SITE PLAN
MEDWAY MILL
163–165 MAIN STREET
MEDWAY
MASSACHUSETTS

1. THIS SITE IS IN A FLOOD HAZARD ZONE AE AND X500.

2. THIS LAND IS ZONED AR–II.

3. THIS LAND IS LOCATED IN THE MILL CONVERSION OVERLAY DISTRICT, AN ADAPTIVE USE DISTRICT (AUOD), AND A MULTI FAMILY HOUSING OVERLAY DISTRICT (MHOD).

4. LINCOLN STREET IS CONSIDERED A SCENIC ROAD.

5. THIS LAND IS NOT LOCATED WITHIN THE NHESP AREA.

6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD. ANY DISCREPANCY WITH THE PLANS SHOULD BE REPORTED TO THE DESIGN ENGINEER UPON DISCOVERY.

7. ALL STRIPING AND SIGNAGE TO CONFORM TO "THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES."

8. REFER TO MEDWAY ASSESSORS MAP 48 LOT 92.

9. THIS SITE IS NOT IN A GROUND WATER PROTECTION DISTRICT.

10. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION.

11. THE OWNER/APPLICANT SHALL LIMIT CONSTRUCTION DEBRIS AND MATERIALS ON THE SITE. IN THE EVENT THAT DEBRIS IS CARRIED ONTO A PUBLIC WAY, THE OWNER/APPLICANT SHALL BE RESPONSIBLE FOR ALL CLEANUP OF THE ROADWAY.

12. THE EXISTING CONDITIONS TOPOGRAPHICAL SURVEY AND BOUNDARY SHOWN HEREIN WAS OBTAINED BY REED LAND SURVEYING, INC, 109 RHODE ISLAND ROAD, SUITE 4A, LAKEVILLE, MA 02347. MINOR FIELD SURVEY WAS DONE BY GUERRIERE & HALNON, INC TO UPDATE THE PARKING STRIPING AND OTHER MINOR FEATURES. GUERRIERE & HALNON, INC, WITH ELECTRONIC FILES PROVIDED BY REED LAND SURVEYING, CONVERTED THE DRAWING FROM THE PREVIOUS DATUM TO NAD83/NAVD88.

13. THE WETLANDS WERE DELINEATED BY GODDARD CONSULTING, INC. ON AUGUST 19, 2019

VICINITY MAP

SCALE: 1" = 500'

WAIVERS GRANTED

ON JUNE 22, 2021 THE BOARD VOTED TO APPROVE WAIVERS FROM THE FOLLOWING PROVISIONS OF THE RULES AND REGULATIONS FOR THE SUBMISSION AND APPROVAL OF SITE PLANS, AS AMENDED OCTOBER 8, 2019.

1. SECTION 204–5 B SITE CONTEXT SHEET
2. SECTION 204–3 F WRITTEN DEVELOPMENT IMPACT STATEMENT.
3. SECTION 204–5 D.7 UTILITIES PLAN
4. SECTION 204–5 D.8 LANDSCAPE PLAN
5. SECTION 207–9 A.7 PEDESTRIAN AND BICYCLE ACCESS AND SIDEWALKS
6. SECTION 207–17 SOLID WASTE REMOVAL
7. SECTION 207–19 LANDSCAPING. B. LANDSCAPE BUFFERS (2)
8. SECTION 207–19 LANDSCAPING. C. PARKING AREAS (1a)
9. SECTION 207–19 LANDSCAPING. H.

INDEX

**ADDITIONAL PLAN SETS BY COLLINS ENGINEERS, INC. BRIDGE DESIGN PLANS ENTITLED 'MEDWAY MILL BRIDGE WIDENING PROJECT' SHEETS 01–08

I, STEFANY OHANNESIAN, CLERK OF THE TOWN OF MEDWAY, RECEIVED AND RECORDED FROM THE PLANNING BOARD COVENANT APPROVAL OF THIS PLAN ON July 7, 2021 AND NO APPEAL WAS TAKEN FOR TWENTY DAYS NEXT AFTER RECEIPT AND RECORDING OF SAME.

Stefany Ohannesian — 10/12/2021
TOWN CLERK — DATE

COMMONWEALTH OF MASSACHUSETTS — ELIZABETH A. MAHINI-SANCHIONI — No. 49095 — REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

LEGAL NOTES

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CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS–OF–WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

165 MAIN STREET REALTY TRUST
JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA. 02053

SITE PLAN
MEDWAY MILL
163–165 MAIN STREET
MEDWAY
MASSACHUSETTS

COVER SHEET

FEBRUARY 14, 2020

DATE	REVISION DESCRIPTION
10/13/2020	REVISED PARKING CONFIGURATION
12/23/2020	PER TOWN COMMENTS
4/21/21	PER CONVERSATION WITH CLIENT
	AND CONSULTANT
6/22/21	PER PLANNING DECISION
7/30/21	PER TOWN COMMENTS

Guerriere & Halnon, Inc.
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FRANKLIN, MA 02038 FX. (508) 528–7921
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SHEET 1 OF 14 | JOB NO. F3519

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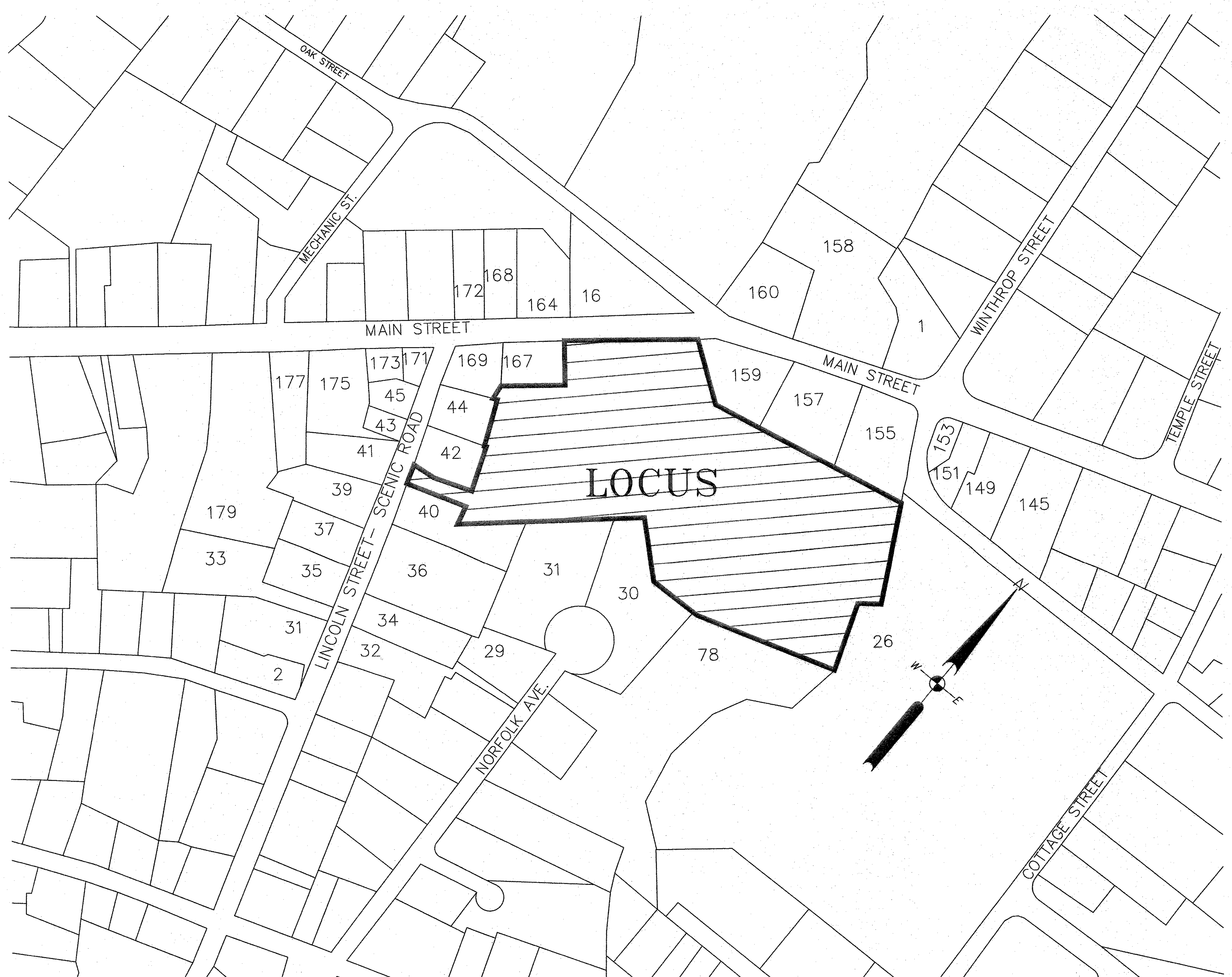

VICINITY MAP

NOT TO SCALE

ABUTTERS

0 COTTAGE ST. EVERGREEN CEMETERY ASSOC. MAP 48 PARCEL 68
1 CHOATE PARK RD. TOWN OF MEDWAY MAP 39 PARCEL 74

32 LINCOLN ST. RICHARD BRIGGS MAP 48 PARCEL 85
34 LINCOLN ST. LAURIE MARCINKIEWICZ MAP 48 PARCEL 89
35 LINCOLN ST. MICHAEL & ELIZABETH HEIDEN MAP 48 PARCEL 109
36 LINCOLN ST. JOHN & STACEY CLOUTIER MAP 48 PARCEL 90
37 LINCOLN ST. STEPHEN & KERI PATTERSON MAP 48 PARCEL 108
39 LINCOLN ST.MICHAEL MARRAFFINO TRUSTEE MAP 48 PARCEL 107
40 LINCOLN ST. JAMES COAKLEY MAP 48 PARCEL 91
41 LINCOLN ST. JENNIFER & HANS MORRISON MAP 48 PARCEL 106
42 LINCOLN ST. CALVIN & KAREN WHITLA MAP 48 PARCEL 93
43 LINCOLN ST. KRISTY HARGREAVES & MICHAEL CAMPAGNA MAP 48 PARCEL 105
44 LINCOLN ST. CATHERINE SANDOZ MAP 48 PARCEL 94
45 LINCOLN ST. FEDERICO VASQUEZ MAP 48 PARCEL 104

148 MAIN ST. UNIT A TAREK CHEBAKLO MAP 48 PARCEL C–A
148 MAIN ST. UNIT B ARTHUR PRUTSALIS MAP 48 PARCEL 9 C–B
145 MAIN ST. EARLY CAPITAL LLC MAP 48 PARCEL 22
149 MAIN ST. EARLY CAPITAL LLC MAP 48 PARCEL 21
151 MAIN ST. JOHN & CHRISTINE EARLY MAP 48 PARCEL 20
153 MAIN ST JOHN & CHRISTINE EARLY MAP 48 PARCEL 19
155 MAIN ST– DAVID AND TARA WERLICH MAP 48 PARCEL 99
157 MAIN ST– 157 MAIN ST. REALTY TRUST MAP 48 PARCEL 98
158 MAIN ST– WOMACK FAMILY FUNDING MAP 48 PARCEL 2
159 MAIN ST– PAUL & KATHLEEN YORKIS MAP 48 PARCEL 97
160 MAIN ST– SHIRLEY MCDANIEL MAP 48 PARCEL 1
164 MAIN ST. FASLAND LLC MAP 48 PARCEL 114
167 MAIN ST. JOHN & CHARLENE KAIRIT MAP 48 PARCEL 96
168 MAIN ST. RICHARD & KRYSTIN FRASER MAP 48 PARCEL 115
169 MAIN ST. I O O F TRUST MAP 48 PARCEL 95
170 MAIN ST. UNIT A ARTHUR COWAN MAP 48 PARCEL 116– CA
170 MAIN ST. UNIT B RICHARD HUFFAM & MARK DENOMMEE MAP 48 PARCEL 116– CB
171 MAIN ST. JOSE & DAMARYS CAICEDO MAP 48 PARCEL 103
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173 MAIN ST. STEVEN LINNELL MAP 48 PARCEL 102
174–A MAIN ST. PAUL CHELMAN & ROSE COTE MAP 47 PARCEL 35–A
174–B MAIN ST. MICHAEL OLIVAL MAP 47 PARCEL 35–B
175 MAIN ST. CHERYL ROSENBERG TRUSTEE 1 MAP 48 PARCEL 101
177 MAIN ST. ERIC & TANYA BOUWMAN MAP 48 PARCEL 100
179 MAIN ST. VLADMIR & SUZANNE ATEYZEK MAP 47 PARCEL 43

14 MECHANIC ST. WILLIAM & BETTYE REARDON MAP 48 PARCEL 112

26 NORFOLK AVE. CHRISTOPHER & KRISTIN BRODEUR MAP 48 PARCEL 80
29 NORFOLK AVE. PETER & BRENDA LEE CHAPIN MAP 48 PARCEL 84
30 NORFOLK AVE. JENNIFER & JOHN DIGIACOMO MAP 48 PARCEL 82
31 NORFOLK AVE. THOMAS & CLAUDETTE BANNON MAP 48 PARCEL 83

0 OAK ST. TOWN OF MEDWAY MAP 39 PARCEL 74–1

1 WINTHROP ST. LINDA S. RUSSO REVOCABLE TRUST MAP 48 PARCEL 3

F3519

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

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OWNER

165 MAIN STREET REALTY TRUST
JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA 02053

SITE PLAN
MEDWAY MILL
163–165 MAIN STREET
MEDWAY
MASSACHUSETTS

ABUTTERS FOR 300FT.

FEBRUARY 14, 2020

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SHEET 2 OF 14 | JOB NO. F3519

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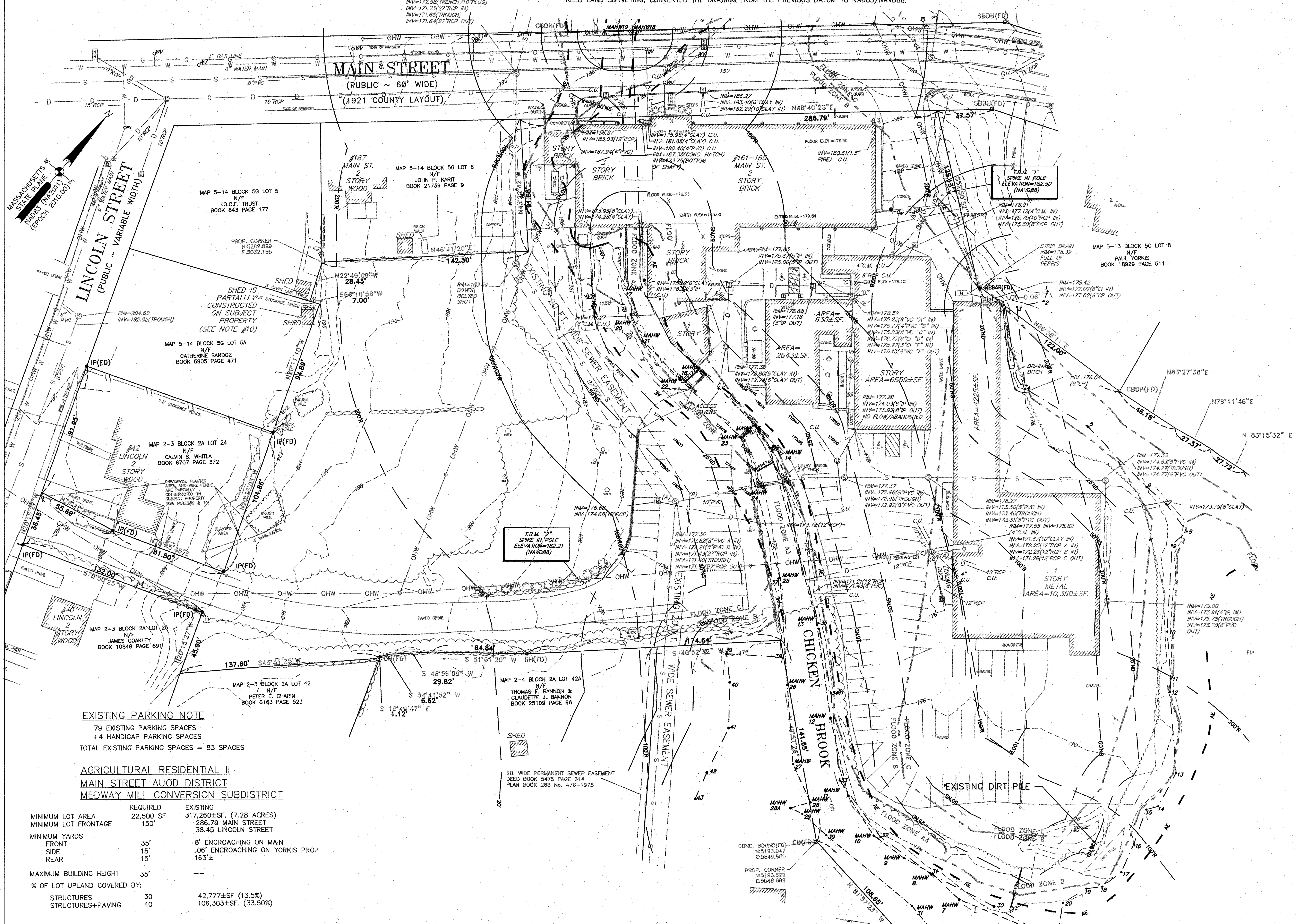

EXISTING PARKING NOTE

79 EXISTING PARKING SPACES
+4 HANDICAP PARKING SPACES
TOTAL EXISTING PARKING SPACES = 83 SPACES

AGRICULTURAL RESIDENTIAL II
MAIN STREET AUOD DISTRICT
MEDWAY MILL CONVERSION SUBDISTRICT

	REQUIRED	EXISTING
MINIMUM LOT AREA	22,500 SF	317,260±SF. (7.28 ACRES)
MINIMUM LOT FRONTAGE	150'	286.79 MAIN STREET 38.45 LINCOLN STREET
MINIMUM YARDS		
FRONT	35'	8' ENCROACHING ON MAIN
SIDE	15'	.06' ENCROACHING ON YORKIS PROP
REAR	15'	163'±
MAXIMUM BUILDING HEIGHT	35'	--
% OF LOT UPLAND COVERED BY:		
STRUCTURES	30	42,777±SF (13.5%)
STRUCTURES+PAVING	40	106,303±SF. (33.50%)

F3519

ELIZABETH A. MARINI-SANCHIONI No. 45090 — 10-6-21

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

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165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA 02053

SITE PLAN MEDWAY MILL 161-165 MAIN STREET MEDWAY MASSACHUSETTS

EXISTING CONDITIONS

FEBRUARY 14, 2020

DATE	REVISION DESCRIPTION
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0 15 30 FEET 60 90
0 2.5 5 10 METERS 20

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SHEET 3 OF 14 | JOB NO. F3519

STORM DRAINAGE NOTES

SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM:

1. INSTALL SILT SACKS.
2. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL
3. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION SYSTEM.
4. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
5. CONTRACTOR & ARCHITECT ARE TO VERIFY SITE UTILITIES PRIOR TO DESIGN & CONSTRUCTION.
6. ALL DRAINAGE PIPES ARE TO BE 12" CLASS V RCP.
7. ALL PIPE GASKETS SHALL BE PRE-MOLDED NEOPRENE O-RING TYPE (300-11 B.(2)(A)).

EXCESS MATERIALS WILL BE MAINTAINED AND REMOVED OFF SITE DUE TO LIMITED SPACE.

UTILITY NOTE

ALL UTILITIES SHALL BE CONSTRUCTED ACCORDING TO STATE AND LOCAL REGULATIONS.

TESTING INFORMATION

TESTING DATE: MARCH 25, 2010 SOIL EVALUATOR: DONALD NIELSEN, SE #1744

TP 1

192.00		
	LOAM 10YR2/2	9"
191.25		
	SUBSOIL 10YR5/8	24"
189.25		
	SAND W/SILT TRACES 3"-6" COBBLES BONEY ANGULAR ROCK BOT. OF HOLE 10YR5/8	63"
184.00		

REFUSAL @ 8'
NO GW @ 8'

TP 2

186.10		
	LOAM 10YR3/2	6"
185.60		
	SUBSOIL 10YR5/6	12"
184.60		
	SAND W/ 3"-6" COBBLES	51"
180.35		
	10YR5/4	

TP 3

176.80		
	LOAM 10YR3/2	12"
175.80		
	FILL 10YR5/6	24"
173.80		
	NATURAL LOAM	9"
173.05		
	SUBSOIL	15"
171.80		
	COARSE SAND 3"-6" COBBLES	15"
170.55		

RUST & GW @ 60"

TP 4

181.20		
	LOAM	12"
180.20		
	SUBSOIL	24"
178.20		
	SANDY LOAM 3"-6" COBBLES SOME SILT	54"
173.70		

GW @ 88"

TP 5

176.65		
	FILL	6"
176.15		
	LOAM	12"
175.15		
	GRAVELLY SUBSOIL	24"
173.15		
	FINE SILTY SAND	12"
172.15		

GW @ 3'-6"

TP 6

176.10		
	SANDY LOAM FILL	36"
173.10		
	NATURAL LOAM 10YR2/	36"
170.10		
	MED TO COARSE SAND	12"
169.10	10Y5/6	

GW @ 4'-6"

TP 7

174.50		
174.34	MULCH	2"
	CLEAN SAND FILL	66"
168.84		
	LOAM 10YR5/6	24"
166.84		
	COARSE GRAVEL	12"
165.84	10Y5/3	

GW @ 60"

AGRICULTURAL RESIDENTIAL II
MAIN STREET AUOD DISTRICT
MEDWAY MILL CONVERSION SUBDISTRICT

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	22,500 SF	317,260±SF. (7.28 ACRES)	317,260±SF. (7.28 ACRES)
MINIMUM LOT FRONTAGE	150'	286.79 MAIN STREET 38.45 LINCOLN STREET	286.79 MAIN STREET 38.45 LINCOLN STREET
MINIMUM YARDS			
FRONT	35'	8' ENCROACHING ON MAIN	8' ENCROACHING ON MAIN
SIDE	15'	.06' ENCROACHING ON YORKIS PROP	.06' ENCROACHING ON YORKIS PROP
REAR	15'	163'±	163'±
MAXIMUM BUILDING HEIGHT	35'	--	--
% OF LOT UPLAND COVERED BY:			
STRUCTURES	30	42,777±SF (13.5%)	42,777±SF (13.5%)
STRUCTURES+PAVING	40	106,303±SF. (33.50%)	125,029±SF. (39.40%)
PARKING	134	83 PARKING SPACES	135 TOTAL PARKING SPACES

EXISTING BUILDING AREAS:

	OFFICE SPACE	RETAIL	STORAGE
MAIN MILL			
FIRST FLOOR	10,790±SF.	4325±SF.	
SECOND FLOOR	8826±SF.	1505±SF.	258±SF.
THIRD FLOOR	1875±SF.		
REAR BUILDING			
FIRST FLOOR	4449±SF.		
TENANT BAY BUILDINGS			
FIRST FLOOR	1075±SF.	4537±SF.	8327±SF.
TOTAL AREAS	27,015±SF.	10,367±SF.	8585±SF.

