

**PLAN REFERENCES:**

- REFER TO A PLAN PREPARED BY DELANO & KEITH, SURVEYORS, ENTITLED "LAND IN WAREHAM TO BE CONVEYED TO ROSALIN V. VOSHELL" DATED JANUARY 13, 1965, SCALE: 1"=100', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 13, PAGE 610.
- REFER TO A PLAN PREPARED BY ROBERT A. BRAMAN, CIVIL ENGINEER & SURVEYOR, ENTITLED "A DIVISION OF LAND PREPARED FOR WAYNE N. BOOTH, CARVER ROAD, WAREHAM, MASS" DATED JUNE 23, 1981, SCALE: 1"=40', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 22, PAGE 575.
- REFER TO A PLAN PREPARED BY G.A.F. ENGINEERING, INC., ENTITLED "APPROVAL NOT REQUIRED PLAN OF LAND ON NORTH CARVER ROAD IN WAREHAM, MA" DATED APRIL 8, 2002, SCALE: 1"=40', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK 45, PAGE 696.
- REFER TO A PLAN PREPARED BY THOMAS A. CHURBUCK, ENTITLED "PLAN OF HIGHWAY IN WAREHAM AND CARVER" DATED MAY 11, 1903, SCALE: 1"=40', AND RECORDED IN THE PLYMOUTH COUNTY REGISTRY OF DEEDS PLAN BOOK C07, PAGE 493.

# LSE HYDRA, LLC

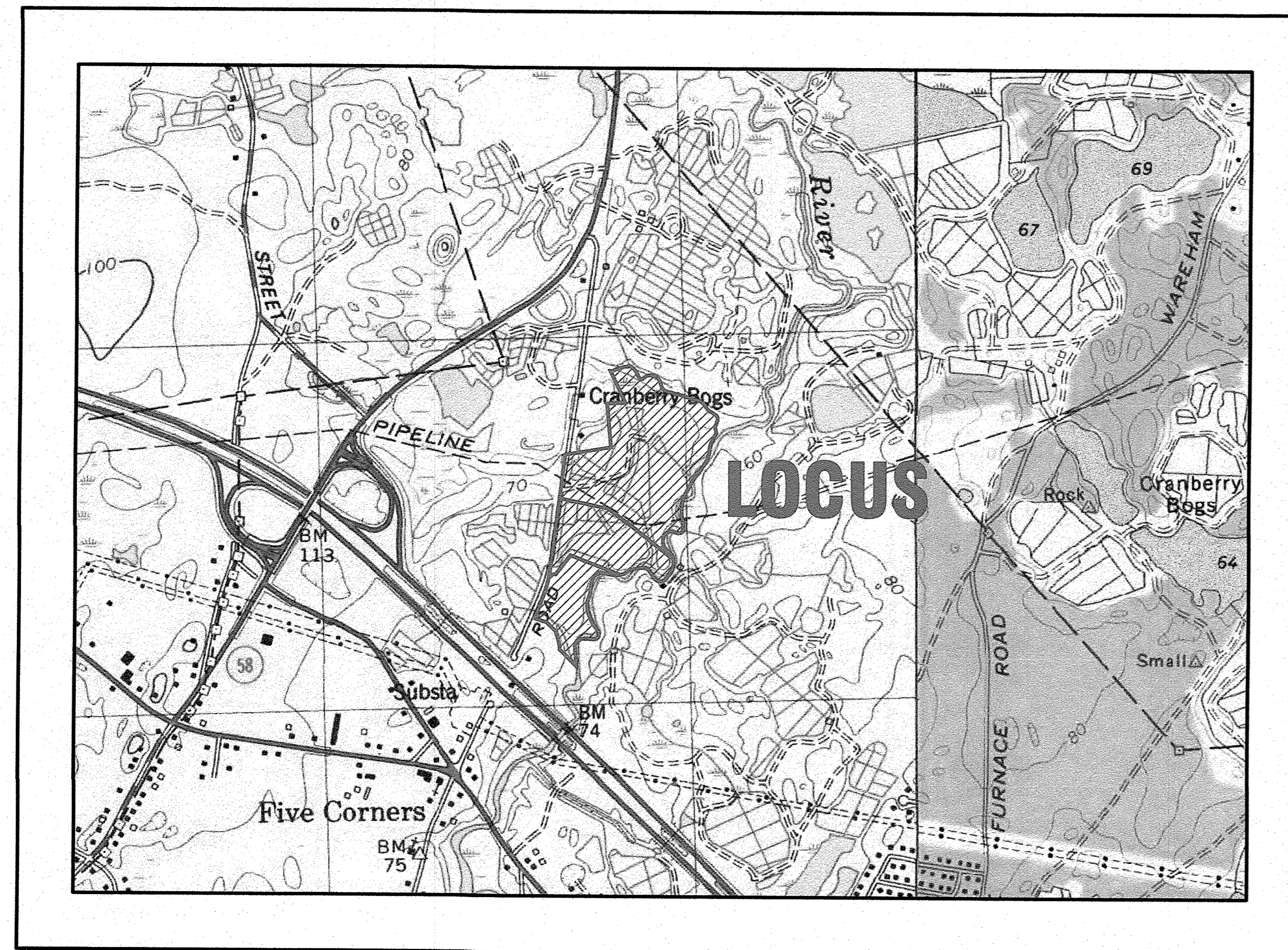
## SITE DEVELOPMENT PLAN

### 36, 44, 48 NORTH CARVER ROAD

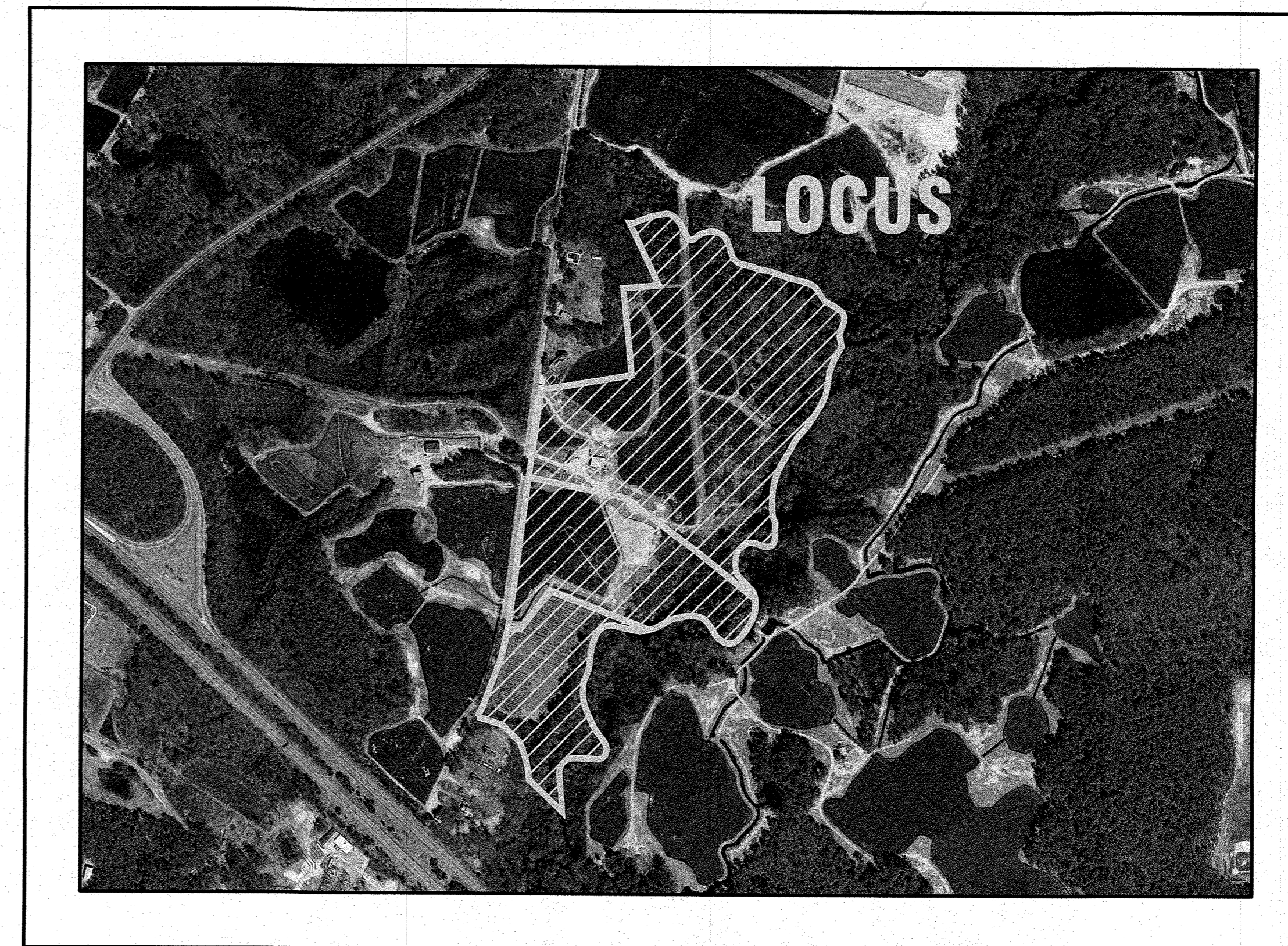
### WAREHAM, MASSACHUSETTS

**OWNER: PAUL E. & LINDA A. RINTA**  
 34 NORTH CARVER ROAD  
 WAREHAM, MA 02576

**APPLICANT: LSE HYDRA, LLC**  
 40 TOWER LANE, SUITE 201  
 AVON, CT 06001



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



— AERIAL OVERVIEW —  
 SCALE: 1"=500'

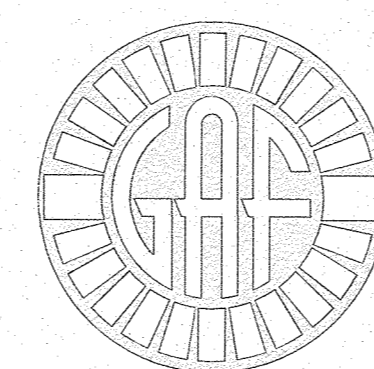
**SITE DATA**

ZONING DISTRICT: R-60  
 ASSESSOR'S MAP: 104  
 ASSESSOR'S LOTS: 1046, VB & VC  
 MIN. LOT AREA: 60,000 S.F.  
 80% CONTIGUOUS UPLAND: 48,000 S.F.  
 MIN. FRONTAGE: 180'  
 MIN. FRONT SETBACK: 50'\*  
 MIN. SIDE & REAR SETBACK: 50'\*  
 MAX. BUILDING HEIGHT: 35'

**ZONING DATA (SECTION 590)**

ZONING TABLE	ALLOWED	PROVIDED
LOT AREA:	60,000 S.F.	47.7± ACRES (TOTAL)
FRONTAGE:	180'	1483.46' (TOTAL)
*FRONT SETBACK:	50'	52.0'
*SIDE SETBACK:	50'	100.5'
*REAR SETBACK:	50'	116'±

\*SETBACKS LISTED ARE FROM PROPERTY LINE TO NEAREST SECTION OF SECURITY FENCE, REFER TO SECTION 590 SOLAR ENERGY GENERATION FACILITIES OF THE TOWN OF WAREHAM ZONING BYLAWS



**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 16, 2021

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**DESCRIPTION:**

- COVER SHEET
- GENERAL NOTES & LEGEND
- SITE OVERVIEW PLAN
- EXISTING CONDITIONS SHEET 1
- EXISTING CONDITIONS SHEET 2
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- EXISTING CONDITIONS SHEET 4
- PROPOSED CONDITIONS SHEET 1
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- DETAIL SHEET

**FLOOD ZONE DATA:**

THE PROJECT IS LOCATED IN FLOOD ZONE X AND ZONE A AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NUMBER 2502300467J, DATED JULY 17, 2012. (FLOOD ZONE A ELEVATION NOT DETERMINED)

DATE: AUGUST 16, 2021	DATE	BY	APP'D	DESCRIPTION
DRAWN BY: JMP				
CHECKED BY: WFM				
JOB NO.: 20-9568	1/31/22	JMP	WFM	PROP. SIDE & REAR SETBACKS
SCALE: AS NOTED	12/14/21	JMP	WFM	PER PEER REVIEW LETTER/TOWN COMMENTS
APPROVED BY:				
APPROVED BY: <i>[Signature]</i>				
<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				
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SITE DEVELOPMENT PLAN COVER SHEET PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT				
WAREHAM, MA				
JOB NO.: 20-9568				
DWG. 1 OF 13				

PERMIT SET  
 (NOT FOR CONSTRUCTION)

**GENERAL NOTES:**

- POSSESSION AND USE OF THE MATERIAL CONTAINED ON THIS PLAN SET IS GRANTED ONLY IN CONNECTION WITH ITS USE AS IT RELATES TO THE TITLED PROJECT, ANY OTHER USE, REPRODUCTION OR DISCLOSURE OF THE INFORMATION CONTAINED HEREON IS EXPRESSLY PROHIBITED WITHOUT THE WRITTEN CONSENT OF G.A.F. ENGINEERING, INC.
- 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.
- EXISTING CONDITIONS INFORMATION IS BASED ON ACTUAL FIELD SURVEY, PRIVATE UTILITY PLANS, AND OTHER AVAILABLE SOURCES. FIELD SURVEY WAS PERFORMED BY G.A.F. ENGINEERING, INC., ON VARIOUS DATES AND MOST RECENTLY IN APRIL OF 2021.
- 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. THE CONTRACTOR SHALL ALSO COORDINATE AND SCHEDULE ALL REQUIRED INSPECTIONS. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE OWNER AND ENGINEER AS REQUIRED.
- THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
- 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.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS DISCOVERED IN THE FIELD.
- 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.
- ALL CONTRACTORS ARE RESPONSIBLE FOR OBTAINING AN EXCAVATION AND TRENCH PERMIT PURSUANT TO 520 CMR 14.00 AS APPLICABLE PRIOR TO THE START OF CONSTRUCTION.

