SITE DATA

LOT AREA (LOT 2-1): **DEVELOPMENT AREA (LOT 2-1)** PARCEL "A"

APPROXIMATE WATER USE: SEWAGE DISPOSAL: APPROXIMATE SEWAGE FLOW: ZONING DISTRICT:

OVERLAY DISTRICT: PROPOSED GFA: **BUILDING A**

BUILDING B

8,000 SF **BUILDING C** 8,000 SF

7.95 AC. (346,416± SF) 3.08 AC. (133,963± SF) WATER SUPPLY: PUBLIC WATER SUPPLY 1,600 GPD ONSITE SEWAGE DISPOSAL SYSTEM 1,600 GPD COMMERCIAL - C WIRELESS COMMUNICATION

29,998 SF

11.03± AC. (480,379± SF)

45,998 SF (13.2% OF 346,416 SF)

GENERAL NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- 2. UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND.
- 3. BURIED UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE COMPANY SPECIFICATIONS.
- CONSTRUCTION LAYOUT OF BUILDING AND SITE IMPROVEMENTS SHALL BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR. LOCATIONS OF EXISTING FEATURES OR PROPOSED IMPROVEMENTS DERIVED BY SCALING DRAWINGS MAY NOT BE ACCURATE. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE. SEE PLAN REFERENCE HEREON.
- SAFETY MEASURES, CONSTRUCTION METHODS, AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF CONTRACTOR.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING UTILITY OR STRUCTURE DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND/OR REMOVAL HEREON. DAMAGED UTILITY OR STRUCTURE SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL NOTIFY ENGINEER UPON COMMENCEMENT OF CONSTRUCTION IN ORDER TO ENSURE THAT REQUIRED INSPECTIONS ARE PERFORMED IN A TIMELY AND EFFICIENT MANNER.
- 9. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER UPON DISCOVERY OF ANY UNFORESEEN SURFACE OR SUBSURFACE CONDITIONS THAT MAY IMPACT SITE CONSTRUCTION.
- 10. FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED
- 11. WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ABANDONED, LINES/STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS.
- 12. EROSION CONTROL MEASURES, SUCH AS SILT FENCE OR STRAW WATTLES AS MAY BE SHOWN HEREON, SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS WITHIN BUFFER ZONE, AND SHALL SERVE AS THE LIMIT OF WORK.
- 13. WHERE THE WORD "INSTALL" IS USED HEREIN, IT IS INTENDED TO DIRECT CONTRACTOR TO "FURNISH, INSTALL, AND PLACE IN OPERATION" THE COMPONENT REFERRED TO.
- 14. LIMITS OF WORK SHALL BE STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 15. ALL STORM DRAIN PIPE TO BE SMOOTH INTERIOR HDP PIPE, 2.0 PSI GASKETED JOINT, UNLESS OTHERWISE NOTED.
- 16. WHERE SHOWN, CONSTRUCTION NOTES ARE INTENDED TO SUMMARIZE AND CLARIFY MAJOR ITEMS OF WORK, THESE NOTES SHOULD NOT BE CONSTRUED AS AN EXHAUSTIVE LISTING OF ALL WORK REQUIRED. CONTRACTOR SHOULD CONTACT ENGINEER WHEN FURTHER CLARIFICATION OF DEPICTED WORK IS DESIRED.
- 17. CONSTRUCTION OF FIRE WATER SUPPLY IMPROVEMENTS SHALL CONFORM TO TOWN OF HARVARD REQUIREMENTS.
- 18. CONSTRUCTION OF DOMESTIC WATER SUPPLY IMPROVEMENTS SHALL CONFORM TO UTILITY OWNER REQUIREMENTS.
- 19. WHERE DIMENSIONS INVOLVE CURB, DIMENSIONS ARE TO FACE OF CURB, WHERE SLOPED GRANITE CURB OR CAPE COD BERM SPECIFIED, FACE OF CURB IS EDGE OF FINISH PAVEMENT AT TOE OF CURB.
- 20. NO DEBRIS, JUNK, RUBBISH OR OTHER NON-BIODEGRADABLE MATERIALS, FILL CONTAINING HAZARDOUS MATERIALS OR

REGULATORY NOTES

- CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 888.344.7233 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL GIVE TWENTY-FOUR (24)-HOUR NOTICE TO PERTINENT TOWN DEPARTMENTS BEFORE COMMENCING ANY WORK IN THE FIELD.
- CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES.
- CONTRACTOR SHALL BE AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK.
- 4. ALL WORK OUTSIDE OF BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF BUILDING FOUNDATION SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- GENERAL COMPLIANCE WITH 28 CFR PART 36 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 521 CMR PART C, EXTERIOR OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS IS INTENDED. CONTRACTOR SHALL VERIFY COMPLIANCE DURING CONSTRUCTION AND SHALL NOTIFY THE OWNER OF ANY NON-COMPLIANCE ISSUES AS SOON AS

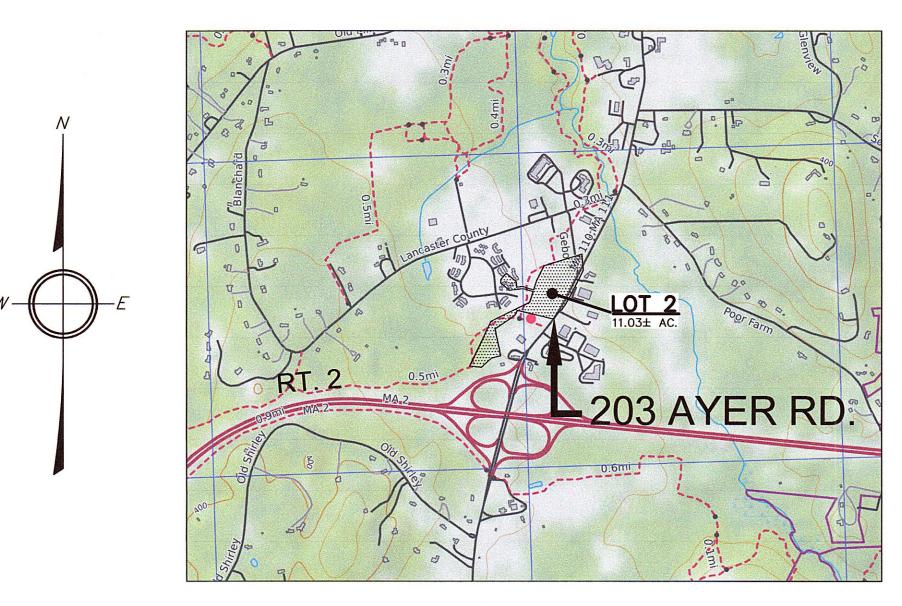
PLAN REFERENCES

- 1. "SUBSURFACE SEWAGE DISPOSAL SYSTEM-UPGRADE-203 AYER ROAD, HARVARD, MA" PREPARED FOR WHEELER REALTY TRUST BY GOLDSMITH, PREST & RINGWALL, INC. DATED FEBRUARY 2022. GPR JOB #201009A.
- 2. "SUBSURFACE SEWAGE DISPOSAL SYSTEM FOR: LOT 2 AYER ROAD, HARVARD MA" DESIGNED FOR GEBO LANE REALTY TRUST & BERNICE TAVERAS. BY GOLDMSITH, PREST & RINGWALL, INC. DATED MARCH 1998. GPR JOB #97-264.
- "LOT 2, AYER ROAD, SEWAGE DISPOSAL WORKS CONSTRUCTION PERMIT" ISSUED BY THE HARVARD BOARD OF HEALTH. OWNED BY BERNICE TAVERAS & GEBO LANE REALTY TRUST. DATED JULY 10, 1998.
- 4. "PARTIAL CONSTRUCTION RECORD PLAN-SUBSURFACE SEWAGE DISPOSAL SYSTEM-LOT 2 AYER ROAD, HARVARD, MA" PREPARED FOR GEBO LANE REALTY TRUST & BERNICE TAVERAS BY GOLDSMITH, PREST & RINGWALL, INC. DATED NOVEMBER 1998. GPR JOB #97-264.
- 5. "SUBSURFACE SEWAGE DISPOSAL SYSTEM-CONSTRUCTION RECORD PLAN" PREPARED FOR HARVARD GREEN DEVELOPMENT CORP. BY GOLDSMITH, PREST & RINGWALL, INC. DATED MARCH 18, 1997. REVISED THROUGH 7/2/98.
- 6. "PLAN OF LAND, HARVARD, MASSACHUSETTS" PREPARED FOR HARVARD GREEN DEVELOPMENT CORP. BY DILLIS & MISCHE, INC., SCALE 1" = 80'. DATED SEPTEMBER 1997. APPROVED ON 9/22/97.
- "SUBSURFACE SEWAGE DISPOSAL SYSTEM" PREPARED FOR HARVARD GREEN DEVELOPMENT CORP. BY GOLDSMTIH, PREST & RINGWALL, INC., PLAN NO. 96-507: SDS01, DATED MARCH 1997, REVISED JUNE 23, 1997.
- "COMMERCIAL DEVELOPMENT NOTICE OF INTENT 203 AYER ROAD, HARVARD, MA" PREPARED FOR YVONNE CHERN AND WHEELER REALTY TRUST BY GOLDSMITH, PREST & RINGWALL, INC. DATED MARCH 2022. GPR JOB #211009.
- "COMMERCIAL DEVELOPMENT-203 AYER ROAD, HARVARD, MA" PREPARED FOR WHEELER REALTY TRUST BY GOLDSMITH, PREST & RINGWALL, INC. DATED JULY 2021. REVISED THROUGH 09/09/21. GPR JOB #211009A.
- 10. "WPA FROM 5-ORDER OF CONDITIONS-203 AYER ROAD, HARVARD MA" PREPARED FOR WHEELER TRUST BY THE HARVARD CONSERVATION COMMISSION. DATED 09/30/21. MASS DEP FILE #177-0707.
- 11. "BACKWASH DISPOSAL SITE PLAN 196 AYER ROAD HARVARD, MA 01451" PREPARED FOR AYER ROAD PROPERTIES, LLC, BOWERS BROOK, LLC AND WHEELER REALTY TRUST BY PROVENCHER ENGINEERING, LLC. DATED AUGUST 19, 2013. REVISED 08/19/13.

Ayer Road Village Special Permit

203 AYER ROAD

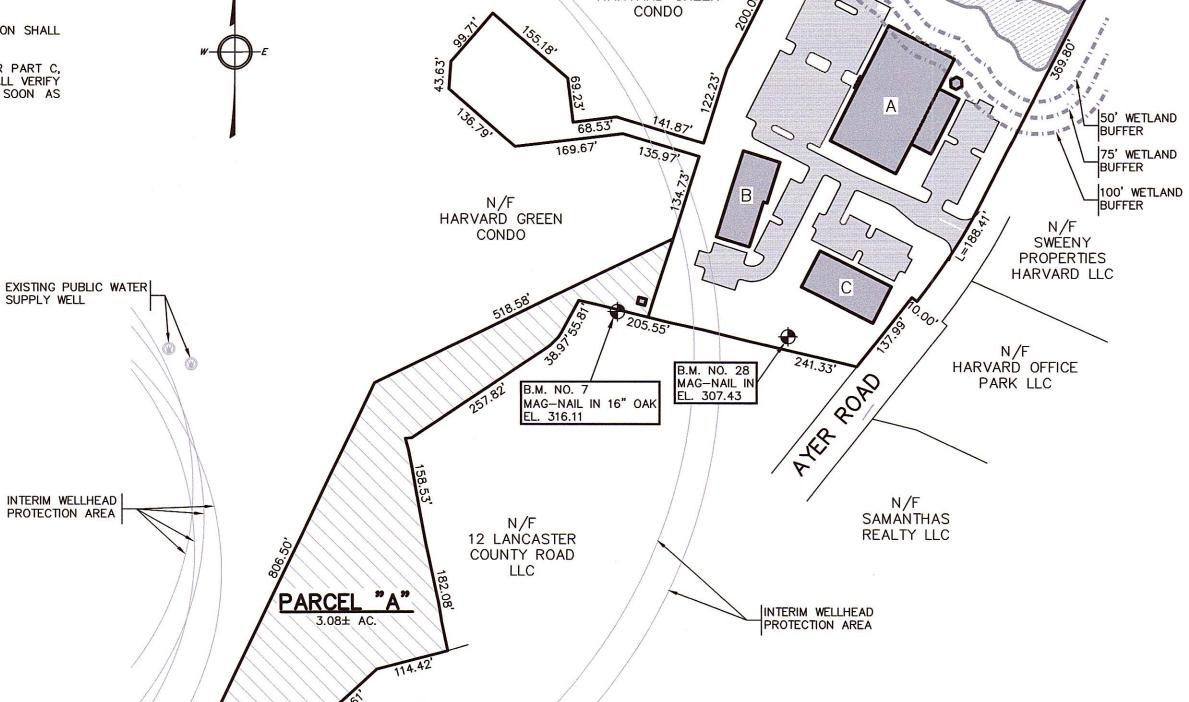
HARVARD, MA



VICINITY MAP

SCALE: 1" = 1,000'

