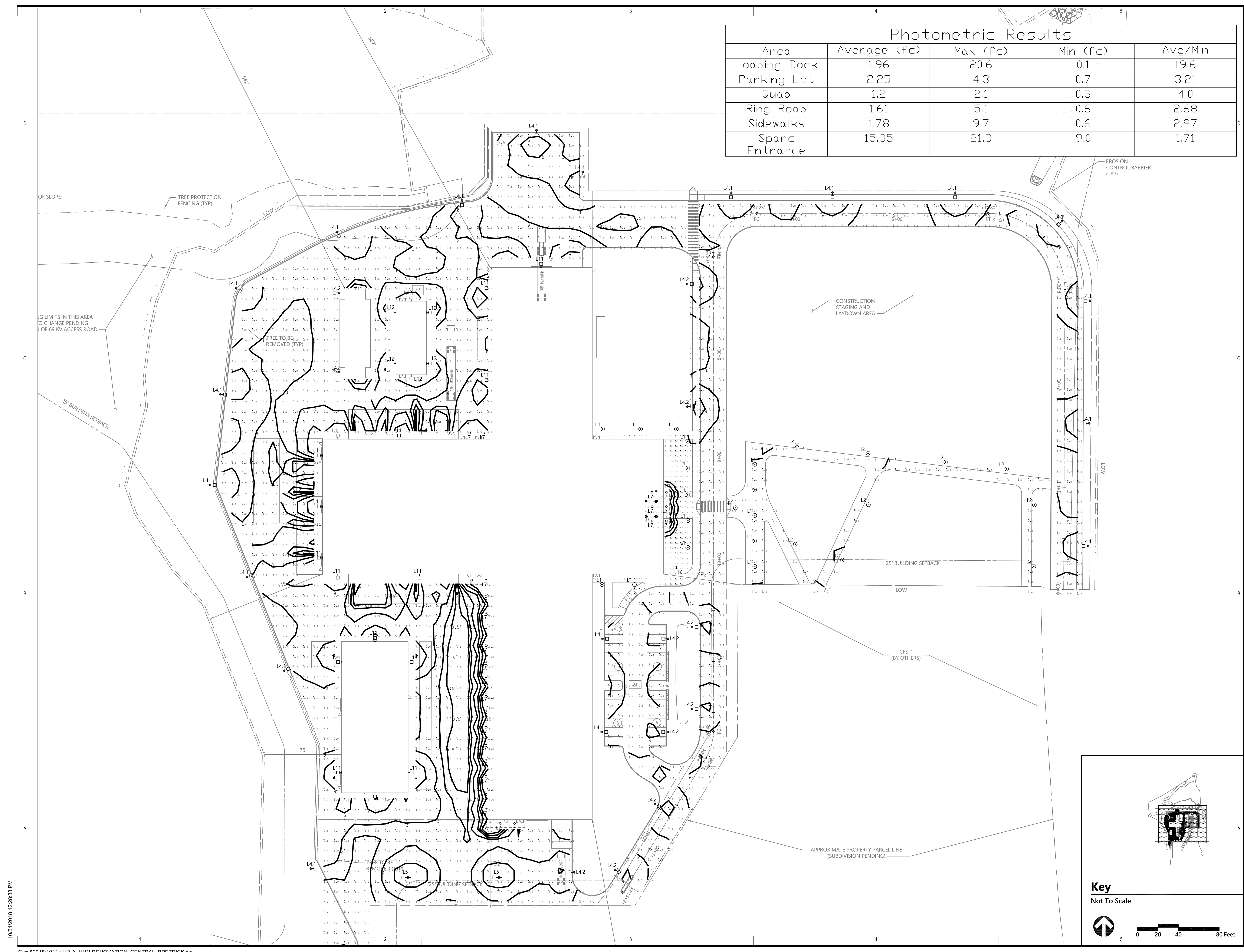
**ELECTRIC SITE
LIGHTING
PHOTOMETRIC PLAN**

