### GENERAL NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO ACCOMPANY A FILING WITH THE TOWN OF ROWLEY PLANNING BOARD FOR SPECIAL PERMIT AND SITE PLAN REVIEW; AND ACCOMPANY A NOTICE OF INTENT TO BE FILED WITH THE TOWN OF ROWLEY CONSERVATION
- 2. ELEVATIONS SHOWN HEREON REFER TO THE NATIONAL GEODEDIC VERTICAL DATUM OF
- 3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND RELATIVE ELEVATION OF BENCH MARKS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- 4. CONTRACTOR SHALL FURNISH CONSTRUCTION LAYOUT OF SITE IMPROVEMENTS. THIS WORK SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR.
- 5. SAFETY MEASURES, CONSTRUCTION METHODS AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF THE CONTRACTOR.
- 6. ALL SITE CONSTRUCTION SHALL COMPLY WITH THE ROWLEY DEPARTMENT OF PUBLIC
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND / OR REMOVAL HEREON. DAMAGED IMPROVEMENTS SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- 8. ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- 9. THIS PLAN IS NOT INTENDED TO SHOW AN ENGINEERED BUILDING FOUNDATION DESIGN, WHICH WOULD INCLUDE DETAILS AND FINAL ELEVATIONS OF FOOTINGS, WALLS AND SUBSURFACE DRAINAGE TO PREVENT INTERIOR FLOODING. SEE ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS.
- 10. PROPOSED BUILDING FOUNDATION CONFIGURATION AND LOCATION ON THE LOT AS SHOWN ARE CONCEPTUAL AND SHALL BE VERIFIED AS TO CONFORMANCE WITH FINAL ARCHITECTURAL PLANS AND ZONING ORDINANCES PRIOR TO CONSTRUCTION. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING HORIZONTAL AND VERTICAL
- MEASUREMENTS FOR ALL SUBSURFACE STRUCTURES. THIS INFORMATION SHALL BE REPORTED TO THE ENGINEER.
- 12. STANDARD PARKING SPACES ARE 9'X 18', TYPICAL SITE DRIVEWAYS ARE 24' WIDE. HANDICAP PARKING SPACES SHALL MEET ADA REQUIREMENTS.
- 13. WETLANDS SHOWN HEREON WERE DELINEATED BY SEEKAMP ENVIRONMENTAL CONSULTING IN JANUARY 2023 AND LOCATED BY FIELD SURVEY.

### GRADING AND UTILITY PLAN NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- 2. UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND. 3. RIM ELEVATIONS SHOWN FOR NEW STRUCTURES ARE APPROXIMATE AND ARE PROVIDED TO ASSIST CONTRACTOR WITH MATERIAL TAKEOFFS. FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- 4. WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ ABANDONED, LINES/STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH OWNER REQUIREMENTS.
- 5. THE CONTRACTOR SHALL ENCASE AND/OR SLEEVE SEWER AND WATER MAINS WHERE THE CROWN OF THE SEWER PIPE IS LESS THAN 18 INCHES BELOW THE INVERT OF THE WATER PIPE AND WHERE THE HORIZONTAL SEPARATION IS LESS THAN 10 FEET, AS REQUIRED BY THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- STRUCTURE DETAILS FROM INDEPENDENT VENDORS ARE CONSTANTLY CHANGING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT DETAILS SHOWN MATCH CURRENT DETAILS AND SPECIFICATIONS FROM VENDORS.
- CONTRACTOR SHALL INSTALL ALL PARKING AREAS AND WALKWAYS IN ACCORDANCE WITH APPLICABLE ADA AND MAAB REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE
- HANDICAPPED SPACES AND STRIPED AREA SLOPES SHALL NOT EXCEED 2% IN ANY
- HANDICAPPED RAMPS SHALL NOT EXCEED 8% FOR A MAXIMUM VERTICAL DISTANCE OF 6
- SIDEWALKS SHALL HAVE A MAXIMUM SLOPE IN THE PATH OF TRAVEL OF 5% AND A MAXIMUM CROSS SLOPE OF 2%. CONTRACTOR SHOULD NOT LAYOUT SLOPES EXCEEDING 4.5% AND 1.5% RESPECTIVELY TO ALLOW FOR CONSTRUCTION TOLERANCES. IF THE CONTRACTOR DETERMINES THAT THE REQUIRED SLOPES CANNOT BE ACHIEVED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE INFORMATION TO THE
- ENGINEER FOR RESOLUTION. ALL PROPOSED TOP OF VERTICAL CURB ELEVATIONS ARE 6" ABOVE THE BOTTOM OF CURB
- UNLESS OTHERWISE SHOWN. 9. WHERE NEW PAVING MEETS EXISTING PAVING, MEET LINE AND GRADE OF EXISTING WITH NEW
- 10. AT LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE
- EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE. 11. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES
- INCURRED DURING CONSTRUCTION OPERATIONS AT NO ADDITIONAL COST TO THE OWNER. 12. CONTRACTOR SHALL VERIFY ALL PROPOSED TOP OF CURB ELEVATIONS BEFORE PROCEEDING WITH ANY CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCY WHICH MAY
- 13. ALL DISTURBED AREAS NOT COVERED WITH PAVEMENT, STRUCTURES, INDIVIDUAL PLANTINGS, OR MULCH SHALL HAVE LOAM AND SOD, OR LOAM AND SEED AS SHOWN ON THE
- LANDSCAPE PLANS OR AS DIRECTED BY THE ENGINEER. 14. ALL UNDERGROUND STRUCTURES AND UTILITIES SHALL BE CAPABLE OF WITHSTANDING H20
- 15. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY AT NO ADDITIONAL COST BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE
- 16. EROSION CONTROLS SHOWN HEREON SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS WITHIN BUFFER ZONE, AND SHALL SERVE AS THE LIMIT OF WORK.
- 17. CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED
- 18. ALL POINTS OF CONSTRUCTION EGRESSOR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC ROADS.

### REGULATORY NOTES

- CONTRACTOR SHALL CONTACT "DIG-SAFE" FOR AN UNDERGROUND UTILITY MARKING AT 811 AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK.
- CONTRACTOR SHALL MAKE HIMSELF AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY
- ALL WORK OUTSIDE OF THE BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF THE BUILDING FOUNDATION SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

### SHEET INDEX

SHEET	<i>TS</i>	TITLE SHEET
SHEET	<i>EC.</i>	EXISTING CONDITIONS PLAN
SHEET	<i>C1</i>	LAYOUT & MATERIALS PLAN
SHEET	<i>C2</i>	.GRADING, DRAINAGE & UTILITY PLAN
	<i>C3</i>	
SHEET	C4	.SITE DETAILS
SHEET	<i>C5</i>	.SITE DETAILS

# PERMIT SITE PLAN

# FOREST RIDGE DRIVE

ROWLEY, MASSACHUSETTS 01969

FOR

Hunsley Hills

**PROJECT** 

Kathleen Circ

Area

1

12-40

Coughlin/Gateway Trust CR

GATEWAY II TRUST OF 1997

I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN. (MASS. GEN. LAWS CHAPTER 41, SEC. 81-X).

PROFESSIONAL LAND SURVEYOR

PARCEL# 7-10-5-8 PARCEL# 7-10-5-1 PARCEL# 7-14 PARCEL# 7-10-8

(#58-66)(#70) (#67

MASSACHUSETTS HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE ROWLEY PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO NOTICE OF APPEAL WAS RECEIVED IN THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

KENT CORNER

CLERK OF THE TOWN OF ROWLEY,

DATE

I DECLARE, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS.

