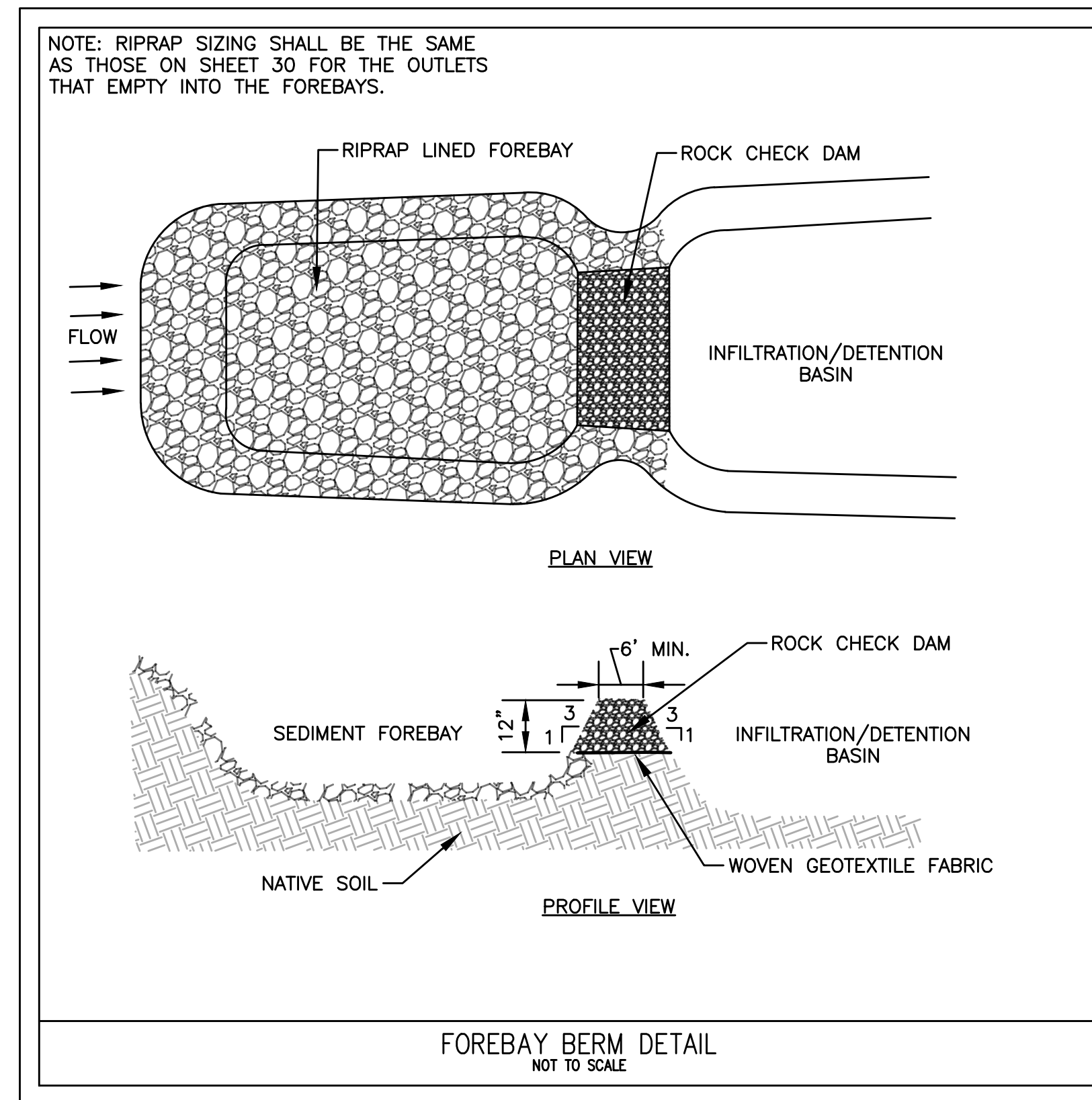
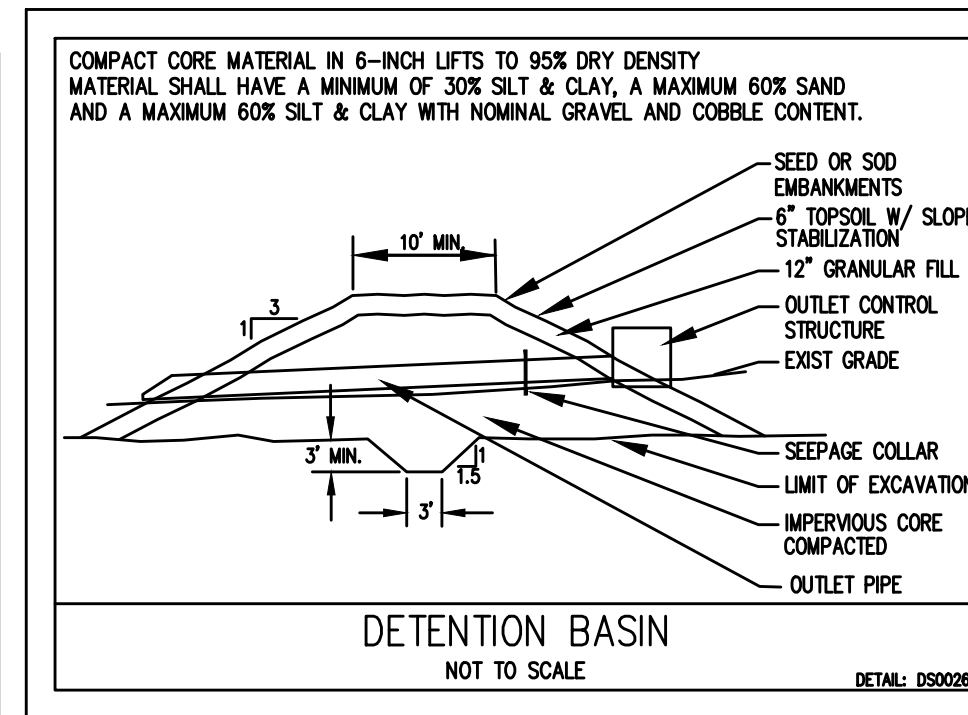
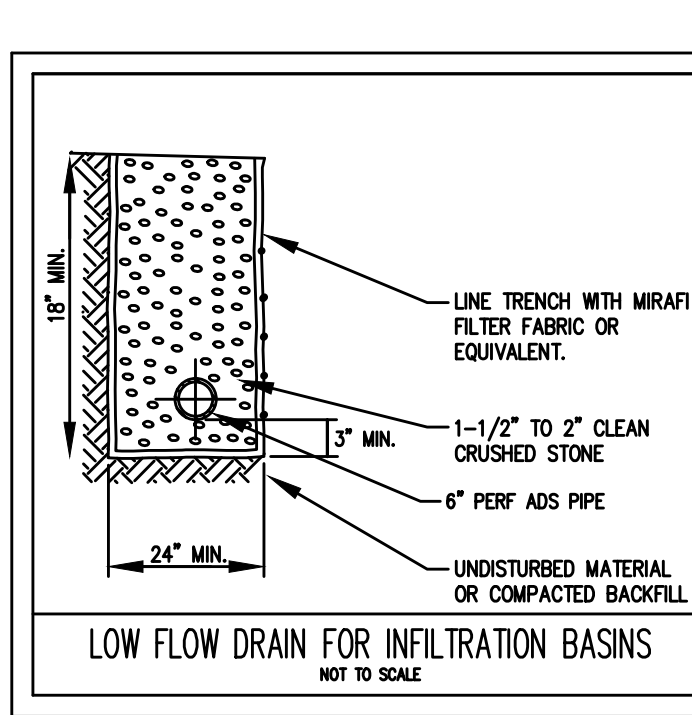
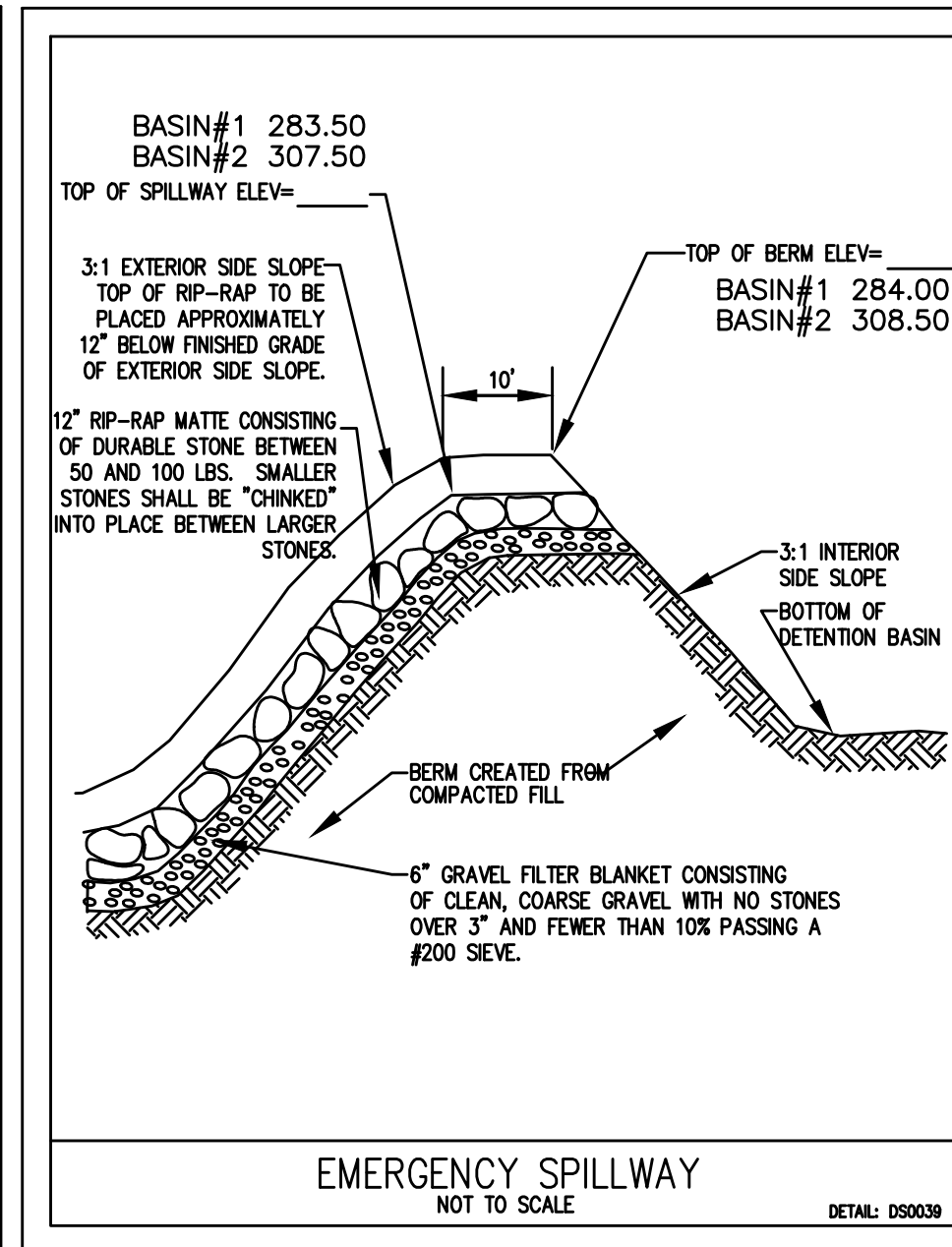
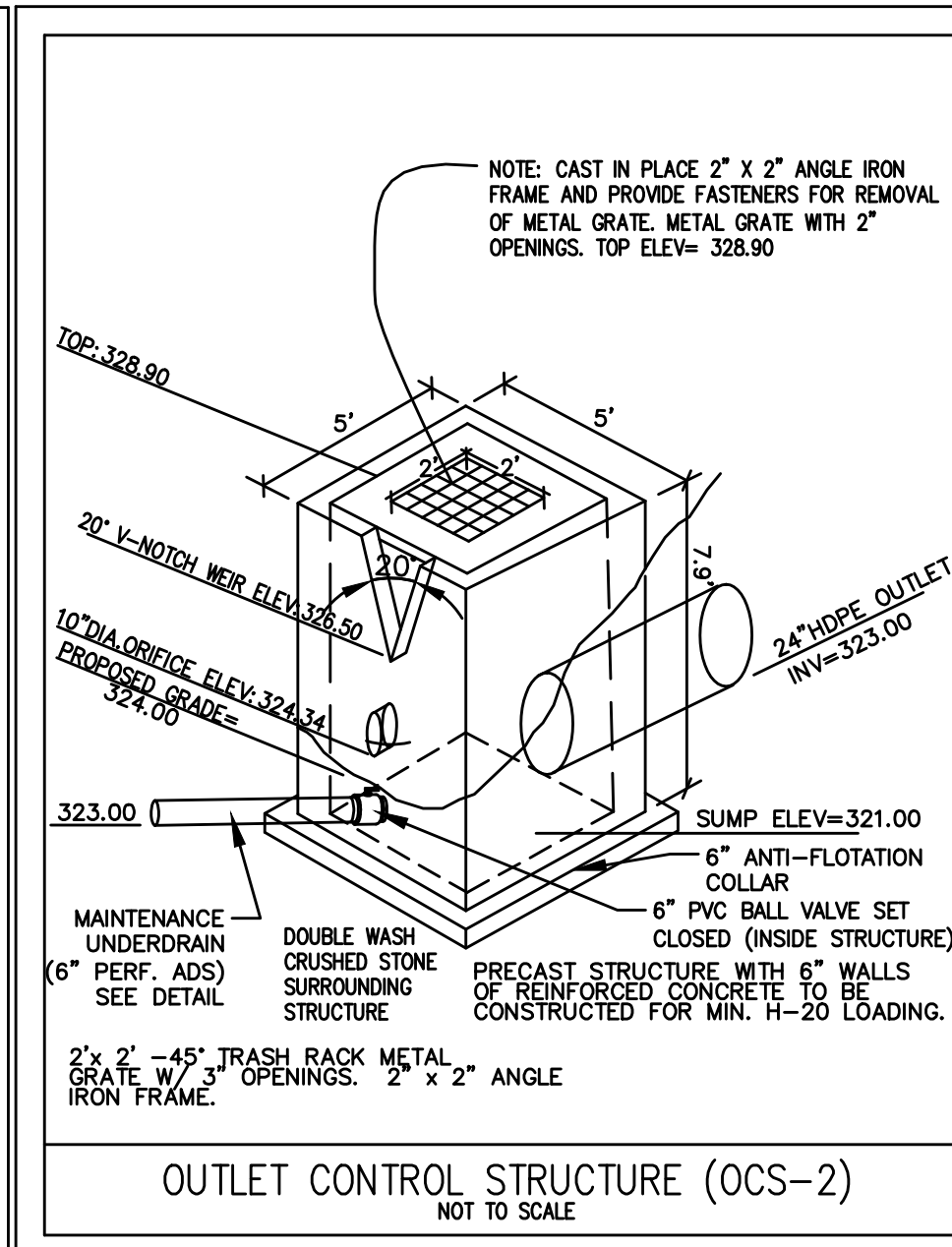
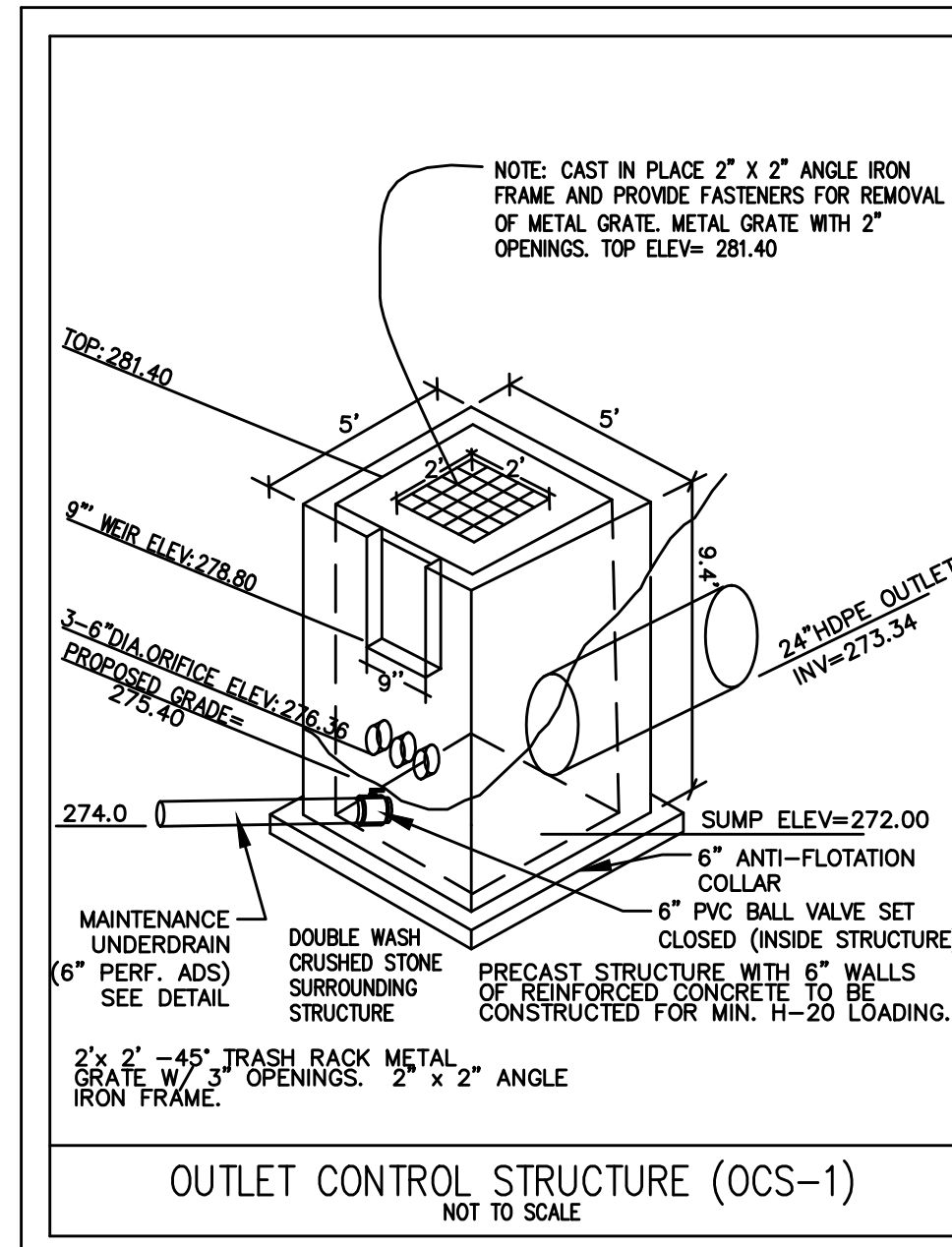
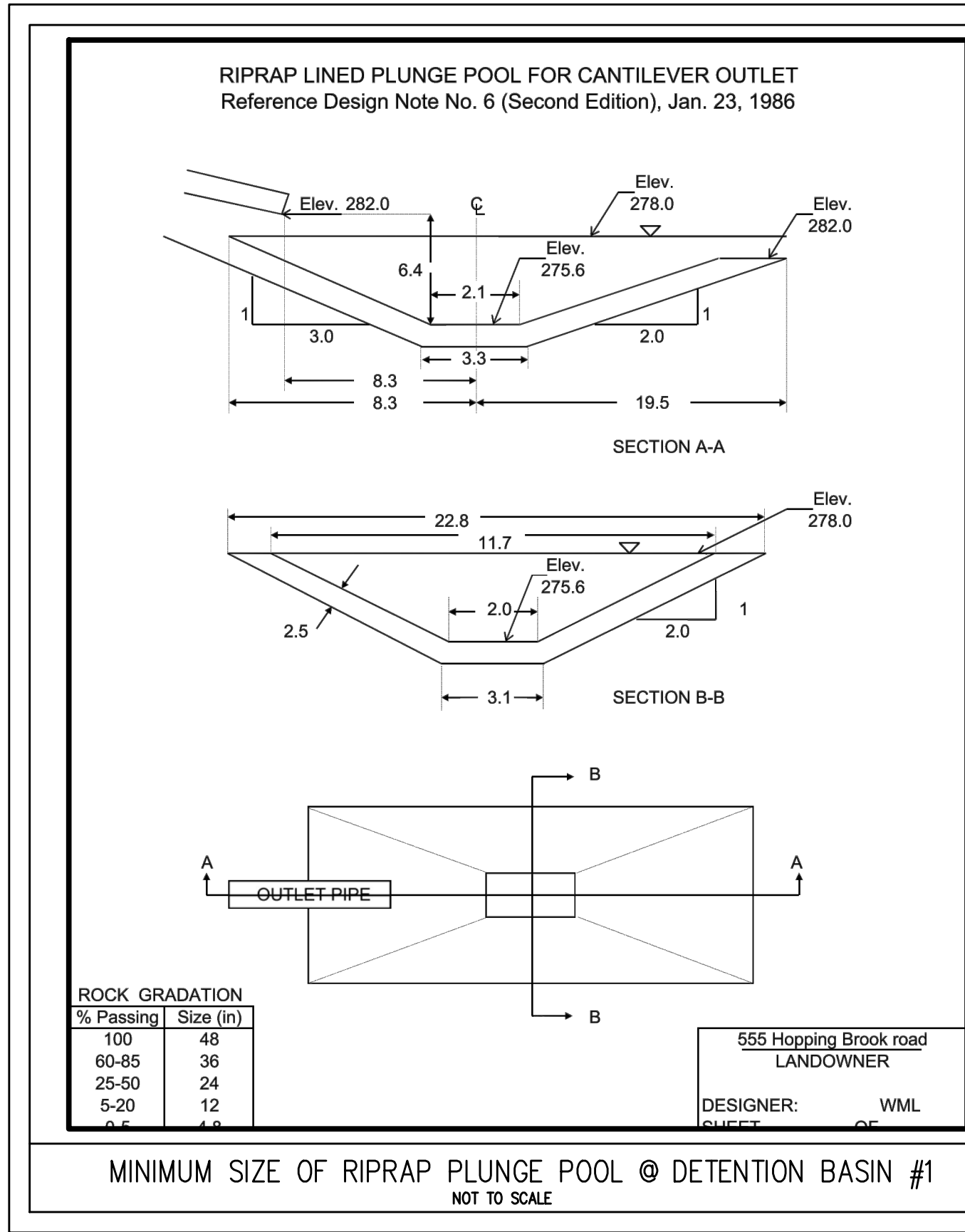
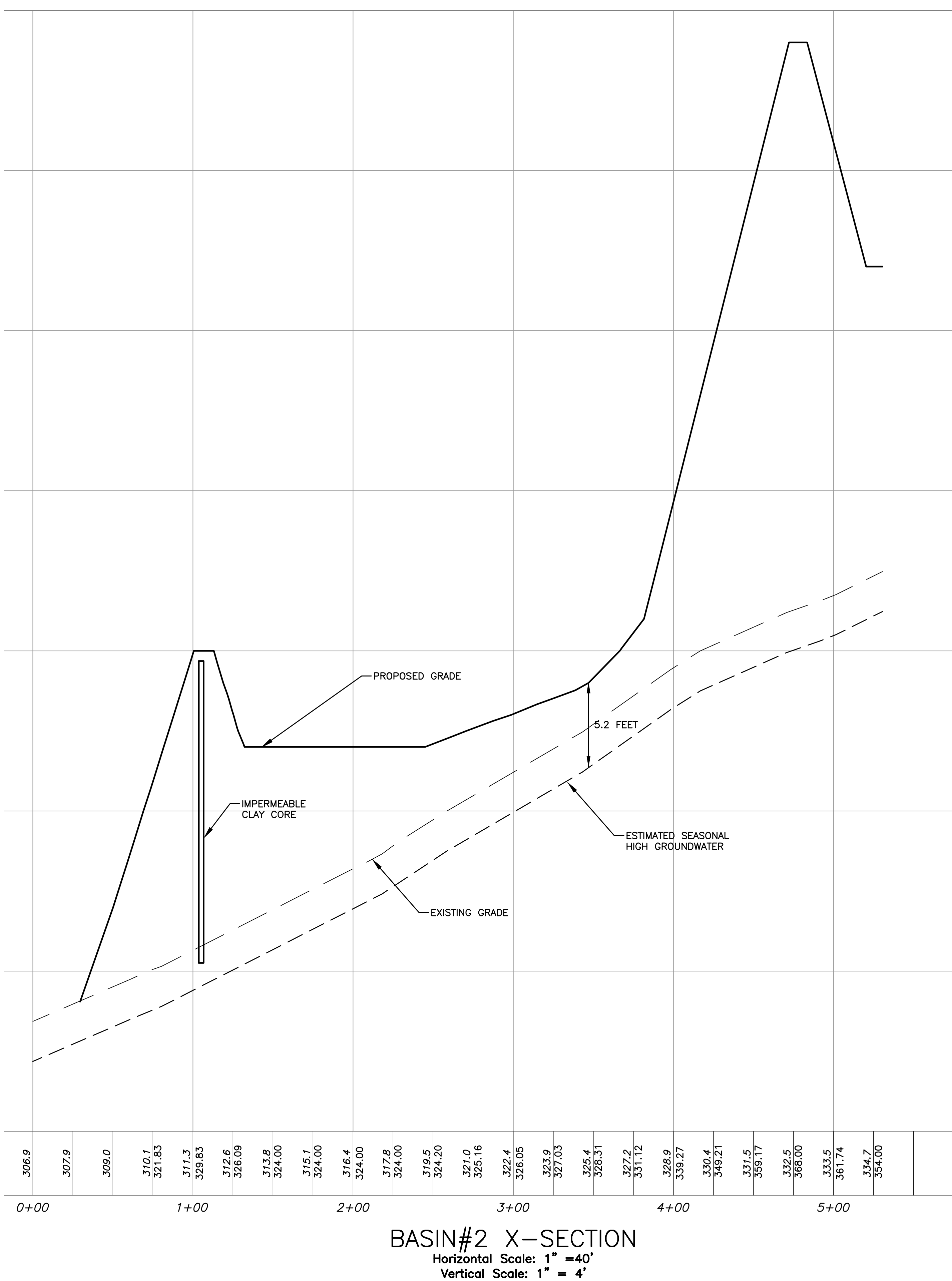