Sheet Number

ES202

Project Status
LEVEL 2 PERMIT

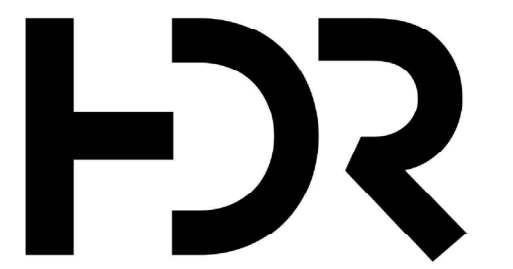
Area	Average (fc)	Max (fc)	Min (fc)	Avg/Min
Loading Dock	1.96	20.6	0.1	19.6
Parking Lot	2.25	4.3	0.7	3.21
Quad	1.2	2.1	0.3	4.0
Ring Road	1.61	5.1	0.6	2.68
Sidewalks	1.78	9.7	0.6	2.97
Spurc Entrance	15.35	21.3	9.0	1.71



Key
Not To Scale

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LIGHTING FIXTURE SCHEDULE								
MARK	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMP TYPE	LAMP WATTAGE	DRIVER TYPE	VOLTAGE	NOTES
L1	ARCHITECTURAL POST MOUNT FIXTURE WITH ROUND TOP, ACRYLIC LENS FOR GLARE CONTROL, AND SYMMETRIC LIGHT DISTRIBUTION.	INVUE	LXS-VA-1-730-U-SYM-S-GM	3000K, 2300lm LED	28 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 15' POLE
L2	ARCHITECTURAL POST MOUNT FIXTURE WITH ROUND TOP, ACRYLIC LENS FOR GLARE CONTROL, AND ASYMMETRIC LIGHT DISTRIBUTION.	INVUE	LXS-VA-1-730-U-ASW-C-GM	3000K, 2300lm LED	28 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 15' POLE
L4	POLE MOUNTED SINGLE HEAD AREA LIGHT WITH ROUND HOUSING AND TYPE 3 LIGHT DISTRIBUTION.	NLS	VSR-S-T3-32L-1-30K-UNV-DP6-GPH	3000K, 10812lm LED	106 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 25' POLE
L4.1	POLE MOUNTED SINGLE HEAD AREA LIGHT WITH ROUND HOUSING AND TYPE 3 LIGHT DISTRIBUTION AND HOUSE SIDE SHIELD.	NLS	VSR-S-T3-32L-7-30K-UNV-DP6-GPH-HSS	3000K, 4118lm LED	71 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 25' POLE
L4.2	POLE MOUNTED SINGLE HEAD AREA LIGHT WITH ROUND HOUSING AND TYPE 5 LIGHT DISTRIBUTION.	NLS	VSR-S-T5-32L-1-30K-UNV-DP6-GPH	3000K, 11130lm LED	106 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 25' POLE
L5	POLE MOUNTED DOUBLE HEAD AREA LIGHT WITH ROUND HOUSING AND TYPE 3 LIGHT DISTRIBUTION AND HOUSE SIDE SHIELD.	NLS	(2) VSR-S-T3-32L-1-30K-UNV-DP6-GPH	(2) 3000K, 10812lm LED	(2) 106 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE ON 25' POLE
L7	SURFACE MOUNTED CYLINDER LIGHT FIXTURE WITH NOMINAL 6" APERTURE AND WHITE FINISH.	LITHONIA	LDN6CYL-30/30-LOGAR-LS	3000K, 3138lm LED	35 W	INTEGRAL LED DRIVER	120-277 V	
L11	LED FULL CUTOFF WALL PACK WITH DIE CAST ALUMINUM HOUSING AND TYPE 3 DISTRIBUTION.	NLS	NV-W-T3-32L-7-30K-UNV-WM-GPH	3000K, 9100lm LED	71 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE AT 20' ABOVE GRADE
L12	LED FULL CUTOFF WALL PACK WITH DIE CAST ALUMINUM HOUSING AND TYPE 3 DISTRIBUTION.	NLS	NV-W-T3-16L-7-30K-UNV-WM-GPH	3000K, 4432lm LED	37 W	INTEGRAL LED DRIVER	120-277 V	MOUNT FIXTURE AT 12' ABOVE GRADE



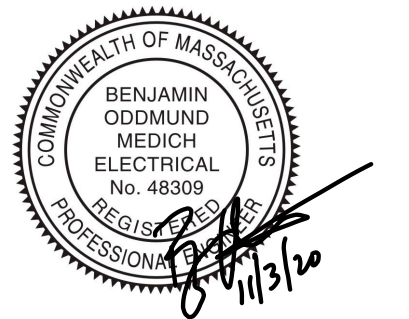
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Project Number 10211243
Original Issue 11/05/2020 -

