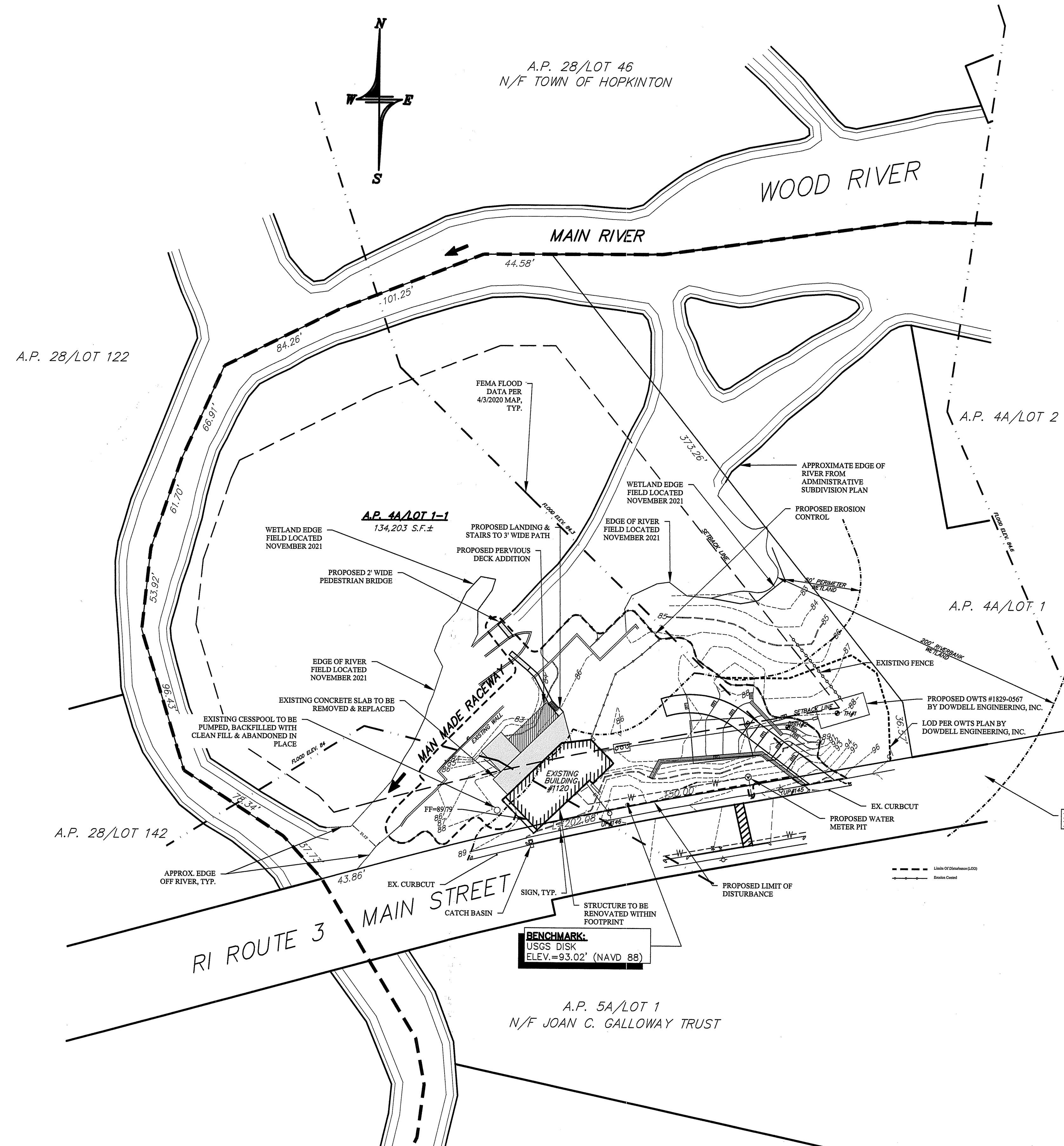


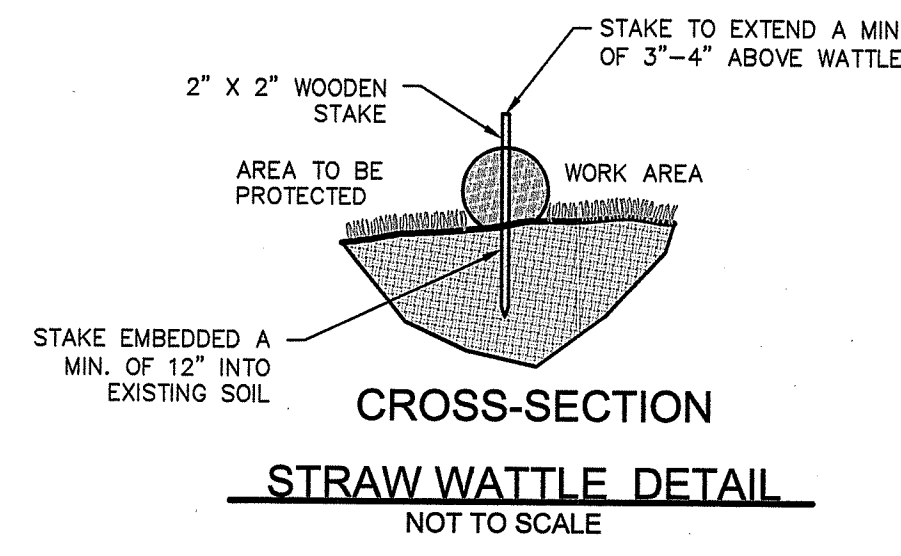
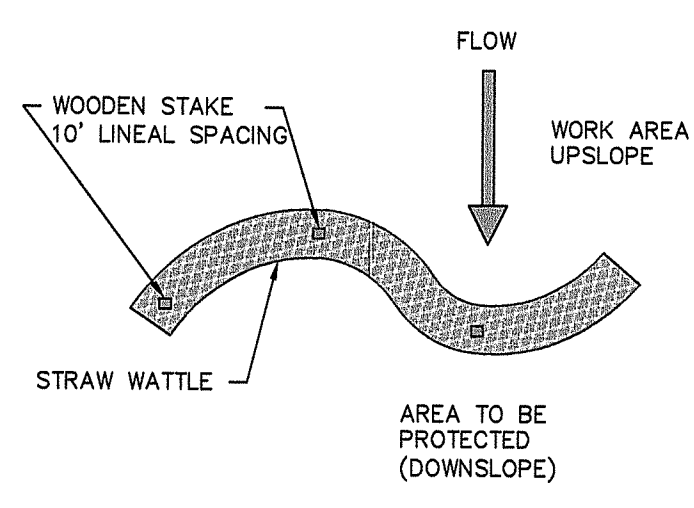
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- SURVEY PLAN REFERENCES:**
- ADMINISTRATIVE SUBDIVISION ASSESSOR'S PLAT 4A LOTS 1 & 1-1 PREPARED FOR SHIRLEY WASHBURN LIVING TRUST SITUATED IN THE TOWN OF RICHMOND RHODE ISLAND BY DOWDELL ENGINEERING INC. DATED JAN. 3, 2019, REV. JAN. 7, 2019 & JAN. 8, 2019.
  - PROPOSED ON-SITE WASTEWATER TREATMENT SYSTEM AT A.P. 4A, LOT 1-1 SITUATED IN THE TOWN OF RICHMOND, RI FOR FRED CINDRICH BY DOWDELL ENGINEERING INC DATED MAY 19, 2020, REV. JUNE 5, 2020.
  - SUBSEQUENT FIELD SURVEY SPECIFIC TO THE PROPOSED PROJECT PROVIDED BY DOWDELL ENGINEERING INC.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM

**NOTE PER DEM:**  
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

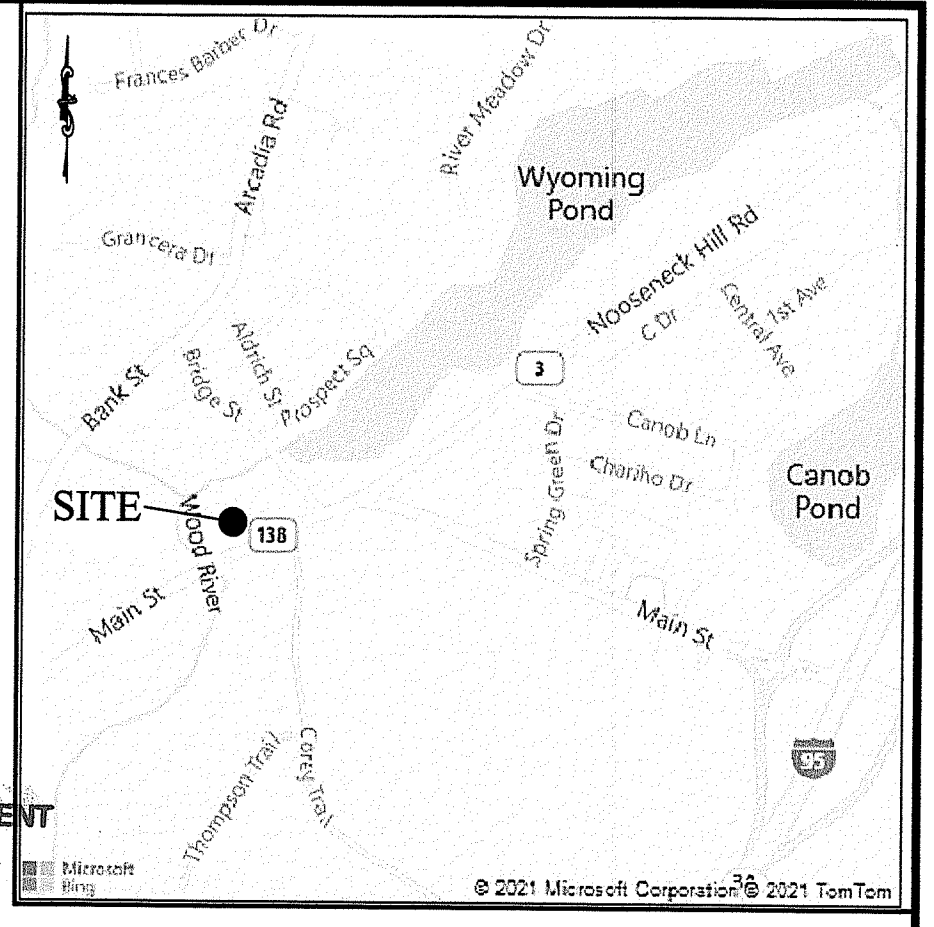


**STRAW WATTLE DETAIL**  
NOT TO SCALE

**SITE CONDITIONS**

LOT: 1-1  
A.M.: 4A  
AREA: 3.08 ACRES  
ROAD FRONTAGE: 395.94'  
ZONING DISTRICT: GB

**SETBACKS**  
FRONT: 40 FEET  
REAR: 60 FEET  
SIDE: 35 FEET  
BUILDING COVERAGE: 25 %  
BUILDING HEIGHT: 40 FEET MAIN STRUCTURE  
REQUIRED FRONTAGE: 150'



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL

ED: JUN 30 2022 FILE # 22-0042  
MUST BE ALLOWED WITHOUT PRIOR APPROVAL  
ON THESE SITES MUST BE AT CONSTRUCTION SITE

*Martin D. Wenzel*

**LEGEND**

These standard symbols will be found in the drawing.

- 4 EXISTING SIGN
- TEST HOLE
- UTILITY POLE
- HYDRANT
- SETBACK LINE
- WATER SHUTOFF/VALVE
- FENCE
- EXISTING CONTOURS
- EXISTING WATER MAIN
- EXISTING O/H ELECTRIC

**FEMA DESIGNATIONS:**

THE SUBJECT PROPERTY DEPICTED HEREON APPEARS WITHIN ZONE AE HAVING BASE FLOOD ELEVATIONS 84, 84.3 & 84.6 (AS SHOWN) OF FEMA FLOOD INSURANCE RATE MAP 44099C0064J, DATED APRIL 3, 2020.

**GENERAL:**

THE CONTRACTOR IS REQUIRED TO MAINTAIN THE CONSTRUCTION AREA IN A SAFE MANNER AND ALL CONSTRUCTION ACTIVITY ON THE SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

**UTILITIES:**

THE LOCATION OF EXISTING UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY AND HAVE BEEN SHOWN USING THE BEST AVAILABLE DATA AND FIELD SURVEY OF VISIBLE MANHOLES AND COVERS. STORMWATER DRAINAGE LOCATIONS ARE BASED ON FIELD OBSERVATION, SURVEY BY DOWDELL ENGINEERING, INC.