TOWN OF HARVARD EXISTING EDGE OF WETLAND [PER PLAN REF. #10] PROPOSED LIMIT OF WETLAND REPLICATION [SEE PLAN REF. #8] HARVARD GREEN CONDO



PLOT PLAN

SCALE: 1" = 150'

COMMONWEALTH OF

MASSACHUSETTS

ZONING

	Underlying Dist	rict	Ayer Road Vil	lage Special Permit	
Parameter	Zoning Section Requirement		Zoning Section	Requirement	Remarks
Zoning District	125-23	Commercial - C	125-23	Commercial - C	
Overlay District	125-42		125-42		Wireless Communication Overlay Distri
Proposed Use	125-14.D	Large-scale Commercial Use	125-14.D	Large-scale Commercial Use	Planning Board Special Permit Requirer for use
	125-12.B	Small-scale Commercial Use	125-12.B		Allowed
	125-12.G	Small-scale Commercial Use	125-12.G		Allowed
Lot Area	125-29.B (1)	1.5 AC			11.03 AC (480,379 sf) [2]
Frontage	125-29.B.(3)	180 FT	125-52.B	300 FT	904 FT of frontage provided
Lot Width	125-29.B.(2)	200 FT at 120 FT from roadway center line	125-52.G.1(a)	permit alt. bldg. siting without regard to lot width circle	867 ft lot width provided
Yard					
	125-30.E.(4)	20 FT, 60 ft abutting AR district	125-52.G.1(c)	Alternative structure setbacks	Underlying District setbacks met
Side & Rear	125-30.E.(3)	20 FT, 60 ft abutting AR district	125-52.G.1(c)	Alternative structure setbacks	Underlying District setbacks met
Total Floor Area	125-30.B	10% of land area	125-52.G.2(a)	20% of land area	13.2% Total Floor Area provided [3]
Building Height	125.30.C	35 FT, 3 stories Max.			< 35 ft provided
Parking	125-39.A(3)	20-ft wide green area every 160 ft			Alternativy, 10-ft wide green area every 80 ft of length
	125-39.A.(3).(a)	9'x19/ stall with 24' isle			
Open Area					
	125-39.C.(1)	20-ft buffer strip around perimeter			
Total Green Area		50% of lot area			64.3% Green Area Provided [3]
Wetlands Bylaw	local bylaw	No Structure within 75 ft, No disturbance within 50 ft			from edge of wetlands and water bodie
MDEP Riverfront Area	-	within 200 ft of riverbank			none on site
FEMA Floodplain					none on site
IWPA					on site

I11 Reference to section of The Protective Bylaw, where applicable [2]Total Lot Area (Lot 2) = 11.03 AC, Total Development Area (Lot 2-1) = 7.95 AC [3] % shown is based on the development area

SF=square feet; FT=feet; AC=acres; PB=Planning Board; ZBA=Zoning Board of Appeals; IWPA=interim wellhead protection area; OSPD=Open Space Preservation Development

PARKING COMPUTATIONS

USE	REQUIRED SPACES	PROPOSED SPACES (# OF HANDICAP SPACES)		
Building A	N/A	120 (5)		
Building B	N/A	24 (1)		
Building C	N/A	25 (1)		

COVERAGE COMPUTATIONS

[1] Lot Area does not include any area in a "W District"

PARAMETER	AREA (ACRES)	AREA (SQUARE FEET)	FRACTION OF TOTAL LOT AREA (%)
EXISTING CONDITION			
Lot Area	11.03±	480,379±	100%
Development Area	7.95±	346,416±	72.1%
Building Footprint	0	0	0%
Other Impervious Area	0	0	0%
Total Impervious Coverage	0	0	0%
DEVELOPED CONDITION			
Development Area [SEE NOTE 1]	7.95±	346,416±	100%
Building Footprint	0.99±	42,929±	12.3%
Other Impervious Area	1.86±	80,909±	23.4%
Total Impervious Coverage	2.84±	123,838±	35.7%
NOTE:			

SHEET INDEX

- C1.1 TITLE SHEET
- EXISTING CONDITIONS PLAN
- SITE UTILITIES PLAN
- SITE LAYOUT PLAN
- GRADING AND PAVING PLAN
- DRAINAGE PLAN
- EROSION AND SEDIMENT CONTROL PLAN
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- CONSTRUCTION DETAILS
- L-1.01 PLANTING PLAN (BY FISHER DESIGN GROUP)

ASSESSORS REFERENCE

ASSESSORS PARCEL # 008-062-002 OWNER PER ASSESSOR RECORD: WHEELER REALTY TRUST 200 AYER ROAD HARVARD, MA 01451

APPROVED BY THE HARVARD PLANNING BOARD

> CHAIR APPLICATION FILED HEARING DATE

> > PLAN APPROVED

DRAWING ISSUED FOR:

☐ CONCEPT ☐ CONSTRUCTION

☐ CONSTRUCTION THIS DRAWING MAY NOT SHOW CONSTRUCTION

DETAILS AND SPECIFICATIONS FOR ALL PROPOSED IMPROVEMENTS, AND MAY NOT IDENTIFY ALL CONSTRUCTION WORK ITEMS/AREAS OF CONTRACTOR JURISDICTION.

NICHOLAS

PAULING

No. 47114

PER 250 CMR 5.03(13), THE FOLLOWING ARE EXCLUDED FROM THE PROFESSIONAL ENGINEER'S RESPONSIBILITY: ALL BOUNDARY INFORMATION: LOCATION OF EXISTING STRUCTURES, TREES, UTILITIES, TOPOGRAPHY OR SIMILAR FEATURES; DESIGN OF RETAINING WALLS, PROPRIETARY EQUIPMENT. SEE EXISTING CONDITION NOTES.

DATE REVISION DESCRIPTION

Engineering Solutions for Land & Structures

GOLDSMITH, PREST & RINGWALL, INC. 39 MAIN STREET, SUITE 301. AYER, MA 01432 CIVIL ENGINEERING • LAND SURVEYING • LAND PLANNING

VOICE: 978.772.1590 FAX: 978.772.1591

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COMMERCIAL DEVELOPMENT SPECIAL PERMIT

