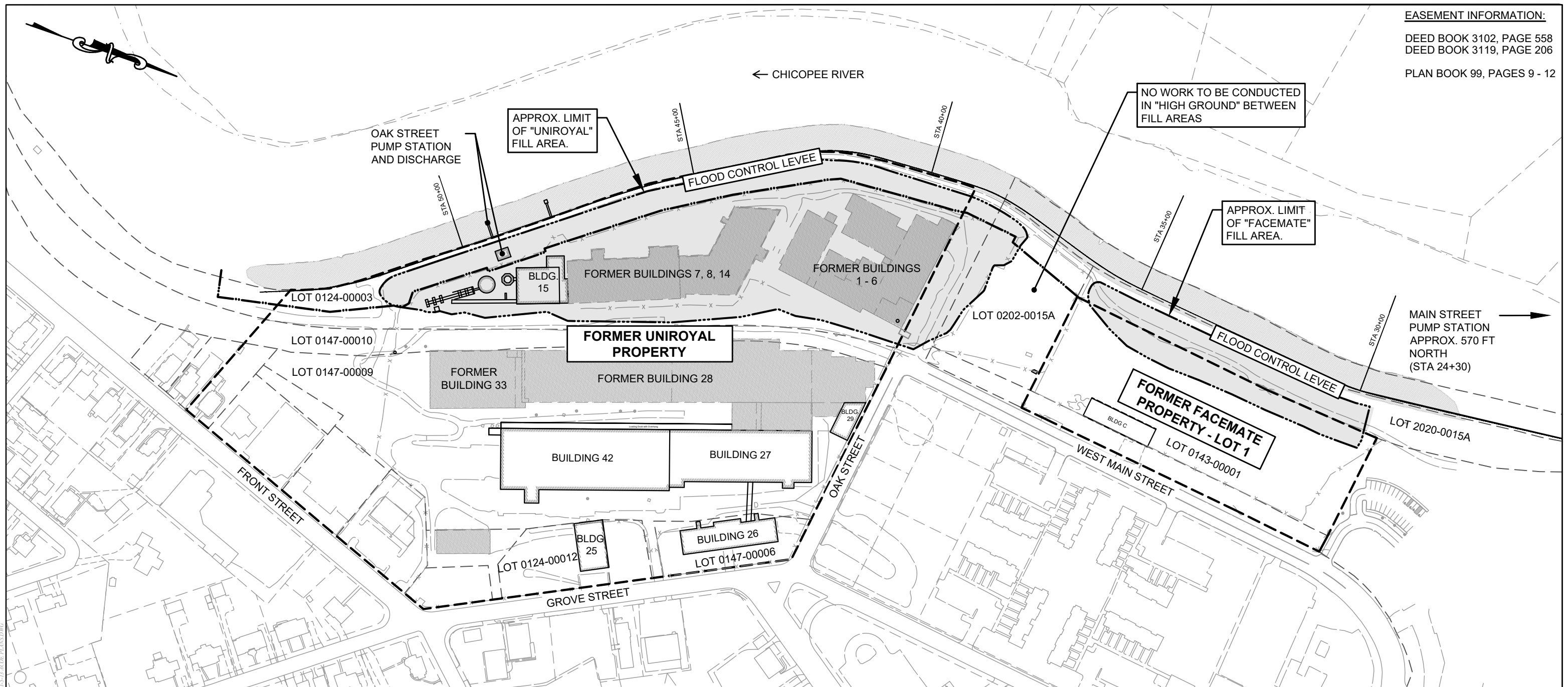


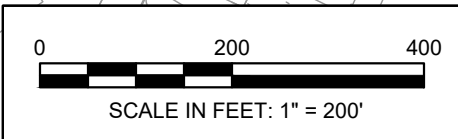
EASEMENT INFORMATION:

DEED BOOK 3102, PAGE 558
DEED BOOK 3119, PAGE 206

PLAN BOOK 99, PAGES 9 - 12



- NOTES:**
1. REFERENCE IS MADE TO THE ORIGINAL FLOOD CONTROL DESIGN PLANS ENTITLED "CHICOPEE RIVER FLOOD CONTROL - CHICOPEE FALLS" DATED APRIL, 1963, PREPARED BY GREEN ENGINEERING AFFILIATES, INC. AND THE U.S. ARMY ENGINEER DIVISION, NEW ENGLAND CORPS OF ENGINEERS.
 2. COORDINATES, IN FEET, ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 3. THE NAVD88 ELEVATIONS ARE APPROXIMATELY 0.708 FT LOWER THAN THE NGVD29 ELEVATIONS USED IN THE ORIGINAL FLOOD CONTROL DESIGN PLANS, BASED ON AN ANALYSIS PERFORMED BY CIVILVIEW, INC.
 4. EXISTING CONDITIONS INFORMATION OBTAINED VIA:
 - AERIAL AND ON-THE-GROUND SURVEY COMPLETED BY CIVIL DESIGN CONSULTANTS, INC. IN DECEMBER OF 2018 AND 2019.
 - PLAN ENTITLED "CHICOPEE RIVER FLOOD CONTROL CHICOPEE FALLS" BY HERITAGE SURVEYS IN MARCH OF 2014
 - PLANIMETRIC AND TOPOGRAPH DATASET PROVIDED BY INFOTECH, INC. IN JANUARY OF 2010.
 - PLAN OF LAND COMPLETED BY DURKEE, WHITE, TOWNE, AND CHAPDELAIN IN 2012.
 - FIELD OBSERVATIONS AND ON-THE-GROUND SURVEY BY BETA GROUP, INC FROM 2016 TO 2021.



