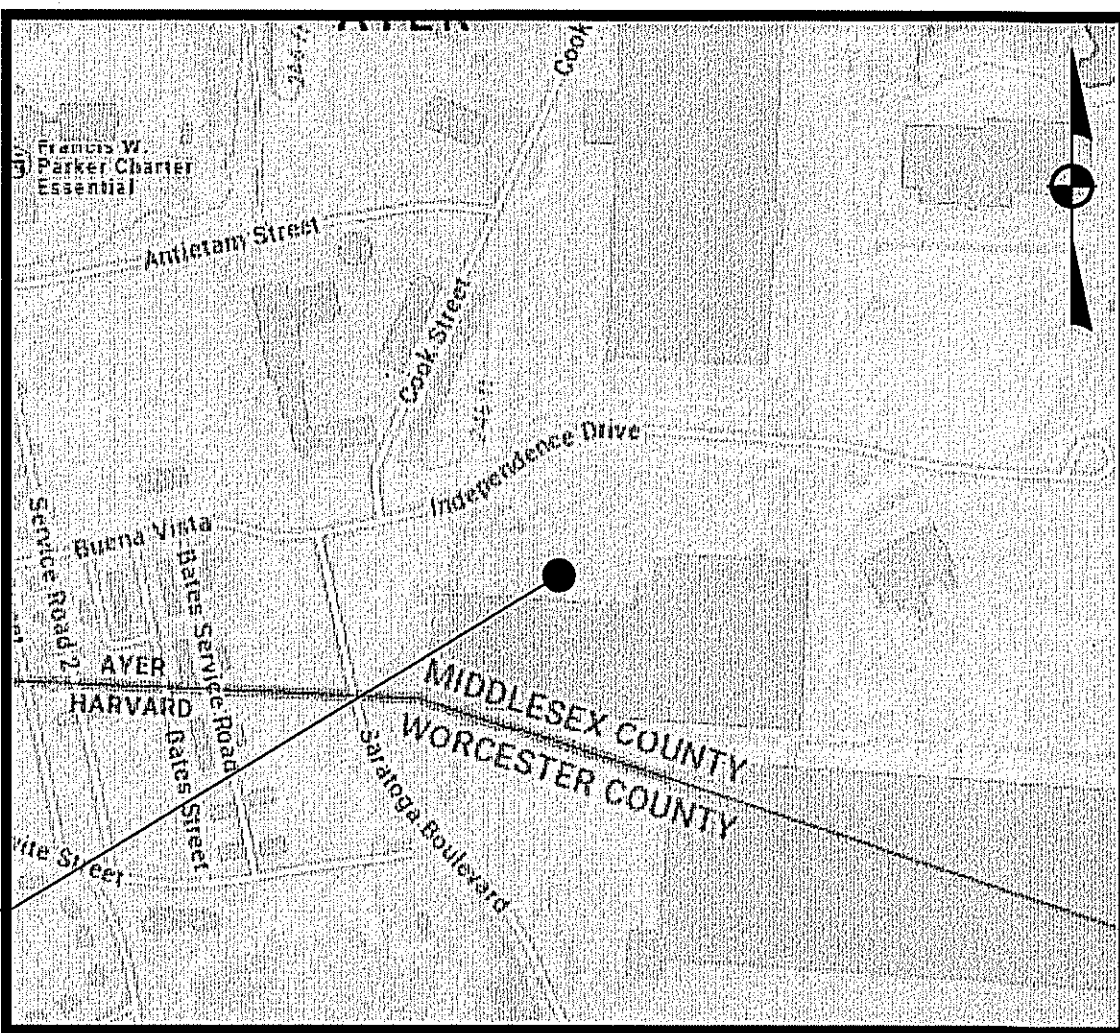


Level 2 Unified Permit Application Documents

July 3, 2025(Revised August 6, 2025)

SMC Ltd. Expansion & Addition

18 Independence Drive (Parcel ID#026.0-0013-0600.0)
Ayer & Harvard (Devens), Massachusetts 01434



SCALE: 1"=500' ±

Applicant:
SMC Limited
18 Independence Drive
Devens, MA 01434
(978) 422-6800

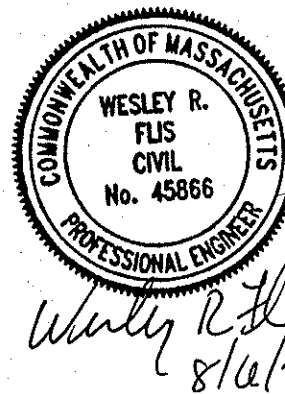
Owner:
Mack Devens Development, LLC.
330 SMC Drive
Somerset, WI 54025
(715) 247-3500

Construction Manager:
McCarty Associates, Inc.
42 Tucker Drive
Leominster, MA 01453
(978) 534-8727

Civil Engineer/Landscape Architect:
McCarty Engineering, Inc.
42 Tucker Drive
Leominster, MA 01453
(978) 534-1318

Surveyor:
Tauper Land Survey, Inc.
701 Main Street
Oxford, MA 01537
(508) 987-2266

Architect:
J. Ferrera Associates, Inc.
2 Fern Lane
Sterling, MA 01564
(978) 407-8848



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE: _____

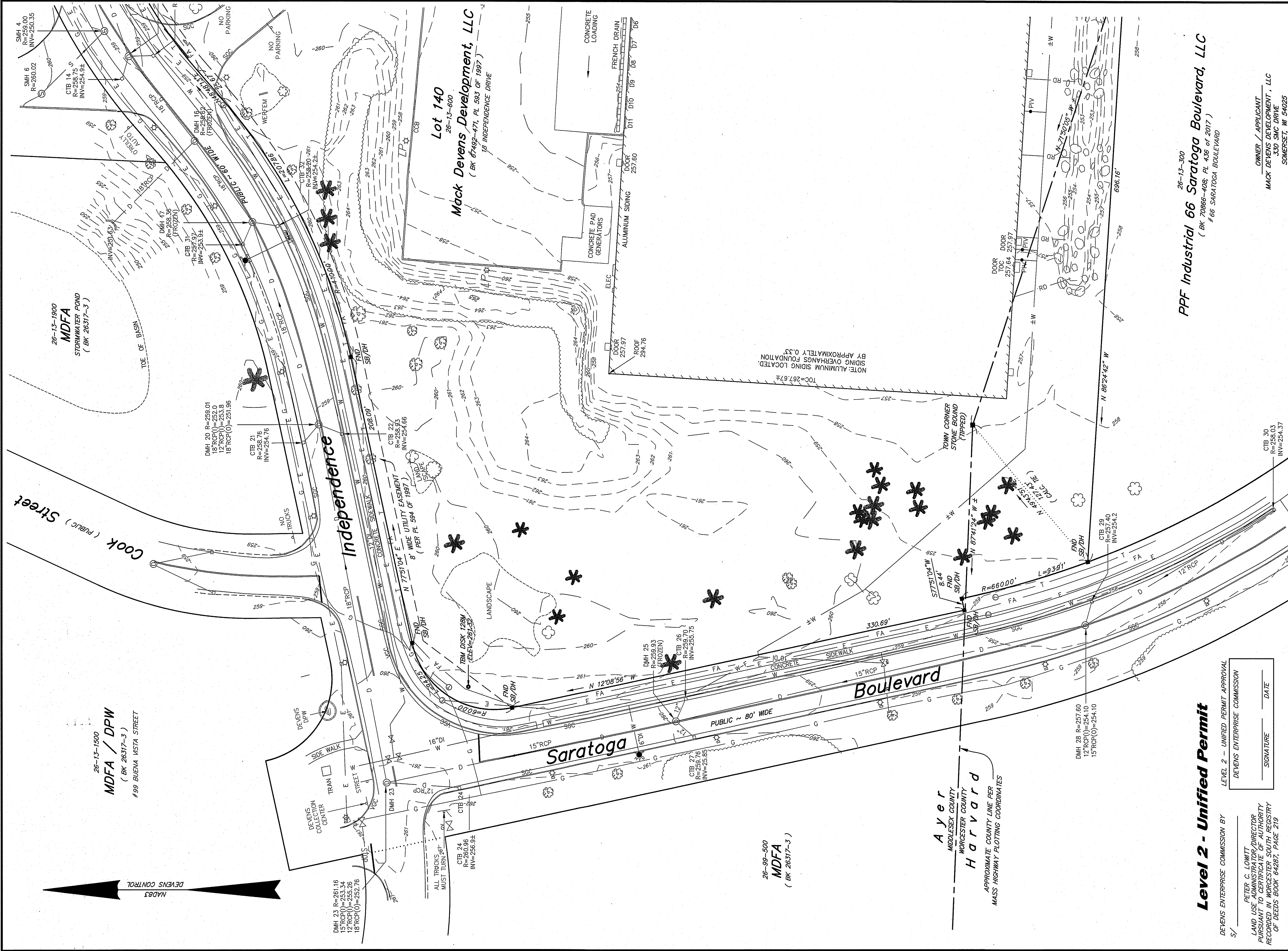
APPROVED: _____ DATE: _____
DEVENS ENTERPRISE COMMISSION CHAIRMAN

OWNER:
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

Sheet No. Sheet Title

	Cover Sheet			
1	Existing Conditions Plan (1 of 2)	10	Truck Turning Plan	A-201
2	Existing Conditions Plan (2 of 2)	11	Fire Truck Turning Plan	A-203
3	Erosion Control Notes	12	Construction Details	A-301
4	Demolition & Erosion Control Plan	13	Construction Details	
5	Layout & Materials Plan	14	Construction Details	
6	Grading, Drainage & Utility Plan	15	Construction Details	
7	Landscape Plan	16	Stormtech Detail Sheet	
8	Landscape Maintenance Plan			
9	Lighting Plan			
				Overall Main Floor Plan
				Enlarged Area "B" Floor Plan
				Exterior Elevations

Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)
Sheet Title
Cover
Sheet
Job No: 127.01.001
File Name: 127.01.001P-CCV01
Date: July 3, 2023

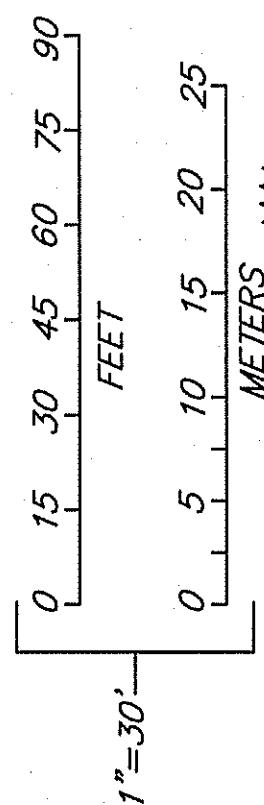


26-13-1500
MDFA / DPW
(BK 26317-3)
#99 BUENA VISTA STREET

Level 2 - Unified Permit

DEVENS ENTERPRISE COMMISSION BY _____ LEVEL 2 - UNIFIED PERMIT APPROVAL
DEVENS ENTERPRISE COMMISSION
PETER C. LOWITT
LAND USE ADMINISTRATOR/DIRECTOR
PURSUANT TO CERTIFICATE OF AUTHORITY
RECORDED IN WORCESTER SOUTH REGISTRY
OF DEEDS BOOK 64287, PAGE 219
SIGNATURE _____ DATE _____

FOR REGISTRY USE ONLY



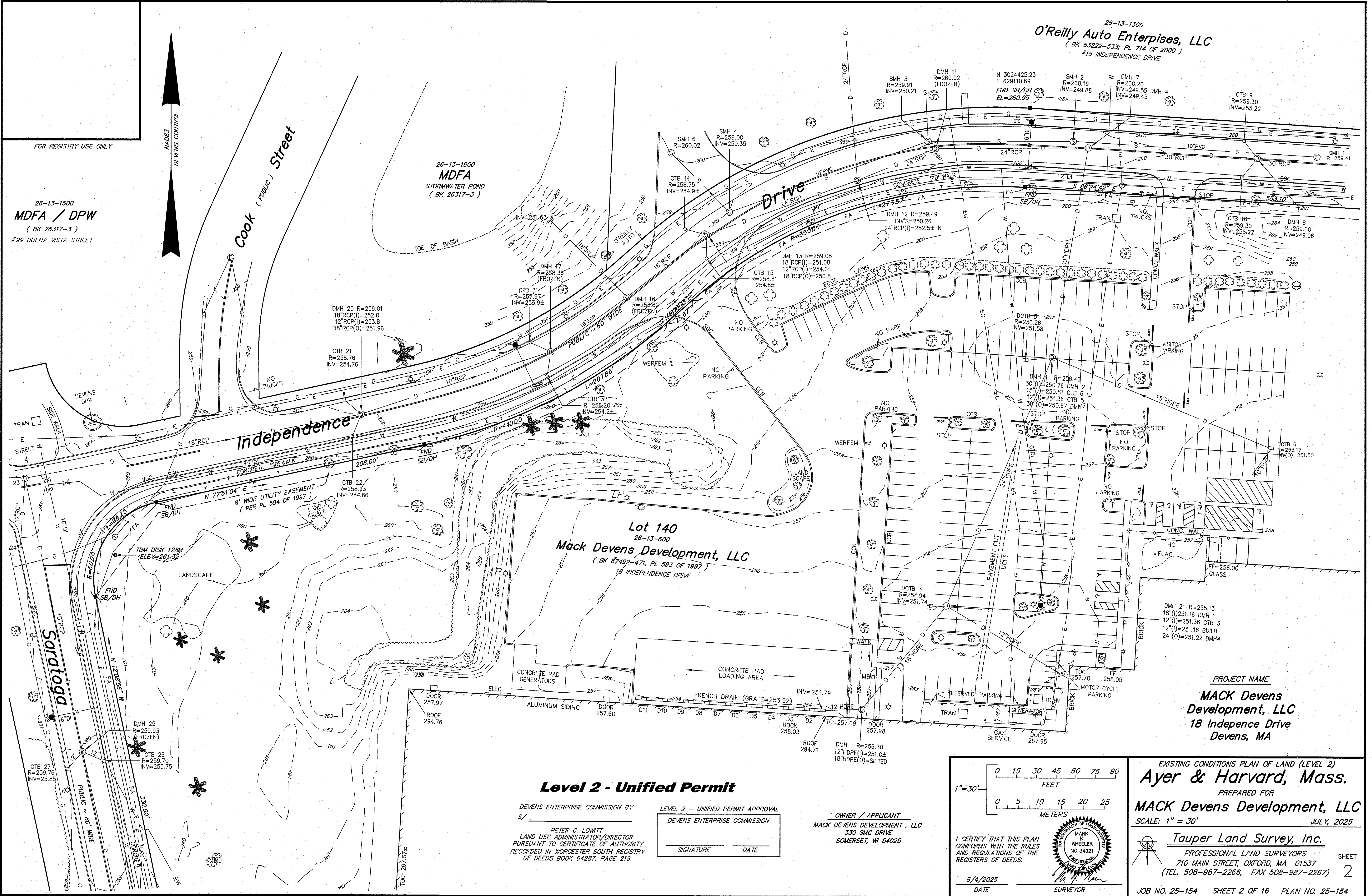
I CERTIFY THAT THIS PLAN
CONFORMS WITH THE RULES
AND REGULATIONS OF THE
REGISTERS OF DEEDS.

8/4/2025
DATE
SURVEYOR

PROJECT NAME
**MACK DEVENS
Development, LLC
18 Independence Drive
Devens, MA**

EXISTING CONDITIONS PLAN OF LAND (LEVEL 2)
Ayer & Harvard, Mass.
PREPARED FOR
MACK DEVENS Development, LLC
SCALE: 1" = 30'
JULY, 2025

Tauper Land Survey, Inc.
PROFESSIONAL LAND SURVEYORS
710 MAIN STREET, OXFORD, MA 01537
(TEL. 508-987-2266, FAX 508-987-2267)



26-13-1300
O'Reilly Auto Enterprises, LLC
(BK 63222-533, PL 714 OF 2000)
#15 INDEPENDENCE DRIVE

FOR REGISTRY USE ONLY

26-13-1500
MDFA / DPW
(BK 26317-3)
#99 BUENA VISTA STREET

26-13-1900
MDFA
STORMWATER POND
(BK 26317-3)

Lot 140
26-13-600
Mack Devens Development, LLC
(BK 67492-471, PL 593 OF 1997)
18 INDEPENDENCE DRIVE

PROJECT NAME
MACK Devens Development, LLC
18 Independence Drive
Devens, MA

Level 2 - Unified Permit

DEVENS ENTERPRISE COMMISSION BY
S/ _____

PETER C. LOWITT
LAND USE ADMINISTRATOR/DIRECTOR
PURSUANT TO CERTIFICATE OF AUTHORITY
RECORDED IN WORCESTER SOUTH REGISTRY
OF DEEDS BOOK 64287, PAGE 219

LEVEL 2 - UNIFIED PERMIT APPROVAL
DEVENS ENTERPRISE COMMISSION

SIGNATURE _____ DATE _____

OWNER / APPLICANT
MACK DEVENS DEVELOPMENT, LLC
330 SMC DRIVE
SOMERSET, WI 54025

1"=30'
0 15 30 45 60 75 90
FEET
0 5 10 15 20 25
METERS

I CERTIFY THAT THIS PLAN
CONFORMS WITH THE RULES
AND REGULATIONS OF THE
REGISTERS OF DEEDS.

8/4/2025
DATE

MARK K. WHEELER
NO. 34321
PROFESSIONAL LAND SURVEYOR

SURVEYOR

EXISTING CONDITIONS PLAN OF LAND (LEVEL 2)
Ayer & Harvard, Mass.
PREPARED FOR
MACK Devens Development, LLC
SCALE: 1" = 30'
JULY, 2025

Tauper Land Survey, Inc.
PROFESSIONAL LAND SURVEYORS
710 MAIN STREET, OXFORD, MA 01537
(TEL. 508-987-2266, FAX 508-987-2267)

SHEET
2

JOB NO. 25-154 SHEET 2 OF 16 PLAN NO. 25-154

NOTE: DURING AND AFTER THE CONSTRUCTION PERIOD, THE RESPONSIBLE PARTY FOR THE OPERATION AND MAINTENANCE OF THE SITE WILL BE THE PROPERTY OWNER / APPLICANT.

PROJECT DESCRIPTION
THE SITE CONTAINS APPROXIMATELY 21.6 ACRES OF LAND. THE PROPOSED ADDITION IS APPROXIMATELY 214' X 214' AND 100' FOOT (FOOTPRINT). ALONG WITH ASSOCIATED PARKING, LANDSCAPING AND UTILITIES. THE TOTAL DISTURBED AREA IS APPROXIMATELY 4.8 ACRES.

CONSTRUCTION PROCESS
A SIGN FOR ALL JOB NOTICES MUST BE POSTED CONSPICUOUSLY NEAR THE MAIN CONSTRUCTION ENTRANCE TO THE SITE. BEFORE CONSTRUCTION BEGINS, SILTATION CONTROL BARRIERS CONSISTING OF SILT FENCING ATTACHED TO WOOD POSTS AND BACKED BY STAKED STRAW WATTLES WILL BE PLACED BETWEEN THE WORK AREAS AND RESOURCE AREAS. ADDITIONAL SILTATION CONTROL BARRIERS WILL BE INSTALLED AROUND THE PROPOSED DRAINAGE AND AT OTHER CRITICAL LOCATIONS.

THE CONTRACTOR WILL RECORD:
1) DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
2) DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
3) DATES WHEN STABILIZATION MEASURES ARE INITIATED.

THE TIME OF CONSTRUCTION REQUIRING THE MOST ATTENTION AND CARE OCCURS BETWEEN THE STRIPPING OF NATURAL OVERBURDEN AND THE STABILIZATION OF CONSTRUCTION AREAS. CUT AND FILL AREAS CREATE ADDITIONAL RISK BY INCREASING THE POSSIBILITY OF STORMWATER RUNOFF CAUSING EROSION. THE CONTRACTOR WILL, AS MUCH AS POSSIBLE, LEAVE NATURAL COVER UNTOUCHED. THE CONTRACTOR WILL LIMIT TO THE SHORTEST TIME POSSIBLE THE TIME THAT SLOPES ARE EXPOSED. THE SLOPE STABILIZATION WILL BE COMPLETED AS EARLY AS CONSTRUCTION ACTIVITIES WILL ALLOW. DURING THE TIMES BETWEEN CLEARING AND LANDSCAPING, SLOPES WILL BE STABILIZED WITH A COMBINATION OF RIP-RAP, STRAW MULCH, TEMPORARY GRASS SEEDING AND OTHER MEASURES AS NECESSARY TO PREVENT ANY SIGNIFICANT EROSION OF SOILS.

WHEN NECESSARY, THE CONTRACTOR SHALL IMPLEMENT STRUCTURAL PRACTICES TO DIVERT FLOWS FROM EXPOSED SOILS, RETAIN/DETAIN FLOWS, OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH MEASURES MUST BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

ALL SOLID MATERIALS SUCH AS WASHINGS FROM CONCRETE TRUCKS, BUILDING MATERIALS, OR SURPLUS CONCRETE, SHALL NOT BE DIRECTED TO ANY DRAINAGE SYSTEM OR WETLAND RESOURCE AREA. IN CONJUNCTION WITH THE SITE GRADING PROCESS, A NUMBER OF SEDIMENTATION CONTROL PROCEDURES WILL BE FOLLOWED. THE OBJECT OF THE PROCEDURES IS TO PREVENT THE EROSION OF SOILS AND THE TRANSPORT OF SEDIMENTS TO THE RESOURCE AREAS AND OFF THE SITE.

THE PROPONENT SHALL MEET THE US EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS.

STABILIZATION
TEMPORARY AND PERMANENT STABILIZATION OF DISTURBED SURFACES IS THE MOST RELIABLE METHOD OF PREVENTING THE EROSION AND TRANSPORT OF SITE SOILS. TOWARD THAT END, THE AREAS THAT ARE DISTURBED WILL BE PROVIDED TEMPORARY STABILIZATION WITHIN TWO WEEKS AFTER THE LAST DISTURBANCE WHEN:
1) WORK IS NOT COMPLETE IN THAT AREA;
2) WORK WILL REMAIN INCOMPLETE FOR A PERIOD OF TWO WEEKS OR MORE; AND
3) THE PLANTING SEASON HAS NOT BEEN REACHED IN AREAS WHICH WILL BE RE-VEGETATED.

PERMANENT STABILIZATION WILL TAKE PLACE WHEN:
4) WORK IS COMPLETE IN THAT AREA AND
5) THE PLANTING SEASON HAS BEEN REACHED AND AREAS CAN BE REVEGETATED.

BEST MANAGEMENT PRACTICES EMPLOYED
TO GUARD AGAINST THE TRANSPORT OF SOILS TO RESOURCE AREAS, SEVERAL BEST MANAGEMENT PRACTICES (BMPs), WILL BE EMPLOYED. SILTATION CONTROL BARRIERS, SEDIMENT SUMPS, STRAW CHECK DIKES, SWALES, TEMPORARY SETTLING BASINS, VEGETATIVE FILTER STRIPS, SITE ENTRANCE MAT, RIP-RAP OUTLET PROTECTION, FLOCCULANTS WITH JUTE MESH OR OTHER BIOMEDIA, WILL OR MAY BE USED ON THIS SITE AS APPROPRIATE TO THE NEEDS OF EROSION CONTROL. SUCH ITEMS, SUCH AS SEDIMENT SUMPS, ARE TEMPORARY. OTHER FEATURES, SUCH AS CATCH BASINS AND AREA DRAINS ARE PERMANENT.

SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENTATION PONDS MUST BE REMOVED WHEN DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT.

SOILS
BASED ON NCRS WEB SOIL SURVEY THE PROJECT AREA CONTAINS CHARLTON-HOLLIS ROCK OUTCROP, WINDSOR LOAMY SAND, AND UDORTHENTS.

INSPECTION AND MAINTENANCE OF EROSION CONTROLS

1) AT ALL TIMES, SILTATION FABRIC FENCING, STAKES AND FILTER SOCKS SUFFICIENT TO CONSTRUCT AN EROSION CONTROL BARRIER A MINIMUM 100 FEET LONG WILL BE STOCKPILED ON THE SITE IN ORDER TO REPAIR ESTABLISHED BARRIERS THAT MAY HAVE BEEN DAMAGED OR BREACHED.
2) THE APPLICANT WILL DESIGNATE AN INSPECTOR, A PERSON OR ENTITY OTHER THAN THE SITE CONTRACTOR. THE INSPECTOR MUST BE ACCESSIBLE SEVEN DAYS A WEEK AND BE RESPONSIBLE FOR INSPECTING AND COORDINATING THE MAINTENANCE AND REPAIR OF ALL EROSION CONTROL SYSTEMS ON THE SITE.

3) AN INSPECTION OF ALL EROSION CONTROL MEASURES SHALL BE CONDUCTED BY THE INSPECTOR AT LEAST ONCE EACH WEEK UNTIL THE COMPLETION OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL SYSTEMS DAILY AND SHALL NOTIFY THE INSPECTOR OF ANY BREACHES OR FAILURES. IN CASE OF ANY NOTED BREACH OR FAILURE, THE CONTRACTOR SHALL IMMEDIATELY MAKE APPROPRIATE REPAIRS.

4) THE INSPECTOR SHALL INSPECT ALL EROSION CONTROL SYSTEMS ON THE SITE BEFORE, DURING AND AFTER ANY STORM EVENT REACHING ONE OF THE FOLLOWING THRESHOLDS:
a) ANY STORM EVENT IN WHICH RAIN IS PREDICTED TO LAST FOR 12 CONSECUTIVE HOURS OR MORE;
b) ANY STORM EVENT FOR WHICH A FLASH FLOOD WATCH OR WARNING IS ISSUED;
c) ANY SINGLE STORM EVENT PREDICTED TO HAVE A CUMULATIVE RAINFALL GREATER THAN 1/2 INCH; OR
d) ANY STORM EVENT NOT MEETING THE PREVIOUS THREE THRESHOLDS BUT WHICH WOULD MARK THE THIRD CONSECUTIVE DAY OF MEASURABLE RAINFALL.

5) THE INSPECTOR SHALL INSPECT EROSION CONTROL MEASURES AT TIMES OF SIGNIFICANT INCREASE IN SURFACE WATER RUNOFF DUE TO RAPID THAWING WHEN THE RISK OF FAILURE OF THOSE MEASURES IS SIGNIFICANT.
6) IN SUCH INSTANCES AS REMEDIAL ACTION IS NECESSARY, THE INSPECTOR SHALL CAUSE TO BE REPAIRED WITHIN THREE DAYS, ANY AND ALL SIGNIFICANT DEFICIENCIES IN EROSION CONTROL MEASURES.

EROSION CONTROL DEVICES

1) CONSTRUCTION ENTRANCE BERM
A SITE ENTRANCE MAT WILL BE INSTALLED AT THE CONSTRUCTION ENTRANCE TO THE SITE. IT WILL CONSIST OF A 50-FOOT LONG MINIMUM, 6-INCH THICK LAYER OF 2" TO 4" CRUSHED STONE OVERLYING A 6-INCH THICK LAYER OF 3" TO 6" CRUSHED STONE. THE SITE ENTRANCE MAT WILL BE INSTALLED OVER A COMPACTED BASE. THE CRUSHED STONE WILL BE REFRESHED AS NECESSARY. IF EARTHEN PRODUCTS ARE TRANSPORTED ONTO SURROUNDING STREETS DURING ANY OF THE CONSTRUCTION PHASES, THAN THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE EARTHEN PRODUCTS.
2) EROSION CONTROL BARRIERS
THE EROSION CONTROL BARRIERS WILL CONSIST OF AN APPROVED SILTATION FABRIC FENCING INSTALLED ON POSTS ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND BACKED BY STAKED UV DEGRADABLE STRAW WATTLES WHERE APPROPRIATE. THE FILTER FABRIC AND FILTER SOCKS WILL BE PLACED IN A MANNER THAT PREVENTS THE PASSAGE OF SOIL MATERIALS UNDER, AROUND OR OVER THE FENCING. ANY SEDIMENT THAT HAS BEEN CAPTURED AGAINST THE BARRIER WILL BE REMOVED PROMPTLY AND THE AREA THAT HAS AREAS OF EROSION WILL BE STABILIZED PROMPTLY.

EROSION CONTROL DEVICES (CONTINUED)

3) FILTER SOCK DIVERSION DIKES
THE FILTER SOCKS WILL BE PLACED IN OTHER LOCATIONS ON THE SITE IN ORDER TO FURTHER PREVENT THE FLOW OF SEDIMENT FROM THE SITE OR REDUCE THE VELOCITY OF RUNOFF CROSSING OPEN LAND OR RUNNING OFF OF STOCKPILE OR FILL AREAS. FILTER SOCK DIVERSION DIKES WILL ALSO BE PLACED WITHIN DEVELOPING RILLS TO REDUCE SURFACE RUNOFF VELOCITIES AND TO SHIFT THE PATH OF THE WATER FLOW. THE LOCATIONS WHERE FILTER SOCK DIVERSION DIKES ARE INSTALLED WILL BE DETERMINED IN THE FIELD AT THE INSPECTOR'S DISCRETION.

4) SLOPE STABILIZATION
SLOPES OR SURFACES THAT ARE CREATED DUE TO EXCAVATION OR FILLING OF THE SITE WILL BE STABILIZED WITH ONE OR MORE OF THE FOLLOWING:
• STRAW MULCH,
• SOFTWOOD AND HARDWOOD CHIPS, OR
• PERMANENT STABILIZATION OF SLOPES AND SURFACES WILL EMPLOY ONE OR MORE OF THE FOLLOWING:
• LOAM AND GRASS,
• SOD,
• OR A COMBINATION OF GRASSES, JUTE NETTING AND/OR PLANTS AND SHRUBBERY.

5) RUNOFF DIVERSION SWALES
RUNOFF DIVERSION SWALES WILL BE PROVIDED IN ORDER TO INTERCEPT SHEET AND CONCENTRATED FLOWS ABOVE AREAS OF CUT, ABOVE ABUTTING PROPERTIES AND ABOVE RESOURCE AREAS. THE SWALES WILL DIRECT RUNOFF TO SEDIMENT SUMPS OR TEMPORARY SETTLING BASINS OR TO DETENTION BASINS.
6) SEDIMENT SUMPS
SEDIMENT SUMPS ARE EXCAVATED DEPRESSIONS 10-FOOT IN DIAMETER AND 2-3 FEET DEEP. THE SUMPS WILL COLLECT RUNOFF FROM THE UNFINISHED DRIVE AND SLOPES AND WILL ALLOW SEDIMENT TO SETTLE OUT BEFORE FLOW CONTINUES TO A DETENTION AREA OR SILTATION CONTROL BARRIER. SEDIMENT SUMPS WILL BE CLEANED WHENEVER THE ACCUMULATED SEDIMENT HAS REACHED ONE-HALF OF THE ORIGINAL DEPTH OF THE SUMP.

7) STONE-LINED SEDIMENT SUMPS
A 10-FOOT DIAMETER, 2-FOOT DEEP, STONE-LINED SEDIMENT SUMP WILL BE INSTALLED AT ALL POINTS WHERE STONE WATER IS DISCHARGED FROM THE PIPED COLLECTION SYSTEM. THE SUMPS WILL SERVE TO COLLECT SEDIMENT WHICH MAY ERODE FROM THE SITE DURING THE CONSTRUCTION PERIOD. SEDIMENT WILL BE REMOVED FROM A STONE-LINED SEDIMENT SUMP WHEN IT HAS REACHED ONE-HALF OF THE ORIGINAL CAPACITY. STONE-LINED SEDIMENT SUMPS WILL BE CLEANED AND REMAIN IN PLACE AFTER PERMANENT STABILIZATION OF THE SITE HAS BEEN ACHIEVED.

8) TEMPORARY SETTLING BASINS
A TEMPORARY SETTLING BASIN IS A LARGE, EXCAVATED SEDIMENT SUMP THAT HAS A STONE FACE OVERFLOW LEADING TO A SWALE OR TO A DRAINAGE INLET STRUCTURE. THE SIZE VARIES WITH THE AREA DRAINING TO IT. TEMPORARY SETTLING BASINS WILL BE CLEANED WHENEVER THE ACCUMULATED SEDIMENT HAS REACHED ONE HALF OF THEIR ORIGINAL DEPTH.

9) RIP-RAP OUTLET PROTECTION
RIP-RAP OUTLET PROTECTION IS A STONE APRON BEGINNING AT A DRAINAGE SYSTEM DISCHARGE POINT AND EXTENDING DOWN THE SLOPE. THE RIP-RAP WILL SERVE TO REDUCE THE VELOCITY OF THE DISCHARGE, THEREBY PREVENTING EROSION.

CONSTRUCTION/WASTE MATERIAL
CONSTRUCTION/WASTE MATERIAL TO BE STORED ON SITE SHALL INCLUDE THE FOLLOWING:
• FILL MATERIAL
• DRAINAGE STRUCTURES/PIPING
• SEWER STRUCTURES/PIPING
• UTILITY CONDUIT/PIPING
• BUILDING MATERIAL
SEE BELOW FOR WASTE DISPOSAL PROCEDURE.

WASTE DISPOSAL
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED SECURELY IN METAL DUMPSTERS. THE DUMPSTER WILL MEET LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS WILL BE DESTROYED IN THE DUMPSTER AND EMPLOYED AS NECESSARY. A LICENSED COMPANY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS WILL TRANSPORT THE TRASH, NO TRASH OR CONSTRUCTION DEBRIS WILL BE BURIED ON SITE. THE DISPOSAL OF LIQUID WASTE IS NOT ALLOWED. INDIVIDUAL WORKING OF CONSTRUCTION DEPARTMENT IS INFORMED OF THE APPROPRIATE PROCEDURE FOR THE DISPOSAL OF CONSTRUCTION DEBRIS. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PROJECT SITE IS FREE OF LITTER AND REFUSE.

HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INDIVIDUALS WORKING ON THE SITE WILL BE INFORMED OF THE APPROPRIATE PROCEDURES FOR WASTE DISPOSAL. THE CONSTRUCTION SUPERVISOR WILL BE RESPONSIBLE FOR OVERSEEING THAT THE PROPER PROCEDURES ARE FOLLOWED.

SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED IN A TIMELY MANNER BY A LICENSED CONTRACTOR AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

EQUIPMENT & VEHICLE FUELING AND MAINTENANCE PRACTICES
VEHICLE EQUIPMENT WILL BE FUELED BY AN OVER THE ROAD FUEL TRUCK AND SMALL EQUIPMENT WILL BE FUELED BY PICKUP TRUCK FUEL TANKS. ALL EQUIPMENT WILL BE FUELED AT A MINIMUM 100 FEET FROM ANY WETLAND AND/OR WATER BODY. FUELING AREAS WILL BE INSPECTED FOR SIGNS OF LEAKS OR SPILLS.

EQUIPMENT & VEHICLE WASHING
NO HEAVY EQUIPMENT AND VEHICLE WASHING WILL BE ALLOWED ON THE SITE. ALL CONSTRUCTION EQUIPMENT WILL BE WASHED IN THE DESIGNATED STAGING AREA AT LEAST 100- FEET FROM ANY WETLAND OR WATER BODY.

SILT PREVENTION AND CONTROL
ALL CONSTRUCTION PERSONNEL WILL BE INSTRUCTED REGARDING THE FOLLOWING MEASURES. THE SITE CONSTRUCTION SUPERVISOR WILL BE RESPONSIBLE FOR OVERSEEING THAT ALL SILT PREVENTION PROCEDURES WILL BE ADHERED TO. NO STORAGE, STOCKPILING, OR STAGING OF EQUIPMENT OR CONSTRUCTION MATERIAL WILL OCCUR WITHIN 100- FEET OF ANY WETLAND OR WATERBODY. ALL MATERIALS STORED ONSITE WILL BE MAINTAINED IN AN ORDERLY MANNER AND IN THEIR APPROPRIATE CONTAINERS. MATERIALS WILL BE KEPT IN THERE ORIGINAL CONTAINERS WITH THEIR ORIGINAL LABELS. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. THE MANUFACTURER'S GUIDELINES FOR THE PROPER USE AND DISPOSAL WILL BE IMPLEMENTED. THE CONSTRUCTION SUPERVISOR WILL INSPECT THE PREMISES REGULARLY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.

PETROLEUM PRODUCTS
ON SITE CONSTRUCTION MACHINERY AND VEHICLES WILL BE MONITORED FOR LEAKS AND WILL RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE LIKELIHOOD OF LEAKAGE. NO VEHICLE MAINTENANCE OR HANDLING OF PETROLEUM PRODUCTS WILL OCCUR WITHIN 100- FEET OF ANY WETLAND/ WATERBODY. NO PETROLEUM PRODUCTS WILL STORED ONSITE.

FERTILIZERS
FERTILIZERS WILL BE APPLIED AT THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. THE STORAGE OF FERTILIZER PRODUCTS WILL NOT BE ALLOWED ONSITE.

SOLVENTS & PAINTS
ALL CONTAINERS WILL BE SEALED AND STORED WHEN NOT USED. EXCESS MATERIAL WILL NOT BE DISCHARGED TO THE STORM AND OR SEWER SYSTEMS AND WILL BE PROPERLY DISPOSED OF ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS INCLUDING ALL FEDERAL, STATE, AND LOCAL REGULATIONS. NO STORAGE WILL OCCUR WITHIN 100' OF A WETLAND OR WATERBODY.

CONCRETE TRUCK WASHOUT
CONCRETE TRUCKS WILL DISCHARGE INTO TEMPORARY BASINS, WHERE THE CONCRETE WILL BE ALLOWED TO CURE. ONCE THE CONCRETE IS CURED, THE CONCRETE WILL BE BROKEN UP AND USED AS COMMON FILL OR HAULED OFF SITE.

SPILL CONTROL PRACTICES

ALL OF THE MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE INFORMED OF THE NECESSARY PROCEDURES AND THE LOCATION OF THE CLEANUP SUPPLIES. MATERIALS AND THE EQUIPMENT NECESSARY FOR CLEANUP OF A SPILL WILL BE KEPT ON SITE IN A DESIGNATED AREA. EXAMPLES OF CLEANING EQUIPMENT ARE: SHOVELS, RAKES, WHEEL BARROWS, BROOMS, DUST PANS, MOPS, RAGS, SAFETY GLOVES AND EYE WEAR, ABSORBENT FOAMS, SAND, SAWDUST, AND PLASTIC OR METAL BINS DESIGNATED SPECIFICALLY FOR SPILL CLEANUP. AFTER DISCOVERY, ALL SPILLS WILL BE REMOVED AS SOON AS POSSIBLE.

REPORTING

REPORTABLE SPILLS, TOXIC OR HAZARDOUS (10 GALLONS OR MORE FOR PETROLEUM), MATERIAL WILL BE REPORTED TO THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF WASTE SITE CLEANUP CENTRAL REGIONAL OFFICE, 8 NEW BOND STREET, WORCESTER, MA 01608 PH-508-798-7653. THE CONSTRUCTION SUPERINTENDENT WILL BE RESPONSIBLE FOR SPILL PREVENTION AND CLEANUP COORDINATOR AND SUPERVISOR. THE CONSTRUCTION SUPERVISOR IS RESPONSIBLE FOR EDUCATING THE CONSTRUCTION PERSONNEL OF THE PROTOCOL IN THE EVENT OF A SPILL.

COPIES OF ANY SPILL REPORTS SHALL BE SENT TO D.E.C. AS THE LOCAL BOARD OF HEALTH.