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REVISIONS			
REV	DATE	DESCRIPTION	
5	6/6/23	PEER REVIEW COMMENTS	
4	1/24/23	PEER REVIEW COMMENTS	
3	9/01/22	SITE PLAN APPROVAL	
2			
1			
0			
DRAWN BY: WML			
CHECKED BY: PSB			
APPROVED BY: PSB			



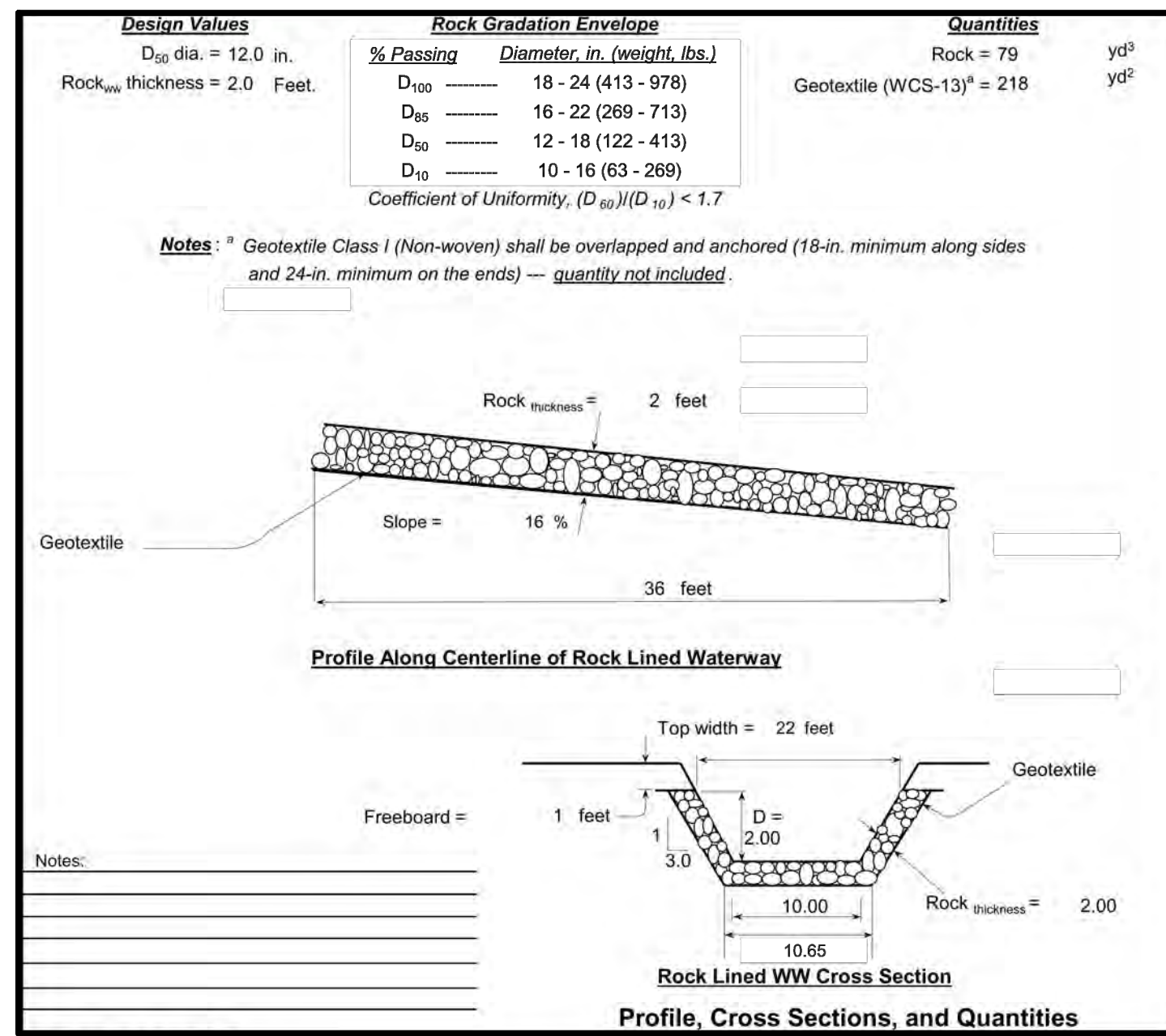
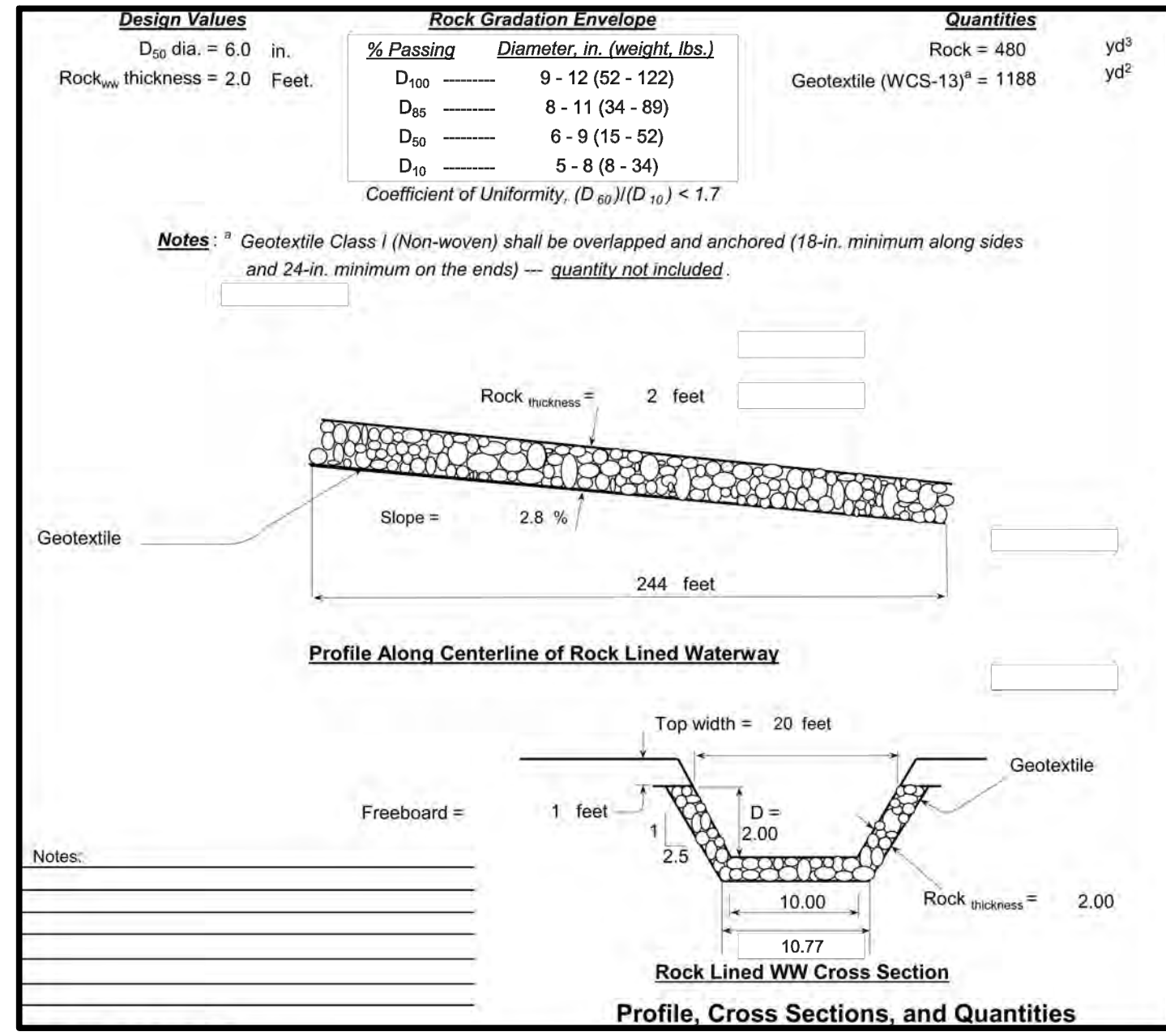
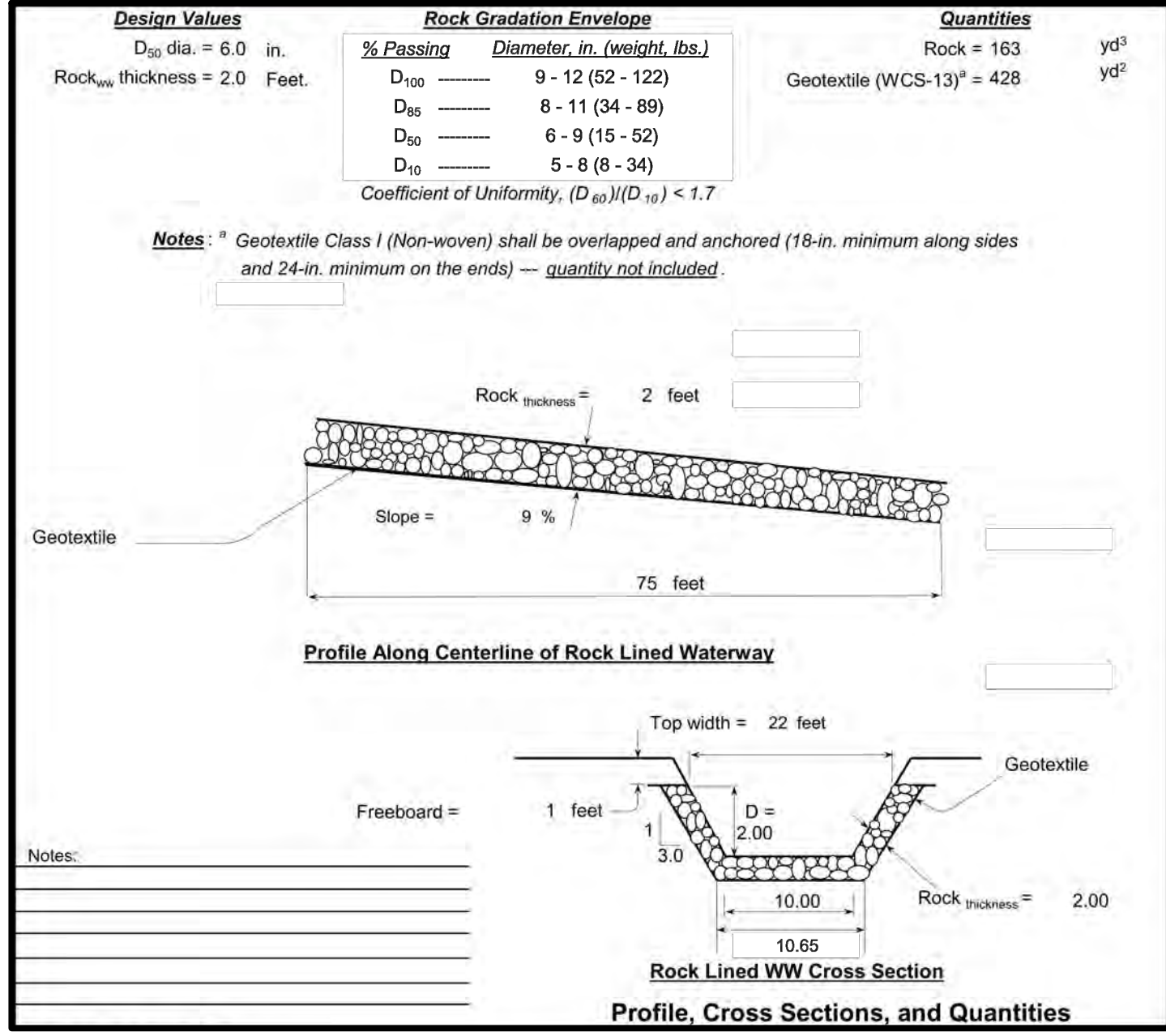
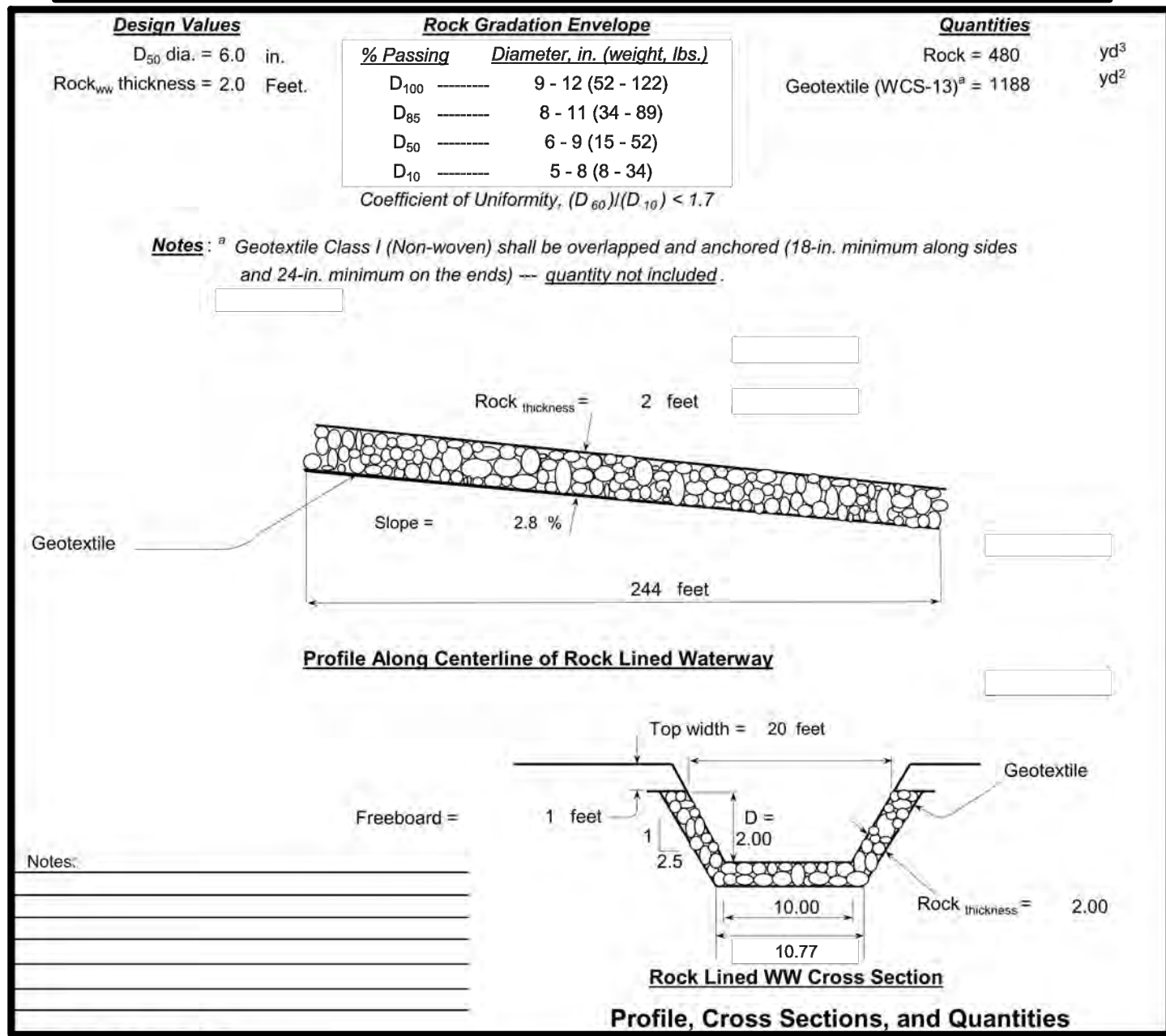
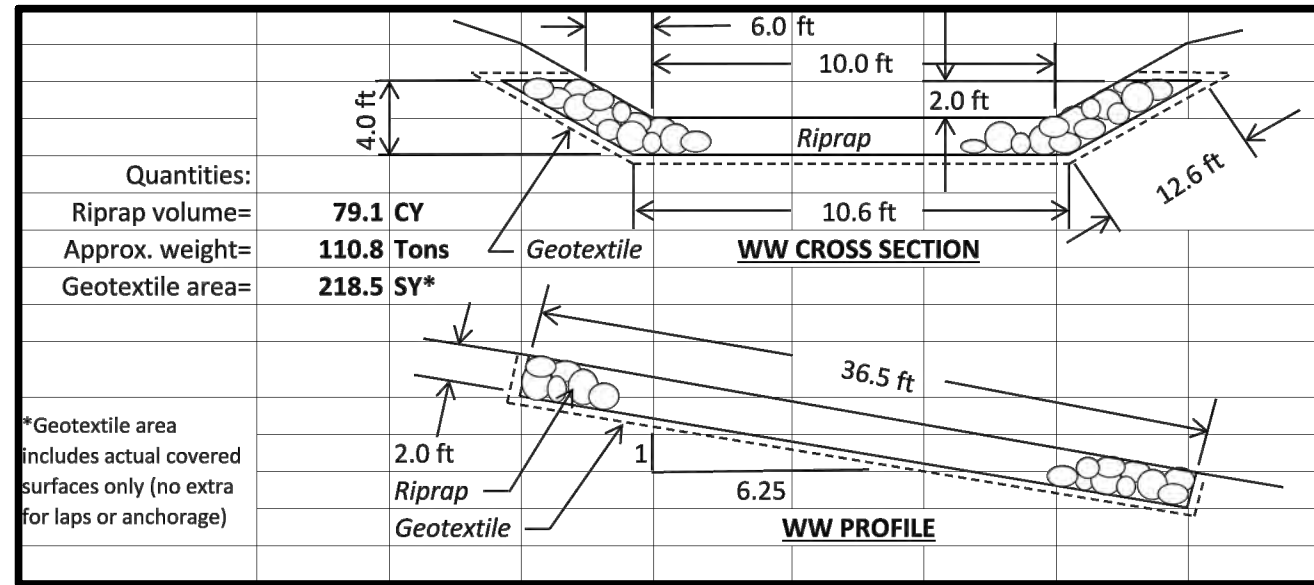
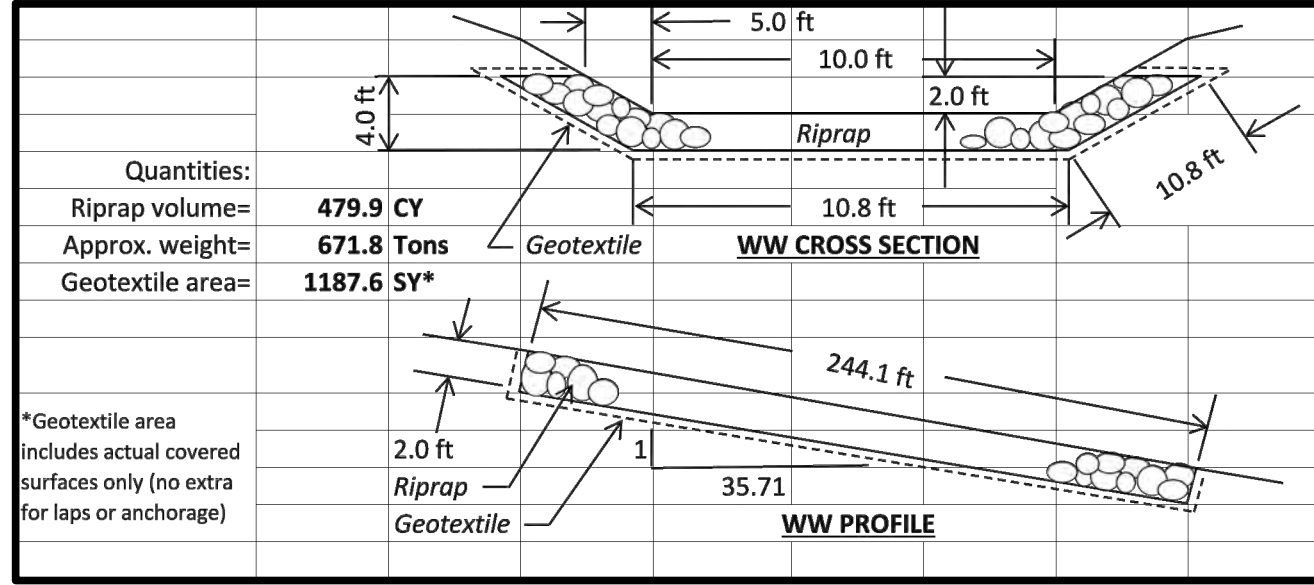
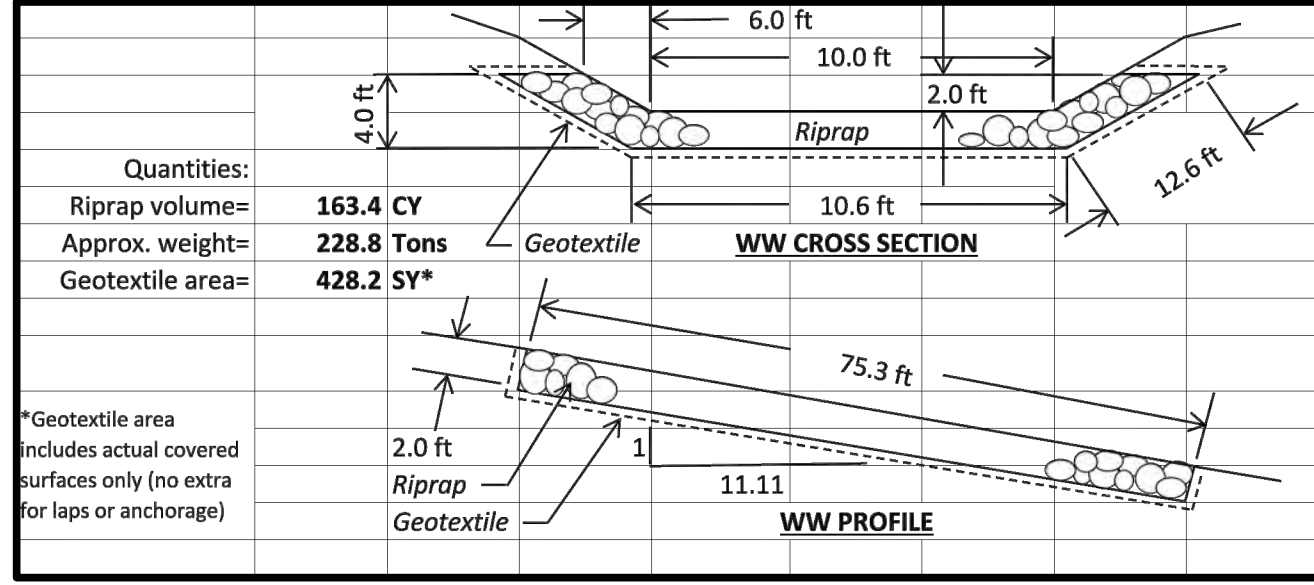
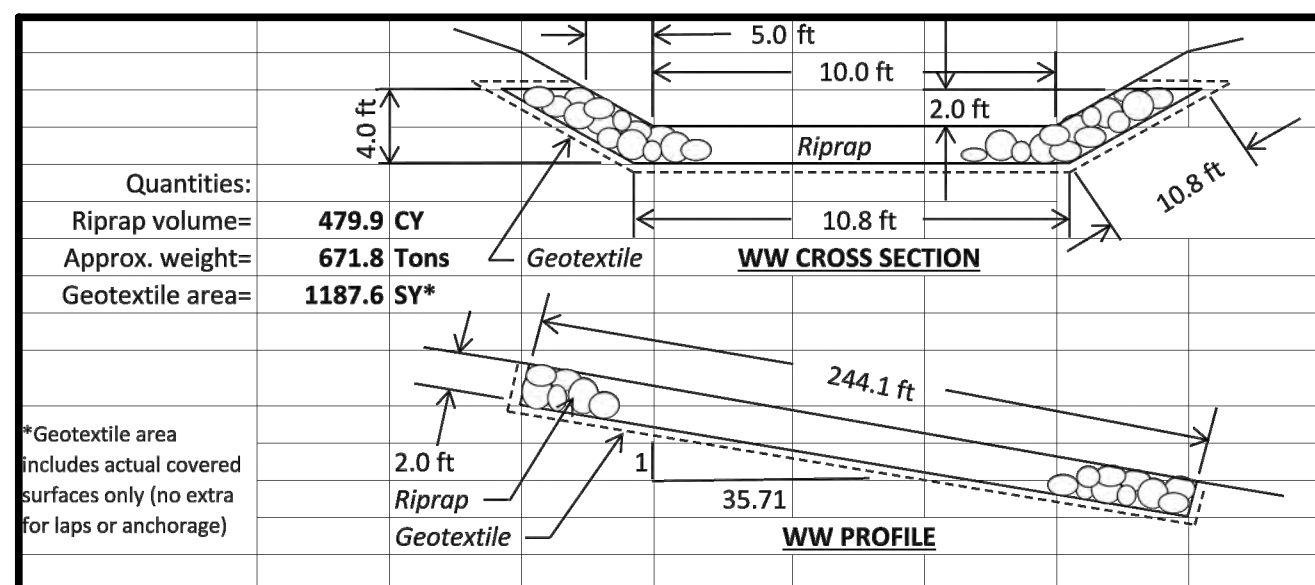
PREPARED BY:
Engineering Design Consultants, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

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

TITLE:
**STORMWATER DETAILS 1
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**

OWNER/APPLICANT:
**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO.: 3780 DETAILS
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.: 26 of 36
26

