

1. THIS PLAN IS REFERENCED HORIZONTALLY TO THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 AND VERTICALLY TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 BY RTK GPS OBSERVATIONS TAKEN ON JULY 24, 2022. SEE PLAN FOR PROJECT BENCHMARK LOCATION.
2. THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY PERFORMED FROM JUNE 10 THROUGH AUGUST 24, 2022.
3. UNDERGROUND UTILITIES ARE BASED UPON AN ACTUAL FIELD SURVEY AND INFORMATION OF RECORD. IT IS NOT WARRANTED THAT THEY ARE EXACTLY LOCATED, NOR THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES ARE SHOWN ON THIS PLAN. *CONTACT DIGSAFE 811 PRIOR TO ANY EXCAVATION. MAYNARD DPW DID NOT PROVIDE UTILITY INFORMATION WITHIN THE PUBLIC RIGHT OF WAYS AS OF THE DATE OF THIS PLAN.
4. ABUTTERS' NAMES REFER TO CURRENT TOWN OF MAYNARD ASSESSOR'S RECORDS.
5. THE SUBJECT LAND AS SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA, OR OTHER FLOOD AREA AS SHOWN ON FEMA NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) NUMBER 25017C0362F, HAVING AN EFFECTIVE DATE OF 7/07/2014.
6. WETLAND FLAGS WERE FIELD DELINEATED BY WETLAND MONITORING CONSULTANTS & RESTORATION, LLC ON JUNE 8, 2022.
7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH AND NO ATTEMPT TO SHOW OR REVEAL ANY FACTS THAT WOULD BE DISCLOSED BY ONE.
8. PROPERTY LINES SHOWN HEREON WERE DETERMINED FROM THE FOLLOWING PLANS OF RECORD FILED AT THE DEEDS/MIDDLESEX SOUTH COUNTY REGISTRY OF DEEDS:

- 1921 COUNTY LAYOUT OF GREAT ROAD
- 1951 COUNTY LAYOUT OF TAYLOR ROAD
- Plan No. 490 of 1936
- Plan Book 347, Plan 43
- Plan No. 922 of 1949
- Plan No. 215 of 1973
- Plan No. 249 of 1975
- Plan No. 43 of 2017

[illegible]

PROJECT PHASE

BID SET

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

TOWN OF MAYNARD
GREEN MEADOW
ELEMENTARY SCHOOL
EARLY SITE
PREPARATION
PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

TIGER DRIVE
RAYNARD, MA. 0175

DRAWING TITLE

SITE SURVEY PLAN

35 Center St.
Chicopee, Massachusetts 01013

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CAMP

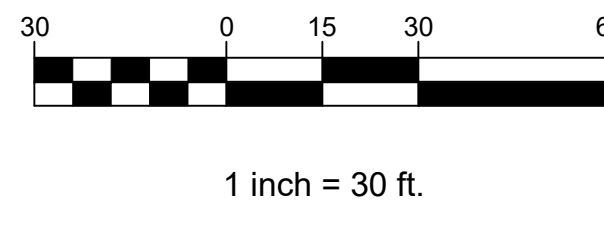
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SCALE	NOTED
DRAWN BY	RAG
CHECKED	DFF
DATE	MAY 22, 2024