NON STORAGE DISCHARGES

THE FOLLOWING NON-STORMWATER DISCHARGES ARE EXPECTED AS PART OF THE PROPOSED PROJECT DURING THE CONSTRUCTION PHASE:
WATER FROM UTILITY FLUSHING AND DUST CONTROL, PAVEMENT WASH WATER, WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED, UNCONTAMINATED GROUNDWATER DURING THE DEWATERING EXCAVATIONS, NON-STORMWATER DISCHARGES WILL BE DIRECTED TO VEGETATED SURFACES AND OR TEMPORARY SETTLING BASINS PRIOR TO DISCHARGE TO WETLANDS AND/OR WATERWAYS.

SEQUENCE OF INSTALLATION AND CONSTRUCTION

PRIOR TO THE START OF EARTH-MOVING ACTIVITIES, THE SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED ALONG THE LIMIT OF WORK AS SHOWN ON THE SITE PLANS.

CONSTRUCTION ACCESS

AT EACH CONSTRUCTION ENTRANCE, A STONE ENTRANCE MAT SHALL BE INSTALLED TO REMOVE SOIL MATERIAL FROM THE EQUIPMENT TIRES. ANY OTHER BARE CONSTRUCTION ROUTES OR EQUIPMENT STAGIERS SHALL BE STABILIZED WITH GRAVEL, WOOD CHIPS, OR TEMPORARY VEGETATION. ANY TRACKING OF SEDIMENT ONTO SURROUNDING STREETS SHALL BE IMMEDIATELY SWEPT.

LAND CLEARING AND GRADING

SLOPE STABILIZATION TO FOLLOW 974 CMR 3.04

TO THE EXTENT PRACTICABLE, CLEARING, GRUBBING AND STRIPPING SHALL BE LIMITED. WHENEVER PRACTICAL, EXISTING STRIPS OF VEGETATIVE COVER WILL BE PRESERVED BETWEEN CLEARED AREAS AND RESOURCE AREAS TO PROVIDE RUNOFF FILTRATION. ALL SLOPES SHALL BE BROUGHT TO FINISH GRADE AND STABILIZED AS SOON AS POSSIBLE. SLOPES BETWEEN 1:1 AND 2:1 STEEPNESS SHALL BE FOLLOW THE FOLLOWING PROCESS: ONCE THE GRADE OF THIS SLOPE HAS BEEN ESTABLISHED, 4" OF LOAM SHALL BE SPREAD ON TOP OF THE SLOPE AND TRACKED VERTICALLY. ONCE THE LOAM HAS BEEN TRACKED, THE SOIL SHALL BE MODIFIED IN A THREE-STEP PROCESS:
STEP ONE-- SLOPE SHALL BE SPRAYED WITH AGRICULTURAL LIME AT A RATE OF 8,668 LB/AC.

STEP TWO-- "PROGANICS" A BIOTIC SOIL MEDIA SHALL BE APPLIED TO THE SLOPE AT A RATE OF 3,500 LB/AC. ALONG WITH:

• "NEUTRALLIME" AT A RATE OF 240 LB/AC
• "JUMPSTART" AT A RATE OF 1.25 GAL/AC,
• "BIOPRIME" SHALL BE APPLIED AT A RATE OF 40 LB/AC
• 50% OF THE SLOPE SEED MIX

STEP THREE-- THE SLOPE SHALL BE SPRAYED WITH "FLEXTERRA HP-FGM AT A RATE OF 4,000 LB/AC. WITHIN THE HYDROSEED TANK, MEI RECOMMENDS THE FOLLOWING:

• NITROGEN BE ADDED AT A RATE OF 104.5 LB/AC
• PHOSPHORUS BE ADDED AT A RATE OF 0.4 LB/AC
• POT ASH BE APPLIED AT A RATE OF 130.7 LB/AC
• 50% OF THE SLOPE SEED MIX

SLOPES WHICH ARE 3:1 AND FLATTER SHALL BE STABILIZED WITH HYDROSEEDING AND/OR HAND SEEDING. ADDITIONAL RUN-OFF CONTROL MEASURES SHALL BE INSTALLED AS GRADING PROCEEDS, TO INCLUDE TEMPORARY BASINS, DIKES, AND SWALES.

TEMPORARY SEDIMENT BASINS AND SUMPS

AS NEEDED WITHIN CONSTRUCTION PHASES TEMPORARY SEDIMENT BASINS AND SUMPS WILL BE EXCAVATED PRIOR TO FURTHER SOIL DISTURBANCE ON THE SITE. THE BASINS SHALL INCLUDE STONE AND FILTER FABRIC. THE BASIN SLOPES AND BOTTOM SHALL BE STABILIZED WITH LOAM/SEALED SEED, AND/OR AN EROSION CONTROL PRODUCT AND STABILIZED EXIT SPILLWAY SHALL BE CONSTRUCTED WITH A FILTER FABRIC AND STONE APRON. TEMPORARY RISER PIPES MAY BE UTILIZED TO ALLOW RETENTION AND TREATMENT WITH CONTROLLED RELEASE OF STORMWATER RUNOFF DURING CONSTRUCTION. THE BASINS MAY BE OVER EXCAVATED AS NEEDED TO PROVIDE STORAGE FOR, AT A MINIMUM, 1,800CF PER DISTURBED ACRE OF RUN-OFF. ADDITIONAL TEMPORARY SEDIMENT BASINS OR SEDIMENT SUMPS, MAY BE CONSTRUCTED AS NECESSARY TO STORE AND ILLUSTRATE RUN OFF. SEDIMENT SUMPS ARE EXCAVATED DEPRESSIONS OF A MINIMUM 10-FOOT DIAMETER AND A 2-FOOT DEPTH AND STRATEGICALLY INSTALLED TO REDUCE VELOCITIES AND TO PROVIDE SEDIMENT TRAPPING. BASINS AND SUMPS WILL BE INSPECTED WEEKLY, BEFORE AND AFTER SIGNIFICANT STORM EVENTS. IF A SEDIMENTATION BASIN IS LOCATED WITHIN THE PROPOSED BASIN LOCATION, THE TEMPORARY BASIN GRASSES SHALL BE LEFT A MINIMUM OF ONE FOOT ABOVE THE BOTTOM OF THE PROPOSED INFILTRATION BASIN BOTTOM AND WILL BE GRUBBED OUT AS PART OF THE FINAL GRADING OF THE PROPOSED INFILTRATION BASIN.

RUN OFF CONTROL AND CONVEYANCE SYSTEMS

AS NEEDED, DIVERSION SWALES AND /OR DIKES LEADING INTO THE BASINS SHALL BE CONSTRUCTED AND STABILIZED UTILIZING EARTH, CRUSHED STONE, OR FILTER SOCKS. ADDITIONAL SWALES OR DIKES SHALL BE CONSTRUCTED AS NECESSARY TO DIVERT RUNOFF INTO TEMPORARY SEDIMENT BASINS. STONE CHECK DAMS SHALL BE INSTALLED AT APPROPRIATE INTERVALS.

STOCKPILING

SOIL STOCKPILING SHALL TAKE PLACE IN DESIGNATED AREAS, OUTSIDE OF THE WETLAND BUFFER ZONES. ANY STOCKPILING THAT WILL REMAIN INACTIVE FOR MORE THAN 2 WEEKS SHALL BE HYDROSEEDED OR COVERED WITH PLASTIC COVERS.

SURFACE STABILIZATION

APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS COMPLETED OR DELAYED GREATER THAN 2 WEEKS. ANY FIBER PAPER USED FOR SLOPE STABILIZATION SHALL BE FREE OF PFAS (POLYFLUOROALKYL SUBSTANCES).

PARKING LOT & UTILITY CONNECTIONS

AFTER THE PARKING LOT, TEMPORARY SWALES WITH CHECK DAMS OR DIKES AND SETTLING BASINS WILL BE UTILIZED TO CONTROL RUNOFF UNTIL THE CLOSED DRAINAGE SYSTEM IS FUNCTIONAL. AFTER THE UTILITIES, INCLUDING THE CATCH BASINS HAVE BEEN INSTALLED, THE PARKING LOT WILL BE FINISH GRADED AND STABILIZED WITH A BINDER COAT OF PAVEMENT.

STORM WATER INFILTRATION SYSTEM

THE INFILTRATION AREA SHALL BE BROUGHT TO FINISH GRADE, STABILIZED, AND THE OUTLET STRUCTURES SHALL BE INSTALLED BEFORE THE PROPOSED BUILDING ROOF DRAINS ARE CONNECTED TO THE SYSTEM.

INLET PROTECTION

FOLLOWING THE INSTALLATION OF THE CLOSED DRAINAGE SYSTEM, DRIVEWAY PAVING, CATCH BASIN INLETS WILL BE PROTECTED WITH CATCH BASIN FILTERS.

BUILDING SITE PREPARATION

THE PROPOSED BUILDING CONSTRUCTION AREA WILL BE CLEARED AND GRUBBED AND STABILIZATION SHALL BE PROVIDED BETWEEN CONSTRUCTION INCREMENTS.

LANDSCAPING AND FINAL STABILIZATION

AFTER CONSTRUCTION IS COMPLETE IN A GIVEN AREA ANY EXPOSED SOILS WILL BE STABILIZED BY HYDROSEEDING AND OR LANDSCAPING IN ACCORDANCE WITH 974 CMR 4.08 (3).

CONSTRUCTION SCHEDULE

THE FOLLOWING IS A GENERAL CONSTRUCTION SEQUENCE FOR THE CONSTRUCTION OF THE SITE. THE ACTUAL SCHEDULE MAY VARY SIGNIFICANTLY IF THE WEATHER CONDITIONS REQUIRE A DIFFERENT SCHEDULE AND IF SUCH CHANGE DOES NOT NEGATIVELY AFFECT THE PREVENTION OF POLLUTION. AN EXAMPLE OF A LOGICAL CHANGE TO THE SCHEDULE WOULD BE DEVIATING FROM THE SEQUENCE BELOW TO ALLOW THE LAYING OF DRIVEWAY BERM PRIOR TO A WINTER FREEZE IN ORDER TO BETTER CONTROL THE SITE DRAINAGE.

CONSTRUCTION HOURS ARE 7 A.M. TO 6 P.M. MONDAY THROUGH FRIDAY. ALL OTHER TIMES ARE NOT EXEMPT FORM NOISE STANDARDS. APPLICANT IS REQUIRED TO NOTIFY D.E.C. AND PUBLIC SAFETY OFFICER OF ANY WEEKEND WORK IN ADVANCE.

• THE APPLICANT WILL HOLD A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE DEVENS ENTERPRISE COMMISSION, THE ENGINEER, CONTRACTOR'S EMPLOYEES AND THE INSPECTOR IN ORDER TO REVIEW PERMITS, PROCEDURES AND CONSTRUCTION METHODS.
• ESTABLISH THE SITE ENTRANCE MAT AT THE CONSTRUCTION ENTRANCE TO THE SITE.
• ESTABLISH A CONSTRUCTION STAGING AND EQUIPMENT STORAGE AREA PROTECTED AGAINST EROSION BY LINES OF STAKED STRAW WATTLES AND SILTATION FENCING.
• INSTALL THE SILTATION CONTROL BARRIERS BETWEEN THE WORK AREAS AND IN OTHER LOCATIONS AS SHOWN WITHIN THE PLAN SET. INSTALL TREE PROTECTION FENCING AS REQUIRED.
• INSTALL PERIMETER CONSTRUCTION FENCE.
• TREE AND BRUSH CLEARING
• STRIP AND STOCKPILE TOPSOIL AT PROPOSED LANDSCAPE BERM AREA(S)
• PLACE THE STRAW WATTLES OR FENCING AT LEAST FIVE FEET FROM THE BASE OF THE LOAM PILE, IF APPLICABLE
• INSTALL STRIP CUTS TO STABILIZE SLOPES
• EXCAVATE FOR FOUNDATION
• POUR CONCRETE FOUNDATION FOOTINGS AND FOUNDATION
• BACKFILL OF FOUNDATION
• STEEL ERECTION
• EXCAVATE FOR INTERIOR PLUMBING & ELECTRICAL SERVICES
• IMPORT PROCESSED GRAVEL FOR SLAB BASE
• POUR CONCRETE SLAB
• CONSTRUCT DRAINAGE SYSTEM
• APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS COMPLETED OR DELAYED GREATER THAN 2 WEEKS
• 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.
• 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.
• 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.
• ALL RESOURCE AREAS SHALL BE PROTECTED FROM SEDIMENT.
• 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.
• DIVERT RUNOFF FROM OFF-SITE 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.
• LAND DISTURBANCE ACTIVITIES EXCEEDING ONE ACRE 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 ONE ACRE 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 SITE. MASS CLEARING AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
• DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
• PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FORM MARCH THROUGH MAY, AND IN LATER SUMMER AND EARLY FALL FROM AUGUST TO NOVEMBER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
• ANTI-TRACKING PAD(S) SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXITS 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.
• ALL SLOPES STEEPER THAN 3:1 (H:V 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.
• 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 RESTABILIZED PRIOR TO BEING PUT INTO FINAL OPERATION.
• 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.

• THE APPLICANT WILL HOLD A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE DEVENS ENTERPRISE COMMISSION, THE ENGINEER, CONTRACTOR'S EMPLOYEES AND THE INSPECTOR IN ORDER TO REVIEW PERMITS, PROCEDURES AND CONSTRUCTION METHODS.
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DEVENS UXO PROTOCOL AND PROCEDURES:

A. DEVENS UXO PROTOCOL AND PROCEDURES-- PRIOR TO PERFORMING ANY INTRUSIVE SOIL WORK, ALL PERSONNEL ON SITE MUST VIEW AN INSTRUCTIONAL VIDEO DESCRIBING THE TYPES OF UNEXPLODED ORDNANCE ("UXO") WHICH COULD BE ENCOUNTERED AND THE NECESSARY INSTRUCTION OF THE PROCEDURES TO BE FOLLOWED IF A POTENTIAL UXO ITEM IS ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING VIEWING OF THE VIDEO BY ALL PERSONNEL (BOTH CONTRACTOR AND SUB-CONTRACTORS) WHO WILL BE EXCAVATING OR GRADING (EITHER BY MACHINE OR HAND TOOLS). WILL BE WORKING WITHIN AN EXCAVATED AREA OR WHO WILL BE OVERSEEING OR SUPERVISING EITHER. ARRANGEMENTS CAN BE MADE FOR VIEWING OF THE VIDEO BY INDIVIDUAL WORKING OF CONSTRUCTION DEPARTMENT (978-772-4600) LOCATED AT 182 JACKSON ROAD, DEVENS, MA. CONTACT FIRE DEPARTMENT TO SCHEDULE VIEWING AS SOON AS POSSIBLE TO AVOID ANY DELAYS IN CONTRACTOR'S PROPOSED CONSTRUCTION SCHEDULE.

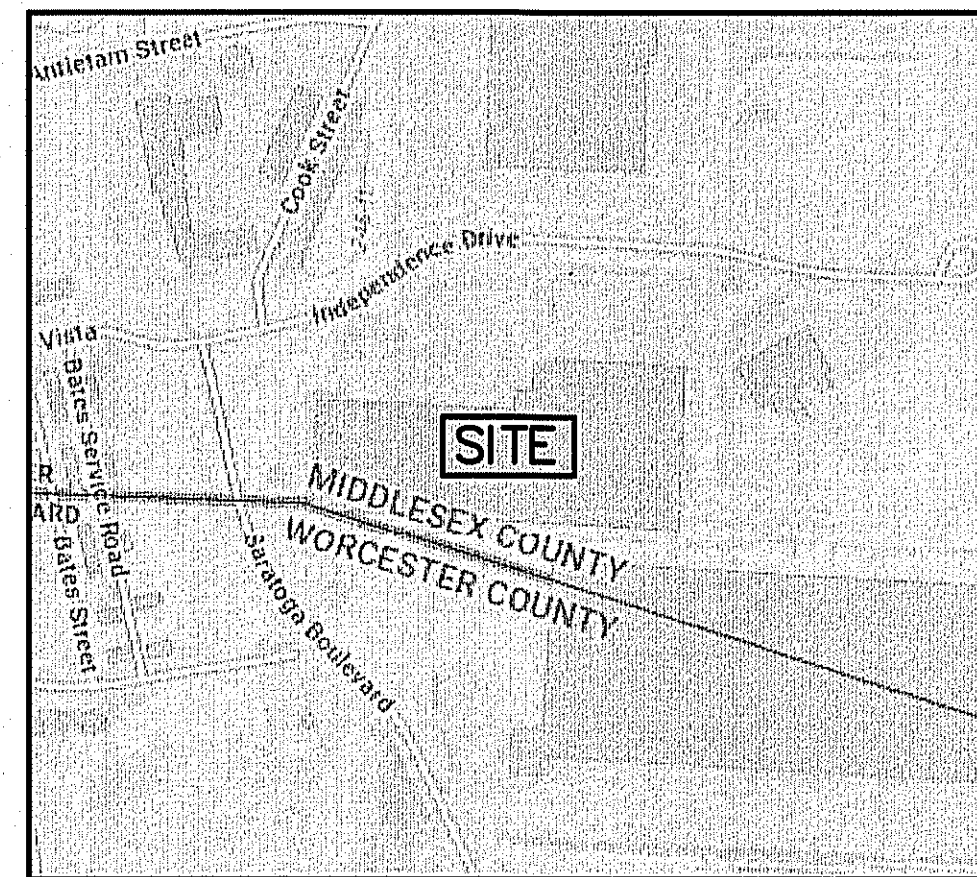
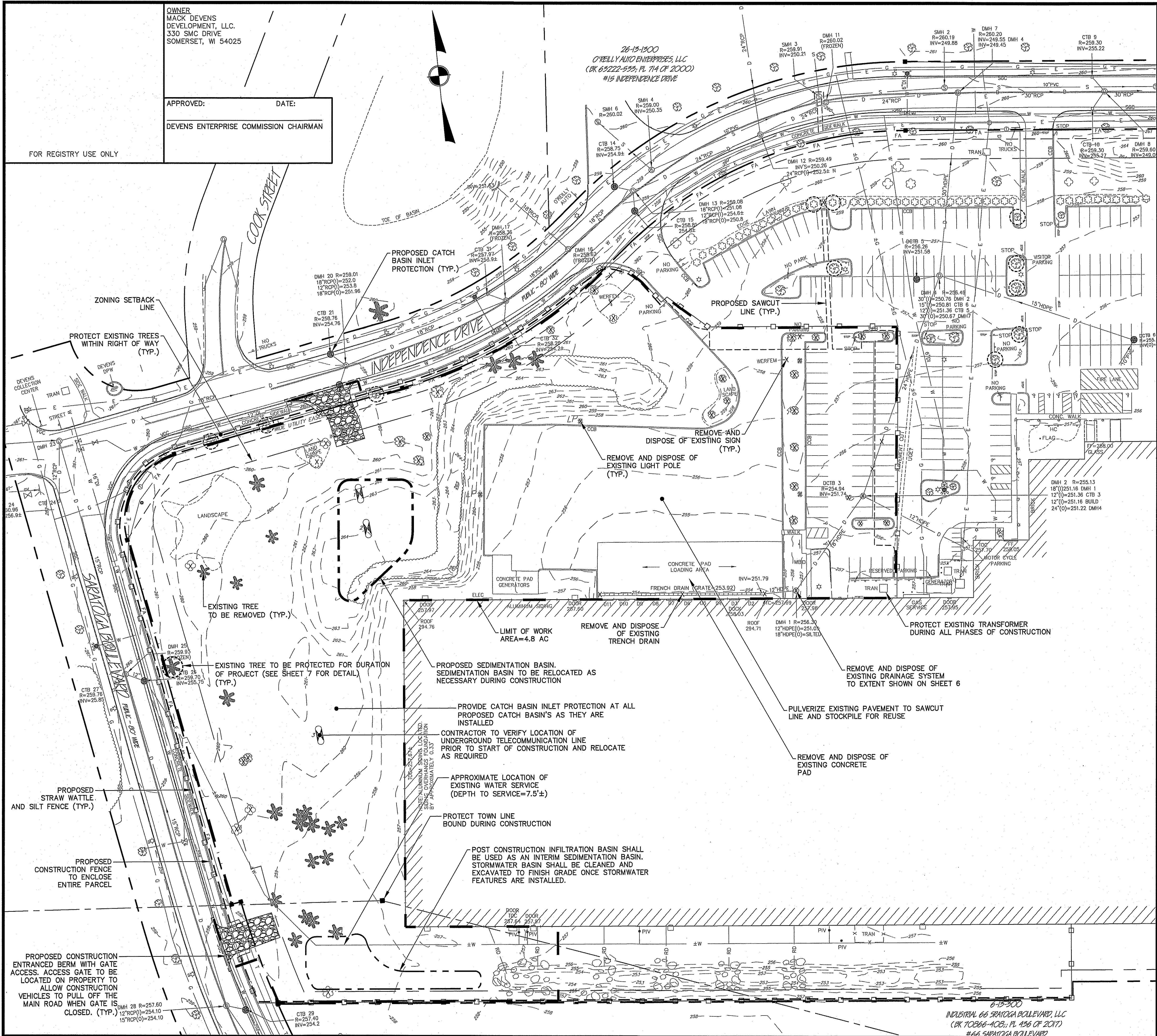
1) IF ORDNANCE IS FOUND OR SUSPECTED, CONTRACTOR SHALL FOLLOW THE FOLLOWING PROCEDURES:
I. DO NOT TOUCH
II. STOP ALL OPERATIONS IN THE AREA OF THE ITEM
III. SHUT OFF ALL EQUIPMENT IN THE AREA OF THE ITEM
IV. EVACUATE THE AREA
V. CALL DEVENS DISPATCH AT 978-772-7200
2) DISPATCH WILL NOTIFY THE APPROPRIATE EMERGENCY AND PUBLIC SAFETY PERSONNEL INCLUDING NOTIFICATION OF THE ARMY UXO RESPONSE COORDINATOR.
3) STATE POLICE, IN CONJUNCTION WITH THE DEVENS FIRE CHIEF, AND THE U.S. ARMY WILL DETERMINE THE COURSE OF ACTION TO BE FOLLOWED REGARDING THE RELOCATION, REMOVING AND/OR DESTROYING OF FOUND UXO UPON FURTHER INVESTIGATION OF THE ITEM.
4) THE CONTRACTOR WILL BE NOTIFIED WHEN PERSONNEL CAN RETURN TO THE AREA AND/OR WHEN AND WHERE OPERATION OF EQUIPMENT CAN RESUME.
5) THE FOLLOWING DISCLOSURE AND NOTIFICATION IS PROVIDED BY OWNER IN DOCUMENTATION ALLOWING ACCESS TO AND GROUND RELATED WORK TO BE PERFORMED AT DEVENS. IN THIS CONTEXT, THE "LICENSEE" IS THE PARTY TO BE PERFORMING THE WORK AND THE "LICENSOR" OWNER AS THE OWNER OF THE PROPERTY.

"LICENSEE ACKNOWLEDGES THAT DEVENS IS THE SITE OF A FORMER ACTIVE MILITARY INSTALLATION, AND THAT THERE IS A POSSIBILITY THAT UNEXPLODED ORDNANCE (UXO) MAY BE ENCOUNTERED DURING ACTIVITIES LICENSED BY THIS AGREEMENT. SPECIFICALLY, THE DEED PURSUANT TO WHICH THE UNITED STATES ARMY CONVEYED DEVENS TO LICENSOR, STATES THAT "THE [ARMY] COMPLETED A COMPREHENSIVE RECORDS SEARCH AND, BASED ON THAT SEARCH, UNDERTOOK AND COMPLETED STATISTICAL AND PHYSICAL TESTING OF AREAS ON DEVENS WHERE THE EXISTENCE OF UNEXPLODED ORDNANCE (UXO) WAS CONSIDERED TO BE PRESENT, BASED UPON SAID SEARCH AND TESTING, THE ARMY REPRESENTS THAT, TO THE BEST OF ITS KNOWLEDGE, NO UXO IS CURRENTLY PRESENT ON [DEVENS]. THE [ARMY] AND [LICENSOR] ACKNOWLEDGE THAT, DUE TO THE FORMER USE OF [DEVENS] AS AN ACTIVE MILITARY INSTALLATION, AND NOTWITHSTANDING THE ABOVE-

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

FOR REGISTRY USE ONLY



LOCUS PLAN

1"=500 FT.±

GENERAL NOTES:

- EXISTING CONDITIONS INFORMATION SHOWN IS FROM AN ON-THE-GROUND SURVEY COMPLETED BY TAUPER LAND SURVEY, 710 MAIN STREET OXFORD, MA 01537 IN MAY OF 2025.
- THE LAND SHOWN HEREON IS NOT SITUATED IN THE 100-YEAR FLOOD HAZARD ZONE PER FEMA FIRM PANEL 25017C021F. SITE IS ZONE X AND IS TOO FAR AWAY FROM MEASURED ELEVATIONS TO INTERPRET.
- NO WETLAND RESOURCE AREAS WERE OBSERVED WITHIN 100-FOET OF THE PROJECT SITE.
- PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHz) IS SPECIFICALLY PROHIBITED.
- PROPOSED USE WILL NOT CAUSE PRONOUNCED, MULTIPLE PATTERNS OF NOISE OR VIBRATION NUISANCE TO, OR INTERFERE WITH ANY SENSITIVE RECEPTOR.
- A DEP AIR QUALITY PERMIT IS NOT REQUIRED.

DEVENS SOIL MANAGEMENT POLICY:

THE FOLLOWING REPRESENTS THE POLICY OF THE MASSACHUSETTS DEVELOPMENT FINANCE AGENCY ("MASS DEVELOPMENT" OR THE "AGENCY"), WITH REGARD TO THE DISTURBANCE, EXCAVATION, MOVEMENT AND/OR REMOVAL OF SOILS LOCATED IN THE DEVENS REGIONAL ENTERPRISE ZONE ("DEVENS").

MASS DEVELOPMENT, PURSUANT TO CHAPTER 49B OF THE ACTS OF 1993, HAS BEEN DESIGNATED AS THE PUBLIC AGENCY RESPONSIBLE FOR THE REDEVELOPMENT, REUSE, AND OPERATION OF DEVENS.

WHEREAS, DEVENS IS A FORMER ACTIVE MILITARY INSTALLATION, IT IS POSSIBLE THAT UNEXPLODED ORDNANCE ("UXO") OR MUNITIONS OF EXPLOSIVE CONCERN ("MEC") AND ENVIRONMENTAL CONTAMINANTS MAY EXIST AND/OR BE ENCOUNTERED AT DEVENS. WITH THIS POLICY, MASSDEVELOPMENT SEEKS TO REDUCE ANY RISK TO HUMAN HEALTH AND SAFETY AND THE ENVIRONMENT.

UNTIL AMENDED OR RESCINDED, IT SHALL BE THE POLICY OF THE AGENCY THAT:

- PRIOR TO COMMENCING ANY INTRUSIVE EARTH WORK WITHIN DEVENS (DUE DILIGENCE, CONSTRUCTION OR OTHERWISE) ALL PERSONNEL TO BE ON SITE SHALL VIEW A UXO/MEC VIDEO BRIEFING PROVIDED BY MASSDEVELOPMENT. THIS VIDEO IS INTENDED TO INSTRUCT ON-SITE PERSONNEL AS TO HOW TO VISUALLY RECOGNIZE UXO/MEC IF FOUND DURING CONSTRUCTION ACTIVITIES AND TO PROVIDE INSTRUCTIONS ON WHAT TO DO IF POTENTIAL SUSPECTED UXO/MEC IS OBSERVED.
- TO THE EXTENT REASONABLY PRACTICABLE, NO SOIL SHALL LEAVE ANY CONSTRUCTION SITE AT DEVENS. CONSTRUCTION SITES AT DEVENS SHOULD BE "BALANCED, I.E., ENGINEERED THAT ALL SOILS REMAIN ON THE DEVELOPMENT SITE AND RESULT IN NO EXCESS SOIL.
- IN THE EVENT THAT EXCESS SOILS MUST BE REMOVED FROM A DEVELOPMENT SITE, THE FOLLOWING PROTOCOL SHALL APPLY:
 - EXCESS SOILS MAY BE TRANSPORTED TO ANOTHER SUITABLE LOCATION WITHIN DEVENS, PROVIDED HOWEVER, THAT:
 - THE SOILS MUST BE RESTRICTED FOR USE ONLY AT A COMMERCIAL SITE.
 - THERE IS WRITTEN DOCUMENTATION EVIDENCING THE CONSENT AND APPROVAL OF THE PARTY AGREEING TO ACCEPT THE SOILS FOR A SPECIFIC USE AND THE USE, LOCATION AND DISPOSITION OF THE SOILS SHALL BE APPROVED IN WRITING BY MASSDEVELOPMENT.
 - CHEMICAL TESTING OF SOILS TO BE TRANSPORTED MUST BE PERFORMED IN CONFORMITY WITH THE SOIL MANAGEMENT PLAN DEVELOPED BY HALEY AND ALDRICH (TO BE PROVIDED BY MASSDEVELOPMENT UPON REQUEST) AND ANY SITE SPECIFIC REQUIREMENTS IMPOSED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION ("MA DEP"). THE MA DEP MUST REVIEW AND APPROVE THE RESULTS OF THE SOILS TEST PRIOR TO THE SOILS BEING TRANSPORTED.
 - UPON APPROVAL OF SOIL TEST RESULTS BY THE MA DEP, THE OWNER OF THE SOILS SHALL REQUEST THAT MASSDEVELOPMENT PROVIDE WRITTEN APPROVAL FOR THE SOILS TO BE TRANSPORTED; AND
 - ANY RELOCATION OF SOILS SHALL BE COMPLIANT WITH ALL APPLICABLE DEC REGULATIONS AND BYLAWS.

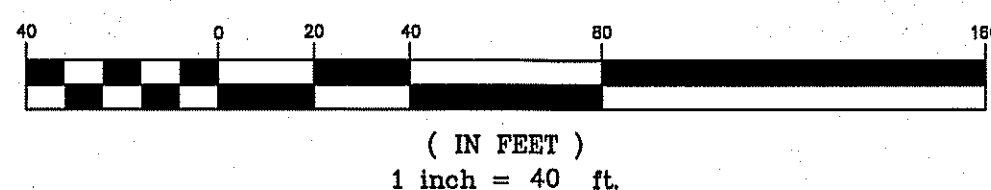
- IF THERE IS NO SUITABLE LOCATION ON DEVENS TO RELOCATE THE SOILS, THE SOILS MAY BE REMOVED TO A LOCATION OUTSIDE OF DEVENS, PROVIDED HOWEVER, THAT:
 - THE REQUIREMENTS OF PARAGRAPHS 3(A)-(V) SHALL APPLY; AND
 - ALL SOILS TO BE RELOCATED OUTSIDE OF DEVENS SHALL BE PASSED THROUGH DIAMETER SCREEN UNDER THE SUPERVISION OF QUALIFIED PERSONNEL;
- ALL TAILINGS (I.E. DEBRIS/MATTER NOT PASSING THROUGH THE SCREEN) SHALL BE UTILIZED ON SITE; AND
- IF UXO/MEC IS FOUND IN THE TAILINGS (OR ELSEWHERE), OPERATIONS IN THE VICINITY OF THE FOUND ITEM SHALL IMMEDIATELY CEASE AND THE MASSDEVELOPMENT AND STATE POLICE SHALL BE NOTIFIED BY THE CONTRACT (STATE POLICE PHONE #978-772-7200)

- IN THE EVENT THAT AREAS OF SUSPECTED ENVIRONMENTAL CONTAMINATION (I.E. UNDERGROUND STORAGE TANKS, FOREIGN MATERIALS, SUBSTANCES, ETC.) ARE FOUND, OPERATIONS IN THE AREAS IN THE VICINITY OF THE SUSPECTED CONTAMINATION SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MASSDEVELOPMENT (DEVENS ENVIRONMENTAL MANAGER: PHONE#978-784-2917 OR DEVENS EVP: PHONE#978-784-2929)

MASSDEVELOPMENT SHALL WORK WITH ITS ENVIRONMENTAL CONSULTANTS AND MA DEP AND/OR EPA TO PROMPTLY AGREE UPON A PLAN TO TEMPORARILY RELOCATE THE FOREIGN MATERIALS, IF POSSIBLE, IN ORDER TO PERMIT WORK ON THE SITE CONTINUE WHILE A PERMANENT DISPOSAL/REMEDIATION PLAN IS ESTABLISHED.

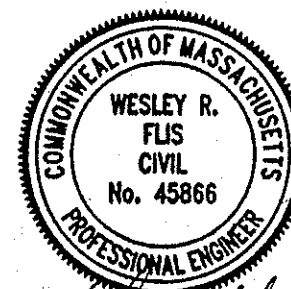
PLEASE NOTE THAT ADDITIONAL SOIL MANAGEMENT POLICIES ARE IN FORCE AT CERTAIN SPECIFIC AREAS IN DEVENS. CONTACT THE DEVENS ENVIRONMENTAL MANAGER FOR DETAILS.

GRAPHIC SCALE



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

No.	Date	Revision
1	8/6/2025	Response to Comments



Drawn By: JLL
Designed By: JLL
Checked By: WRF

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone:(978) 534-1318 fax: (978) 840-6907
www.mccartydh.com

Project Name
**Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)**

Sheet Title
**Demolition & Erosion
Control Plan**

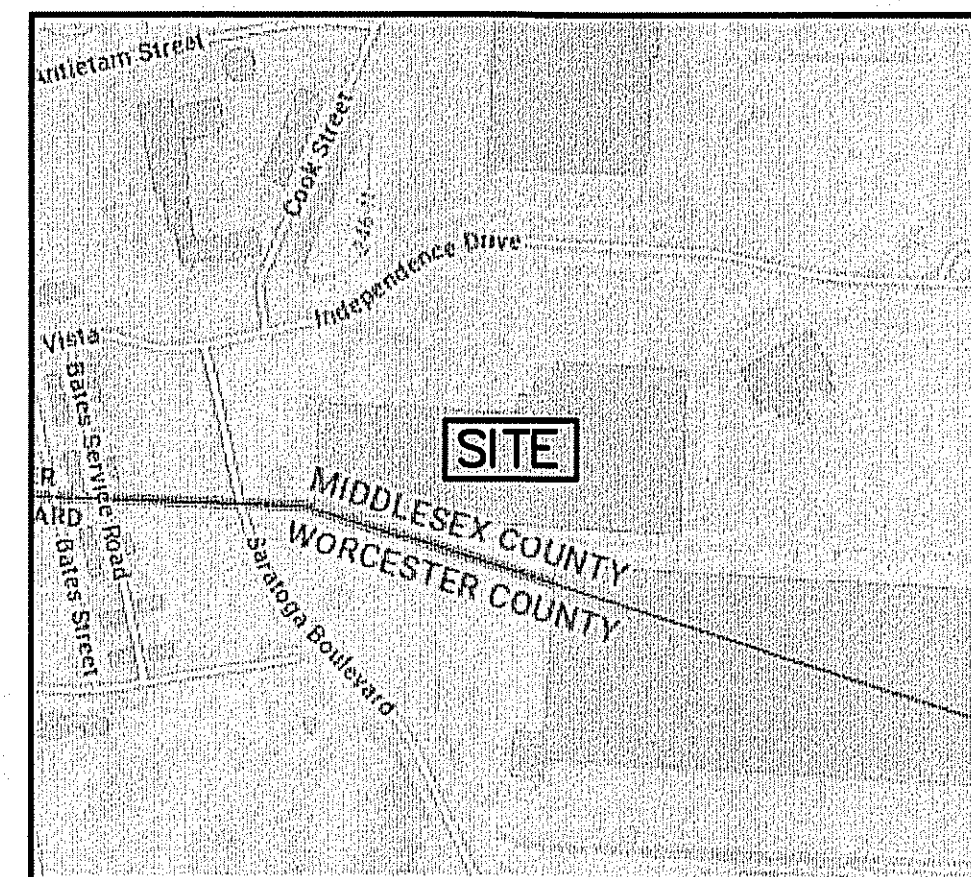
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File Name: 127.01.001P-DEM01
Date: July 3, 2025
Scale: 1"=40'
Sheet No.
4

OWNER:
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

FOR REGISTRY USE ONLY

26-13-1300
O'REILLY AUTO ENTERPRISES, LLC
(OR 63222-553, PL. 714 OF 2000)
#15 INDEPENDENCE DRIVE



LOCUS PLAN

1"=500 FT.±

GENERAL NOTES:

- EXISTING CONDITIONS INFORMATION SHOWN IS FROM AN ON-THE-GROUND SURVEY COMPLETED BY TAUPER LAND SURVEY, 710 MAIN STREET OXFORD, MA 01537 IN MAY OF 2025.
- THE LAND SHOWN HEREON IS NOT SITUATED IN THE 100-YEAR FLOOD HAZARD ZONE PER FEMA FIRM PANEL 25017C0211F. SITE IS ZONE X AND IS TOO FAR AWAY FROM MEASURED ELEVATIONS TO INTERPRET.
- NO WETLAND RESOURCE AREAS WERE OBSERVED WITHIN 100-FEET OF THE PROJECT SITE.
- PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHz) IS SPECIFICALLY PROHIBITED.
- PROPOSED USE WILL NOT CAUSE PRONOUNCED, MULTIPLE PATTERNS OF NOISE OR VIBRATION NUISANCE TO, OR INTERFERE WITH ANY SENSITIVE RECEPTOR.
- A DEP AIR QUALITY PERMIT IS NOT REQUIRED.
- SNOW STORAGE SHALL BE LOCATED AS SHOWN ON PLAN. OWNER AND PRIVATE CONTRACTOR SHALL COORDINATE REMOVAL OF EXCESS SNOW FROM SITE.