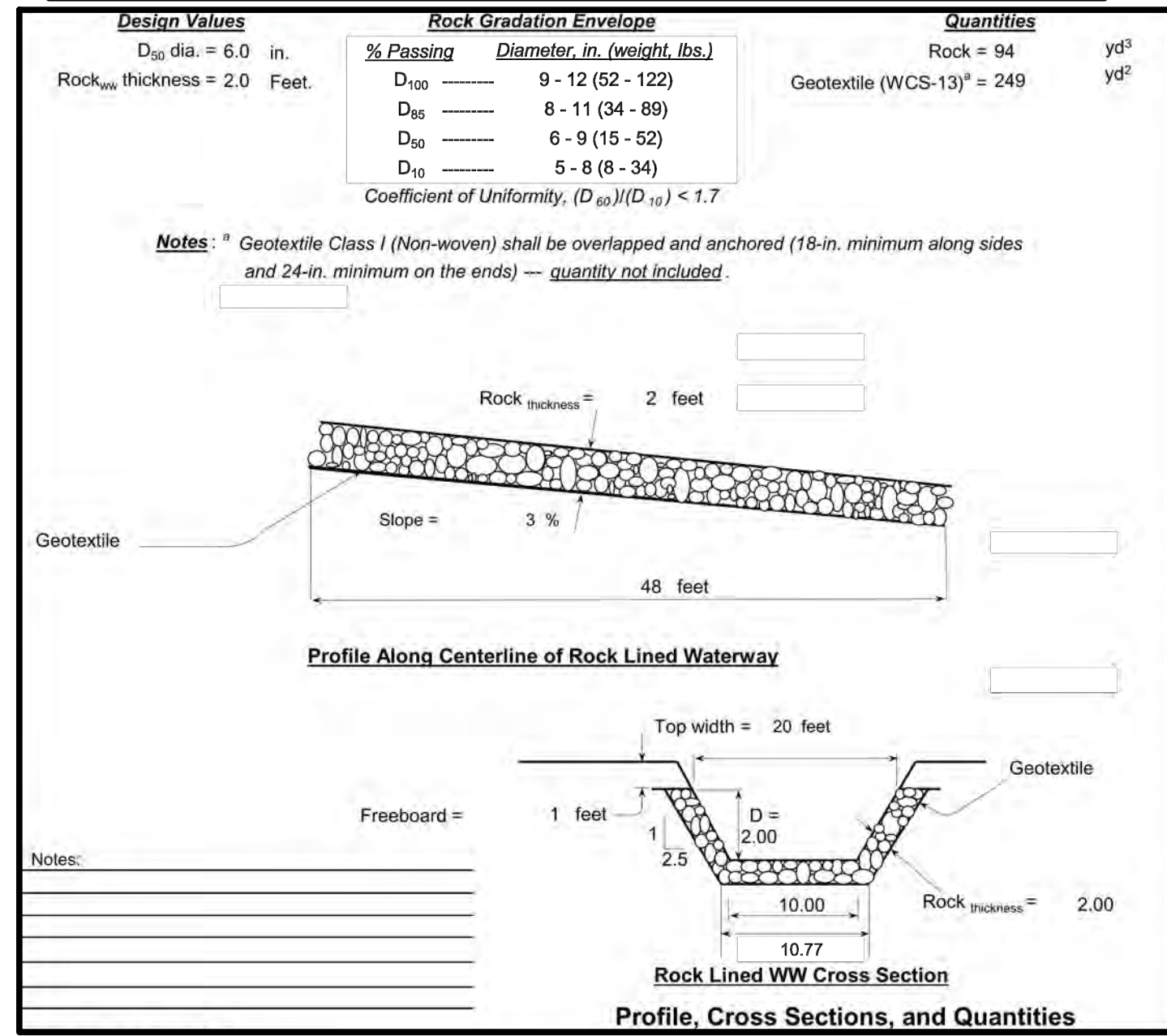
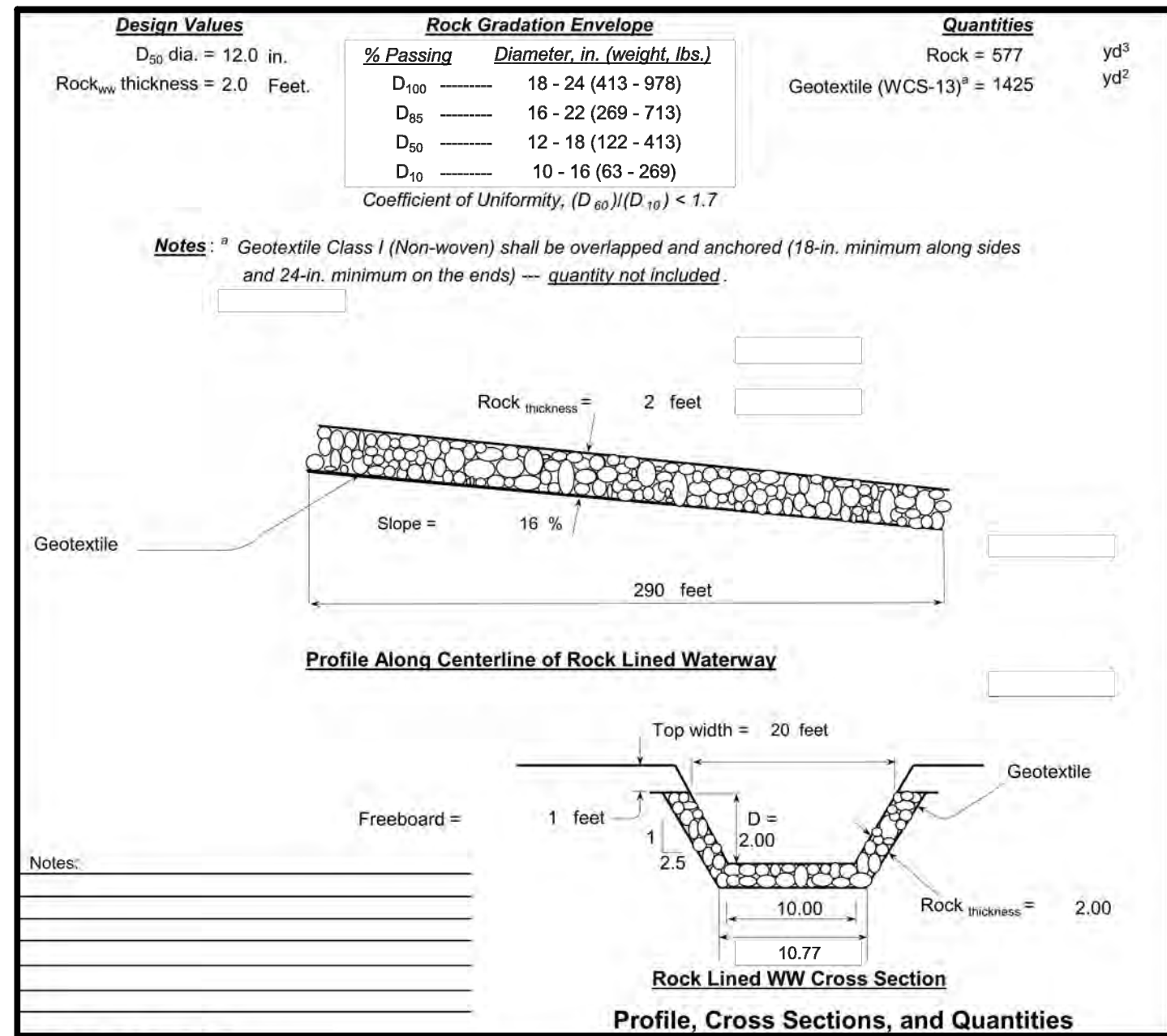
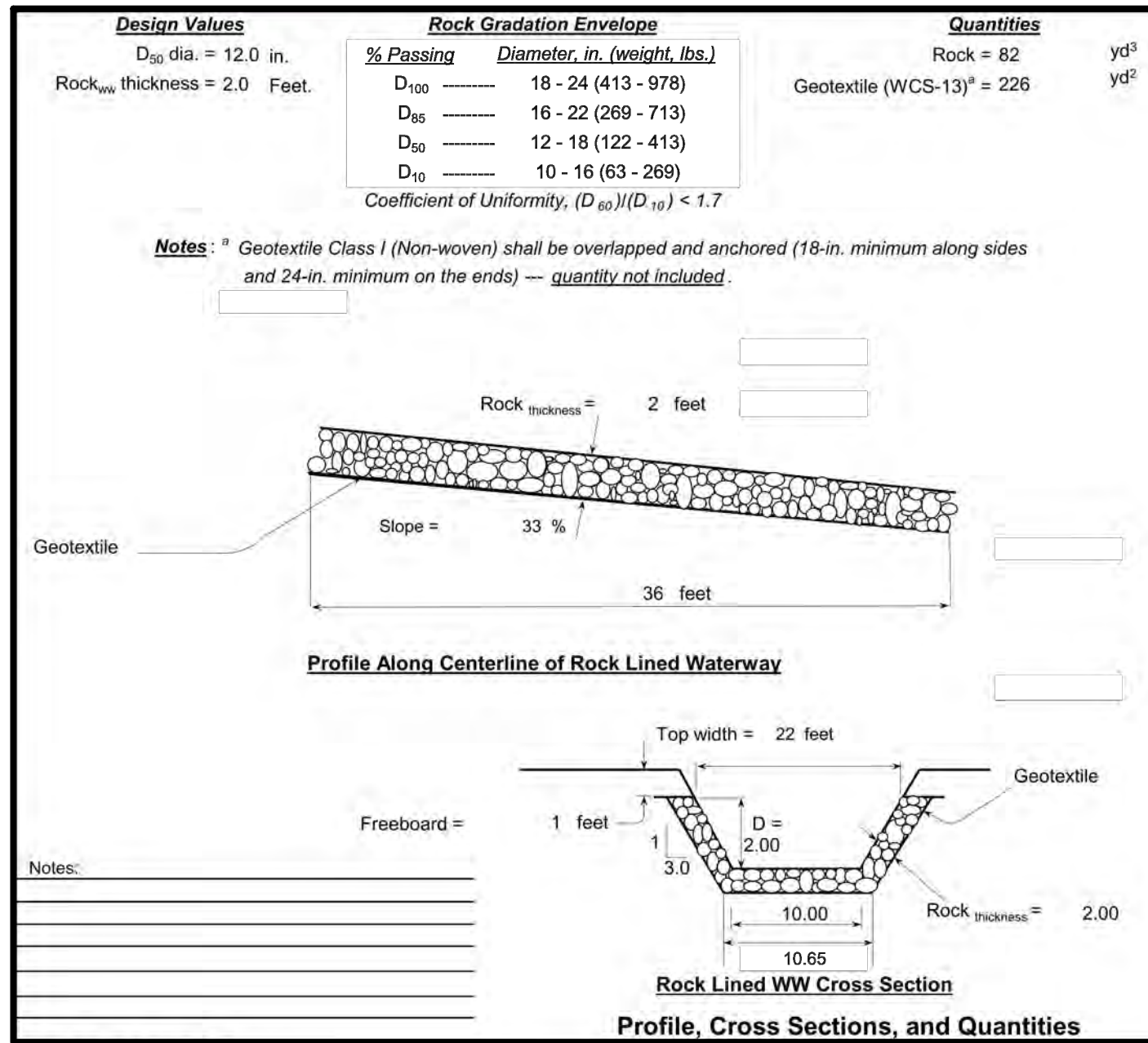
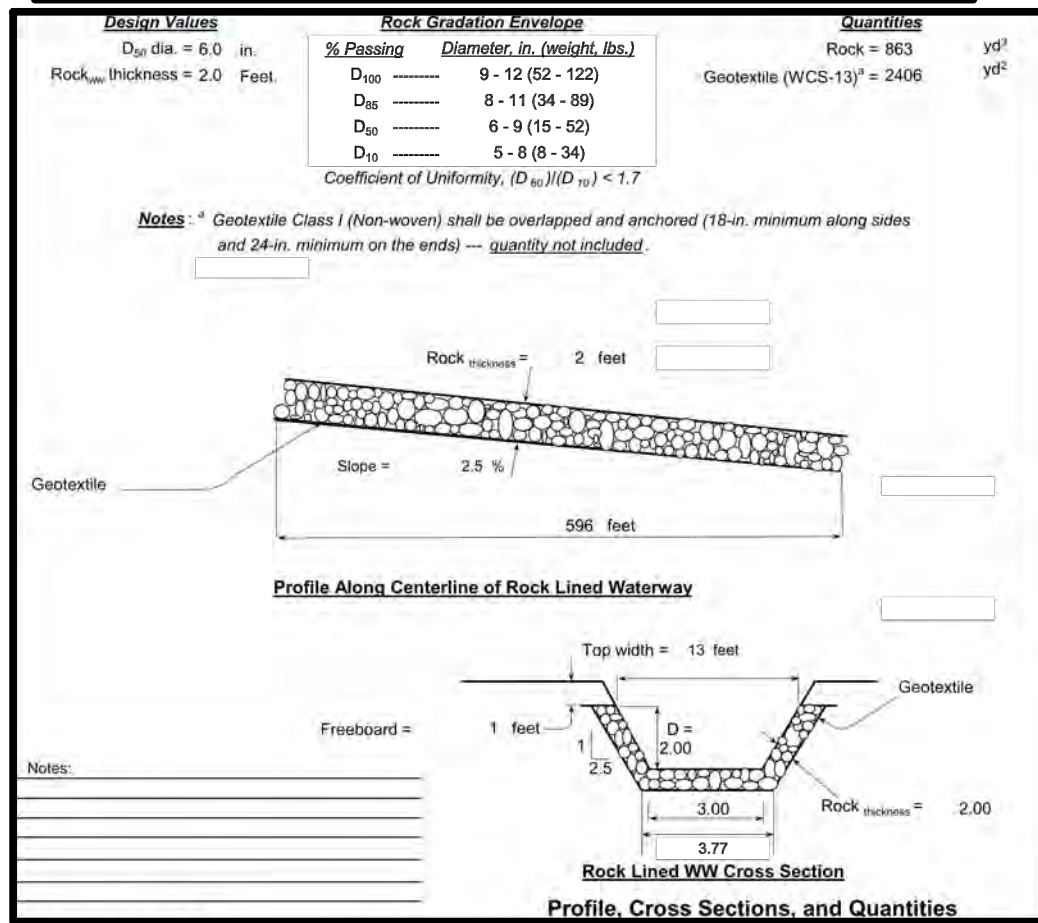
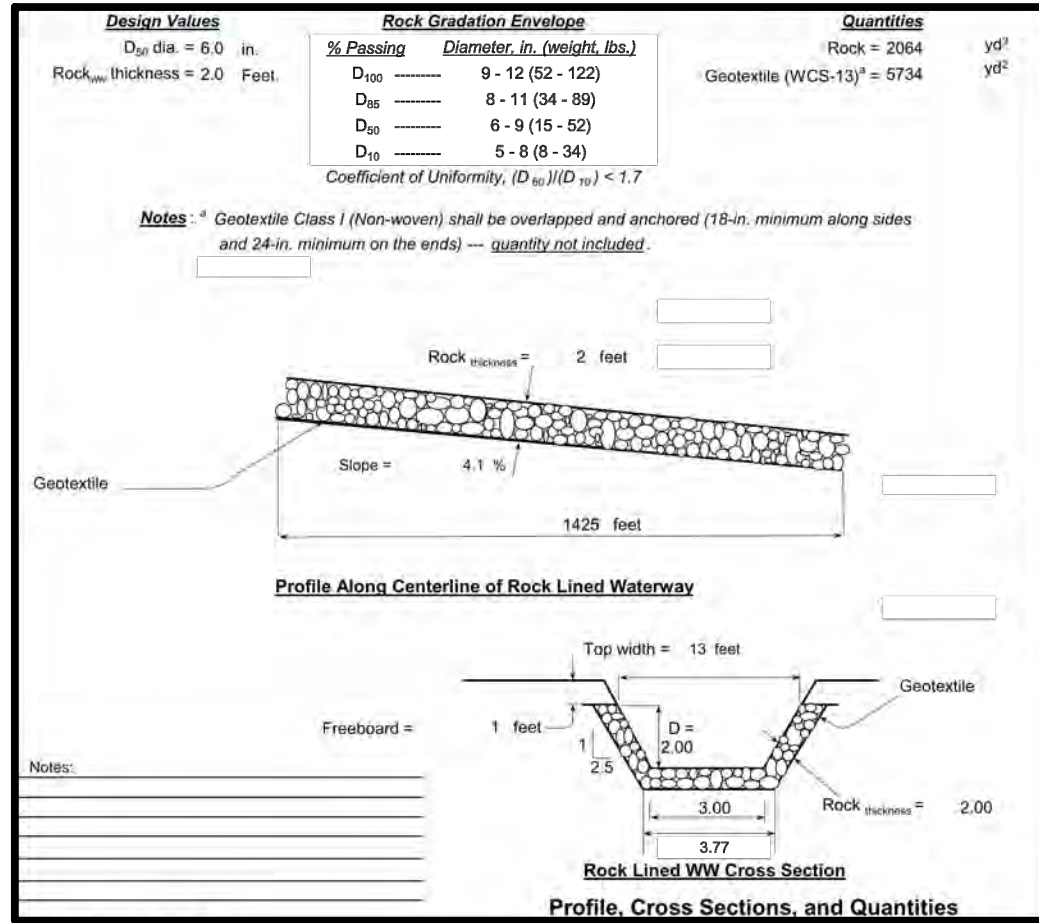