TITLE SHEET

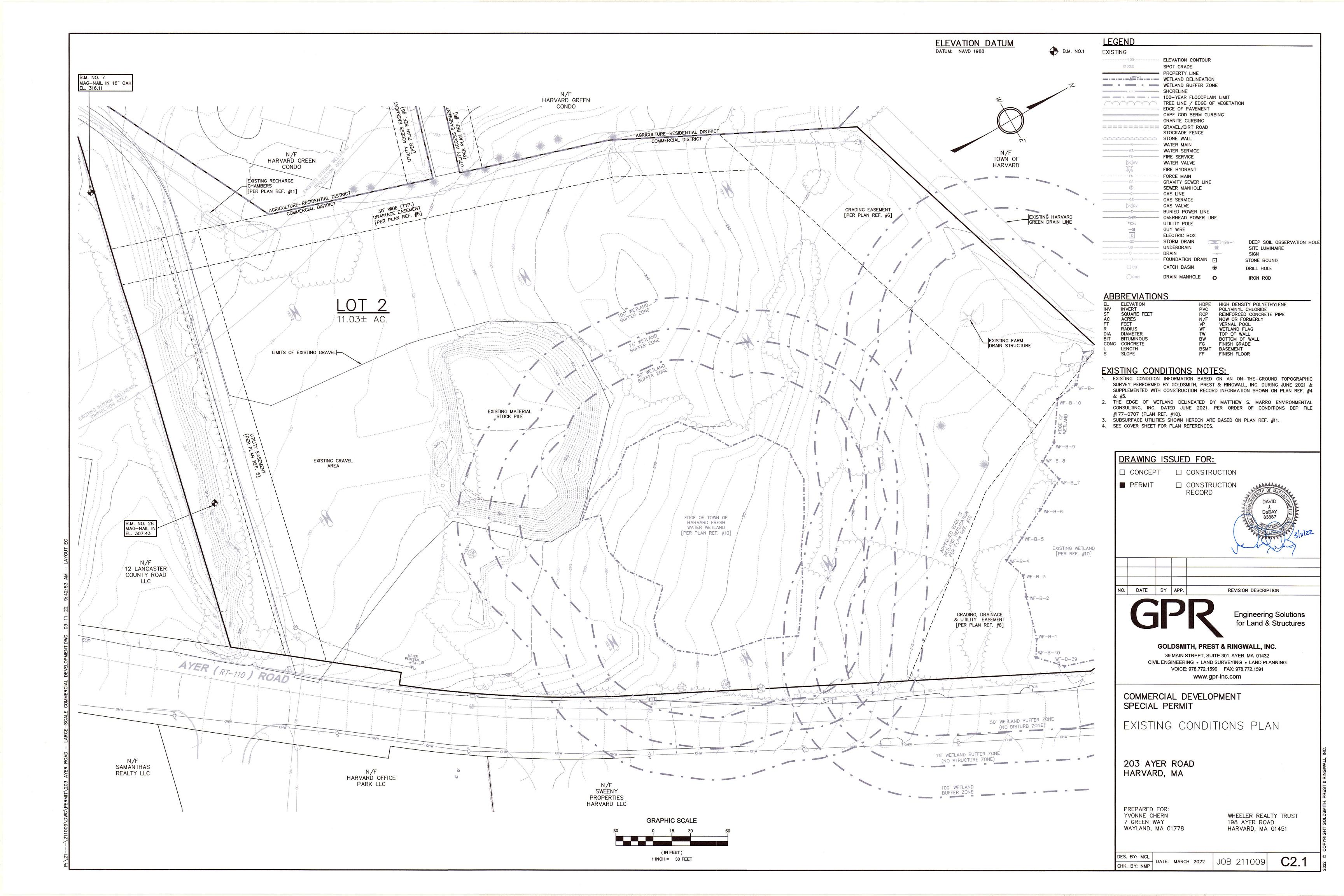
203 AYER ROAD HARVARD, MA

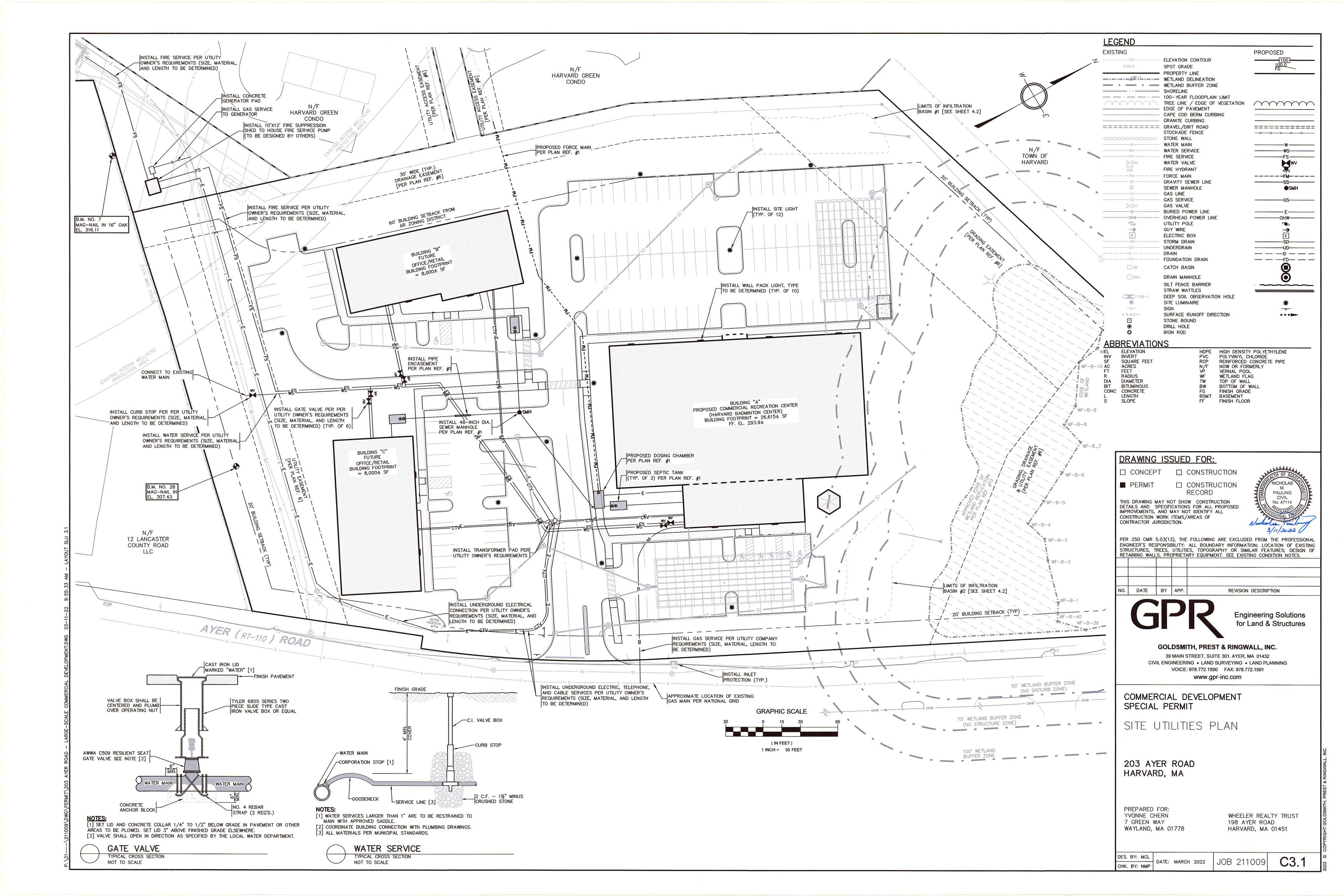
PREPARED FOR: YVONNE CHERN 7 GREEN WAY WAYLAND, MA 01778

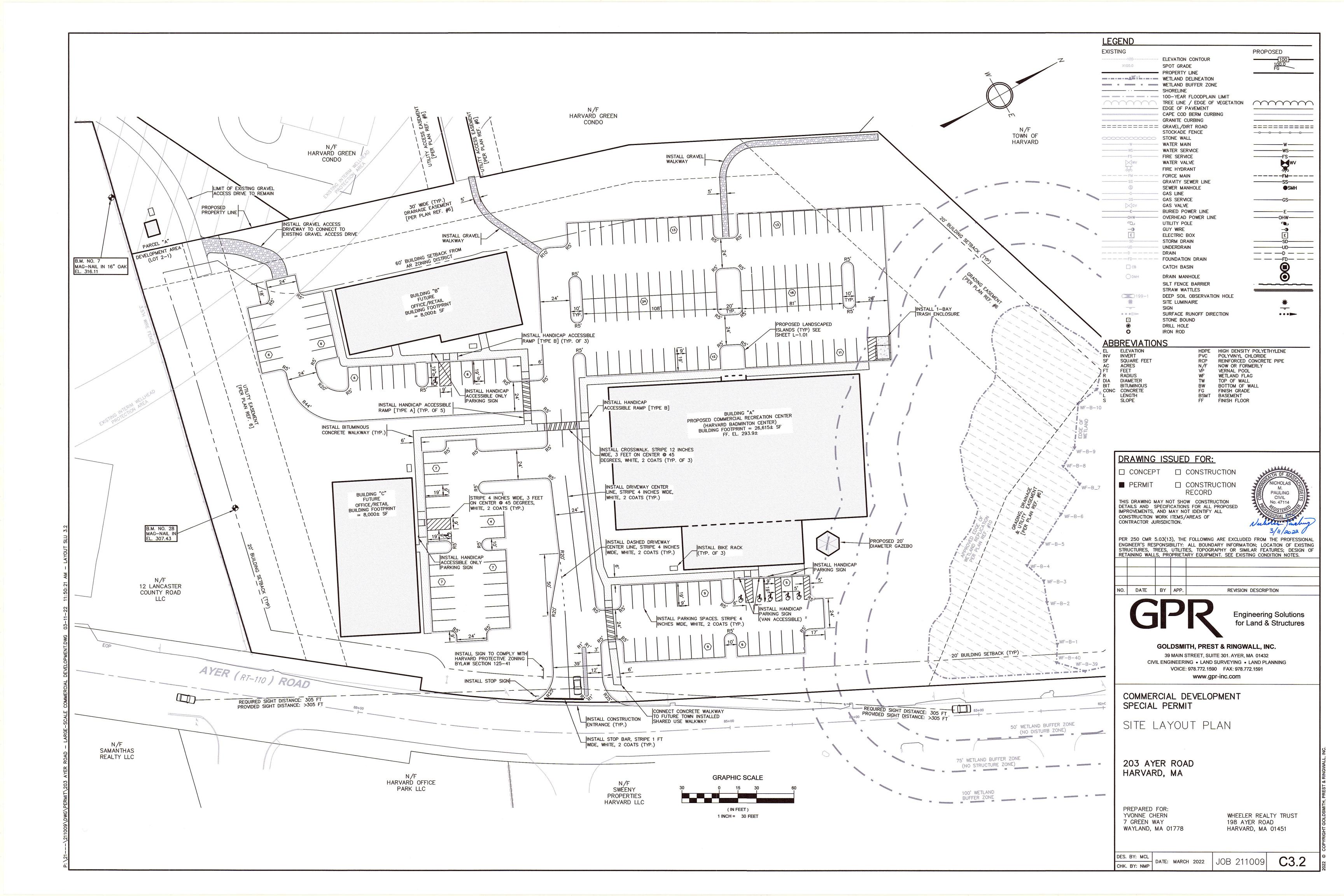
WHEELER REALTY TRUST 198 AYER ROAD HARVARD, MA 01451