ZONING SUMMARY:

DISTRICT: RAIL, INDUSTRIAL & TRADE RELATED

REQUIREMENTS:	REQUIRED:	EXISTING:	PROPOSED:	CONFORMANCE:
MIN. LOT AREA:	2 AC.	21.6 AC.	21.6 AC.	Y
TOTAL AREA DIST:	N/A	4.8 AC.	4.8 AC.	Y
FRONTAGE:	100 FT.	2,077 FT.	2,007 FT.	Y
MIN. SIDE YARD:	10 FT.	65.3 FT.	65.3 FT.	N/A
MIN. FRONT YARD:	25 FT.	128.7 FT.	38.0 FT.	Y
MIN. REAR YARD:	25 FT.	N/A	N/A	N/A
MAX. BLDG HEIGHT:	75 FT.	<75 FT.	<75 FT.	Y
FAR COVERAGE:	0.5	0.34	0.41	Y
MAX IMP SURFACE:	0.73	0.58	0.63	Y
TOTAL IMP COV:	N/A	12.53 AC.	13.61 AC.	N/A
BUILDING IMP:	N/A	7.46 AC.	8.85 AC.	N/A
BUILDING IMP:	N/A	0.35	0.41	N/A
PERVIOUS PAVMT:	N/A	0 SF	10,229 SF.	N/A
TOTAL HARDSCAPE:	N/A	2,817 SF.	3,936 SF.	N/A
HARDSCAPE (%):	N/A	0.3 %	0.4%	N/A
OPEN SPACE:	N/A	18,295 SF	16,117 SF	N/A

REQUIREMENTS:

MANUFACTURING/INDUSTRIAL: 2 SPACE/1,000 SF GFA

MAX PARKING:

MANUFACTURING/INDUSTRIAL: 73,088 SF X 2/1000 = 146.2 SPACES
MAX PARKING PER 2015 APPROVAL: 463 SPACES
TOTAL MAXIMUM PARKING: 610 SPACES
EXISTING SPACES: 381
EXISTING SPACES LOST AS PART OF DEVELOPMENT: 24 SPACES
PROPOSED SPACES: 62 NEW SPACES
TOTAL SPACES: 419 SPACES

ADA ACCESSIBLE PARKING REQUIRED: 9 SPACES
EXISTING ADA ACCESSIBLE PARKING PROVIDED: 12 SPACES
PROPOSED ADA ACCESSIBLE PARKING PROVIDED: 2 SPACES
TOTAL ADA ACCESSIBLE PARKING PROVIDED: 14 SPACES

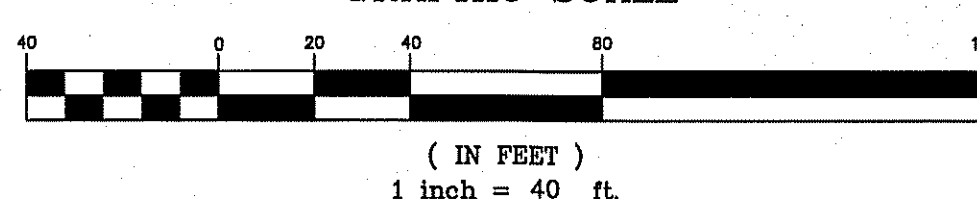
PARKING & TRAFFIC SUMMARY:

	REQUIRED:	EXISTING:	PROPOSED:	CHANGE:	CONFORMANCE:
MAX PARKING SP	610	381	419	38	Y
RESERVE PARKING	N/A	0	0	0	N/A
MAX TOTAL PARKING	610	381	419	38	Y
COMPACT SP	0	0	0	0	N/A
MIN EV/HYBRID PLUG IN SP	5%	0	4	4	Y
MIN EV/HYBRID PREFERRED SP	5%	0	5	5	Y
MIN RIDE SHARE SP	9	12	14	2	Y
MIN HANDICAP SP	N/A	N/A	N/A	N/A	N/A
ADT	N/A	356	423	67	N/A
EMPLOYEE COUNT	N/A	2	2	0	N/A
EMPLOYEE SHIFTS	N/A	223 1ST	298 1ST	75	N/A
EMPLOYEE COUNT PER SHIFT	N/A	70 2ND	125 2ND	50	N/A

BUILDING AREA & USE

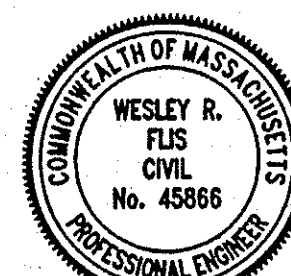
	EXISTING:	PROPOSED:	CHANGE:	FAR BY USE:
GROSS FLOOR AREA	325,289± SF.	446,752± SF.	96,242 SF.	0.48
TOTAL AREA	325,289± SF.	385,503± SF.	60,214± SF.	0.41
COMMERCIAL	N/A	N/A	N/A	N/A
MANUFACTURING	195,345± SF.	268,433± SF.	73,088± SF.	0.29
OFFICE	30,900± SF.	30,900± SF.	0± SF.	0.03
OTHER (WAREHOUSE)	99,044± SF.	122,193± SF.	23,149± SF.	0.13
GENERATOR/CHILLERS				

GRAPHIC SCALE



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

No.	Date	Response to Comments
1	8/6/2025	



Drawn By: JLL
Designed By: JLL
Checked By: WRF

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907
www.mccartydb.com

Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

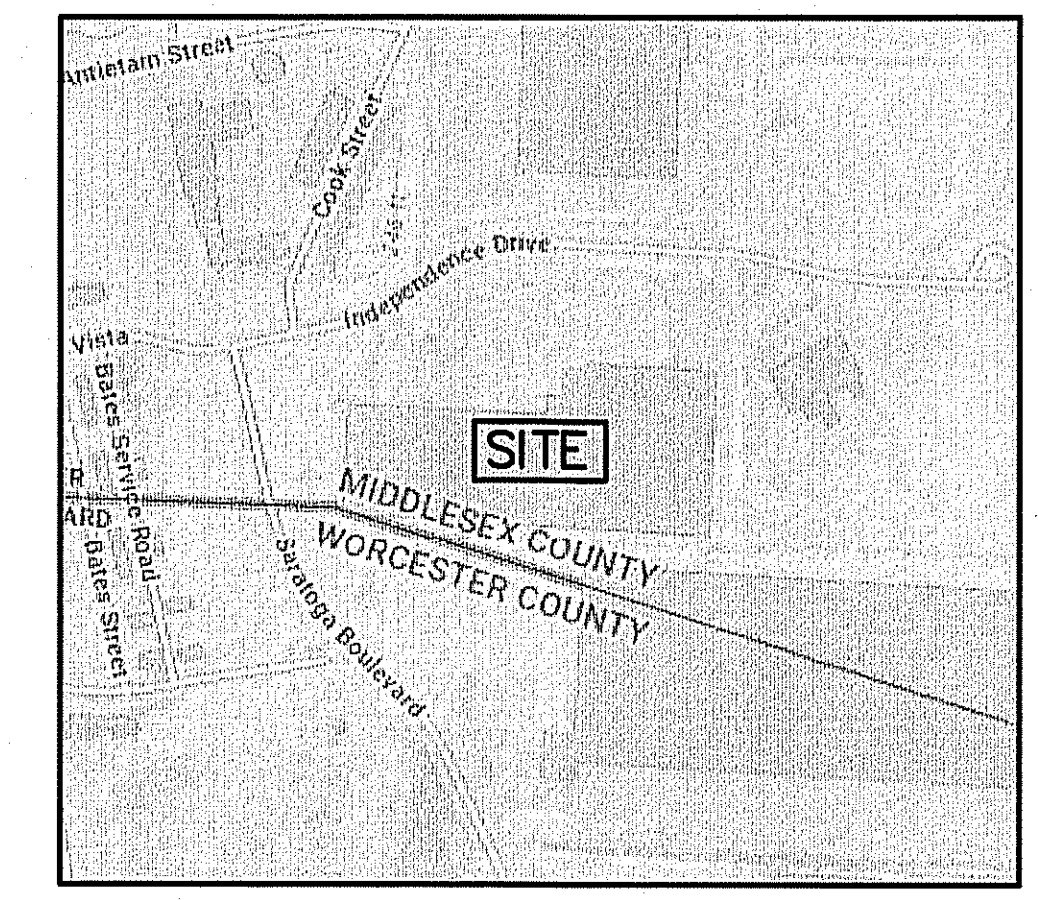
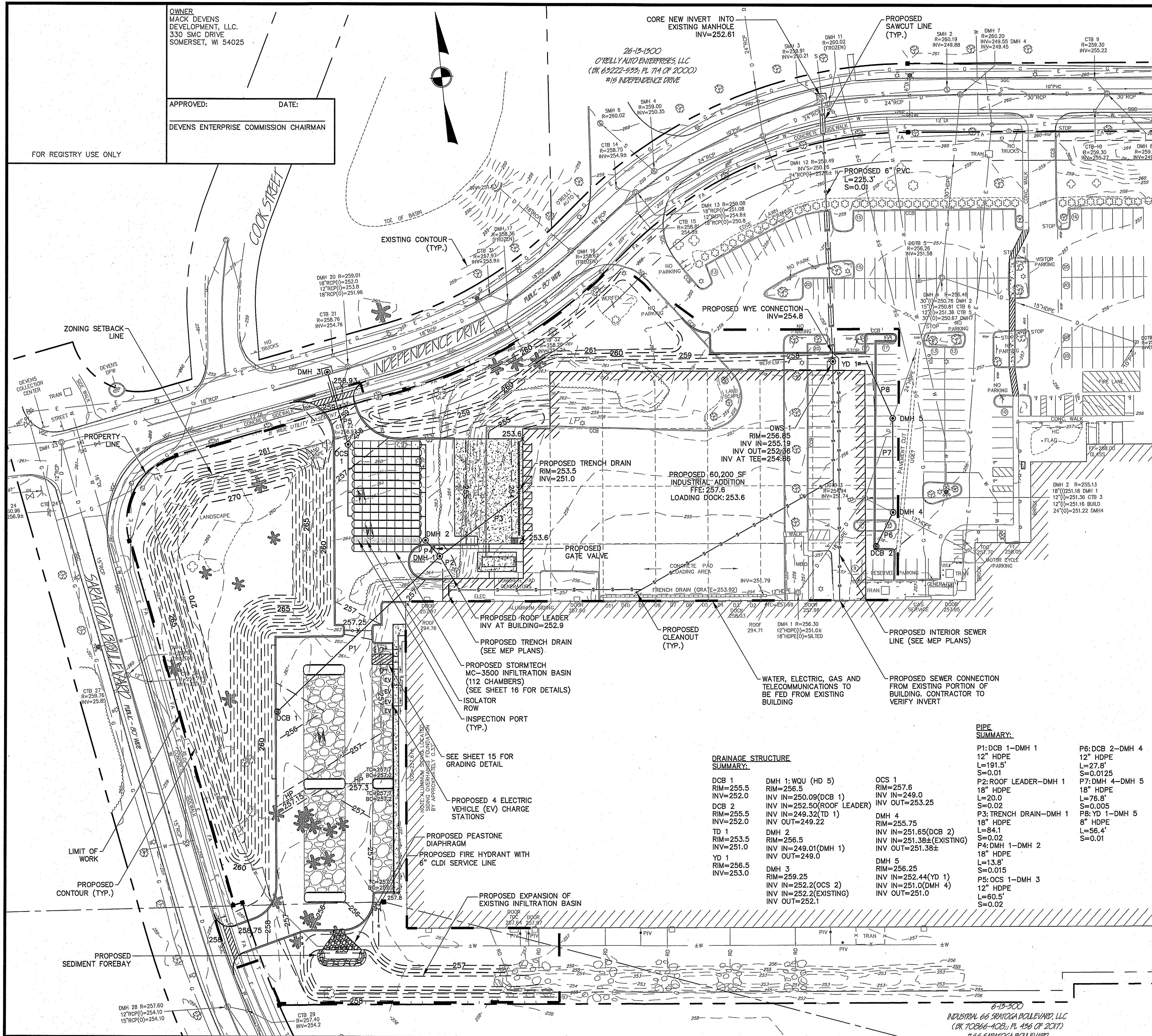
Sheet Title
Layout & Materials
Plan

Job No: 127.01.001
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OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

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LOCUS PLAN

1"=500 FT.±

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- A DEP AIR QUALITY PERMIT IS NOT REQUIRED.
- REFER TO SHEET 8 FOR OPERATION AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEM.

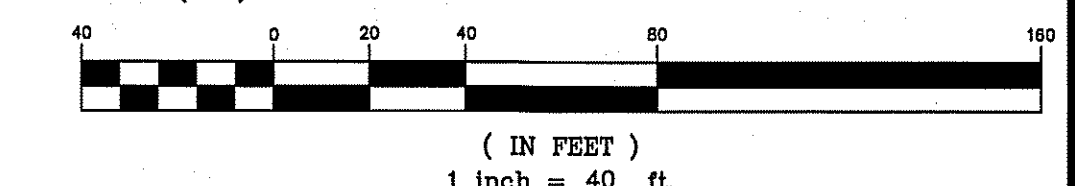
GENERAL NOTES

- THE CONSTRUCTION OF ALL PROPOSED UTILITIES SHALL CONFORM TO THE DEVENS UTILITY DEPARTMENT STANDARDS AND SPECIFICATIONS, LATEST EDITION, AS WELL AS THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS, LATEST EDITION. CONTRACTOR SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REQUIREMENTS DURING CONSTRUCTION.
- THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES IN THE LOCATION OF ANY UTILITIES SHOWN OR ENCOUNTERED DURING CONSTRUCTION SHALL BE REPORTED TO MCCARTY ENGINEERING, INC. AT 978-534-1318.
- THE CONTRACTOR SHALL CALL "DIG-SAFE" AT 1-888-DIG-SAFE (344-7233) 72 HOURS PRIOR TO CONSTRUCTION TO INFORM THE UTILITY COMPANIES OF ANY EXCAVATION ADJACENT TO EXISTING UTILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL AT AN APPROVED SITE. BURIAL OF WASTE MATERIAL ON-SITE IS NOT PERMITTED.
- CONTRACTOR SHALL STRIP TOP SOIL AND STOCKPILE ON-SITE FOR REUSE. SOIL STOCKPILES SHALL BE NO HIGHER THAN 8'. STOCKPILES SHALL BE ENCLOSED BY TEMPORARY SILT FENCES TO PREVENT TRAVEL OF SEDIMENT TO ADJACENT DRAINAGE WAYS.
- EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL SURFACE RESTORATION IS COMPLETE AND SHALL BE MAINTAINED IN GOOD CONDITION AT ALL TIMES.
- CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES FROM ON-SITE CONSTRUCTION ACTIVITIES AND REMOVE ANY SEDIMENT OR DEBRIS DEPOSITED THEREON IMMEDIATELY.
- DRAINAGE GENERATED AS A RESULT OF TRENCH DEWATERING SHALL BE DISCHARGED TO EXISTING DRAINAGE COURSES WITH PROPER EROSION CONTROL MEASURES. DISCHARGE ONTO PAVEMENT OR PRIVATE PROPERTY SHALL NOT BE ALLOWED.
- WHEN TAPPING EXISTING PRECAST MANHOLES OR SEWER PIPE, DRILL HOLES AT 4" CENTER TO CENTER WITH A STARDRILL AROUND THE PERIPHERY OF THE OPENING TO CREATE A PLANE OF WEAKNESS BEFORE BREAKING THE SECTION OUT.
- SANITARY SEWER AND WATER MAIN SHALL BE SEPARATED BY 10 FEET MINIMUM HORIZONTALLY. WHEN SEWER AND WATER CROSS, THE WATER MAIN SHALL BE A MINIMUM OF 18" ABOVE THE SEWER PIPE CROWN.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, TOP OF ALL WATER MAINS SHALL BE 5.0 FEET BELOW FINISH GRADE.
- VERIFY LOCATION OF BUILDING UTILITY CONNECTIONS WITH ARCHITECTURAL, MECHANICAL AND PLUMBING PLANS.
- ALL CLEARING, GRADING, DRAINAGE, CONSTRUCTION AND DEVELOPMENT SHALL BE CONDUCTED WITH STRICT ACCORDANCE WITH THESE PLANS.
- CONTRACTOR SHALL REFER TO THE STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR THIS PROJECT SITE FOR ALL CONSTRUCTION PERIOD INSPECTIONS, CONTROLS, AND MANAGEMENT PRACTICES REQUIRED.
- ANY UNSUITABLE FILL MATERIAL SHALL BE REMOVED WITHIN THE LIMITS OF THE INFILTRATION BASIN AND REPLACED WITH CLEAN SAND/STONE.
- ANY WORK INCLUDING GAS, ELECTRIC, WATER, AND SEWER SHALL BE COORDINATED WITH THE DEVENS UTILITIES DEPARTMENT.

EARTHWORK VOLUMES:

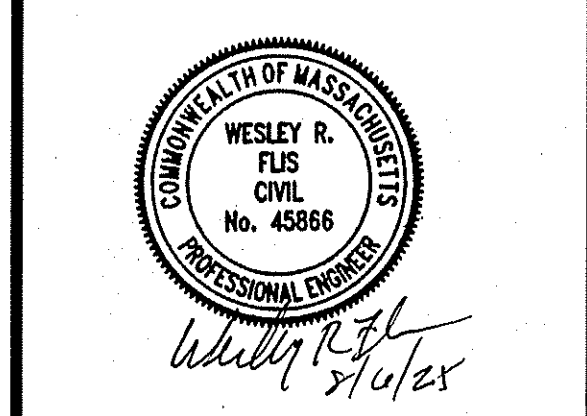
PROPOSED CUT: 10,832 CU. YD.
PROPOSED FILL: 11,070 CU. YD.
NET: 238 CU. YD. (FILL)

GRAPHIC SCALE



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

No.	Date	Response to Comments
1	8/6/2025	



Drawn By: JLL
Designed By: JLL
Checked By: WRE

Mccarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907
www.mccartydh.com

Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Sheet Title
Grading, Drainage &
Utility Plan

Job No: 127.01.001
File Name: 127.01.001P-CPG01
Date: July 3, 2025
Scale: 1"=40'
Sheet No.
6

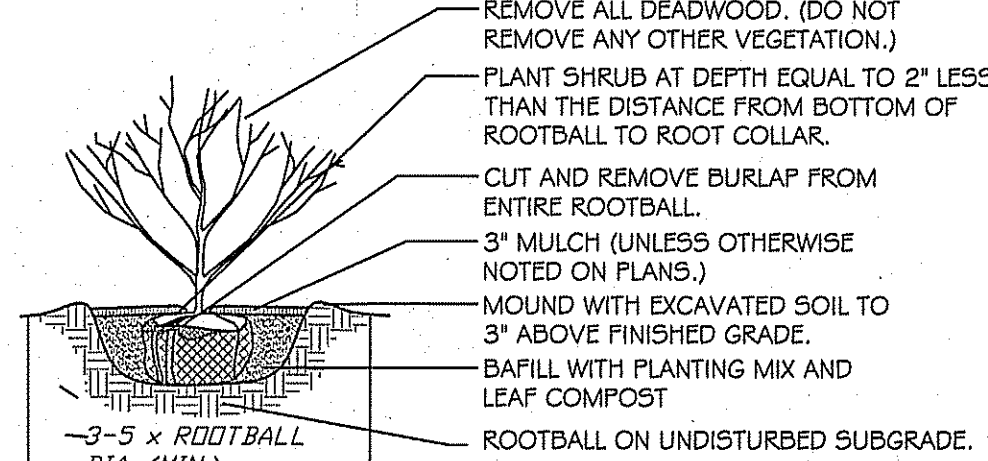
OWNER
MACK DEVENS
DEVELOPMENT, LLC.
380 SMC DRIVE
SOMERSET, WI 54025

APPROVED:

DATE:

DEVENS ENTERPRISE COMMISSION CHAIRMAN

FOR REGISTRY USE ONLY



SHRUB PLANTING

(NOT TO SCALE)

EXISTING MAPLE TREE TO REMAIN
PROTECTIVE FENCING TO MATCH DRIPLINE, TYP.

EXISTING MAPLE TREE TO REMAIN

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26-13-1300
O'REILLY AUTO ENTERPRISES, LLC
(PK 63222-553; PL 714 OF 2000)
#15 INDEPENDENCE DRIVE

THE EXISTING PLANT MATERIAL SHALL
BE REPLACED AS PART OF THE
PROPOSED SEWER CONNECTION

EXISTING TREE TO REMAIN (TYP)

PROPOSED LIMIT OF WORK

EXISTING LIGHT FIXTURE (TYP)

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Qty./Key	Common Name	Botanical Name	Size	Remarks
TREES				
2	AC	Hedge Maple	3" Cal.	B&B
16	AR	'Red Sunset' Red Maple	3" Cal.	B&B
18	AS	Shadblow Serviceberry	12" Ht.	B&B (Multi-stem)
1	AT	Silver Maple	3" Cal.	B&B
7	BL	Yellow Birch	12" Ht.	B&B (Multi-stem)
18	CF	Flowering Dogwood	3" Cal.	B&B
10	CP	Pagoda Dogwood	3" Cal.	B&B
3	IO	American Holly	8" Ht.	B&B
2	JV	Eastern Red Cedar	8" Ht.	B&B
5	NS	Black Tupelo	3" Cal.	B&B
4	PB	White Spruce	8" Ht.	B&B
2	PC	'Aristocrat' Pear	3" Cal.	B&B
13	PG	Colorado Blue Spruce	8" Ht.	B&B
5	PN	Austrian Pine	8" Ht.	B&B
14	PP	Pitch Pine	8" Ht.	B&B
1	PT	Japanese Black Pine	8" Ht.	B&B
4	PV	Common Chokeberry	3" Cal.	B&B
21	QP	Pin Oak	3" Cal.	B&B
6	TC	Redmond Linden	3" Cal.	B&B
2	SD	Showy Mountain Ash	3" Cal.	B&B

SHRUBS				
43	AM	Black Chokeberry	36" Ht.	B&B
21	CA	Sticky Dogwood	36" Ht.	B&B
10	CR	Gray Dogwood	36" Ht.	B&B
11	KL	Mountain Laurel	48" Ht.	B&B
51	LB	Common Spicebush	36" Ht.	B&B
68	MP	Northern Bayberry	48" Ht.	B&B
10	RR	Roseshell Rhododendron	48" Ht.	B&B
33	VD	Northern Arrowwood	48" Ht.	B&B

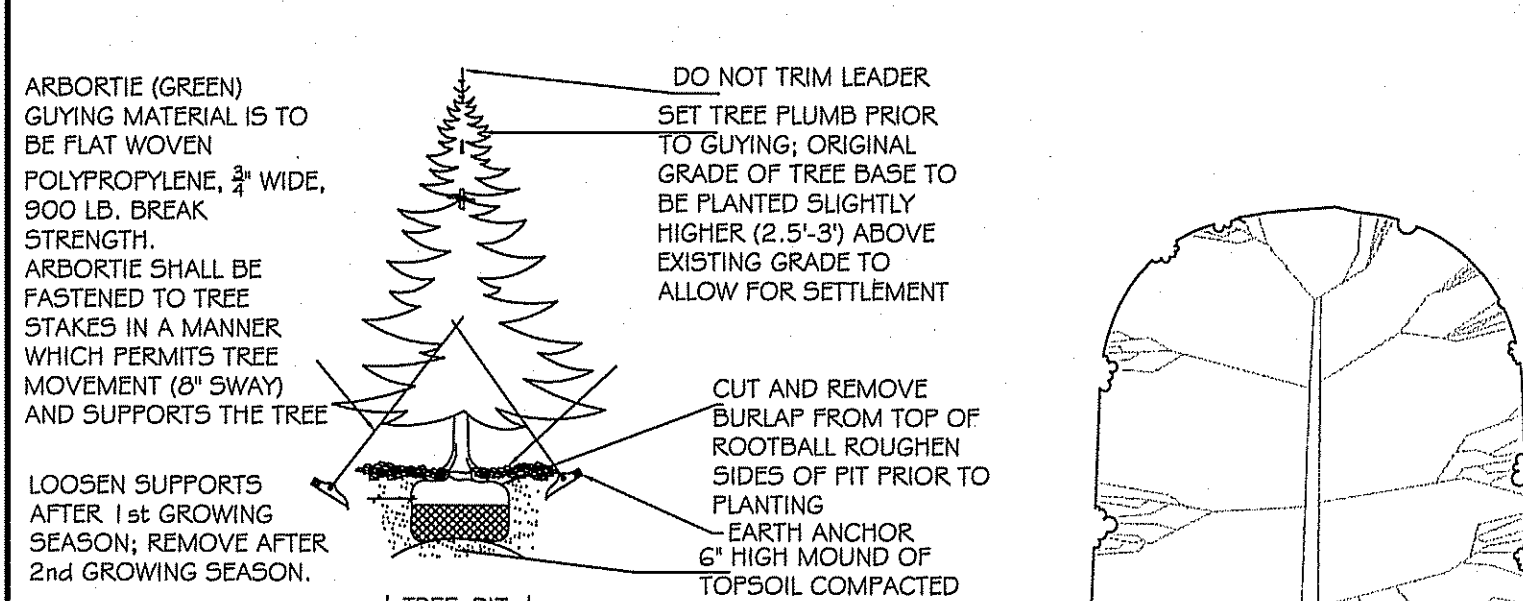
ROLLS OF HAY-SCENTED FERNS - OR APPROVED EQUAL

- LANDSCAPE NOTES
- NOTIFY DIG-SAFE AT 1-888-DIG-SAFE AND LOCAL AUTHORITIES PRIOR TO ANY TYPE OF SITE PREPARATION OR CONSTRUCTION.
 - DRAWING QUANTITIES TAKE PRECEDENCE OVER PLANT LIST QUANTITIES TO COMPLETE PLANTING AS SHOWN ON THE DRAWINGS.
 - ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES SET FORTH BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
 - ALL TREES AND SHRUBS SHALL BE PLANTED WITH THE "BEST FACE" SHOWING. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
 - ALL CONTAINER GROWN STOCK SHALL BE HEALTHY, VIGOROUS, WELL ROOTED AND ESTABLISHED IN THE CONTAINER IN WHICH THEY ARE GROWING. THEY SHALL HAVE TOPS OF GOOD QUALITY, NO APPARENT INJURY AND BE IN A HEALTHY GROWING CONDITION. A CONTAINER GROWN PLANT SHALL HAVE A WELL ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL.
 - THE QUALITY OF ALL TREES AND SHRUBS IS TO BE NORMATIVE FOR THE SPECIES. ALL PLANTS ARE TO HAVE DEVELOPED ROOT SYSTEMS, TO BE FREE OF INSECTS AND DISEASES AS WELL AS MECHANICAL INJURIES, AND IN ALL RESPECTS BE SUITABLE FOR PLANTINGS.
 - ALL CONIFERS SHALL HAVE DOMINANT BUDS AND SECONDARY NEEDLES.
 - WHERE SPECIFIED, CALIPER SIZE IS TO BE THE OVERRIDING FACTOR IN TREE SELECTION. CALIPER SIZE SHALL BE MEASURED 1 1/2" ABOVE THE ROOTBALL.
 - PLANT SUBSTITUTIONS ARE NOT ALLOWED UNLESS APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.
 - ALL DISTURBED AREAS NOT SHOWN OTHERWISE SHALL BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS.
 - PRIOR TO INSTALLING ANY PLANT MATERIAL, THE CONTRACTOR SHALL SUBMIT A LOAM SOIL SAMPLE FOR A ROUTINE, ORGANIC, SALTS, AND NITRATE SOIL TEST. UPON THE RESULTS OF THIS TEST, THE SITE CONTRACTOR SHALL AMEND THE LOAM AS RECOMMENDED. LAWN SEED MIX SHALL BE THE PREVIOUS YEAR'S CRACK KENTUCKY BLUEGRASS, 35% CARMEN CHEWING FESCUE AND 30% STALLION PERENNIAL RYEGRASS, OR APPROVED EQUAL, PLANT AT A RATE OF 1 LB. PER 150 SQUARE FEET.
 - ALL SLOPE STABILIZATION FOR SLOPES IN EXCESS OF 3:1 SHALL BE A COMBINATION OF JUTE NETTING AND A NATIVE NEW ENGLAND EROSION CONTROL OR CONSERVATION WILDFLOWER SEED MIX (FOR LOWLAND MAINTENANCE SLOPE AREAS).
 - DETENTION BASIN SEED MIX SHALL BE NEW ENGLAND EROSION CONTROL RESTORATION MIX FOR DETENTION BASINS. PLANT AT A RATE OF ONE POUND PER 1,750 SQ. FT. SEED MIX IS COMPOSED OF: RIVERBANK WILD RYE, LITTLE BLUESTEM, RED FESCUE, BIG BLUESTEM, SWITCHGRASS, NEW YORK IRONWEED, UPLAND BENTGRASS, BEGGAR TICKS, SPOTTED JOE PYE WEE, BONESET, NEW ENGLAND ASTER, WOOL GRASS, SOFT RUSH.
 - CONSERVATION SEED MIX SHALL BE NEW ENGLAND CONSERVATION WILDFLOWER SEED MIX, FROM NEW ENGLAND WETLAND PLANTS INC. PLANT AT A RATE OF ONE POUND PER 1,750 SQ. FT. SEED MIX IS COMPOSED OF: VIRGINIA WILD RYE, LITTLE BLUESTEM, BIG BLUESTEM, RED FESCUE, INDIAN GRASS, SWITCHGRASS, PASTURE PEPP, SHOWY TICK TREES, BUTTERFLY MILKWEED, BEGGAR TICKS, PURPLE JOE PYE WEE, BLACK EYED SUSAN, HEATH ASTER, EARLY GOLDENROD.
 - LAWN SEED AREAS SHALL BE NOT BE DEEMED ACCEPTABLE UNTIL IN EXCESS OF 90% OF EACH AREA, INDEPENDENTLY, IS GERMINATED, GROWING AND DISPLAYING HEALTHY, UNIFORM GROWTH AND HAS BEEN CUT TWICE. THE SITE CONTRACTOR IS RESPONSIBLE FOR APPLYING AT A MINIMUM 1" OF WATER A WEEK UNTIL THE SEED AREAS HAVE BEEN ACCEPTED. THE WATERING SHALL OCCUR IN SMALL DOSES. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY WEEDS (CRAB GRASS) WITHIN THE SEEDED AREAS UNTIL THE SEEDED AREAS HAVE BEEN ACCEPTED.
 - THE HYDRO SEED SLURRY SHALL BE A WOOD BASED BONDED FIBER MATRIX. THE APPLICATION RATE SHALL BE 2,500-3,000 LB. PER ACRE SPRAYED IN AT LEAST TWO DIRECTIONS. DO NOT APPLY HYDRO SEED SLURRY IF RAIN IS EXPECTED WITHIN 12 HOURS, AND WHEN TEMPERATURES ARE BELOW 50 DEGREES.
 - PRIOR TO PLANTING, THE LANDSCAPER SHALL REVIEW AND COORDINATE WITH THE SITE UTILITY PLAN AND GRADING PLAN.
 - THE ROOTS OF NEWLY PLANTED TREES AND SHRUBS MUST BE KEPT STEADILY MOIST, AS THE DEVELOPING ROOTS ESTABLISH IN THE NEW SOIL AT PLANTING. WATER THOROUGHLY TO SOAK THE ROOTS AND THE ROOT BALL THE AMOUNT OF SUPPLEMENTAL WATER NEEDED EACH WEEK DURING THE FIRST GROWING SEASON AFTER PLANTING DEPENDS ON RECENT RAINFALL, TEMPERATURE, AND WIND. IF LESS THAN ONE-INCH OF RAIN HAS FALLEN OVER THE PAST FIVE TO SEVEN DAYS, THE NEW PLANTINGS MUST BE WATERED. LAWNS, TREES, AND SHRUBS WATERING SHALL OCCUR AT A MINIMUM OF TWO (2) TIMES A DAY FOR THE FIRST TWO (2) MONTHS, ONCE IN THE EARLY MORNING AND THEN THE OTHER IN THE LATE AFTERNOON. IN GENERAL TEN GALLONS OF WATER APPLIED TWICE A WEEK WILL WET A 20'-24" ROOT BALL AND PROVIDE THE EQUIVALENT OF ONE INCH OF RAIN FALL. NEW LAWNS SHALL BE WATERED SO THAT IT RECEIVES AT A MINIMUM ONE INCH (1") OF WATER EVERY WEEK.
 - WITHIN THE LANDSCAPE BEDS ADJACENT TO THE BUILDING FOUNDATIONS, NO (HEMLOCK, PINE, SPRUCE, OR CEDAR) MULCH OR OTHER COMBUSTIBLE LANDSCAPE MATERIALS SHALL BE INSTALLED WITHIN 18" OF THE FOUNDATION.
 - ALL LANDSCAPE BEDS SHALL RECEIVE THREE INCHES OF DARK MULCH.
 - LANDSCAPE AREAS SHALL BE DEEP TILLED TO A DEPTH OF TWELVE INCHES TO FACILITATE DEEP WATER PENETRATION.
 - ALL TREE AND VEGETATION REMOVAL SHALL BE IN COORDINATION WITH THE PROJECT LANDSCAPE ARCHITECT.

LANDSCAPE EXCAVATION PROTOCOLS WITHIN TREE ROOT ZONES

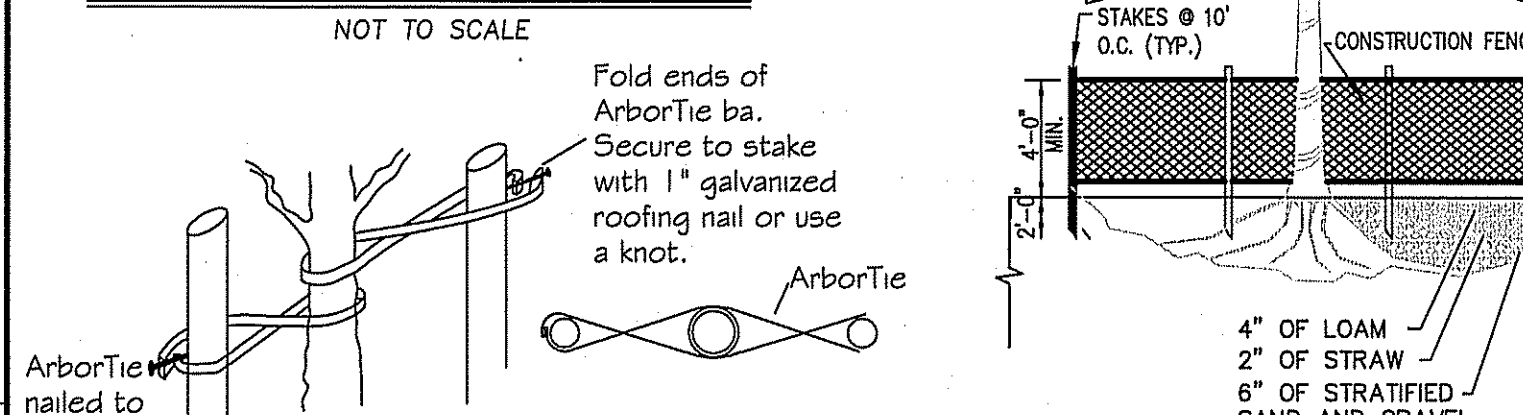
TO PROTECT TREE HEALTH AND STABILITY DURING EXCAVATION, FOLLOW THESE PROTOCOLS, PARTICULARLY WITHIN THE CRITICAL ROOT ZONE (CRZ):

- DEFINING THE CRITICAL ROOT ZONE (CRZ) AND TREE PROTECTION ZONE (TPZ)
 - CRITICAL ROOT ZONE (CRZ): THIS AREA SURROUNDS THE TREE TRUNK AND EXTENDS OUTWARD, TYPICALLY MEASURED AS ONE FOOT IN RADIUS FOR EVERY INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT (DBH).
 - TREE PROTECTION ZONE (TPZ): THIS IS A LARGER ZONE, DETERMINED BY AN ARBORIST, THAT AIMS TO SAFEGUARD THE ROOTS AND SOIL CRUCIAL FOR THE TREE'S FUTURE HEALTH.
 - THE TPZ SHOULD IDEALLY EXTEND BEYOND THE DRIPLINE (THE EDGE OF THE TREE'S CANOPY).
- PLANNING AND PREPARATION
 - EARLY ASSESSMENT: BEFORE ANY EXCAVATION, ASSESS THE TREE'S HEALTH AND CONDITION WITH AN ARBORIST.
 - TREE PROTECTION PLAN (TPP): DEVELOP A TPP DETAILING PROTECTIVE MEASURES, INCLUDING THE DEFINED TPZ AND PROPOSED EXCAVATION METHODS.
 - COMMUNICATE THE PLAN: ENSURE ALL CONTRACTORS AND WORKERS UNDERSTAND THE TPP AND THE IMPORTANCE OF TREE PROTECTION.
- SITE PROTECTION
 - FENCING: INSTALL STURDY FENCING AROUND THE TPZ TO PREVENT MACHINERY AND FOOT TRAFFIC FROM ENTERING THE AREA.
 - SIGNS: CLEARLY MARK THE TPZ WITH VISIBLE SIGNS INDICATING THAT IT IS A PROTECTED AREA.
 - BARRIERS: IF NECESSARY, USE STEM, BRANCH, AND ROOT PADDING OR WRAPS FOR HIGH-VALUE TREES IN ADDITION TO FENCING.
 - MATERIAL STORAGE: DESIGNATE AREAS OUTSIDE THE TPZ FOR STORING MATERIALS AND EQUIPMENT.
- EXCAVATION TECHNIQUES WITHIN THE ROOT ZONE
 - AVOID TRENCHING WITHIN THE CRZ: WHEREVER POSSIBLE, ALTER TRENCH ROUTES OR USE TRENCHLESS TECHNIQUES LIKE TUNNELING OR BORING TO INSTALL UTILITIES AND MINIMIZE ROOT DAMAGE.
 - MINIMUM TUNNELING DEPTH: TUNNEL AT LEAST 18 INCHES TO TWO FEET BENEATH THE CRZ.
 - TUNNELING DISTANCE: ITS BEST TO TUNNEL AT LEAST 1 TO 2 FEET AWAY FROM THE TREE'S CENTER TO AVOID THE TAPROOT.
 - HAND EXCAVATION: FOR EXCAVATION WITHIN THE CRZ, PRIORITIZE HAND TOOLS OR SPECIALIZED EQUIPMENT LIKE AIR-SPADES™ OR OTHER AIR OR HYDRO EXCAVATION TOOLS.
 - SHARP, CLEAN CUTS: IF ROOTS MUST BE CUT, MAKE SHARP, CLEAN CUTS WITH APPROPRIATE TOOLS (ROOT SAWS, LOPPERS) TO PROMOTE HEALING AND REDUCE THE RISK OF DECAY AND INSTABILITY.
 - PROFESSIONAL ROOT PRUNING: CONSULT WITH AN ARBORIST FOR GUIDANCE AND SUPERVISION WHEN PRUNING ROOTS, ESPECIALLY LARGER ONES, TO AVOID COMPROMISING TREE STABILITY.
- SOIL MANAGEMENT
 - MINIMIZE COMPACTION: AVOID DRIVING HEAVY MACHINERY OR COMPACTING SOIL WITHIN THE TPZ.
 - BACKFILLING: REPLACE SOIL AS SOON AS POSSIBLE AFTER ROOT EXPOSURE. COVERING EXPOSED ROOTS WITH WET BURLAP OR MULCH CAN PREVENT THEM FROM DRYING OUT.
 - SOIL PERMEABILITY: CHOOSE PERMEABLE MATERIALS FOR WALKWAYS OR PAVED SURFACES WITHIN THE TPZ, ALLOWING WATER AND AIR TO REACH THE ROOTS.
 - GRADE CHANGES: AVOID SIGNIFICANT GRADE CHANGES (MORE THAN 3 INCHES) WITHIN THE TREE'S DRIPLINE, AS THEY CAN NEGATIVELY IMPACT THE ROOT SYSTEM.
- POST-EXCAVATION CARE
 - WATERING: ENSURE ADEQUATE MOISTURE, ESPECIALLY IF THERE'S INSUFFICIENT RAINFALL, SAYS CASTINE.ME.US.
 - MULCHING: APPLY A LAYER OF WOOD CHIPS OR MULCH OVER THE ROOT ZONE TO CONSERVE MOISTURE AND REGULATE SOIL TEMPERATURE.
 - MONITOR HEALTH: OBSERVE THE TREE FOR SIGNS OF STRESS, LIKE BRANCH DIEBACK, WHICH MIGHT INDICATE ROOT DAMAGE.
 - FERTILIZATION AND AERATION: CONSIDER HIGH-PRESSURE, SOIL-INJECTED DEEP-ROOT FERTILIZATION AND AERATION IF RECOMMENDED BY AN ARBORIST.



EVERGREEN TREE PLANTING

(NOT TO SCALE)



DECIDUOUS TREE PLANTING

(NOT TO SCALE)

ALONG THE BOTTOM OF THE DETENTION BASIN, INSTALL ROLLS OF HAY-SCENTED FERNS, OR APPROVED EQUAL

GRAPHIC SCALE

(IN FEET)

1 inch = 40 ft.

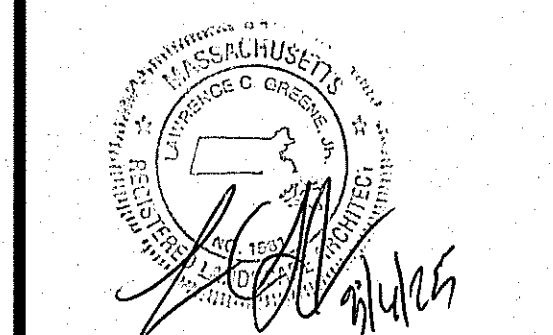
Tree Protection Fencing

(NOT TO SCALE)

APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

1. 08/06/25 Response to Comments

No. Date Revision



Drawn By: LCG
Designed By: LCG
Checked By: LCG

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Project Name
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Ayer & Harvard,
(Devens, MA)

Sheet Title
Landscape
Plan

Job No: 127.01.001
File Name: 127.01.001P-LA01
Date: July 3, 2025
Scale: 1"=40'

Sheet No.