**CONSTRUCTION NOTES:**

- IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
  - 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.
  - 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.
  - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
  - ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.
  - THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
  - ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
  - 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.
  - ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
  - SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
  - 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.
- | 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.
- ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.
  - ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.
  - DEWATERING IF REQUIRED SHALL BE DIRECTED TO A 5' MIN. DIAMETER RING OF HAYBALES OR A DIRTBAG. CONTRACTOR SHALL PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK.
  - SOLAR PANELS SHALL BE INSTALLED PER MANUFACTURER INSTALLATION GUIDELINES. ALL INSTALLATION SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.

PERMIT SET  
(NOT FOR CONSTRUCTION)

**WETLAND NOTES:**

- ALL WETLAND FLAG LOCATIONS DEPICTED ON THESE PLANS WERE DELINEATED IN THE FIELD BY CARON ENVIRONMENTAL CONSULTING ON MARCH 12, 2020 AND DECEMBER 22, 2020 AND WERE FIELD LOCATED BY G.A.F. ENGINEERING, INC. IN OCTOBER AND DECEMBER 2020.
- THE EDGE OF BORDERING VEGETATED WETLANDS (BVW) ARE DELINEATED WITH FLAGS A1 TO A112. FLAGS B1 TO B9 DELINEATE AN INTERMITTENT STREAM AND ANY BVW ASSOCIATED WITH IT. SEE OVERVIEW PLAN FOR LOCATIONS.
- THE ANNUAL HIGH WATER (AHW) MARK OF THE WEWEANTIC RIVER IS DELINEATED WITH FLAGS AHW1 TO AHW90. SEE OVERVIEW PLAN FOR LOCATIONS.

**EROSION CONTROL NOTES:**

- 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.
- 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.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- 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.
- 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.
- SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE. MAINTAIN DUST CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 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.
- 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.
  - EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
  - THE DRAINAGE 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.
  - 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.
  - 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 CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY THE OWNER OR OWNER'S AGENT ON THE SITE. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.
- 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. POTENTIAL PROBLEMS THAT SHALL BE CHECKED INCLUDE: SUBSIDENCE, EROSION, CRACKING OR TREE GROWTH ON THE EMBANKMENT, SEDIMENT ACCUMULATION, 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.
  - 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 FILLED 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.
  - ALL VEGETATION WITHIN THE SOLAR ARRAY, UNDER AND AROUND ALL PANELS AND WITHIN THE SECURITY FENCE SHALL BE MOWED PERIODICALLY AS NEEDED.

**SOLAR ENERGY EQUIPMENT OPERATION AND MAINTENANCE PLAN:**

- PERIODIC INSPECTIONS OF THE PERIMETER FENCE, SOLAR ARRAY, AND CONNECTING INFRASTRUCTURE WILL BE MADE BY THE MAINTENANCE CONTRACTOR.
- REPAIRS TO SECURITY FENCE AND/OR GATES SHALL BE MADE AS NEEDED. IF ANY CHANGES ARE MADE TO THE ACCESS GATES OR THE MAIN ENTRANCE GATE THE OWNER SHALL BE RESPONSIBLE TO COORDINATE WITH THE FIRE DEPARTMENT. FENCE SIGNAGE SHALL BE REPLACED IF NEEDED.
- REPAIRS TO SOLAR ENERGY COLLECTING AND DISTRIBUTION EQUIPMENT SHALL BE MADE AS NEEDED.
- REPAIRS TO OR REPLACEMENT OF ANY ELECTRICAL EQUIPMENT SHALL BE MADE AS NEEDED.
- REPAIRS TO OR REPLACEMENT OF UTILITY POLES SHALL BE MADE AS NEEDED.
- GRAVEL ACCESS ROADS SHALL BE MAINTAINED.
- FOR COMPLETE OPERATION AND MAINTENANCE PLAN REFER TO THE OPERATIONS AND MAINTENANCE PLAN PREPARED BY LSE HYDRA, LLC.
- REFER TO A EMERGENCY RESPONSE PLAN PREPARED BY LSE HYDRA, LLC.

**ACCESS ROADWAY MAINTENANCE REQUIREMENTS:**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY POTHoles OR DEGRADATION OF THE GRAVEL ROADS AND/OR BOG ROADS THROUGHOUT THE CONSTRUCTION PERIOD OF THE PROJECT.
- UPON COMPLETION OF THE SOLAR ARRAY INSTALLATION, THE CONTRACTOR SHALL REPAIR ANY POTHoles OR DAMAGED AREAS OF THE GRAVEL ACCESS ROAD AND/OR BOG ROADS.
- LSE HYDRA, LLC AND IT'S SUCCESSORS AND ASSIGNS WILL BE RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF THE GRAVEL ACCESS ROAD TO THE EXTENT NECESSARY TO PROVIDE ADEQUATE ACCESS FOR MAINTENANCE OF THE SOLAR ARRAY AND FOR THE BENEFIT OF PUBLIC SAFETY VEHICLES.
- SNOW REMOVAL SHALL OCCUR AFTER ALL SNOW EVENTS OF 8" OR MORE AT ALL SITE ACCESS POINTS AND AROUND ALL GRAVEL ACCESS ROADS. SNOW PLOWING SHALL BE COMPLETED WITHIN 24 HOURS OF SUCH SNOW EVENTS. NO SODIUM CHLORIDE, ROCK SALT OR CHEMICALS OF ANY KIND MAY BE USED ONSITE. INSIDE THE ARRAY AREA, SNOW WILL BE REMOVED AT THE END OF EACH SNOW STORM EVENT ONCE THE AMOUNT ACCUMULATED HAS REACHED 12" IN DEPTH.

**ABBREVIATIONS**

AC	ASBESTIC CONCRETE
ADS	ADVANCED DRAINAGE SYSTEM
APPROX.	APPROXIMATE
BC	BOTTOM OF CURB
BIT. CONC.	BITUMINOUS CONCRETE
BLDRS	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.	CLEANOUT
C.L.D.I.	CEMENT LINED DUCTILE IRON
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
C.T.B.	CONCRETE THRUST BLOCK
DIA	DIAMETER
DMH	DRAIN MANHOLE
D.I.	DUCTILE IRON
DCE	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
MINUM	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
RAP	RECYCLED ASPHALT PRODUCT
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
UP	UTILITY POLE
UE	UNDERGROUND ELECTRIC
VGC	VERTICAL GRANITE CURB
W	WATER
WG,WV	WATER GATE, WATER VALVE
WQS	WATER QUALITY STRUCTURE

EXISTING	DESC.	PROPOSED
	CONTOURS	
	SPOT GRADES	
	WETLANDS	
	TOP OF RIVER BANK	
	50' NO ACTIVITY ZONE	
	100' BUFFER ZONE	
	200' RIVERFRONT AREA	
	F.E.M.A. FLOOD ZONE	
	DRAIN LINE	
	CATCH BASIN (CB)	
	DRAIN MANHOLE (DMH)	
	ELECTRIC MANHOLE (EMH)	
	UNDERGROUND UTILITIES	
	OVERHEAD WIRES	
	UTILITY POLE	
	GUY POLE	
	WATER GATE VALVE	
	WATER SHUTOFF/CURB STOP	
	HYDRANT	
	POST INDICATOR VALVE	
	WATER LINE	
	FIRE PROTECTION LINE	
	SEWER MANHOLE (SMH)	
	SEWER LINE	
	TREE/BRUSH LINE	
	LIGHT POST	
	GAS LINE	
	GAS GATE/VALVE	
	GAS METER	
	SIGN	
	FENCE BOUND	
	TEST PIT/PERC TEST	
	SILT FENCE	
	GUARD RAIL	
	FLARED END SECTION	
	STONE WALL	
	WELL	

DATE: AUGUST 16, 2021

DRAWN BY: J.M.P.

CHECKED BY: W.F.M.

JOB NO.: 20-9568

SCALE: N.T.S.

APPROVED BY:

DATE: 1/31/22

DATE: 12/14/21

REV. DATE

DESCRIPTION

NO CHANGE THIS SHEET

PER PEER REVIEW LETTER/TOWN COMMENTS

BY: W.F.M.

DATE: 1/31/22

DATE: 12/14/21

REV. DATE

DESCRIPTION

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

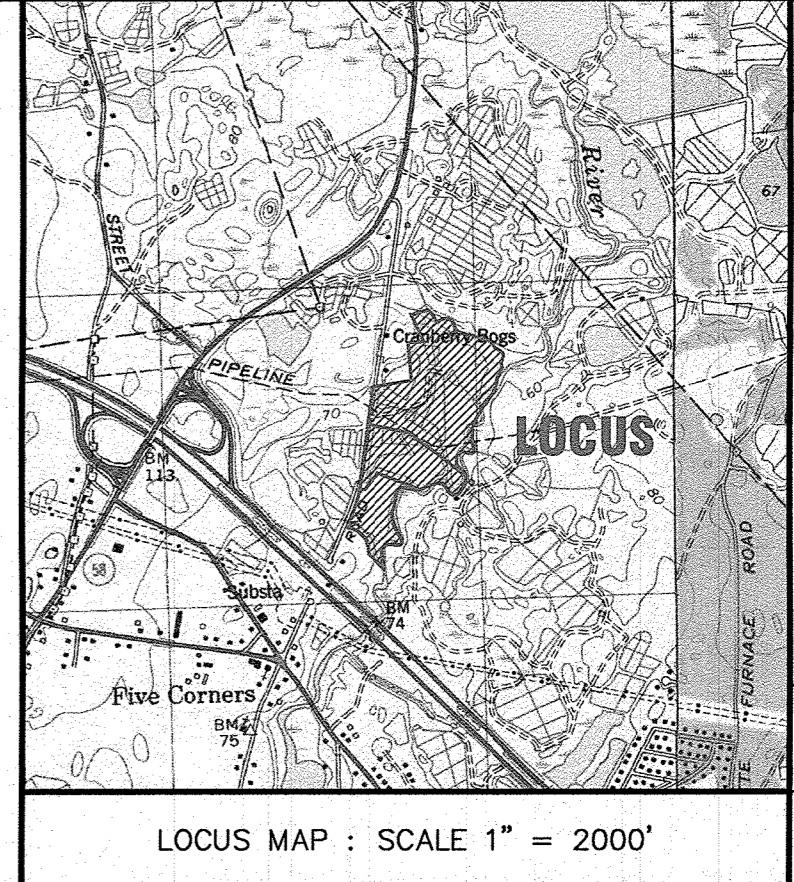
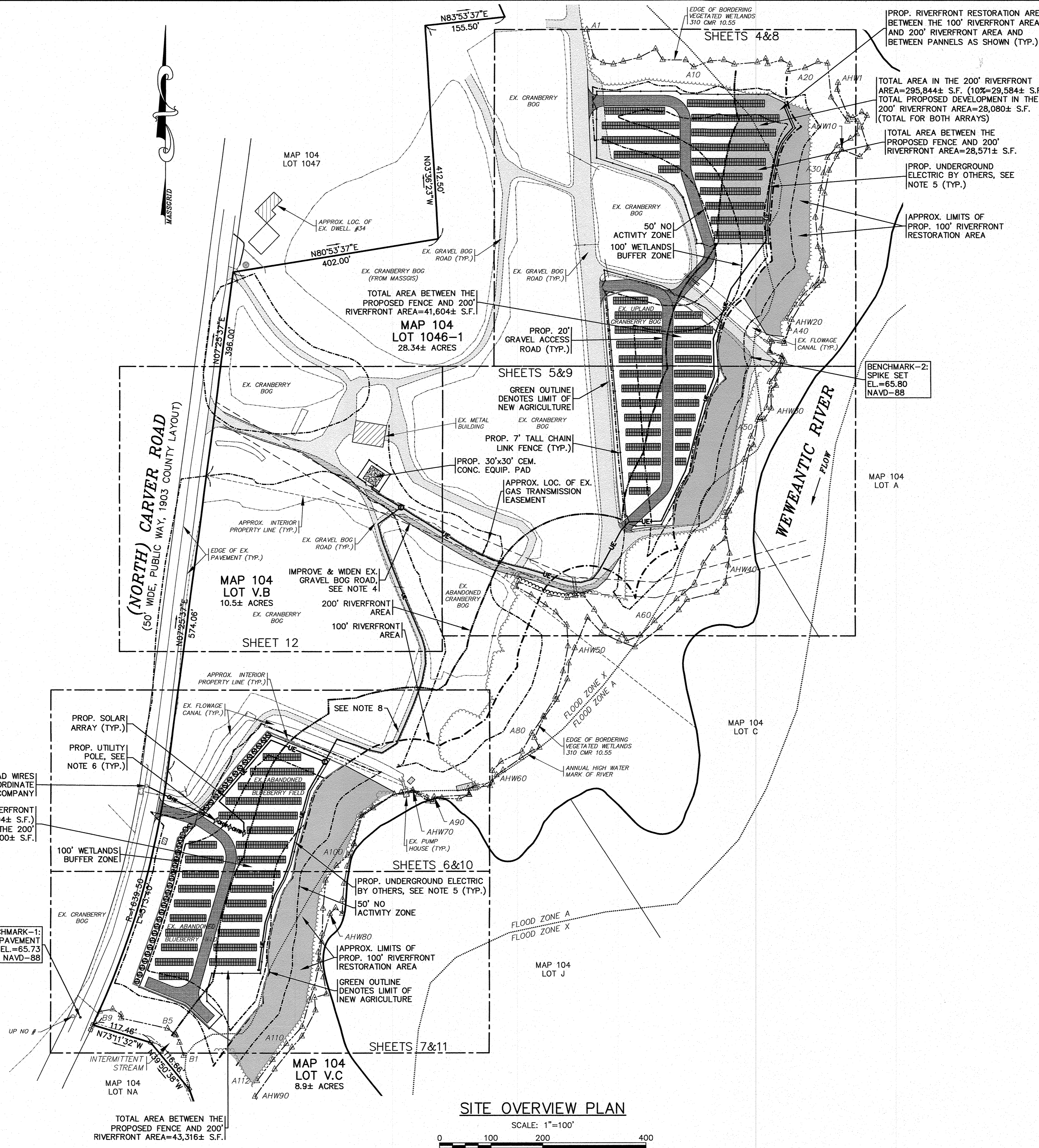
**SITE DEVELOPMENT PLAN**  
**GENERAL NOTES & LEGEND**  
WAREHAM, MA  
36, 44, 48 NORTH CARVER ROAD