DRAWING NUMBER 5204

EX-1

SHEET 1 OF 4



DRAWING NUMBER 52047

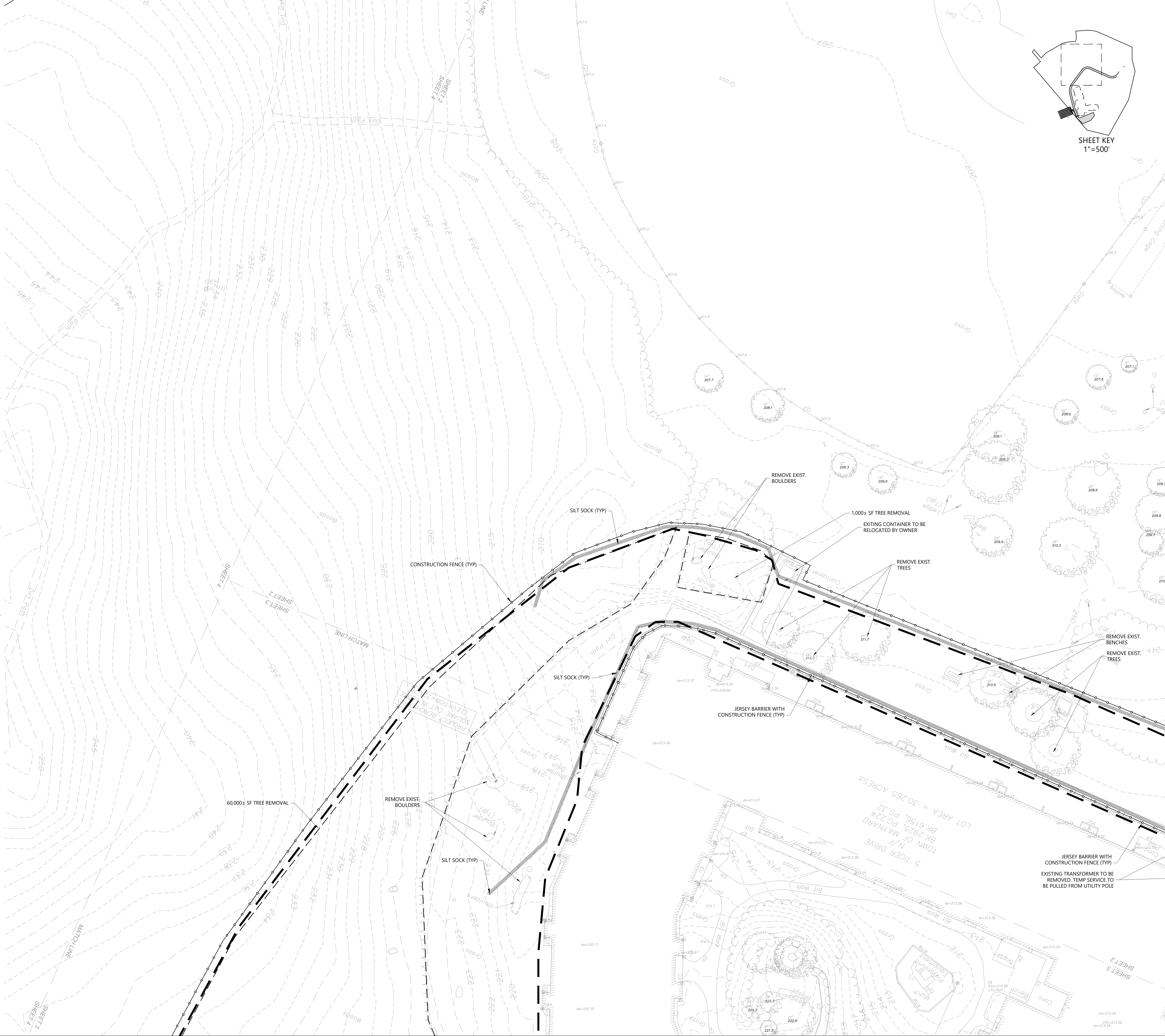
EX-3

SHEET 3 OF 4

1. APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.

- PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON AND OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE CITY.
- 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 AREAS OUTSIDE THE SITE 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 $\frac{1}{2}$ TO THE HEIGHT OF THE EROSION CONTROL.
- DIVERT RUNOFF FROM OFFSITE AND UNDISTURBED AREAS AWAY FROM CONSTRUCTION TO MINIMIZE SOIL EROSION AND SEDIMENTATION ON AND OFF SITE. TEMPORARILY STABILIZE ALL HIGHLY ERODIBLE SOILS AND SLOPES IMMEDIATELY.
- LAND DISTURBANCE ACTIVITIES EXCEEDING TWO ACRES IN SIZE SHALL NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES STORMWATER CONTROLS TO BE INSTALLED AND EXPOSED SOILS STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. A CONSTRUCTION PHASING PLAN, INCLUDING EROSION AND SEDIMENT CONTROL PLAN FOR EACH PHASE, SHALL BE SUBMITTED TO THE CITY PRIOR TO ANY CONSTRUCTION ON THE SITE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
- SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 3:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROL.
- DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
- PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM OCTOBER TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, AN APPROPRIATE TEMPORARY SLOPE AND/OR NON-ASPHALTIC SOIL TACKIFIER WITH WINTER RYE SHALL BE APPLIED. PERMANENT SEEDING SHALL BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
- TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL ENTRANCE/EXIT POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE. DUST SHALL ALSO BE CONTROLLED AT THE SITE.
- ALL SLOPES STEEPER THAN 3:1 (HV, 33.3%) AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, OR EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOIL, 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 STABILIZATION. CONSTRUCTION STORMWATER MANAGEMENT FACILITIES, ALL FACILITIES USED FOR TEMPORARY MEASURES SHALL BE CLEANED AND RE-STABILIZED 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.

1. THE CONTRACTOR SHALL MITIGATE ALL DEMOLITION AND CONSTRUCTION DUST GENERATED ON THE PROJECT SITE REGARDLESS OF THE ACTIVITY BEING PERFORMED.
2. THE CONTRACTOR SHALL PROVIDE WATER FOR DUST CONTROL AND PUMPS AND HOSES ON SITE AT ALL TIMES TO MANAGE DUST DURING AND AFTER DEMOLITION.
3. THE CONTRACTOR SHALL EMPLOY TECHNIQUES SUCH AS WET SWEEPING, WATERING DOWN WITH HOSES AND PREEMPTIVE CLEANING TO MITIGATE DUST GENERATION FROM ALL OPERATIONS.
4. SAW CUTTING SHALL BE DONE USING SAWS THAT ARE EQUIPPED WITH SPRAY ATTACHMENTS THAT WILL ADEQUATELY WET DEBRIS GENERATED FROM CUTTING FROM BECOMING AIR-BORN.