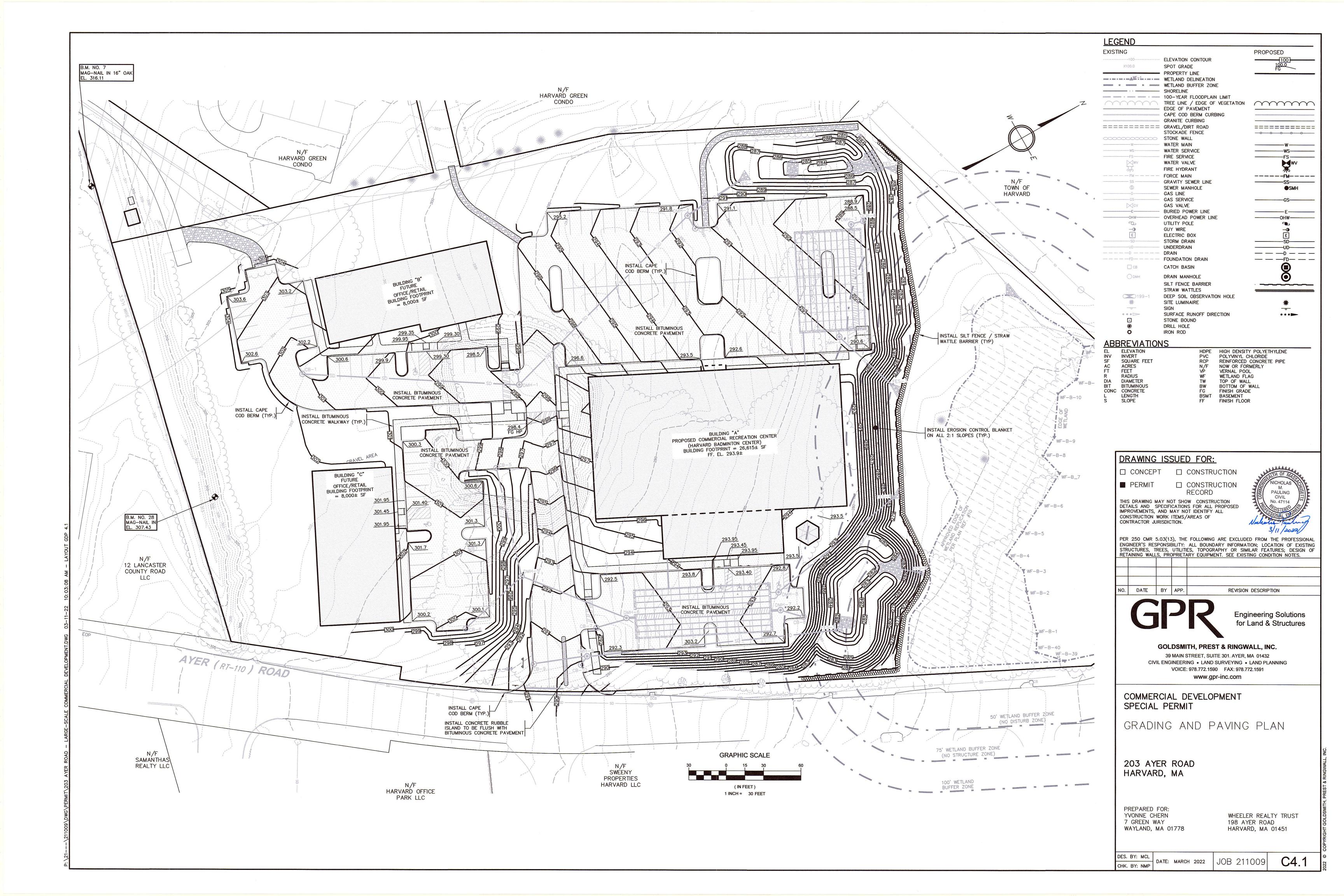
DATE: MARCH 2022 CHK. BY: NMP

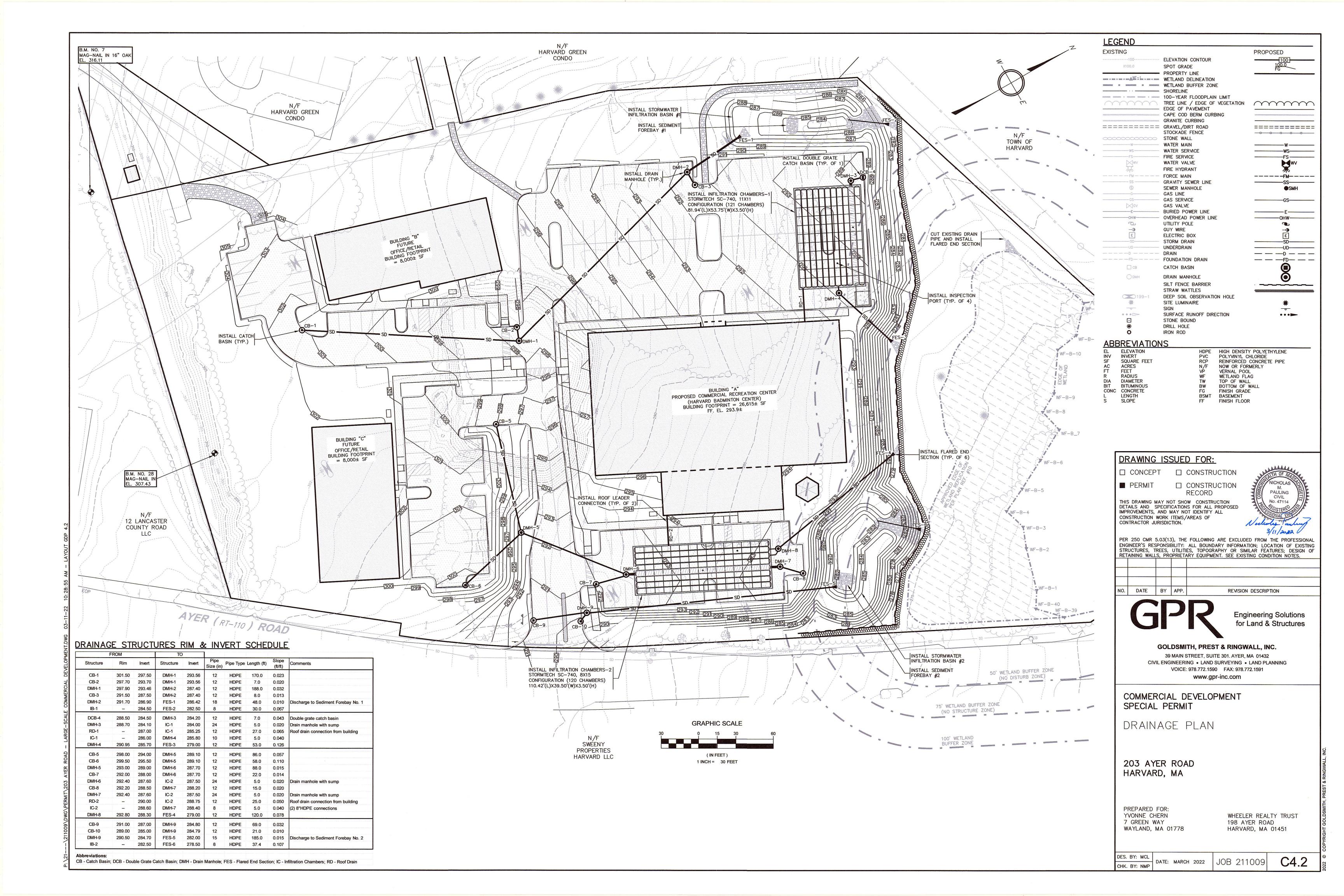
JOB 211009











EROSION AND SEDIMENT CONTROL REQUIREMENTS

PART 1 - GENERAL

- 1.01 SUMMARY A. FURNISH, INSTALL, AND MAINTAIN TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS, BUT NOT NECESSARILY LIMITED TO, straw BALE AND SILT FENCE BARRIERS, RIPRAP, DIVERSION CHANNELS AND BERMS, CHECK DAMS, STRATEGICALLY LOCATED STOCKPILES, SEDIMENT BASINS, MULCH, AND SEED MIX (HEREINAFTER "CONTROL MEASURES") ADEQUATE TO PREVENT THE CONVEYANCE OF EROSION PRODUCTS (E.G. SOIL, MULCH, SOD) OFF SITE, OR INTO ENVIRONMENTALLY SENSITIVE AREAS, OR INTO AREAS WHERE WORK WILL BE ADVERSELY IMPACTED. ENVIRONMENTALLY SENSITIVE AREAS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, WETLANDS, TRIBUTARIES TO WETLANDS, WETLAND BUFFER ZONES, INTERMITTENT AND PERENNIAL STREAMS / RIVERS, AND THEIR ATTENDANT BUFFER ZONES.
- 1. REFER TO DRAWINGS FOR LOCATION AND DETAILS OF CONTROL MEASURES REQUIRED TO COMMENCE WORK. THESE CONTROL MEASURES WILL BE ADEQUATE ONLY FOR VEGETATION CLEARING. THE DRAWINGS ARE NOT INTENDED TO GRAPHICALLY DEPICT ALL CONTROL MEASURES THAT WILL BE REQUIRED TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
- 2. DEVISE AND EMPLOY CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT, OVER ALL AREAS DISTURBED OR UNDISTURBED BY CONSTRUCTION, AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A.
- 3. DEVISE AND EMPLOY TEMPORARY CONTROL MEASURES AS NECESSARY TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A, WHILE ALLOWING WORK TO PROCEED IN AN EFFICIENT, COST EFFECTIVE MANNER. 4. DEVISE, EMPLOY AND MAINTAIN CONTROL MEASURES UNTIL SUCH TIME AS THE
- ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION, FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA. 5. ONCE THE SITE IS PERMANENTLY STABILIZED AND CERTIFIED AS SUCH BY
- ENGINEER, REMOVE TEMPORARY CONTROL MEASURES WHILE PROTECTING STABILIZED SURFACES. 1.02 SUBMITTALS

A. SUBMIT PRODUCT DATA, WARRANTY, AND TEST REPORTS AS INDICATED ON THE DRAWINGS.

1.03 QUALITY ASSURANCE A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS FROM ACCEPTABLE MANUFACTURERS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE,

AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. CONFORM TO CONDITIONS OF APPROVAL ISSUED BY REGULATORY AGENCIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, LOCAL PLANNING BOARD, CONSERVATION COMMISSION, BOARD OF SELECTMEN, BOARD OF HEALTH, PUBLIC WORKS / HIGHWAY DEPARTMENT, STATE ENVIRONMENTAL PROTECTION DEPARTMENT, AND U.S. GOVERNMENT, ENVIRONMENTAL PROTECTION AGENCY. WHERE CONDITIONS OF REGULATORY APPROVAL DIFFER FROM REQUIREMENTS CONTAINED HEREIN OR ON THE DRAWINGS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.

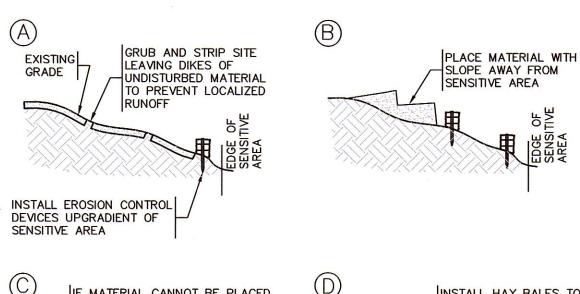
PART 2 - PRODUCTS 2.01 MATERIALS

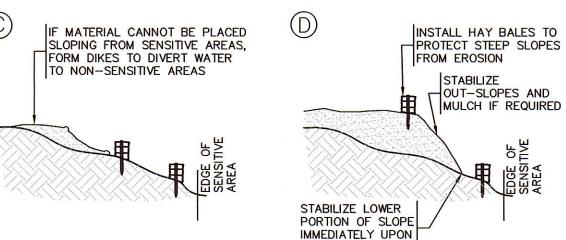
- A. STRAW WATTLES: DRY GRASS OR STRAW, MACHINE BOUND WITH JUTE OR WIRE, APPROXIMATE SIZE EACH BALE 9" DIAMETER.
- B. SILT FENCE: NON-WOVEN, UV-RESISTANT, POLYPROPYLENE FABRIC, FLOW RATED AT 10 GPM/SF MINIMUM, GRAB TENSILE RATED AT 124 POUNDS MINIMUM, WITH INTEGRAL STAKE LOOPS, AND HARDWOOD STAKES. USE NO. 2130 BY AMOCO FABRICS & FIBERS, OR APPROVED EQUAL.
- C. MULCH: ORGANICS INCLUDING STRAW, PROCESSED PINE / HEMLOCK TWIGS AND NEEDLES.
- D. SEED MIXES: PERENNIAL RYEGRASS, KENTUCKY BLUEGRASS, AND / OR FINE FESCUE, DISEASE RESISTANT. NON-MAINTAINED AREA OPTION - ANNUAL RYEGRASS COMBINED WITH MEDIUM RED CLOVER.
- E. EXCELSIOR BLANKET: CURLED WOOD FIBER ON PHOTODEGRADABLE EXTRUDED POUNDS / SY, CONTAINING NO CHEMICAL ADDITIVES. USE CURLEX I BLANKET BY AMERICAN EXCELSIOR COMPANY, OR APPROVED EQUAL.
- F. ROCK RIPRAP: SOUND, ANGULAR, 6-INCH MINUS PROCESSED ROCK, BLAST ROCK, OR TAILINGS.
- G. CRUSHED STONE: SOUND, ANGULAR, 2-INCH MINUS PROCESSED CRUSHED STONE

PART 3 - EXECUTION

- 3.01 THROUGHOUT CONSTRUCTION A. DEVISE WORK SEQUENCE SO AS TO LIMIT DRAINAGE AREA THAT IS TRIBUTARY TO DISTURBED AREAS. DEVISE, EMPLOY, AND MAINTAIN CONTROL MEASURES SUCH AS DIVERSION CHANNELS AND BERMS, STRATEGICALLY LOCATED STOCKPILES, AND SEDIMENT BASINS TO SUBDIVIDE DRAINAGE AREAS INTO SMALL, MANAGEABLE SUBAREAS, THEREBY MINIMIZING RUNOFF AND THE POTENTIAL FOR EROSION.
- MAINTAIN BARRIER AT LIMIT OF WORK AND PROTECT EXISTING VEGETATION / FACILITIES OUTSIDE OF LIMIT OF WORK.
- MAINTAIN SPARE MATERIAL STOCKPILES FOR IMMEDIATE EMPLOYMENT / REPAIR / EXPANSION OF CONTROL MEASURES. AT A MINIMUM, SUCH MATERIALS SHALL INCLUDE straw BALES, SILT FENCE AND STAKES, AND CRUSHED STONE.
- INSPECT AND MAINTAIN EFFECTIVENESS OF CONTROL MEASURES BY REPAIRING AS NECESSARY TO ENSURE INTENDED FUNCTION; BY SUPPLEMENTING AS NECESSARY FOR ADEQUATE EXTENT; BY REMOVING TRAPPED PRODUCTS OF EROSION AS NECESSARY TO MAINTAIN EFFECTIVE TRAP VOLUME.
- E. LIMIT EXTENT OF WORK AREA SO THAT ALL DISTURBED AREAS CAN BE STABILIZED WITH CONTROL MEASURES WITHIN A 24-HOUR PERIOD.
- INSTALL CONTROL MEASURES AS SOON AS PRACTICABLE AFTER EACH MANAGEABLE PORTION OF EARTHWORK IS COMPLETE. EMPLOY TEMPORARY MEASURES AS NECESSARY TO STABILIZE DISTURBED AREAS, EVEN WHERE SUBSEQUENT CONSTRUCTION OPERATIONS MAY REQUIRE RE-DISTURBANCE.
- WHEN INTENSE RAINFALL IS EXPECTED, CONSIDER, DEVISE, AND EMPLOY REINFORCING CONTROL MEASURES PRIOR TO THE RAINFALL EVENT TO MEET THE REQUIREMENTS DESCRIBED IN 1.01.A. IF NECESSARY, EMPLOY TEMPORARY CONTROL MEASURES ON MATERIAL STOCKPILES TO COUNTERACT POTENTIAL SEDIMENT TRANSPORT DURING INTENSE RAINFALL.
- WHEN VEHICLE REFUELING IS REQUIRED ON SITE, CONDUCT REFUELING OPERATIONS OUTSIDE OF ENVIRONMENTALLY SENSITIVE AREAS.
- I. PROPERLY DISPOSE OF DEBRIS, SOLID WASTE, TRASH, AND CONSTRUCTION WASTE / BYPRODUCTS OFF SITE.
- SWEEP ON-SITE PAVED AREAS AND OFF-SITE STREETS AS NECESSARY TO PREVENT SILT AND DEBRIS ORIGINATING ON SITE FROM ENTERING CLOSED DRAINAGE SYSTEMS AND / OR ENVIRONMENTALLY SENSITIVE AREAS.

