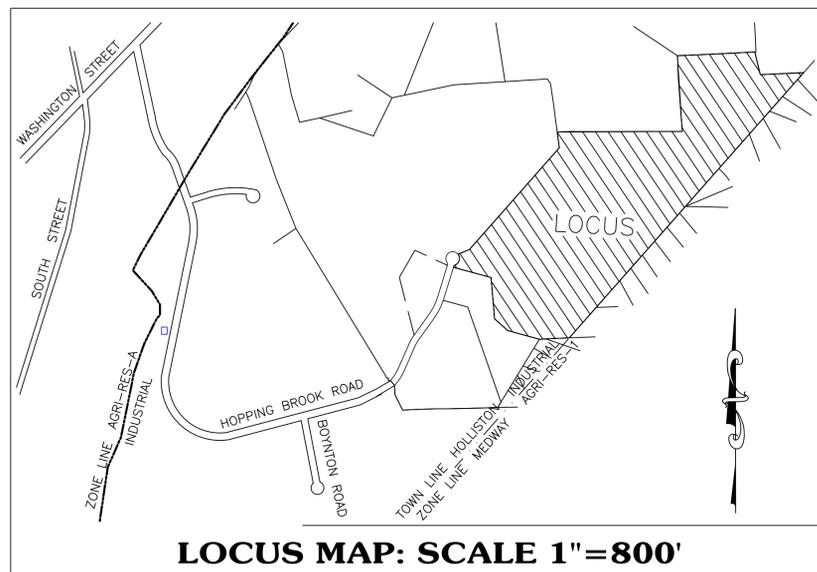


# 555 HOPPING BROOK ROAD A MODIFICATION OF THE DEFINITIVE SITE PLAN IN HOLLISTON, MASSACHUSETTS (MIDDLESEX COUNTY)

**LEGEND**

BIT CONC	BITUMINOUS CONCRETE
CB	CATCHBASIN
CB/PLUG	CONCRETE BOUND/PLUG
CC	CONCRETE CURB
CCB	CAPE COD BERM
CO	CLEAN OUT
CONC	CONCRETE
CONC	CONCRETE
CS	CURB STOP
CW	CROSSWALK
D	DRAINLINE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
FD	FOUNDATION DRAIN
FE	FLARED END
GAS	GAS LINE
GG	GAS GATE
GV	GATE VALVE
HC	HANDICAPPED RAMP
HCC	HAUNCHED CONCRETE CURB
HYD	HYDRANT
ID	INTERCEPTOR DRAIN
INV	INVERT
LP	LIGHT POLE
MH	MANHOLE
PV	POST INDICATOR VALVE
PPVC	PERFORATED POLY-VINYL-CHLORIDE
PVC	POLY-VINYL-CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
S	SEWER LINE
S	SIGN
SB	SPEED BUMP
SB/DH	STONE BOUND/DRILLHOLE
SGC	SLOPED GRANITE CURB
SMH	SEWER MANHOLE
SWBL	SINGLE WHITE BROKEN LINE
WSSL	SINGLE WHITE SOLID LINE
TD	TRENCH DRAIN
TE	TELEPHONE LINE
TMH	TELEPHONE MANHOLE
TRANS	TRANSFORMER
TS	TRANSITION STONE
UD	UNDERDRAIN
VGC	VERTICAL GRANITE CURB
W	WATER LINE
WG	WATER GATE
⊕	BORING
⊕	TEST PIT
W.S.	WETLAND FLAG
ECB	EROSION CONTROL BARRIER
T24	24" TREE
⊠ (TBS)	STONE BOUND/DRILL HOLE TO BE SET

SHEET LIST	
SHEET	TITLE
1	COVER
2	LAYOUT & MATERIALS (80 SCALE)
3	LAYOUT & MATERIALS (NW 40 SCALE)
4	LAYOUT & MATERIALS (SW 40 SCALE)
5	LAYOUT & MATERIALS (NE 40 SCALE)
6	LAYOUT & MATERIALS (SE 40 SCALE)
7	UTILITIES (80 SCALE)
8	GRADING & DRAINAGE (80 SCALE)
9	GRADING & UTILITIES (NW 40 SCALE)
10	GRADING & UTILITIES (SW 40 SCALE)
11	GRADING & UTILITIES (NE 40 SCALE)
12	GRADING & UTILITIES (SE 40 SCALE)
13	GRADING & UTILITIES (OFFSITE BASIN - ONSITE BASIN)
14	PROFILE (DCB-1 TO DMH-4--555 SOUTH SIDE)
15	PROFILE (555 SOUTH SIDE)
16	PROFILE (555 WEST SIDE--DCB)
17	PROFILE (RF-1 TO RF-4--RF-10 TO RF-14)
18	PROFILE (555 WEST SIDE)
19	PROFILE (555 WEST SIDE--DCB-6 TO DMH-23)
20	PROFILE (DCB-9 TO OUTLET-4)
21	PROFILE (CB-22 TO DMH-34--RF-17 TO OUTLET-5)
22	PROFILE (DCB-16 TO OUTLET-6)
23	PROFILE (CB-25 TO DMH-41--RF-19 TO OUTLET-7)
24	PROFILE (DCB-19 TO DMH-43)
25	STORMWATER SYSTEM DATA
26	LANDSCAPE PLAN
27	LIGHTING
28	CONSTRUCTION DETAILS
29	STORMWATER DETAILS
30	STORMWATER DETAILS
31	STORMWATER DETAILS
31A	STORMWATER DETAILS
32	LANDSCAPE & LIGHTING DETAILS
33	STORMWATER POLLUTION PREVENTION PLAN
34	EXISTING CONDITIONS PLAN
35	ELEVATION PLAN (9-24-19)
36	FLOOR PLAN (9-25-19)



**NOVEMBER 16, 2019**

**OWNER/APPLICANT:**

**CRG INTEGRATED REAL ESTATE SOLUTIONS  
200 BARR HARBOR DRIVE  
CONSHOHOCKEN, PA 19249**

**REVISED: FEBRUARY 5, 2020**

**MARCH 2, 2020  
FEBRUARY 5, 2021  
APRIL 13, 2021  
MAY 11, 2021**

**ENGINEER:**

**ENGINEERING DESIGN CONSULTANTS,  
INC.  
32 TURNPIKE ROAD  
SOUTHBOROUGH, MASSACHUSETTS**

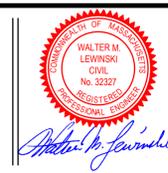
**ZONING**

ZONING DISTRICT: IND	REQUIRED	PROPOSED
MIN. FRONTAGE:	100 FT.	150.0 FT.
MIN. AREA:	20,000 S.F.	3,458,910±S.F.
MAX. LOT COVERAGE:	40%	800,420 S.F. - 23.1%
MAX. HEIGHT:	40 FT. 3 ST.	<40 FT.
LOT DEPTH:	150 FT.	>150 FT.
F.A.R.	0.5	0.23
SETBACKS:		
FRONT:	30 FT.	415.2 FT.
SIDE:	20 FT.	LT-200.2 FT. RT-355.5 FT.
REAR:	30 FT.	1593.6 FT.
PARKING:	1 SP/13 EMP.	403 SPACES (14 HC)

"I ATTEST THAT THE PLANNING BOARD VOTED \_\_\_\_ TO \_\_\_\_ TO APPROVE THIS SPECIAL PERMIT/SITE PLAN ON \_\_\_\_\_ (DATE)  
\_\_\_\_\_(SIGNATURE OF PLANNING BOARD MEMBER)"

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REV #	DATE	DESCRIPTION
5	5/11/21	PEER REVIEW COMMENTS
4	3/17/21	PEER REVIEW COMMENTS
3	2/5/21	ISSUED FOR REVIEW
2	3/2/20	PEER REVIEW COMMENTS
1	2/5/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW

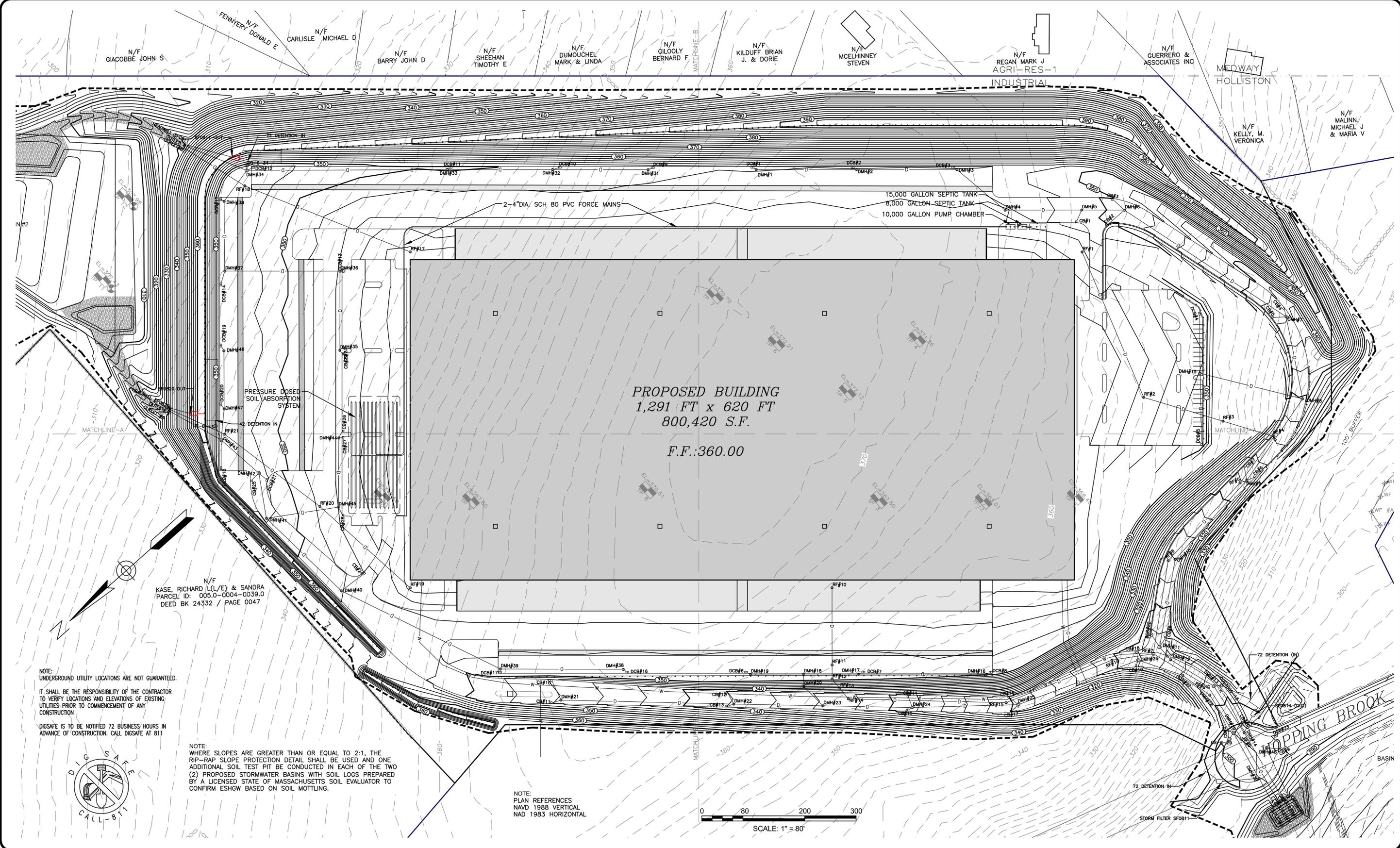


**COVER**  
**555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS**  
APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS**  
200 Barr Harbor Drive  
Conshohocken, PA 19248

PROJECT:  
**555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS 01746  
(MIDDLESEX COUNTY)**

PREPARED BY:  
**EDC Engineering Design Consultants, Inc.**  
Turnpike Road  
Southborough, Massachusetts  
ph:(508)480-0225 fax:(800)832-5781

FILE NO: 3724 COVER SHEET  
COVER  
DATE: **NOVEMBER 16, 2019**  
DEFINITIVE PLAN NO.:  
**1 of 37**  
**1**



PROPOSED BUILDING  
1,291 FT x 620 FT  
800,420 S.F.

F.F.:360.00

N/F  
KASE, RICHARD L(L/E) & SANDRA  
PARCEL ID: 005.0-0004-0039.0  
DEED BK 24332 / PAGE 0047

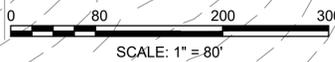
NOTE:  
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

DISSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DISSAFE AT 811

NOTE:  
WHERE SLOPES ARE GREATER THAN OR EQUAL TO 2:1, THE RIP-RAP SLOPE PROTECTION DETAIL SHALL BE USED AND ONE ADDITIONAL SOIL TEST PIT BE CONDUCTED IN EACH OF THE TWO (2) PROPOSED STORMWATER BASINS WITH SOIL LOGS PREPARED BY A LICENSED STATE OF MASSACHUSETTS SOIL EVALUATOR TO CONFIRM ESHGW BASED ON SOIL MOTTILING.