[illegible]

BID SET

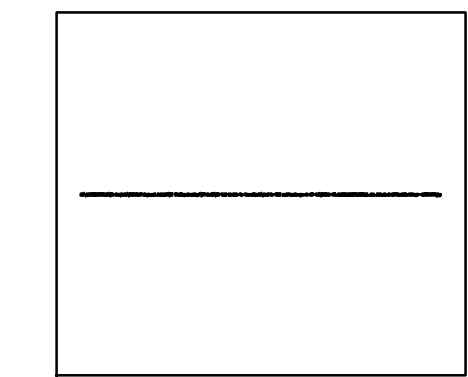
PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

GREEN MEADOW
ELEMENTARY SCHOOL
EARLY SITE
PREPARATION
PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

DRAWING TITLE
DEMO PLAN



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DRAWING INFORMATION	
SCALE	As indicated
DRAWN BY	CG
CHECKED	CE
DATE	MAY 22, 2024

DRAWING NUMBER

C-01.2

1. REFER TO DRAWING C-01 FOR EROSION CONTROL NOTES. THESE NOTES SHALL APPLY TO THE FINAL SITE CONDITION.
2. APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKING SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
3. PERIMETER SEDIMENT CONTROL SYSTEM AS SHOWN ON THIS DRAWING AND ON THE DEMOLITION PLAN SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON SITE AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM AREAS NOT TO BE DISTURBED. UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE CITY.
4. ADDED MEASURES TO CONTROL EROSION ARE ADDED TO THIS DRAWING TO PREVENT EROSION WITHIN THE PROJECT AREA AND TO CONTROL SEDIMENT TO THE PROPOSED LOWER POND AND THE OUTFALL PIPING BEING INSTALLED DURING THIS PROJECT AND TO BE MAINTAINED AS PART OF THE FINAL SITE.
5. ALL OFF SITE AREAS AND DRAIN INLETS SHALL BE PROTECTED FROM SEDIMENT DURING AND AFTER DEMOLITION AND CONSTRUCTION WORK.
6. ALL SEDIMENT COLLECTION SYSTEMS INCLUDING BUT NOT LIMITED TO: SILT FENCES, SILT FENCE CHAINS, CATCH BASIN SILT SACKS, STRAIN WATTLES, LOWER POND FORE-BAY, POND BOTTOM SEDIMENT STRUCTURES SHALL BE MAINTAINED TO THE SET STRUCTURE AND DRAIN PIPING AND STRUCTURES SHALL BE CLEANED.
7. ALL BROKEN, DAMAGED OR CLOGGED SEDIMENT CONTROL DEVICES SHALL BE REPAIRED AS REQUIRED. THE OWNER'S REPRESENTATIVE ONCE BUILDING AND SITE DEMOLITION AND ALL PROPOSED CONSTRUCTION IS COMPLETED.

1. THE CONTRACTOR SHALL MITIGATE ALL DEMOLITION AND CONSTRUCTION DUST GENERATED ON THE PROJECT SITE REGARDLESS OF THE ACTIVITY BEING PERFORMED.
2. THE CONTRACTOR SHALL PROVIDE WATER FOR DEMOLITION AND CONSTRUCTION PURPOSES BY EITHER SUPPLYING WATER OR COORDINATING A TEMPORARY WATER CONNECTION WITH THE CITY WATER DEPARTMENT.
3. ALL COSTS ASSOCIATED WITH PROVIDING WATER OR PROVIDING A TEMPORARY WATER SERVICE AND DISCONNECTION SHALL BE INCLUDED IN THE BASE PRICE FOR THE CONTRACT, INCLUDING ANY COSTS ASSOCIATED WITH WATER METERS AND BACK FLOW DEVICES REQUIRED BY THE CITY WATER DEPARTMENT.
4. THE CONTRACTOR SHALL EMPLOY TECHNIQUES SUCH AS WET SWEEPING, WATERING DOWN WITH HOSES AND PREVENTIVE CLEANING TO MITIGATE DUST GENERATION FROM ALL OPERATIONS.
5. SAW CUTTING SHALL BE DONE USING SAWS THAT ARE EQUIPPED WITH SPRAY ATTACHMENTS THAT WILL ADEQUATELY WET DEBRIS GENERATED FROM CUTTING FROM BECOMING AIR-BORN.

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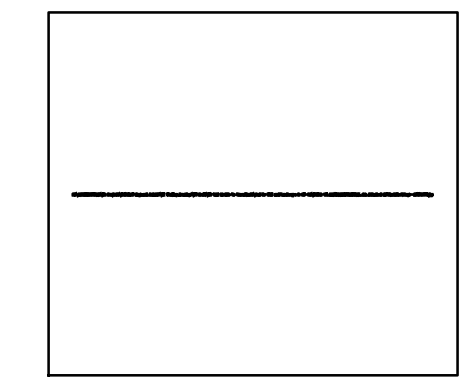
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TOWN OF MAYNARD