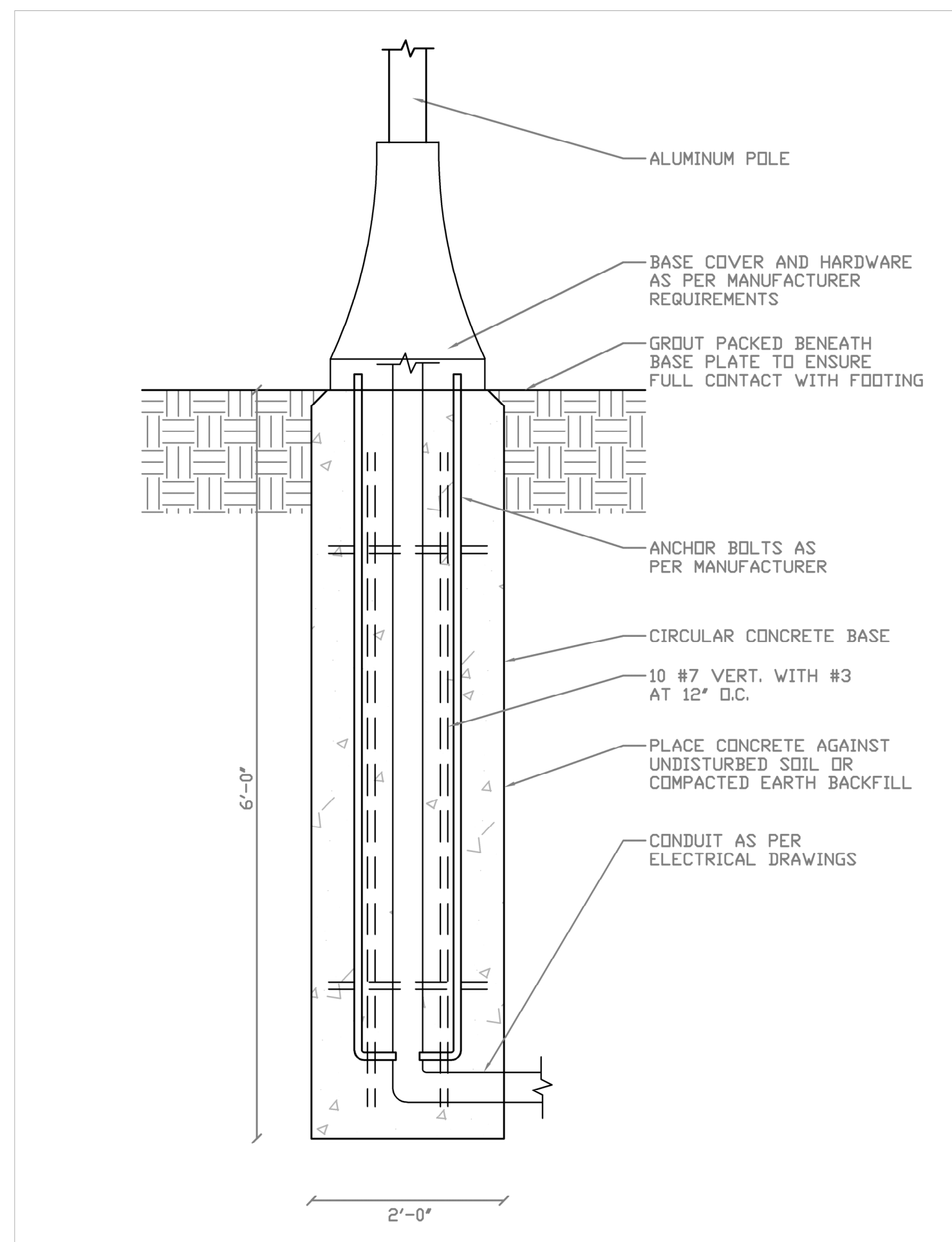
Sheet Name

LIGHTING FIXTURE
SCHEDULE AND
DETAILS

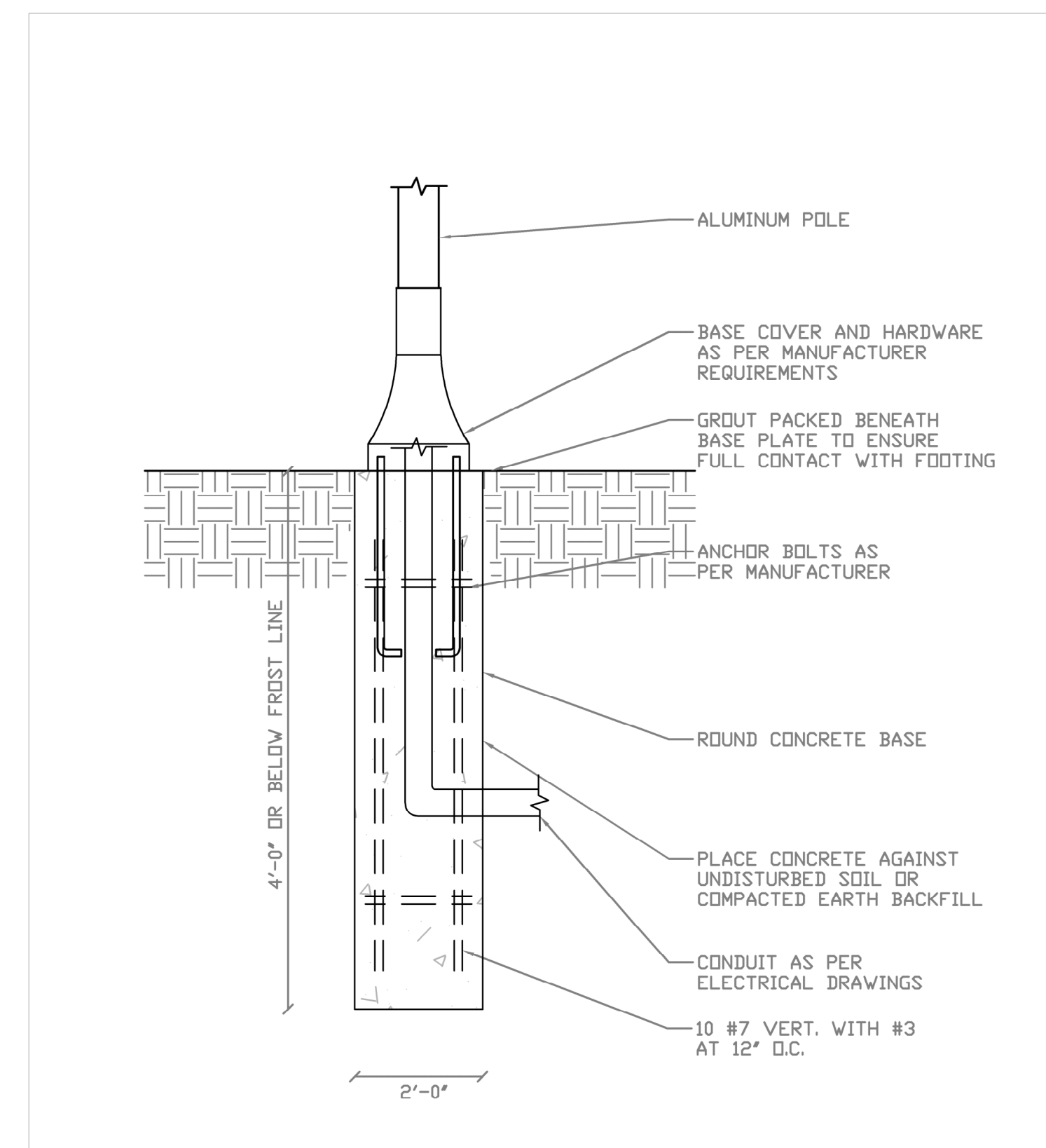
Sheet Number

ES501

Project Status
LEVEL 2 PERMIT



A1 POLE BASE FOOTING DETAIL L4, L4.1, L4.2, L5
SCALE: 1" = 1'



A2 POLE BASE FOOTING DETAIL L1 & L2
SCALE: 1" = 1'

L1,
L2

DESCRIPTION

The LuxeScape Collection presents a contemporary, architectural dayform providing superior uniformity and efficient illumination. Designed to enhance urban spaces with beautiful visual appearances and integral control solutions, LuxeScape integrates into any environment while providing high visibility by utilizing industry-leading WaveStream™ LED optics.