PREPARED FOR:  
**LSE HYDRA, LLC**  
40 TOWER LANE, SUITE 201  
AVON, CT

JOB NO.: 20-9568  
DWG. 2 OF 13

**NOTES:**

- ALL WETLAND FLAG LOCATIONS DEPICTED ON THESE PLANS WERE DELINEATED IN THE FIELD BY CARON ENVIRONMENTAL CONSULTING ON MARCH 12, 2020 AND DECEMBER 22, 2020 AND WERE FIELD LOCATED BY G.A.F. ENGINEERING, INC. IN OCTOBER AND DECEMBER 2020.
- THE EDGE OF BORDERING VEGETATED WETLANDS (BVW) ARE DELINEATED WITH FLAGS A1 TO A112. FLAGS B1 TO B9 DELINEATE AN INTERMITTENT STREAM AND ANY BVW ASSOCIATED WITH IT.
- THE ANNUAL HIGH WATER (AHW) MARK OF THE WEWEANTIC RIVER IS DELINEATED WITH FLAGS AHW1 TO AHW90.
- THE EXISTING GRAVEL BOG ROAD SHALL BE IMPROVED, REGRADED AND WIDENED TO A WIDTH OF 20' WHERE SHOWN ON THE PLANS. WHERE REQUIRED THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING GRAVEL, TOP SOIL AND SUBSOIL TO A DEPTH REQUIRED TO RECEIVE GRAVEL ROAD CROSS SECTION (SEE SHEET 13 FOR DETAIL).
- REFER TO ELECTRICAL PLANS BY OTHERS FOR FINAL LOCATIONS AND CONNECTION POINTS OF ALL PROPOSED UNDERGROUND ELECTRIC LINES.
- FINAL LOCATIONS & CONFIGURATION OF PROPOSED UTILITY POLES SHALL BE DETERMINED BY LOCAL UTILITY COMPANY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY POTHoles OR DAMAGED AREAS OF EXISTING GRAVEL ROADS AND/OR BOG ROADS.
- THE CONTRACTOR SHALL RESTORE EXISTING GRAVEL ROAD AND/OR BOG ROADS TO EXISTING LINE AND GRADE AFTER THE INSTALLATION OF THE PROPOSED UNDERGROUND ELECTRIC. PROVIDE AND MAINTAIN SILT FENCE EROSION CONTROL BARRIER ON BOTH SIDES OF GRAVEL ROAD DURING UNDERGROUND ELECTRIC INSTALLATION.



REV	DATE	BY	APP'D	DESCRIPTION
1	12/14/21	JMP		PER PEER REVIEW LETTER/TOWN COMMENTS
2	1/31/22	JMP		INCREASED RIVERFRONT RESTORATION AREA, REMOVED ALL PROP. PANELS & FENCE FROM 100' RIVERFRONT AREA, MISC. NOTES

DATE: AUGUST 16, 2021  
 DRAWN BY: JMP  
 CHECKED BY: WFM  
 JOB NO.: 20-9568  
 SCALE: 1" = 100'

APPROVED BY: [Signature]  
 WILLIAM F. MODER  
 LICENSE NO. 2838

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

**SITE DEVELOPMENT PLAN**  
**SITE OVERVIEW PLAN**  
 PREPARED FOR:  
**LSE HYDRA, LLC**  
 40 TOWER LANE, SUITE 201  
 AVON, CT

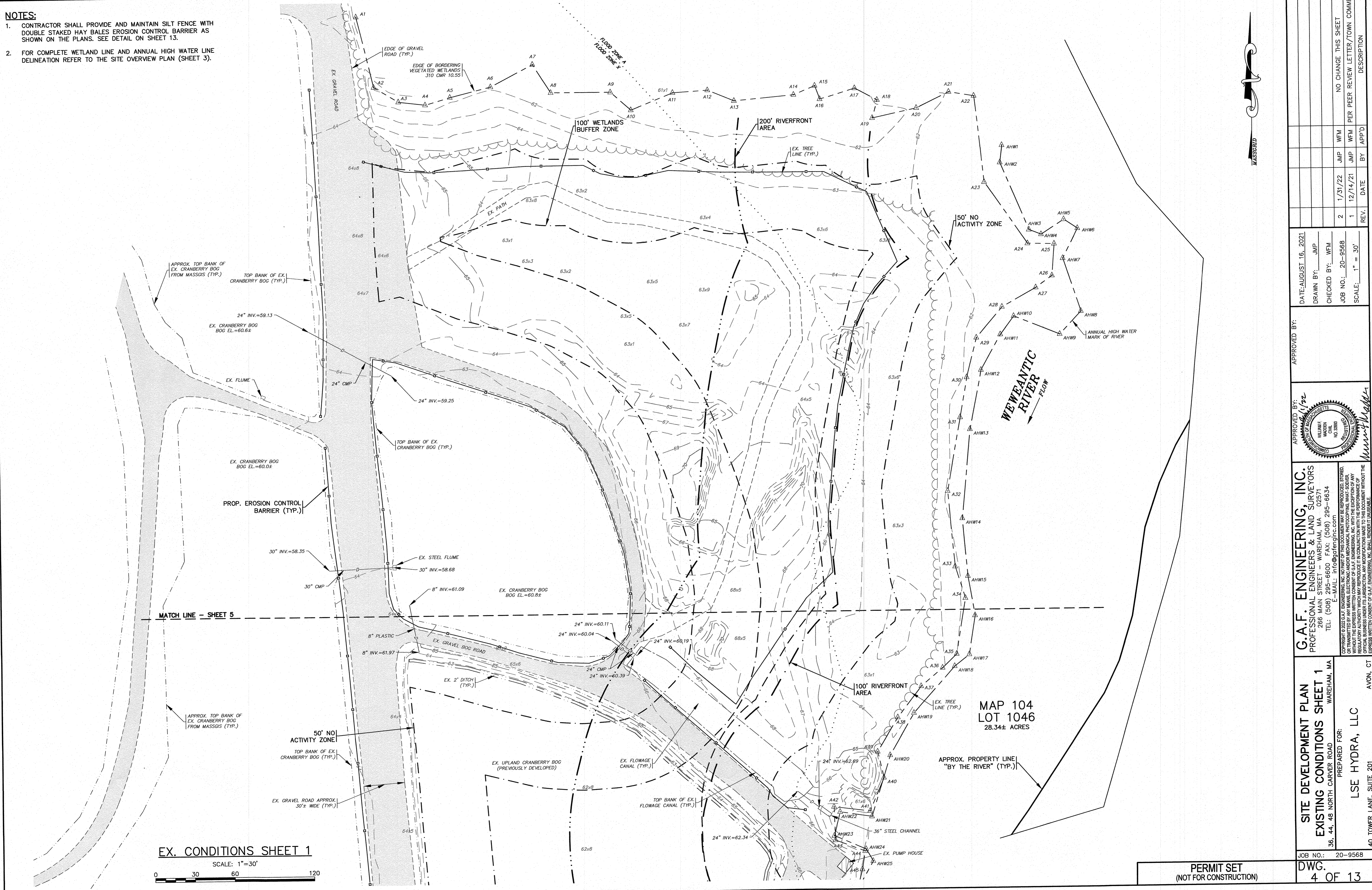
JOB NO.: 20-9568  
 DWG. 3 OF 13

PERMIT SET  
 (NOT FOR CONSTRUCTION)

**SITE OVERVIEW PLAN**  
 SCALE: 1"=100'

**NOTES:**

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
- FOR COMPLETE WETLAND LINE AND ANNUAL HIGH WATER LINE DELINEATION REFER TO THE SITE OVERVIEW PLAN (SHEET 3).



**EX. CONDITIONS SHEET 1**  
SCALE: 1"=30'

MATCH LINE - SHEET 5

MAP 104  
LOT 1046  
28.34± ACRES

APPROX. PROPERTY LINE  
"BY THE RIVER" (TYP.)

DATE: AUGUST 16, 2021		APPROVED BY:	
DRAWN BY: JMP		APPROVED BY: [Signature]	
CHECKED BY: WFM		APPROVED BY: [Signature]	
JOB NO.: 20-9568		APPROVED BY: [Signature]	
SCALE: 1" = 30'		APPROVED BY: [Signature]	
REV.	DATE	BY	DESCRIPTION
2	1/31/22	JMP	NO CHANGE THIS SHEET
1	12/14/21	JMP	PER PEER REVIEW LETTER/TOWN COMMENTS
DATE: AUGUST 16, 2021		APPROVED BY:	
DRAWN BY: JMP		APPROVED BY: [Signature]	
CHECKED BY: WFM		APPROVED BY: [Signature]	
JOB NO.: 20-9568		APPROVED BY: [Signature]	
SCALE: 1" = 30'		APPROVED BY: [Signature]	
REV.	DATE	BY	DESCRIPTION
2	1/31/22	JMP	NO CHANGE THIS SHEET
1	12/14/21	JMP	PER PEER REVIEW LETTER/TOWN COMMENTS
DATE: AUGUST 16, 2021		APPROVED BY:	
DRAWN BY: JMP		APPROVED BY: [Signature]	
CHECKED BY: WFM		APPROVED BY: [Signature]	
JOB NO.: 20-9568		APPROVED BY: [Signature]	
SCALE: 1" = 30'		APPROVED BY: [Signature]	
REV.	DATE	BY	DESCRIPTION
2	1/31/22	JMP	NO CHANGE THIS SHEET
1	12/14/21	JMP	PER PEER REVIEW LETTER/TOWN COMMENTS

**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

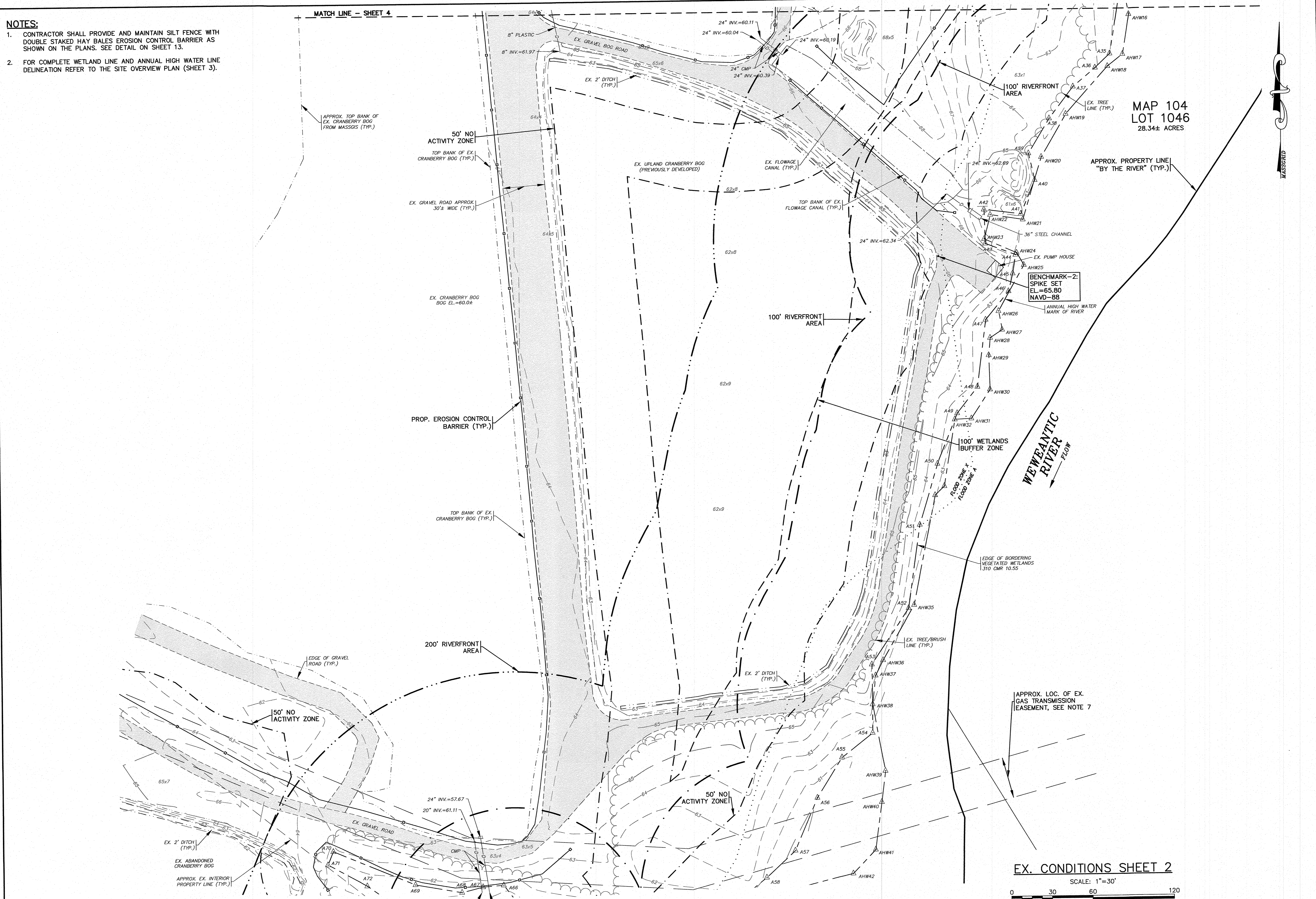
**LSE HYDRA, LLC**  
36, 44, 48 NORTH CARVER ROAD  
WAREHAM, MA  
PREPARED FOR:

JOB NO.: 20-9568  
DWG. 4 OF 13

PERMIT SET  
(NOT FOR CONSTRUCTION)

**NOTES:**

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
- FOR COMPLETE WETLAND LINE AND ANNUAL HIGH WATER LINE DELINEATION REFER TO THE SITE OVERVIEW PLAN (SHEET 3).