LEGEND

	EXISTING SITE BUILDING
	BUILDING DEMOLISHED AS OF JULY 2020
	PROPERTY LINE
	APPROX. LIMIT OF CHICOPEE RIVER
	APPROX. LIMIT OF ACOE PARCEL (TRACT R8)
	PROPOSED FILL AREA



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Figure No. 3
Overall Site Plan

DESCRIPTION OF DRAINAGE SYSTEMS:

SYSTEM A: COLLECTS RUNOFF FROM UPPER PORTIONS OF SITE AND BUILDING 42 FOR DISCHARGE TO SOUTH OUTFALL. NO ALTERATIONS PROPOSED.

SYSTEM B: COLLECTS RUNOFF FROM BUILDINGS 26 AND 27 FOR DISCHARGE TO SYSTEM C. NO ALTERATIONS PROPOSED.

SYSTEM C: INTERCEPTOR DRAIN AND CATCH BASIN SYSTEM FOR COLLECTION OF RUNOFF BEHIND DIKE. CURRENTLY CONVEYED TO OAK STREET PUMP STATION FOR DISCHARGE INTO CHICOPEE RIVER. SYSTEM TO BE ALTERED. REFER TO FIGURE 11.

AREA BEHIND LEVEE TO BE BACKFILLED. REFER TO FIGURES 5 AND 6 FOR PROPOSED GRADING & DRAINAGE PLAN.

OAK STREET PUMP STATION AND DISCHARGE STRUCTURE TO BE DECOMMISSIONED. SEE FIGURE 11

BUILDING 15 TO BE DEMOLISHED

EXISTING UTILITY POLE WITH OVERHEAD ELECTRIC LINES TO BE REMOVED FROM FILL AREA (TYP.)

EXISTING DRAINAGE STRUCTURES AND INTERCEPTOR/TOE DRAINS. SEE "SYSTEM C" DESCRIPTION.

EXISTING "SOUTH OUTFALL" TO REMAIN

200' RIVERFRONT AREA (TYP.)

BLDG. 15

BLDG. 29

EXISTING DRAINAGE STRUCTURES AND PIPES. SEE "SYSTEM B" DESCRIPTION.

PROPERTY OWNERSHIP
 CITY OF CHICOPEE
 BOOK 3119 PAGE 206
 BOOK 13344 PAGE 589
 BOOK 17783 PAGE 139
 BOOK 18258 PAGE 319

PLAN BOOK 99 PAGES 9-12
 PLAN BOOK 200 PAGES 54-61
 PLAN BOOK 369 PAGES 87-90







EXISTING DRAINAGE STRUCTURES AND PIPES. SEE "SYSTEM A" DESCRIPTION.

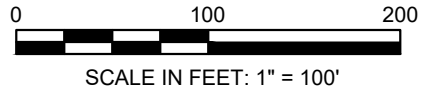
BUILDING 42

BUILDING 27

BUILDING 29 TO BE DEMOLISHED

LEGEND

-  EXISTING SITE BUILDING
-  BUILDING DEMOLISHED AS OF JULY 2020
-  PROPERTY LINE
-  APPROX. LIMIT OF CHICOPEE RIVER
-  200' RIVERFRONT AREA
-  APPROX. LIMIT OF ACOE PARCEL (TRACT R8)



