EFI EXPRESS

SITE DEVELOPMENT DRAWINGS

TAX MAP 257 LOT 66 · TEBBETTS ROAD ROCHESTER · NEW HAMPSHIRE · 03867 REVISED OCTOBER 26, 2021

PREPARED FOR EFI EXPRESS, LLC

C/O MARC SWANSON 61 THOMPSON MILL ROAD LEE, NH 03861



YEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO

 HANNI SILING FISH WARRE OF THE STATE OF THE STATE OF THE STATE OF THE PROJECT SITE.
 WOOD TURTLES (SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. SITE OPERATORS SHALL BE INFORMED OF THE POTENTIAL PRESENCE OF THIS SPECIES AND SHALL BE PROVIDED A FLYER THAT HELPS TO IDENTIFY THIS SPECIES ALONG WITH NHFH CONTACT INFORMATION, SEE PLAN SHEET GI-103.

NO SUMPS SHALL BE INCLUDED IN THE DESIGN OF CATCH BASINS WHEN LOCATED NEAR OR WITHIN GRASSY AREAS AND HOODS ON OUTLET PIPES SHALL BE ELIMINATED FROM THE DESIGN TO AVOID THE ENTRAPMENT OF RARE WILDLIFE.

- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, EXCEPT FOR SILT FENCE INSTALLED IN ACCORDANCE WITH ENV-WQ 1506,04, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION. CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH. SEE PLAN SHEET(S) CD-508 AND CD-509 FOR SPECS.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WLDLIFE.NH.GOV. EMAIL SUBJECT LINE: NHB20-2707 EFT TEBBETTS ROAD ROCHESTER, WILDLIFE SPECIES OBSERVATION. PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS
- THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

ADDITIONAL NHF&G RECOMMENDATIONS:

• WETLAND BIRDS INCLUDING THE MARSH WREN, SORA (SPECIES OF SPECIAL CONCERN), AND PIED-BILLED GREBE (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. IF BIRDS ARE OBSERVED TO DISPLAY NESTING BEHAVIOR (FOR EXAMPLE: CALLING, SWOOPING, AGITATED/TERRITORIAL BEHAVIOR), OBSERVERS SHOULD CONTACT THE WILDLIFE DIVISION AT 603-271-2461 OR NHFGREVIEW@WILDLIFE.NH.GOV. PROVIDE NHB NUMBER NHB21-0542 AND PROJECT NAME. MIGRATORY BIRD NESTS ARE PROTECTED UNDER NH AND FEDERAL LAWS.





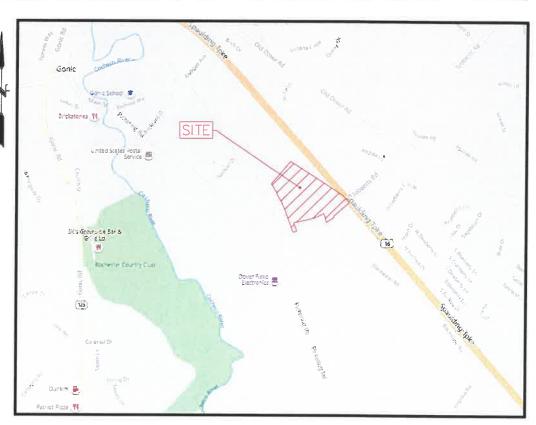
Wood turtle (special concern)

- Sculpted, pyramidal brownish
- River/stream turtle spending many months on land .



SHEET INDEX

SHEET NO.	SHEET NAME COVER SHEET GENERAL NOTES BOUNDARY PLAN LOT OVERVIEW EXISTING CONDITIONS PLAN SITE PAD EXISTING CONDITIONS PLAN SITE PAD DEMOLITION PLAN SITE PAD SITE PLAN SITE PAD DRIVEWAY PROFILE PLAN SITE PAD TRAFFIC - CIRCULATION PLAN SITE PAD TRA	REVISION DATE
GI-001	COVER SHEET	10/26/2021
G1-101 - GI-103	GENERAL NOTES	10/26/2021
BD-101	BOUNDARY PLAN	
EX-101	LOT OVERVIEW EXISTING CONDITIONS PLAN	10/26/2021
EX-102	SITE PAD EXISTING CONDITIONS PLAN	10/26/2021
CP-101	SITE PAD DEMOLITION PLAN	10/26/2021
CS-101	SITE PAD SITE PLAN	10/26/2021
CR-101	SITE PAD DRIVEWAY PROFILE PLAN	10/26/2021
CT-101	SITE PAD TRAFFIC - CIRCULATION PLAN	10/26/2021
CT-102	SITE PAD TRAFFIC DRIVEWAY SIGHT-DISTANCE PLAN	10/26/2021
CG-101	SITE PAD GRADING, DRAINAGE, EROSION CONTROL	
	AND WEILAND IMPACT PLAN	
CU-101	SITE PAD UTILITY PLAN SITE PAD UTILITY LIGHTING PLAN SITE PAD UTILITY SEPTIC PLAN CIVIL DETAILS - PAVEMENT & SIDEWALK	10/26/2021
CU-102	SITE PAD UTILITY LIGHTING PLAN	10/26/2021
CU-103	SITE PAD UTILITY SEPTIC PLAN	10/26/2021
CD-501	CIVIL DETAILS - PAVEMENT & SIDEWALK	10/26/2021
CD-502	CIVIL DETAILS - SIGNAGE & PAVEMENT MARKINGS	10/26/2021
CD-503	CIVIL DETAILS - ELECTRIC, LIGHTING, AND SEWER	10/26/2021
CD-504	CIVIL DETAILS - WATER	10/26/2021
CD-505	CIVIL DETAILS - STORMWATER	10/26/2021
CD-506	CIVIL DETAILS - STORMWATER	10/26/2021
CD-507	CIVIL DETAILS - STORMWATER & TESTPIT DATA	18/26/2021
CD-508	CIVIL DETAILS - EROSION CONTROL	10/26/2021
CD-509	CIVIL DETAILS - EROSION CONTROL CIVIL DETAILS - EROSION CONTROL	10/26/2021
	ARCHITECTURAL PLANS (22"x34" - BY OTHERS)	



LOCATION MAP SCALE: 1" = 1000"

APPROVAL OF THE PLANNING BOARD OF ROCHESTER, NH

Director, Planning & Dev

THE SIGNATURE OF THREE CLOR MORE OF THE PLANNING BOARD MEMBERS INDICATES APPROVAL OF THIS PLAN

CITY DEPARTMENT	REVIEWS	
SIGNATURE	DATE	
ROCHESTER POLICE DEPARTMENT		
ROCHESTER POLICE DEPARTMENT		
ROCHESTER PUBLIC WORKS DEPARTME	NT	

WHICH HAVE OFFERED COMMENTS TO THE PLANNING BOARD.

REQUIRED APPROVALS	PERMIT#	DATE APPROVED	EXPIRATION DATE
PLANNING BOARD			
SITE PLAN	CASE# 257-66-1-21	06/07/2021	12/7/2021
WAIVERS			
SECTION 7(F) - SIGNAGE TO BE REVIEWED PRIOR TO INSTALL	983	06/07/2021	12/7/2021
SECTION 10(A) - ALLOW 38 SPACES WHERE 40 ARE REQUIRED	190	06/07/2021	12/7/2021
DPW - REQUIRED TO BE APPROVED PRIOR TO CONSTRUCTION			
STORMWATER		-	
DRIVEWAY		-	5 - 3
ZONING BOARD			
VARIANCE	Z-21-10	05/12/2021	04/20/2023
275-23.2.A(1)(k) - 1,500SF ACCESSORY/SECURITY APARTMENT			(2-YEARS FROM SUBMITTAL
800SF ALLOWED BY ZONING			l'
NHDES			
ALTERATION OF TERRAIN (AOT)	AoT-2020	09/23/2021	09/23/2026
WETLAND IMPACT PERMIT	2021-00534	10/25/2021	10/25/2026
SEWAGE DISPOSAL SYSTEM	eCA2021111512	11/15/2021	11/15/2024







PROJ. No.: 20200646.A10 DATE: JANUARY 2020 **GI-001**

- SILT - SILT FENCE

COESTER HAYBALES

LEGEND

ASSREVIATIONS

CMP CPP

DCB

HYD HYDRANT

POLYETHYLENE PIPE

ENERAL.			
PRX.	APPROXIMATE	PCC	PRE CAST
IT.	BITUMINOUS		CONCRETE CURB
W	BOTTOM OF WALL	PROP	PROPOSED
C	CONCRETE CURB	REM	REMOVE
CC	CAPE CODE BERM	R&D	REMOVE AND DISPO
ONC.	CONCRETE	R&R	REMOVE AND RESE
LEV	ELEVATION	Ras	REMOVE AND STACE
XIST	EXISTING	TOS	TOP OF SLOPE
C	GRANITE CURB	TW	TOP OF WALL
IAX	MUMIXAM	TYP	TYPICAL
HN .	MINIMUM	VGC	VERTICAL GRANITE
TS	NOT TO SCALE		CURB
THE PERSON			

TINV INVERT ELEVATION CR CATCH BASIN CORRUGATED METAL PIPE PVC
CORRUGATED POLYVINYL CHLORIDE PIPE POLYETHYLENE PIPE RCP DOUBLE CATCH BASIN DUCTILE IRON PIPE ROOF DRAIN FRAME AND GRATE FRAME AND COVER

LEGEND (CONT.)

- UGETC -

FROP

(D)

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STORM DRAINAGE PIPE

SANITARY SEWER PIPE

OVERHEAD WIRES

UNDERGROUND GAS

SANITARY MANHOLE

ELECTRIC MANHOLE

TELEPHONE MANHOLE

DOUBLE CATCHBASIN

WATER WAY VE

FIRE HYDRANT

UTILITY POLE

BOLLARD /POST

SIGN

GAS GATE

LIGHTPOLE

FLARED END

DECIDUOUS TREE

STORM MANHOLE

WATER MAIN

SMH SEWER MANHOLE TSV TAPPING SLEEVE. VALVE AND BOX UP UTILITY POLE

REFERENCE PLANS AND NOTES:

REGULATORY REQUIREMENTS

NHDES INVASIVE SPECIES NOTES

MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

MEASURES AND FROM PERMANENT STORM DRAIN

1. THIS PROJECT DISTURBS 110,000±SF (2.5± AC) OF LAND WHICH EXCEEDS THE NPDES THRESHOLD AMOUNT OF 43,350 SF (1 AC). THEREFORE, THE PROJECT WILL BE REQUIRED TO OBTAIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT COVERAGE AS ISSUED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (FAP). THE OWNER/DEVELOPER AND "OPERATOR" (GENERAL CONTRACTOR) SHALL BE REQUIRED TO PREPARE AND SUBMIT A NOTICE OF INTENT (NOI) TO THE EPA PRIOR TO THE START OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MEETING THE REQUIREMENTS OF THE CURRENT NPDES PE

2. A COPY OF THE NOI AND SWPPP SHALL BE PROVIDED TO THE CITY PLANNING DEPT, AND/OR DPW.

"PARTIAL BOUNDARY; LAND OF EFI EXPRESS;TAX MAP 0257-0066, TEBBETTS ROAD ROCHESTER, NEW HAMPSHIRE, STRAFFORD COUNTY" CREATED BY THIS OFFICE, ON RECORD AT THE CITY OF ROCHESTER PLANNING DEPARTMENT. INCLUDED IN THIS PLAN SET.

1. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE

2. CONTRACTOR TO COORDINATE AND CREATE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL WITH CITY AND/OR NHOOT PRIOR TO START OF CONSTRUCTION, IF REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST OSHA STANDARDS, STATE AND LOCAL

IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.

3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER TYPICAL STANDARDS, DISPOSE OF SEDIMENT IN AN

PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.

UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND

1. IF INVASIVE SPECIES ARE ENCOUNTERED ON SITE AND SHOULD BE REMOVED ACCORDING TO NHDES

REQUIREMENTS.

2. THE CONTRACTOR SHALL TAKE STEPS TO PREVENT THE SPREAD OF INVASIVE PLANT, INSECT, AND FUNGAL SPECIES BY MEETING THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES. HTTP://GENCOURT.STATE.NH.US/RULES/STATE_AGENCIES/AGR3800.HTML

DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY

REQUIREMENTS, AND CITY OF ROCHESTER REQUIREMENTS, POLICIES, AND SPECIFICATIONS

UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS

INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE.

NHDES AOT NOTES:

DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN THE PLANS THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS.

A CONDITION OF THE ALTERATION OF TERRAIN PERMIT ISSUED, REQUIRES ENVIRONMENTAL MONITORING TO OCCUR. IT SHALL BE THE OWNER AND/OR CONTRACTOR'S RESPONSIBILITY TO ACQUIRE NHOES APPROVED ENVIRONMENTAL MONITORING GONETRICATION, FOR WEEKLY MONITORING AND REPORTING.

ENV-ROURES THAT THE PERMIT HOLDER AND A QUALIFIED ENGINEER MUST SUBMIT A CERTIFICATION INDICATING THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND

SPECIFICATIONS, OR THAT DEVIATIONS WERE MADE THAT DID NOT REQUIRE AN AMENDED PERMIT OR NEW

POST CONSTRUCTION, THE PROPERTY OWNER/OPERATOR SHALL SHALL BE RESPONSIBLE FOR MAINTAINING ALL DRAINAGE AND STORMWATER PRACTICES. REFER TO THE ALTERATION OF TERRAIN/DRAINAGE CALCULATIONS FOR THE OPERATION AND MAINTENANCE MANUAL.

SALT SHALL BE APPLIED BY A GREEN SNOW PRO CERTIFIED CONTRACTOR. REFER TO THE INSPECTION AND MAINTENANCE MANUAL FOR THE WINTER MAINTENANCE AND SALT MINIMIZATION PLAN WITH ASSOCIATED

INFORMATION.

IN

NHDES SOURCE CONTROL PLAN REQUIREMENTS:

1. THIS PROJECT DOES NOT MEET THE CURRENT DEFINITION OF A "HIGH LOAD AREA" PER ENV-WQ 1502.30:

2. THERE WILL BE NO EXPOSURE OF REGULATED SUBSTANCES TO PRECIPITATION OR RUNOFF AND NO RELEASE OF REGULATED SUBSTANCES FROM ANY PORTION OF THE SITE:

2.1. ANY LAND USE OR ACTIVITY IN WHICH REGULATED SUBSTANCES ARE EXPOSED TO RAINFALL OR RUNOFF.

WITH THE EXCEPTION OF AREAS WHERE THE ONLY REGULATED SUBSTANCE EXPOSED TO RAINFALL OF

RUNOFF IS ROAD SALT THAT HAS BEEN APPLIED FOR DEICING OF PAVEMENT ON THE SITE;
THERE SHALL BE NO VEHICLE MAINTENANCE OR RELATED OUTDOOR ACTIVITIES THAT INVOLVE THE
TRANSFER, STORAGE OF REGULATED OR HAZARDOUS SUBSTANCES INCLUDING THE USE OF PETROLEUM, COLANT OR OTHER AUTO PRODUCTS/WASTES OUTSIDE THE BUILDING ENVELOPE OR A SOURCE PROTECTION PLAN FROM NHDES WILL BE REQUIRED. NO FLOOR DRAINS ARE PERMITTED IN NH WHEN A REGULATED SUBSTANCE, AS DEFINED UNDER NHDES REGULATIONS, IS ALLOWED TO BE DISCHARGED TO THE GROUND. COLLECTION AND CONTAINMENT TO A HOLDING TANK IS PERMITTED AND REQUIRES CITY/STATE PERMITS PRIOR TO INSTALL

PERMITTED AND REQUIRES CITY/STATE PERMITS PRIOR TO INSTALL

BULK REGULATED PRODUCTS WILL NOT DRAIN TO FLOOR DRAINS THAT DISCHARGE TO THE GROUND OR

EXCEED 1,320 GALLONS ONSITE, TO MAINTAIN AN AMOUNT UNDER THE ABOVE STORAGE TANK THRESHOLD.

THE USE OF 5 GALLON CONTAINERS WITH POTENTIALLY 55 GALLON DRIMS ARE PROSESD ONSITE. ALL

REGULATED SUBSTANCES STORED IN REGULATED CONTAINERS WITHIN STRUCTURES OR OUTDOORS WILL CONFORM TO ENV-WO 401, BEST MANAGEMENT PRACTICES FOR GROUNDWATER PROTECTION

3. A SPILL PREVENTION PLAN IS TO BE COORDINATED WITH THE CITY IN ADDITION TO A SPILL PREVENTION KIT

STORMWATER BASIN MAINTENANCE NOTES:

 EMBANKMENT - THE EMBANKMENT SHOULD BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS, OR EROSION OF THE FILL IS TAKING PLACE.
 VEGETATION - THE VEGETATED AREAS OF THE STRUCTURE SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOIL TESTS. TREES AND SHRUBS SHOULD BE KEPT OFF THE EMBANKMENT AND EMERGE

SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED.

4. OUTLETS - PIPE OUTLETS SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. THE CONDITION

OF THE PIPES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE THEN MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE OUTLET. SEDIMENT - SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS

RESIDENT - SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THEN THE SEDIMENT SHOULD BE REMOVED AND PROPERLY

6. SAFETY INSPECTIONS - ALL PERMANENT IMPOUNDMENTS SHOULD BE INSPECTED BY A QUALIFIED

7. REFER TO THE INSPECTION AND MAINTENANCE MANUAL, LOCATED WITHIN THE ALTERATION OF TERRAIN

DRAINAGE MAINTENANCE NOTES PIPES

STEP 1 - CLEAN OUT PIPE USING THE JETVAC PROCESS

A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" OR MORE IS PREFERRED

APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

STEP 2 - REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS: RECORD OBSERVATIONS AND ACTIONS. STEP 3 - INSPECT AND CLEAN BASINS AND MANHOLES

CATCH BASINS & PIPES

B. INSPECT CATCH BASINS EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.

b. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS

GENERAL PLAN NOTES:

 SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE

PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.

SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET. ALL PLAN SHEETS WILL BE ON FILE AT THE CITY OF ROCHESTER. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

FOR MORE INFORMATION ABOUT THIS SITE PLAN CONTACT DESIGN ENGINEERS, CONTACT INFORMATION IS ON THE COVER SHEET.

DEMOLITION PLAN NOTES:

1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE AREAS AND LOCATIONS OF DEMOLITION ON THE SUBJECT

2. REMOVE AND DISPOSE OF EXISTING STUMPS AND UNSUITABLE MATERIAL IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS

NHDES STANDARDS.

REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND OTHER DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

4. NO CHANGES ARE PROPOSED OUTSIDE OF THE VISIBLE CONTENT PRESENTED ON THIS PLAN. SEE EXISTING

CONDITIONS PLAN SHEET FOR AN OVERVIEW OF THE PROJECT AREA

ANY BUILDING TO BE REMOVED FROM THE SITE MUST HAVE A DEMOLITION PERMIT. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

PROPOSED DRAINAGE SCHEDULE

FROM	INV OUT	то	INV IN	L (FT)	SLOPE	DIA.	TYPE
FES33	190.20	FES32	186.00	45	0.093	30"	CMP
CB11	191.60	FES16	191.50	23	0.004	12"	HDPE
CB12	191.80	CB11	191.70	20	0.005	12"	HDPE
CB13	189.70	CB14	189.60	20	0.005	12"	HDPE
CB14	189.50	FES15	189.45	11	0.005	12"	HDPE
CB21	192.65	CB23	192.15	101	0.005	12"	HDPE
CB22	192.65	CB23	192.15	99	0.005	12"	HDPE
CB23	191.65	CB26	191.10	63	0.009	18"	HDPE
CB25	191.75	CB26	191.60	27	0.005	12*	HDPE
CB26	191.00	FES25	190.00	61	0.016	18"	HDPE
DMH30	190.80	FES31	188.05	67	0.071	12"	HDPE

AINAGE SCHEDULE NOTES: DESIGNED WITH A MINIMUM 3' OVER OVER ALL DRAINAGE LINES. REFER TO DETAILS SHEET FOR STRUCTURE AND PIPE RUN DETAILS

CB11 196.9 4 CB12 196.8 4 C813 193.7 4 CB14 193.7 4 CB21 196.6 4 CB22 196.6 4 CB23 196.5 4 CB25 195.8 4 CB26 195.3 4 DMH30 190.0 N/A FES15 191.5 N/A FES16 190.0 N/A FES25 190:6 N/A FES31 190.2 N7A FES32 186.0 N/A FES33 192.1 N/A

DRANAGE

STRUCTURE

TABLE

STRUCTURE RIM DIA.

PROPOSED SEWER SCHEDULE PROPOSED STRUCTURES:

SHILL DING#1 BUILDING#2

INV. OUT (6" PVC) = 191.80 L =95', 6" PVC, 5 = 0.027

INV. DUT (6" PVC) = 191.80 L =23', 6" PVC, 5 = 0.083 SEPTIC TANK - 3,000 GALLON

RIM = 197.0± INV. IN (6" PVC) = 188.25 (ALL INVERTS) INV. OUT (6" PVC) = 188.00 (TO LEACHFIELD) SEE SEPTIC PLAN CU-103 FOR MORE INFORMATION

SEWER SCHEDULE NOTES:

1. SEE DETAIL SHEET CU-103 FOR ADDITIONAL SYSTEM DESIGN INFORMATION
2. MINIMUM 60 'COVER OVER ALL SEWER LINES AND SEWER SERVICES.

3. IN AREAS WITH LESS THAN 6' COVER, INSTALL 2' THICK X 5' WIDE BLUEBOARD INSULATION ABOVE SEWER LINE.

4. REFER TO DETAILS SHEET FOR STRUCTURE AND PIPE RUN DETAILS.

5. INSTALL CLEANOUTS AT ALL BENDS AND A MAXIMUM OF EVERY 75'.

PROPOSED SEWER FLOWS
PER TABLE 1008-1 OF ENV-WQ 1000
FACTORIES/WAREHOUSE (10 GPD PER EMPLOYEE)
TRANSIENTS (SGPD/TRANSIENT)
2BR ACCESSORY/SECURITY APARTMENT
SECRETARY AND GROUND WITH 3-WAY HOOKUP (60GPD/SITE) = TWO (2) SITES

= 4 EMPLOYEES NOW, 10 IN FUTURE
= UP TO 10 TRANSIENTS PER DAY
= 50 GALLONS PER DAY
= 300 GALLONS PER DAY
= 120 GALLONS PER DAY
= 120 GALLONS PER DAY

TOTAL ESTIMATE FLOW = 570 GALLONS PER DAY DESIGN FOR MINIMUM OF 600 GALLONS PER DAY

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EFI

GENERAL NOTES
PLAN TAX MAP 257

PROJ. No.: 20200646,A10 DATE: JANUARY 2021

GI-101

RECORD IS EFI EXPRESS, LLC. WITH A LEGAL ADDRESS OF 61 THOMPSON MILL ROAD, LEE, NH 03861 PROPERTY LINE/BOUNDARY LINE INFORMATION IS BASED ON REFERENCE PLAN 1, ACTUAL FIELD SURVEY WAS

PERFORMED ON THE GROUND BY THIS OFFICE BETWEEN OCTOBER AND NOVEMBER OF 2020.

HORIZONTAL DATUM IS NH STATE GRID/CITY OF ROCHESTER GIS NADB3/92. VERTICAL DATUM IS NAVD88.

EXISTING CONDITIONS AND TOPOGRAPHY IS BASED ON A COMBINATION OF ACTUAL GROUND SURVEY FROM REFERENCE PLAN \$1 COLLECTED BETWEEN OCTOBER AND NOVEMBER OF 2020, AERIAL SURVEY, CITY OF ROCHESTER GIS MAPPING. AND ONLINE NOAA CONTOURS, OFFSITE INFORMATION OF RESIDENCES WAS SUPPLEMENTED WITH AXIS GIS APPRAISAL AND CITY OF ROCHESTER GIS INFORMATION. F&O DID NOT PERFORM FULL GROUND SURVEY. NO REPRESENTATION OR WARRANTY IS MADE AS TO NON-SURVEY FEATURES OF REFERENCE

PER THE CURRENT CITY OF ROCHESTER ZONING ORDINANCE: THE SUBJECT PROPERTY IS ZONED GENERAL INDUSTRIAL (GI) DISTRICT ALONG WITH ABUTTING PROPERTIES TO THE NORTHWEST. PROPERTIES TO THE SOUTH AND SOUTHEAST ARE ZONED AGRICULTURAL DISTRICT, AND PROPERTIES OPPOSITE OF NH ROUTE 16 ARE ZONED RESIDENTIAL. ZONING REQUIREMENTS FOR THE GI ZONING DISTRICT ARE AS FOLLOWS:

	REQUIRED:	EXISTING LOT:
MIN. LOT SIZE	40,000 SF	28.6±AC (PER TAX CAR
MIN. LOT FRONTAGE	100'	580'±
MIN. FRONT SETBACK	25'	N/A
MIN. SIDE SETBACK	20°	N/A
MIN. REAR SETBACK	25'	N/A
MIN. BUILDING SETBACK TO RESIDENTIAL LOT	100'	N/A
MAX. LOT COVERAGE	75%	N/A
MAX. BUILDING HEIGHT	55'	N/A

MINIMUM LOT AREA CALCULATION: "MINIMUM LOT AREA" DOES NOT INCLUDE VERY POORLY DRAINED (GROUP 6) SOILS.