MAP 104  
LOT 1046  
28.34± ACRES

APPROX. PROPERTY LINE  
"BY THE RIVER" (TYP.)

WEAVENTIC RIVER  
FLOOD

EX. CONDITIONS SHEET 2

SCALE: 1"=30'



PERMIT SET  
(NOT FOR CONSTRUCTION)

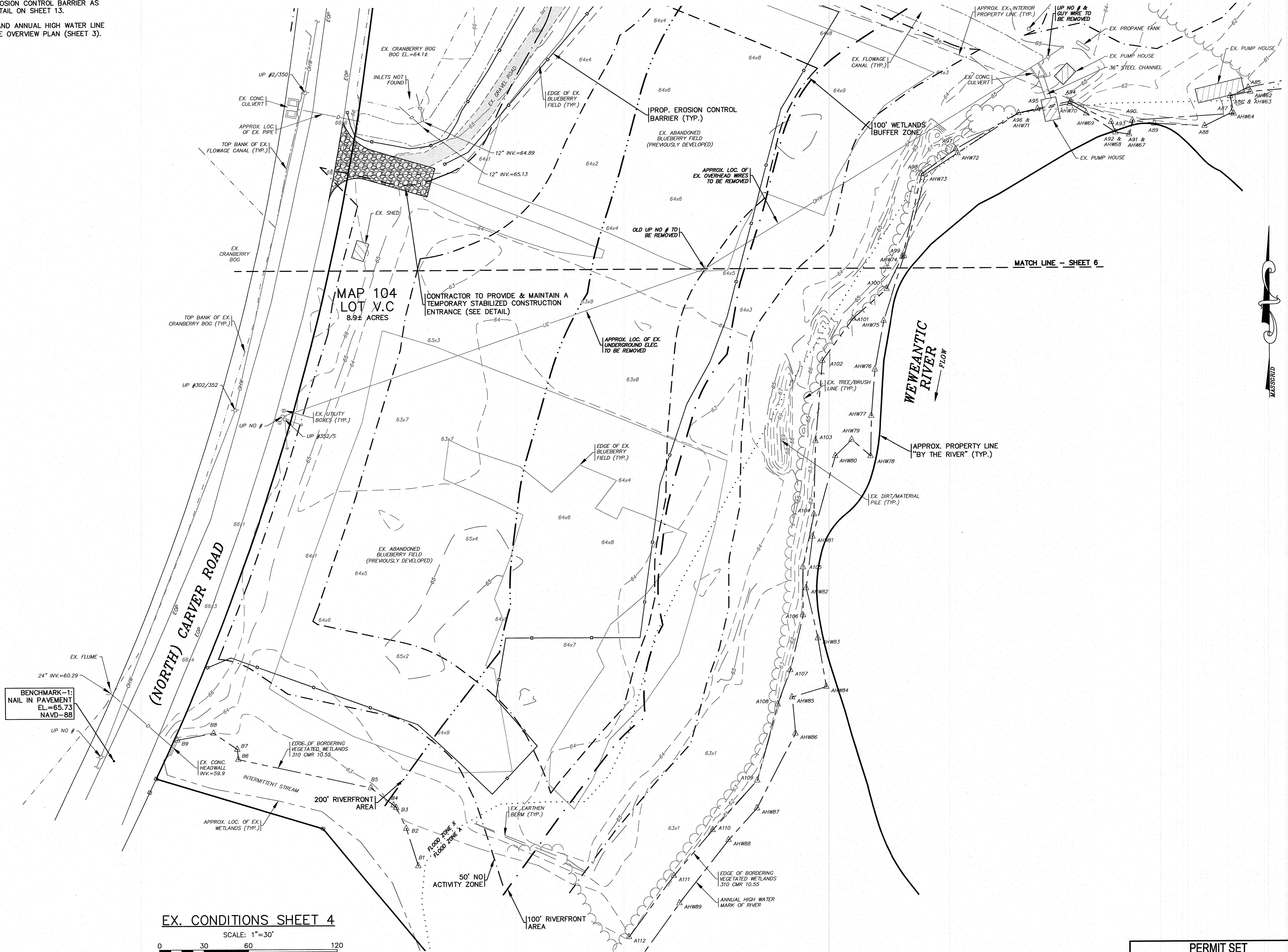
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DATE: AUGUST 16, 2021		APPROVED BY: <i>[Signature]</i>	
DRAWN BY: JMP		DATE: 02/14/22	
CHECKED BY: WFM		APPROVED BY: <i>[Signature]</i>	
JOB NO.: 20-9568		DATE: 12/14/21	
SCALE: 1" = 30'		REV. BY: APP'D	
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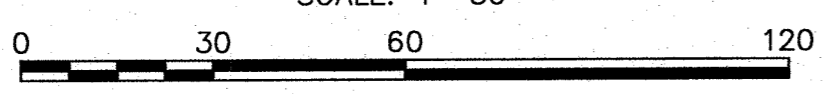
**NOTES:**

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
- FOR COMPLETE WETLAND LINE AND ANNUAL HIGH WATER LINE DELINEATION REFER TO THE SITE OVERVIEW PLAN (SHEET 3).



BENCHMARK-1  
NAIL IN PAVEMENT  
EL.=65.73  
NAVD=88

EX. CONDITIONS SHEET 4  
SCALE: 1"=30'



DATE: AUGUST 16, 2021		DRAWN BY: JMP		CHECKED BY: WFM		JOB NO.: 20-9568		SCALE: 1" = 30'	
APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 TEL: (508) 295-6800 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com		LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT		DATE: 1/31/22		DATE: 12/14/21		DATE: 1/31/22	
SITE DEVELOPMENT PLAN EXISTING CONDITIONS SHEET 4 36, 44, 48 NORTH CARVER ROAD WAREHAM, MA		PREPARED FOR: LSE HYDRA, LLC		REV. 2		REV. 1		REV. 1	
DWG. 7 OF 13		PERMIT SET (NOT FOR CONSTRUCTION)		NO CHANGE THIS SHEET		PER PEER REVIEW LETTER/TOWN COMMENTS		DESCRIPTION	

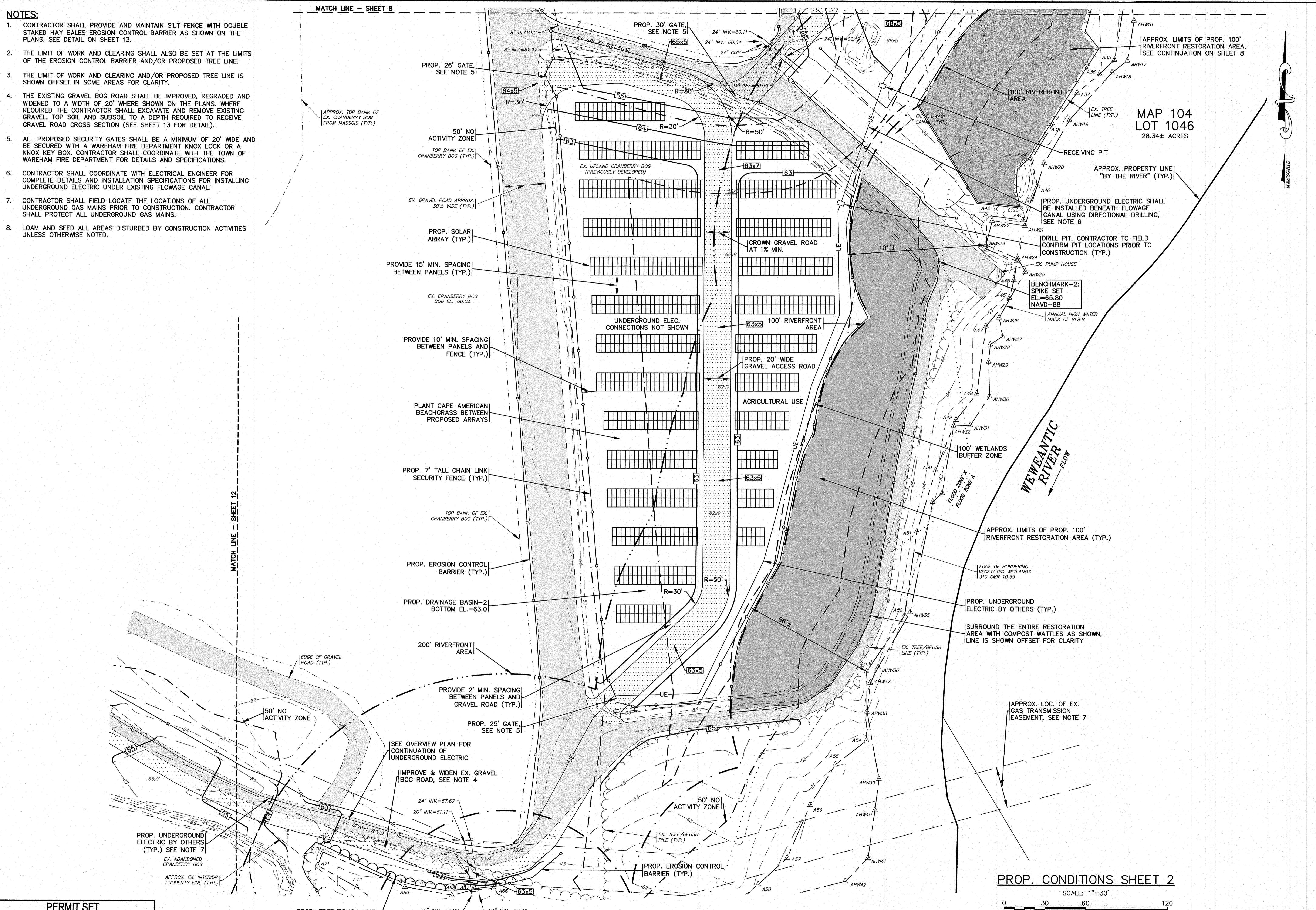
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**NOTES:**

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
- THE LIMIT OF WORK AND CLEARING SHALL ALSO BE SET AT THE LIMITS OF THE EROSION CONTROL BARRIER AND/OR PROPOSED TREE LINE.
- THE LIMIT OF WORK AND CLEARING AND/OR PROPOSED TREE LINE IS SHOWN OFFSET IN SOME AREAS FOR CLARITY.
- THE EXISTING GRAVEL BOG ROAD SHALL BE IMPROVED, REGRADED AND WIDENED TO A WIDTH OF 20' WHERE SHOWN ON THE PLANS, WHERE REQUIRED THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING GRAVEL, TOP SOIL AND SUBSOIL TO A DEPTH REQUIRED TO RECEIVE GRAVEL ROAD CROSS SECTION (SEE SHEET 13 FOR DETAIL).
- ALL PROPOSED SECURITY GATES SHALL BE A MINIMUM OF 20' WIDE AND BE SECURED WITH A WAREHAM FIRE DEPARTMENT KNOX LOCK OR A KNOX KEY BOX. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM FIRE DEPARTMENT FOR DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR COMPLETE DETAILS AND INSTALLATION SPECIFICATIONS FOR INSTALLING UNDERGROUND ELECTRIC UNDER EXISTING FLOWAGE CANAL.
- CONTRACTOR SHALL FIELD LOCATE THE LOCATIONS OF ALL UNDERGROUND GAS MAINS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UNDERGROUND GAS MAINS.
- LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED.



MAP 104  
LOT 1046  
28.34± ACRES

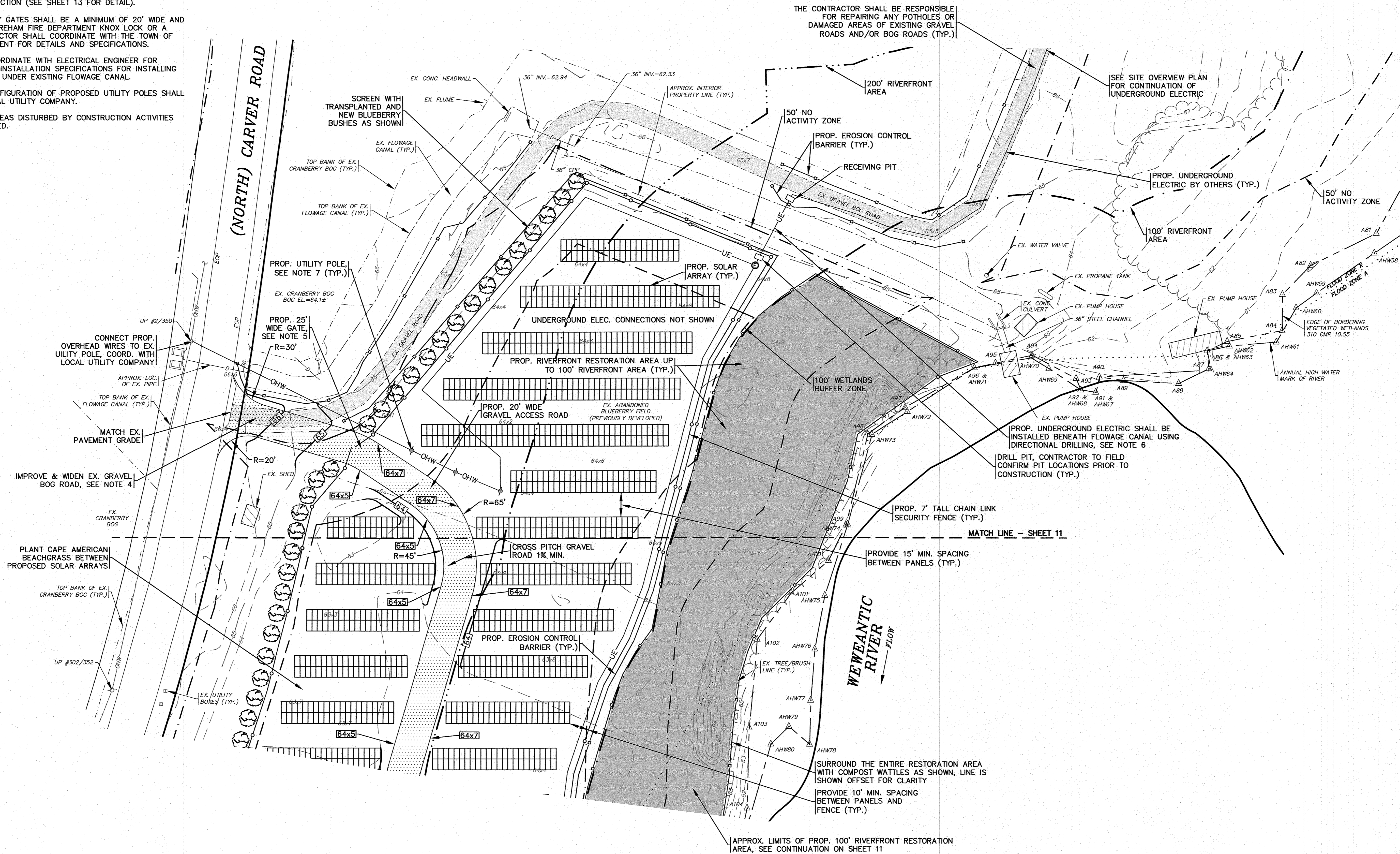
PROP. CONDITIONS SHEET 2  
SCALE: 1" = 30'