7

GENERAL NOTES:

1. THE GENERAL GOAL OF THE LANDSCAPE MAINTENANCE PLAN IS TO ESTABLISH AND MAINTAIN AESTHETIC AND FUNCTIONAL VALUES OF THE LANDSCAPE AND HARD SCAPE THROUGH A BALANCE OF ALL AVAILABLE METHODS. THE PLAN UTILIZES THE PRINCIPLES OF INTEGRATED PEST MANAGEMENT (IPM), I.E. FOCUSING ON PEST PREVENTION USING THE LEAST TOXIC, MOST EFFECTIVE & PRACTICAL METHODS AND PLANT HEALTH CARE MANAGEMENT (PHM), FOCUSING ON MAINTAINING THE ECOSYSTEM TO PROMOTE HEALTHY GROWTH AND REDUCE SUSCEPTIBILITY TO PESTS. PLANTING THE BEST SUITED PLANTS AND THEN WATERING, MOWING AND FERTILIZING THEM PROPERLY HELPS TO REDUCE PEST DAMAGE AND PROVIDES A HABITAT FOR BENEFICIAL ORGANISMS.
2. THE OTHER PLANS, WITHIN THIS SET, FOR INFORMATION REGARDING STRUCTURAL LOCATIONS, UNDERGROUND UTILITIES (PROPOSED AND EXISTING) AND OTHER SITE CONSTRUCTION INFORMATION. REFER TO THE LIGHTING PLAN FOR LIGHT POLE LOCATIONS AND MOUNTING HEIGHT. REFER TO THE LANDSCAPE PLAN FOR EXISTING TREE PROTECTION.
3. ALL PLANTS AND PLANTING METHODS SHALL BE IN CONFORMANCE WITH THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
4. LANDSCAPE INSTALLATION AND MAINTENANCE SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED AND EXPERIENCED FOREMAN OR MAINTENANCE PERSONNEL. SUCH EXPERIENCE SHALL CONSIST OF A MINIMUM OF FIVE YEARS EXPERIENCE IN LANDSCAPE INSTALLATION AND MAINTENANCE ON SIMILAR PROJECTS. ALL LABORERS SHALL BE SUPERVISED CONTINUOUSLY DURING LANDSCAPE OPERATIONS BY A FOREMAN OR MAINTENANCE PERSONNEL. ALL PLANTING AREAS AND "MAINTAINED" LAWNS SHALL PITCH AT 1:50 MINIMUM SLOPE TO ENSURE PROPER DRAINAGE ON PLANTED AREAS.
5. LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED OR PLANTS PLACED IN THE FIELD FOR APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
6. LOCATION OF INDIVIDUAL PLANTS AND PLANTING GROUPINGS MAY BE MODIFIED IN THE FIELD, SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, TO INSURE EQUAL SPACING, THE CORRECT PLANT FACING, AND TO PROVIDE ADJUSTMENT TO FIELD CONDITIONS AND CONFLICTS.

PREVENTING DAMAGE TO EXISTING TREES DURING CONSTRUCTION:

- CONSTRUCTION EQUIPMENT CAN INJURE THE ABOVEGROUND PORTION OF A TREE BY BREAKING BRANCHES, TEARING THE BARK AND WOUNDING THE TRUNK. EXCAVATION NECESSARY FOR CONSTRUCTION AND UNDERGROUND UTILITY INSTALLATION CAN SEVER PORTIONS OF ROOTS AND CAN COMPACT SOILS, INHIBITING ROOT GROWTH AND DECREASING OXYGEN IN THE SOIL. PREVENTION METHODS FOLLOW:
1. ERECT CONSTRUCTION FENCES AROUND TREES THAT ARE TO BE RETAINED. PLACE FENCES OR OTHER PROTECTIVE MEASURES APPROVED BY THE DIRECTOR, 12" BEYOND THE DRIP-LINE OF THE TREES TO BE PROTECTED.
 2. INSTRUCT CONSTRUCTION PERSONNEL TO KEEP THE FENCED AREA CLEAR OF BUILDING MATERIALS, WASTE AND EXCESS SOIL.
 3. NO DIGGING, TRENCHING OR OTHER SOIL DISTURBANCE SHOULD BE ALLOWED IN THE FENCED AREA.
 4. SPECIFY ACCESS ROUTE ON AND OFF THE PROPERTY AND STORAGE AREAS FOR EQUIPMENT, SOIL AND CONSTRUCTION MATERIALS FOR ALL CONTRACTORS.
 5. KEEP AREAS FOR BURNING (IF PERMITTED), CEMENT WASHOUT PITS AND CONSTRUCTION WORK ZONES AWAY FROM PROTECTED TREES.
 6. WHEN INSTALLING NEW LANDSCAPING MATERIALS, AVOID EVEN SMALL INCREASES IN GRADE; AS LITTLE AS 2" TO 6" OF ADDITIONAL SOIL OVER EXISTING TREE ROOTS CAN REDUCE THE RATIO OF OXYGEN TO CARBON DIOXIDE AROUND TREE ROOTS.
 7. TREES THAT ARE DAMAGED DURING CONSTRUCTION MAY REQUIRE SEVERAL YEARS TO ADJUST, AND ARE MORE PRONE TO HEALTH PROBLEMS. MONITOR REGULARLY AND EVALUATE PERIODICALLY FOR DECLINING HEALTH OR SAFETY HAZARDS.

MAINTENANCE:

ESTABLISHED LAWN MAINTENANCE

1. MOWING:
 - * MOWING SHALL OCCUR AT A REGULAR WEEKLY SCHEDULE OR ACCORDING TO SEASONAL PRECIPITATION. THE SEASON'S FIRST MOWING SHALL OCCUR PRIOR TO MAY 1ST, PENDING ENVIRONMENTAL CONDITIONS.
 - * MOWING DIRECTION/ANGLE PATTERN SHALL BE ALTERED PERIODICALLY THROUGHOUT THE GROWING SEASON.
 - * A MULCHING MOWER SHALL BE UTILIZED FOR ALL MOWING.
 - * MOWER BLADES SHALL BE SHARPENED EVERY (4) FOUR MOWINGS.
 - * CLEAN AND SWEEP ALL WALKS AFTER MOWING OR AS NEEDED.
 - * EDGE ALL WALKS AFTER MOWING OR AS NEEDED.

ONCE ESTABLISHED FOR YEARS TWO AND THREE, NOW JUST REMOVING NO MORE THAN TWO INCHES AT A TIME AND NEWLY CUT GRASS SHOULD BE REMOVED. WEEDS SHOULD BE REMOVED AS NECESSARY IN SUMMER MONTHS RAISE MOWING HEIGHT AND IN THE FALL RETURN MOWING HEIGHT. TIME THATCH IN THE SPRING TO REMOVE WINTER DEBRIS AND ANY POTENTIAL SNOW MOLD, AERATE AS NECESSARY. APPLY FERTILIZERS, HERBICIDES AS NECESSARY, MONITOR FOR RODENTS AND TREAT AS NECESSARY IN THE FALL. REMOVE THE LEAVES FROM THE LAWN AREAS. IF THE GRASS AREAS DIE OUT, THE DEAD AREAS SHALL BE CUT OUT AND DISCARDED. EXPOSED SOIL SHALL BE AMENDED AS REQUIRED AFTER TESTING. (I.E. LIME OR FERTILIZER ADDED). SEED SHALL BE APPLIED AND IRRIGATED REGULARLY UNTIL GRASS AREAS IS ESTABLISHED. A LOOSE HAY MULCH SHALL BE APPLIED TO THE NEWLY PLANTED AREA TO A DEPTH OF 3/4". AERIAL COVER OF 70%. THERE SHOULD BE NO SEEDS IN THIS HAY. COORDINATE WITH MAINTENANCE SECTIONS OF THIS DOCUMENT.

2. SOO/LAWN REPLACEMENT:
 - * EXISTING DEAD LAWN SHALL BE CUT OUT AND DISCARDED.
 - * EXPOSED SOIL SHALL BE AMENDED AS REQUIRED AFTER TESTING, (I.E. LIME OR FERTILIZER ADDED).
 - * GRASS SEED SHALL BE APPLIED AND IRRIGATED REGULARLY UNTIL LAWN IS ESTABLISHED.
 - * A LOOSE HAY MULCH SHALL BE APPLIED TO THE NEWLY PLANTED AREA TO A DEPTH OF 3/4", AND AERIAL COVER OF 70%. THERE SHOULD BE NO SEEDS IN THIS HAY.

3. FERTILIZATION

- ORGANIC FERTILIZATION APPLICATIONS WILL BE BASED UPON SOIL ANALYSES AND/OR MONITORING FOR SYMPTOMS OF NUTRIENT DEFICIENCY.
- ROUND 1:
APPLICATION OF A BALANCED FERTILIZER WITH A PRE-EMERGENT CRABGRASS CONTROL (19-0-7 W/ PROXIMAFIN OR EQUIVALENT) DONE EARLY IN THE SPRING BEFORE SPRING WEATHER. SPOT SPRAY FOR BROADLEAF AND GRASSY WEEDS (SPEED ZONE HERBICIDE OR EQUIVALENT).
- ROUND 2:
APPLICATION OF A BALANCED FERTILIZER WITH A PRE-EMERGENT CRABGRASS CONTROL (19-0-8 W/ SECOND OR EQUIVALENT) DONE END OF MAY / EARLY JUNE. SPOT SPRAY FOR BROADLEAF AND GRASSY WEEDS (SPEED ZONE HERBICIDE OR EQUIVALENT).
- ROUND 3:
APPLICATION OF A BALANCED SLOW RELEASE FERTILIZER WITH PREVENTATIVE GRUB CONTROL (20-0-5 W/ IMIDACLOPRID (MERIT) OR EQUIVALENT). SPOT TREAT FOR BROADLEAF AND GRASSY WEEDS (SPEED ZONE HERBICIDE OR EQUIVALENT).
- ROUND 4:
APPLICATION OF A BALANCED SLOW RELEASE FERTILIZER (18-0-6 OR EQUIVALENT). SPOT SPRAY FOR BROADLEAF AND GRASSY WEEDS (Q4 HERBICIDE OR EQUIVALENT).
- ROUND 5:
APPLICATION OF A BALANCED FERTILIZER TO PROMOTE HEALTHY ROOT GROWTH W/ LIME TO HELP MAINTAIN A NEUTRAL SOIL (12-0-4 W CALSTAR OR EQUIVALENT).

4. LAWN AREA ESTABLISHMENT FOR NEW CONSTRUCTION:

DETERMINE THE LIMITS OF AREAS THAT NEED TO BE SEEDED, PERFORM A SOIL ANALYSIS, REGRADE THE SITE AS NECESSARY, INSTALL THE TOPSOIL AND TILL THE SOIL TO A DEPTH OF 4-6", AMEND THE SOILS AS NECESSARY. PERFORM FINE GRADING, SELECT SEED MIX FOR DESIRED AREAS, CHOOSE HIGH QUALITY SEED. PERFORM HYDRO-SEEDING WITH THE DESIRED SEED MIX, SEED IN TWO DIRECTIONS, WITHIN HYDROSEED ACCORDING TO THE DEVELOPER'S SPECIFICATIONS. WATER SEEDED AREAS, AND MINIMIZE TRAFFIC ON NEWLY SEEDED AREAS.

5. RESTORATION SEED ESTABLISHMENT FOR NEW CONSTRUCTION:

DETERMINE THE LIMITS OF AREAS THAT NEED TO BE SEEDED, PERFORM A SOIL ANALYSIS, REGRADE THE SITE AS NECESSARY, INSTALL THE TOPSOIL AND TILL THE SOIL TO A DEPTH OF 4-6", AMEND THE SOILS AS NECESSARY. PERFORM FINE GRADING, SELECT SEED MIX FOR DESIRED AREAS, CHOOSE HIGH QUALITY SEED. PERFORM HYDRO-SEEDING WITH THE DESIRED SEED MIX, SEED IN TWO DIRECTIONS, WITHIN HYDROSEED SLURRY INCORPORATE STARTER FERTILIZER, HERBICIDES, WATER SEEDED AREAS, AND MINIMIZE TRAFFIC ON NEWLY SEEDED AREAS.

MAINTENANCE FOR CONSERVATION SEED MIX AREAS:

ONCE ESTABLISHED, NOW ONCE A YEAR IN THE MONTH OF SEPTEMBER, IN THE SPRING IF AREAS ARE COVERED WITH ROAD, SAND RAKE OUT ACCUMULATED SAND IN THE FALL IF HEAVY LEAF LITTER OCCURS REMOVE THE LEAVES ACCORDINGLY PERFORM SOIL ANALYSIS AND AMEND AS NECESSARY.

BED MAINTENANCE:

- * PAVEMENT EDGES SHALL BE INSPECTED EVERY SPRING AND REINFORCED AS NEEDED.
- * PULL WEEDS OUT OF BEDS AS NEEDED.
- * RAKE FLOWER BEDS EVERY OTHER WEEK.
- * EDGE PLANTER BEDS AS NEEDED.
- * PINCH DEAD FLOWER HEADS TO PROMOTE NEW GROWTH AND TOO KEEP PLANT AESTHETICS.
- * PROVIDE MONTHLY WEEDING OF GARDENS DURING GROWING SEASON, THROUGH THE FIRST YEAR. WEED ONE TIME PER YEAR IN FOLLOWING YEARS.

SHRUB MAINTENANCE:

1. ANNUAL INSPECTION/MAINTENANCE: ALL LANDSCAPED SHRUBS SHALL BE INSPECTED PRIOR TO MAY 1ST. PRUNE/REMOVE DEAD LIMBS AND SUCKER GROWTH, IF NECESSARY. * PRUNE TO MAINTAIN PLANT SHAPE OR TO MAINTAIN LINE OF SITE VISIBILITY AFTER FLOWERING.

2. ORGANIC FERTILIZATION APPLICATIONS WILL BE BASED UPON SOIL ANALYSES AND/OR MONITORING FOR SYMPTOMS OF NUTRIENT DEFICIENCY.

OWNER:

MACCK DEVENS
DEVELOPMENT, LLC.
330 SUM DRIVE
SOMERSET, WI 54025

APPROVED:

DATE:

DEVENS ENTERPRISE COMMISSION CHAIRMAN

FOR REGISTRY USE ONLY

MAINTENANCE FOR RESTORATION SEEDED AREA FOR YEARS TWO AND THREE (CONT).

TREE MAINTENANCE:

1. ANNUAL INSPECTION/MAINTENANCE:
 - * ALL LANDSCAPED TREES SHALL BE INSPECTED PRIOR TO MAY 1ST.
 - * ALL DEAD LIMBS SHALL BE PRUNED AND REMOVED.
 - * SUCKER GROWTH SHALL BE PRUNED.
 - * PRUNING SHALL BE PERFORMED IN ORDER TO MAINTAIN PLANT HEALTH, PUBLIC SAFETY AND WHERE APPLICABLE LINE OF SITE/VISIBILITY.
 - * IF REQUIRED, WHEN PLANTED, SAPLINGS SHALL BE SECURED WITH A GUY WIRE WITH * A TURNBUCKLE SECURED TO OTHER GUY STAKES OR DUG BELL STAKES.
 - * THE GUY WIRES SHALL INSTALLED PER THE TREE PLANTING DETAIL. A PIECE OF RUBBER HOSE OR EQUIVALENT SHALL COVER THE GUY WIRE WHERE IT WRAPS AROUND THE SAPLING'S TRUNK.
 - * THE GUY WIRE SHALL REMAIN LOOSE UNLESS DURING SPRING INSPECTION THE TREES ARE LEANING IN A UNHEALTHY AND/OR UNSIGHTLY WAY, THE GUY-WIRES AND TURNBUCKLES SHALL BE TIGHTENED. IF INSTALLED THE GUY WIRE STABILIZATION SHALL BE REMOVED FROM THE TREE AFTER (3) YEARS.
2. FALL CLEANUP SHALL OCCUR BETWEEN SEPTEMBER 15TH AND NOVEMBER 15TH OR TO COINCIDE WITH LEAF DROP.

MULCHING:

- * A COMMERCIAL UN-DYED BARK MULCH SHALL BE APPLIED TO ALL LANDSCAPING BEDS.
- * A MINIMUM OF 3" OF PINE OR HEMLOCK MULCH SHALL BE APPLIED TO ALL BEDS.
- * MULCHING SHOULD BE DONE IN A WIDE BAND, APPROXIMATELY THREE (3) TIMES THE DIAMETER OF THE ROOTBALL OF TREES OR SHRUBS, AND NO MORE THAN A 4" DEPTH, TAPERING TO BUT NOT TOUCHING THE TRUNK. CARE SHALL BE TAKEN TO AVOID 'MOUNDING' MULCH UP AGAINST TREE TRUNKS.
- * MULCH SHALL BE REAPPLIED TO BEDS ANNUALLY, DURING SPRING INSPECTIONS.

WATERING:

- FOR NEW INSTALLATION OF TREES, AND SHRUBS WATERING SHALL OCCUR AT A MINIMUM OF TWO (2) TIMES A DAY FOR THE FIRST TWO (2) MONTHS, ONCE IN THE EARLY MORNING AND THEN THE OTHER IN THE LATE AFTERNOON. IF DURING DROUGHT CONDITIONS, THE AMOUNT OF WATERING MAY BE EXTENDED TO UP TO THREE YEARS. ESTABLISHED LAWNS SHALL BE WATERED SO THAT IT RECEIVES AN INCH (1") OF WATER EVERY WEEK. ESTABLISHED TREES AND SHRUBS SHALL BE WATERED SO THAT THEY RECEIVE THREE AND A HALF INCHES (3 1/2") OF WATER A MONTH. AN IRRIGATION SYSTEM IS NOT PROPOSED FOR THIS SITE.
- FOR EXISTING LAWN HAS BEEN SPECIFIED TO TOLERATE DROUGHT.
- FOR WATERING NEWLY SEEDED AREAS, WATER SO THAT THE SOIL IS WET TO A DEPTH OF 4". FOR THE FIRST TWO WEEKS, WATER TWICE A DAY, ONCE IN THE EARLY MORNING AND THEN THE OTHER IN THE LATE AFTERNOON. WATER UNTIL THE SOIL IS DAMP FOR THE FIRST INCH. CONTINUE TO WATER UNTIL THE GRASS GERMINATES. IF THE SEED DOES NOT GERMINATE WITHIN FIFTEEN DAYS, RE-SEW. ONCE THE GRASS HAS GERMINATED, CUT THE WATERING BACK TO ONCE A DAY. WEED THE NEWLY PLANTED AREAS AS NECESSARY.

PESTICIDES:

THE TERM PESTICIDES INCLUDES INSECTICIDES, HERBICIDES AND FUNGICIDES. PESTICIDE USE WILL BE MINIMIZED THROUGH SELECTION OF SPECIES AND VARIETIES THAT ARE INSECT AND DISEASE RESISTANT. PESTICIDES ARE TO BE USED SECONDARY TO THE IPM PROGRAM, ONLY AS NECESSARY, AND ACCORDING TO "UNASS EXTENSION MANAGEMENT GUIDE FOR INSECTS, DISEASES, AND WEEDS OF TREES AND SHRUBS IN NEW ENGLAND", CURRENT EDITION AND THE FOLLOWING GUIDELINES:

1. INVENTORY:

- * PESTICIDES WITH A LOW LEACHING POTENTIAL (PLP) INDEX. PLP INDICES ARE BASED ON THE SOIL RETENTION, PERSISTENCE, RATE OF APPLICATION AND PERCENT PESTICIDE REACHING THE GROUND.
- * STORE PESTICIDES ONLY IN ORIGINAL CONTAINERS.
- * KEEP CONTAINERS CLOSED TIGHTLY; MONITOR CONTAINERS FOR DAMAGE AND/OR LEAKS.
- * STORE LIKE PESTICIDES TOGETHER.
- * STORE FLAMMABLE PESTICIDES SEPARATELY.
- * MAINTAIN AN UP-TO-DATE INVENTORY OF PESTICIDES.

2. APPLICATION & SAFETY:

- * COMPLY WITH EMERGENCY PLANNING AND RIGHT-TO-KNOW REGULATIONS.
- * ENSURE APPLICATION IS BY INDIVIDUALS TRAINED IN PROPERTY APPLICATION TECHNIQUES AND ACCORDING TO LABEL DIRECTIONS. NOTE GROUNDWATER ADVISORIES AND OTHER SAFETY ADVISORIES. THE LABEL IS A LEGAL DOCUMENT.
- * SPOT TREAT WHENEVER POSSIBLE.
- * DETERMINE THE SIZE OF THE AREA OF APPLICATION AND MIX ONLY THE QUANTITY OF PESTICIDE NEEDED IN ORDER TO SAVE MONEY, AVOID DISPOSAL AND PROTECT PLANTS.
- * MIX THE PESTICIDE AND LOAD THE SPREADER OR SPRAYER CAREFULLY TO AVOID SPILLS. MIX IN AREAS WHERE SPILLS MAY BE SAFELY CONTAINED.
- * FILL SPRAY TANKS AWAY FROM WELLS AND/OR WATERBODIES.
- * RECHECK CALIBRATION OF THE SPREADER OR SPRAYER BEFORE APPLICATION.
- * APPLY RINSATE TO A LABELED SITE AT NOT MORE THAN LABELED RATES OR SAVE RINSATE AND USE IT TO MAKE UP WATER FOR SIMILAR APPLICATIONS. DO NOT RELEASE RINSATE IN UNCONTAINED AREAS.
- * TRIPLE-RINSE EMPTY CONTAINERS AND PUNCTURE, CRUSH AND RECYCLE THEM, IF POSSIBLE, OR DISPOSE AT LANDFILL.

RODENT CONTROL:

DESIGN PREVENTATIVE MEASURES:

- * SELECTION OF PLANTS AND TREES WILL BE MADE WITH THE CONSIDERATION OF SEED AND FRUIT AND SHALL BE KEPT AT A MINIMUM TO AVOID SUPPORT OF INSECTS, RODENTS AND UNDESIRABLE BIRDS.
- * ALL DENSELY GROWING PLANTS WILL BE SEPARATED FROM EACH OTHER AND THE BUILDING AT A CONSIDERABLE DISTANCE TO REDUCE RODENT HARBORAGE AND PASSAGE.

OPERATIONAL PREVENTATIVE MEASURES:

- * INSPECTIONS OF THE LAWN WILL OCCUR DURING WEEKLY SCHEDULED MOWING TO SCOOT FOR PEST ACTIVITY.
- * IF APPARENT PEST ACTIVITY IS FOUND, CAUSE OF THE ISSUE WILL BE IDENTIFIED AND APPROPRIATE CONTROL MEASURES WILL BE TAKEN TO CORRECT ISSUES.
- * PROPERTY WILL BE INSPECTED REGULARLY TO AVOID THE ACCUMULATION OF MISCELLANEOUS ARTICLES TO ELIMINATE RODENT HARBORAGE.
- * TREES LOCATED NEAR THE BUILDING WILL BE PRUNED ACCORDINGLY TO MAINTAIN AN ADEQUATE CLEARANCE TO AVOID PEST ACCESS.
- * ALL WASTE MATERIALS WILL BE STORED IN A SECURE CONTAINER AT JUSTIFIABLE DISTANCE FROM THE BUILDING AND DISCARDED IN ACCORDANCE WITH WEEKLY SCHEDULED PICKUPS.

CASES THAT DO NOT WARRANT EMERGENCY TREATMENT

-PRIOR TO APPLYING CHEMICAL PESTICIDES OR BAITS, ALTERNATIVE PEST CONTROL METHODS WILL BE USED IN 100% OF CASES. IF ALTERNATIVE METHODS FAIL, LEAST TOXIC PESTICIDES WILL BE USED PRIOR TO RESORTING TO THE USE OF NON-LEAST TOXIC PESTICIDES OR BAITS IN 100% OF CASES

CASES THAT DO WARRANT EMERGENCY TREATMENT OR USE OF NON-LEAST TOXIC PESTICIDES -IN 100% OF NON-LEAST TOXIC PESTICIDE APPLICATIONS, OCCUPANTS WILL RECEIVE NOTIFICATION AND BE NOTIFIED TO THE NOTIFICATION PROCEDURES DESCRIBED

PROPERTY MANAGER RESPONSIBILITIES:

- * ENSURING THAT THIS PLAN IS EXECUTED
- * ENSURING THAT THE CONTRACTED IPM VENDOR IS FULLY TRAINED ON THIS PLAN AND ADHERES TO THE PLAN PROCEDURES
- * COORDINATING SITE VISITS BY THE VENDOR FOR REGULAR INSPECTIONS AND AS NEEDED FOR IMPLEMENTATION OF PEST CONTROLS
- * OVERSEEING WORK PERFORMED BY THE VENDOR
- * APPROVING THE USE OF PESTICIDES WHEN THEY ARE NECESSARY
- * PROVIDING PROPER NOTIFICATION TO OCCUPANTS WHEN NON-LEAST TOXIC PESTICIDES ARE APPLIED
- * ENSURING TENANT CONTRACTS ARE AWARE OF THE PROCEDURES IN THIS PLAN
- * EVALUATING PERFORMANCE AND MAKING UPDATES TO THE PLAN AS NECESSARY

PEST CONTROL VENDOR RESPONSIBILITIES:

- * ADHERING TO THE PROCEDURES OUTLINED IN THIS PLAN
- * IDENTIFYING PEST DURING SITE VISITS AND INSPECTIONS
- * REPORTING THE RESULTS OF THE SITE VISITS AND INSPECTIONS TO THE OVERALL

INVASIVE SPECIES

IF INVASIVE SPECIES HAVE ESTABLISHED THEMSELVES IN ONE OR MORE OF THE LANDSCAPE AND LAWNS AREAS:
PULL THE SEEDLINGS AND SMALL OR SHALLOW-ROOTED PLANTS WHEN SOIL IS MOIST. DIG OUT LARGER PLANTS, INCLUDING THE ROOT SYSTEMS. USE A FORKED SPADE OR WEED WRENCH FOR TREES OR SHRUBS DEAD/DEAD TO PREVENT SPREAD OF SEEDS OF INVASIVE PLANTS. CUT OFF SEEDS OR BRUIITS BEFORE THEY RIPEN, BAG, AND BURN OR SEND TO A LANDFILL.
MOW OR CUT AT LEAST 4 TIMES A SEASON TO DEplete PLANTS' STORE OF NUTRIENTS AND CARBOHYDRATES, REDUCE SEED FORMATION, AND KILL OR MINIMIZE SURVIVAL OF PLANTS, IF NECESSARY, REPEAT EACH YEAR.

"BITTERSWEET

FOR YOUNG VINES, HAND PULLING CAN WORK AND REPEATED MOWING MAY BE EFFECTIVE IN FIELDS, WHEN LARGE VINES HAVE GROWN INTO TREES, CUT THE VINES WHEN THE LEAVES AREN'T PRESENT, AND APPLY A SYSTEMIC HERBICIDE TO THE FRESHLY CUT STEM. ANY DEAD VINES THAT CANNOT EASILY REMOVED CAN BE LEFT TO DECAY ON THE TREES

CONTROLLED BURNING

IF BURNING IS REPEATED OVER SEVERAL YEARS, ALLOWS NATIVE VEGETATION TO COMPETE MORE EFFECTIVELY WITH THE INVASIVE SPECIES. THIS REQUIRES A PERMIT. SPOT TREATMENT WITH GLYPHOSATE IN LATE FALL CAN BE USED TO MAKE THIS METHOD MORE EFFECTIVE.

USE A CORN-BASED PRE-EMERGENCE HERBICIDE ON ANNUAL WEEDS IN LAWNS, SPOT TREAT WITH BROAD-LEAF WEEDKILLER.
CUT DOWN THE TREE, GRIND OUT THE STUMP, OR CLIP OFF RE-GROWTH.
GRIND TREE: CUT THROUGH THE BARK AND GROWING LAYER (CAMBIUM) ALL AROUND THE TRUNK, ABOUT 6" ABOVE THE GROUND. GIRDLING IS MOST EFFECTIVE IN SPRING WHEN THE SAP IS RISING, AND FROM MIDDLE TO LATE SUMMER WHEN THE TREE IS SENDING DOWN FOOD TO THE ROOTS. CLIP OFF SUCKER SPROUTS.
FRILL USING A MACHETE, HATCHET OR SIMILAR DEVICE, HACK SCARS (SEVERAL HOLES IN LARGER TREES) DOWNWARD INTO THE CAMBIUM LAYER, AND SQUIRT IN GLYPHOSATE (OR TRICLOPYR IF RECOMMENDED IN TEXT ABOVE). FOLLOW LABEL DIRECTIONS FOR INJECTION AND FRILL APPLICATION. THIS IS MOST EFFECTIVE FROM MIDDLE TO LATE SUMMER.
CLIP OFF SUCKER SPROUTS OR TREAT WITH GLYPHOSATE.
CUT STEM / CUT STUMP WITH GLYPHOSATE (OR TRICLOPYR IF SPECIFIED ABOVE).
FOLLOW LABEL DIRECTIONS FOR CUT STUMP APPLICATION. CLIP OFF SUCKER SPROUTS OR PAINT WITH GLYPHOSATE. SEE NOTE ON HERBICIDES

FOLIAR SPRAY WITH GLYPHOSATE HERBICIDE (SEE NOTE ON HERBICIDES).

USE A BACKPACK OR GARDEN SPRAYER OR MIST BLOWER, FOLLOWING LABEL DIRECTIONS. AVOID OVERSPRAY AND/OR DRIPPING ONTO NON-TARGET PLANTS. BECAUSE GLYPHOSATE KILLS MOST PLANTS EXCEPT MOST GRASSES, IT IS BEST TO WAXY OR GRASS-LIKE FOLIAGE. USE ADDITIONAL STICKER-SPREADER, DECIDUOUS TREES, SHRUBS, AND PERENNIALS MOVE NUTRIENTS DOWN TO THE ROOTS IN LATE SUMMER. GLYPHOSATE IS PARTICULARLY EFFECTIVE AT THIS TIME AND IN WET PLANTS HAVE JUST GONE OUT OF FLOWERING. SEVERAL INVASIVE SPECIES RETAIN THEIR FOLIAGE AFTER NATIVE PLANTS HAVE LOST THEIRS, AND RESUME GROWTH EARLIER IN SPRING THAN MOST NATIVES. THIS ALLOWS YOU TO TREAT THEM WITHOUT HARMING THE NATIVES. HOWEVER, THE PLANT MUST BE ACTIVELY GROWING FOR THE HERBICIDE TO WORK. RETREATMENTS MAY BE NECESSARY THE FOLLOWING YEAR IF SUCKERING OCCURS OR THE PLANT HASN'T BEEN ENTIRELY KILLED.

SEASONAL CLEANUP

1. SPRING CLEANUP:
 - * REMOVE ALL SAND AND DEBRIS FROM LAWN AREAS.
 - * RAKE OR HATCH OUT ALL WINTER DIRT OUT FROM THE LAWN.
 - * PRUNE ALL WINTER DAMAGE FROM SHRUBS AND TREES AND ANY OTHER OTHER GROWTH TO HELP KEEP PLANT SHAPE.
 - * EDGE AND MULCH ALL BEDS.
 - * ALL TURF AREAS SHALL BE LINED, FERTILIZED-IF NEEDED APPLY PRE-EMERGENT CRABGRASS CONTROL.
2. CRABGRASS CONTROL:
 - * IF NEEDED APPLY ANY INSECTICIDE.
 - * ALL PARKING AREAS SHALL BE SWEEP.
 - * CATCHBASINS SHALL BE CLEANED OUT.
 - * INSPECT DRAINAGE BASIN, CLEAN IF NEEDED. SEE EROSION & SEDIMENTATION PLAN.
3. FALL CLEANUP:
 - * REMOVE ALL LEAVES AND DEBRIS FROM LAWNS AND PLANT BEDS.
 - * LEAF MULCHING WILL OCCUR WHEN DEEMED APPROPRIATE.
 - * IN THE EVENT OF EXCESSIVE LEAF ACCUMULATION LEAVES WILL BE SHREDDED AND COMPOSTED OFFSITE.
 - * APPLY INSECT CONTROL IF NEEDED.
 - * RESEED LAWN AREAS IN SEPTEMBER AS NEEDED.
 - * IRRIGATION SHUT DOWN TO INCLUDE BLOWING ALL LINES FREE OF WATER.
 - * SWEEP ALL WALKWAYS, PARKING LOTS, AND DRIVEWAYS.
 - * INSPECT ALL CATCH BASINS AND CLEAN IF NEEDED.
 - * INSPECT ALL RAIN LEADERS AND CLEAN OUT IF NEEDED.

LANDSCAPE MAINTENANCE:

VEGETATED AREAS IN THE LANDSCAPE WILL REDUCE EROSION, ENCOURAGE INFILTRATION OF RAINWATER, AND KEEP STORMWATER CLEAN. IT IS IMPORTANT TO MAINTAIN THE VEGETATED AREAS OF THE SITE.
-PROPER MOWING IS ONE OF THE MOST IMPORTANT WAYS TO MAINTAIN A HEALTHY LAWN. MOW ONLY WHEN THE GRASS IS DRY TO GET A CLEAN CUT AND MINIMIZE THE SPREAD OF DISEASE. MOW GRASS TO A HEIGHT OF 3". MOW FREQUENTLY, CUTTING NO MORE THAN 1/3 OF THE HEIGHT OF THE GRASS AT A TIME. SHARPEN YOUR MOWER BLADES AFTER EVERY 10 HOURS OF MOWING.
-GRASS CLIPPINGS CONTAIN HIGH AMOUNTS OF NITROGEN, A KEY INGREDIENT IN FERTILIZER. MAKE ALL ATTEMPTS TO USE YOUR GRASS CLIPPINGS BY LEAVING THEM ON YOUR LAWN. IF THE GRASS CLIPPINGS ARE NOT USED, DO NOT DISPOSE OF THEM NEAR ANY WETLANDS AND OR WATERBODIES AND DESIGNATE A PLACE TO COMPOST THEM IN AN UPLAND AREA.
-IF YOUR LAWN AREAS AND PLANT MATERIAL DEMAND FERTILIZER THEN USE ORGANIC OR SLOW RELEASE FERTILIZERS. FERTILIZE IN THE FALL, BUT IN COORDINATION WITH WEATHER PATTERNS.
-THE BEST DEFENSE AGAINST PESTS WITHIN THE GRASS IS TO USE AN INTEGRATED PEST MANAGEMENT SYSTEM WHICH CONSISTS OF BENEFICIAL INSECTS(LADY BUGS, SPIDERS,CERTAIN NETEMETOES AND BACTERIA.)
-MINIMIZE WATERING THE LAWN AREAS. IF NEEDED WATER IN THE EARLY MORNING AND WATER DEEPLY AND INFREQUENTLY.
-IF NEEDED, THE TREES AND SHRUBS SHALL BE PRUNED BUT AT A MINIMUM OF ONCE A YEAR.

IMPERVIOUS SURFACE MAINTENANCE:

THE PARKING LOTS SHALL BE SWEEP AT A MINIMUM OF TWICE A YEAR. ACCUMULATED LEAVES AND GRASS CLIPPINGS SHALL ALSO BE REMOVED FROM THE IMPERVIOUS SURFACES AT A MINIMUM OF TWICE A YEAR.

LONG TERM POLLUTION PREVENTION PLAN:

A LONG-TERM POLLUTION PREVENTION PLAN IS AN IMPORTANT ELEMENT OF THE ROUTINE OPERATION AND MAINTENANCE OF AN INDUSTRIAL FACILITY THAT IS DESIGNED TO REDUCE OR ELIMINATE THE CREATION OF POLLUTANTS AT THE SOURCE, IN ADDITION TO THE OBVIOUS ENVIRONMENTAL BENEFITS OF PROTECTING THE ENVIRONMENT FROM THE CREATION OF THE FACILITY, MAINTAINING A LONG-TERM POLLUTION PREVENTION PLAN WILL PROVIDE FOR A HEALTHIER AND SAFER WORK ENVIRONMENT, THE FOLLOWING LONG TERM POLLUTION PREVENTION PRACTICES WILL BE EMPLOYED AT THE FACILITY.

* GOOD HOUSEKEEPING PRACTICES:

MAINTAINING A CLEAN PROPERTY WILL PREVENT OR REDUCE THE AMOUNT OF POLLUTANTS IN THE STORMWATER RUNOFF DISCHARGING FROM THE SITE. THIS WILL BE ACHIEVED THROUGH PERIODIC PARKING LOT SWEEPING, AT THE OWNERS DISCRETION, AND THROUGH CATCH BASIN AND CURB INFILTRATION BASIN CLEANING AS DETAILED WITHIN THE SITE STORMWATER OPERATION AND MAINTENANCE PLAN.

- * PROVISIONS FOR STORING MATERIALS AND WASTE PRODUCTS INSIDE OR UNDER COVER. MATERIALS WILL BE STORED IN THEIR APPROPRIATE CONTAINERS AND SHALL BE STORED UNDER COVER OR IN A SECURE ENCLOSURE TO REDUCE THE RISK OF SPILLS. WASTE PRODUCTS WILL BE PLACED IN PROPER BINS UNTIL EMPTIED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY.

* VEHICLE WASHING CONTROLS:

VEHICLE WASHING IS NOT ANTICIPATED TO OCCUR AT THIS SITE, HOWEVER IF WASHING IS NEEDED IT SHALL BE CONDUCTED IN PAVEMENT AREAS WHERE THE WASH WATER WILL BE COLLECTED THROUGH CATCH BASINS AND WATER QUALITY UNITS PRIOR TO DISCHARGING TO THE ONSITE INFILTRATION BASINS.

- * REQUIREMENTS FOR ROUTINE INSPECTIONS AND MAINTENANCE OF STORMWATER BMPs. REFER TO THE MAINTENANCE SCHEDULE PROVIDED IN THE STORMWATER OPERATION AND MAINTENANCE PLAN.

* SPILL PREVENTION AND RESPONSE PLANS:

MATERIALS SHALL BE STORED IN THEIR PROPER ORIGINAL CONTAINER IN A SECURE LOCATION. NO MIXING OF MATERIALS SHALL OCCUR UNLESS RECOMMENDED BY THE MANUFACTURER. THE MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHOULD BE STRICTLY ADHERED TO. IN THE CASE OF A SPILL, THE MANUFACTURER'S METHOD FOR CLEANUP SHALL BE FOLLOWED. THE AREA SHALL BE KEPT VENTILATED AND PERSONNEL HANDLING THE CLEANUP SHALL WEAR PROPER PROTECTIVE CLOTHING. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE AND/OR LOCAL AUTHORITY IN ACCORDANCE WITH LOCAL AND/OR STATE REGULATIONS.

- * PROVISIONS FOR MAINTENANCE OF LAWNS, GARDENS, AND OTHER LANDSCAPED AREAS. ONLY THE STORM WATER COLLECTION SYSTEM AS NEEDED. THESE SERVICES SHALL BE PROVIDED BY A THIRD-PARTY LANDSCAPE PROFESSIONAL.