SPECIFICATION FEATURES

Construct ion
Housing assembly is IP60 rated and cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. 3C rated construction avoids damages from installation generated vibration. Corrosion-resistant color matching hardware are minimized to enhance appearance.

Optics
Designed for complex site or pedestrian applications, WaveStream™ LED optical waveguide technology produces both symmetric NEMA Type V and asymmetric NEMA III, IV distributions. The waveguide is manufactured from precision injection molded acrylic delivering visual comfort and optically controlled illumination for improved glare control. Luminaire efficacy measures in excess of 100 lm/W for 4000K (+/- 2700 CCT at 70 CRI (min)). Optional 3000K CCT at 70 CRI or 3000K CCT at 80 CRI also available.

Electric
LED drivers are uniquely positioned and mounted for

maximum thermal performance and extended life. Standard 0-10V dimming drivers and surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V 60Hz or 480V 60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). High ambient options available allow for 50°C operation.

Controls
Control options are designed to be simple, cost-effective, energy code, and regulation compliant solutions featuring WaveLux. See control options page for more details.

Mounting
Exposure while providing decorative appeal. Finish is compliant to 3,000 hour salt spray standard (per ASTM B117). RAL and custom color matches available.

Arm Mount.
The integrated aluminum contemporary upswep arm is bolted directly to the pole using

an "N" drill pattern. Provides a seamless transition to a 4" or 5" round pole.
Spider & Cantilever Mount.
Filter assembly mounts over 3" O.D. tenon and can be adapted to a 2-1/8" tenon. It is secured via concealed, corrosion resistant set screw and jam screw pairs in six inconspicuous locations.
Filter design provides seamless transition to 4" O.D. round pole top. Optional mounting accessories include a twin arm mount and wall mount arm.

Finish
Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC based polyester powder coatings specifically formulated to withstand extended outdoor exposure while providing decorative appeal. Finish is compliant to 3,000 hour salt spray standard (per ASTM B117). RAL and custom color matches available.

Warranty
Five-year warranty.

Invue

Catalog #	Type
Project	Date
Comments	
Prepared by	

LXS LUXESCAPE COLLECTION

DECORATIVE LUMINAIRE

CERTIFICATION DATA

UL/ULC Listed
FCC Class A
IEC 60528 IP60 Housing
ANSI C136.31 3G Vibration
ASTM A386.0 Low Copper Alloy
ASTM B117 Salt Spray Tested
RoHS
ISO 9001
DesignLights Consortium® Qualified
IEA certified (3000K CCT and warmer only)
ENERGY DATA
Electronic LED Driver
1:0.9 Power Factor
±20% Total Harmonic Distortion
120-277V 50/60Hz, 347V 60Hz, 480V 60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

EPA
Effective Projected Area: (Sq. Ft.)
Arm Mount: 1.6
Cantilever Mount: 1.3
Spider Mount: 1.6

SHIPPING DATA
Approximate Net Weight:
Arm Mount Weight: 41 lbs. [18.6 kgs.]
Cantilever Mount Weight: 46 lbs. [20.9 kgs.]
Spider Mount Weight: 53 lbs. [24 kgs.]
TD500095EN
September 26, 2020 1:28:38 PM

L4,
L4.1,
L4.2,
L5

VSR-S

SITE LIGHTING

FORM AND FUNCTION
• Sleek, low profile housing
• Engineered for optimum thermal management
• Low depreciation rate
• Optical system designed for:
- Parking Lots
- Commercial Applications

CONSTRUCTION
• Spun Aluminum
• Corrosion resistant external hardware
• One-piece silicone gasket ensures IP-65 seal for electronics compartment
• Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB

FINISH
• 5 mils electrostatic powder coat.
• NLS® standard high-quality finishes prevent corrosion protects against extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

- LISTINGS**
• Certified to UL 1598
• CSA C22.2 No. 250.0
• DesignLights Consortium® (DLC)
• DesignLights Consortium Premium® (DLCP)
• IP65/ IP67 Rated

LED WATTAGE CHART

	1EL	3EL
350 millamps	15w	-
530 millamps	25w	55w
700 millamps	35w	71w
1050 millamps	55w	105w