> DATE FOR HANCOCK ASSOCIATES

FOR REGISTRY OF DEEDS USE ONLY

PREPARED FOR:

### GATEWAY II **TRUST** OF 1997

239 Western Ave. Essex, MA 01929

### **HANCOCK ASSOCIATES**

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923 VOICE (978) 777-3050, FAX (978) 774-7816 WWW.HANCOCKASSOCIATES.COM

# CHARLES DO No. 37876 7/24/23

CFB CEW 7/24/23 PEER REVIEW PLANNING BOAR NO.|BY|APP| DATE |ISSUE/REVISION DESCRIPTION

TITLE

SHEET

26696

PATH: F:\Civil 3D Projects\26696-Gateway-Rowley\Eng\DWG\

DWG: *26696psp-upp* AYOUT: *TS (2)* 1 OF 7 SHEET: PROJECT NO.:

PPRVD. BY:

**OWNERS:** 

GATEWAY II TRUST OF 1997 239 WESTERN AVE ESSEX, MASS 01929

LOT 4A FOREST RIDGE CONDOMINIUM 58-66 FOREST RIDGE DRIVE ROWLEY, MA 01969

### PROJECT TEAM

APPLICANT: GATEWAY II TRUST OF 1997 239 WESTERN AVE ESSEX, MASS 01929

LAND SURVEYORS: HANCOCK ASSOCIATES 185 CENTRE STREET DANVERS, MASSACHUSETTS 01923

**CIVIL ENGINEERS:** HANCOCK ASSOCIATES 185 CENTRE STREET DANVERS, MASSACHUSETTS 01923

APPROVED BY THE

ROWLEY PLANNING BOARD

### DATE APPROVED

### EROSION CONTROL NOTES EARTHEN STOCKPILES NOT IN ACTIVE USE FOR MORE THAN 48 HOURS

- SHALL BE KEPT HYDROSEEDED OR COVERED. 2. STRIPPED TOPSOIL SHALL BE DEPOSITED INSIDE LEASE LINE OR IN AREA
- DESIGNATED, BUT IN ALL CASES EROSION CONTROLS SHALL BE INSTALLED AT THE TOE OF SLOPES TO PREVENT EROSION. LOAM PILES TO BE HYDROSEEDED OR COVERED. CONTRACTOR TO EMPLOY MEASURES TO CONTROL DUST DURING DEMOLITION
- AND CONSTRUCTION. ALL SOIL PILES NOT IN ACTIVE USE SHALL BE KEPT COVERED AND MOIST TO LIMIT DUST GENERATION. THE CONTRACTOR SHALL SUBMIT A DUST MANAGEMENT PLAN, FOR REVIEW AND ACCEPTANCE BY THE OWNER PRIOR TO COMMENCEMENT OF WORK. PARKING LOT AND STREET CLEANING SHALL BE DONE EVERY WEEK AS NEEDED. CONTINUOUSLY CLEAN DRIVES AND WALKS OF FALLEN OR WIND BLOWN DEBRIS. EROSION CONTROL BARRIERS SHALL BE INSPECTED ON A DAILY BASIS AND
- MAINTAINED IN GOOD REPAIR AND REPLACED IF NECESSARY THROUGHOUT THE COURSE OF CONSTRUCTION. ACCUMULATED SEDIMENT TO BE REMOVED AFTER EACH RAINFALL AND AS OTHERWISE NEEDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENT CONTROLS. WATTLE SHALL BE EMPLOYED TO PREVENT SEDIMENT FROM WASHING OFF THE SITE. SILT SACKS, CRUSHED STONE AND EROSION CONTROL TUBES SHALL BE PLACED AROUND CATCH BASINS AND STORM INLETS TO PREVENT SEDIMENT FROM WASHING INTO THE DRAINAGE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SEDIMENT CONTROLS UNTIL THE COMPLETION OF THE PROJECT, AT WHICH TIME THE SEDIMENT CONTROLS ARE TO BE REMOVED WHEN APPROVED BY THE TOWN OF ROWLEY.
- EROSION CONTROLS SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR TO INSTALL ADDITIONAL CONTROLS AS NEEDED TO ENSURE THAT NO SEDIMENTATION OCCURS BEYOND THE LIMIT OF WORK LINE. UPON COMPLETION OF GRADING. ALL AREAS SHALL BE LOAMED AND SEEDED OR
- HAY MULCHED OR SEEDED WITH RYE GRASS, AS REQUIRED. AFTER REMOVAL OF STRUCTURES, NO EXCAVATION OR ANY SLOPE ON THE SITE SHALL BE LEFT STEEPER THAN 2:1 UNLESS OTHERWISE NOTED.
- ALL EXPOSED SURFACES NOT COVERED WITH LANDSCAPING OR PAVEMENT SHALL HAVE 1-INCH OF STRAW MULCH STREWN OVER THE AREAS TO PROTECT AGAINST EROSION AND WIND BLOWN DUST.
- SEE LANDSCAPE PLANS FOR TREE PROTECTION & DETAILS.

# DARCEL ID

	PARCEL ID	OWNER	REFERENCES
1	7–7	GATEWAY II TRUST OF 1997	DEED BOOK 24891, PAGE 537 PLAN 77 OF 1947 PLAN BOOK 359, PLAN 91
2	7-11 ALICE & WOODY, PLAN BOOK 359, PL		DEED BOOK 38303, PAGE 184 PLAN BOOK 359, PLAN 91 (PARCELS A, C & D)
3	7-12-1	SUZANNE M. TWOMEY	DEED BOOK 15346, PAGE 215 PLAN BOOK 330, PLAN 73
4	7–12	SAVORY COMMERCIAL REALTY TRUST	DEED BOOK 37263, PAGE 460 PLAN BOOK 330, PLAN 73 (LOT A1)
5	7–13	GATEWAY II TRUST OF 1997  ALICE & WOODY, LLC  SUZANNE M. TWOMEY  SAVORY COMMERCIAL REALTY TRUST  ANN MARIE MURPHY  BHOLDING LLC  CLARK & HEATHER L'ABBE  TOWN OF ROWLEY  GATEWAY II TRUST  GATEWAY II TRUST  GATEWAY II TRUST  GATEWAY II TRUST  OF 1997  NEW ENGLAND COUNTRY CLUB MGT  PALENCIA FAMILY TRUST  DEED BOOK 24891, PLAN 77 OF PLAN BOOK 38303, PLAN BOOK 359, (PARCELS A, C  DEED BOOK 15346, PLAN BOOK 37263, PLAN BOOK 330, (LOT A1)  DEED BOOK 19066, PLAN BOOK 345, PLAN BOOK 345, DEED BOOK 1238, PLAN BOOK 270, PLAN BOOK 270, PLAN BOOK 474, PLAN BOOK 348, DEED BOOK 16035, PLAN BOOK 144, DEED BOOK 15768,  DEED BOOK 15768, DEED BOOK 12469 MGT  DEED BOOK 39657  TOWN OF ROWLEY  DEED BOOK 39657  DEED BOOK 39657  DEED BOOK 39657  DEED BOOK 39657	DEED BOOK 19066, PAGE 479 PLAN BOOK 307, PLAN 98
6	7–14–1	GATEWAY II TRUST OF 1997  ALICE & WOODY, LLC  SUZANNE M. TWOMEY  SAVORY COMMERCIAL REALTY TRUST  CLARK & HEATHER L'ABBE  TOWN OF ROWLEY  GATEWAY II TRUST OF 1997  DEED BOOK 24891, PLAN 77 OF PLAN BOOK 359, (PARCELS A, COMMERCIAL PLAN BOOK 330, PLAN BOOK 307, PLAN BOOK 313, THE SPIRIT REALTY TRUST  TOWN OF ROWLEY  GATEWAY II TRUST OF 1997  NEW ENGLAND COUNTRY CLUB MGT  PALENCIA FAMILY TRUST  OF 1997  DEED BOOK 15768, PLAN BOOK 1440, PLAN BOOK 144, PLAN BOOK 15768, PLAN BOOK 157	DEED BOOK 38179, PAGE 257 PLAN BOOK 345, PLAN 86
7	14-14-2		DEED BOOK 11238, PAGE 539 PLAN BOOK 270, PLAN 79 PLAN BOOK 313, PLAN 49
8	14-29		DEED BOOK 40083, PAGE 420 PLAN 157 OF 2021
9	8-2	TOWN OF ROWLEY	DEED BOOK 16823 PAGE 201
10	7–17–1	TOWN OF ROWLEY	DEED BOOK 37924, PAGE 11 PLAN BOOK 474 PAGE 11
11	7–17		DEED BOOK 36517, PAGE 337 DEED BOOK 37924, PAGE 11 PLAN BOOK 474, PAN 11 PLAN BOOK 348, PLAN 86
12	8-19-8	TOWN OF ROWLEY	DEED BOOK 16035, PAGE 237 PLAN BOOK 144, PLAN 83
13	7–9		DEED BOOK 15768, PAGE 550
14	7–2	COUNTRY CLUB	DEED BOOK 12469 PAGE 606
15	14-22-3		DEED BOOK 39657 PAGE 472
16	14-22-1	TOWN OF ROWLEY	DEED BOOK 14402 PAGE 495
17	14-17		DEED BOOK 31921 PAGE 25