REQUIRED PARKING FOR EXISTING USES:

PARKING SPACES REQUIRED	90 SPACES	35 SPACES	9 SPACES

TOTAL PARKING REQUIRED= 134 PARKING SPACES

PARKING NOTES

1. EXISTING PARKING SPACES ON SITE = 83 PARKING SPACES.
2. 15 PARKING SPACES PROPOSED TO THE EAST SIDE OF SITE.
3. 42 NEW PARKING SPACES PROPOSED ON THE WEST SIDE OF SITE.
4. 5 PARKING SPACES REMOVED DUE TO THE BRIDGE EXPANSION.
5. ONE SPACE REMOVED FOR HANDICAP PARKING
6. ONE SPACE ADDED ON WEST SIDE OF SITE
7. A TOTAL OF PARKING SPACES FOR THIS SITE = 135 PARKING SPACES

LEGEND

⊞	CATCH BASIN	☼	PROPOSED LIGHT POLE
Ⓓ	DRAIN MANHOLE		UTILITY POLE
Ⓔ	ELECTRIC MANHOLE		GUY WIRE
Ⓢ	SEWER MANHOLE		SIGN
	GAS VALVE	— S —	SEWER LINE
	GAS SHUT OFF VALVE	— D —	DRAIN LINE
	WATERGATE	— W —	WATER LINE
	WATER SHUT OFF VALVE	— G —	GAS LINE
	FIRE HYDRANT	—ETC—	ELEC, TEL, CABLE
VCC	VERTICAL CONC CURB	—OHW—	OVERHEAD WIRES
RW	RETAINING WALL	—25'B—	25' WETLAND BUFFER
A.F.G.	ABOVE FINISH GRADE	EP	EDGE OF PAVEMENT
	ARBORVITAE	X 000.0	SPOT ELEVATION
	SHRUB	• C.O.	CLEAN OUT
	TREE		ELECTRIC METER

TEMPORARY RETENTION AREA NOTES:

1. CONSTRUCT TEMPORARY RETENTION AREA TO COLLECT RUNOFF.
2. THE TEMPORARY RETENTION AREA IS TO BE UTILIZED AS A TEMPORARY SEDIMENTATION TRAP DURING CONSTRUCTION.
3. ALL CONSTRUCTION GRADES IN THE INTERIM SHALL BE SLOPED TO FLOW INTO THE TEMPORARY RETENTION AREA, WHERE POSSIBLE.
4. CLEAN ALL SEDIMENT OUT OF TEMPORARY RETENTION AREA PRIOR TO FINAL GRADING AND SURFACE STABILIZATION.
5. ONCE SITE IS STABILIZED REMOVE ALL REMAINING ACCUMULATED SEDIMENT AT THE BOTTOM OF THE SEDIMENT TRAP.
6. SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED.
7. CLEAN ALL ON SITE CATCH BASINS, MANHOLES, PIPING, TEMPORARY SEDIMENT TRAP, AND INFILTRATION CHAMBERS. INSTALL SILT BAGS AT EACH CATCH BASIN.
8. FOR FURTHER EROSION CONTROL NOTES REFER TO THE FOLLOWING SECTIONS ON THE DETAIL SHEETS: "INTERIM EROSION CONTROL AND CONSTRUCTION SEQUENCE" "GENERAL EROSION CONTROL AND CONSTRUCTION NOTES"

COMMONWEALTH OF MASSACHUSETTS
ELIZABETH A. MANNING-SANORIONI
No. 48006
REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

APPROVED DATE: 6-22-2021

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JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA

SITE PLAN
MEDWAY MILL
163-165 MAIN STREET
MEDWAY
MASSACHUSETTS

GENERAL NOTES

FEBRUARY 14, 2020

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0 2.5 5 10 METERS 20

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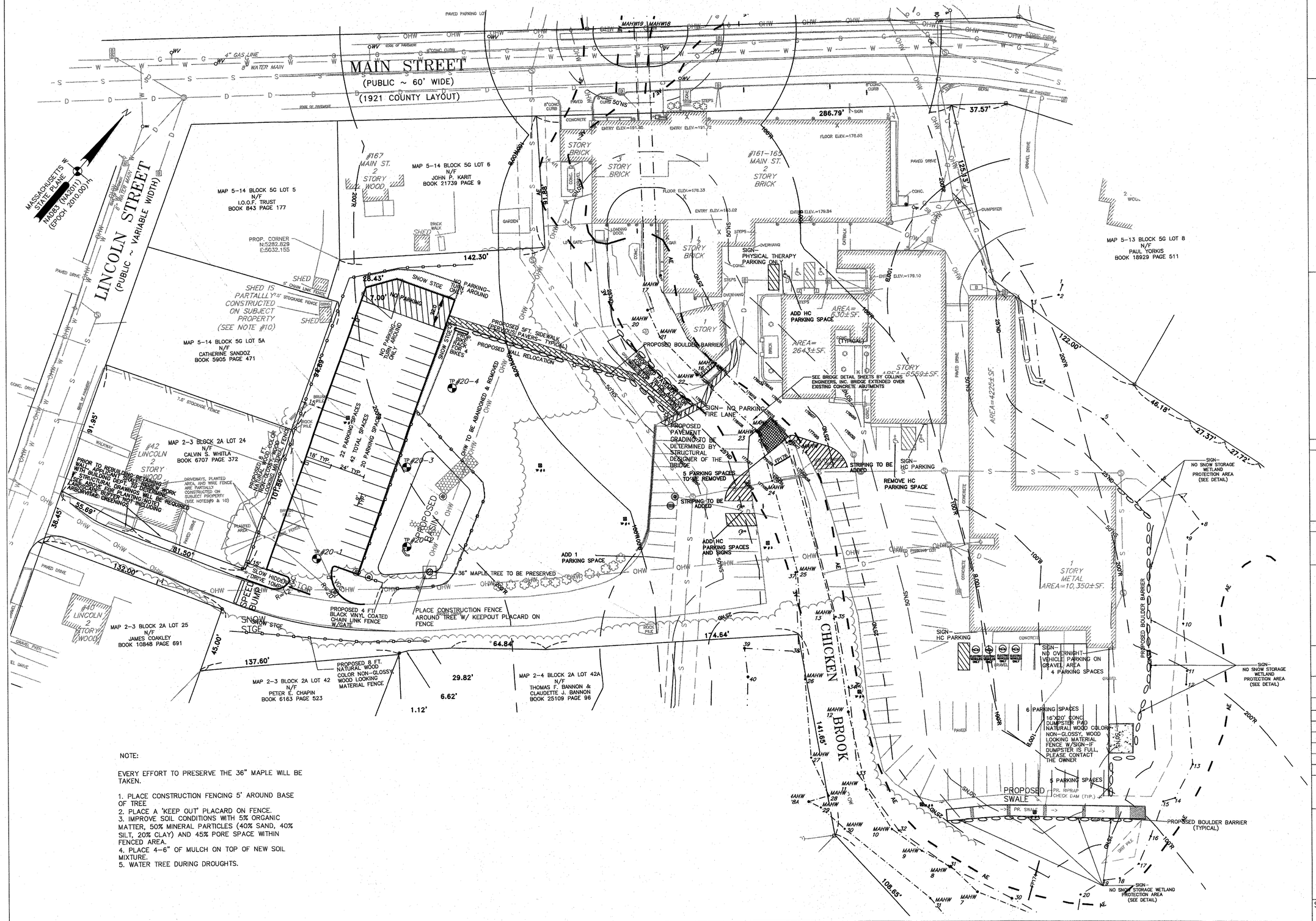
SHEET 4 OF 14 JOB NO. F3519



NOTE:

EVERY EFFORT TO PRESERVE THE 36" MAPLE WILL BE TAKEN.

1. PLACE CONSTRUCTION FENCING 5' AROUND BASE OF TREE
2. PLACE A 'KEEP OUT' PLACARD ON FENCE.
3. IMPROVE SOIL CONDITIONS WITH 5% ORGANIC MATTER, 50% MINERAL PARTICLES (40% SAND, 40% SILT, 20% CLAY) AND 45% PORE SPACE WITHIN FENCED AREA.
4. PLACE 4-6" OF MULCH ON TOP OF NEW SOIL MIXTURE.
5. WATER TREE DURING DROUGHTS.

ELIZABETH A. MAININI-SANCHIONI
No. 48096

10-6-21

F3519

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

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OWNER

165 MAIN STREET REALTY TRUST
JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA. 02053

SITE PLAN
MEDWAY MILL
163-165 MAIN STREET
MEDWAY
MASSACHUSETTS

SITE LAYOUT

FEBRUARY 14, 2020

DATE	REVISION DESCRIPTION
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0 15 30 FEET 60 90
0 2.5 5 10 METERS 20

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
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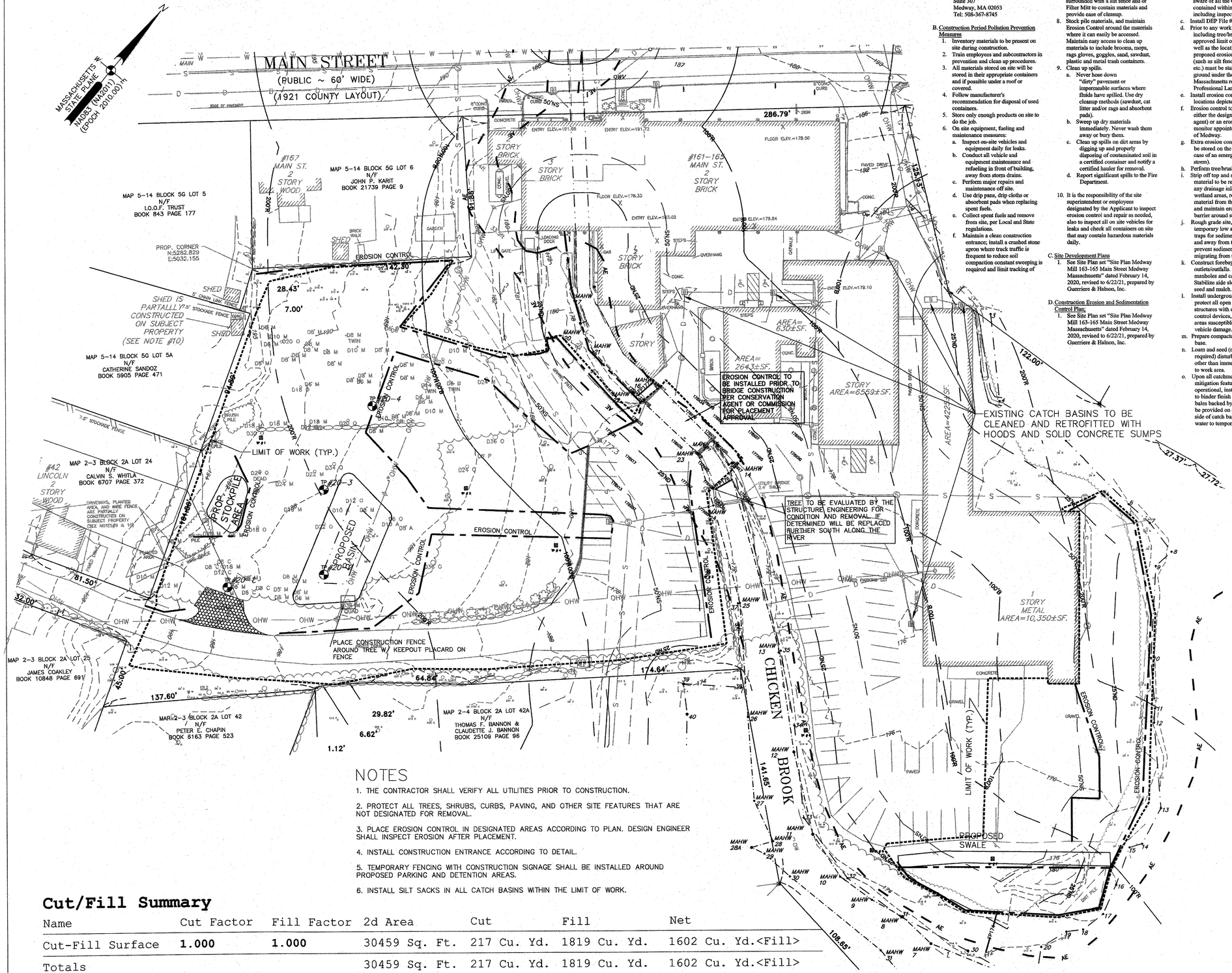
FRANKLIN, MA 02038
PH. (508) 528-3221
FX. (508) 528-7921
www.gandhengineering.com

SHEET 5 OF 14

JOB NO. F3519

S:\C3DFranklin\F3519\DWG\F3519-SITE-rev 5 parking sketch 4.dwg, 9/29/2021 8:01:03 AM, DAB



NOTES

1. THE CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
2. PROTECT ALL TREES, SHRUBS, CURBS, PAVING, AND OTHER SITE FEATURES THAT ARE NOT DESIGNATED FOR REMOVAL.
3. PLACE EROSION CONTROL IN DESIGNATED AREAS ACCORDING TO PLAN. DESIGN ENGINEER SHALL INSPECT EROSION AFTER PLACEMENT.
4. INSTALL CONSTRUCTION ENTRANCE ACCORDING TO DETAIL.
5. TEMPORARY FENCING WITH CONSTRUCTION SIGNAGE SHALL BE INSTALLED AROUND PROPOSED PARKING AND DETENTION AREAS.
6. INSTALL SILT SACKS IN ALL CATCH BASINS WITHIN THE LIMIT OF WORK.

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Cut-Fill Surface	1.000	1.000	30459 Sq. Ft.	217 Cu. Yd.	1819 Cu. Yd.	1602 Cu. Yd.<Fill>
Totals			30459 Sq. Ft.	217 Cu. Yd.	1819 Cu. Yd.	1602 Cu. Yd.<Fill>

A. Names of Persons or Entities Responsible for Plan Compliance

John Greene
NRG Concepts, Inc.
165 Main Street
Suite 307
Medway, MA 02053
Tel: 508-367-8745

B. Construction Period Pollution Prevention Measures

1. Inventory materials to be present on site during construction.
2. Train employees and subcontractors in prevention and clean up procedures.
3. All materials stored on site will be stored in their appropriate containers and if possible under a roof or covered.
4. Follow manufacturer's recommendation for disposal of used containers.
5. Store only enough products on site to do the job.
6. On site equipment, fueling and maintenance measures:
   a. Inspect on-site vehicles and equipment daily for leaks.
   b. Conduct all vehicle and equipment maintenance and refueling in front of building, away from storm drains.
   c. Perform major repairs and maintenance off site.
   d. Use drip pans, drip cloths or absorbent pads when replacing spent fuels.
   e. Collect spent fuels and remove from site, per Local and State regulations.
   f. Maintain a clean construction entrance; install a crushed stone apron where truck traffic is frequent to reduce soil compaction constant sweeping is required and limit tracking of sediment into streets, sweeping street when silt is observed on street.
7. A temporary concrete washout station and equipment wash station shall be located on the site. Areas shall be surrounded with a silt fence and or Filter Mitt to contain materials and provide ease of cleanup.
8. Stock pile materials, and maintain Erosion Control around the materials where it can easily be accessed. Maintain easy access to clean up materials to include brooms, mops, rags gloves, goggles, sand, sawdust, plastic and metal trash containers.
9. Clean up spills.
   a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (sawdust, cat litter and/or rags and absorbent pads).
   b. Sweep up dry materials immediately. Never wash them away or bury them.
   c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil in a certified container and notify a certified hauler for removal.
   d. Report significant spills to the Fire Department.
10. It is the responsibility of the site superintendent or employees designated by the Applicant to inspect erosion control and repair as needed, also to inspect all on site vehicles for leaks and check all containers on site that may contain hazardous materials daily.

C. Site Development Plans

1. See Site Plan set "Site Plan Medway Mill 163-165 Main Street Medway Massachusetts" dated February 14, 2020, revised to 6/22/21, prepared by Guerriere & Halnon, Inc.

D. Construction Erosion and Sedimentation Control Plan:

1. See Site Plan set "Site Plan Medway Mill 163-165 Main Street Medway Massachusetts" dated February 14, 2020, revised to 6/22/21, prepared by Guerriere & Halnon, Inc.

E. Plans

1. Construction Sequencing Plan
   a. A NPDES NOI shall be filed with the EPA.
   b. Record Order of Conditions - The site superintendent shall be aware of all the Conditions contained within the Order including inspection schedules.
   c. Install DEP File # Sign.
   d. Prior to any work on the site including tree/brush clearing, the approved limit of clearing as well as the location of the proposed erosion control devices (such as silt fence/straw bales, etc.) must be staked on the ground under the direction of a Massachusetts registered Professional Land Surveyor.
   e. Install erosion control barrier at locations depicted on the plans.
   f. Erosion control to be inspected by either the design engineer (or agent) or an erosion control monitor appointed by the Town of Medway.
   g. Extra erosion control devices shall be stored on the site to be used in case of an emergency (large storm).
   h. Perform tree/brush removal.
   i. Strip off top and subsoil. Stockpile material to be reused away from any drainage inlet or protected wetland areas, remove excess material from the site. Install and maintain erosion control barrier around stockpile.
   j. Rough grade site, maintaining temporary low areas/sediment traps for sediment accumulation and away from the wetlands and prevent sedimentation from migrating from the site.
   k. Construct forebay/basin, and outlets/outfalls. Install pipes, manholes and catch basins. Stabilize side slopes with loam, seed and mulch.
   l. Install underground utilities; protect all open drainage structures with erosion/siltation control devices, and rope off any areas susceptible to heavy vehicle damage.
   m. Prepare compacted pavement base.
   n. Loam and seed (mulch as required) disturbed areas of site other than immediately adjacent to work area.
   o. Upon all catchment structures and mitigation features becoming operational, install pavement up to binder finish grade. Straw bales backed by crushed stone to be provided on down gradient side of catch basins to direct water to temporary basin.
   p. Install curbing and catch basin curb inlets.
   q. Install final pavement wearing course.
   r. Construct pervious sidewalk.
   s. Finish grade - loam and seed (mulch as required adjacent to parking lot.
   t. Maintain all erosion control devices until site is stabilized and final inspections are performed.

The Contractor shall be responsible to schedule any required inspections of his/her work.

2. Construction Waste Management Plan
   a. Dumpster for trash and bulk waste collection shall be provided separately for construction.
   b. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
   c. Segregate and provide containers for disposal options for waste.
   d. Do not bury waste and debris on site.
   e. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.
   f. The sewer system is only for disposal of human waste, and substances permitted for disposal by the Charles River Pollution Control District (CRPCD).

F. Operation and Maintenance of Erosion and Sedimentation Controls

The operation and maintenance of sedimentation control shall be the responsibility of the contractor. The inspection and maintenance of the storm water component shall be performed as noted below. The contractor shall, at all times have erosion control in place. The contractor, based on future weather reports shall prepare and inspect all erosion control devices; cleaning, repairing and upgrading is a priority so that the devices perform as per design. Inspect the site during rain events. **Don't stay away from the site.** At a minimum, there should be inspection to assure the devices are not clogged or plugged, or that devices have not been destroyed or damaged during the rain event. After a storm event inspection is required to clean and repair any damage components. Immediate repair is required.

G. Inspection and Maintenance Schedules

1. Inspection must be conducted at least once every 7 days and within 24 hours prior to and after the end of a storm event 0.5 inches or greater.
2. Inspection frequency can be reduced to once a month if:
   a. The site is temporarily stabilized.
   b. Runoff is unlikely due to winter conditions, when site is covered with snow or ice.
3. Inspections must be conducted by qualified personnel, "qualified personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls and who possess the skills to assess the conditions and take measures to maintain and ensure proper operation, also to conclude if the erosion control methods selected are effective.
4. For each inspection, the inspection report must include:
   a. The inspection date.
   b. Names, titles of personnel making the inspection.
   c. Weather information for the period since the last inspection.
   d. Weather information at the time of the inspection.
   e. Locations of discharges of sediment from the site, if any.
   f. Locations of BMP's that need to be maintained.
   g. Locations where additional BMP's may be required.
   h. Corrective action required or any changes to the SWPPP that may be necessary.
5. Qualified personnel shall inspect the following in-place work;

Inspection Schedule:	
Erosion Control	Weekly
Catch Basins	Weekly
Temporary Sedimentation Traps/Basins	Weekly
Pavement Sweeping	Weekly

Please Note: Special inspections shall also be made after a significant rainfall event.

Maintenance Schedule	
Erosion Control Devices Failure	Immediately
Temporary Sedimentation Traps/Basins	As needed
Pavement Sweeping	14 days minimum and prior to any significant rain event.

Please Note: Special maintenance shall also be made after a significant rainfall event.

H. Inspection and Maintenance Log Form.

1. See Construction Phase Inspection and Maintenance Form attached

F3519

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BEING A MAJORITY

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OWNER

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JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA. 02053

SITE PLAN
MEDWAY MILL
163-165 MAIN STREET
MEDWAY
MASSACHUSETTS

EROSION CONTROL
LIMIT OF CLEARING

FEBRUARY 14, 2020

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0 15 30 FEET 60 90
0 2.5 5 10 METERS 20

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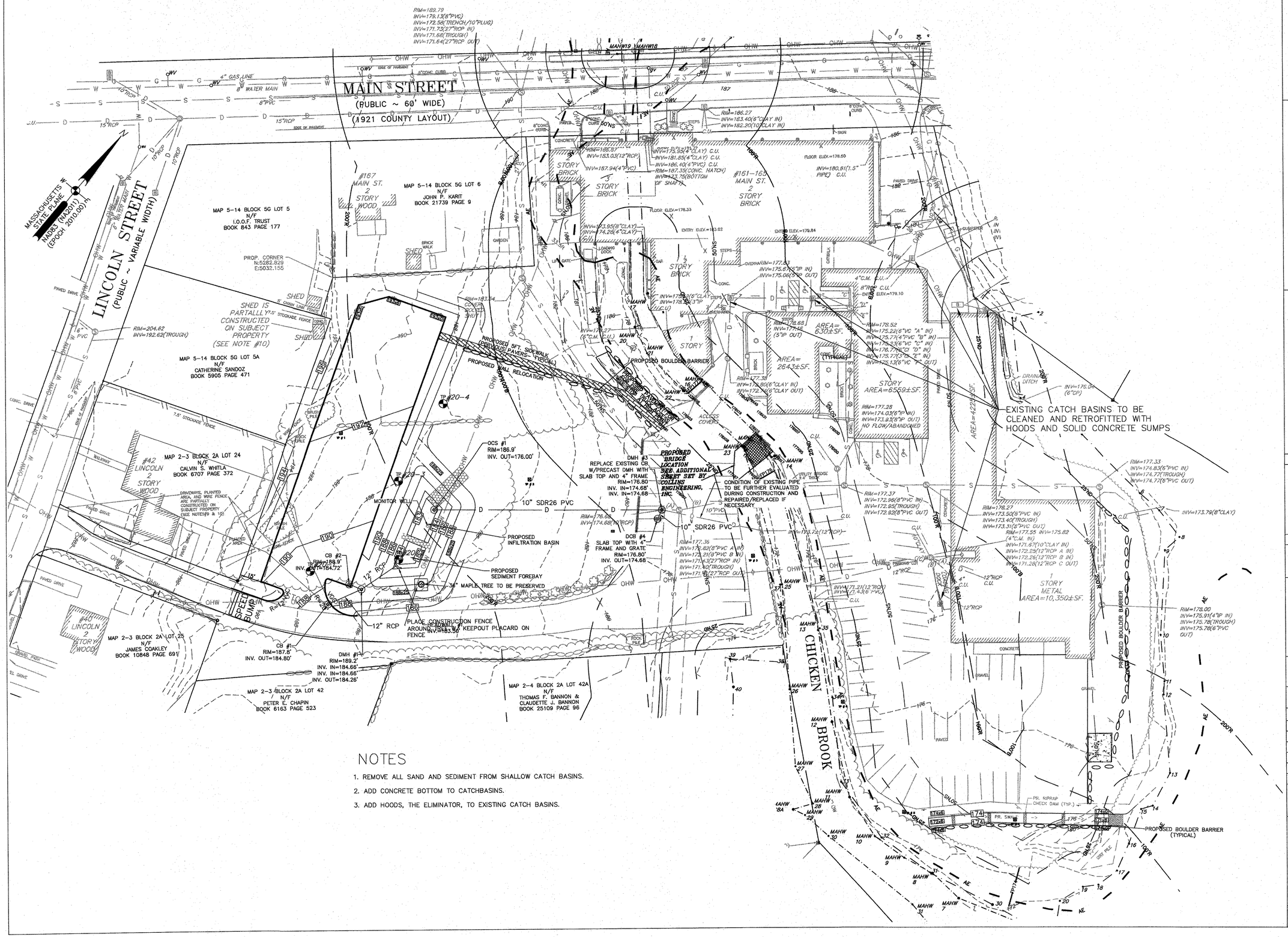
SHEET 6 OF 14

JOB NO. F3519



NOTES

1. REMOVE ALL SAND AND SEDIMENT FROM SHALLOW CATCH BASINS.
2. ADD CONCRETE BOTTOM TO CATCHBASINS.
3. ADD HOODS, THE ELIMINATOR, TO EXISTING CATCH BASINS.

