

DATE SIGNED \_\_\_\_\_

DATE SIGNED \_\_\_\_\_



GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD, BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING, ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
2. EXISTING CONDITIONS INFORMATION IS BASED ON ACTUAL FIELD SURVEY, PRIVATE UTILITY PLANS, AND OTHER AVAILABLE SOURCES. ACTUAL FIELD SURVEY WAS PERFORMED BY G.A.F. ENGINEERING, INC. ON VARIOUS DATES AND MOST RECENTLY IN FEBRUARY OF 2014.
3. THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES, COMPLY WITH ALL LAWS AND REGULATIONS, AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF THIS WORK.
4. THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POWER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE, TESTING, START-UP AND COMPLETION OF THIS WORK.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS DISCOVERED IN THE FIELD.
7. ANY CHANGES TO THESE SITE PLANS THAT ARE MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS AND REPORTED TO THE OWNER AND ENGINEER.
8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND TRENCH PERMIT PURSUANT TO 520 CMR 14.00 AS APPLICABLE PRIOR TO THE START OF CONSTRUCTION.
9. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD.

CONSTRUCTION NOTES:

1. IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
2. THE LOCATION OF UTILITIES WERE OBTAINED FROM VARIOUS SOURCES OF INFORMATION. THE EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION (1-888-DIG-SAFE OR 811). G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE OR ADJACENT THERETO INCLUDING TREES, SHRUBS, LAWNS, PAVEMENTS, ROADWAYS, STRUCTURES AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
5. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.
6. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
7. ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
8. THE CONTRACTOR SHALL INSTITUTE ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY. THIS SHALL INCLUDE, BUT NOT LIMITED TO, BARRICADES, SIGNS, LIGHTING, FENCES, POLICE DETAILS, AND ANY OTHER MEANS AS DIRECTED. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
9. ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
10. SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
11. ALL SIDE SLOPES SHALL BE DRESSED WITH 4 INCHES OF TOPSOIL. WHERE SIDE SLOPES EXCEED 3:1, PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SEE PLAN FOR LOCATIONS.
12. PERMANENT SEEDING (BEFORE SEPTEMBER 15) LIME TO PH OF 6.5 ACCORDING TO SOIL TEST OR APPLY AT THE RATE OF 100 TO 150 LBS. PER 1,000 SQUARE FEET. APPLY 10-20-20 FERTILIZER AT 1,000 LBS. PER ACRE. INCORPORATE LIME AND FERTILIZER IN TOP 4 INCHES OF SOIL. SEED 100 LBS. PER ACRE OF THE FOLLOWING SEED MIX.

PURE PERCENT	SEED
30-35%	CREeping RED FESCUE
30-35%	PERENNIAL RYEGRASS
20-25%	KENTUCKY BLUEGRASS
10-15%	ANNUAL RYEGRASS

HYDRO SEEDING IS AN ALTERNATIVE FOR THIS APPLICATION. A MIXTURE OF SEED WATER AND MULCH IS SPRAYED ON THE SEED BED COMBINING THREE (3) SEPARATE ACTIONS INTO ONE (1) OPERATION

13. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.
15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.

TOWN OF CARVER  
APPROVAL UNDER THE SUBDIVISION  
CONTROL LAW IS REQUIRED

DATE APPROVED \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
DATE SIGNED \_\_\_\_\_

TOWN OF CARVER

'THIS IS TO CERTIFY THAT TWENTY DAYS  
HAVE ELAPSED SINCE THE NOTICE OF  
THE APPROVAL FROM THE PLANNING  
BOARD WAS RECEIVED AND RECORDED,  
AND THAT NO NOTICE OF APPEAL HAS  
BEEN FILED IN THIS OFFICE'

TOWN CLERK \_\_\_\_\_

DATE SIGNED \_\_\_\_\_

"I CERTIFY THAT THIS PLAN HAS  
BEEN PREPARED IN CONFORMANCE  
WITH THE RULES AND REGULATIONS  
OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE

FOR REGISTRY USE ONLY

DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.

1. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP-RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.
2. EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
3. ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM PRIOR TO CONSTRUCTION. ALL PROPOSED CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL EMPTY AS NEEDED AND REMOVE AND DISPOSE OF THE SILT SACKS AT THE COMPLETION OF CONSTRUCTION. ALL EXISTING AND PROPOSED CATCH BASINS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
4. THE DRAINAGE BASIN SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED AREA SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. ALL AREAS SHALL BE INSPECTED WEEKLY, AND AFTER LARGE STORMS. IF THERE IS EVIDENCE OF EROSION, THE ERODED AREA SHALL BE RE-STABILIZED, AND MEASURES SHALL BE TAKEN TO PREVENT REOCCURRENCE. THIS SCHEDULE MUST BE ADHERED TO BY THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.

POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

UPON THE COMPLETION OF ROADWAY CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY A.D. MAKEPEACE COMPANY, INC. AND ITS SUCCESSORS OR THE HOME OWNER'S ASSOCIATION ON THE ROADWAY AND DRAINAGE FACILITIES. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.

1. STREET SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR REGENERATIVE AIR SWEEPER. STREET SWEEPING SHALL BE DONE TWICE PER YEAR, ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS APPROVED BY MASSDEP (SEE POLICY # BAW-18-001: REUSE & DISPOSAL OF STREET SWEEPINGS).
2. DEEP SUMP CATCH BASINS ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT CATCH BASINS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS). IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
3. SEDIMENT FOREBAY IS AN EXCAVATED PIT, BERMED AREA DESIGNED TO SLOW INCOMING STORMWATER RUNOFF AND FACILITATING THE GRAVITY SEPARATION OF SUSPENDED SOLIDS. SEDIMENT FOREBAYS SHALL BE INSPECTED MONTHLY AND CLEANED OUT AT LEAST FOUR (4) TIMES PER YEAR. WHEN MOWING GRASSES, KEEP THE GRASS HEIGHT NO GREATER THAN SIX (6) INCHES. SET MOWER BLADES NO LOWER THAN THREE (3) INCHES. CHECK FOR SIGNS OF RILLING AND GULLING AND REPAIR AS NEEDED. AFTER REMOVING SEDIMENT, REPLACE ANY VEGETATION DAMAGED DURING THE CLEAN-OUT BY EITHER RESEEDING OR RESODDING. WHEN RESEEDING, INCORPORATE PRACTICES SUCH AS HYDROSEEDING WITH A TACKIFIER, BLANKET OR SIMILAR PRACTICE TO ENSURE THAT NO SCOUR OCCURS IN THE FOREBAY, WHILE THE SEEDS GERMINATE AND DEVELOP ROOTS.
4. DRAINAGE BASIN AREAS SHALL BE INSPECTED AT LEAST FOUR TIMES PER YEAR TO ENSURE THE BASINS ARE OPERATING AS INTENDED. ALSO INSPECT THE BASINS DURING AND AFTER MAJOR STORM EVENTS TO DETERMINE IF THE BASINS ARE MEETING THE EXPECTED DETENTION TIMES. EXAMINE THE OUTLET STRUCTURE FOR EVIDENCE OF CLOGGING OR OUTFLOW RELEASE VELOCITIES GREATER THAN THE DESIGN FLOW. POTENTIAL PROBLEMS THAT SHALL BE CHECKED INCLUDE: SUBSIDENCE, EROSION, CRACKING OR TREE GROWTH ON THE EMBANKMENT; DAMAGE TO THE EMERGENCY SPILLWAY; SEDIMENT ACCUMULATION AROUND THE OUTLET STRUCTURE; INADEQUACY OF THE INLET/OUTLET CHANNEL EROSION CONTROL MEASURES; CHANGES IN THE CONDITION OF THE PILOT CHANNEL; AND EROSION WITHIN THE BASIN AND BANKS. MAKE ANY NECESSARY REPAIRS IMMEDIATELY. MOW THE UPPER-STAGE, SIDE SLOPES AND EMBANKMENTS AT LEAST TWICE PER YEAR. REMOVE SEDIMENT AS NECESSARY, BUT AT LEAST ONCE EVERY FIVE YEARS. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
5. STONE SPLASH PADS SHALL BE CLEANED FOUR TIMES PER YEAR AND INSPECTED MONTHLY. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE REMOVED AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. REMOVE AND REPLACE STONE & FILTER FABRIC AS NEEDED.

DRAINAGE INSTALLATION NOTES:

1. ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED ON THE PLANS, ARE TO BE ADS N-12 PIPE OR AN APPROVED H.D.P.E. EQUAL WITH SOIL TIGHT FITTINGS. ALL PIPE JOINTS SHALL BE SEALED USING RUBBER GASKETS. ALL PIPE CONNECTIONS TO MANHOLES & CATCH BASINS SHALL BE MADE USING FLEXIBLE CONNECTIONS OF A TYPE APPROVED BY THE OPERATIONS AND MAINTENANCE DEPARTMENT. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.
2. ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 4" ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00% REFER TO PLAN FOR LOCATION.
3. MIN. COVER ON PIPES SHALL NOT BE LESS THAN 2.5 FEET.
4. WHERE REQUIRED ALL PIPE PERFORATIONS SHALL BE AASHTO CLASS II.
5. ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.
6. ALL DRAIN MANHOLES, CATCH BASINS AND DRAIN PIPE SHALL NOT BE BACKFILLED UNTIL INSPECTED AND APPROVED BY THE DIRECTOR OF THE OPERATIONS AND MAINTENANCE DEPARTMENT. ALL COVERS AND GRATES SHALL BE SET TO PAVEMENT BINDER COURSE AND ADJUSTED TO FINAL GRADE FOR THE CONSTRUCTION OF THE PAVEMENT TOP COURSE.
7. WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
8. ALL FUTURE STRUCTURES SHALL BE EQUIPPED WITH ROOF DRAIN DRYWELLS.

WATER INSTALLATION NOTES:

1. ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE TOWN OF CARVER GUIDELINES & SPECIFICATIONS FOR A FIRE PROTECTION DISTRIBUTION SYSTEMS.
2. WATER MAIN SHALL BE PRESSURE TESTED, FLUSHED & DISINFECTED IN ACCORDANCE WITH THE TOWN OF CARVER.
3. CONTRACTOR TO COORDINATE WITH THE TOWN OF CARVER FOR THE INSPECTIONS OF THE WATER MAIN INSTALLATION.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE INSTALLATION OF THE WATER MAIN.
5. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATIONS FROM THE TOWN OF CARVER FIRE DEPARTMENT BEFORE PROCEEDING WITH THE INSTALLATION OF THE WATER MAIN.
6. WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL PROPOSED DRAINAGE LINES.
7. ALL BENDS, TEES, CAPS AND HYDRANTS SHALL BE BACKED WITH CONCRETE THRUST BLOCKS. MEGALUGS ARE TO BE INSTALLED ON ALL BENDS, VALVES, TEES, AND CAPS.
8. ALL WATER MAINS SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH PUSH-ON JOINTS.

EROSION CONTROL NOTES:

1. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION; ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
2. EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
5. CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
8. CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE.
9. IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
10. SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE. MAINTAIN DUST CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
11. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN DEWATERING EQUIPMENT. THE FINAL SIZE AND LOCATION OF DEWATERING EQUIPMENT SHALL BE FIELD DETERMINED BY THE CONTRACTOR AT TIME OF CONSTRUCTION.
12. THE CONTRACTOR WILL ALSO NEED TO COMPLY TO ANY ORDER OF CONDITIONS THAT MAY BE ISSUED BY THE TOWN OF CARVER CONSERVATION COMMISSION.

TEST PIT DATA

TEST PITS 22, 23, 24 & 25

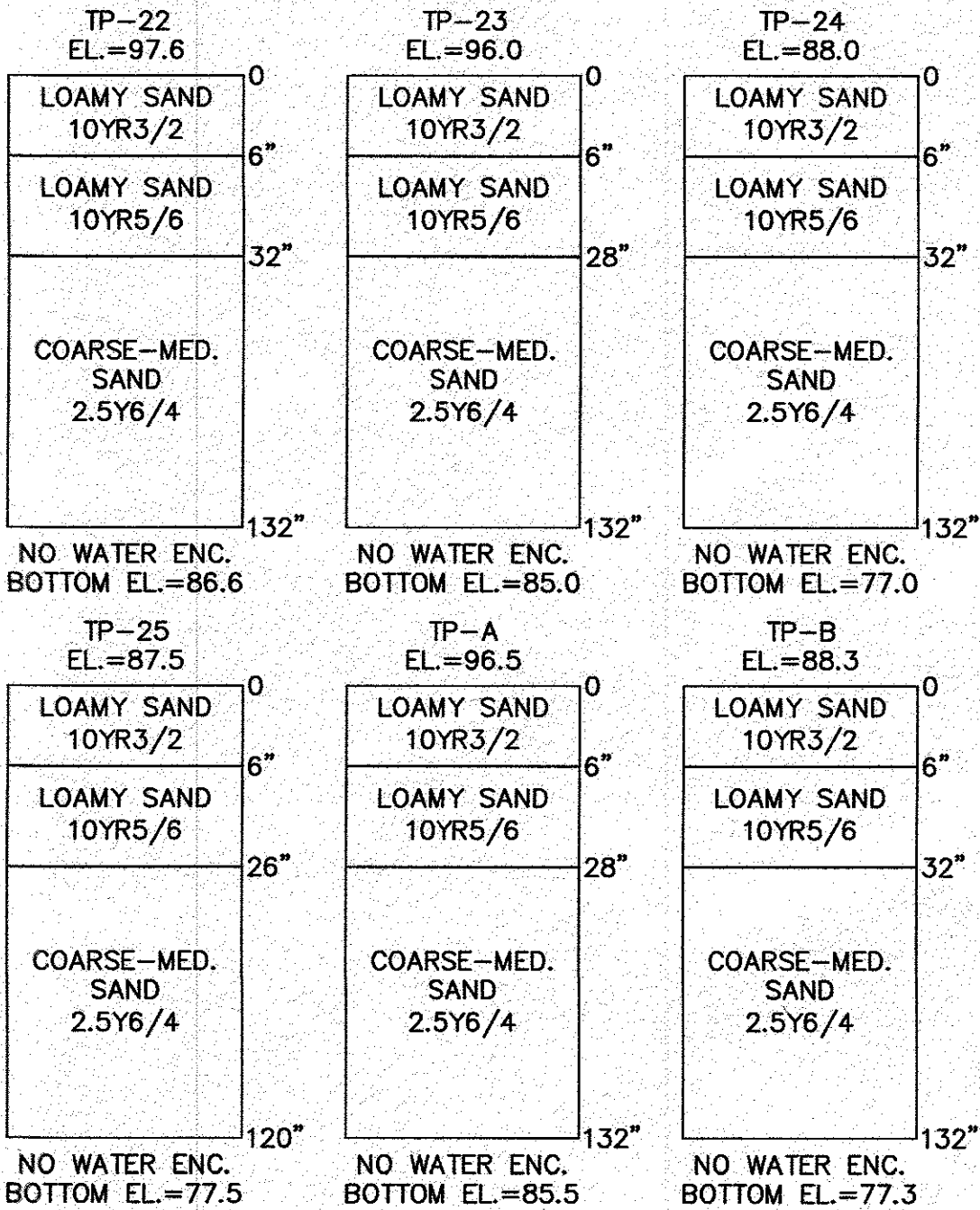
DATE OF TESTING: MAY 29, 2014

PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING INC.  
TOWN OF CARVER BOARD OF HEALTH AGENT: ROBERT TINKHAM

TEST PITS A & B

DATE OF TESTING NOVEMBER 2, 2022

PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING, INC.  
REFER TO SHEET 10 FOR ALL TEST PIT LOCATIONS



ABBREVIATIONS

AC	ASBESTIC CONCRETE
ADS	ADVANCED DRAINAGE SYSTEM
APPROX.	APPROXIMATE
BC	BOTTOM OF CURB
BIT. CONC.	BITUMINOUS CONCRETE
BLDRS	BOULDERS
BW	BOTTOM OF WALL
BVW	BORDERING VEGETATED WETLANDS
CB	CATCH BASIN
CB/DH	CONCRETE BOUND/DRILL HOLE
CAPE	CAPE COD BERM
CEM.	CEMENT
C.I.	CAST IRON
CONC.	CONCRETE
C.O.	CLEAN OUT
C.L.D.I.	CEMENT LINED DUCTILE IRON
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
DIA	DIAMETER
DMH	DRAIN MANHOLE
D.I.	DUCTILE IRON
DCS	DRAINAGE CONTROL STRUCTURE
E	ELECTRIC
ELEV., EL.	ELEVATION
EXP	EDGE OF PAVEMENT
EX	EXISTING
F.D.C.	FIRE DEPARTMENT CONNECTION
F.E.S.	FLARED END SECTION
F.F.E.	FINISHED FLOOR ELEVATION
FND.	FOUND
FP	FIRE PROTECTION
G	GAS
GG, GV	GAS GATE, GAS VALVE
H.C.	HANDICAP PARKING
H.D.P.E.	HIGH DENSITY POLYETHYLENE
HMA	HOT MIXED ASPHALT
HYD	HYDRANT
INV.	INVERT
MAX	MAXIMUM
MED	MEDIUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
N/F	NOW OR FORMERLY
OHW	OVERHEAD WIRE
PCC	PRECAST CONCRETE CURBING
PVC	POLYVINYL CHLORIDE PIPE
PROP.	PROPOSED
RCP	REINFORCED CONCRETE PIPING
R	RADIUS
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCK
SB/DH	STONE BOUND/DRILL HOLE
S	SEWER
SGC	SLOPED GRANITE CURBING
SMH	SEWER MANHOLE
STA	STATION
TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL
T/O/F	TOP OF FOUNDATION
ULP	UTILITY POLE
UE	UNDERGROUND ELECTRIC
VGC	VERTICAL GRANITE CURB
W	WATER
WG, WV	WATER GATE, WATER VALVE
WQS	WATER QUALITY STRUCTURE