- * REQUIREMENTS FOR STORAGE AND USE OF FERTILIZERS, HERBICIDES, AND PESTICIDES. FERTILIZERS, HERBICIDES AND PESTICIDES SHALL BE STORED IN THEIR APPROPRIATE CONTAINERS IN A SECURE LOCATION AS DESCRIBED ABOVE. PROTECTIVE CLOTHING SHALL BE USED WHEN HANDLING AND QUANTITIES SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

- * PET WASTE MANAGEMENT PROVISIONS:
 - * PET WASTE MANAGEMENT IS NOT APPLICABLE AT THIS SITE.

- * PROVISIONS FOR OPERATION AND MANAGEMENT OF SEPTIC SYSTEMS:
 - * SEPTIC SYSTEMS ARE NOT APPLICABLE AT THIS SITE.

- * PROVISIONS FOR SOLID WASTE MANAGEMENT:
 - * SOLID WASTE MATERIAL SHALL BE PLACED IN OUTDOOR SECURE CONTAINERS UNTIL EMPTIED BY A LICENSED WASTE MANAGEMENT COMPANY.

- * SNOW DISPOSAL AND FLOWING PLANS RELATIVE TO WETLAND RESOURCE AREAS:
 - * NO RESOURCE AREAS ARE LOCATED ON THE PROPERTY

- * STREET SWEEPING SCHEDULES:
 - * STREET SWEEPING WILL OCCUR AS NEEDED AT THE DISCRETION OF THE OWNER.

- * PROVISIONS FOR PREVENTION OF ILLICIT DISCHARGES TO THE STORMWATER MANAGEMENT SYSTEM:
 - * THE STORMWATER MANAGEMENT SYSTEM ASSOCIATED WITH THE DEVELOPMENT HAS BEEN DESIGNED SUCH THAT PRIOR TO STORM WATER RUNOFF DISCHARGING FROM THE SITE, IT IS TREATED THROUGH A SERIES OF BEST MANAGEMENT PRACTICES. TO THE ENGINEER'S KNOWLEDGE, THERE ARE NO KNOWN OR DESIGNED NON-STORM WATER DISCHARGES THAT ARE OR WILL BE CONNECTED TO THE STORM WATER COLLECTION SYSTEM THAT WOULD CONVEY POLLUTANTS DIRECTLY TO GROUNDWATER OR SURFACE WATERS.

- * DOCUMENTATION THAT STORMWATER BMPs ARE DESIGNED TO PROVIDE FOR SHUTDOWN AND CONTAINMENT IN THE EVENT OF A SPILL OR DISCHARGES TO OR NEAR CRITICAL AREAS. ADJACENT WETLANDS AND FLOODPLAIN AREAS.
 - * WATER QUALITY UNITS ARE DESIGN TO CAPTURE AND STORE OLDS AND FLOATABLE DEBRIS. ALL CATCH BASINS SHALL BE EQUIPPED WITH HOODS TO PREVENT OLDS AND FLOATABLES FROM DISCHARGING.

- * TRAINING FOR STAFF OR PERSONNEL INVOLVED WITH THE IMPLEMENTING LONG TERM POLLUTION PREVENTION PLAN:

ALL PERSONNEL RESPONSIBLE FOR IMPLEMENTING THE LONG TERM POLLUTION PREVENTION PLAN AND STAFF WILL BE TRAINED IN ACCORDANCE WITH COMPANY POLICY

REGULAR MAINTENANCE FOR POROUS ASPHALT

- * STOCKPILING OF MATERIALS ON POROUS ASPHALT IS PROHIBITED
- * REMOVAL OF LOOSE DEBRIS SUCH AS LEAVES OR TRASH SHOULD OCCUR WHENEVER PRESENT. REMOVAL MAY BE DONE SO BY USING A LEAVE BLOWER OR BROOM
- * ASPHALT SHALL BE CLEANED AND VACUUMED USING A VACUUM SWEEPER 1-2 TIMES PER YEAR.
- * IN THE EVENT THAT STANDING WATER REMAINS ON THE SURFACE OF A THE PAVEMENT AFTER A PRECIPITATION EVENT WITHIN 30 MINUTES, ASPHALT SHOULD BE CLEANED USING A POWER WASHER OR COMPRESSED AIR BLOWER AT AN ANGLE OF 30 DEGREES TO WORK. RETREATMENTS MAY BE EFFECTIVE, PARTICULARLY IN COMBINATION WITH VACUUM OR VACUUM SWEEPER.

STORMWATER MANAGEMENT OPERATION & MAINTENANCE PLAN:

THE SITE CONTRACTOR WILL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER COLLECTION SYSTEM INCLUDING DEEP SUMP CATCH BASINS, WATER QUALITY UNITS, UNDERGROUND INFILTRATION BASIN, TREE BOX FILTERS AND A RAIN GARDEN DURING CONSTRUCTION. AFTER CONSTRUCTION, THE PROPERTY OWNER IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE PROPOSED STORMWATER COLLECTION SYSTEM. THE FOLLOWING LONG-TERM OPERATION AND MAINTENANCE PLAN FOR THE PROJECT IS PROPOSED IN ACCORDANCE WITH DEP STORMWATER MANAGEMENT STANDARDS 8.0. 9 TO ENSURE THAT THE STORMWATER COLLECTION AND TREATMENT SYSTEM OPERATES IN ACCORDANCE WITH THE MADEP STORMWATER MANAGEMENT POLICY.

SCHEDULE FOR INSPECTION AND MAINTENANCE AFTER CONSTRUCTION:

STORMWATER MANAGEMENT SYSTEM OWNER/OPERATOR

- * THE PROPERTY OWNER WILL BE THE OWNER AND OPERATOR OF THE PROPOSED STORMWATER COLLECTION SYSTEM ON SITE.
- * IF THE PROPERTY IS SOLD, A COPY OF THIS OPERATION AND MAINTENANCE PLAN WILL BE TRANSFERRED TO THE NEW PROPERTY OWNERS.

DEEP SUMP CATCH BASINS

- * INLETS SHOULD BE CLEANED A MINIMUM OF FOUR TIMES PER YEAR AND INSPECTED MONTHLY.
- * ALL SEDIMENTS AND HYDROCARBONS SHOULD BE PROPERLY HANDLED AND DISPOSED, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.
- * STRUCTURES SHOULD BE INSPECTED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

SEDIMENT FOREBAY

- * THE FOREBAY WILL BE CLEANED FOUR TIMES PER YEAR AND INSPECTED MONTHLY.
- * ALL SEDIMENTS WILL BE PROPERLY HANDLED AND DISPOSED OF OFF-SITE, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES AND REGULATIONS.

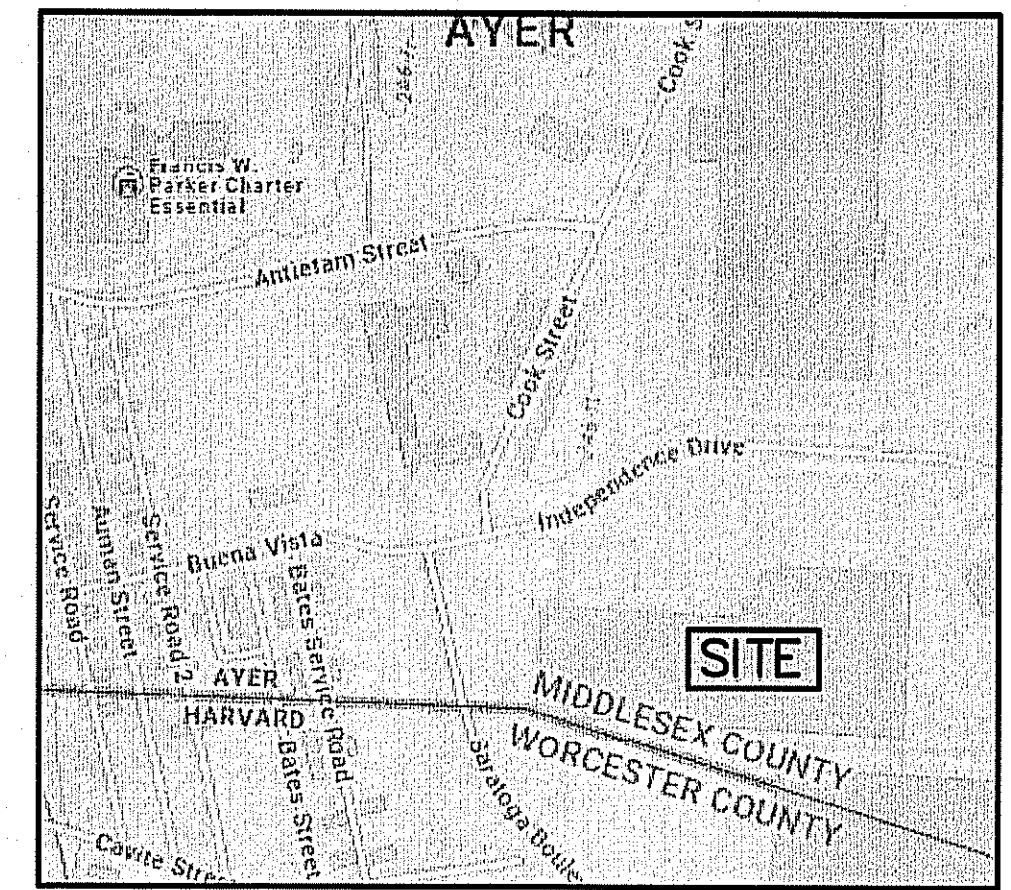
WATER QUALITY UNIT

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

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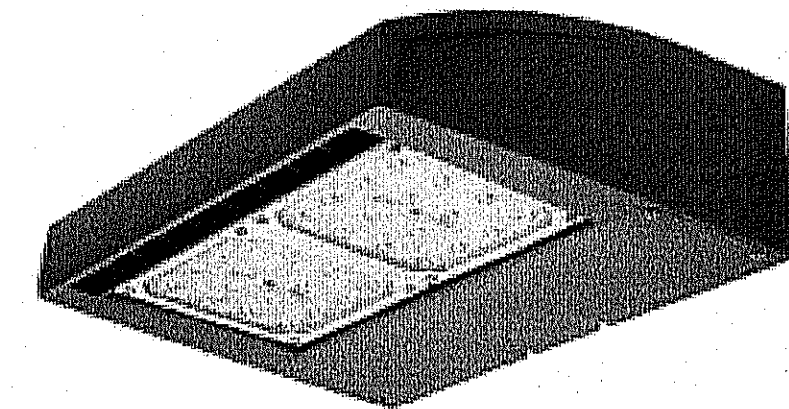
26-13-1300
O'REILLY AUTO ENTERPRISES, LLC
(PK 63222-533, PL 714 OF 2000)
#15 INDEPENDENCE DRIVE



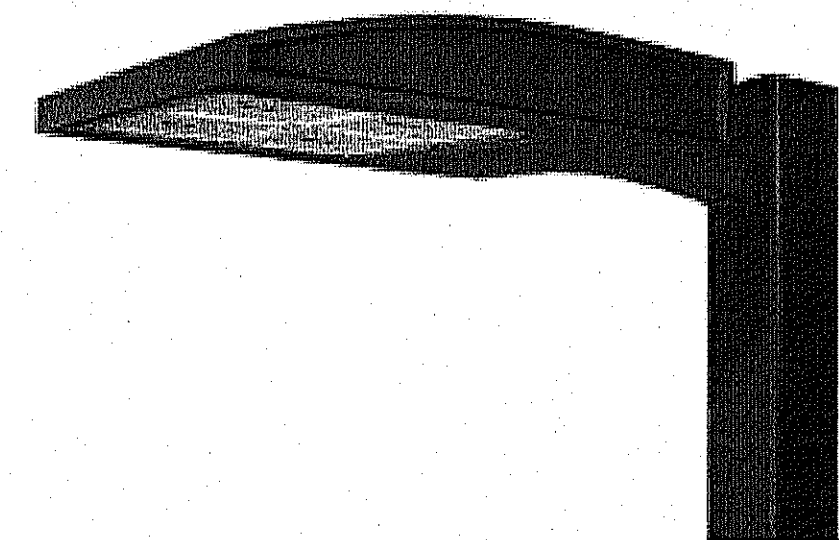
LOCUS PLAN
1"=500 FT.±

GENERAL NOTES:

- EXISTING CONDITIONS INFORMATION SHOWN IS FROM AN ON-THE-GROUND SURVEY COMPLETED BY TAUPER LAND SURVEY, 710 MAIN STREET OXFORD, MA 01537 IN OCTOBER 2021.
- THE LAND SHOWN HEREON IS NOT SITUATED IN THE 100-YEAR FLOOD HAZARD ZONE PER THE MASSGIS ONLINE DATA VIEW, OLIVER.
- NO WETLAND RESOURCE AREAS WERE OBSERVED WITHIN 100-FEET OF THE PROJECT SITE.
- PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHZ) IS SPECIFICALLY PROHIBITED.
- PROPOSED USE WILL NOT CAUSE PRONOUNCED, MULTIPLE PATTERNS OF NOISE OR VIBRATION NUISANCE TO, OR INTERFERE WITH ANY SENSITIVE RECEPTOR.
- A DEP AIR QUALITY PERMIT IS NOT REQUIRED.
- ALL FIXTURES TO BE BLACK AND 3000K TEMPERATURE
- ALL FIXTURES SHALL HAVE RECESSED LIGHT SOURCES NOT GREATER THAN 90° FROM THE BUILDING AND PROPERLY SHIELDED TO PREVENT OFF-SITE GLARE TO COMPLY WITH 174 CMR 3.04 & 4.04



WALL MOUNTED FIXTURE

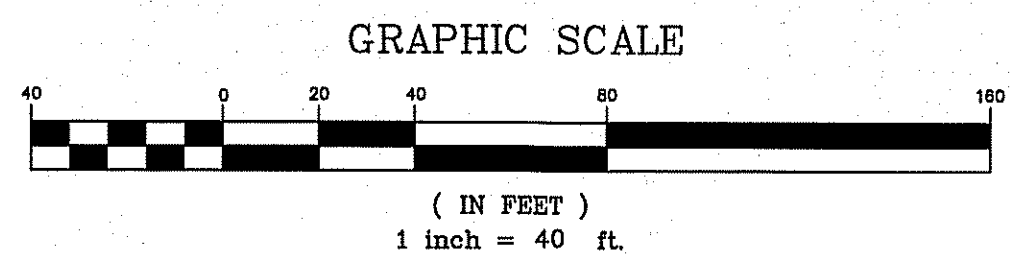


PARKING LOT FIXTURE

Luminaire Schedule							
Symbol	Qty	Label	Description	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
SL1	1	SL1	MCGRAW-EDISON: GALN-SB2C-730-U-T4W	0.900	14948	100.9	30
SL2	2	SL2	MCGRAW-EDISON: GALN-SB3C-730-U-SWQ	0.900	22729	149.1	30
W1	10	W1	STREETWORKS: GAW-SA2D-730-U-T4FT	0.900	14835	129	25
W2	2	W2	STREETWORKS: GAW-SA1B-730-U-T4FT	0.900	5592	44	25

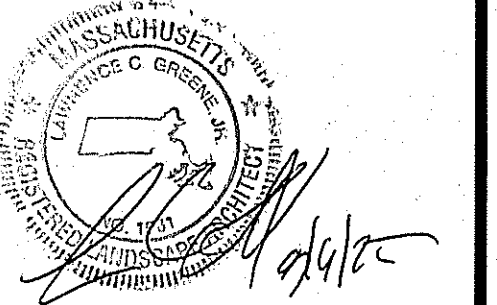
Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Fc	0.62	3.5	0.0	N/A	N/A
PARKING	Fc	1.73	3.1	0.4	4.33	7.75
REAR LOADING	Fc	1.28	3.1	0.4	3.20	7.75

6-13-300
INDUSTRIAL 66 SARATOGA BOULEVARD, LLC
(PK 70866-108, PL 436 OF 2017)
#66 SARATOGA BOULEVARD



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

1.	08/06/25	Response to Comments
No.	Date	Revision



Drawn By: JLL
Designed By: JLL
Checked By: JLL

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 334-1318 fax: (978) 840-6907
www.mccartydb.com

Project Name

Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Sheet Title

Lighting
Plan

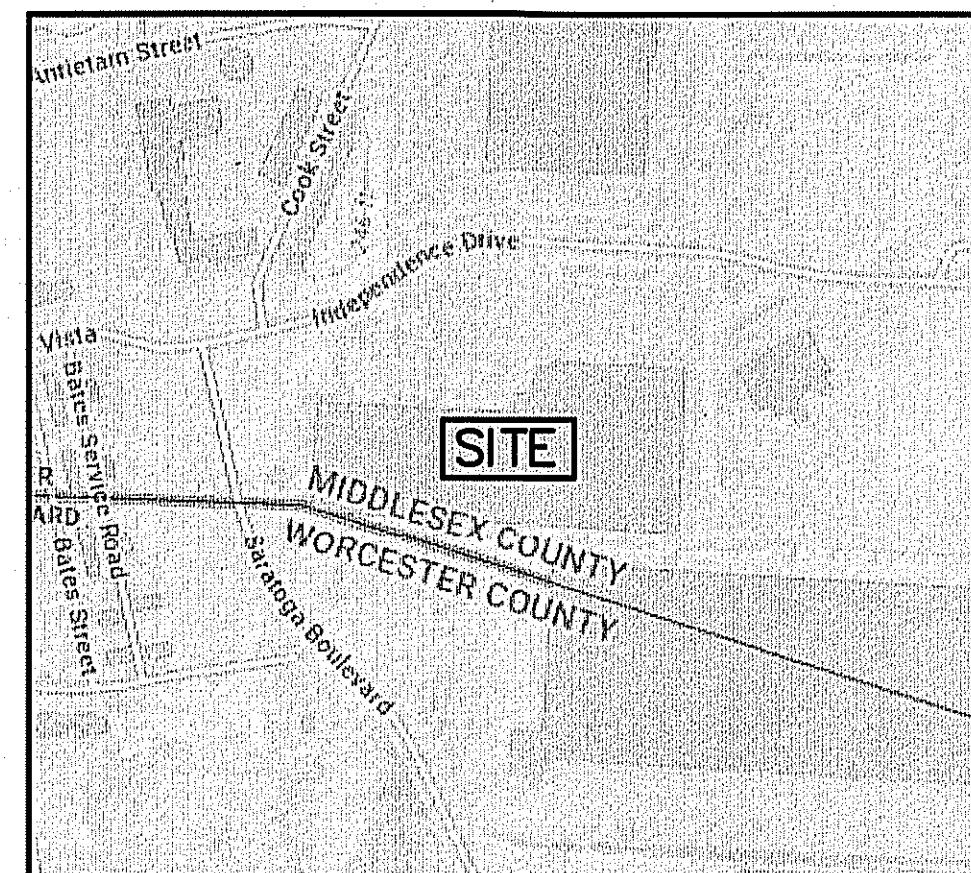
Job No: 127.01.001
File Name: 127.01.001P-LIT01
Date: July 3, 2025
Scale: 1"=40'
Sheet No: 9

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

FOR REGISTRY USE ONLY

26-13-1300
O'REILLY AUTO ENTERPRISES, LLC
(PK 63222-553, PL 714 OF 2000)
#15 INDEPENDENCE DRIVE

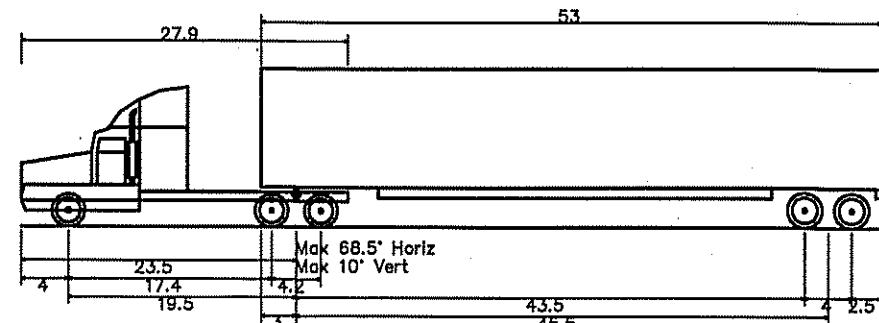


LOCUS PLAN

1"=500 FT.±

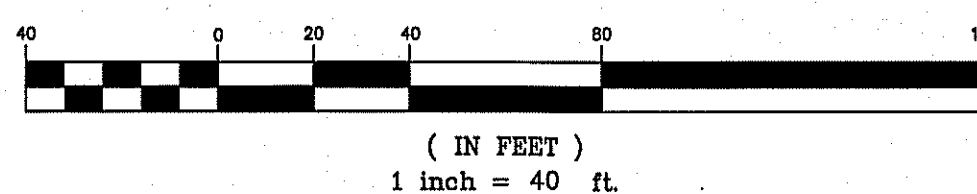
GENERAL NOTES:

- EXISTING CONDITIONS INFORMATION SHOWN IS FROM AN ON-THE-GROUND SURVEY COMPLETED BY TAUPER LAND SURVEY, 710 MAIN STREET OXFORD, MA 01537 IN MAY OF 2025.
- THE LAND SHOWN HEREON IS NOT SITUATED IN THE 100-YEAR FLOOD HAZARD ZONE PER FEMA FIRM PANEL 25017C0211F. SITE IS ZONE X AND IS TOO FAR AWAY FROM MEASURED ELEVATIONS TO INTERPRET.
- NO WETLAND RESOURCE AREAS WERE OBSERVED WITHIN 100-FOET OF THE PROJECT SITE.
- PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHz) IS SPECIFICALLY PROHIBITED.
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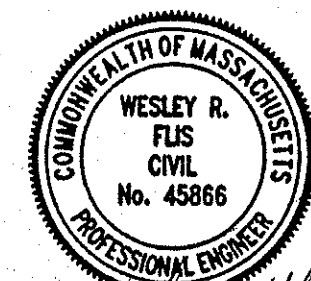
WB-67 - Interstate Semi-Trailer
Overall Length 73.50ft
Overall Width 8.50ft
Overall Body Height 13.50ft
Min Body Ground Clearance 1.33ft
Max Track Width 8.50ft
Lock-to-lock time 6.00s
Max Steering Angle (Virtual) 28.40°

GRAPHIC SCALE



APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

No.	Date	Revision
1	8/6/2025	Response to Comments



Drawn By: JLL
Designed By: JLL
Checked By: WRF

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone:(978) 534-1318 fax: (978) 840-6907
www.mccartydyb.com

Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Sheet Title

Truck Turning
Plan

Job No: 127.01.001

File Name: 127.01.001P-TRN01

Date: July 3, 2025

Scale: 1"=40'

Sheet No.

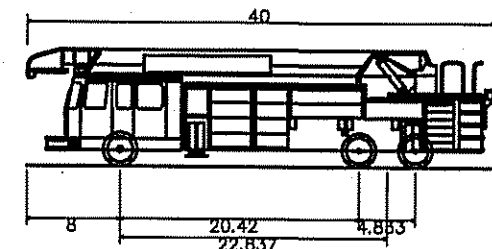
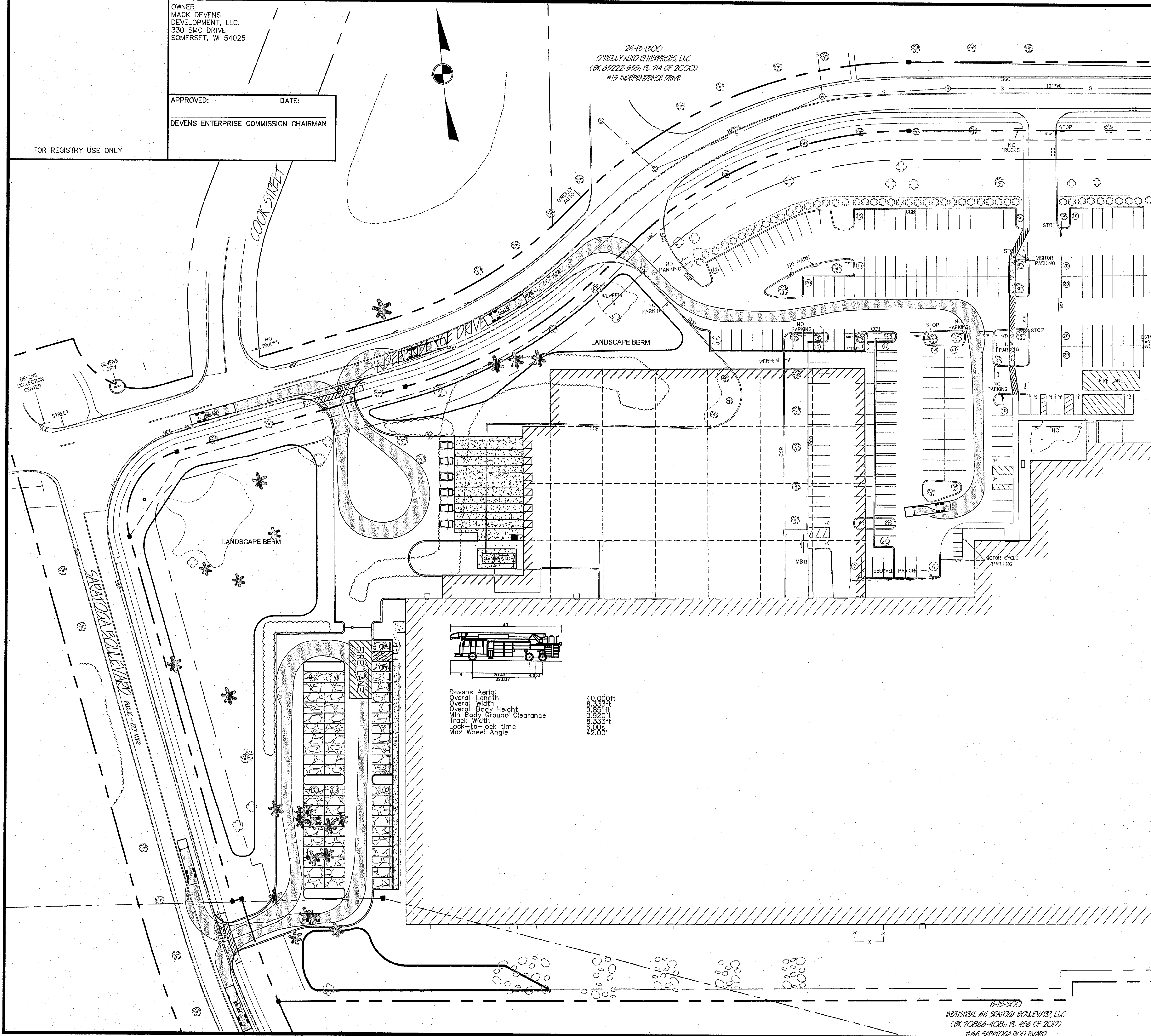
10

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

APPROVED: DATE:
DEVENS ENTERPRISE COMMISSION CHAIRMAN

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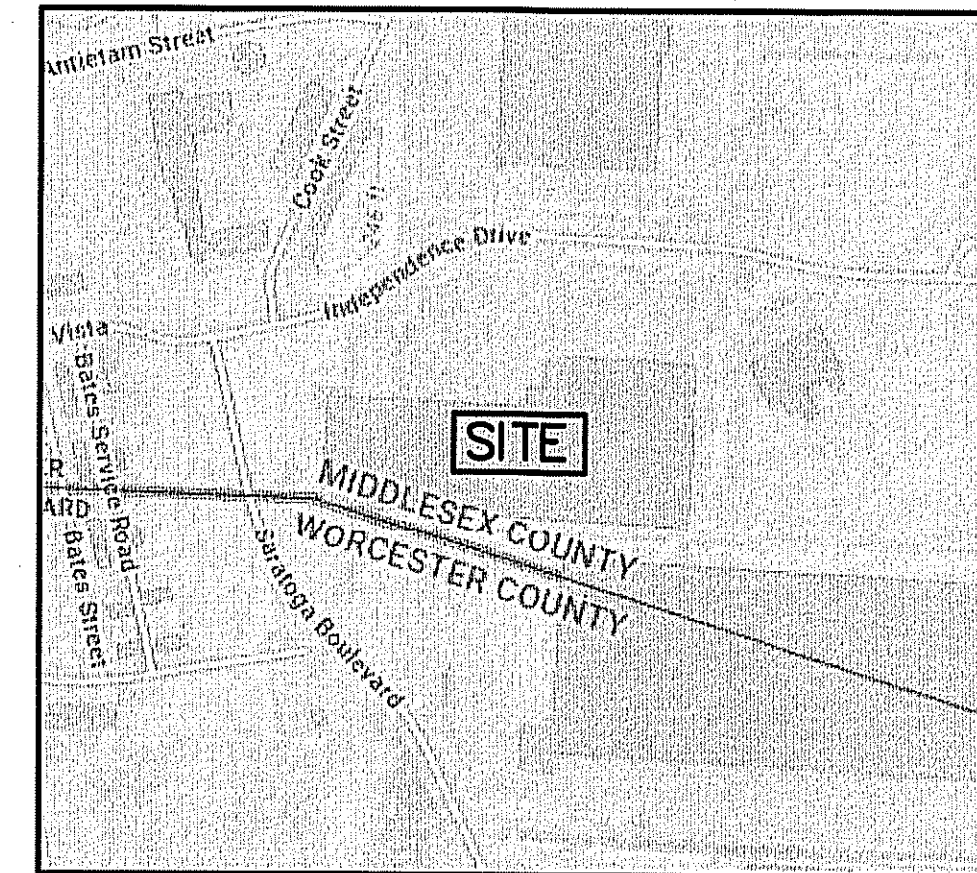
28-13-1300
O'REILLY AUTO ENTERPRISES, LLC
(PK 63222-533; PL 714 OF 2000)
#15 INDEPENDENCE DRIVE



Devens Aerial
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Max Wheel Angle

40,000ft
20'4"
11'6"
10'0"
6'0"
42'0"

28-13-300
INDUSTRIAL 66 SAPAOTOGA BOULEVARD, LLC
(PK 70866-103; PL 456 OF 2017)
#66 SAPAOTOGA BOULEVARD



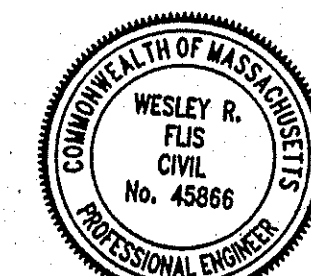
LOCUS PLAN
1"=500 FT.±

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APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

No.	Date	Response to Comments
1	8/6/2025	Response to Comments



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Designed By: JLL
Checked By: WRP

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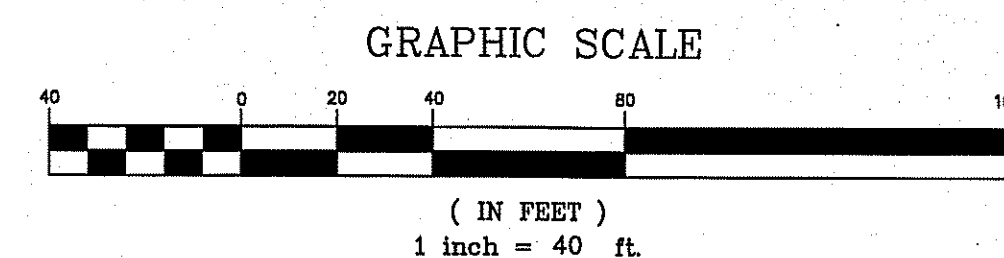
Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Sheet Title
Fire Truck
Turning Plan

Job No: 127.01.001
File Name: 127.01.001P-TRN02
Date: July 3, 2025
Scale: 1"=40'

Sheet No.

11



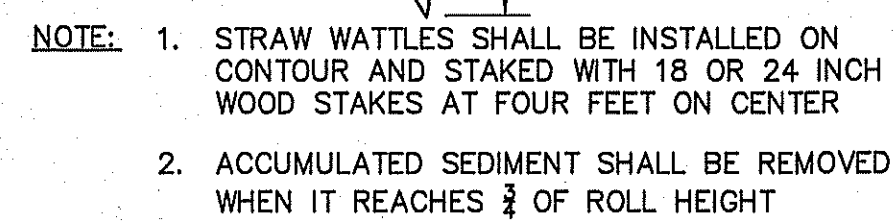
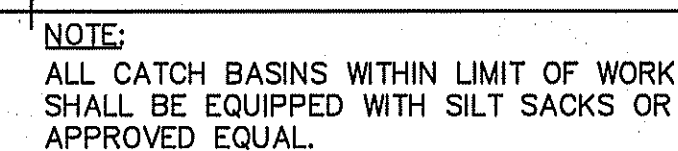


Diagram illustrating the proposed pavement structure. The structure consists of a 2"-4" CRUSHED STONE layer, a MIN. 3" CRUSHED STONE AT ENDS layer, and a COMPACTED SUBGRADE. The total width of the structure is 50' MIN. The existing road width is 12' MIN. The diagram shows the proposed pavement structure extending from the existing road edge.

THE PURPOSE OF THIS TEMPORARY BERM IS TO REMOVE MUD FROM THE TIRES OF VEHICLES LEAVING THE SITE DURING CONSTRUCTION. PROVIDE LEVEL AREA OF CRUSHED STONE 50 FEET IN FROM EDGE OF EXISTING ROAD.

N.T.S..



A perspective diagram of a rectangular catch basin. The basin has a hinged lid that is shown partially open, revealing a mesh screen inside. A strap is attached to the lid, and another strap is attached to the side of the basin. Arrows point from text labels to these components.

DUMP STRAP

PIPE POCKET TO ACCEPT UP TO 2" DIAMETER SCHEDULE 80 PIPE. PIPE IS INSTALLED TO FACILITATE THE HOISTING OF THE FILLED BAG FROM THE CATCH BASIN

INVERSION STRAPS. ONCE REMOVED FROM THE CATCH BASIN, THE BAG IS HOISTED FROM THE INVERSION STRAPS TO EMPTY THE CONTENTS TURNING THE BAG INSIDE OUT.

WHILE TRAPPING AND SEDIMENTS.

CONSTRUCTED OF HIGH STRENGTH WOVEN GEOTEXTILE FABRIC. ALL SEAMS DOUBLE STITCHED WITH HEAVY DUTY MARINE QUALITY THREADS.

NOTES:

1. PRODUCT TO BE "SILT SACK" MANUFACTURED BY REED AND GRAHM, INC. SACRAMENTO, CA, OR APPROVED EQUAL.

The diagram illustrates a trench cross-section with the following details:

- Dimensions:**
 - Depth:** 30" MIN. (indicated by a vertical dimension line on the left).
 - Spacing:** 12" MIN. (indicated by a horizontal dimension line between the first two conduits).
- Utilities (from left to right):**
 - 4" ELECTRIC CONDUIT
 - 4" ELECTRIC CONDUIT
 - 3" TELEPHONE CONDUIT
 - 2" CABLE CONDUIT
- Labels and Notes:**
 - FINISH GRADE:** Indicated by a horizontal line at the top of the trench.
 - CLEAN FILL NO STONES GREATER THAN 2"**: Note pointing to the trench area.
 - 4" SAND AROUND UTILITIES:** Note pointing to the space around the conduits.
 - BOTTOM OF TRENCH:** Indicated by a horizontal line at the base of the trench.
 - UNDISTURBED EARTH:** Note pointing to the area outside the trench on the left.
 - NOTES:**
 - COORDINATE TRENCH REQUIREMENTS WITH THE LOCAL UTILITY PROVIDER

24" X 48" FRAME & GRATE

GRANITE THROAT STONE

GRANITE TRANSITION STONE

MORTAR AND CEM. CONC. COLLAR, SEE MDPW 202.9.0

GRADE ADJUSTMENTS MADE WITH COURSES (2 MIN. OF BRICK OR PRECAST CONC. GRADE RINGS

PRECAST CONCRETE TOP SLAB AND ALL SECTIONS DESIGNED FOR H-20 LOADING

6"

12"

4"

VARIES 1'

WEEPHOLE

60" DIA.

PROVIDE "V" OPENINGS HAND PACK JOINT WITH NON-SHRINK GROUT (TYP.)

DRAIN PIPE

6" MIN. (TYP.)

6" MIN. (TYP.)

GRAVEL BORROW AS DIRECTED BY THE ENGINEER

PRECAST CONCRETE BASE SECTION

UNDISTURBED EARTH

ELIMINATOR OIL/FLOATING DEBRIS TRAP OR APPROVED EQUAL

12" MIN.

6" MIN.

6" MIN.

12"

12"

3/4" CRUSHED STONE OR GRAVEL BORROW AS DIRECTED BY THE ENGINEER

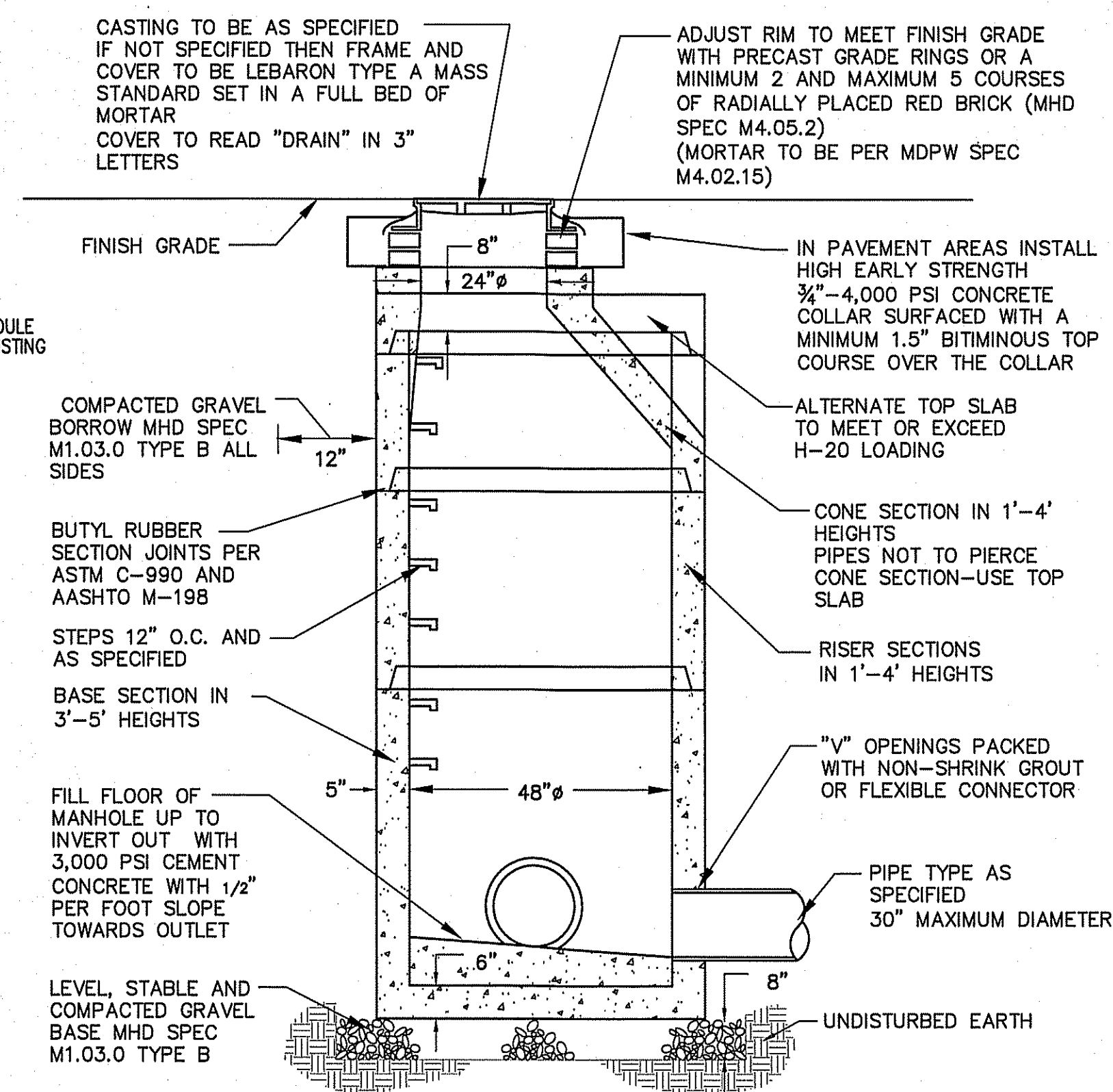
BE SECTIONS SHALL BE SEALED WITH NON-SHRINK GROUT OR BUTYL RUBBER (TYP.)