NOTE:  
PLAN REFERENCES  
NAVD 1988 VERTICAL  
NAD 1983 HORIZONTAL



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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

REV#	DATE	DESCRIPTION
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2	1/2/20	PEER REVIEW COMMENTS
1	3/2/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW



PREPARED BY:  
**Walter M. Lewinski**  
Engineering Design Consultants, Inc.  
32 Tumpike Road  
Southborough, Massachusetts  
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)

TITLE:  
GRADING & UTILITIES  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
OWNER/APPLICANT:  
CRG INTEGRATED REAL ESTATE SOLUTIONS  
200 Barr Harbor Drive  
Conshohocken, PA 19248

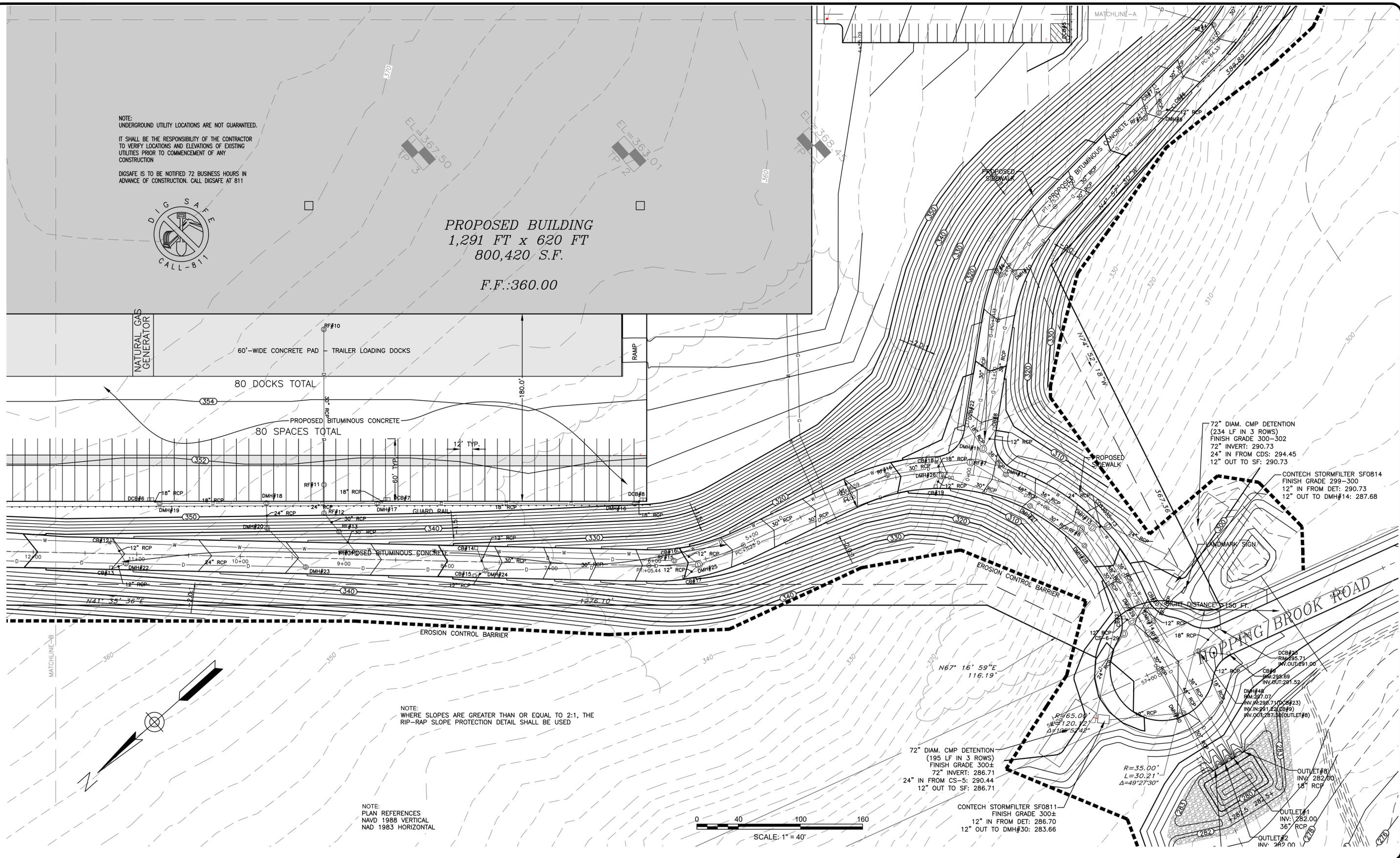
FILE NO: 3724 GRADING DRAINAGE - 80SCALE  
G&U (6)  
DATE: NOVEMBER 16, 2019  
DEFINITE PLAN NO:  
8 of 37  
8



NOTE:  
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.  
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UTILITIES PRIOR TO COMMENCEMENT OF ANY  
CONSTRUCTION  
DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN  
ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



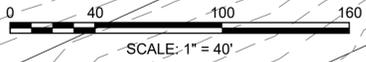
**PROPOSED BUILDING**  
1,291 FT x 620 FT  
800,420 S.F.  
F.F.:360.00



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NOTE:  
WHERE SLOPES ARE GREATER THAN OR EQUAL TO 2:1, THE  
RIP-RAP SLOPE PROTECTION DETAIL SHALL BE USED

NOTE:  
PLAN REFERENCES  
NAVD 1988 VERTICAL  
NAD 1983 HORIZONTAL



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0	11/16/19	ISSUED FOR REVIEW

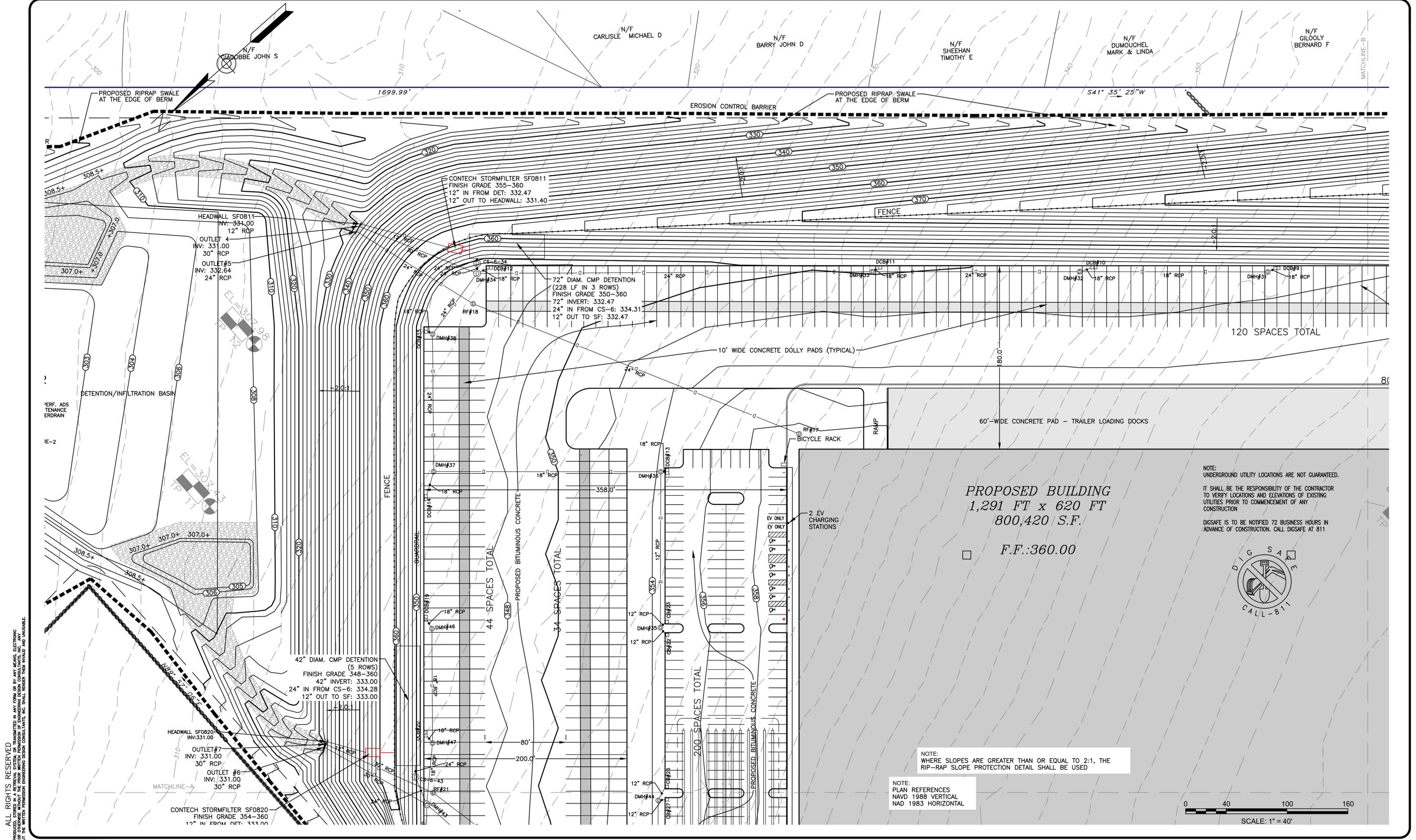


PREPARED BY:  
**Engineering Design Consultants, Inc.**  
32 Turnpike Road  
Southborough, Massachusetts  
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:  
**555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

TITLE:  
**GRADING & UTILITIES  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS**  
OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
200 Barr Harbor Drive  
Conshohocken, PA 19248**

FILE NO: 3724 GRADING DRAINAGE G&U(1)  
DATE: NOVEMBER 16, 2019  
DEFINITE PLAN NO.:  
**10 of 37**  
**10**



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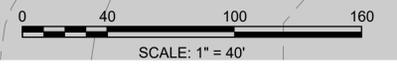
NOTE:  
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 DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



**PROPOSED BUILDING**  
 1,291 FT x 620 FT  
 800,420 S.F.  
 F.F.:360.00

NOTE:  
 WHERE SLOPES ARE GREATER THAN OR EQUAL TO 2:1, THE RIP-RAP SLOPE PROTECTION DETAIL SHALL BE USED

NOTE:  
 PLAN REFERENCES  
 NAVD 1988 VERTICAL  
 NAD 1983 HORIZONTAL



REV	DATE	DESCRIPTION
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0	11/16/19	ISSUED FOR REVIEW

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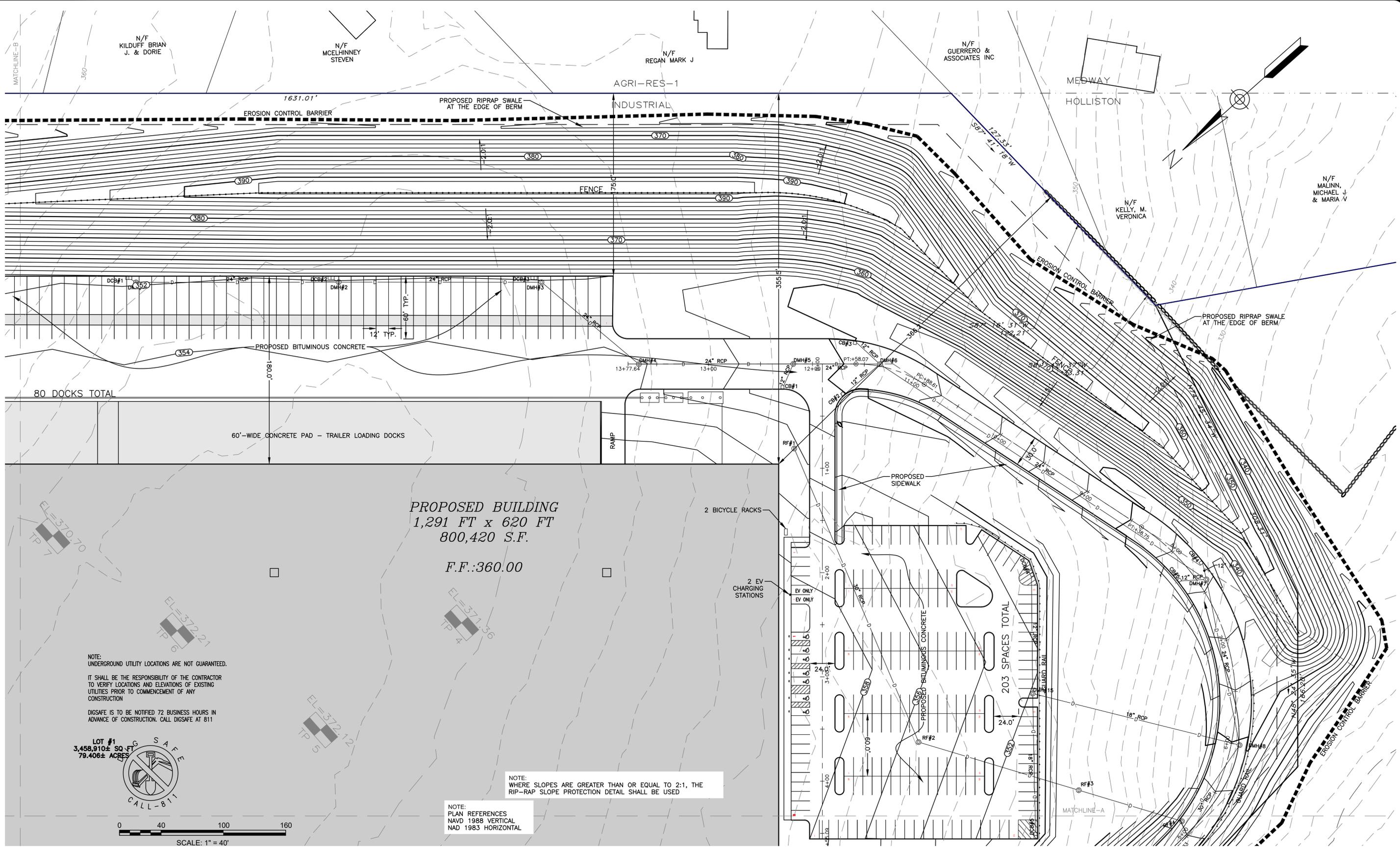