LEGEND

EXISTING	DESC.	PROPOSED
	55	CONTOURS
	53x5	SPOT GRADES
		WETLANDS
		F.E.M.A. FLOOD ZONE
	D	DRAIN LINE
	RD	PERFORATED DRAIN LINE
		ROOF DRAIN LINE
	CB	CATCH BASIN (CB)
	DMH	DRAIN MANHOLE (DMH)
	C.O.	CLEAN OUT (C.O.)
	EMH	ELECTRIC MANHOLE (EMH)
	UE	UNDERGROUND UTILITIES
	OHW	OVERHEAD WIRES
	UP	UTILITY POLE
	GP	GUY POLE
	WGV	WATER GATE VALVE
	WSS	WATER SHUTOFF/CURB STOP
	H	HYDRANT
	PIV	POST INDICATOR VALVE
	WL	WATER LINE
	FPL	FIRE PROTECTION LINE
	SMH	SEWER MANHOLE (SMH)
	S	SEWER LINE
	TL	TREELINE
	LP	LIGHT POST
	GL	GAS LINE
	GV	GAS GATE/VALVE
	GS	GAS SHUTOFF
	GM	GAS METER
	SIGN	SIGN
	FENCE	FENCE
	BOUND	BOUND
	TEST PIT	TEST PIT/PERC. TEST
	SILT FENCE	SILT FENCE
	GUARD RAIL	GUARD RAIL
	FLARED END SECTION	FLARED END SECTION
	STONE WALL	STONE WALL

G.A.F. ENGINEERING, INC.  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
286 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 293-6600 FAX: (508) 295-6634  
E-MAIL: info@gafenginc.com

"WANKINCO"  
DEFINITIVE SUBDIVISION PLAN  
GENERAL NOTES & LEGEND  
FEDERAL ROAD  
CARVER, MA

PREPARED FOR:

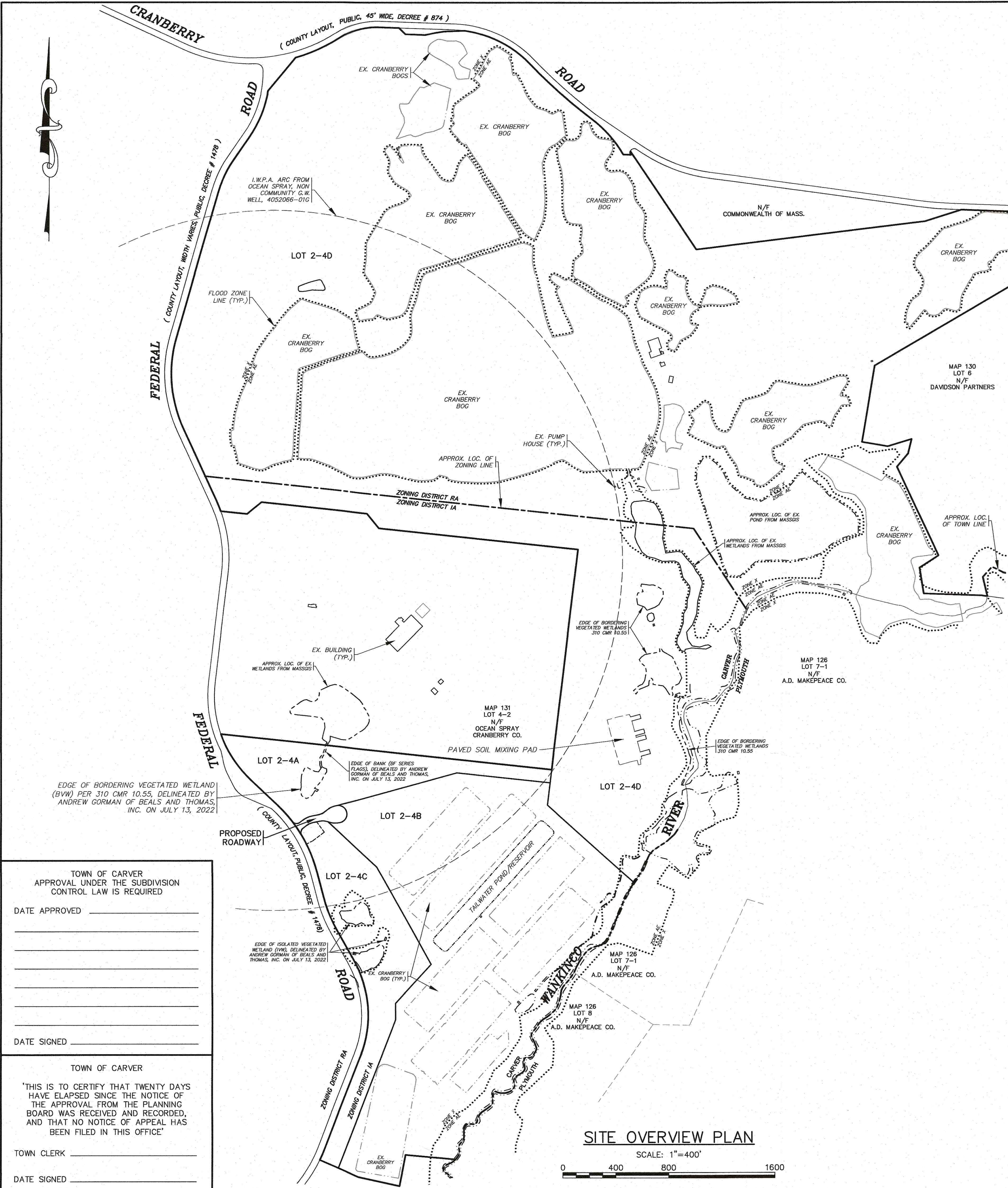
A.D. MAKEPEACE COMPANY

158 THONET ROAD  
WAREHAM, MA

JOB NO.: 22-9873

DWG. 2 OF 12





"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE

DATE	DRAWN BY	CHECKED BY	JOB NO.	SCALE	REV.	DATE	BY	APP'D	DESCRIPTION
NOV. 2, 2022	JMP	WFM	22-9873	1" = 400'					

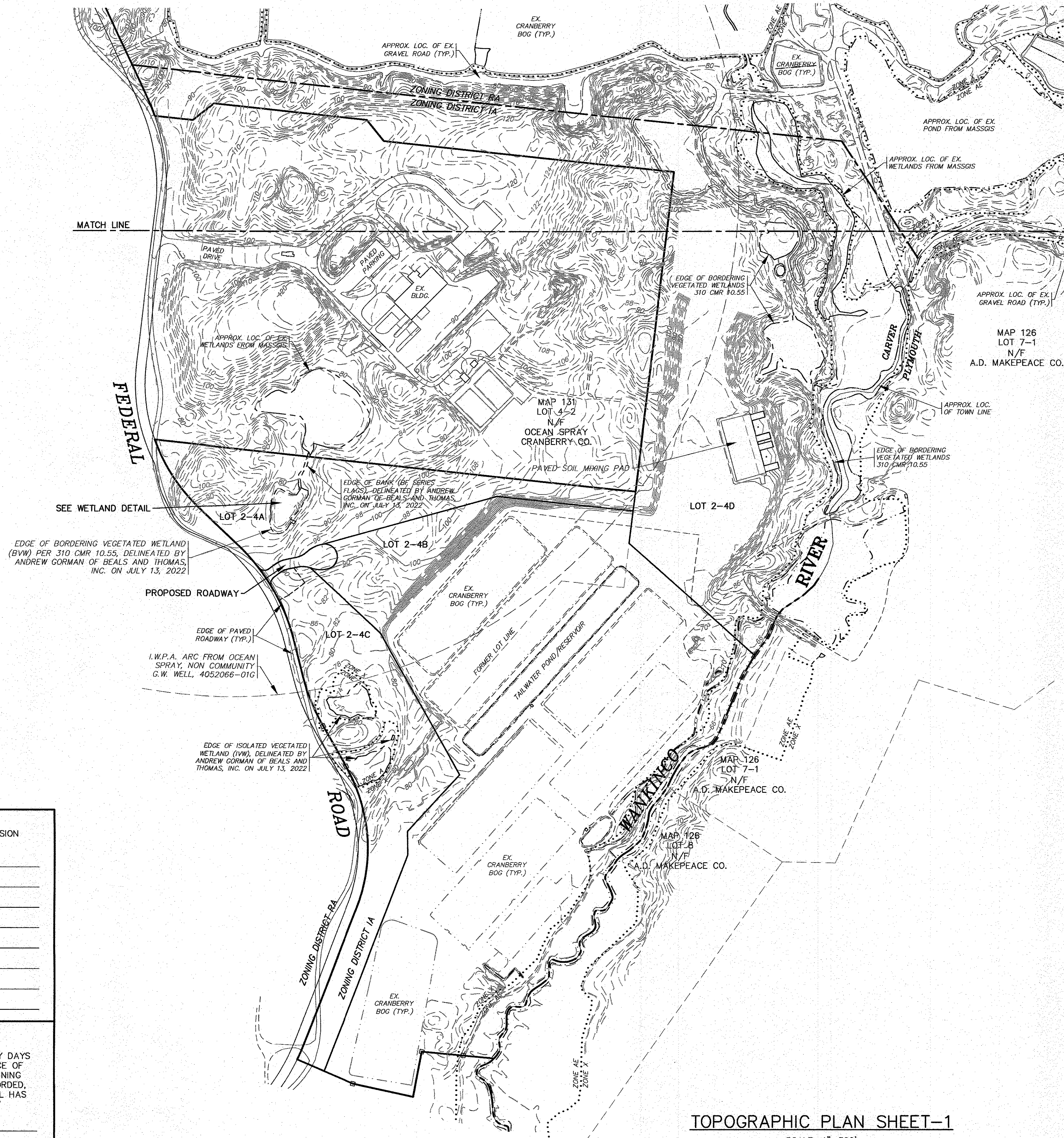
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NOV. 2, 2022	JMP	WFM	22-9873	1" = 400'					

DATE	DRAWN BY	CHECKED BY	JOB NO.	SCALE	REV.	DATE	BY	APP'D	DESCRIPTION
NOV. 2, 2022	JMP	WFM	22-9873	1" = 400'					

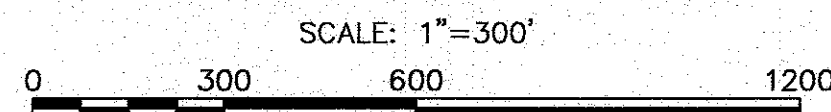
DATE	DRAWN BY	CHECKED BY	JOB NO.	SCALE	REV.	DATE	BY	APP'D	DESCRIPTION
NOV. 2, 2022	JMP	WFM	22-9873	1" = 400'					

DATE	DRAWN BY	CHECKED BY	J
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TOPOGRAPHIC PLAN SHEET-1



FOR REGISTRY USE ONLY

"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE

DATE: NOV. 2, 2022  
DRAWN BY: JNP  
CHECKED BY: WFM  
JOB NO.: 22-9873  
SCALE: 1" = 300'

APPROVED BY:

APPROVED BY:

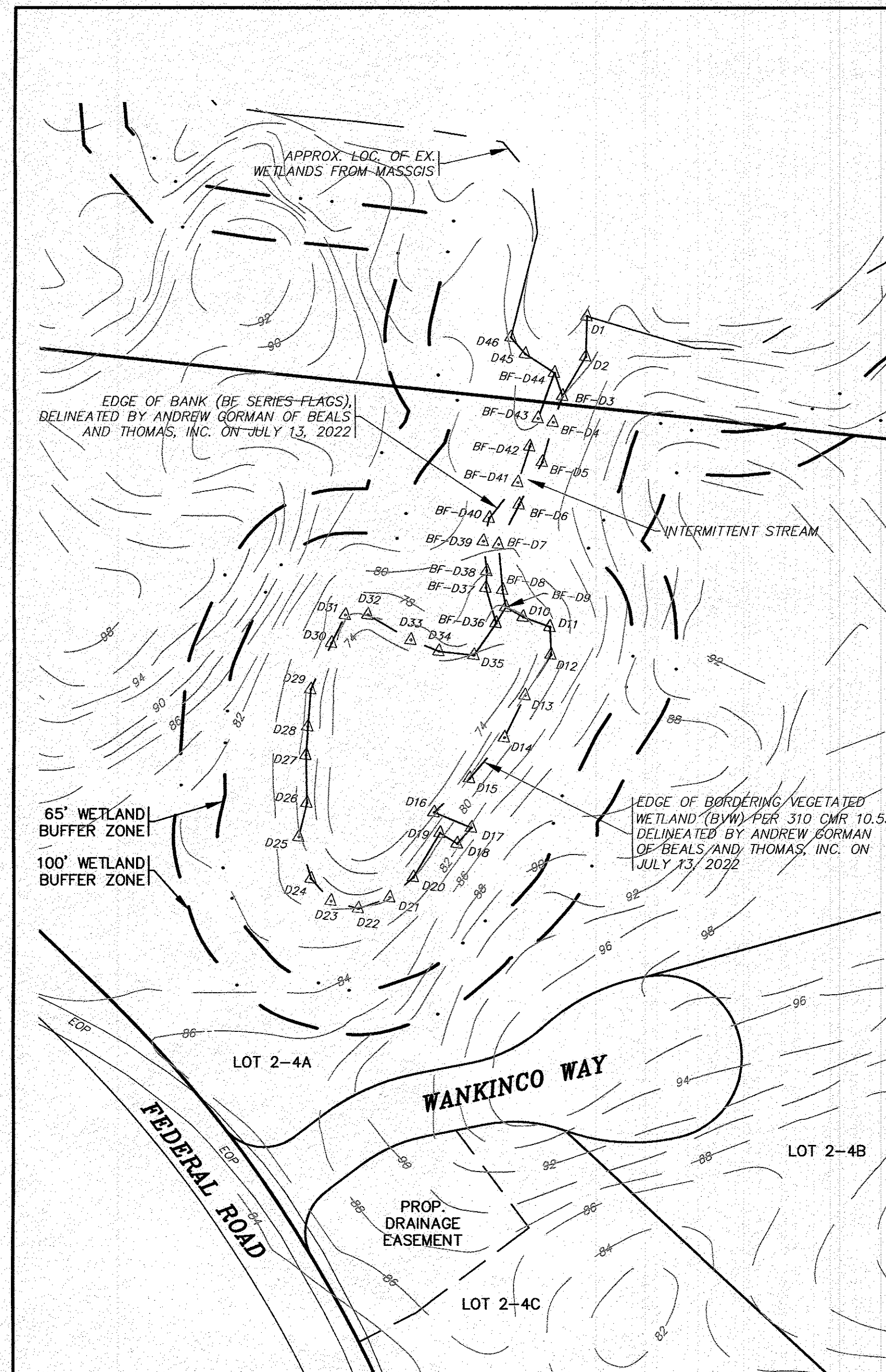
G.A.F. ENGINEERING, INC.  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
286 MAIN STREET - WARCHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafengr.com