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Figure No. 4

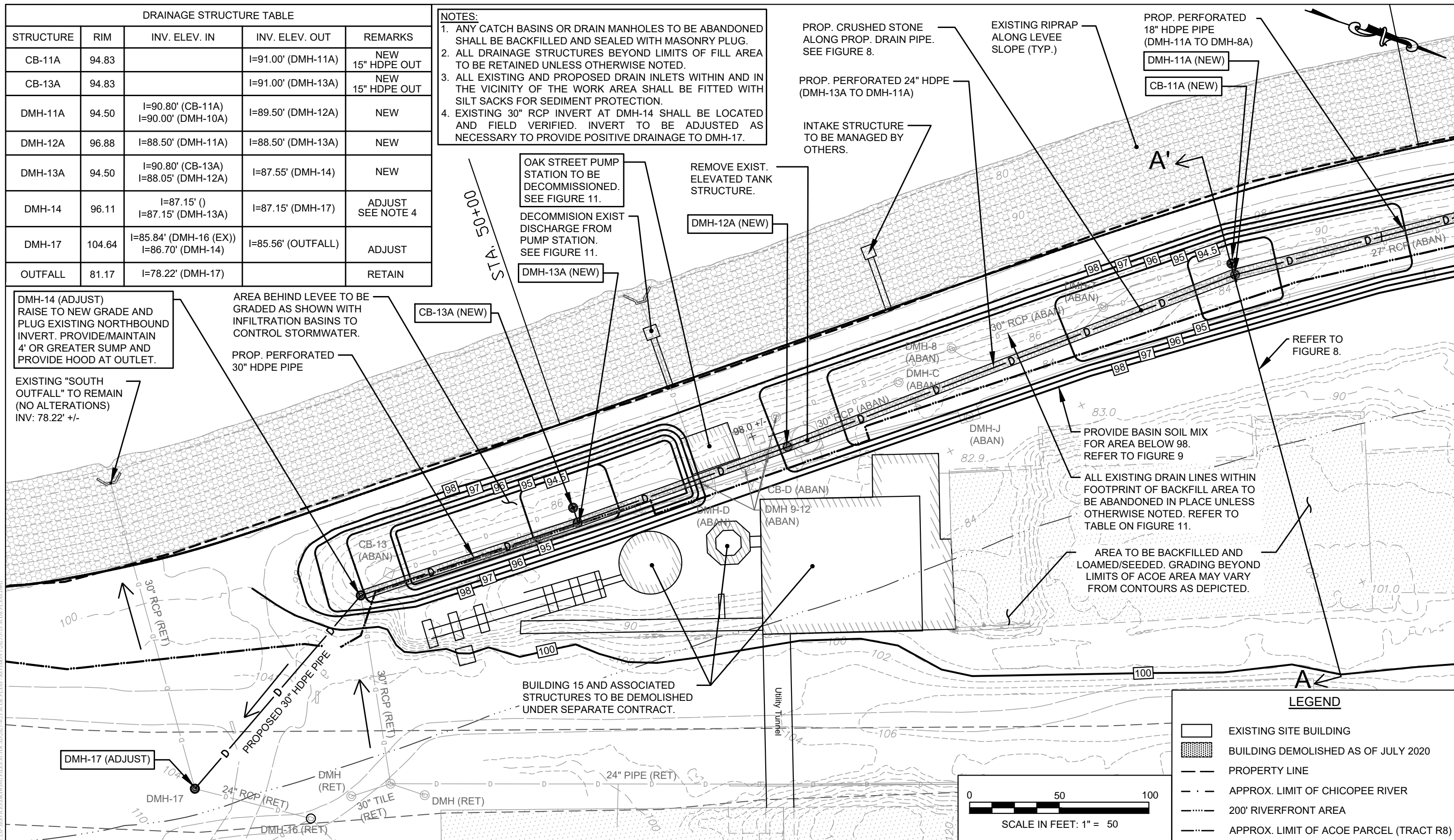
**Existing Drainage Plan
 Uniroyal Property**



C:\STARCH\CHIC - CHICOPEE - UNIROYAL - FACEMATE\DRAINAGE\FIGURE 4.dwg 11/15/2021 11:43:43 AM

DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-11A	94.83		I=91.00' (DMH-11A)	NEW 15" HDPE OUT
CB-13A	94.83		I=91.00' (DMH-13A)	NEW 15" HDPE OUT
DMH-11A	94.50	I=90.80' (CB-11A) I=90.00' (DMH-10A)	I=89.50' (DMH-12A)	NEW
DMH-12A	96.88	I=88.50' (DMH-11A)	I=88.50' (DMH-13A)	NEW
DMH-13A	94.50	I=90.80' (CB-13A) I=88.05' (DMH-12A)	I=87.55' (DMH-14)	NEW
DMH-14	96.11	I=87.15' () I=87.15' (DMH-13A)	I=87.15' (DMH-17)	ADJUST SEE NOTE 4
DMH-17	104.64	I=85.84' (DMH-16 (EX)) I=86.70' (DMH-14)	I=85.56' (OUTFALL)	ADJUST
OUTFALL	81.17	I=78.22' (DMH-17)		RETAIN

- NOTES:**
1. ANY CATCH BASINS OR DRAIN MANHOLES TO BE ABANDONED SHALL BE BACKFILLED AND SEALED WITH MASONRY PLUG.
 2. ALL DRAINAGE STRUCTURES BEYOND LIMITS OF FILL AREA TO BE RETAINED UNLESS OTHERWISE NOTED.
 3. ALL EXISTING AND PROPOSED DRAIN INLETS WITHIN AND IN THE VICINITY OF THE WORK AREA SHALL BE FITTED WITH SILT SACKS FOR SEDIMENT PROTECTION.
 4. EXISTING 30" RCP INVERT AT DMH-14 SHALL BE LOCATED AND FIELD VERIFIED. INVERT TO BE ADJUSTED AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TO DMH-17.



DMH-14 (ADJUST)
RAISE TO NEW GRADE AND
PLUG EXISTING NORTHBOUND
INVERT. PROVIDE/MAINTAIN
4' OR GREATER SUMP AND
PROVIDE HOOD AT OUTLET.

EXISTING "SOUTH
OUTFALL" TO REMAIN
(NO ALTERATIONS)
INV: 78.22' +/-

AREA BEHIND LEVEE TO BE
GRADED AS SHOWN WITH
INFILTRATION BASINS TO
CONTROL STORMWATER.

PROP. PERFORATED
30" HDPE PIPE

OAK STREET PUMP
STATION TO BE
DECOMMISSIONED.
SEE FIGURE 11.

DECOMMISSION EXIST
DISCHARGE FROM
PUMP STATION.
SEE FIGURE 11.

REMOVE EXIST.
ELEVATED TANK
STRUCTURE.