Project Name:		Type:						
Cat #	Micro Optics	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
Value Series Round (VSR-S)	Type 2 (T2)	16 (16L)	350 (30K)	3000K	120-277 (UNV)	Direct Pole Single (D13L) 4" (OP6)	Bronze (BRZ)	Marine Grade Finish (MCF) Housing Extension (HE) *To match EM Extension Box
	Type 3 (T3)	32 (32L)	530 (40K)	4000K	340-480 (HV)	10" (DP10) 120-277V 50/60Hz, 347V 60Hz, 480V 60Hz *See next page for Arm Configurations	White (WHT)	Button Photo Cell (PC) Universal Voltage 120-277 Motion Sensor (MS) E2E-211 100' Motion Sensor (200' Voltage)
	Type 4 (T4)	700 (7)	700 (50K)	5000K	700 (HV)	Wall Mount (WM) *Includes 4" Bolt on Arm	Black (BLK)	Emergency Battery 4W (EM4) -315, -500 Lumens Certified CA 75a 20
	Type 5 (T5)	1050 (1)	1050 (80K)	10500K	1050 (HV)		Grey (GRY)	Emergency Battery 8W (EM8) -1050, -1700 Lumens Certified CA 75a 20
	Nema 3 (N3)						Grey (GRY)	Emergency Battery 16W (EM16) -2100 Lumens Certified CA 75a 20
	Custom (CS)						Custom (CS)	Emergency Cold Fk Battery (ENCOP) -14 Watt -1050, -1700 Lumens Certified CA 75a 20

L7



FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.
CONSTRUCTION — Heavy-gauge aluminum housing.
Ceiling mount for direct installation to 4" octagonal or square junction box.
Pendant mount only for 3/8" National Pipe Thread stem; wires supplied by others.
Textured polyester powder paint finish standard.
Multiple ceiling, pendant, cord, and wall mount options available.
OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum, 90 CRI optional.
LED light source concealed with diffusing optical lens.
General illumination lighting with 1:0 S/M and 55° cutoff to source and source image.
Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.
ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box. 10% or 1% minimum dimming level available.
347V available option; transformer must be field-installed to an accessible remote-mounted junction box.
0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.
70% lumen maintenance at 60,000 hours.
LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional), ENERGY STAR® certified product.
WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.lithonia.com/Support/Customers/Resource/Support_and_conditions.aspx
Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

A+ Capable options indicated by this color background.

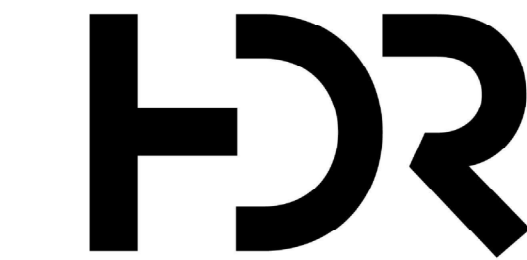
ORDERING INFORMATION: Lead times will vary depending on options selected. Consult with your Sales Representative for details. Example: LDN6CYL 35/15 L06AR LSS MVOLT E21 FCM DW HG

Series	Color temperature	Lumens	Aperture/Trim Color	Finish	Voltage
LDN6CYL 6" cylinder	27/ 2700K	05 500 lumens	L06 Downlight	LSS Semi-specular	MVOLT Multi-volt
	30/ 3000K	07 750 lumens	LW6 Wallwash	LD Matte diffuse	120 120V
	35/ 3500K	10 1000 lumens	AR Clear	LS Specular	277 277V
	40/ 4000K	15 1500 lumens	AR Clear		
	40/ 4000K	15 1500 lumens	BRZ Black		
	50/ 5000K	20 2000 lumens			

Driver3	Mounting	Options6	Architectural Colors10,11
GZ10 0-10V driver dims to 10%	FCM Ceiling mount	SF6 Single fuse	DWHG Matte white
GZ1 0-10V driver dims to 1%	WM Wall mount	NPP16D7.6 network power/relay pack with dimming for non-dimmable drivers (GZ10)	DBV Dark bronze
EZ10 0-10V dimmable LED driver with PMA smooth and flicker-free dimming performance down to 1%	Pendant 3/8" thread mount ACC180SE aircraft cable and cord mount	NPP16DER7.6 network power/relay pack with dimming for non-dimmable LED drivers (GZ10) NPS80E27.6 network dimming pack controls 0-10V drivers (EZ10, E21). NPS80E27.6 network dimming pack controls 0-10V drivers (EZ10, E21). ER controls fixture emergency circuit.	DBV Dark bronze DBS Glossy white DBM Medium bronze DBA Natural aluminum DSS Sandstone DBD Charcoal grey DBE Tennis green DBR Bright red DSB Steel blue
EZ1 0-10V dimmable LED driver with smooth and flicker-free dimming performance down to 1%		90CR1 High CRI (90+) WL9 Wet location	