PREPARED BY:  
**Engineering Design Consultants, Inc.**  
 32 Turnpike Road  
 Southborough, Massachusetts  
 ph:(508) 480-0225 fax:(800)832-5781

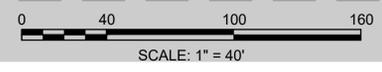
PROJECT:  
**555 HOPPING BROOK ROAD**  
**HOLLISTON, MASSACHUSETTS**  
**(MIDDLESEX COUNTY)**

TITLE:  
**GRADING & UTILITIES**  
**555 HOPPING BROOK ROAD**  
**HOLLISTON, MASSACHUSETTS**  
 OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS**  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248

FILE NO: 3724 GRADING DRAINAGE  
 G&U (4)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO.:  
**11 of 37**  
**11**



NOTE:  
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NAD 1983 HORIZONTAL

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1	2/5/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW



PREPARED BY:  
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Southborough, Massachusetts  
ph:(508) 480-0225 fax:(800)832-5781

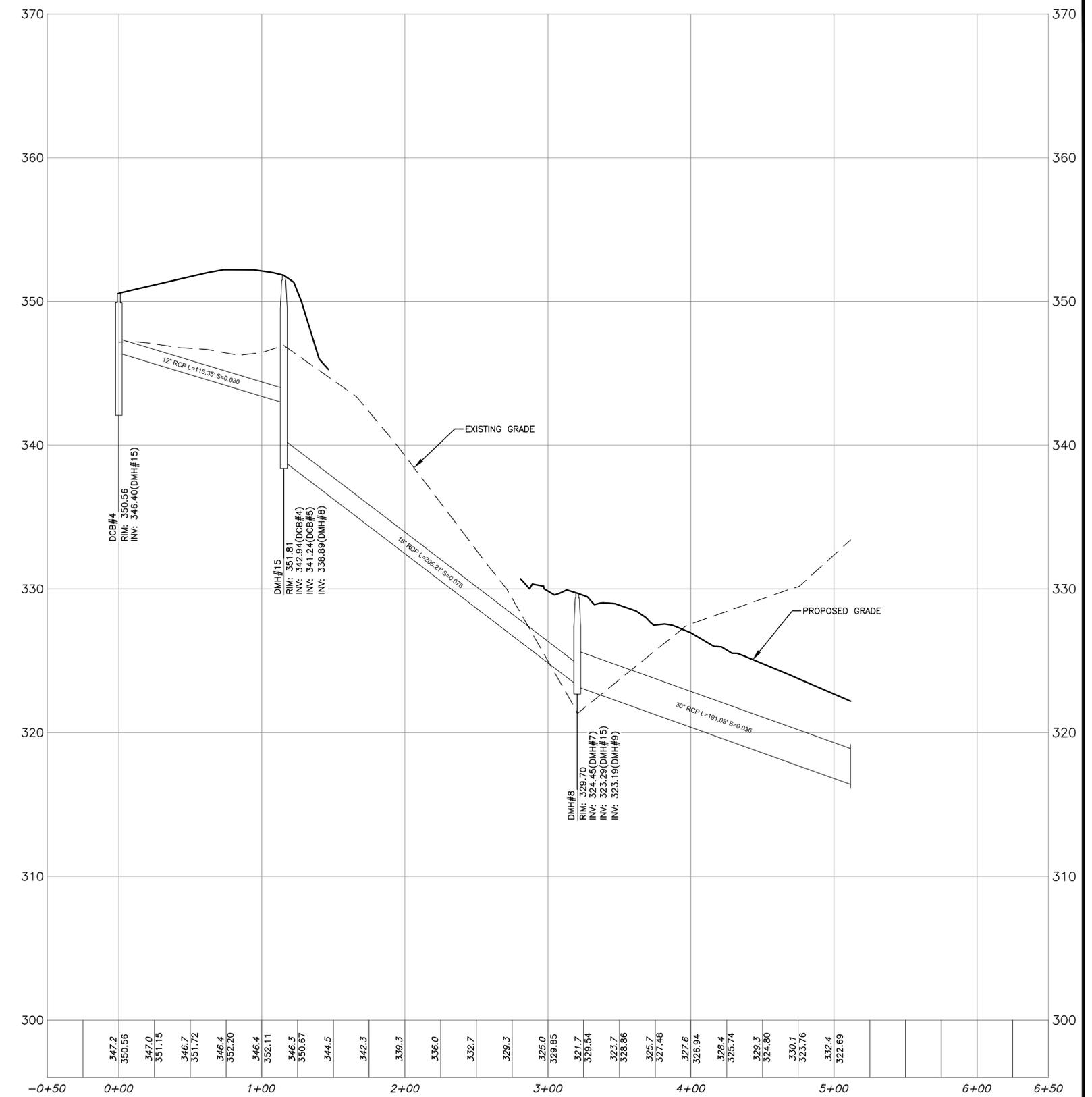
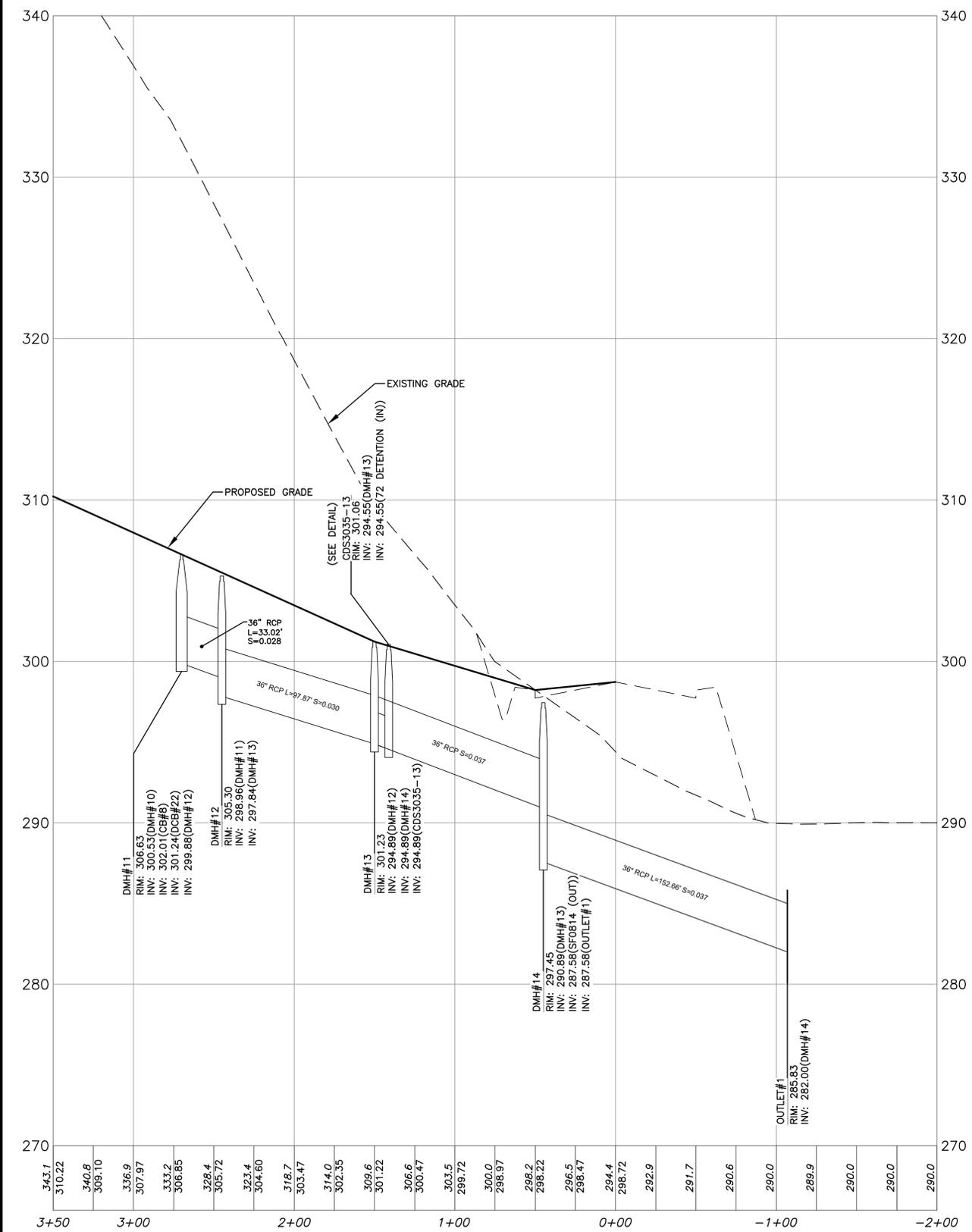
PROJECT:  
**555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

TITLE:  
**GRADING & UTILITIES  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS**  
OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
200 Barr Harbor Drive  
Conshohocken, PA 19248**

FILE NO: 3724 GRADING DRAINAGE  
G&D (2)  
DATE: NOVEMBER 16, 2019  
DEFINITE PLAN NO.:  
**12 of 37**  
**12**



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NOTE:  
 PLAN REFERENCES  
 NAVD 1988 VERTICAL  
 NAD 1983 HORIZONTAL

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 Southborough, Massachusetts  
 ph:(508) 480-0225 fax:(800)832-5781

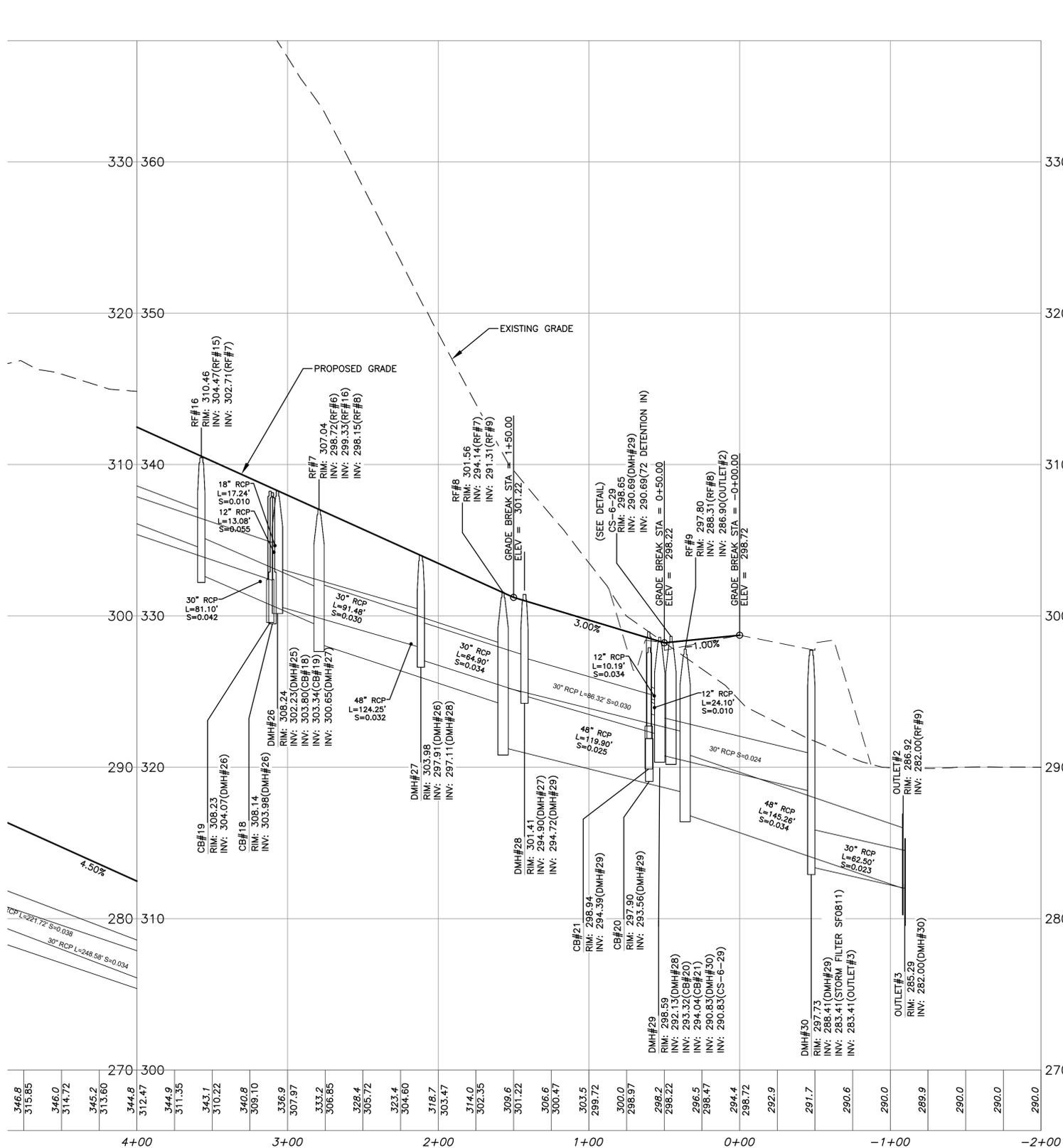
PROJECT:  
**555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)**