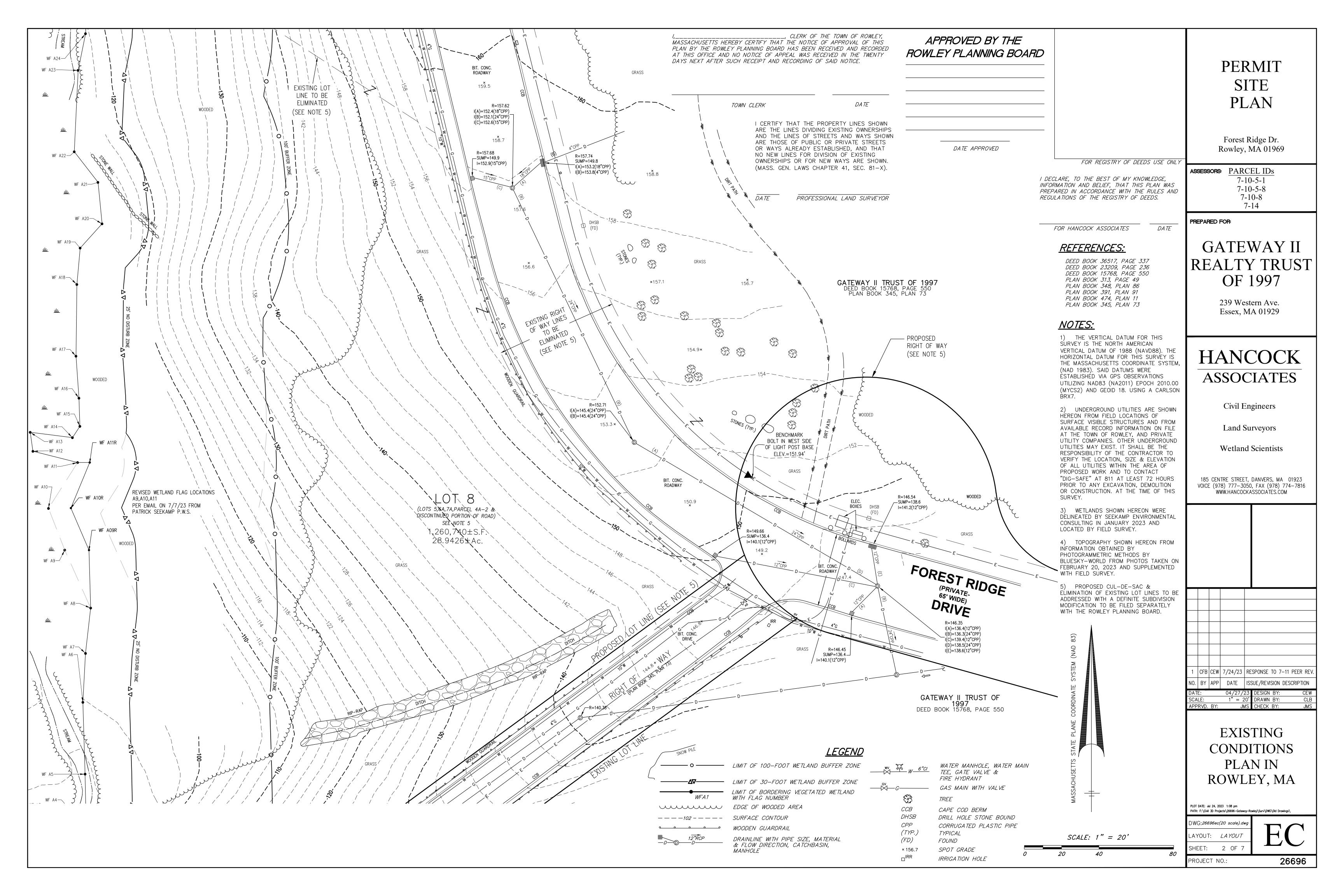
Rowley, Massachusetts ASSESSORS: PARCEL IDS 7-10-5-1

