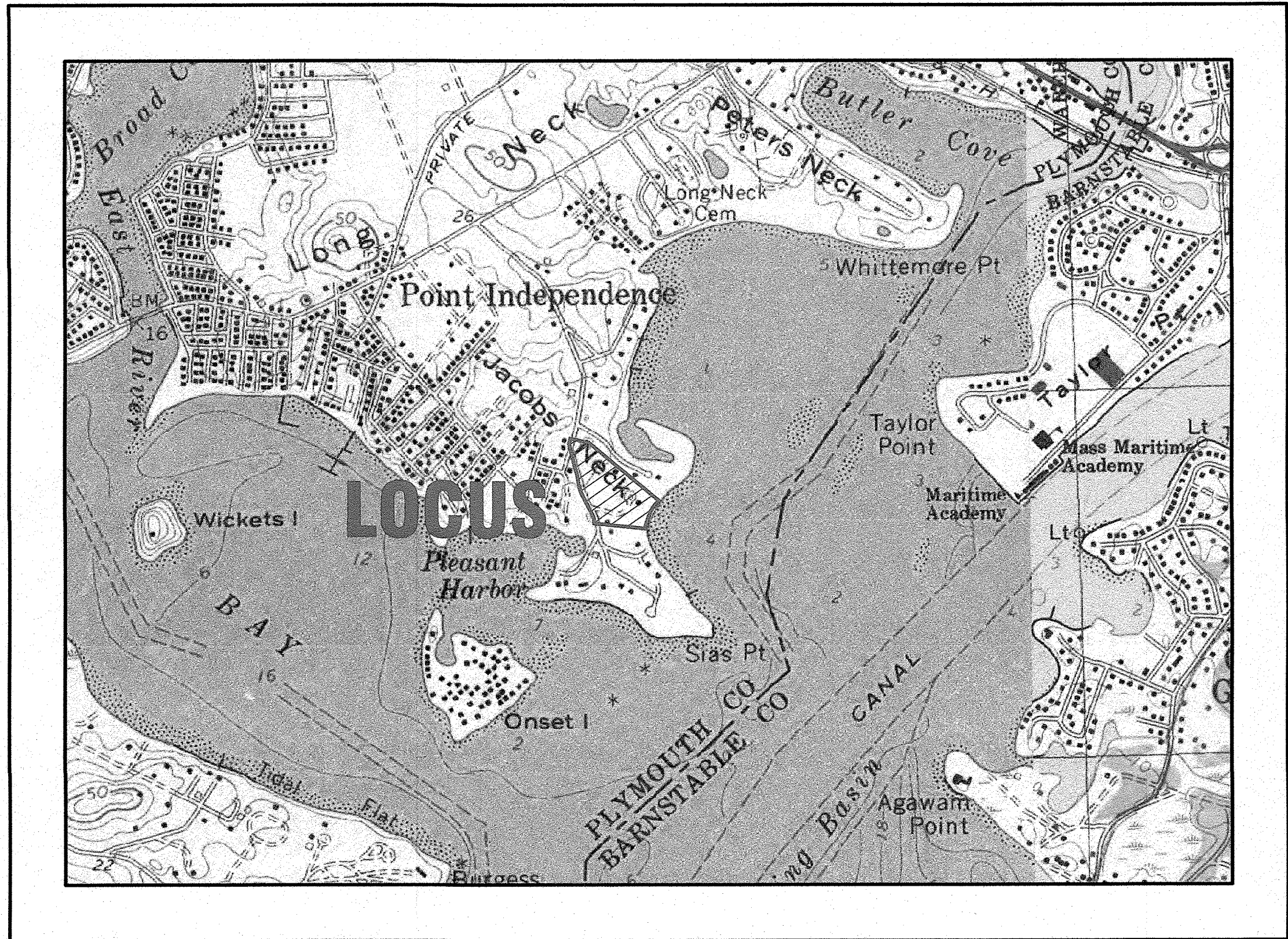


"MARITIME HAVEN"  
DEFINITIVE SUBDIVISION PLAN  
ROBINWOOD ROAD  
WAREHAM, MASSACHUSETTS

OWNER: RESI, LLC  
2 CHARLES STREET  
PROVIDENCE, RI 02904

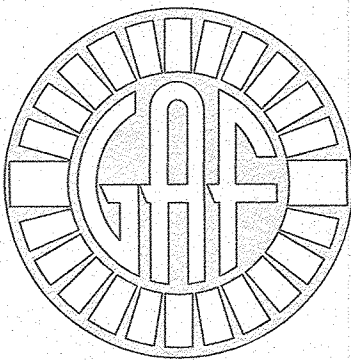
APPLICANT: RESI, LLC  
2 CHARLES STREET  
PROVIDENCE, RI 02904



— U.S.G.S. LOCUS PLAN —  
SCALE: 1"=1000'

**LOT DATA:**  
ASSESSORS MAP 4 / LOTS A, B & C  
ADDRESS: 36, 42 & 48 ROBINWOOD ROAD  
OWNER: RESI, LLC  
2 CHARLES STREET  
PROVIDENCE, RI 02904

**ZONING DATA:**  
ZONE: RESIDENCE 43 (R43)  
MINIMUM LOT AREA: 43,000 S.F.  
(MIN. 80% CONTIGUOUS UPLAND)  
MINIMUM FRONTAGE: 180'  
MINIMUM FRONT SETBACK: 40'  
MINIMUM SIDE SETBACK: 20'  
MINIMUM REAR SETBACK: 20'  
MAXIMUM BUILDING HEIGHT: 35'



**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

AUGUST 25, 2021



— AERIAL OVERVIEW —  
SCALE: 1"=400'

PLAN INDEX:	
SHEET NO.	DESCRIPTION:
1	COVER SHEET
2	GENERAL NOTES & LEGEND
3	EX- CONDITIONS & DEMOLITION PLAN
4	LOTING SHEET
5	UTILITIES PLAN
6	ROADWAY PLAN & PROFILE
7	EROSION CONTROL PLAN
8	DETAIL SHEET 1
9	DETAIL SHEET 2

**FLOOD ZONE DATA:**  
FLOOD ZONE DATA COMES FROM FEMA  
FLOOD MAP COMMUNITY PANEL NUMBER  
25023C0582K, DATED FEBRUARY 5, 2014.  
NOTE LOCUS IS ALSO SUBJECT TO LIMIT OF  
MODERATE WAVE ACTION (LIMWA).

DATE: AUGUST 25, 2021		DRAWN BY: JMP		CHECKED BY: WFM		JOB NO.: 20-9600		SCALE: AS NOTED	
APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:	
APPROVED BY: 1/4/22		APPROVED BY: 1/4/22		APPROVED BY: 1/4/22		APPROVED BY: 1/4/22		APPROVED BY: 1/4/22	
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	
"MARITIME HAVEN" DEFINITIVE SUBDIVISION PLAN		COVER SHEET		WAREHAM, MA		PROVIDENCE, RI		2 CHARLES STREET	
JOB NO.: 20-9600		DWG. 1 OF 9		PERMIT SET (NOT FOR CONSTRUCTION)		NO CHANGE THIS SHEET PER PEER REVIEW LETTER		NO CHANGE THIS SHEET PER PEER REVIEW LETTER	
DATE: 12/2/21		REV. 1		DATE: 12/2/21		REV. 1		DATE: 12/2/21	
BY: JMP		BY: WFM		BY: WFM		BY: WFM		BY: WFM	
DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION		DESCRIPTION	



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 MARCH OF 2021.
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 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.

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 SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE TOWN OF WAREHAM SEWER DEPARTMENT SPECIFICATIONS.
14. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.
15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.
16. DEWATERING IF REQUIRED SHALL BE DIRECTED TO A 5' MIN. DIAMETER RING OF HAYBALES OR A DIRTBAG. CONTRACTOR SHALL SIZE, PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK.

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 WILL ALSO NEED TO COMPLY TO ANY ORDER OF CONDITIONS THAT WILL BE ISSUED BY THE TOWN OF WAREHAM CONSERVATION COMMISSION.

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 ROADWAY CONSTRUCTION, ALL DRAINAGE STRUCTURES, INCLUDING THE DRAINAGE SWALES 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. A CONSTRUCTION ENTRANCE WILL NEED TO BE INSTALLED BEFORE ANY CONSTRUCTION ACTIVITY OCCURRING ON-SITE.
4. INSPECT DRAINAGE SWALES WEEKLY DURING CONSTRUCTION AND AFTER ALL RAIN EVENTS FOR THE FIRST FEW MONTHS AFTER INSTALLATION TO MAKE SURE THAT VEGETATION IN THE SWALES BECOMES ADEQUATELY ESTABLISHED. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED AREA OR STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. STONE FILLED TRENCHES SHALL BE COVERED WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED. IF THERE IS ANY EVIDENCE OF SEDIMENT ENTERING THE TRENCHES, THE AFFECTED AREA OF THE TRENCH SHALL BE FULLY RECONSTRUCTED INCLUDING THE FILTER FABRIC.
6. ALL AREAS SHALL BE INSPECTED WEEKLY, AND AFTER ALL 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 RESI, LLC 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. DRAINAGE SWALES SHALL BE INSPECTED SEMI-ANNUALLY AND MAINTENANCE AND REPAIRS MADE AS NECESSARY. ADDITIONAL INSPECTIONS SHOULD BE SCHEDULED DURING THE FIRST FEW MONTHS TO MAKE SURE THE VEGETATION BECOMES ADEQUATELY ESTABLISHED. REPAIR AND RE-SEED AS REQUIRED. CHECK SWALES FOR SLOPE INTEGRITY, SOIL MOISTURE, VEGETATIVE HEALTH, SOIL STABILITY, SOIL COMPACTION, SOIL EROSION, PONDING AND SEDIMENTATION. REGULAR MAINTENANCE INCLUDES MOWING, FERTILIZING, LIMING, WATER, PRUNING AND WEED AND PEST CONTROL.
3. MOW DRAINAGE SWALES AT LEAST ONCE PER YEAR. GRASS CLIPPINGS SHALL BE REMOVED. DO NOT CUT THE GRASS SHORTER THAN 3-4 INCHES, OTHERWISE THE EFFECTIVENESS OF THE VEGETATION IN REDUCING FLOW VELOCITY AND REMOVING POLLUTANTS MAY BE REDUCED. DO NOT LET THE GRASS HEIGHT EXCEED SIX INCHES. MANUALLY REMOVE SEDIMENT AND DEBRIS AT LEAST TWICE A YEAR AND PERIODICALLY RE-SEED IF NECESSARY TO MAINTAIN A DENSE GROWTH OF VEGETATION. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
4. STONE FILLED TRENCHES SHALL BE INSPECTED DURING AND 24 HOURS AFTER ALL MAJOR STORM EVENTS TO LOOK FOR PONDED WATER. IF THERE IS EVIDENCE OF PONDED WATER AT THE SURFACE OF THE TRENCH, IT IS LIKELY THAT THE TRENCH IS CLOGGED. REMOVE AND REPLACE THE FIRST LAYER OF STONE AGGREGATE AND FILTER FABRIC. IF WATER IS PONDED INSIDE THE TRENCH THEN THE TRENCH HAS FAILED. IN THIS CASE REMOVE ALL ACCUMULATED SEDIMENT, STONE AND FILTER FABRIC, THE BOTTOM OF THE TRENCH MUST BE SCARIFIED AND TILLED TO INDUCE INFILTRATION AND REPLACE WITH NEW STONE AND FILTER FABRIC. INSPECT STONE TRENCHES EVERY 6 MONTHS AND ROUTINELY REMOVE DEBRIS, TRASH, LEAVES, AND ANY SEDIMENT FROM THE SURFACE OF THE TRENCH, ADD STONE IF NECESSARY.
5. CRUSHED STONE PADS AT PIPE ENDS SHALL BE CLEANED FOUR TIMES PER YEAR AND INSPECTED MONTHLY. ADD STONE IF NECESSARY. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE REMOVED AND DISPOSED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
6. A CHECK DAM IS A SMALL DAM CONSTRUCTED ACROSS A DRAINAGE DITCH, SEDIMENT FOREBAY, SWALE OR CHANNEL TO LOWER THE VELOCITY OF FLOW. REDUCED RUNOFF VELOCITY REDUCES EROSION AND GULLYING IN THE CHANNEL AND ALLOWS SEDIMENT TO SETTLE OUT. INSPECT CHECK DAMS AFTER SIGNIFICANT RAINFALL EVENT AND WHEN MAINTAINING THE SWALES. REPAIR ANY DAMAGE AND REMOVE SEDIMENT AS NEEDED. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