THE CONTRACTOR SHALL CONTACT "DIG-SAFE" AND/OR OTHER APPROPRIATE UTILITY COMPANIES TO ASCERTAIN THE EXACT LOCATION OF THE RESPECTIVE UTILITY PRIOR TO CONSTRUCTION. UTILITIES INCLUDE BUT ARE NOT LIMITED TO ELECTRIC, TELEPHONE, WATER, CABLE TV, ETC.

NO MUNICIPAL SEWER SERVICE IS AVAILABLE FOR THE SITE DEVELOPMENT. THE SITE DEVELOPMENT WILL BE SERVED BY AN ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS). ALL PROPOSED UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROPRIATE UTILITY STANDARDS AND REQUIREMENTS.

**CONSTRUCTION WASTE:**

- IT IS THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR FOR THE FOLLOWING:
- ALL CONSTRUCTION WASTE SHALL BE PROPERLY HANDLED AND DISPOSED IN A PROPER MANNER, I.E. STORED IN APPROPRIATE CONTAINERS AND DISPOSED OFF-SITE AT APPROPRIATE FACILITIES.
  - HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH LOCAL, STATE OR FEDERAL LAWS OR REGULATIONS.
  - THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CLEAN ORDERLY FASHION WITH DEBRIS, LITTER AND CONSTRUCTION WASTE CLEANED UP AS NEEDED. THE SITE SHALL ALSO BE CLEANED AT THE END OF EACH DAY.
  - CONCRETE WASHDOWN WATER USED TO CLEAN CONCRETE TOOLS AND EQUIPMENT SHALL BE DISPOSED OF PROPERLY AND SHALL NOT BE ALLOWED TO ENTER STORM DRAINS, SANITARY SEWERS OR PERMITTED TO DISCHARGE TO STREET SURFACES. HARDENED WASTE CONCRETE SHALL BE DISPOSED IN A MANNER SIMILAR TO ANY EARTH SPOILS PROVIDED THE MATERIALS ARE NOT CONTAMINATED WITH HAZARDOUS SUBSTANCES.
  - A SUFFICIENT NUMBER OF ON-SITE PORTABLE TOILETS SHALL BE PROVIDED FOR PERSONNEL IF OTHER TOILET FACILITIES ARE NOT ALREADY AVAILABLE.
  - CONTRACTOR SHALL INSURE TRUCKS AND VEHICLES DO NOT CARRY MUD FROM THE SITE ONTO ADJUTING STREETS OR PROPERTIES BY THE USE OF APPROPRIATE VEHICLE CONSTRUCTION ENTRANCE PADS. THE CONTRACTOR SHALL BE ESPECIALLY DILIGENT WHERE CONSTRUCTION PADS CANNOT BE USED OR ARE UNFEASIBLE DUE TO SITE CONSTRAINTS, E.G. EXISTING PAVEMENT OR LIMITED AREA.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING TRACKED MUD FROM ADJUTING STREETS, STORM DRAINS, ETC. TO THE SATISFACTION OF THE OWNER OF THE STREET OR DRAINS.

**EROSION AND SEDIMENTATION CONTROL NOTES:**

TEMPORARY AND/OR PERMANENT EROSION CONTROL DEVICES SUCH AS BALED HAY, SILT FENCING, STRAW WATTLE, ETC. SHALL BE INSTALLED PRIOR TO ANY CLEARING OR EXCAVATION. HAY BALES OR SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE AND ADJOINING AREAS OF SOIL DISTURBANCE AND STOCKPILES. INSTALLATION OF ALL EROSION CONTROL DEVICES SHALL BE CONDUCTED IN ACCORDANCE TO DETAIL SPECIFICATIONS.

CLEARING OF EXISTING VEGETATION SHALL BE DONE IN A CONTROLLED MANNER SO AS TO AVOID EXTENSIVE AREAS OF DEFOLIATED TERRAIN SUBJECT TO EROSION. AREAS SO DISTURBED SHALL BE BROUGHT TO FINAL GRADES AND STABILIZED AS SOON AS POSSIBLE.

DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL.

ALL EROSION CONTROL DEVICES SHALL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS DURING CONSTRUCTION, ESPECIALLY AFTER EACH RAINFALL.

DUE TO CHANGING CHARACTERISTICS OF THE SITE CAUSED BY AND DURING CONSTRUCTION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE CONDITIONS WARRANT.