TITLE:  
**PROFILES  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS**

OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248**

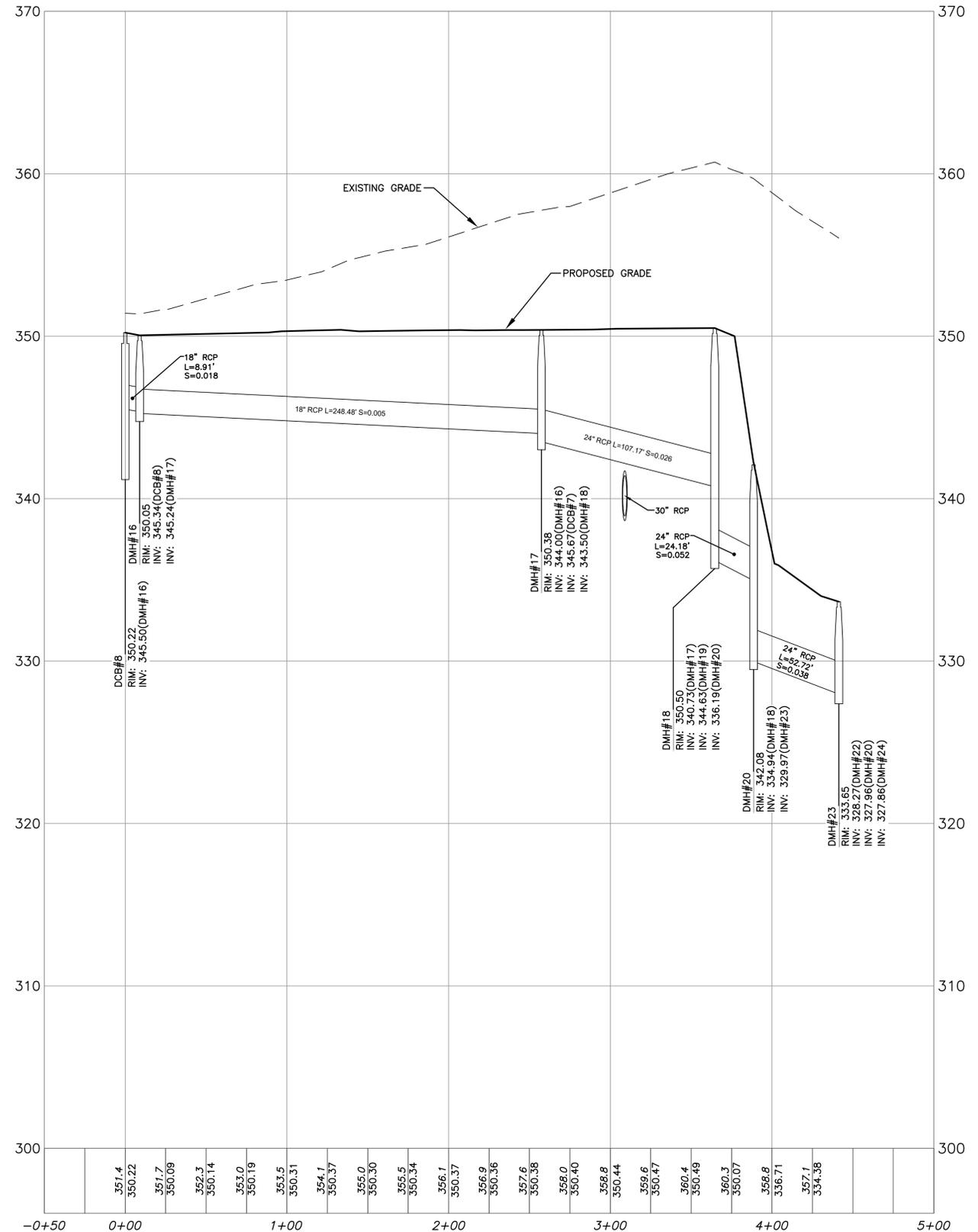
FILE NO: 3724 GRADING DRAINAGE  
 PROF(3)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO:  
**16 of 37**  
**16**

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555 WEST DR  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

NOTE:  
 PLAN REFERENCES  
 NAVD 1988 VERTICAL  
 NAD 1983 HORIZONTAL



DCB#6 TO DMH#23  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

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1	1/2/20	PEER REVIEW COMMENTS
0	11/6/19	ISSUED FOR REVIEW

DESIGNED BY: WML  
 CHECKED BY: PSB  
 APPROVED BY: PSB



PREPARED BY:  
**Engineering Design Consultants, Inc.**  
 32 Turnpike Road  
 Southborough, Massachusetts  
 ph: (508) 480-0225 fax: (800) 832-5781

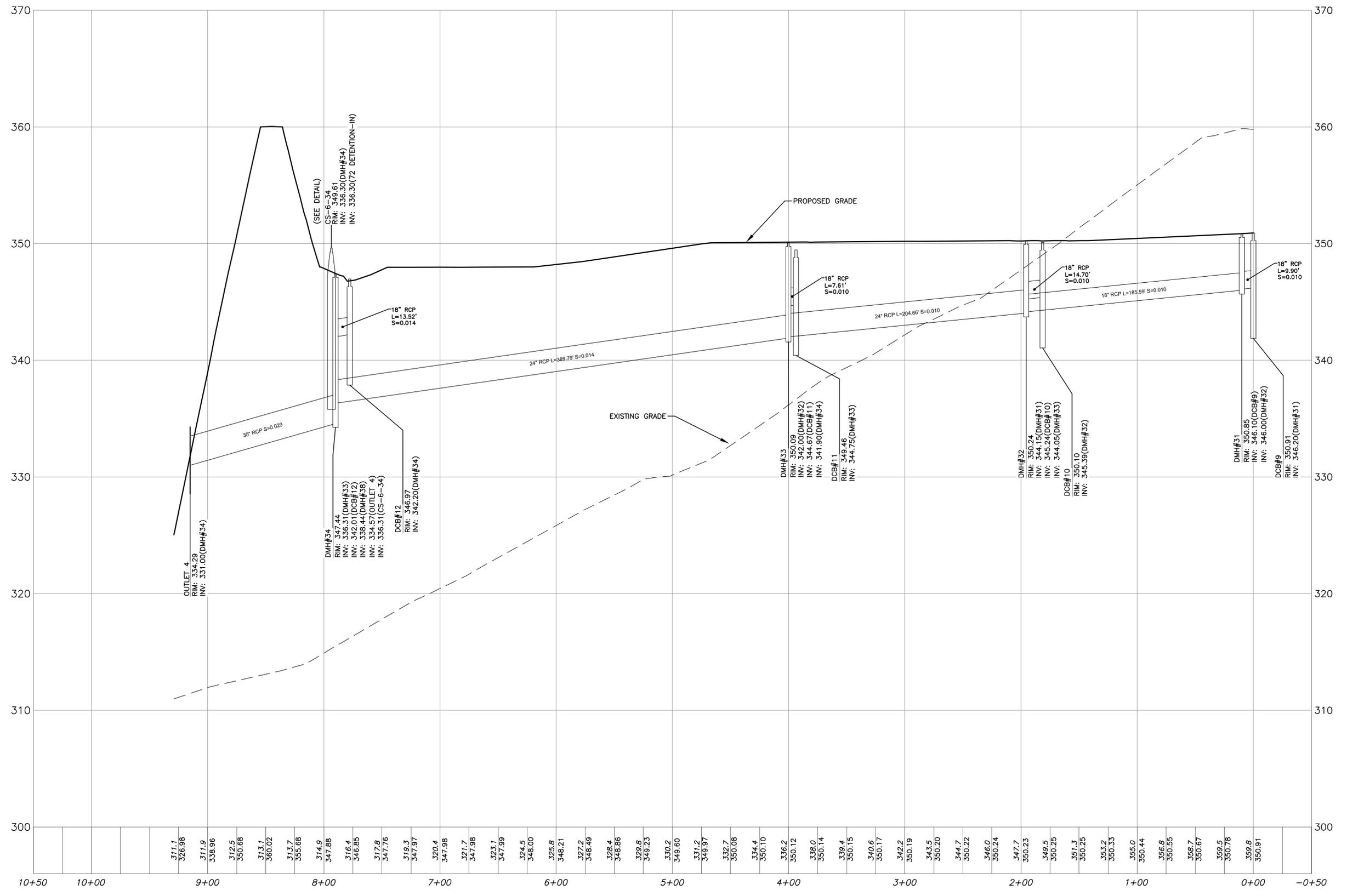
PROJECT:  
**555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)**

TITLE:  
**PROFILES  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS**

OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248**

FILE NO: 3724 GRADING DRAINAGE  
 PROF(6)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO.:  
**19 of 37**  
**19**

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DCB#9 TO OUTLET 4  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

NOTE:  
 PLAN REFERENCES  
 NAVD 1988 VERTICAL  
 NAD 1983 HORIZONTAL

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REV	DATE	DESCRIPTION
5	5/11/21	PEER REVIEW COMMENTS
4	4/13/21	PEER REVIEW COMMENTS
3	2/5/21	ISSUED FOR REVIEW
2	3/2/20	PEER REVIEW COMMENTS
1	5/2/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW



PREPARED BY:  
**Engineering Design Consultants, Inc.**  
 32 Turnpike Road  
 Southborough, Massachusetts  
 ph:(508) 480-0225 fax:(800)832-5781

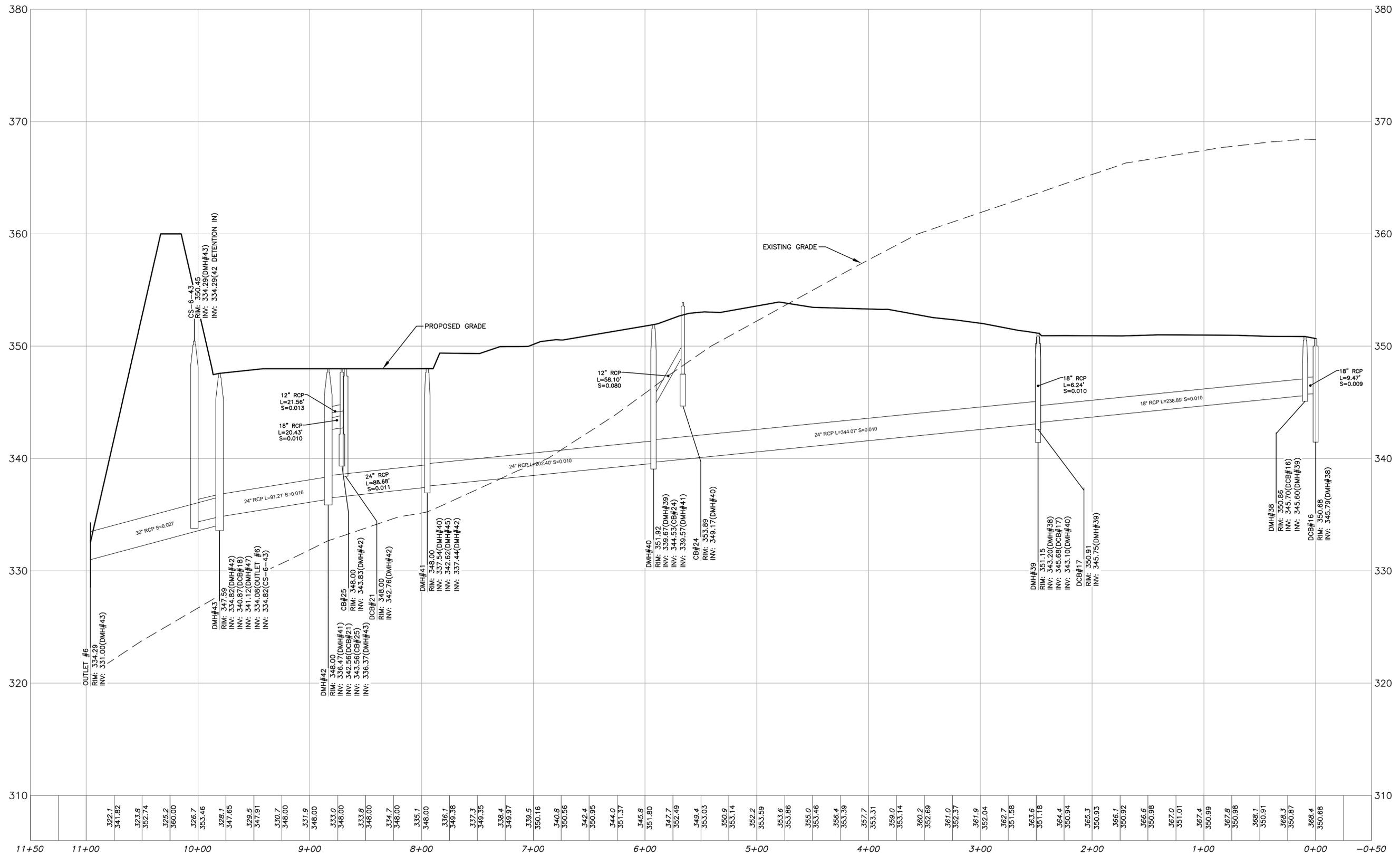
PROJECT:  
**555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)**