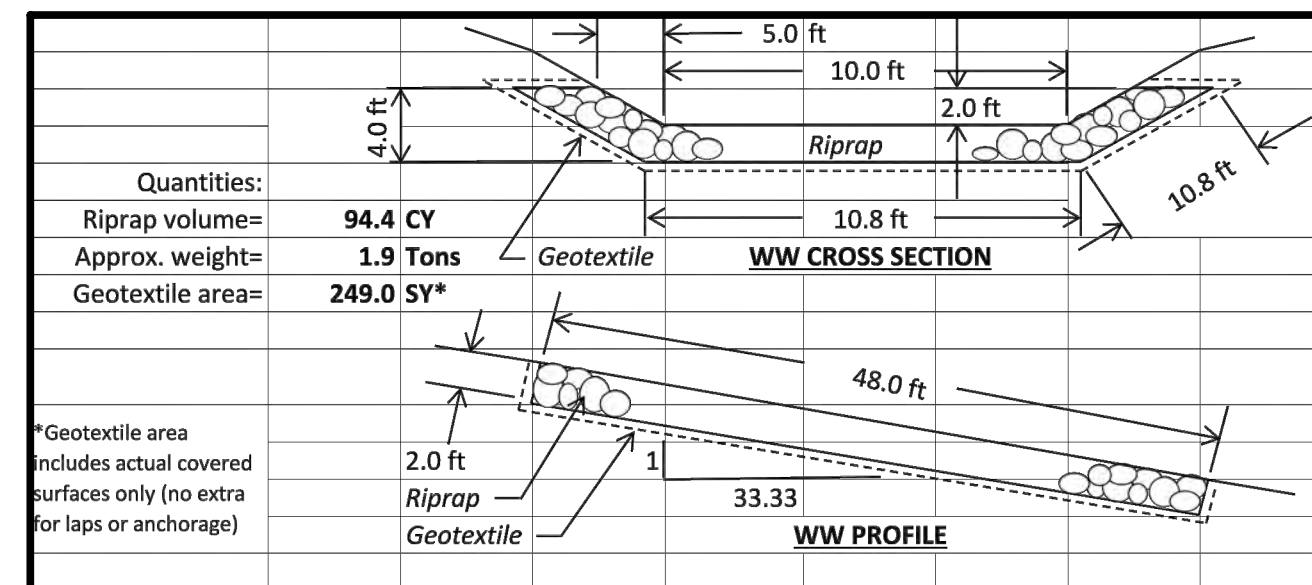
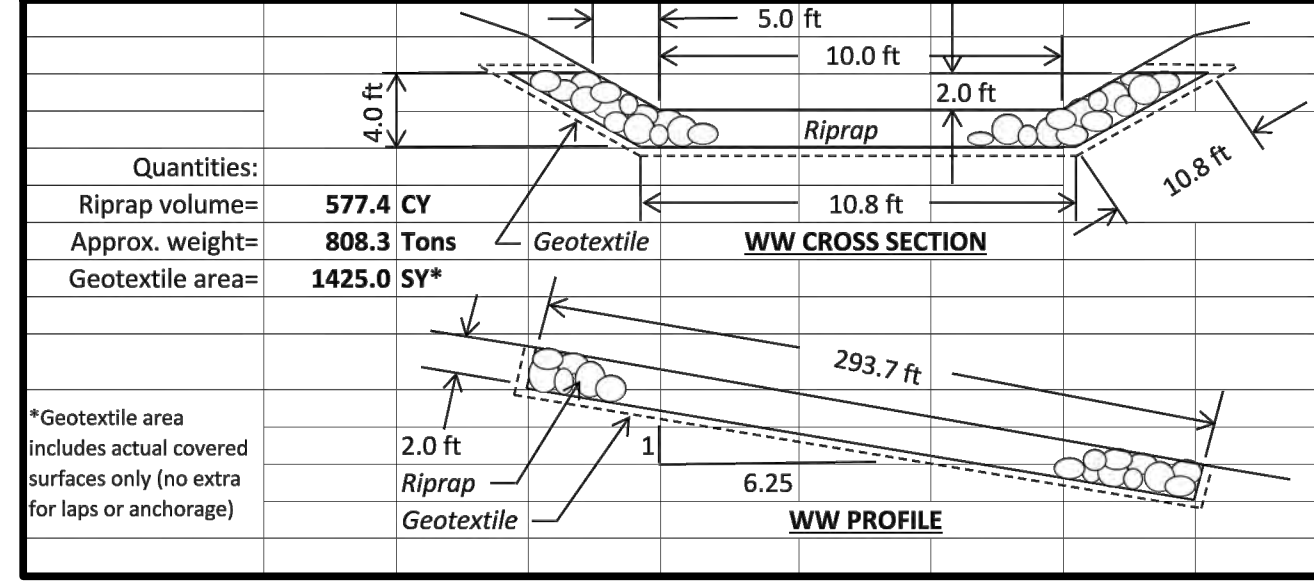
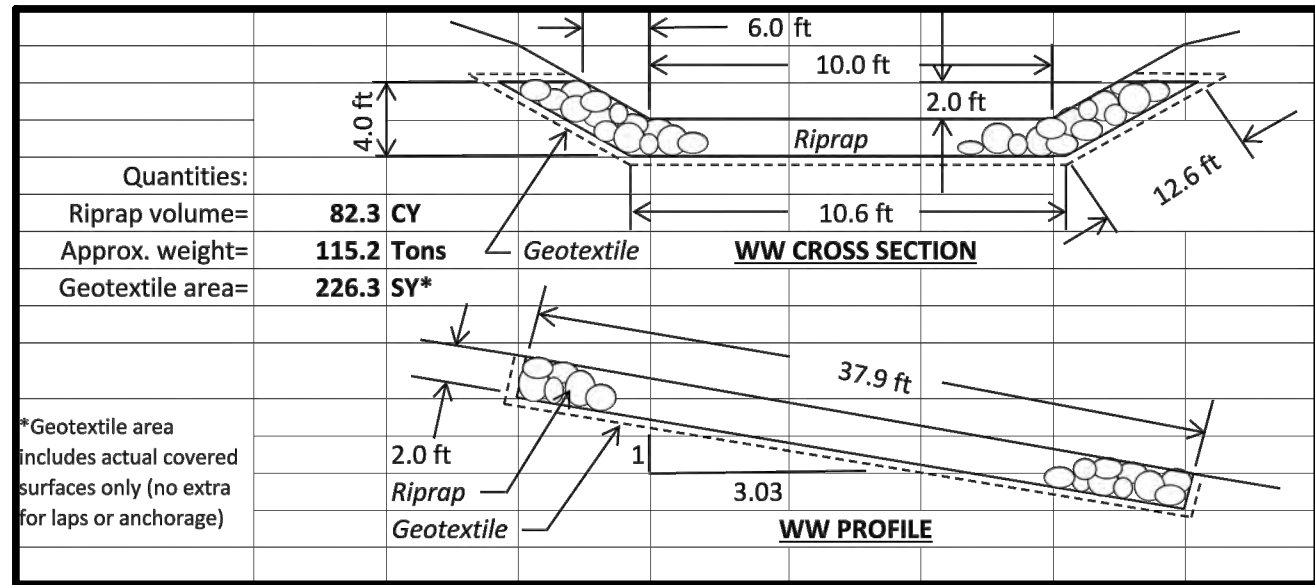
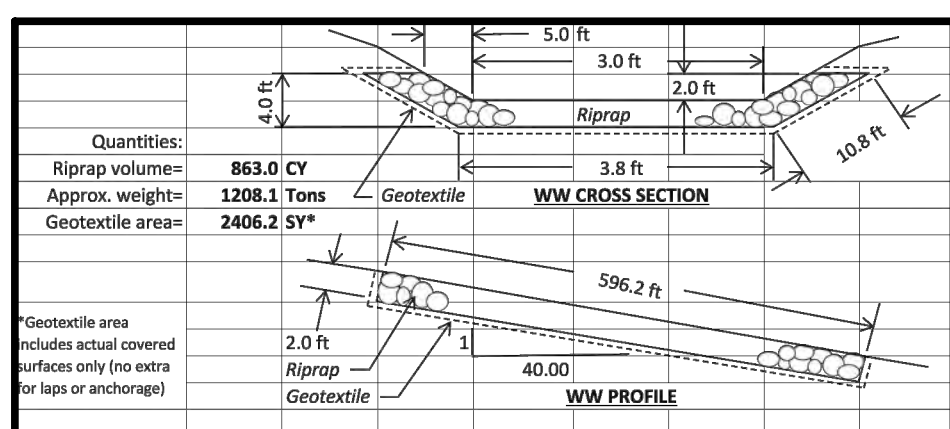
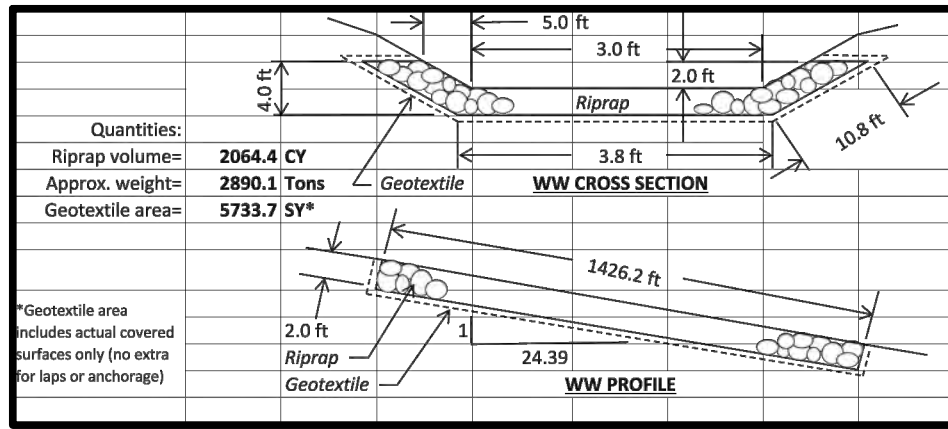