"WANKINCO"  
DEFINITIVE SUBDIVISION PLAN  
TOPOGRAPHIC PLAN SHEET-1  
FEDERAL ROAD  
CARVER, MA

JOB NO.: 22-9873

DWG. 4 OF 12

PREPARED FOR:  
A.D. MAKEPEACE COMPANY  
158 THONET ROAD  
WARCHAM, MA

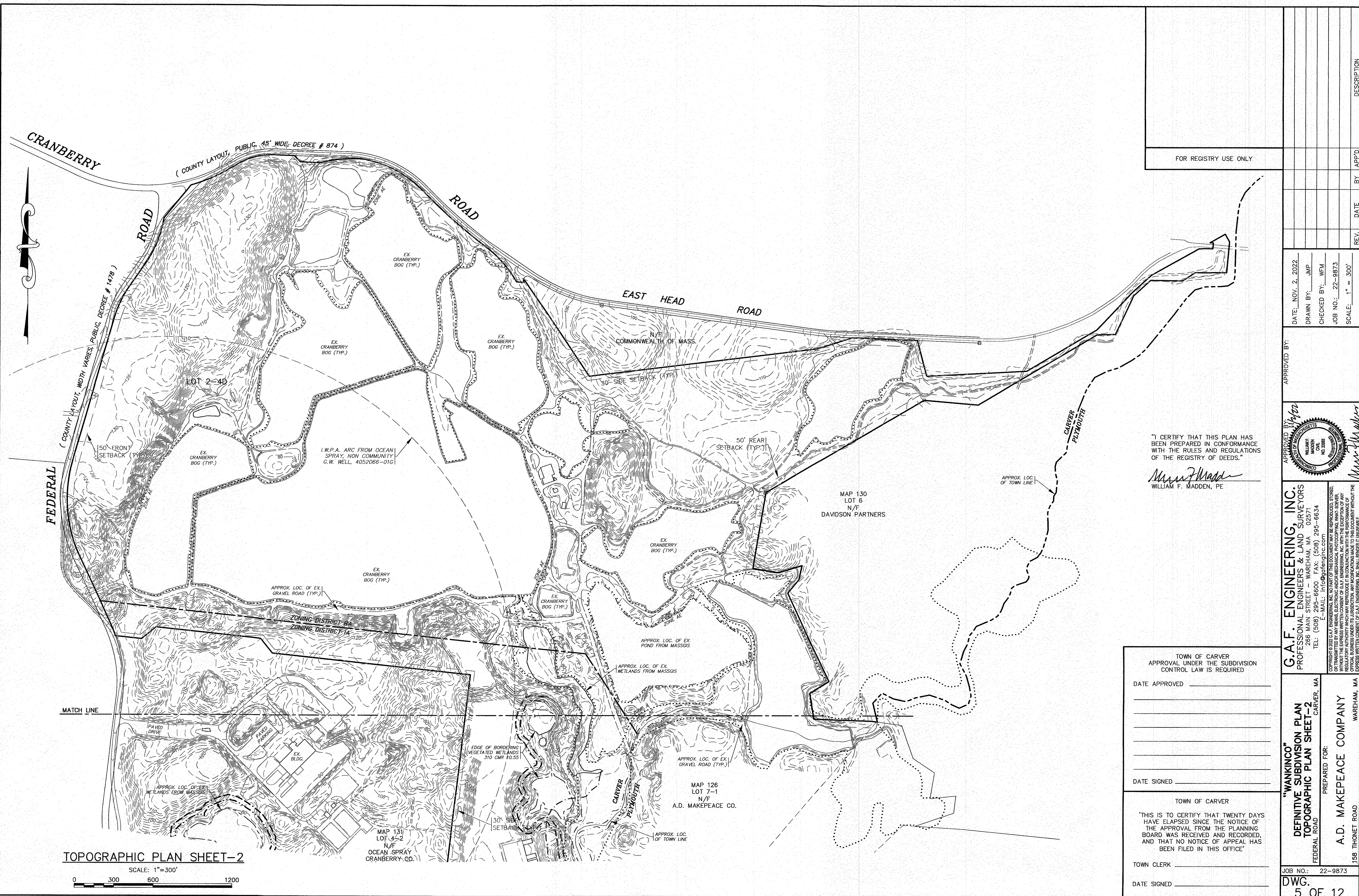


WETLAND DETAIL

SCALE: 1"=80'

TOWN OF CARVER APPROVAL UNDER THE SUBDIVISION CONTROL LAW IS REQUIRED	
DATE APPROVED _____	
_____	
_____	
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_____	
DATE SIGNED _____	
TOWN OF CARVER	
'THIS IS TO CERTIFY THAT TWENTY DAYS HAVE ELAPSED SINCE THE NOTICE OF THE APPROVAL FROM THE PLANNING BOARD WAS RECEIVED AND RECORDED, AND THAT NO NOTICE OF APPEAL HAS BEEN FILED IN THIS OFFICE'	
TOWN CLERK _____	
DATE SIGNED _____	



[illegible][illegible]

DATE: NOV. 2, 2022  
DRAWN BY: JMP  
CHECKED BY: WFM  
JOB NO.: 22-9873  
SCALE: 1" = 300'

APPROVED BY:

APPROVED BY: *[Signature]*

COMMONWEALTH OF MASSACHUSETTS  
WILLIAM F. MADDEN  
JUDICIAL CIVIL  
NO. 32983  
RECEIVED  
REGISTERED  
PROFESSIONAL

*[Signature]*

**F. ENGINEERING, INC.**  
**SSIONAL ENGINEERS & LAND SURVEYORS**  
 266 MAIN STREET - WAREHAM, MA 02571  
 TEL: (508) 295-6600 FAX: (508) 295-6634  
 E-MAIL: [info@fenginc.com](mailto:info@fenginc.com)

TOWN OF CARVER  
APPROVAL UNDER THE SUBDIVISION  
CONTROL LAW IS REQUIRED

DATE APPROVED \_\_\_\_\_

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DATE SIGNED \_\_\_\_\_

<p>TOWN OF CARVER</p> <p>'THIS IS TO CERTIFY THAT TWENTY DAYS HAVE ELAPSED SINCE THE NOTICE OF THE APPROVAL FROM THE PLANNING BOARD WAS RECEIVED AND RECORDED, AND THAT NO NOTICE OF APPEAL HAS BEEN FILED IN THIS OFFICE'</p> <p>TOWN CLERK _____</p> <p>DATE SIGNED _____</p>	
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JOB NO.	DWG.	22-9873	<b>"WANKINCO"</b> <b>DEFINITIVE SUBDIVISION PLAN</b> <b>TOPOGRAPHIC PLAN SHEET-2</b> FEDERAL ROAD CARVER, MA	G.A. PROFFER PROJECT ARCHITECT 158 THONET ROAD WAREHAM, MA	CONSTRUCTION OF TRANSMISSION WITHOUT THE OFFICIAL SEAL OF PROFESSIONAL ENGINEER EXPRESSLY FORBIDDEN
5	OF	12	PREPARED FOR: <b>A.D. MAKEPEACE COMPANY</b> 158 THONET ROAD WAREHAM, MA		



FLOOD ZONE DATA:

THE PROJECT IS WITHIN FLOOD ZONE X & ZONE A, & ZONE AE REFER TO THE F.E.M.A. FLOOD INSURANCE RATE MAP PANEL NUMBER 25023C0478K, DATED: JULY 6, 2021 AND NUMBER 25023C0479K, DATED: JULY 6, 2021.

PLAN PURPOSE:

THE PURPOSE OF THIS PLAN IS TO CREATE LOTS 2-4A, 2-4B, 2-4C AND 2-4D FROM LOTS 2-4 AND 4-3.

LOT DATA:

ASSESSORS MAP: 131 / LOT 2-4  
ADDRESS: 46 FEDERAL ROAD

ASSESSORS MAP: 131 / LOT 4-3  
ADDRESS: FEDERAL ROAD

OWNER:  
A.D. MAKEPEACE COMPANY  
158 TIRONET ROAD  
WAREHAM, MA 02571

ZONING DATA:

ZONE: RESIDENTIAL / AGRICULTURAL (RA)

SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 150'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 50'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 35'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MINIMUM LOT WIDTH: 75'  
MAXIMUM BUILDING COVERAGE: 30%

ZONE: INDUSTRIAL "A" (IA)

SETBACKS:  
MINIMUM LOT AREA: 60,000 S.F.  
MINIMUM FRONTAGE: 175'  
MINIMUM FRONT SETBACK: 50'  
MINIMUM REAR SETBACK: 30'  
MINIMUM SIDE SETBACK: 30'  
MAXIMUM BUILDING HEIGHT: 40'  
MINIMUM LOT WIDTH AT BLDG. LINE: 80%  
MAXIMUM BUILDING COVERAGE: 50%

OVERLAY DISTRICT: WATER RESOURCE PROTECTION OVERLAY DISTRICT.

"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

THE CERTIFICATION MADE HEREON IS INTENDED TO MEET THE REGISTRY OF DEEDS REQUIREMENTS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN.

ABUTTERS SHOWN ARE FROM THE TOWN OF CARVER TAX ASSESSMENT RECORDS.

WILLIAM F. MADDEN, PE

TOWN OF CARVER  
APPROVAL UNDER THE SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED

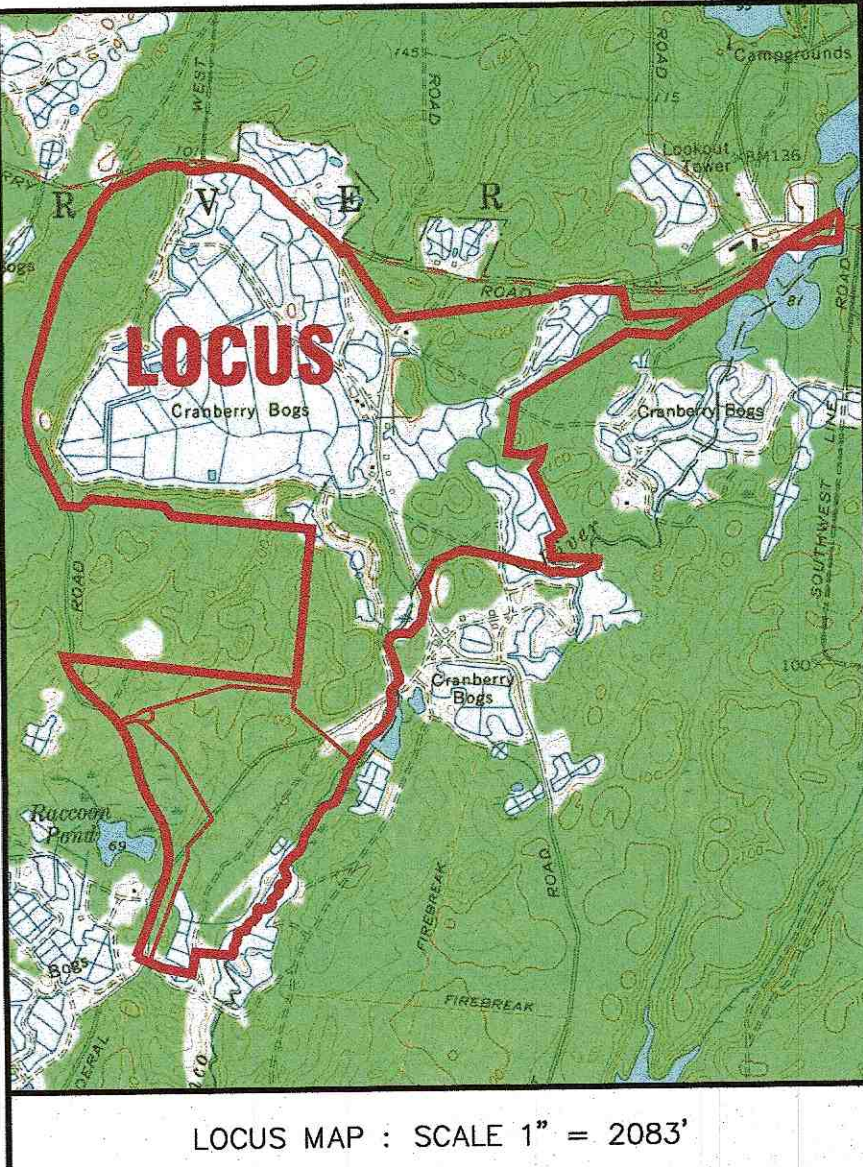
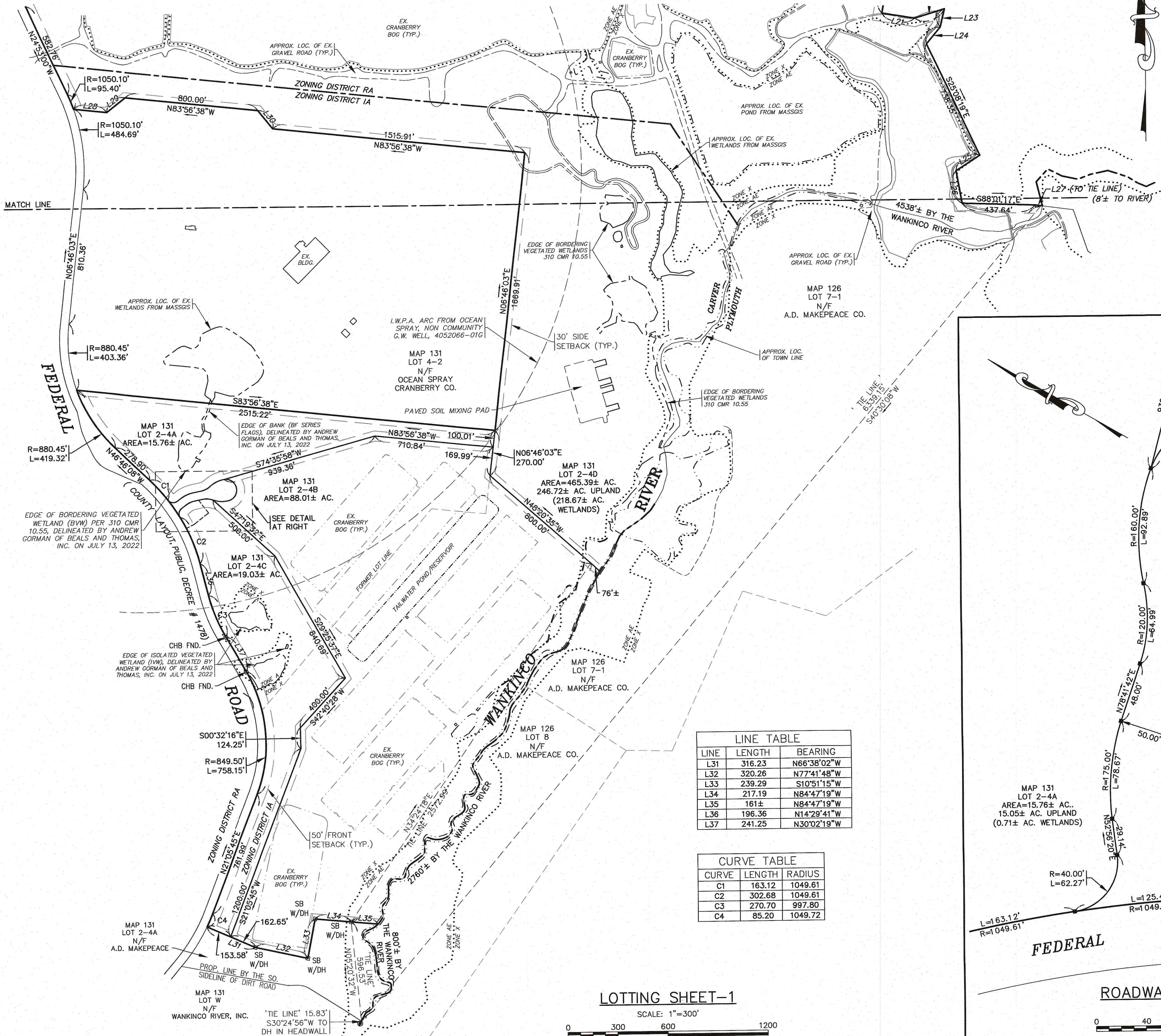
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TOWN OF CARVER

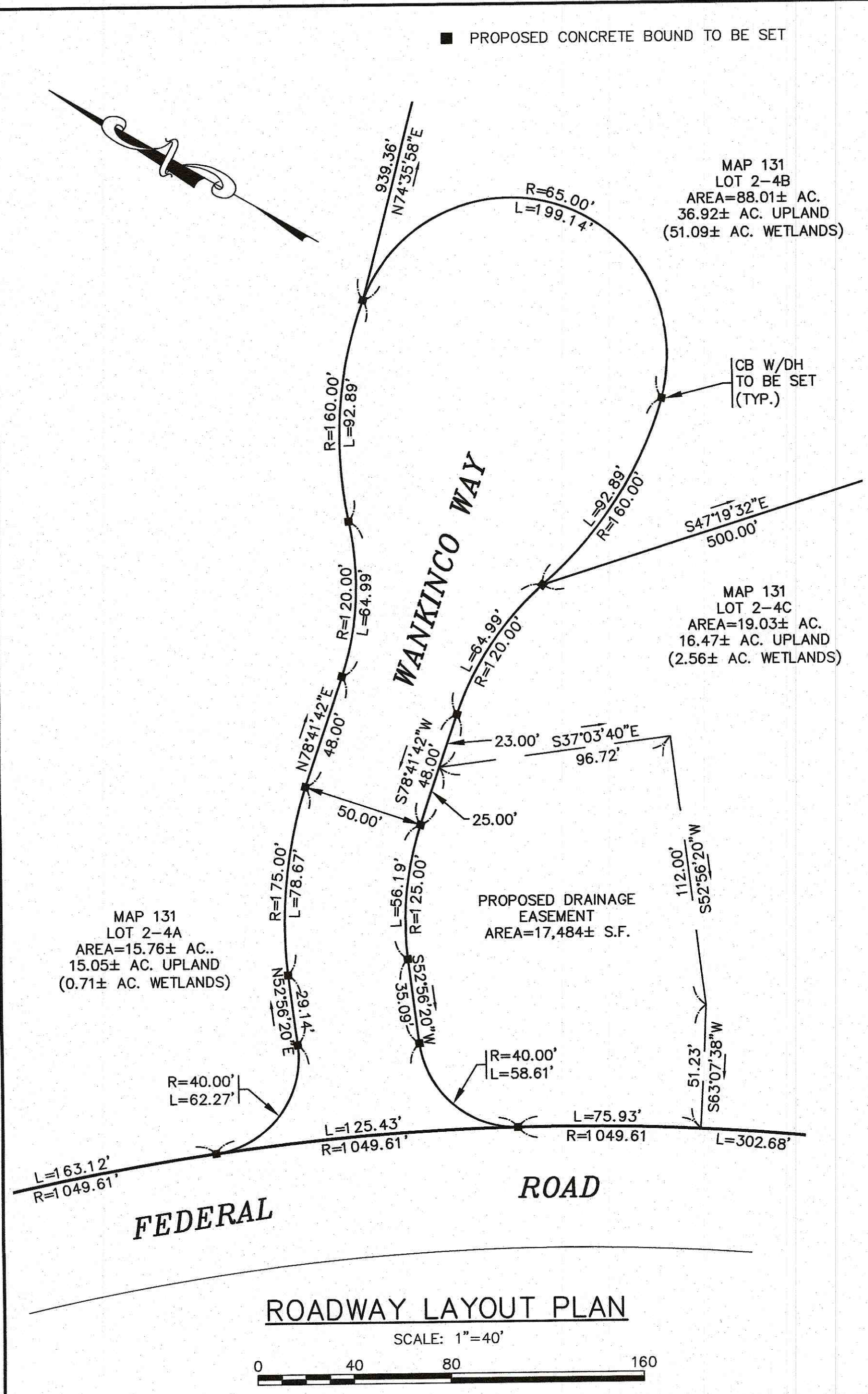
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TOWN CLERK

DATE SIGNED



NOTE:  
LOTS SHOWN HEREON WILL BE SERVICED BY PRIVATE WELLS & ON SITE SEWAGE DISPOSAL SYSTEMS.