PROP. CRUSHED STONE
ALONG PROP. DRAIN PIPE.
SEE FIGURE 8.

PROP. PERFORATED 24" HDPE
(DMH-13A TO DMH-11A)

INTAKE STRUCTURE
TO BE MANAGED BY
OTHERS.

EXISTING RIPRAP
ALONG LEVEE
SLOPE (TYP.)

PROP. PERFORATED
18" HDPE PIPE
(DMH-11A TO DMH-8A)

DMH-11A (NEW)

CB-11A (NEW)

PROVIDE BASIN SOIL MIX
FOR AREA BELOW 98.
REFER TO FIGURE 9

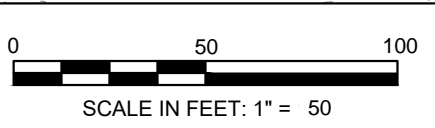
ALL EXISTING DRAIN LINES WITHIN
FOOTPRINT OF BACKFILL AREA TO
BE ABANDONED IN PLACE UNLESS
OTHERWISE NOTED. REFER TO
TABLE ON FIGURE 11.

AREA TO BE BACKFILLED AND
LOAMED/SEED. GRADING BEYOND
LIMITS OF ACOE AREA MAY VARY
FROM CONTOURS AS DEPICTED.

REFER TO
FIGURE 8.

LEGEND

- EXISTING SITE BUILDING
- BUILDING DEMOLISHED AS OF JULY 2020
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- 200' RIVERFRONT AREA
- APPROX. LIMIT OF ACOE PARCEL (TRACT R8)



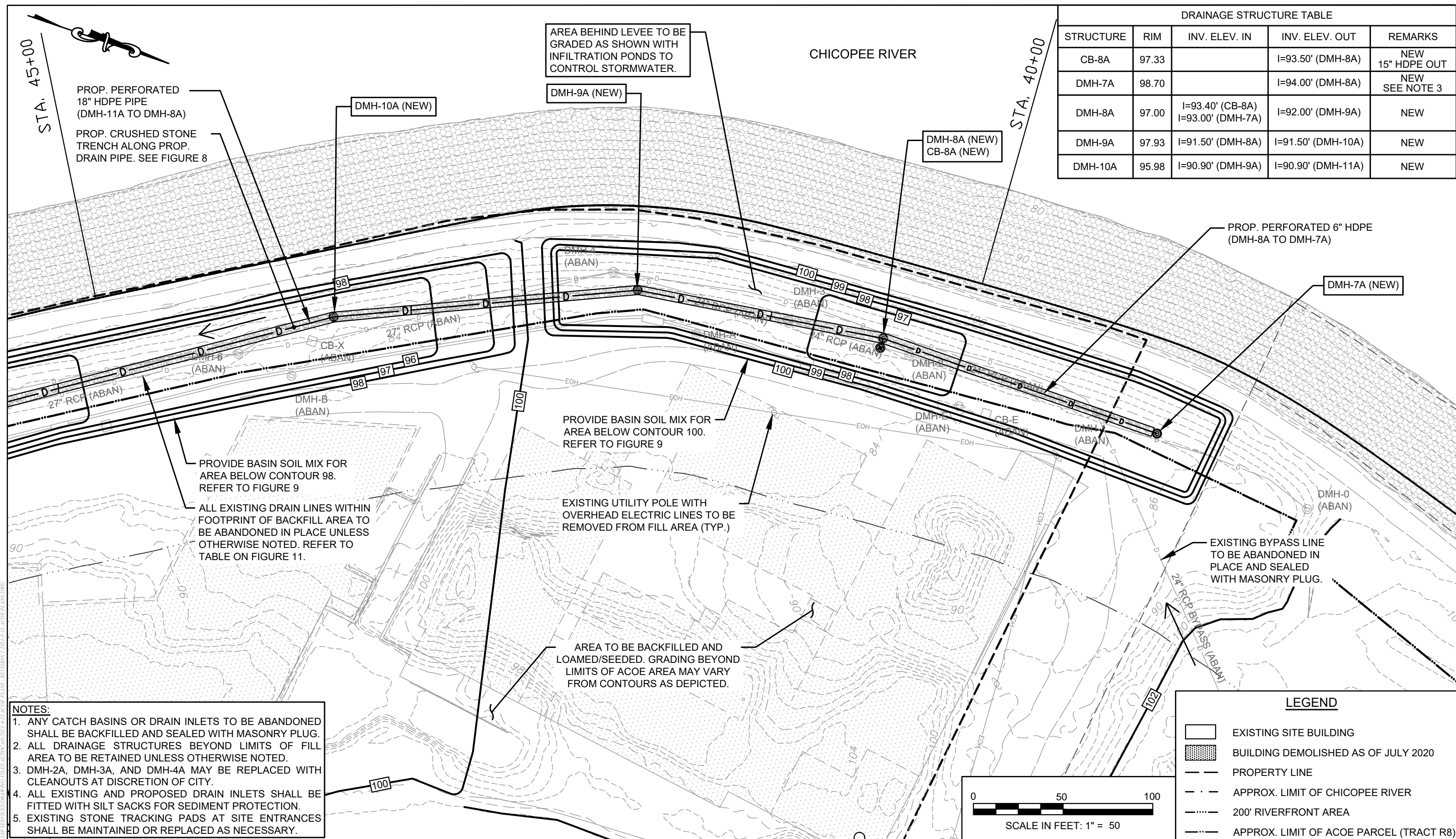
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Issue Date: 5-13-2021