"USABLE AREA" IS DEFINED AS A 3,000 SF RECTANGLE (MIN 30' WIDTH) THAT CAN BE FIT INSIDE THE LOT: NOT TO ENCOMPASS SETBACKS, WETLANDS, WETLAND BUFFERS, OR SLOPES GREATER THAN 25%.

TOTAL LOT AREA \pm 28.6 \pm ACRES (PER TAX CARD) A FULL BOUNDARY WAS NOT PERFORMED FOR THIS SUBMITTAL, ONLY A PARTIAL BOUNDARY WAS PREPARED ILLUSTRATING THE UPLAND AREA TO BE UTILIZED FOR DEVELOPMENT

PLAN SHEET CP-101 ILLUSTRATES A 28,000SF (200°W X 140°H) "USABLE AREA" RECTANGLE THAT FITS INSIDE THE LOT AND DOES NOT ENCOMPASS SETBACKS, WETLANDS, WETLAND BUFFERS, OR SLOPES GREATER THAN

- ONSITE WETLANDS WERE DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. ON SEPTEMBER 15, 2020. WETLANDS WERE DELINEATED UTILIZING THE FOLLOWING STANDARDS:
- 8.1. US ARMY CORPS OF ENGINEERS REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, TECHNICAL REPORT ERDC/EL TR-12-1
- (JANUARY 2012).

 8.2. FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND VERSION 4, JUNE 2020, NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE.
- US ARMY CORPS OF ENGINEERS NATIONAL WETLAND PLANT LIST, 2018.
- CLASSIFICATION OF WETLANDS AND DEEPWATER HABITATS OF THE UNITED STATES. USFW MANUAL

FWS/OBS-79/31 (1979).
THIS PROPERTY IS NOT CURRENTLY SERVICED BY PRIVATE OR PUBLIC UTILITIES.

- 10. THE SUBJECT PARCEL OF LAND IS LOCATED IN ZONE X AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP(S) FIRM 330.17C0214D, EFFECTIVE DATE: MAY 17, 2005. FLOOD ZONE X IS NOT A SPECIAL FLOOD HAZARD AREA, AND DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN.

 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING
- CONDITIONS SURROUNDING IT AND THEREON.
- 12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING FEATURES BOTH ABOVE GROUND AND BELOW, NO GUARANTEE IS MADE BY THIS OFFICE OR INDIVIDUALS OF LOCATION OF EXISTING FEATURES. UNDERGROUND UTILITIES ARE APPROXIMATE BASED ON REFERENCES LOCATED ON THE BOUNDARY.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND FLEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT NEW HAMPSHIRE DIG SAFE, AT 1-RRR-DIG-SAFE, AT HOURS BEFORE DIGGING.
- 14. IF ANY ERROR OR OMISSION IN THESE PLANS IS DISCOVERED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IMMEDIATELY IN WRITING FOR DIRECTION ON HOW TO PROCEED. THE CONTRACTOR SHALL DISCONTINUE WORK IN THE AFFECTED PROJECT AREA UNTIL AGREEMENT HAS BEEN REACHED WITH THIS FIRM ON CORRECTIVE ACTION.
- 15. SEE DETAIL SHEET CD-507 FOR TEST PIT DATA.
- IF ANY ERROR OR OMISSION IN THESE PLANS IS DISCOVERED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IMMEDIATELY IN WRITING FOR DIRECTION ON HOW TO PROCEED. THE CONTRACTOR SHALL DISCONTINUE WORK IN THE AFFECTED PROJECT AREA UNTIL AGREEMENT HAS BEEN REACHED WITH THIS FIRM ON CORRECTIVE ACTION.
- 17. THE SITE SPECIFIC SOIL SURVEY WAS PRODUCED JANUARY 18, 2021, AND WAS PREPARED BY JAMES P. GOVE, CSS # 004, GOVE ENVIRONMENTAL SERVICES, INC. THE SURVEY AREA IS LOCATED AT TIBBETTS ROAD, ROCHESTER,
- 17.1. THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PURPOSE PRODUCT, INTENDED FOR INFILITATION REQUIREMENTS BY THE NH DES ALTERATION OF TERRAIN BUREAU. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST, AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCES CONSERVATION SERVICE. THERE IS A REPORT THAT ACCOMPANIES THIS MAP.
- ACCOMPANIES THIS MAP.

 17-2. SOILS WERE IDENTIFIED WITH THE NEW HAMPSHIRE STATE-WIDE NUMERICAL SOILS LEGEND, USDA NRCS, DURHAM, NH. ISSUE \$ 10, JANUARY 2011. THE NUMERIC LEGEND WAS AMENDED TO IDENTIFY THE CORRECT SOIL COMPONENTS OF THE COMPLEX.

 17-3. HYDROLOGIC SOIL GROUP FROM KSAT VALUES FOR NEW HAMPSHIRE SOILS, SOCIETY OF SOIL SCIENTISTS OF
- NEW ENGLAND, SPECIAL PUBLICATION NO. 5, SEPTEMBER, 2009.

 17.4. SOIL BOUNDARIES ARE SHOWN PER THE SITE SPECIFIC SOIL SURVEY REPORT AND INCLUDE THE FOLLOWING:

 SSSS SYMBOL SOIL NAME SOIL GROUP DRAINAGE CLASS

24	AGAWAM FINE SANDY LOAM	8	WD
38	ELDRIDGE FINE SANDY LOAM	С	MWD
300	UDIPSAMMENTS	A	WD
350	UDIPSAMMENTS, WET SUBSTRATUM	С	MWD
393	TIMAKWA MUCK	Ð	VPD
900	ENDOAQUENTS, SANDY	D	PD/VPD

WD-WELL DRAINED, MWD-MODERATELY WELL DRAINED, PD-POORLY DRAINED, VPD-VERY POORLY DRAINED

SLOPE PHASE: B = 0-8%, C = 8-15%, D=15-25%, E= 25%-

SITE PLAN NOTES:

- 1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE PROPOSED SITE IMPROVEMENTS FOR THE CONSTRUCTION OF A HIGH PERFORMANCE/SPECIALTY MECHANIC/AUTOMOTIVE FACILITY ON THE SUBJECT PARCEL LOCATED. TWO BUILDINGS ARE PROPOSED, BUILDING #1 IS A PROPOSED 5,775 SF SERVICE AND OFFICE BUILDING WITH AN ADDITIONAL MEZZANINE STYLE 1,500 SF SECURITY ACCESSORY APARTMENT: BUILDING #2 IS A 6,000 SF VEHICLE AND PARTS STORAGE BUILDING
- PROPERTY LINE/BOUNDARY LINE INFORMATION IS BASED ON REFERENCE PLAN 1.
- PROPOSED USE ON THE LOT FOR TAX MAP 257 LOT 66, IS AN ALLOWED USE OF COMMERCIAL MECHANIC.
 PER THE CURRENT CITY OF ROCHESTER ZONING ORDINANCE; THE SUBJECT PROPERTY IS ZONED GENERAL
- INDUSTRIAL (GI) DISTRICT. ZONING REQUIREMENTS FOR THE GI ZONING DISTRICT ARE AS FOLLOWS.

MIN. LOT SIZE 40,000 SF 28.6±AC TWO BUILDINGS 80,000 SF MIN. LOT FRONTAGE 100' 580'± MIN. FRONT SETBACK 25' N/A	N/C N/C 457'± 24'± 815'±
MIN. LOT FRONTAGE 100' 580'±	457'± 24'± 815'±
	457'± 24'± 815'±
MIN, FRONT SETBACK 25' N/A	24'± 815'±
	815'±
MIN. SIDE SETBACK 20' N/A	
MIN. REAR SETBACK 25' N/A	
MIN. BUILDING SETBACK TO 100' N/A RESIDENTIAL LOT	417'± BLDG#1 TO 14 TEBBETTS
MAX. LOT COVERAGE 75% N/A	4.5%±
MAX. BLDG HEIGHT 55' N/A	23'6"'± BLDG#2
NO DISTURB WETLAND BUFFER 25' N/A	CU REQUESTED
SIGNAGE FREESTANDING	
MIN. AREA 75 SF N/A	N/A
MAX. HEIGHT 30' N/A	N/A
SIGNAGE-BUILDING	
MAX. AREA 10% OF FRONT N/A ENTRANCE WALL AREA	N/A

5. LOT COVERAGEA AREA

TOTAL LOT AREA = 28.6± ACRES

TOTAL IMPERVIOUS AREA = 1.3± ACRES (56.410SF) BUILDING AREA CALC = 28.6± ACRES/ 1.3± ACRES

6. PARKING CALCULATIONS PER SECTION 10(A) OF THE SITE PLAN REGULATIONS

AUTOMOTIVE SERVICES

1.5 SPACES PER 1,000 SF = (5,775 SF / 1,000) 8* 1.5 4 SPACES REQUIRED

= 4 SPACES PER BAY = 4*7 28 SPACES REQUIRED

STORAGE AND WAREHOUSE = 1 SPACE PER 1,000 SF = 6,000 SF /1000 6 SPACE REQUIRED

ACCESSORY SECURITY = 2 SPACES REQUIRED **APARTMENT**

TOTAL SPACES = 40 SPACES REQUIRED 38 SURFACE SPACES PROVIDED (2 ADA) WITH AN ADDITIONAL 22± INTERNAL SPACES WAIVER REQUIRED

- ALL PLAN SHEETS WILL BE ON FILE AT THE CITY OF ROCHESTER PLANNING DEPARTMENT.
- B. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET. 9. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DRAWINGS. THE
- OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS 10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING
- CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE. 11. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WILL ALL LOCAL, STATE AND NATIONAL
- CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS.

 12. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE, THESE PLANS, PREPARED BY FUSS & O'NEILL, INC. DO NOT EXTEND TO OR INCLUDE SYSTEM PERTAIN TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE SURVEYOR OR ENGINEER HERE ON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEM WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
- 13. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS. IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS
- THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THEIR WORK AT ALL TIMES.
- 15. IF ANY ERROR OR OMISSION IN THESE PLANS IS DISCOVERED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IMMEDIATELY IN WRITING FOR DIRECTION ON HOW TO PROCEED. THE CONTRACTOR SHALL DISCONTINUE WORK IN THE AFFECTED PROJECT AREA UNTIL AGREEMENT HAS BEEN REACHED WITH THIS FIRM ON CORRECTIVE ACTION.
- 16. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE CITY OF ROCHESTER SITE PLAN
 REGULATIONS, CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS, AND THE LATEST
 EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF ROCHESTER
- 17. THE DRIVEWAY IS DESIGNED TO ACCOMMODATE THE CITY OF ROCHESTER EMERGENCY VEHICLE 48' FIRE TRUCK CIRCULATION NEEDS.
- 18. SNOW SHALL BE STORED IN OPEN AREAS ON SITES. SNOW SHALL NOT BLOCK SIGHT DISTANCES AND SHALL BE TRANSPORTED OFFSITE OR INTO OPEN AREAS IF NEEDED, SNOW SHALL NOT BE STORED WITHIN INFILTRATION BASINS, OFFSITE TRANSPORT OF SNOW SHALL BE DONE SO IN ACCORDANCE WITH NHDES REGULATIONS.
- FERTILIZER SHALL BE HANDLED IN ACCORDANCE WITH RSA 431:33 TO 35, OR AS AMENDED. SEE MANUAL OF BEST management practices for agriculture in New Hampshire as prepared by New Hampshire department OF AGRICULTURE, AUGUST, 1993 OR AS AMENDED.
- A SEPARATE PERMIT IS REQUIRED FOR ALL SIGNS. SITE SIGNAGE SHALL BE REVIEWED AND APPROVED BY THE CITY PRIOR TO INSTALLATION. SIGNAGE IS REQUIRED PRIOR TO CITY C.O.
- 21. ALL STATE PERMITS WILL BE PROVIDED TO THE PLANNING DEPARTMENT UPON RECEIPT.
- 22. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION

LIGHTING PLAN NOTES:

- THE PURPOSE OF THIS PLAN IS TO SHOW PROPOSED LIGHTING FOR THE SUBJECT PROPERTY. THIS ANALYSIS WAS PERFORMED AND PROVIDED BY KEN SWEENEY CHARRON INC. 603-624-4827, KSWEENEY@CHARRONINC.COM
- THE PROFESSIONAL ENGINEER ENDORSEMENT BY FAO ON THIS SHEET DOES NOT INCLUDE DESIGN ENDORSEMENT OF THIS DETAILED INFORMATION. CONTACT CHARRON INC. FOR ADDITIONAL INFORMATION.
- 3. ALL SITE LIGHTING IS TO COMPLY WITH ALL PROVISIONS OUTLINED WITHIN THE CITY OF ROCHESTER REGULATIONS
- LIGHTING CONDUIT DESIGNED BY OTHERS.
- 5. SEE DETAIL SHEETS FOR LIGHTING DETAILS.

GRADING, DRAINAGE, AND EROSION CONTROL PLAN NOTES:

- THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE THE PROPOSED GRADING, DRAINAGE, STORMWATER MANAGEMENT, AND EROSION CONTROL SITE IMPROVEMENTS FOR THE SUBJECT PARCEL.
- SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS, NOT ALL FEATURES ARE DETAILED ON EVERY PLAN. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET. ALL PLAN SHEETS WILL BE ON FILE AT THE CITY OF ROCHESTER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL VERIFY TEMPORARY BENCH MARKS (TBMS) identified on reference plans prior to construction and notify the certified land surveyor or any DISCREPANCIES
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING FEATURES BOTH ABOVE GROUND AND BELOW, NO GUARANTEE IS MADE BY THIS OFFICE OR INDIVIDUALS OF LOCATION OF EXISTING FEATURES. UNDERGROUND UTILITIES ARE APPROXIMATE BASED ON REFERENCES LOCATED ON THE COVER SI
- ALL DRAINAGE STRUCTURES IN PAVEMENT SHALL HAVE RIMS SET TO FINISH GRADE REGARDLESS OF ANY ELEVATIONS OTHERWISE SHOWN. DRAINAGE PIPE LENGTHS NOTED ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS
- ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION
- OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN THE PLANS THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE NHDES STANDARDS. THE DETAILS PROVIDED SERVE AS A GUIDE ONLY.
- 10, IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO INSTALL THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE MUNICIPALITY.
- 11. ALL PROPOSED AND EXISTING CATCH BASINS, THAT MAY RECEIVE STORMWATER RUNOFF FROM THE DEVELOPMENT DURING CONSTRUCTION, SHOULD BE OUTFITTED WITH INLET PROTECTION.
- 12. VERIFY TBM ELEVATIONS PRIOR TO CONSTRUCTION.
- 13. THE CONTRACTOR SHALL STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORM WATER
- 14. INSTALL UNDERDRAIN IN ALL CUT SECTIONS. DAYLIGHT TO STORMWATER BASIN, SWALE, OR CONNECT TO CATCH
- 15. FLUSH CLEAN AND REMOVE ALL DEBRIS OF EXISTING AND PROPOSED CULVERTS DURING AND POST CONSTRUCTION.
- 16. INSPECT EXISTING CONDITION OF ALL PIPES/CULVERTS/HEADWALLS DURING CONSTRUCTION, REPLACE AS NECESSARY.
- 17. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 AND STEEPER.
- 18. REMOVE ALL UNSUITABLE MATERIALS ENCOUNTERED DURING EXCAVATIONS AND REPLACE WITH SUITABLE FILL. CONTRACTOR TO COORDINATE ADDITIONAL TEST BORINGS, TEST PITS, AND COORDINATE WITH A GEOTECHNICAL
- 19. IF LEDGE IS DISCOVERED DURING EXCAVATION, REMOVE LEDGE A MINIMUM OF TWO (2) FEET BELOW GRAVELS AND REPLACE WITH SAND.
- 20. ORANGE CONSTRUCTION/SNOW FENCE IS TO BE INSTALLED AROUND ALL WETLANDS WITHIN 100' OF PROPOSED GRADING, AND IS TO BE MAINTAINED DURING ALL SITE CONSTRUCTION
- CONTRACTORS LOAM AND SEED ALL DISTURBED AREAS PER DETAIL LOCATED WITHIN THIS PLAN SET.
- 22. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

BUILDING AND UTILITY PLAN NOTES:

- UTILITY LOCATIONS AS SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM VARIOUS SOURCES AND THEIR LOCATIONS ARE ONLY APPROXIMATE. BEFORE ANY CONSTRUCTION ACTIVITY BEGINS, THE CONTRACTOR SHALL CONTACT DIG-SAFE AT 1-888-DIG-SAFE AND FIELD VERIFY ALL UTILITY LOCATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING IF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION SHALL BE AGREED TO BY THE ENGINEER REFORE PROCEEDING WITH THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT NEW HAMPSHIRE DIG SAFE, AT 1-888-DIG-SAFE, AT LEAST
- 3. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES OWNING UTILITIES, EITHER OVERHEAD OR UNDERGROUND, WITHIN THE CONSTRUCTION AREA. THE PROTECTION OR RELOCATION OF UTILITIES IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL COORDINATE MATERIALS AND INSTALLATION SPECIFICATIONS WITH THE INDIVIDUAL UTILITY AGENCIES/COMPANIES, AND ARRANGE FOR ALL INSPECTIONS
- INSTALLATION OF ALL UTILITIES SHALL BE UNDERGROUND.
- COORDINATE WITH ELECTRIC UTILITY COMPANY FOR FINAL ELECTRICAL LAYOUT.
- INSTALL 2" THICK X 5' WIDE BLUEBOARD INSULATION ABOVE SEWER LINE IN ANY AREAS WITH LESS THAN 6' COVER, AND ABOVE WATER LINE IN ANY AREAS WITH LESS THAN 5.5' COVER (TYP)
- PRIOR TO THE DATE OF APPROVAL OF THESE DESIGN PLANS; FINAL MECHANICAL, ELECTRICAL, PLUMBING (MEP), AND ARCHITECTURAL PLANS WERE NOT PROVIDED TO THE DESIGN ENGINEER. PRIOR TO CONSTRUCTION THE MED CONTRACTORS AND ARCHITECTS ARE REQUIRED TO REVIEW, APPROVE, AND/OR AMEND ALL MEP AND ARCHITECTURAL DESIGN WITHIN THE BUILDINGS OR UPON THE SITE. INCLUDING BUT NOT LIMITED TO SIZES, MATERIALS, ELEVATIONS, AND OVERALL DESIGN. COORDINATE WITH THE MUNICIPALITY AND DESIGN ENGINEER. FOR ALL PLAN REVISIONS.
- A MINIMUM 10' HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL WATER AND SEWER UTILITIES. AT MAIN AND SERVICE CROSSINGS WHERE 10' HORIZONTAL SEPARATION IS NOT POSSIBLE, AN 18" VERTICAL CLEARANCE SHALL BE PROVIDED WITH WATER OVER SEWER. (TYP) 10. EXTERNAL FIRE LANES ARE NON DEMARCATED AND PARKING SPACES ARE ILLUSTRATED UPON THE PLAN
- 11. COORDINATE WITH THE CITY TO PROVIDE ANY REQUIRED PERFORMANCE GUARANTEES, TO SERVE AS A FINANCIAL SURETY IN THE EVENT OF ABANDONMENT, INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROLS THROUGHOUT THE CONSTRUCTION PERIOD, AND FULL AND FINAL COMPLETION OF PUBLIC
- ALL RETAINING WALLS SHALL HAVE DESIGN DRAWINGS STAMPED BY A STATE OF NH LICENSED PROFESSIONAL STRUCTURAL ENGINEER, AND SUBMITTED TO THE CITY FOR REVIEW.
- 13. THE FOLLOWING PERMITS ARE REQUIRED BY ROCHESTER DPW, PRIOR TO CONSTRUCTION:
- 13.1. EXCAVATION PERMIT
- 13.2. STORMWATER PERMIT
- 13.3. DRIVEWAY/CURB CUT PERMIT
- 13.4. WATER CONNECTION PERMIT
- 13.5. CROSS CONNECTION CONTROL DEVICE APPROVAL AND REGISTRATION
- 14. ARCHITECTURAL PLANS ARE TO BE COORDINATED WITH THE FIRE DEPARTMENT, PRIOR TO CITY SIGN OFF, TO ENSURE LIFE SAFETY/EMERGENCY EGRESS REQUIREMENTS ARE MET.
- 15. COORDINATE WATER USAGE ESTIMATES FOR SERVICE AND METER SIZING WITH DPW. CITY MAY REQUIRE AN ABOVE GRADE ENCLOSURE FOR METER AND BACKFLOW DEVICES, AT ENTRANCE.
- 16. REFER TO NOTICE OF DECISION BY PLANNING BOARD ON SHEET GI-103. FOR ALL CONDITIONS OF APPROVAL
- 17. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION

BAP BAP A G B A G B AND F&G WETLANDS NHDES
OTT, DES WETLANDS, A
CITY, DES WETLANDS, A
CITY TRG, PB, AOT, & N
CITY TRG COMMENTS
NESCRIPTION FR FR FR FR REVS REVS REVS REVS 72021 72021 72021 PHONSE DUBOIS III No. 11921 JU25/2021 CENSE O'NEIL FUSS.