RIPRAP FOR OUTLETS A14 & B11 COMBINED
NOT TO SCALE

RIPRAP FOR OUTLET C11
NOT TO SCALE

RIPRAP FOR OUTLET G5
NOT TO SCALE

RIPRAP FOR OUTLET H5
NOT TO SCALE



NORTHERLY SWALE

SOUTHERLY SWALE

RIPRAP SWALE AT BASE OF SOUTHEAST SIDE OF THE BERM ALONG MEDWAY ABUTTERS LINE
NOT TO SCALE

RIPRAP FOR OUTLET OF INFILTRATION/DETENTION BASIN #2
NOT TO SCALE

RIPRAP FOR OUTLET F9
NOT TO SCALE

RIPRAP FOR OUTLET 9P
NOT TO SCALE

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REVISIONS		DATE		DESCRIPTION	
5	4	6/6/23	PEER REVIEW COMMENTS		
4	3	1/24/23	PEER REVIEW COMMENTS		
3	2	9/01/22	SITE PLAN APPROVAL		
2	1				
1	0				
DRAWN BY: WML		CHECKED BY: PSB		APPROVED BY: PSB	



ENGINEERING DESIGN CONSULTANTS, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

STORMWATER DETAILS 2
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 DETAILS
DATE: SEPTEMBER 1, 2022
DEFINITE PLAN NO: 27 & 36
27

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISED		DATE	DESCRIPTION
NO.	BY		
5	6/6/23	6/6/23 9/6/22	PEER REVIEW COMMENTS
4	1/24/23		PEER REVIEW COMMENTS
3	2		SITE PLAN APPROVAL
2	1		
1	0		
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 CALCULATION SHEETS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS

DRAIN CALCS

DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.:

28 of 36

28

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	I Syst (in/hr)	Total Runoff (cfs)	Known Q (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB A12 to DMH A13	18.02	2.034	2.034	0.79	6.0	0.02	6.0	7.89	12.68	1.50	16.09	0.00	1.90	16.09	36.52	18	0.1209	0.013	10.94	0.65	344.73	342.55	351.73	352.02
CB A10 to DMH A11	15.39	0.718	0.718	0.81	6.0	0.03	6.0	7.89	4.59	0.00	2.69	1.90	0.00	4.59	14.66	18	0.0195	0.013	2.60	0.58	345.10	344.80	352.91	353.08
CB A8 to DMH A9	12.23	1.511	1.511	0.80	6.0	0.03	6.0	7.89	9.54	0.00	9.54	0.00	0.00	9.54	9.96	18	0.009	0.013	5.40	1.18	346.53	346.42	353.05	353.35
CB A6 to DMH A7	18.69	2.613	2.613	0.79	6.0	0.03	6.0	7.89	16.29	0.00	23.87	0.00	7.57	23.87	14.98	18	0.0203	0.013	9.22	1.50	347.94	347.56	353.05	353.39
CB A4 to DMH A5	13.92	1.650	1.650	0.77	6.0	0.04	6.0	7.89	10.03	0.00	6.13	7.57	3.68	13.71	9.34	18	0.0079	0.013	5.68	1.39	349.71	349.60	354.42	354.45
CB A2 to DMH A3	27.23	0.533	0.533	0.74	6.0	0.06	6.0	7.89	3.11	0.00	1.52	1.59	0.00	3.11	5.59	12	0.0246	0.013	3.96	0.53	351.87	351.20	356.04	355.75
CB A1 to DMH A3	26.88	0.748	0.748	0.73	6.0	0.07	6.0	7.89	4.31	0.00	2.22	2.09	0.00	4.31	4.18	12	0.0138	0.013	5.49	0.85	351.57	351.20	355.74	355.75
DMH A3 to DMH A5	184.11	0.000	1.281	0.00	0.0	0.59	6.1	7.84	7.37	0.00	.....	.....	.....	.....	.....	18	0.006	0.013	4.17	1.12	350.70	349.59	355.75	354.45
DMH A5 to DMH A7	274.18	0.000	2.931	0.00	0.0	0.72	6.7	7.46	16.49	0.00	.....	.....	.....	.....	.....	24	0.006	0.013	5.25	1.54	349.10	347.45	354.45	353.39
DMH A7 to DMH A9	256.00	0.000	5.544	0.00	0.0	0.58	7.4	7.06	30.17	0.00	.....	.....	.....	.....	.....	30	0.006	0.013	6.15	1.94	346.95	345.41	353.39	353.35
DMH A9 to DMH A11	267.82	0.000	7.055	0.00	0.0	0.58	8.0	6.77	37.14	0.00	.....	.....	.....	.....	.....	30	0.0065	0.013	7.57	2.50	345.42	343.68	353.35	353.08
DMH A11 to DMH A13	261.61	0.000	7.773	0.00	0.0	0.51	8.6	6.52	39.54	0.00	.....	.....	.....	.....	.....	36	0.0075	0.013	7.03	1.82	343.70	341.73	353.08	352.02
DMH A13 to DMH A15	14.14	0.000	9.807	0.00	0.0	0.02	9.1	6.32	48.46	0.00	.....	.....	.....	.....	.....	36	0.0276	0.013	9.38	1.41	341.23	340.84	352.02	344.88
DMH A15 to HDWL	114.12	0.000	9.807	0.00	0.0	0.12	9.1	6.31	48.42	0.00	.....	.....	.....	.....	.....	36	0.0316	0.013	11.15	1.36	338.60	335.00	352.71	335.00

DRAINAGE SYSTEM A

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	I Syst (in/hr)	Total Runoff (cfs)	Known Q (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB B9 to DMH B10	45.09	0.133	0.133	0.89	6.0	0.10	6.0	7.89	0.93	0.00	0.93	0.00	0.00	0.93	9.78	12	0.0754	0.013	2.14	0.21	350.60	347.20	355.43	352.16
CB B6 to DMH B8	35.81	0.406	0.406	0.88	6.0	0.06	6.0	7.89	2.82	0.00	2.82	0.00	0.00	2.82	9.41	12	0.0698	0.013	6.86	0.38	351.53	349.03	355.67	353.72
CB B7 to DMH B8	30.93	0.351	0.351	0.88	6.0	0.06	6.0	7.89	2.44	0.00	2.44	0.00	0.00	2.44	7.71	12	0.0469	0.013	5.93	0.39	350.48	349.03	355.64	353.72
CB B4 to DMH B5	25.02	0.243	0.243	0.80	6.0	0.09	6.0	7.89	1.53	0.00	0.92	0.62	0.00	1.53	3.96	12	0.0124	0.013	2.63	0.43	350.19	349.88	354.36	353.72
CB B3 to DMH B5	24.83	0.303	0.303	0.82	6.0	0.08	6.0	7.89	1.96	0.00	1.09	0.87	0.00	1.96	4.04	12	0.0129	0.013	3.36	0.49	350.20	349.88	354.36	353.72
CB B1 to DMH B2	35.07	0.491	0.491	0.88	6.0	0.06	6.0	7.89	3.41	0.00	3.41	0.00	0.00	3.41	7.54	12	0.0448	0.013	4.76	0.47	352.00	350.43	356.83	354.88
DMH B2 to DMH B5	45.21	0.000	0.491	0.00	0.0	0.15	6.1	7.85	3.39	0.00	.....	.....	.....	.....	.....	12	0.01	0.013	5.14	0.78	350.33	349.88	354.88	353.72
DMH B5 to DMH B8	85.07	0.000	1.037	0.00	0.0	0.23	6.2	7.75	6.78	0.00	.....	.....	.....	.....	.....	18	0.01	0.013	5.75	0.88	349.38	348.53	353.72	353.72
DMH B8 to DMH B10	164.61	0.000	1.794	0.00	0.0	0.38	6.4	7.60	11.71	0.00	.....	.....	.....	.....	.....	24	0.01	0.013	4.80	1.02	348.03	346.38	353.72	352.16
DMH B10 to DMH B12	12.07	0.000	1.927	0.00	0.0	0.03	6.8	7.37	12.23	0.00	.....	.....	.....	.....	.....	24	0.0099	0.013	6.08	1.05	346.38	346.26	352.16	352.01
DMH B12 to HDWL B11	195.50	0.000	1.927	0.00	0.0	0.26	6.8	7.35	12.20	0.00	.....	.....	.....	.....	.....	24	0.0454	0.013	8.89	0.69	342.87	334.00	352.01	337.00

DRAINAGE SYSTEM B

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	I Syst (in/hr)	Total Runoff (cfs)	Known Q (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB C9 to DMH C10	87.86	0.482	0.482	0.88	6.0	0.13	6.0	7.89	3.35	0.00	3.35	0.00	0.00	3.35	10.20	12	0.0821	0.013	7.99	0.39	353.38	346.17	357.56	357.81
CB C7 to DMH C8	93.70	0.895	0.895	0.83	6.0	0.12	6.0	7.89	5.86	0.00	5.86	0.00	0.00	5.86	9.33	12	0.0686	0.013	9.71	0.58	348.32	341.89	352.53	354.57
CB C5 to DMH C6	79.76	0.546	0.546	0.83	6.0	0.14	6.0	7.89	3.58	0.00	3.58	0.00	0.00	3.58	7.41	12	0.0433	0.013	7.01	0.49	347.11	343.66	351.31	353.60
CB C4 to DMH C6	81.89	0.546	0.546	0.83	6.0	0.15	6.0	7.89	3.58	0.00	3.58	0.00	0.00	3.58	7.31	12	0.0421	0.013	6.99	0.49	347.11	343.66	351.31	353.60
CB C2 to DMH C3	79.65	0.546	0.546	0.83	6.0	0.26	6.0	7.89	3.58	0.00	3.58	0.00	0.00	3.58	3.57	12	0.01	0.013	5.18	0.82	347.11	346.31	351.32	353.60
CB C1 to DMH C3	82.52	0.546	0.546	0.83	6.0	0.27	6.0	7.89	3.58	0.00	3.58	0.00	0.00	3.58	3.57	12	0.0101	0.013	5.18	0.82	347.12	346.29	351.34	353.60
DMH C3 to DMH C6	262.83	0.000	1.092	0.00	0.0	0.69	6.3	7.71	6.99	0.00	.....	.....	.....	.....	.....	18	0.01	0.013	5.90	0.89	345.79	343.16	353.60	353.60
DMH C6 to DMH C8	177.72	0.000	2.184	0.00	0.0	0.40	7.0	7.29	13.21	0.00	.....	.....	.....	.....	.....	24	0.01	0.013	5.19	1.10	342.66	340.89	353.60	354.57
DMH C8 to DMH C10	269.06	0.000	3.079	0.00	0.0	0.57	7.4	7.07	18.06	0.00	.....	.....	.....	.....	.....	24	0.01	0.013	6.44	1.35	340.89	339.20	354.57	357.81
DMH C10 to DMH C12	213.95	0.000	3.561	0.00	0.0	0.45	7.9	6.79	20.23	0.00	.....	.....	.....	.....	.....	24	0.0097	0.013	7.74	1.49	338.20	336.12	357.81	343.00
DMH C12 to HDWL C11	120.56	0.000	3.561	0.00	0.0	0.25	8.4	6.59	19.63	0.00	.....	.....	.....	.....	.....	24	0.0103	0.013	7.69	1.42	336.12	334.88	343.00	337.00