Figure No. 5

**Enlarged Grading & Drainage Plan I
Uniroyal Property**

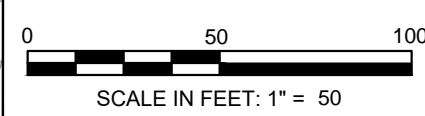


DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-8A	97.33		I=93.50' (DMH-8A)	NEW 15" HDPE OUT
DMH-7A	98.70		I=94.00' (DMH-8A)	NEW SEE NOTE 3
DMH-8A	97.00	I=93.40' (CB-8A) I=93.00' (DMH-7A)	I=92.00' (DMH-9A)	NEW
DMH-9A	97.93	I=91.50' (DMH-8A)	I=91.50' (DMH-10A)	NEW
DMH-10A	95.98	I=90.90' (DMH-9A)	I=90.90' (DMH-11A)	NEW

- NOTES:**
1. ANY CATCH BASINS OR DRAIN INLETS TO BE ABANDONED SHALL BE BACKFILLED AND SEALED WITH MASONRY PLUG.
 2. ALL DRAINAGE STRUCTURES BEYOND LIMITS OF FILL AREA TO BE RETAINED UNLESS OTHERWISE NOTED.
 3. DMH-2A, DMH-3A, AND DMH-4A MAY BE REPLACED WITH CLEANOUTS AT DISCRETION OF CITY.
 4. ALL EXISTING AND PROPOSED DRAIN INLETS SHALL BE FITTED WITH SILT SACKS FOR SEDIMENT PROTECTION.
 5. EXISTING STONE TRACKING PADS AT SITE ENTRANCES SHALL BE MAINTAINED OR REPLACED AS NECESSARY.

LEGEND

- EXISTING SITE BUILDING
- BUILDING DEMOLISHED AS OF JULY 2020
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- 200' RIVERFRONT AREA
- APPROX. LIMIT OF ACOE PARCEL (TRACT R8)