> % A GENERAL NOTES PLAN LOT TAX MAP 257 I

PROJ. No.: 20200646,A10 DATE: JANUARY 2021

- 1. PLAN MODIFICATIONS, THE PLAN DRAWINGS ARE TO BE MODIFIED AS FOLLOWS:
- B. CURRENT TOTAL PROPOSED PAVED WIDTH WITH CURBS IS 26 FEET. PLEASE REDUCE THE WIDTH OF DRIVEWAY TO 22 FEET WITH 1-FT MOUNTABLE LOW PROFILE CAPE COD CURBS TO DIRECT STORMWATER TO CBS AND TREATMENT. PROVIDE 1 FOOT GRAVEL SHOULDERS ON THE BACK OF THE CURBING TO FOR TIRES OF LARGE VEHICLES THAT PASS ON THE DRIVEWAY AND NEED TO PULL WIDE TO PASS, MOUNTING THE CURB, GRADING AT EXISTING LIMITS OF THE PAVED DRIVE SHOULD BE SIMILAR TO PROPOSED GRADING, DRAINING AWAY FROM DRIVE OUTSIDE GRAVEL SHOULDERS, REVISE CROSS-SECTION ON SHEET CD-501.
- b. REVISE PLANS TO SHOW 8-INCH WATER SPLITTING TO FIRE AND DOMESTIC PRIOR TO ENTERING THE FIRST BUILDING WITH NO TEES OR CONNECTIONS OTHER THAN HYDRANTS PRIOR TO THAT BUILDING. THE SERVICES MUST BE FIT WITH METER AND BACKFLOW DEVICES IMMEDIATELY UPON ENTRY TO BUILDING. ALL DOMESTIC AND FIRE WATER SERVICE TO OTHER BUILDINGS AND THE RY HOOKUPS MUST DOCUR AFTER THE METER AND BACKFLOW DEVICES. A HIGH HAZARD RPZ BACKFLOW DEVICE IS REQUIRED ON THE DOMESTIC SERVICE FOR THIS USE.
- C. THE SEWER TRENCH DETAIL ON SHEET CD-503 INCORRECTLY REFERENCES WATER MAIN AND POLYWRAP
- d. REMOVE WATER METER VAULT DETAIL ON SHEET CD-503.
- e. CITY OF ROCHESTER HAS STANDARDIZED ON THE AMERICAN DARLING 884 HYDRANT, PLEASE NOTE,
- 2. PLAN NOTES, ADD THE FOLLOWING NOTES (OR EQUIVALENT) TO THE PLAN DRAWINGS:
- a. ADD NOTES TO SHEET CU-101 TO REFERENCE DETAIL FOR WATER AND DRAIN CROSSING ON SHEET CD-504 (TYPICAL OF SEVERAL LOCATIONS
- b. SHEET GI-102 EXISTING CONDITIONS NOTES INDICATE EXISTING LOT HAS SEPTIC AND WELL. IF EXISTING WELL AND SEPTIC ARE ON SITE. SHOW TO BE DECOMMISSIONED OR REVISE/REMOVE NOTE.
- 3. STATE PLANE COORDINATES. THE PLANS ARE TO BE TIED INTO THE STATE PLANE COORDINATE SYSTEM.
- 4. PLEASE PROVIDE THE PLANNING DEPARTMENT WITH COPIES OF ACT REVIEW COMMENTS AND ANY REVISED SUBMISSIONS, WHEN AND IF APPLICABLE (SEND TO DEPARTMENT OF PUBLIC WORKS).
- 5. PLEASE SUBMIT YOUR SPILL PREVENTION PLAN TO THE PLANNING DEPARTMENT,
- 6. INSPECTIONS, THE APPLICANT MUST SIGN THE AGREEMENT FOR PAYMENT OF INSPECTION FEES AND MAKE A CASH DEPOSIT TO COVER THE EXPECTED COSTS OF INSPECTIONS, IN AN AMOUNT THAT IS DETERMINED BY THE PUBLIC WORKS DEPARTMENT. (THE INSPECTIONS WILL BE CONDUCTED BY THE CITY OF ROCHESTER PUBLIC WORKS DEPARTMENT OR ITS DESIGNEE. THE APPLICANT MUST PAY FOR INSPECTIONS -- AT AN HOURLY RATE AS DETERMINED BY THE PUBLIC WORKS DEPARTMENT - OF THE SITE, INCLUDING ALL NEW INFRASTRUCTURE SERVING THE SITE)
- IN ACCORDANCE WITH RSA 676:4-B THE PUBLIC WORKS DEPARTMENT MAY, AT ITS DISCRETION DEPENDENT ON PROJECT COMPLEXITY, REQUIRE 3RD PARTY CONSTRUCTION INSPECTION OF ALL SUBDIVISION PLAN IMPROVEMENTS. PAYMENT OF CONSTRUCTION INSPECTION SERVICES BY THE APPLICANT WHETHER PERFORMED BY A 3RD PARTY FIRM OR DPW WILL BE VIA A SIGNED CONSTRUCTION INSPECTION SERVICES AGREEMENT. ALL REQUIRED SUBDIVISION PLAN IMPROVEMENTS SHALL ADDITIONALLY BE SUBJECT TO INSPECTION BY THE CITY ENGINEER OR DESIGNEE WHO SHALL ACT AS THE AGENT OF THE BOARD IN ENFORCING THE STANDARDS AND SPECIFICATIONS CALLED FOR IN THESE
- 8. PRE-CONSTRUCTION MEETING, THE PRE-CONSTRUCTION MEETING AGREEMENT IS TO BE SIGNED BY THE PROPERTY
- OTHER PERMITS. ALL REQUIRED STATE AND FEDERAL PERMITS MUST BE OBTAINED -- INCLUDING ANY WATER AND SEWER, AS APPROPRIATE -- WITH COPIES OF PERMITS OR CONFIRMATION OF APPROVALS DELIVERED TO THE PLANNING
- 10. DRAINAGE MAINTENANCE. IF APPLICABLE, A DRAINAGE MAINTENANCE AGREEMENT APPROVED BY PUBLIC WORKS MUST BE EXECUTED. IN ORDER TO COMPLY WITH THE STORMWATER MANAGEMENT IOP MANUAL, DPW STAFF SHALL BE ALLOWED PERIODIC ACCESS TO THE PARKING AREAS FOR INSPECTIONS RELATED TO THE ANNUAL STORMWATER NFRASTRUCTURE REPORT COMPILED FOR THE CITY ENGINEE
- 11. FINAL DRAWINGS, (A) THREE SETS OF LARGE BLACK-LINE PLUS (B) ONE SET OF 11"X17" FINAL APPROVED SITE PLAN DRAWINGS PLUS (C) ONE ELECTRONIC VERSION BY PDF OR FLASH DRIVE MUST BE ON FILE WITH THE CITY, FACH INDIVIDUAL SHEET IN EVERY SET OF DRAWINGS MUST BE STAMPED AND SIGNED BY THE LAND SURVEYOR, ENGINEER, OR ARCHITECT RESPONSIBLE FOR THE SITE PLANS. (THE APPLICANT NEED ONLY SUBMIT ADDITIONAL BLACK-LINE SETS OF DRAWINGS OR INDIVIDUAL SHEETS, AS NEEDED TO MAKE FOUR COMPLETE SETS - CONSULT THE PLANNING DEPARTMENT). AT THE DISCRETION OF THE PLANNING DEPARTMENT, AT THE DISCRETION OF THE PLANNING DEPARTMENT MINOR CHANGES TO DRAWINGS (AS REQUIRED IN PRECEDENT CONDITION, ABOVE) MAY BE MARKED BY HAND. NOTE: IF THERE ARE SIGNIFICANT CHANGES TO BE MADE
 TO THE PLANS, AS SPECIFIED ABOVE, ONE FULL SIZE PAPER CHECK PRINT MUST BE SENT TO THE PLANNING
 DEPARTMENT FOR REVIEW PRIOR TO PRODUCING THESE FINAL DRAWINGS. ONCE THE PLAN IS RECORDED AT THE REGISTRY OF DEEDS, SUBMIT TWO 11" X 17" RECORDED COPIES OF THE PLAN.

CITY OF ROCHESTER GENERAL AND SUBSEQUENT CONDITIONS ALL OF THE CONDITIONS BELOW ARE ATTACHED TO THIS APPROVAL.

- EROSION CONTROL SHALL BE PROPERLY INSTALLED ON SITE PRIOR TO ANY CONSTRUCTION, EROSION CONTROL SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION: ANY BREAKS OR BREECHES SHALL BE REPAIRED WITHIN 48 HOURS OF THE STORM EVENT.
- WETLAND BUFFER AREAS SHALL NOT BE IMPACTED BY ANY CONSTRUCTION ACTIVITIES (OTHER THAN THOSE IMPACTS PERMITTED UNDER THE CUP AND DES WETANDS PERMIT). WETLAND BUFFERS SHALL BE MARKED WITH ORANGE SNOW FENCE PRIOR TO ANY ONSITE ACTIVITY, AND SUCH MARKERS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL OUTDOOR LIGHTING (INCLUDING SECURITY LIGHTS) SHALL BE DOWN LIT AND SHIELDED SO NO DIRECT LIGHT IS VISIBLE FROM ADJACENT PROPERTIES AND ROADWAYS;
- SNOW STORAGE SNOW SHALL BE REMOVED AND STORED SUCH THAT THE DRAINAGE STRUCTURES CAN FUNCTION PROPERLY AND THE REQUIRED PARKING SPACES CAN BE UTILIZED. SNOW STORAGE MAY NOT IMPACT THE CITY'S ACCESS TO THE SEWER PUMP STATION.
- 5. A SPILL KIT KEPT MUST ALWAYS BE ONSITE.
- A SURVEYOR IS TO SUBMIT A SIGNED LETTER TO THE PLANNING DEPARTMENT STATING THAT THE NEW LOT CORNER MONUMENTS HAVE BEEN SET (SUBDIVISION REGULATION 6.1) AND THAT REFERENCE PINS HAVE BEEN SET ON ALL EASEMENT BOUNDS (SUBDIVISION REGULATION 5.7.4).
- THE NEW DRAINAGE INFRASTRUCTURE MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE NEW BUILDING AND ASSOCIATED PARKING. IF THE INFRASTRUCTURE IS USED AS A TEMPORARY SETTLING AREA DURING CONSTRUCTION, THE INFRASTRUCTURE SHALL BE CLEANED OUT AND BROUGHT DOWN TO PROPOSED BOTTOM ELEVATION PRIOR TO CO
- CONSTRUCTION COST ESTIMATE FOR THIS PROJECT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. ESTIMATE SHALL BE BASED ON THE DEPARTMENT OF PUBLIC WORKS CONSTRUCTION SURETY SCHEDULE AND SHALL INCLUDE A 10% CONTINGENCY. COSTS FOR ITEMS NOT SPECIFICALLY ADDRESSED IN THE SURETY SCHEDULE WILL BE BASED ON 1 CITY STANDARDS, 2) NHDOT WEIGHTED AVERAGES, 3) INDUSTRY STANDARDS, OR 4) CONTRACTOR ESTIMATES.
- PERFORMANCE GUARANTEE. IF APPLICABLE, PRIOR TO ISSUANCE OF A BUDDING PERMIT OR BEGINNING SITE WORK. THE APPLICANT SHALL PROVIDE SITE IMPROVEMENT AND RESTORATION SECURITY. THE PERFORMANCE GUARANTEE SHALL BE AN AMOUNT EQUAL TO 10% OF THE APPROVED CONSTRUCTION COST ESTIMATE (INCLUDING A 10% CONTINGENCY) TO ENSURE THE PROPER AND TIMELY COMPLETION OF SITE WORK AND SITE RESTORATION WITHIN THE DEVELOPMENT. BEFORE THE SUBDIVISION/ SITE PLAN CAN BE RECORDED, LOTS DEEDED TO THIRD PARTIES, OR STRUCTURES OCCUPIED THE APPLICANT SHALL PROVIDE A COST ESTIMATE OF REMAINING SITE WORK INCLUDING LABOR, AND PROVIDE THE CITY WITH A SECURITY IN THE FORM OF EITHER LETTER OF CREDIT OR CASH EQUAL TO 110% OF THE ESTIMATED COST FOR REMAINING WORK. (ANY EXISTING SURETY BEING HELD AT THIS TIME MAY BE /ERTED TOWARD THIS AMOUNT). THIS AMOUNT SHALL INCLUDE PREPARATION OF AS-BUILT PLANS.
- 10. AS-BUILTS. THREE SETS OF FULL SIZE (MEASURING AT LEAST 22" X 34") OR BLACK LINE PAPER PLUS 1 SET OF 1 1" X 17" PLUS ONE DIGITAL POF COPY OF THE AS-BUILT SITE PLANS (OR "RECORD DRAWINGS") STAMPED AND SIGNED BY THE ENGINEER OR SURVEYOR ARE TO BE SUBMITTED TO THE PLANNING DEPARTMENT PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY (OR USE/ OCCUPANCY OF THE SITE WHERE NO CO IS REQUIRED). THE AS-BUILT THE ENGINEERY SURVEYOR IN DETERMINING WHICH MODIFICATIONS SHOULD BE CONSIDERED SIGNIFICANT (FOR EXAMPLE, MINOR ADJUSTMENTS IN LOCATIONS OF PLANT MATERIALS WOULD NOT BE SIGNIFICANT WHEREAS RELOCATION OF A CATCH BASIN WOULD BE). AS-BUILTS ARE TO INCLUDE STATE PLANE COORDINATES. A COPY OF THE ASBUILT LINE WORK IS ALSO TO BE SUBMITTED AS A CAD FILE THAT IS GEOREFERENCED TO THAT SAME COORDINATE
- 11. EXECUTION. THE PROJECT MUST BE BUILT AND EXECUTED EXACTLY AS SPECIFIED IN THE APPROVED APPLICATION UNLESS CHANGES ARE APPROVED BY THE CITY.
- 12. APPROVALS. ALL OF THE DOCUMENTATION SUBMITTED IN THE APPLICATION PACKAGE BY THE APPLICANT AND ANY REQUIREMENTS IMPOSED BY OTHER AGENCIES ARE PART OF THIS APPROVAL UNLESS OTHERWISE UPDATED, REVISED, CLARIFED IN SOME MANNER, OR SUPERSEDED IN FULL OR IN PART. IN THE CASE OF CONFLICTING INFORMATION BETWEEN DOCUMENTS, THE MOST RECENT DOCUMENTATION AND THIS NOTICE HEREIN SHALL GENERALLY BE
- 13. VIOLATIONS. IN THE EVENT OF ANY VIOLATIONS OF THESE CONDITIONS OF APPROVAL OR OF ANY PERTINENT LOCAL, STATE, OR FEDERAL LAWS -- SUCH AS THOSE REGARDING EROSION AND SEDIMENTATION CONTROL, WETLANDS, STORMWATER MANAGEMENT, AND GENERAL SITE DEVELOPMENT STANDARDS -- THE CITY OF ROCHESTER RESERVES THE RIGHT TO TAKE ANY APPROPRIATE PERMISSIBLE ACTION, INCLUDING, BUT NOT LIMITED TO, WITHHOLDING OF BUILDING PERMITS, WITHHOLDING OF CERTIFICATES OF OCCUPANCY, WITHHOLDING OF DRIVEWAY PERMITS, REVOCATIONS OF PERMITS/APPROVALS, REFERRING VIOLATIONS TO OTHER AGENCIES, AND CALLING OF BONDS.
- 14. OTHER PERMITS, IT IS THE RESPONSIBILITY OF THE APPLICANT TO OBTAIN ALL OTHER LOCAL STATE, AND FEDERAL PERMITS, LICENSES, AND APPROVALS WHICH MAY BE REQUIRED AS PART OF THIS PROJECT. CONTACT THE CITY OF ROCHESTER'S BUILDING, ZONING AND LICENSING DEPARTMENT AT 332-3508 REGARDING BUILDING PERMITS. PLEASE ALSO CONTACT THE CITY OF ROCHESTER FIRE DEPARTMENT AT 330-7182 TO ENSURE THAT THE PROPOSED BUILDING MEETS ALL FIRE CODES. FINALLY, PLEASE CONTACT THE DEPARTMENT OF PUBLIC WORKS FOR ANY STORMWATER, SEWER, OR WATER PERMITS OR FEES THAT ARE REQUIRED.
- 15. APPEAL PROCESS: PURSUANT TO RSA 677:15, AN AGGRIEVED PARTY MAY APPEAL THIS DECISION TO THE STRAFFORD COUNTY SUPERIOR COURT WITHIN 30 DAYS OF THE DATE THE BOARD VOTED TO APPROVE OR DISAPPROVE THE APPLICATION, OR TO THE ZBA PURSUANT TO RSA 676:5, III WITHIN 30 DAYS OF THE DATE THE BOARD MADE ITS

NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS RELATED TO THREATENED AND ENDANGERED SPECIES SPECIES - PER ENV-WQ 1503.19(H)

· WOOD TURTLES (SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. SITE OPERATORS SHALL BE INFORMED OF THE POTENTIAL PRESENCE OF THIS SPECIES AND SHALL BE PROVIDED A FLYER THAT HELPS TO IDENTIFY THIS SPECIES ALONG WITH NHFH CONTACT INFORMATION, SEE PLAN SHEET GI-103.

NO SUMPS SHALL BE INCLUDED IN THE DESIGN OF CATCH BASINS WHEN LOCATED NEAR OR WITHIN GRASSY AREAS AND HOODS ON OUTLET PIPES SHALL BE ELIMINATED FROM THE DESIGN TO AVOID THE ENTRAPMENT OF RARE WILDLIFE.

ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, EXCEPT FOR SILT FENCE INSTALLED IN ACCORDANCE

- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, EXCEPT FOR SILT FEMCE INSTALLED IN ACCORDANCE
 WITH ENN-WQ 1506-04, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE
 INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN
 WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH. SEE PLAN
 SHEET(S) CD-508 AND CD-509 FOR SPECS.
 ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW
 HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY
- PRIONE AT 603-271-2461 AND BY EMAIL AT INFERENCE WENTILDIES ENVIRONMENTAL REVIEW PROGRAM BY PRIONE AT 603-271-2461 AND BY EMAIL AT INFERENCE WENTILDIES, INFERENCE PROTOGRAPHS SHALL SUBJECT LINE: NH220-2707 EFI TEBBETTS ROAD ROCHESTER, WILDLIFE SPECIES OBSERVATION, PHOTOGRAPHS SHALL BE PROVIDED FOR VERIFICATION AS FEASIBLE.
- THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE

ADDITIONAL NHF&G RECOMMENDATIONS:

. WETLAND BIRDS INCLUDING THE MARSH WREN, SORA (SPECIES OF SPECIAL CONCERN), AND PIED-BILLED GREBE (STATE THREATENED) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. IF BIRDS ARE OBSERVED TO DISPLAY NESTING BEHAVIOR (FOR EXAMPLE: CALLING, SWOOPING, AGITATED/TERRITORIAL BEHAVIOR), OBSERVERS SHOULD CONTACT THE WILDLIFE DIVISION AT 603-271-2461 OR NHFGREVIEW@WILDLIFE.NH.GOV. PROVIDE NH HIB NUMBER NHB21-0542 AND PROJECT NAME. MIGRATORY BIRD NESTS ARE PROTECTED UNDER NH AND FEDERAL LAWS.

Wood Turtle

(New Hampshire Species of Special Concern)



- Neck and forelimbs are orange.
 - Characterized by its highly sculpted shell with each large scute taking on an irregular ovramidal shape.
 - Adults can be 5-8 inches long.





Please report sightings to NH Fish and Game at RAARP@wildlife.nh.gov or at 603-271-2461, Photo documentation. location, and date/time of observation is helpful.

NOTE: It is illegal to remove a wood turtle from the wild (RSA 207:1, FIS 804.02).

PLEASE REPORT RARE TURTLES

The NH Fish & Game Department is requesting observations of three turtle species that could



- Blanding's turtle (state endangered) Large, dark/black domed shell with



- Wood turtle (special concern) Sculpted, pyramidal browni
 - Orange around neck and limb
 - River/stream turtle spending many months on land



Spotted turtle (state threatened

- Small, mostly aquatic with black or dark brown with yellow spot
- Fairly flat shell compared to Blanding's turtle

GI-103

OJ. No.: 20200646.A10

DATE: JANUARY 2021

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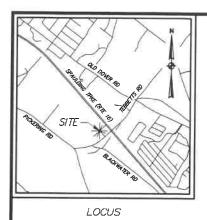
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GENERAL NOTES
PLAN

BFI

TAX MAP 257 LOT 6 0 TEBBETTS ROAL

FUSS & SOCIALISTER, SOCIAL SEZZI WANGHISTIFR, SOCIAL SEZZI WANGHISTIFR



REFERENCE PLANS:

1) STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS -- PLANS OF PROPOSED -- LS 1826 (1), N.H. NG. P-2692-T, SPAULDING TURNPIKE, CIRCA 1856, ON FILE AT THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

2) STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS — PLANS OF PROPOSED — LS 1826 (3), N.H. NO. P. - PSB2-X, SPANLIDING TURNHING, CIRCA 1857, ON FILE AT THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

3) PLAN SHOWING LAND OWNED BY THE STATE OF NEW HAMPSHIRE DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS (TRACTS NO. 1 AND NO. 2) ADJACENT TO THE SPAULDING TURNING, ROCHESTER, NEW HAMPSHIRE, DATES OCTOBER 16, 1972, PLAN 4912, ON FILE AT THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.

4) "LIMITED SUBDIVISION, ARTHUR POMERLEAU, ROCHESTER, N.H.", DATED JANUARY 1878, BY FREDERICK E. DREW ASSOCIATES, S.C.R.D. PLAN PO178—0007.

5) "LIMITED SUBDIVISION, ARTHUR POMERLEAU, ROCHESTER, N.H.", DATED JULY 1979, BY FREDERICK E. DREW ASSOCIATES, S.C.R.D. PLAN PO170—0127.

6) "LOT LINE REVISION LAND OF BENJAMIN J. JR. & RUBY J. WASHOK, ROCHESTER, N.H.", DATED MAY 28, 1886, BY JOHN W. DURGIN ASSOCIATES, INC., S.C.R.D. PLAN PC28A-DOOS.

NOTES:

1) THE INTENT OF THIS PLAN IS TO DEFINE THE PARTIAL BOUNDARY OF THE SUBJECT PARCEL AS SHOWN HEREON. THE BOUNDARY LINES THAT HAVE BEEN SURVEYED ARE DENOTED AS LIMIT OF BOUNDARY SURVEY.

THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY PERFORMED ON THE GROUND BETWEEN OCTOBER AND NOVEMBER 2020.

3) BASIS OF BEARING IS NH GRID NORTH.

4) THE SUBJECT PROPERTY IS LOCATED IN THE GENERAL INDUSTRIAL ZONING DISTRICT (G) PER THE CITY OF ROCHESTER ZONING ORDINANCE, AS AMENDED. BUILDING SETBACKS ARE AS FOLLOWS: PROVI 25', SIDE 20', REAR 25', BUILDING SETBACKS SHOWN HEREON SOUR INTERPRETATION OF THE REFERENCED ZONING ORDINANCE. FINAL DETERMINATION IS MADE BY THE CITY OF ROCHESTER ZONING OFFICIALS.

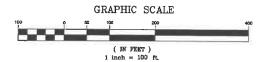
5) SUBJECT PREMISES IS LOCATED IN ZONE X AS SHOWN ON FEMA FLOOD INSURANCE RATE WAP(S) FRM 33017C02140, EFFECTIVE DATE: MAY 17, 2005. FLOOD ZONE X IS NOT A SPECIAL FLOOD HAZARD AREA.

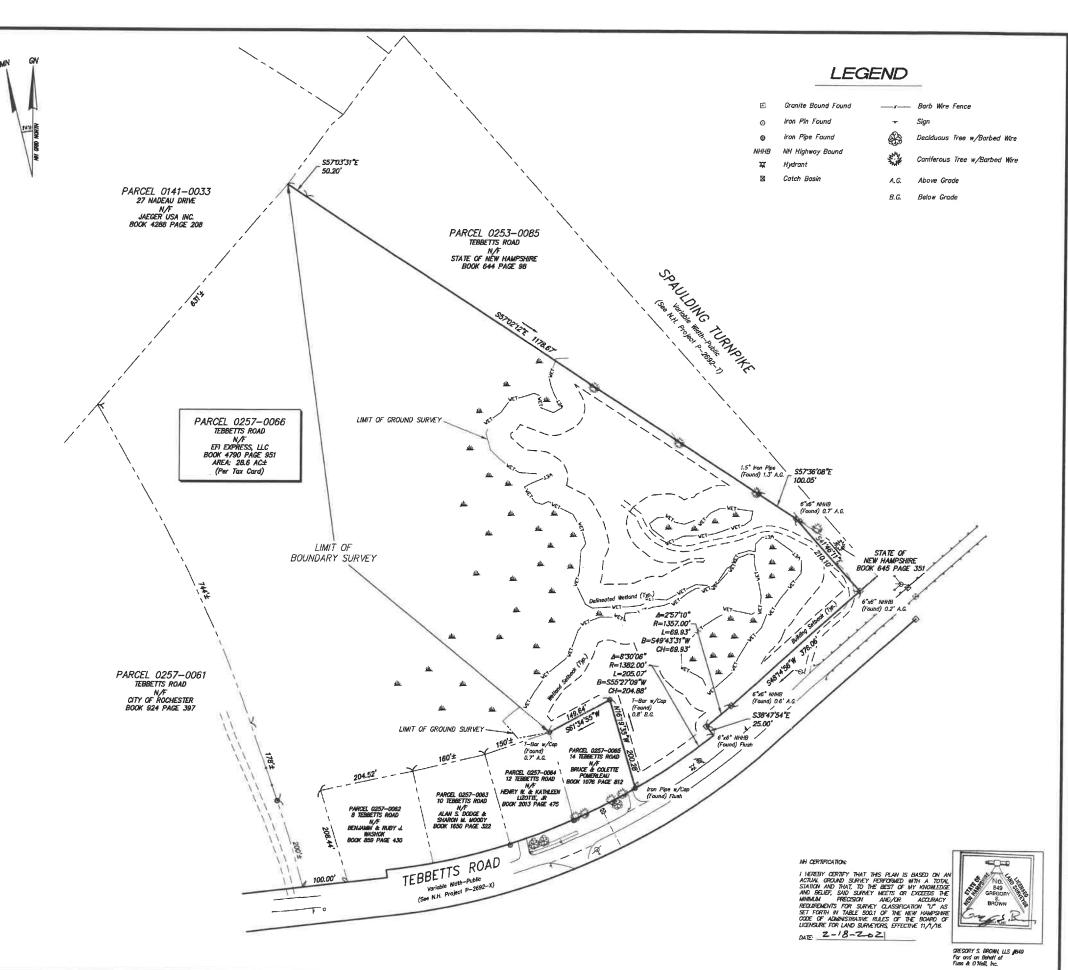
6) EASEMENTS AND/OR RIGHTS-OF-WAY AS SHOWN ARE THOSE FOUND DURING OUR RESEARCH OF THE SUBJECT PROPERTY AND ABUTTING TRACTS. IN ADDITION, THE SUBJECT PREMISES MAY BE SUBJECT TO AND/OR WITH THE BENEFIT OF THE FOLLOWING.

a) COMMISSIONERS' RETURN OF LAYOUT DATED JULY 25, 1956, S.C.R.D. BOOK 664 PAGE 55 (SPAULDING TURNIPIKE). AS AFFECTED BY DEEDS FROM JOSEPH N. POMBELAU BET AL TO THE STATE OF NEW HAMPSHER DATED APPRIL 21, 1955, S.C.R.D. BOOK 644 PAGE 357 AND DATED MAY 1955, S.C.R.D. BOOK 645 PAGE 351.

b) COMMISSIONERS' RETURN OF LAYOUT DATED NOVEMBER 8, 1956, S.C.R.D. BOOK 689 PAGE 84. AS AFFECTED BY DEED FROM JOSEPH N. POMERLEAU ET AL TO THE STATE OF NEW HAMPSHIRE DATED MOVEMBER 1, 1956, S.C.R.D. BOOK 689 PAGE 26.