GREEN MEADOW ELEMENTARY SCHOOL EARLY SITE PREPARATION PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

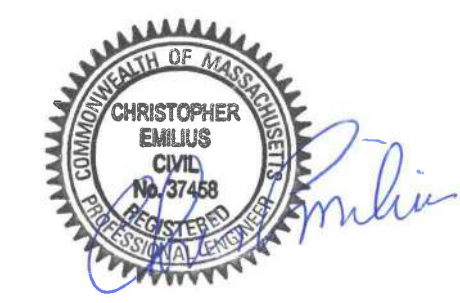
SITE PREPARATION PLAN



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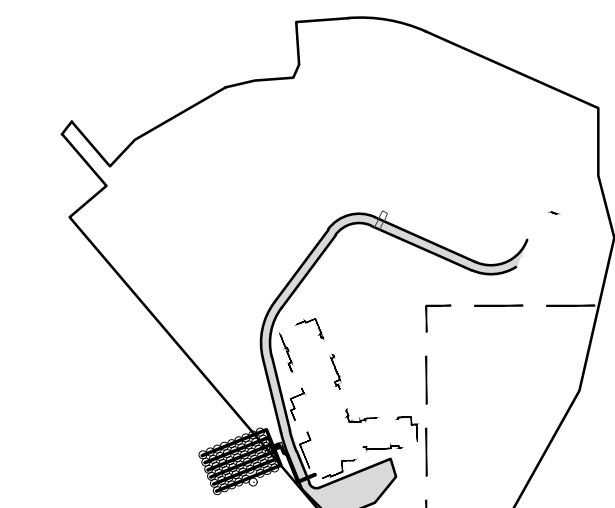
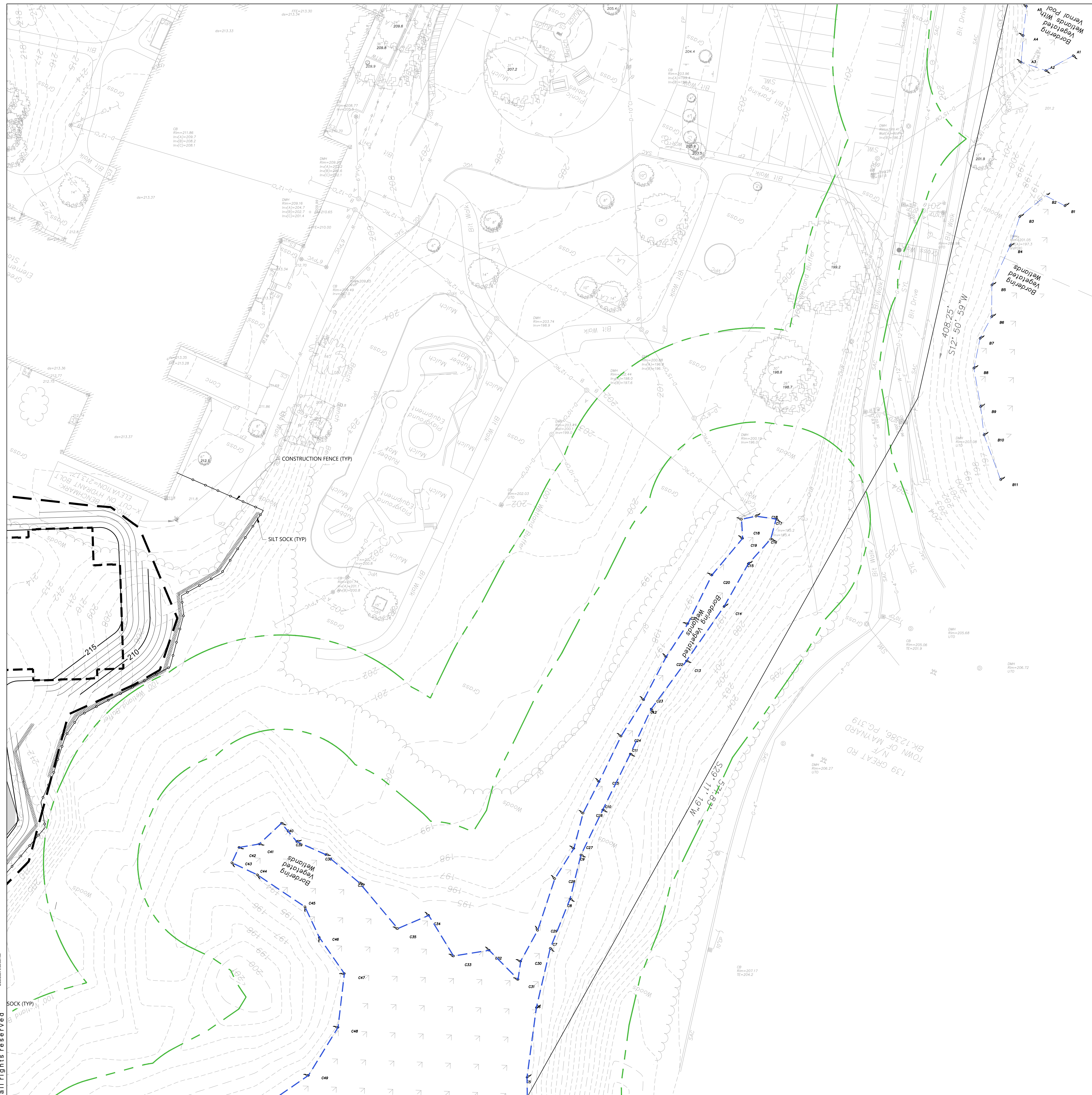
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DATE MAY 22, 202