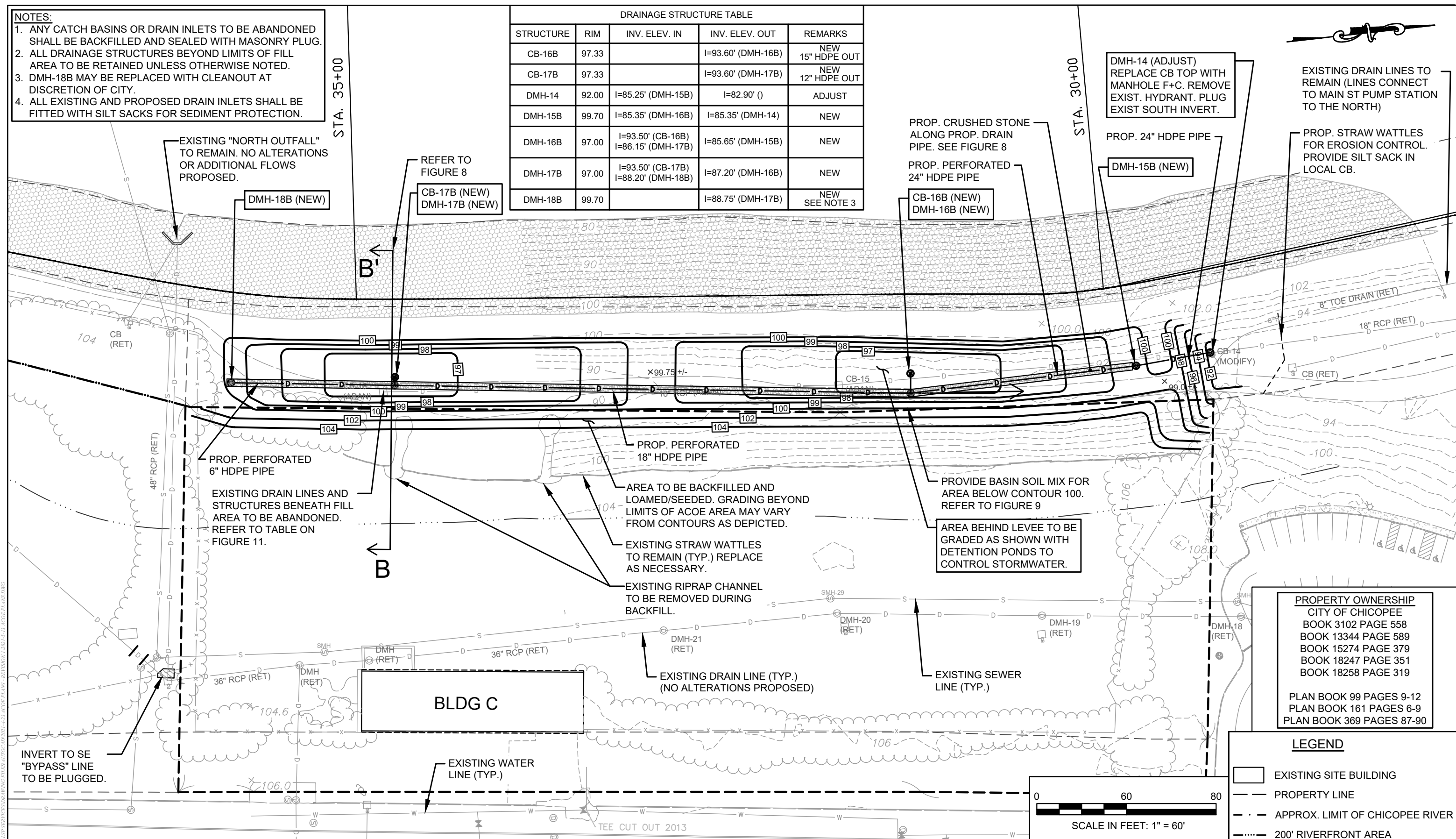


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Figure No. 6
Enlarged Grading & Drainage Plan II
Uniroyal Property

- NOTES:**
1. ANY CATCH BASINS OR DRAIN INLETS TO BE ABANDONED SHALL BE BACKFILLED AND SEALED WITH MASONRY PLUG.
 2. ALL DRAINAGE STRUCTURES BEYOND LIMITS OF FILL AREA TO BE RETAINED UNLESS OTHERWISE NOTED.
 3. DMH-18B MAY BE REPLACED WITH CLEANOUT AT DISCRETION OF CITY.
 4. ALL EXISTING AND PROPOSED DRAIN INLETS SHALL BE FITTED WITH SILT SACKS FOR SEDIMENT PROTECTION.

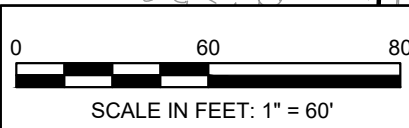
DRAINAGE STRUCTURE TABLE				
STRUCTURE	RIM	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-16B	97.33		I=93.60' (DMH-16B)	NEW 15" HDPE OUT
CB-17B	97.33		I=93.60' (DMH-17B)	NEW 12" HDPE OUT
DMH-14	92.00	I=85.25' (DMH-15B)	I=82.90' ()	ADJUST
DMH-15B	99.70	I=85.35' (DMH-16B)	I=85.35' (DMH-14)	NEW
DMH-16B	97.00	I=93.50' (CB-16B) I=86.15' (DMH-17B)	I=85.65' (DMH-15B)	NEW
DMH-17B	97.00	I=93.50' (CB-17B) I=88.20' (DMH-18B)	I=87.20' (DMH-16B)	NEW
DMH-18B	99.70		I=88.75' (DMH-17B)	NEW SEE NOTE 3



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 BOOK 3102 PAGE 558
 BOOK 13344 PAGE 589
 BOOK 15274 PAGE 379
 BOOK 18247 PAGE 351
 BOOK 18258 PAGE 319