TITLE:  
**PROFILES  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS**

OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248**

FILE NO: 3724 GRADING DRAINAGE  
 PROF(7)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO.:  
**20 of 37**  
**20**

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NOTE:  
 PLAN REFERENCES  
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 NAD 1983 HORIZONTAL

DCB#16 TO OUTLET#6  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

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3	2/5/21	ISSUED FOR REVIEW
2	3/2/20	PEER REVIEW COMMENTS
1	5/2/20	PEER REVIEW COMMENTS
0	11/6/19	ISSUED FOR REVIEW



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**Engineering Design Consultants, Inc.**  
 32 Turnpike Road  
 Southborough, Massachusetts  
 ph: (508) 480-0225 fax: (800) 832-5781

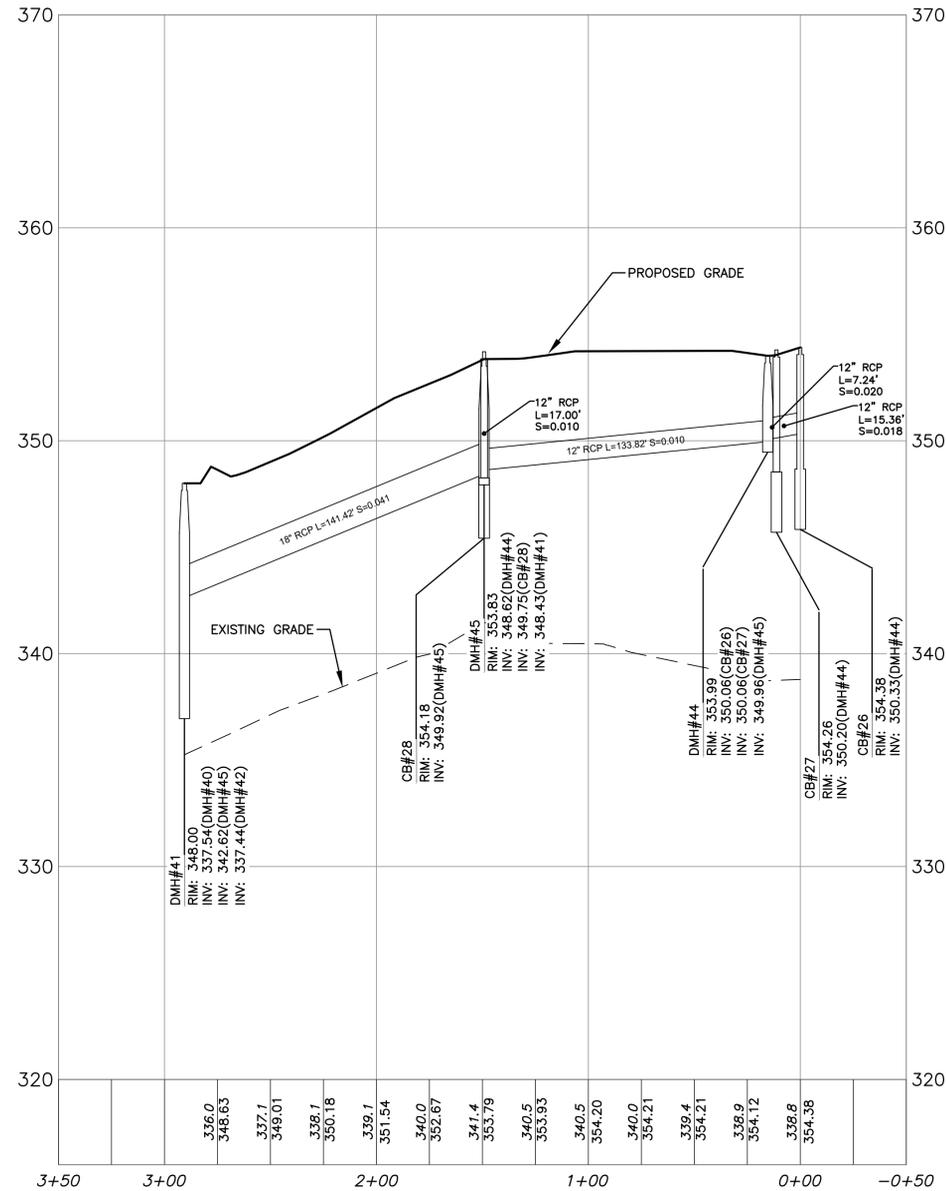
PROJECT:  
**PROFILES**  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)

TITLE:  
**PROFILES**  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS

OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS**  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248

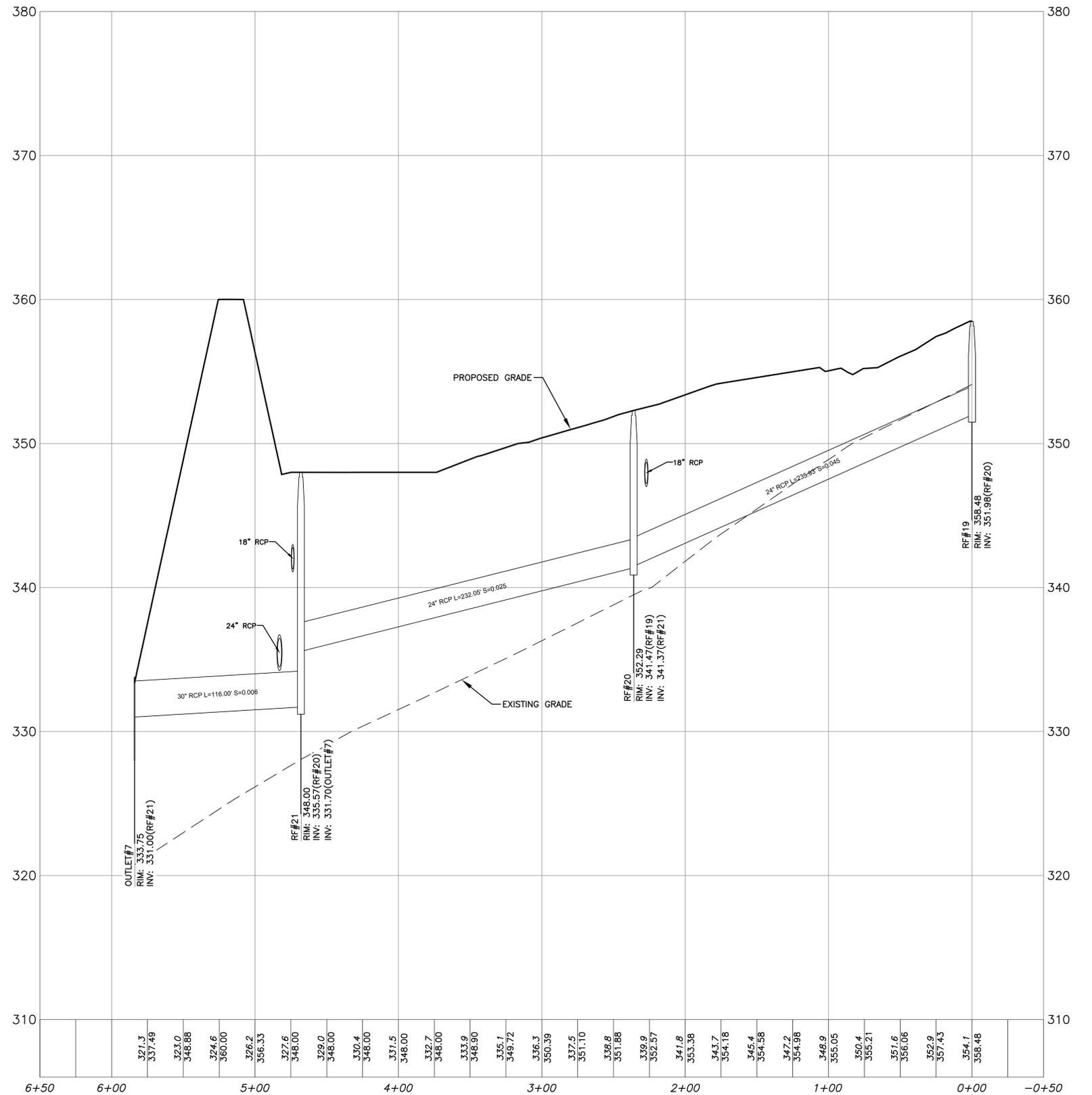
FILE NO: 3724 GRADING DRAINAGE  
 PROF(9)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO.:  
**22 of 37**  
**22**

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**CB#25 TO DMH#41**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

NOTE:  
 PLAN REFERENCES  
 NAVD 1988 VERTICAL  
 NAD 1983 HORIZONTAL



**RF#19 TO OUTLET#7**  
 Horizontal Scale: 1" = 40'  
 Vertical Scale: 1" = 4'

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REV	DATE	DESCRIPTION
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1	1/5/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW

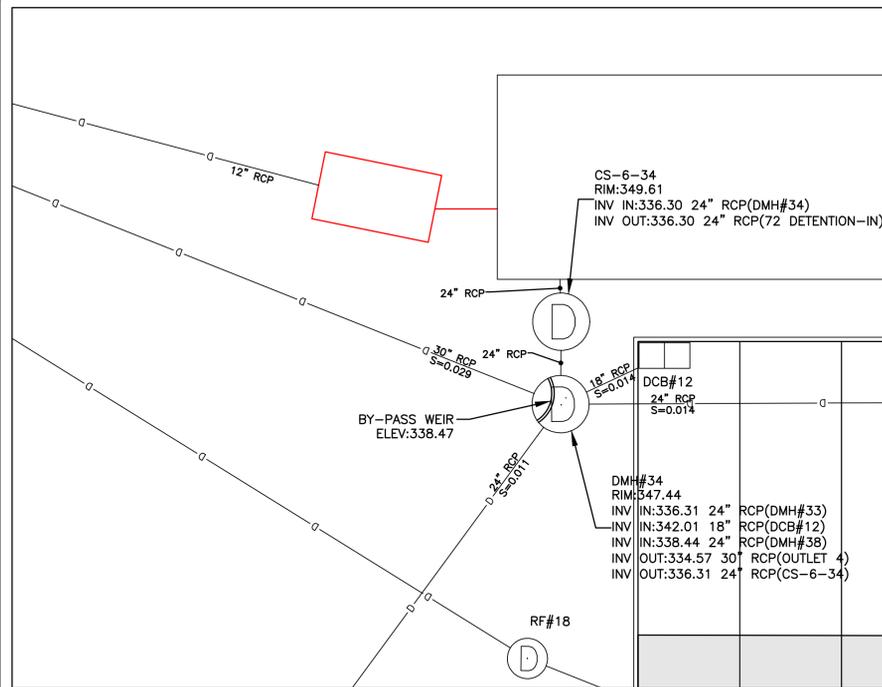


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 Southborough, Massachusetts  
 ph:(508) 480-0225 fax:(800)832-5781

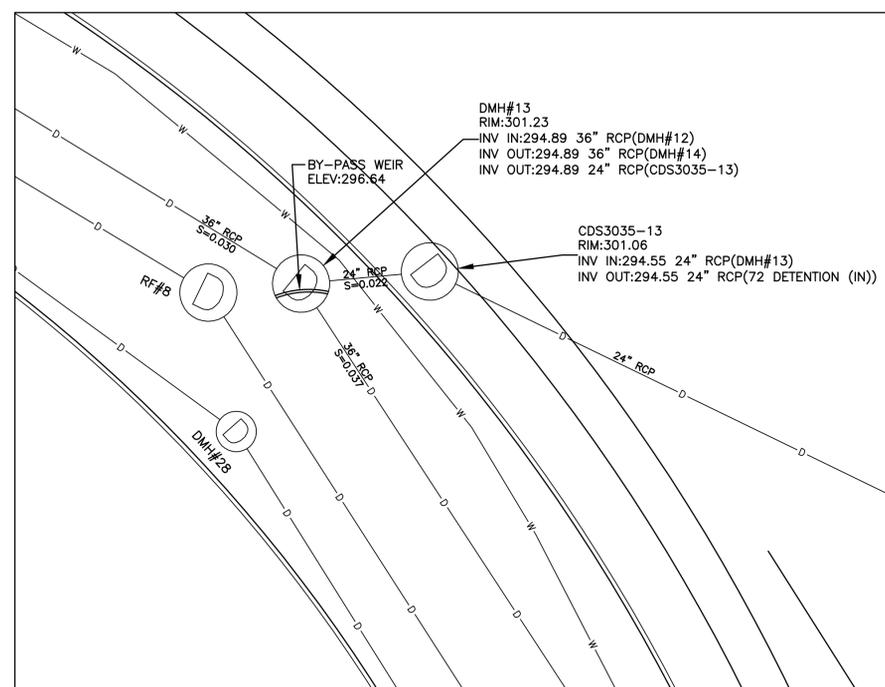
PROJECT:  
**555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)**