DATE: AUGUST 16, 2021		DRAWN BY: JMP		CHECKED BY: WFM		JOB NO.: 20-9568		SCALE: 1" = 30'	
APPROVED BY:		APPROVED BY:		APPROVED BY:		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@gafengr.com		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@gafengr.com		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@gafengr.com		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@gafengr.com		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@gafengr.com	
SITE DEVELOPMENT PLAN PROPOSED CONDITIONS SHEET 2 36, 44, 48 NORTH CARYER ROAD WAREHAM, MA		SITE DEVELOPMENT PLAN PROPOSED CONDITIONS SHEET 2 36, 44, 48 NORTH CARYER ROAD WAREHAM, MA		SITE DEVELOPMENT PLAN PROPOSED CONDITIONS SHEET 2 36, 44, 48 NORTH CARYER ROAD WAREHAM, MA		SITE DEVELOPMENT PLAN PROPOSED CONDITIONS SHEET 2 36, 44, 48 NORTH CARYER ROAD WAREHAM, MA		SITE DEVELOPMENT PLAN PROPOSED CONDITIONS SHEET 2 36, 44, 48 NORTH CARYER ROAD WAREHAM, MA	
PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT		PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT		PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT		PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT		PREPARED FOR: LSE HYDRA, LLC 40 TOWER LANE, SUITE 201 AVON, CT	
JOB NO.: 20-9568		JOB NO.: 20-9568		JOB NO.: 20-9568		JOB NO.: 20-9568		JOB NO.: 20-9568	
DWG. NO. 9 OF 13		DWG. NO. 9 OF 13		DWG. NO. 9 OF 13		DWG. NO. 9 OF 13		DWG. NO. 9 OF 13	

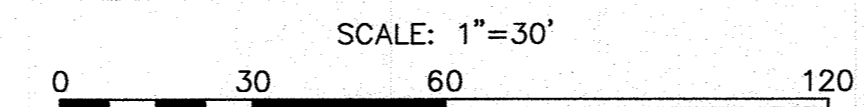
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**NOTES:**

1. CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
2. THE LIMIT OF WORK AND CLEARING SHALL ALSO BE SET AT THE LIMITS OF THE EROSION CONTROL BARRIER AND/OR PROPOSED TREE LINE.
3. THE LIMIT OF WORK AND CLEARING AND/OR PROPOSED TREE LINE IS SHOWN OFFSET IN SOME AREAS FOR CLARITY.
4. THE EXISTING GRAVEL BOG ROAD SHALL BE IMPROVED, REGRADED AND WIDENED TO A WIDTH OF 20' WHERE SHOWN ON THE PLANS. WHERE REQUIRED THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING GRAVEL, TOP SOIL AND SUBSOIL TO A DEPTH REQUIRED TO RECEIVE GRAVEL ROAD CROSS SECTION (SEE SHEET 13 FOR DETAIL).
5. ALL PROPOSED SECURITY GATES SHALL BE A MINIMUM OF 20' WIDE AND BE SECURED WITH A WAREHAM FIRE DEPARTMENT KNOX LOCK OR A KNOX KEY BOX. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM FIRE DEPARTMENT FOR DETAILS AND SPECIFICATIONS.
6. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR COMPLETE DETAILS AND INSTALLATION SPECIFICATIONS FOR INSTALLING UNDERGROUND ELECTRIC UNDER EXISTING FLOWAGE CANAL.
7. FINAL LOCATIONS & CONFIGURATION OF PROPOSED UTILITY POLES SHALL BE DETERMINED BY LOCAL UTILITY COMPANY.
8. LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED.



PROP. CONDITIONS SHEET 3



THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY POTHOLES OR DAMAGED AREAS OF EXISTING GRAVEL ROADS AND/OR BOG ROADS (TYP.)

SEE SITE OVERVIEW PLAN FOR CONTINUATION OF UNDERGROUND ELECTRIC

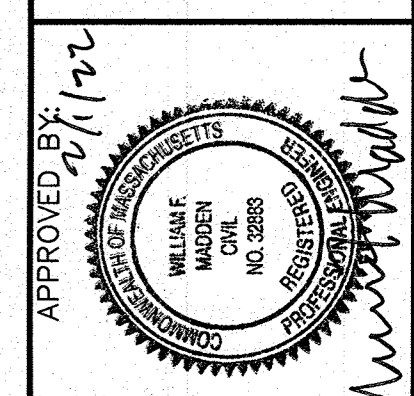
PROP. UNDERGROUND ELECTRIC SHALL BE INSTALLED BENEATH FLOWAGE CANAL USING DIRECTIONAL DRILLING, SEE NOTE 6  
DRILL PIT, CONTRACTOR TO FIELD CONFIRM PIT LOCATIONS PRIOR TO CONSTRUCTION (TYP.)

SURROUND THE ENTIRE RESTORATION AREA WITH COMPOST WATTLES AS SHOWN, LINE IS SHOWN OFFSET FOR CLARITY  
PROVIDE 10' MIN. SPACING BETWEEN PANELS AND FENCE (TYP.)

APPROX. LIMITS OF PROP. 100' RIVERFRONT RESTORATION AREA, SEE CONTINUATION ON SHEET 11

DATE: AUGUST 16, 2021	BY: JWP
DRAWN BY: JWP	BY: JWP
CHECKED BY: WFM	BY: WFM
JOB NO.: 20-9568	BY: JWP
SCALE: 1" = 30'	BY: JWP

APPROVED BY:	DATE:



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

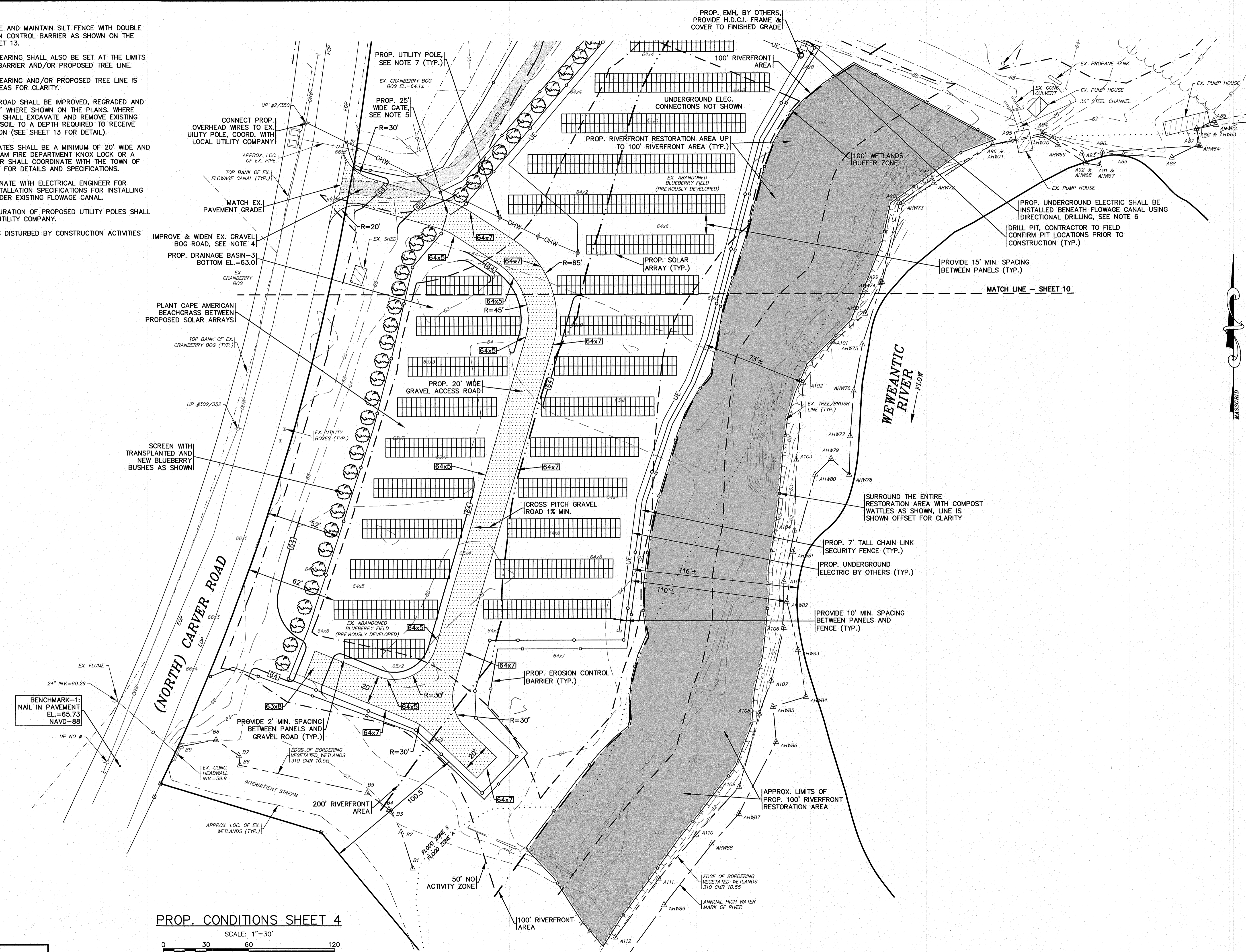
**SITE DEVELOPMENT PLAN**  
**PROPOSED CONDITIONS SHEET 3**  
 56, 44, 48 NORTH CARVER ROAD WAREHAM, MA  
 PREPARED FOR:  
**LSE HYDRA, LLC**  
 40 TOWER LANE, SUITE 201 AVON, CT

JOB NO.: 20-9568	DATE: 12/14/21	BY: JWP
DWG. 10 OF 13	REV: 2	DATE: 1/31/22

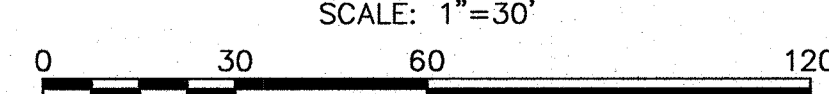
PERMIT SET  
(NOT FOR CONSTRUCTION)

**NOTES:**

- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
- THE LIMIT OF WORK AND CLEARING SHALL ALSO BE SET AT THE LIMITS OF THE EROSION CONTROL BARRIER AND/OR PROPOSED TREE LINE.
- THE LIMIT OF WORK AND CLEARING AND/OR PROPOSED TREE LINE IS SHOWN OFFSET IN SOME AREAS FOR CLARITY.
- THE EXISTING GRAVEL BOG ROAD SHALL BE IMPROVED, REGRADED AND WIDENED TO A WIDTH OF 20' WHERE SHOWN ON THE PLANS. WHERE REQUIRED THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING GRAVEL, TOP SOIL AND SUBSOIL TO A DEPTH REQUIRED TO RECEIVE GRAVEL ROAD CROSS SECTION (SEE SHEET 13 FOR DETAIL).
- ALL PROPOSED SECURITY GATES SHALL BE A MINIMUM OF 20' WIDE AND BE SECURED WITH A WAREHAM FIRE DEPARTMENT KNOX LOCK OR A KNOX KEY BOX. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM FIRE DEPARTMENT FOR DETAILS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR COMPLETE DETAILS AND INSTALLATION SPECIFICATIONS FOR INSTALLING UNDERGROUND ELECTRIC UNDER EXISTING FLOWAGE CANAL.
- FINAL LOCATIONS & CONFIGURATION OF PROPOSED UTILITY POLES SHALL BE DETERMINED BY LOCAL UTILITY COMPANY.
- LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED.