IF CONSTRUCTION IS SUSPENDED, ALL DISTURBED AREAS SHALL BE SEEDED AND ALL NECESSARY EROSION CONTROL DEVICES SHALL BE IN PLACE AND IN GOOD WORKING ORDER. IF SEEDED IS NOT POSSIBLE THEN EROSION CONTROL MATS SHALL BE PLACED OVER ALL DISTURBED SOIL. EROSION CONTROL BLANKETS (MATS) SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. EROSION CONTROL BLANKETS (MATS) SHALL BE MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUIVALENT AND INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

ALL EROSION CONTROL METHODS, MATERIALS AND MAINTENANCE SHALL BE DONE IN ACCORDANCE WITH THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK". ALL AREAS WHICH ARE DISTURBED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST A MINIMUM DEPTH OF GOOD QUALITY LOAM AND ALL SOIL AMENDMENTS DEEMED NECESSARY. THE AREA SHALL BE SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS URI #2 OR APPROVED EQUIVALENT.

THE CONTRACTOR SHALL PROVIDE FOR ALL SEEDED AREAS TO BE WATERED AND IN GOOD CONDITION UNTIL A GOOD HEALTHY AND UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA.

**CJ DOYLE, P.E.**

CIVIL ENGINEERING  
MAILING ADDRESS:  
P.O. BOX 1181, HOPE VALLEY, RI 02832  
OFFICE LOCATION:  
1122 MAIN STREET, WYOMING, RI  
PHONE (401) 481-8530  
cjd@doylepe.com

NO.	DATE	REVISION	DESCRIPTION	BY
1	04/14/2022	REVISED PER WETLANDS COMMENTS		CJD

DRAWING TITLED:  
**RIDEM WETLANDS APPLICATION**

**OVERALL SITE PLAN**

LOCATED ON:  
LOT 1-1 PLAT 4A

OWNED BY:  
**FREDERICK CINDRICH**

ADDRESS:  
1120 MAIN STREET  
IN THE TOWN OF RICHMOND, RI

APR 19 2022  
Office of Water Resources

DESIGNED BY:  
CAROLYN J. DOYLE, P.E.