DRAINAGE INSTALLATION NOTES:

1. ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. 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 1.5 FEET.
4. ALL PERFORATED PIPE SHALL BE ADS HDPE PIPE WITH AASHTO CLASS II PERFORATION PATTERN.
5. ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.

DEMOLITION NOTES:

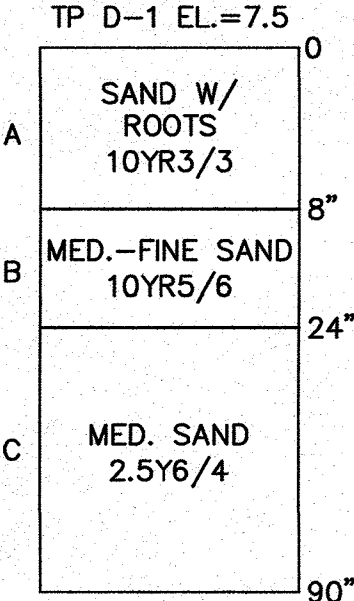
1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD FOR RESOLUTION AND CONSTRUCTION METHOD.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND APPARATUS NECESSARY AND SHALL DO ALL WORK REQUIRED TO COMPLETE THE DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING FACILITIES, INCLUDING PIPING SYSTEMS AND APPURTENANCES, DRAINAGE, PAVEMENT, LANDSCAPE AND SITE FEATURES ENCOUNTERED DURING THE INSTALLATION AS INDICATED ON THE DRAWINGS, AS HEREIN SPECIFIED, AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
3. ALL EQUIPMENT, PIPING, AND OTHER MATERIALS THAT ARE NOT TO BE RELOCATED OR TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM, AWAY FROM THE SITE OF THE WORK AND AT HIS OWN EXPENSE.
4. ALL DEMOLITION OR REMOVAL OF EXISTING STRUCTURES, PAVEMENT, UTILITIES, EQUIPMENT, AND APPURTENANCES, LANDSCAPE AND SITE FEATURES SHALL BE ACCOMPLISHED WITHOUT DAMAGING THE INTEGRITY OF EXISTING STRUCTURES, EQUIPMENT, PAVEMENT, APPURTENANCES, AND TREES TO REMAIN.
5. SUCH ITEMS THAT ARE DAMAGED SHALL BE EITHER REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF HIS WORK TO THE SATISFACTION OF THE DESIGN ENGINEER AND/OR THE OWNER.
6. PROVIDE TWO (2) COPIES OF PROPOSED METHODS AND OPERATIONS OF DEMOLITION TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO THE START OF WORK. INCLUDE IN THE SCHEDULE THE COORDINATION FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
7. PROVIDE A DETAILED SEQUENCE OF WORK TO THE DESIGN ENGINEER AND THE OWNER FOR DEMOLITION AND REMOVAL WORK TO ENSURE THE UNINTERRUPTED PROGRESS OF THE OWNER'S OPERATIONS.
8. ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES AND PERSONS.
9. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN.
10. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES AT NO COST TO THE OWNER.
11. THE EXISTING BUILDING FOOTPRINT SHALL BE BACKFILLED WITH ORDINARY SANDY FILL AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY.

WATER INSTALLATION NOTES:

1. ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE ONSET FIRE DISTRICT AND ONSET WATER DEPARTMENTS RULES & REGULATIONS.
2. WATER MAIN SHALL BE PRESSURE TESTED, FLUSHED & DISINFECTED IN ACCORDANCE WITH THE ONSET FIRE DISTRICT AND ONSET WATER DEPARTMENTS REQUIREMENTS.
3. CONTRACTOR TO COORDINATE WITH THE ONSET FIRE DISTRICT AND THE ONSET WATER DEPARTMENT FOR THE INSPECTIONS OF THE WATER MAIN INSTALLATION.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE INSTALLATION OF THE WATER SYSTEM.
5. THE CONTRACTOR SHALL OBTAIN A COPY OF THE "ONSET FIRE DISTRICT, WATER DEPARTMENT GENERAL PROCEDURES, CONSTRUCTION SPECIFICATIONS & MATERIAL SPECIFICATIONS" FROM THE ONSET WATER DEPARTMENT BEFORE PROCEEDING WITH THE INSTALLATION OF THE WATER SYSTEM.
6. ALL WATER MAINS SHALL BE 8" C-900 DR-18 CLASS 150 PIPE WITH DUCTILE IRON MECHANICAL JOINT FITTINGS, PRESSURE FITTINGS ARE NOT ALLOWED. REFER TO THE "ONSET FIRE DISTRICT, WATER DEPARTMENT GENERAL PROCEDURES, CONSTRUCTION SPECIFICATIONS & MATERIAL SPECIFICATIONS" FOR COMPLETE DETAILS.
7. ALL SEWER SERVICE LINES SHALL BE INSTALLED A MINIMUM OF 10' FROM WATER SERVICE LINES.

TEST PIT DATA

DATE OF TESTING: MAY 4, 2021  
PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING INC.  
REFER TO EXISTING CONDITIONS & DEMOLITION PLAN FOR TEST PIT LOCATIONS



MOTTLES ENC. @ 72"  
WATER ENC. @ 84"

ABBREVIATIONS

AC	ASBESTIC CONCRETE
ADS	ADVANCED DRAINAGE SYSTEM
APPROX.	APPROXIMATE
BC	BOTTOM OF CURB
BIT. CONC.	BITUMINOUS CONCRETE
BLDERS	BOULDERS
BW	BOTTOM OF WALL
BYW	BORDERING VEGETATED WETLANDS
CB	CATCH BASIN
CB/DH	CONCRETE BOUND/DRILL HOLE
CCB	CAPE COD BERM
CEM.	CEMENT
C.I.	CAST IRON
CONC.	CONCRETE
C.O.	CLEAN OUT
C.I.D.I.	CEMENT LINED DUCTILE IRON
OMP	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
EOP	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
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
RCF	REINFORCED CONCRETE PIPING
R	RADIUS
R&D	REMOVE AND DISPOSE
R&S	REMOVE AND STOCK
SB/DH	STONE BOUND/DRILL HOLE
SGC	SEWER
SMH	SLOPED GRANITE CURBING
STA	STATION
TC	TOP OF CURB
TW	TOP OF WALL
TYP.	TYPICAL
T/O/F	TOP OF FOUNDATION
UP	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	55
	53x5	52x5
	52x5	52x5
	WETLANDS	
	F.E.M.A. FLOOD ZONE	
	DRAIN LINE	D
	PERFORATED DRAIN LINE	D
	ROOF DRAIN LINE	RD
	CATCH BASIN (CB)	
	DRAIN MANHOLE (DMH)	
	CLEAN OUT (C.O.)	
	ELECTRIC MANHOLE (EMH)	
	UNDERGROUND UTILITIES	UE
	OVERHEAD WIRES	OHW
	UTILITY POLE	
	GUY POLE	
	WATER GATE VALVE	
	WATER SHUTOFF/CURB STOP	
	HYDRANT	
	POST INDICATOR VALVE	
	WATER LINE	W
	FIRE PROTECTION LINE	FP
	SEWER MANHOLE (SMH)	
	SEWER LINE	S
	FORCE MAIN	FM
	TREELINE	
	LIGHT POST	
	GAS LINE	G
	GAS GATE/VALVE	
	GAS SHUTOFF	
	GAS METER	
	SIGN	
	FENCE	
	BOUND	
	TEST PIT/PERC TEST	
	SILT FENCE	
	GUARD RAIL	
	FLARED END SECTION	
	STONE WALL	

DATE: AUGUST 25, 2021  
DRAWN BY: J.M.P.  
CHECKED BY: WFM  
JOB NO.: 20-9600  
SCALE: AS NOTED

APPROVED BY: [Signature]  
[Stamp: 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]

APPROVED BY: [Signature]  
[Stamp: 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]