DATE	NOV. 2, 2022	DRAWN BY	JH	CHECKED BY	RAB	JOB NO.	22-9873	SCALE	1" = 300'	REV.	DATE	BY	APP'D	DESCRIPTION
APPROVED BY:														
APPROVED BY:														
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com														
"WANKINCO" DEFINITIVE SUBDIVISION PLAN LOTING SHEET-1 FEDERAL ROAD A.D. MAKEPEACE COMPANY WAREHAM, MA														
JOB NO.: 22-9873 DWG. 6 OF 12														



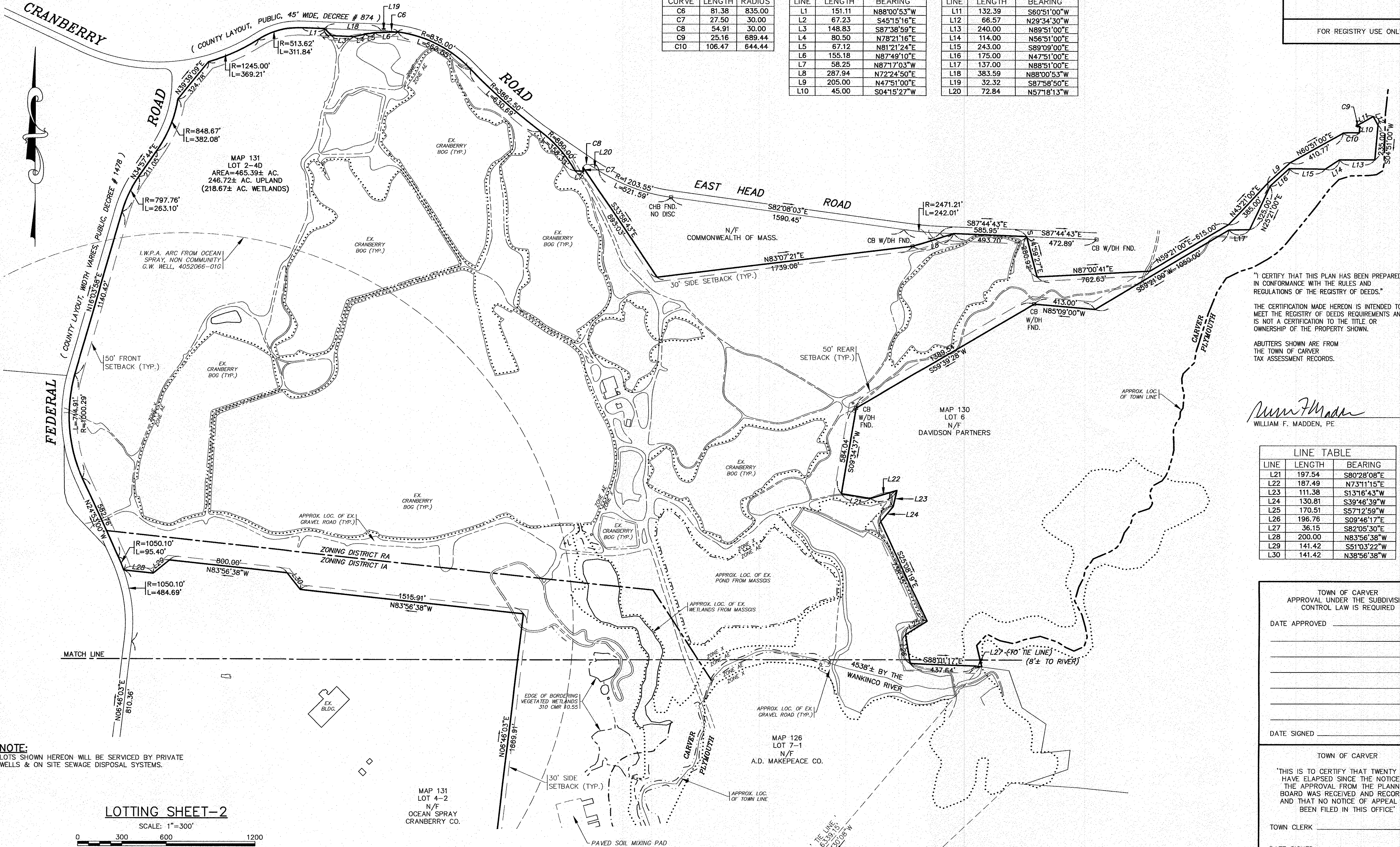
PLAN REFERENCES:

1. REFER TO A PLAN PREPARED BY G.A.F. ENGINEERING, INC. ENTITLED "DIVISION OF LAND FOR A.D. MAKEPEACE CO. IN CARVER, MA" DATED SEPTEMBER 27, 1984, SCALE: 1"=100', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 25, PAGE 44.
2. REFER TO A PLAN PREPARED BY G.A.F. ENGINEERING, INC. ENTITLED "DIVISION OF LAND FOR A.D. MAKEPEACE CO. IN CARVER, MA" DATED OCTOBER 22, 1984, SCALE: 1"=50', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 25, PAGE 45.
3. REFER TO A PLAN PREPARED BY G.A.F. ENGINEERING, INC. ENTITLED "DIVISION OF LAND FOR A.D. MAKEPEACE CO. IN CARVER, MA" DATED JANUARY 24, 1985, SCALE: 1"=200', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 26, PAGE 33.

CURVE TABLE		
CURVE	LENGTH	RADIUS
C6	81.38	835.00
C7	27.50	30.00
C8	54.91	30.00
C9	25.16	689.44
C10	106.47	644.44

LINE TABLE		
LINE	LENGTH	BEARING
L1	151.11	N88°00'53"W
L2	67.23	S45°15'16"E
L3	148.83	S87°38'59"E
L4	80.50	N78°21'16"E
L5	67.12	N81°21'24"E
L6	155.18	N87°49'10"E
L7	58.25	N87°17'03"W
L8	287.94	N72°24'50"E
L9	205.00	N47°51'00"E
L10	45.00	S04°15'27"W

LINE TABLE		
LINE	LENGTH	BEARING
L11	132.39	S60°51'00"W
L12	66.57	N29°34'30"W
L13	240.00	N89°51'00"E
L14	114.00	N56°51'00"E
L15	243.00	S89°09'00"E
L16	175.00	N47°51'00"E
L17	137.00	N88°51'00"E
L18	383.59	N88°00'53"W
L19	32.32	S87°58'50"E
L20	72.84	N57°18'13"W



LINE TABLE		
LINE	LENGTH	BEARING
L21	197.54	S80°28'08"E
L22	187.49	N73°11'15"E
L23	111.38	S13°16'43"W
L24	130.81	S39°46'39"W
L25	170.51	S57°12'59"W
L26	196.76	S09°46'17"E
L27	36.15	S82°05'30"E
L28	200.00	N83°56'38"W
L29	141.42	S51°03'22"W
L30	141.42	N38°56'38"W

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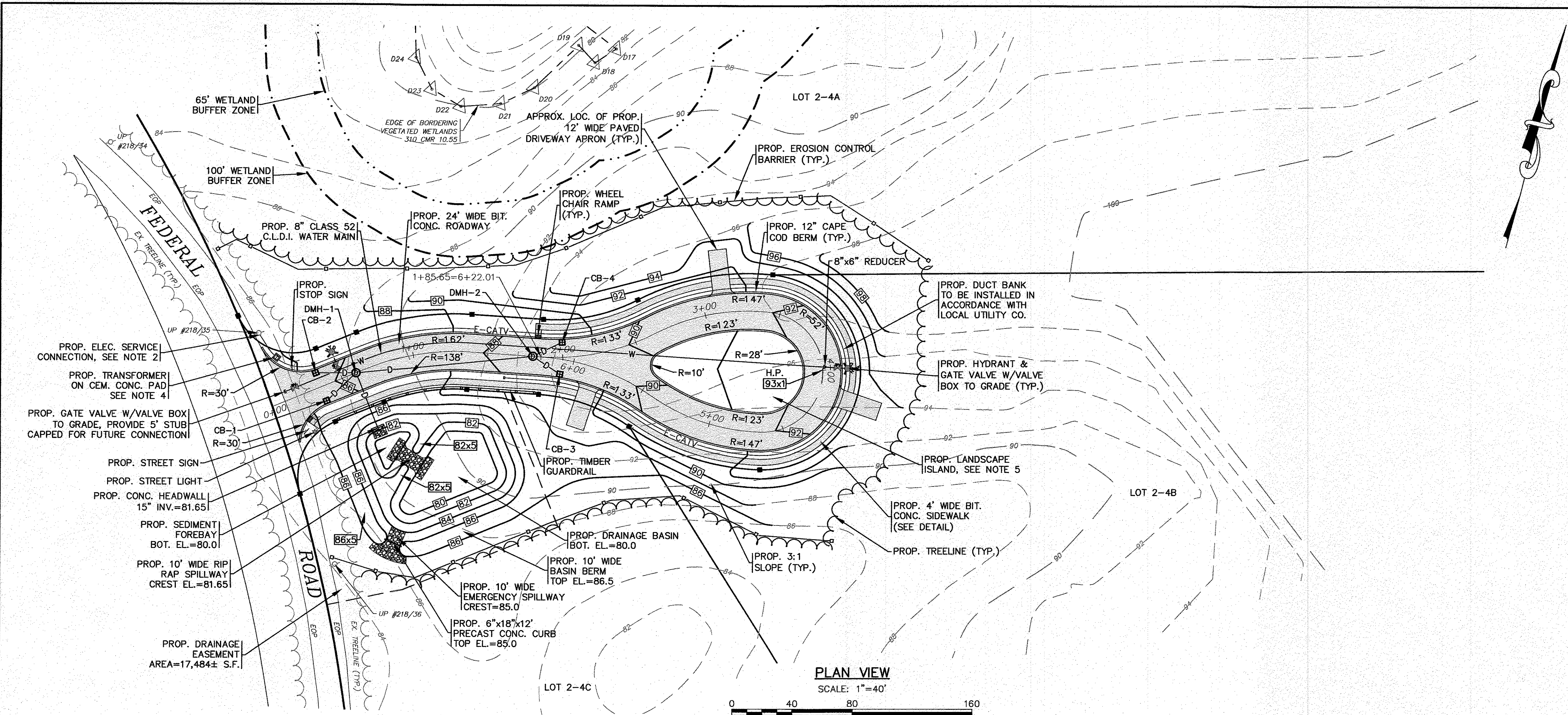
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*William F. Madden*  
WILLIAM F. MADDEN, PE

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G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafeng.com	
"WANKINCO" DEFINITIVE SUBDIVISION PLAN LOTING SHEET-2	
PREPARED FOR: A.D. MAKEPEACE COMPANY	158 THONET ROAD WAREHAM, MA
JOB NO.: 22-9873	DWG. 7 OF 12

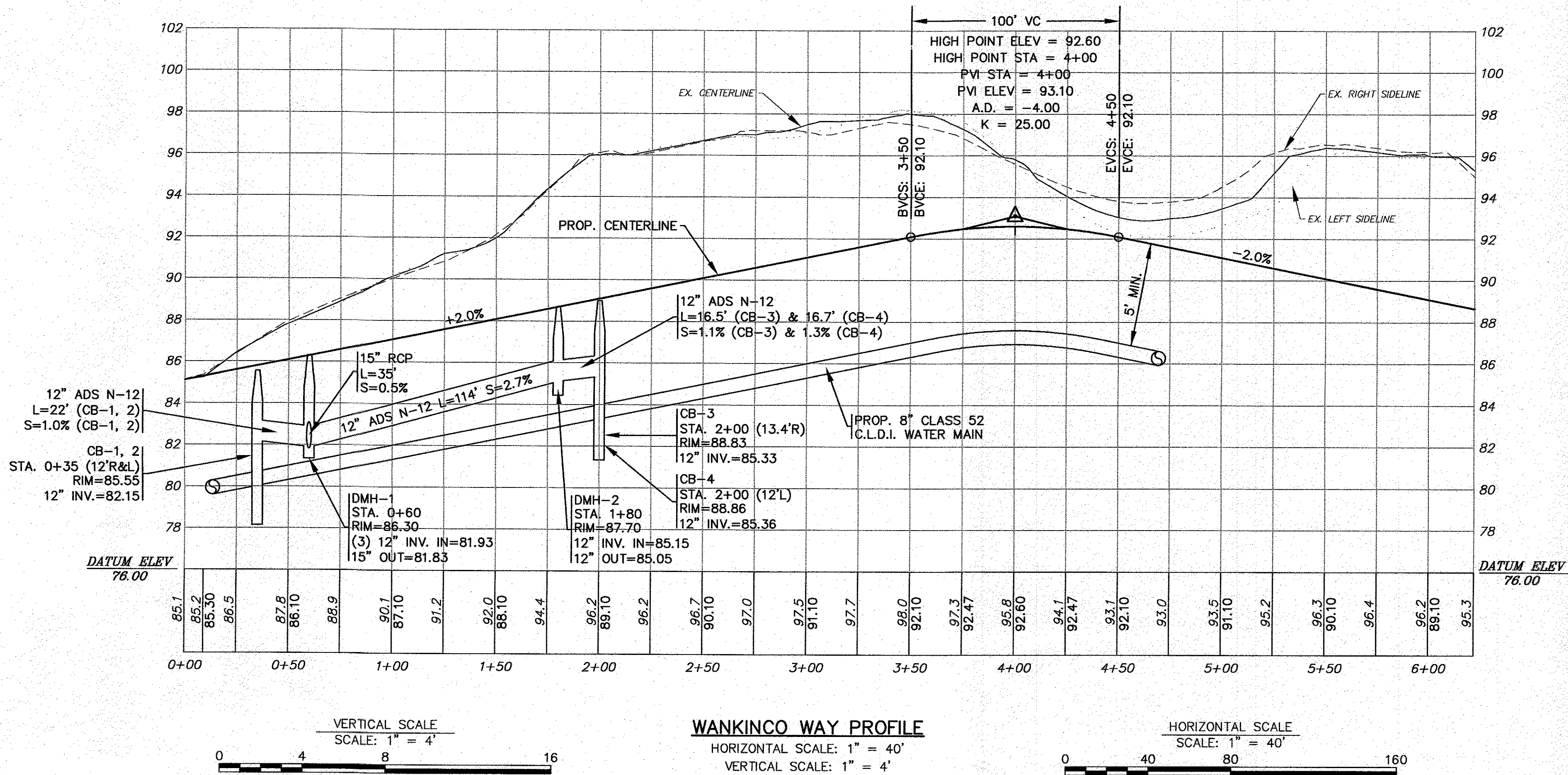




- NOTES:**
- ALL PROPOSED CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK OR AN APPROVED EQUAL INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL EMPTY WHEN NEEDED AND REMOVE & DISPOSE OF THE SILT SACKS AT THE COMPLETION OF CONSTRUCTION.
  - CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR CONNECTION POINT OF THE PROPOSED UNDERGROUND ELECTRIC SERVICE PRIOR TO CONSTRUCTION.
  - FINAL LOCATIONS, DEPTHS AND CONSTRUCTION OF UNDERGROUND UTILITY SERVICES SHALL BE DETERMINED BY THEIR RESPECTIVE UTILITIES COMPANY.
  - CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL LOCATION, SIZE AND CONFIGURATION OF TRANSFORMERS. PROTECT TRANSFORMERS WITH BOLLARDS.
  - REFER TO THE LANDSCAPING PLAN FOR STREET TREE LOCATIONS AND COMPLETE LANDSCAPE LAYOUT.
  - STREET LIGHTS SHALL BE INSTALLED PER THE TOWN OF CARVER SUBDIVISION RULES AND REGULATIONS.
  - A BENCHMARK WILL BE SET PRIOR TO THE START OF CONSTRUCTION.
  - LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION.
  - ELEVATIONS SHOWN ARE BASED ON THE DATUM OF NAVD-88. A PERMANENT SITE BENCHMARK WILL BE SET PRIOR TO CONSTRUCTION.

"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE



FOR REGISTRY USE ONLY

TOWN OF CARVER  
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DATE SIGNED \_\_\_\_\_

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PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafeng.com

**"WANKINCO" DEFINITIVE SUBDIVISION PLAN ROADWAY PLAN & PROFILE**

PREPARED FOR:  
**A.D. MAKEPEACE COMPANY**  
158 THORNTON ROAD  
WAREHAM, MA

JOB NO.: 22-9873  
DWG. 8 OF 12



Diagram illustrating the correct method for planting a shrub, showing the root ball, soil layers, and backfill mixture.