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C-02.2

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PROJECT PHASE	
BID SET	

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

TOWN OF MAYNARD

GREEN MEADOW
ELEMENTARY SCHOOL
EARLY SITE
PREPARATION
PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

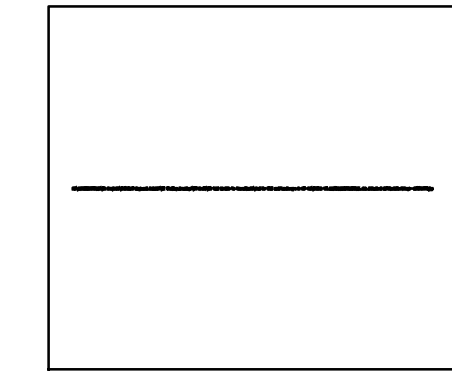
GREEN MEADOW ELEMENTARY SCHOOL EARLY SITE PREPARATION PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

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SITE PREPARATION PLAN


SITE PREPARATION PLAN



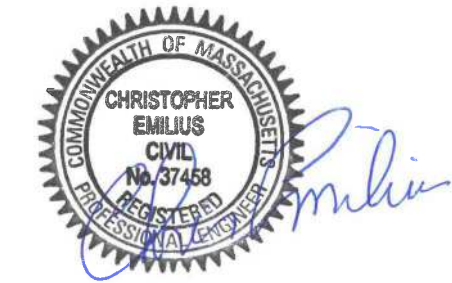
264 Exchange Street,
Suite G7
Chicopee, Massachusetts 01013

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CHRISTOPHER EMILIUS CIVIL
No. 37438
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JAN 14 2009



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DATE	MAY 22, 2024

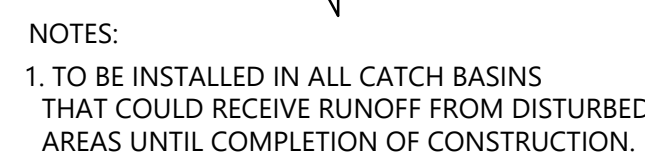
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DATE	MAY 22, 2024

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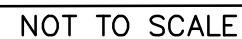
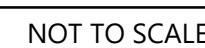
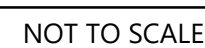
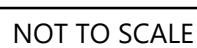


CONSTRUCTION SPECIFICATIONS

1. JUTE MESH FOR POND SIDE SLOPES AND PERMANENT SLOPES SHALL BE 100% JUTE 15 OZ./SQ.YD. LOOSELY WOVEN AND BIODEGRADABLE.
2. JUTE MESH SHALL BE MADE OF DEGRADABLE (LASTS 6 MONTHS MAX.) NATURAL FIBERS. MESH STRANDS MUST HAVE UNIFORM THICKNESS AND STRANDS SHALL BE EVENLY SPACED IN BOTH DIRECTIONS.
3. SECURE MATTING USING STEEL OR BIODEGRADABLE STAPLES, SPACED AT LEAST 12 INCHES ON CENTER.
4. PERFORM FINAL GRADING, TOPSOIL APPLICATION, SEEDBED PREPARATION, AND PERMANENT SEEDING IN ACCORDANCE WITH SPECIFICATIONS. PLACE MATTING WITHIN 48 HOURS OF COMPLETING SEEDING OPERATIONS UNLESS END OF WORKDAY STABILIZATION IS SPECIFIED ON THE APPROVED EROSION & SEDIMENT CONTROL PLAN.
5. UNROLL MATTING DOWN-SLOPE. LAY MAT SMOOTHLY AND FIRMLY UPON THE SEEDED SURFACE. AVOID STRETCHING THE MATTING.
6. OVERLAP OR ABUT ROLL EDGES PER MANUFACTURER RECOMMENDATIONS. OVERLAP ROLL ENDS BY 6 INCHES (MINIMUM), WITH THE UP-SLOPE ROLL OVERLAPPING ON TOP OF THE DOWN-SLOPE MAT.
7. KEY IN THE UP-SLOPE END OF MAT 6 INCHES (MINIMUM) BY DIGGING A TRENCH, PLACING THE MATTING ROLL END IN THE TRENCH, STAPLING THE MAT IN PLACE, REPLACING THE EXCAVATED MATERIAL, AND TAMPING TO SECURE THE MAT END IN THE KEY.
8. STAPLE/STAKE MAT IN A STAGGERED PATTERN ON 4 FOOT (MAXIMUM) CENTERS THROUGHOUT AND 1 FOOT (MAXIMUM) CENTERS ALONG SEAMS, JOINTS, AND ROLL ENDS.
9. ESTABLISH AND MAINTAIN VEGETATION SO THAT REQUIREMENTS FOR ADEQUATE VEGETATIVE ESTABLISHMENT ARE CONTINUOUSLY MET IN ACCORDANCE LANDSCAPE PLANS AND SPECIFICATIONS.