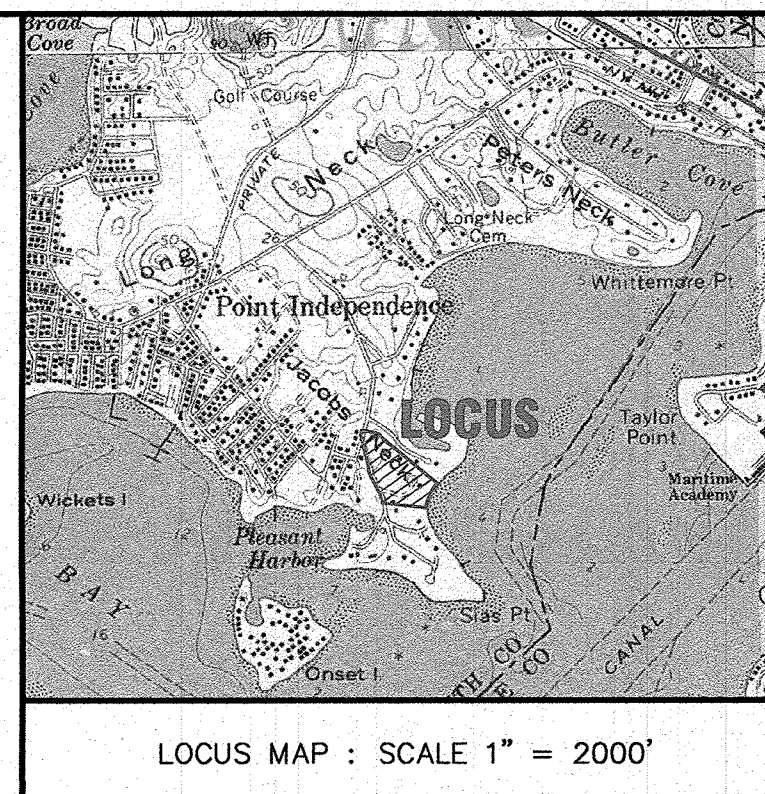
"MARITIME HAVEN"  
DEFINITIVE SUBDIVISION PLAN  
GENERAL NOTES & LEGEND



36, 42, 48 ROBINWOOD ROAD WAREHAM, MA  
PREPARED FOR:  
RESI, LLC  
2 CHARLES STREET PROVIDENCE, RI

JOB NO.: 20-9600  
DWG. 2 OF 9

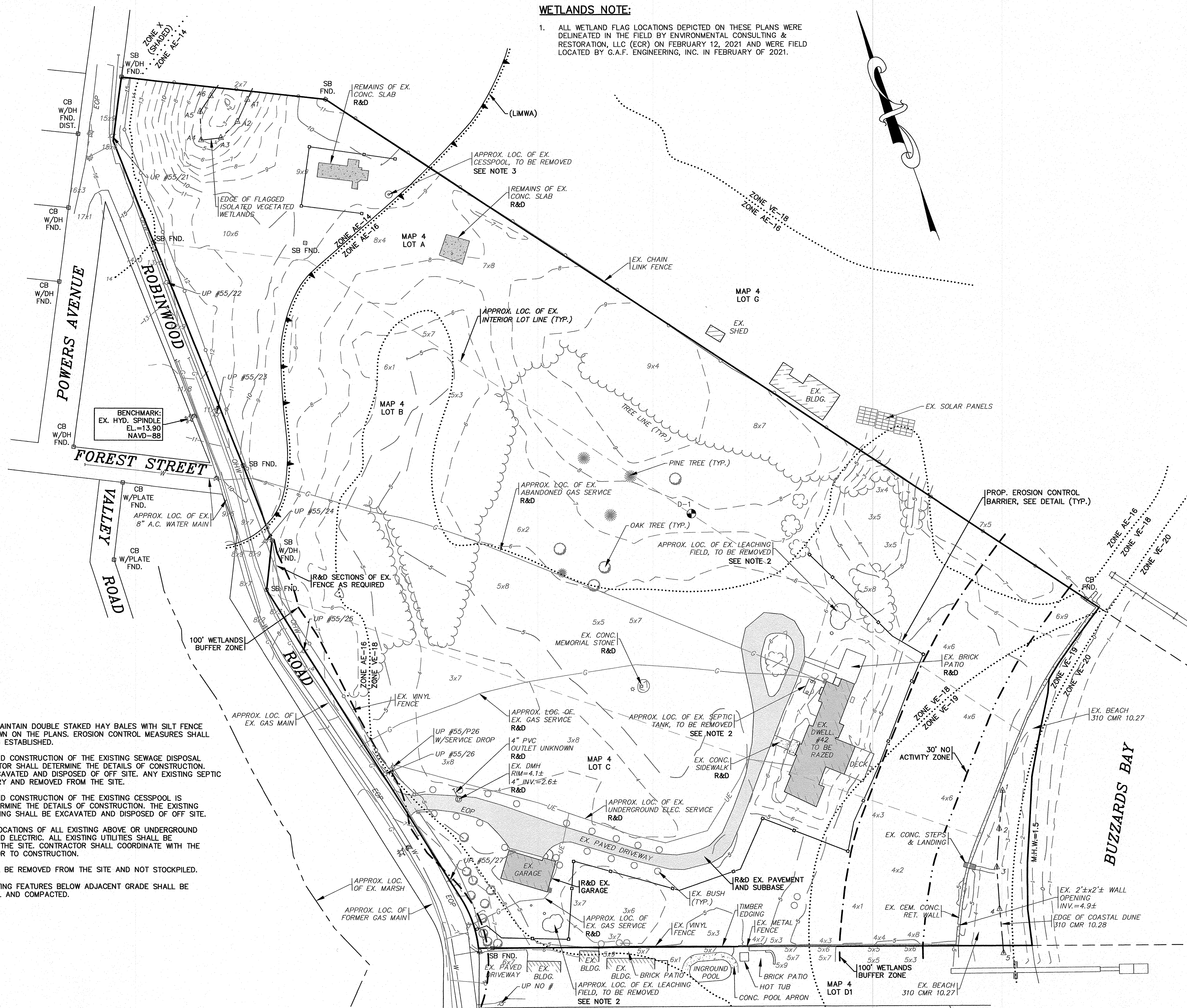


1. ALL WETLAND FLAG LOCATIONS DEPICTED ON THESE PLANS WERE DELINEATED IN THE FIELD BY ENVIRONMENTAL CONSULTING & RESTORATION, LLC (ECR) ON FEBRUARY 12, 2021 AND WERE FIELD LOCATED BY G.A.F. ENGINEERING, INC. IN FEBRUARY OF 2021.

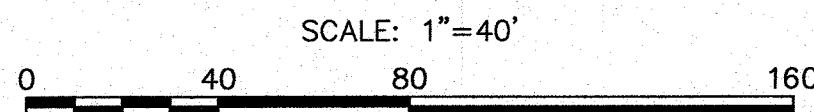


"MARITIME HAVEN" DEFINITIVE SUBDIVISION PLAN EX. CONDITIONS & DEMOLITION PLAN 36, 42, 48 ROBINWOOD ROAD WAREHAM, MA		G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com		APPROVED BY:  1/4/22  WILLIAM MADDEN NO. 33863 STATE OF MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER 		DATE: AUGUST 25, 2021 DRAWN BY: JMP CHECKED BY: RAB JOB NO.: 20-9600 SCALE: 1" = 40'		DATE: 1/4/22 REV. 1 DATE 12/2/21 BY JMP DESCRIPTION PER PEER REVIEW LETTER	
JOB NO.: 20-9600 DWG. 3 OF 9		PREPARED FOR: RESI, LLC		PROVIDENCE, RI		2 CHARLES STREET			

1. CONTRACTOR SHALL PROVIDE AND MAINTAIN DOUBLE STAKED HAY BALES WITH SILT FENCE EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
2. THE EXACT LOCATION, ELEVATION AND CONSTRUCTION OF THE EXISTING SEWAGE DISPOSAL SYSTEM IS UNKNOWN. THE CONTRACTOR SHALL DETERMINE THE DETAILS OF CONSTRUCTION. THE EXISTING SYSTEM SHALL BE EXCAVATED AND DISPOSED OF OFF SITE. ANY EXISTING SEPTIC TANKS FOUND SHALL BE PUMPED DRY AND REMOVED FROM THE SITE.
3. THE EXACT LOCATION, ELEVATION AND CONSTRUCTION OF THE EXISTING CESSPOOL IS UNKNOWN. CONTRACTOR SHALL DETERMINE THE DETAILS OF CONSTRUCTION. THE EXISTING CESSPOOL AND ALL ASSOCIATED PIPING SHALL BE EXCAVATED AND DISPOSED OF OFF SITE.
4. CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING WATER, GAS AND ELECTRIC. ALL EXISTING UTILITIES SHALL BE DISCONNECTED AND REMOVED FROM THE SITE. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION.
5. ALL DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED.
6. ANY EXCAVATION/REMOVAL OF EXISTING FEATURES BELOW ADJACENT GRADE SHALL BE REFILLED WITH ORDINARY SANDY FILL AND COMPACTED.



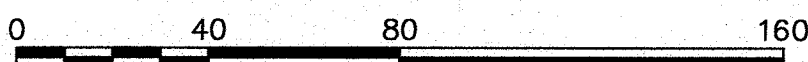
## EX. CONDITIONS & DEMOLITION PLAN





PROPOSED REBAR W/CAP TO BE SET

1. ALL WETLAND FLAG LOCATIONS DEPICTED ON THESE PLANS WERE DELINEATED IN THE FIELD BY ENVIRONMENTAL CONSULTING & RESTORATION, LLC (ECR) ON FEBRUARY 12, 2021 AND WERE FIELD LOCATED BY G.A.F. ENGINEERING, INC. IN FEBRUARY OF 2021.
2. ALL LOTS WILL BE SERVED BY MUNICIPAL WATER AND SEWER.
3. REFER TO A LAND COURT PETITION PLAN PREPARED BY G.A.F. ENGINEERING, INC. AS FILED WITH THE COURT DATED JUNE 16, 2021 AND LAST REVISED DECEMBER 2, 2021.



PLAN REF: LAND COURT PLAN NO. 2433D

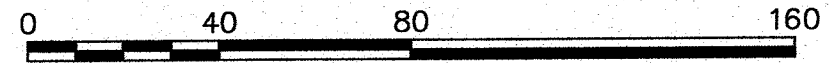
ROBERT A. BRAMAN, JR  
P.L.S. # 45850

REFER TO A LETTER TO THE PLANNING BOARD  
FOR THE LIST OF WAIVERS REQUESTED.