DRAINAGE SYSTEM C

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	I Syst (in/hr)	Total Runoff (cfs)	Known Q (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
DMH F1 to DMH F2	227.50	3.156	3.156	0.90	6.0	0.57	6.0	7.89	22.42	0.00	....	....	....	....	29.91	30	0.0053	0.013	5.42	1.61	350.11	348.90	355.91	359.57
DMH F2 to DMH F3	227.50	0.000	3.156	0.00	0.0	0.59	6.6	7.52	21.35	0.00	....	....	....	....	29.03	30	0.005	0.013	4.61	1.59	348.97	347.83	359.57	358.02
DMH F3 to DMH F4	246.35	0.000	3.156	0.00	0.0	0.66	7.2	7.17	20.38	0.00	....	....	....	....	28.98	30	0.005	0.013	6.58	1.55	347.83	346.60	358.02	361.38
DMH F4 to DMH F8	246.36	0.000	3.156	0.00	0.0	0.67	7.8	6.84	19.44	0.00	....	....	....	....	28.98	30	0.005	0.013	6.33	1.50	346.60	345.37	361.38	355.97
DMH F5 to DMH F6	227.50	3.156	3.156	0.90	6.0	0.58	6.0	7.89	22.42	0.00	....	....	....	....	29.03	30	0.005	0.013	6.37	1.65	349.23	348.09	355.90	359.57
DMH F6 to DMH F7	227.50	0.000	3.156	0.00	0.0	0.60	6.6	7.51	21.33	0.00	....	....	....	....	28.90	30	0.005	0.013	5.01	1.60	348.09	346.96	359.57	359.32
DMH F7 to DMH F8	275.06	0.000	3.156	0.00	0.0	0.73	7.2	7.17	20.35	0.00	....	....	....	....	29.05	30	0.005	0.013	6.40	1.54	346.96	345.58	359.32	355.97
DMH F8 to HDWL F9	129.27	0.000	6.312	0.00	0.0	0.23	8.5	6.55	37.19	0.00	....	....	....	....	66.37	36	0.0099	0.013	6.47	1.61	341.60	340.32	355.97	344.14

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED BY THE OWNER AND THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE RELEVANT TOWN DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
- IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE DETAILS.
- THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE HAY BALE DIKES ALONG THE PERIMETER OF CUTS AND FILLS, MULCHING, AND PLANTING OF DISTURBED AREAS AS SOON AS PRACTICABLE.
- AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED.
- AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN.
- THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR IS TO CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 811.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- ALL REINFORCED CONCRETE PIPE IS TO BE CLASS III WHEN GREATER THAN 36" OF COVER EXISTS. LESS THAN 36" SHALL BE CLASS V RCP. ALL PVC SANITARY SEWER IS TO BE SDR 35 WITH RUBBER RING JOINTS. ALL PVC STORM DRAIN (PERFORATED OR SOLID) SHALL BE SDR 35, ADS TYPE N12 POLYETHYLENE PIPE OR APPROVED EQUAL; EXCEPT FOR ROOF DRAINS WHICH SHALL BE DUCTILE IRON. WATER MAIN IS TO BE CLASS 52 CEMENT LINED DUCTILE IRON.
- THE TOWN OF HOLLISTON DEPARTMENT OF PUBLIC WORKS IS TO BE NOTIFIED PRIOR TO THE START OF WORK ON HOPPING BROOK ROAD.
- PAVEMENT AREAS SHALL HAVE 12 INCHES OF GOOD, CLEAN BANK-RUN GRAVEL, CONFORMING TO MDPW M1.03.1, WITH NO STONES LARGER THAN 3" IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
- STANDARD PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 4" MEASURED AFTER COMPACTION, WITH A 2" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- HEAVY DUTY PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 6" MEASURED AFTER COMPACTION, WITH A 4" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE "COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES", 1988 EDITION SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN SECTION 460.20 AND 460.82.
- ANY EXISTING PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OUTSIDE "LIMIT OF WORK" AREAS OR OTHERWISE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH A FULL DEPTH OF PAVEMENT SECTION AS SHOWN ON THE TRENCH PATCHING DETAIL INDICATED HEREON.
- EROSION CONTROL GRASS MIXTURE (SIDE SLOPE GREATER THAN 4 HORIZONTAL TO 1 VERTICAL) FOLLOWING COMPLETION OF GRADING. THE FOLLOWING SEED MIX SHALL BE APPLIED:

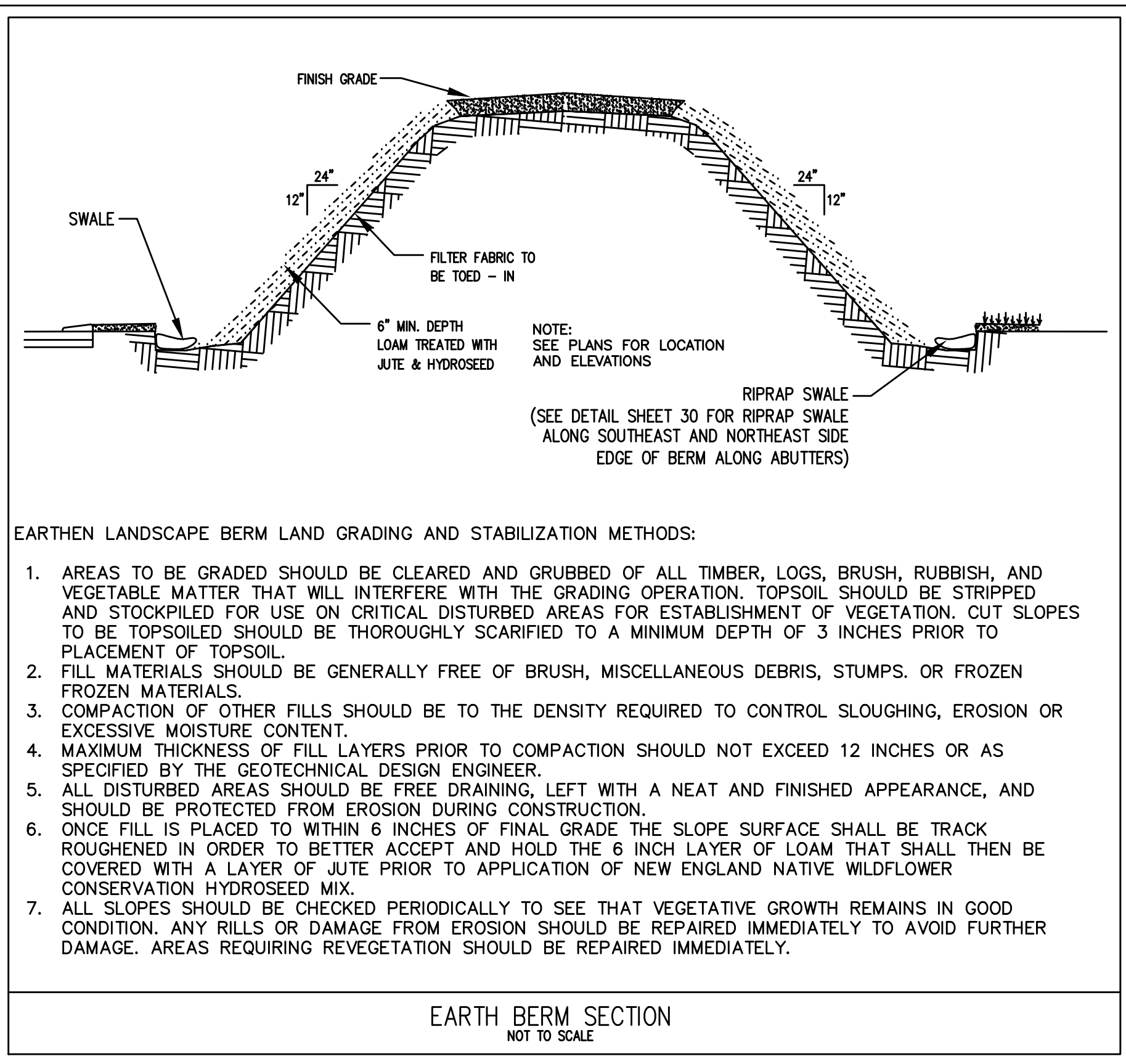
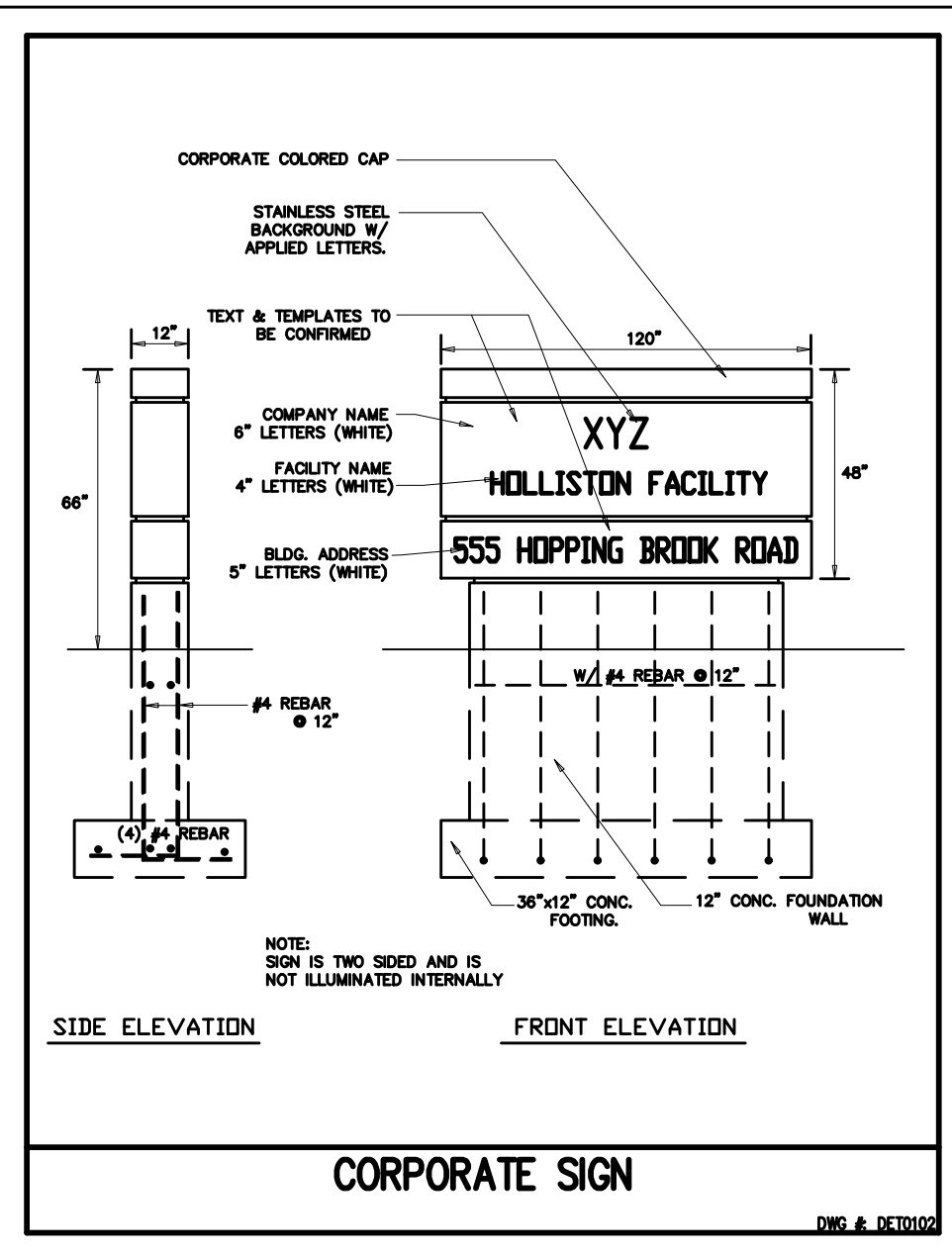
TYPE OF SEED	% BY WEIGHT
CREEPING RED FESCUE	30

TALL FESCUE 30
WHITE DUTCH CLOVER 30
RED TOP 10

ADD 3 LBS. PER ACRE AMERICAN MEADOWS NORTHEAST POLLINATOR WILDFLOWER SEED MIX TO THE SEED MIXTURE LISTED ABOVE AND SOW THE OVERALL SEED AT THE RATE OF 2#/2,000 SF AND INCLUDE 1/2 BUSHEL/ACRE OF WINTER RYE TO ALL PLANTED SURFACES FOR QUICK TURF GROWTH PROTECTION

18. ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDED WITH A MINIMUM OF 6" OF TOP SOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.

19. ALL STUMPS, TOP SOIL, SUB SOIL AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED BUILDING AND PAVING AREAS.



EARTHEN LANDSCAPE BERM LAND GRADING AND STABILIZATION METHODS:

- AREAS TO BE GRADED SHOULD BE CLEARED AND GRUBBED OF ALL TIMBER, LOGS, BRUSH, RUBBISH, AND VEGETABLE MATTER THAT WILL INTERFERE WITH THE GRADING OPERATION. TOPSOIL SHOULD BE STRIPPED AND STOCKPILED FOR USE ON CRITICAL DISTURBED AREAS FOR ESTABLISHMENT OF VEGETATION. CUT SLOPES TO BE TOPSOILED SHOULD BE THOROUGHLY SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- FILL MATERIALS SHOULD BE GENERALLY FREE OF BRUSH, MISCELLANEOUS DEBRIS, STUMPS. OR FROZEN FROZEN MATERIALS.
- COMPACTION OF OTHER FILLS SHOULD BE TO THE DENSITY REQUIRED TO CONTROL SLOUGHING, EROSION OR EXCESSIVE MOISTURE CONTENT.
- MAXIMUM THICKNESS OF FILL LAYERS PRIOR TO COMPACTION SHOULD NOT EXCEED 12 INCHES OR AS SPECIFIED BY THE GEOTECHNICAL DESIGN ENGINEER.
- ALL DISTURBED AREAS SHOULD BE FREE DRAINING, LEFT WITH A NEAT AND FINISHED APPEARANCE, AND SHOULD BE PROTECTED FROM EROSION DURING CONSTRUCTION.
- ONCE FILL IS PLACED TO WITHIN 6 INCHES OF FINAL GRADE THE SLOPE SURFACE SHALL BE TRACK ROUGHENED IN ORDER TO BETTER ACCEPT AND HOLD THE 6 INCH LAYER OF LOAM THAT SHALL THEN BE COVERED WITH A LAYER OF JUTE PRIOR TO APPLICATION OF NEW ENGLAND NATIVE WILDFLOWER CONSERVATION HYDROSEED MIX.
- ALL SLOPES SHOULD BE CHECKED PERIODICALLY TO SEE THAT VEGETATIVE GROWTH REMAINS IN GOOD CONDITION. ANY RILLS OR DAMAGE FROM EROSION SHOULD BE REPAIRED IMMEDIATELY TO AVOID FURTHER DAMAGE. AREAS REQUIRING REVEGETATION SHOULD BE REPAIRED IMMEDIATELY.

SOIL TESTS PERFORMED BY: PETER BEMIS, ON OCTOBER 3&4, 2019.

DEEP HOLE: TP#1	ELEV.
6" A	368.4
36" Bw	367.9
120" C	365.4
BOE REFUSAL	358.4
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#3	ELEV.
6" A	367.0
36" Bw	367.5
156" C	364.5
BOE REFUSAL	354.5
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#5	ELEV.
6" A	371.6
36" Bw	372.1
156" C	369.1
BOE	359.1
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#7	ELEV.
6" A	370.2
36" Bw	370.7
138" C	367.7
BOE BOULDERS	359.2
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#9	ELEV.
6" A	357.1
36" Bw	357.6
168" C	354.6
BOE	343.6
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#11	ELEV.
6" A	306.9
36" Bw	307.4
72" C	304.4
BOE	301.4
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#2	ELEV.
6" A	362.5
36" Bw	363.0
96" C	360.0
BOE REFUSAL	355.0
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#4	ELEV.
6" A	370.6
36" Bw	371.1
156" C	368.1
BOE	358.1
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#6	ELEV.
6" A	371.7
36" Bw	372.2
156" C	369.2
BOE	359.2
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#8	ELEV.
6" A	370.0
36" Bw	370.5
156" C	367.5
BOE	357.5
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#10	ELEV.
6" A	347.2
36" Bw	347.7
174" C	344.7
BOE	333.2
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#12	ELEV.
6" A	307.5
36" Bw	308.0
72" C	305.0
BOE	302.0
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

SOIL TESTS PERFORMED BY: PETER BEMIS ON JUNE 1, 2021 WITNESSED BY SCOTT MOLES HOLLISTON BOH.

DEEP HOLE: TP#1(6-1-21)	ELEV.
24" A	278.8
36" Bw	279.2
84" A	271.8
144" C	271.8
BOE	358.4
SOIL CLASS: CLASS II	
OBSERVED GW: 108"	

DEEP HOLE: TP#2(6-1-21)	ELEV.
6" A	291.2
30" Bw	291.7
30" A	289.2
78" C	289.2
BOE	285.2
SOIL CLASS: CLASS II	
OBSERVED GW: 48"	

DEEP HOLE: TP#3(6-1-21)	ELEV.
6" A	297.1
30" Bw	297.6
30" A	295.1
78" C	295.1
BOE	291.1
SOIL CLASS: CLASS II	
OBSERVED GW: 54"	

SOIL TESTS PERFORMED BY: PETER BEMIS ON SEPTEMBER 30, 2022 WITNESSED BY SCOTT MOLES HOLLISTON BOH.