ELIZABETH A. MANNING-SANCHIONI
No. 48058
REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

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GRADING AND DRAINAGE

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0 2.5 5 10 METERS 20

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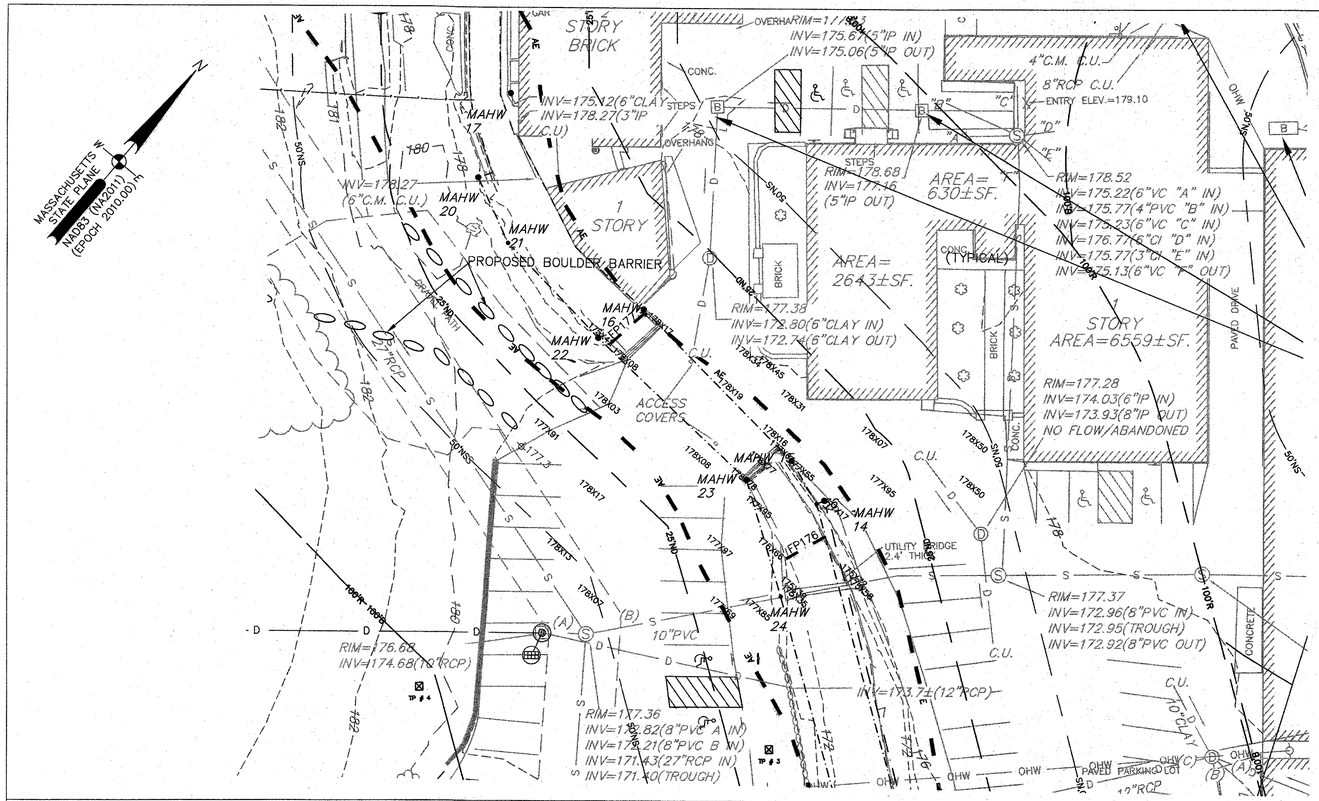
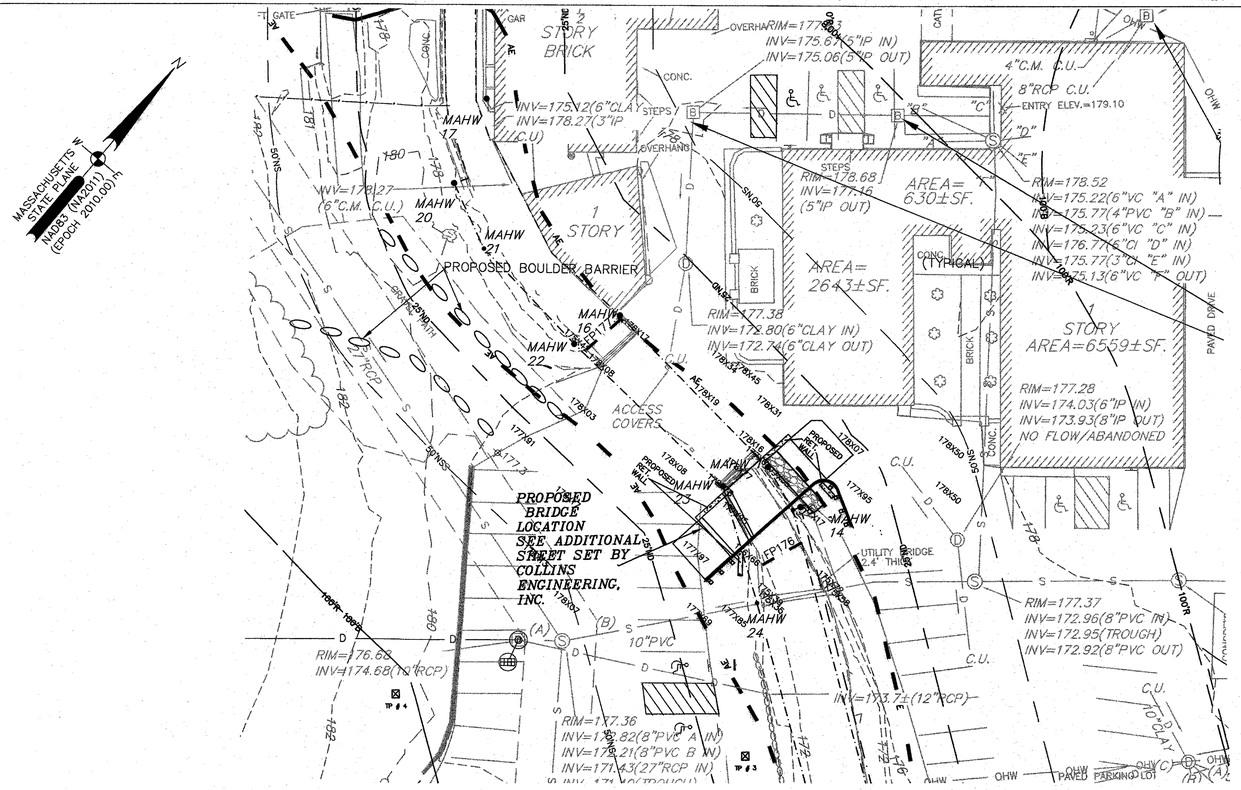
SHEET 7 OF 14

JOB NO. F3519



EXISTING CONDITIONS FOR THE AREA OF PROPOSED BRIDGE

SCALE: 1"=10'



PROPOSED BRIDGE LOCATION

SCALE: 1"=10'

F3519

ELIZABETH A. MAHIN-SANCHONI No. 48092 REGISTERED PROFESSIONAL ENGINEER COMMONWEALTH OF MASSACHUSETTS

10-6-21

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BRIDGE DETAIL

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0 5 10 FEET 20 30
0 1 2 METERS 5 8

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SHEET 8 OF 14

JOB NO. F3519

SEE PLAN ENTITLED ' MEDWAY MILL BRIDGE WIDENING PROJECT, MEDWAY MILL BRIDGE OVER CHICKEN BROOK, TOWN OF MEDWAY, NORFOLK COUNTY' BY COLLINS ENGINEERS, INC.
FOR BRIDGE DETAILS
SHEET 01-SHEET 08

F3519

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SHEET 9 OF 14
JOB NO. F3519

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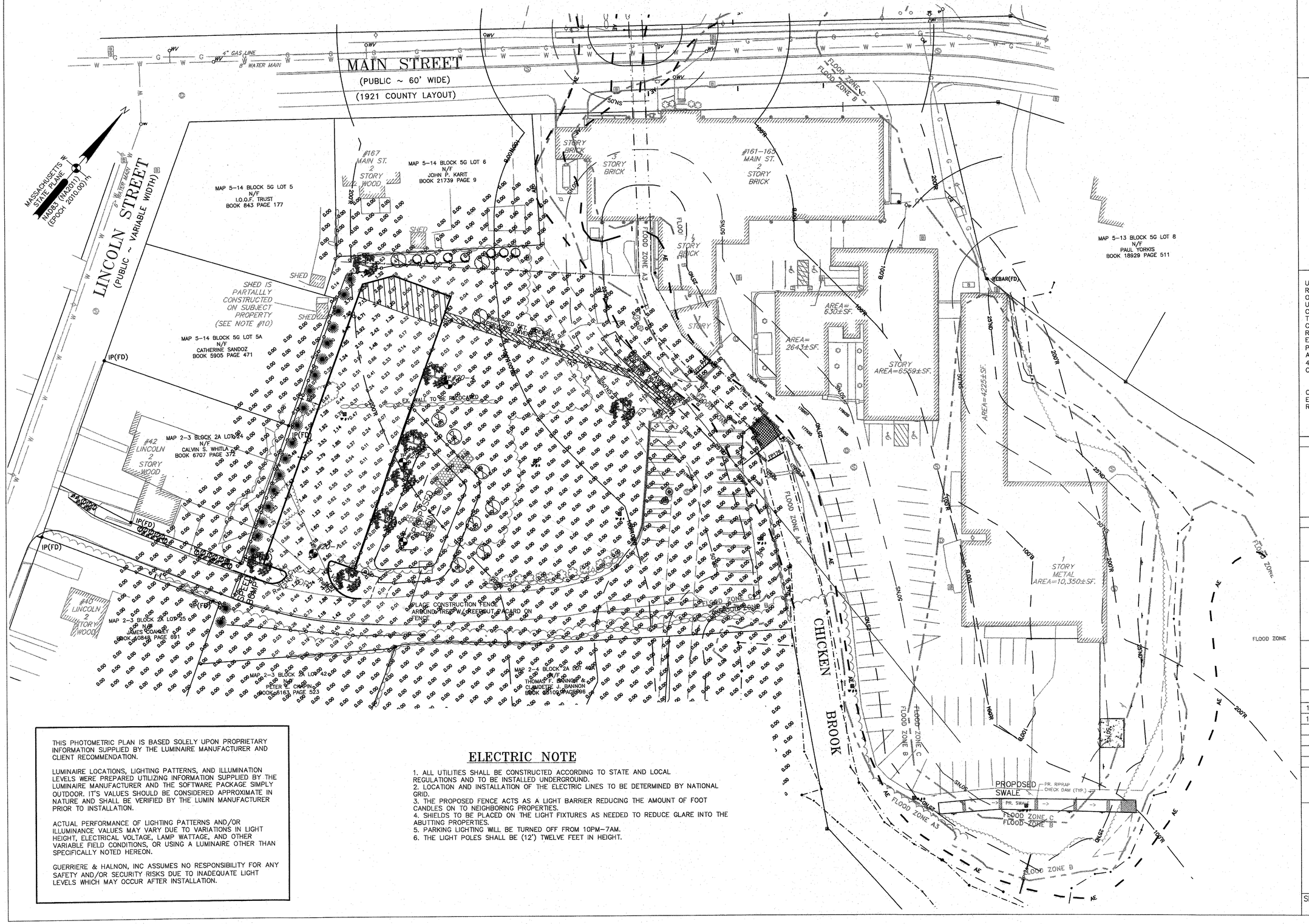

THIS PHOTOMETRIC PLAN IS BASED SOLELY UPON PROPRIETARY INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND CLIENT RECOMMENDATION.

LUMINAIRE LOCATIONS, LIGHTING PATTERNS, AND ILLUMINATION LEVELS WERE PREPARED UTILIZING INFORMATION SUPPLIED BY THE LUMINAIRE MANUFACTURER AND THE SOFTWARE PACKAGE SIMPLY OUTDOOR. IT'S VALUES SHOULD BE CONSIDERED APPROXIMATE IN NATURE AND SHALL BE VERIFIED BY THE LUMIN MANUFACTURER PRIOR TO INSTALLATION.

ACTUAL PERFORMANCE OF LIGHTING PATTERNS AND/OR ILLUMINANCE VALUES MAY VARY DUE TO VARIATIONS IN LIGHT HEIGHT, ELECTRICAL VOLTAGE, LAMP WATTAGE, AND OTHER VARIABLE FIELD CONDITIONS, OR USING A LUMINAIRE OTHER THAN SPECIFICALLY NOTED HEREON.

GUERRIERE & HALNON, INC ASSUMES NO RESPONSIBILITY FOR ANY SAFETY AND/OR SECURITY RISKS DUE TO INADEQUATE LIGHT LEVELS WHICH MAY OCCUR AFTER INSTALLATION.

ELECTRIC NOTE

1. ALL UTILITIES SHALL BE CONSTRUCTED ACCORDING TO STATE AND LOCAL REGULATIONS AND TO BE INSTALLED UNDERGROUND.
2. LOCATION AND INSTALLATION OF THE ELECTRIC LINES TO BE DETERMINED BY NATIONAL GRID.
3. THE PROPOSED FENCE ACTS AS A LIGHT BARRIER REDUCING THE AMOUNT OF FOOT CANDLES ON TO NEIGHBORING PROPERTIES.
4. SHIELDS TO BE PLACED ON THE LIGHT FIXTURES AS NEEDED TO REDUCE GLARE INTO THE ABUTTING PROPERTIES.
5. PARKING LIGHTING WILL BE TURNED OFF FROM 10PM-7AM.
6. THE LIGHT POLES SHALL BE (12') TWELVE FEET IN HEIGHT.

COMMONWEALTH OF MASSACHUSETTS
ELIZABETH A. MAINING-SANCHIONI
No. 48096
REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

APPROVED DATE: 6-22-2021

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PHOTOMETRICS

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0 10 20 FEET 40 60
0 2.5 5 METERS 10 15
SCALE: 1"=20'

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SHEET 10 OF 14

JOB NO. F3519

NOTES

1. LANDSCAPING AREA ALONG THE PROPERTY CORNER OF 42 LINCOLN STREET SHALL PROVIDE A FOUR SEASON LANDSCAPE BUFFER NOT INCLUDING ARBORVITAE SPECIES AND SHALL BE OF SUITABLE HEIGHT NOT TO BLOCK SITE VIEWS FOR VEHICLES DEPARTING THE PREMISES AND MAY INCLUDE THE REMOVAL OF PLANT MATERIALS

2. A LANDSCAPING PLAN WILL BE SUBMITTED AS A FUTURE FIELD CHANGE FOR PEDB APPROVAL. THE PLAN WILL BE DEVELOPED IN COORDINATION WITH THE OWNER OF 42 LINCOLN STREET.

3. PRIOR TO WORK TO REBUILD THE RETAINING WALL ALONG THE PROPERTY OF 42 LINCOLN STREET, THE APPLICANT SHALL REVIEW THE PLANNED WORK WITH THE BUILDING DEPARTMENT TO DETERMINE IF ANY STRUCTURAL ENGINEERING DRAWINGS ARE REQUIRED SO AS TO ENSURE THE CONTINUED VIABILITY OF THE STONE WALL TO SUPPORT THE EXISTING AND LONG ESTABLISHED DRIVEWAY.

PLANTING LEGEND

SYMBOL	NAME	SIZE	QUANTITY
	RED MAPLE ACER RUBRUM	5' MIN. 2.5" CAL.	8
	RED OAK QUERCUS RUBRA	5' MIN. 2.5" CAL.	11
	GREEN GIANT ARBORVITAE THUJA 'GREEN GIANT'	10' HIGH MIN.	20
	BALSM FIR ABIES BALSAMEA	5' MIN. 2.5" CAL.	7

NOTE: GREEN GIANT ARBORVITAE 50' HIGH AND 12'–20' SPREAD AT MATURITY

NOTES

1. THE CONTRACTOR SHALL VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
2. PLANT MATERIALS SHALL CONFORM TO THE GUIDELINES BY THE AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
3. ALL PLANTING SHALL BE PLACED ACCORDING TO THE APPROVED LANDSCAPING PLAN.
4. AFTER PLANTING 3" OF MULCH SHALL BE PLACED WITHIN THE DESIGNATED AREAS.
5. ALL PLANT MATERIAL SHALL INCLUDE A 1 YEAR GUARANTEE.
6. THE CONTRACTOR/LANDSCAPER SHALL WATER NEWLY PLANTED MATERIAL FOR 90 DAYS.
7. DAMAGED VEGETATION WILL BE REMOVED.
8. TREE PRUNING AT BRIDGE AS NECESSARY. EXISTING LIMBED OAK MAY NEED TO BE REMOVED.

AREA TO BE MOWED ONCE A YEAR– BOTTOM, SIDE SLOPES OF BASIN, ACCESS PATH

AREAS FOR PLANTING NEW ENGLAND CONSERVATION SEED MIX

ELIZABETH A. MAHINY-SANCHIONI
No. 49096
REGISTERED PROFESSIONAL ENGINEER
COMMONWEALTH OF MASSACHUSETTS
10-6-21

F3519

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. LOOKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG–SAFE(7233).

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS–OF–WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

165 MAIN STREET REALTY TRUST
JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA. 02053

SITE PLAN
MEDWAY MILL
163–165 MAIN STREET
MEDWAY
MASSACHUSETTS

LANDSCAPING

FEBRUARY 14, 2020

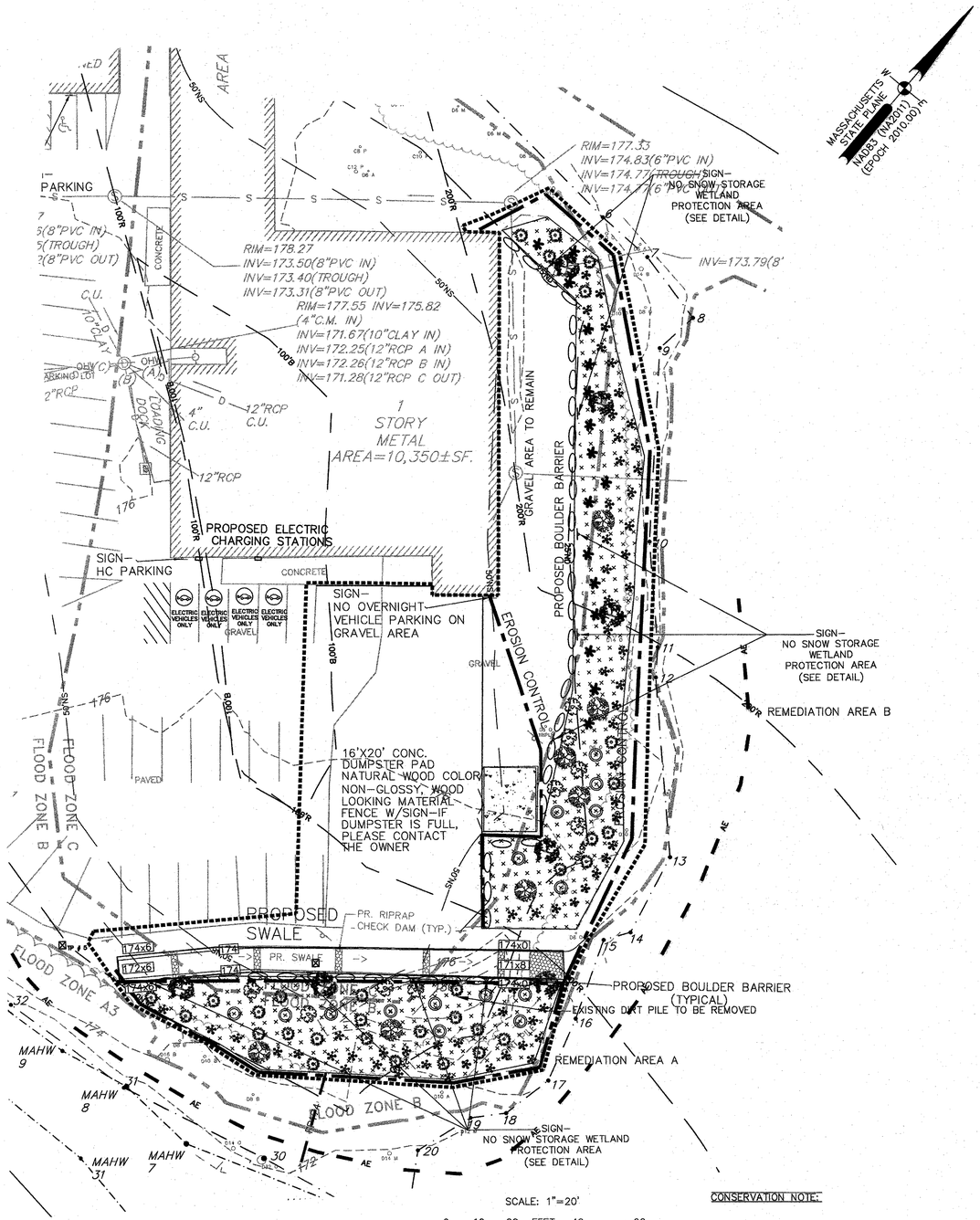
DATE	REVISION DESCRIPTION
10/13/2020	REVISED PARKING CONFIGURATION
12/23/2020	PER TOWN COMMENTS
4/21/21	PER CONVERSATION WITH CLIENT
	AND CONSULTANT
6/22/21	PER PLANNING DECISION
7/30/21	PER TOWN COMMENTS

0 15 30 FEET 60 90
0 2.5 5 10 METERS 20

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST. PH. (508) 528–3221
FRANKLIN, MA 02038 FX. (508) 528–7921
www.gandhengineering.com

SHEET 11 OF 14

JOB NO. F3519

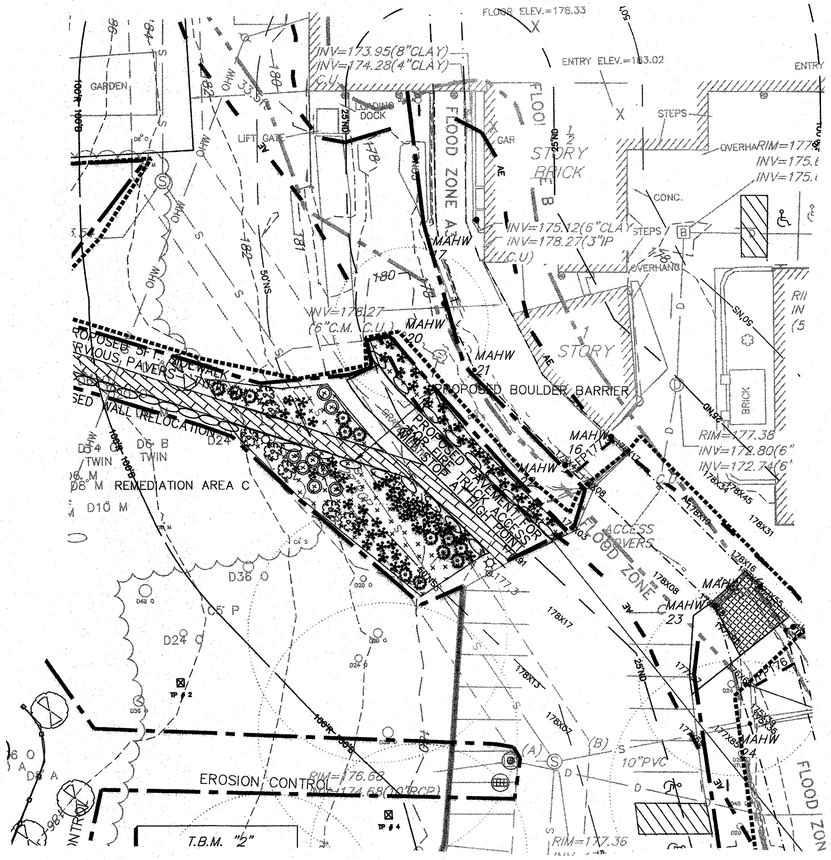


CONSERVATION NOTE:

A CONSERVATION PLAQUE TO BE PLACED AT THE REMEDIATION AREAS ACCORDING TO THE MEDWAY CONSERVATION COMMISSION DECISION.

REMEDIATION LEGEND

SYMBOL	NAME	SIZE	QUANTITY
	RIVER BIRCH BETULA NIGRA	4' MIN. 2.5" CAL.	7
	MOUNTAIN PEPPERBUSH CLETHRA ACUMINATA	3 GAL.	43
	WITCHHAZEL HAMAMELIS VIRGINANA	5 GAL.	16
	WINTERBERRY ILEX VERTICILLATA	3 GAL.	23
	JUNIPER PLUMROSA COMPACTA	3 GAL.	16
	CINNAMON FERN OSMUNDA CINNAMOMEA	2 GAL.	113
	RED MAPLE ACER RUBRUM	4' MIN. 2.5" CAL.	7



REMEDIATION NOTE:

ALL REMEDIATION AREAS;

1. RAKE TO LOOSEN ALL HARD PACKED SOIL
2. ADD 6" MINIMUM TOPSOIL
3. ADD 12LBS. CONSERAVTION MIX
4. ADD 50LBS. OF RYE GRASS
5. ALL DISTURBED AREAS TO BE MULCHED WITH STRAW UNTIL NEWLY PLANTED VEGETATION IS ESTABLISHED.

COMMONWEALTH OF MASSACHUSETTS
ELIZABETHA MAININI-SANCHIONI
No. 48096
REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

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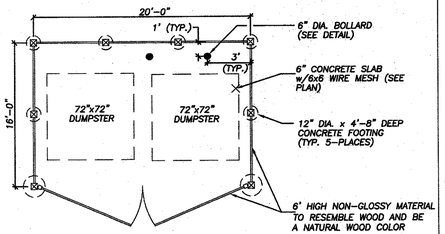
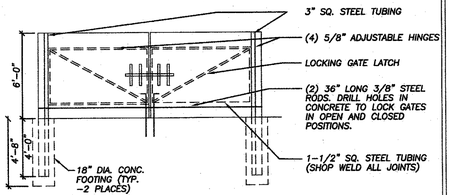
SHEET 12 OF 14

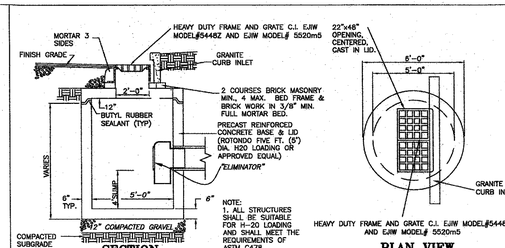
JOB NO. F3519



DUMPSTER ENCLOSURE

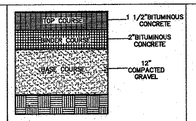
NOT TO SCALE



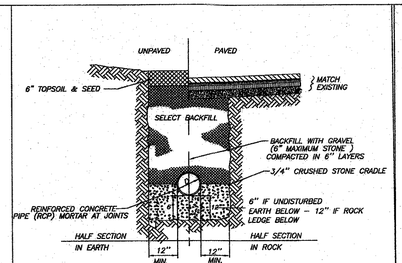


TYP. DOUBLE GRATE CATCH BASIN DETAIL

N.T.S

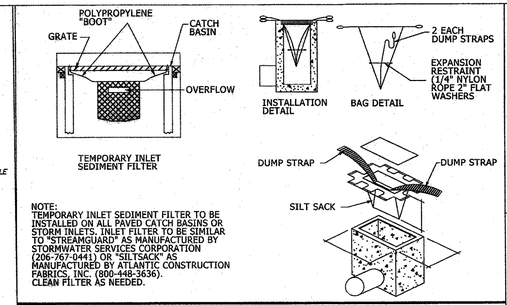


TYPICAL PAVEMENT SECTION
NOT TO SCALE



TYPICAL TRENCH SECTION FOR REINFORCED CONCRETE PIPE

NOT TO SCALE

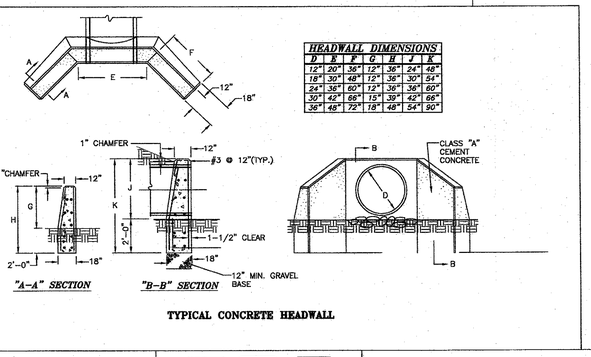


NOTE:
TEMPORARY INLET SEDIMENT FILTER TO BE INSTALLED ON ALL PAVED CATCH BASINS OR STORM INLETS. INLET FILTER TO BE SIMILAR TO "STREAMGUARD" AS MANUFACTURED BY STORMWATER SERVICES CORPORATION (206-767-0441) OR "SILTSACK" AS MANUFACTURED BY ATLANTIC CONSTRUCTION FABRICS, INC. (800-448-3636). CLEAN FILTER AS NEEDED.