JOB NO.: 20-9600

4 OF 9





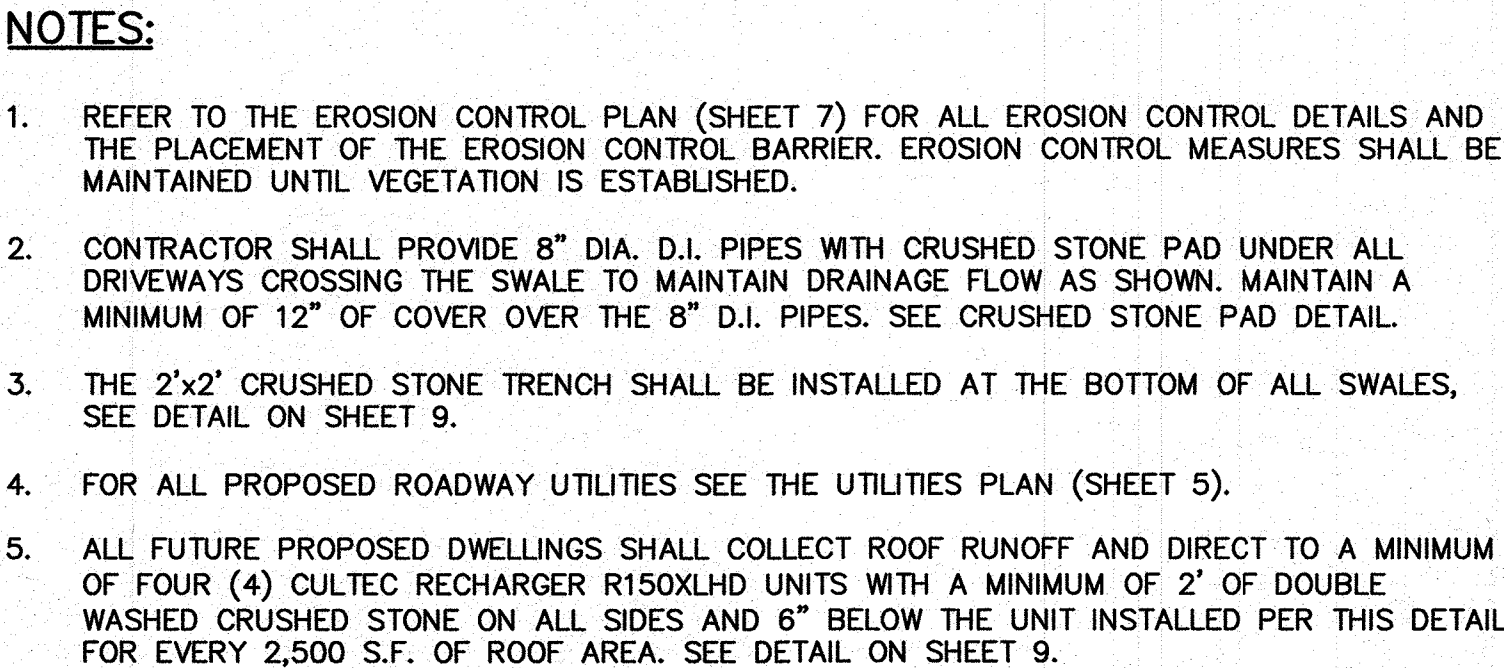
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DRAWN BY: JMP  
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JOB NO.: 20-9600  
SCALE: 1" = 40'

APPROVED BY:

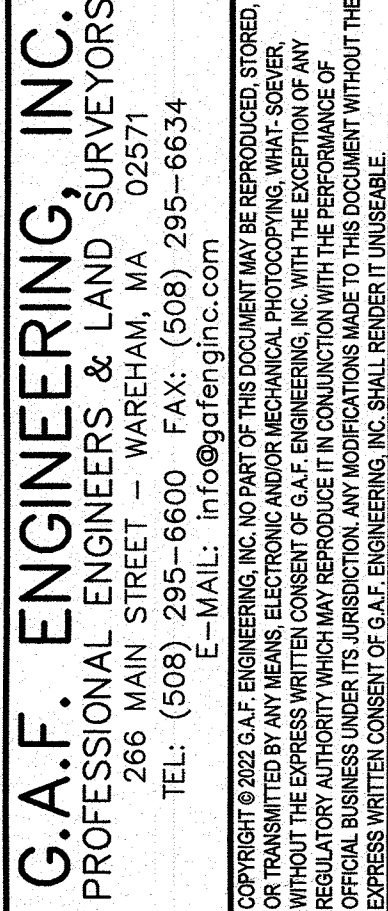


JOB NO.: 20-9600





1. THE PROPOSED SEWER FORCE MAIN IS SHOWN OFFSET FOR CLARITY. THE FORCE MAIN SHALL KEEP A MINIMUM 10' HORIZONTAL SEPARATION FROM THE WATER MAIN OR SERVICE. REFER TO PLAN VIEW ABOVE. SEE NOTE 8 FOR WHEN A SEWER FORCE MAIN CROSSES ABOVE A WATER MAIN OR SERVICE.
2. THE PROPOSED 8" WATER MAIN SHALL BE RUN IN THE PROPOSED UTILITY EASEMENT ALONG THE SOUTH PROPERTY LINE OF LOT 54 AND BE CONNECTED TO THE EXISTING 8" WATER MAIN AT ROBINWOOD ROAD. CONNECT TO EXISTING 8" A.C. WATER MAIN W/8"x8"x8" TE, PROVIDE (3) GATE VALVE WITH VALVE BOX TO GRADE. SEE UTILITIES PLAN FOR LOCATION (SHEET 5).



**"MARITIME HAVEN"  
DEFINITIVE SUBDIVISION PLAN  
PLAN & ROADWAY PROFILE**

36, 42, 48 ROBINWOOD ROAD  
WAREHAM, MA

PREPARED FOR:

**RESI, LLC**

2 CHARLES STREET  
PROVIDENCE, RI

[illegible]

DATE: AUGUST 25, 2021  
DRAWN BY: JMP  
CHECKED BY: WFM  
JOB NO.: 20-9600  
SCALE: 1" = 40'

APPROVED BY: \_\_\_\_\_

1/1/22


WILLIAM F. MADDEN  
CLERK OF SUPERIOR COURT  
NOV 2008

COMMONWEALTH OF MASSACHUSETTS  
REGISTERED MAIL

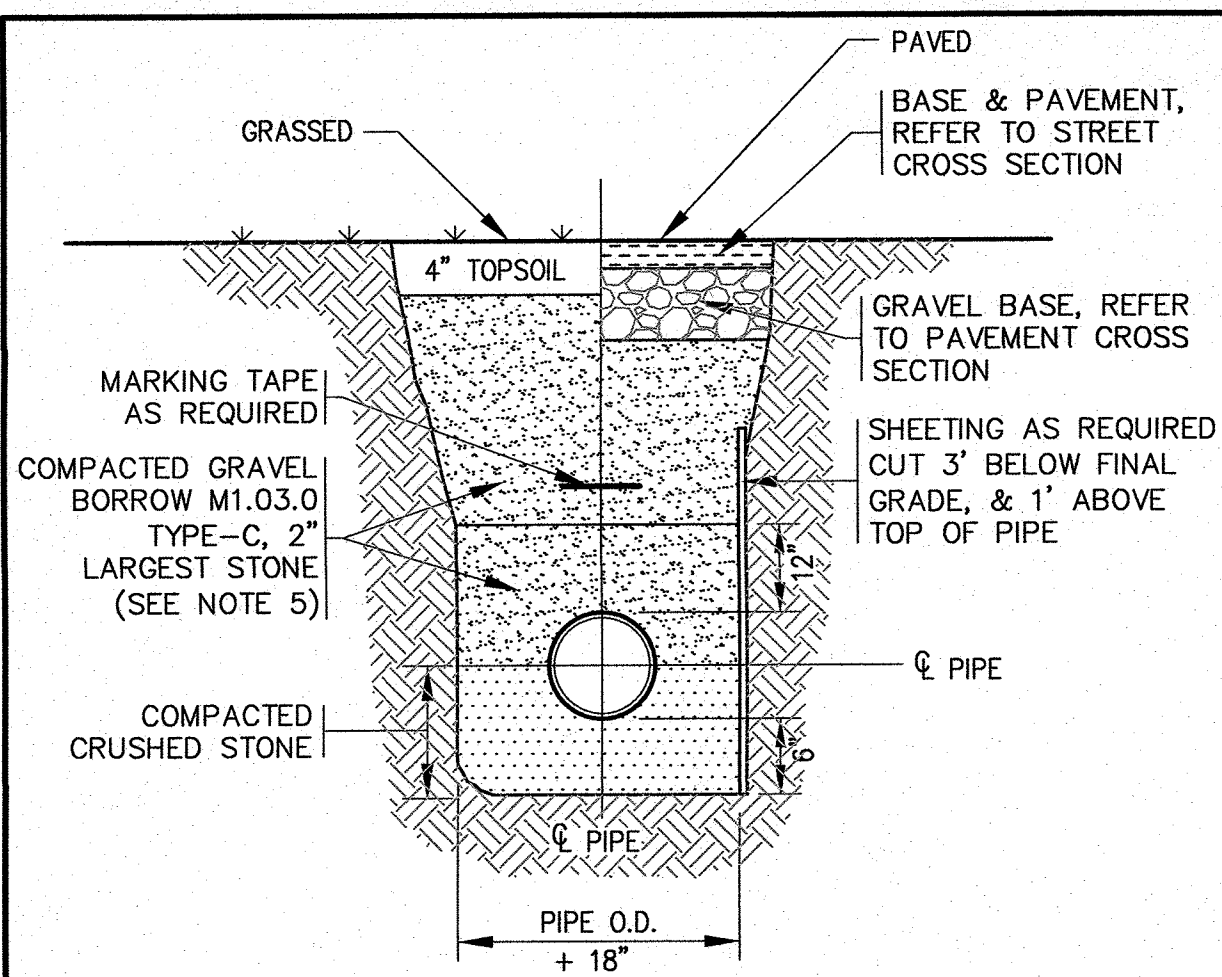




- ## NOTES:
1. A CONSTRUCTION ENTRANCE WILL NEED TO BE INSTALLED BEFORE ANY CONSTRUCTION ACTIVITY OCCURRING ON-SITE.
  2. CONTRACTOR SHALL PROVIDE AND MAINTAIN DOUBLE STAKED HAY BALES WITH SILT FENCE EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
  3. CONTRACTOR SHALL SIZE, PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK. DEWATERING IF REQUIRED SHALL BE DIRECTED TO A DEWATERING BASIN OR A DIRTBAG. FINAL SIZE AND LOCATION OF DEWATERING EQUIPMENT SHALL BE DETERMINED BY THE CONTRACTOR AT TIME OF CONSTRUCTION.
  4. THE FINAL LOCATION OF CONTRACTORS STAGING AREA SHALL BE DETERMINED BY THE CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER.
  5. CONTRACTOR SHALL INSPECT DRAINAGE SWALES DAILY AND AFTER ALL RAIN EVENTS. REFER TO THE DRAINAGE OPERATION AND MAINTENANCE SCHEDULE FOR MORE DETAILS.
  6. THE TEMPORARY GRAVEL ACCESS PAD TO THE CONTRACTORS STAGING AREA SHALL BE RELOCATED PRIOR TO THE INSTALLATION OF THE PROPOSED UTILITY POLE AND TRANSFORMER. CONTRACTOR SHALL COORDINATE WITH OWNER.
  7. CONTRACTOR SHALL PROTECT ALL DRIVEWAY CULVERT PIPES AND CRUSHED STONE PADS DURING CONSTRUCTION BY KEEPING THEM CLEARED FROM THE BUILD UP OF DEBRIS.
  8. STONE FILLED TRENCHES SHALL BE COVERED WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED. IF THERE IS ANY EVIDENCE OF SEDIMENT ENTERING THE TRENCHES, THE AFFECTED AREA OF THE TRENCH SHALL BE FULLY RECONSTRUCTED INCLUDING THE FILTER FABRIC.
  9. ALL DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED.
  10. THE LIMIT OF WORK LINE & CLEARING FOR THE PROPOSED ROADWAY CONSTRUCTION SHALL ALSO BE SET AT THE LIMITS OF THE EROSION CONTROL BARRIER.