SCALE: 1"=40'  
DRAWN BY: CJD  
CHECKED BY: CJD

SHEET 1 OF 3

**CAROLYN J. DOYLE**  
No. 5078  
REGISTERED PROFESSIONAL ENGINEER

A.P. 4A/LOT 1-1  
134,203 S.F.±

A.P. 4A/L

Environmental Management  
APR 19 2022  
Office of Water Resources

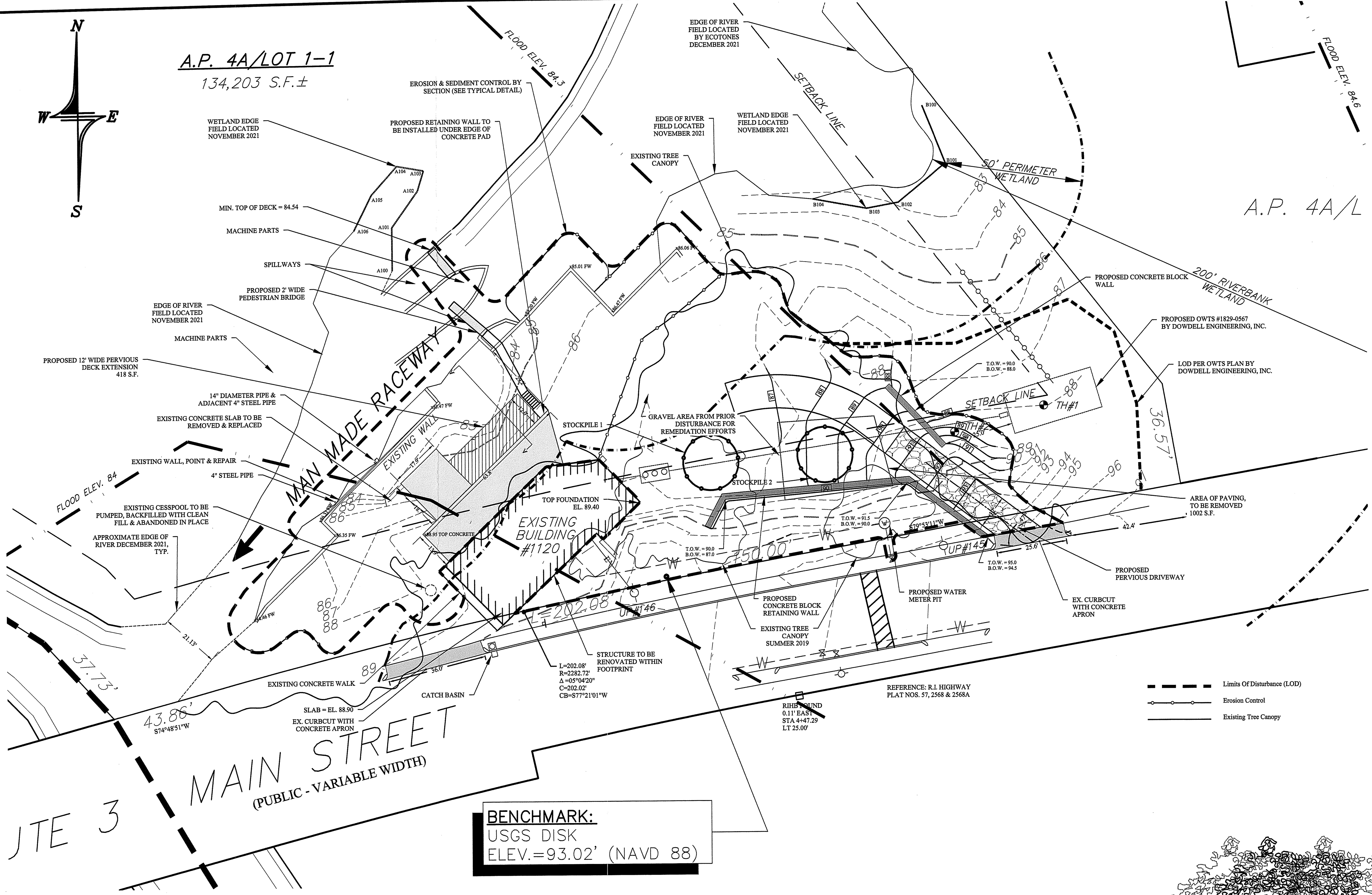
CONSTRUCTION ENTRANCE  
50'-0" MIN.  
5" MIN.  
CRUSHED STONE  
GEOGRID  
WIDTH AS REQUIRED

NOTE:  
SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
**CONSTRUCTION ACCESS**

NO.	BY	DATE

JUNE 15, 1998  
R.I. STANDARD 9.9.0



**BENCHMARK:**  
USGS DISK  
ELEV.=93.02' (NAVD 88)

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
DATED: JUN 30 2022 FILE #: 22-0042  
NO CHANGE ALLOWED WITHOUT PRIOR APPROVAL  
APPROVALS MUST BE AT CONSTRUCTION SITE

**TREE CANOPY:**  
THE TREE CANOPY SHOWN ON THE PLAN WAS DETERMINED BY ECOTONES, INC. USING BEST AVAILABLE INFORMATION INCLUDING AERIAL PHOTOGRAPHS.

**CJ DOYLE, P.E.**  
CIVIL ENGINEERING  
MAILING ADDRESS:  
P.O. BOX 1161, HOPE VALLEY, RI 02832  
OFFICE LOCATION:  
1122 MAIN STREET, WYOMING, RI  
PHONE (401) 491-9530  
cjd@cmcc.net

NO.	DATE	DESCRIPTION	BY
1	04/14/2022	REVISED PER WETLANDS COMMENTS	CJD

DRAWING TITLED:  
**RIDEM WETLAND APPLICATION  
ENLARGED SITE PLAN & DETAILS**

LOCATED ON:  
**LOT 1-1 PLAT 4A**

OWNED BY:  
**FREDERICK CINDRICH**

ADDRESS:  
**1120 MAIN STREET  
IN THE TOWN OF RICHMOND, RI**

DESIGNED BY:  
**CAROLYN J. DOYLE, P.E.**

SCALE: 1" = 20'