Labels and instructions:

- PRUNE AS NEEDED
- EXPOSE ROOT FLARE
- KEEP MULCH 3" FROM BASE OF TRUNK
- 12" TO 3" LAYER OF MULCH AS SPECIFIED
- 3" EARTH SAUCER
- WATER & TAMP TO REMOVE AIR POCKETS
- UNDISTURBED SOIL
- BACKFILL MIXTURE:
  - 2 PARTS NATIVE SOIL
  - 1 PART TOPSOIL
  - 1 PART PEAT MOSS
- EXCAVATED HOLE WILL BE A MINIMUM 3X'S THE ROOT BALL DIAMETER
- ROPES AT TOP OF BALL SHALL BE CUT. REMOVE TOP 1/2 OF BURLAP. NON-BIODEGRADABLE MATERIAL SHALL BE TOTALLY REMOVED. ROOT BALL TO BE SCARIFIED & ROOTS LOOSENED FROM SOIL

**SHRUB PLANTING**  
N.T.S.

\\CAF\DRAWINGS\2022 DRAWINGS\22-9873 (A.D. MAKEPEACE)\9873\dwg\9873\_DEFINITIVE SUBMISSION\_ALT-1.dwg

1. THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL PLANT MATERIALS LISTED ON THE PLANT SCHEDULE. BARE-ROOT IS TYPICALLY NOT PERMITTED FOR ANY TREE.
2. PLANT MATERIALS SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERY AND LANDSCAPE ASSOCIATION. PLANTS SHALL BE NURSERY GROWN.
3. PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE.
  - A) CALIPER MEASUREMENTS SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR (4) INCHES IN DIAMETER AND TWELVE (12) INCHES ABOVE GRADE FOR TREES FOUR (4) INCHES IN DIAMETER AND LARGER.
  - B) MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX (6) FEET.
  - C) MINIMUM SIZE FOR SHADE TREES SHALL BE THREE (3) INCHES IN DIAMETER AND TWELVE (12) FEET IN HEIGHT.
  - D) MINIMUM SIZE FOR SHRUBS SHALL BE THREE (3) FEET IN HEIGHT.
4. AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A LAYER BETWEEN TWO (2) AND THREE (3) INCHES DEEP OF HEMLOCK / SPRUCE MULCH OVER THE ENTIRE AREA OF THE BED OR SAUCER.
5. A TWO (2) YEAR GUARANTEE SHALL BE PROVIDED ON ALL NEW PLANT MATERIAL. IF ANY TREE OR SHRUB DIES WITHIN THIS PERIOD OF TIME, IT SHALL BE REPLACED.
6. ALL AREAS THAT ARE NOT LANDSCAPED SHALL BE LOAMED AND SEEDED UNLESS OTHERWISE NOTED ON THE PLANS.
7. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP AND REMOVAL OF ANY DEBRIS FROM THE SITE CAUSED BY THE INSTALLATION OF THIS WORK.
8. TREES AND SHRUBS SHALL BE PLANTED FROM APRIL 15TH TO JUNE 15TH OR SEPTEMBER 1ST TO NOVEMBER 1ST. SEEDING SHALL OCCUR DURING THE SAME TIME PERIOD, UNLESS OTHERWISE NOTED.
9. EXISTING TREES & VEGETATION SHALL REMAIN TO THE GREATEST EXTENT POSSIBLE.



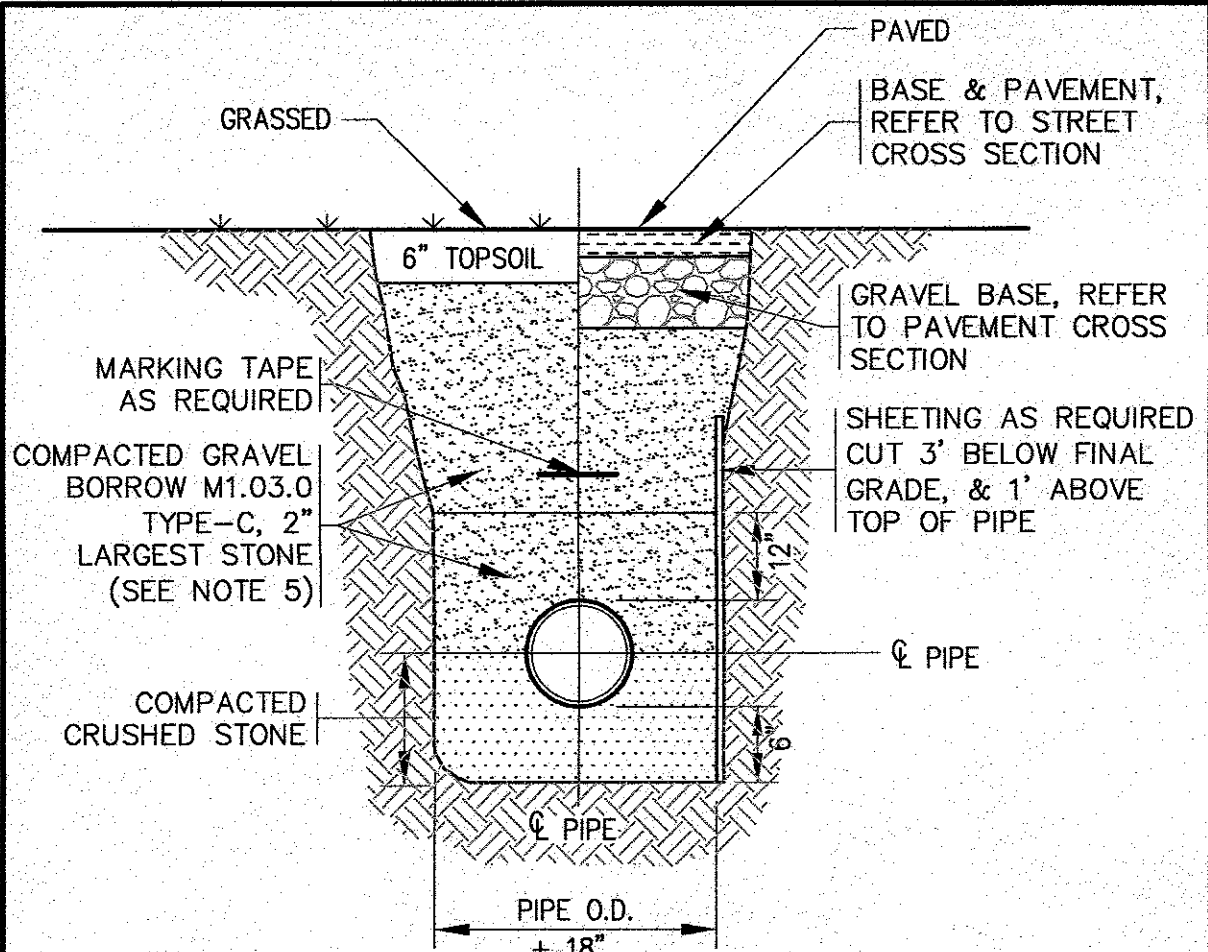
1. LANDSCAPE DESIGN BY E.A. FULLER, LANDSCAPE ARCHITECT, 24 SCOTT DRIVE, PLYMOUTH, MA, 02360.
2. TREES AND SHRUBS SHALL BE PLANTED FROM APRIL 15TH TO JUNE 15TH OR SEPTEMBER 1ST TO NOVEMBER 1ST. SEEDING SHALL OCCUR DURING THE SAME TIME PERIOD, UNLESS OTHERWISE NOTED.

<p>FOR REGISTRY USE ONLY</p>		<p>DATE: NOV. 2, 2022</p>		<p>DATE</p>		<p>NOV. 2, 2022</p>	
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<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>	
<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>	
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<p>DWG. 9 OF 12</p>		<p>DWG. 9 OF 12</p>		<p>DWG. 9 OF 12</p>		<p>DWG. 9 OF 12</p>	
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<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>	
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<p>DRAWN BY: JMP</p>		<p>DRAWN BY: JMP</p>		<p>DRAWN BY: JMP</p>		<p>DRAWN BY: JMP</p>	
<p>CHECKED BY: EAF</p>		<p>CHECKED BY: EAF</p>		<p>CHECKED BY: EAF</p>		<p>CHECKED BY: EAF</p>	
<p>JOB NO.: 22-9873</p>		<p>JOB NO.: 22-9873</p>		<p>JOB NO.: 22-9873</p>		<p>JOB NO.: 22-9873</p>	
<p>SCALE: 1" = 40'</p>		<p>SCALE: 1" = 40'</p>		<p>SCALE: 1" = 40'</p>		<p>SCALE: 1" = 40'</p>	
<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>	
<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>		<p>APPROVED BY:</p>	
<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>		<p>TOWN OF CARVER</p>	
<p>APPROVAL UNDER THE SUBDIVISION CONTROL</p>							





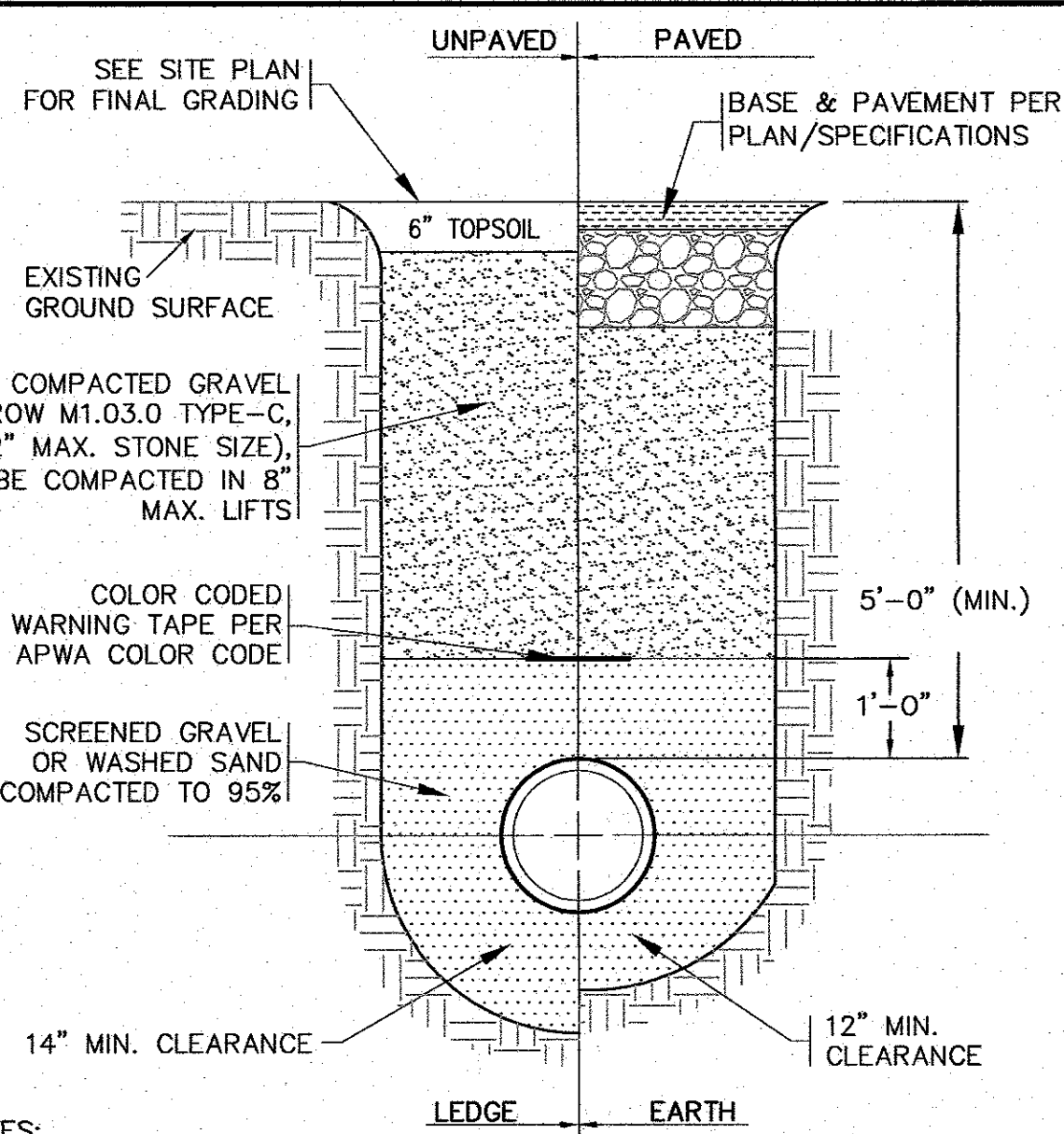




NOTES:

- PIPE BEDDING SHALL BE COMPACTED BEFORE PIPE INSTALLATION.
- COMPACTION AROUND PIPE SHALL BE BY TAMPER AT 6" MAX. LIFTS. ALL OTHER BACKFILL AREAS SHALL BE COMPACTED IN 8" MAX. LIFTS.
- MIN. COVER OVER PIPE = 1'-6"
- MIN. COVER OVER WATER SERVICES/MAINS = 5'-0"
- FOR ALL WORK IN FEDERAL ROAD USE FLOWABLE FILL AS REQUIRED BY THE TOWN OF CARVER OPERATIONS AND MAINTENANCE DEPARTMENT.

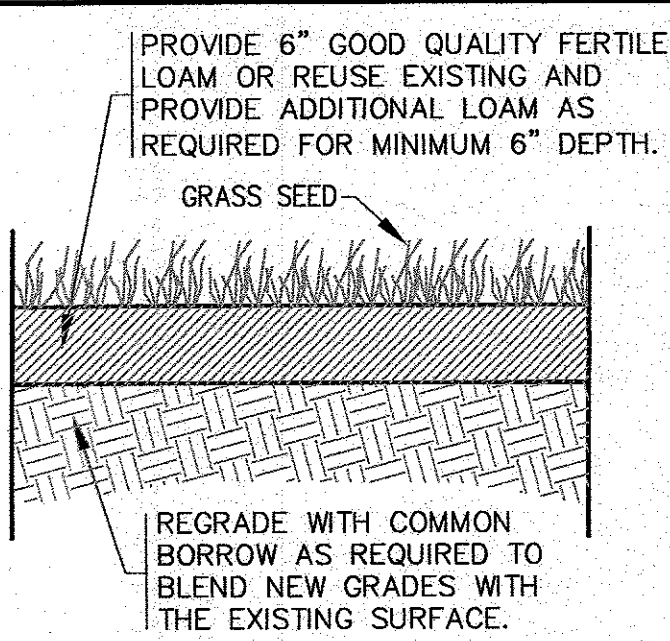
TYPICAL PIPE TRENCH  
N.T.S.



NOTES:

- PIPE BEDDING SHALL BE COMPACTED BEFORE PIPE INSTALLATION.
- COMPACTION AROUND PIPE SHALL BE BY TAMPER AT 6" MAX. LIFTS.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF CARVER FIRE DEPARTMENTS RULES AND REGULATIONS.

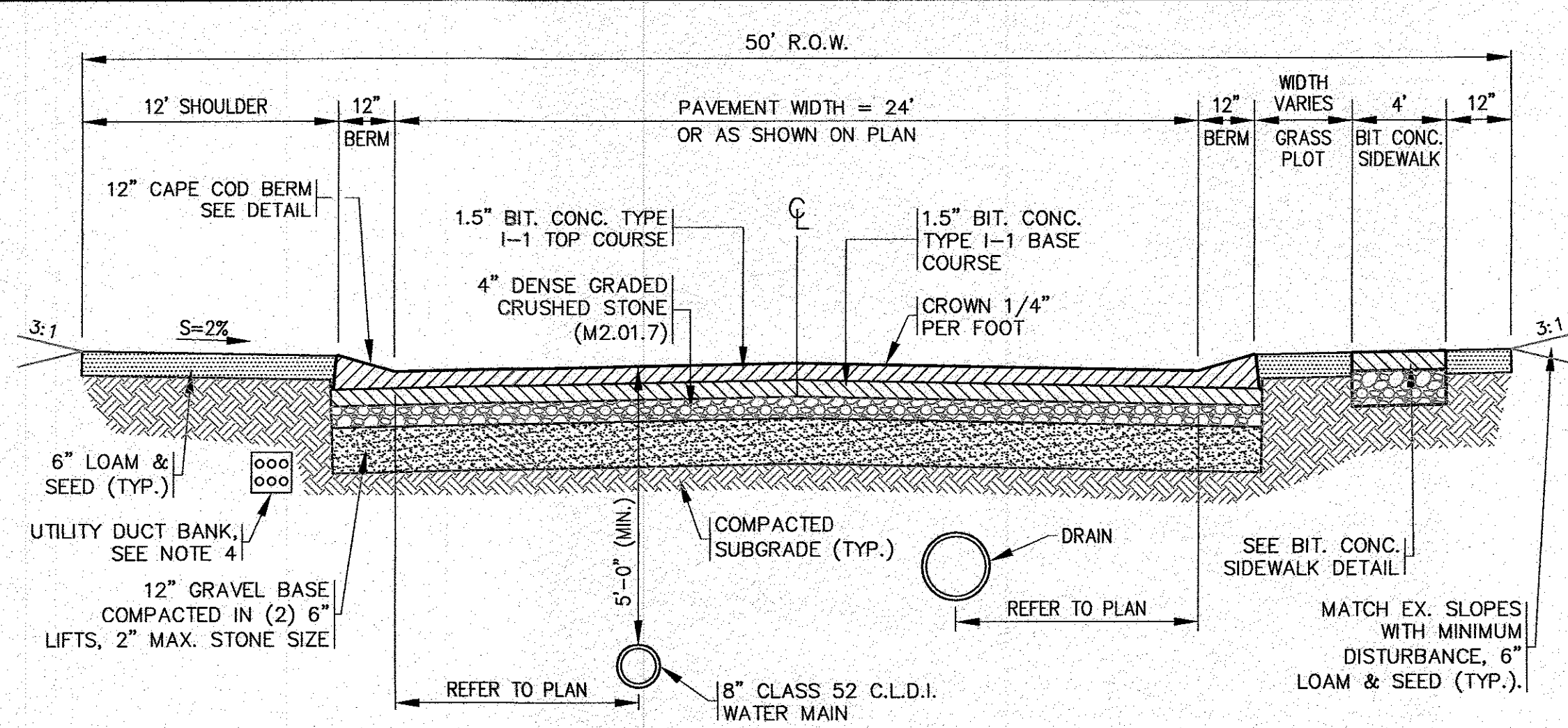
WATER PIPE TRENCH  
N.T.S.