<b>"MARITIME HAVEN"</b> <b>DEFINITIVE SUBDIVISION PLAN</b> <b>EROSION CONTROL PLAN</b> 36, 42, 48 ROBINWOOD ROAD WAREHAM, MA		<b>G.A.F. ENGINEERING, INC.</b> PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com		APPROVED BY: <i>[Signature]</i> 		APPROVED BY: _____ DATE: AUGUST 25, 2021	
DWG. 7 OF 9		JOB NO.: 20-9600		DRAWN BY: JMP		CHECKED BY: WFM	
PREPARED FOR: <b>RESI, LLC</b>		COPYRIGHT © 2022 G.A.F. ENGINEERING, INC. NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED, TRANSMITTED, OR IN ANY MANNER DISCLOSED TO THE PUBLIC WITHOUT THE EXPRESS WRITTEN CONSENT OF G.A.F. ENGINEERING, INC. WITH THE EXCEPTION OF ANY REGULATORY AUTHORITY WHICH MAY REPRODUCE IT IN CONNECTION WITH THE PERFORMANCE OF ANY REGULAR DUTY. ANY OTHER REPRODUCTION OR DISCLOSURE WITHOUT THE WRITTEN CONSENT OF G.A.F. ENGINEERING, INC. SHALL BE PENALIZED UNLAWFULLY.		JOB NO.: 20-9600		2 1/4/22 JMP WFM	
2 CHARLES STREET PROVIDENCE, RI		SCALE: 1" = 40'		1 12/22/21 WFM WFM		PER PEER REVIEW LETTER	
				REV. DATE BY APP'D		DESCRIPTION	

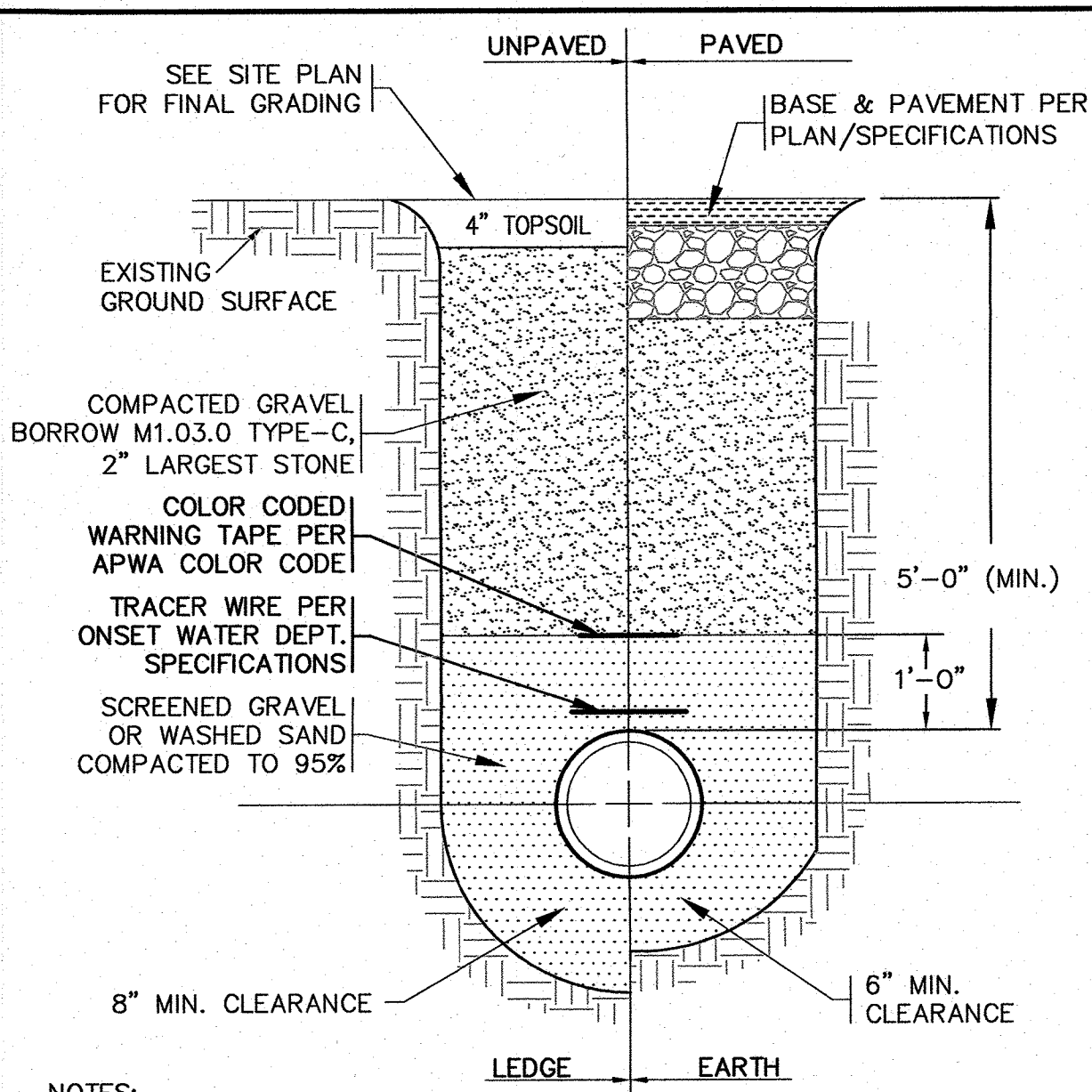




NOTES:

- PIPE BEDDING SHALL BE COMPACTED BEFORE PIPE INSTALLATION.
- COMPACTION AROUND PIPE SHALL BE BY TAMPER AT 6" MAX. LIFTS.
- MIN. COVER OVER DRAINAGE PIPE = 1'-6", UNLESS OTHERWISE NOTED.
- MIN. COVER OVER WATER SERVICES/MAINS = 5'-0".
- FOR ALL WORK IN ROBINWOOD ROAD USE FLOWABLE FILL AS REQUIRED BY THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.

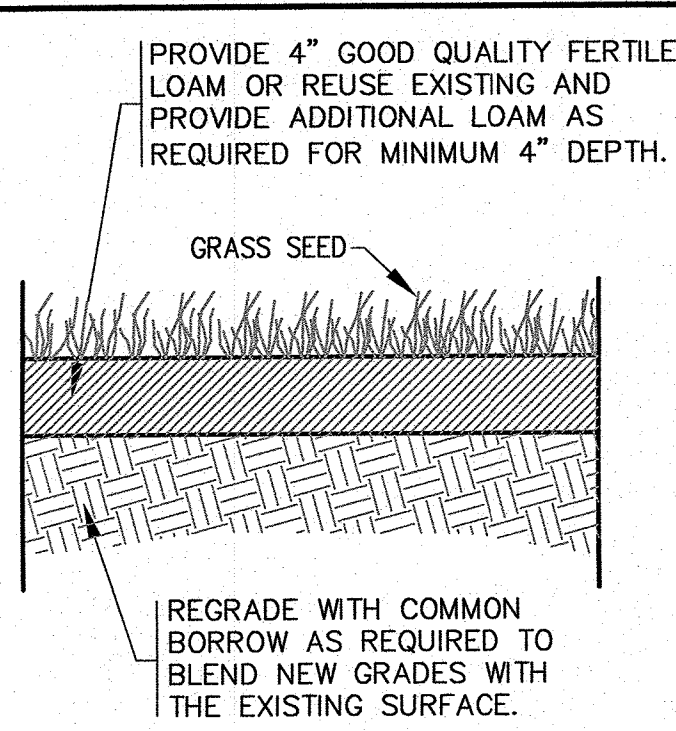
TYPICAL PIPE TRENCH  
N.T.S.



NOTES:

- PIPE BEDDING SHALL BE COMPACTED BEFORE PIPE INSTALLATION.
- COMPACTION AROUND PIPE SHALL BE BY TAMPER AT 6" MAX. LIFTS.
- INSTALL TRACER WIRE AND TERMINATION TRACE WIRE ACCESS BOX PER ONSET FIRE & ONSET WATER DEPARTMENTS SPECIFICATIONS.

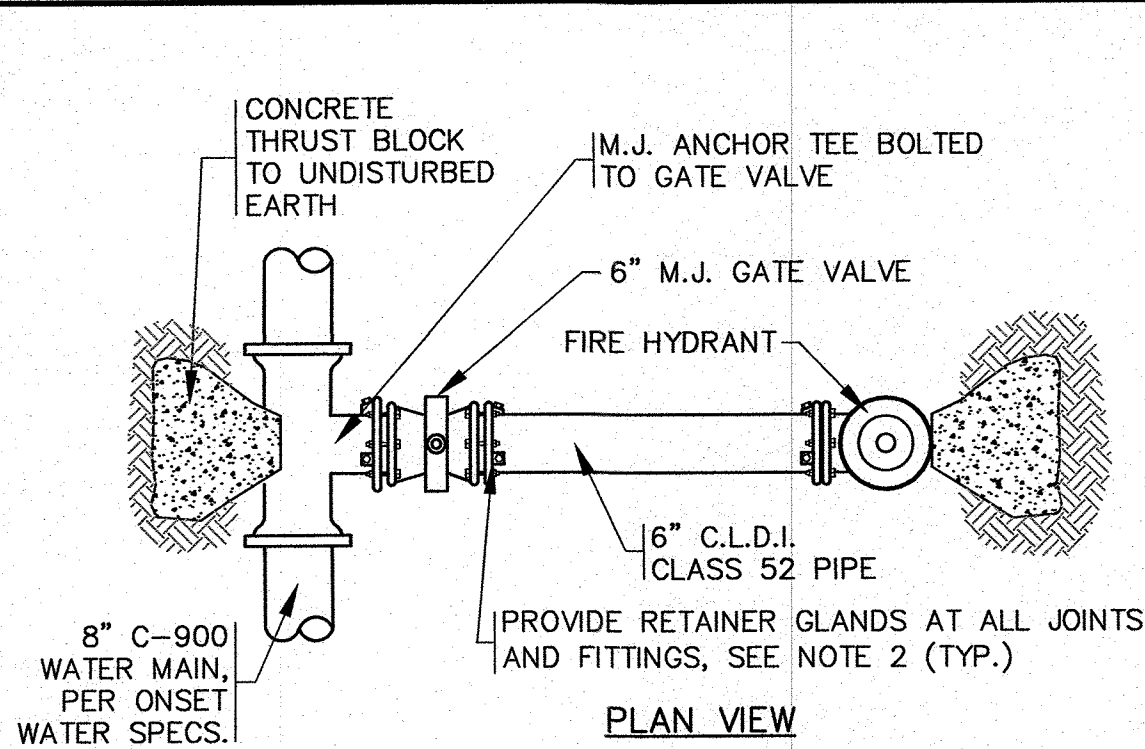
WATER PIPE TRENCH  
N.T.S.