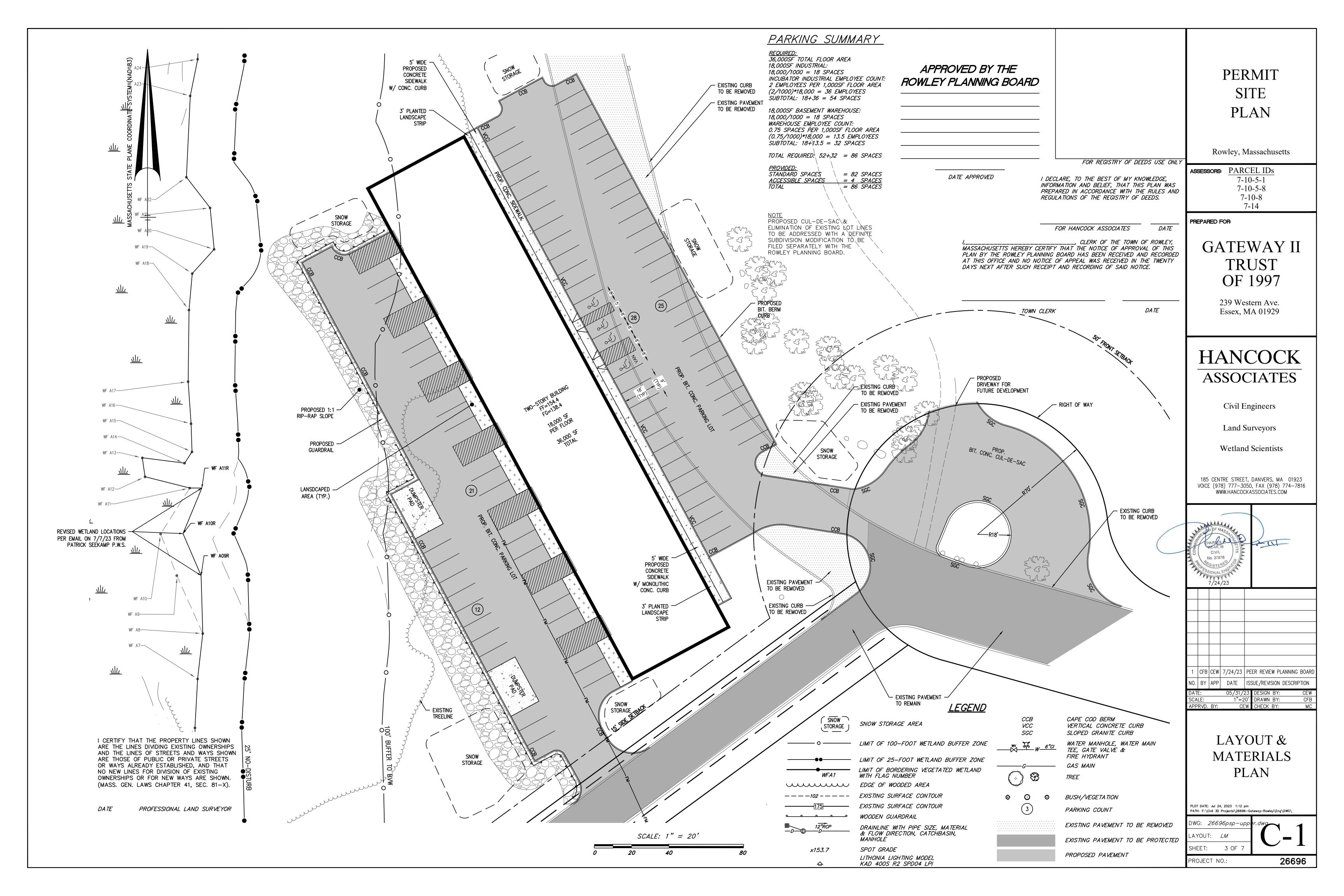
**PERMIT** 

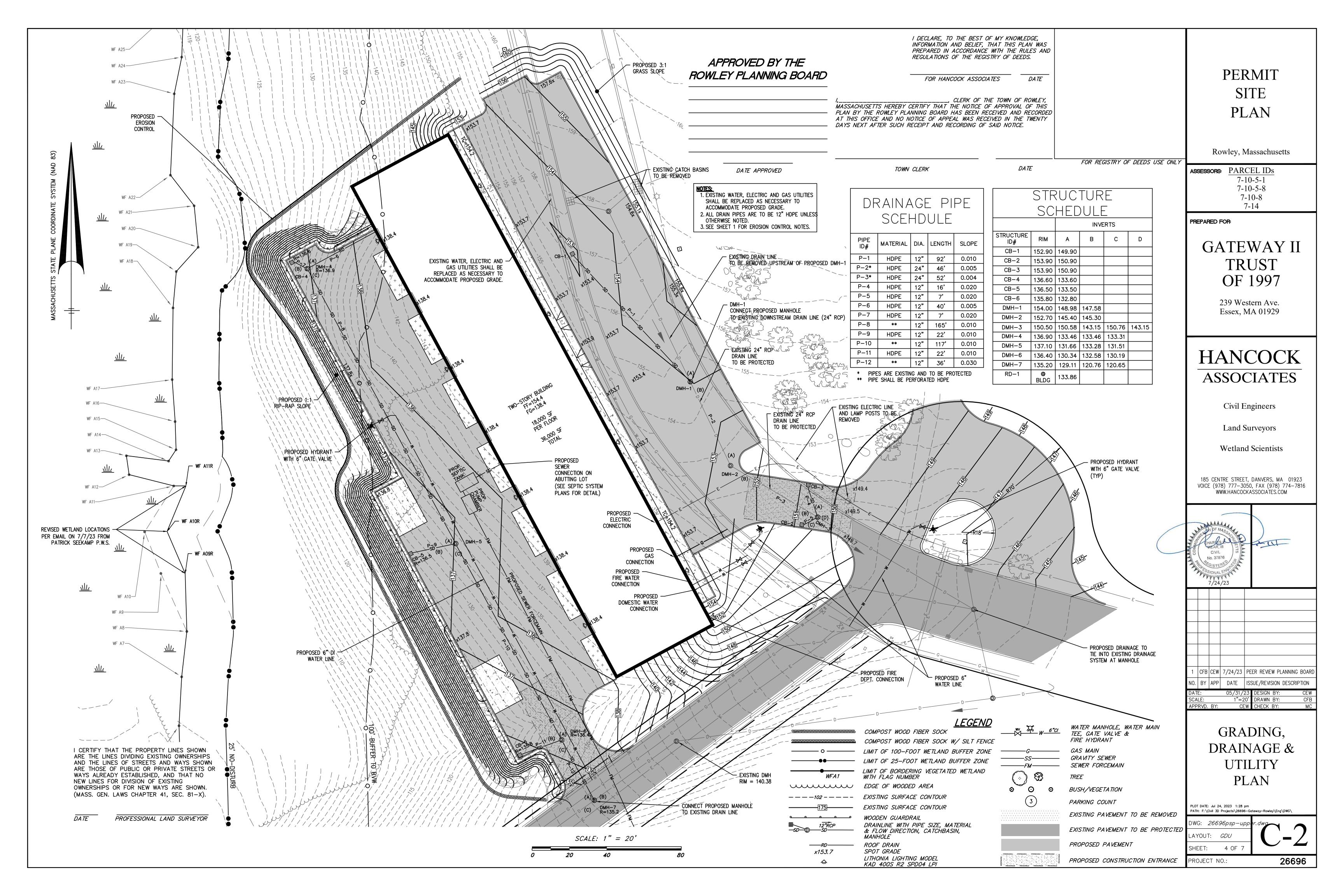
**PLAN** 

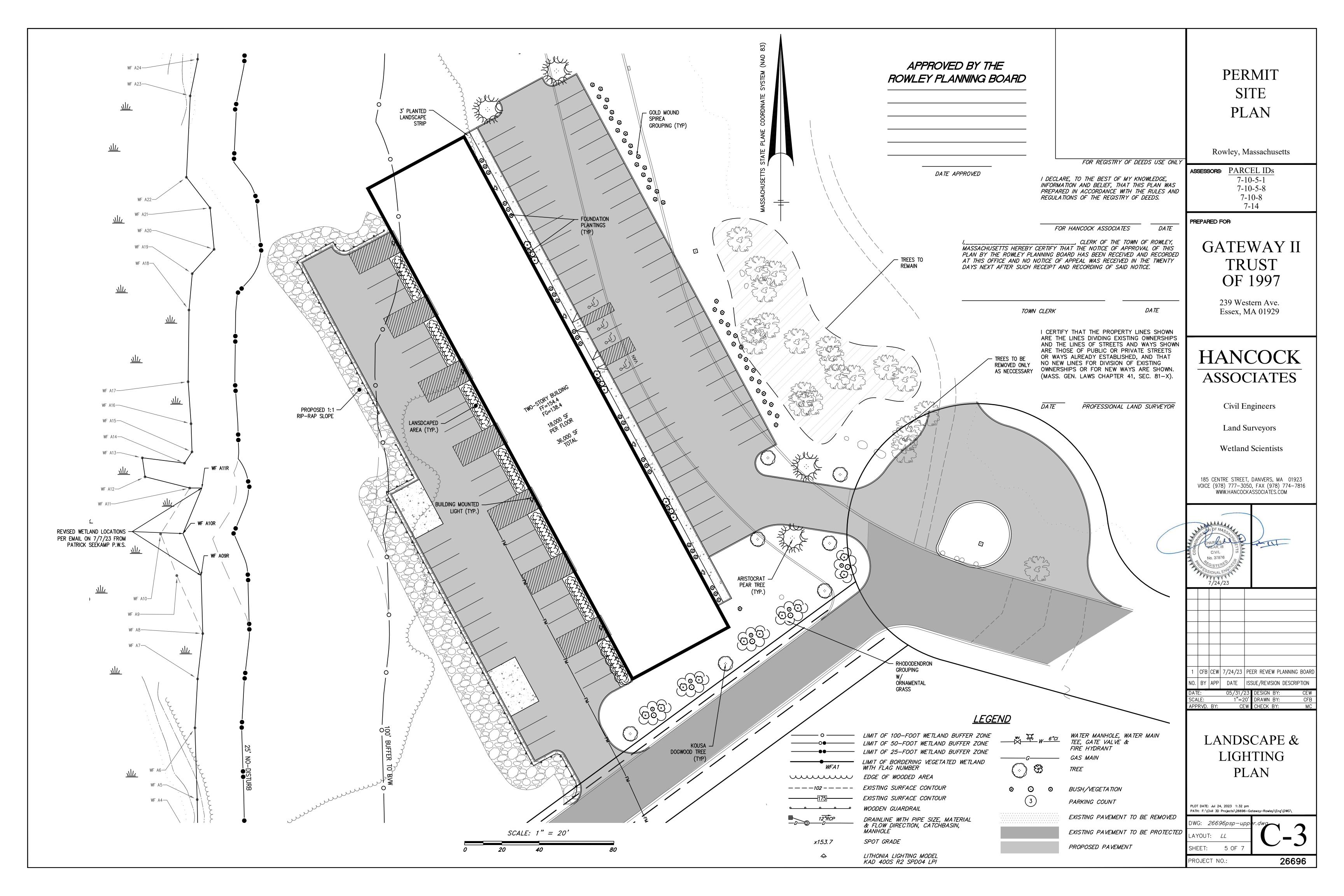
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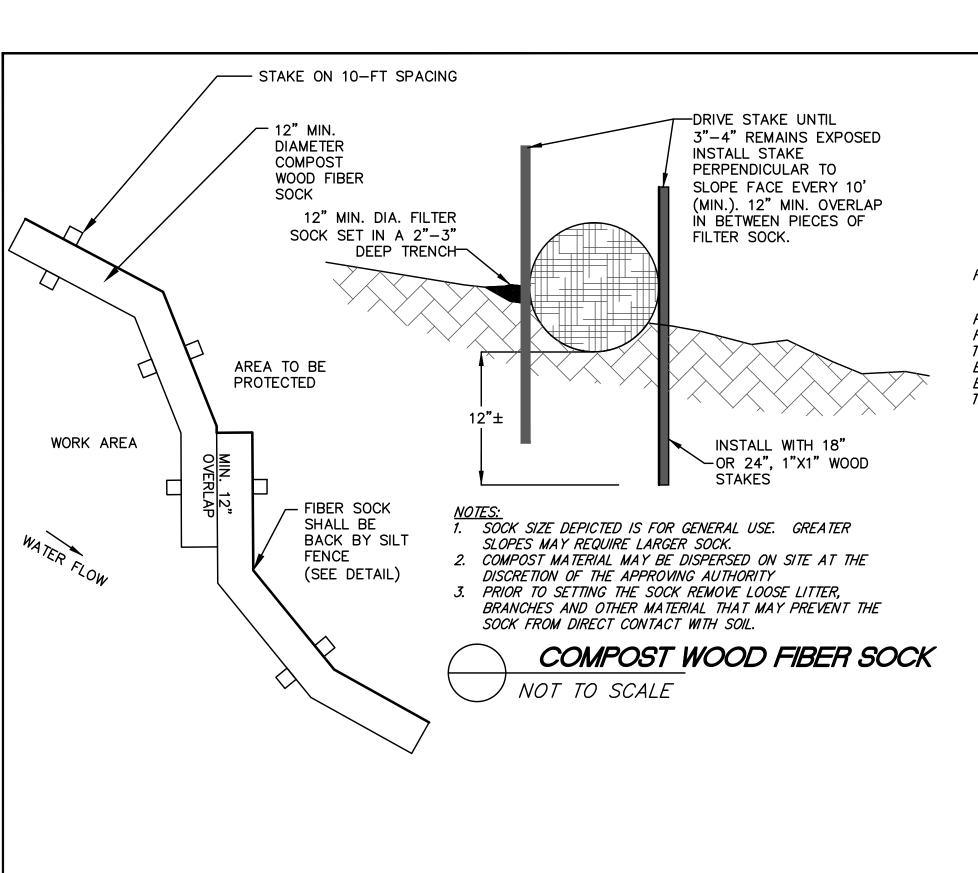