TITLE:  
**PROFILES**  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS**  
 200 Barr Harbor Drive  
 Conshohocken, PA 19248

FILE NO: 3724 GRADING DRAINAGE  
 PROF(10)  
 DATE: NOVEMBER 16, 2019  
 DEFINITIVE PLAN NO.:  
**23 of 37**  
**23**



CONTECH CS-6 WITH BYPASS DETAIL(DMH#34)  
SCALE: 1"=10'



CONTECH CDS3035 WITH BYPASS DETAIL(DMH#13)  
SCALE: 1"=10'

**CDS3035-6-C DESIGN NOTES**

CDS3035-6-C RATED TREATMENT CAPACITY IS 5.6 CFS, OR PER LOCAL REGULATIONS. THE STANDARD CDS3035-6-C CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

**CONFIGURATION DESCRIPTION**

GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/S)	
PEAK FLOW RATE (CFS OR L/S)	
RETURN PERIOD OF PEAK FLOW (YRS)	
SCREEN APERTURE (2000 OR 4750)	
PIPE DATA	
INLET PIPE 1	
INLET PIPE 2	
OUTLET PIPE	
RIM ELEVATION	
ANTI-FLOTATION BALLAST	
NOTES/SPECIAL REQUIREMENTS	
* PER ENGINEER OF RECORD	

**GENERAL NOTES**

- CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS SHOWN WITH UNITS ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE: [www.contechES.com](http://www.contechES.com)
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET ASHTO H20 AND CASTINGS SHALL MEET ASHTO M AND LOAD MATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

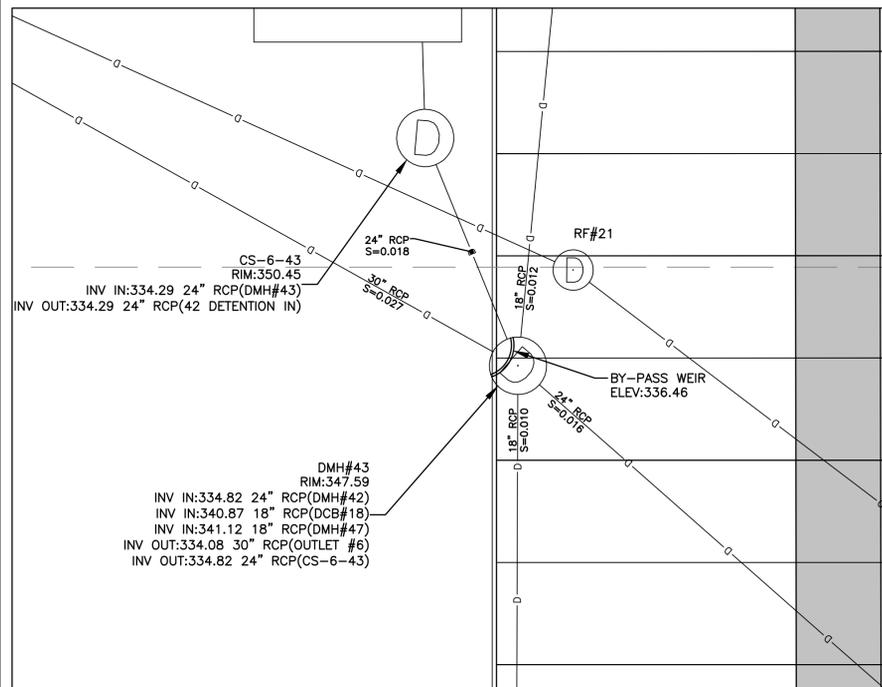
**INSTALLATION NOTES**

- ANY SUB-BASE BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

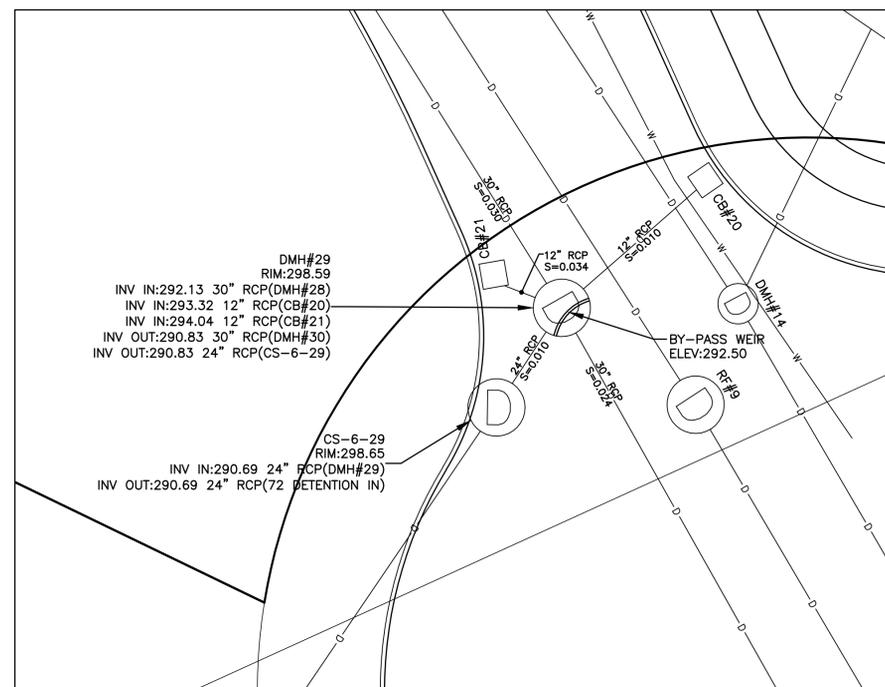
**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
903 Centre Plaza Dr., Suite 400, West Chester, OH 45389  
900.338.1122 513.645.7000 513.645.7892 FAX

CDS3035-6-C  
ONLINE CDS  
STANDARD DETAIL

CONTECH CDS3035 DETAIL  
NOT TO SCALE



CONTECH CS-6 WITH BYPASS DETAIL(DMH#43)  
SCALE: 1"=10'



CONTECH CDS2020 WITH BYPASS DETAIL(DMH#29)  
SCALE: 1"=10'

**CASCADE SEPARATOR DESIGN NOTES**

CS-6 RATED TREATMENT CAPACITY IS 5.6 CFS, OR PER LOCAL REGULATIONS. THE STANDARD CS-6 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

**CONFIGURATION DESCRIPTION**

GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	
WATER QUALITY FLOW RATE (CFS OR L/S)	
PEAK FLOW RATE (CFS OR L/S)	
RETURN PERIOD OF PEAK FLOW (YRS)	
PIPE DATA	
INLET PIPE 1	
INLET PIPE 2	
OUTLET PIPE	
NOTES/SPECIAL REQUIREMENTS	
* PER ENGINEER OF RECORD	

**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE: [www.contechES.com](http://www.contechES.com)
- CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- CASCADE SEPARATOR STRUCTURE SHALL MEET ASHTO H20 AND LOAD MATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- CASTINGS SHALL MEET ASHTO H20 AND BE CAST WITH THE CONTECH LOAD.
- CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C476 AND ASHTO LOAD FACTOR DESIGN METHOD.
- ALTERNATE UNITS ARE SHOWN IN HIGHLIGHTS (mm).

**INSTALLATION NOTES**

- ANY SUB-BASE BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLY STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE JOINTS BELOW PIPE INVERTS ARE GROUTED.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
903 Centre Plaza Dr., Suite 400, West Chester, OH 45389  
900.338.1122 513.645.7000 513.645.7892 FAX

CS-6  
CASCADE SEPARATOR  
STANDARD DETAIL

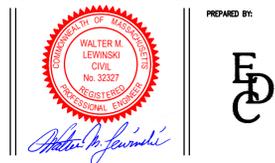
CONTECH CS-6 DETAIL  
NOT TO SCALE

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0		



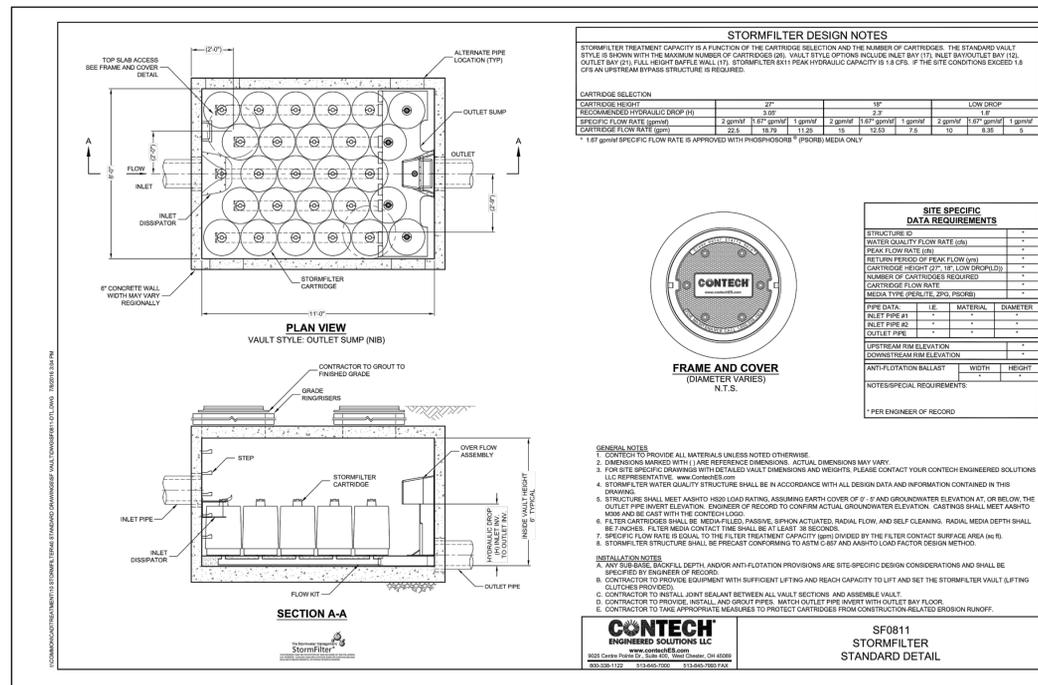
PREPARED BY: **Engineering Design Consultants, Inc.**  
32 Turnpike Road  
Southborough, Massachusetts  
ph:(508) 480-0225 fax:(800)832-5781

PROJECT: **555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

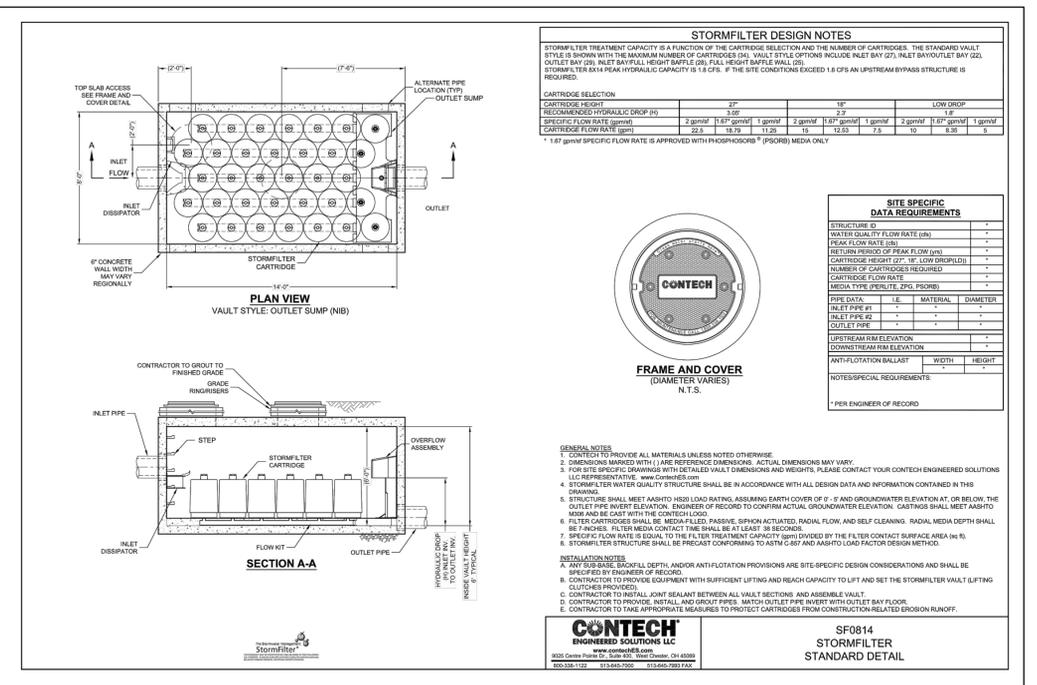
TITLE: **STORMWATER DETAILS  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS**