B) UTBLITY STRUCTURES AT OR ABOVE THE GROUND SURFACE SHOWN HEREON ARE THAS BETT AND ARE STRUCTURES AT OR ABOVE THE GROUND SURFACE SHOPEN HEREON ARE THAS ROUND SURFACE HAVE NOT BEDN OBSERVED AND ARE SHOWN APPROXIMATELY HEREON AS DERIVED FROM A COMBINATION OF SURFACE MARKINGS BY OTHERS AND/OR RECORD INFORMATION AND ARE NOT VERRIED LOCATIONS OR COMPRIMATION OF EXISTENCE OF SAID UNDERGROUND UTILITIES ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK, CALL DIG SAFE 1—888—344—7233 A MINIMUM OF 72 MONTHS PRIOR TO PLANNED ACTIVITY.





&O'NEILL **FUSS**

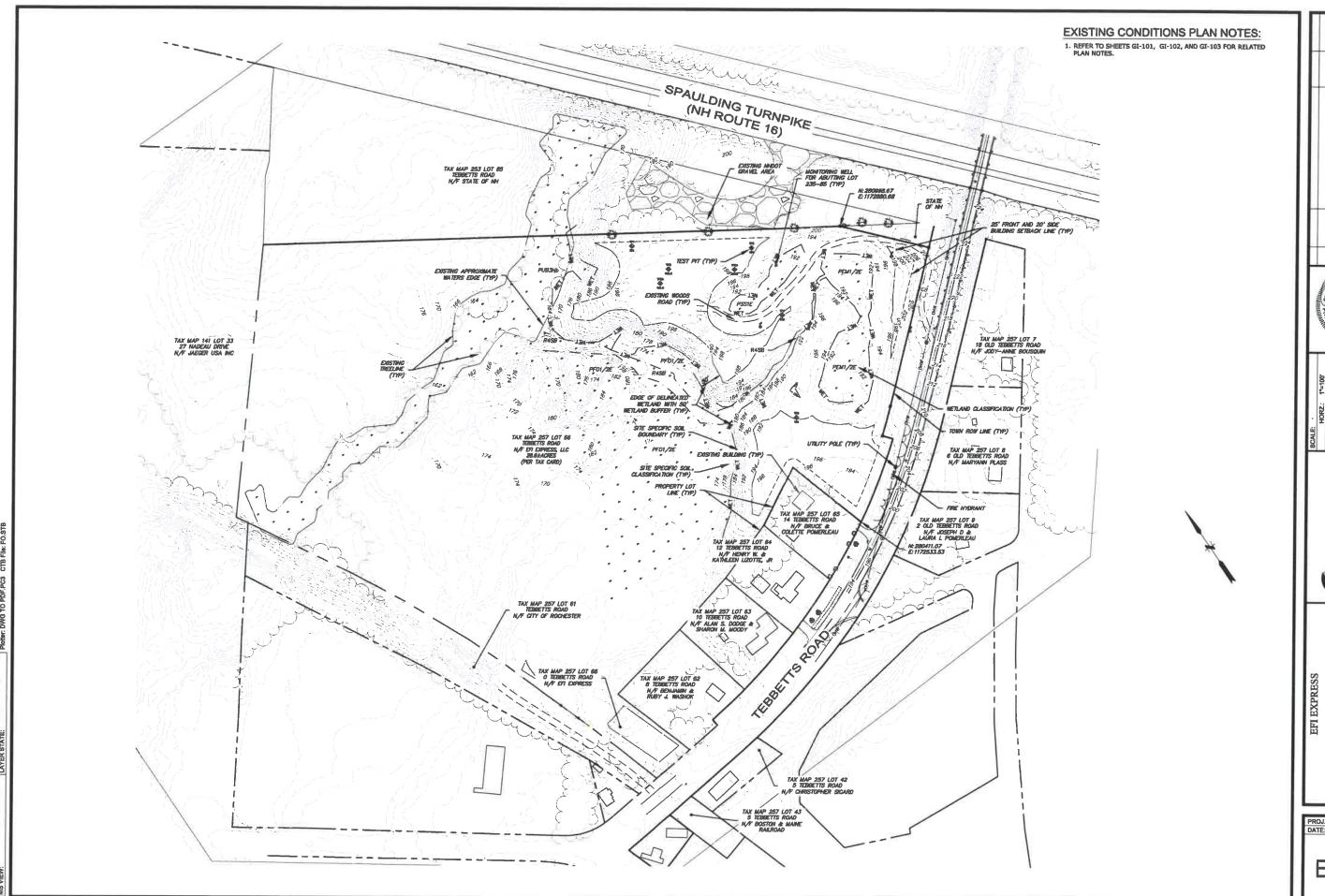


1 EXPRESS DMPSON MILL ROAD NEW HAMPSHIRE (4790 PAGE 951 EF! ' THOW LEE, ' BOOK

PARTIAL BOUNDARY
AND OF EFI EXPRESS
AX MAP PARCEL 0257-0066
ROCHESTER ROAD
STRAFFORD COUNTY PARTIAL LAND OF 1

PROJ. No.: 20200646A10 DATE: 10/19/2020 SCALE: 1"=100"

BD-101



4. 09/21/2021 REVS PER WIDES ACD BAP
3. 07/20/2021 REVS PER RITEG AND WETLANDS ACD BAP
3. 07/20/2021 REVS PER CITY. DES WETLANDS, AND F&C ACD BAP
5. 05/05/2021 REVS PER CITY INC. DAS ACTS BAP
6. 05/05/2021 REVS PER CITY INC. DAS ACTS WETLANDS ACD BAP
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LOT OVERVIEW

EXISTING CONDITIONS PLAN

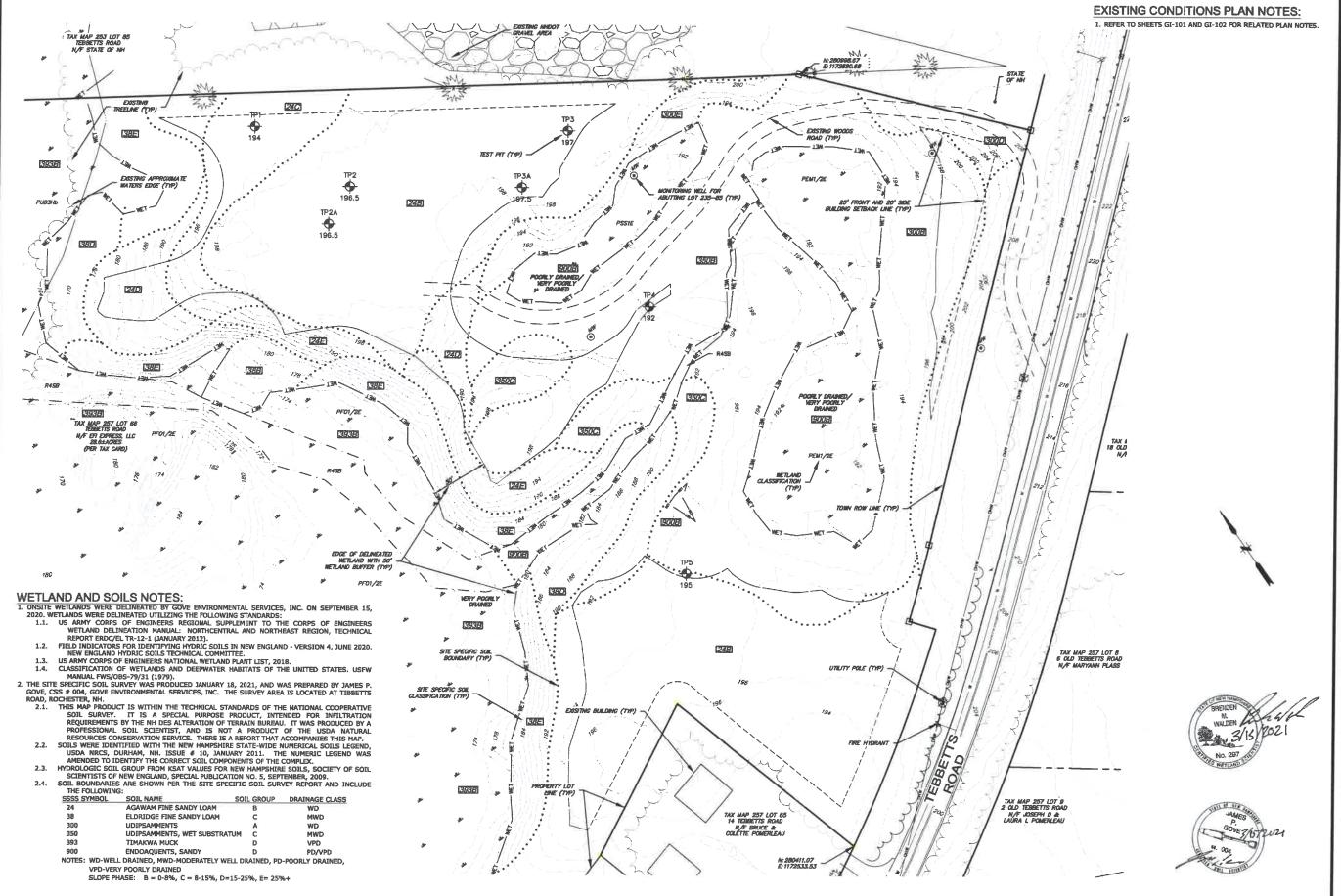
TAX MAP 257 LOT 66

TEBBETTS ROAD

NEW HAMPSHIRE

PROJ. No.: 20280846.A10 DATE: JANUARY 2021

EX-101

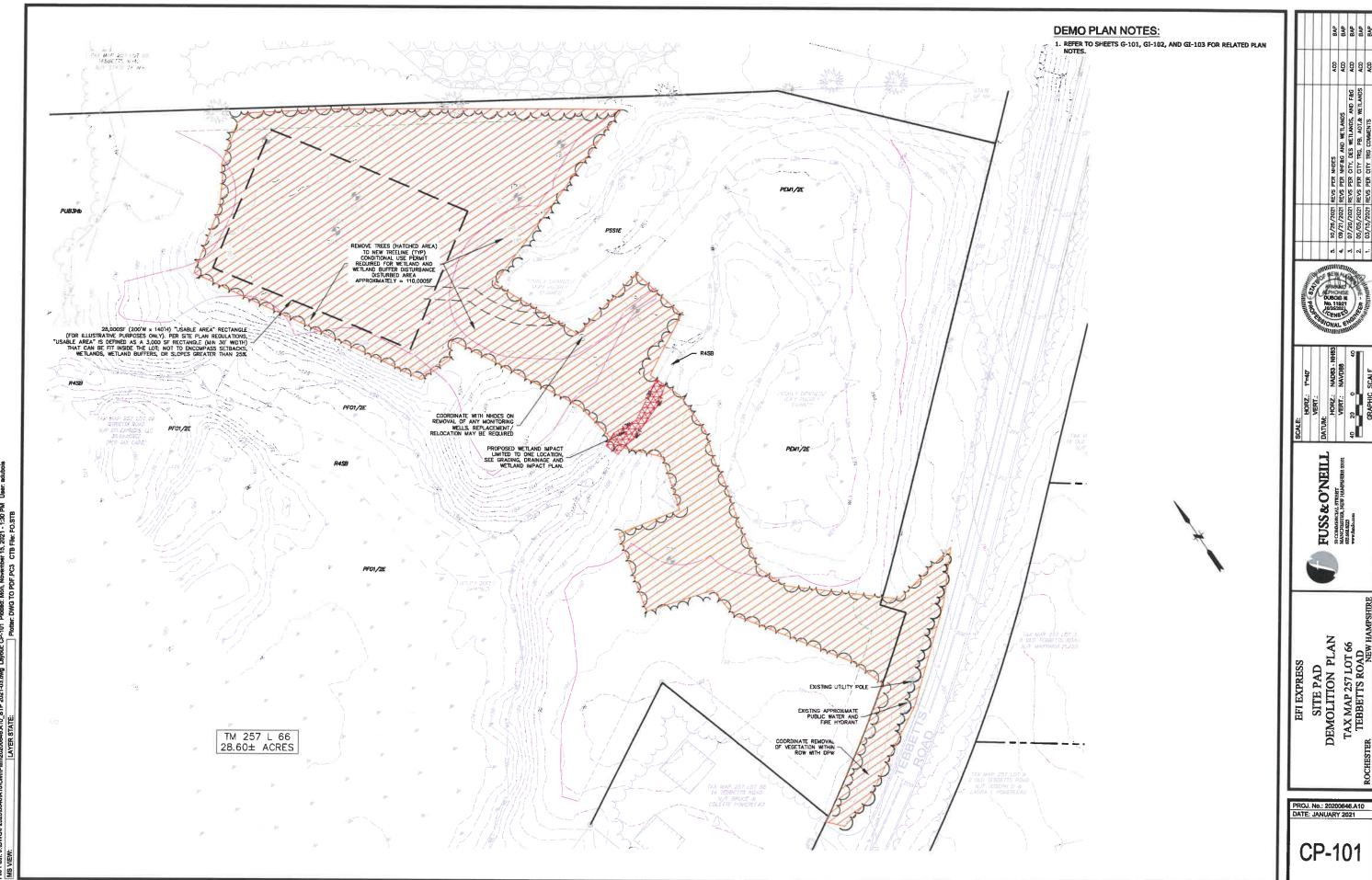


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TAX MAP 257 LOT 66
TEBBETTS ROAD
NEW HAMFSHIR EXISTING PROJ. No.: 20200646.A10

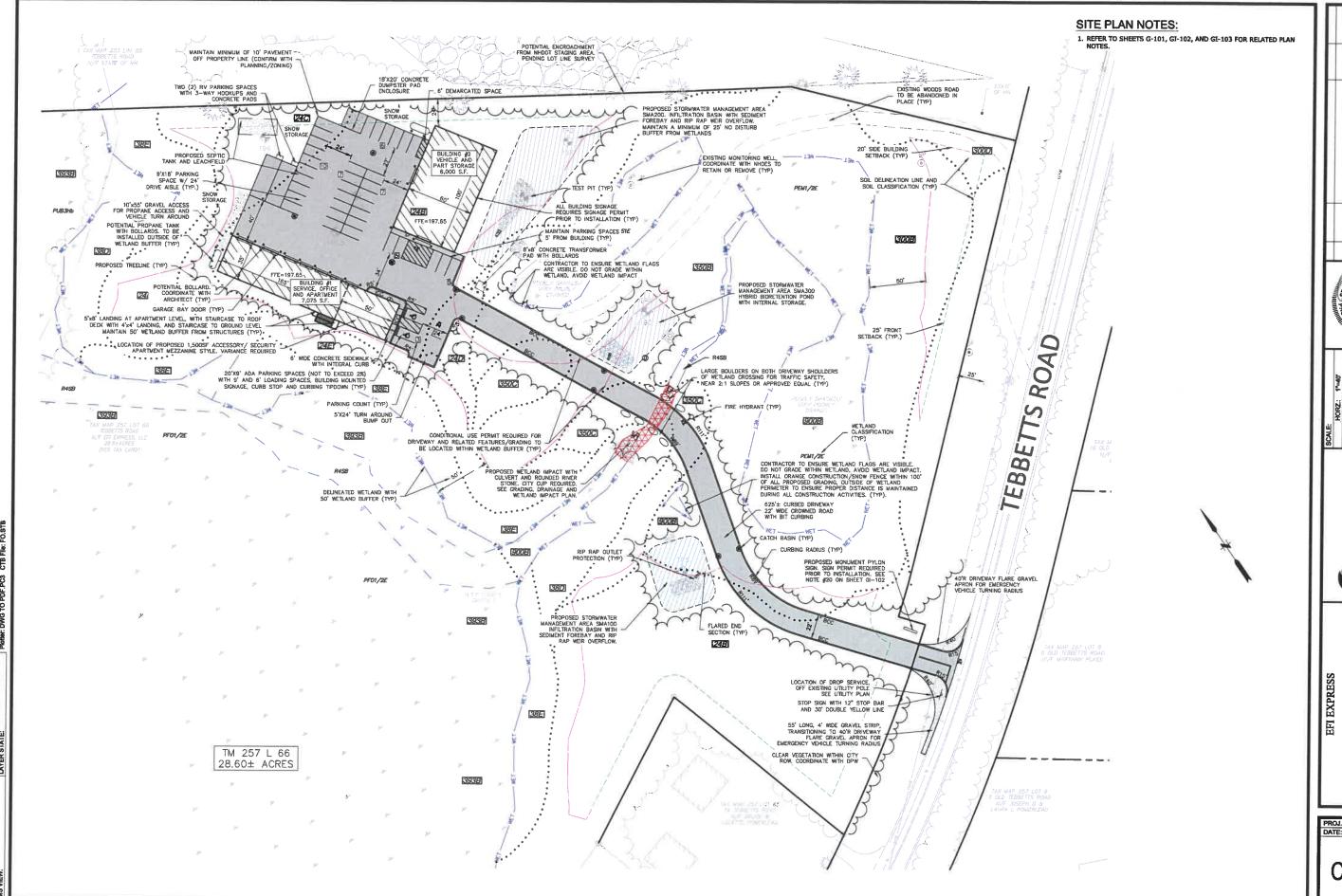
DATE: JANUARY 2021

EX-102

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ZI REVS PER NHF&G AND WETLANDS
ZI REVS PER CITY, DES WETLANDS, AND F&G
ZI REVS PER CITY TRG, PB, ADT.& WETLANDS
ZI REVS PER CITY TRG, DAMMENTS
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DEMOLITION PLAN
TAX MAP 257 LOT 66
TEBBETTS ROAD
NEW HAM



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MANOBISTA, STREET
MANOBISTA, NEW HAMRHER (810)

THE ARREST OF THE STREET

MANOBISTA, NEW HAMRHER (810) SITE PAD SITE PLAN

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CS-101

1. REFER TO SHEETS G-101, GI-102, AND GI-103 FOR RELATED PLAN NOTES. PC: 3+37.22-LARGE BOULDERS ON BOTH DRIVEWAY SHOULDERS OF WETLAND CROSSING FOR TRAFFIC SAFETY NEAR 2:1 SLOPES OR APPROVED EQUAL (TYP)

MAINTAIN PROFILE AS TO NOT CREATE
UNWANTED WETLAND IMPACT
STA 5+50±R TO STA 5+70±R PVI STA: 1+50.00 PVI ELEV: 198.61 K: 25.00 LP STA: 4+51.30 LP ELEV: 194.22 PVI STA: 4+60.00 PVI ELEV: 193.98 K: 25.00 LVC: 72.39 MAINTAIN PROFILE AS TO NOT CREATE UNWANTED WETLAND IMPACT STA 2+60±R TO STA 3+20±L PROPOSED WETLAND IMPACT STA 3+90 TO STA 4+15 SEE GRADING, DRAINAGE, AND WETLAND IMPACT PLAN BVCS: 6+23.81 HVCE: 196.25 CS: 4+23.80 VCE: 194.50 196.49 CB11 UNDERGROUND ELECTRIC, TELEPHONE, AND CABLE (TYP) CB12 CB22 — B" D.I WATER (TYP) -196.5 197.97 197.97 197.9 3+00 4+00 6+00 7+00 8+00 8+20

> **DRIVEWAY PROFILE** H: 1"=40' V: 1"=8'

BAP BAP BAP BAP BAP

DRIVEWAY PROFILE NOTES:

A REVS PER NI-DES
ZI REVS PER NI-PEG AND WETLANDS
ZI REVS PER CITY, DES WETLANDS, AND F&G
ZI REVS PER CITY TRG, PB, AOT, & WETLANDS
ZI REVS PER CITY TRG, COMMENTS
ZI REVS PER CITY TRG COMMENTS
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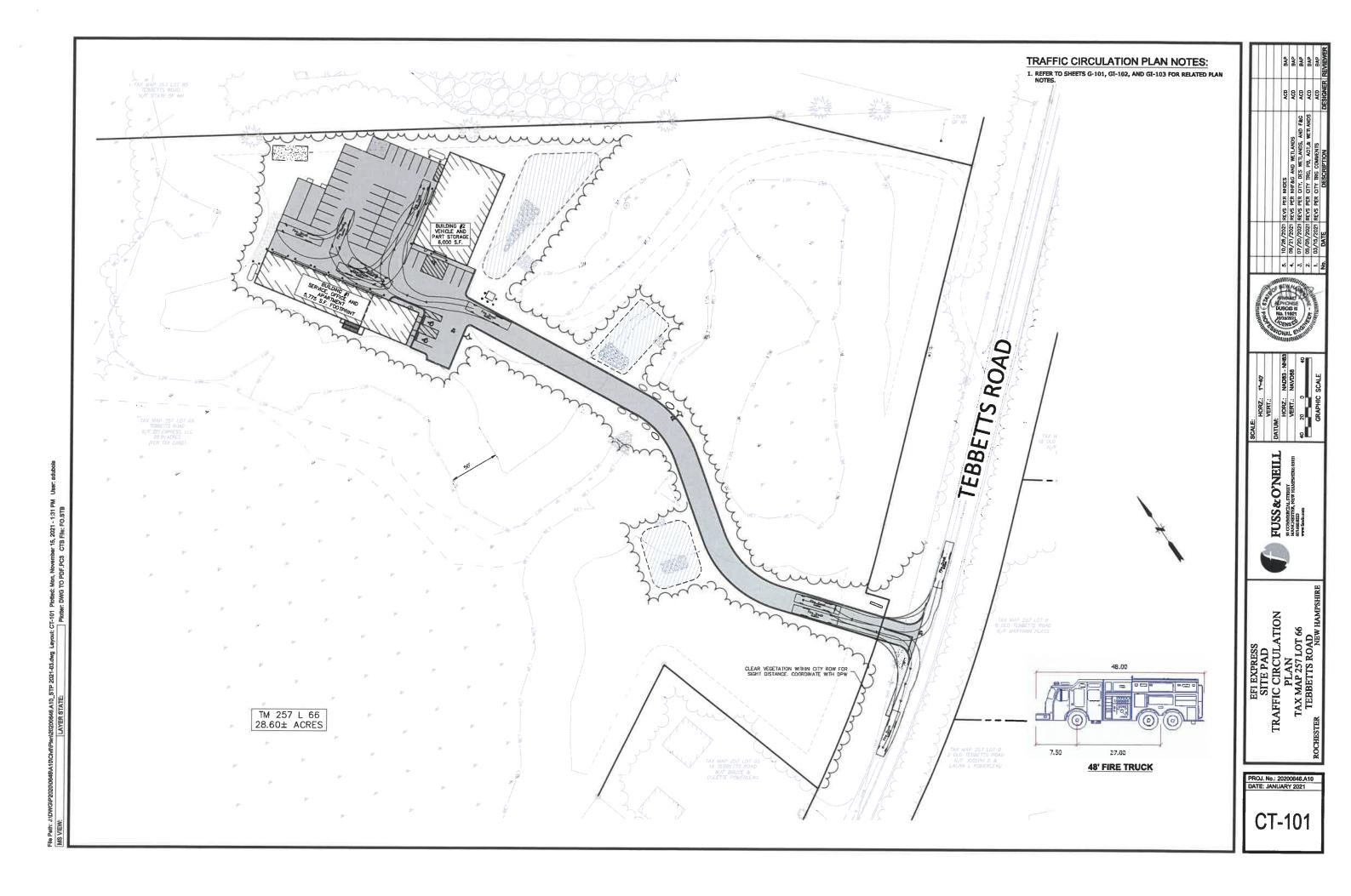