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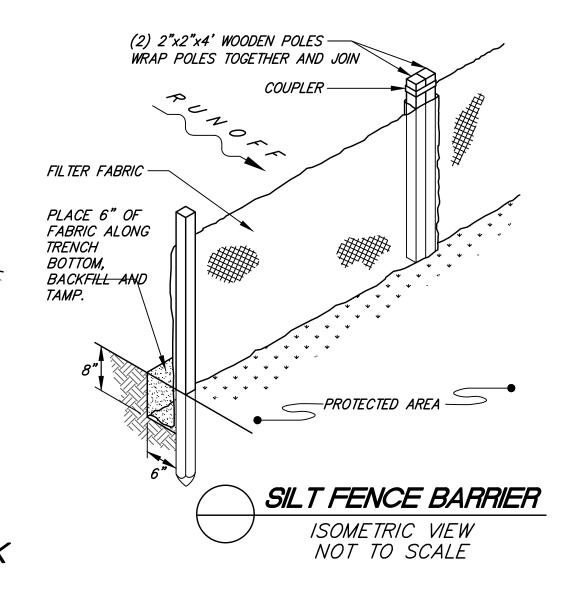


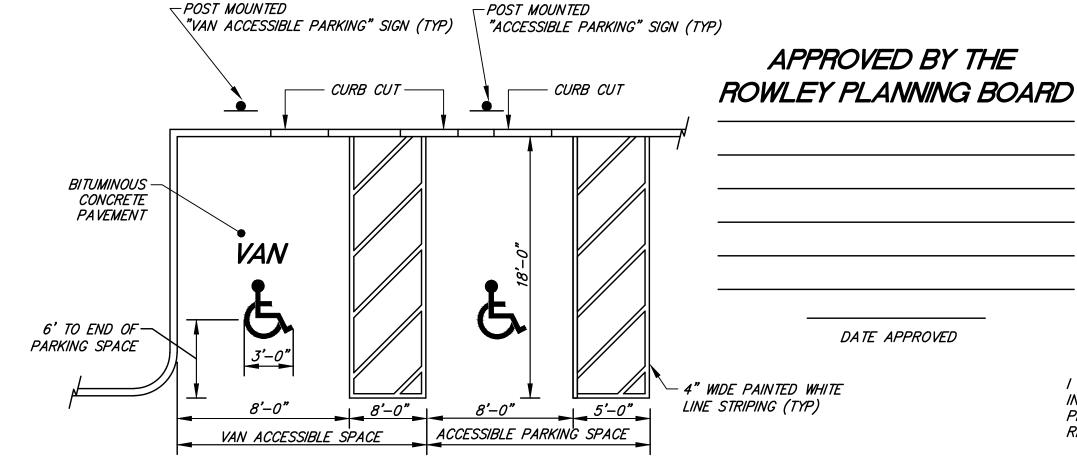












1. MAXIMUM SLOPE 2% IN ANY DIRECTION.

2. LOCATE SIGN WITHIN 10 FT OF ACCESSIBLE SPACE.

DATE APPROVED " WIDE PAINTED WHITE LINE STRIPING (TYP)