DEEP HOLE: TP#200	ELEV.
6" A	335.0
36" Bw	335.5
108" C	332.0
BOE	326.0
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#201	ELEV.
6" A	334.8
36" Bw	335.3
108" C	332.3
BOE	326.3
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#202	ELEV.
6" A	337.3
36" Bw	337.8
108" C	334.3
BOE	328.3
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

DEEP HOLE: TP#203	ELEV.
6" A	337.0
36" Bw	337.5
108" C	334.5
BOE	328.5
SOIL CLASS: CLASS II	
OBSERVED GW: NONE	

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DRAWN BY: WML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:

NO.	DATE	DESCRIPTION
5		
4		
3		
2		
1	6/6/23	PEER REVIEW COMMENTS
1	1/24/23	PEER REVIEW COMMENTS
1	9/9/22	DATE



PREPARED BY:



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

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

CONSTRUCTION NOTES, DETAILS & SITE TEST PIT DATA
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 DETAILS

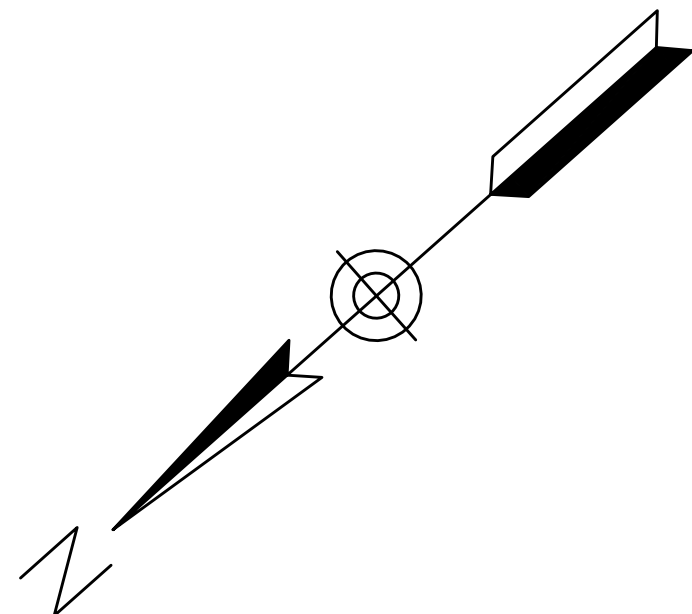
DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.:

29 of 36

29

ALL RIGHTS RESERVED



LEGEND	
SYMBOL	DESCRIPTION
2S	SUBCATCHMENT LABEL
1L	LINK SUMMARY LOCATION
	SUBCATCHMENT AREA OUTLINE
	TIME OF CONCENTRATION LINE

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

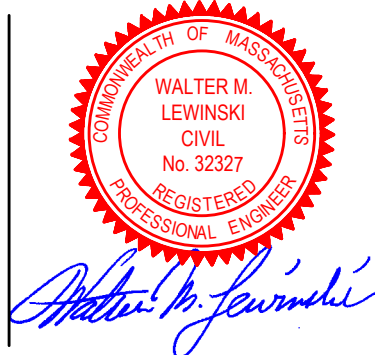
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DRWN BY:	WML
CHK'D BY:	PSB
APRVD BY:	PSB

REV #	REVISIONS
5	
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3	
2	
1	
0	

DATE	DESCRIPTION
6/6/23	PEER REVIEW COMMENTS
1/24/23	PEER REVIEW COMMENTS
9/01/22	SITE PLAN APPROVAL



PREPARED BY



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

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

PROJECT

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

|| TITLE:

PRE-DEVELOPMENT RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

NO.: 3780 SITE PLANS

E-DEV

SEPTEMBER 1, 2002

SEPTEMBER 1, 2022

INITIATIVE PLAN NO.: 30 - 36

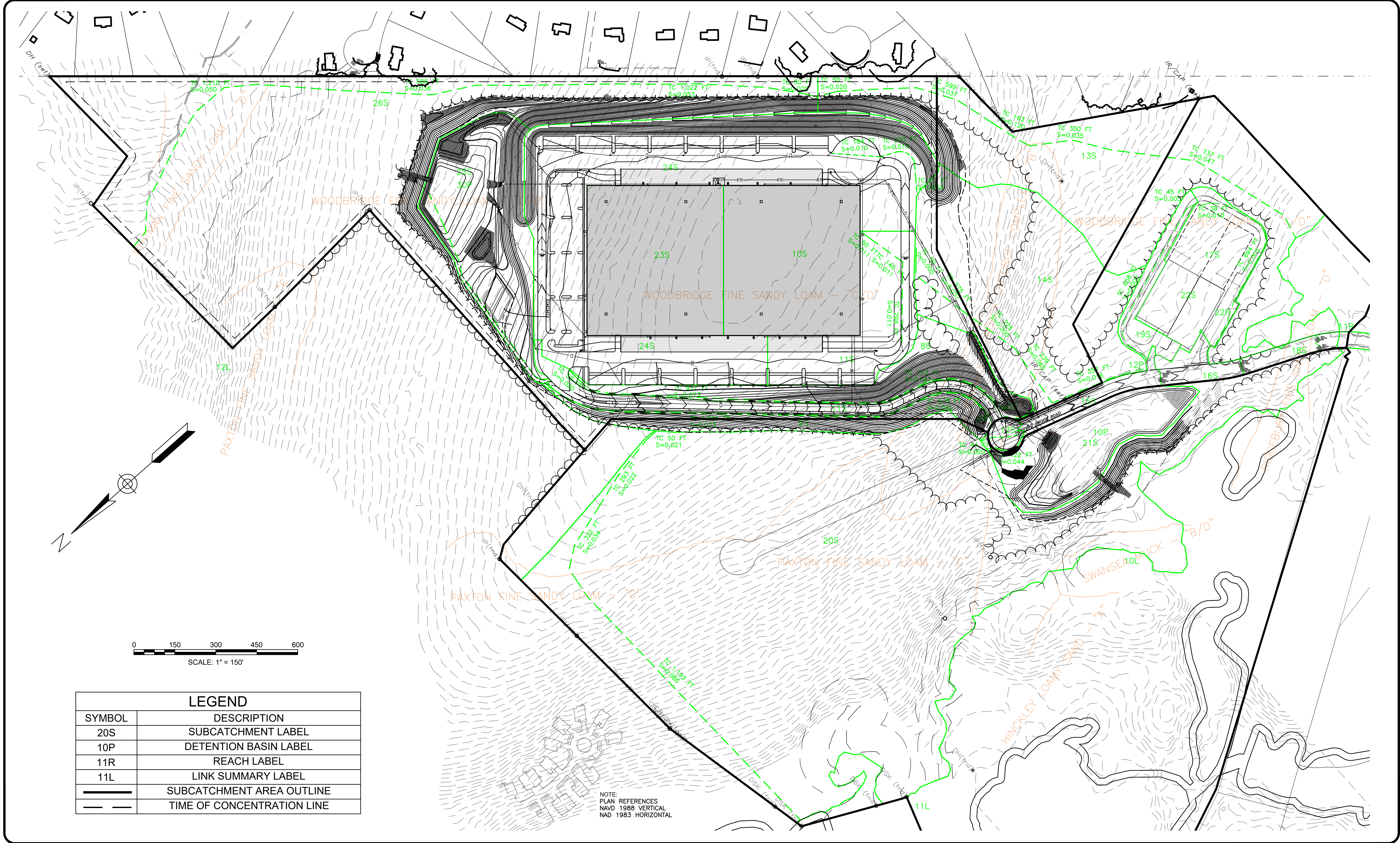
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LEGEND	
SYMBOL	DESCRIPTION
20S	SUBCATCHMENT LABEL
10P	DETENTION BASIN LABEL
11R	REACH LABEL
11L	LINK SUMMARY LABEL
—	SUBCATCHMENT AREA OUTLINE
---	TIME OF CONCENTRATION LINE

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REVISIONS	
REV	DATE
5	6/6/23
4	1/24/23
3	9/01/22
2	
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REV	DATE
DESCRIPTION	



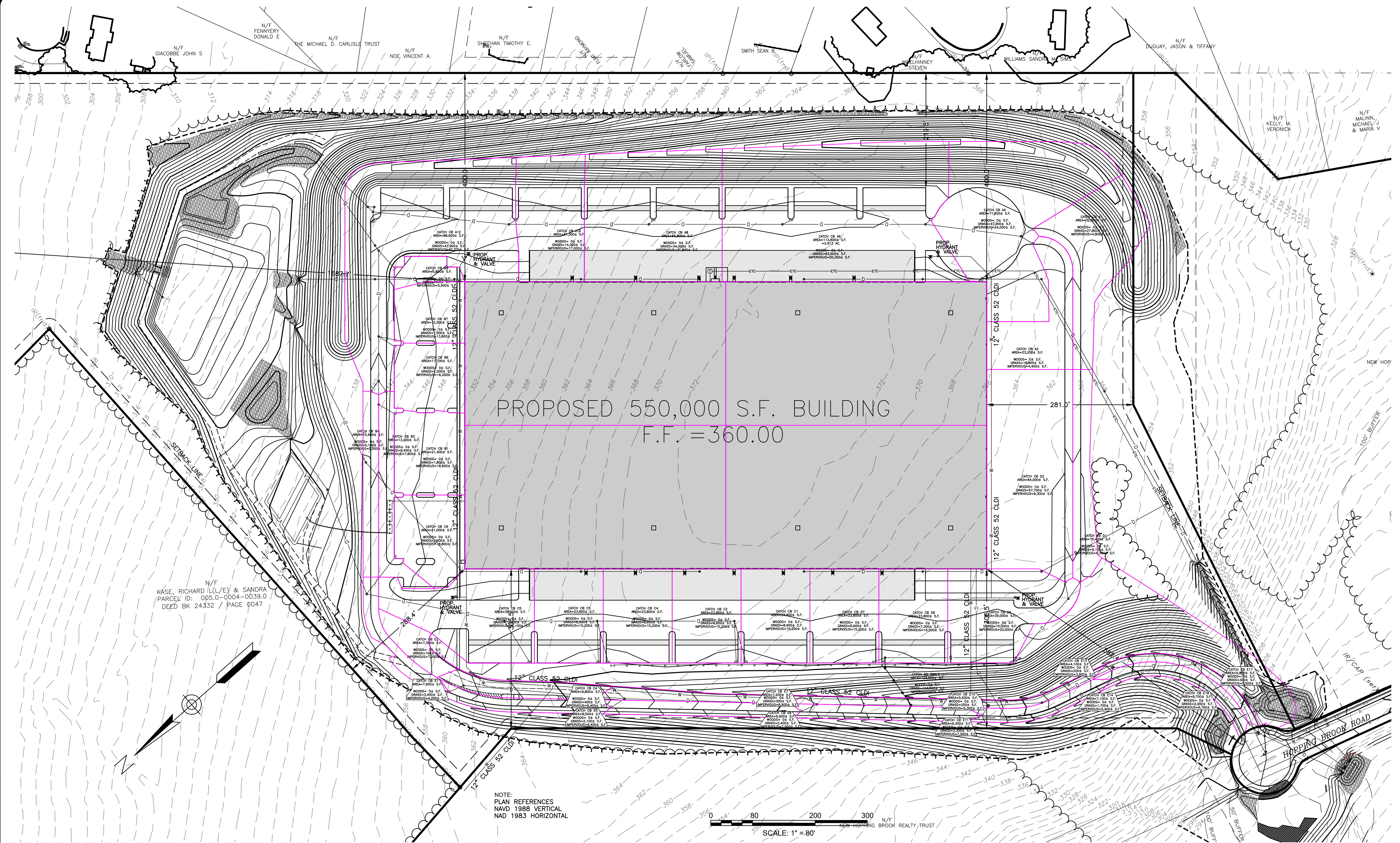
PREPARED BY:
EDC Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

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

TITLE:
POST-DEVELOPMENT RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS
POST-DEV
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO:
31 of 36
31

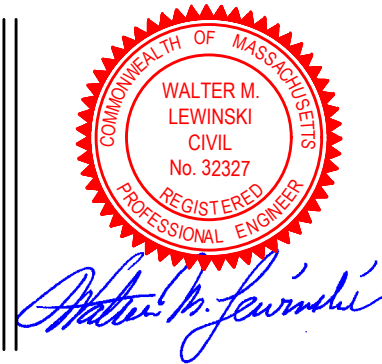
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REVISED		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
6/6/23	PEER REVIEW COMMENTS	6/6/23	PEER REVIEW COMMENTS
1/24/23	PEER REVIEW COMMENTS	1/24/23	PEER REVIEW COMMENTS
9/01/22	SITE PLAN APPROVAL	9/01/22	SITE PLAN APPROVAL
REV 1		REV 1	



PREPARED BY:
EDC
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)

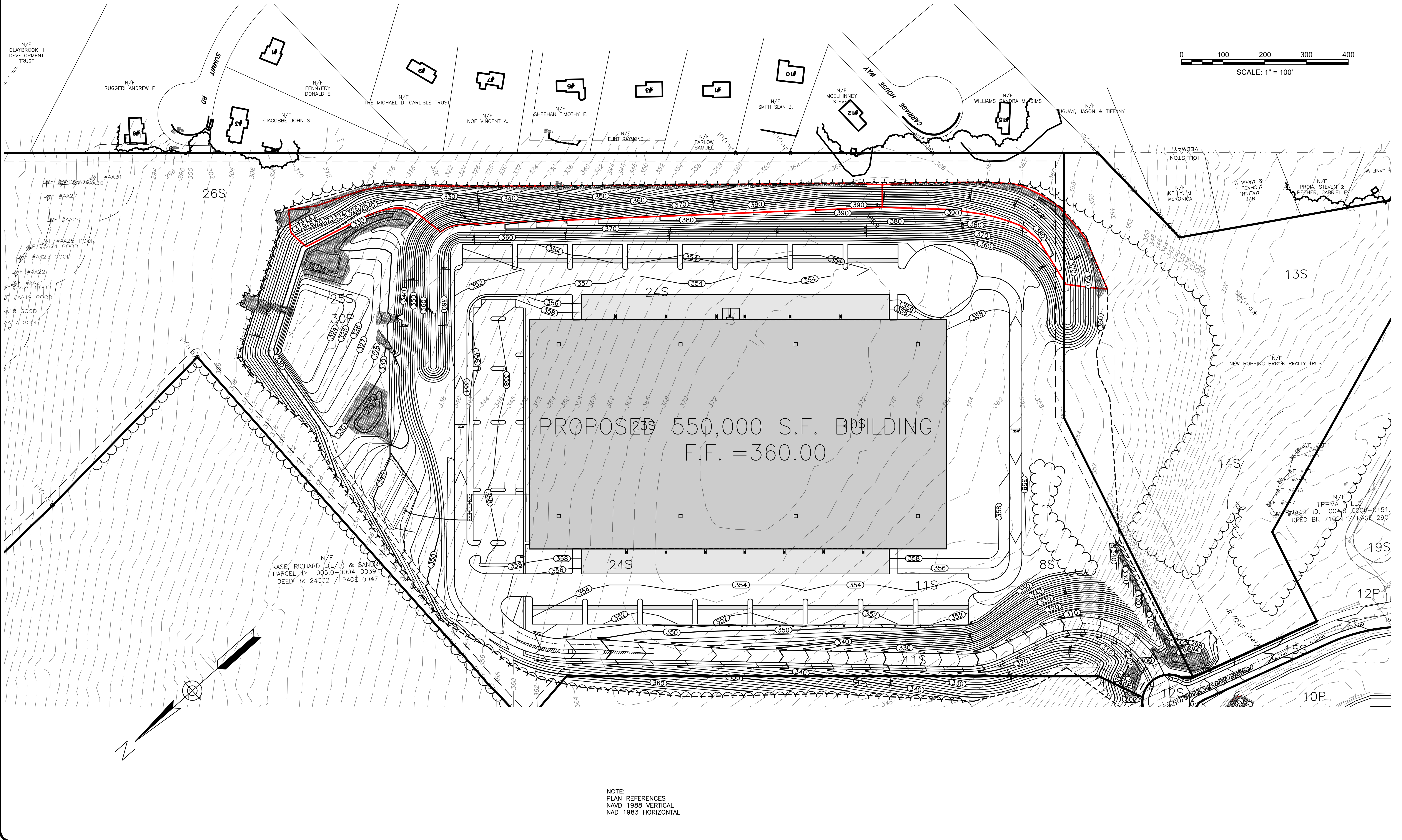
TITLE:
STORM DRAINAGE RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS
RUNOFF 25
DATE: SEPTEMBER 1, 2022
DEFINITE PLAN NO.:
32 of 36
32

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NOTE:
PLAN REFERENCES
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NAD 1983 HORIZONTAL

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REVISIONS			
REV	DATE	DESCRIPTION	
5			
4			
3			
2	6/6/23	PEER REVIEW COMMENTS	
1	1/24/23	PEER REVIEW COMMENTS	
0	9/01/22	SITE PLAN APPROVAL	



PREPARED BY:
EDC 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:
SWALE RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS
SWALES

DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO:
33 of 36
33

SCHEDULE

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LLF	WATTAGE
	PL1	40	Lithonia Lighting	DSXO LED P3 30K BLC MVOLT	DSXO LED P3 30K BLC MVOLT	0.9	71
	PL3	16	Lithonia Lighting	DSXO LED P3 30K T5M MVOLT	DSXO LED P3 30K T5M MVOLT	0.9	213
	PL4	6	Lithonia Lighting	DSXO LED P3 30K T5M MVOLT	DSXO LED P3 30K T5M MVOLT	0.9	284
	W1	26	Lithonia Lighting	DSXW1 LED 20C 1000 30K TFTM MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE TFTM OPTIC, 3000K, @ 1000mA.	0.9	73.2
	W2	12	Lithonia Lighting	DSXW1 LED 20C 700 30K T2S MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2S OPTIC, 3000K, @ 700mA.	0.9	45.7

STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
Calc Zone #2		0.6 fc	9.0 fc	0.0 fc	N/A	N/A