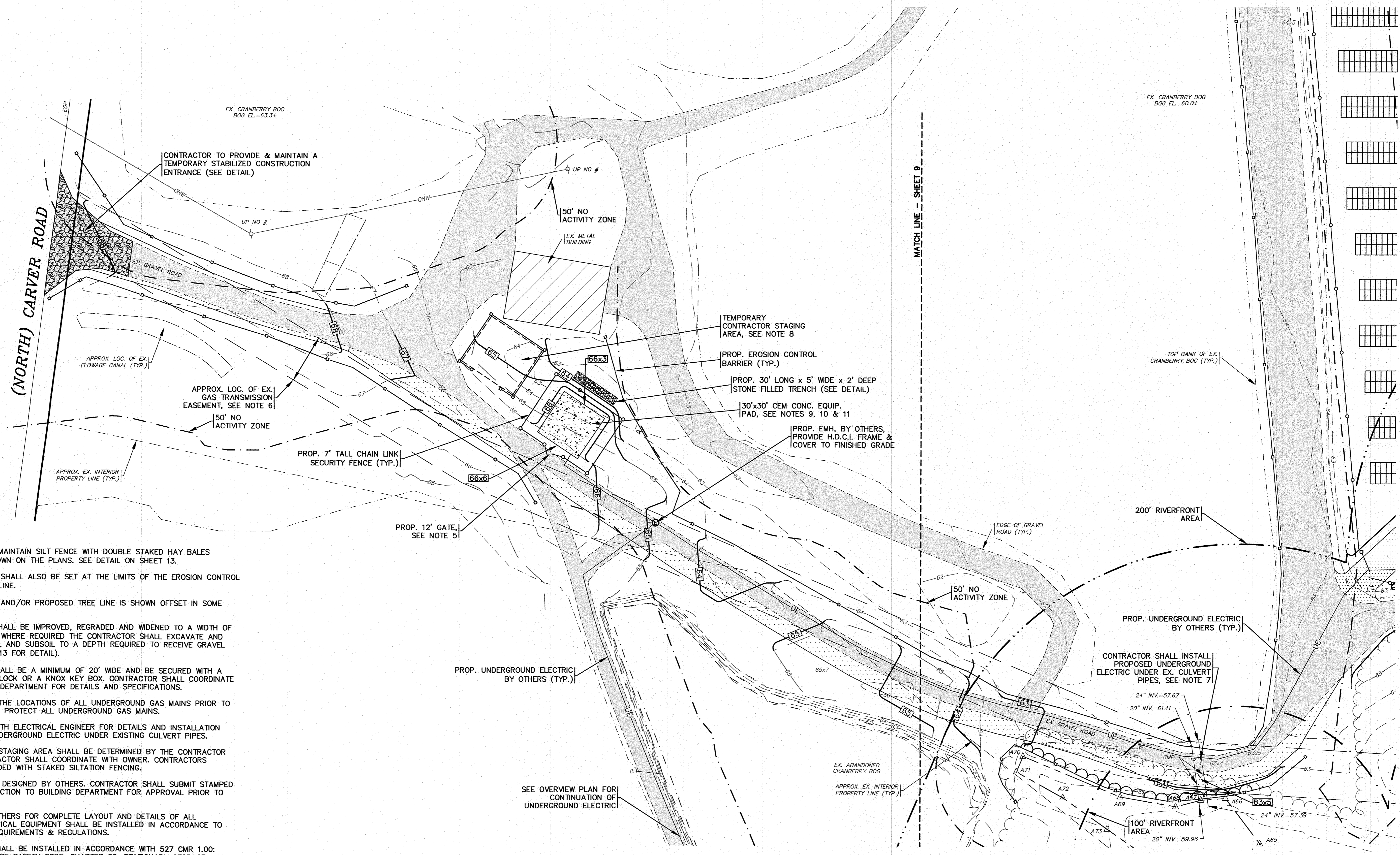
**PROP. CONDITIONS SHEET 4**  
SCALE: 1"=30'



**PERMIT SET**  
(NOT FOR CONSTRUCTION)

DATE: AUGUST 16, 2021		APPROVED BY:	
DRAWN BY: JMF			
CHECKED BY: WFM			
JOB NO.: 20-9568			
SCALE: 1"=30'			
INCREASED RIVERFRONT RESTORATION AREA. REMOVED ALL PROP. PANELS & FENCE FROM 100' RIVERFRONT AREA. MISC. NOTES PER PEER REVIEW LETTER/TOWN COMMENTS		JMF 1/31/22 JMF 12/14/21 JMF REV. DATE BY APP'D	
<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@gafengr.com		PREPARED FOR: <b>LSE HYDRA, LLC</b> 40 TOWER LANE, SUITE 201 AVON, CT	
<b>SITE DEVELOPMENT PLAN</b> <b>PROPOSED CONDITIONS SHEET 4</b> 36, 44, 48 NORTH CARVER ROAD WAREHAM, MA		JOB NO.: 20-9568 DWG. 11 OF 13	

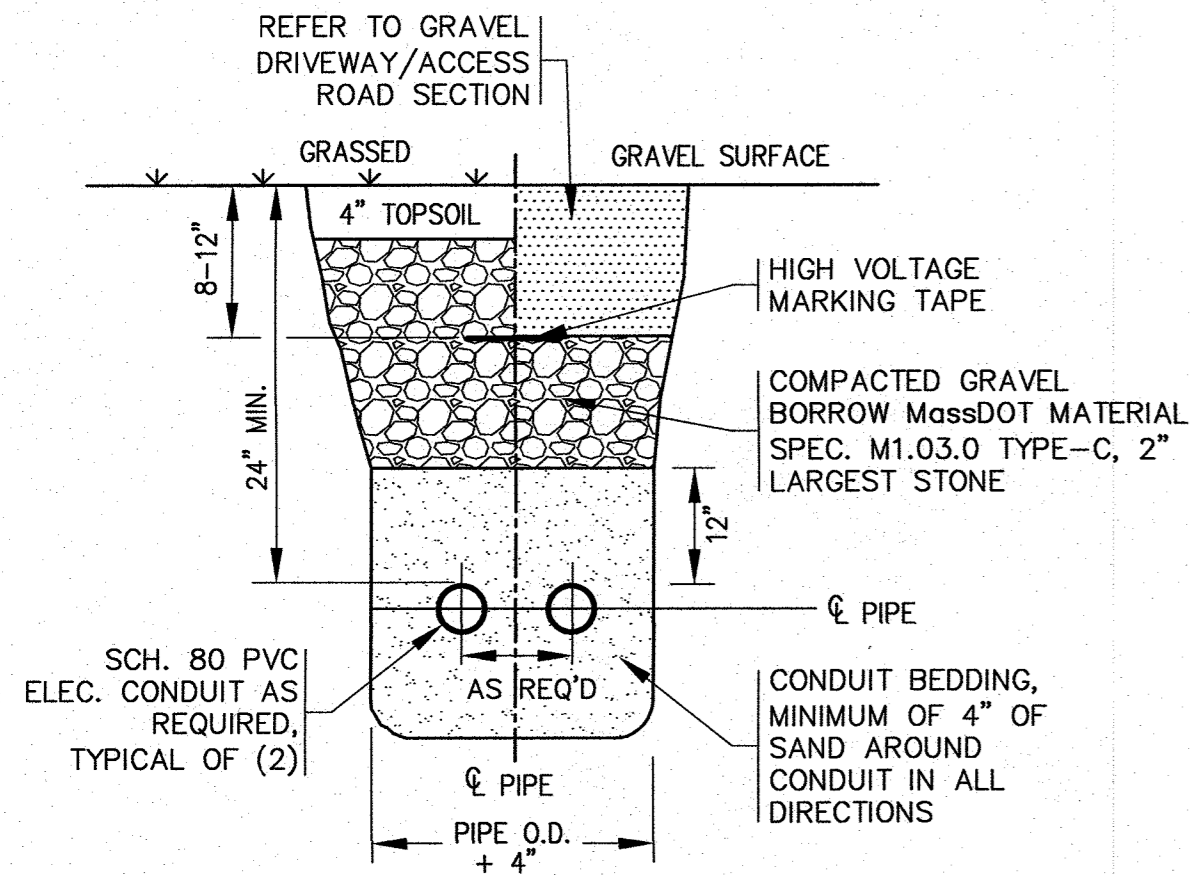
H:\CADD\DRAWINGS\2020 DRAWINGS\20-9568 (LSE HYDRA, LLC)\9568.dwg\9568\_SITE\_PLAN\_4T-2\_REV-2.dwg



- NOTES:**
- CONTRACTOR SHALL PROVIDE AND MAINTAIN SILT FENCE WITH DOUBLE STAKED HAY BALES EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. SEE DETAIL ON SHEET 13.
  - THE LIMIT OF WORK AND CLEARING SHALL ALSO BE SET AT THE LIMITS OF THE EROSION CONTROL BARRIER AND/OR PROPOSED TREE LINE.
  - THE LIMIT OF WORK AND CLEARING AND/OR PROPOSED TREE LINE IS SHOWN OFFSET IN SOME AREAS FOR CLARITY.
  - THE EXISTING GRAVEL BOG ROAD SHALL BE IMPROVED, REGRADED AND WIDENED TO A WIDTH OF 20' WHERE SHOWN ON THE PLANS. WHERE REQUIRED THE CONTRACTOR SHALL EXCAVATE AND REMOVE EXISTING GRAVEL, TOP SOIL AND SUBSOIL TO A DEPTH REQUIRED TO RECEIVE GRAVEL ROAD CROSS SECTION (SEE SHEET 13 FOR DETAIL).
  - ALL PROPOSED SECURITY GATES SHALL BE A MINIMUM OF 20' WIDE AND BE SECURED WITH A WAREHAM FIRE DEPARTMENT KNOX LOCK OR A KNOX KEY BOX. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM FIRE DEPARTMENT FOR DETAILS AND SPECIFICATIONS.
  - CONTRACTOR SHALL FIELD LOCATE THE LOCATIONS OF ALL UNDERGROUND GAS MAINS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UNDERGROUND GAS MAINS.
  - CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR DETAILS AND INSTALLATION SPECIFICATIONS FOR INSTALLING UNDERGROUND ELECTRIC UNDER EXISTING CULVERT PIPES.
  - FINAL LOCATION OF CONTRACTORS STAGING AREA SHALL BE DETERMINED BY THE CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER. CONTRACTORS STAGING AREA SHALL BE SURROUNDED WITH STAKED SILTATION FENCING.
  - CEMENT CONCRETE EQUIPMENT PAD DESIGNED BY OTHERS. CONTRACTOR SHALL SUBMIT STAMPED SHOP DRAWINGS FOR PAD CONSTRUCTION TO BUILDING DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
  - REFER TO ELECTRICAL PLANS BY OTHERS FOR COMPLETE LAYOUT AND DETAILS OF ALL ELECTRICAL EQUIPMENT. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO ALL TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.
  - ALL BATTERY STORAGE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH 527 CMR 1.00: MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE, CHAPTER 52, STATIONARY STORAGE BATTERY SYSTEMS. CONTRACTOR AND OWNER SHALL COORDINATE WITH THE TOWN OF WAREHAM FIRE DEPARTMENT FOR ALL ADDITIONAL REGULATIONS AND SPECIFICATIONS.
  - LOAM AND SEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED.

**PROP. CONDITIONS SHEET 5**  
SCALE: 1"=30'

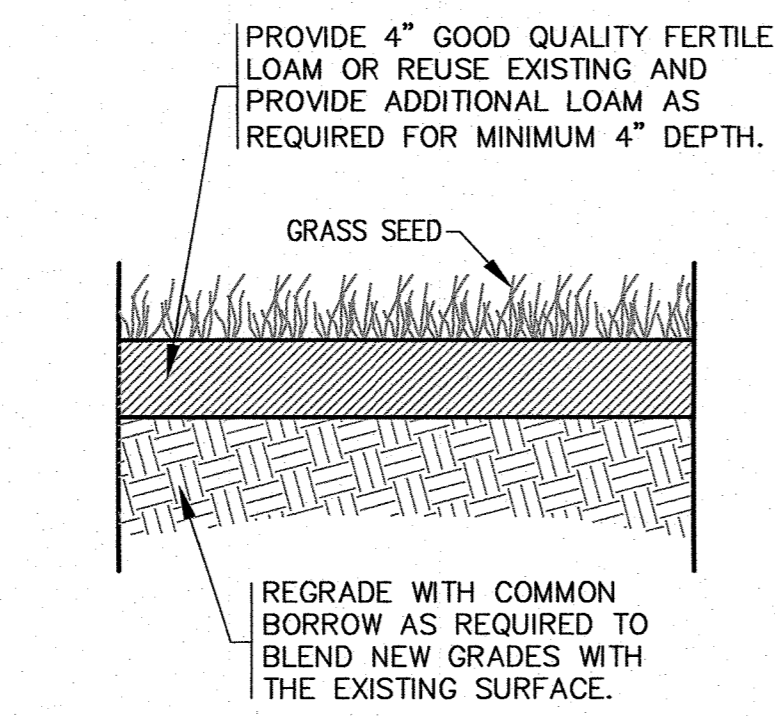
DATE: AUGUST 16, 2021		DRAWN BY: JMP		CHECKED BY: WFM		JOB NO.: 20-9568		SCALE: 1" = 30'	
APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:		APPROVED BY:	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS 266 MAIN STREET WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634		LSE HYDRA, LLC 36, 44, 48 NORTH CARVER ROAD WAREHAM, MA		DATE: 1/31/22		DATE: 12/14/21		DATE: 12/14/21	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS		LSE HYDRA, LLC		JMP		WFM		WFM	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS		LSE HYDRA, LLC		NO CHANGE THIS SHEET		PER PEER REVIEW LETTER/TOWN COMMENTS		DESCRIPTION	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS		LSE HYDRA, LLC		BY		BY		BY	
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS		LSE HYDRA, LLC		APP'D		APP'D		APP'D	



**NOTES:**

- REFER TO ELECTRICAL PLANS BY OTHERS FOR FINAL CONDUIT SIZE.
- FINAL NUMBER AND SPACING OF CONDUITS SHALL BE DETERMINED BY EVERSOURCE.
- ALL CONDUITS PLACED UNDER TRAVELED WAYS OR WHERE VEHICULAR TRAFFIC WILL OCCUR SHALL BE ENCASED WITHIN A 5000 P.S.I. CEMENT CONCRETE MIX THAT MEETS MASSDOT H-20 STANDARDS.