NOTES:

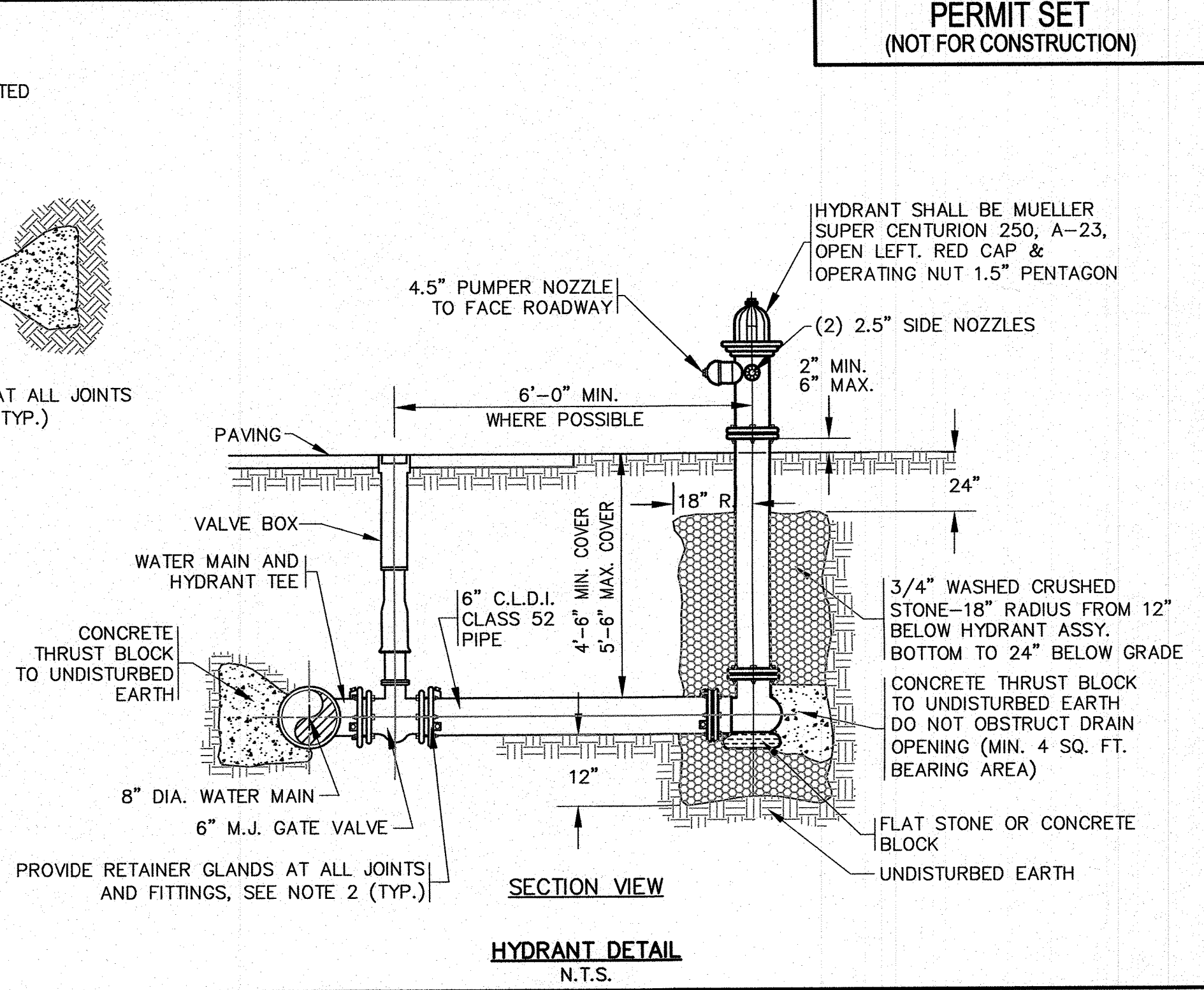
- MATERIALS AND CONSTRUCTION METHODS FOR LOAM BORROW AND TOPSOIL SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 751 OF THE MassDOT STANDARD SPECIFICATIONS AND WITH THE PROCEDURES DESCRIBED HEREIN.
- MATERIALS AND CONSTRUCTION FOR SEEDING SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 765 OF THE MassDOT STANDARD SPECIFICATIONS.
- SEED FOR GRASS STRIPS SHALL CONFORM TO MassDOT MATERIAL SPEC. M6.03.0, GRASSPLOTS AND ISLANDS.
- 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.

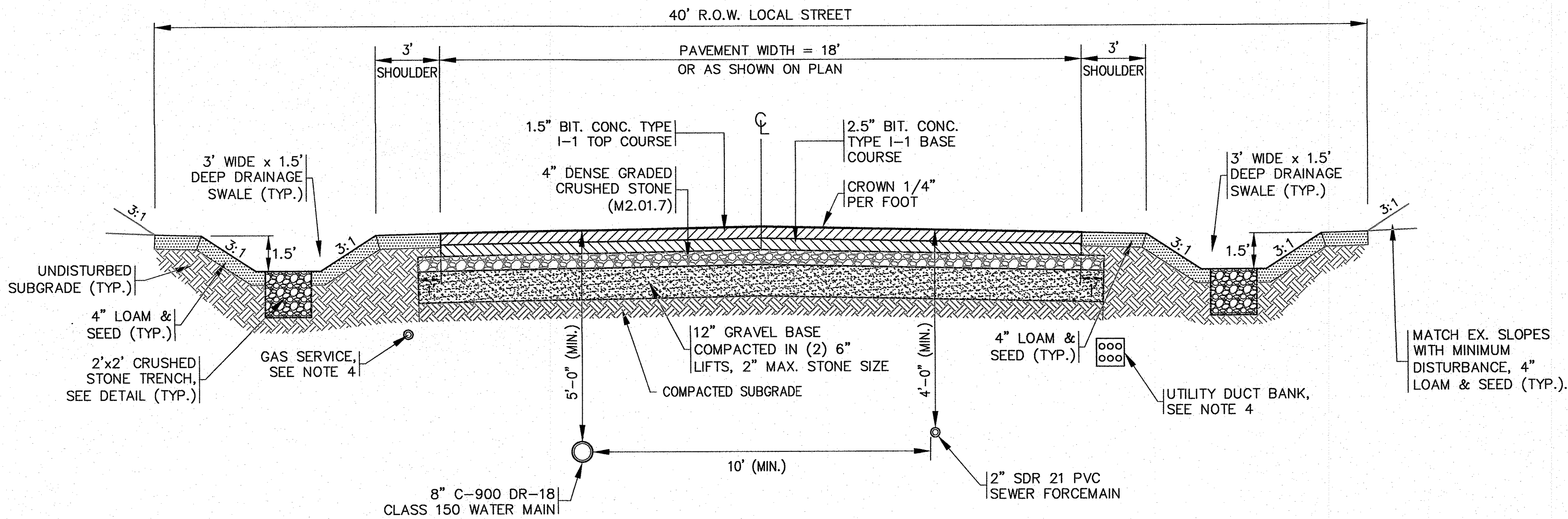


NOTES:

- ALL PROPOSED WORK, MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL BE APPROVED AND DONE IN ACCORDANCE WITH THE ONSET WATER DEPARTMENT AND ONSET FIRE DISTRICTS RULES AND SPECIFICATIONS.
- 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.
- GATE VALVES SHALL OPEN LEFT, MUELLER WEDGE #T-2360-20 OPEN LEFT WITH STAINLESS STEEL NUTS AND BOLTS, OR APPROVED EQUAL.
- INSTALL TRACER WIRE AND TERMINATION TRACE WIRE ACCESS BOX PER ONSET FIRE & ONSET WATER DEPARTMENTS SPECIFICATIONS.



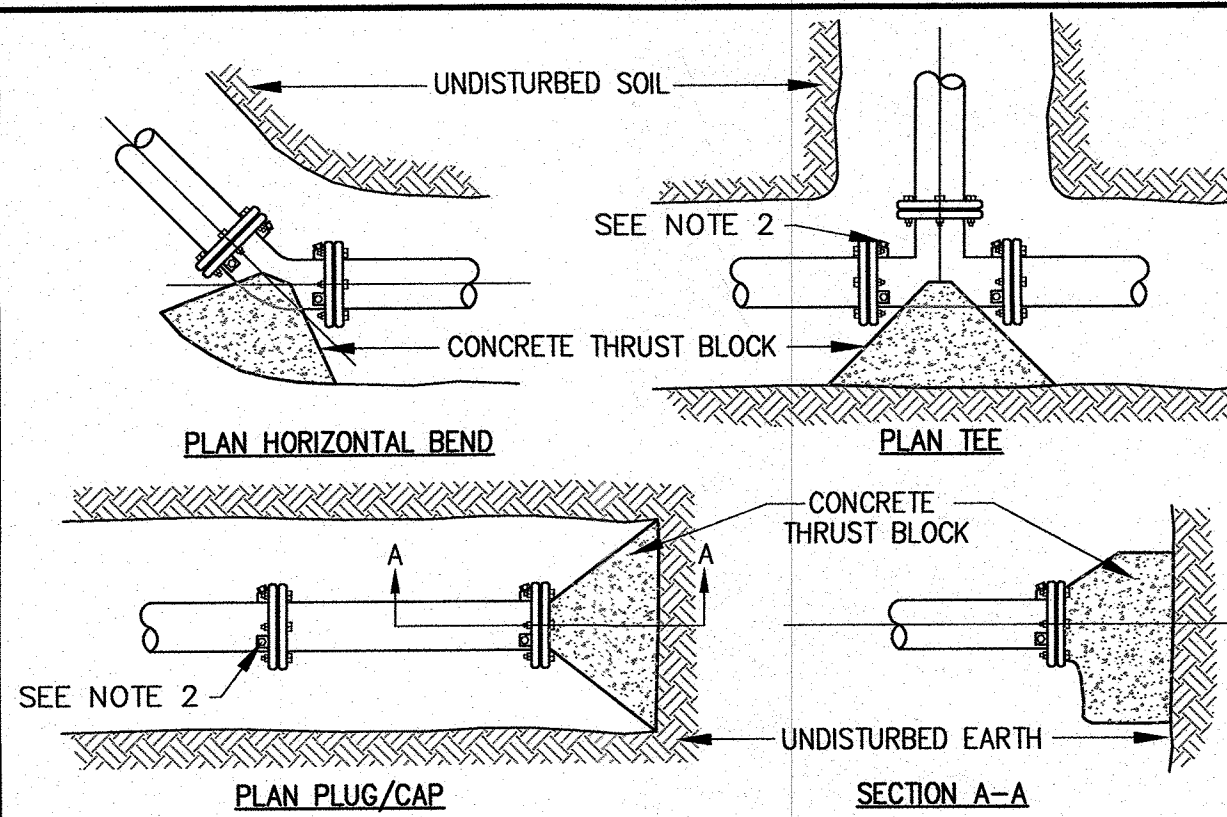
HYDRANT DETAIL  
N.T.S.