NOTES:

- MATERIALS AND CONSTRUCTION METHODS FOR LOAM BORROW AND TOPSOIL SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 751 OF THE MassDOT STANDARD SPECIFICATIONS AND WITH THE PROCEDURES DESCRIBED HEREIN.
- MATERIALS AND CONSTRUCTION FOR SEEDING SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 765 OF THE MassDOT STANDARD SPECIFICATIONS.
- SEED FOR GRASS STRIPS SHALL CONFORM TO MassDOT MATERIAL SPEC. M6.03.0, LONG TERM SEED MIXES FOR LAWNS AND SLOPES.
- GRASS SHALL BE MAINTAINED A MINIMUM OF 4" HIGH WITHIN THE DRAINAGE AREAS.
- LOAM AND SEED ALL DISTURBED AREAS.

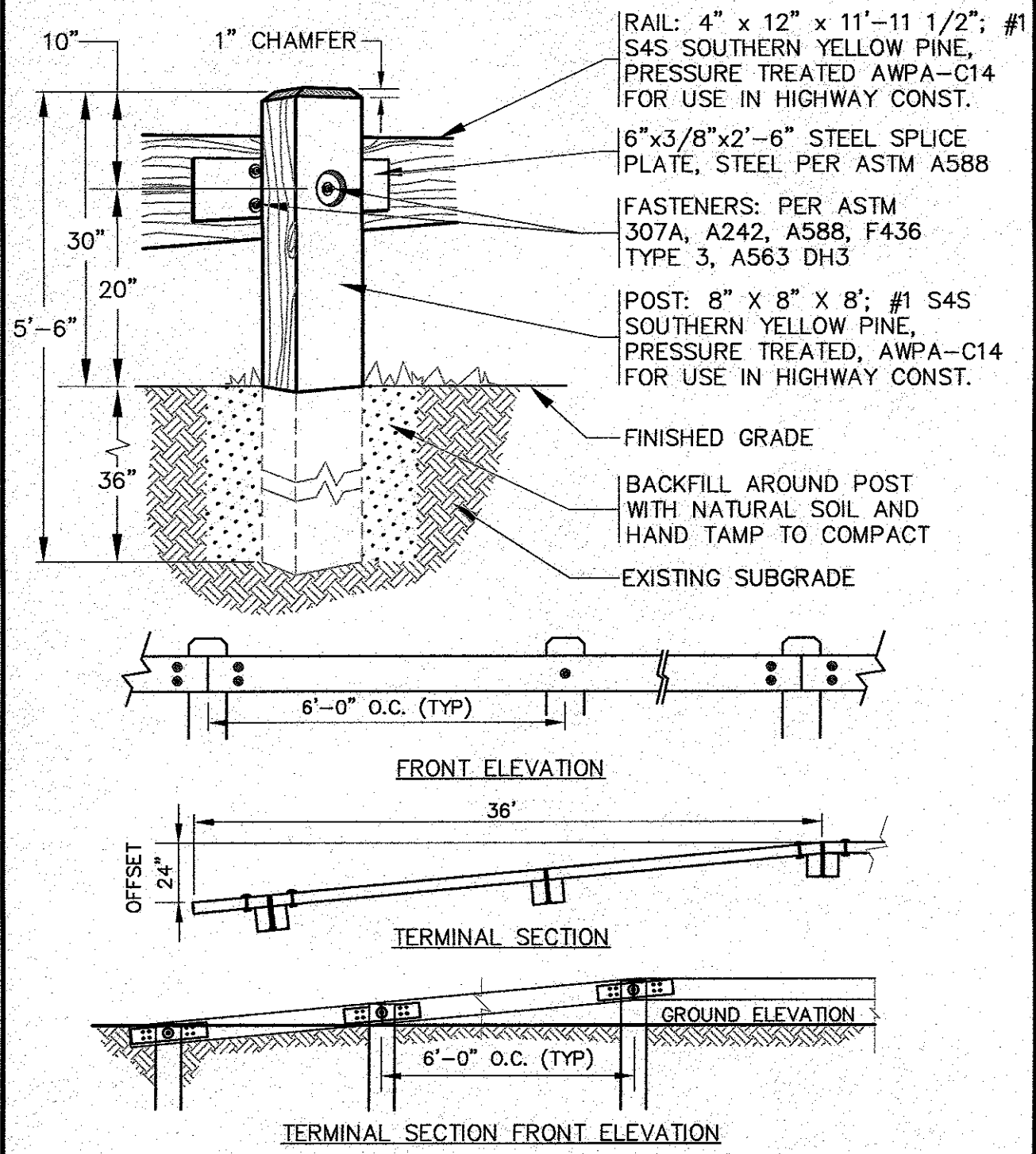
LOAM AND SEED DETAIL  
N.T.S.



NOTES:

- ALL PAVEMENT SHALL BE IN ACCORDANCE WITH MassDOT SECTION 460 & 401, UNLESS OTHERWISE NOTED, AND SHALL MEET TOWN OF CARVER SPECIFICATIONS.
- GRAVEL BASE SHALL CONFORM TO MassDOT MATERIAL SPEC. M1.03.0 TYPE C.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- FINAL LOCATIONS, DEPTHS AND CONSTRUCTION OF UNDERGROUND ELECTRIC SERVICE SHALL BE DETERMINED BY THEIR RESPECTIVE UTILITIES COMPANY.

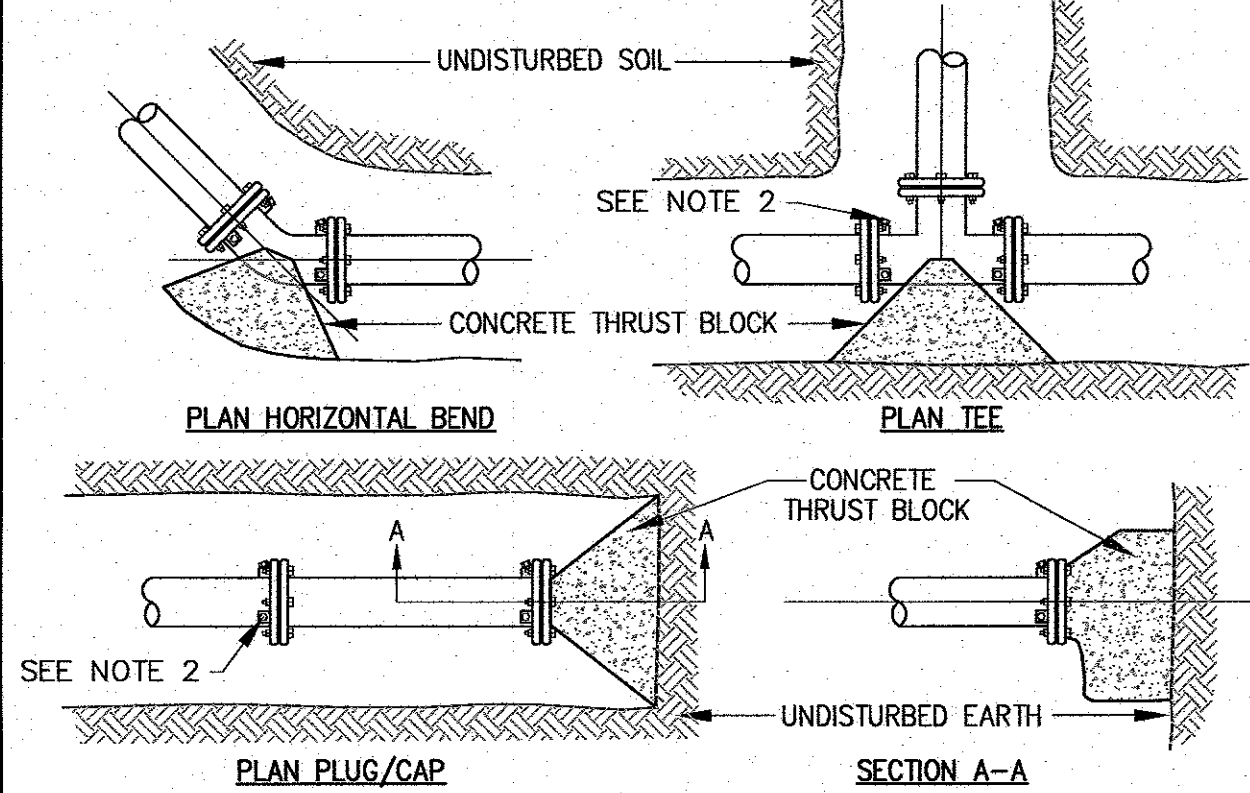
TYPICAL STREET CROSS SECTION  
N.T.S.



NOTES:

- CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL TIMBER GUARD RAIL SPECIFICATIONS AND CONSTRUCTION DETAILS.

TYPICAL TIMBER GUARD RAIL DETAIL  
N.T.S.

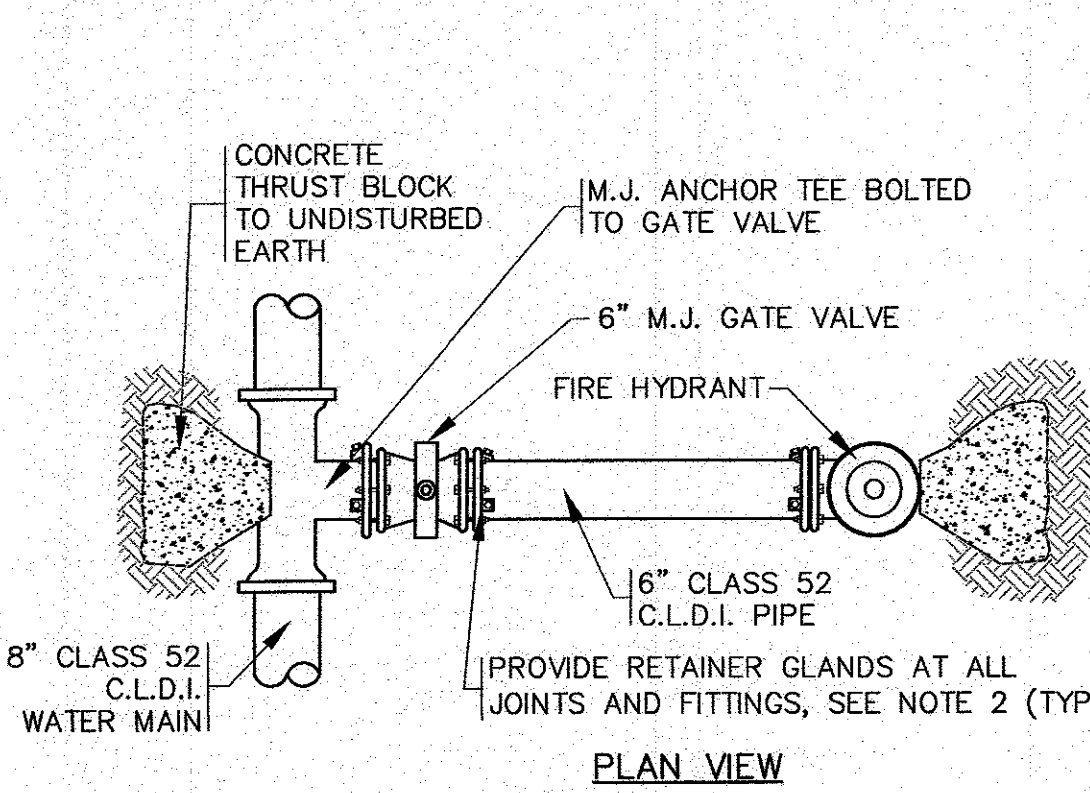


BASED ON: TEST PRESSURE = 200 P.S.I. CONC. STRENGTH = 3000 P.S.I. SOIL BEARING CAP. = 2000 P.S.F.				
PIPE SIZE	90° BEND	45° BEND AND ALL OTHER BENDS	TEES & DEAD ENDS	
4"	2.60 S.F.	1.41 S.F.	1.85 S.F.	
6"	5.40 S.F.	2.90 S.F.	3.80 S.F.	
8"	9.30 S.F.	5.00 S.F.	6.50 S.F.	
10"	13.90 S.F.	7.55 S.F.	10.85 S.F.	
12"	19.70 S.F.	10.80 S.F.	13.90 S.F.	

NOTES:

- ALL PROPOSED WORK, MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL BE APPROVED AND DONE IN ACCORDANCE WITH THE TOWN OF CARVER FIRE DEPARTMENTS RULES AND REGULATIONS.
- RETAINER GLANDS SHALL BE USED AT ALL JOINTS (ANCHOR TEE, GATE VALVES, HYDRANT AND ALL FITTINGS). RETAINER GLANDS SHALL BE OF THE LOCKING GLAND-TYPE, MEGALUG, AS MANUFACTURED BY EBBA IRON.

CONCRETE THRUST BLOCK  
N.T.S.

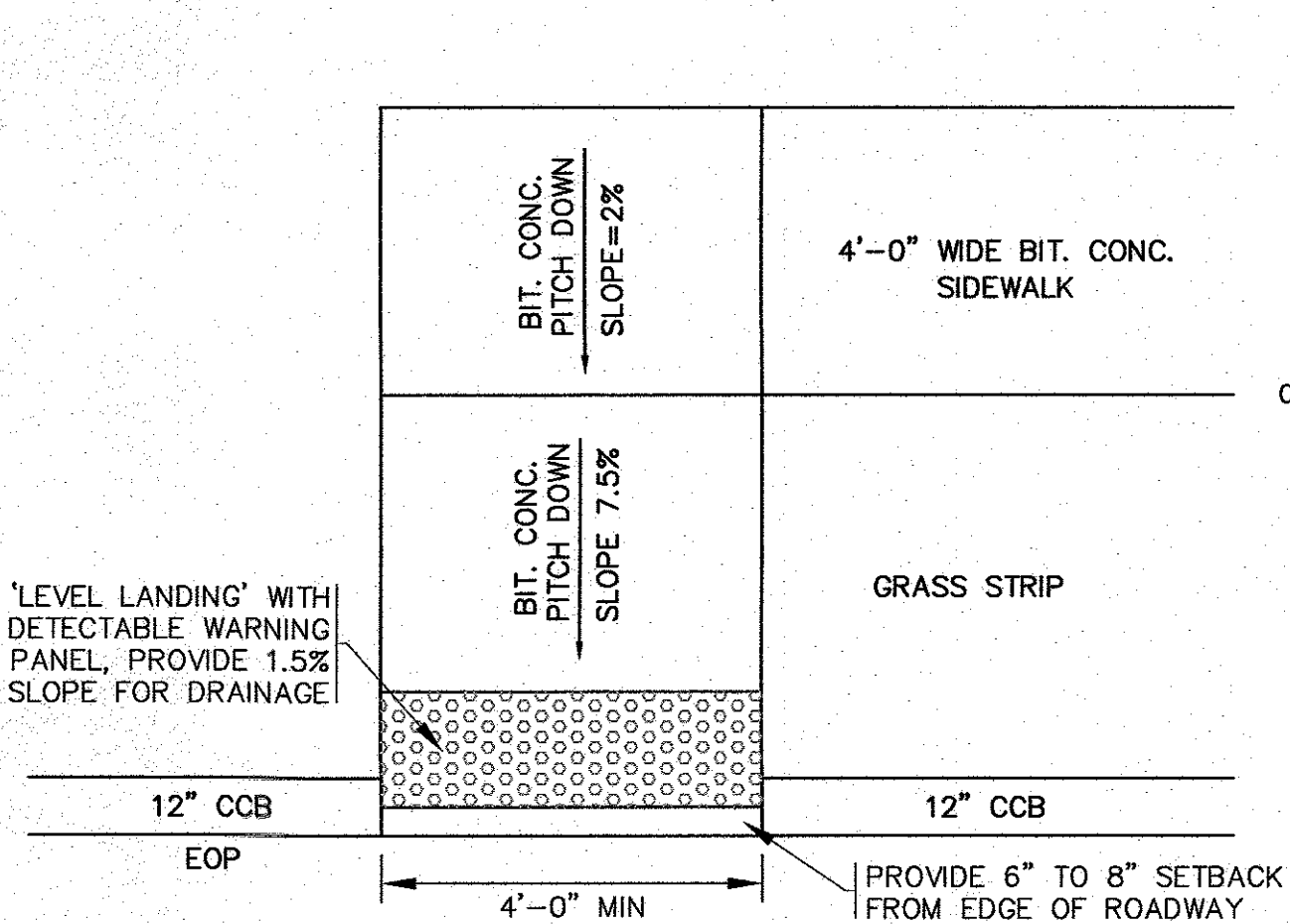


NOTES:

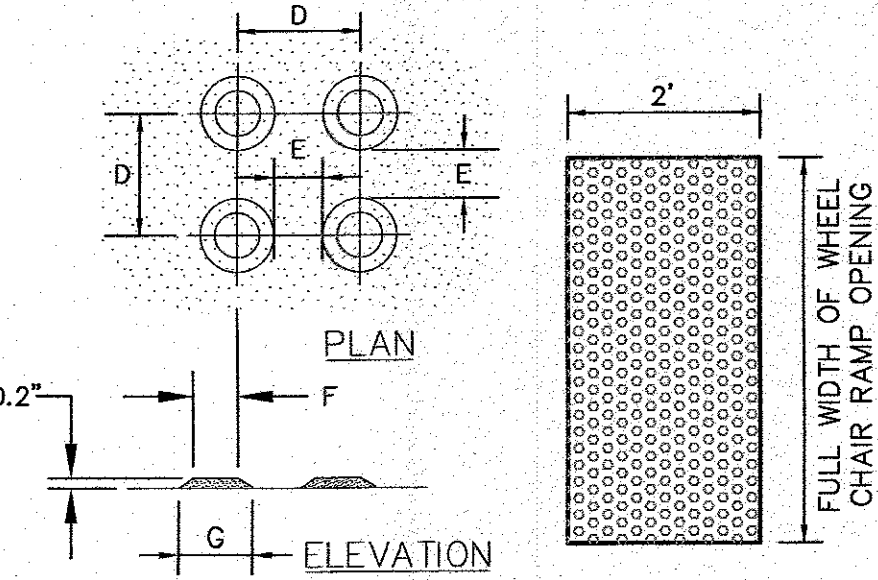
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- RETAINER GLANDS SHALL BE USED AT ALL JOINTS (ANCHOR TEE, GATE VALVES, HYDRANT AND ALL FITTINGS). RETAINER GLANDS SHALL BE OF THE LOCKING GLAND-TYPE, MEGALUG, AS MANUFACTURED BY EBBA IRON.
- POUR 12"x12" CEMENT CONCRETE COLLAR AROUND FRAME TO TOP OF BINDER COURSE OF PAVEMENT.