GRADE

EXTRUDED-

CONCRETE BERM (1/2"± DENSE MIX

PER MHD

M3.11.03)

COMPACTED

BITUMINOUS

APPROVED BY THE

I DECLARE, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTRY OF DEEDS.

FOR REGISTRY OF DEEDS USE ONLY

DATE

DATE

FOR HANCOCK ASSOCIATES

CLERK OF THE TOWN OF ROWLEY, MASSACHUSETTS HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE ROWLEY PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND NO NOTICE OF APPEAL WAS RECEIVED IN THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

TOP COURSE

COURSE

I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN. (MASS. GEN. LAWS CHAPTER 41, SEC. 81-X).

PROFESSIONAL LAND SURVEYOR

\_6"x4", 8.5 LBS./L.F. STEEL "H" POST, 6'-3" LONG DETAIL "Y" "H" POST OR "C" POST

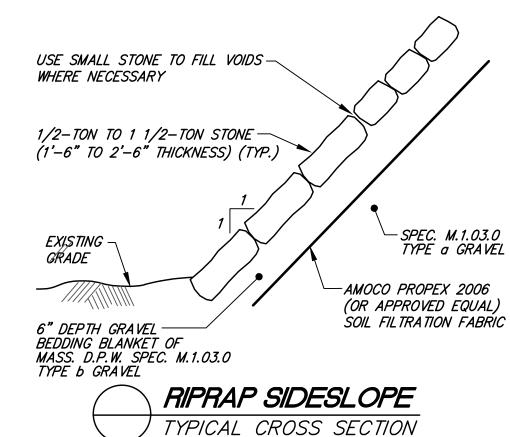
6"x4", 8.5 LBS./L.F. STEEL
"H" SECTION, 1'-2" LONG -BITUMINOUS CONCRETE BERM <u>SECTION "Z"</u> DETAIL "X" TYPE "A" BERM ALONG EDGE OF SHOULDER

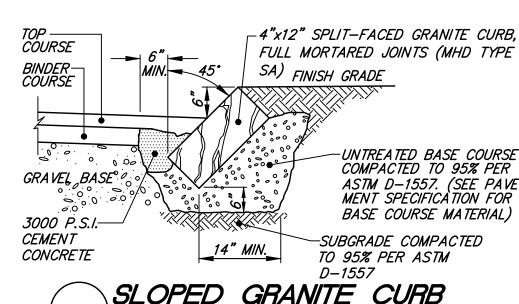
3. PROVIDE AN ACCESSIBLE CURB CUT AT EACH ACCESS AISLE BETWEEN ACCESSIBLE SPACES.

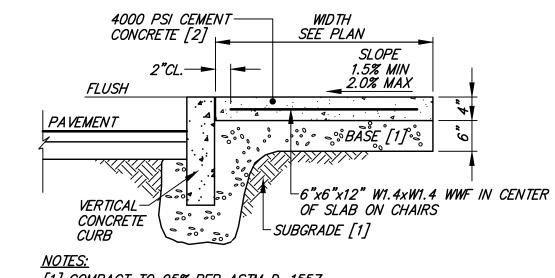
ACCESSIBLE PARKING STALL DETAIL

NOT TO SCALE









CAPE COD BERM

CROSS SECTION NOT TO SCALE

[1] COMPACT TO 95% PER ASTM D-1557 [2] CONTROL JOINT EVERY 5 LF, EXPANSION JOINT EVERY 50 LF.

CEMENT CONCRETE WALK

CROSS SECTION NOT TO SCALE

### **PERMIT** SITE PLAN

Rowley, Massachusetts

ASSESSORS: PARCEL IDs 7-10-5-1 7-10-5-8 7-10-8

7-14

PREPARED FOR:

### GATEWAY II TRUST OF 1997

239 Western Ave. Essex, MA 01929

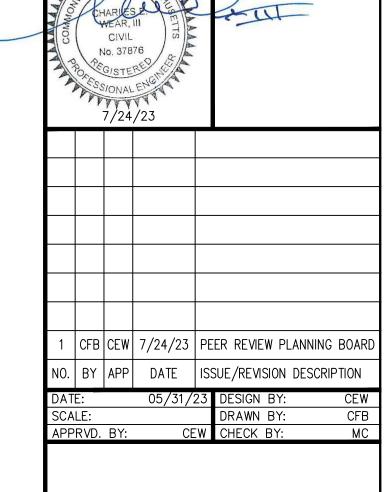
### **HANCOCK ASSOCIATES**

Civil Engineers

Land Surveyors

Wetland Scientists

185 CENTRE STREET, DANVERS, MA 01923 VOICE (978) 777-3050, FAX (978) 774-7816 `WWW.HANCOCKASSOCIATES.COM



**DETAILS** SHEET

PLOT DATE: Jul 24, 2023 1:32 pm PATH: F:\Civil 3D Projects\26696-Gateway-Rowley\Eng\DWG\

DWG: *26696psp-up*, \_AYOUT: *DET* SHEET: 6 OF ' 26696 PROJECT NO.:

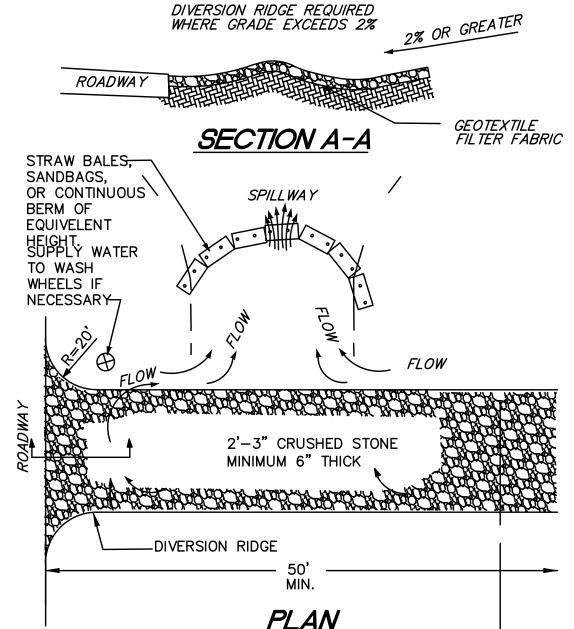
-TRUNCATED DOMES (TYP.) -LEVEL AREA 1.5% CROSS-SLOPE FOR DRAINAGE -BOTTOM OF RAMP FLUSH WITH GUTTER HANDICAP RAMP NOT TO SCALE