SILT SACK DETAIL

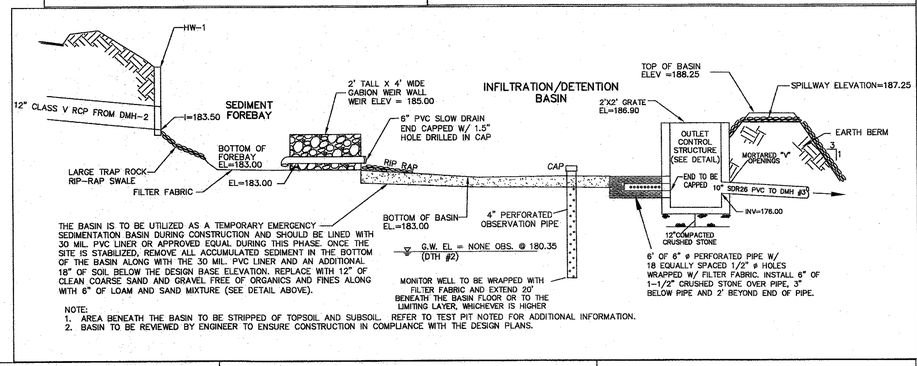
NO SCALE

D-SESC- silt sack



HEADWALL DIMENSIONS						
D	E	F	G	H	J	K
12"	20"	36"	12"	36"	24"	48"
18"	30"	48"	12"	36"	30"	54"
24"	36"	60"	12"	36"	36"	60"
30"	42"	66"	15"	39"	42"	66"
36"	48"	72"	18"	48"	54"	90"

TYPICAL CONCRETE HEADWALL



THE BASIN IS TO BE UTILIZED AS A TEMPORARY EMERGENCY SEDIMENTATION BASIN DURING CONSTRUCTION AND SHOULD BE LINED WITH 30 MIL PVC LINER OR APPROVED EQUAL DURING THIS PHASE. ONCE THE SITE IS STABILIZED, REMOVE ALL ACCUMULATED SEDIMENT IN THE BOTTOM OF THE BASIN ALONG WITH THE 30 MIL PVC LINER AND AN ADDITIONAL 18" OF SOIL BELOW THE DESIGN BASE ELEVATION. REPLACE WITH 12" OF CLEAN COARSE SAND AND GRAVEL FREE OF ORGANICS AND FINES ALONG WITH 6" OF LOAM AND SAND MIXTURE (SEE DETAIL ABOVE).

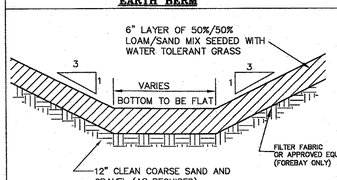
NOTE:
1. AREA BENEATH THE BASIN TO BE STRIPPED OF TOPSOIL AND SUBSOIL. REFER TO TEST PIT NOTED FOR ADDITIONAL INFORMATION.
2. BASIN TO BE REVIEWED BY ENGINEER TO ENSURE CONSTRUCTION IN COMPLIANCE WITH THE DESIGN PLANS.

FENCE DETAIL

N.T.S.

NOTES:
1. ALL WORK TO BE STAKED AND INSPECTED BY THE DESIGN ENGINEER.
2. AREA UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
3. COMPACTED LOW PERMEABILITY FILL MATERIAL SHALL BE WELL GRADED, SILTY, GRAVELY SAND AND SHALL BE FREE OF STONES GREATER THAN 6" IN DIAMETER, ORGANIC MATTER, CONSTRUCTION DEBRIS, SNOW OR FROZEN SOIL. MATERIALS SHALL BE PLACED IN LAYERS NOT EXCEEDING 8" IN THICKNESS, AND SHALL BE COMPACTED.
4. S.C.S. APPROVED SEED MIX TO BE SPREAD AS SOON AS IS PRACTICAL TO MINIMIZE EROSION.

EARTH BERM



CROSS SECTION SEDIMENT FOREBAY & INFILTRATION POND BOTTOM

NOT TO SCALE

SIGNS DETAIL

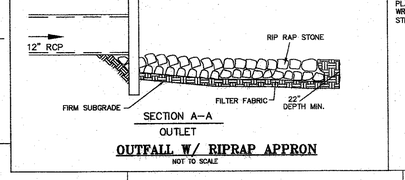
NOT TO SCALE

HANDICAP PARKING SIGN DETAIL

STOP SIGN DETAIL

STONE CHECK DAM

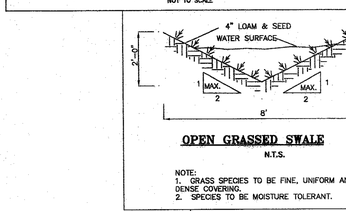
NOT TO SCALE



8" GRAVEL LAYER MEETING THE MASS HIGHWAY SPEC. M.1.03.0 TYPE B FOR GRAVEL.

10 FOOT WIDE GRAVEL ACCESS ROAD

NOT TO SCALE

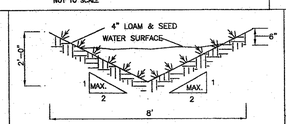


OUTFALL W/ RIPRAP APPRON

NOT TO SCALE

NOTE:
ACTUAL STRUCTURE DIMENSIONS AND STEEL REINFORCEMENT BY STRUCTURE MANUFACTURER.

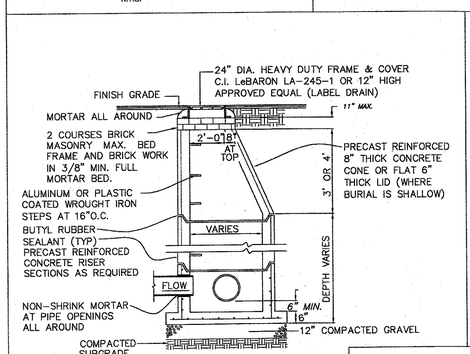
OUTLET CONTROL STRUCTURE



OPEN GRASSED SWALE

N.T.S.

NOTE:
1. GRASS SPECIES TO BE FINE, UNIFORM AND DENSE COVERING.
2. SPECIES TO BE MOISTURE TOLERANT.



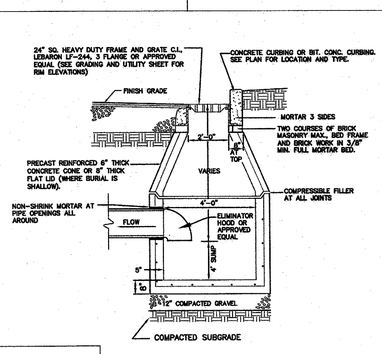
TYP. PRECAST CONCRETE MANHOLE STORM DRAIN

N.T.S.

NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. C478.

ALTERNATE TOP SLAB

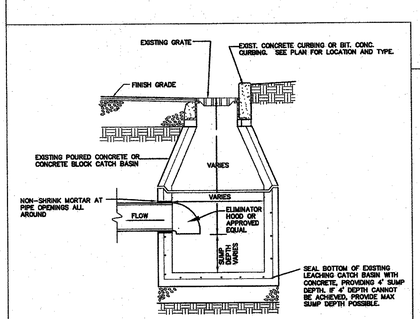
(STEEL REINFORCED FOR H-20 LOADING)



TYP. PRECAST CONCRETE CATCH BASIN DETAIL

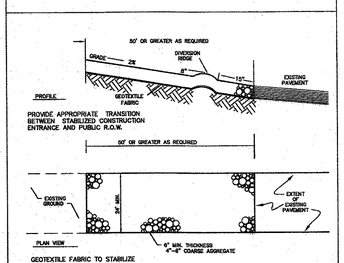
NOT TO SCALE

NOTE:
ALL STRUCTURES SHALL BE SUITABLE FOR H-20 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.



EXISTING CATCH BASIN SUMP IMPROVEMENT DETAIL

NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

SPECIMEN DECIDUOUS TREE PLANTING DETAIL

COMMONWEALTH OF MASSACHUSETTS
ELIZABETH A. MAININI-SANCHIONI
No. 48095
REGISTERED PROFESSIONAL ENGINEER
10-6-21

F3519

APPROVED DATE: 6-22-2021

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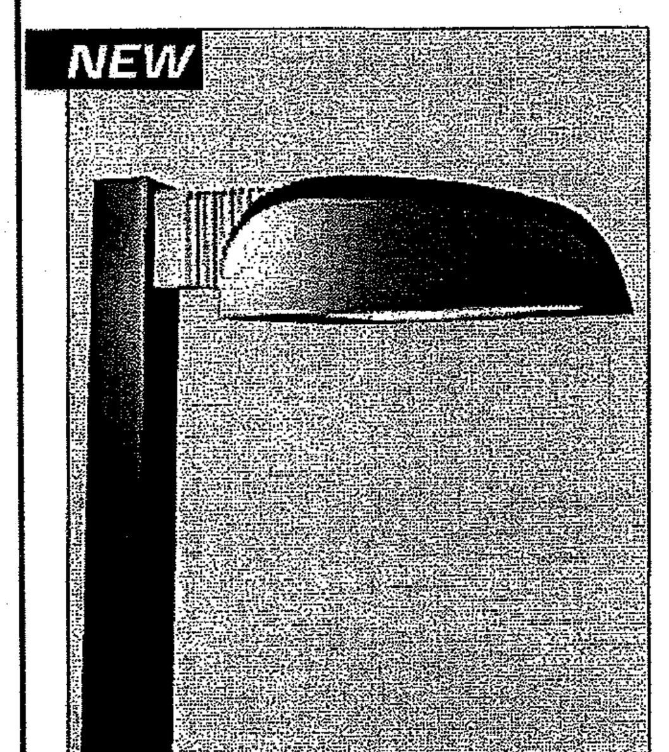
SHEET 13 OF 14

JOB NO. F3519

Aeris™



Intended Use

For streets, walkways, parking lots and surrounding areas.

Features

Housing – Die-cast single piece aluminum with nominal 1/8" wall thickness. Integral arm provides easy installation to pole or wall. Housing completely sealed against moisture or environmental contaminants.

Door Assembly – Die-cast door frame, impact-resistant, tempered, glass lens, 3/16" thick, fully sealed with one-piece tubular silicone gasket. Tool-less entry and closure via spring loaded die-cast latches.

Optics – Anodized segmented reflectors for superior uniformity and control. Reflectors attach with tool-less fasteners and are rotatable and interchangeable.

Installation – Heavy duty easy mount block attaches to pole or wall to provide ease of installation as well as ensured alignment and leveling.

Electrical – 150W and below utilize a high reactance, high power factor. 175W and above use a constant-wattage autotransformer ballast. 42W uses an electronic high frequency ballast. Ballasts mounted on removable power tray with tool-less latch and have positive locking disconnect plugs. Ballasts are copper wound and 100% factory tested.

Finish – Standard finish is dark bronze (DDB) polyester powder finish. Other architectural colors available.

Socket – Porcelain, medium-base socket for AS1, mogul-base socket for AS2, with copper alloy nickel-plated screw shell and center contact. UL listed.

Listings – UL Listed (standard). CSA Certified or NOM certified (see options). U.S. and Canada patents pending. UL listed for wet locations. IP65 certified. Meets IESNA full cutoff criteria.

For product details and performance data, see the OUTDOOR binder or the on-line catalog at *www.lithonia.com.*

Ordering Information

Example: **AS1 150S SR2 120 SF LPI**

Designation

High Pressure Sodium
- AS1 35S
- AS1 50S
- AS1 70S
- AS1 100S
- AS1 150S
- AS2 200S
- AS2 250S
- AS2 400S

Metal Halide
- AS1 50M
- AS1 70M
- AS1 100M
- AS1 150M
- AS1 175M
- AS2 200M[1]
- AS2 250M[2]
- AS2 320M[1]
- AS2 350M[1]
- AS2 400M[2]

Compact Fluorescent
- AS1 42TRT (120, 277, 347V only)

Distribution
- SR2 Segmented Type II roadway
- SR3 Segmented Type III asymmetric
- SR4SC Segmented Type IV forward throw, sharp cutoff
- SR4W Segmented Type IV wide, forward throw (size 2 only)
- SR5S Segmented Type V square

Voltage

120, 208[3], 240[3], 277, 347, 480[3], TB[4]

Mounting[5]

Included
- SPA Square pole mounting block
- RPA Round pole mouning block
- WBA wall bracket (up or down)

Shipped separately
- ASKMA Mast arm adapter

Additional mounting and accessories available, consult factory

Options/Accessories

Installed
- SF Single fuse, 120, 277, 347V (n/a TB)[6]
- DF Double fuse, 208, 240, 480V (n/a TB)[6]
- PER NEMA twist-lock receptacle only (no photocontrol)
- QRS Quartz restrike system (100W max. AS1, 250W max. AS2, lamp not included)[8]
- CR Corrosion-resistant finish
- HS House-side shield
- EC Emergency circuit[7]
- TP Tamperproof
- SCWA Super CWA Pulse Start Ballast (not available with HPS or TRT)
- LPI Lamp included (standard)
- L/LP Less lamp
- CSA CSA Certified
- NOM[7] NOM Certified

For optional architectural colors, see page 349.

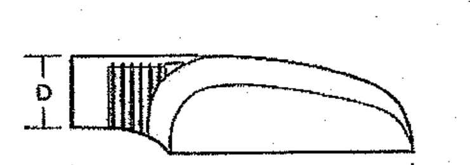
Shipped separately
- PE1 NEMA twist-lock PE (120, 208, 240V)
- PE3 NEMA twist-lock PE (347V)
- PE4 NEMA twist-lock PE (480V)
- PE7 NEMA twist-lock PE (277V)
- SC Shorting cap
- AS1VG Vandal guard
- AS2VG Vandal guard

For tenon slipfitters, see page 350.

NOTES:
1. Must be ordered with SCWA option.
2. May be ordered with SCWA option.
3. Consult factory for availability in Canada.
4. Optional multi-tap ballast (120, 208, 240, 277V; 120, 277, 347V in Canada).
5. Mounting block standard.
6. SF, DF or QRS options cannot be ordered together.
7. Consult factory for availability.
8. Includes arm.

Drilling Pattern
(see pole ordering pg. 358)

DM19-AS	1 at 90°
DM28-AS	2 at 180°
DM29-AS	2 at 90°
DM39-AS	3 at 90°
DM49-AS	4 at 90°
DM32-AS	3 at 120° (Round poles only)



Dimensions are shown in inches (centimeters) unless otherwise noted.

	AS1	AS2
Length	21.38"	28"
Width	12.5"	16.26"
Height	6.28"	8.25"

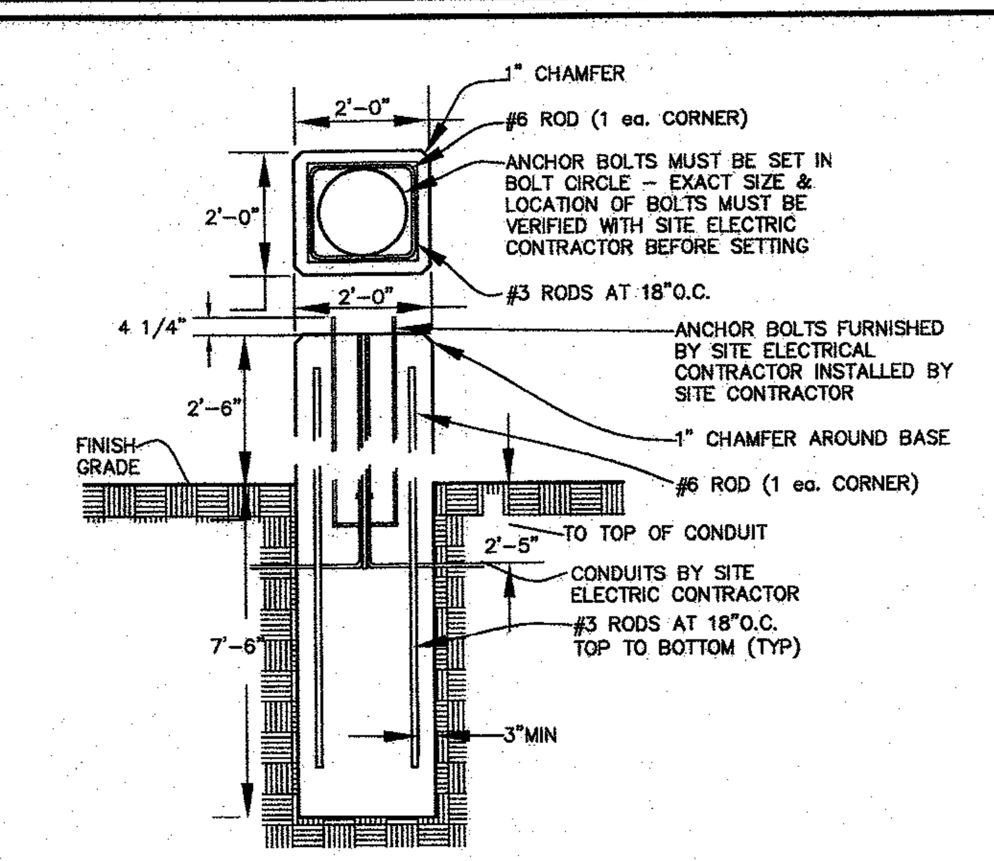
Dark Sky

LITHONIA LIGHTING

MODEL NO. AS1-150S-SR3-HS

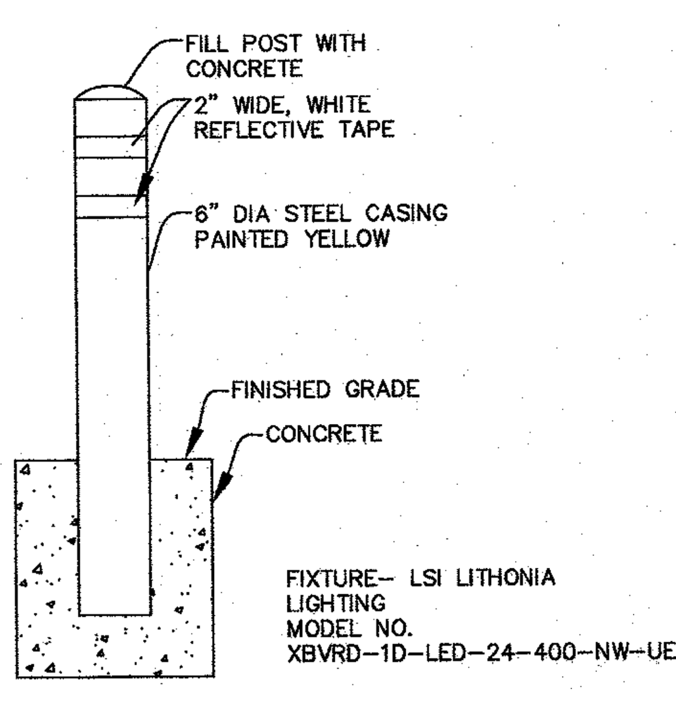
PARKING LIGHTING DETAIL AND SPECIFICATIONS

NOT TO SCALE
PROPOSED HEIGHT OF POLES =12FT.



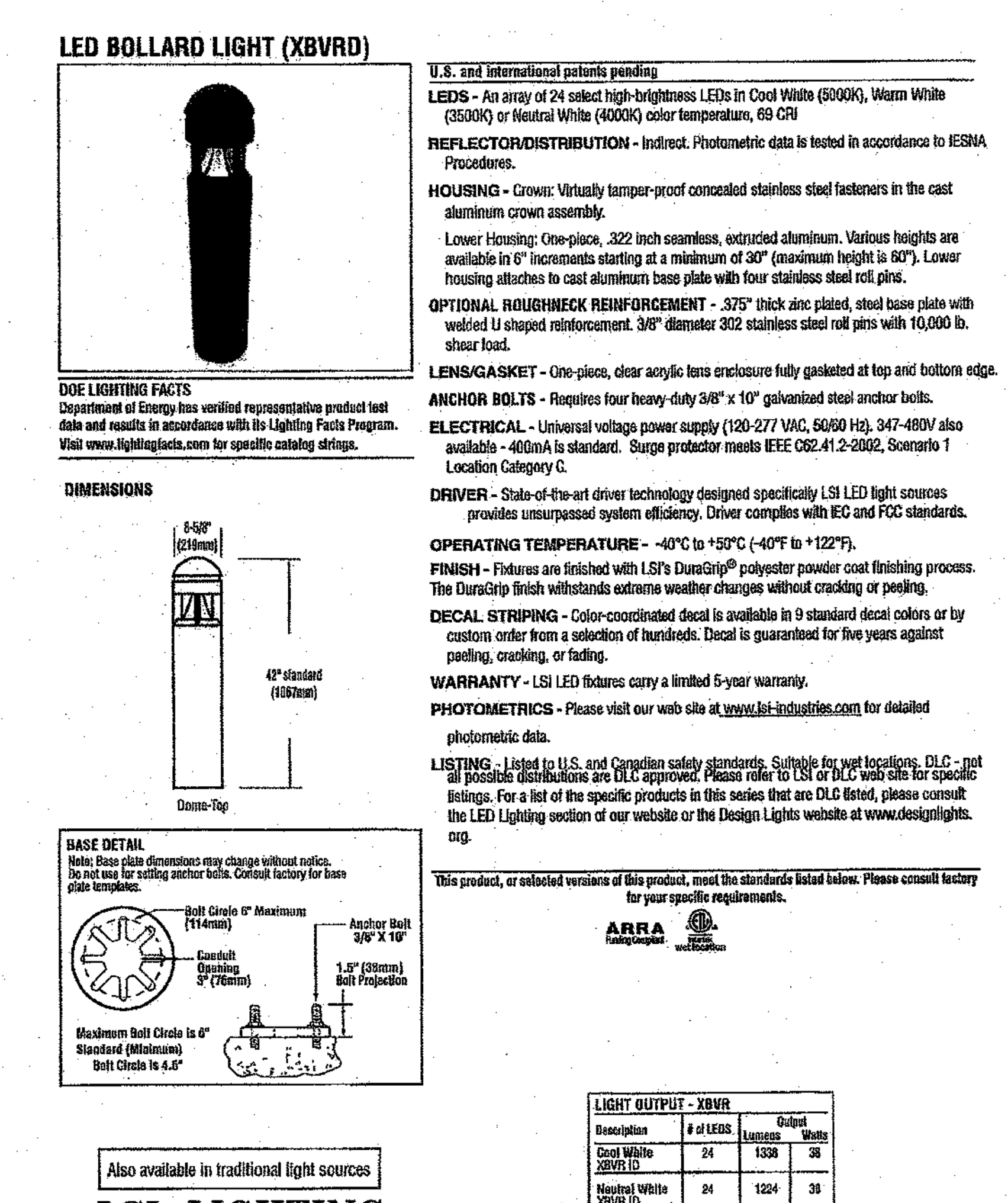
TYPICAL LIGHT POLE BASE

NOT TO SCALE
LIGHT POLES BY ELECTRIC CONTRACTOR



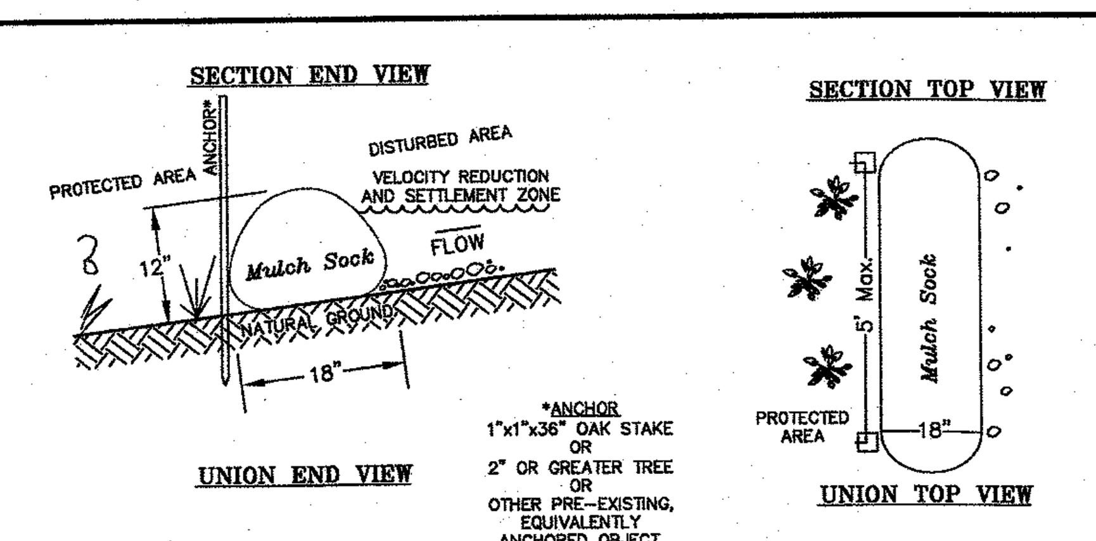
BOLLARD DETAIL

NOT TO SCALE



LSI LIGHTING

WALKWAY LIGHTING DETAIL AND SPECIFICATIONS



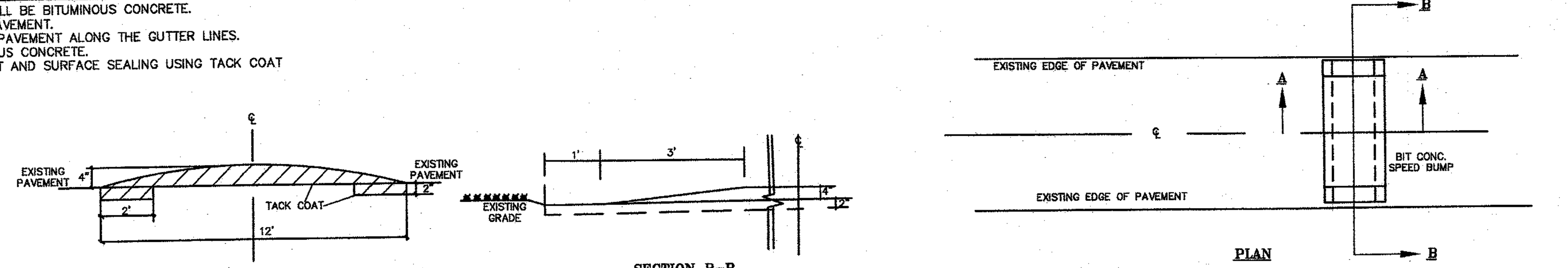
1. WHERE SECTION ENDS MEET, THERE SHALL BE AN OVERLAP OF 6" OR GREATER. BOTH SIDES SHALL BE ANCHORED (OAK STAKES, TREES, ETC.) TO STABILIZE THE UNION.
2. NO ADDITIONAL ANCHORS ARE REQUIRED ON SLOPES LESS THAT 2:1.
3. ADDITIONAL ANCHORS ARE REQUIRED AT 5' INTERVALS (MAX.) ON THE DOWNSLOPE OR PROTECTED SIDE ON SLOPES GREATER THAN 2:1 TO PREVENT MOVEMENT.