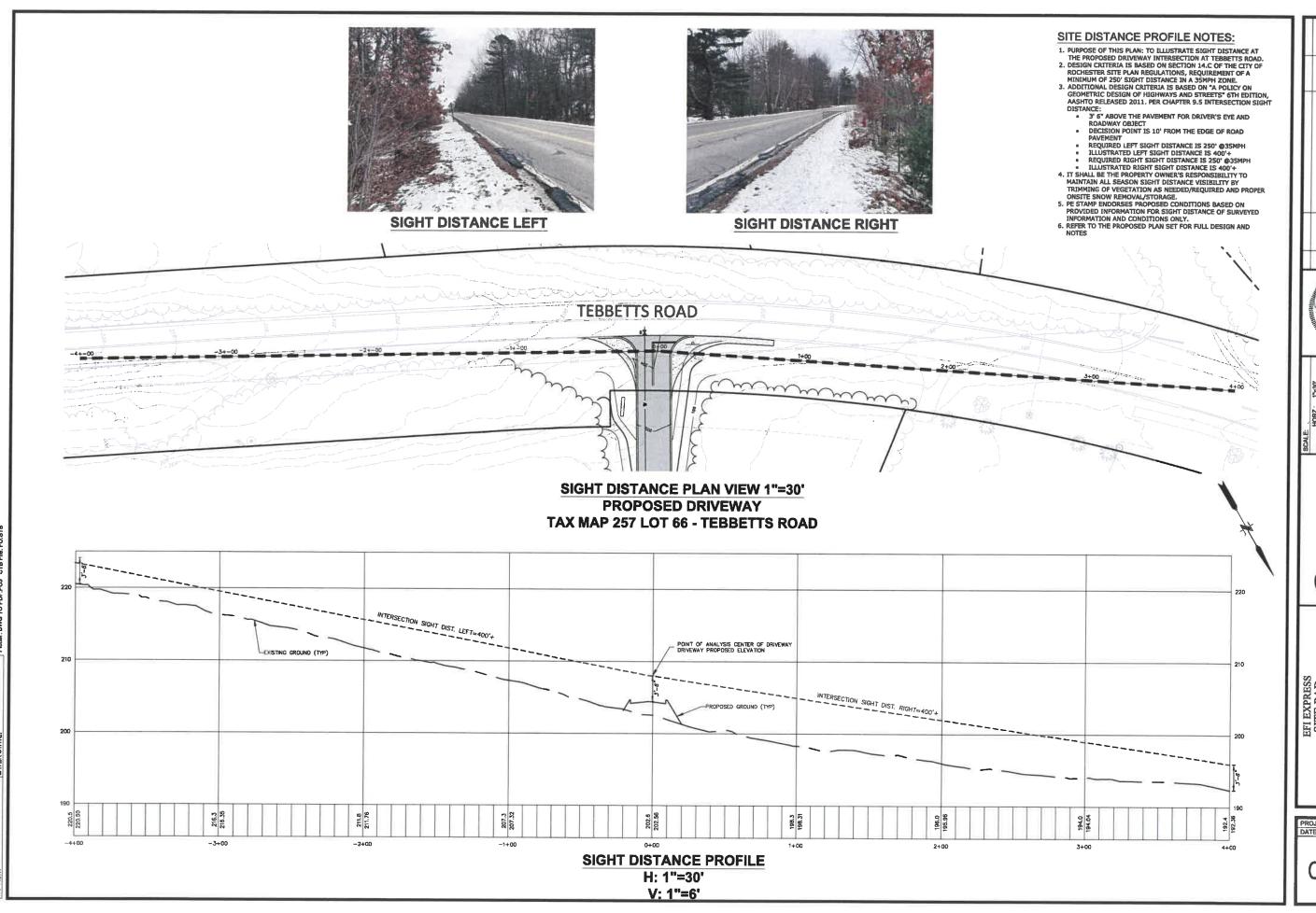
SITE PAD
DRIVEWAY PROFILE
TAX MAP 257 LOT 66
TEBBETTS ROAD
TER NEW HAM

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PROJ. No.: 20200646.A10 DATE: JANUARY 2021

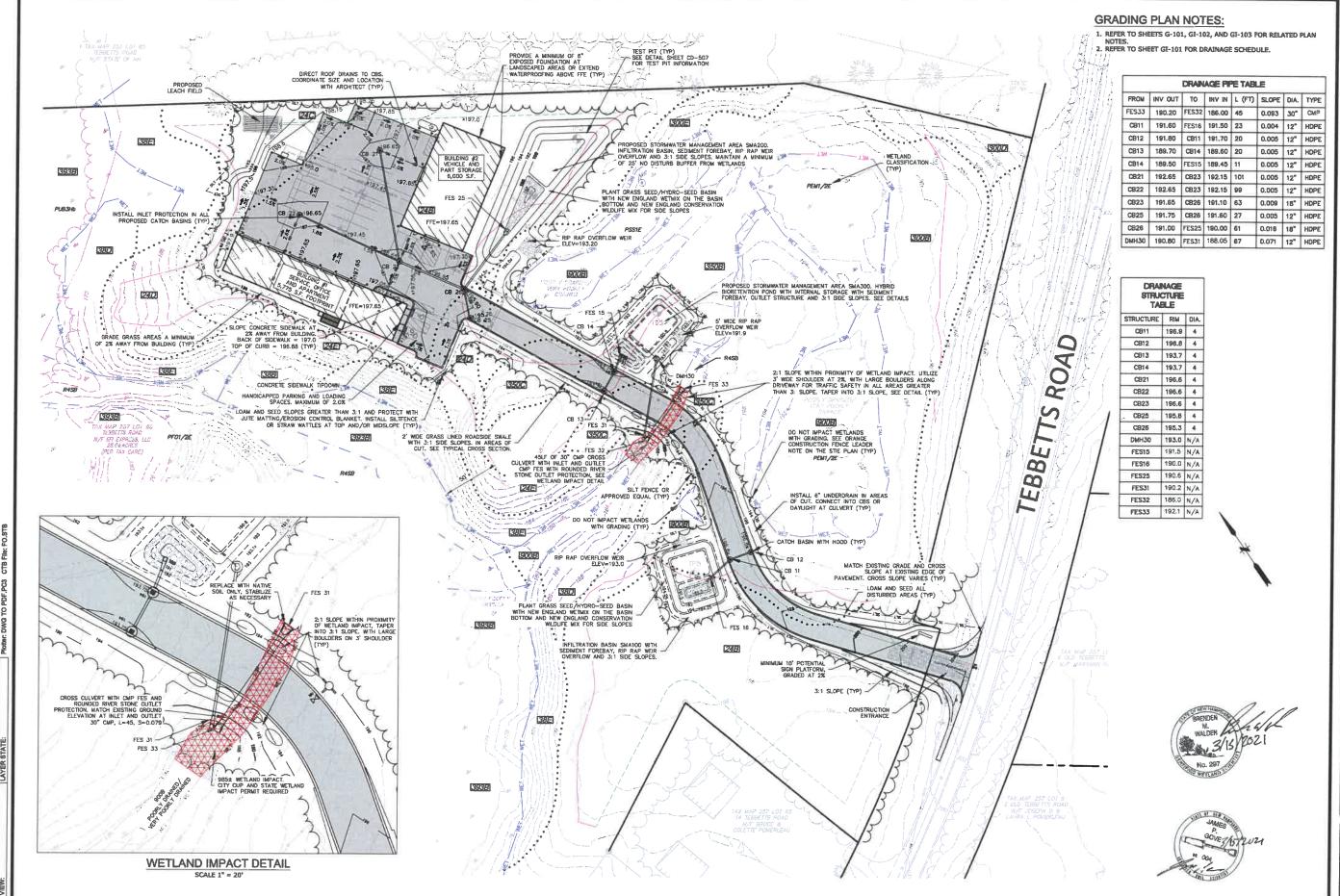
CR-101





BAP BAP BAP BAP FUSS & O'NEILL
SO COMMETCAL STREET
MANCHESTER, NEW HANTERINE 03/07
OFFICE ACCOUNTY PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CT-102



FUSS & O'NEILL



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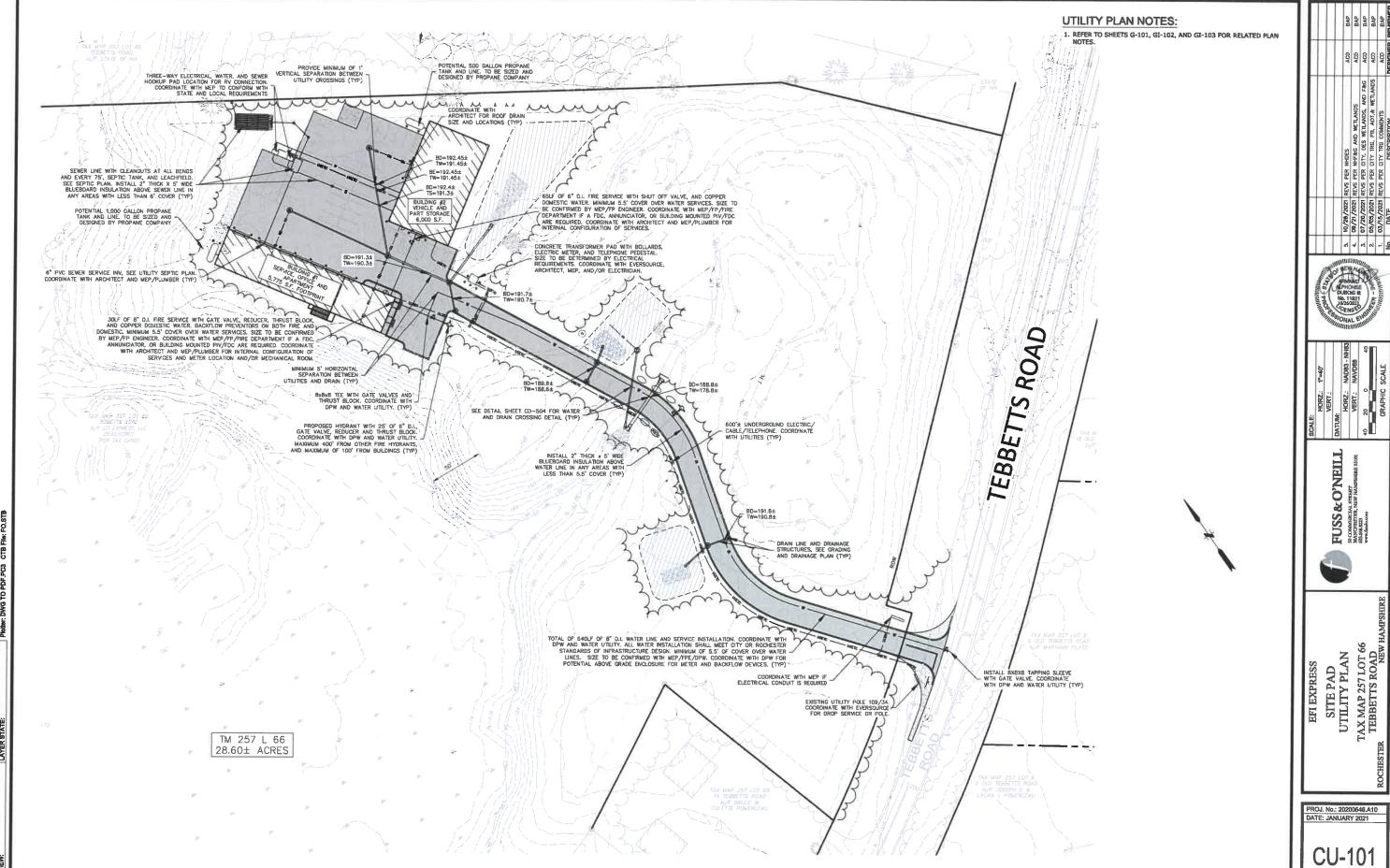
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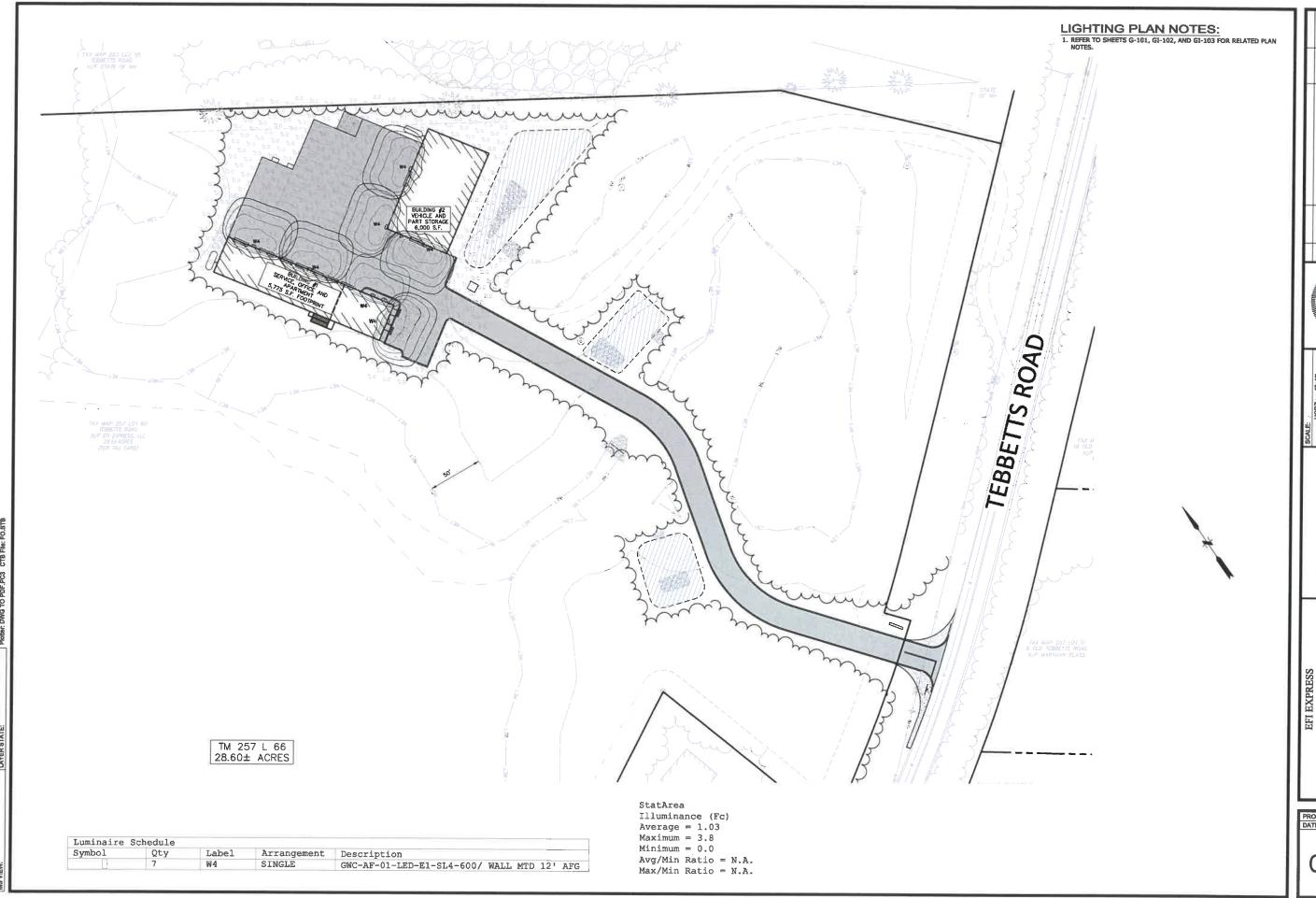
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EFI EXPRESS
SITE PAD GRADING, DRAINAGE,
EROSION CONTROL, AND
WETLAND IMPACT PLAN
TAX MAP 257 LOT 66
TEBBETTS ROAD

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CG-101

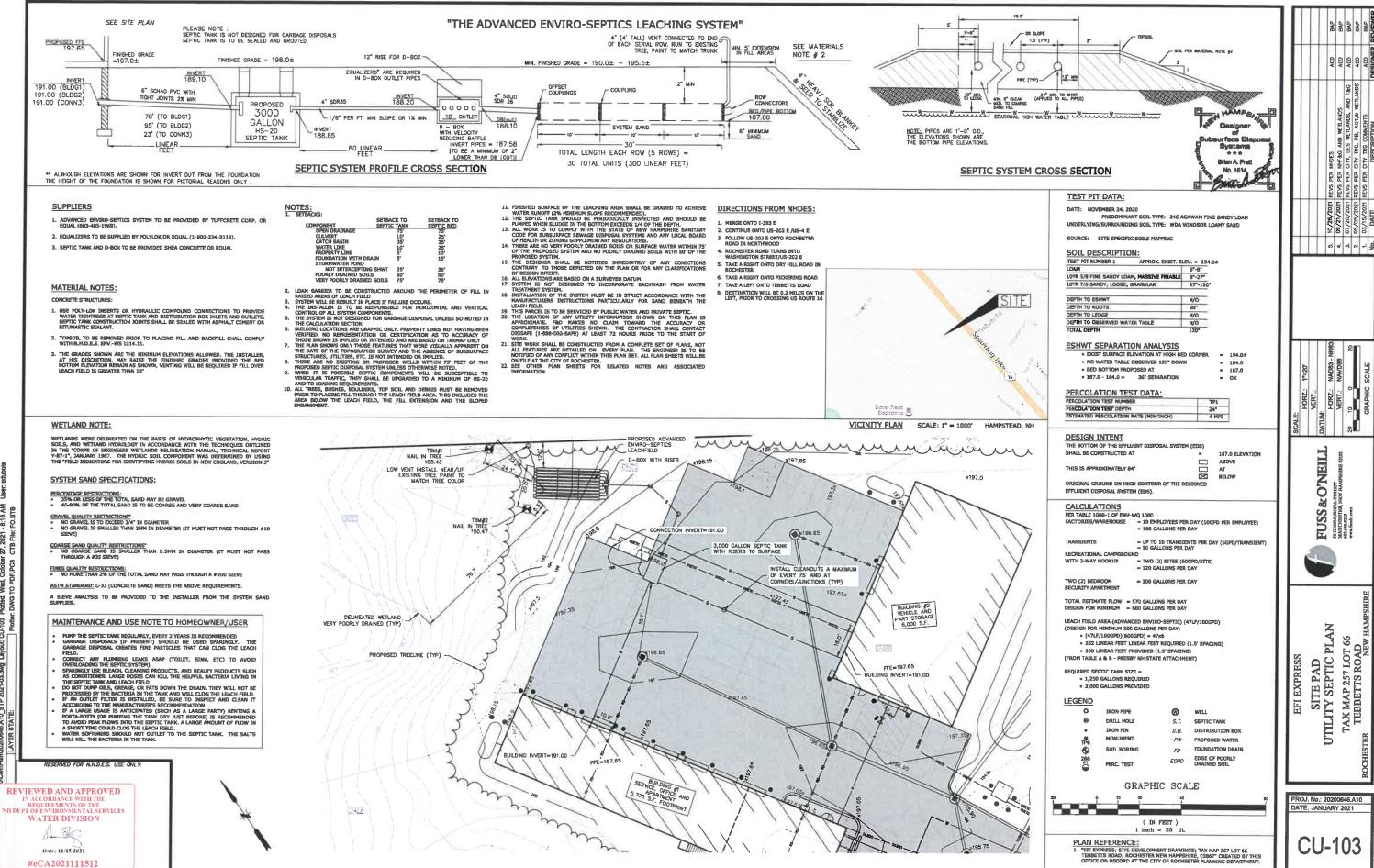


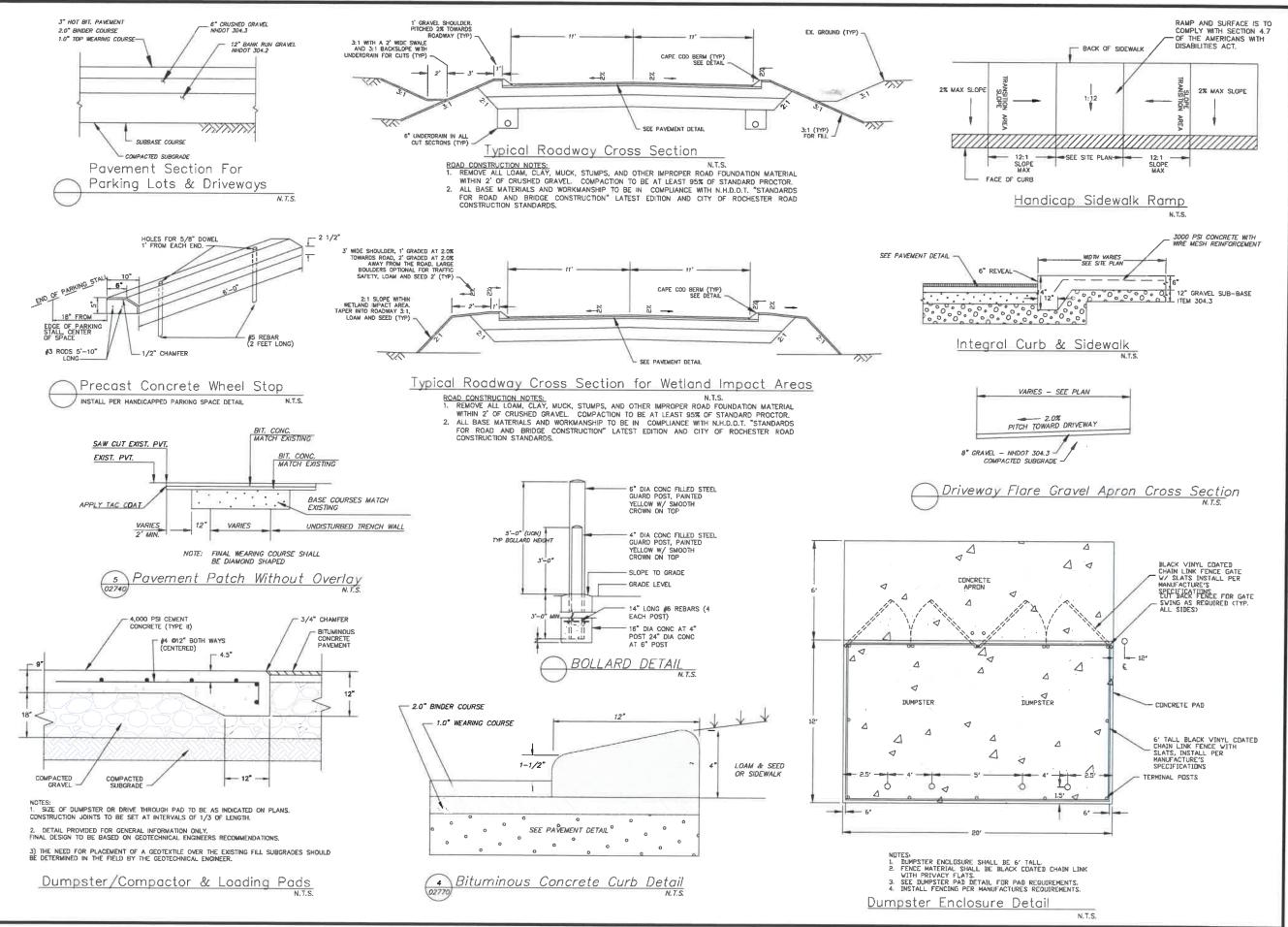


BAP BAP BAP BAP FUSS & O'NEILL
SO COMBETCIAL STREET
MANCHESTER, KIRW HAURSHELE CHICH
GLAGGELEUR
THE GEBELEUR SITE PAD
UTILITY LIGHTING PLAN
TAX MAP 257 LOT 66
TEBBETTS ROAD
TEBBETTS ROAD

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CU-102





R WHEAG AND WETLANDS
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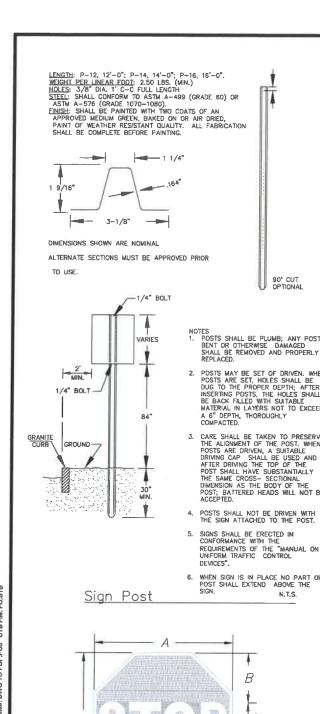
80 COMMENCAL STREET
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00.064 8225
TATABLE OF THE CONTROL OF THE C CIVIL DETAILS
PAVEMENT AND SIDEWALK
TAX MAP 257 LOT 66
TEBBETTS ROAD
NEW HAMPSHIR EFI EXPRESS

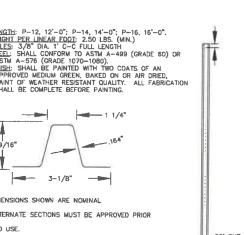
PROJ. No.: 20200646.A10

DATE: JANUARY 2021

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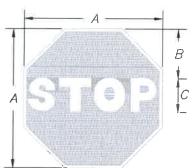


NOTES
1. POSTS SHALL BE PLUMB; ANY POST
BENT OR OTHERWISE DAMAGED
SHALL BE REMOVED AND PROPERLY
REPLACED.

POSTS MAY BE SET OF DRIVEN. WHEN POSTS ARE SET, HOLES SHALL BE DUG TO THE PROPER DEPTH; AFTER INSERTING POSTS, THE HOLES SHALL BE BACK FILLED WITH SUITABLE MATERIAL IN LAYERS NOT TO EXCEED A 6" DEPTH, THOROUGHLY COMPACTED.