APPLY FULL COVERAGE— **COURSE THICKNESS** TACK COAT AT JOINT COMPACTION REQUIREMENT 1 1/2" TOP --TEST PER AASHTO T166. SEE NOTE [1] 2 1/2" BINDER-— TEST PER AASHTO T166. SEE NOTE [1] 2" BINDER 95%, TEST PER ASTM D-1557 6" BASE -95%, TEST PER ASTM D-1557 6" SUBBASE 95%, TEST PER ASTM D-1557 SUITABLE SUBGRADE -[1] COMPACT TO TEST AVERAGE OF 95%, ±2.5%

MA TERIAL	SPECIFICA TION	MAXIMUM AGGREGATE OR PARTICLE SIZE (IN.)
TOP - BITUMINOUS CONCRETE	MHD M3.11.03 CLASS I, TYPE I—1	1/2
BINDER- BITUMINOUS CONCRETE	MHD M3.11.03 CLASS I, TYPE I—1	1
BASE — DENSE GRADED CRUSHED STONE	MHD M2.01.7	1 1/2
SUBBASE – GRAVEL BORROW	MHD M1.03.0 TYPE C	2

### BITUMINOUS CONCRETE PAVEMENT

TYPICAL CROSS SECTION NOT TO SCALE



1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY WHEELS SHALL BE CLEANED PRIOPR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

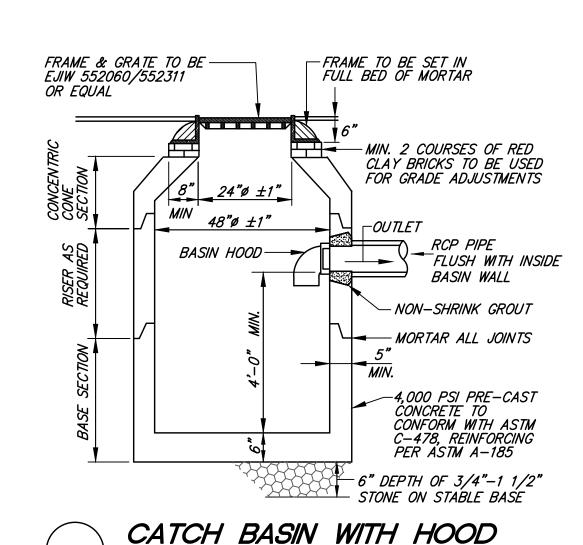
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT NOT TO SCALE

SLOPED GRANITE CURB CROSS SECTION NOT TO SCALE

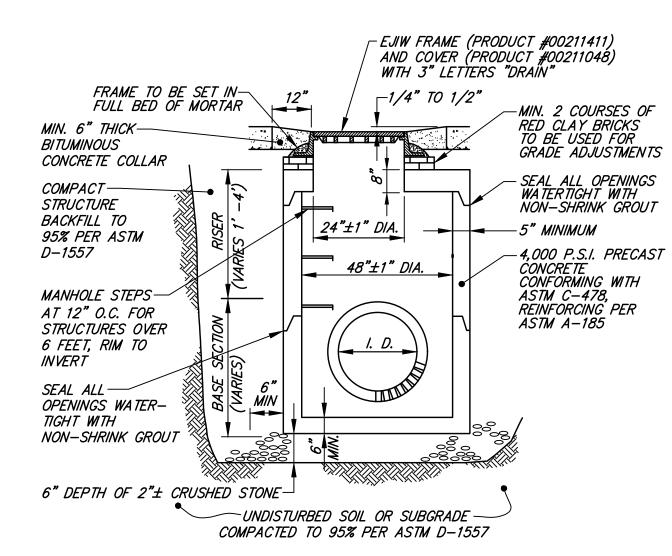
NOT TO SCALE

DEPICTED FOR SCHEMATIC PURPOSE ONLY. DESIGN TO BE BY STRUCTURAL ENGINEER.

-UNTREATED BASE COURSE COMPACTED TO 95% PER ASTM D-1557. (SEE PAVE-MENT SPECIFICATION FOR

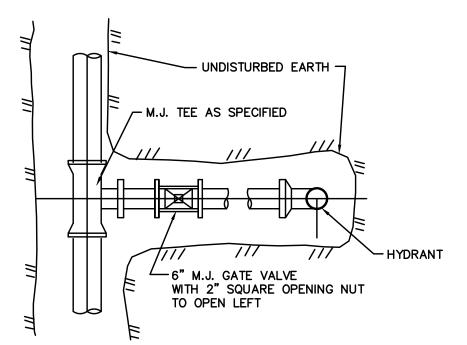


'TYPICAL CROSS SECTION — NOT TO SCALE

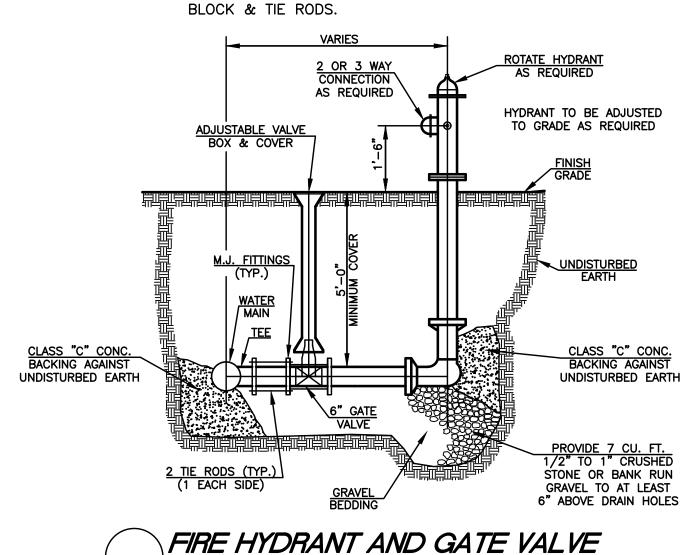


NOTE: CONICAL TOP MAY ALSO BE USED

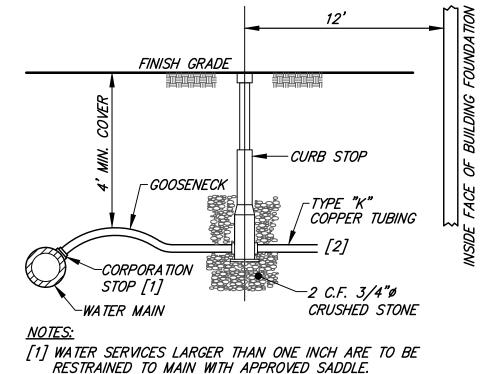
DRAIN MANHOLE TYPICAL CROSS SECTION NOT TO SCALE



USE MEGA-LUG RESTRAINTS IN LIEU OF THRUST



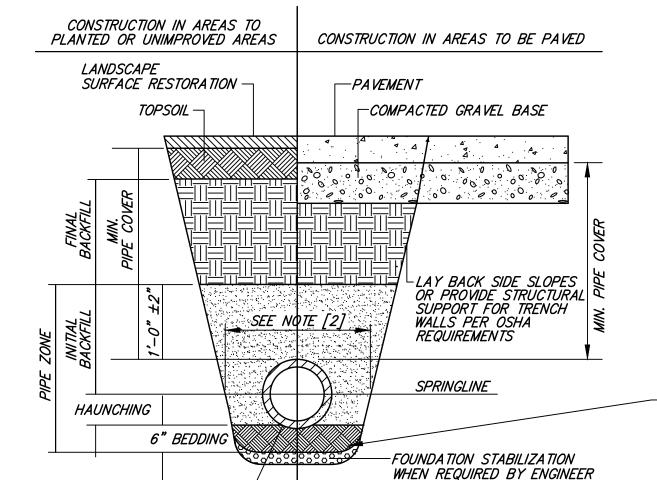
NOT TO SCALE



RESTRAINED TO MAIN WITH APPROVED SADDLE. [2] COORDINATE BUILDING CONNECTION WITH PLUMBING DRAWINGS.