NOTES:

- ALL PAVEMENT SHALL BE IN ACCORDANCE WITH MassDOT SPEC. SECTION 460 & 401, UNLESS OTHERWISE NOTED, AND SHALL MEET THE TOWN OF WAREHAM 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 UTILITY SERVICE SHALL BE DETERMINED BY THEIR RESPECTIVE UTILITY PROVIDER.

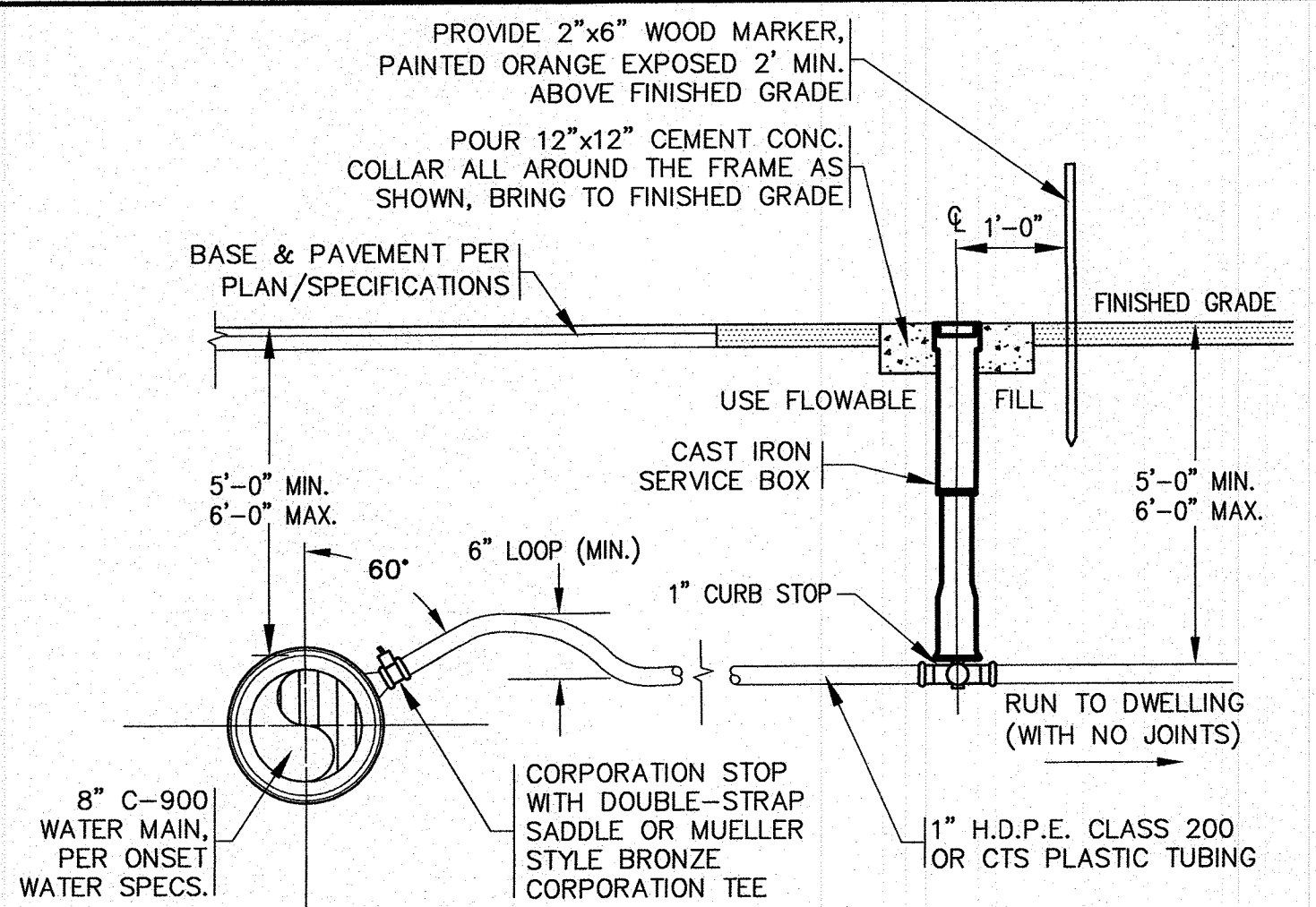
TYPICAL STREET CROSS SECTION  
N.T.S.



NOTES:

- ALL PROPOSED WORK, MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL BE APPROVED AND DONE IN ACCORDANCE WITH THE ONSET WATER DEPARTMENT AND ONSET FIRE DISTRICTS RULES AND SPECIFICATIONS.
- 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.

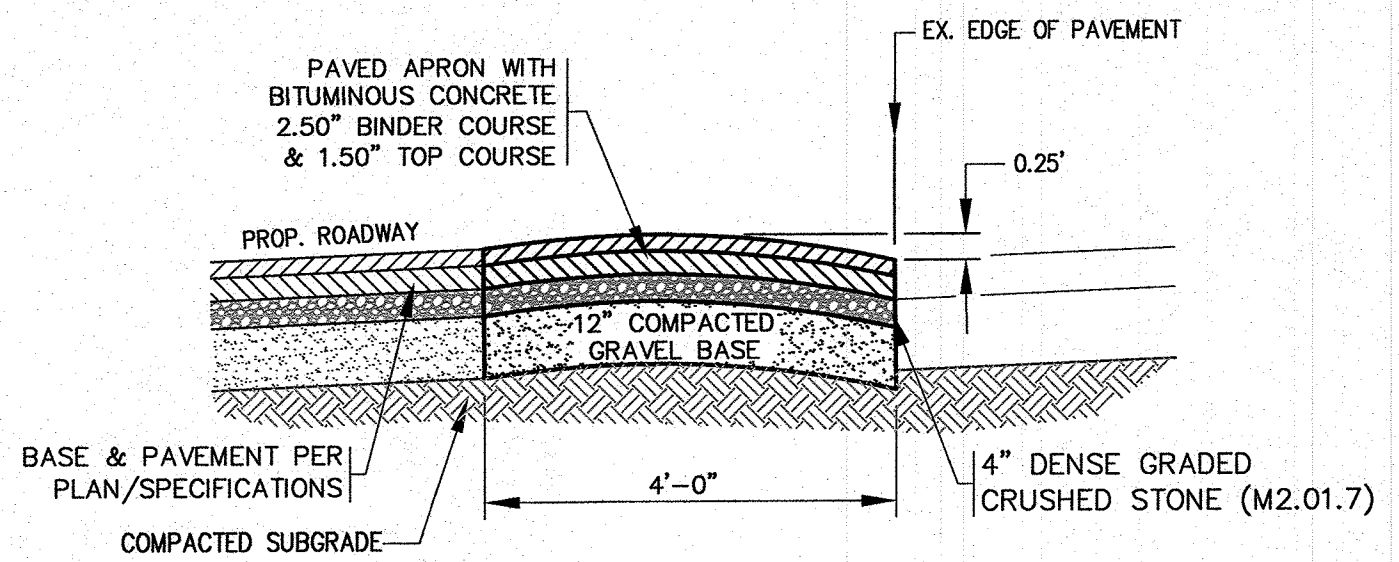
CONCRETE THRUST BLOCK  
N.T.S.



NOTES:

- CURB STOPS AND CORPORATION STOPS MUST BE BRASS AND CONFORM TO THE LATEST REVISION OF AWWA STANDARD C-800.
- PROVIDE 2.5"x57" SERVICE BOX BASE SLIDE WITH CENTERING ROD GUIDE, BUFFALO STYLE.
- ALL PROPOSED WORK, MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL BE APPROVED AND DONE IN ACCORDANCE WITH THE ONSET FIRE DISTRICT & ONSET WATER DEPARTMENTS RULES AND REGULATIONS.
- INSTALL TRACER WIRE AND TERMINATION TRACE WIRE ACCESS BOX PER ONSET FIRE & ONSET WATER DEPARTMENTS SPECIFICATIONS.
- SEE WATER PIPE TRENCH DETAIL FOR BACKFILL MATERIAL.

WATER SERVICE CONNECTION / CURB STOP  
N.T.S.



NOTES:

- ALL PAVEMENT SHALL BE IN ACCORDANCE WITH MassDOT SPEC. SECTION 460 & 401, UNLESS OTHERWISE NOTED, AND SHALL MEET THE TOWN OF WAREHAM 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.
- SEE PLAN FOR LOCATION AND ELEVATIONS.

ROLLED BERM  
N.T.S.

PERMIT SET  
(NOT FOR CONSTRUCTION)

DATE	DRAWN BY	CHECKED BY	JOB NO.	SCALE	REV.	DATE	BY	APPD	DESCRIPTION
AUGUST 25, 2021	JMP	WFM	20-9600	N.T.S.					