3. CARE SHALL BE TAKEN TO PRESERVE THE ALIGNMENT OF THE POST, WHEN POSTS ARE DRIVEN A SUITABLE DRIVING CAP SHALL BE USED AND AFTER PRIVING THE TOP OF THE POST SHALL HAVE SUBSTANTIALLY THE SAME CROSS—SECTIONAL DIMENSION AS THE BODY OF THE POST; BATTERED HEADS WILL NOT BE ACCEPTED.

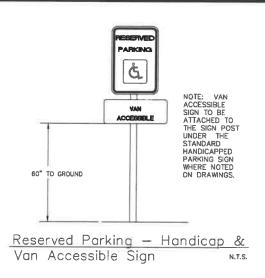
REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL

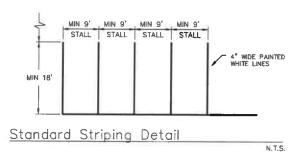


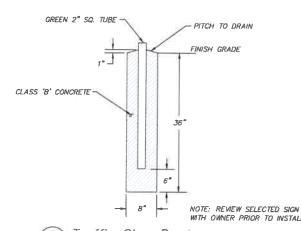
DIMENSIONS (INCHES) BIKE MIN STD EXPWY SPECIAL 18 24 30 36 6 8 10 12 16 6 8 10 12

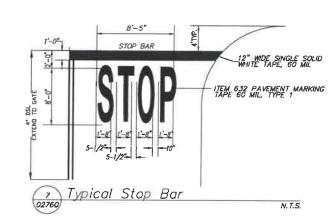
COLORS LEGEND — WHITE (REFL) BACKGROUND — RED (REFL)





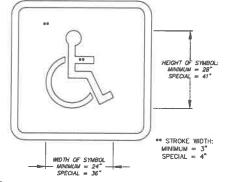




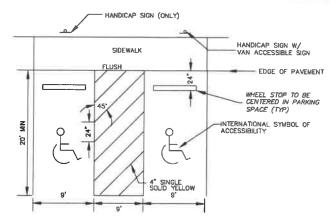




Reserved Parking Handicap Sign N.T.S.



Int'l Symbol of Accessibility Marking



Handicap Parking Space Detail (Van Accessible)

PHONSE DUBOIS III No. 11921 10/26/2021 CENSE

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S PER NHDES
S PER NHTEGE AND WETLANDS
S PER CITY, DES WETLANDS, AND F&C
S PER CITY TRG, PB, AOT,& WETLANDS
S PER CITY TRG, COMBAITS
TREADSHOTMAN

10/26/2021 09/21/2021 07/20/2021 05/05/2021

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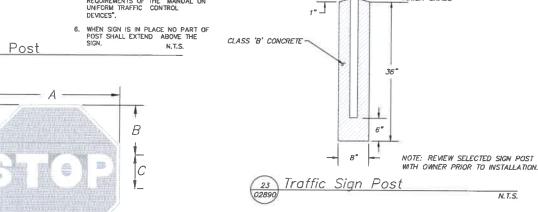
FUSS & O'NEILL
NOOMMETAL STREET
MANCHESTER, INDV HANCSHIRE BYOU
GO GO GO GO CO



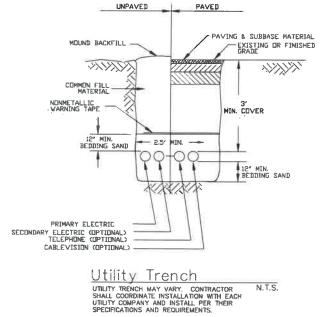
EFI EXPRESS
CIVIL DETAILS
SIGNAGE AND
PAVEMENT MARKINGS
TAX MAP 257 LOT 66
TEBBETTIS ROWHAMPS
NEW HAMPS

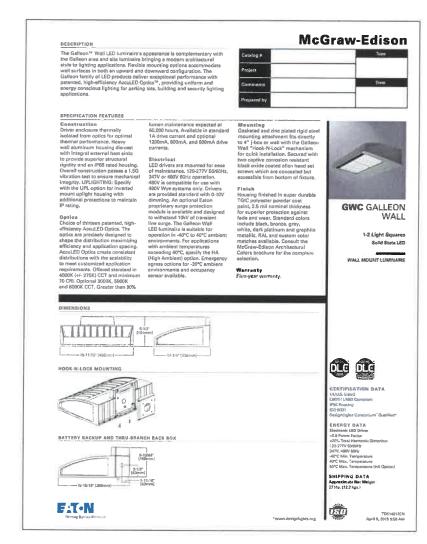
PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CD-502



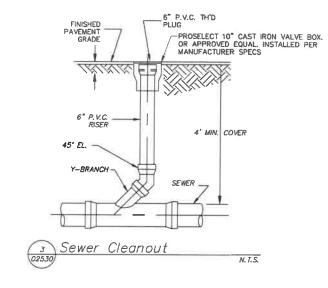


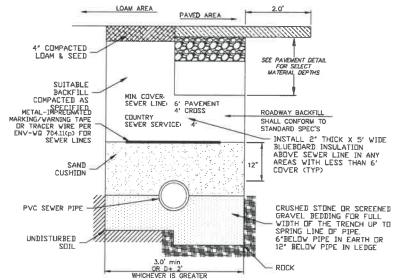




Light Fixture Detail

Note: Ornamental fixtures may be substituted; coordinate with Owner, Engineer, and Town





NOTES:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS. DEPTH FOR BITUMINOUS PAVEMENT SHALL BE AS SPECIFIED IN PAVEMENT DETAIL.

2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.

3. IN LIEU OF THE 12" GRAVEL COURSE AND 6" CRUSHED GRAVEL, 18" OF CRUSHED GRAVEL OR RECLAIMED STABILIZED BASE MAY BE USED AS A BASE FOR THE PAVEMENT REPAIR.

NATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.

A MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.

A MINIMUM 2' CUTBACK IS REQUIRED AT THE TOP OF THE TRENCH WALL OVER UNDISTURBED MATERIAL.

COMPACTION SHALL BE IN 12—INCH LAYERS FOR BEDDING AND BLANKET MATERIALS.

BACKFILL MATERIAL SHALL BE COMPACTED IN NO MORE THAN 3—FOOT THICK LAYERS TO THE GROUND SUFFACE EXCEPT FOR ROAD CONSTRUCTION WHERE THE FINAL 3 FEET SHALL BE COMPACTED IN NOT MORE THAN 12—INCH THICK LAYERS TO THE ROAD SURFACE.

TRENCHES FOR SEWER CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ENV—WO 704.11. PIPE TRENCH BEDDING MATERIAL SHALL BE #67 STONE (ASTM C33/C33M) PER ENV—WQ 704.11(c). SAND BLANKET MATERIAL SHALL CONFORM WITH PROVISIONS OF ENV—WQ 704.11(d). TRENCH BACKFILL MATERIAL SHALL CONFORM WITH ENV—WQ 704.11(b).

704.11(h).

9. GRAVITY SEWER CONSTRUCTION MATERIALS SHALL MEET THE REQUIREMENTS OF ENV WO. 704.05. PVC PIPE SHALL CONFORM WITH ASTM D3034 AND ASTM D2412 AND PVC JOINTS SEALS SHALL CONFORM WITH ASTM D3212.



CD-503

HORZ: HORZ. FUSS & O'NEILL
SO COMMENCIAL STREET
MANDESTER, NEW HANTERINE 03101
RESERVED. SEWER CIVIL DETAILS
UC, LIGHTING, AND S
TAX MAP 257 LOT 66
TEBBETTS ROAD ELECTRIC, DATE: JANUARY 2021

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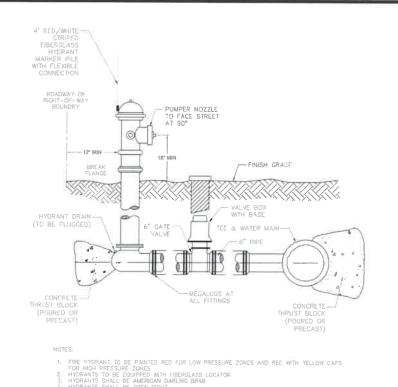
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R NHDES
R NHF&C AND WETLANDS
R OTH, DES WETLANDS, AND F&C
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APHONSE DUBOIS III No. 11921 10/28/2021 CENSE

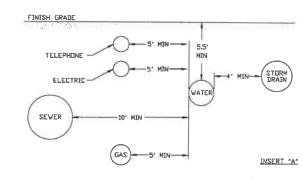


Typical Hydrant Installation

SET TO FINISH GRADE --7-11-11-11-11-11-11-11-1 TYPE "K" COPPER OR HOPE: SDR 9 (250 PSI MIN) WITH TRACER WRE 24" ABOVE PIPE

- TO BE SET IN DRIVEWAYS WATER SERVICE TO BE MARKED WITH 2X4

Typical Water Service Connection



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN SPECIFICATIONS.

- SPECIFICATIONS.

 2. ALL WATER MAINS SHOULD HAVE A MINIMUM DEPTH OF 5.5' FROM TOP OF PIPE TO FINISH GRADE.

 3. AT CROSSINGS WHERE 10' HORIZONTAL SEPERATION IS NOT POSSIBLE, 18" VERTICAL SEPERATION SHALL BE PROVIDED, SEE INSERT "A".

 4. A MINIMUM 10' HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL WATER AND SEWER UTILITIES. AT MAIN AND SERVICE CROSSINGS WHERE 10' LIOPITAL SEXDALATIONS LOT ORCSEIVE TO A LINE OF THE SERVICE CROSSINGS.
- WHERE 10' HORIZONTAL SEPARATION IS NOT POSSIBLE, AN 18" VERTICAL CLEARANCE SHALL BE PROVIDED WITH WATER OVER SEWER.

Water Main-Numerous Details Separation

FINISH GRADE

TYP STORM DRAIN

CONDITION I



WATER

SEWER)

1.5" BLUE DOW STYRDFOAM

BAP BAP BAP BAP

ACD ACD ACD ACD

NHDES
NHFÆG AND WETLANDS
GITY, DES WETLANDS, AND FÆG
CITY TRG, PB, AOT,Æ WETLANDS
GITY TRG COMMENTS

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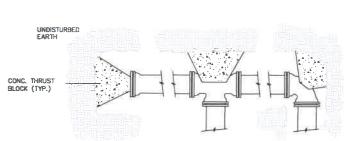
FUSS & O'NEILL

90 COMMENCAL STREET
MANCHESTER, NEW HAPPEHER 60101
60 ASSESSED.



CIVIL DETAILS
WATER AND SEWER
TAX MAP 257 LOT 66
TEBBETTS ROAD

PROJ. No.: 20200646,A10 DATE: JANUARY 2021



PLAN - HORIZONTAL BENDS, TEES AND PLUGS CONCRETE THRUST BLOCK UNDISTURBED

ELEVATION - VERTICAL BENDS

- NOTES

 1. THRUST BLOCK DIMENSIONS TO BE DETERMINED IN FIELD BY ENGINEER BASED ON PIPE SIZE, WATER PRESSURE AND SOIL TYPE.

 2. STONE BACKING MAY BE SUBSTITUTED FOR CONCRETE THRUST BLOCKS PROVIDED THE STONE(S) ARE OF EQUAL SIZE AND BEAR ON UNDISTURBED EARTH.

 3. USE OF JOINT RESTRAINT SYSTEMS SHALL NOT ELIMINATE THRUST BLOCK REQUIREMENTS (WHERE POSSIBLE).

Typical Thrust Blocks

DI FIRE SERVICE TO BLDG LOAM AREA PAVED AREA NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO CITY OF ROCHESTER STANDARDS OF INFRASTRUCTURE DESIGN SPECIFICATIONS. 2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5.5' FROM TOP OF PIPE TO FINISH GRADE. 4" COMPACTED SEE PAVEMENT DETAIL FOR SELECT MATERIAL DEPTHS Typical Domestic Water Service Tapped Off Fire Service SUITABLE BACKFILL COMPACTED AS MIN. CDVER: WATER LINE: 5.0' WATER SERVICE: 5.0' SPECIFIED SHALL CONFORM TO STANDARD SPEC'S SAND CUSHION INSTALL 2' THICK X 5' WIDE BLUEBOARD INSULATION ABOVE WATER LINE IN ANY AREAS WITH LESS THAN 5.0 INSTALL METALLIC WARNING TAPE COVER (TYP) WRAP WATER MAIN IN 8 MIL POLYETHYLENE PER SAND CUSHION 6'BELOW PIPE AWWA SPECIFICATIONS IN EARTH OR 12' BELOW PIPE IN LEDGE UNDISTURBED

NOTES:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS. DEPTH FOR BITUMINOUS PAVEMENT SHALL BE AS SPECIFIED IN PAVEMENT DETAIL.

2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO TOWN SPECIFICATIONS.

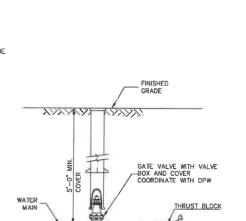
3. MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.

4. A MINIMUM 2' CUTBACK IS REQUIRED AT THE TOP OF THE TRENCH WALL OVER UNDISTURBED MATERIAL.

5. COMPACTION SHALL BE IN 12—INCH LAYERS FOR BEDDING AND BLANKET MATERIALS.

6. BACKFILL MATERIAL SHALL BE COMPACTED IN NO MORE THAN 3—FOOT THICK LAYERS TO THE GROUND SURFACE EXCEPT FOR ROAD CONSTRUCTION WHERE THE FINAL 3 FEET SHALL BE COMPACTED IN NOT MORE THAN 3—FOOT THICK LAYERS TO THE GROUND SURFACE EXCEPT FOR ROAD CONSTRUCTION WHERE THE FINAL 3 FEET SHALL BE COMPACTED IN NOT MORE THAN 12—INCH THICK LAYERS TO THE ROAD SURFACE.

Typical Water Trench Detail



COPPER DOMESTIC SERVICE. MINIMUM 5' OF COVER

Buried Gate Valve Detail N.T.S 8' OR SMALLER FE22 5, DB TYP STORM DRAIN

CONDITION II

HAWC RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.

- 2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
- ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1' PIECE OF INSULATION CENTERED OVER SEAM.

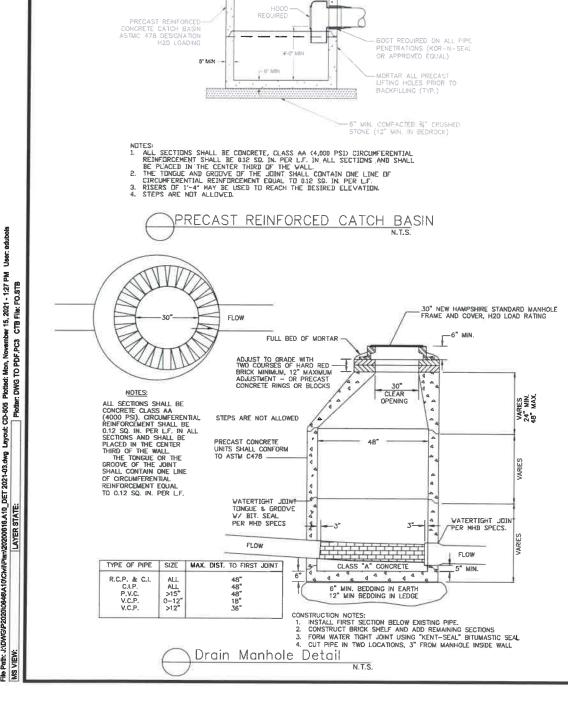
Storm Drain -Watermain Intersecting Runs

N.T.S.

N.T.S.

BLDG

FESS 5. OK

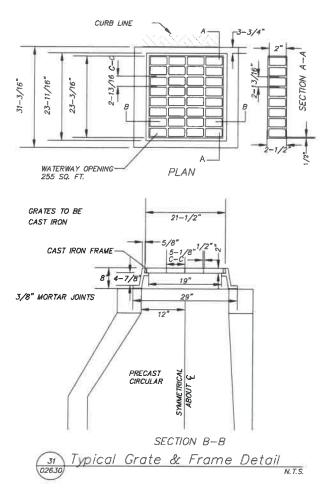


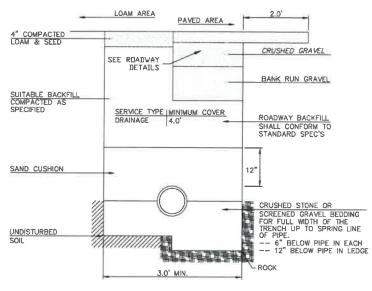
munn

INSTALL BUTYL/BITUMINOUS JOINT SEALANT AT ALL PRECAST JOINTS (CONSEAL OR APPROVED EQUAL)

BRICK TO BE USED TO ACHIEVE— FINISH FRAME AND GRATE ELEVATION (CONCRETE RISERS NOT ACCEPTED). FRAME TO BE SET IN FULL BED OF MORTAR

ALL CONES SHALL BE-ECCENTRIC TYPE ONLY





NOTES:

1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS. DEPTH FOR BITUMINOUS PAVEMENT SHALL BE AS SPECIFIED IN PAVEMENT DETAIL.

2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO SUBDIVISION SPECIFICATIONS.

3. IN LIEU OF THE 12" GRAVEL COURSE AND 6" CRUSHED GRAVEL, 18" OF CRUSHED GRAVEL OR RECLAIMED STABILIZED BASE MAY BE USED AS A BASE FOR THE PAVEMENT REPAIR.

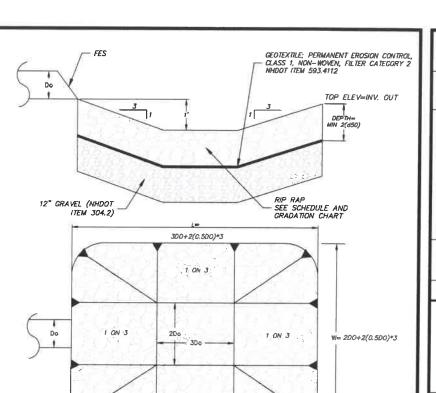
4. MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.

5. A MINIMUM 2" CUTBACK IS REQUIRED AT THE TOP OF THE TRENCH WALL OVER UNDISTURBED MATERIAL.

6. USE CLASS V CONCRETE IN LOCATIONS WITH LESS THAN 3" OF COVER.

7. IF LEDGE IS DISCOVERED, REMOVE A MINIMUM OF 2" BELOW GRAVELS AND REPLACE WITH SAND.

Typical Drainage Trench Detail

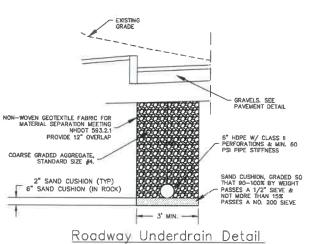


IN.	RIP RAP GRADATION	(PER NRCS)
	% OF WEIGHT SMALLER	
	THAN THE GIVEN SIZE	SIZE OF STONI
	100	6.0 TO 8.0 d5
	85	5.0 TO 7.0 d5
	50	4.0 TO 6.0 d5
	15	1.0 TO 2.0 d50

Culvert Location	FES15	FES15	FES25
	(From CB14)	(From CB11)	(From CB26)
Do(ft)	1.00	1.80	1.50
Q(cts)	1.3	1,1	4.7
Bottom of Scour Hole Width	2	2	3
Bottom of Scour Hole Length	3	3	5
Depth of Scour Hole	0.5	0.5	0.75
Top of Scour Hale Width	6	6	9
Top of Scour Hole Length	5	5	ê
d50 (in.) min	40	40	4.0

NOTES:
1. CALCULATIONS ILLUSTRATE THAT BASIN FOREBAYS ARE LARGER THAN REQUIRED PLUNGE POOLS.
2. CALCULATIONS FOR THE ABUTTING LOT ARE ILLUSTRATED WITHIN THE TABLE, REFER TO OTHER PLAN SET FOR FES NOT ILLUSTRATED UPON THIS PLAN SET.

RipRap Plunge Pool Detail



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DUBOIS III No. 11921 10726/2021 CENB

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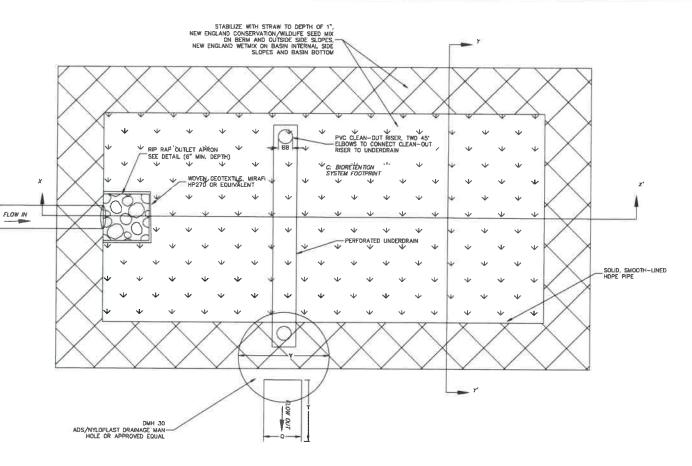
FUSS & O'NEILL
SOCKHEICH STREET
MACHESTER, NEW HAUFEITE GEIG
GOAGGEOT
TWE ERSCHEICH

CIVIL DETAILS
STORMWATER
TAX MAP 257 LOT 66
TEBBETTS ROAD

EFI EXPRESS

DATE: JANUARY 2021

CD-505



6.2. DEBRIS AND OTHER FUREIGNIN MAIENTAL SHOULD BE MINIMILEU.
6.3. ORGANIC MATTER SHOULD HAVE UP A MINIMUM OF 3% BY VOLUME AND A MAXIMUM 8% BY VOLUME OF THE BSM.
6.4. BSM MIXTURE SHOULD HAVE A SOIL REACTION PH OF 6 TO 7/
6.5. CATION EXCHANGE CAPACITY (cost) OF BSM SHOULD BE A MINIMUM OF 10 MEQ PER 100
M. AT A PH OF 7.0.
7. IF BSM IS PURCHASED FROM A MANUFACTURER, BSM MIXTURE SHALL NOT CONTAIN THE FOLLOWING;
7.1. UMACCEPTABLE MATERIALS: CONCRETE SLURRY, CONCRETE LAYER OR CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS, ASPHALT, BRICKS, OILS, CASCUME, DIESEL FUEL, PANT THINNER, TURPENTINE, TAR, ROCFING COMPOUND, ACID, SOILD WASTE, OR OTHER CASTER, BUILDING DEBRIS, ASPHALT, BRICKS, OILS, CASCUME, DIESEL FUEL, PANT THINNER, TURPENTINE, TAR, ROCFING COMPOUND, ACID, SOILD WASTE, OR OTHER CASTER, BUILDING DEBRIS, ASPHALT, BRICKS, OILS, CASCUME, DIESEL FUEL, PANT THINNER, TURPENTINE, TAR, ROCFING COMPOUND, ACID, SOILD WASTE, OR OTHER CASTERABEOUS MATERIALS STONES, ROOTS, PLANTS, SOO, CLAY LUMPS, OR POCKETS OF COURSE SAND THAT EXCEED A COMMINIOR DAMBIUM OF SK BY DRY WEIGHT OF THE MANUFACTURED SOIL.
7.3. LIRGE MATERIALS: STONES, CLODS, ROOTS, CLAY LUMPS EXCEEDING 0.187 IN (4.76 MM) WAY DIMENSION.
8. ORGANIC SOIL MEDICALS STONES, CLODS, ROOTS, CLAY LUMPS EXCEEDING 0.187 IN (4.76 MM) WAY DIMENSION.
8. ORGANIC SOIL MEDICALS STONES, CLODS, PHACHMAN PEAT MOSS, FINELY DIVIDED OR OF GRANGUAR TEXTURE WITH 1002 PASSING THROUGH A 172-IN (13 MM) SEVE, WITH A PHORE OF COURSE OF THE CRUSHED STONE LAYER SHOULD CONSIST OF AASHTO \$65 STONE (X/4-MN).
9. THE CRUSHED STONE LAYER SHOULD CONSIST OF AASHTO \$65 STONE (X/4-MN).