DRAWN BY:  
CJD

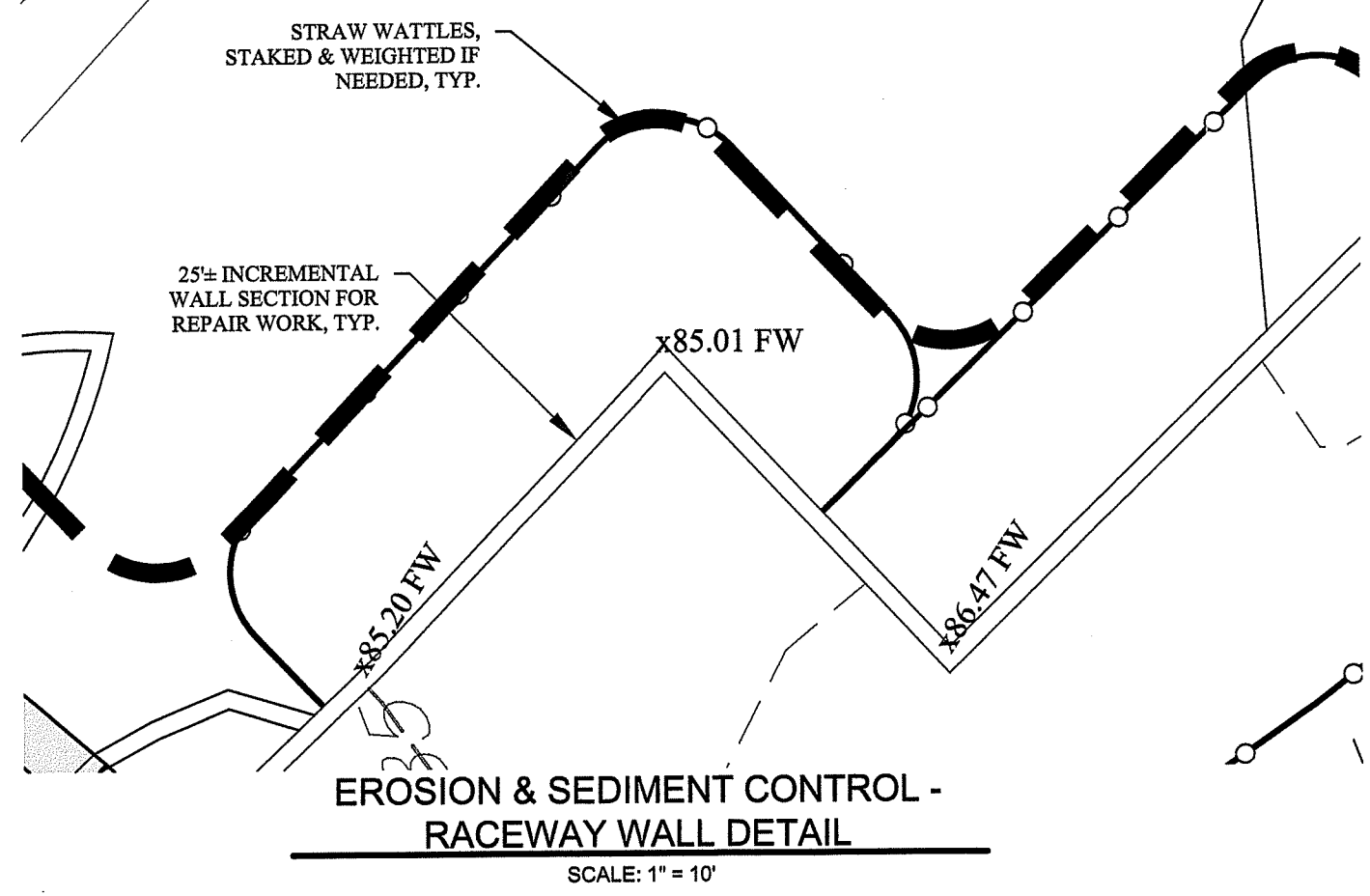
CHECKED BY:  
CJD

DRAWING NO.  
**SHEET 2 OF 3**

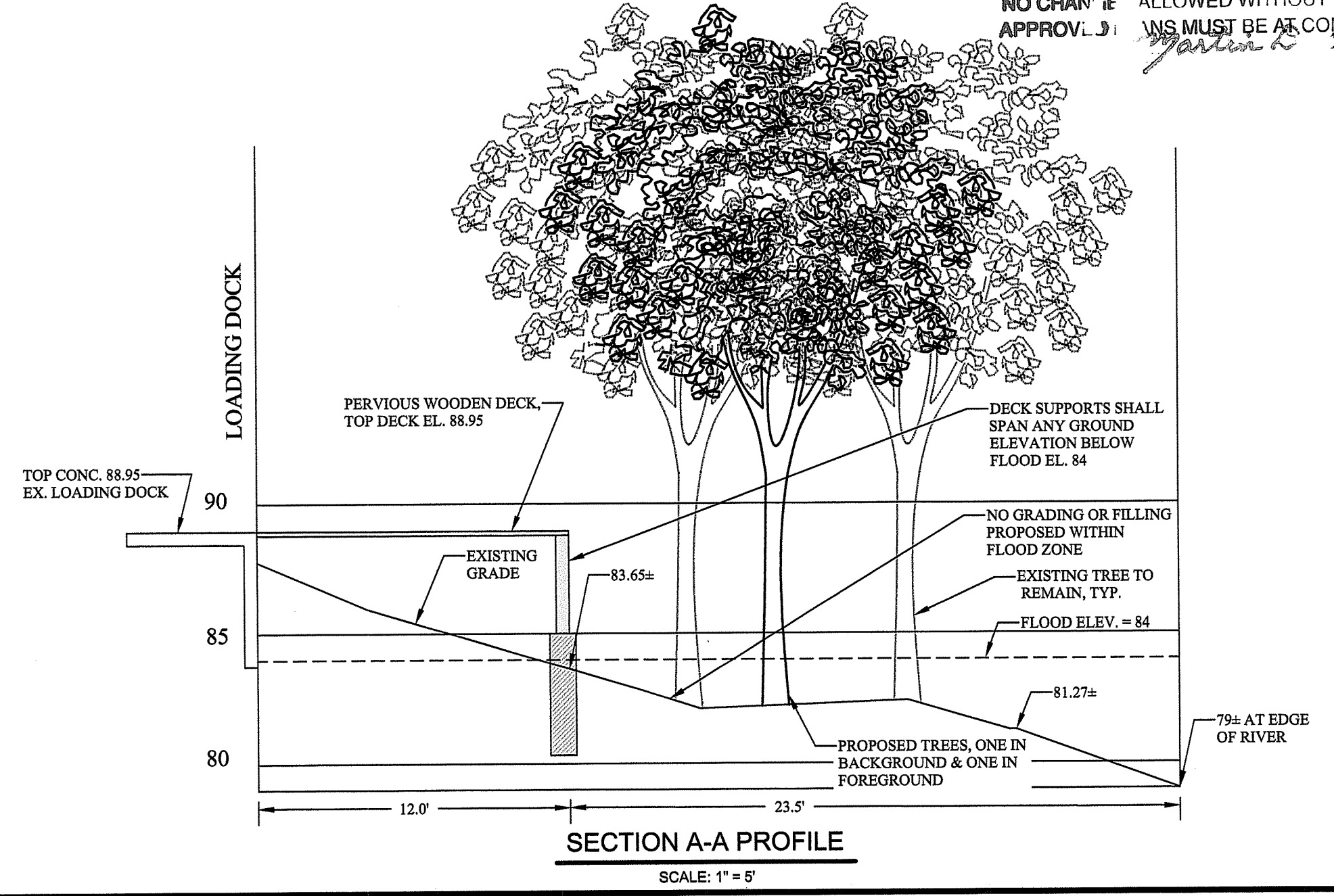
CAROLYN J. DOYLE  
No. 5078  
REGISTERED PROFESSIONAL ENGINEER

**LEGEND**

- These standard symbols will be found in the drawing.
- 4
  - EXISTING SIGN
  - TEST HOLE
  - UTILITY POLE
  - HYDRANT
  - SETBACK LINE
  - WATER SHUTOFF/VALVE
  - FENCE
  - EXISTING CONTOURS
  - EXISTING WATER MAIN
  - EXISTING O/H ELECTRIC
  - EROSION CONTROL



- RACEWAY WALL REPAIR:**
1. RACEWAY WALL REPAIR SHALL BE DONE IN LOW FLOW RIVER CONDITIONS ONLY.
  2. RACEWAY WALL REPAIR SHALL CONSIST OF POINTING AND RESTACKING AS NEEDED.
  3. THE WORK SHALL BE DONE SECTION BY SECTION IN APPROXIMATE 25' INCREMENTS ALONG THE WALL.
  4. THE INCREMENTAL SECTION OF WALL SHALL BE SURROUNDED BY WATTLE, STACKED & WEIGHTED IF NECESSARY.
  5. ONCE INCREMENTAL SECTION OF WALL IS COMPLETE, THE EROSION CONTROL SHALL BE MOVED TO THE NEXT INCREMENTAL SECTION.



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