- Notes**
1 Not available in ACC mount.
2 Not available with finishes.
3 Refer to TECH-240 for compatible dimmers.
4 Supplied with 10' supply and dimming connectors.
5 White cord supplied with white housings. All other finishes supplied with black cord.
6 Must specify voltage 120V or 277V.
7 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot lead and normal hot lead.
8 Interface remote mounted. Access panel (supplied by others) recommended.
9 Not available with ACC & ACC180 mounting options.
10 Additional architectural colors available, see www.lithonia.com/archcolors.
11 Color and length of stem must be specified (from 6" to 240" in even increments in maximum sections of 48").
12 Must be field-installed to an accessible remote-mounted junction box.

DOWNLIGHTING LDN6CYL



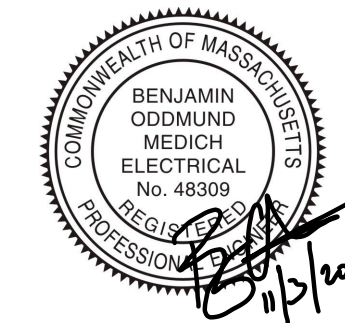
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MARK DATE DESCRIPTION

1	11/05/2020	LEVEL TWO PERMIT
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Project Number 10211243
Original Issue 11/05/2020

Sheet Name

LIGHTING CUT SHEETS

Sheet Number

ES502

Project Status

LEVEL 2 PERMIT

L11,
L12

NV-W

HIGH PERFORMANCE FULL CUT OFF WALL PACK

FORM AND FUNCTION
• Sleek, low profile housing
• Spec grade performance
• Engineered for optimum thermal management
• L70 480,000
• Reduces energy consumption and costs up to 65%

CONSTRUCTION
• Die Cast Aluminum
• Internal cooling fins, Finite Element Analysis (FEA) designed
• Corrosion resistant external hardware
• One-piece silicone gasket ensures IP-65 seal for electronics compartment
• Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
• Silicone Micro Optics: Recessed, full cutoff, vandal resistant and non-yellowing
• Dark Sky Compliant

FINISH
• 3-5 mils electrostatic powder coat.
• NLS® standard high-quality finishes prevent corrosion protects against extreme environmental conditions

WARRANTY
Five-year standard warranty

- LISTINGS**
• Certified to UL 1598
• UL 8750
• CSA C22.2 No. 250.0
• DesignLights Consortium® (DLC)
• DesignLights Consortium Premium® (DLCP)
• IP65/ IP67 Rated

LED WATTAGE CHART

	1EL	3EL
350 millamps	15w	-
530 millamps	25w	-
700 millamps	37w	71w
1050 millamps	55w	-

Project Name:		Type:						
Cat #	Light Dist.	No. of LEDs	Milliamp	Kelvin	Volts	Mounting	Color	Options
NV-W (NV-W)	Type 2 (T2)	16 (16L)	350 (30K)	3000K	120-277 (UNV)	Wall Mount (WM)	Bronze (BRZ)	Marine Grade Finish (MCF) Housing Extension (HE) *To match EM Extension Box
	Type 3 (T3)	32 (32L)	530 (40K)	4000K	347-480 (HV)		White (WHT)	Button Photo Cell (PC) Universal Voltage 120-277 Nema 775n In-Space (P17) Recessed Drive Back Box
	Type 4 (T4)	700 (7)	700 (50K)	5000K	700 (HV)		Black (BLK)	Emergency Battery 4W (EM4) -315, -500 Lumens Certified CA 75a 20
							Grey (GRY)	Emergency Battery 8W (EM8) -1050, -1700 Lumens Certified CA 75a 20
							Grey (GRY)	Emergency Battery 16W (EM16) -2100 Lumens Certified CA 75a 20
							Custom (CS)	Emergency Cold Fk Battery (ENCOP) -14 Watt -1050, -1700 Lumens Certified CA 75a 20

59