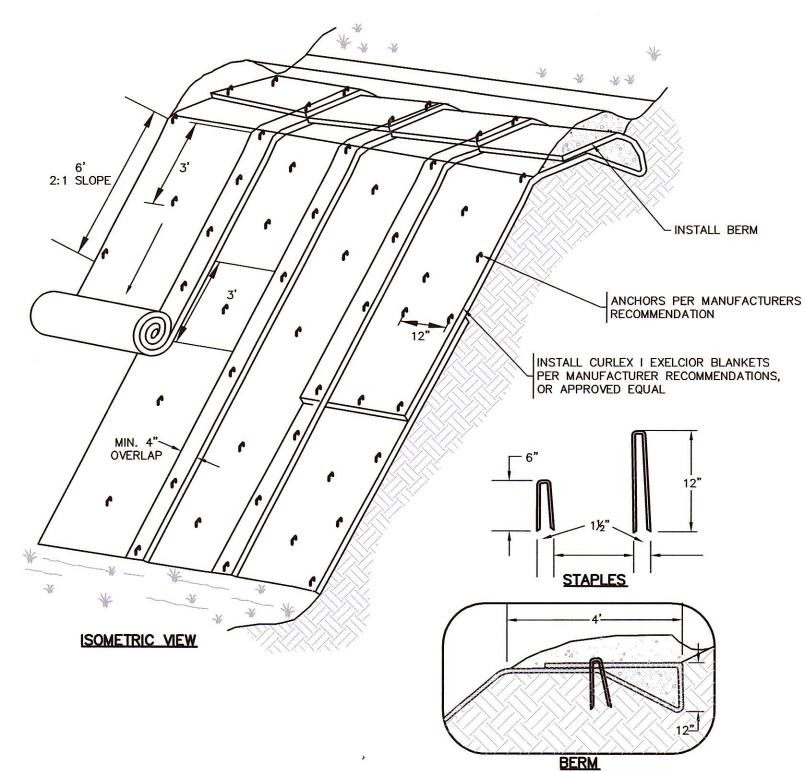
- 3.02 SITE PREPARATION AND ACCESS
- A. WALK SITE AND IDENTIFY LOCATIONS OF LIMIT OF WORK AND ENVIRONMENTALLY SENSITIVE AREAS. ESTABLISH CONSTRUCTION STAGING AREA, LOCATED BEYOND ENVIRONMENTALLY SENSITIVE AREAS.
- B. NSTALL CONTROL MEASURES AS SHOWN ON THE DRAWINGS, INCLUDING THOSE DEFINING THE LIMIT OF WORK.
- C. LIMIT VEHICULAR TRAFFIC TO AND FROM SITE TO MINIMIZE TRANSPORT OF
- 3.03 CLEARING, GRUBBING, AND STRIPPING A. SCHEDULE GRUBBING AND STRIPPING TO OCCUR IMMEDIATELY PRIOR TO EARTH DISTURBANCE. DEPENDING ON SITE AREA, CONSIDER MULTIPLE GRUBBING PHASES, SEQUENCED TO TAKE ADVANTAGE OF THE EROSION PREVENTION POTENTIAL OF EXISTING VEGETATIVE COVER.
- B. MINIMIZE THE AREA OF EXISTING VEGETATION REMOVED WHEREVER POSSIBLE.
- C. LOCATE AND SIZE STOCKPILES TO MINIMIZE EROSION POTENTIAL, TAKING ADVANTAGE OF TERRAIN SLOPE AND ASPECT, WHERE APPROPRIATE.
- D. PROTECT VEGETATION, INCLUDING ROOT SYSTEMS, BEYOND LIMIT OF CLEARING.
- E. PROCESS TIMBER, STUMPS, SLASH, AND BRUSH SO AS TO PROTECT ENVIRONMENTALLY SENSITIVE AREAS AND INSTALLED CONTROL MEASURES. PROPERLY DISPOSE OF EXCESS OFF SITE. BURIAL OF STUMPS ON SITE IS
- 3.04 EXCAVATION FOR BUILDING FOUNDATIONS AND UTILTIES A. DEVISE AND INSTALL CONTROL MEASURES ADEQUATE TO HANDLE DISCHARGES AND
- TRAP SEDIMENT FROM FOOTING SUMP AND WELL POINT PUMPS PRIOR TO B. ARMOR SUMP PUMP DISCHARGE LOCATIONS TO PREVENT EROSION AT POINT OF
- DISCHARGE AND AREAS DOWNSTREAM. C. IF FOUNDATION EXCAVATIONS GRADE TO DAYLIGHT ON THE LOW SIDE, DEVISE AND INSTALL CONTROL MEASURES TO HANDLE SURFACE AND GROUNDWATER FLOW FROM
- D. STOCKPILE EXCAVATED MATERIALS TO BAFFLE OVERLAND RUNOFF, AVOIDING THE CREATION OF LENGTHY PATHS OF CONCENTRATED RUNOFF.
- E. BACKFILL UTILITY TRENCHES AS SOON AS PRACTICABLE TO PREVENT FLOODING, SLOUGHING, POTENTIAL OVERFLOW, AND REPETITIVE EARTH DISTURBANCE.
- A. WHERE APPLICABLE, FOLLOW EXCAVATION AND FILL PRACTICES SHOWN ON DRAWINGS TO LOCALIZE AND MINIMIZE EROSION.
- B. MONITOR SEDIMENT VOLUME IN TEMPORARY SEDIMENT BASINS AND AT DIVERSION BERMS AND CHECK DAMS. IN ALL AREAS EXCEPT THOSE THAT DO NOT PRESENT POTENTIAL PROBLEMS WITH REGARD TO FUTURE SOIL STABILITY, DRAINAGE, OR BEARING CAPACITY, REMOVE AND PROPERLY DISPOSE OF TRAPPED SEDIMENT BEFORE BRINGING SITE TO FINAL SUBGRADE.
- 3.06 STORMWATER MANAGEMENT SYSTEM
- A. THE STORMWATER MANAGEMENT SYSTEM INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, ALL PERMANENT DETENTION / RETENTION BASINS, DISCHARGE STRUCTURES / WEIRS, CULVERTS, OPEN CHANNELS, CURBS, GUTTERS, PAVED SWALES. CATCH BASINS, DRAIN MANHOLES, DRAINAGE PIPES, ROOF DRAIN MANIFOLDS, WATER QUALITY SWALES, SEPARATORS, AND SIMILAR STORMWATER RUNOFF CONVEYANCE, TREATMENT, AND STORAGE FACILITIES.
- B. INSTALL STORMWATER MANAGEMENT SYSTEM COMPONENTS STARTING AT THE DOWNSTREAM END AND PROCEED UPSTREAM. WHERE POSSIBLE, COMPLETE INSTALLATION OF PERMANENT DETENTION / RETENTION BASINS PRIOR TO BEGINNING WORK ON UPSTREAM SYSTEM COMPONENTS.
- C. INSTALL CONTROL MEASURES AT FINISHED UPSTREAM AND DOWNSTREAM PIPE ENDS AS SOON AS POSSIBLE AFTER COMPLETION OF PIPE RUN. SUCH MEASURES INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, RIPRAP, CHECK DAMS, HAY BALE / SILT FENCE BARRIERS, AND VELOCITY DISSIPATORS.
- D. AT THE END OF EACH DAY OR WHEN RAINFALL IS EXPECTED, PLUG UPSTREAM END OF PIPES / DAM OPEN CHANNELS OR OTHERWISE REDIRECT POTENTIAL RUNOFF AND PREVENT FLOW FROM ENTERING PARTIALLY COMPLETED SYSTEM / SYSTEM
- E. WHERE PORTIONS OF A NEW SYSTEM ARE TO BE ACTIVATED PRIOR TO COMPLETION OF THE ENTIRE SYSTEM, EMPLOY CONTROL MEASURES TO PREVENT SILT AND DEBRIS FROM ENTERING THE SYSTEM. EMPLOY SILT SACKS OR FABRIC ON CATCH BASIN INLETS, AND PIPE AND CULVERT OPENINGS. EMPLOY CHECK DAMS AND TEMPORARY SEDIMENT BASINS UPSTREAM OF AND ALONG OPEN CHANNELS, SWALES, AND DITCHES TO TRAP SEDIMENT UPGRADIENT OF ENVIRONMENTALLY
- F. REMOVE TRAPPED SEDIMENT AND DEBRIS FROM ALL SYSTEM COMPONENTS AFTER COMPLETION OF INSTALLATION, AND AGAIN AFTER THE ENTIRE SITE IS PERMANENTLY STABILIZED BY ESTABLISHED VEGETATION. FINISH LANDSCAPE MATERIALS, PAVED SURFACES, AND/OR ROOF AREA. REMOVE TRAPPED SEDIMENT AND DEBRIS FROM DETENTION / RETENTION BASIN BOTTOMS SO THAT FINISH BOTTOM MATERIALS / INFILTRATION FUNCTION CONFORM TO DESIGN.
- 3.07 LANDSCAPING A. COMPLETE LANDSCAPING AS SOON AS POSSIBLE AFTER COMPLETION OF FINAL SUBGRADE
- B. IMMEDIATELY AFTER PLACEMENT OF TOPSOIL, STABILIZE WITH CONTROL MEASURES INCLUDING, BUT NOT NECESSARILY LIMITED TO, SEED MIX, MULCH, AND / OR





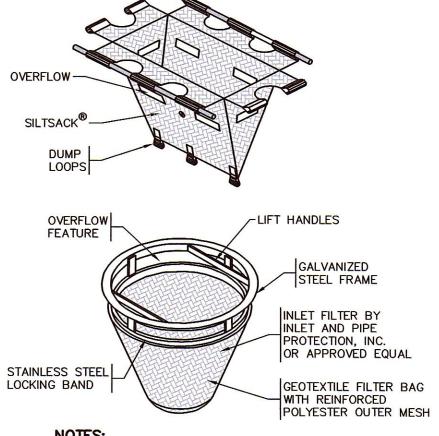
PLACEMENT





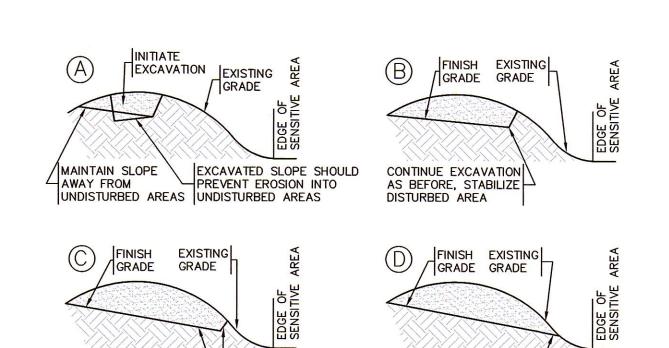
- [1] SLOPE SURFACE SHALL BE FREE OF ROCK, CLODS, STICKS AND GRASS, MATS/BLANKETS
- SHALL HAVE GOOD SOIL CONTACT [2] APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS
- [3] LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH
- [4] MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE 5] TAMP SOIL OVER MAT/BLANKET





[1] CLEAN INLET PROTECTION WHEN 30% FULL [2] BURLAP IS NOT AN ACCEPTABLE GEOTEXTILE

INLET PROTECTION TYPICAL CROSS SECTION NOT TO SCALE



REMOVE BERM AND

STABILIZE AREA

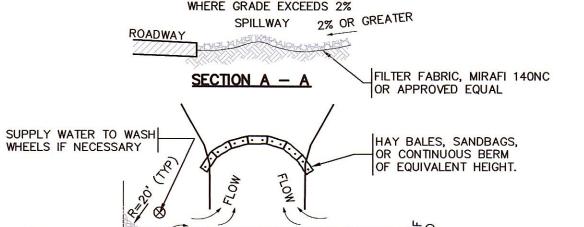
EXCAVATION PROCEDURE TYPICAL CROSS SECTION

CONTINUE EXCAVATION.

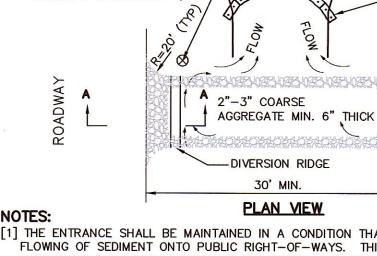
IN DISTURBED AREA

ESTABLISH GRASS COVER LLEAVE 2'

NOT TO SCALE



DIVERSION RIDGE REQUIRED



NOT TO SCALE

[1] THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING. REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

[2] WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC [3] WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

[4] USE SANDBAGS, HAY BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED. CONSTRUCTION ENTRANCE

SILT FENCE FILTER FABRIC 12" DIA. STRAW WATTLES. COMPACT EXCAVATED NORTH AMERICAN GREEN MATERIAL ON UPSLOPE SIDE MODEL WS1210 OR APPROVED EQUAL SET WATTLE IN 2-3" DEEP TRENCH 24" WOOD STAKE, 6" WIDE x 6" DEEP TRENCH 3-4 FT O.C. WITH COMPACTED BACKFILL

> [1] INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. [2] TRAPPED SEDIMENT SHALL BE REMOVED TO A NON-SENSITIVE UPLAND AREA.

SILT FENCE / STRAW WATTLE BARRIER TYPICAL CROSS SECTION NOT TO SCALE

DRAWING ISSUED FOR:

SU-30 TURNING TEMPLATE

SLOPE

☐ CONCEPT ☐ CONSTRUCTION

PERMIT ☐ CONSTRUCTION

THIS DRAWING MAY NOT SHOW CONSTRUCTION DETAILS AND SPECIFICATIONS FOR ALL PROPOSED

IMPROVEMENTS, AND MAY NOT IDENTIFY ALL CONSTRUCTION WORK ITEMS/AREAS OF CONTRACTOR JURISDICTION.

-1---

PER 250 CMR 5.03(13), THE FOLLOWING ARE EXCLUDED FROM THE PROFESSIONAL ENGINEER'S RESPONSIBILITY: ALL BOUNDARY INFORMATION; LOCATION OF EXISTING STRUCTURES, TREES, UTILITIES, TOPOGRAPHY OR SIMILAR FEATURES: DESIGN OF RETAINING WALLS, PROPRIETARY EQUIPMENT. SEE EXISTING CONDITION NOTES.