Mulch Sock COMPONENTS:
- OUTSIDE CASING: 100% organic hessian.
- FILLER INGREDIENT: *FiberRoot Mulch*
  A blend of coarse and fine compost and shredded wood.
- Particle sizes: 100% passing a 3" screen; 90–100% passing a 1" screen; 70–100% passing a 0.75" screen; 30–75% passing a 0.25" screen.
  Weight: Approx. 850 lbs./cu.yd. (Ave. 30 lbs./l.f.)

EROSION CONTROL BARRIER

NOT TO SCALE

1. SPEED BUMPS SHALL BE BITUMINOUS CONCRETE.
2. CLEAN EXISTING PAVEMENT.
3. SCARIFY EXISTING PAVEMENT ALONG THE GUTTER LINES.
4. REPLACE BITUMINOUS CONCRETE.
5. COMPACT ANDJOINT AND SURFACE SEALING USING TACK COAT



SPEED BUMP DETAIL

A. Names of Persons or Entities Responsible for Plan Compliance

John Greene
NRG Concepts, Inc.
165 Main Street
Suite 307
Medway, MA 02053
Tel: 508-367-8745

B. Construction Period Pollution Prevention Measures
1. Inventory materials to be present on site during construction.
2. Train employees and subcontractors in prevention and clean up procedures.
3. All materials stored on site will be stored in their appropriate containers and if possible under a roof or covered.
4. Follow manufacturer's recommendation for disposal of used containers.
5. Store only enough products on site to do the job.
6. On site equipment, fueling and maintenance measures:
   a. Inspect on-site vehicles and equipment daily for leaks.
   b. Conduct all vehicle and equipment maintenance and refueling in front of building, away from storm drains.
   c. Perform major repairs and maintenance off site.
   d. Use drip pans, drip cloths or absorbent pads when replacing spent fuels.
   e. Collect spent fuels and remove from site, per Local and State regulations.
   f. Maintain a clean construction entrance; install a crushed stone apron where truck traffic is frequent to reduce soil compaction constant sweeping is required and limit tracking of sediment into streets, sweeping street when silt is observed on street.
7. A temporary concrete washout station and equipment wash station shall be located on the site. Areas shall be surrounded with a silt fence and or Filter Mitt to contain materials and provide ease of cleanup.
8. Stock pile materials, and maintain Erosion Control around the materials where it can easily be accessed. Maintain easy access to clean up materials to include brooms, mops, rags gloves, goggles, sand, sawdust, plastic and metal trash containers.
9. Clean up spills.
   a. Never hose down "dirty" pavement or impermeable surfaces where fluids have spilled. Use dry cleanup methods (sawdust, cat litter and/or rags and absorbent pads).
   b. Sweep up dry materials immediately. Never wash them away or bury them.
   c. Clean up spills on dirt areas by digging up and properly disposing of contaminated soil in a certified container and notify a certified hauler for removal.
   d. Report significant spills to the Fire Department.
10. It is the responsibility of the site superintendent or employees designated by the Applicant to inspect erosion control and repair as needed, also to inspect all on site vehicles for leaks and check all containers on site that may contain hazardous materials daily.

C. Site Development Plans
1. See Site Plan set "Site Plan Medway Mill 163-165 Main Street Medway Massachusetts" dated February 14, 2020, Revised June 22, 2021 prepared by Guerriere & Halnon, Inc.

D. Construction Erosion and Sedimentation Control Plan;
1. See Site Plan set "Site Plan Medway Mill 163-165 Main Street Medway Massachusetts" dated February 14, 2020, Revised June 22, 2021 prepared by Guerriere & Halnon, Inc.

E. Plans
1. Construction Sequencing Plan
   a. A NPDES NOI shall be filed with the EPA.
   b. Record Order of Conditions - The site superintendent shall be aware of all the Conditions contained within the Order including inspection schedules.
   c. Install DEP File # Sign.
   d. Prior to any work on the site including tree/brush clearing, the approved limit of clearing as well as the location of the proposed erosion control devices (such as silt fence/straw bales, etc.) must be staked on the ground under the direction of a Massachusetts registered Professional Land Surveyor.
   e. Install erosion control barrier at locations depicted on the plans.
   f. Erosion control to be inspected by either the design engineer (or agent) or an erosion control monitor appointed by the Town of Medway.
   g. Extra erosion control devices shall be stored on the site to be used in case of an emergency (large storm).
   h. Perform tree/brush removal.
   i. Strip off top and subsoil. Stockpile material to be reused away from any drainage inlet or protected wetland areas, remove excess material from the site. Install and maintain erosion control barrier around stockpile.
   j. Rough grade site, maintaining temporary low areas/sediment traps for sediment accumulation and away from the wetlands and prevent sedimentation from migrating from the site.
   k. Construct forebay/basin, and outlets/outfalls. Install pipes, manholes and catch basins. Stabilize side slopes with loam, seed and mulch.
   l. Install underground utilities; protect all open drainage structures with erosion/siltation control devices, and rope off any areas susceptible to heavy vehicle damage.
   m. Prepare compacted pavement base.
   n. Loam and seed (mulch as required) disturbed areas of site other than immediately adjacent to work area.
   o. Upon all catchment structures and mitigation features becoming operational, install pavement up to binder finish grade. Straw bales backed by crushed stone to be provided on down gradient side of catch basins to direct water to temporary basin.
   p. Install curbing and catch basin curb inlets.
   q. Install final pavement wearing course.
   r. Construct pervious sidewalk.
   s. Finish grade - loam and seed (mulch as required adjacent to parking lot.
   t. Maintain all erosion control devices until site is stabilized and final inspections are performed.

The Contractor shall be responsible to schedule any required inspections of his/her work.

2. Construction Waste Management Plan
   a. Dumpster for trash and bulk waste collection shall be provided separately for construction.
   b. Recycle materials whenever possible (paper, plaster cardboard, metal cans). Separate containers for material are recommended.
   c. Segregate and provide containers for disposal options for waste.
   d. Do not bury waste and debris on site.
   e. Certified haulers will be hired to remove the dumpster container waste as needed. Recycling products will also be removed off site weekly.
   f. The sewer system is only for disposal of human waste, and substances permitted for disposal by the Charles River Pollution Control District (CRPCD).

F. Operation and Maintenance of Erosion and Sedimentation Controls

The operation and maintenance of sedimentation control shall be the responsibility of the contractor. The inspection and maintenance of the storm water component shall be performed as noted below. The contractor shall, at all times have erosion control in place. The contractor, based on future weather reports shall prepare and inspect all erosion control devices; cleaning, repairing and upgrading is a priority so that the devices perform as per design. Inspect the site during rain events. **Don't stay away from the site.** At a minimum, there should be inspection to assure the devices are not clogged or plugged, or that devices have not been destroyed or damaged during the rain event. After a storm event inspection is required to clean and repair any damage components. Immediate repair is required.

G. Inspection and Maintenance Schedules
1. Inspection must be conducted at least once every 7 days and within 24 hours prior to and after the end of a storm event 0.5 inches or greater.
2. Inspection frequency can be reduced to once a month if:
   a. The site is temporarily stabilized.
   b. Runoff is unlikely due to winter conditions, when site is covered with snow or ice.
3. Inspections must be conducted by qualified personnel, "qualified personnel" means a person knowledgeable in the principles and practice of erosion and sediment controls and who possess the skills to assess the conditions and take measures to maintain and ensure proper operation, also to conclude if the erosion control methods selected are effective.
4. For each inspection, the inspection report must include:
   a. The inspection date.
   b. Names, titles of personnel making the inspection.
   c. Weather information for the period since the last inspection.
   d. Weather information at the time of the inspection.
   e. Locations of discharges of sediment from the site, if any.
   f. Locations of BMP's that need to be maintained.
   g. Locations where additional BMP's may be required.
   h. Corrective action required or any changes to the SWPPP that may be necessary.
5. Qualified personnel shall inspect the following in-place work;

Inspection Schedule:

Erosion Control	Weekly
Catch Basins	Weekly
Temporary Sedimentation Traps/Basins	Weekly
Pavement Sweeping	Weekly

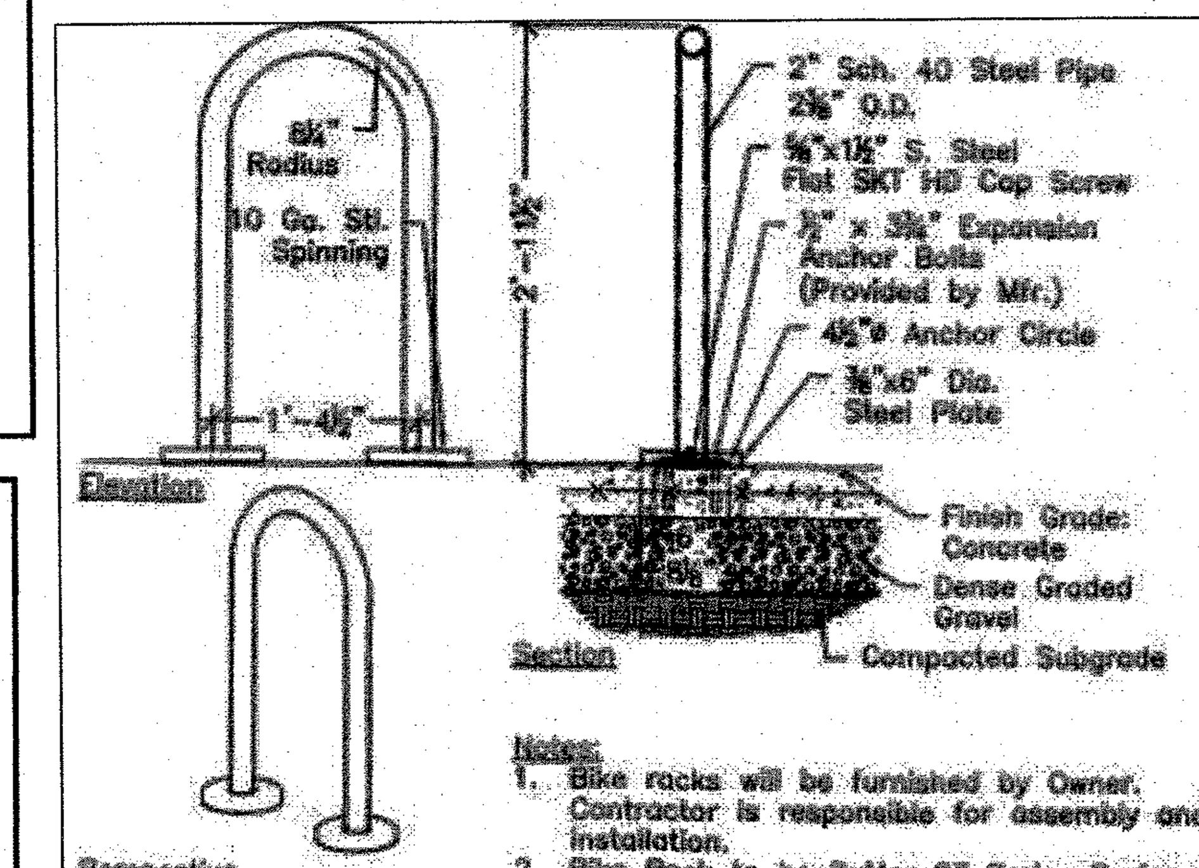
Please Note: Special inspections shall also be made after a significant rainfall event.

Maintenance Schedule

Erosion Control Devices Failure	Immediately
Temporary Sedimentation Traps/Basins	As needed
Pavement Sweeping	14 days minimum and prior to any significant rain event.

Please Note: Special maintenance shall also be made after a significant rainfall event.

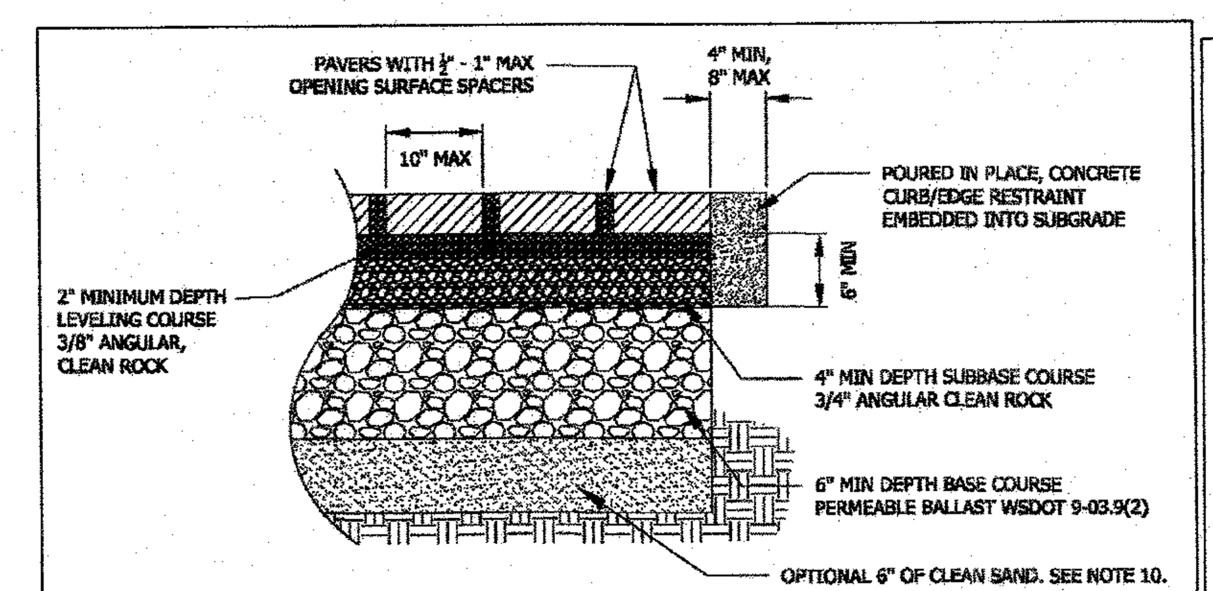
H. Inspection and Maintenance Log Form.
1. See Construction Phase Inspection and Maintenance Form attached



Notes:
1. Bike racks will be furnished by Owner. Contractor is responsible for assembly and installation.
2. Bike Rack to be DuMor 83 Series Surface Mount Bike Rack.
3. Installation to be completed in accordance with Manufacturer's Specifications.
4. Contractor to touch up all damage to finishes with manufacturer's provided touch up kit.

Surface Mount Bike Rack

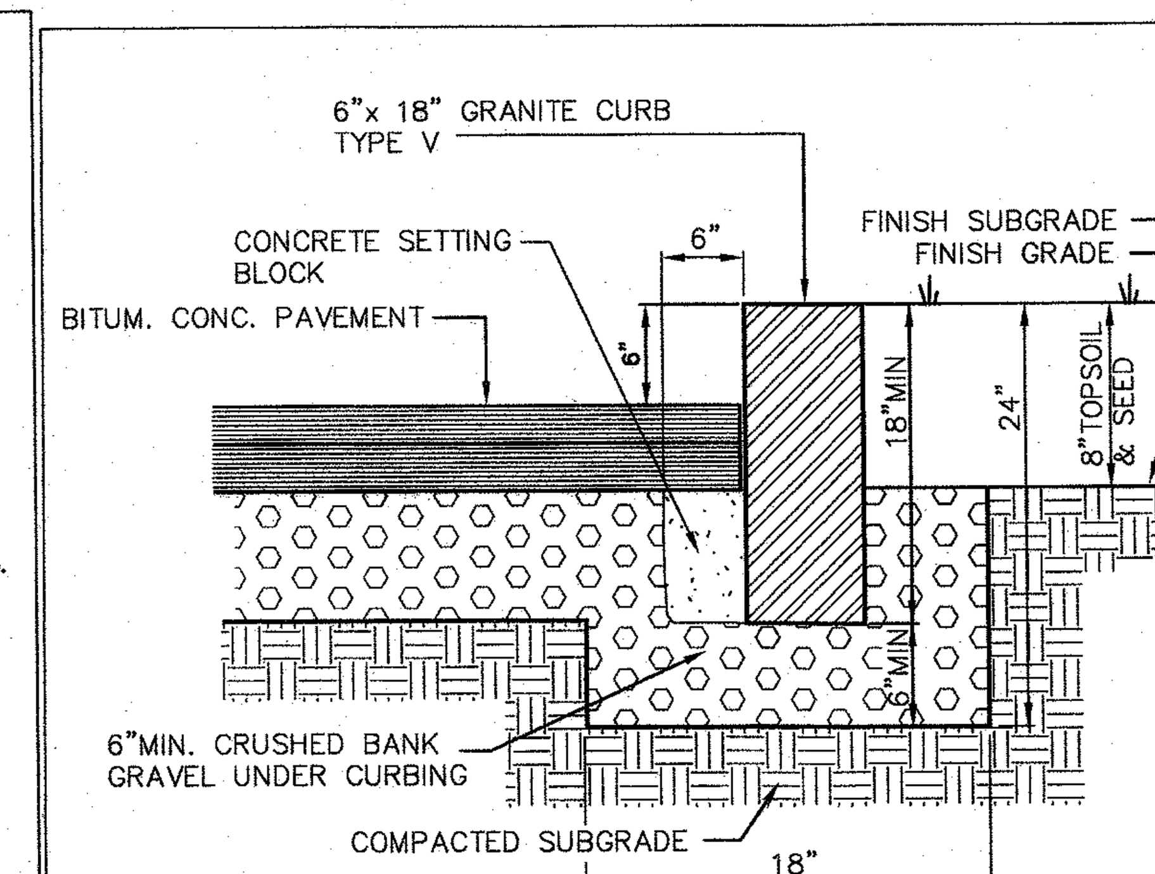
NOTE: BIKE RACK TO PROVIDE SPACE FOR 4 BIKES



PERMEABLE PAVER SECTION

NOT TO SCALE

NOTES:
1. SEE DRIVEWAY STANDARD PLANS CK-R.21 FOR JOINTING AND LAYOUT.
2. PERMEABLE PAVERS SHALL CONFORM TO ALL REQUIREMENTS BELOW:
   A. 3-1/8" THICK PAVERS FOR VEHICULAR APPLICATIONS
   B. 2-3/8" THICK PAVERS FOR PEDESTRIAN AREAS
   C. SURFACE AREA AND ASPECT RATIO REQUIREMENTS OF ASTM C936
3. AGGREGATE FOR BASE COURSE SHALL BE CLEAN, ANGULAR ROCK 1-1/4", CONFORMING TO PERMEABLE BALLAST WSDOT 9-03.9(2).
4. PERMEABLE PAVERS TO BE INSTALLED AFTER CONSTRUCTION OF HOUSE. AFTER INSTALLATION, PROTECT PERMEABLE PAVEMENT FROM LANDSCAPE AND OTHER CONSTRUCTION ACTIVITIES.
5. SUBGRADE IS TO BE COMPACTED TO THE MINIMUM NECESSARY FOR STRUCTURAL STABILITY, USING DUAL WHEEL SMALL MECHANICAL ROLLERS IN STATIC MODE. HEAVY EQUIPMENT OR TRUCK TRAFFIC IS NOT ALLOWED ON SUBGRADE.
6. TO PREVENT COMPACTION, INSTALL THE AGGREGATE BASE IN THE FOLLOWING MANNER (BACK-DUMPING):
   -DUMP AGGREGATE BASE ONTO SUBGRADE FROM THE EDGE OF THE INSTALLATION, THEN PUSH IT OUT ONTO THE SUBGRADE.
   -DUMP SUBSEQUENT LOADS FROM ON TOP OF THE AGGREGATE BASE AS THE INSTALLATION PROGRESSES.
7. PERVIOUS CONCRETE SIDEWALK SHALL BE TESTED PRIOR TO ACCEPTANCE. ONE TEST PER 2500 SF AREA MINIMUM. TESTING SHALL MEET ASTM C1701 AND SHALL MEET A MINIMUM OF 100 IN/HR.
8. IMPERVIOUS CHECK DAMS IN THE BASE COURSE ARE REQUIRED FOR SLOPES BETWEEN 5% AND 10%. SLOPE SHALL NOT EXCEED 10%.
9. NO HORIZONTAL GEOTEXTILE FABRIC UNLESS RECOMMENDED BY GEOTECHNICAL PROFESSIONAL DUE TO POOR SOIL STRENGTH. VERTICAL SEPARATION WITH GEOTECHNICAL FABRIC MAY BE REQUIRED PER ENGINEER, DEPENDENT ON ADJACENT STRUCTURES.



TYP. VERTICAL GRANITE CURB

N.T.S.

NOTE: INSTALL WITHIN ALL PUBLIC WAYS, CORNERS, AND RADIUS SECTIONS

F3519

COMMONWEALTH OF MASSACHUSETTS — ELIZABETH A. MANNI-SANCHIONI — No. 48096 — REGISTERED PROFESSIONAL ENGINEER
10-6-21

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. BEFORE DIGGING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE[7233].