TEMPORARY SOIL STABILIZATION JUTE MESH SLOPE APPLICATION

NOT TO SCALE

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PROJECT PHASES

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PROJECT NUMBER

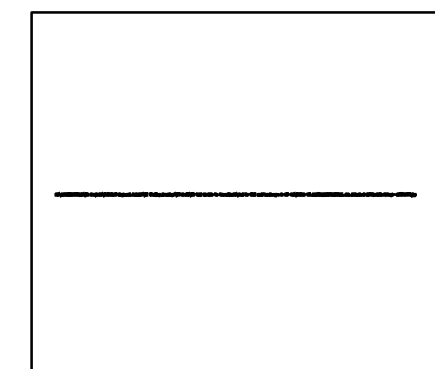
OWNER / PROJECT NAME / LOCATION

TOWN OF MAYNARD
GREEN MEADOW
ELEMENTARY SCHOOL
EARLY SITE
PREPARATION
PACKAGE

5 TIGER DRIVE
MAYNARD, MA 01754

DRAWING TITLE

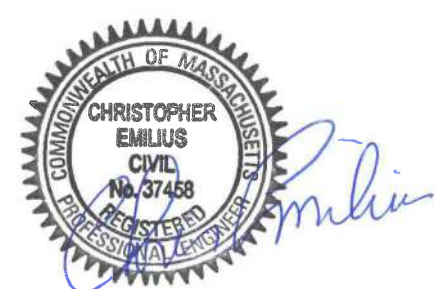
DETAILS



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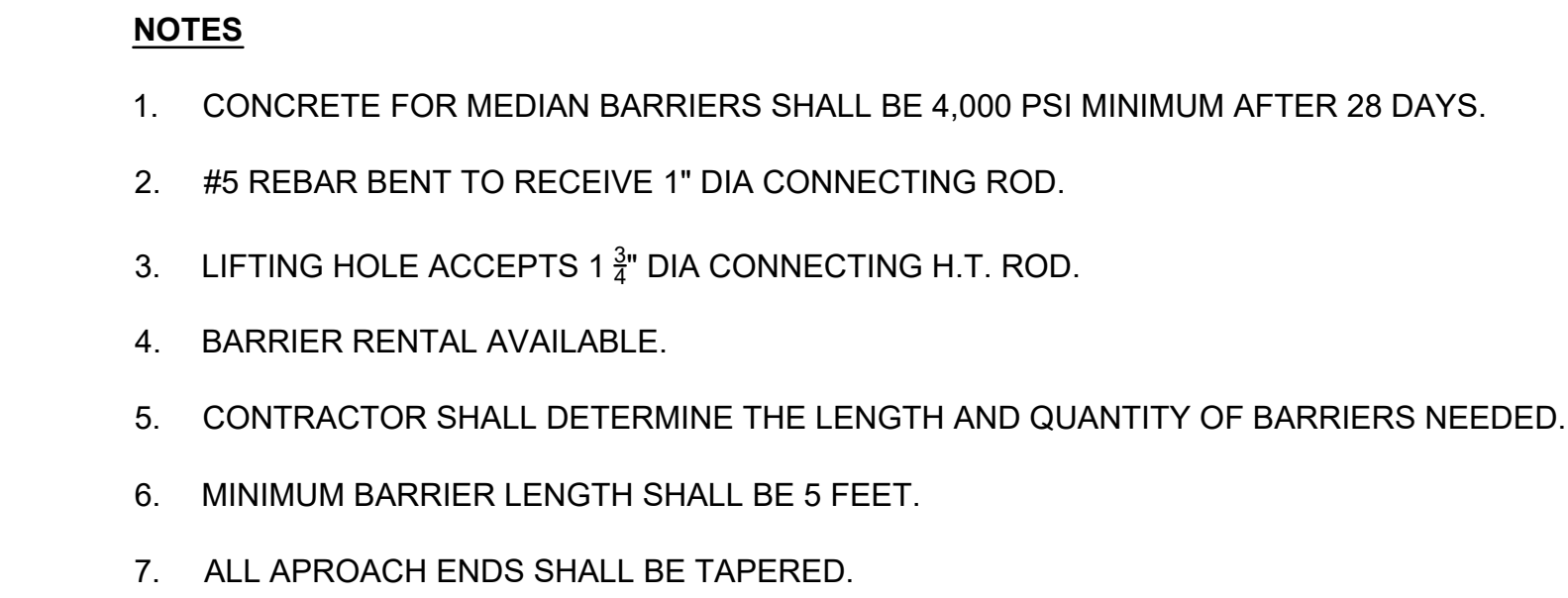
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DATE MAY 22, 2024

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DT-01



PROJECT PHASE
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PROJECT NUMBER _____