APPROVED BY:

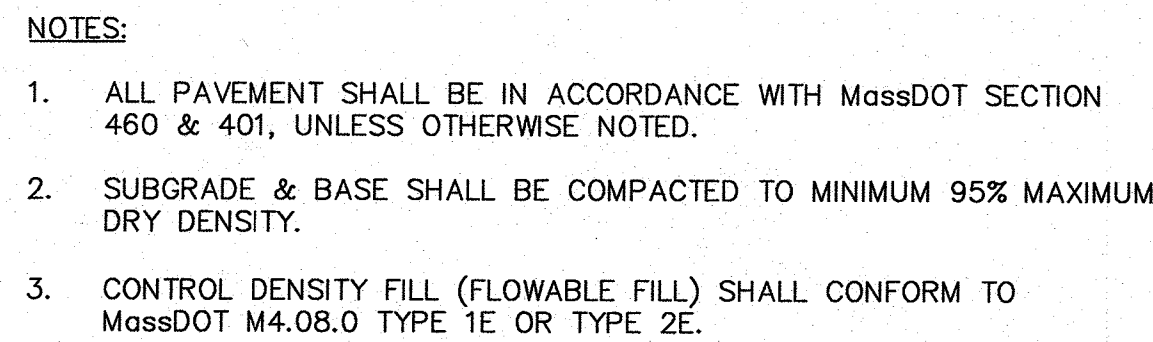
APPROVED BY:

G.A.F. ENGINEERING, INC.  
PROFESSIONAL ENGINEERS & LAND SURVEYORS  
266 MAIN STREET - WAREHAM, MA 02571  
TEL: (508) 295-6600 FAX: (508) 295-6634  
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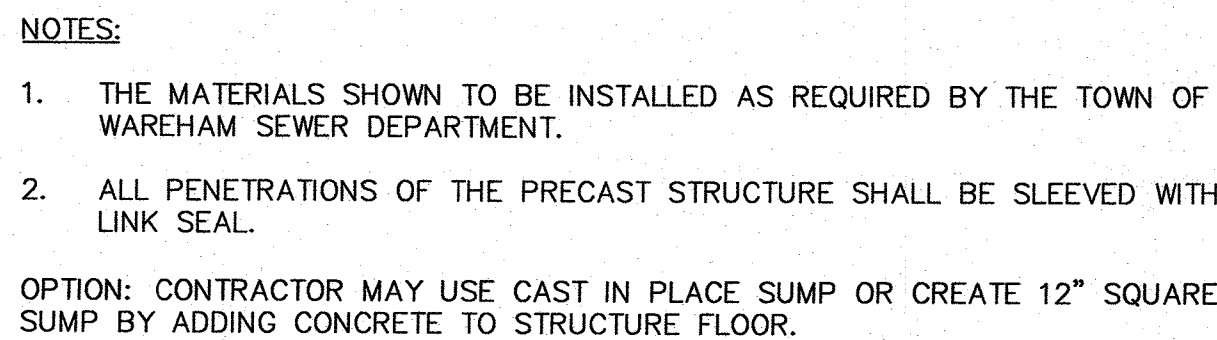
"MARITIME HAVEN"  
DEFINITIVE SUBDIVISION PLAN  
DETAIL SHEET 1  
36, 42, 48 ROBINWOOD ROAD WAREHAM, MA  
PREPARED FOR:  
RESI, LLC

JOB NO.: 20-9600  
DWG. 8 OF 9

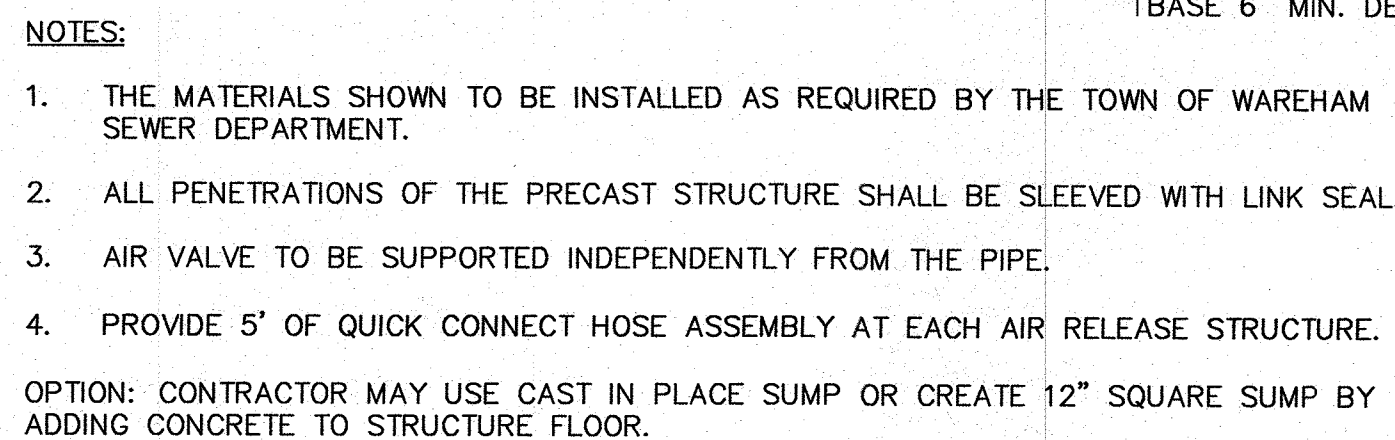




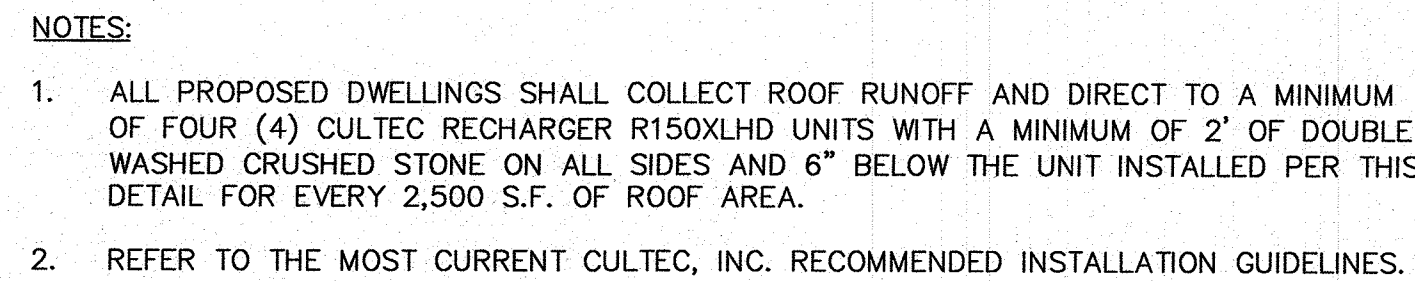
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N.T.S.



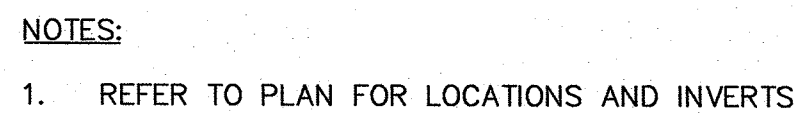
TERMINAL CLEANOUT MANHOLE  
N.T.S.



AIR RELEASE / CLEANOUT MANHOLE  
N.T.S.



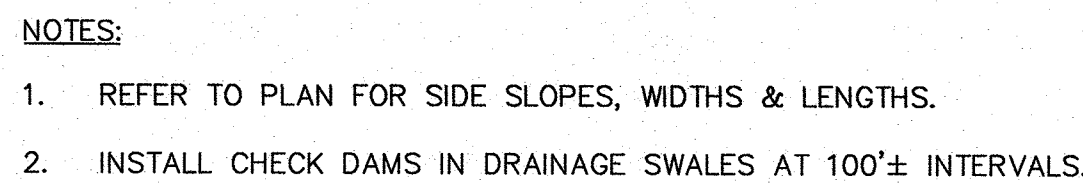
CULTEC R150XLHD DETAIL  
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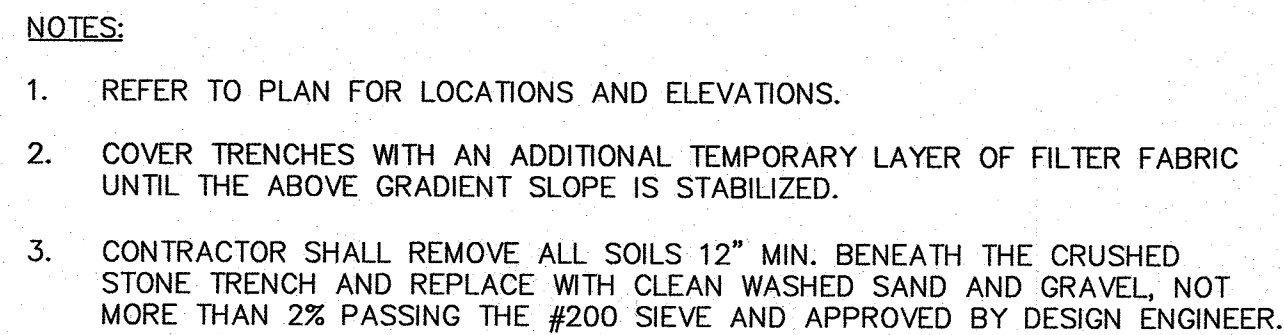
PLAN VIEW



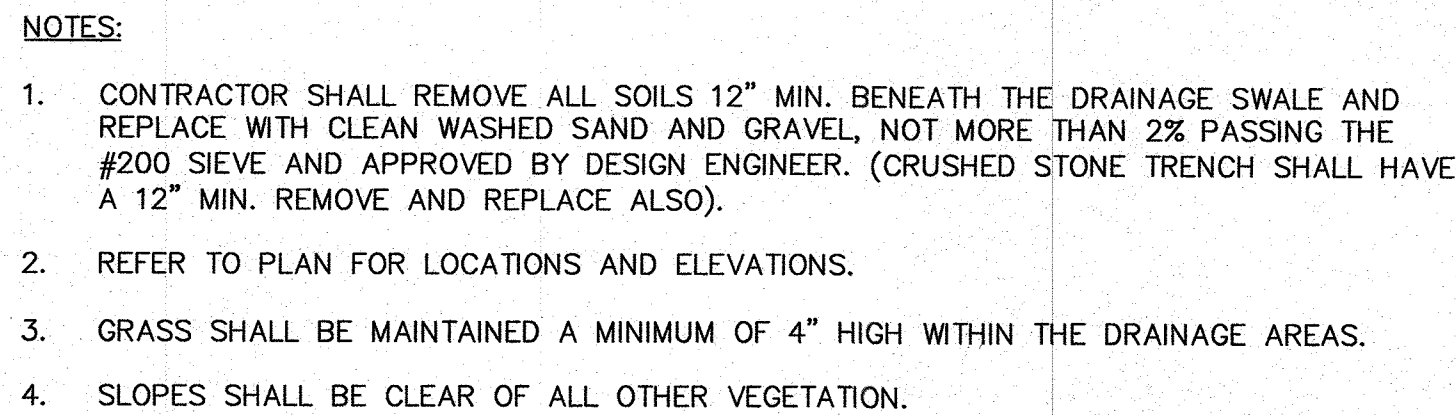
CRUSHED STONE PAD  
N.T.S.



STONE CHECK DAM  
N.T.S.



CRUSHED STONE TRENCH  
N.T.S.



DRAINAGE SWALE DETAIL  
N.T.S.



STREET TREE PLANTING DETAIL  
N.T.S.

[illegible]