 PLAN BOOK 99 PAGES 9-12
 PLAN BOOK 161 PAGES 6-9
 PLAN BOOK 369 PAGES 87-90

- LEGEND**
- ▭ EXISTING SITE BUILDING
 - PROPERTY LINE
 - - - APPROX. LIMIT OF CHICOPEE RIVER
 - 200' RIVERFRONT AREA

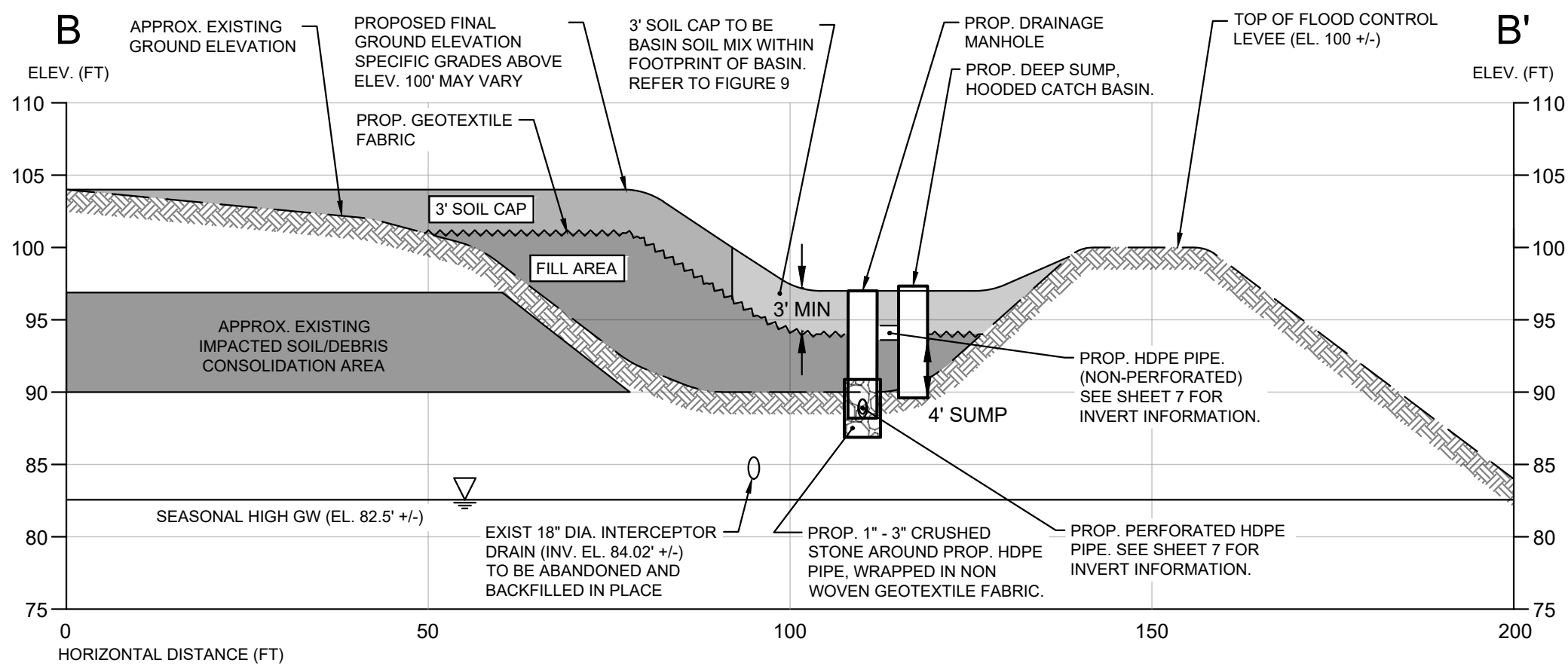
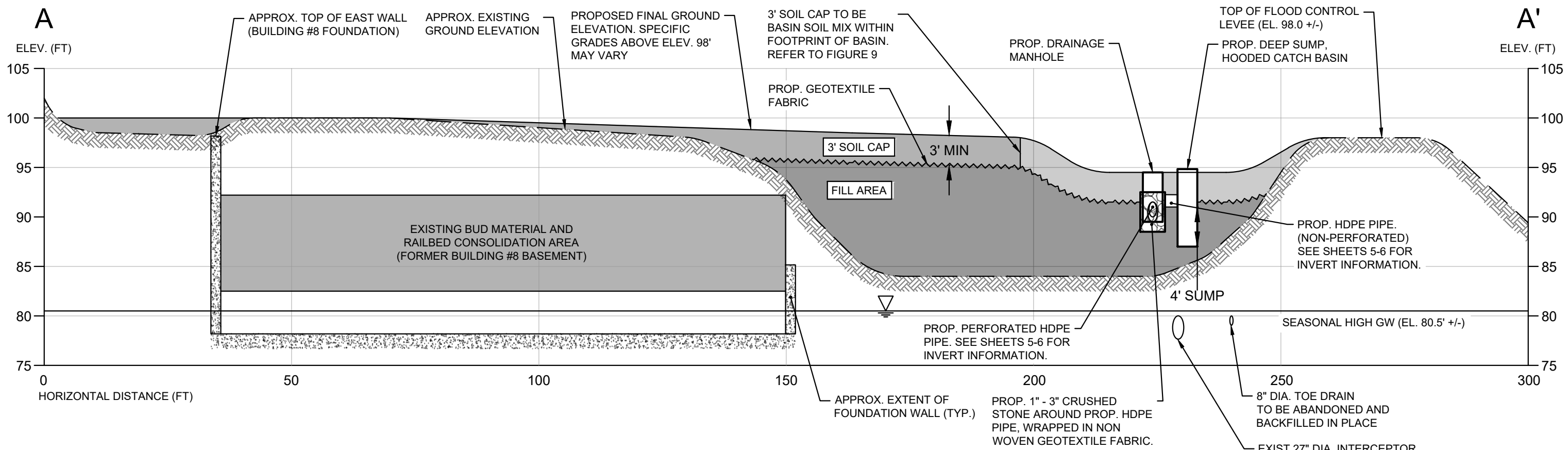


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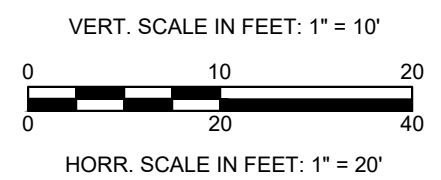