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

OWNER

165 MAIN STREET REALTY TRUST
JOHN J. GREENE TRUSTEE
165 MAIN STREET
SUITE 307
MEDWAY, MA

DEED BOOK 24499 PAGE 10
A.M. 48 LOT 092

APPLICANT

NRG CONCEPTS, INC.
165 MAIN STREET
SUITE 307
MEDWAY, MA. 02053

SITE PLAN MEDWAY MILL 163-165 MAIN STREET MEDWAY MASSACHUSETTS

CONSTRUCTION DETAILS

FEBRUARY 14, 2020

DATE	REVISION DESCRIPTION
10/13/2020	REVISED PARKING CONFIGURATION
12/23/2020	PER TOWN COMMENTS
4/21/21	PER CONVERSATION WITH CLIENT AND CONSULTANT
6/22/21	PER PLANNING DECISION
7/30/21	PER TOWN COMMENTS

0 15 30 FEET 60 90
0 2.5 5 10 METERS 20

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
55 WEST CENTRAL ST. PH. (508) 528-3221
FRANKLIN, MA 02038 FX. (508) 528-7921
www.gandhengineering.com

SHEET 14 OF 14 JOB NO. F3519

S:\C3D\Franklin\F3519\DWG\F3519-SITE-rev 5 parking sketch 4.dwg, 9/28/2021 11:44:51 AM, DAB

MEDWAY MILL BRIDGE WIDENING PROJECT

MEDWAY MILL BRIDGE OVER CHICKEN BROOK

(42.146529, -71.426606)

TOWN OF MEDWAY
NORFOLK COUNTY

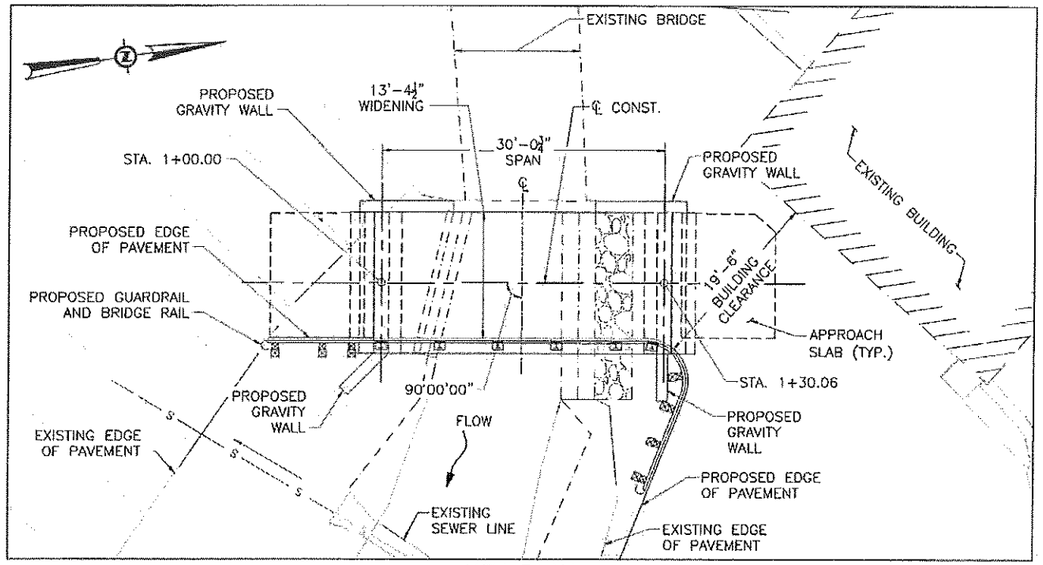
APPROVED DATE: 6-22-2021
MEDWAY PLANNING BOARD
BEING A MAJORITY
ENDORSEMENT DATE 10-12-2021

COLLINS ENGINEERS, P.C.
333 Elm Street, Suite 110
Dedham, MA 02026
Phone: 781-251-0630
Fax: 781-251-0633

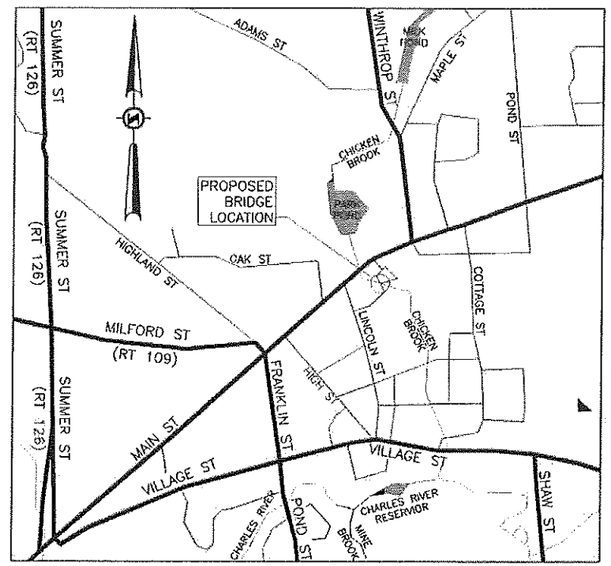
NRG CONCEPTS, INC.
MEDWAY MILL
165 MAIN STREET,
SUITE 307
MEDWAY, MA 02053

INDEX, KEY PLAN, LOCUS MAP, AND GENERAL NOTES

INDEX



KEY PLAN
N.T.S.



LOCUS MAP
N.T.S.

DESIGN CRITERIA:

DESIGN:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, NOVEMBER 2017
	MASSDOT LRFD BRIDGE MANUAL 2013 EDITION
	MASSACHUSETTS STATE BUILDING CODE – 780 CMR
	AMERICAN CONCRETE INSTITUTE (ACI 318-19)
	ASCE/SEI 7-16
LIVE LOAD:	E-ONE (75,000 LBS.) (PER OWNER AND MEDWAY FIRE DEPT.) (AERIAL BODY, CYCLONE II X CHASSIS, HP100 AERIAL LADDER)
DEAD LOAD:	INCLUDES 40.8 PSF WEARING SURFACE
SEISMIC PARAMETERS:	A_S = 0.08 S_{DS} = 0.17 S_{D1} = 0.07 SITE CLASS "C" SEISMIC ZONE 1 SEISMIC DESIGN CATEGORY A
REINFORCING STEEL:	SEE SHEET NO. 2
PRESTRESSED CONCRETE:	SEE SHEET NO. 6
CONCRETE:	SEE SHEET NO. 2

SPECIFICATIONS AND REFERENCES

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES
2021 EDITION

GEOTECHNICAL ENGINEERING ASSESSMENT, GEOINSIGHT, 31 JULY 2020 (GEA)

SCOPE OF WORK:

CONSTRUCTION DRAWINGS FOR A NEW BRIDGE MEASURING APPROXIMATELY 15 FEET WIDE WITH AN APPROXIMATE SPAN OF 30 FEET, THE NEW STRUCTURE WILL ABUT THE EXISTING STRUCTURE.

GENERAL NOTES:

1. EXISTING INFORMATION AND PROPOSED CONSTRUCTION IS BASED ON A LIMITED SITE SURVEY PLAN PROVIDED BY THE OWNER AND LIMITED FIELD MEASUREMENTS AND OBSERVATIONS CONDUCTED BY COLLINS ON JULY 8, 2020. CONTRACTOR MUST CONDUCT AN INDEPENDENT SITE SURVEY TO ESTABLISH VERTICAL AND HORIZONTAL CONTROL AND TO VERIFY EXISTING CONDITIONS. NOTIFY THE OWNER WHERE EXISTING CONDITIONS ARE DIFFERENT FROM THOSE SHOWN.
2. "ENGINEER" AS USED IN THESE DRAWINGS REFERS TO THE OWNER OR THE OWNER'S REPRESENTATIVE.
3. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND IMPLEMENTING THE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION.
4. TEMPORARY BRACING, SHEETING, SHORING, ETC. REQUIRED TO ENSURE THE STRUCTURAL INTEGRITY/STABILITY OF THE EXISTING BUILDINGS, SIDEWALKS, UTILITIES, ETC. DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. IMPLEMENTATION OF JOB SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES (CONTINUED):

6. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DRAWINGS, THE MOST RIGID REQUIREMENTS WILL GOVERN.
7. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING LOCATIONS, IS TO BE REPEATED.
8. THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE OVER SHOP DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
9. INSPECTION, TESTING, CONSTRUCTION, WORKMANSHIP AND MATERIALS, SPECIFICATIONS, SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING CODES AND REFERENCED STANDARDS.
10. COORDINATE ANY CONSTRUCTION SITUATION NOT COVERED BY THESE PLANS, GENERAL NOTES, OR SPECIFICATIONS WITH THE OWNER.
11. THE PROJECT SHALL BE SECURED AT ALL TIMES DURING CONSTRUCTION.
12. CONTRACTOR SHALL CONFINE ALL WORK TO THE LIMITS ESTABLISHED BY THE OWNER.
13. COLLINS ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES, LIABILITY, OR COSTS FROM CHANGES OR ALTERATIONS MADE TO THESE DESIGN DRAWINGS WITHOUT COLLINS WRITTEN PERMISSION.

SCALES:

PLAN SHEETS ARE TO BE PRINTED ON 22"x34" SHEETS AT 100% SCALE. IF HALF SIZES (11"x17") ARE WARRANTED, PRINT PLANS AT 50% SCALE. NOTE: AT 50% SCALE, THE SCALES INDICATED ON EACH SHEET SHALL BE HALVED.

COMMONWEALTH OF MASSACHUSETTS
ANTHONY DANKSEWICZ
STRUCTURAL
No. 40413
REGISTERED PROFESSIONAL ENGINEER
9/24/21

NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY:	RCB
DRAWN BY:	RCB
CHECKED BY:	AD
DATE:	09/24/2021
SHEET NO:	01

NOTES

EXISTING PLAN:
PLAN FOR THE EXISTING BRIDGE ARE AVAILABLE FROM GUERRIERE & HALNON, INC., DATED JUNE 24, 2020.

EXISTING CONDITIONS:
1. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR THE COMPLETION OF WORK BY FIELD MEASUREMENTS AND SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUACY AND ACCURACY THEREOF AND SHALL NOT ORDER ANY MATERIALS OR COMMENCE ANY FABRICATION UNTIL THE REQUIRED MEASUREMENTS HAVE BEEN MADE ON THE ACTUAL STRUCTURE AND THE EXTENT OF PROPOSED WORK HAS BEEN APPROVED BY THE OWNER.
2. WHERE EXISTING CONDITIONS DIFFER FROM THOSE SHOWN, NOTIFY THE OWNER PRIOR TO FABRICATION OF ANY STRUCTURAL COMPONENT.
3. DETAILS DESIGNATED AS "TYPICAL DETAILS", APPLY GENERALLY TO THE DRAWINGS IN AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS.

UTILITIES:
1. ALL UTILITIES LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED AND MARKED PRIOR TO START OF CONSTRUCTION. ANY FOUND UTILITIES NOT STATED ABOVE SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR DIRECTION, PRIOR TO PROCEEDING WITH CONSTRUCTION IN THE AREA OF SAID UTILITIES. THE VERIFIED LOCATIONS OF ALL UTILITIES SHALL BE DEPICTED ON THE WORKING RECORD DRAWINGS AND AS-BUILT DRAWINGS.
3. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND PROTECT FROM DAMAGE.
4. THE CONTRACTOR MUST COORDINATE ALL WORK WITH THE TOWN OF MEDWAY, ALL UTILITY COMPANIES, AND ANY ABUTTERS AS DIRECTED BY THE OWNER.

TRAFFIC:
1. BRIDGE SHALL BE CLOSED TO TRAFFIC DURING CONSTRUCTION.
2. ROAD WILL BE CLOSED TO ALL TRAFFIC DURING PERIOD OF PERFORMANCE. CONTRACTOR TO PROVIDE ROAD CLOSURE SIGNAGE.
3. THE CONTRACTOR SHALL NOT OBSTRUCT THE RIGHT-OF-WAY OF ADJACENT PROPERTIES DURING THE WORK.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):
THE CONTRACTOR SHALL ENSURE THAT BEST MANAGEMENT PRACTICES (BMPS) ARE IN PLACE PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

SEDIMENT CONTROL:
CONTRACTOR SHALL PROVIDE AND MAINTAIN SEDIMENT CONTROL SERVICES IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS THROUGHOUT THE TERM OF THE WORK COVERED BY THIS CONTRACT.

DRAINAGE:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED BRIDGE.
2. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES DURING THE INSTALLATION OF THE STRUCTURES AND DRAINAGE IMPROVEMENTS.

CLEARING AND GRUBBING / DEMOLITION:
1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL STRUCTURES, DEBRIS, VEGETATION, TREES, AND OTHER WASTE MATERIAL AT AN APPROPRIATE OFF-SITE LOCATION. OTHER WASTE MATERIALS INCLUDING ROOTS, CONCRETE, SLURRY, AND DRAINAGE DEBRIS COLLECTED SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL PRESERVE AND PROTECT OR REMOVE (WITH PRIOR WRITTEN APPROVAL OF AFFECTED PROPERTY OWNERS) ALL TREES, SHRUBS, HEDGES, RETAINING WALLS, LANDSCAPING, BUILDINGS, WALKS, ETC., IN OR NEAR CONSTRUCTION AREA.
3. CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS, CONSTRUCTION DEBRIS, WOOD WASTES, CONTAMINATED SOILS, HAZARDOUS MATERIALS, AND OTHER SPECIAL WASTES IN STRICT ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS.
4. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE THOSE PORTIONS OF THE EXISTING THAT ARE TO REMAIN. SITE, BRIDGE AND SUBSTRUCTURE DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND AT THE CONTRACTOR'S EXPENSE.
5. STOCKPILING OF MATERIAL IS NOT ALLOWED INSIDE THE FLOODPLAIN.
6. CONTRACTOR IS ADVISED THAT ADDITIONAL DEMOLITION OF ELEMENTS NOT OTHERWISE UNCOVERED OR OBSERVED MAY BE REQUIRED TO COMPLETE THE WORK.

EXCAVATION:
1. ALL EXCAVATED MATERIAL MUST BE DISPOSED OF AT AN APPROVED DISPOSAL LOCATION, UNLESS OTHERWISE NOTED OR APPROVED FOR USE AS BACKFILL MATERIAL.
2. TRUCKS SHALL BE LOADED IN A MANNER SO AS TO AVOID LOSS OF LOADED MATERIAL OR ANY PORTION THEREOF DURING TRANSPORT IN ACCORDANCE WITH STATE LAW.

FOUNDATIONS:
1. COMPLETE SUBGRADE PREPARATION IN ACCORDANCE WITH THE GEA.
2. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEA; MAXIMUM DESIGN FOUNDATION BEARING PRESSURE IS 2.9 KSF.
3. SUBSTRUCTURE CONCRETE MUST BE PLACED IN THE DRY.
4. OPERABLE EQUIPMENT SHALL NOT OPERATE WITHIN 7 FEET FROM THE BACK FACE OF THE FOOTINGS WITHOUT APPROVAL FROM A GEOTECHNICAL ENGINEER.

CONCRETE:
1. 4000 PSI, 3/4 IN, 585 HP CEMENT CONCRETE SHALL BE USED FOR DECK SLAB. 5000 PSI, 3/4 IN, 685 HP CEMENT CONCRETE SHALL BE USED FOR SAFETY CURBS. 4000 PSI, 3/8 IN, 660 CEMENT CONCRETE SHALL BE USED FOR SUBSTRUCTURE REPAIRS.
2. ALL EXPOSED EDGES SHALL BE CAST WITH 3/4 INCH CHAMFERS. UNLESS OTHERWISE NOTED.

REINFORCEMENT:
REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 31 GRADE 60. UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS, ALL BARS SHALL BE LAPPED AS FOLLOWS:

MODIFICATION CONDITION	#4 BARS	#5 BARS	#6 BARS
1. NONE	16"	19"	23"
2. 12" OF CONCRETE BELOW BAR	20"	25"	30"
3. EPOXY COATED BARS, COVER $<3d_b$, OR CLEAR SPACING $<6d_b$	23"	29"	34"
4. COATED BARS, ALL OTHER CASES	18"	23"	27"
5. CONDITION 2. AND 3.	26"	32"	39"
6. CONDITION 2. AND 4.	24"	30"	36"

ALL OTHER BARS SHALL BE LAPPED AS SHOWN ON THE CONSTRUCTION DRAWINGS.

SUBMITTALS:
1. PROVIDE THE FOLLOWING SUBMITTALS TO THE OWNER A MINIMUM OF 15 DAYS BEFORE ADVANCING THE WORK:
   - A. SEQUENCE OF DEMOLITION, CONSTRUCTION AND PROPOSED EQUIPMENT
   - B. SCHEDULE OF VALUES BROKEN OUT BY PERCENT OF TOTAL FOR:
     1. DEMOLITION
     2. SUBGRADE PREPARATION
     3. CAST-IN-PLACE CONCRETE CONSTRUCTION
     4. SUPERSTRUCTURE CONSTRUCTION
     5. PAVING AND GUARDRAIL INSTALLATION
     6. SITE RESTORATION
   - C. LIST OF SUBCONTRACTORS
   - D. NAME AND LOCATION OF DISPOSAL FACILITIES, AND PROOF OF MATERIALS ACCEPTED AT THE FACILITY(S)
   - E. LIST OF PRODUCERS/SUPPLIERS/FABRICATORS FOR FOR AGGREGATES, SOILS, CONCRETE, PAVEMENT AND GUARDRAIL
   - F. WRITTEN SWPP PLAN
   - G. WRITTEN PLAN FOR PREVENTING DEBRIS AND CONSTRUCTION MATERIALS FROM ENTERING CHICKEN BROOK
   - H. SITE RESTORATION PLAN

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CONTRACTOR RESPONSIBILITIES AND COORDINATION:
1. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
2. THE SPECIFICATIONS AND DESIGN DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS. IN CASES, IF ANY, WHERE REQUIREMENTS INDICATED ON THE DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE OWNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINISHED STATE.
5. TEMPORARY EARTH SUPPORT IS NOT SHOWN ON DESIGN DRAWINGS AND IS REQUIRED FOR THIS PROJECT. CONTRACTOR SHALL DESIGN, DETAIL, AND PROVIDE TEMPORARY EARTH SUPPORTS AS REQUIRED ACCORDING TO HIS MEANS, METHODS, AND TECHNIQUES. CONTRACTOR ACCEPTS FULL RESPONSIBILITY TO COMPLY WITH CURRENT CODES, SPECIFICATIONS, AND STATE AND TOWN REQUIREMENTS.
6. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE DONE TO ADJACENT STRUCTURES AND LANDSCAPING NOT WITHIN THE SCOPE OF THIS PROJECT AS A RESULT OF PERFORMING THIS WORK. CONTRACTOR SHALL PROVIDE COMPLETE REPAIR OR REPLACEMENT OF SUCH DAMAGES TO THE SATISFACTION OF THE OWNER.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THE OTHER APPLICABLE TRADES.
8. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER APPROVED OF BY THE OWNER.
9. THE CONTRACTOR SHALL MAKE NO DEVIATION FROM THE DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE OWNER.
10. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS, DRAWINGS, DETAILS, SPECIFICATIONS, AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. DO NOT ASSUME THAT EITHER THE DRAWINGS OR SPECIFICATIONS TAKE PRECEDENCE.
11. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS, DRAWINGS, SPECIFICATIONS, AND ANY OTHER DOCUMENTS OR EXISTING CONDITIONS, FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE EXISTING AND PROPOSED STRUCTURES UNTIL THE COMPLETION AND ACCEPTANCE OF THE WORK.
13. CONTRACTOR SHALL STOP WORK AND IMMEDIATELY NOTIFY THE OWNER IF CRACKS OR MOVEMENT ARE OBSERVED AT EXISTING STRUCTURES.

SPECIFICATIONS, MATERIALS AND SUPPLIERS:
1. WORK MUST BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
   - 1.1. SECTION 140 AND THE GEA
   - 1.2. SECTION 150 AND THE GEA
   - 1.3. SECTION 170 AND THE GEA
   - 1.4. SECTION 400 AND THE GEA
   - 1.5. SECTION 850
   - 1.6. SECTION 901, 965, 970, 975
2. MATERIALS MUST CONFORM TO DIVISION III SECTION M.
3. MATERIALS AND SUPPLIERS SHALL BE THOSE LISTED ON THE QUALIFIED CONSTRUCTION MATERIALS LIST.

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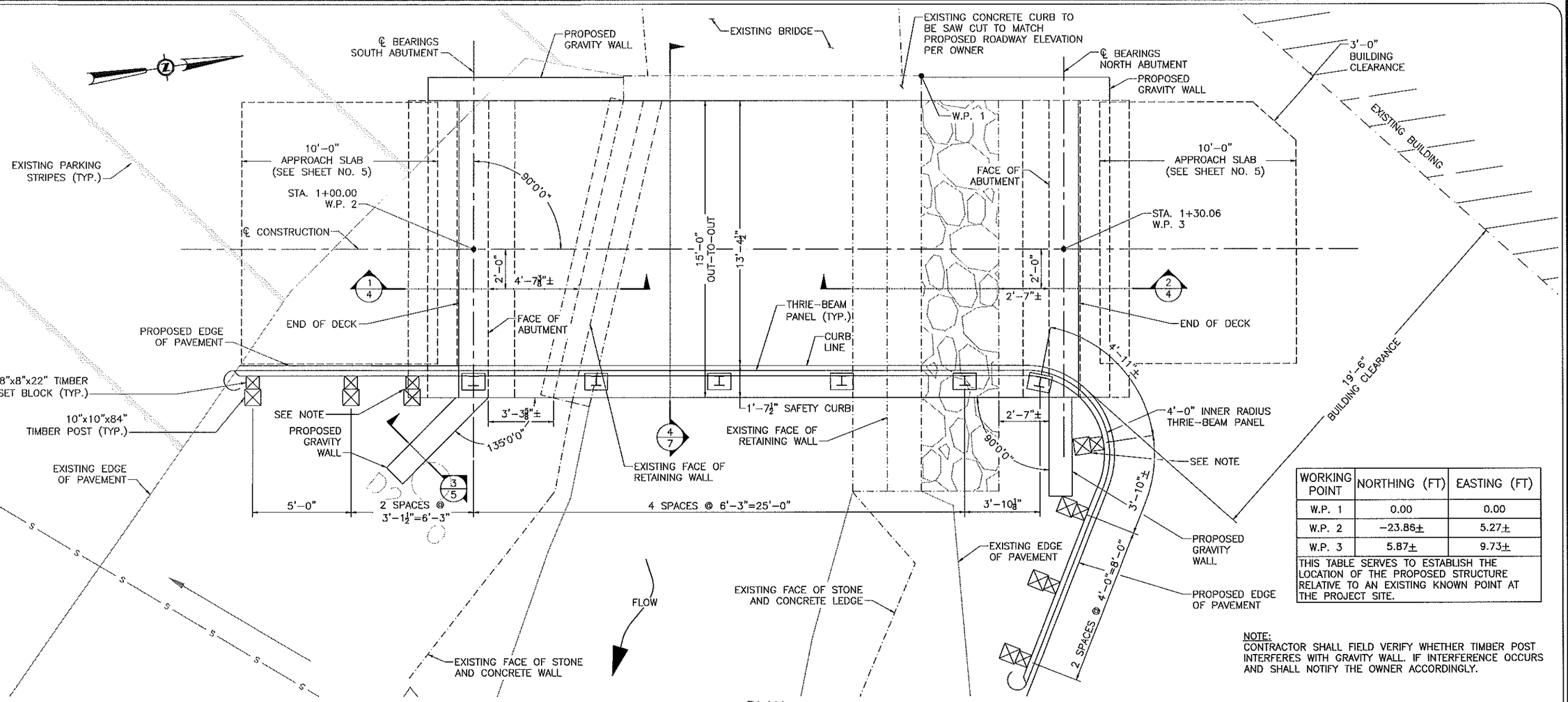
MEDWAY, MA 02053

NOTES

NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: AD
DATE: 09/24/2021
SHEET NO: 02

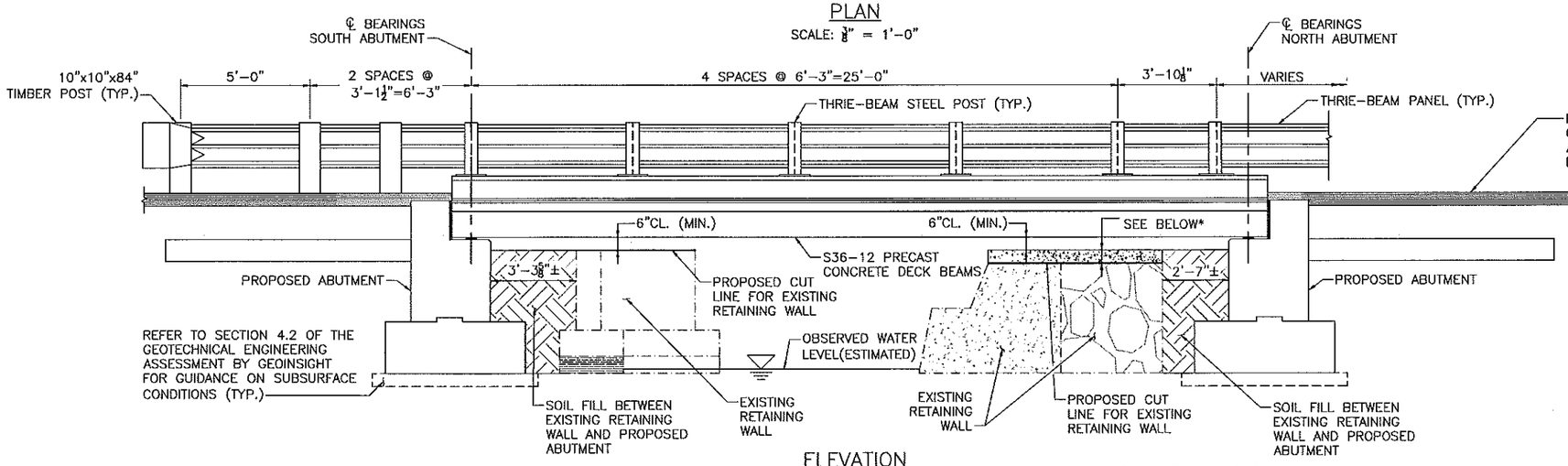


WORKING POINT	NORTHING (FT)	EASTING (FT)
W.P. 1	0.00	0.00
W.P. 2	−23.86±	5.27±
W.P. 3	5.87±	9.73±

THIS TABLE SERVES TO ESTABLISH THE LOCATION OF THE PROPOSED STRUCTURE RELATIVE TO AN EXISTING KNOWN POINT AT THE PROJECT SITE.

NOTE:
CONTRACTOR SHALL FIELD VERIFY WHETHER TIMBER POST INTERFERES WITH GRAVITY WALL. IF INTERFERENCE OCCURS AND SHALL NOTIFY THE OWNER ACCORDINGLY.

PLAN
SCALE: ⅜" = 1'-0"



ELEVATION
(LOOKING WEST)
VERTICAL SCALE: ⅜" = 1'-0"
HORIZONTAL SKEWED

* PROPOSED CONCRETE CAP SHALL BE FIELD DETERMINED BY THE CONTRACTOR.