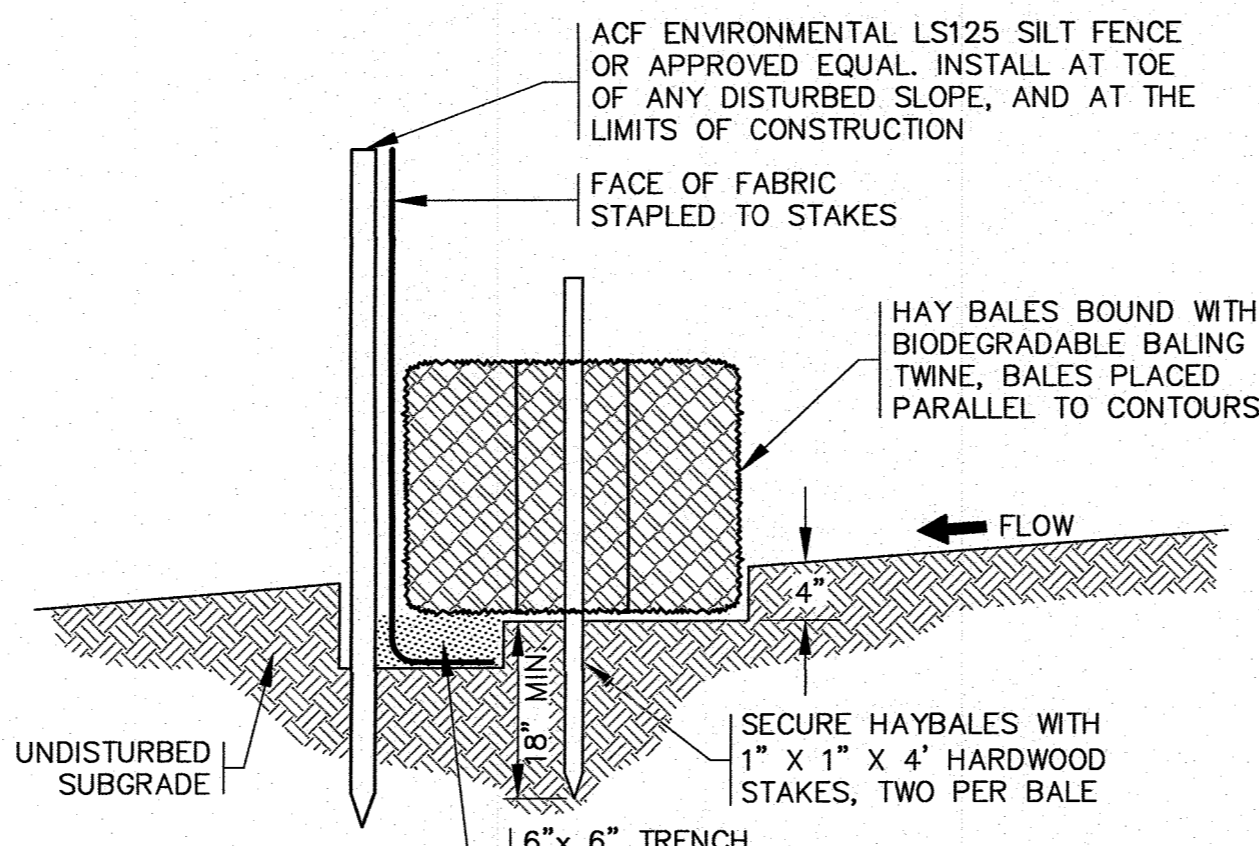
**CONDUIT TRENCH**  
N.T.S.



**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\"/>

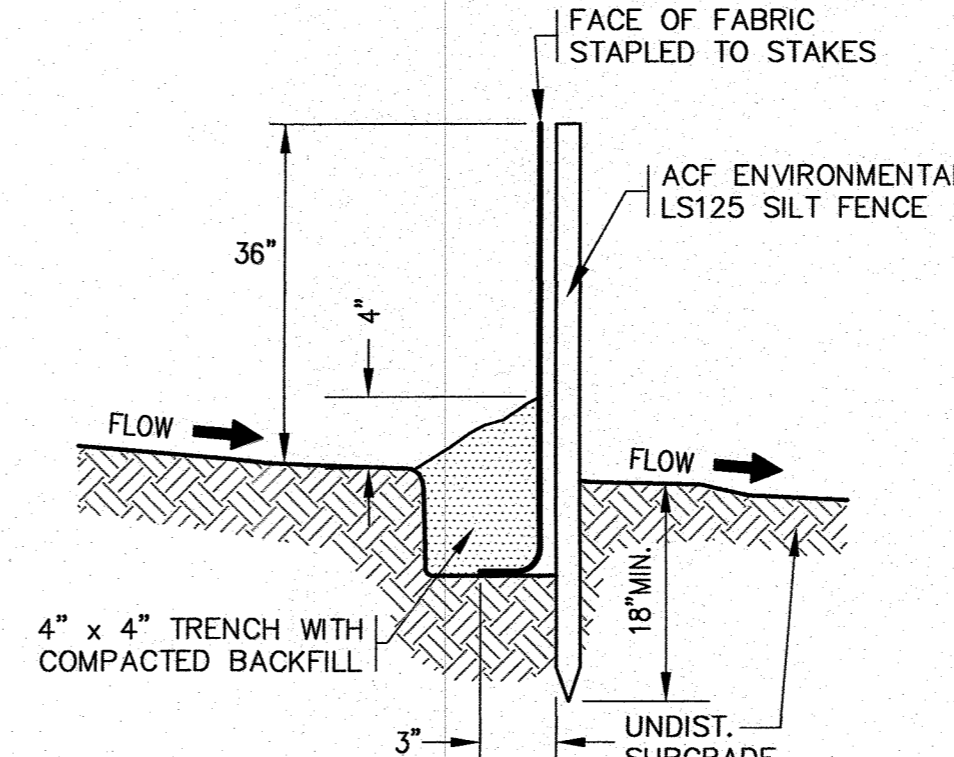
**LOAM AND SEED DETAIL**  
N.T.S.



**NOTES:**

- THE EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL A VEGETATIVE COVER HAS BEEN FIRMLY ESTABLISHED.
- EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE AND/OR LOCAL CONSERVATION AUTHORITY.
- REFER TO THE EROSION CONTROL NOTES ON SHEET 2.

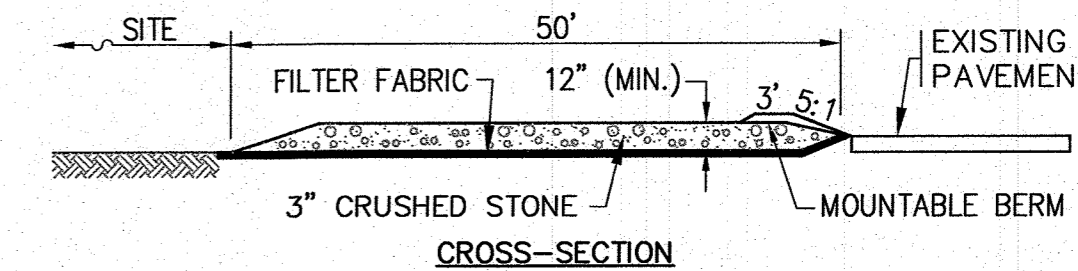
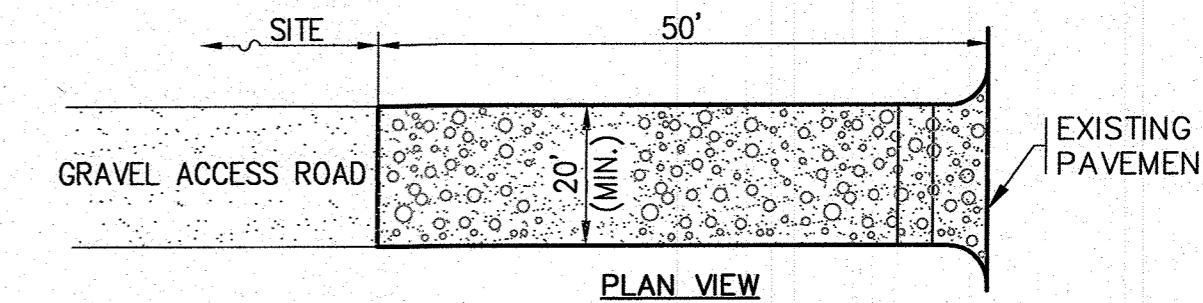
**HAY BALE & SILTATION FENCE BARRIER DETAIL**  
N.T.S.



**NOTES:**

- SILTATION FENCE SHALL BE ACF ENVIRONMENTAL LS125 SILT FENCE OR AN APPROVED EQUAL.
- SILTATION FENCING SHALL BE INSTALLED DOWNSLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE OR STABILIZED COVER HAS BEEN FIRMLY ESTABLISHED.
- EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

**SILTATION FENCE BARRIER DETAIL**  
N.T.S.



**NOTES:**

- ENTRANCE WIDTH SHALL BE 20 FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

**TEMPORARY STABILIZED CONSTRUCTION ENTRANCE**  
N.T.S.

DATE: AUGUST 16, 2021  
 DRAWN BY: JMP  
 CHECKED BY: WFM  
 JOB NO.: 20-9568  
 SCALE: N.T.S.  
 REV. DATE BY APP'D  
 1 12/14/21 JMP WFM PER PEER REVIEW LETTER/TOWN COMMENTS  
 2 1/31/22 JMP WFM REV. DRAINAGE BASIN DETAIL

APPROVED BY:  
  
 WILLIAM MADDEN  
 CIVIL ENGINEER  
 NO. 32889

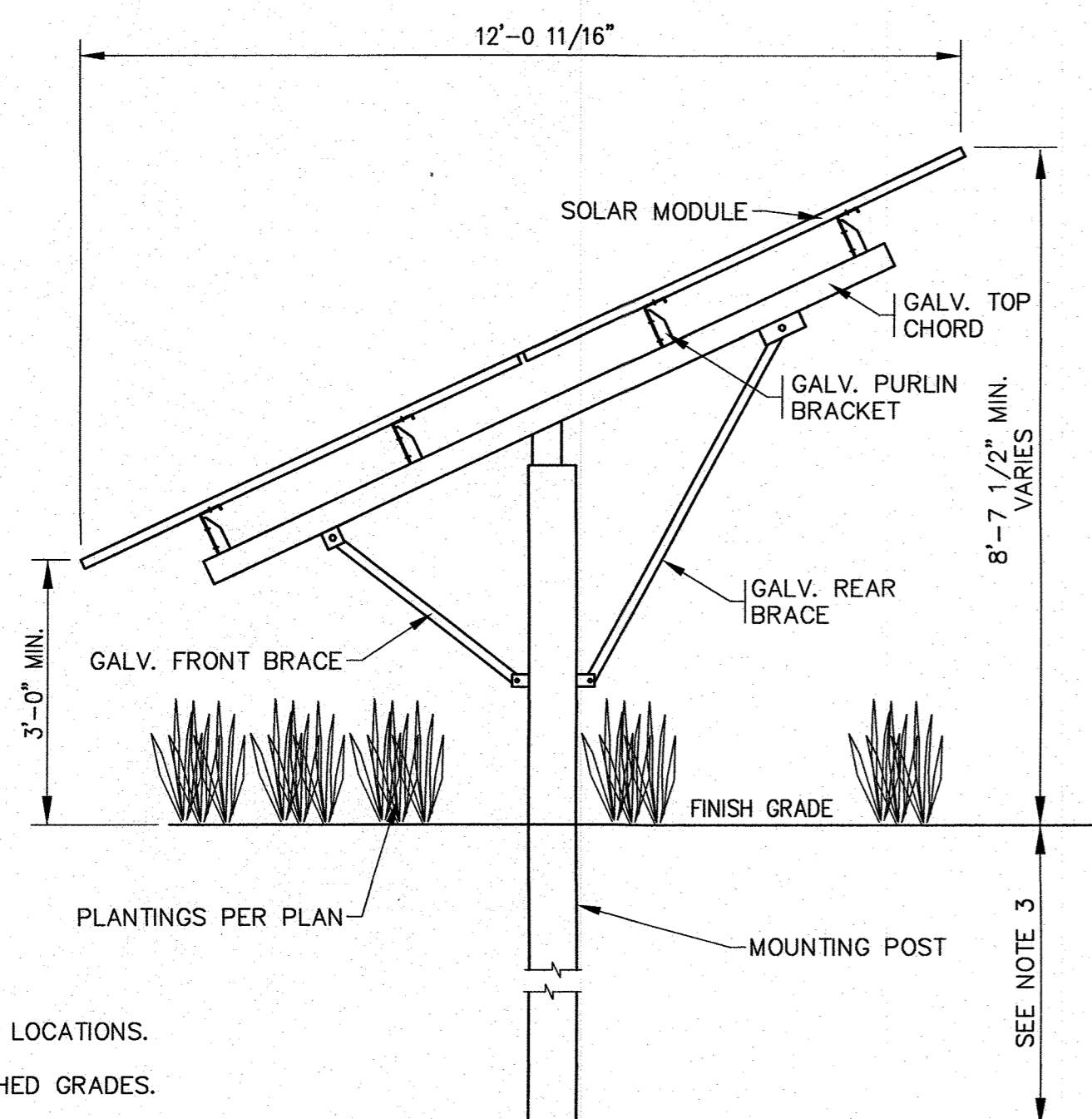
**G.A.F. ENGINEERING, INC.**  
 PROFESSIONAL ENGINEERS & LAND SURVEYORS  
 266 MAIN STREET - WAREHAM, MA 02571  
 TEL: (508) 295-6600 FAX: (508) 295-6634  
 E-MAIL: info@gafengr.com

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**SITE DEVELOPMENT PLAN**  
**DETAIL SHEET**  
 PREPARED FOR:  
**LSE HYDRA, LLC**  
 36, 44, 48 NORTH CARVER ROAD  
 WAREHAM, MA  
 AVON, CT