DATE BY APP. REVISION DESCRIPTION

for Land & Structures

Engineering Solutions

NICHOLAS

PAULING

No. 47114

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EROSION & SEDIMENT CONTROL PLAN

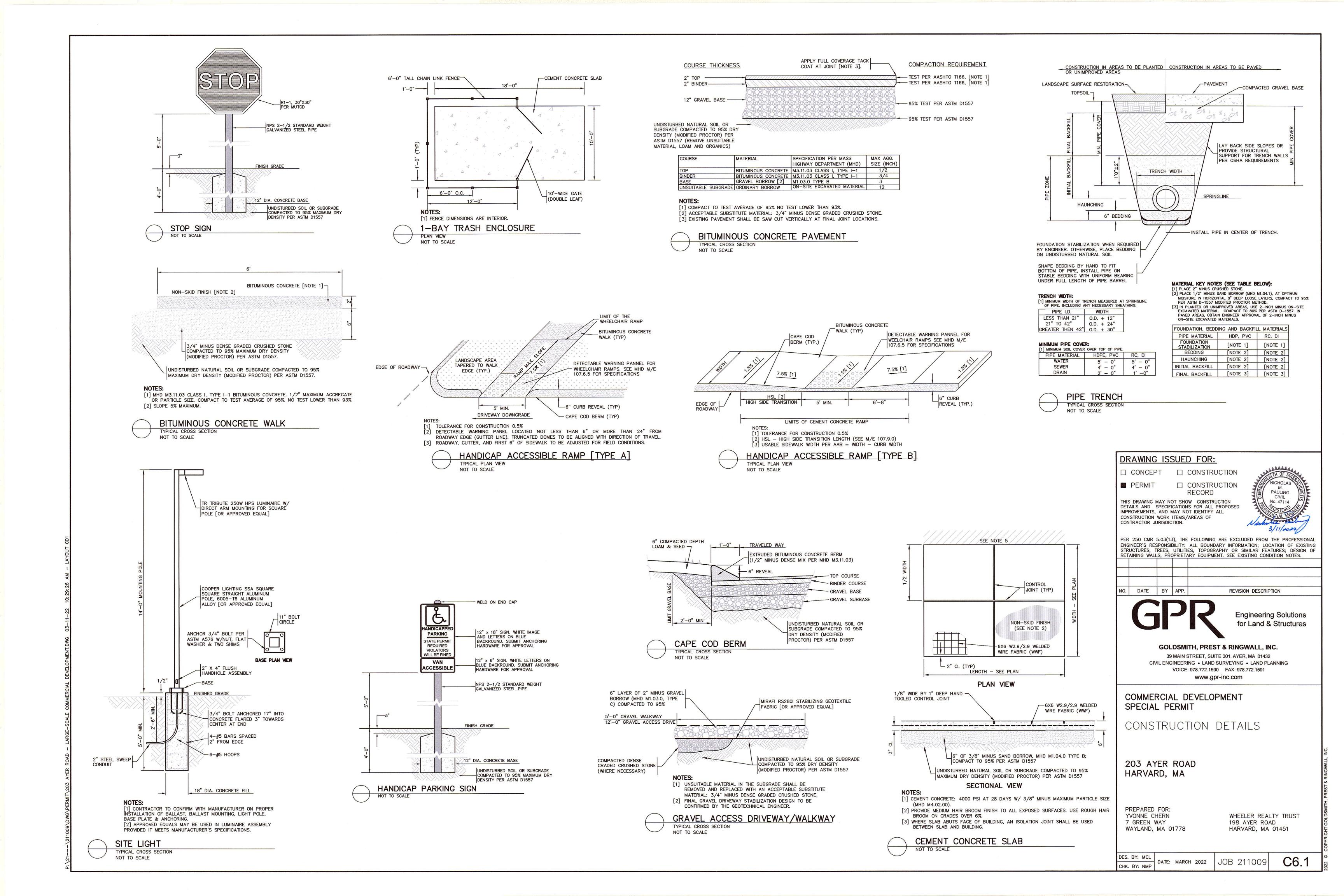
203 AYER ROAD HARVARD, MA

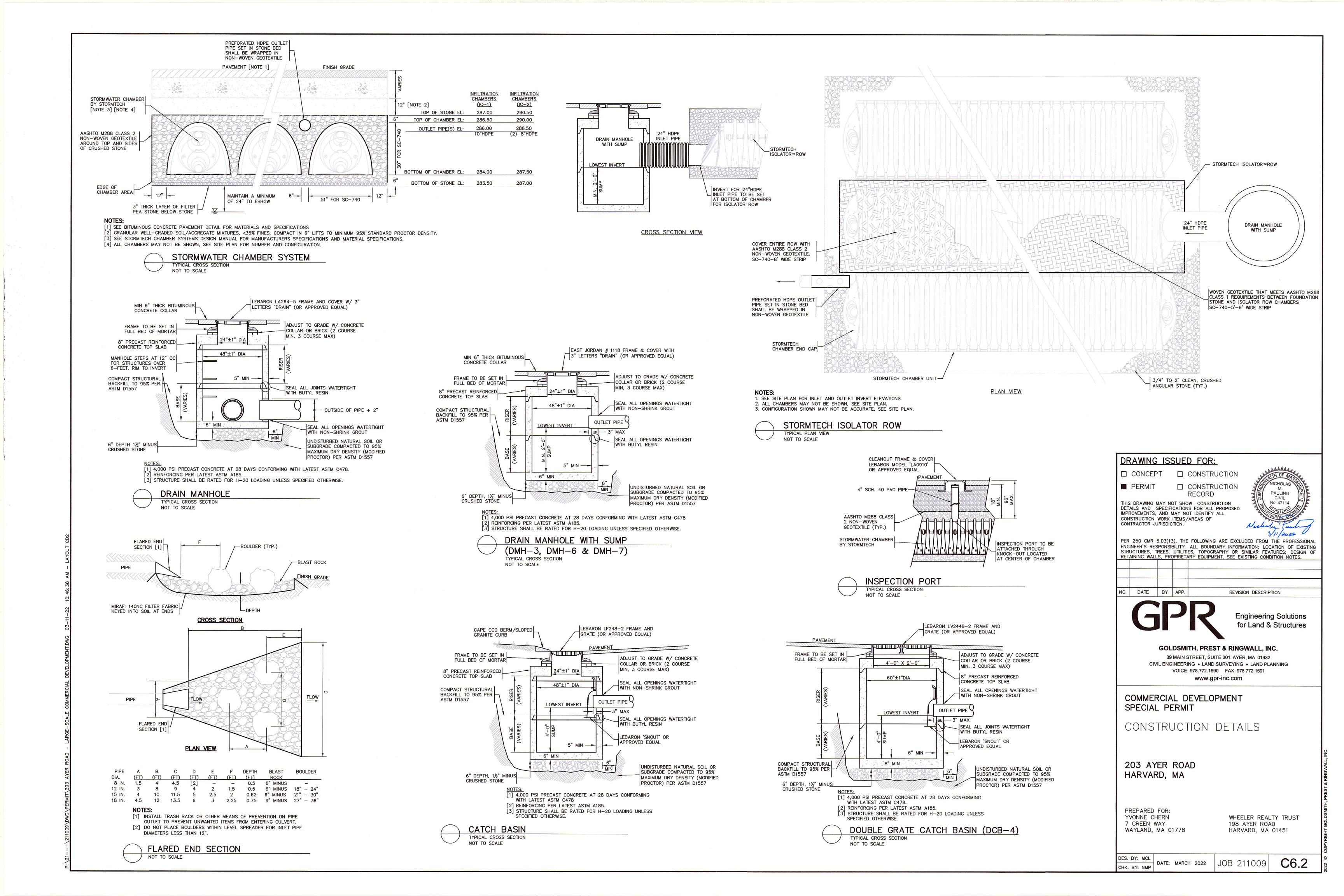
PREPARED FOR: YVONNE CHERN 7 GREEN WAY WAYLAND, MA 01778

WHEELER REALTY TRUST 198 AYER ROAD HARVARD, MA 01451

DATE: MARCH 2022

JOB 211009





SOIL EVALUATOR APPROVED ON: NOVEMBER 02, 2021 WITNESSED BY: UNWITNESSED EVALUATION PERFORMED: 01/13/2022

	Deep Observation Hole Log						
Hole # 122	-1	NB 14/E-31	*		Suface El. 301.9		
Depth from	Soil	Soil Texture	Soil Color	Soil	Other		
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders		
(inches)					Consistency, % Gravel)		
0-12	Α	FSL	10YR 3/3				
12-42	C1	S	10YR 5/4				
42-85	C2	SL	2.5Y 5/3	@42"			
				10YR 6/4			
				2.5Y 6/2			

Depth to Bedrock: 85" Parent Material (geologic) Glacial Till Depth to Groundwater: Standing Water in the Hole Weeping from Pit Face: None None Estimated Seasonal High Groundwater in the Hole

Deep Observation Hole Log							
Hole # 122	-2	NB 14/E-31			Suface El. 304.0		
Depth from	Soil	Soil Texture	Soil Color	Soil	Other		
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders		
(inches)					Consistency, % Gravel)		
0-12	Α	FSL	10YR 3/3				
12-50	C1	S	10YR 5/4				
50-91	C2	SL	2.5Y 5/4	@50"			
				10YR 6/4			
				2.5Y 6/2			

Parent Material (geologic) Glacial Till Depth to Bedrock: >91" Weeping from Pit Face: 78" Depth to Groundwater: Standing Water in the Hole Estimated Seasonal High Groundwater in the Hole

Deep Observation Hole Log							
-3	NB 14/E-31			Suface El. 295.4			
Soil	Soil Texture	Soil Color	Soil	Other			
Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders			
				Consistency, % Gravel)			
A	FSL	10YR 3/3					
C1	S	10YR 6/4	@24"				
C2	FSL	2.5Y 5/4	7.5YR 5/6				
			2.5Y 6/2				
	Soil Horizon A C1	Soil Soil Texture (USDA) A FSL C1 S	Soil Soil Texture Soil Color (USDA) (MUNSELL)	Soil Soil Texture Soil Color Municipal Mottling			

Parent Material (geologic) Glacial Till Depth to Bedrock: >102" Weeping from Pit Face: 30" Depth to Groundwater: Standing Water in the Hole Estimated Seasonal High Groundwater in the Hole

Deep Observation Hole Log						
Hole # 122-	-4	NB 14/E-31			Suface El. 289.4	
Depth from	Soil	Soil Texture	Soil Color	Soil	Other	
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders	
(inches)					Consistency, % Gravel)	
0-12	Α	FSL	10YR 3/3			
12-26	Fill	LS	10YR 6/4			
26-40	Ab	FSL	10YR 4/3			
40-50	C1	FS	2.5Y 6/1	@45"		
50-102	C2	FSL	2.5Y 5/4	7.5YR 5/6		
				2.5Y 6/2		

Parent Material (geologic) Glacial Till		Depth to Bedrock: >102"	
Depth to Groundwater: Standing Water in the Hole	90"	Weeping from Pit Face:	48"
Estimated Seasonal High Groundwater in the Hole	45"		

Deep Observation Hole Log						
Hole # 122	-5	NB 14/E-31			Suface El. 288.3	
Depth from	Soil	Soil Texture	Soil Color	Soil	Other	
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders	
(inches)					Consistency, % Gravel)	
0-40	Fill	FSL	10YR 3/3			
40-48	C1	S	10YR 5/4			
48-108	C2	FSL	2.5Y 5/4	@50"		
				7.5YR 5/6		
				2.5Y 6/2		

Depth to Bedrock: >108" Parent Material (geologic) Glacial Till Weeping from Pit Face: 52" Depth to Groundwater: Standing Water in the Hole Estimated Seasonal High Groundwater in the Hole

Deep Observation Hole Log							
Hole # 122	-6	NB 14/E-31			Suface El. 281.2		
Depth from	Soil	Soil Texture	Soil Color	Soil	Other		
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders		
(inches)					Consistency, % Gravel)		
0-15	A	FSL	10YR 3/3	@15"			
15-80	C1	FSL	GLEY 3/N	7.5YR 5/8			
80-108	C2	FLS	2.5Y 4/3				