HYDRANT DETAIL  
N.T.S.

- NOTES:
- ALL SIDEWALK CROSS SLOPES, AS INDICATED IN STANDARD SPECIFICATIONS, WILL BE AT 1.6 % MAX., 1.5% PREFERRED FOR BRICK, CEMENT CONCRETE AND BITUMINOUS CONCRETE (REFER TO STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION 700.) IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2%.
  - AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3.5' SHALL BE MAINTAINED. THE DESIRABLE WIDTH IS 4.0'.
  - THE WHEEL CHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS) MUST NOT EXCEED 7.5% HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
  - THE ENTRANCE OF A WHEEL CHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
  - SURFACE TESTING, WHEN TESTING WITH A STRAIGHTEDGE PLACED PARALLEL TO THE LINE OF SLOPE, THERE SHALL BE NO DEVIATION FROM A TRUE SURFACE IN EXCESS OF 1/4".
  - ALL HANDICAP RAMPS SHALL HAVE DETECTABLE WARNINGS INSTALLED IN ACCORDANCE WITH THE MANUFACTURE, VANGUARD AD SYSTEMS & MASSDOT CONSTRUCTION STANDARD DETAILS.



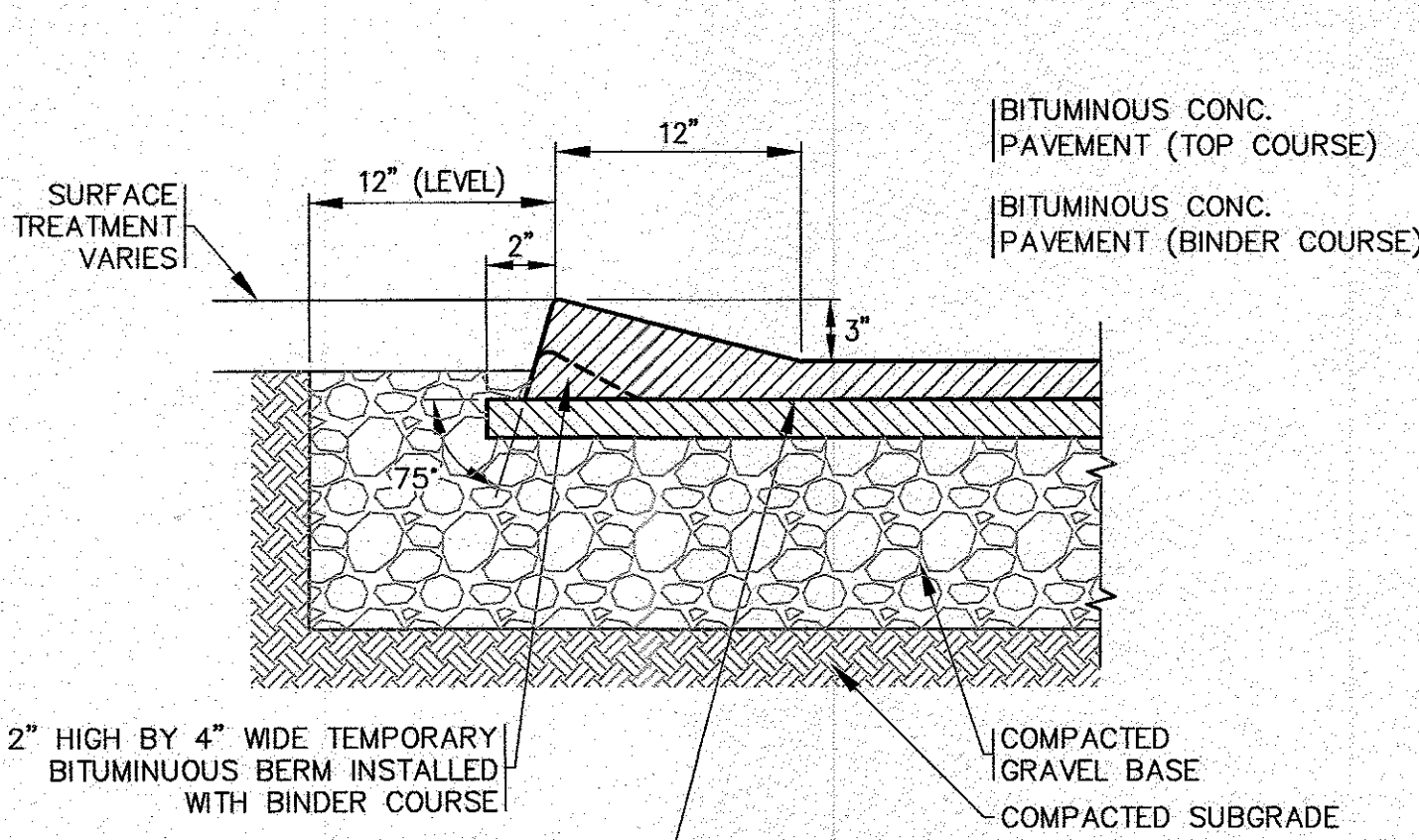
WHEEL CHAIR RAMP  
N.T.S.



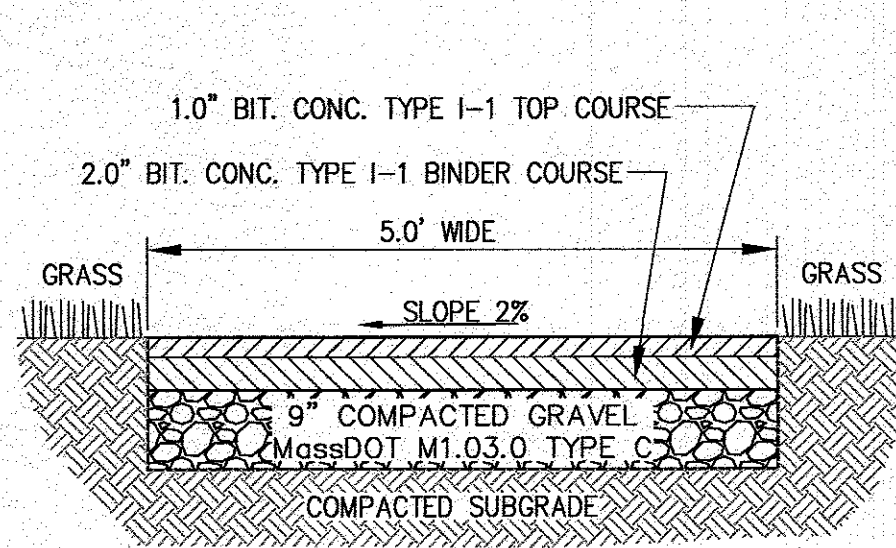
NOTES:

- REFER TO PLAN FOR LOCATIONS.
- ALL WORK SHALL COMPLY TO ADA SPECIFICATIONS AND MASSDOT CONSTRUCTION STANDARD DETAILS.

TRUNCATED DOME  
DETECTABLE WARNING PANEL  
N.T.S.



CAPE COD BERM  
N.T.S.



NOTES:

- SEE PLAN FOR LOCATIONS.
- SIDEWALKS SHALL HAVE A FINISHED GRADE IN RELATION TO THE ROADWAY AS SHOWN THE TYPICAL STREET CROSS SECTION. AT ALL INTERSECTIONS THE SIDEWALKS SHALL BE CONSTRUCTED ACROSS THE GRASS PLOT TO THE EDGE OF THE TRAVELED WAY.

BITUMINOUS CONCRETE SIDEWALK  
N.T.S.

FOR REGISTRY USE ONLY

"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE

DATE: NOV. 2, 2022  
DRAWN BY: JMP  
CHECKED BY: WFM  
JOB NO.: 22-9873  
SCALE: N.T.S.

APPROVED BY:

DATE APPROVED

TOWN OF CARVER  
APPROVAL UNDER THE SUBDIVISION CONTROL LAW IS REQUIRED

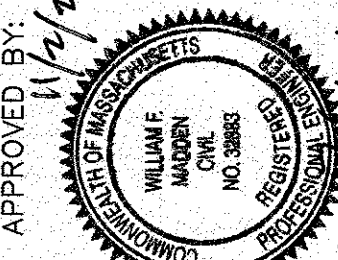
DATE SIGNED

TOWN OF CARVER

"THIS IS TO CERTIFY THAT TWENTY DAYS HAVE ELAPSED SINCE THE NOTICE OF THE APPROVAL FROM THE PLANNING BOARD WAS RECEIVED AND RECORDED, AND THAT NO NOTICE OF APPEAL HAS BEEN FILED IN THIS OFFICE"