OWNER/APPLICANT: **CRG INTEGRATED REAL ESTATE SOLUTIONS**  
200 Barr Harbor Drive  
Conshohocken, PA 19248

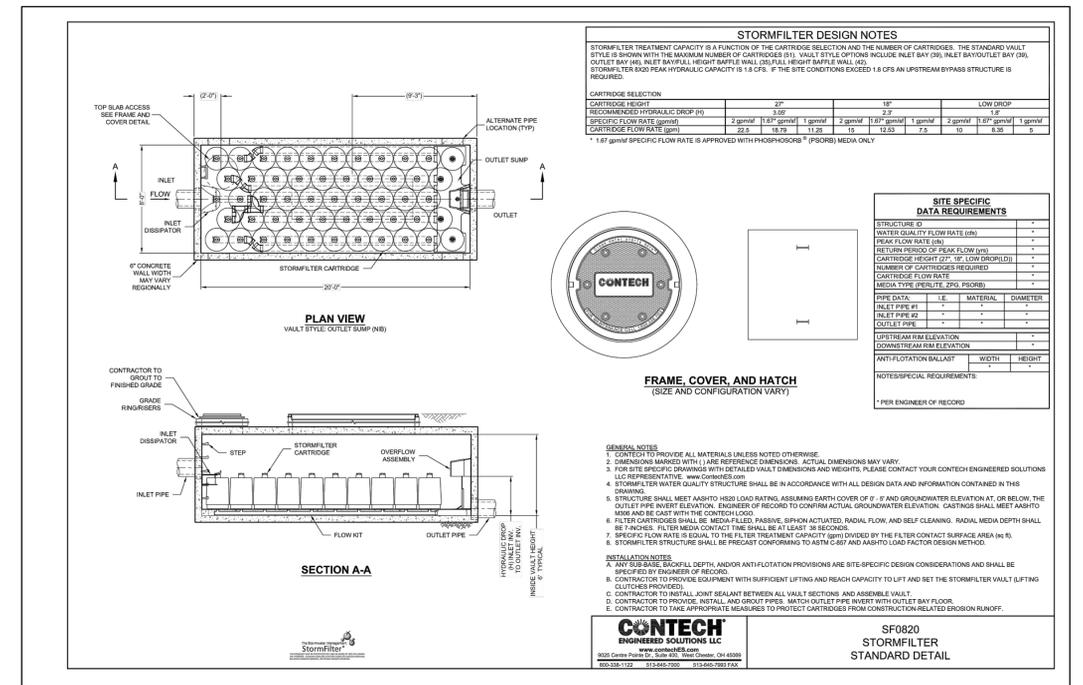
FILE NO.: 3724 DRAINAGE CONTECH  
DETAILS  
CONTECH DETAILS  
DATE: NOVEMBER 16, 2019  
DEFINITE PLAN NO.: 31 of 37  
**31**



CONTECH STORM FILTER (SF0811) DETAIL  
NOT TO SCALE



CONTECH STORM FILTER (SF0814) DETAIL  
NOT TO SCALE



CONTECH STORM FILTER (SF0820) DETAIL  
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1	1/2/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW



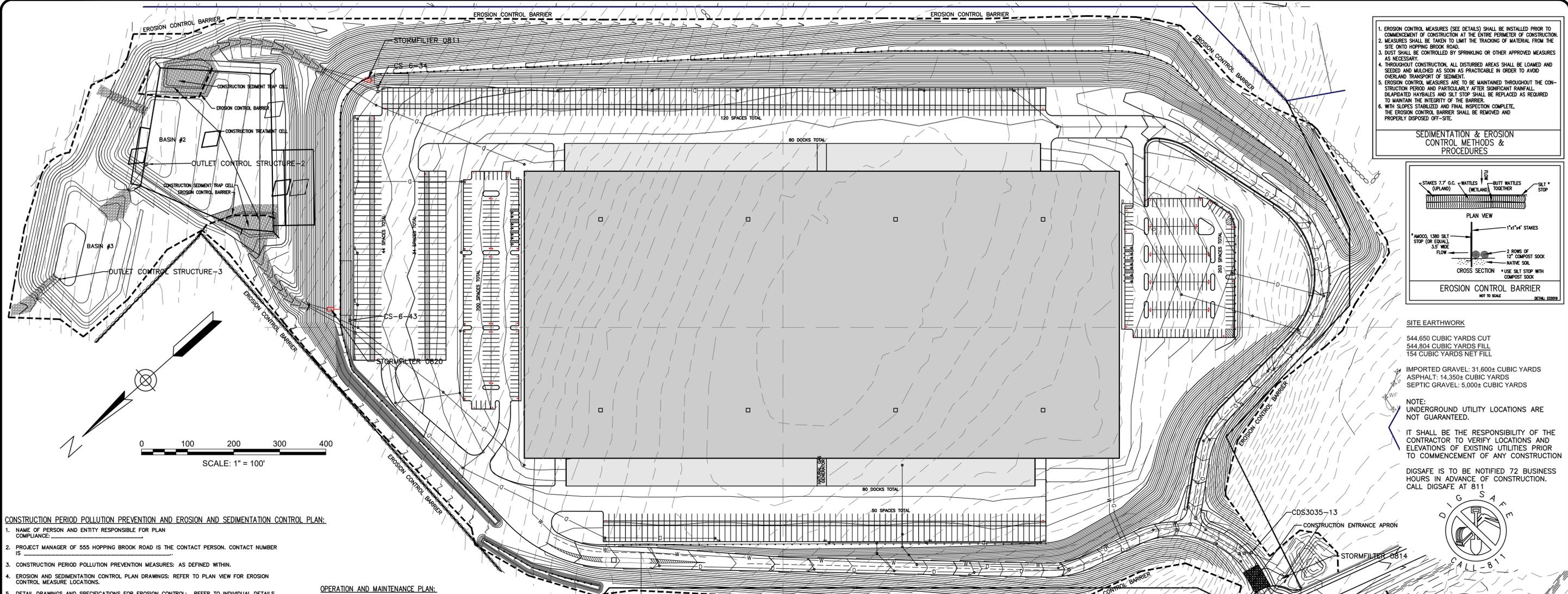
PREPARED BY:  
**Engineering Design Consultants, Inc.**  
32 Turnpike Road  
Southborough, Massachusetts  
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:  
**555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS  
(MIDDLESEX COUNTY)**

TITLE:  
**STORMWATER DETAILS  
555 HOPPING BROOK ROAD  
HOLLISTON, MASSACHUSETTS**

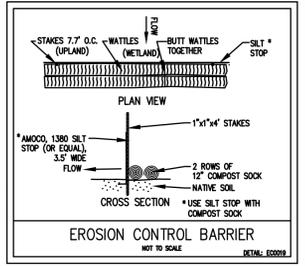
OWNER/APPLICANT:  
**CRG INTEGRATED REAL ESTATE SOLUTIONS  
200 Barr Harbor Drive  
Conshohocken, PA 19248**

FILE NO.: 3724 DRAINAGE CONTECH  
DETAILS  
CONTECH DETAILS (2)  
DATE: NOVEMBER 16, 2019  
DEFINITE PLAN NO.:  
31A 37  
31A



1. EROSION CONTROL MEASURES (SEE DETAILS) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AT THE ENTIRE PERIMETER OF CONSTRUCTION.
2. MEASURES SHALL BE TAKEN TO LIMIT THE TRACKING OF MATERIAL FROM THE SITE ONTO HOPPING BROOK ROAD.
3. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED MEASURES AS NECESSARY.
4. THROUGHOUT CONSTRUCTION, ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED AND MULCHED AS SOON AS PRACTICABLE IN ORDER TO AVOID OVERLAND TRANSPORT OF SEDIMENT.
5. EROSION CONTROL MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND PARTICULARLY AFTER SIGNIFICANT RAINFALL. DAMAGED HAWKES AND SILT STOP SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE BARRIER.
6. WITH SLOPES STABILIZED AND FINAL INSPECTION COMPLETE, THE EROSION CONTROL BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.

**SEDIMENTATION & EROSION CONTROL METHODS & PROCEDURES**



**SITE EARTHWORK**

544,650 CUBIC YARDS CUT  
 544,804 CUBIC YARDS FILL  
 154 CUBIC YARDS NET FILL

IMPORTED GRAVEL: 31,600± CUBIC YARDS  
 ASPHALT: 14,350± CUBIC YARDS  
 SEPTIC GRAVEL: 5,000± CUBIC YARDS

NOTE:  
 UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811

**CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN:**

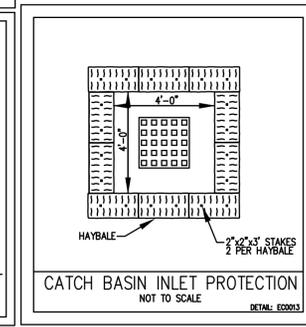
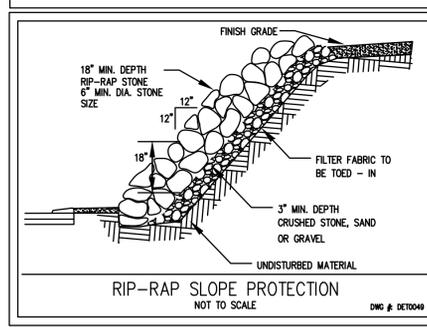
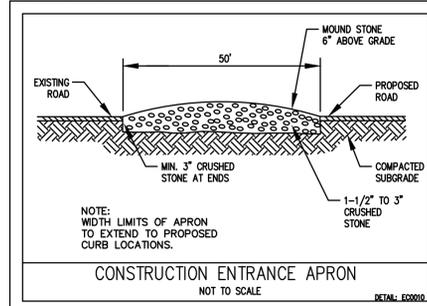
1. NAME OF PERSON AND ENTITY RESPONSIBLE FOR PLAN COMPLIANCE: \_\_\_\_\_
2. PROJECT MANAGER OF 555 HOPPING BROOK ROAD IS THE CONTACT PERSON. CONTACT NUMBER IS \_\_\_\_\_
3. CONSTRUCTION PERIOD POLLUTION PREVENTION MEASURES: AS DEFINED WITHIN.
4. EROSION AND SEDIMENTATION CONTROL PLAN DRAWINGS: REFER TO PLAN VIEW FOR EROSION CONTROL MEASURE LOCATIONS.
5. DETAIL DRAWINGS AND SPECIFICATIONS FOR EROSION CONTROL: REFER TO INDIVIDUAL DETAILS FOR INSTALLATION OF EROSION CONTROL MEASURES.
6. VEGETATION PLANNING: THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN THE LIMITS OF WORK AREA (SILTATION BARRIER & PROPOSED GRADING LIMIT, BEING THE LIMIT OF WORK). THE FINAL PROPOSED SURFACE WILL CONSIST OF PAVING, TREES/SHRUBS/MULCH AND GRASSED AREAS (REFER TO SEQUENCING BELOW).
7. SITE DEVELOPMENT PLAN: REFER TO PLAN VIEW & APPROVED SITE PLANS.
8. CONSTRUCTION SEQUENCING PLAN: THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED: USE THE CONSTRUCTION PHASING SCHEDULE TO THE RIGHT.
9. SEQUENCING OF EROSION AND SEDIMENTATION CONTROLS: EROSION CONTROL PROVISIONS IN PLACE AND INSPECTED PRIOR TO ANY AND ALL CONSTRUCTION.
10. OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS: THE CONTRACTOR/OPERATOR IS RESPONSIBLE FOR MAINTAINING A STABLE SITE. THE OPERATOR SHALL EMPLOY EROSION AND SEDIMENTATION CONTROLS TO PREVENT EROSION AND SEDIMENT RELEASES BEYOND THE SEDIMENT BARRIER. THE EROSION CONTROL MEASURES INDICATED ARE THE MINIMUM THAT SHOULD BE EMPLOYED. THE CONTRACTOR/OPERATOR SHALL EMPLOY ADDITIONAL CONTROLS AS THE ON-SITE CONSTRUCTION EXPERIENCE DICTATES.
11. INSPECTION SCHEDULE:
  - a. INSPECTIONS SHALL TAKE PLACE AT LEAST ONCE EVERY 7 CALENDAR DAYS OR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.25" OF RAIN OR GREATER.
  - b. INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS.
  - c. INSPECTIONS MUST BE CONDUCTED BY A PROPERLY AUTHORIZED QUALIFIED PERSONNEL.
  - d. INSPECTIONS SHALL INCLUDE ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITIES. INSPECTIONS MUST LOOK FOR EVIDENCE OF POLLUTANTS OR POTENTIAL POLLUTANTS ENTERING THE STORM WATER SYSTEM. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED TO ENSURE PROPER OPERATION. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
12. MAINTENANCE SCHEDULE: REPORTS SUMMARIZING THE INSPECTIONS SHOULD BE KEPT AS PART OF THIS CONSTRUCTION PERIOD POLLUTION PREVENTION AND SEDIMENTATION CONTROL PLAN. AT A MINIMUM THE INSPECTION REPORTS SHALL INCLUDE:
  - a. INSPECTION DATE;
  - b. NAME, TITLE AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION;
  - c. WEATHER CONDITIONS AT THE TIME OF INSPECTION AND SINCE THE PREVIOUS INSPECTION, INCLUDING A BEST ESTIMATE OF THE BEGINNING OF EACH STORM EVENT THAT OCCURRED, DURATION OF EACH STORM EVENT, APPROXIMATE AMOUNT OF RAINFALL FOR EACH STORM EVENT, AND WHETHER ANY DISCHARGES HAVE OCCURRED;
  - d. DISCHARGES THAT OCCUR AT THE TIME OF INSPECTION;
  - e. LOCATION OF DISCHARGES OR SEDIMENTATION FROM THE SITE;
  - f. LOCATION OF "Bmps" THAT NEED TO BE MAINTAINED;
  - g. LOCATION OF "Bmps" THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION;
  - h. LOCATIONS WHERE ADDITIONAL "Bmps" ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION; AND
  - i. CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THIS PLAN.