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PLAN AND ELEVATION

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DATE: 09/24/2021
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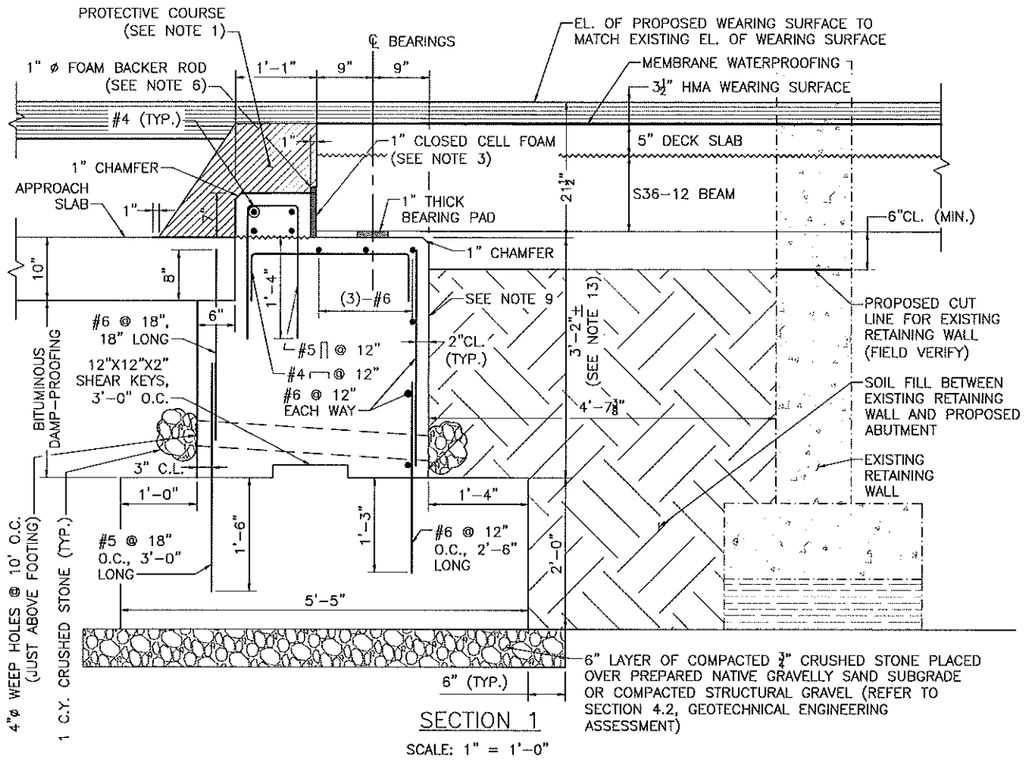
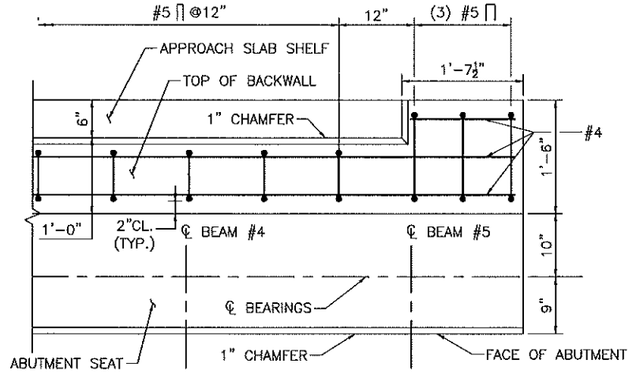


SECTION 1

SCALE: 1" = 1'-0"

NOTES:

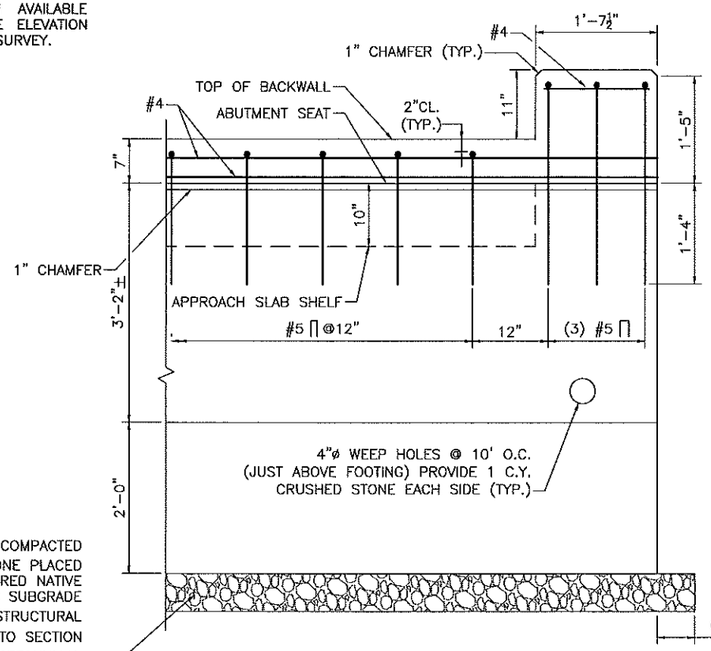
1. PROTECTIVE COURSE TO BE CLASS I DENSE BINDER COURSE FOR BRIDGES, PLACED IN 2" LAYERS AND COMPACTED WITH A MECHANICAL HAND-GUIDED TAMPER WITHIN 12 HOURS AFTER PLACING MEMBRANE WATERPROOFING.
2. ALL REINFORCING SHOWN IN THESE DETAILS SHALL BE COATED BARS, EXCEPT FOR APPROACH SLAB REINFORCEMENT.
3. ATTACH CLOSED CELL FOAM TO BACK OF PRECAST BEAM WITH ADHESIVE.
4. BACKWALL CONCRETE SHALL BE PLACED AFTER ALL BEAMS HAVE BEEN ERECTED.
5. 4000 PSI, 3/4 IN, 610 CEMENT CONCRETE SHALL BE USED FOR THE BACKWALL.
6. DRAPE MEMBRANE WATERPROOFING OVER CLOSED CELL FOAM BACKER ROD.
7. THE FACTORED BEARING PRESSURE = 2.9 KSF AS PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION.
8. FACTORED BEARING RESISTANCE = 4.5 KSF. FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE AND A RESISTANCE FACTOR OF 0.45.
9. PORTIONS OF THE ABUTMENTS, EXPOSED ABOVE GRADE, SHALL BE MADE TO APPEAR IN A FASHION THAT REINFORCES THE INDIGENOUS APPEARANCE OF THE MILL AREA.
10. ABUTMENTS ARE TO BE BACKFILLED IN FRONT AND BACK BEFORE SUPERSTRUCTURE PLACEMENT BEGINS.
11. THE ELEVATION OF THE BOTTOM OF FOOTING SHALL MATCH THE ELEVATION OF THE BOTTOM OF THE EXISTING RETAINING WALLS.
12. THE ELEVATION OF THE ABUTMENT SEAT SHALL BE 21½" BELOW THE PROPOSED ELEVATION OF THE PROPOSED WEARING SURFACE OF THE PROPOSED BRIDGE.
13. THE ABUTMENT STEM HEIGHT SHOWN IS BASED ON AVAILABLE INFORMATION AND MAY BE ADJUSTED TO ACCOMMODATE ELEVATION DIFFERENCED IDENTIFIED AS A RESULT OF CONTRACTORS SURVEY.



PLAN – N.E. CORNER NORTH ABUTMENT

(SOUTH ABUTMENT SIMILAR)

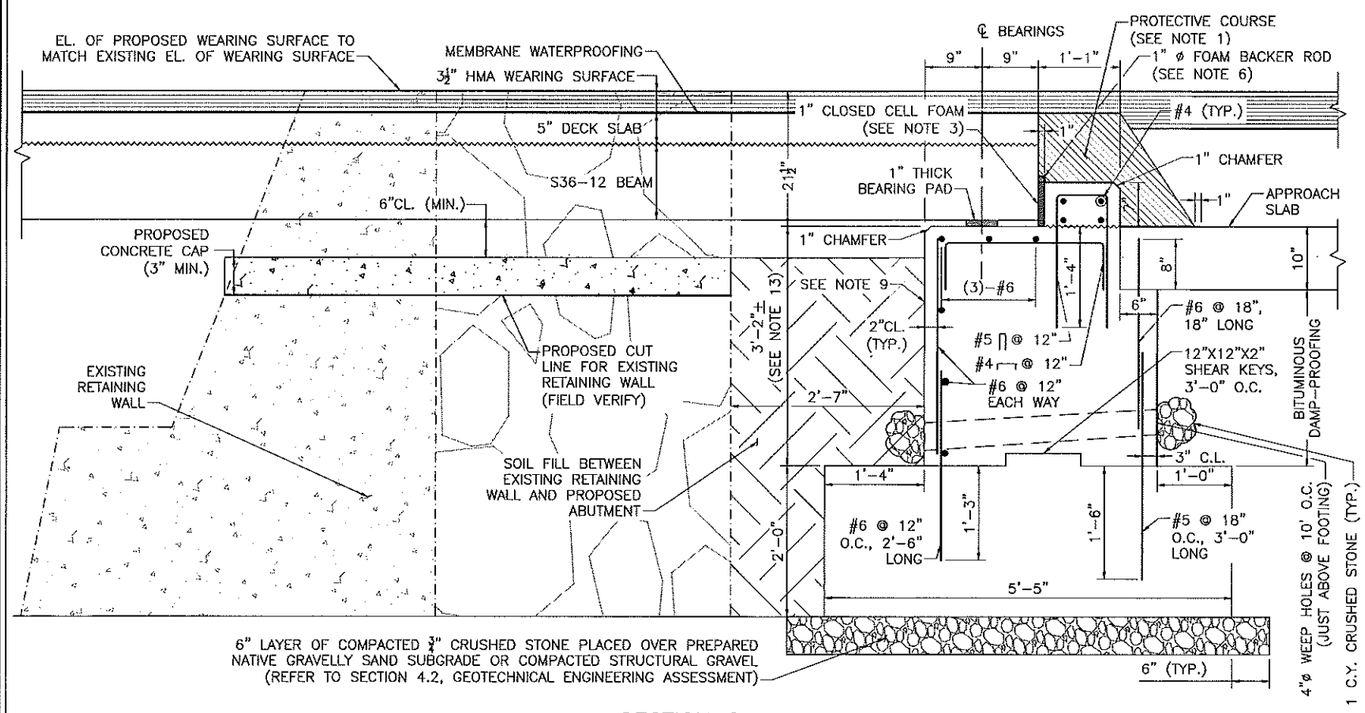
SCALE: 1" = 1'-0"



ELEVATION – N.E. CORNER NORTH ABUTMENT

(SOUTH ABUTMENT SIMILAR)

SCALE: 1" = 1'-0"



SECTION 2

SCALE: 1" = 1'-0"

APPROVED DATE: 6-22-2021

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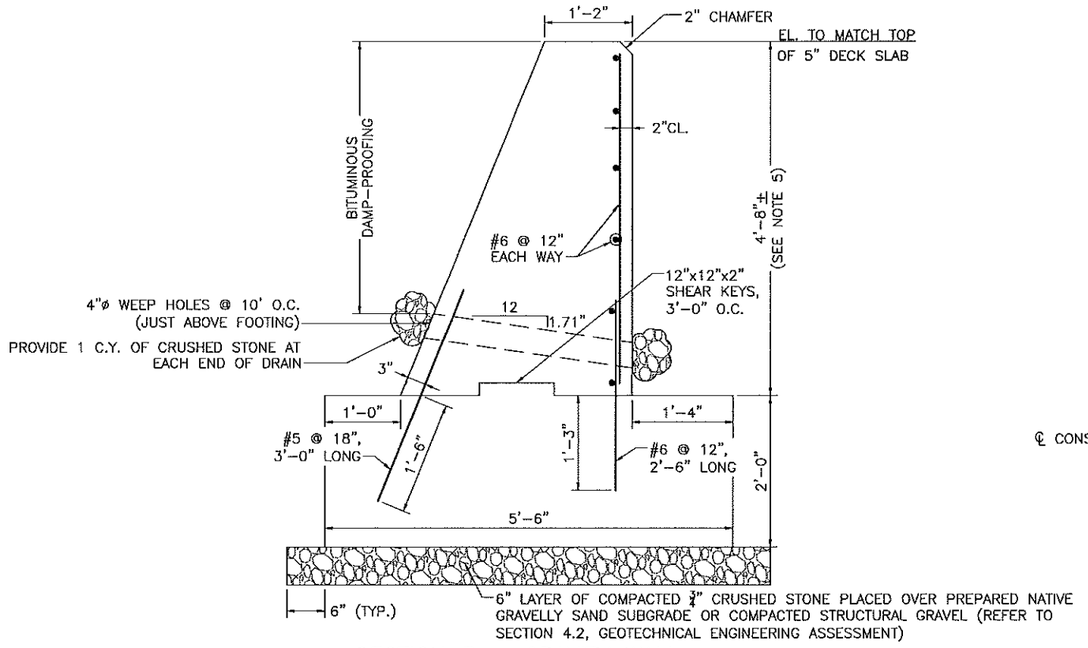
ABUTMENT PLAN, ELEVATION, AND SECTIONS

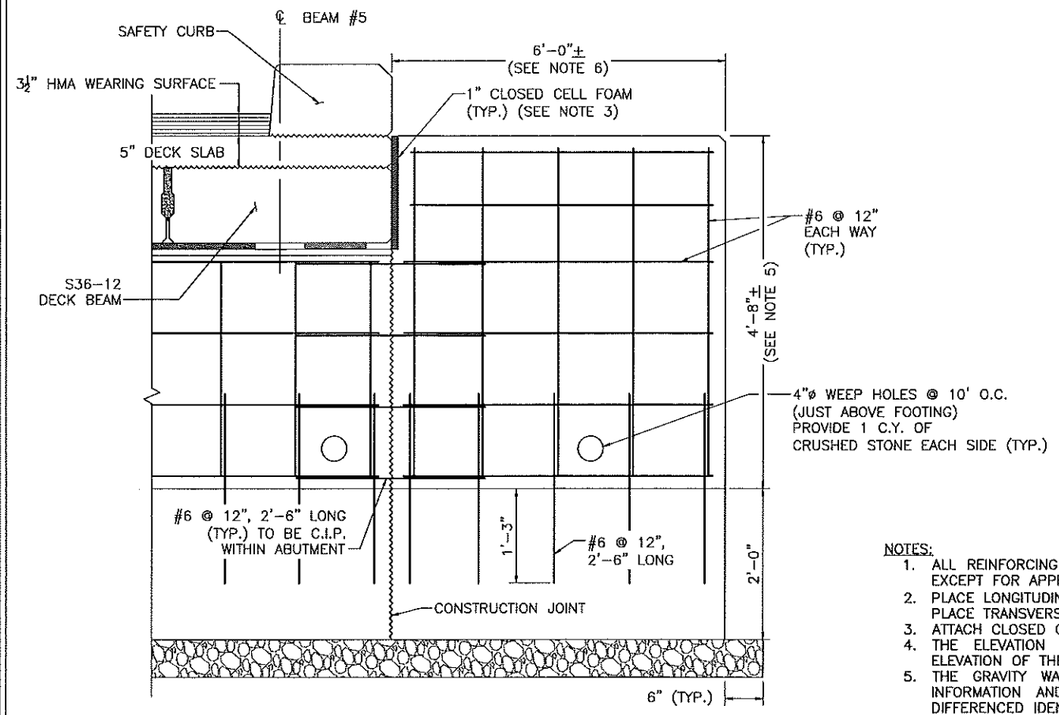
NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: AD
DATE: 09/24/2021
SHEET NO: 04



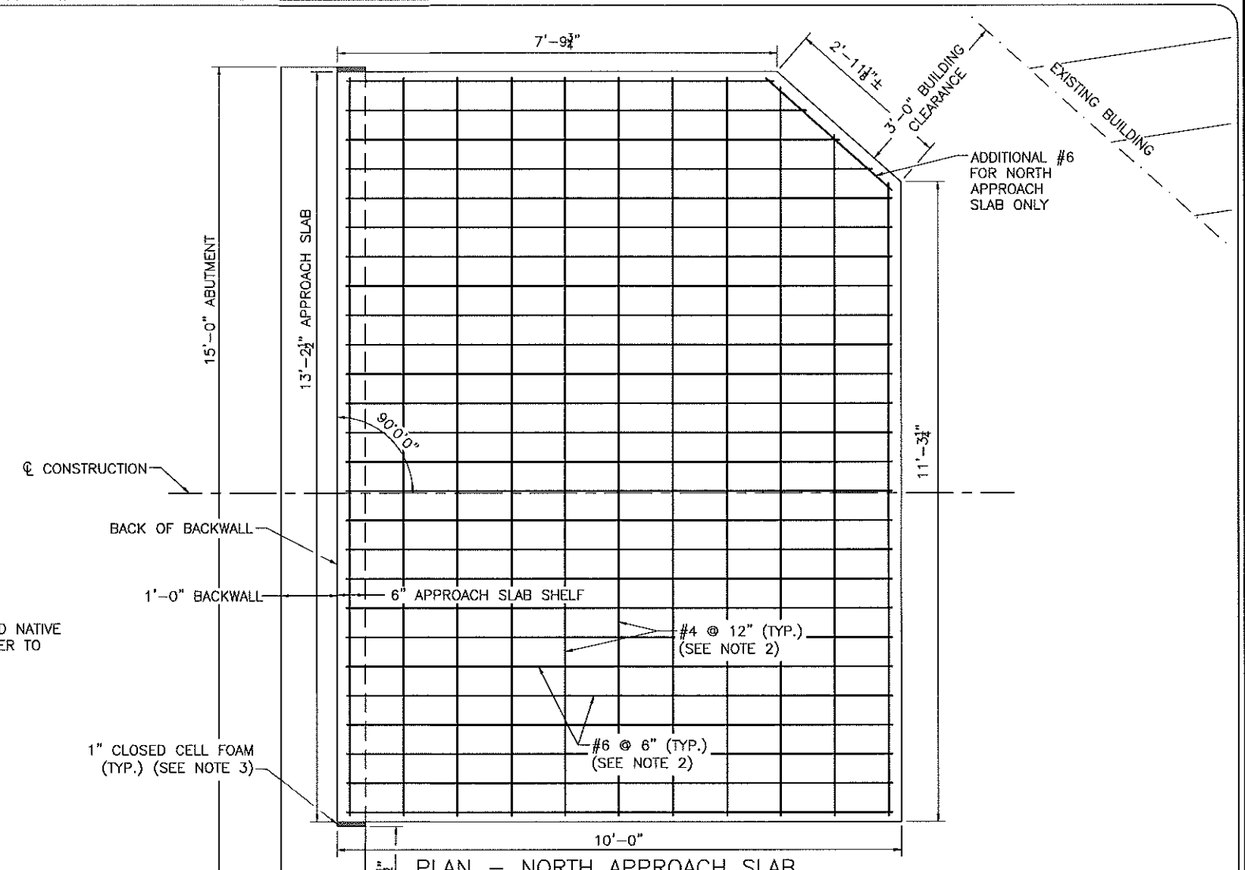
SECTION 3 – GRAVITY WALL

SCALE: 1" = 1'-0"



ELEVATION – NORTH ABUTMENT/GRAVITY WALL

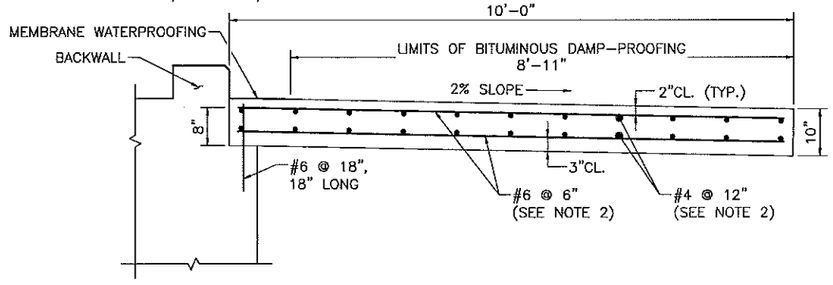
SCALE: ¾" = 1'-0"



PLAN – NORTH APPROACH SLAB

SOUTH SIMILAR

SCALE: ¾" = 1'-0"



APPROACH SLAB DETAILS

SCALE: ¾" = 1'-0"

NOTES:

1. ALL REINFORCING SHOWN IN THESE DETAILS SHALL BE COATED BARS, EXCEPT FOR APPROACH SLAB REINFORCEMENT.
2. PLACE LONGITUDINAL REINFORCEMENT PARALLEL TO ℄ CONSTRUCTION PLACE TRANSVERSE REINFORCEMENT PARALLEL TO ABUTMENT.
3. ATTACH CLOSED CELL FOAM TO BACKWALL WITH ADHESIVE.
4. THE ELEVATION OF THE BOTTOM OF FOOTING SHALL MATCH THE ELEVATION OF THE BOTTOM OF THE EXISTING RETAINING WALLS.
5. THE GRAVITY WALL STEM HEIGHT SHOWN IS BASED ON AVAILABLE INFORMATION AND MAY BE ADJUSTED TO ACCOMMODATE ELEVATION DIFFERENCED IDENTIFIED AS A RESULT OF CONTRACTORS SURVEY.
6. THE GRAVITY WALL LENGTH SHALL BE DETERMINED BY THE CONTRACTOR BASED ON THE CONDITION AND SLOPE OF THE EXISTING BANKS.

APPROVED DATE: 6-22-2021
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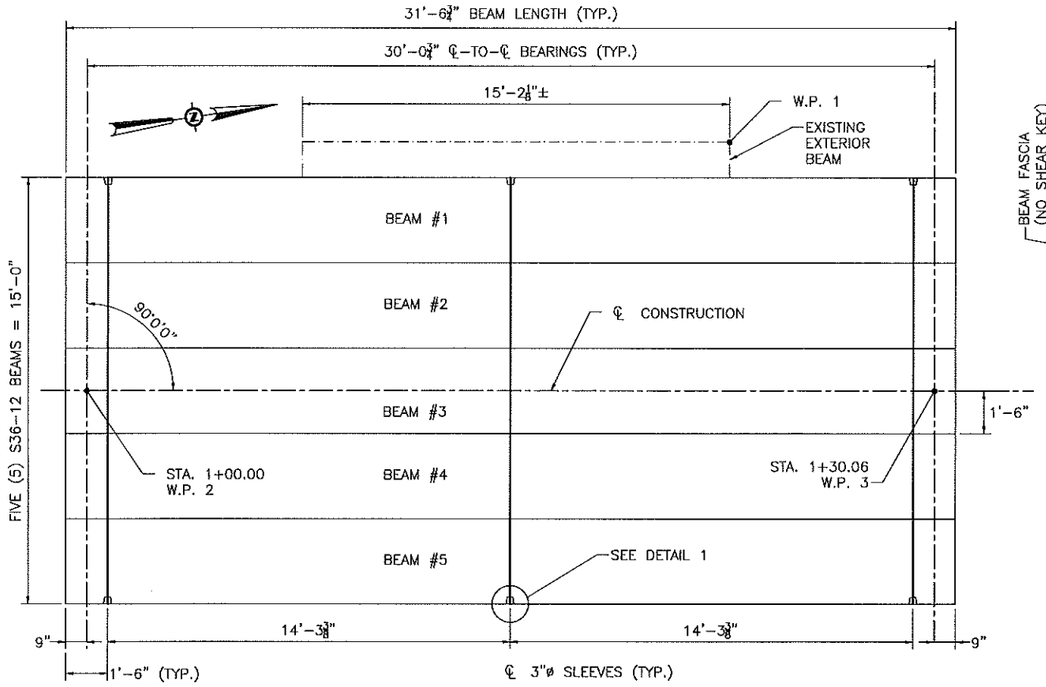
GRAVITY WALLS AND APPROACH SLAB DETAILS

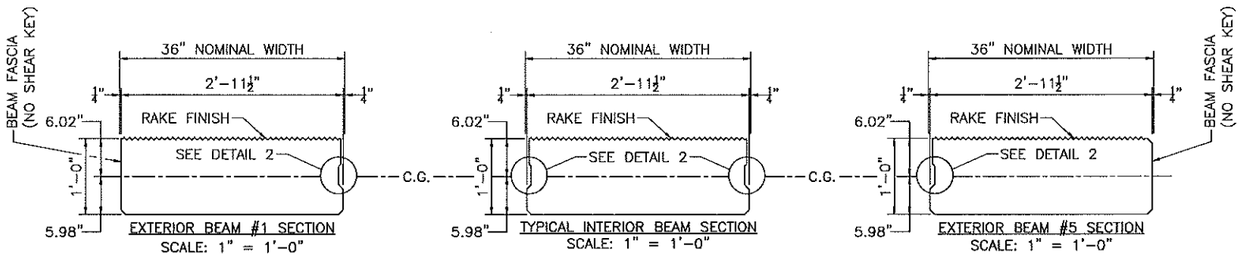
NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: WMM
DATE: 09/24/2021
SHEET NO: 05

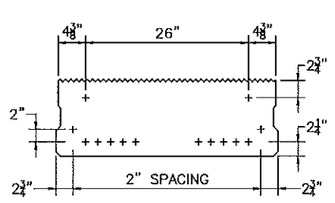


FRAMING PLAN
SCALE: ⅛" = 1'-0"

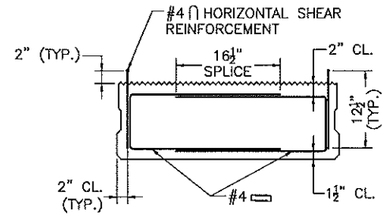
NOTE:
SEE STANDARD SPECIFICATIONS FOR BEAMS ERECTION AND LAYOUT.