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

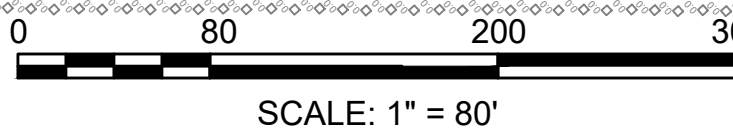
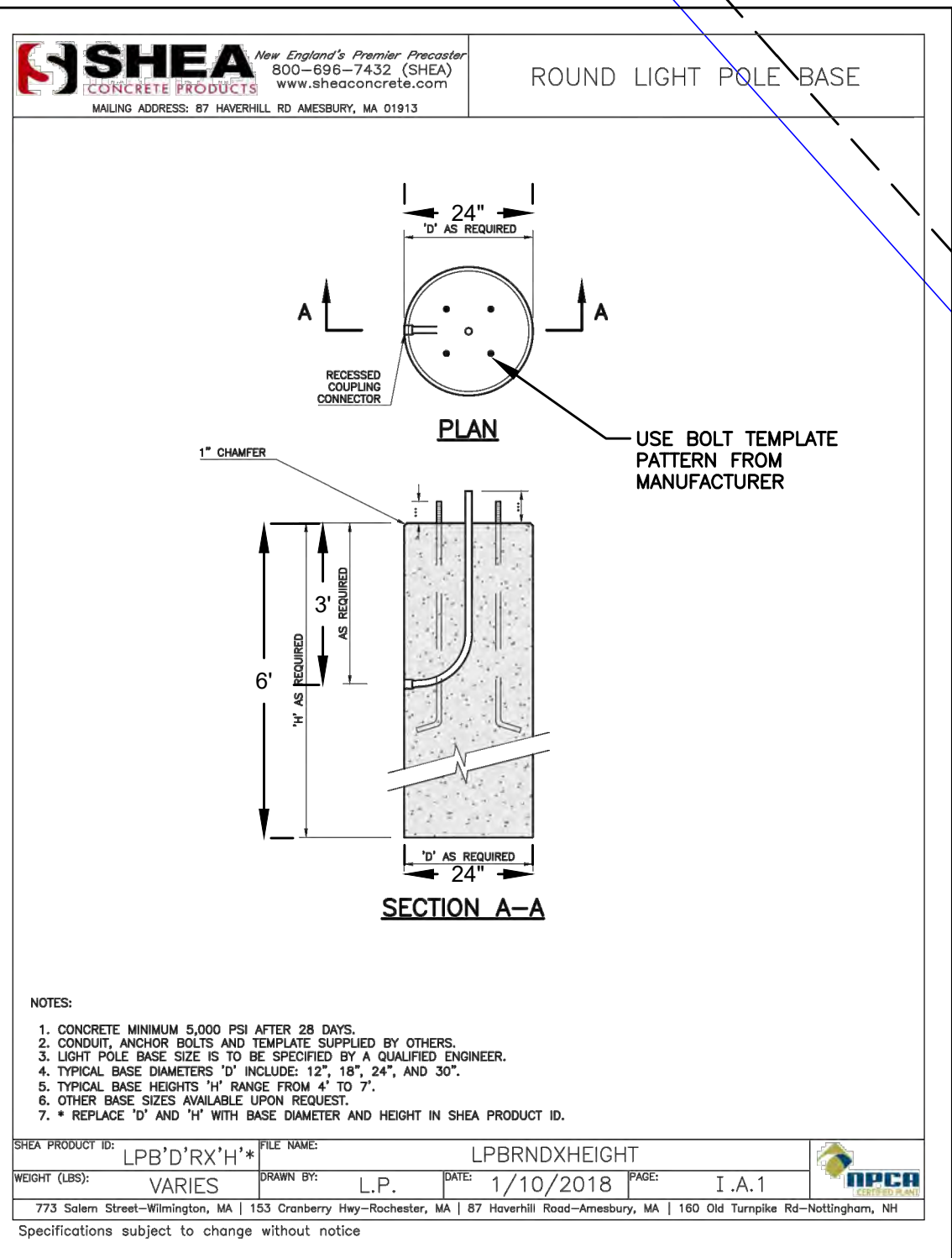


SETBACK LINE

PROPOSED 550,000 S.F. BUILDING
F.F. = 360.00

LITHONIA LIGHTING DSXW1 WALL MOUNTED LED

LITHONIA LIGHTING DSXO POLE MOUNTED LED



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CONTRACTORS EMPLOYEES; OR FOR THE FAILURE OF THE
CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE
WITH THE CONTRACT DOCUMENTS.

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THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS
THIRD PARTY COSTS.

REVISED	DATE	DESCRIPTION
5	6/6/23	PEER REVIEW COMMENTS
4	1/24/23	PEER REVIEW COMMENTS
3	9/6/22	SITE PLAN APPROVAL
2		
1		
0		

DRAWN 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:

LIGHTING
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

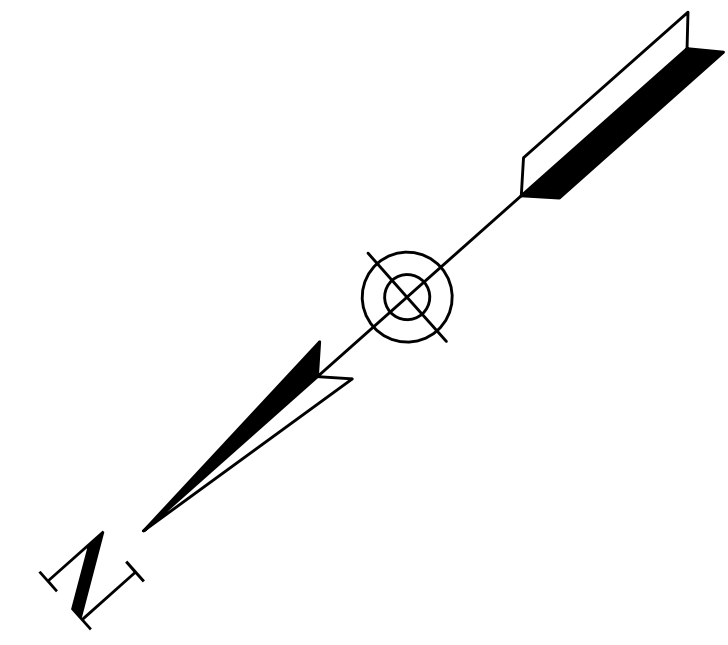
FILE NO:	LIGHTING
DATE:	SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:	35 of 36
	35

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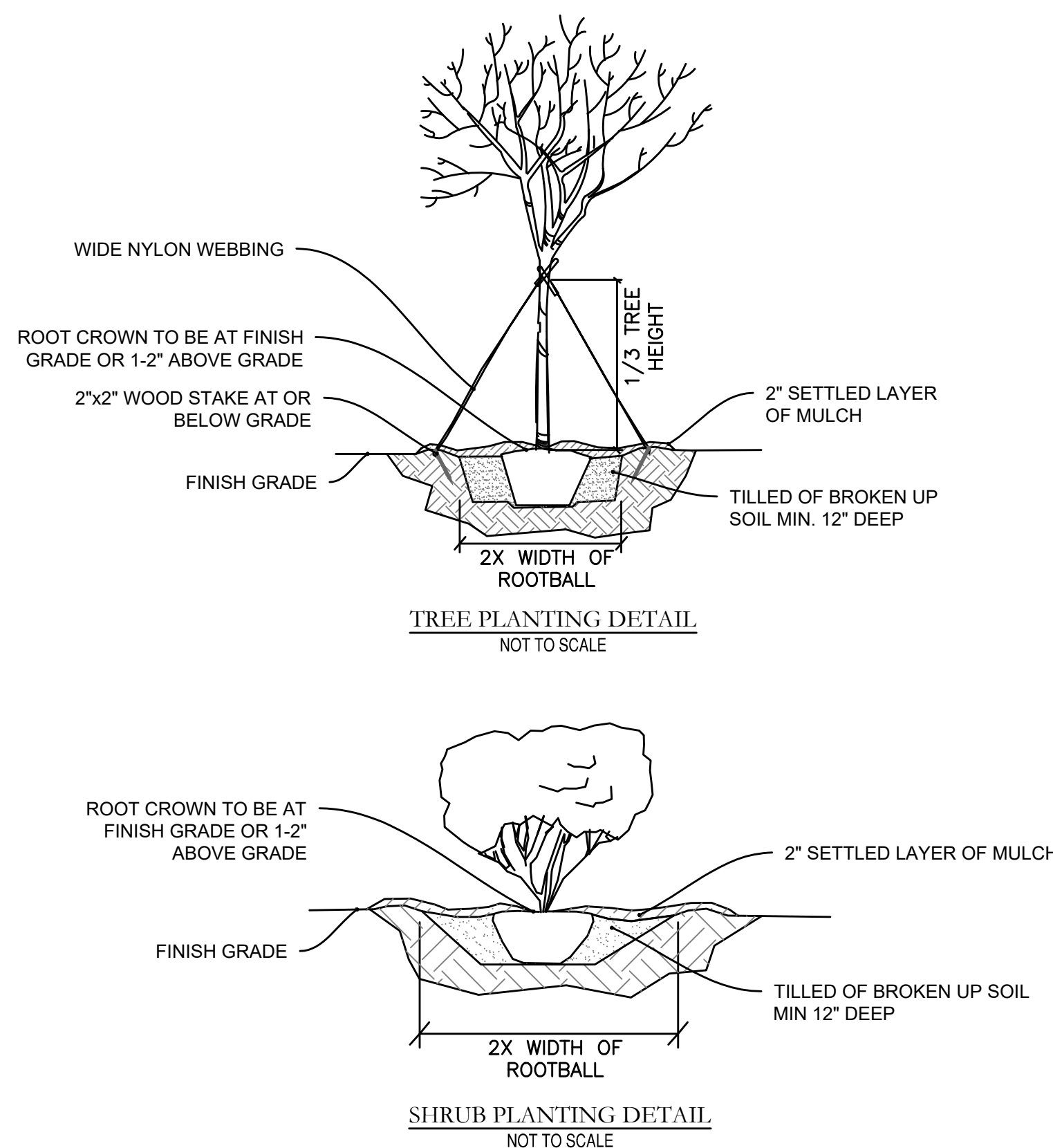
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NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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



GENERAL NOTES:
1. ALL SLOPES & LAWN LIMITS THAT ARE NOT TO BE
MAINTAINED AS MANICURED SHALL BE TREATED WITH AN
EROSION CONTROL SEED MIX THAT SHALL INCLUDE NATIVE
WILDFLOWER SEED MIX IN ORDER TO ENCOURAGE HABITAT
FOR POLLINATOR SPECIES. SLOPES THAT ARE LESS THAN
5:1 SHALL UNDERGO ANNUAL FALL MOWING IN ORDER TO
DISCOURAGE INVASIVE TREES AND SHRUBS FROM TAKING
ROOT AND TO ENCOURAGE FURTHER NATIVE WILDFLOWER
SEED DISTRIBUTION.

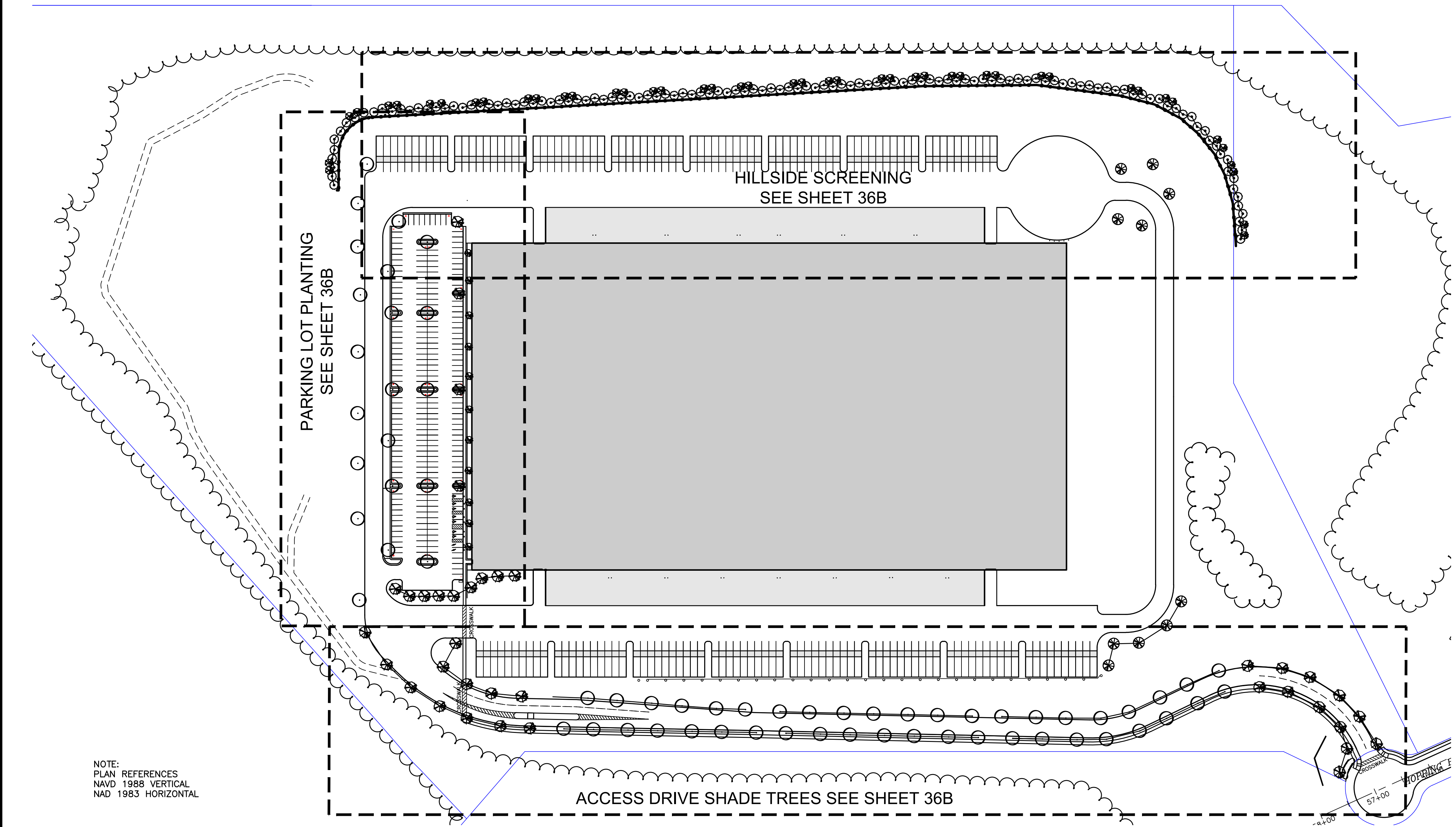


LANDSCAPE PLAN
KEY
SCALE: 1"=100'

ACCESS DRIVE SHADE TREES SEE SHEET 36B

PARKING LOT PLANTING
SEE SHEET 36B

HILLSIDE SCREENING
SEE SHEET 36B



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DRAWN BY:		REVISIONS:	
VML		5	
PSB		4	
PSB		3	
PSB		2	
PSB		1	
PSB		0	
PSB		REV #	DATE
		6/8/23	NO CHANGE
		1/24/23	PEER REVIEW COMMENTS
		9/01/22	SITE PLAN APPROVAL
			DESCRIPTION

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:
LANDSCAPE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 555-HOPPING BROOK ROAD -
LANDSCAPE BASE
LANDSCAPE 36A
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:
36 of 36
36A



PARKING LOT PLANTING SCHEDULE

STREET TREE
FLOWERING TREE 

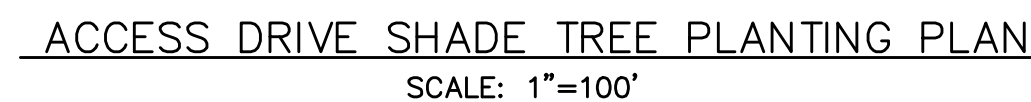
- FEATHER REED GRASS
- FOUNTAIN GRASS
- MAIDEN GRASS
- ZEBRA GRASS
- HOSTA
- SEDUM
- ASTER
- RUSSIAN SAGE
- PHLOX
- ASTILBE
- PURPLE CONEFLOWER
- COREOPSIS



EVERGREEN TREES				
QTY.	KEY	COMMON NAME	BOTANICAL NAME	MIN. SIZE
30	AC	WHITE FIR	ABIES CONCOLOR	6' HT.
30	IO	AMERICAN HOLLY	ILEX OPACCA	6' HT.
30	PA	NORWAY SPRUCE	PICEA ABIES	6' HT.
30	TO	ARBORBITAE	THUJA OCCIDENTALIS 'GREEN GIANT'	6' HT.
DECIDUOUS TREES				
20	HM	CAROLINA SILVERBELL	HALESIA MONTICOLA 'ARNOLD PINK'	1.5"-2" CAL.
25	MM	CRABAPPLE	MALUS 'PRAIRIFIRE'	1.5"-2" CAL.

EVERGREEN TREE

FLOWERING TREE 



FLOWERING TREES				
QTY.	SYM.	COMMON NAME	LATIN NAME	MIN. SIZE
12	HM	CAROLINA SILVERBELL	HALESIA MONTICOLA 'ARNOLD PINK'	1.5"-2" CAL.
17	MM	CRABAPPLE	MALUS 'PRAIRIFIRE'	1.5"-2" CAL.
SHADE TREES				
14	AS	SUGAR MAPLE	ACER SACCHARUM	1.5"-2" CAL.
14	GT	HONEYLOCUST	GLEDTISIA TRICANTHOS	1.5"-2" CAL.
16	TC	LITTLE-LEAF LINDEN	TILIA CORDATA	1.5"-2" CAL.

SHADE TREE

FLOWERING TREE 

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		REVISIONS:		
		5		
		4		
		3		
DOWN BY:	WML	2	6/6/23	NO CHANGE
CHKD BY:	PSB	1	1/24/23	PEER REVIEW COMMENTS
APPROV BY:	PSB	0	5/01/22	SITE PLAN APPROVAL
		REV #	DATE	DESCRIPTION

EDC

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

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
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OWNER/APPLICANT

LANDSCAPE
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HOLLISTON, MA 01746

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

E NO.: 555-HOPPING BROOK ROAD -
LANDSCAPE BASE
LANDSCAPE 36B

TE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

36 of 36

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36B

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