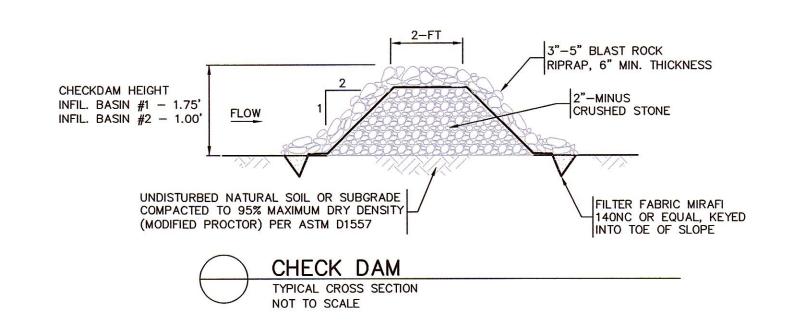
Parent Material (geologic) Glacial Till Depth to Bedrock: >108" Depth to Groundwater: Standing Water in the Hole Weeping from Pit Face: 35" Estimated Seasonal High Groundwater in the Hole

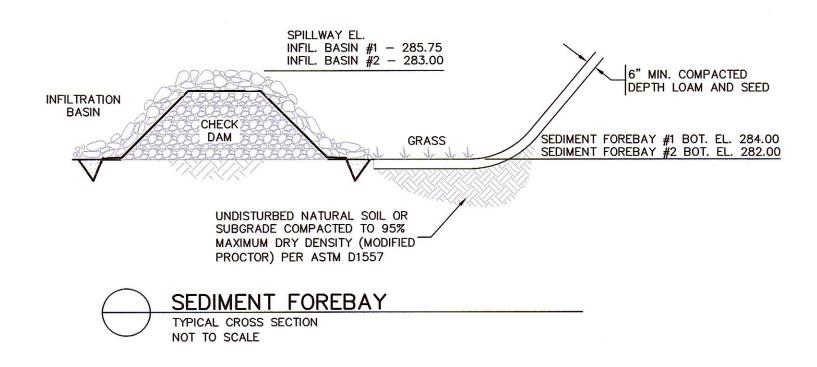
Deep Observation Hole Log							
Hole # 122	-7	NB 14/E-31		17	Suface El. 283.8		
Depth from	Soil	Soil Texture	Soil Color	Soil	Other		
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders,		
(inches)					Consistency, % Gravel)		
0-15	Α	FSL	7.5YR 2.5/2	@15"			
15-28	C 1	S	10YR 4/2	10YR 5/6			
28-99	C2	FSL	GLEY 3/N				

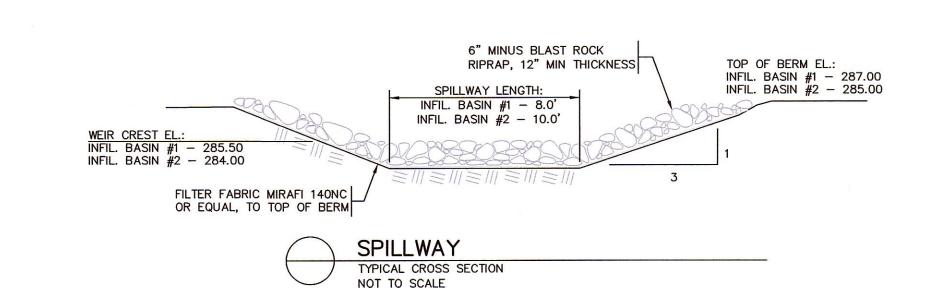
Depth to Bedrock: >99" Parent Material (geologic) Glacial Till Depth to Groundwater: Standing Water in the Hole Weeping from Pit Face: 20" Estimated Seasonal High Groundwater in the Hole

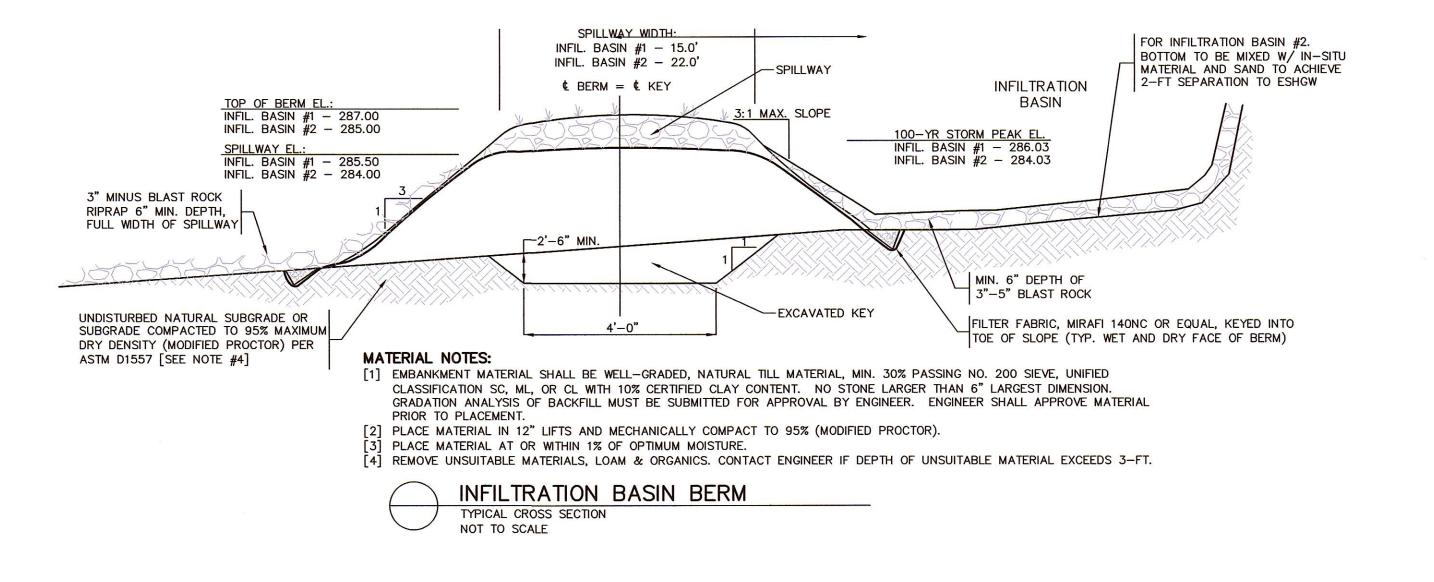
Deep Observation Hole Log								
Hole # 122-	Hole # 122-8 NB 14/E-31			# 122-8 NB 14/E-31			Suface El. 292.5	
Depth from	Soil	Soil Texture	Soil Color	Soil	Other			
Surface	Horizon	(USDA)	(MUNSELL)	Mottling	(Stucture, Stones, Boulders			
(inches)			The second secon		Consistency, % Gravel)			
0-12	Α	FSL	10YR 3/3					
12-28	C 1	LS	10YR 5/4		:			
28-76	C2	SL	2.5Y 5/3	@60"				
				10YR 6/4				
	8			2.5Y 6/2	Ø			

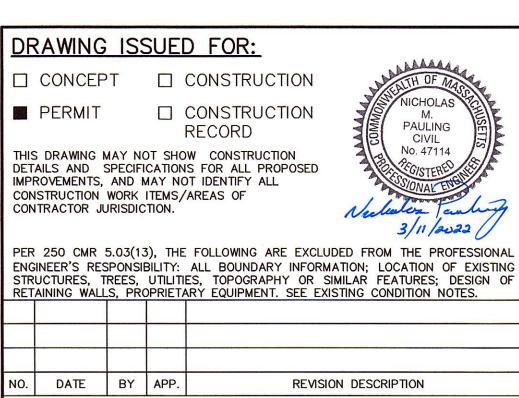
Depth to Bedrock: >76" Parent Material (geologic) Glacial Till Depth to Groundwater: Standing Water in the Hole Weeping from Pit Face: 70" Estimated Seasonal High Groundwater in the Hole











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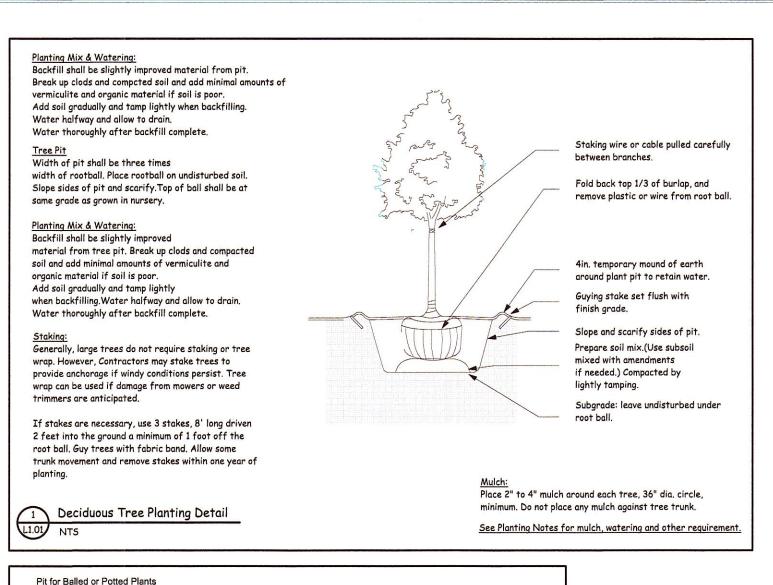
CONSTRUCTION DETAILS

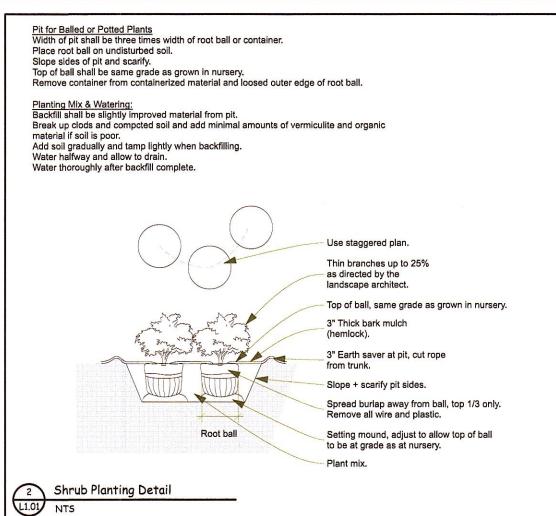
203 AYER ROAD HARVARD, MA

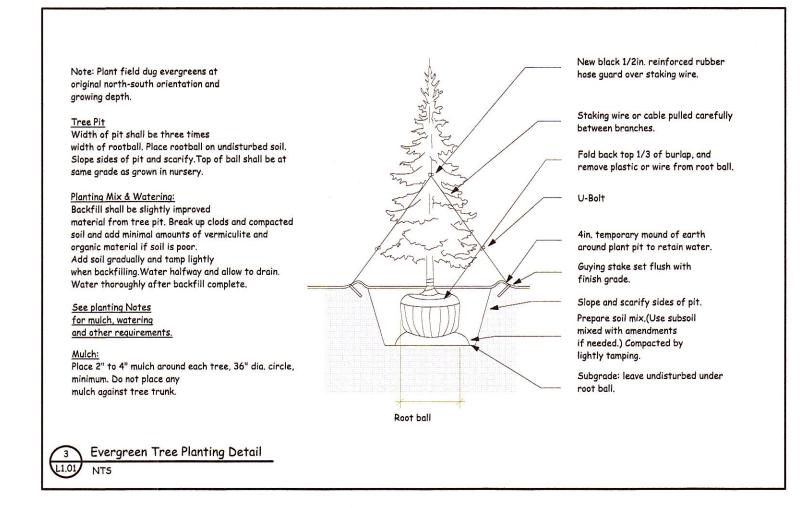
PREPARED FOR: YVONNE CHERN 7 GREEN WAY WAYLAND, MA 01778

WHEELER REALTY TRUST 198 AYER ROAD HARVARD, MA 01451

DES. BY: MCL JOB 211009 DATE: MARCH 2022 CHK. BY: NMP







Landscape Water Use Management

summer into fall.

New Installations of Trees, Shrubs, and Flowers

- 1. Provide temporary irrigation to all new plantings. Water with 2" of water to thoroughly soak the soils every day for two weeks following installation.
- through the first summer into fall. 3. Water well one final time in late November before the ground freezes to

2. Thereafter, water at 1" two times per week to maintain a moist soil

improve the plant's ability to tolerate winter desiccation.