> WATER SERVICE TYPICAL PROFILE NOT TO SCALE

## APPROVED BY THE



SHAPE BEDDING BY HAND— TO FIT BOTTOM OF PIPE; INSTALL

PIPE ON STABLE BEDDING WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE BARREL.

FOUNDATION, BEDDI	NG, & BACKFI	LL MATERIALS	<u>NOTES:</u>  [1] PLACE 3/4"± GRADED
PIPE MATERIAL	HDP, PVC	PC DI GRANULAR BACK	GRANULAR BACKFILL AT OPTIMUM MOISTURE IN
FOUNDATION STABILIZATION	[6]	[6]	HORIZONTAL, 8"-DEEP, LOOSE LAYERS; COMPACT
BEDDING	[1]	[1]	TO 95% PER ASTM D-1557. [2] MINIMUM WIDTH OF TRENCH
HAUNCHING	[1]	[1]	MEASURED AT THE SPRINGLING OF THE PIPE, INCLUDING ANY
INITIAL BACKFILL	[1]	[1]	NECESSARY SHEATHING:
FINAL BACKFILL	[4]	[4]	PIPE 1.D.   WIDTH   LESS THAN 21"   O.D. + 12"
MIN. PIPE COVER	[5]	[5]	21" TO 42" O.D. + 24" GREATER THAN 42" O.D. + 30"

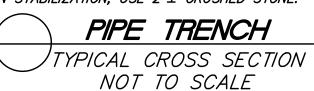
[3] INSTALL PIPE IN CENTER OF TRENCH.

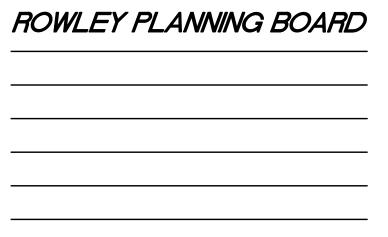
[4] IN PLANTED OR UNIMPROVED AREAS, USE ON—SITE EXCAVATED MATERIAL FOR FINAL BACKFILL. COMPACT TO 95% PER ASTM D-1557. IN PAVED AREAS, OBTAIN ENGINEER APROVAL OF ON-SITE EXCAVATED MATERIALS FOR USE AS FINAL BACKFILL.

[5] MINIMUM COVER OVER TOP OF PIPE:

		· · · <u>- ·</u>	
PIPE MATERIAL	HDP, PVC	RC, DI	
WA TER	<i>5'-0"</i>	<i>5'-0"</i>	
SEWER	4'-0"	4'-0"	
DRAIN	1'-6"	1'-0"	

[6] FOR FOUNDATION STABILIZATION, USE 2"± CRUSHED STONE.





DATE APPROVED

FOR PERFORATED DRAIN PIPES,

SAND BEDDING TO BE INSTALLED BENEATH FULL LENGTH OF PIPE,

TO THE DEPTH OF PARENT MATERIAL.

**PERMIT** SITE PLAN

Rowley, Massachusetts

ASSESSORS: PARCEL IDs 7-10-5-1 7-10-5-8 7-10-8 7-14

PREPARED FOR:

GATEWAY II **TRUST** OF 1997

> 239 Western Ave. Essex, MA 01929

I CERTIFY THAT THE PROPERTY LINES SHOWN ARE THE LINES DIVIDING EXISTING OWNERSHIPS AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW WAYS ARE SHOWN. (MASS. GEN. LAWS CHAPTER 41, SEC. 81-X).

DATE

FOR REGISTRY OF DEEDS USE ONLY

CLERK OF THE TOWN OF ROWLEY.

DATE

I DECLARE, TO THE BEST OF MY KNOWLEDGE,

REGULATIONS OF THE REGISTRY OF DEEDS.

FOR HANCOCK ASSOCIATES

MASSACHUSETTS HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS

AT THIS OFFICE AND NO NOTICE OF APPEAL WAS RECEIVED IN THE TWENTY

DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

PLAN BY THE ROWLEY PLANNING BOARD HAS BEEN RECEIVED AND RECORDED

INFORMATION AND BELIEF, THAT THIS PLAN WAS

PREPARED IN ACCORDANCE WITH THE RULES AND

PROFESSIONAL LAND SURVEYOR

**HANCOCK ASSOCIATES** 

Civil Engineers

Land Surveyors

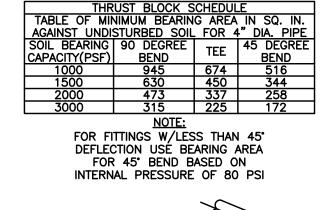
Wetland Scientists

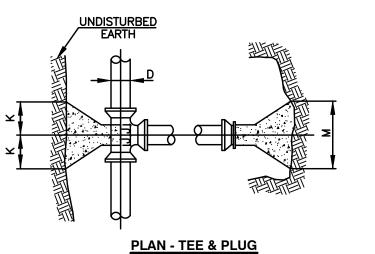
185 CENTRE STREET, DANVERS, MA 01923 VOICE (978) 777-3050, FAX (978) 774-7816 WWW.HANCOCKASSOCIATES.COM

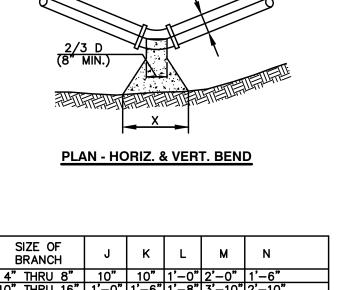
No. 37876

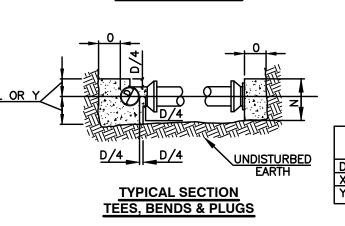
7/24/23

APPRVD. BY:









24"		1'-4"	2'-0"	2'-6"	5'-0"	3'-6"	
TEES & PLUGS							
90° & 45° BENDS 22-1/2 & 11-1/4					4		
4" TO 8" 10" TO 16" 24"				4" T	3 8" C	0" TO 16"	
1'-8"	3	<b>'-4"</b>	3'-6"	1'-	-4"	2'-0"	
1'-2" 1'-8" 2'-4"			1'-	∙0"	1'-2"		
BENDS							

PLOT DATE: Jul 24, 2023 1:33 pm PATH: F:\Civil 3D Projects\26696-Gateway-Rowley\Eng\DWG\

DWG: *26696psp-up* \_AYOUT: DET (2) SHEET: 7 OF <sup>-</sup>

26696

PROJECT NO .:

1 CFB CEW 7/24/23 PEER REVIEW PLANNING BOARI

**DETAILS** 

SHEET

NO. BY APP DATE ISSUE/REVISION DESCRIPTION

THRUST BLOCK DETAILS (NOT TO SCALE) CEMENT CONCRETE: 3,000 PSI AT 28 DAYS



OTHERWISE PLACE BEDDING ON

UNDISTURBED NATURAL SOIL