COMPACTED BACKFILL (TYP.)

NORMAL DEPTH

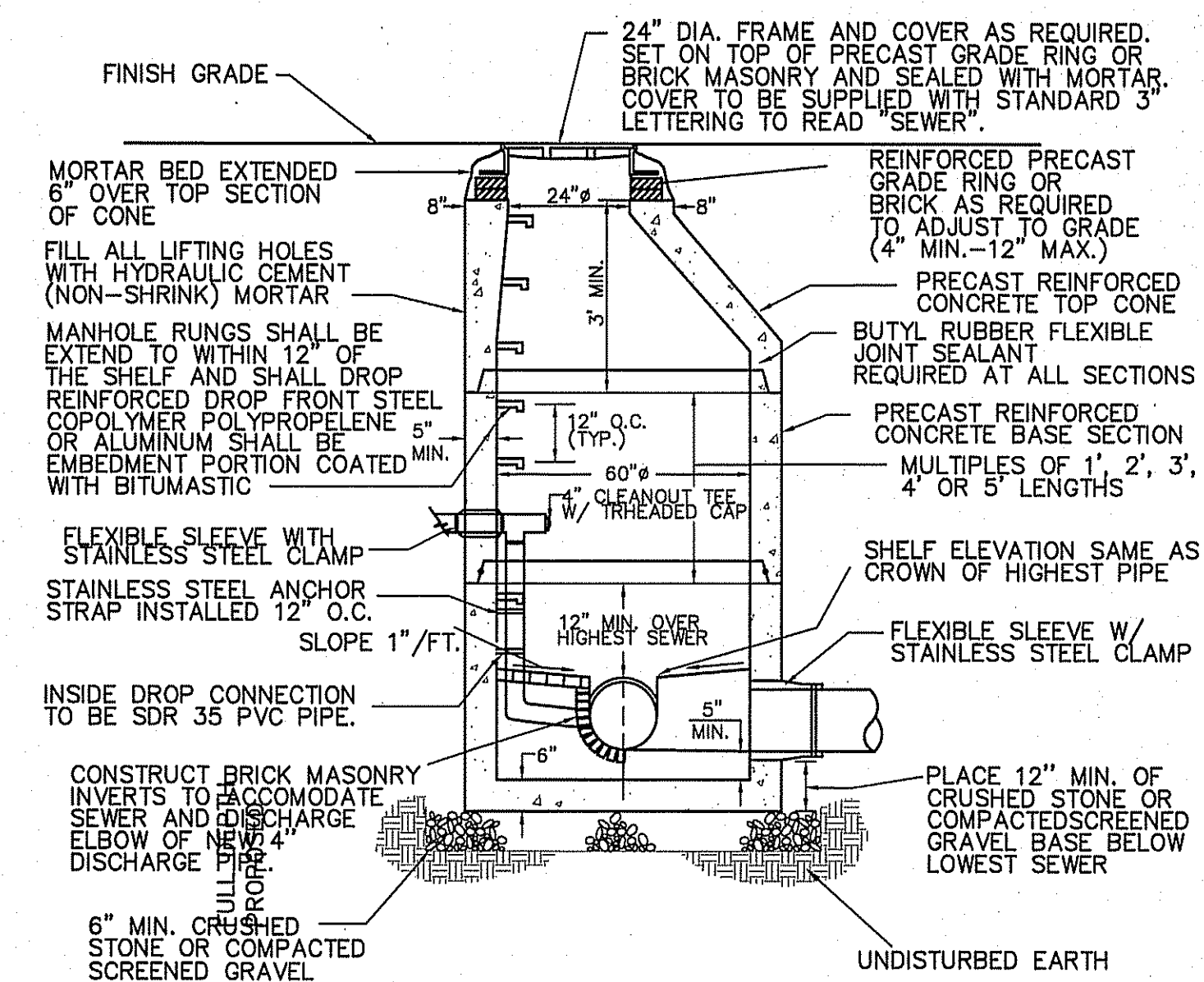
1. CATCH BASIN SHALL BE PRECAST CEMENT CONCRETE MANUFACTURED IN ACCORDANCE WITH ASTM C-478 DESIGNED FOR H-20 LOADING.
2. DRAIN PIPE FOR LATERAL CONNECTIONS SHALL BE INSTALLED AND TEMPORARILY PLUGGED AS REQUIRED OR DIRECTED.
3. SEE GENERAL PLANS FOR PIPE SIZE, LINE AND GRADE.
4. BACKFILL MATERIAL SHALL CONSIST OF SUITABLE EXCAVATED MATERIAL AND/OR GRAVEL BORROW AS DIRECTED BY THE ENGINEER.
5. INSTALL FRAME & GRATE WITH 24" SIDE ALONG CURB INLET.

N.T.S.

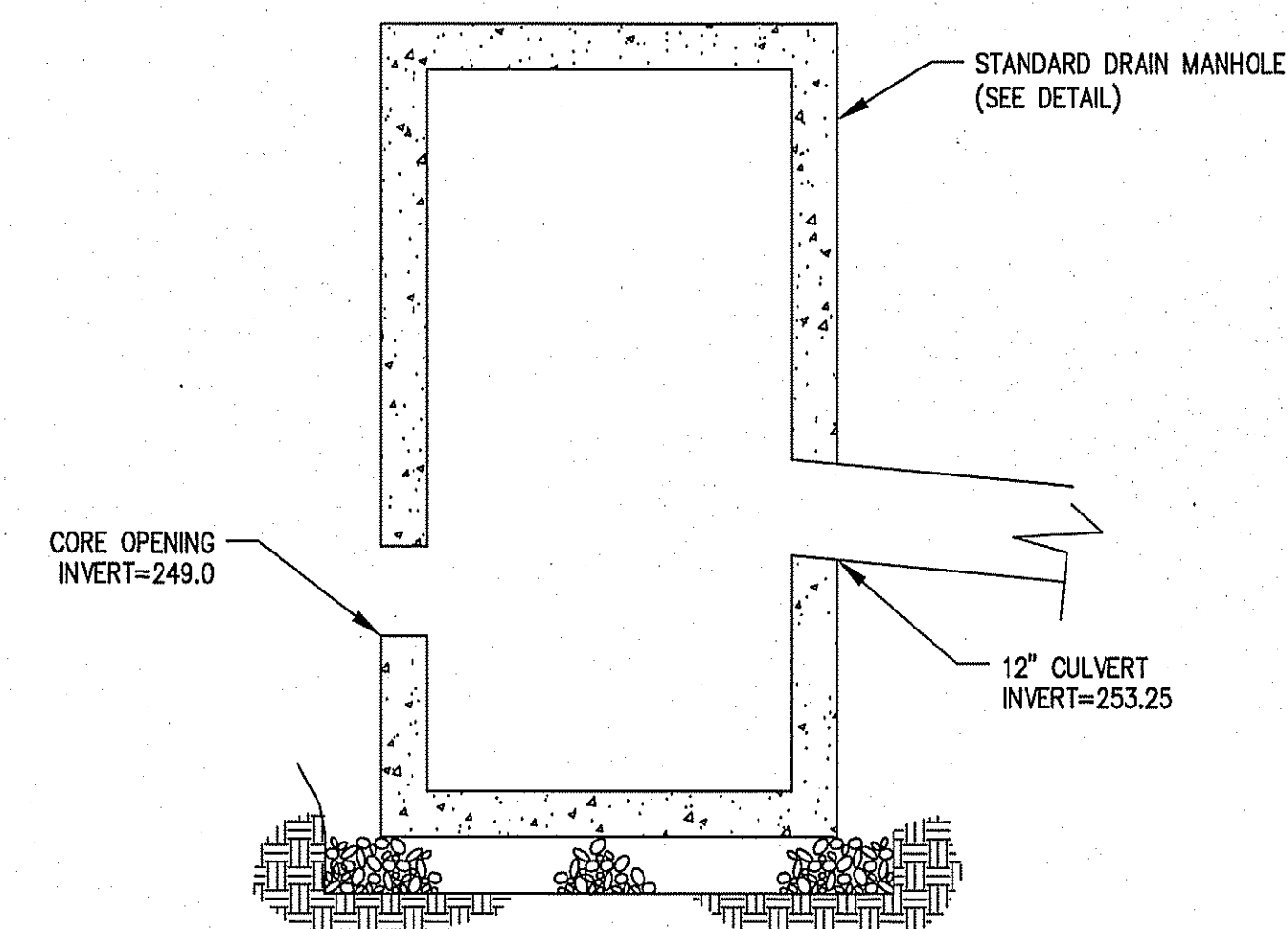


1. EXCAVATION TO ALLOW FOR FREE TRAVEL OF COMPACTION EQUIPMENT
2. ALL COMPACTION TO A MINIMUM 95 PERCENT DRY DENSITY DETERMINED BY ASTM D1557
3. SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
4. ALL PRECAST TO MEET OR EXCEED ASTM C-478 AND ASSHTO M 199 SPECIFICATIONS
4. REINFORCED STEEL TO MEET OR EXCEED ASTM A185 AND H-20 LOADING REQUIREMENTS
5. ALL PRECAST CONCRETE TO BE 4,000 PSI MINIMUM AND MEET ASTM C-478 (6.1)
6. IF NO STEPS ARE SPECIFIED THAN AS THE LOCAL MUNICIPALITY REQUIRES OR IF NO MUNICIPALITY REQUIREMENTS THEN COPOLYMER POLYPROPYLENE COATED REINFORCED PER ASTM C-478 AND OSHA (STD 1-1.9)
7. CONTRACTOR TO CONFIRM WITH CITY OR TOWN DPW THAT BRICK INVERTS ARE NOT A REQUIREMENT
8. FILL ALL INTERNAL AND EXTERNAL HOLES WITH NON-SHRINK GROUT

N.T.S.

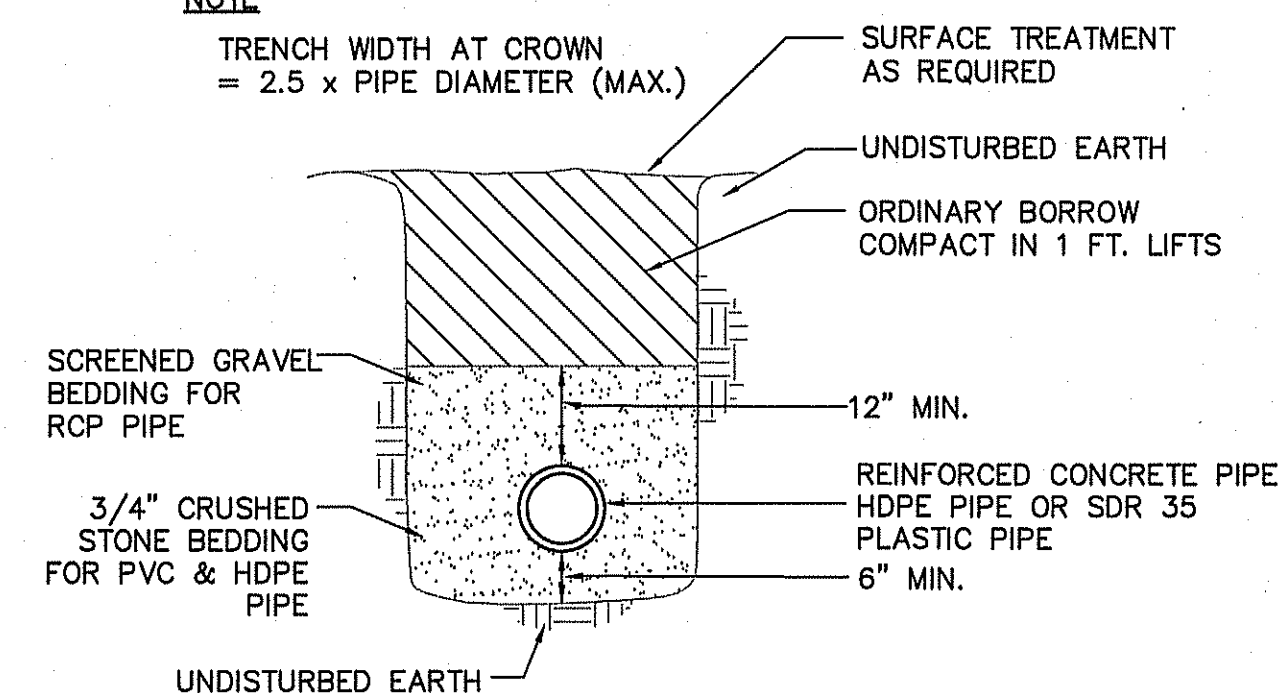


N.T.S.



N.T.S.

TRENCH WIDTH AT CROWN
= 2.5 x PIPE DIAMETER (MAX.)



1. TRENCH EXCAVATION WIDTH TO ALLOW FOR FREE TRAVEL OF COMPACTION EQUIPMENT
2. ALL COMPACTION TO A MINIMUM 95 PERCENT DRY DENSITY DETERMINED BY ASTM D1557.
3. SEE MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS
4. AVOID HEAVY EQUIPMENT LOADS OVER PIPE DURING CONSTRUCTION

N.T.S.

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

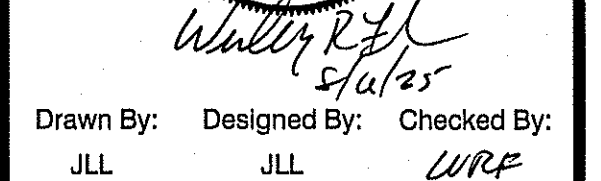
APPROVED: _____ DATE: _____

 DEVENS ENTERPRISE COMMISSION CHAIRMAN

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ENTERPRISE COMMISSION
DATE:

No.	Date	Revision

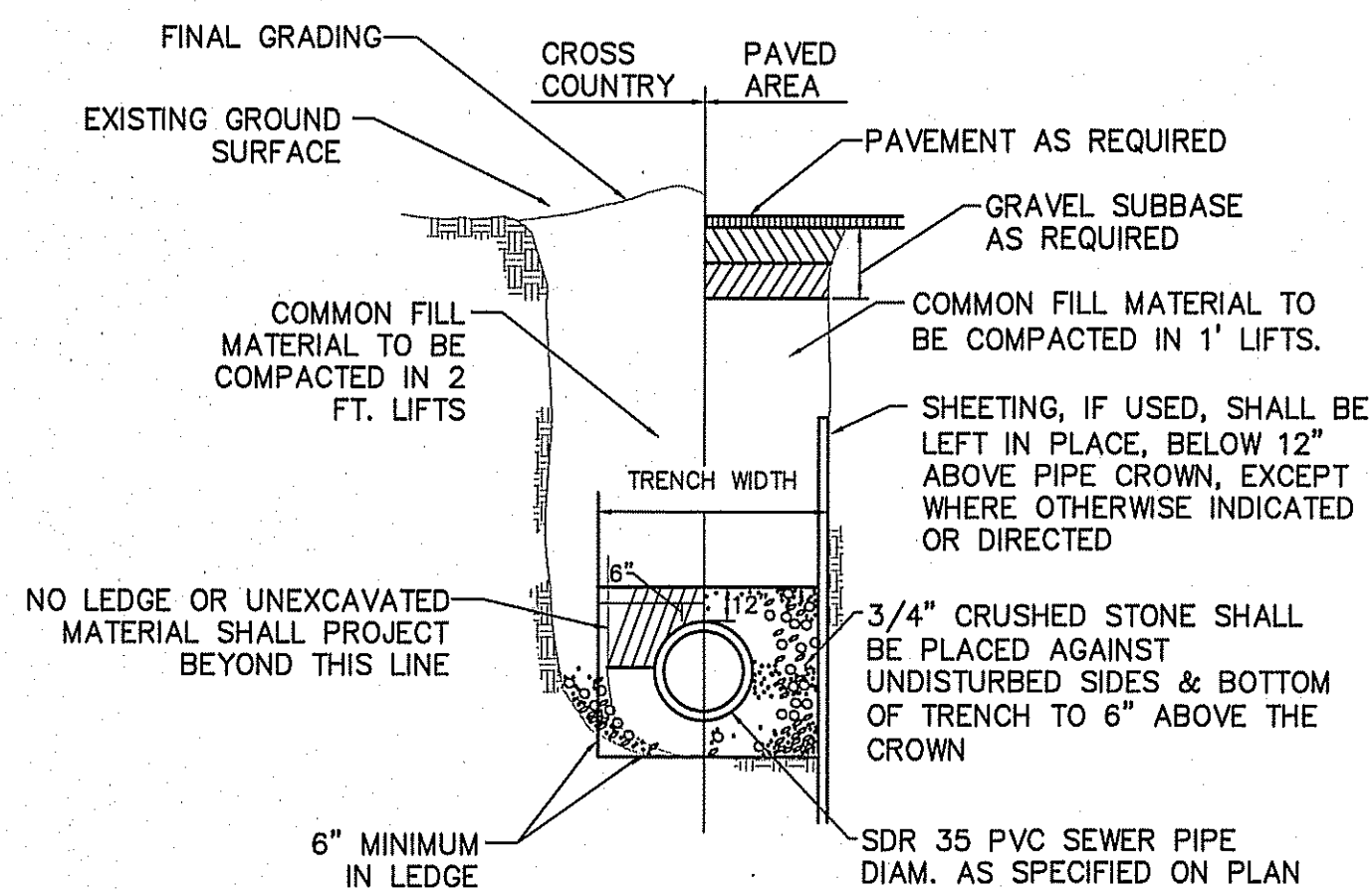


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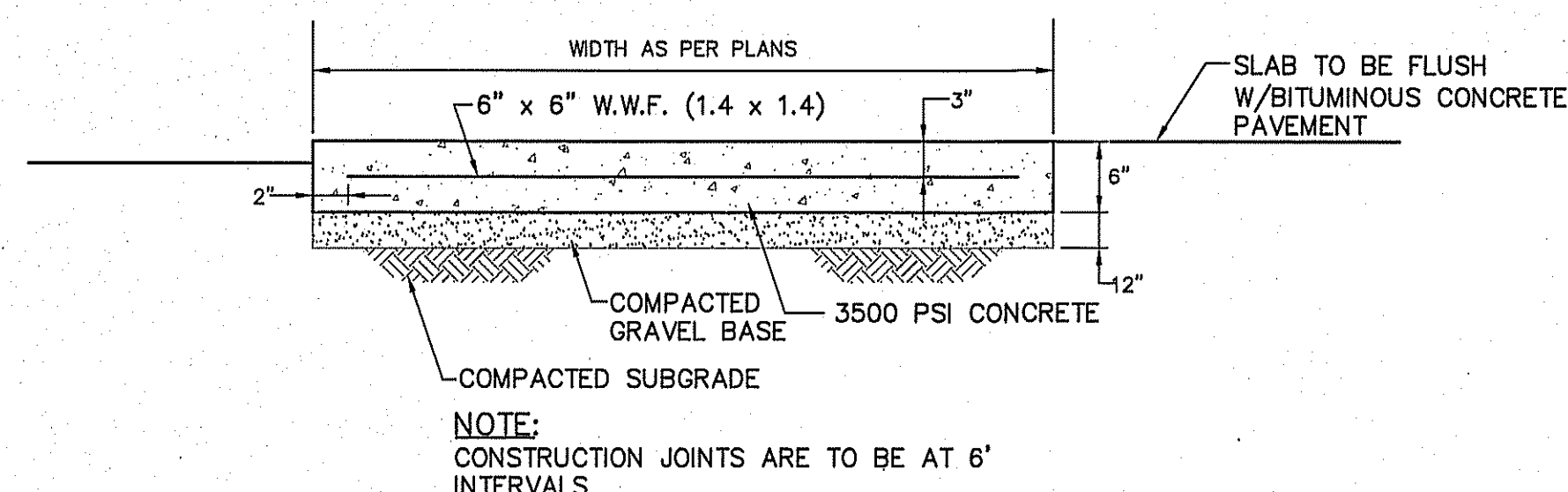
Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Construction Details

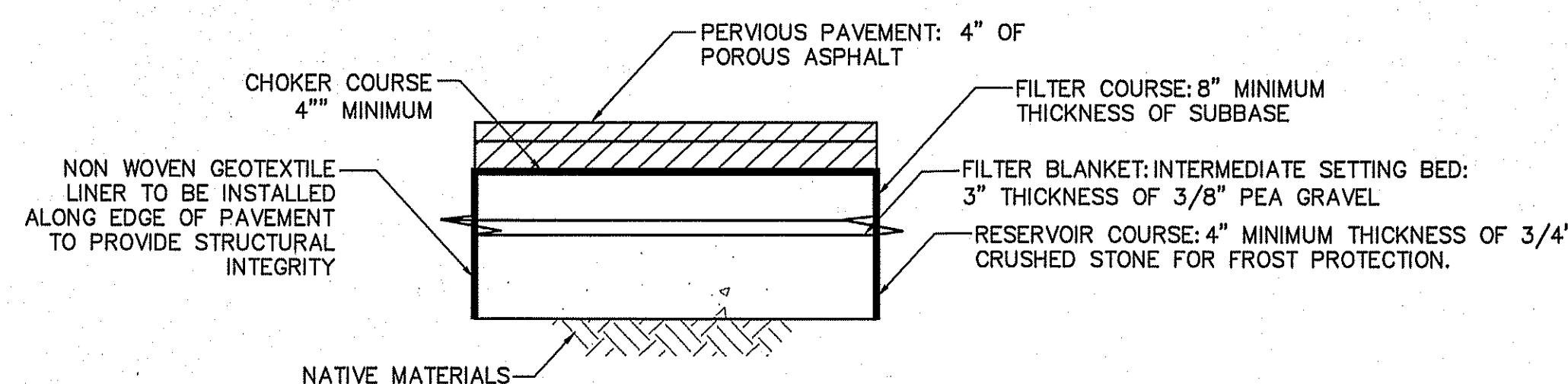
Job No: 127.01.001
File Name: 127.01.001P-DET01
Date: July 3, 2025
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SEWER TRENCH SECTION
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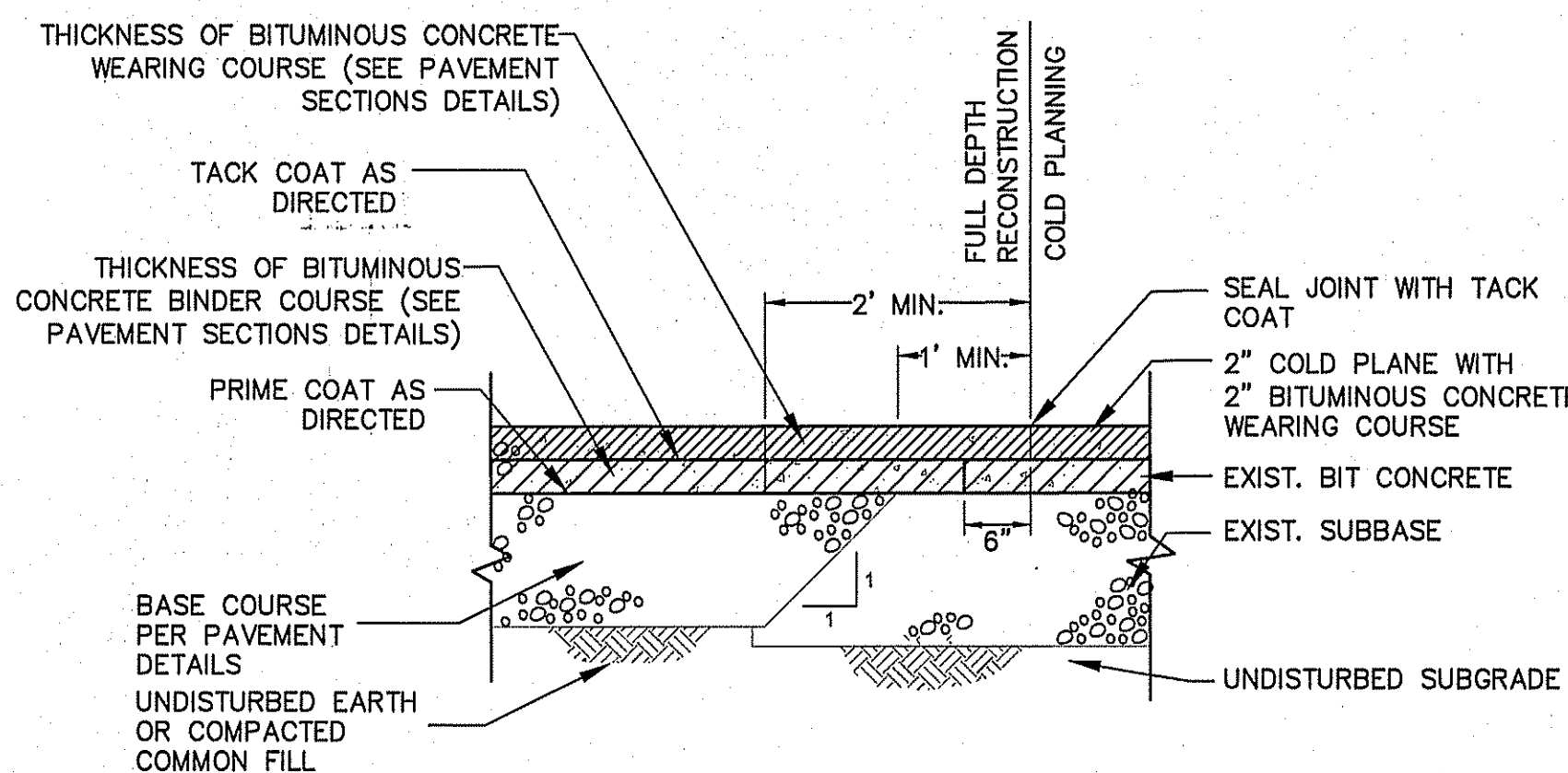


CONCRETE LOADING AREA PAD DETAIL
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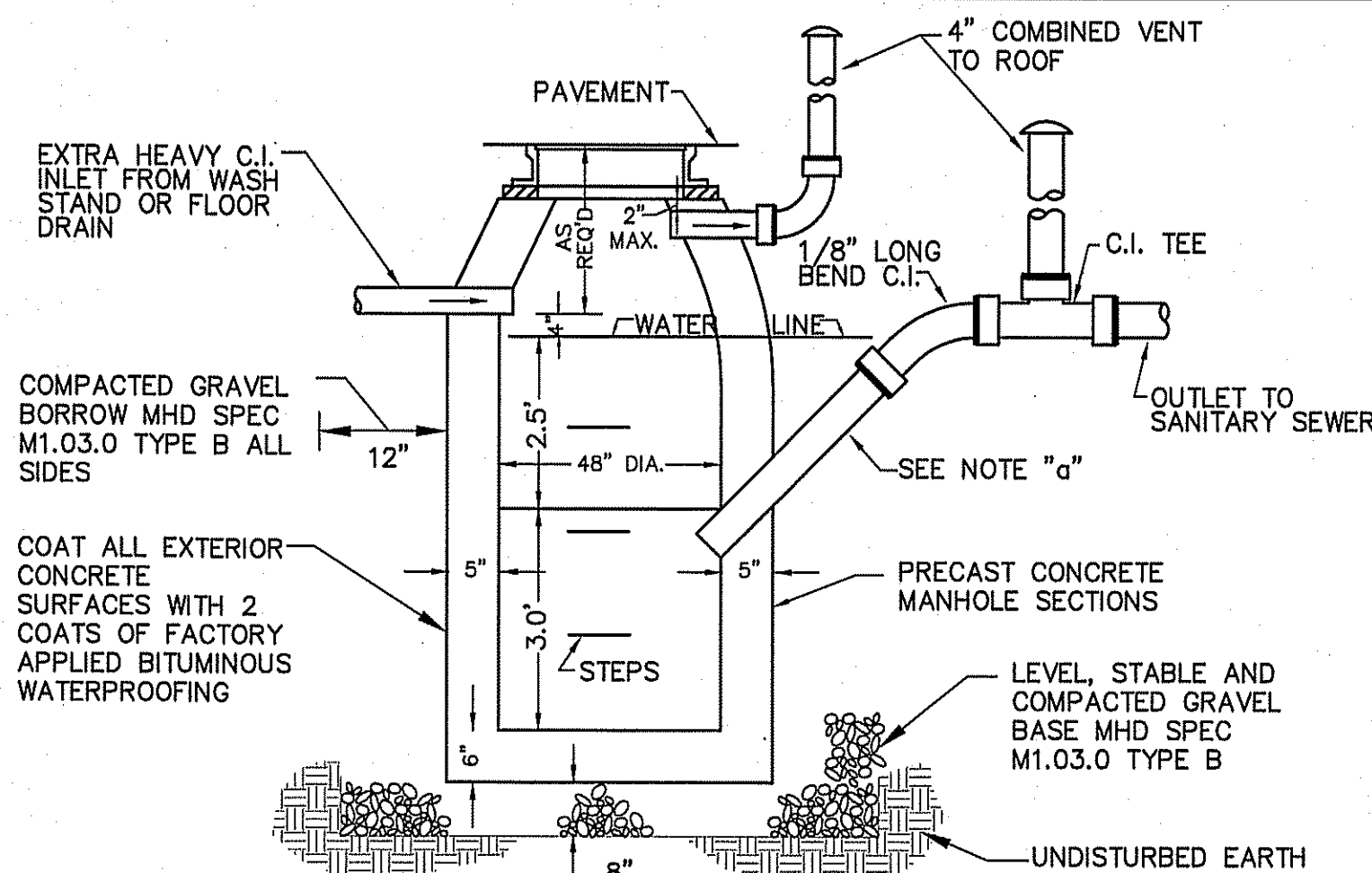


POROUS PAVEMENT DETAIL
N.T.S.

- NOTES:
1. POROUS ASPHALT TO BE CONSTRUCTED IN ACCORDANCE WITH UNHSC DESIGN SPECIFICATIONS FOR POROUS ASPHALT PAVEMENT AND INFILTRATION BEDS.
 2. POROUS ASPHALT TO BE INSTALLED BY A QUALITY CONTRACTOR EXPERIENCED INTO PERMEABLE PAVING INSTALLATION



PAVEMENT MATCHING DETAIL
N.T.S.



- (a) HUBLESS C.I. SOIL PIPE AND FITTINGS WITH APPROVED COUPLINGS
(b) SERVICE WEIGHTS SOIL PIPE WITH APPROVED RESILIENT GASKETS OR LEAD AND OKUM JOINTS.
(c) EXTRA HEAVY SOIL PIPE WITH APPROVED RESILIENT GASKETS OR LEAD AND OKUM JOINTS.

GENERAL CONSTRUCTION NOTES

WHERE SUBJECT TO FROST OR CRUSHING CONDITIONS, OUTLET SHALL BE AT LEAST THREE FEET BELOW THE SURFACE.
THE NEW SEPARATOR MUST BE FILLED WITH CLEAN WATER BEFORE USING, AND AFTER BEING EMPTIED FOR PERIODIC CLEANING.

ALL OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING OUT THE BASIN, AND MUST NOT BE DISCHARGED INTO THE SEWER THROUGH OTHER FIXTURES.

SPECIFICATIONS FOR COVERING SPECIAL CASES OR CONDITIONS, SHALL BE APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE COMMONWEALTH OF MASSACHUSETTS.

STEPS SHALL BE SPACED 12" APART

BOTH VENTS SHALL BE EXTENDED INDEPENDENTLY 18" ABOVE THE ROOF, OR AS APPROVED BY THE LOCAL AUTHORITIES, AND THE AUTHORITIES OF THE COMMONWEALTH OF MASSACHUSETTS.

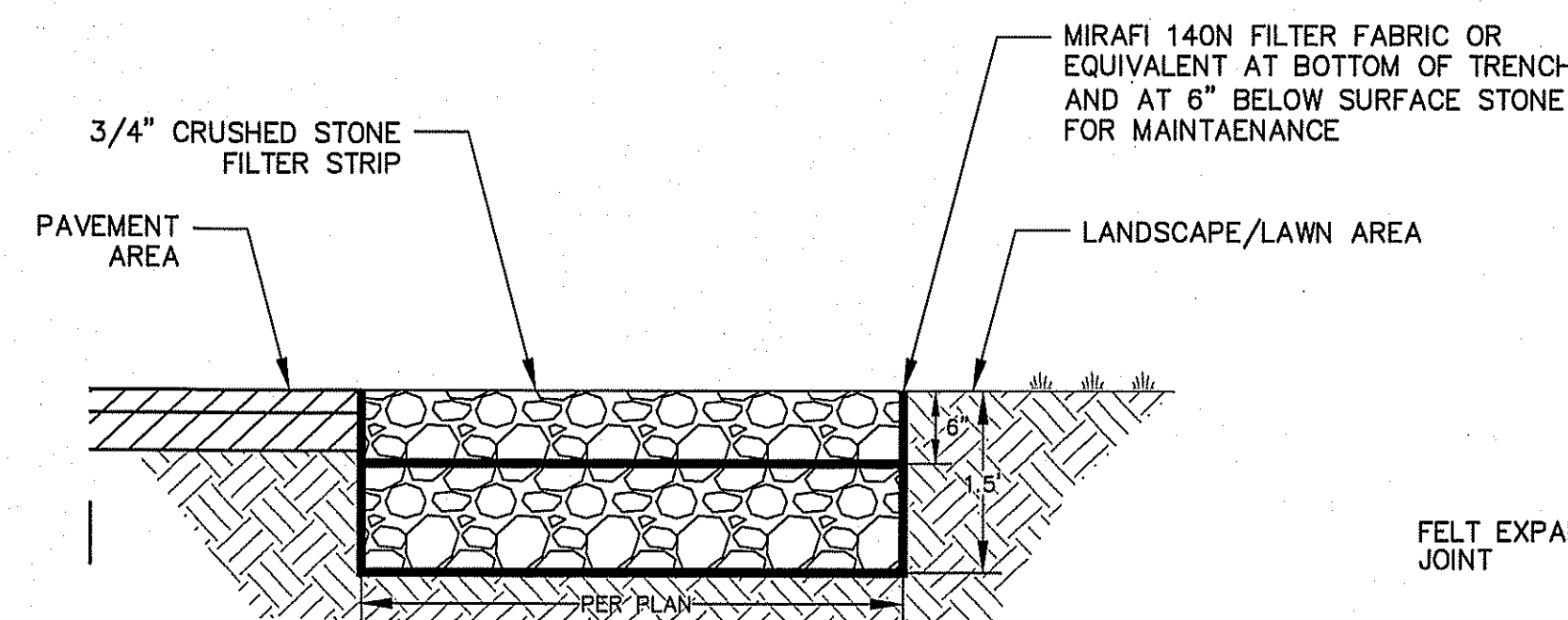
SEPARATOR TO BE LOCATED OUTSIDE OF BUILDING WHERE POSSIBLE, COVER TO HAVE A CENTER HOLE.

A TIGHT COVER MUST BE USED IF SEPARATOR IS LOCATED INSIDE OF BUILDING.
OPENING SHALL BE NOT LESS THAN 24" DIA.

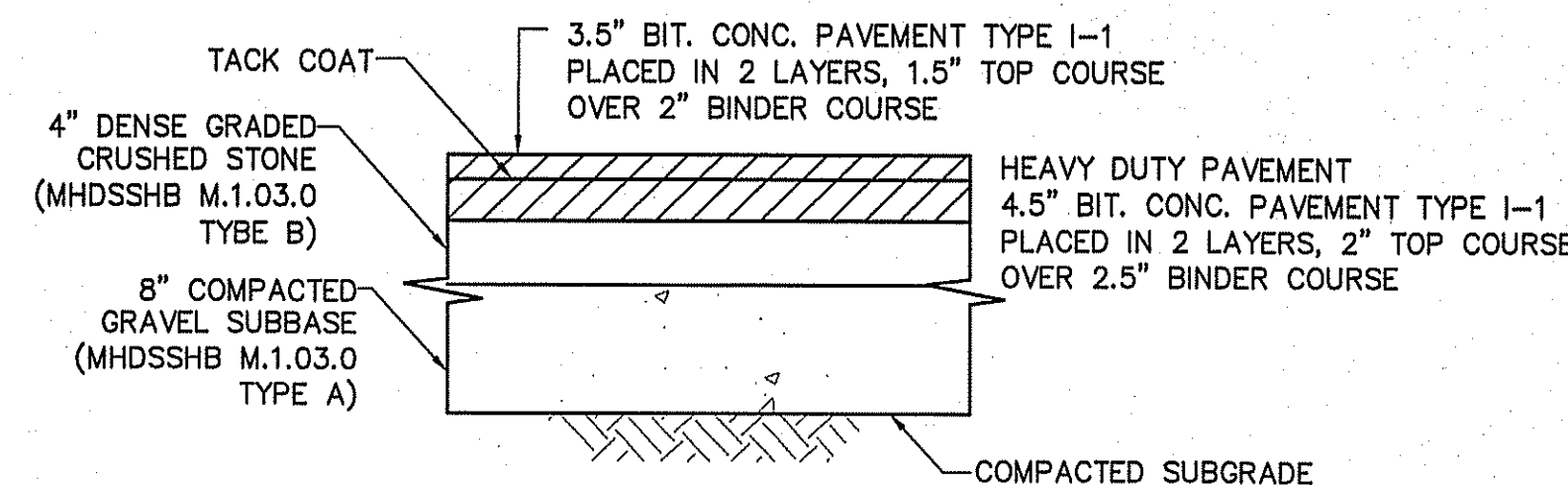
THE SEPARATOR SHALL BE SO LOCATED AND CONSTRUCTED THAT SURFACE WATER SHALL BE EXCLUDED.

INLET PIPE SHALL BE AT LEAST FOUR INCHES ABOVE NORMAL WATER LINE.

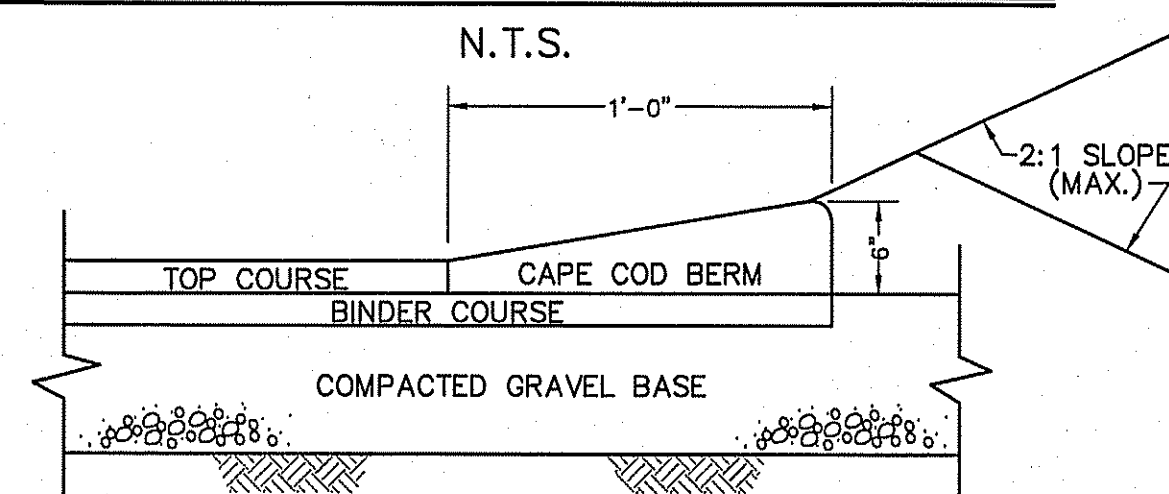
OIL/WATER SEPARATOR
N.T.S.