ID	DESIGN PARAMETER	MIN	SMA 300 DESIGN	UNITS
Α	SYSTEM FLOOR WIDTH		22	FT
В	SYSTEM FLOOR LENGTH		36	FT
С	BIORETENTION FOOTPRINT AREA		800	SF
D	WATER QUALITY VOLUME		935	CF
E	WQV ELEVATION		197.55	FT
F	SYSTEM FLOOR ELEVATION		190.80	FT
G	BOTTOM BSM ELEVATION		189.30	FT
Н	BOTTOM STONE ELEVATION		187.80	FT
1	TOP STONE/OUTLET INVERT ELEVATION		189.05	FT
J	WOV PONDING DEPTH		0.75	FT
К	BSM MEDIA DEPTH	18	18	IN
U	INLET END PEA GRAVEL DEPTH		8	IN.
Lo	OUTLET END PEA GRAVEL DEPTH	3	3	IN
Mî	INLET END CRUSHED STONE DEPTH		9	IN
Mo	OUTLET END CRUSHED STONE DEPTH	14	14	
N	SUBDRAIN DEPTH ABOVE BOTTOM	4	4	IN
0	PERFORATED SUBDRAIN DIAMETER	6	6	IN
P	OUTLEY STRUCTURE DIAMETER (I.D.)	6	48	IN
0	OUTLET PIPE DIAMETER	6	12	IN
R	INFLOW PIPE DIAMETER		12	IN
S	PERFORATED UNDERDRAIN LENGTH		20	FT
Т	OUTLET PIPE LENGTH		SEE TABLE	FT
U	INFLOW PIPE LENGTH		SEE TABLE	FT
V	SIDE SLOPE GRADE (RUN PER 1FT RISE)		3	FT/FT
w	ROCK APRON WIDTH		N/A	IN
x	ROCK APRON LENGTH		N/A	FT
Y	RISER DOME GRATE DIAMETER		48	IN
Z	PVC LINER SLOPE		1 1	×
AA	OUTLET PIPE SLOPE		0.5	×
88	CLEAN-OUT RISER DIAMETER		6	IN
cc	CLEAN-OUT RISER ELEVATION		191.80	FT
CC	PVC LINER GAP	0.1*B	3.6	FT
EE	UNDERDRAIN PIPE DRIFICE DIAMETER	1.0	1.0	IN
FF	TOP OF POND BERM ELEVATION		193.50	FT

TOP OF POND BERM EL-ADS/NYLOPLAST DRAINAGE MAN HOLE OR APPROVED EQUAL FLOW IN BIORETENTION SOIL MIXTURE - AA: OUTLET SLOPE PERFORATED UNDERDRAIN LINER, SEE NOTE SOLID PIPE-SECTION X-X'

ACCEPTABLE PARTICLE SIZE DISTRIBUTION OF FINAL BIORETENTION SOIL MIX MEDIA TYPE SIEVE # SIZE (IN) SIZE (MM) % PASSING 4 COURSE SAND 0.19 4.76 100 0.08 2.00 MEDIUM SAND 10 FINE SAND 40 0.02 0.42 40-15 SILTS 200 0.00 0.75 10-20 CLAYS <200 PAN PAN

BIORETENTION SOIL MEDIA COMPONENTS: *

- 60-85% SAND (0.5 TO 2.0 MM) (SEE SPECS ABOVE)
 15-25% LOAM OR TOPSON
 3-8% ORGANIC MATTER
 0-5% WATER TREATMENT RESIDUALS OR IRON FILINGS **

- * ALTERNATIVELY, USE MEDIA SPECIFIED IN THE ALTERATION OF TERRAIN RULES, ENV-WO 1508.07(k) ** THIS IS AN AMENDMENT USED FOR ENHANCED PHOSPHORUS

- 1. ACCEPTABLE LINER OPTIONS INCLUDE:
 15. SOIL. COMPACTION: 6-12 IN CLAY SOIL (MINIMUM 15% PASSING THE #200 SIEVE AND A MAXIMUM PERMEABILITY OF \$110-5 CM/S)
 16. A 40 MIL PYC LINER WITH SAND BEDDING AND/OR NON-WOVEN GEOTEXTILE. PVC LINERSEAMS MAY BE WELDED, TAPED (WATERPROOF TAPE), OR OVERLAPPED (MIN. ONE FOOT).
 16. A 4" THICK LAYER OF BENTONTE.

INTERNAL STORAGE RESERVOIR (ISR) NOTES:

- 1. THE HYBRID BIORETENTION SYSTEM HARBORS AN ANAEROBIC INTERNAL STORAGE RESERVOIR FOR NUTROGEN REMOVAL
- NITROCEN REMOVAL.

 NITROCEN REMOVAL.

 2. THE ISR IS SEPARATED BY AN IMPREMEABLE PVC LINER BETWEEN THE PEA GRAVEL AND CRUSHED STONE LAYERS.

 3. THE PVC LINER SLOPES FROM THE OUTLET TOWARDS THE INLET TO MAXIMIZE STORAGE RETENTION AND PROVIDE EXTRA TREATMENT/FILTER TIME VAN PLUG FLOW THROUGH CRUSHED STONE.

 4. WATER VOLUME IN THE ISR SHALL BE 28% OF THE WOV.

 5. PVC LINER THICKNESS OF 40 TO 60 MIL, PREFERABLY SEAMLESS. IF SEAMS ARE LINAVOIDABLE, THE SEAMS SHALL BE SEALED.

LINER NOTES:

Hybrid Bioretention Pond with Internal Storage Reservoir

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CIVIL DETAILS STORMWATER

EFI

TAX MAP 257 LOT 66 TEBBETTS ROAD

ADS/NYLOPLAST DRAINAGE MAN HOLE OR APPROVED EQUAL PVC LINER SECTION Y-Y

CAPPED PVC CLEANOUT RISER (W/ TWO 45' BENDS) -LINER (SEE NOTE 1) PERFORATED UNDERDRAIN

CD-506

F&C WETL

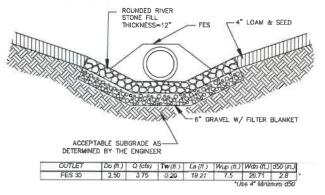
R HIFGE AND WETLANDS A CITY, DES WETLANDS, A R CITY TRG, PB, AOT, & WE CITY TRG COMMENTS

F F F F F

MPHONSI DUBOIS II No. 11921 J0/26/2021 CENBE

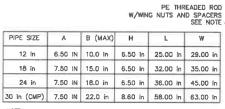
FUSS & O'NEILL

THE HEIGHT OF THE STRUCTURAL LINING ALONG THE CHANNEL SIDES SHALL BEGIN AT THE ELEVATION EQUAL TO THE TOP OF THE CONDUIT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.



PROVIDE CLASS I RIP RAP (MIN)

Rounded River Stone Apron Outlet Protection



NOTE: PE THREADED ROD W/WING NUTS PROVIDED FOR END SECTIONS 12"-24". 30" & 36" END SECTIONS REQUIRE TWO (2) THREADED RODS FOR ASSEMBLE.

ROUNDED RIVER STONE (SEE SCHEDULE AND GRADATION CHART)

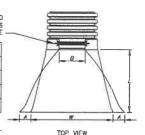
RIP RAP GRADATION

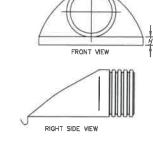
Rounded River Stone Detail

SIZE OF STONE

% OF WEIGHT SMALLER THAN THE GIVEN SIZE

12' CRUSHED GRAVEL

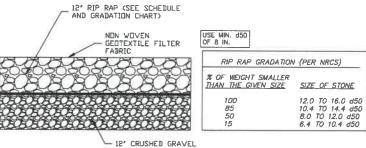




N.T.S.

8 to 15

HDPE Flared End Section



Rip Rap Weir Detail

	Table 4-4. Bioretent	on Filter Medi	2
	Percent of Mixture		Gradation of Material
Component Material	by Volume	Sieve No.	Percent by Weight Passing Standard Slove
	Filter Media	Option A	
STM C-33 concrete sand	50 to 55		
oarny sand topsoil, with fines is indicated	20 to 30	200	15 to 25
Moderately fine shredded bank or wood fiber mulch, with fines as indicated	20 to 30	200	< 5
	Filter Media t	Option B	
Noderately fine shredded bark or wood fiber mulch, with fines is indicated	20 to 30	200	<5
	70 to 80	10	85 to 100
		20	70 to 100
parny coarse sand			

Filter Media Mix

1. FILTER MEDIA TO BE MIXED/COMBINED PRIOR TO INSTALLATION. 2. DO NOT APPLY IN LAYERS/LIFTS.

STORMWATER MAINTENANCE NOTES:

- NFILTRATION BASIN

 1. EMBANKMENT THE EMBANKMENT SHOULD BE INSPECTED ANNUALLY TO DETERMINE IF RODENT BURROWS, WET AREAS, OR EROSION OF THE FILL IS TAKING PLACE.

 2. VEGETATION THE VEGETATED AREAS OF THE STRUCTURE SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH. LIME AND FERTILIZER SHOULD BE APPLIED AS NECESSARY AS DETERMINED BY SOIL TESTS. TREES AND SHRUBS SHOULD BE KEPT OFF THE EMBANKMENT AND EMERGENCY SPILLWAY AREAS.

 3. INLETS PIPE INLETS AND SPILLWAY STRUCTURES SHOULD BE INSPECTED ANNUALLY AND AFTER EVERY MAJOR STORM. ACCUMULATED DEBRIS AND SEDIMENT SHOULD BE REMOVED. IF PIPES ARE COATED, THE COATING SHOULD BE CHECKED AND REPAIRED AS NECESSARY.

 4. OUTLETS PIPE OUTLETS SHOULD BE NOTED AND REPAIRED AS NECESSARY. IF EROSION IS TAKING PLACE THEM MEASURES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE THEM MEASURES SHOULD BE NOTED AND REPAIRS MADE AS NECESSARY. IF EROSION IS TAKING PLACE THEM MEASURES SHOULD BE TAKEN TO STABILIZE AND PROTECT THE AFFECTED AREA OF THE QUITETS.

 5. EDIMENT SEDIMENT SHOULD BE CONTINUALLY CHECKED IN THE BASIN. WHEN SEDIMENT ACCUMULATIONS REACH THE PREDETERMINED DESIGN ELEVATION, THEN THE SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF.
- 6. SAFETY INSPECTIONS ALL PERMANENT IMPOUNDMENTS SHOULD BE INSPECTED BY A QUALIFIED
- PROFESSIONAL.

 REFER TO THE INSPECTION AND MAINTENANCE MANUAL, LOCATED WITHIN THE ALTERATION OF TERRAIN STORMWATER MANAGEMENT REPORT.

TEST PIT DATA:

Approx Exist Elev 194 ±
Loam
10yr5/8 Fine Sandy Loam - Massive Friable
10YR 7/6 Sandy Loose, Granular
LEDGE: NONE OBSERVED
ESHWT: NONE OBSERVED
ROOTS: 30"
OWT: NONE OBSERVED
Agawam Fine Sandy Loam HSC B
6.0/20 in/hr
Approx Exist Elev 196.5 ±
Loam
10yr5/8 Fine Sandy Loam - Massive Friable
10YR 7/6 Sandy Loose, Granular
LEDGE: NONE OBSERVED ESHWT: NONE OBSERVED
ROOTS: 30"
OWT: NONE OBSERVED
Agawam Fine Sandy Loam HSC B
6.0/20 in/hr
America Police Mil.
Approx Exist Elev 196.5 ±
10yr5/8 Fine Sandy Loam - Massive Friable
10YR 7/6 Sandy Loose, Granular
LEDGE: NONE OBSERVED
ESHWT: NONE OBSERVED
ROOTS: 30" OWT: NONE OBSERVED
Agawam Fine Sandy Loam HSC B
6.0/20 in/hr
Approx Exist Elev 197 ±
Loam
10yr5/8 Fine Sandy Loam - Massive Frlable 10YR 7/6 Sandy Loose, Granular
101K 1/0 Sandy Loose, Grandial
LEDGE: NONE OBSERVED
ESHWT: NONE OBSERVED
ROOTS: 30"
OWT: NONE OBSERVED
Agawam Fine Sandy Loam HSC B 6.0/20 in/hr
,
Approx Exist Elev 197.5 ±
Loam
10yr5/8 Fine Sandy Loam - Massive Friable 10YR 7/6 Sandy Loose, Granular
101K 7/0 Sandy Loose, Grandiar
LEDGE: NONE OBSERVED
ESHWT: NONE OBSERVED
ROOTS: 30"
OWT: NONE OBSERVED
Agawam Fine Sandy Loam HSC B 6.0/20 in/hr
0.07.20 HI/HI
Approx Exist Elev 192 ±
Loam
10yr5/8 Fine Sandy Loam - Granular Loose
10YR 7/6 Very Silty/Clayey, firm, blocky
LEDGE: NONE OBSERVED
ESHWT: 32"
ESHWT: 32" ROOTS: 25" OWT: 32"
ESHWT: 32" ROOTS: 25" OWT: 32" Udipsamments, wet substratum HSC C
ESHWT: 32" ROOTS: 25" OWT: 32"
ESHWT: 32" ROOTS: 25" OWT: 32" Udlpsamments, wet substratum HSC C 0.6/2.0 in/hr
ESHWT: 32" ROOTS: 25" OWT: 32" Udipsamments, wet substratum HSC C
ESHWT: 32" ROOTS: 25" OWT: 32" Udlpsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ±
ESHWT: 32" ROOTS: 25" OWT: 32" Udlpsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ± Loam
ESHWT: 32" ROOTS: 25"
ESHWT: 32" ROOTS: 25" OWT: 32" Udipsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ± Loam 10yr5/8 Fine Sandy Loam - Massive Friable 10YR 7/6 Sandy Loose, Granular LEDGE: NONE OBSERVED
ESHWT: 32" ROOTS: 25" OWT: 32" Udipsamments, wet substratum
ESHWT: 32" ROOTS: 25" OWT: 32" Udipsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ± Loam 10yr5/8 Fine Sandy Loam - Massive Friable 10YR 7/6 Sandy Loose, Granular LEDGE: NONE OBSERVED
ESHWT: 32" ROOTS: 25" Owr: 32" Udlpsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ± Loam 10/15/8 Fine Sandy Loam - Massive Friable 10/87/7 Sandy Loose, Granular LEDGE: NONE OBSERVED ESHWT: NONE OBSERVED ROOTS: 30"
ESHWT: 32" ROOTS: 25" Owr: 32" Udlpsamments, wet substratum 0.6/2.0 in/hr Approx Exist Elev 195 ± Loam 10/r5/8 Fine Sandy Loam - Massive Friable 10/R7/6 Sandy Loose, Granular LEDGE: NONE OBSERVED ESHWT: NONE OBSERVED ROOTS: 30" OWT: NONE OBSERVED
ESHWT: 32" Owr: 32" Udipsamments, wet substratum

NOTES:

1. PERFORMED BY BRIAN PRATT OF THIS OFFICE ON NOVEMBER 24, 2020.

2. CALCULATION OF THE DESIGN INFILITRATION RATE REPRESENT KSAT VALUES FROM ENV-WO 1504/14(C)(1). SSSNME SPCIAL REFUSENT KSAT VALUES FROM ENV-WO 1504/14(C)(1). SSSNME SPCIAL PUBLICATION NO. 5, KSAT VALUES FOR NEW HAMPSHIRE SOLS. SEPTEMBER 2009. REFER TO INFLITRATION FEASIBILITY REPORT WITHIN THE DRAINAGE ANALYSIS FOR ADDITIONAL INFORMATION.

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CIVIL DETAILS
STORMWATER & TESTPIT D
TAX MAP 257 LOT 66
TEBBETTS ROAD

EFI EXPRESS

FUSS & O'NEILL

BAP BAP BAP

ACD ACD ACD

F&C

WET

NHDES
NHF&C AND WETLANDS
CITY, DES WETLANDS, A
CITY TRG, PB, AOT,& W
CITY TRG COMMENTS

#

CD-507

INTERNAL FOREBAY 3H: 1V MAX, SIDE SLOPES (TYP) RIP RAP OVERFLOW WEIR = E 4' WIDE BERM 2.0' FILTER MEDIA DEPTH ON BASIN BOTTOM AND SIDE SLOPES WITH SURFACE SEEDED/ HYDRO—SEEDED FOREBAY BOTTOM = OVERFLOW WEIR BASIN BOTTOM = C PERVIOUS MATERIAL STONE CLASS C NHDOT 585.7 OR APPROVED EQUAL LOW PERMEABILITY FILL NHDOT 203.53

STORMWATER MANAGEMENT AREAS						
STORMWATER MANAGEMENT AREA	Α	В	С	Ð	E	
SMA 100	189.50	191.50	191.50	194.25	193.00	
SMA 200	188.00	190.00	180.00	193.20	194.50	

- BASIN PREPARATION AND NOTES:

 1. PROVIDE GRASS SEED/HYDRO-SEED THAT CAN BE INUNDATED FOR 72+ HOURS.

 1.1. NEW ENGLAND WETMIX IN BASIN BOTTOM

 1.2. NEW ENGLAND CONSERVATION WILDLIFE MIX FOR SIDE SLOPES

 2. REMOVE EXISTING SOILS TO A DEPTH OF 24" BELOW BOTTOM OF BASIN.

 3. THE BASIN FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW, FOLLOWED BY A PASS WITH A LEVELING DRAG, PRIOR TO FILTER MEDIA LAYER BEING CONSTRUCTED.

 1. DN OT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.

 5. INPILITATION BASIN BOTTOM MATERIAL—MINIMUM DEPTH OF 24" FILTER MEDIA MIX.

 6. DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

INFILTRATION BASIN DETAIL

FLOW

COMPOST FILTER SOCK GENERAL NOTES:

ALTERNATIVE STAKING DETAIL

1. FOR DITCH APPLICATIONS, MINIMUM INSTALLED HEIGHT OF SINGLE SOCK NOMINALLY. SOCKS ARE PLACED PERPENDICULAR TO FLOW OF WATER. FILTER SOCKS SHALL CONTINUE UP SIDE SLOPES TO TOP OF BANK OR MAXIMUM 3-FEET ABOVE INSTALLED HEIGHT. FILTER SOCKS SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS ARE PERMANENTLY STABILIZED.

REMOVE SEDIMENT FROM BEHIND THE FILTER SOCK ONCE IT ACCUMULATES TO ONE-HALF OF THE ORIGINAL HEIGHT OF THE FILTER SOCK.

INSPECT FILTER SOCKS AFTER EACH RUNOFF EVENT. REMOVE AND REPLACE IF SIGNS OF UNDERCUTTING OR DOWNSTREAM RILLS ARE OBSERVED.

SOCKS SHOULD BE REMOVED FROM SLOPES AFTER STABILIZATION IS COMPLETE UNLESS DIRECTED OTHERWISE.

FILTER SOCKS APPLIED IN DITCHES SHALL BE COMPLETELY REMOVED ONCE VEGETATION IS ESTABLISHED.

125BN BY NORTH

AMERICAN GREEN OR APPROVED EQUAL

Compost Filter Sock Installation Detail

STAPLE 12" ON CENTER

TYPICAL STAPLE

4" LOAM & SEED LIMESTONE, FERTILIZER, MULCH SEE EROSION CONTROL NOTES FOR PROCEDURES AND MIXTURES Loam & Seed Detail

6° OVERLAP (MIN.)

Erosion Control Blanket Slope Protection

STAPLE 12"

BACKFILL AND COMPACT TRENCH AFTER INSTALLATION

LOAM & SEED

-4" OVERLAP

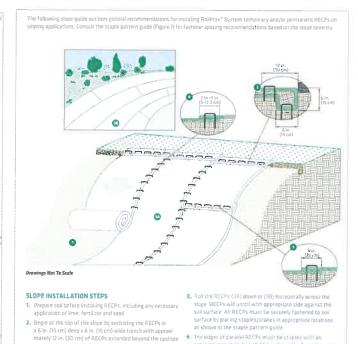
mand Demoister Net To Scale CHANNEL INSTALLATION STEPS

 Begin at the top of the channel by archoring the RECPs in a 6 in (15 cm) deep x 6 in. (15 cm) wide trench with approxi-mately 12 in (30 cm) of RECPs extended beyond the upslope portion of the trench. For supplemental scour protection portion of the creams of the compacted soil and fold the analysis of the compacted soil and fold the c remaining 12 in. (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with

 Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations

- with a 4 in -6 in. (10-15 cm) overlap. Use a double row of staples staggered 4 in (10 cm) apart and 4 in (10 cm) o
- 5. Full-length edge of RECPs at top of side stones must b
- 4 in (10 cm) on center over entire width of the channel
- 8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately \$2 in. (30 cm) again in a 6 in (15 cm) does v 6 in (15 cm) wide torses. Backfil

N.T.S.



staples/stakes approximately 12 in (30 cm) apart in the bottom of the trench. Backfill and compact the trench

the seed and compacted soil. Secure RECPs over compacte

Erosion Control Slope Installation Detail

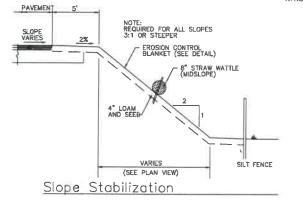
REINFORCED CORNERS

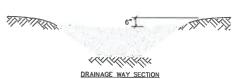
PROVIDE AND INSTALL
DANDY SACK ® BY DANDY
PRODUCT AND INSTALL
PER MANUFACTURES
RECOMMENDATIONS. Dandy Sack N.T.S.

FLAP FOLDS OVER TO ENCLOSE GRATE VELCRO CLOSURE (A) DANDY BAG TM
PATENT PENDING DANDY BAG TM SECTION A-A INSTALLATION: STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. ROLL GRATE OVER SO THAT OPEN END IS UP.

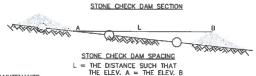
MAINTENANCE:
WITH A SITE BRISILE BROOM OR SQUARE POINT SHOVEL REMOVE SILT &
OTHER DEBRIS OFF SURFACE AFTER EACH EVENT. REMOVE FINE MATERIAL
FROM INSIDE ENVELOPE AS NEEDED.
(CONTACT DANDY PRODUCTS INC. 1-800-591-2284)

Dandy Bag N.T.S.









MAINTENANCE:

NOTES:

1. BEGIN AT THE TOP OF BLANKET INSTALLATION AREA BY ANCHORING BLANKET IN A 6" DEEP TRENCH. BACKFILL AND COMPACT TRENCH AFTER STAPLING.

2. ROLL THE BLANKET DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.

3. THE EDOES OF BLANKETS MUST BE STAPLED WITH APPROX. 4 INCH OVERLAP WHERE 2 OR MORE STIP WOTHS ARE REQUIRED.

4. WHEN BLANKETS MUST BE SPLICED DOWN THE SWALE, PLACE BLANKET END OVER END WITH 6 INCH (MINL) OVERLAP AND ANCHOR DOWN SLOPE BLANKET IN A 6 INCH DEEP TRENCH.

5. BLANKETS SHALL NOT CONTAIN WELDED PLASTIC, PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH. BLANKETS CONTAINING PLASTIC MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH. SHALL NOT BE USED DUE TO POTENTIAL ENDANGERED SPECIES.

6. BLANKETS SHALL BE COCONUT STRAW JUTE MATTING.

1. TEMPORARY GRADE STABILIZATION STRUCTURES SHOULD BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED STORMS. ANY NECESSARY REPAIRS SHOULD BE MADE IMMEDIATELY. PARTICULAR ATTENTION SHOULD BE GIVEN TO EAD RUN AND EROSION AT THE DOWNSTREAM TOO OF THE STRUCTURE. WHEN THE STRUCTURES ARE REMOVED, THE DISTURBED PORTION SHOULD BE BROUGHT TO THE EXISTING CHANNEL GRADE AND THE AREAS PREPARED, SEEDED AND MULCHED. WHILE THIS PRACTICE IS NOT INTENDED TO BE USED PRIMARILY FOR SEDIMENT TRAPPING, SOME SEDIMENT WILL ACCUMULATE BEHIND THE STRUCTURES. SEDIMENT SHALL BE REMOVED FROM BEHIND THE STRUCTURES WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE STRUCTURE.

CONSTRUCTION SPECIFICATIONS:

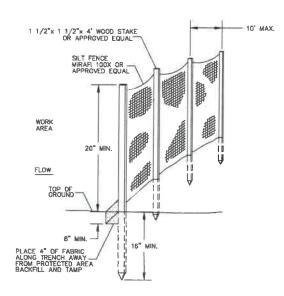
1. DAMS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS.

2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.

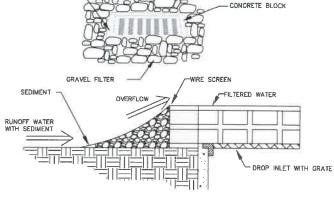
3. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BE COMPLETED.

4. STONE SHALL BE FRACTURED FACE STONE. D50 SIZE SHALL BE 2 TO 3 INCHES. NO STONE SMALLER THAN 1-1/2 INCHES OR LARGER THAN 4 INCHES SHALL BE USED.