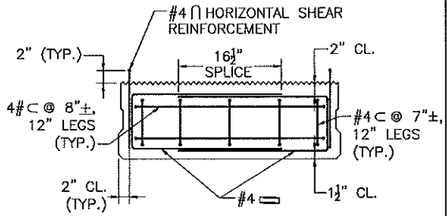
NOTE: C.G. = CENTER OF GRAVITY OF BEAM



TYPICAL BEAM STRAND LAYOUT
SCALE: 1" = 1'-0"

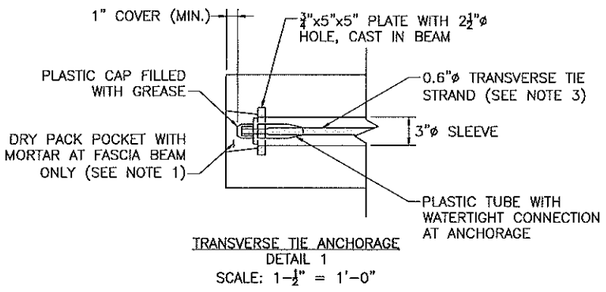


TYPICAL BEAM REINFORCEMENT*
MIDSPAN SECTION
SCALE: 1" = 1'-0"

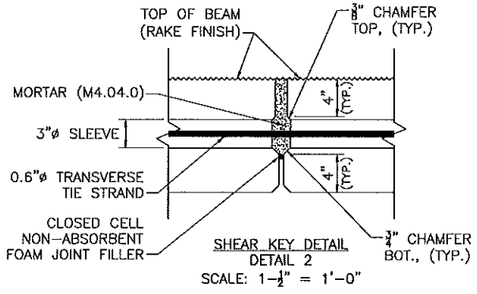


TYPICAL BEAM REINFORCEMENT*
END OF BEAM SECTION
SCALE: 1" = 1'-0"

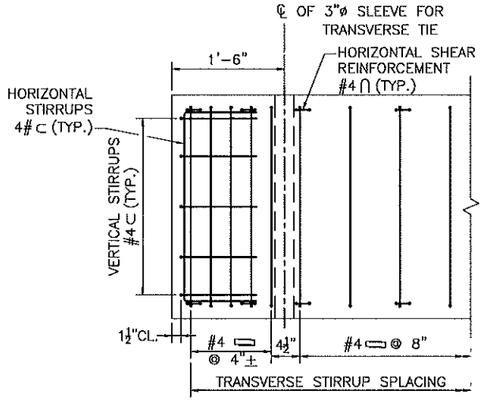
* SEE SAFETY CURB DETAIL ON NEXT SHEET FOR ADDITIONAL BEAM #5 REINFORCEMENT.



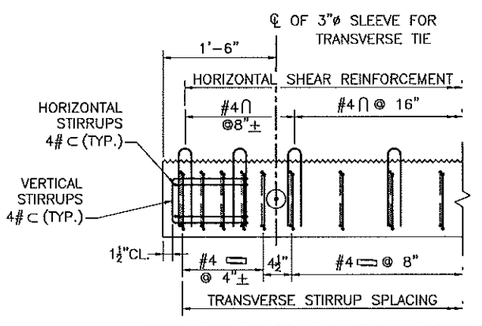
TRANSVERSE TIE ANCHORAGE
DETAIL 1
SCALE: 1-½" = 1'-0"



SHEAR KEY DETAIL
DETAIL 2
SCALE: 1-½" = 1'-0"



TYPICAL END OF BEAM PLAN
SCALE: 1" = 1'-0"



TYPICAL END OF BEAM LONGITUDINAL SECTION
SCALE: 1" = 1'-0"

DETAIL 1 NOTES:
1. MORTAR FOR EXTERIOR POCKETS SHALL CONFORM TO M4.02.15 AND SHALL BE THE SAME COLOR AND TEXTURE AS THE BEAM CONCRETE.
2. OTHER ANCHORAGE SYSTEMS MAY BE SUBSTITUTED WITH THE APPROVAL OF THE OWNER. ALTERNATE ANCHORAGE SYSTEMS SHALL BE WATERTIGHT AND CORROSION PROOF.
3. TRANSVERSE TIES SHALL BE COVERED BY A SEAMLESS POLYPROPYLENE SHEATH (WITH CORROSION INHIBITING GREASE BETWEEN THE STRAND AND SHEATH) FOR THE FULL LENGTH OF THE STRAND, EXCEPT AT THE ANCHORAGE LOCATION.

PRESTRESS NOTES:
1. ALL PRETENSIONING ELEMENTS SHALL BE 0.6" ø, UNCOATED, SEVEN-WIRE, LOW RELAXATION STEEL STRANDS AND SHALL CONFORM TO AASHTO M 203.
2. THE TENSILE STRENGTH OF THE PRETENSIONING STRANDS SHALL BE 270 KSI.
3. THE INITIAL TENSION PER 0.6" ø STRAND SHALL BE 44 KIPS.
4. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 6500 PSI.
5. NO PRESTRESS SHALL BE TRANSFERRED TO THE CONCRETE UNTIL IT HAS ATTAINED A COMPRESSIVE STRENGTH, AS SHOWN BY CYLINDER TEST, OF AT LEAST 4500 PSI.
6. THE TOP OF ALL BEAMS SHALL BE GIVEN A RAKE FINISH (¼" AMPLITUDE) ACROSS THE WIDTH (PERPENDICULAR TO THE BEAM'S AXIS).
7. THE FABRICATOR IS FULLY RESPONSIBLE FOR THE DESIGN OF THE LIFTING DEVICES WHICH SHALL BE ADEQUATE FOR THE SAFETY FACTORS REQUIRED BY THE ERECTION PROCEDURE.
8. + DENOTES STRAIGHT STRANDS.
9. SEE BEAM ELEVATION FOR STIRRUP SPACING.

CONSTRUCTION SEQUENCE NOTES:
1. AFTER ALL BEAMS HAVE BEEN ERECTED, TENSION EACH TRANSVERSE TIE TO 5 KIPS.
2. FILL ALL KEYWAYS WITH MORTAR (M4.04.0). IF THE KEYWAYS ARE NOT FILLED WITHIN FIVE (5) DAYS AFTER THE BEAMS ARE ERECTED, THE CONTRACTOR SHALL COVER AND PROTECT THE KEYWAYS FROM WEATHER AND DEBRIS UNTIL THEY ARE FILLED.
3. AFTER THE MORTAR HAS CURED (24 HOURS MINIMUM), TENSION EACH TRANSVERSE TIE TO 44 KIPS.
4. CONCRETE FOR DECK SLAB SHALL BE 4000 PSI, ¾ IN, 585 HP CEMENT CONCRETE AND SHALL BE PLACED AFTER THE TRANSVERSE TIES HAVE BEEN FULLY TENSIONED.
5. NO TRAFFIC OR HEAVY EQUIPMENT WILL BE PERMITTED ON THE BRIDGE UNTIL ALL TRANSVERSE TIES HAVE BEEN PROPERLY TENSIONED AND THE DECK HAS BEEN CAST AND CURED PER THE STANDARD SPECIFICATIONS.

APPROVED DATE: 6-22-2021
MEDWAY PLANNING BOARD
Richard J. Di Iulio
BEING A MAJORITY
ENDORSEMENT DATE 10-12-2021

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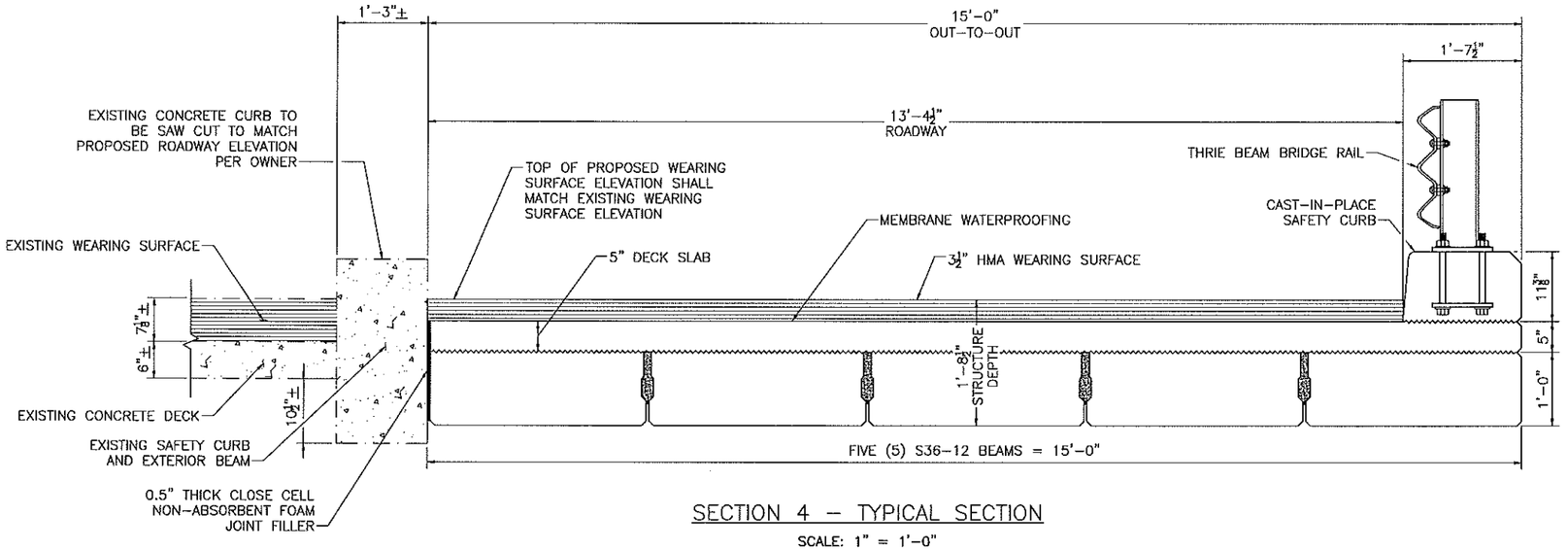
NRG CONCEPTS, INC.
MEDWAY MILL
165 MAIN STREET,
SUITE 307
MEDWAY, MA 02053

FRAMING PLAN AND BEAM DETAILS

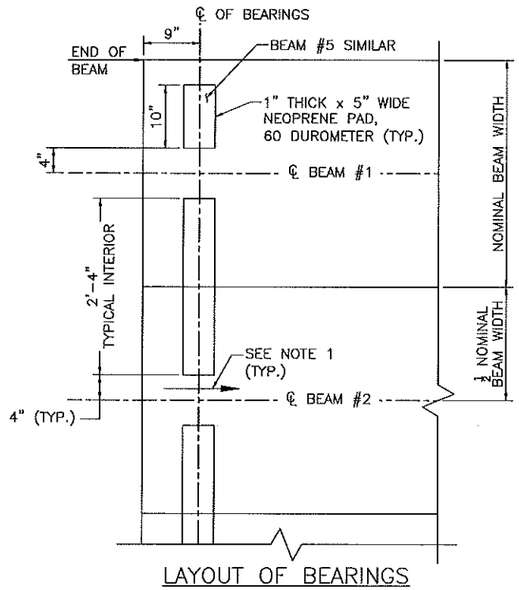
NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: WMM
DATE: 09/24/2021
SHEET NO: 06



SECTION 4 – TYPICAL SECTION

SCALE: 1" = 1'-0"

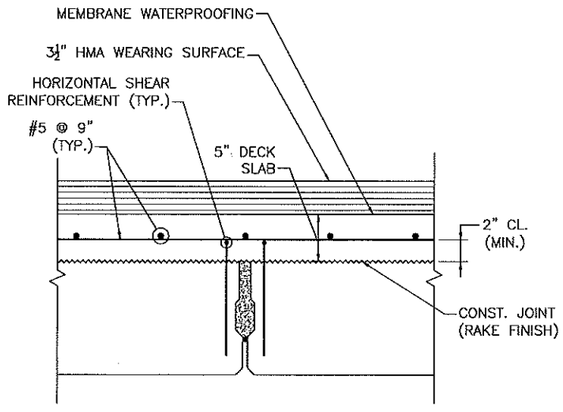


LAYOUT OF BEARINGS

SCALE: 1" = 1'-0"

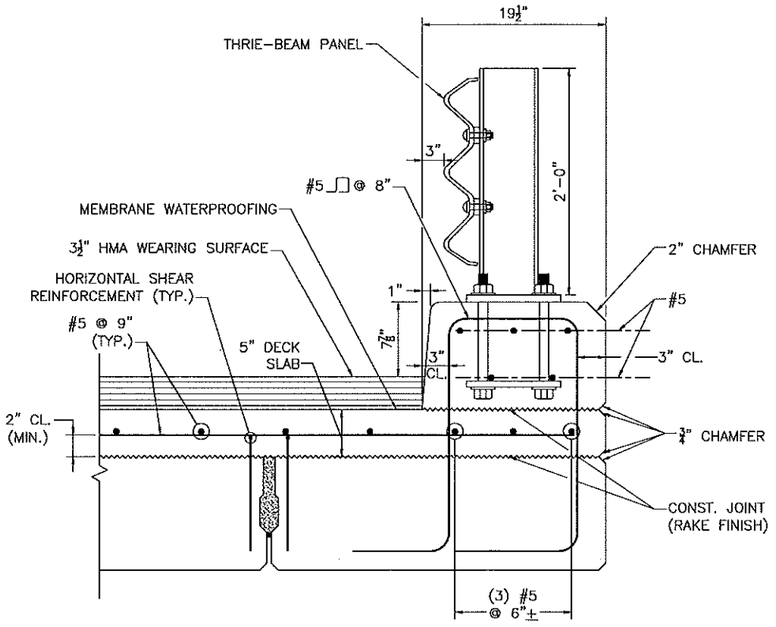
NOTE:

1. PROVIDE ⅛"/FT SLOPE BETWEEN BEARINGS.



TYPICAL DECK SECTION

SCALE: 1½" = 1'-0"



SAFETY CURB DETAIL

SCALE: 1½" = 1'-0"

APPROVED DATE: 6-22-2021

MEDWAY PLANNING BOARD

BEING A MAJORITY

ENDORSEMENT DATE 10-12-2021

COLLINS ENGINEERS
333 Elm Street, Suite 110
Dedham, MA 02026
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NRG CONCEPTS, INC.
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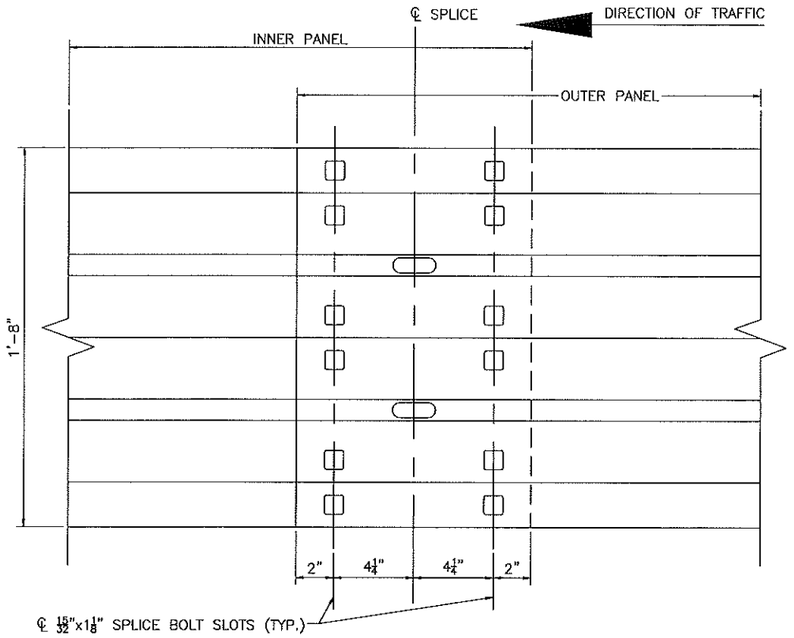
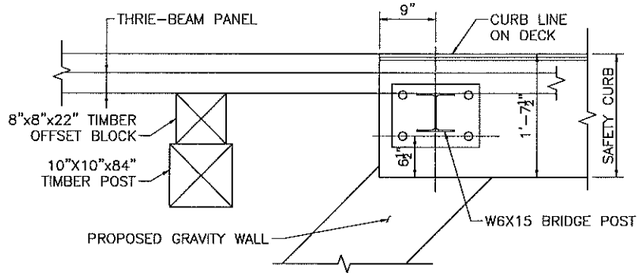
TYPICAL SECTION, SAFETY CURB, DECK SLAB, AND BEARING DETAILS

NO.	DESCRIPTION	DATE	DESIGN BY

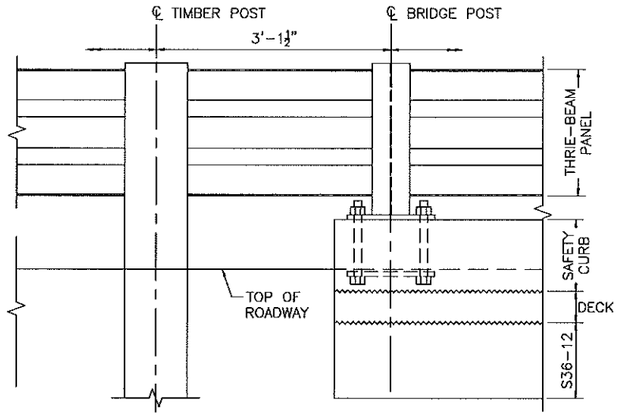
DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: WMM
DATE: 09/24/2021
SHEET NO: 07



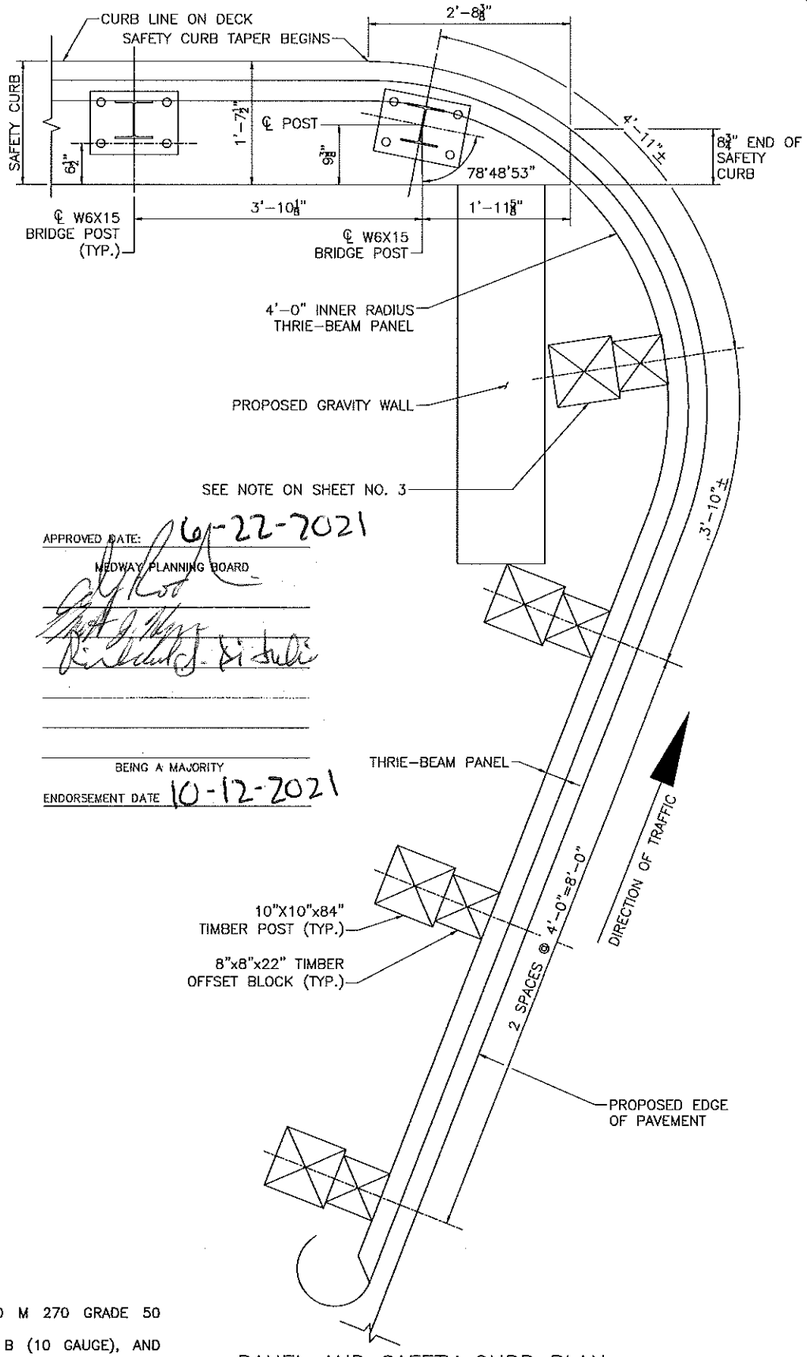
THRIE-BEAM PANEL SPLICE ELEVATION
SCALE: 3" = 1'-0"



PANEL PLAN AT SOUTHEAST CORNER
SCALE: 1" = 1'-0"

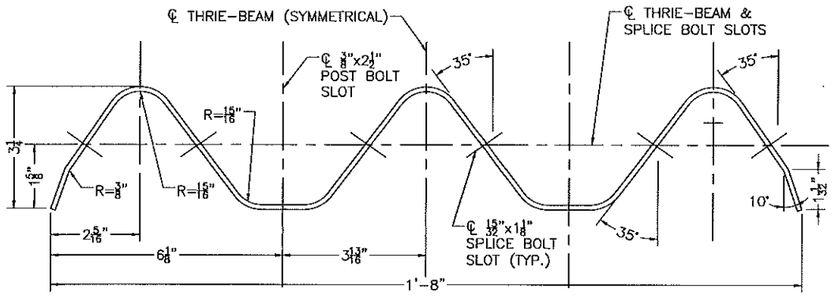


PANEL ELEVATION AT SOUTHEAST CORNER
(NORTHEAST CORNER SIMILAR)
SCALE: 1" = 1'-0"

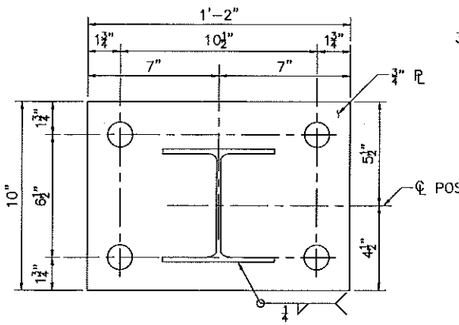


PANEL AND SAFETY CURB PLAN
AT NORTHEAST CORNER
SCALE: 1" = 1'-0"

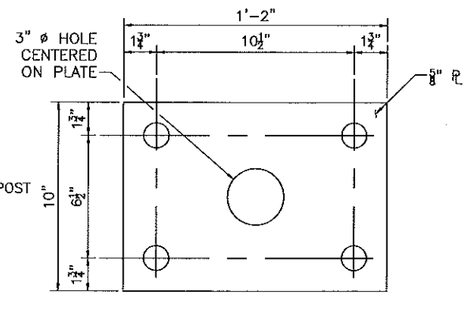
APPROVED DATE: 6-22-2021
MEDWAY PLANNING BOARD
BEING A MAJORITY
ENDORSEMENT DATE 10-12-2021



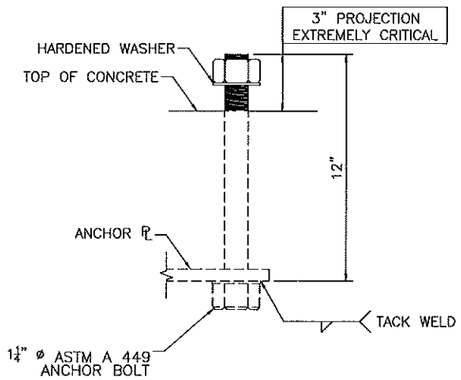
THRIE-BEAM PANEL SECTION
SCALE: 6" = 1'-0"



THRIE-BEAM POST BASE PLATE DETAIL
SCALE: 3" = 1'-0"



ANCHOR PLATE DETAIL
SCALE: 3" = 1'-0"



ANCHOR BOLT DETAIL
SCALE: 3" = 1'-0"

MATERIALS:
1. POSTS, BASE PLATES, AND ANCHOR PLATES SHALL BE AASHTO M 270 GRADE 50 GALVANIZED.
2. THRIE-BEAM BRIDGE PANEL SHALL BE AASHTO M 180, CLASS B (10 GAUGE), AND GALVANIZED.
3. NUTS, BOLTS, AND WASHERS SHALL BE GALVANIZED.

GENERAL NOTES:
1. SET POSTS PERPENDICULAR TO BRIDGE DECK.
2. ANCHOR BOLTS SHALL BE SET WITH TEMPLATES. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL ⅛ TURN AFTER STEEL IS IN PLACE.
3. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.5 – BRIDGE WELDING CODE.
4. PLACE A REFLECTORIZED WASHER IN THE UPPER VALLEY OF EVERY THRIE-BEAM POST.
5. THE MINIMUM EMBEDMENT OF THE 10"x10" TIMBER POSTS SHALL BE 4'-3½".

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THRIE-BEAM PANEL DETAILS AND SAFETY CURB TAPER PLAN

NO.	DATE	DESIGN BY	DESCRIPTION

DESIGN BY: RCB
DRAWN BY: RCB
CHECKED BY: WMM
DATE: 09/24/2021
SHEET NO: 08