OWNER / PROJECT NAME / LOCATION

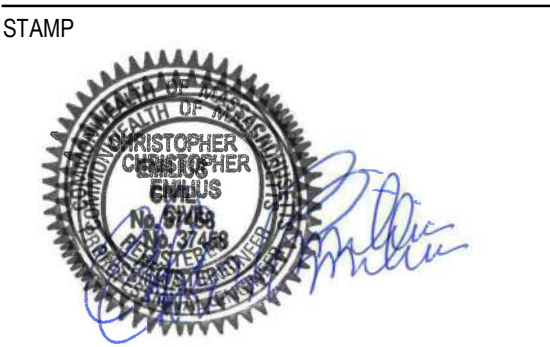
TOWN OF MAYNARD

GREEN MEADOW
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MAYNARD, MA 01754

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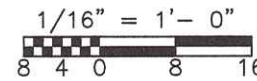
DETAILS



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DATE	MAY 22, 2024

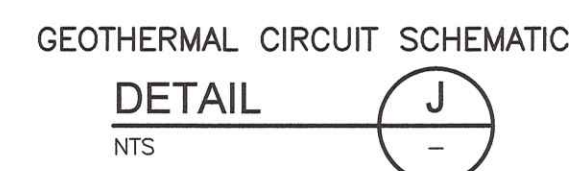
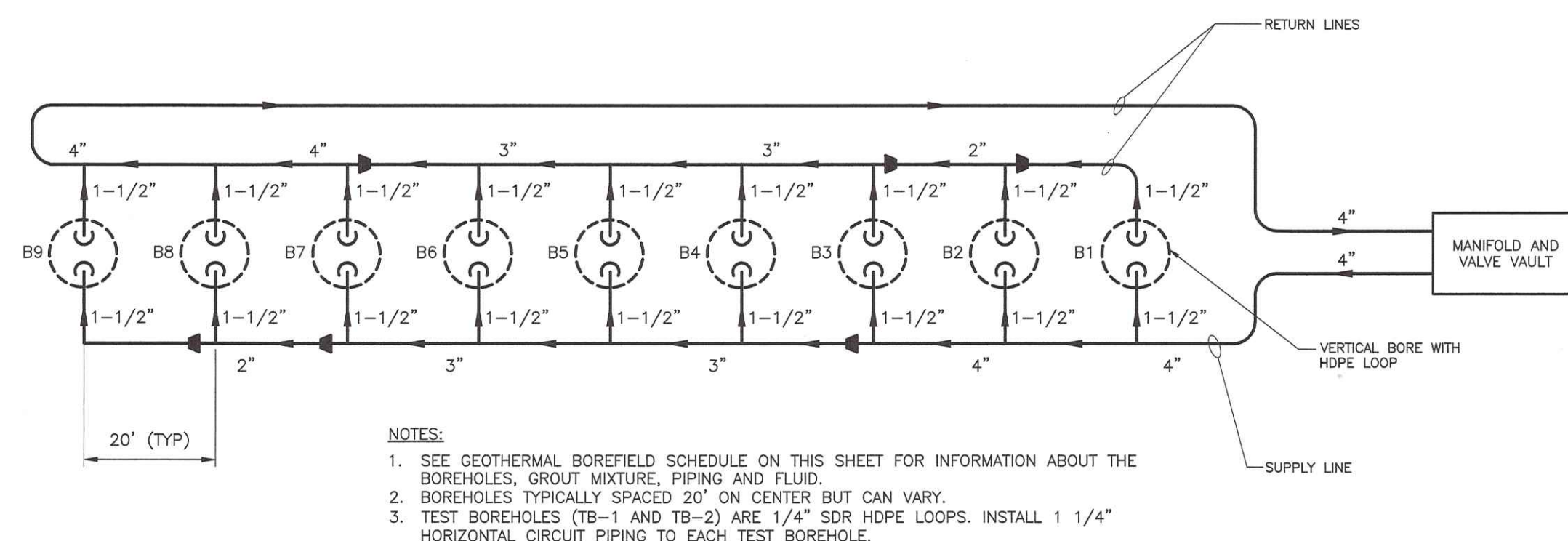
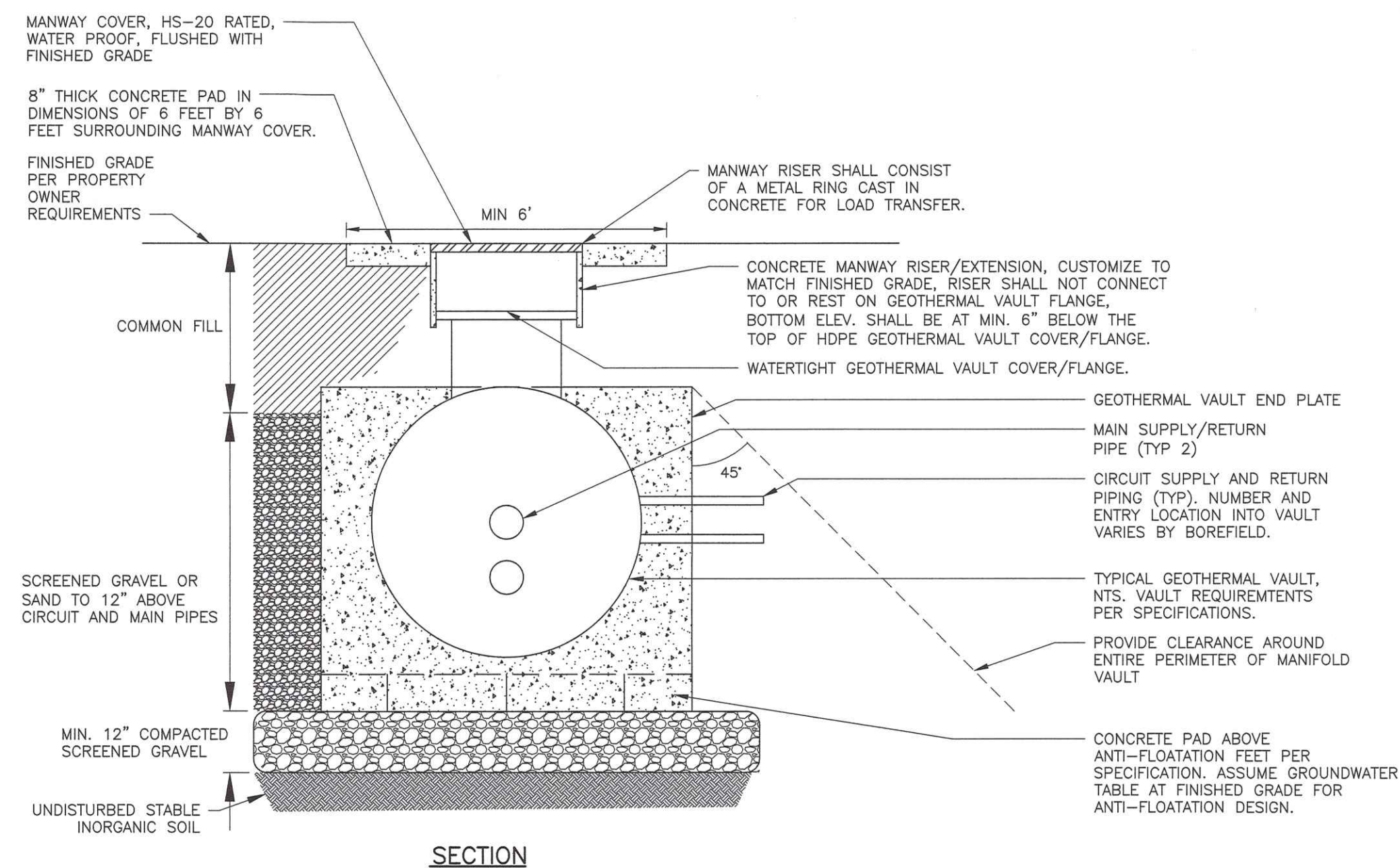
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BOREFIELD SCHEDULE	
GEO THERMAL BOREHOLES	
NUMBER OF BORES / LOOPS	54
BORE / LOOP DEPTH	604 FT. EA.
NUMBER OF CIRCUITS	6
NUMBER OF LOOPS PER CIRCUIT	9
GROUT MIXTURE	
GROUT TYPE	THERMALLY ENHANCED BENTONITE
GROUT MIN. THERMAL CONDUCTIVITY	1.6 BTU/HR-FT-F
GEO THERMAL PIPE	
LOOP TYPE	1-1/2" SDR 11 HDPE
REVERSE/RETURN CIRCUIT PIPE SIZES	4", 3", 2", 1-1/2"
HEADER PIPE SIZE	8"
PIPE MATERIAL (REVERSE/RETURN CIRCUIT)	HDPE SDR-11
PIPE MATERIAL (LOOP)	HDPE (PE4710) SDR-11