JOB NO.: 20-9568  
 DWG. 13 OF 13

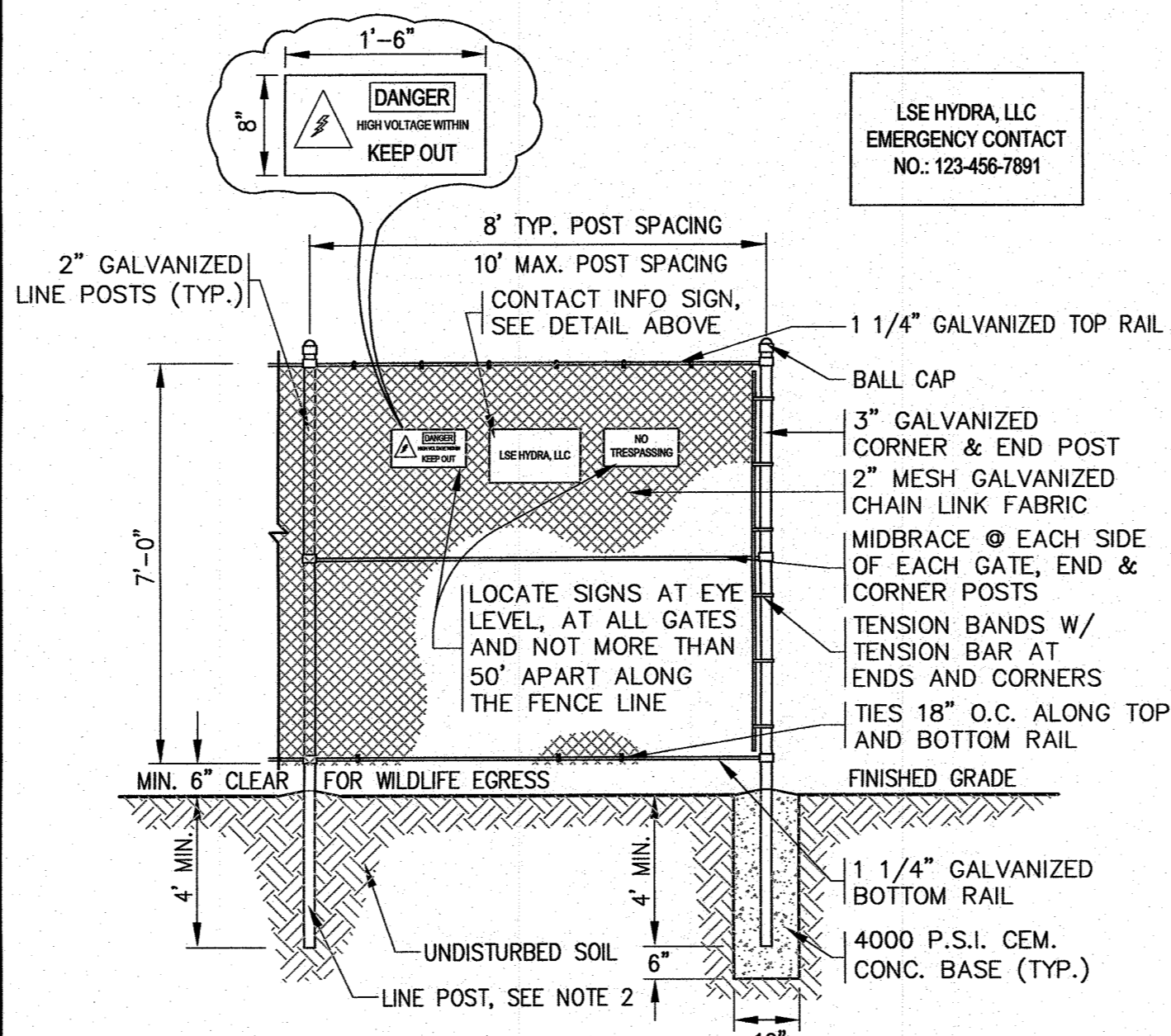
**PERMIT SET**  
 (NOT FOR CONSTRUCTION)



**NOTES:**

- REFER TO PLAN FOR LOCATIONS.
- SEE PLAN FOR FINISHED GRADES.
- REFER TO MANUFACTURERS SPECIFICATIONS FOR INSTALLATION DETAILS.

**SOLAR ARRAY INSTALLATION**  
N.T.S.



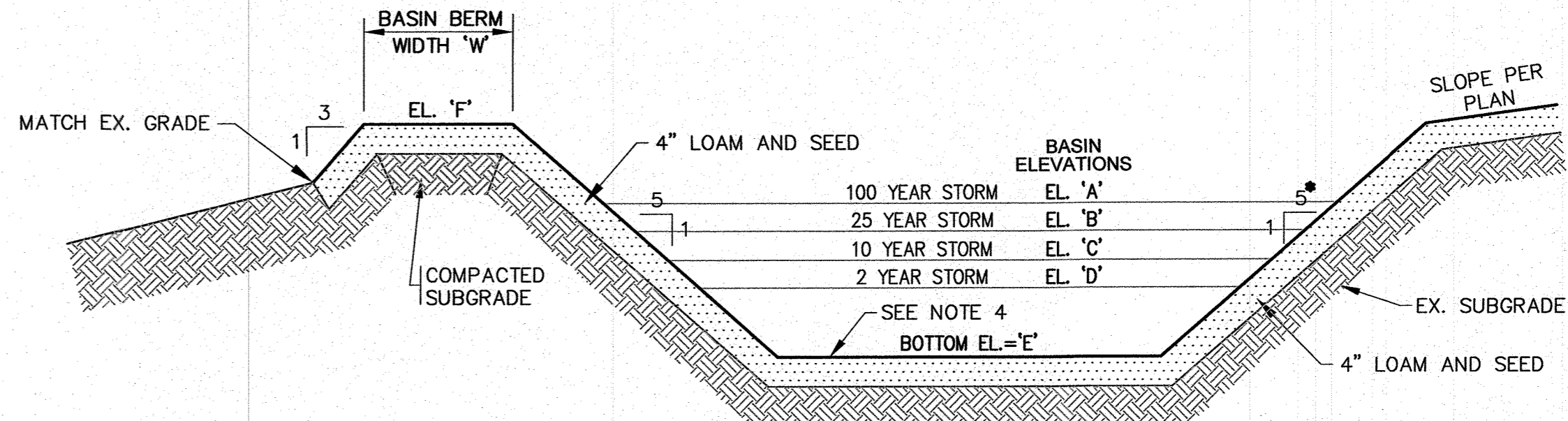
**NOTES:**

- ALL GATES SHALL HAVE 4\"/>

**SECURITY FENCE DETAIL**  
N.T.S.

**ELEVATION TABLE:**

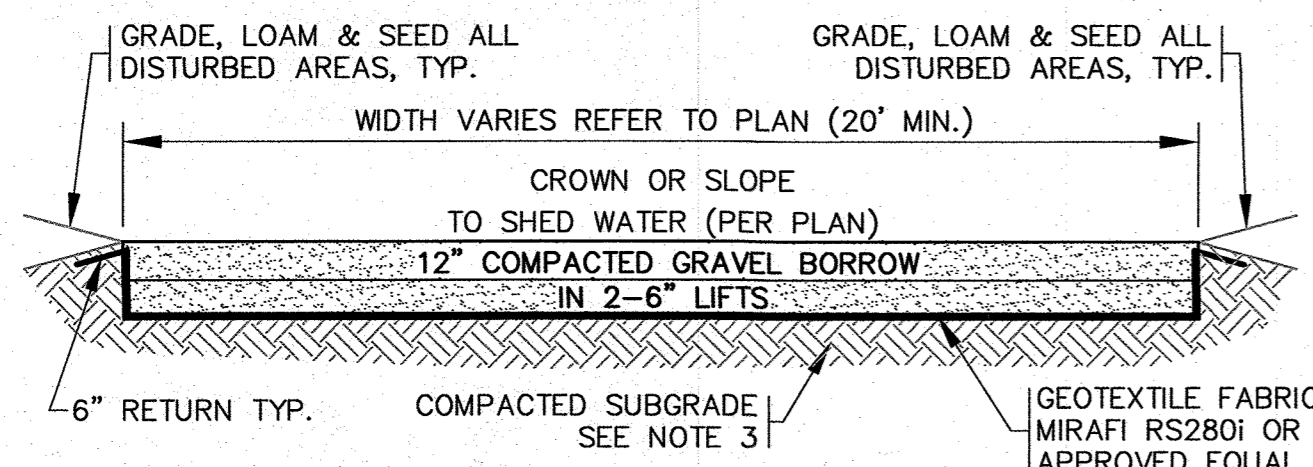
DESC/EL.	EL. 'A'	EL. 'B'	EL. 'C'	EL. 'D'	EL. 'E'	EL. 'F'	WIDTH 'W'
BASIN-1	63.07	63.01	63.00	63.00	63.00	64.50	10'
BASIN-2	63.06	63.02	63.01	63.00	63.00	64.50	20'
BASIN-3	63.27	63.14	63.06	63.00	63.00	64.50	20'



**NOTES:**

- REFER TO PLAN FOR LOCATIONS AND SIDE SLOPE GRADING.
- GRASS SHALL BE MAINTAINED A MINIMUM OF 4\"/>

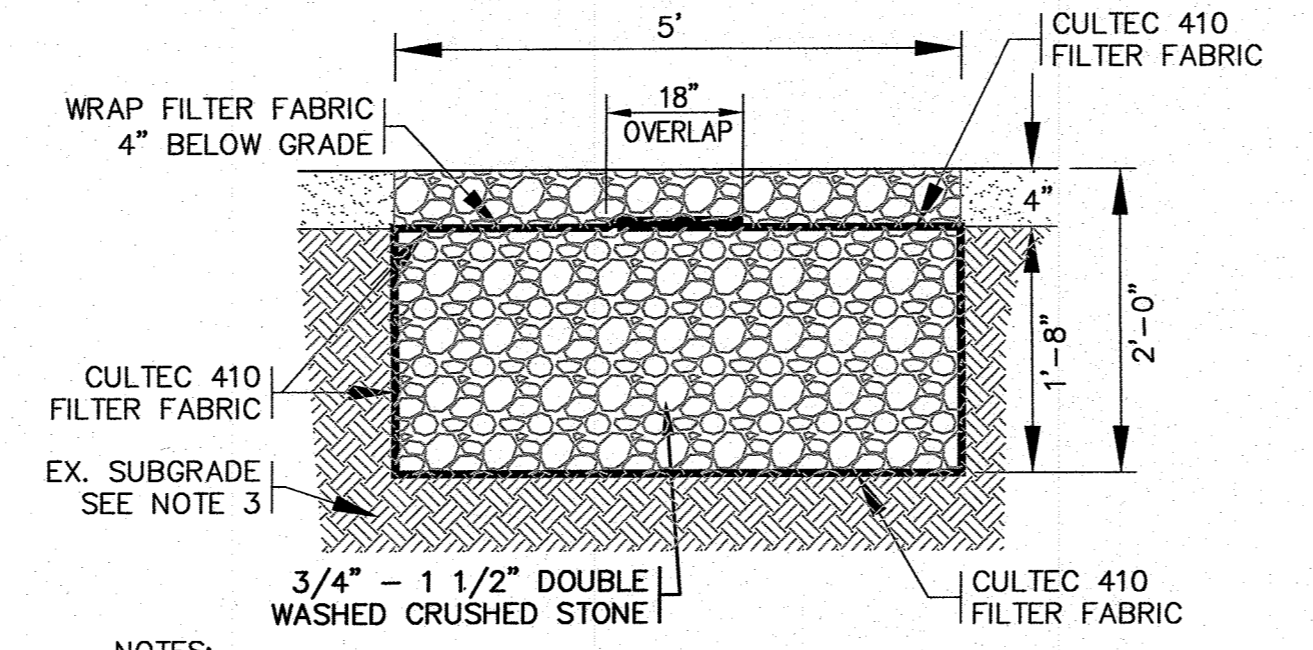
**DRAINAGE BASIN DETAIL**  
N.T.S.



**NOTES:**

- REFER TO PLAN FOR LOCATIONS.
- COMPACTED GRAVEL BORROW SHALL CONFORM TO MASSDOT MATERIAL SPEC SECTION M1.03.0 TYPE-C AND COMPACTED TO 95%.
- CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AROUND AND BENEATH 2' AND REPLACE WITH CLEAN SOIL, SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.

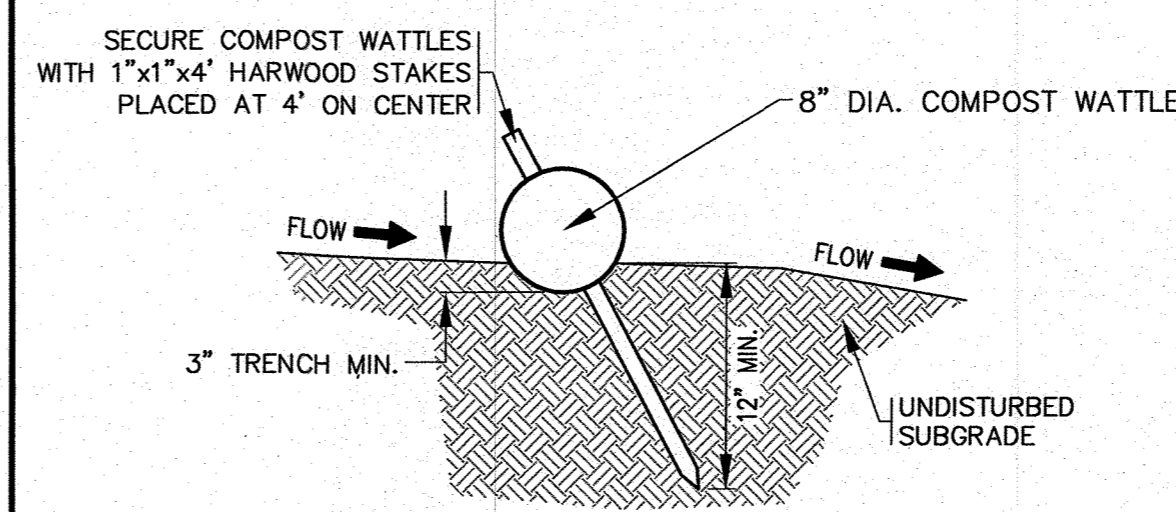
**GRAVEL ACCESS ROAD SECTION**  
N.T.S.



**NOTES:**

- REFER TO PLAN FOR LOCATIONS AND ELEVATIONS.
- COVER TRENCHES WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED.
- REMOVE ALL UNSUITABLE SOIL 2' MINIMUM BENEATH AND AROUND THE PROPOSED CRUSHED STONE TRENCH. THIS INCLUDES ORGANICS, TOPSOIL, ROOTS AND OTHER UNSUITABLE SOILS.

**STONE FILLED TRENCH**  
N.T.S.



**NOTES:**

- COMPOST WATTLES SHALL BE INSTALLED AROUND ALL SIDES OF THE RIVERFRONT RESTORATION AREAS AND AS SHOWN ON THE PLANS.
- SECURE WATTLES WITH 1\"/>

**COMPOST WATTLE DETAIL**  
N.T.S.