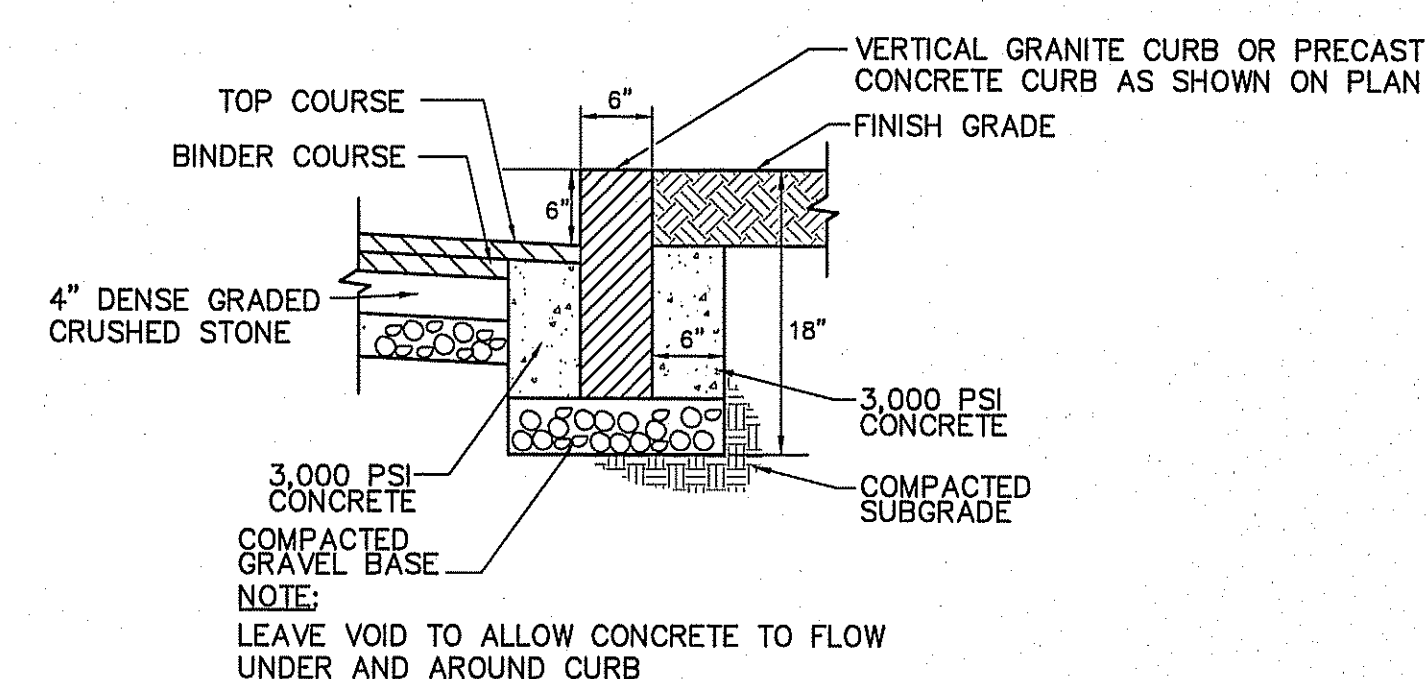
PEA STONE DIAPHRAGM DETAIL
N.T.S.



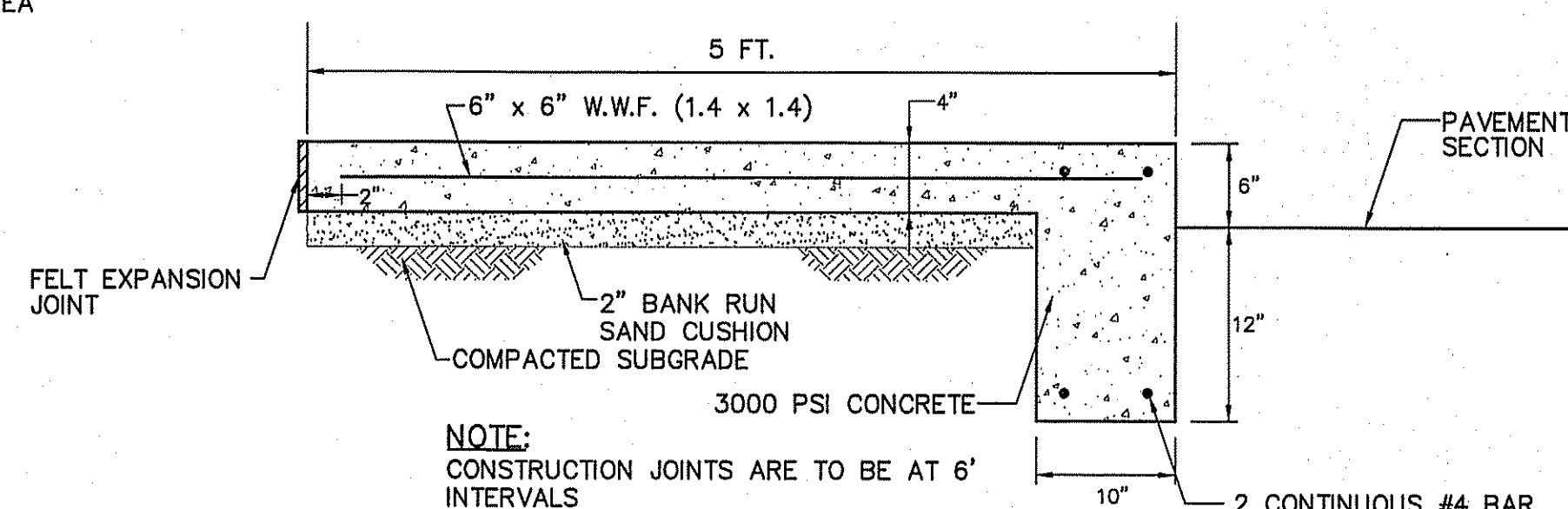
BITUMINOUS CONCRETE PAVEMENT DETAIL
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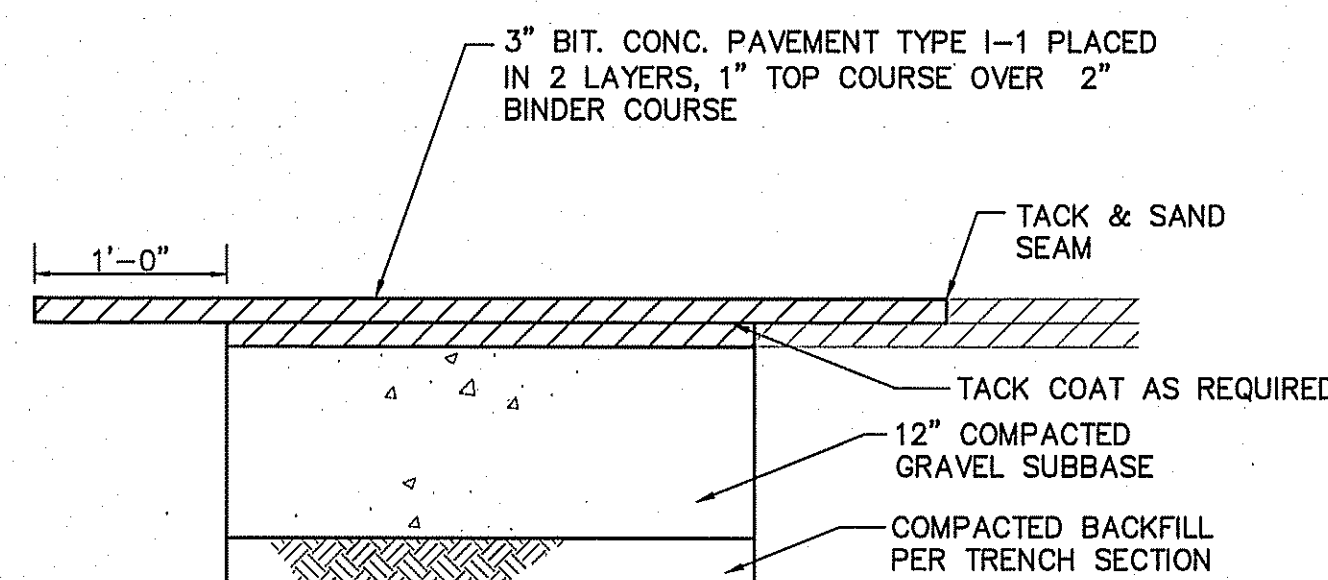
BITUMINOUS CONCRETE BERM DETAIL (TYPE A)
N.T.S.



VERTICAL GRANITE/PRECAST CONCRETE CURB DETAIL
N.T.S.



MONOLITHIC CONCRETE CURB & SIDEWALK DETAIL
N.T.S.



PERMANENT TRENCH REPAIR DETAIL
N.T.S.

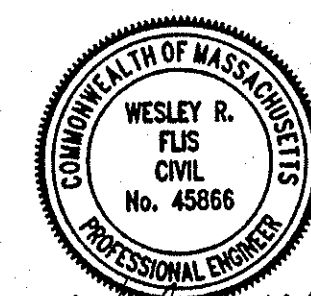
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DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

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DEVENS ENTERPRISE COMMISSION CHAIRMAN

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No.	Date	Revision
1	8/6/2025	Response to Comments



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Designed By: JLL
Checked By: WRF

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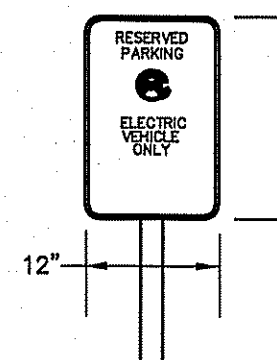
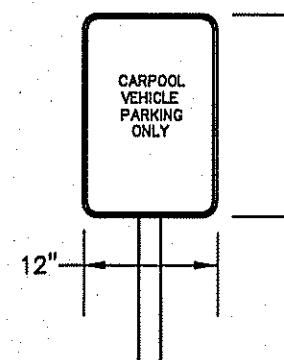
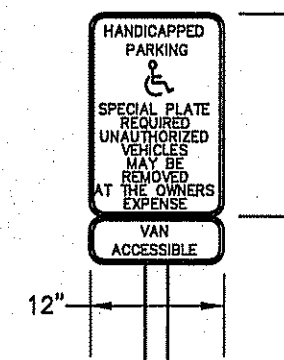
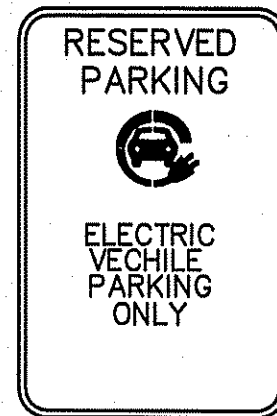
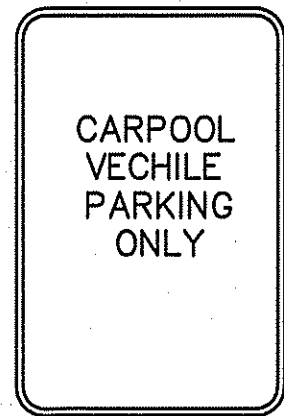
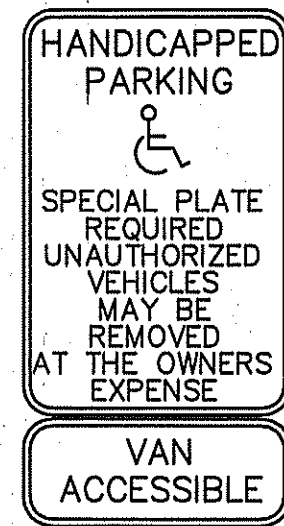
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Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

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Details

Job No: 127.01.001
File Name: 127.01.001P-DET02
Date: July 3, 2025
Scale: N.T.S.

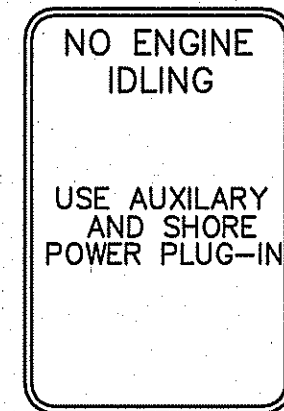
Sheet No.
13



HANDICAP PARKING SIGN DETAIL
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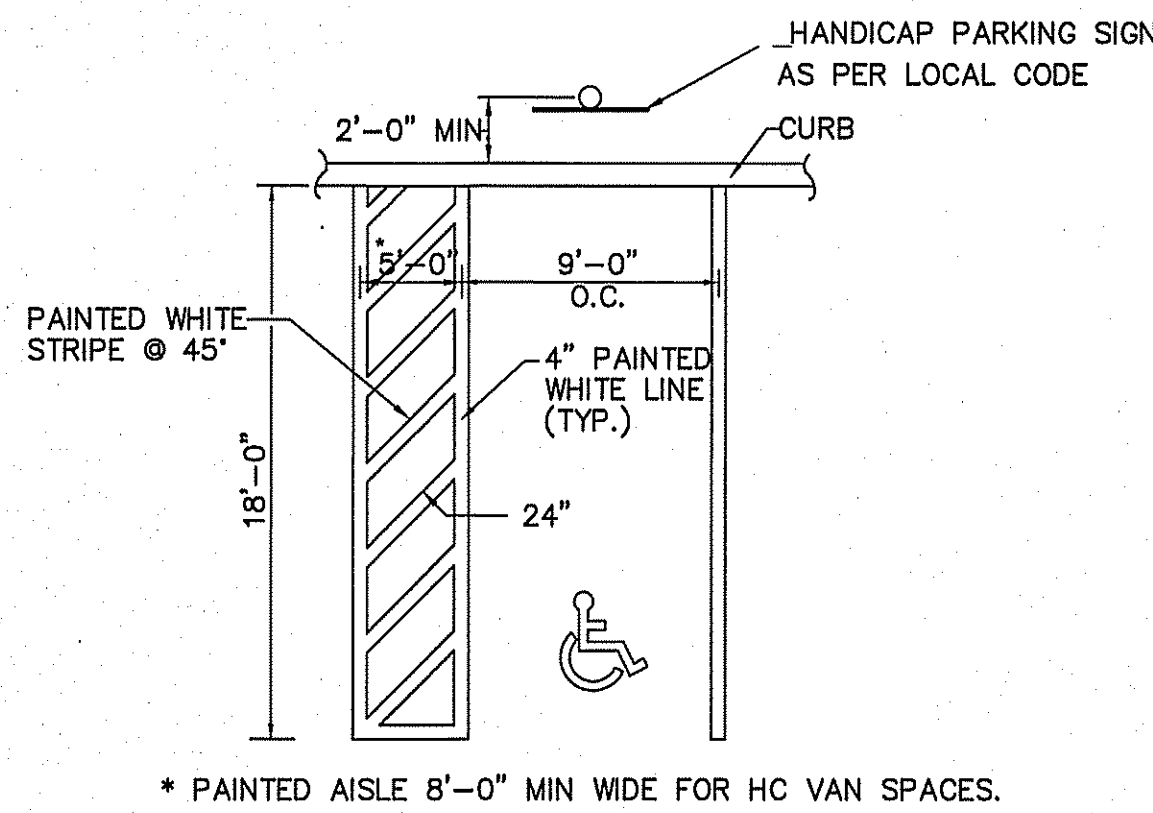
RIDE SHARING PARKING SIGN DETAIL
N.T.S.

ELECTRIC VEHICLE PARKING SIGN DETAIL
N.T.S.



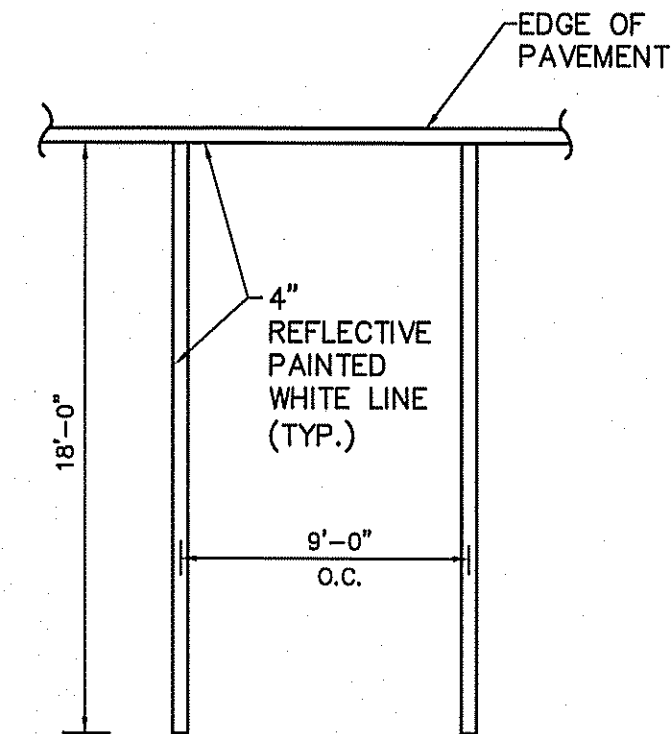
NOTE:
TO BE MOUNTED ON BUILDING

NO IDLING SIGN DETAIL
N.T.S.

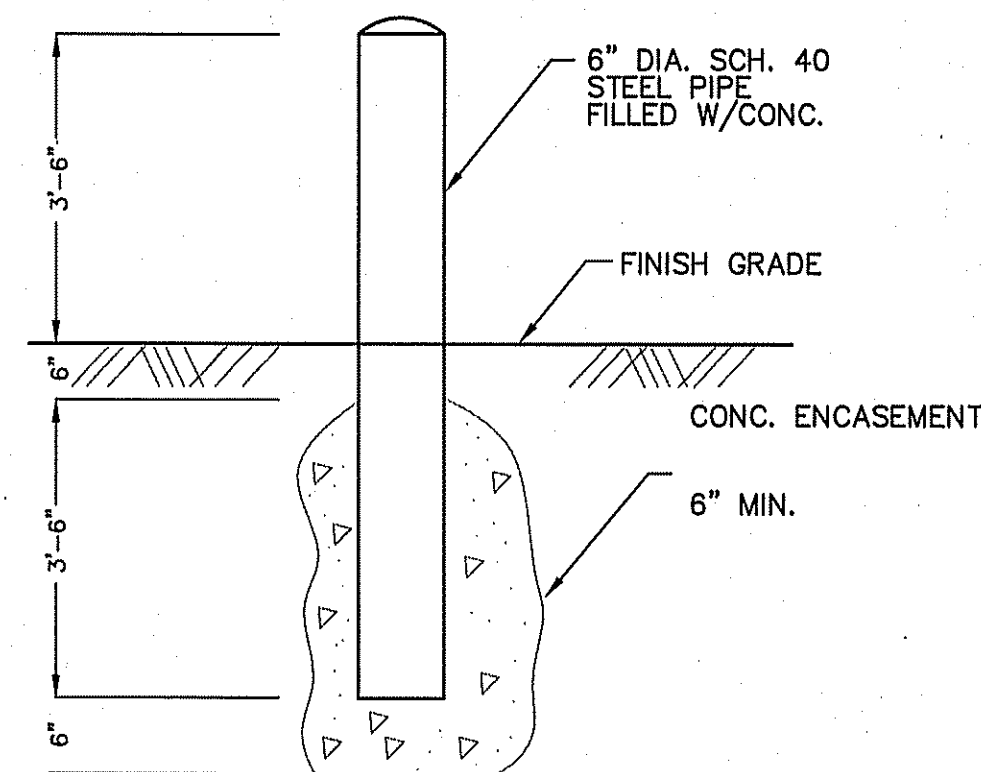


* PAINTED AISLE 8'-0" MIN WIDE FOR HC VAN SPACES.

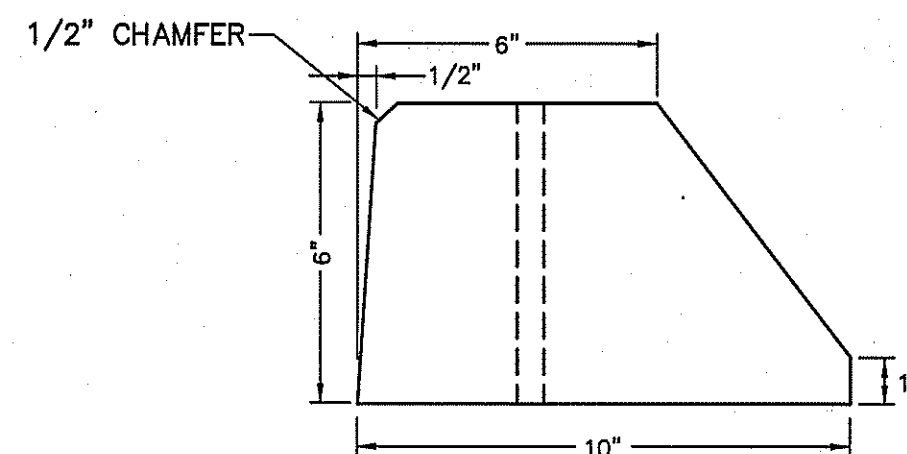
HANDICAP PARKING SPACE DETAIL
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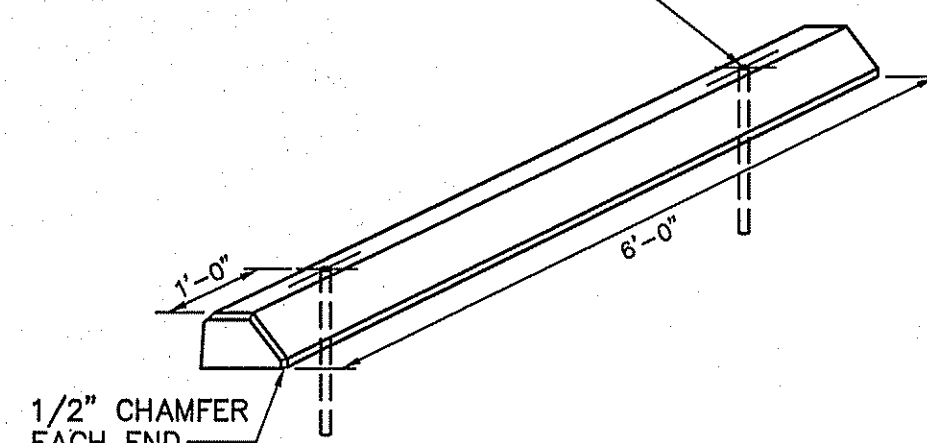
STANDARD SPACE DETAIL
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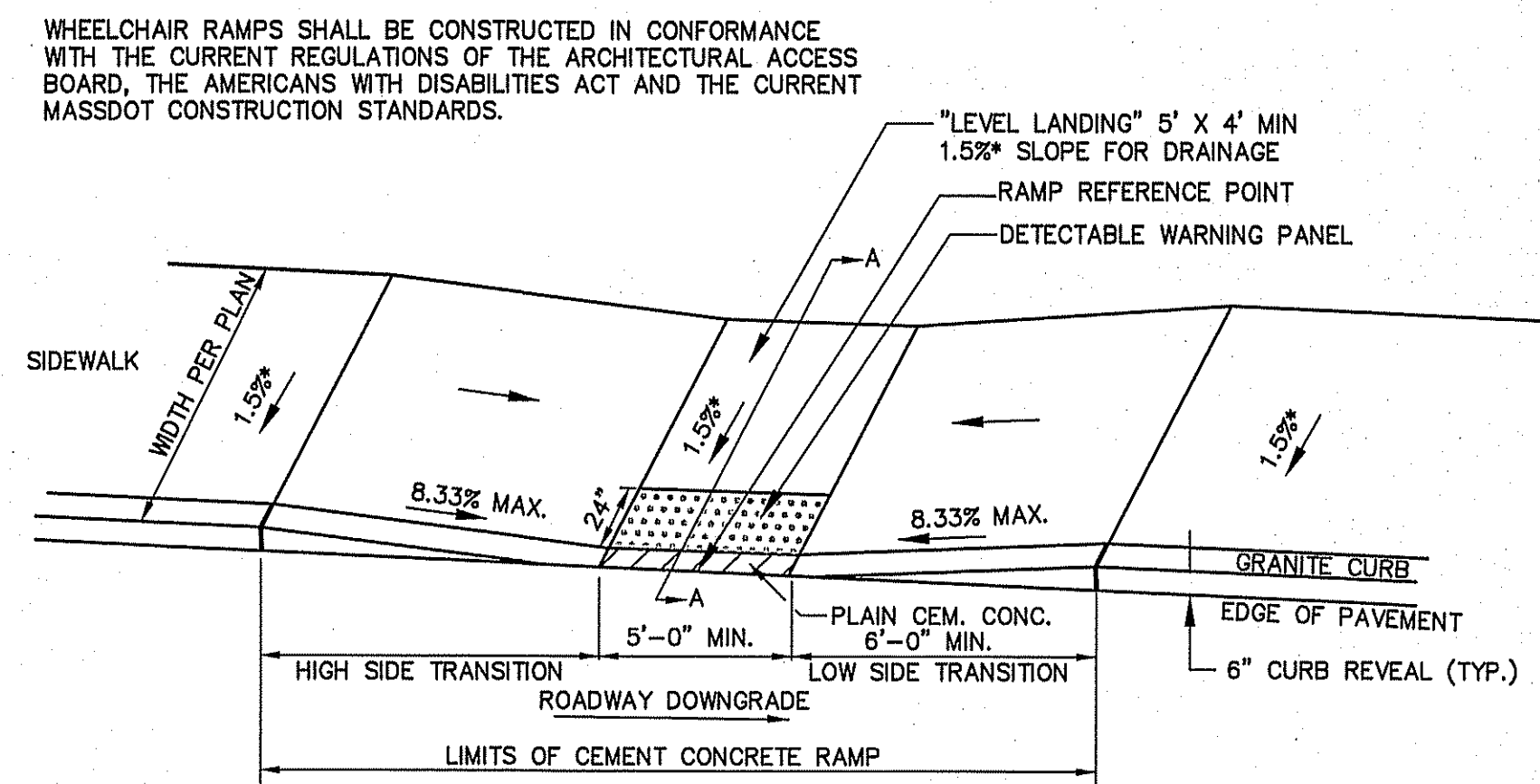
BOLLARD DETAIL
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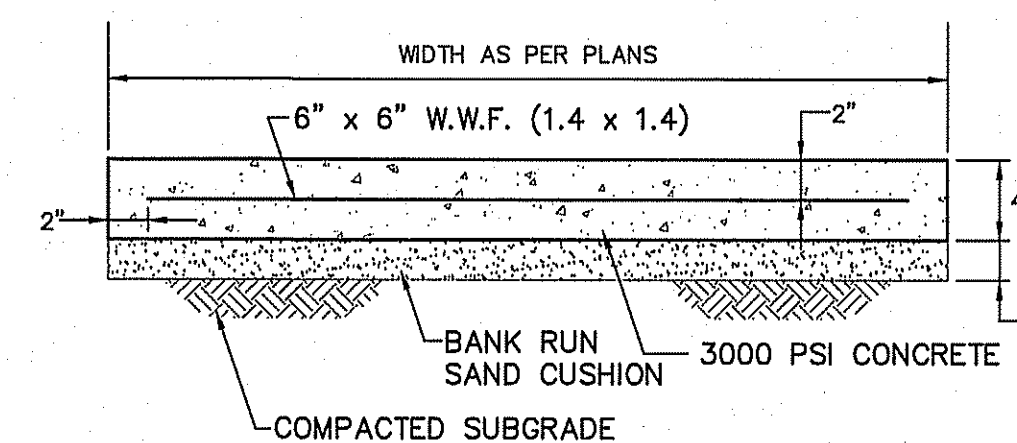
PROVIDE 2 HOLES FOR 3/4" Ø METAL RODS. TO BE A MIN. OF 18" LONG



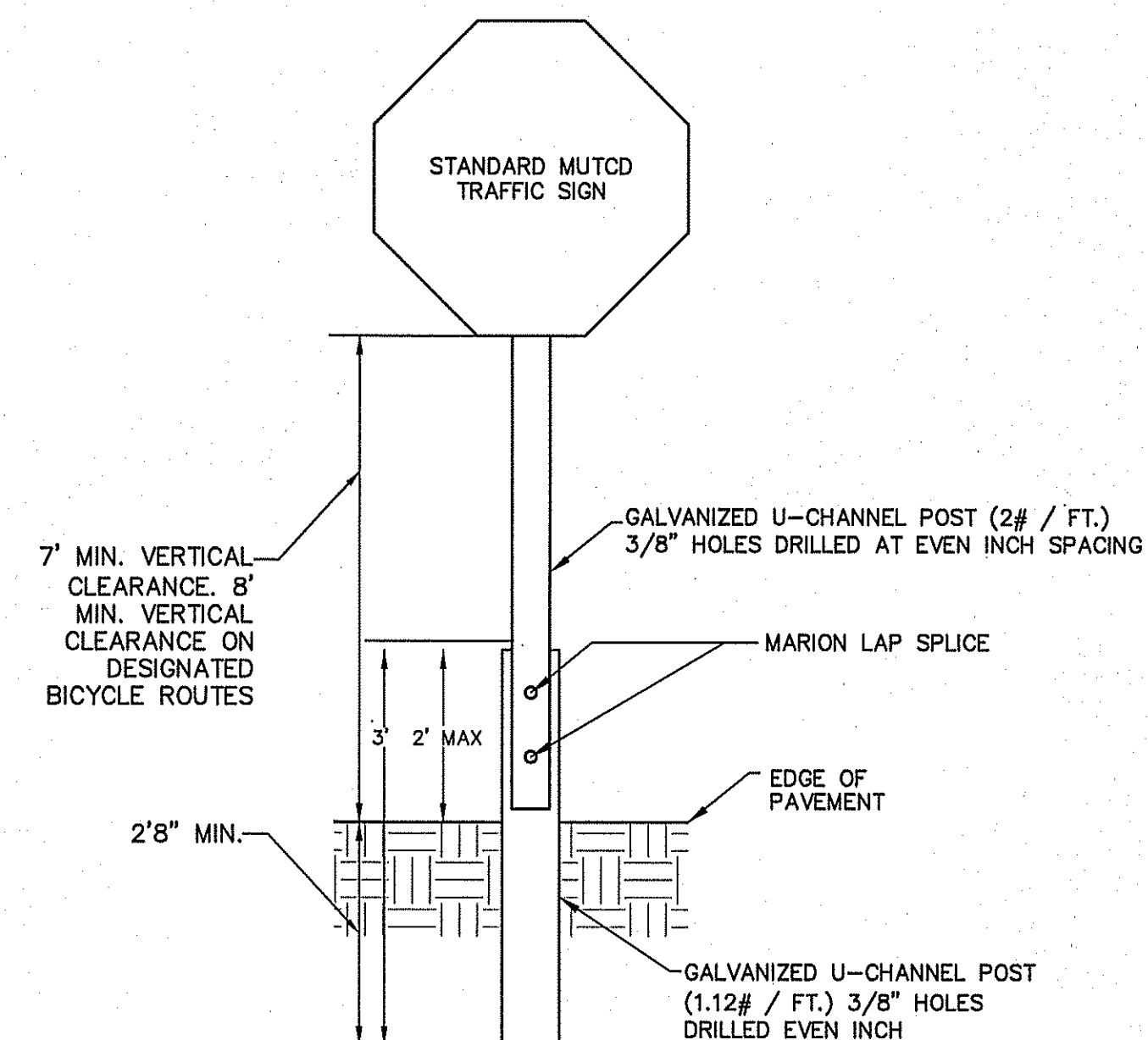
PRECAST CONCRETE CURB STOP DETAIL
N.T.S.



SECTION A-A
WHEELCHAIR RAMP TYPE A
N.T.S.



NOTE:
CONSTRUCTION JOINTS ARE TO BE AT 6' INTERVALS
CONCRETE SIDEWALK DETAIL
N.T.S.



TRAFFIC SIGN DETAIL
N.T.S.

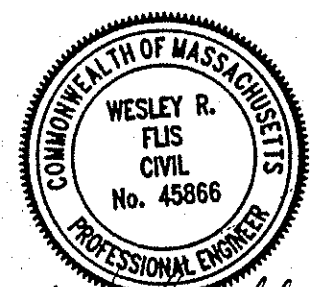
OWNER
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330 SMC DRIVE
SOMERSET, WI 54025

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Designed By: JLL
Checked By: WRT

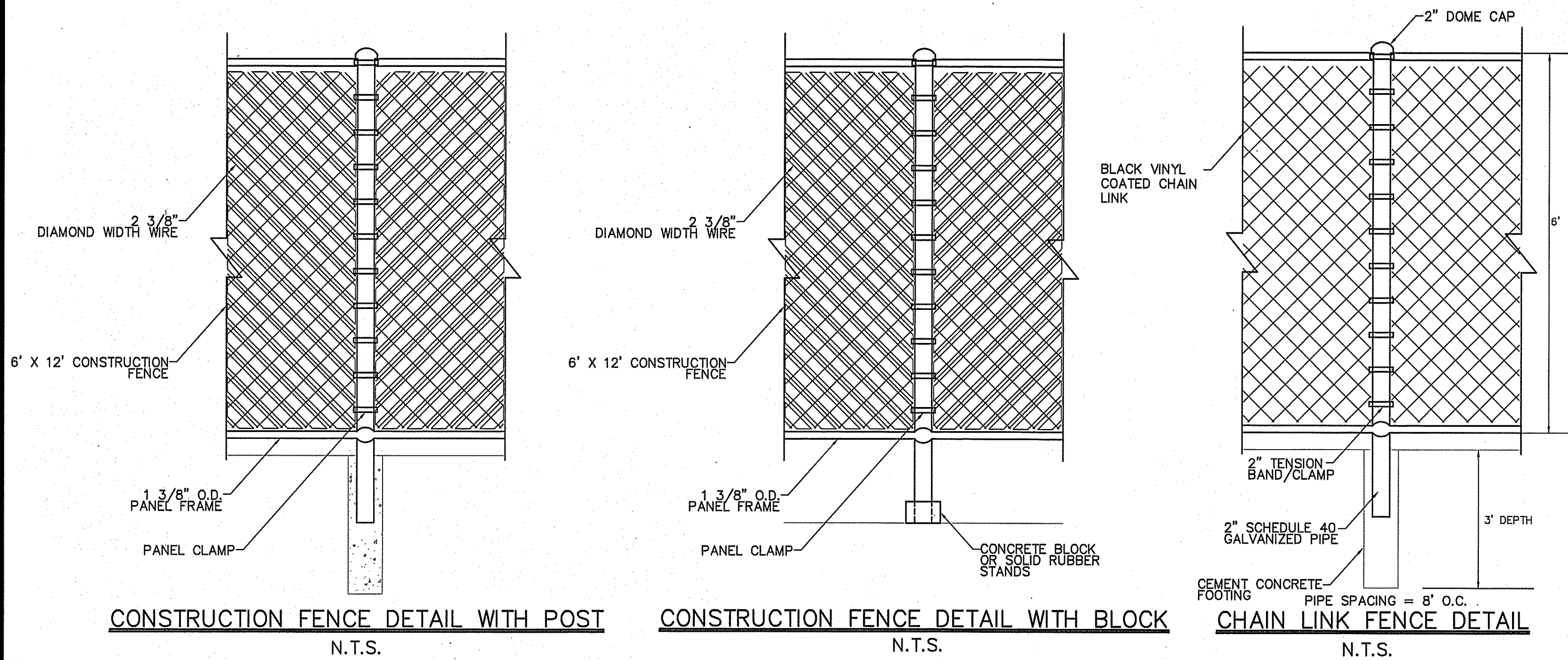
McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
phone: (978) 534-1318 fax: (978) 840-6907
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Project Name
Mack Devens
Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

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Construction
Details

Job No: 127.01.001
File Name: 127.01.001P-DET03
Date: July 3, 2025
Scale: N.T.S.

Sheet No.
14



Specifications

- The separator must be designed based on the following criteria:
- The separator must be independently tested and verified to the 2013 NIDEP separator protocol and 2014 ETV Canada Separator protocol.
- Vendor testing and/or field testing is not acceptable to determine an alternate equal due to the lack of repeatability.

HydroDome Components

- A. Siphon
- B. Overflow Weir
- C. Wall Anchor
- D. Air Check Valve
- E. Foam Debris Screen
- F. Perforated Bottom
- G. Grate or Cover
- H. Inlet and Outlet Pipes
- I. Structure Diameter
- J. Base Extension
- K. Sump Depth
- L. Invert to Top of Structure

Notes:

- Sump depths shown are typical. Additional depth can be added as required.
- Single or multiple inlet pipes allowed.
- Drops allowed.
- Inlet Grate Shown. HydroDome can be designed with a closed cover if required.
- Oil capacities given are spill capacities.
- Sediment depths are maximum holding capacities and not recommended capacities for regular maintenance.
- Capacities are rounded down to nearest 5 gal or ft³ (5L or 0.1 m³ for metric units).
- Minimum rim to top of structure (L) required may vary for HydroDome. Please call Hydroworks for site-specific design questions.
- Hydraulics vary with pipe size and model number. Please call Hydroworks for site-specific headloss calculations.