**OPERATION AND MAINTENANCE PLAN:**

MAJOR O&M PLAN TASKS AND DESCRIPTIONS IS OUTLINED AS FOLLOWS:

1. SCHEDULE OF SHORT-TERM OPERATION AND MAINTENANCE (DURING CONSTRUCTION):
  - a. EROSION CONTROL BARRIER: THE EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. PRIOR TO STORM EVENTS AND IMMEDIATELY AFTER STORM EVENTS TO ENSURE ITS INTEGRITY. PORTIONS OF THE EROSION CONTROL BARRIER SHALL BE REMEDIATED AS NECESSARY TO PREVENT EROSION.
  - a. CONSTRUCTION ENTRANCE APRON: THE CONSTRUCTION ENTRANCE APRON SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. THE CONSTRUCTION ENTRANCE APRON SHALL BE REPLACED WHEN DEBRIS BECOMES NOTICEABLE ON THE EXISTING PAVEMENT SURFACES OPPOSITE THE CONSTRUCTION SIDE OF THE PROPOSED WORK.
  - b. SLOPE STABILIZATION: THE SLOPE STABILIZATION CONTROLS SHALL BE INSTALLED IMMEDIATELY UPON OBTAINING FINAL GRADES AS SHOWN ON THE PROJECT PLANS. AREAS IN FAILURE SHALL BE RE-GRADED TO FINAL GRADE AND STABILIZED AS NECESSARY.
  - c. CONSTRUCTION COMPLETION: THE ENTIRE STORM WATER MANAGEMENT SYSTEM SHALL BE INSPECTED UPON COMPLETION OF CONSTRUCTION. PORTIONS OF THE SYSTEM CONTAINING SEDIMENTATION SHALL BE PROPERLY CLEANED AND THE SILT REMOVED.
2. MAINTENANCE AGREEMENT/SCHEDULE FOR LONG-TERM OPERATION AND MAINTENANCE (POST CONSTRUCTION)
  - a. OWNER OF THE STORMWATER SYSTEM: \_\_\_\_\_
  - b. PERSON RESPONSIBLE FOR FINANCING MAINTENANCE AND EMERGENCY REPAIRS: \_\_\_\_\_
  - c. THE ESTIMATED ANNUAL MAINTENANCE COST OF THIS STORMWATER MANAGEMENT SYSTEM IS \$15,000.
  - d. DEEP SUMP CATCH BASINS: INSPECT AND CLEAN AT LEAST 4 TIMES PER YEAR, AT THE END OF FOLIAGE AND SNOW SEASONS. REMOVE SEDIMENT WHEN IT IS HALF WAY UP FROM THE BOTTOM OF THE CATCH BASIN TO THE INVERT OF THE PIPE.
  - e. CLEANING CDS & CS UNIT INSPECTIONS: INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE AND IS EASILY PERFORMED. POLLUTANT DEPOSITION AND TRANSPORT MAY VARY FROM YEAR TO YEAR, AND REGULAR INSPECTIONS WILL HELP INSURE THAT THE SYSTEM IS CLEANED OUT AT THE APPROPRIATE TIME. AT A MINIMUM, INSPECTIONS SHOULD BE PERFORMED TWICE PER YEAR (I.E. SPRING AND FALL) HOWEVER MORE FREQUENT INSPECTIONS MAY BE NECESSARY WHERE FREQUENT WINTER SANDING OPERATIONS MAY LEAD TO RAPID ACCUMULATIONS. THE VISUAL INSPECTION SHOULD ASCERTAIN THAT THE SYSTEM COMPONENTS ARE IN WORKING ORDER AND THAT THERE ARE NO BLOCKAGES OR OBSTRUCTIONS TO INLET AND/OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO IDENTIFY ACCUMULATIONS OF HYDROCARBONS, TRASH, AND SEDIMENT IN THE SYSTEM. MEASURING POLLUTANT ACCUMULATION CAN BE DONE WITH A CALIBRATED DIPSTICK, TAPE MEASURE OR OTHER MEASURING INSTRUMENT. IT IS USEFUL, AND OFTEN REQUIRED AS PART OF A PERMIT TO KEEP A RECORD OF EACH INSPECTION. (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)

1. CLEANING OF THE CDS & CS UNITS SHOULD BE DONE WHEN SEDIMENT ACCUMULATES AT A DEPTH OF TWO FEET WITHIN THE UNIT AND SHOULD BE DONE DURING DRY WEATHER CONDITIONS WHEN NO FLOW IS ENTERING THE SYSTEM. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE MOST EFFECTIVE AND CONVENIENT METHOD OF EXCAVATING POLLUTANTS FROM THE SYSTEM. SIMPLY REMOVE THE MANHOLE COVERS AND INSERT THE VACUUM HOSE INTO THE SUMP. THE SYSTEM SHOULD BE COMPLETELY DRAINED DOWN AND THE SUMP FULLY EVACUATED OF SEDIMENT. THE AREA OUTSIDE THE SCREEN SHOULD BE PUMPED OUT ALSO IF POLLUTANT BUILD-UP EXISTS IN THIS AREA (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)
9. INSPECTING THE UNDERGROUND CMP DETENTION AREAS SHOULD BE DONE WHEN THE CDS & CS UNITS ARE CLEANED. IF NECESSARY, A VACUUM TRUCK CAN BE USED TO EXCAVATE POLLUTANTS. SYSTEMS SHOULD BE RINSED, INCLUDING ABOVE THE SPRING LINE, ANNUALLY AFTER THE SPRING THAW (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)
- h. STORMFILTER: INSPECTION AND MAINTENANCE TIMING AT LEAST ONE SCHEDULED INSPECTION SHOULD TAKE PLACE PER YEAR WITH MAINTENANCE FOLLOWING AS WARRANTED. FIRST, AN INSPECTION SHOULD BE DONE BEFORE THE WINTER SEASON. DURING THE INSPECTION THE NEED FOR MAINTENANCE SHOULD BE DETERMINED AND, IF DISPOSAL DURING MAINTENANCE WILL BE REQUIRED, SAMPLES OF THE ACCUMULATED SEDIMENTS AND MEDIA SHOULD BE OBTAINED. SECOND, IF WARRANTED, A MAINTENANCE (REPLACEMENT OF THE FILTER CARTRIDGES AND REMOVAL OF ACCUMULATED SEDIMENTS) SHOULD BE PERFORMED DURING PERIODS OF DRY WEATHER. IN ADDITION TO THESE TWO ACTIVITIES, IT IS IMPORTANT TO CHECK THE CONDITION OF THE STORMFILTER UNIT AFTER MAJOR STORMS FOR POTENTIAL DAMAGE CAUSED BY HIGH FLOWS AND FOR HIGH SEDIMENT ACCUMULATION THAT MAY BE CAUSED BY LOCALIZED EROSION IN THE DRAINAGE AREA. IT MAY BE NECESSARY TO ADJUST THE INSPECTION/ MAINTENANCE SCHEDULE DEPENDING ON THE ACTUAL OPERATING CONDITIONS ENCOUNTERED BY THE SYSTEM. IN GENERAL, INSPECTION ACTIVITIES CAN BE CONDUCTED AT ANY TIME, AND MAINTENANCE SHOULD OCCUR, IF WARRANTED, DURING DRYER MONTHS IN LATE SUMMER TO EARLY FALL (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)
- e. INFILTRATION BASINS: PERIODIC SMALL-SCALE MAINTENANCE AT REGULAR INTERVALS TO EVALUATE AND REMOVE ANY ACCUMULATED SEDIMENT MAY BE NECESSARY. INSPECT THE INFILTRATION BASINS TWICE ANNUALLY AND WHEN THE STORMWATER DISCHARGES OVER THE HIGH OUTLET AND ANY STORM OVER 2.5 INCHES IN 24 HOURS. INSPECT THE OUTLET STRUCTURES, EMBANKMENT, INFILTRATION AREA. MOW THE INFILTRATION BASIN AT LEAST 2 TIME PER YEAR. REMOVE GRASS CLIPPINGS, TRASH, SEDIMENT. USE DEEP TILLING TO BREAK UP CLOGGED AREAS AND RE-VEGETATE IMMEDIATELY.
- f. INSPECTION REPORTS: SEE #12 UNDER "CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN." FOR REPORTS, REPORTS SHALL BE MAINTAINED FOR SUBMISSION TO THE DPW FOR A PERIOD OF THREE YEARS.
- g. ILLICIT DISCHARGES: ALL ILLICIT DISCHARGES TO ANY PART OF THE STORMWATER SYSTEM ARE STRICTLY PROHIBITED. IF AN ACCIDENTAL SPILL OCCURS (OIL AND/OR CHEMICAL SPILLS, RADIATION EMERGENCIES, AND BIOLOGICAL DISCHARGES) THE NATIONAL RESPONSE CENTER MUST BE CALLED AT 1-800-424-8802.



- CONSTRUCTION PHASING SCHEDULE**
1. PRE-CONSTRUCTION MEETING
  2. PLACE EROSION CONTROL BARRIERS (INSPECTING AS NOTED IN THE SWPPP)
  3. PLACE CONSTRUCTION ENTRANCE APRON
  4. PLAN SEDIMENT POND LOCATIONS
  5. UTILITY CONSTRUCTION
  6. FINE GRADE BUILDING PAD
  7. FINE GRADE DRIVES & PAVEMENT BASE COURSE
  8. BUILDING CONSTRUCTION
  9. FINE GRADE OTHER AREAS & RIPRAP SLOPES
  10. LANDSCAPE - LAWN & SEED
  11. FINAL PAVEMENT COURSE
  12. RAISE GRASS & GRAYS TO GRADE
  13. PAVEMENT STRIPES
  14. REMOVE SEDIMENT FROM SEDIMENT PONDS & FINALIZE CONSTRUCTION OF DETENTION BASINS, CLEAN STORMWATER STRUCTURES AND PIPES AS NECESSARY
  15. CLEANUP
  16. INSPECTIONS & APPROVALS
  17. REMOVE EROSION CONTROL BARRIERS
  18. ROUGH GRADE BUILDING PAD
  19. ROUGH GRADE OTHER AREAS
  20. STOCKPILE MATERIALS INCLUDE EROSION CONTROL BARRIERS AT THE LIMITS
  21. UTILITY CONSTRUCTION
  22. FINE GRADE BUILDING PAD
  23. FINE GRADE DRIVES & PAVEMENT BASE COURSE
  24. BUILDING CONSTRUCTION
  25. FINE GRADE OTHER AREAS & RIPRAP SLOPES
  26. LANDSCAPE - LAWN & SEED
  27. FINAL PAVEMENT COURSE
  28. RAISE GRASS & GRAYS TO GRADE
  29. PAVEMENT STRIPES
  30. REMOVE SEDIMENT FROM SEDIMENT PONDS & FINALIZE CONSTRUCTION OF DETENTION BASINS, CLEAN STORMWATER STRUCTURES AND PIPES AS NECESSARY
  31. CLEANUP
  32. INSPECTIONS & APPROVALS
  33. REMOVE EROSION CONTROL BARRIERS

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REV	DATE	DESCRIPTION
5	5/11/21	PEER REVIEW COMMENTS
4	4/13/21	PEER REVIEW COMMENTS
3	2/5/21	ISSUED FOR REVIEW
2	3/2/20	PEER REVIEW COMMENTS
1	2/2/20	PEER REVIEW COMMENTS
0	11/16/19	ISSUED FOR REVIEW

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PROJECT: 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS  
 (MIDDLESEX COUNTY)

TITLE: STORMWATER POLLUTION PREVENTION PLAN  
 555 HOPPING BROOK ROAD  
 HOLLISTON, MASSACHUSETTS

OWNER/APPLICANT: CRG INTEGRATED REAL ESTATE SOLUTIONS  
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FILE NO: 3724 SWPPP  
 SWPPP  
 DATE: NOVEMBER 16, 2019  
 SHEET NO.: 33 of 37  
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