Typical Stone Check Dam Detail



Silt Fence Barrier



Block and Gravel Inlet Sediment Filter

O'NEILL FUSS & O'N

10 COMBRIGHTA, STREET

MANCHESTER, NEW HAMP

MANCHESTER, NEW HAMP

WASHESTER, NEW HAMP

BAP BAP BAP

ACD ACD ACD

I NHDES
I NHFEG AND WETLANDS
CITY DES WETLANDS, AND F
CITY TRG, DAS METLAN
FORT TRG, DOMMENTS
FORT TRG, COMMENTS

PER PER PER

CIVIL DETAILS
EROSION CONTROL
TAX MAP 257 LOT 66
TEBBETTS ROAD EFI

DATE: JANUARY 2021

CD-508

Erosion Control Channel Installation Detail

The edges of parallel ALCPs of suffice studies with an

approximatory 2 in -5 to 15 12 % uniformly depending of the RECP type

Consecutive RECPs spiced down the slope must be end-over-end (shingle style) with an approximate 3 in. (7.5 cm) overlap Staple through overlapped area, approximately

DUST CONTROL NOTE

THE CONTRACTOR SHALL, IN ACCORDANCE WITH ENY—A 1000 "....TAKE PRECAUTIONS THROUGHOUT THE DURATION OF THE ACTIVITY IN ORDER TO PREVENT, ABATE, AND CONTROL THE EMISSION OF FUGITIVE DUST INCLIDING BUY NOT LIMITED TO WETTING, COVERING,

MAINTENANCE NOTES

SILT FENCE / FILTER SOCK

- 1. SILT FENCE/ FILTER SOCK SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

 2. IF THE FABRIC ON A SILT FENCE OR THE FILTER SOCK SHOULD DECOMPOSE OR BECOME INFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE OR FILTER SOCK, THE FABRIC OR FILTER SOCK SHALL BE REPLACED PROMPILY.

 3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE BARRIER.

 4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

BLOCK & GRAVEL INLET SEDIMENT FILTER

ALL STRUCTURES SHOULD BE INSPECTED AFTER EVERY RAIN STORM AND REPAIRS MADE AS NECESSARY. SEDIMENT SHOULD BE REMOVED FROM THE TRAPPING DEVICES AFTER THE SEDIMENT HAS REACHED A MAX. OF 1/2 THE DEPTH OF THE TRAP. THE SEDIMENT SHOULD BE DISPOSED OF IN A SUITABLE AREA AND PROTECTED FROM EROSION BE EITHER STRUCTURAL OR VEGETATIVE MEANS. THE TEMPORARY TRAPS SHOULD BE REMOVED AND THE AREA REPAIRED AS SOON AS THE CONTRIBUTING DRAINAGE AREA TO THE INLET HAS BEEN COMPLETELY STABILIZED.

BIORETENTION AREAS & SEDIMENT FOREBAY

- THE BOTTOM, INTERIOR AND EXTERIOR SIDE SLOPES AND CREST OF EARTHEN DETENTION PONDS SHALL BE MOWED, AND THE VEGETATION MAINTAINED IN HEALTHY CONDITION, AS APPROPRIATE TO THE FUNCTION OF THE FACILITY AND TYPE OF VEGETATION.

 2. VECETATED EMBANKMENTS THAT SERVE AS "BERMS" THAT IMPOUND WATER SHALL BE MOWED AT LEAST ONCE ANNUALLY TO PREVENT THE ESTABLISHMENT OF WOODY VEGETATION.
- VEGETATION.

 EMBANKMENTS SHALL BE INSPECTED AT LEAST ANNUALLY BY A QUALIFIED PROFESSIONAL FOR SETTLEMENT, EROSION, SEEPAGE, ANIMAL BURROWS, WOODY VEGETATION AND OTHER CONDITIONS THAT COULD DEGRADE THE EMBANKMENT AND REDUCE ITS STABILITY FOR IMPOUNDING WATER, IMMEDIATE CORRECTIVE ACTION SHOULD BE IMPLEMENTED IF ANY SUCH CONDITIONS ARE FOUND.

 INLET AND OUTLET PIPES, INLET AND OUTLET STRUCTURES, ENERGY DISSIPATION STRUCTURES OR PRACTICES AND OTHER STRUCTURAL APPURTENANCES SHOULD BE INSPECTED AT LEAST ANNUALLY BY A QUALIFIED PROFESSIONAL AND CORRECTIVE ACTION IMPLEMENTED AS INDICATED BY SUCH INSPECTION.

 TRASH AND DEBRIS SHALL BE REMOVED FROM THE POND AND ANY INLET OR OUTLET STRUCTURES WHENEVER OBSERVED BY INSPECTION.

- ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT SIGNIFICANTLY AFFECTS POND

TYPICAL EROSION CONTROL NOTES

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:

- 1. INSTALLATION OF PERIMETER CONTROLS (SILT FENCE OR FILTER SOCK) SHALL BE COMPLETED PRIOR TO THE START OF SITE WORK IN ANY GIVEN AREA. PREFABRICATED SILT FENCES SHALL BE INSTALLED ACCORDING TO THE MANUFACTURES' RECOMMENDATIONS.

 2. PERIMETER CONTROLS SHALL BE KEPT CLEAN DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATIVE COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EVERY FAINFALL.

 3. EXISTING VEGETATION IS TO REMAIN UNDISTURBED WHEREVER POSSIBLE.

 4. NO MORE THAN FIVE ACRES OF LAND SHALL BE LEFT DISTURBED AT ANY ONE TIME. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.

 5. STABILIZATION SHALL INCLUDE THE FOLLOWING, AT A MINIMUM:

 A. INSTALLATION OF BASE COURSE GRAVELS (IN PAYED AREAS)

 B. MINI. SST VEGETATED GROWTH

 C. INSTALLATION OF STONE OR RIP RAP MATERIAL (3" MIN. DEPTH)

 D. PROPERLY INSTALLED EROSION CONTROL BLANKETS

 6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM INSTALLED WITH NOT LESS THAN

1.10 LBS.

- 6. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 4" OF LOAM INSTALLED WITH NOT LESS THAN
 1.1 POUNDS OF SEED MIX PER 1,000 SQ, FT. SEED MIXTURE SHALL BE:

PERMANENT TALL FESCUE CREEPING RED FESCUE BIRDSFOOT TREFOIL 0.45 LBS. 0.20 LBS. TEMPORARY ANNUAL RYEGRASS

- ANNUAL RYEGRASS 1.10 LBS.

 7. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.

 8. HAY MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE AVENDED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE APPLIED. MULCH SHALL BE APPLIED. MULCH SHALL BE AVENDED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

 9. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS BAY DE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYE GRASS PRIOR TO OCTOBER 15TH.

 1. THE LAND AREA EXPOSED SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL NOT REMAIN EXPOSED MORE THAN 45 DAYS FROM INITIAL DISTURBANCE.

 11. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED A MINIMUM OF 85% OF VEGETATED GROWTH HAS BEEN ESTABLISHED A MINIMUM OF 3" NON EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
- ALL CONTRIBUTING WATERSHED AREAS MUST BE FULLY STABILIZED PRIOR TO DIRECTING STORMWATER TO THEM.

 14. ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OR GREATER RAINFALL WITHIN A 24—HOUR PERIOD.

 15. TEMPORARY WATER DIVERSION (SEDIMENT BASINS, SWALES, ETC.) MUST BE USED AS NECESSARY

- TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.

 18. CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

 17. STORMWATER BASINS AND SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE.

 18. STORMWATER BASINS AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

TEMPORARY SEDIMENT TRAP NOTES

- TEMPORARY SEDIMENT TRAPS SHOULD MEET THE FOLLOWING REQUIREMENTS:

 SEDIMENT TRAPS SHOULD BE LOCATED SO THAT THEY CAN BE INSTALLED PRIOR TO DISTURBING THE AREA THEY ARE TO PROTECT.

 THE TRAP SHOULD BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.

 THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHOULD BE LESS THAN 5 ACRES.

 THE MINIMUM VOLUME OF THE TRAP SHOULD BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.

 THE SIDE SLOPES OF THE TRAP SHOULD BE 3,1 OR FLATTER, AND SHOULD BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.

2 FMRANKMENTS

- MEANIMENTS:
 THE MAXIMUM HEIGHT OF THE SEDIMENT TRAP EMBANKMENT SHOULD BE 4
 FEET WHEN MEASURED FROM THE LOWEST POINT OF NATURAL GROUND ON THE
 DOWNSTREAM SIDE OF THE EMBANKMENT.
 THE MINIMUM TOP WIDTH OF THE EMBANKMENT SHOULD BE 6 FEET.

- 3. OUTLETS (GENERAL REQUIREMENTS):

 "THE OUTLET SHOULD BE DESIGNED, CONSTRUCTED AND MAINTAINED IN SUCH A MANNER THAT SEDIMENT DOES NOT LEAVE THE TRAP AND THAT REOSION AT OR BELOW THE OUTLET DOES NOT OCCUR.

 "OUTLETS SHOULD BE DESIGNED SO THAT THE TOP OF THE EMBANKMENT IS A MINIMUM OF 1 FOOT ABOVE THE CREST ELEVATION OF THE OUTLET.

 "THE OUTLET OF THE TRAP SHOULD BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP

 "THE OUTLET SHOULD DISCHARGE TO A STABILIZED AREA. THE OUTLETS MUST EMPTY ONTO UNDISTURBED GROUND, INTO A WATERCOURSE, STABILIZED CHANNEL OR A STORM SEWER SYSTEM.

 "OUTLETS MAY BE CONSTRUCTED AS EARTH SPILLWAYS, STONE OUTLETS, OR PIPE OUTLETS.

4. EARTH QUITLETS

- AN EARTH OUTLET SEDIMENT TRAP HAS A DISCHARGE POINT THAT IS EITHER OVER NATURAL GROUND OR CLIT INTO NATURAL GROUND.

 OVER NATURAL GROUND OR CLIT INTO NATURAL GROUND.
- THE EMBANKMENT AND OUTLET SHOULD BE VEGETATED WITHIN 3 DAYS OF
- CONSTRUCTION.

5. STONE OUTLETS:

- A STONE OUTLET SEDIMENT TRAP HAS AN OUTLET CONSISTING OF A CRUSHED STONE SECTION IN THE EMBANKMENT.
 THE STONE SECTION SHOULD BE LOCATED AT THE LOW POINT OF THE NATURAL GROUND, AS DETERMINED AT THE DOWNSTREAM SIDE OF THE
- THE OUTLET SHOULD BE CONSTRUCTED OF MINIMUM SIZE 1 1/2 CRUSHED STONE.

6. VEGETATION:

- VEGETATION:

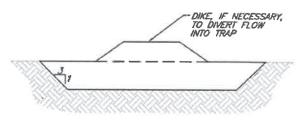
 **ALL EMBANKMENTS, EARTH SPILLWAYS, AND DISTURBED AREAS BELOW THE STRUCTURE SHOULD BE VEGETATED WITHIN 72 HOURS OF COMPLETION OF THE STRUCTURE.

 **IF THE STRUCTURE IS NOT PLANNED FOR MORE THAN ONE VEGETATIVE.

 **IF THE STRUCTURE IS NOT PLANNED FOR MORE THAN ONE VEGETATIVE ROOMMENDATION OF THE STRUCTURE MAY BE VEGETATED USING THE RECOMMENDATION OF THE TEMPORARY VEGETATION BEST MANAGEMENT PRACTICE DESCRIBED IN INDIES STORMWATER MANAGEMENT MANUAL, VOL. 2.

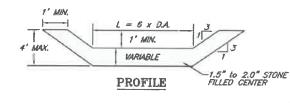
 **BASINS THAT WILL BE CARRIED OVER THE WINTER AND INTO THE NEXT VEGETATIVE GROWING SEASON SHOULD BE VEGETATED USING THE RECOMMENDATIONS FOR PERMANENT VEGETATION BEST MANAGEMENT PRACTICE.

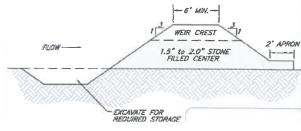
10g - CREST LENGTH (F) = 6 x DRAINAGE AREA (ACRES)



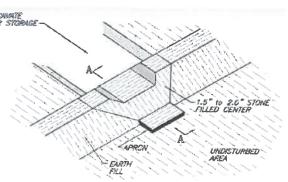
Earth Outlet Temporary Sediment

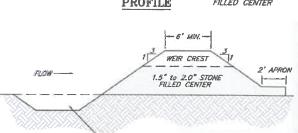
EXCAMATE FOR STORAGE -1.5" to 2.0" STONE FILLED CENTER APRON UNDISTURBED AREA EARTH





Temporary Sediment Trap





CIVIL DETAILS EROSION CONTROL 99 TAX MAP 257 LOT 66
TEBBETTS ROAD EXPRESS BFI

ONEILL

FUSS

BAP BAP

ACD ACD ACD

F&G

AND WE'T

NHOES
NHE&C AND WETLANDS
CITY, DES WETLANDS, A
CITY TRG, PB, ADT,& W
CITY TRG COMMENTS

2 2 2 2 2

2021 2021 2021

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PHONSE DUBOIS IN No. 11921 10/26/2021 CENSE

PROJ. No.: 20200646.A10 DATE: JANUARY 2021

CD-509

N.T.S.

TYPICAL CONSTRUCTION SEQUENCE

- . INSTALL HAY BALE BARRIERS AND SILT FENCES IN LOCATIONS SHOWN ON PLANS AS A MINIMUM. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATION. PREPARE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE IN SUITABLE LOCATION.
 INSPECT AND MAINTAIN EROSION CONTROL MEASURES ON A DAILY BASIS.
 DAILY OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, CULLERTS, DITCHES, SILTATION FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
 CUT AND CLEAR TREES, DISPOSE OF DEBRIS IN AN APPROVED OFF—SITE LOCATION.
 THE WORK AREA SHALL BE GRADED, SHAPED AND OTHERWISE DRAINED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. SILT FENCES, FILTER SOCIX AND/OR DETENTION BASINS WILL BE NECESSARY TO ACCOMPLISH THIS.
 TOPSOIL SHALL BE STRIPPED AND STOCKPILED DURING DRY CONDITIONS AND WITHOUT COMPACTION. TOPSOIL SHALL BE STABILIZED AGAINST EROSION.
 REMOVE ONSITE UNDESTRABLE SOILS AND LEDGE.
 GRUBBING AND STUMPING DISPOSCAL IN AN APPROVED OFF—SITE LOCATION.
 CONSTRUCT ALL DITCHES AND SWALES, SHALL BE STABILIZED PRIOR TO DIRECTING ANY STORM WATER INTO THEM.
 CONSTRUCT SLOPPE DEMBANKMENTS.
 2. ROUGH GRADE SITE OR PHASED WORK AREA. DISTURBED AREAS SHALL BE STABILIZED LOPON COMPLETION OF ROUGH GRADING PER THE EROSION CONTROL NOTES.
 SINSTALL ALL UNDERGROUND UTILITIES. INSTALL HAY BALE BARRIERS AND SILT FENCES IN LOCATIONS SHOWN ON PLANS

- STABILIZED BYON COMPLETION OF ROUGH BRADING PER THE EROSION CONTROL NOTES.

 13. INSTALL ALL UNDERGROUND UTILITIES.

 14. INSTALL DRAINAGE STRUCTURES, CULVERTS, HEADWALLS, RIP RAP, AND OTHER DRAINAGE FACILITIES. PLACE CATCH BASIN RIMS IN DANDY BAGS UNTIL PARKING AREAS ARE PAVED. STORMWARTE PONDS, INFILTRATION BASINS AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

 15. FINISH GRADING, LOAMING AND SEEDING. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 72 HOURS AFTER FINAL GRADING.

 16. COMPLETE PERMANENT SEEDING AND LANDSCAPING.

 17. TEMPORABY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS RE STABILIZED AND HAVE A HEALTHY VEGETATIVE COVER.

 18. CLEAN ALL DRAINAGE STRUCTURE SUMPS OF SEDIMENT AND DEBRIS (INCLUDES ALL STRUCTURES WITHIN THE LIMITS OF WORK).

 19. DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY ADEQUATE USE OF WATER.

WINTER EROSION CONTROL NOTES

- ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
 ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF SYCHETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORABILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHOOT ITEM 304.3.

COLD WEATHER SITE STABILIZATION

PER ENV-WQ 1505.08 - COLD WEATHER SITE STABILIZATION

- A. TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE ADDITIONAL STABILIZATION TECHNIQUES SPECIFIED IN THIS SECTION SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1.
- B. SUBJECT TO (C), BELOW, THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL
- L: LIMITED TO ONE ACRE; AND PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT.
- C. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN IS DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST AND SUBMITTED TO THE DEPARTMENT FOR APPROVAL AS A REQUEST TO WAVE THE ONE—ACRE LIMIT.

 D. SUBJECT TO (F) AND (C), BELOW, ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% THAT DO NOT EXHIBIT A MINIMUM OF B5% VEGETATIVE GROWTH BY OCTOBER 15, OR THAT ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR TEXPLIENCE OF WITH AT LEAST 2 INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV—WO 1506.05(8).
- ENV-WO 1506.05(B).

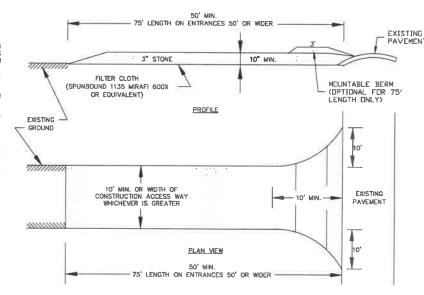
 E. SUBJECT TO (F) AND (G). BELOW, ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF 15% OR GREATER THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR THAT ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH AT LEAST 4 INCHES OF ENV-WO 1506.05(B).
- EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(B).
 ANCHORED HAY MULCH OR EROSION CONTROL MIX THAT MEETS THE CRITERIA

- F. ANCHORED HAY MULCH OR EROSION CONTROL MIX THAT MEETS THE CRITERIA OF ENV-WQ 1506.05(B) SHALL NOT BE INSTALLED OVER SNOW GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.

 H. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH (D) OR (E), ABOVE, SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.

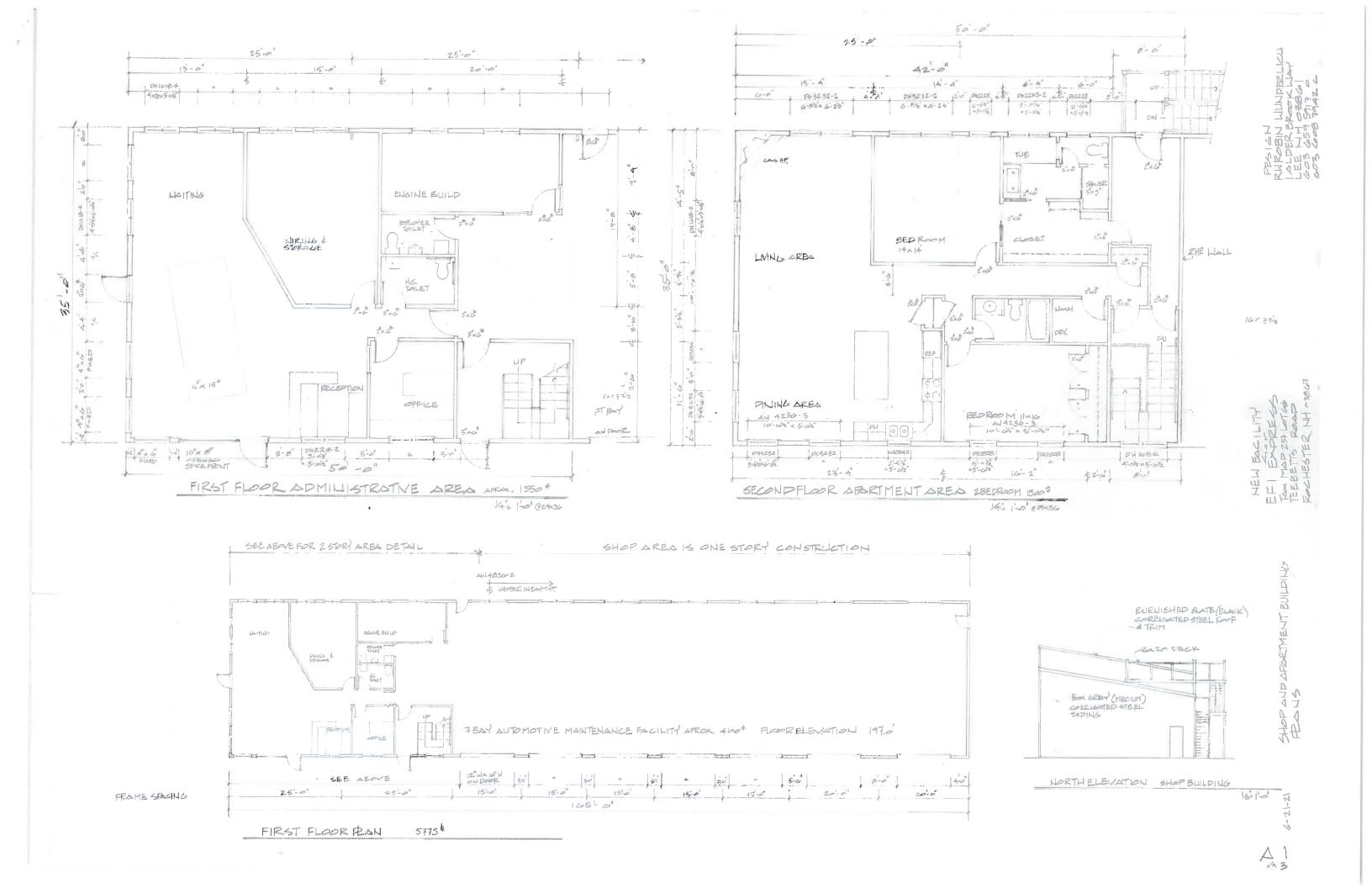
 ALL DITCHES OR SWALES THAT DO NOT EXHIBIT A MINIMUM OF B5X VECETATIVE GROWTH BY OCTOBER 15, OR THAT ARE DISTURBED AFTER OCTOBER 15, SHALL BE STRBULZED TEMPORARILY WITH STOME OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY THE OWNERS ENGINEERING CONSULTANT.

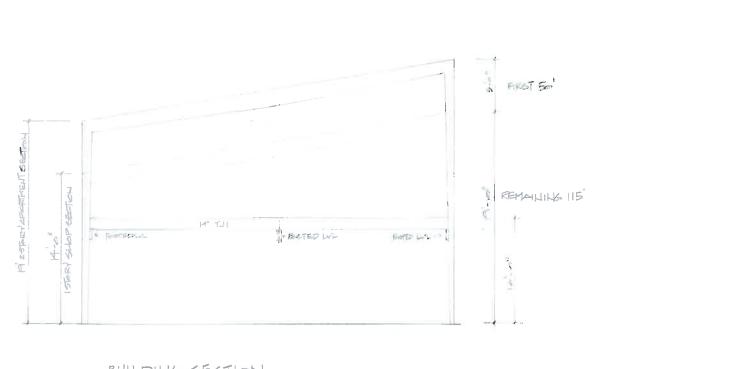
 J. AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3-INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NIDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2016, TABLE 304-1, ITEM NO. 304.1, 304.2, OR 304.3, AVAILABLE AS NOTED IN APPENDIX B.



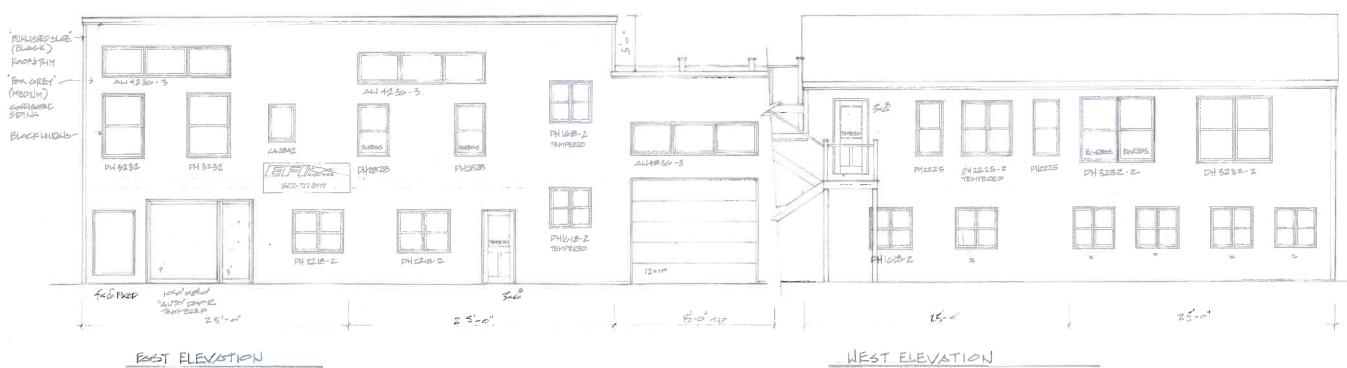
- 1. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED
- 3. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL 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 AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS—OF—WAY MUST BE REMOVED
- 4. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO

USDA - SCS Stabilized Construction Entrance





4=1-01



ESST ELEVATION

1=1-0

DH 32.32 DH3282 / 5/ 5//Ema DH168-2

19x6 FIXED =

SOUTH ELEVATION

BUILDING SECTION

4"-1-0"

12