HydroDome by Hydroworks, LLC
U.S. Patent # 10,801,196
www.hydroworks.com
888-290-7900

HydroDome Dimensions / Capacities *

Model	Diameter ft (m)	Sump Depth ft (m)	Max. Pipe In H (mm)	Total Volume gal (L)	Oil Spill Volume gal (L)	Sediment Volume ft ³ (m ³)
HD 3	3 (0.9)	4 (1.2)	18 (450)	210 (800)	30 (120)	15 (0.5)
HD 4	4 (1.2)	4.5 (1.4)	21 (525)	420 (1600)	70 (265)	30 (0.9)
HD 5	5 (1.5)	5.5 (1.7)	27 (675)	805 (3055)	125 (480)	80 (1.7)
HD 6	6 (1.8)	6.5 (2.0)	33 (825)	1375 (5200)	210 (800)	100 (2.8)
HD 7	7 (2.1)	7.5 (2.3)	39 (975)	2155 (8170)	320 (1225)	180 (4.8)
HD 8	8 (2.4)	8.5 (2.6)	42 (1050)	3195 (12095)	490 (1860)	235 (6.8)
HD 10	10 (3.0)	10.5 (3.2)	54 (1350)	5195 (23350)	955 (3615)	455 (13.0)
HD 12	12 (3.6)	12.5 (3.8)	66 (1650)	10575 (40030)	1640 (6220)	780 (22.2)

* HD dimensions can be customized to provide site specific oil or sediment volumes

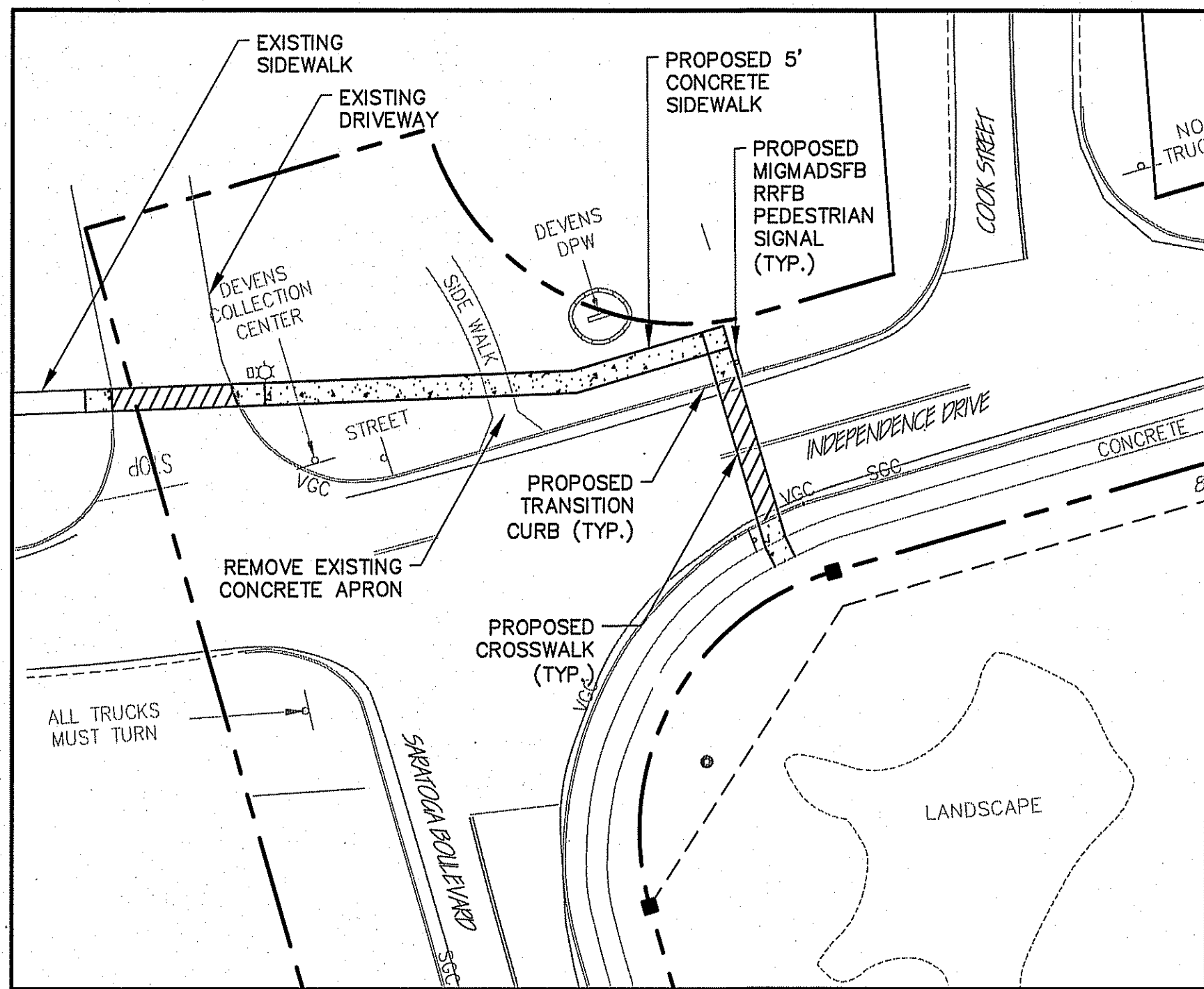
Hydroworks HydroDome

PROJECT: _____

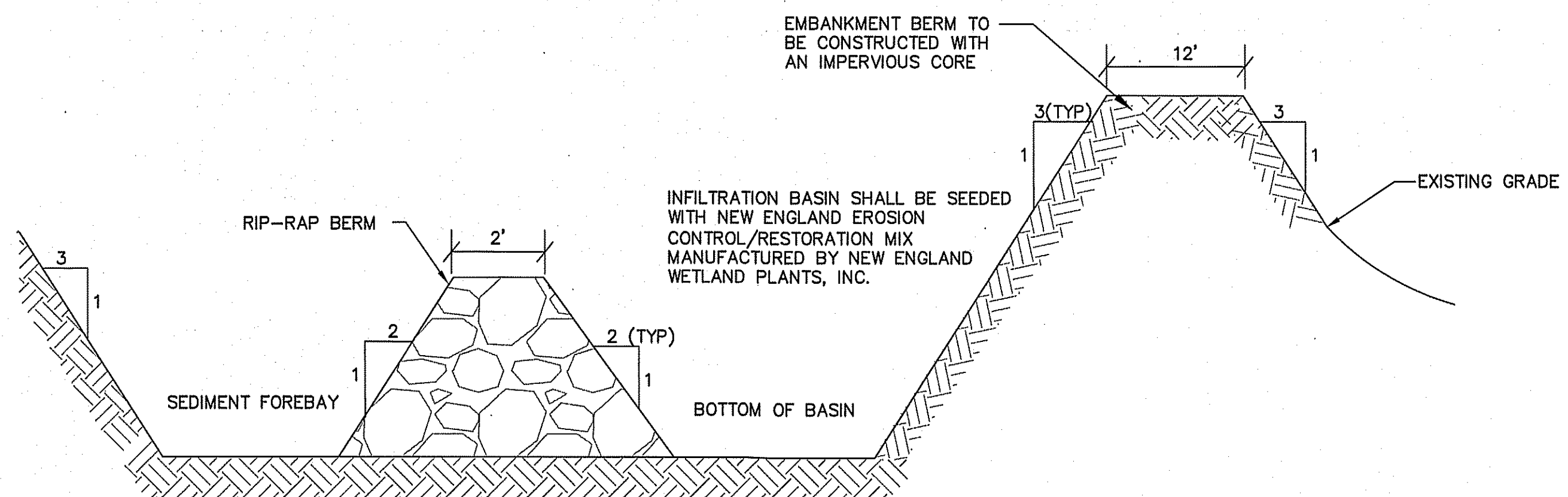
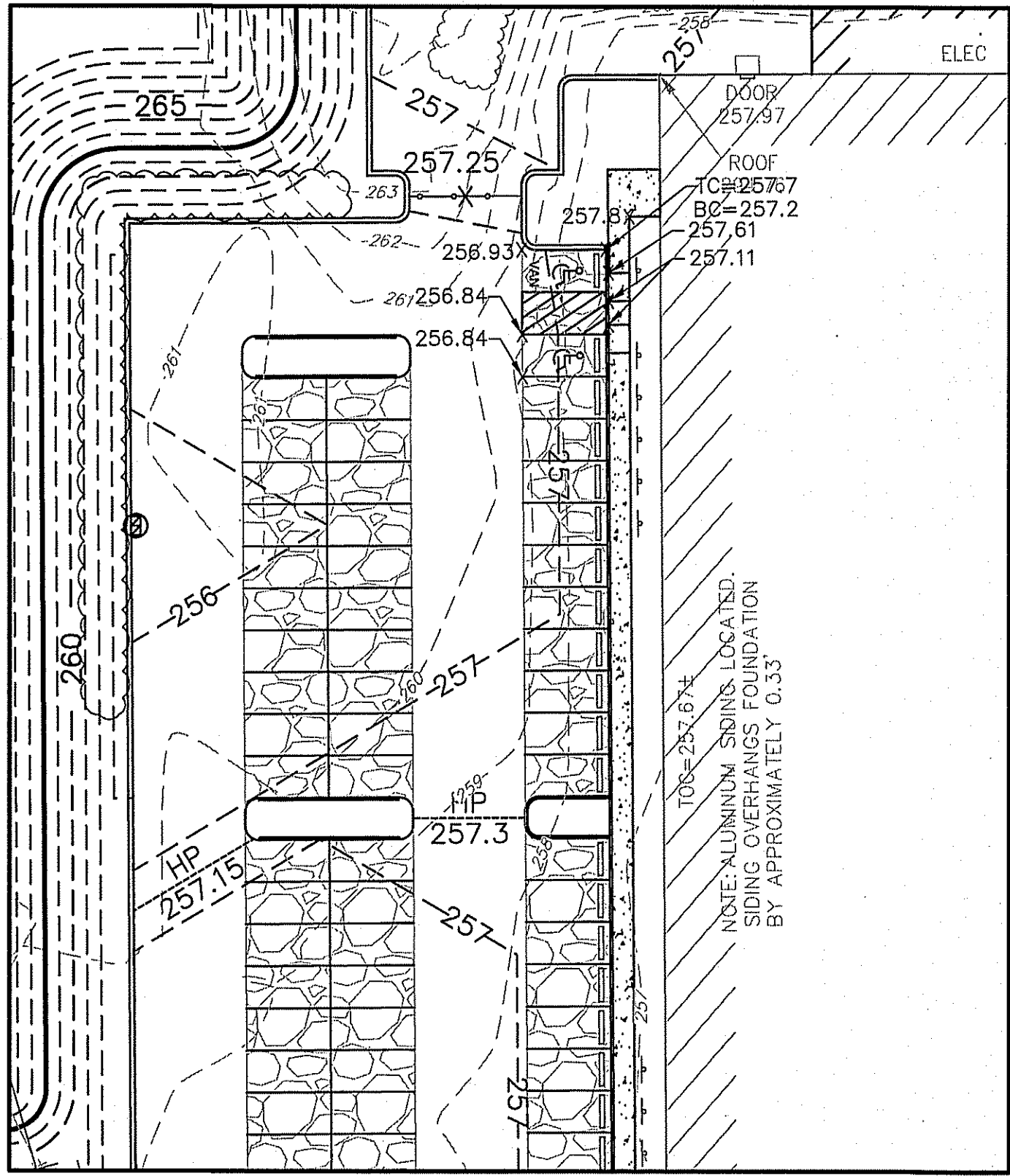
LOCATION: _____

REVISION DATE: 08/08/2022

Hydroworks



HYDROWORKS HYDRODOME HD5 DETAIL
N.T.S.



OWNER:
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

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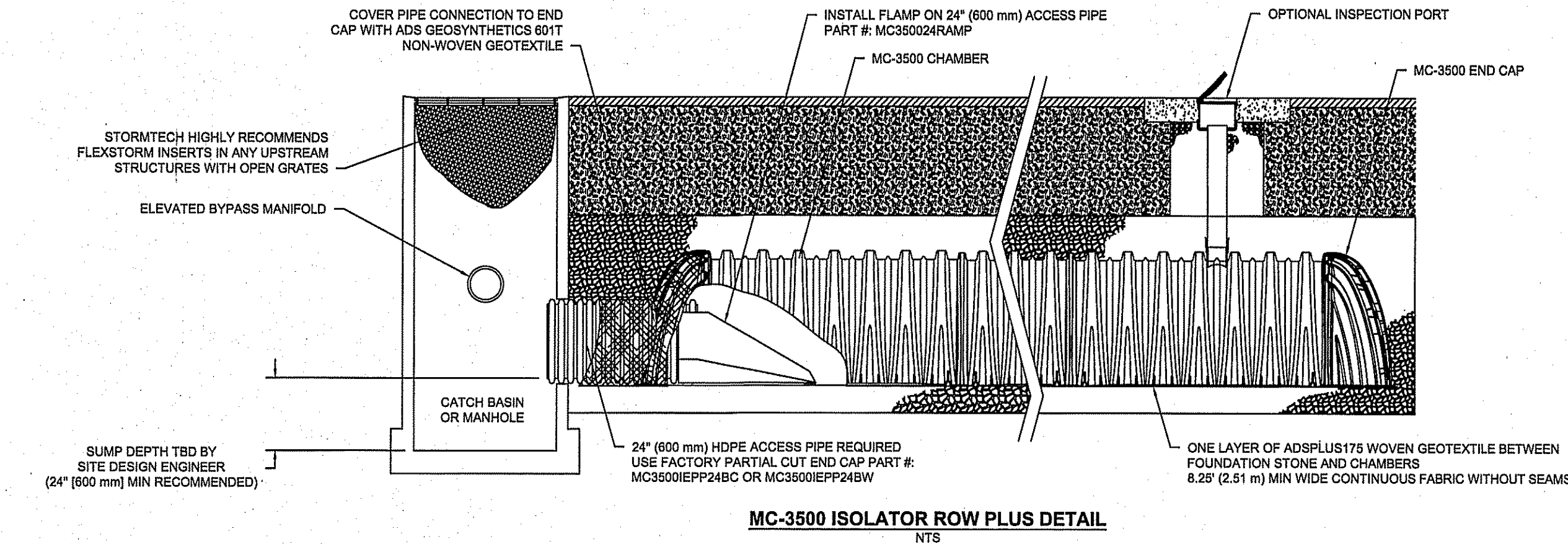
Drawn By: JLL Designed By: JLL Checked By: JLL

McCarty Engineering, Inc.
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Project Name
**Mack Devens
Development, LLC.**
18 Independence Drive
Ayer & Harvard, MA
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Sheet Title
**Construction
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Job No: 127.01.001 Sheet No:
File Name: 127.01.001P-DET04
Date: July 3, 2025
Scale: N.T.S.

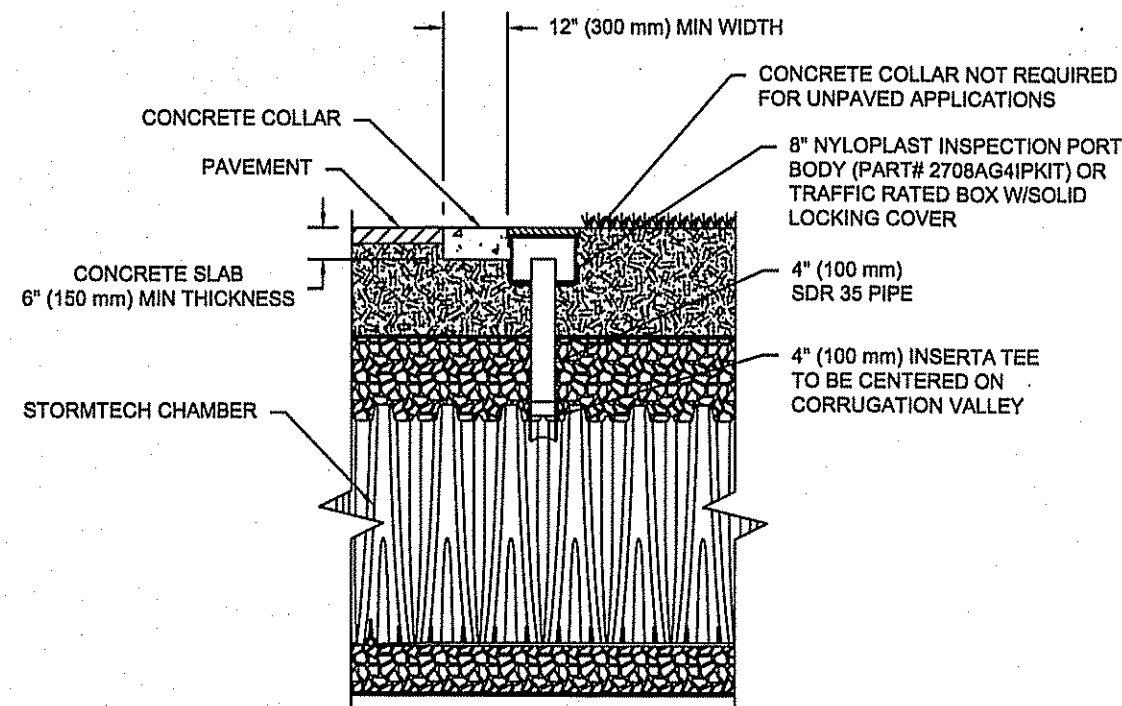


INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**
- INSPECTION PORTS (IF PRESENT)
 - REMOVE OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR PLUS ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS**
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.**
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.**

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



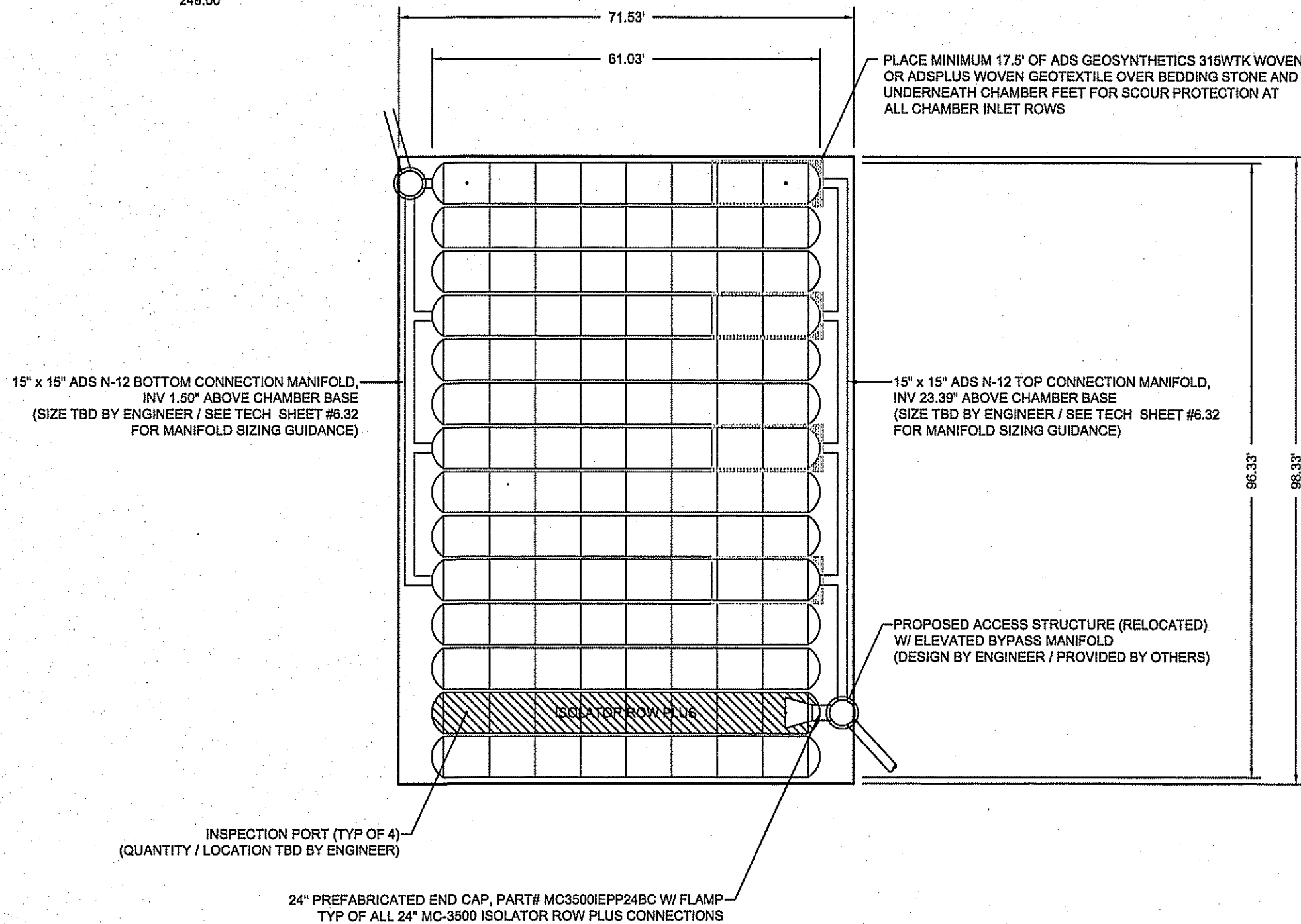
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CONCEPTUAL LAYOUT

(112) STORMTECH MC-3500 CHAMBERS
(28) STORMTECH MC-3500 END CAPS
INSTALLED WITH 12\"/>

PROPOSED ELEVATIONS

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	281.50
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	255.50
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	255.00
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	255.00
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	254.50
TOP OF STONE:	254.50
TOP OF CHAMBER:	253.50
15' TOP CONNECTION INVERT:	251.70
24" BOTTOM (ISOLATOR ROW PLUS) CONNECTION INVERT:	249.70
15' BOTTOM CONNECTION INVERT:	249.80
BOTTOM OF CHAMBER:	249.75
BOTTOM OF STONE:	249.00

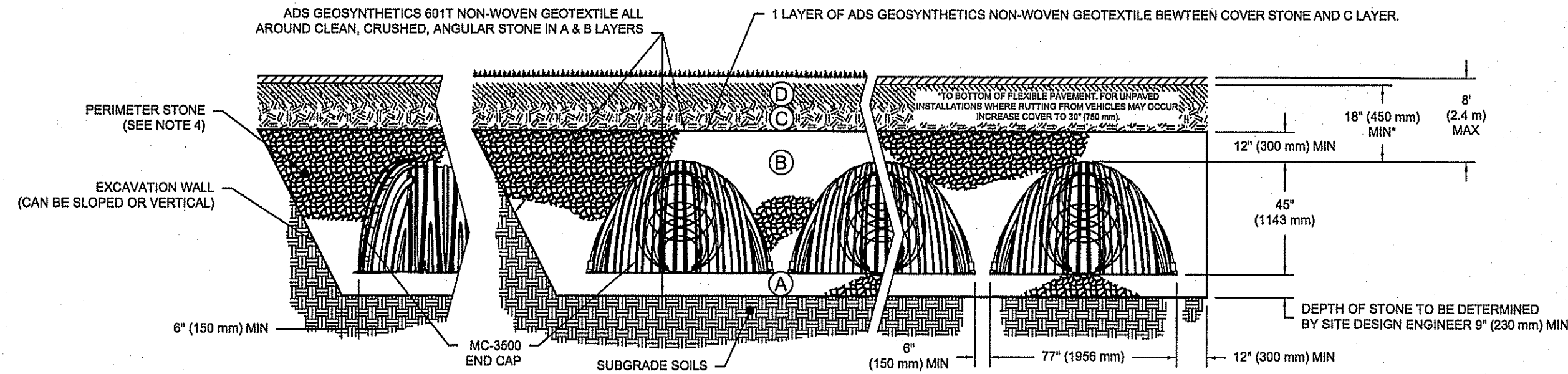


ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBERS. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <30% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M13 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 98% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9\"/>



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3\"/>

OWNER
MACK DEVENS
DEVELOPMENT, LLC.
330 SMC DRIVE
SOMERSET, WI 54025

ADS
ADVANCED DRAINAGE SYSTEMS, INC.

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FOR STORMTECH
INSTRUCTIONS,
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INSTALLATION APP



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MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3\"/>
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONES/HOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6\"/>

NOTES FOR CONSTRUCTION EQUIPMENT

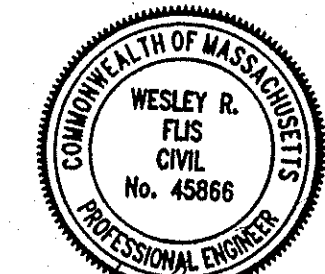
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36\"/>

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

APPROVED BY THE DEVENS
ENTERPRISE COMMISSION
DATE:

1	8/6/2025	Response to Comments
No.	Date	Revision



Drawn By: JLL
Designed By: JLL
Checked By: JLL

McCarty Engineering, Inc.
Civil Engineers
42 Tucker Drive, Leominster, MA 01453
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Project Name
Mack Devens Development, LLC.
18 Independence Drive
Ayer & Harvard, MA
(Devens, MA)

Sheet Title
Stormtech Detail
Sheet

Job No: 127.01.001
File Name: 127.01.001P-DET05
Date: July 3, 2025
Scale: N.T.S.

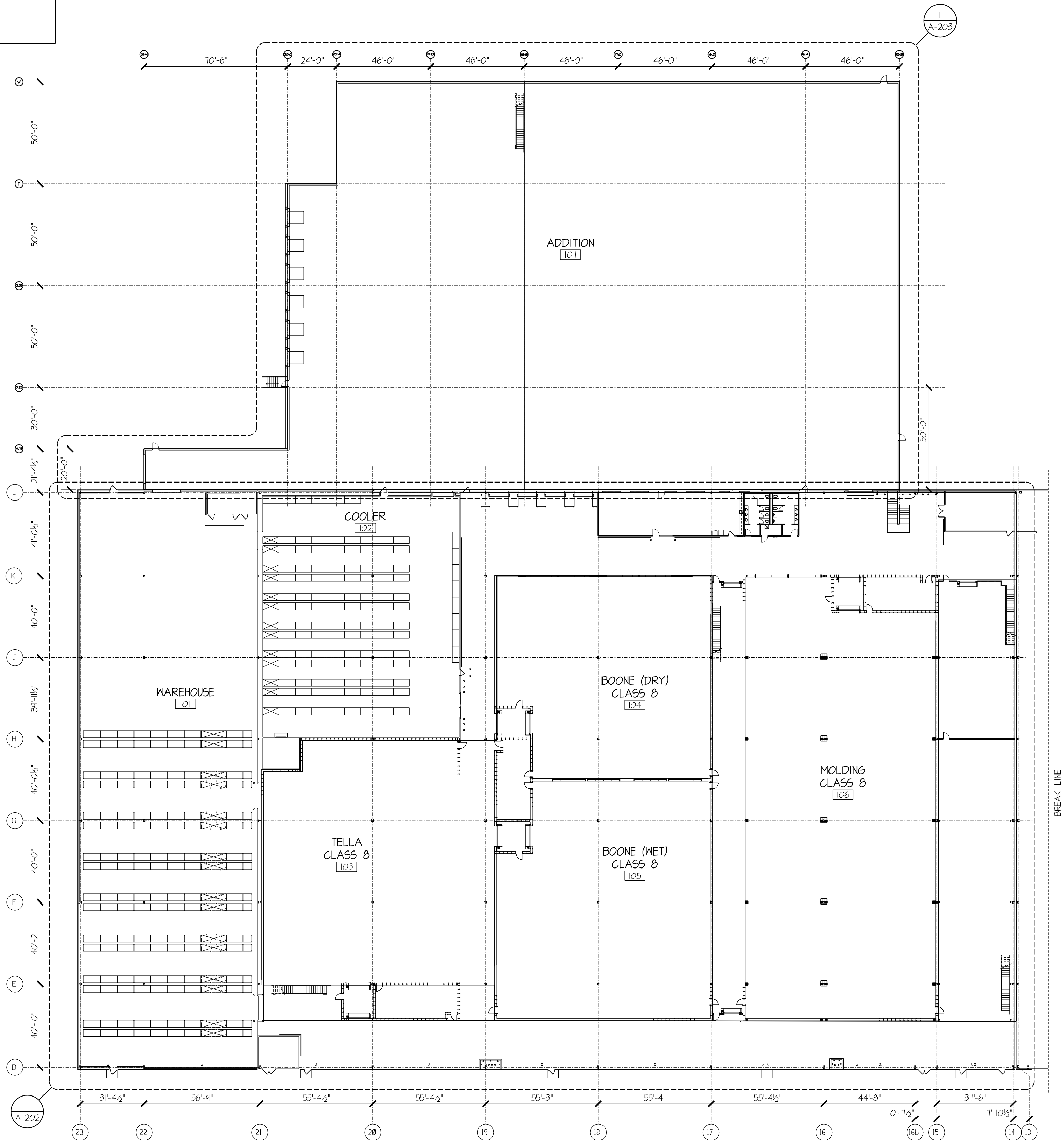
OWNER
MACK DEVENS
DEVELOPMENT, LLC.
300 SMC DRIVE
SOMERSET, WI 54025

APPROVED:

DATE:

DEVENS ENTERPRISE COMMISSION CHAIRMAN

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OVERALL FLOOR PLAN
SCALE: 1/32" = 1'-0"

SMC Ltd.

18 Independence Drive
Devens, MA

Renovation



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2 Fern Lane - Sterling, MA 01564
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42 Tucker Drive - Leominster, MA 01453
Tel: 978.534.8727



NO.	DATE	DESCRIPTION
4	06-30-25	GENERAL REVISIONS
3	06-27-25	GENERAL REVISIONS
2	02-26-25	GENERAL REVISIONS
1	01-23-25	GENERAL REVISIONS

SHEET TITLE:

OVERALL
MAIN FLOOR PLAN

Job No.: 24150

FILE:

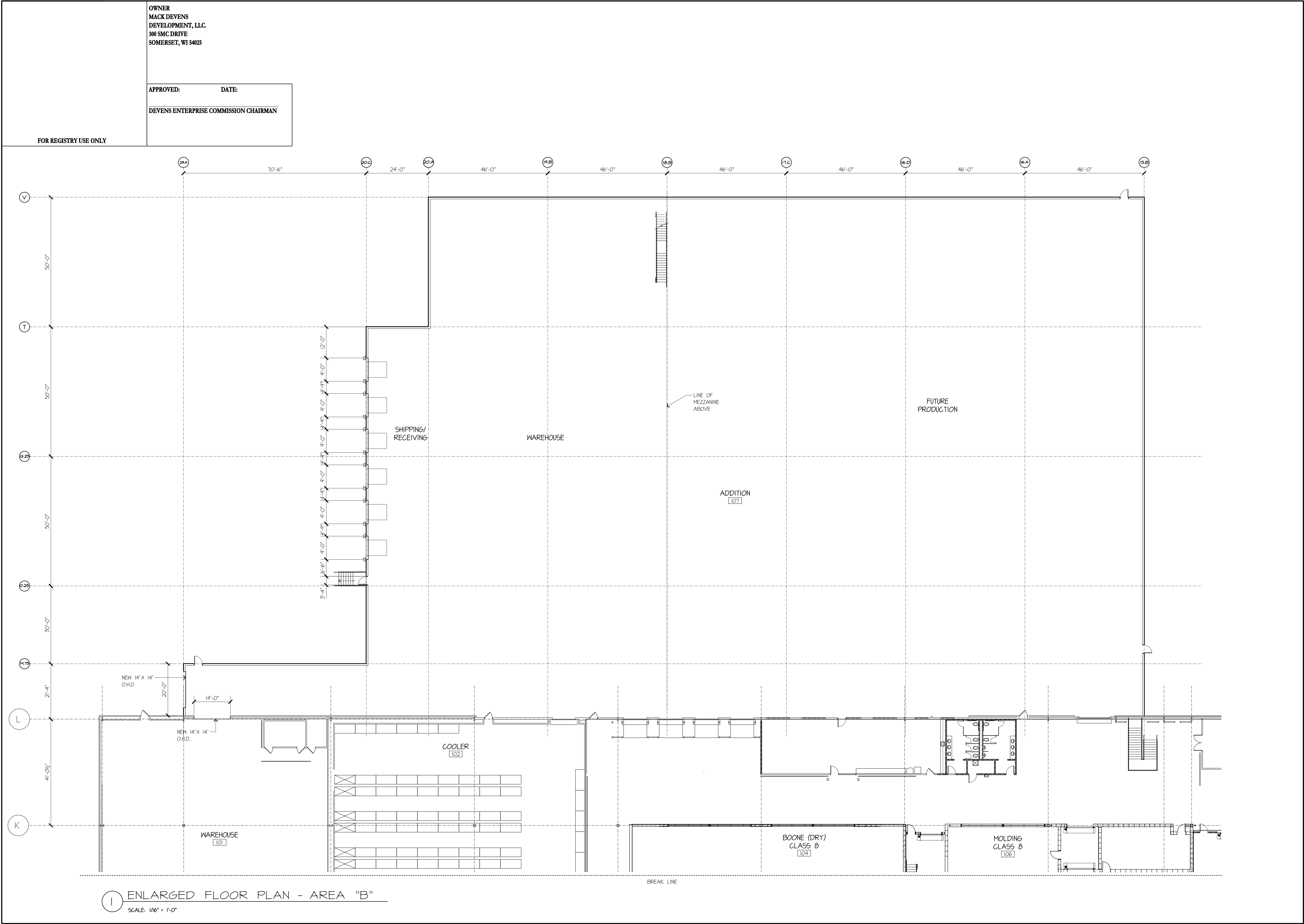
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DATE: 01/09/2025

SHEET IDENTIFICATION:

A-201



SMC Ltd.

18 Independence Drive
Devens, MA

Renovation

JFA

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McCARTY

companies

Total Project Solutions

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PROFESSIONAL ARCHITECT
MASSACHUSETTS
No. 20365
PITCHER, JR.
01/09/2025

3	06-27-25	GENERAL REVISIONS
2	02-26-25	GENERAL REVISIONS
1	01-23-25	GENERAL REVISIONS
NO.	DATE	DESCRIPTION

SHEET TITLE:

ENLARGED AREA "B"
FLOOR PLAN

Job No.:	24150
FILE:	
DRAWN:	
SCALE :	1/16" = 1'-0"
DATE:	01/09/2025

SHEET IDENTIFICATION:

A-203

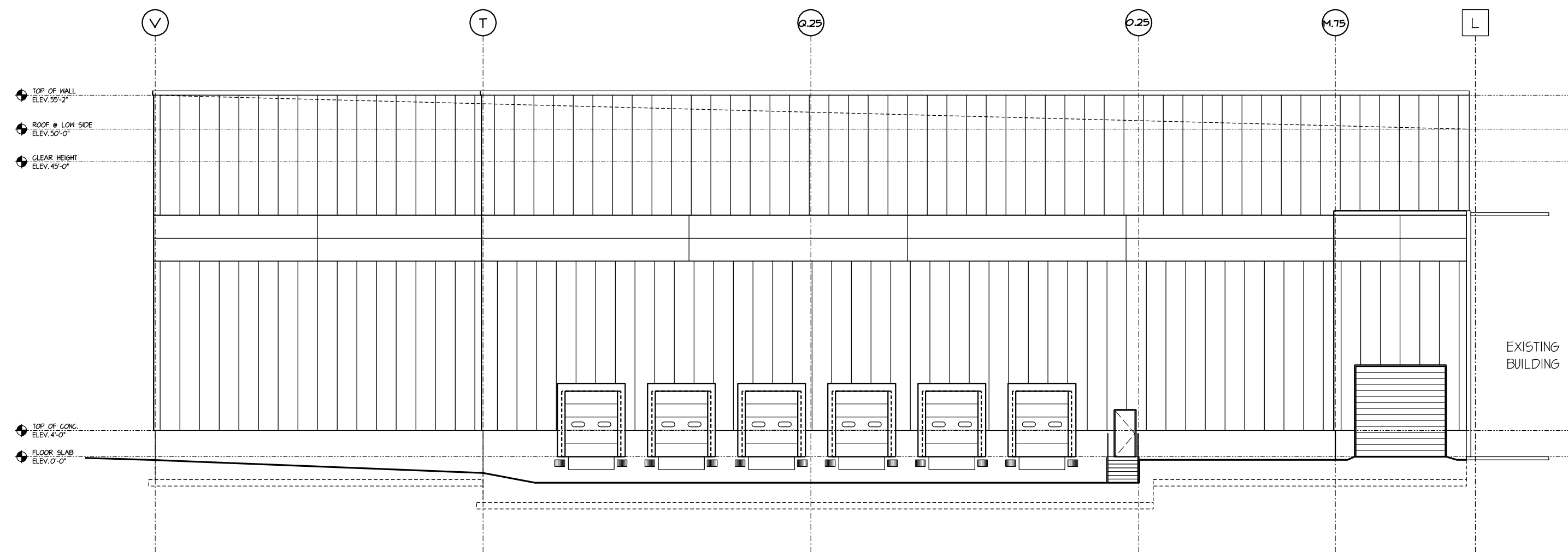
OWNER
MACK DEVENS
DEVELOPMENT, LLC.
300 SMC DRIVE
SOMERSET, WI 54025

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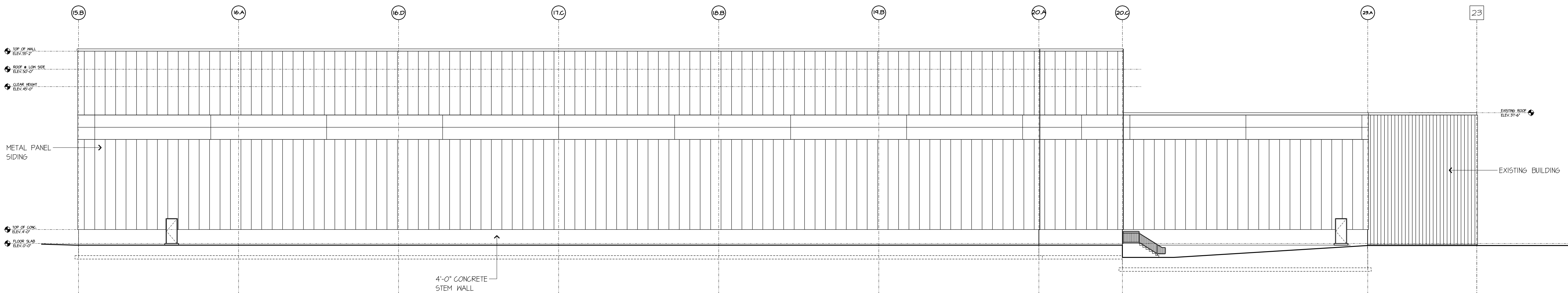
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DEVENS ENTERPRISE COMMISSION CHAIRMAN

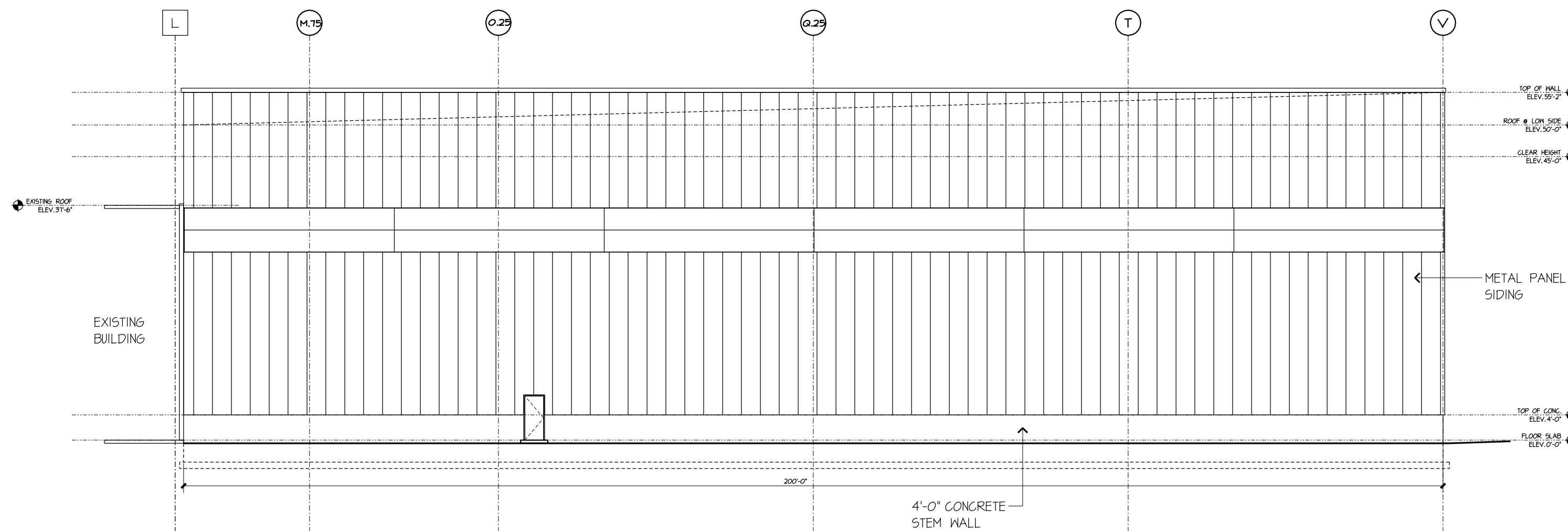
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3 SOUTH ELEVATION
SCALE: 1/16" = 1'-0"



2 WEST ELEVATION
SCALE: 1/16" = 1'-0"



1 NORTH ELEVATION
SCALE: 1/16" = 1'-0"

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Devens, MA

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NO.	DATE	DESCRIPTION
3	06-27-25	GENERAL REVISIONS
2	02-26-25	GENERAL REVISIONS
1	01-23-25	GENERAL REVISIONS

SHEET TITLE:

EXTERIOR
ELEVATIONS

Job No.:	24150
FILE:	
DRAWN:	
SCALE:	1/16" = 1'-0"
DATE:	01/09/2025

SHEET IDENTIFICATION:

A-301