FLUID INFORMATION	
FLUID	25% PROPYLENE GLYCOL
MINIMUM ENTERING WATER TEMPERATURE	40°F
MAXIMUM ENTERING WATER TEMPERATURE	90°F
CIRCUIT A MAX FLOWRATE	153 GPM
CIRCUIT B MAX FLOWRATE	139 GPM
CIRCUIT C MAX FLOWRATE	153 GPM
CIRCUIT D MAX FLOWRATE	153 GPM
CIRCUIT E MAX FLOWRATE	153 GPM
CIRCUIT F MAX FLOWRATE	139 GPM
MINIMUM CIRCUIT FLUSHING FLOWRATE	158 GPM ~ 4 FT/S
PEAK FLOW ~ BOREFIELD PRESSURE HEAD LOSS	890 GPM ~ 65 FT. H2O

**CDM
Smith**
75 State Street, Suite 701
Boston, MA 02109
Tel: (617) 452-6000

[illegible]

PROJECT PHASE

BID SET

PROJECT NUMBER

OWNER / PROJECT NAME / LOCATION

TOWN OF MAYNARD
GREEN MEADOW
ELEMENTARY SCHOOL
EARLY
SITE PREPARATION
PACKAGE
5 TIGER DRIVE
MAYNARD, MA 01754

DRAWING TITLE
GEOTHERMAL DETAILS II

MOUNT VERNON GROUP
ARCHITECTS

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DRAWING INFORMATION

SCALE	As indicated
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DRAWN BY JK

CHECKED JJ

DATE MAY 22, 2024

DRAWING NUMBER

GT-201