TOWN CLERK

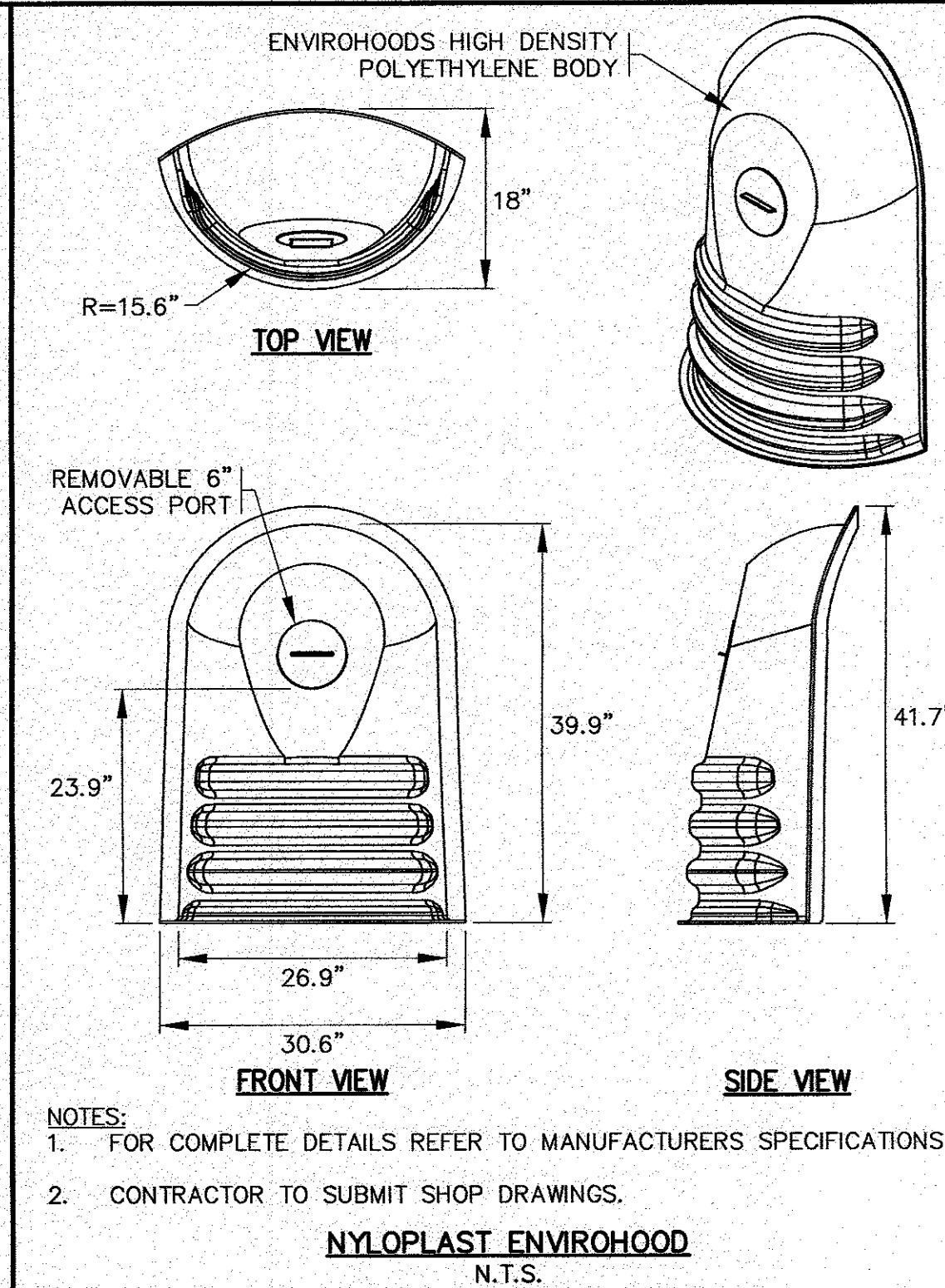
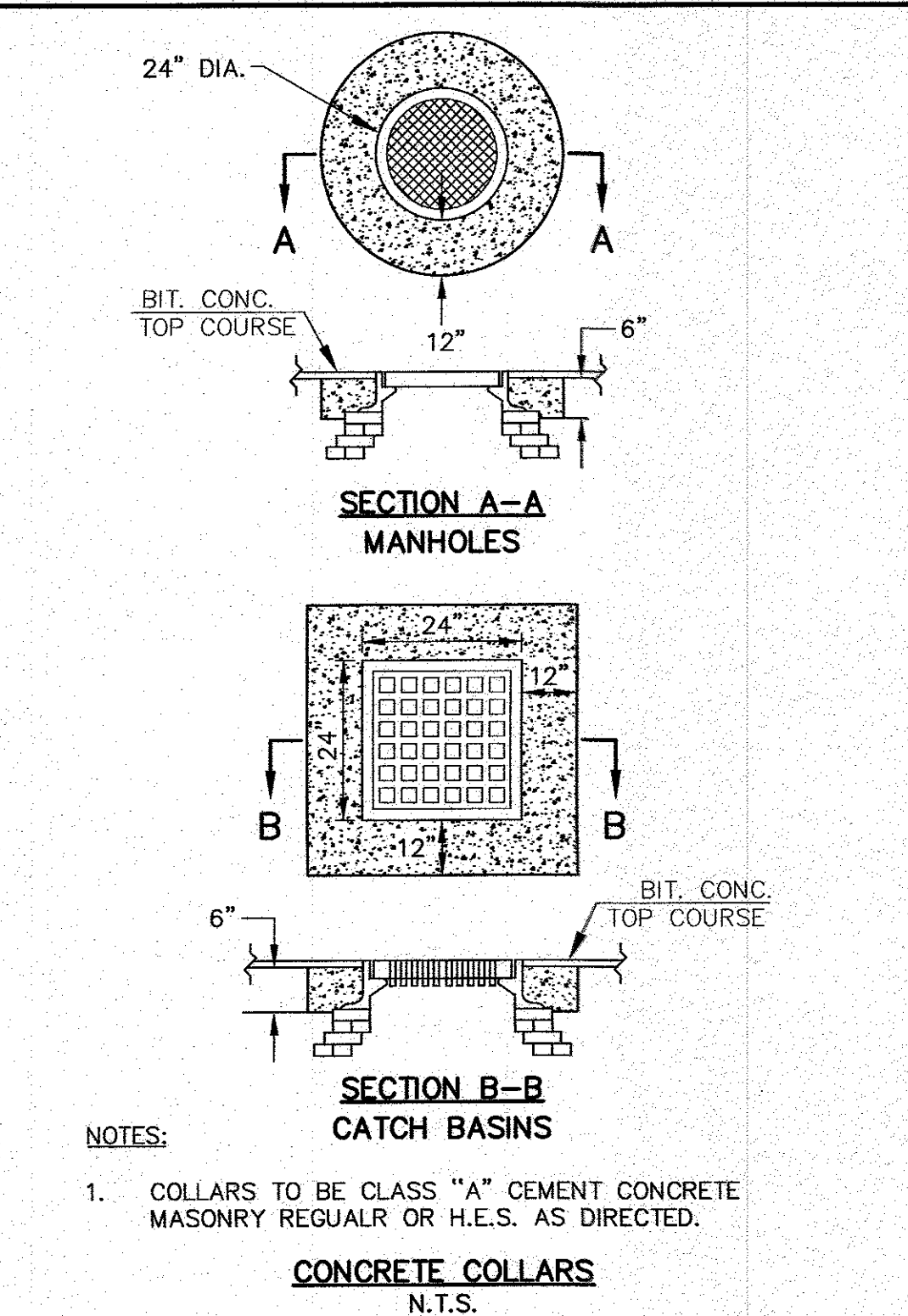
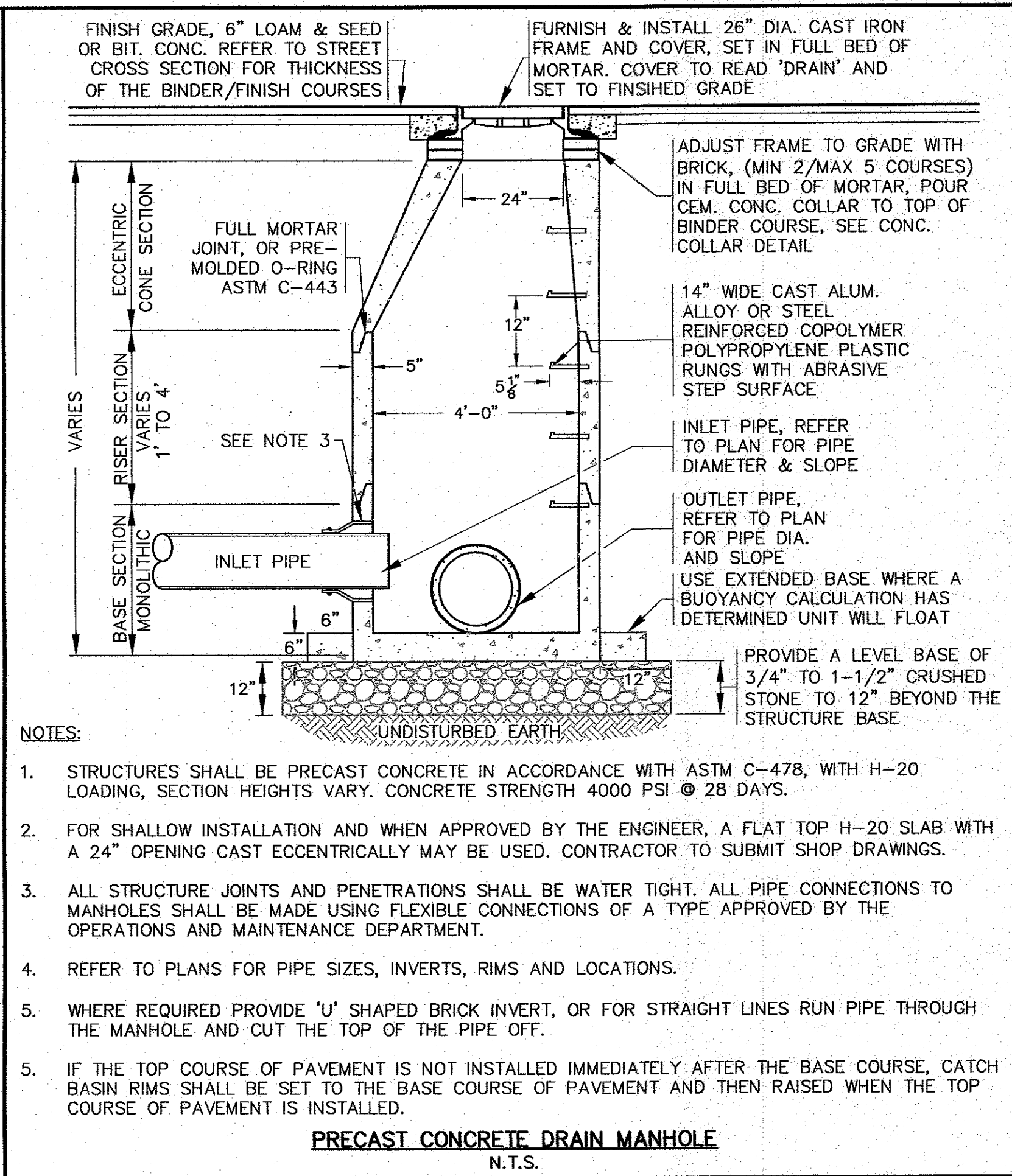
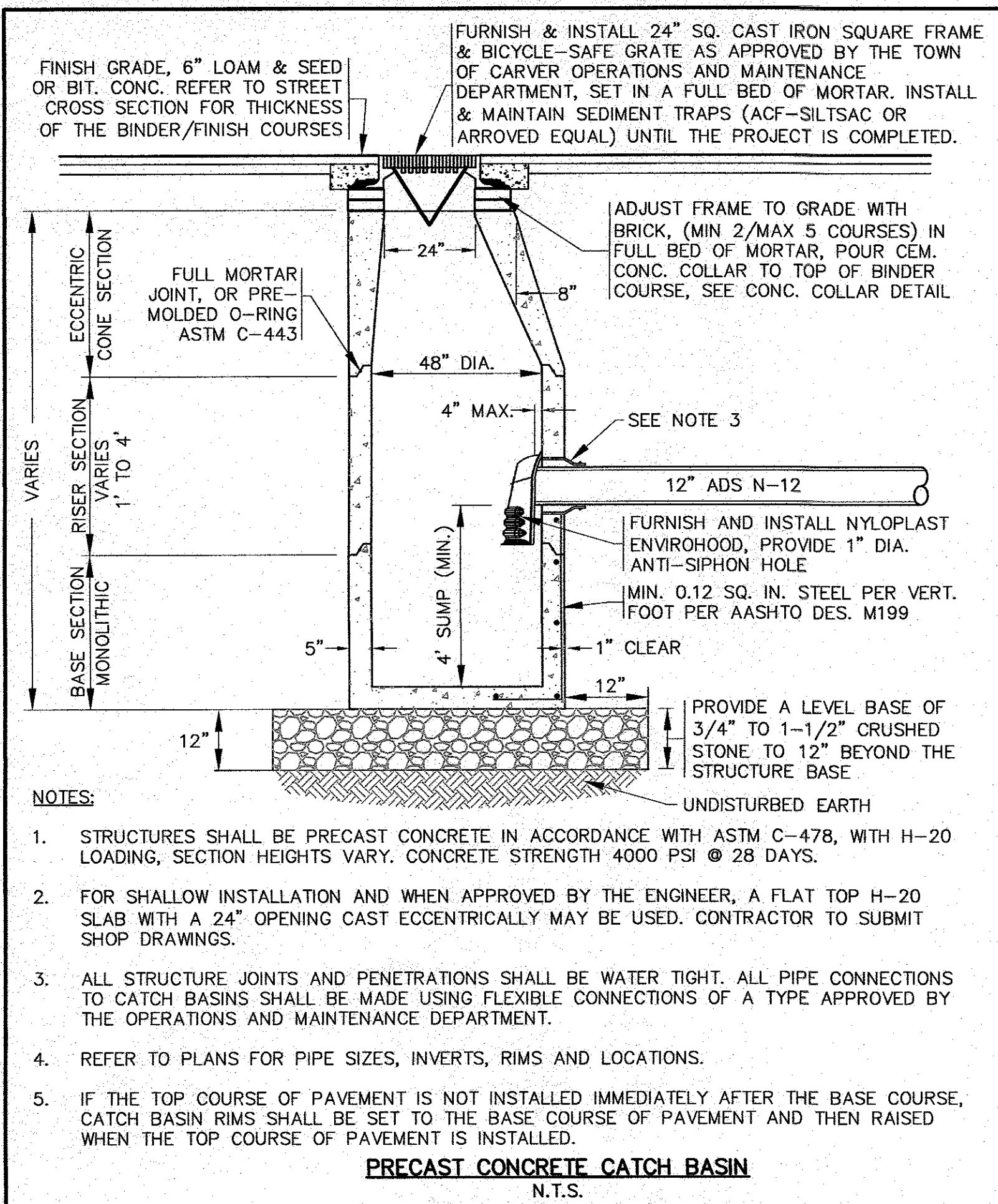
DATE SIGNED



G.A.F. ENGINEERING, INC.  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: gaf@gafe.com  
CONSENT OF G.A.F. ENGINEERING, INC. TO THE TOWN OF CARVER TO REPRODUCE ANY PART OF THIS PLAN FOR THE PURPOSES OF THE SUBDIVISION CONTROL LAW IS HEREBY GRANTED. THE REPRODUCTION OF THIS PLAN SHALL BE LIMITED TO THE TOWN OF CARVER AND SHALL BE FOR THE PURPOSES OF THE SUBDIVISION CONTROL LAW ONLY. ANY REPRODUCTION OF THIS PLAN FOR ANY OTHER PURPOSE SHALL BE AT THE USER'S RISK AND WITHOUT THE LIABILITY OF G.A.F. ENGINEERING, INC.

"WANKINCO"  
DEFINITIVE SUBDIVISION PLAN  
DETAIL SHEET 1  
FEDERAL ROAD CARVER, MA  
PREPARED FOR:  
A.D. MAKEPEACE COMPANY  
138 THONET ROAD WAREHAM, MA  
JOB NO.: 22-9873  
DWG.  
11 OF 12





FOR REGISTRY USE ONLY

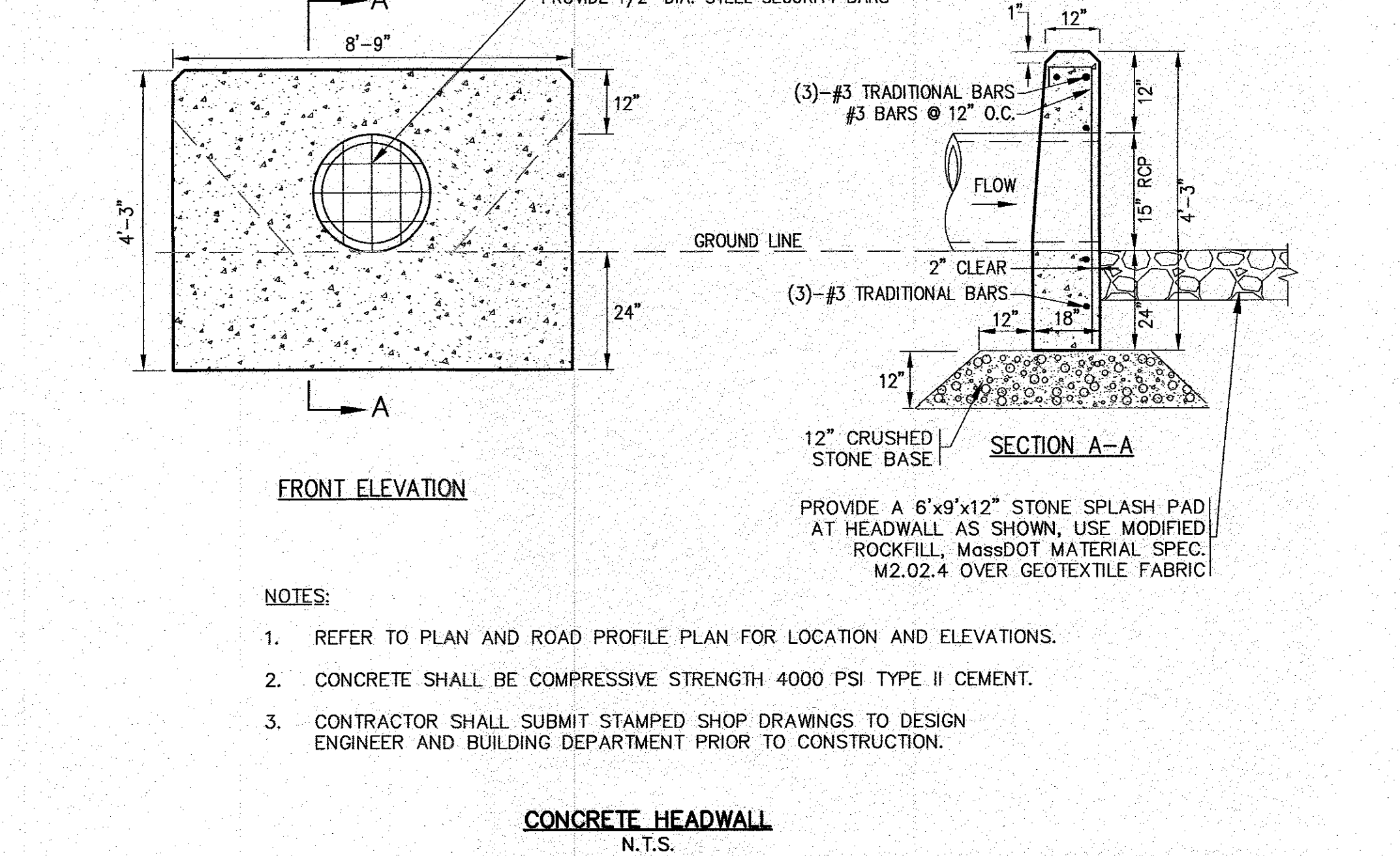
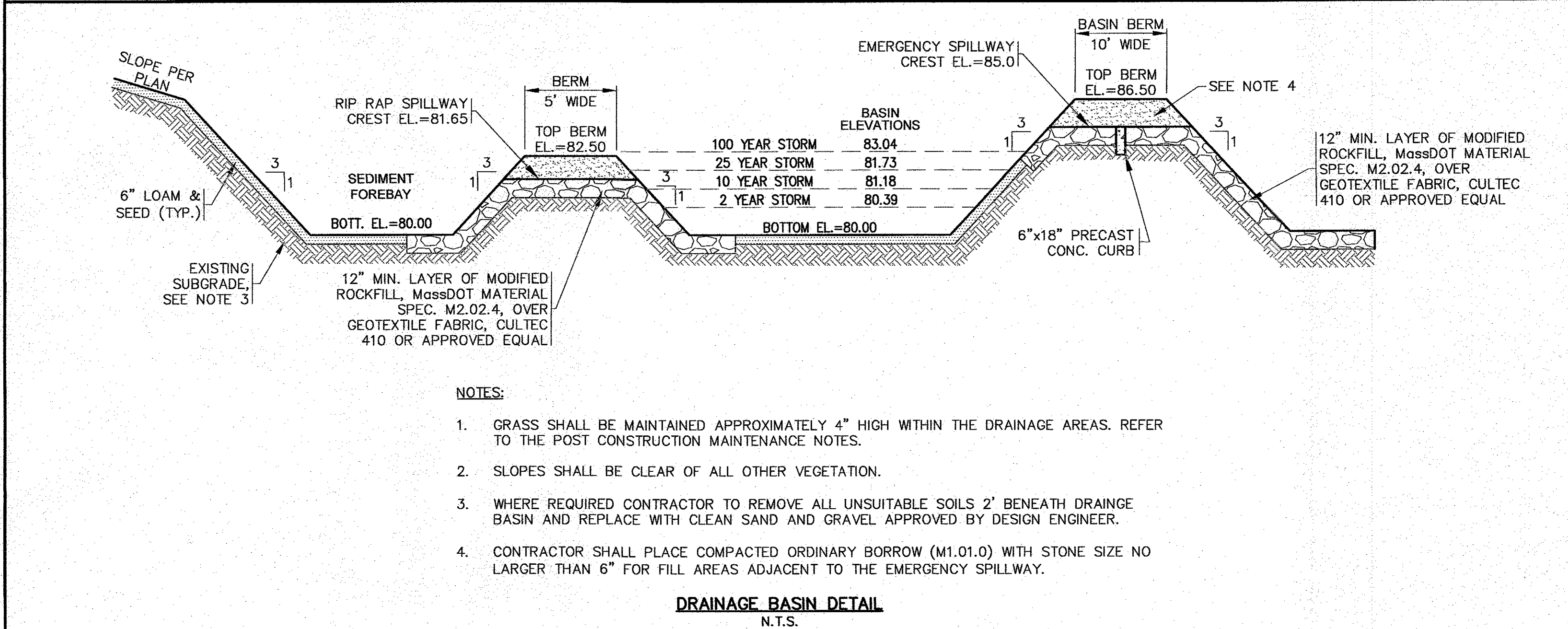
"I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS."

*William F. Madden*  
WILLIAM F. MADDEN, PE

DATE: NOV. 2, 2022  
DRAWN BY: JWP  
CHECKED BY: WFM  
JOB NO.: 22-9873  
SCALE: N.T.S.

APPROVED BY: *William F. Madden*

REV. DATE BY APPD



TOWN OF CARVER  
APPROVAL UNDER THE SUBDIVISION CONTROL LAW IS REQUIRED

DATE APPROVED \_\_\_\_\_

DATE SIGNED \_\_\_\_\_

TOWN OF CARVER

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TOWN CLERK \_\_\_\_\_

DATE SIGNED \_\_\_\_\_

APPROVED BY: *William F. Madden*

**G.A.F. ENGINEERING, INC.**  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
286 MAIN STREET - WARREN, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
E-MAIL: info@gafengrinc.com

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