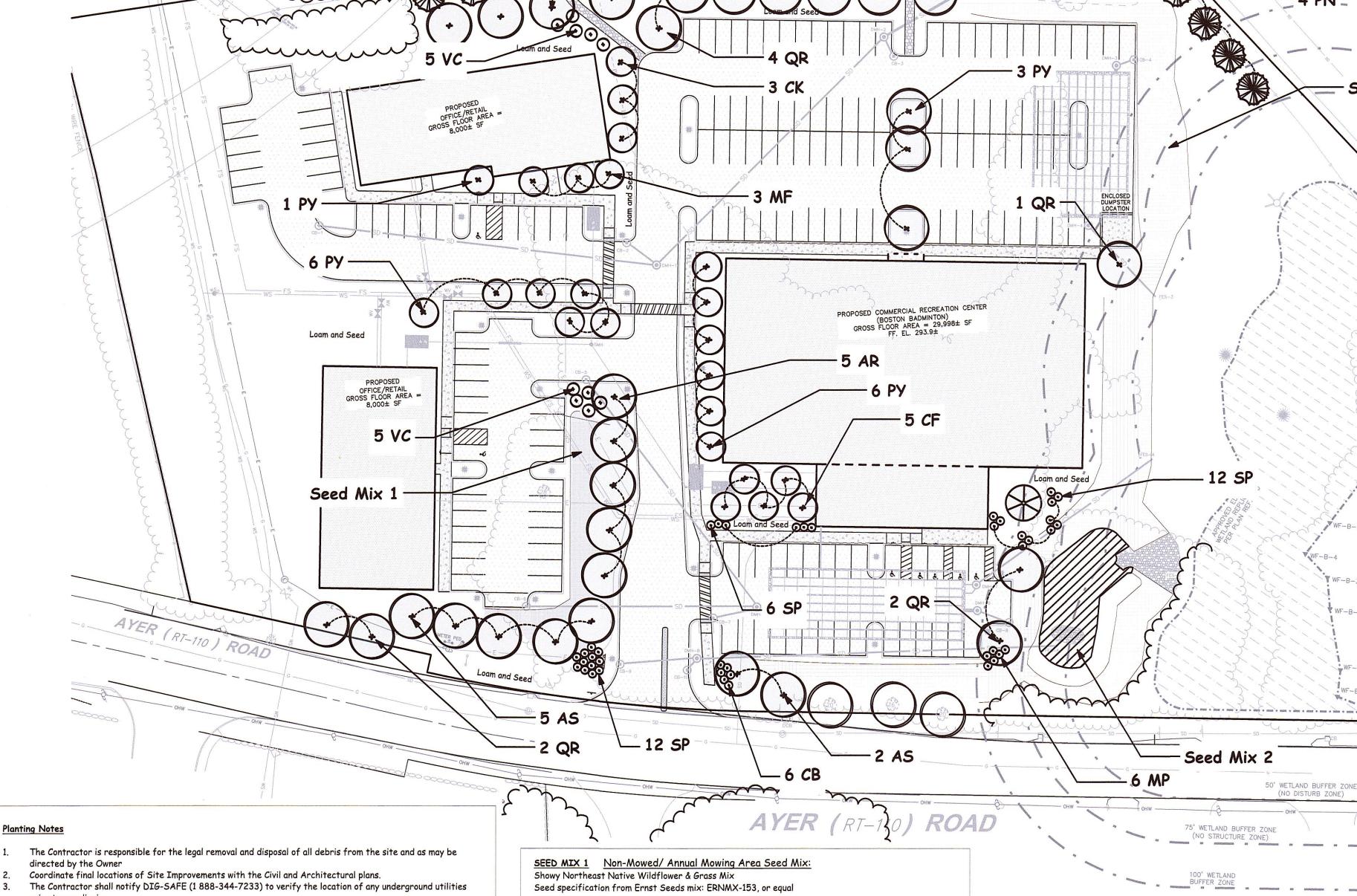
New Installations of Conservation Seed and Wild Flower Mixes

. Water with 2" of water (30 mins of aerial irrigation) to thoroughly soak

the soils every other day for two weeks following installation. 2. Water at 1" two times per week to maintain a moist soil through the first

Recommended Planting Seasons: Zone 5 and 6

Season Ends Spring Planting Season Begins April 1-15 May 15-30 April 1-15 May 15-30 Evergreens Deciduous Plants April 1-15 May 15-30 Fall Planting Season Ends Season Begins August 1-15 September 15-30 Evergreens September 1-15 November 1-15 Deciduous Plants October 1-15 November 15-30



6 RC -

— 6 RC

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PLANT LIST

Deciduous Trees

10 AS

5 CF

9 QR

16 PY

4 PN

3 TC

Shrubs

CK

Evergreen Trees

QTY SYM. SCIENTIFIC NAME

Acer rubrum 'October Glory'

Cornus x Stellar Pink

Cornus x Ruth Ellen

Prunus x yedoensis

Quercus rubra

Abies fraserii

Tsuga canadensis

Cornus baileyi

Myrica pensylvanica

Physocarpus opulifolius

Syringa meyeri 'Palibin'

Vaccinium corymbosum

Rhododendron catawbiense

Pinus nigra

Acer saccharum 'Green Mountain'

COMMON NAME

October Glory Red Maple

Stellar Pink Dogwood

Ruth Ellen Dogwood

Yoshino Cherry

Red Oak

Fraser Fir

Austrian Pine

Canadian Hemlock

Common Ninebark

Dwarf Korean Lilac

High Bush Blueberry

Catawba Rhododendron

Bailey Red Twig Dogwood

Green Mountain Sugar Maple

prior to any digging. 4. All plant material and planting procedures shall conform to the "American Standard for Nursery Stock" as

published by the American Nursery and Landscape Association. Contractor to stake proposed locations of all new plant material for LA review prior to planting. Plant List governs: Contractor to provide plants on list. Locations and quantities in planting areas are subject

to change under the discretion of the LA. The Contractor shall supply all plant materials in quantities sufficient to complete the shown on all drawings. All plant materials are subject to the approval of the Landscape Architect at the Nursery and at the site. All trees shall have single leader unless otherwise noted. No unapproved substitutions will be accepted. Plants species and cultivar, size and quantity shall not change without the approval of the Landscape Architect.

Location of all trees and shrubs shall be marked for the approval of the Landscape Architect the day prior to commencement of planting. 10. All plants shall bear the same relationship to finished grade as original grade before digging. Plants to be transplanted shall be carefully dug, with adequate root balls and surrounding soil and pruned according to ANA standard practices. Trees with root flare covered by more than 1 1/2" of soil will be rejected prior to

installation. Set plants plumb. 11. All trees and shrubs shall be balled in burlap or containerized, unless otherwise noted. No root bound container grown stock will be accepted. All plastic root wrapping and metal wire baskets shall be carefully

removed at the time planting. Wire directly under root ball can remain. The planting soil mixture shall be a sandy loam modified with organic components of 4-8% organic matter, dry weight, PH range of 5.5 to 6.5 and no coarse fragments over 2". A soil sample from the proposed planting medium shall be sent to the UMass Extension Service, University of Massachusetts, West Experiment Station, Amherst, MA 01003, tel: 413.545.2311, fax: 413.545.1931 to be analyzed for organic matter, acidity, soluble salts, buffer PH, potassium and silt and clay content.

13. Contractor shall place 3" of fine shredded dark brown, aged two years, pine bark mulch in all bed areas. Submit sample to Landscape Architect. 14. All evergreen plant material shall be sprayed in the first Fall after planting with an anti-desiccant the first

week of November. 15. Provide temporary irrigation system for all plant material. System to be functional for a spring and a fall planting season. Flood plants thoroughly once immediately after planting and twice during the first 24 hour

Extreme care shall be taken not to disturb existing plant materials unless the plant is specifically noted to be transplanted or removed. Any plant injured, removed or destroyed without permission, shall be replaced with plant material of equal size and species at the Contractor's expense.

17. Do not wrap trunk of trees. 18. Stake only deciduous trees on windy exposures or steeper slopes. Evergreen trees may be staked at the discretion of the Landscape Architect. Consult with Landscape Architect.

19. Contractor shall maintain the trees for a minimum of 60 days following preliminary acceptance of Landscape Architect. After 6 days, provide Owner with written maintenance instructions. 20. Contractor shall guarantee all plant material for a minimum of one (1) year from the date of final acceptance of the Landscape Architect. The Contractor shall replace any dead or horticulturally damaged trees at his

expense during the 1 year guarantee period. 21. Contractor shall provide Jute netting on steep slopes as directed by Civil Engineer to control soil erosion and

31.5%	Little Bluestem, Fort Indiantown Gap-PA Ecotype (Schizachyrium scoparium,
	Fort Indiantown Gap-PA Ecotype)
20%	Sideoats Grama, 'Butte' (Bouteloua curtipendula, 'Butte')
18%	Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype)
4%	Tall White Beardtongue, PA Ecotype (Penstemon digitalis, PA Ecotype)
4%	Partridge Pea, PA Ecotype (Chamaecrista fasciculata (Cassia f.), PA Ecotype)
3%	Purple Coneflower (Echinacea purpurea)
2.5%	Marsh (Dense) Blazing Star (Spiked Gayfeather) (Liatris spicat a)

Butterfly Milkweed (Asclepias tuberosa) Lanceleaf Coreopsis, Coastal Plain NC Ecotype (Coreopsis lanceolata, Coastal Plain NC Ecotype) Oxeye Sunflower, PA Ecotype (Heliopsis helianthoides, PA Ecotype) Blackeyed Susan, Coastal Plain NC Ecotype (Rudbeckia hirta, Coastal Plain NC Ecotype) 2% 1.5% New England Aster (Aster novae-angliae (Symphyotrichum n.)) 1.5% Smooth Blue Aster, NY Ecotype (Aster laevis (Symphyotrichum laeve), NY Ecotype)

2%

4%

3%

Total: 100%

1.5% Ohio Spiderwort, PA Ecotype (Tradescantia ohiensis, PA Ecotype) 1% Autumn Bentgrass, Albany Pine Bush-NY Ecotype (Agrostis perennans, Albany Pine Bush-NY Ecotype) 0.8% Browneyed Susan, WV Ecotype (Rudbeckia triloba, WV Ecotype) 0.5% Wild Senna, VA & WV Ecotype (Senna hebecarpa (Cassia h.), VA & WV Ecotype) 0.5% Wild Bergamot, Fort Indiantown Gap-PA Ecotype (Monarda fistulosa, Fort Indiantown Gap-PA Ecotype)

0.5% Maryland Senna (Senna marilandica (Cassia m.)) 0.5% Blue False Indigo, Southern WV Ecotype (Baptisia australis, Southern WV Ecotype) 0.5% Early Goldenrod, VA Ecotype (Solidago juncea, VA Ecotype) 0.2% Hoary Mountainmint, MD Ecotype (Pycnanthemum incanum, MD Ecotype) Total: 100%

Seed Mix 2 Detention/Infiltration Basin Seed Specification (from Ernst Seeds mix: ERNMX-180 -1, or equal)

River Oats, PA/VA Ecotype Blend (Chasmanthium latifolium) Fox Sedge, PA Ecotype (Carex vulpinoidea, PA Ecotype) 25% 20% Virginia Wildrye, PA Ecotype (Elymus virginicus, PA Ecotype) Autumn Bentgrass, PA Ecotype (Agrostis perennans, PA Ecotype) Blunt Broom Sedge, PA Ecotype (Carix scoparia) Soft Rush (Juncus effusus) 1 % Path Rush, PA Ecotype (Juncus tenuis)

COMMENTS

NE Native

NE Native

4"-5" cal.

4"-5" cal.

2.5"-3" cal.

2.5"-3" cal.

2"-2.5" cal.

8'-10' Tall

4"-5" cal. NE Native

8'-10' Tall Native

8'-10' Tall Native

3'-3.5' Tall Native 3'-3.5' Tall Native

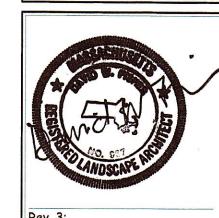
4.5'-5' Tall Native

4.5'-5' Tall Native

4.5'-5' Tall Native

Seed Mix 2

Seed Mix



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Date: March 10, 2022 Scale: 1"=40'

> Sheet L-1.01 Planting