Figure No. 7
Grading & Drainage Plan
Facemate Property

Issue Date: 5-13-2021



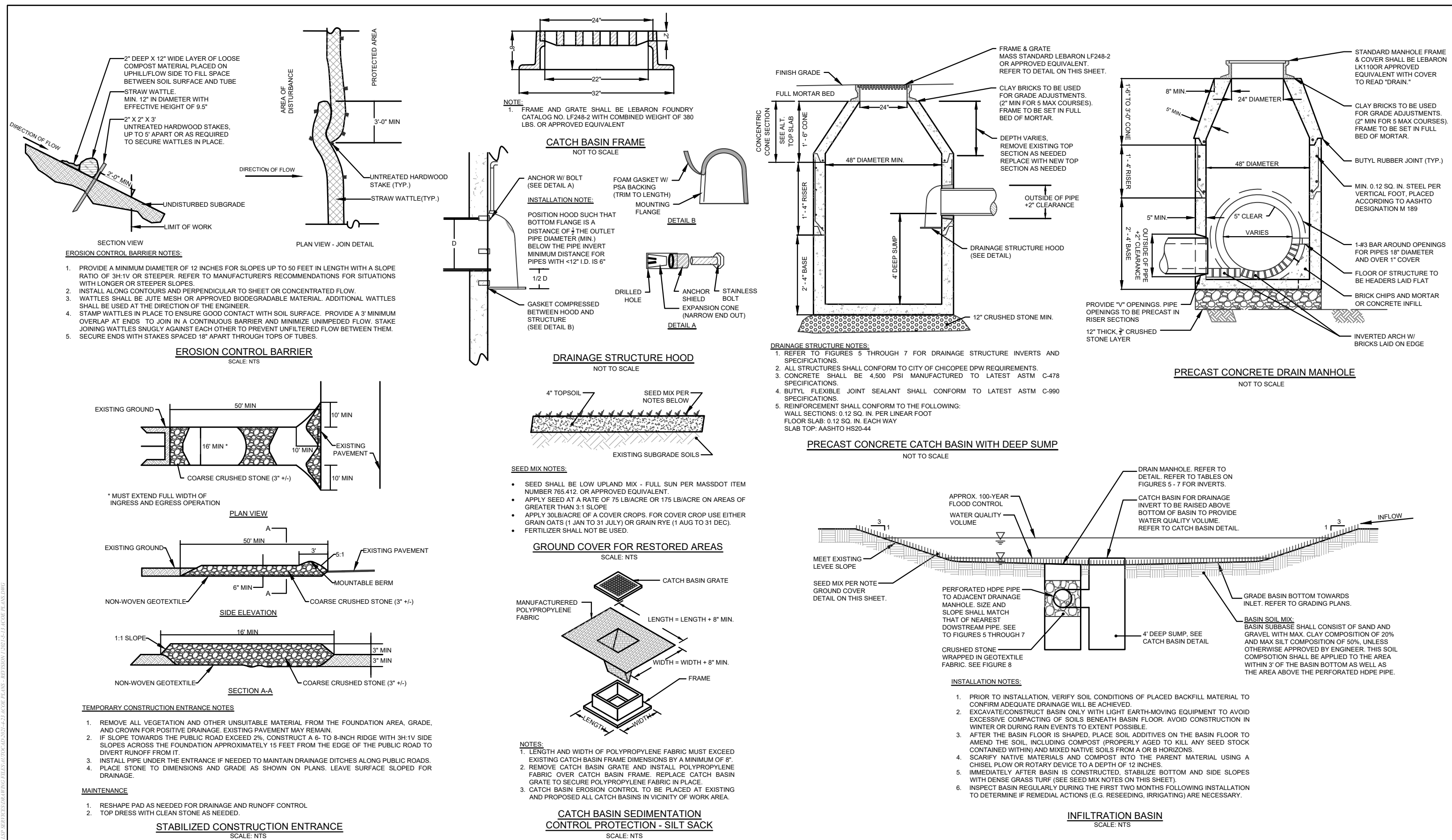
- NOTES:**
- COORDINATES, IN FEET, ARE BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD 83). THE VERTICAL DATUM IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 - EXISTING PIPE INFORMATION BASED ON PLAN TITLED "CHICOPEE RIVER FLOOD CONTROL CHICOPEE FALLS" PREPARED BY US ARMY CORPS OF ENGINEERS, DATED DECEMBER 1962. ELEVATIONS TO BE CONFIRMED DURING CONSTRUCTION.
 - REFER TO FIGURE 3 FOR SOURCE OF EXISTING TOPOGRAPHY DATA
 - REFER TO FIGURES 5 AND 7 FOR LOCATIONS OF CROSS SECTIONS.
 - PROPOSED CRUSHED STONE AND BACKFILL DESIGN SHALL BE IN ACCORDANCE WITH GEOTECHNICAL ENGINEERING REPORT PREPARED FOR THIS PROJECT OR AN EQUIVALENT DESIGN REVIEWED BY A GEOTECHNICAL ENGINEER.



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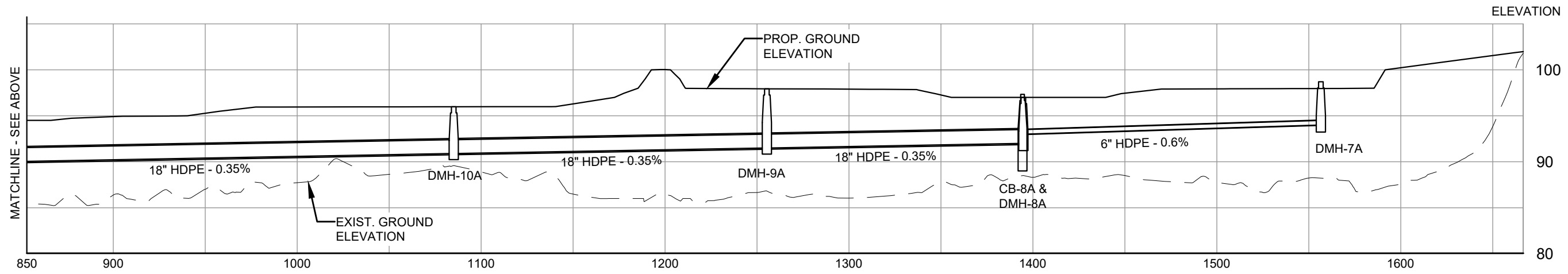
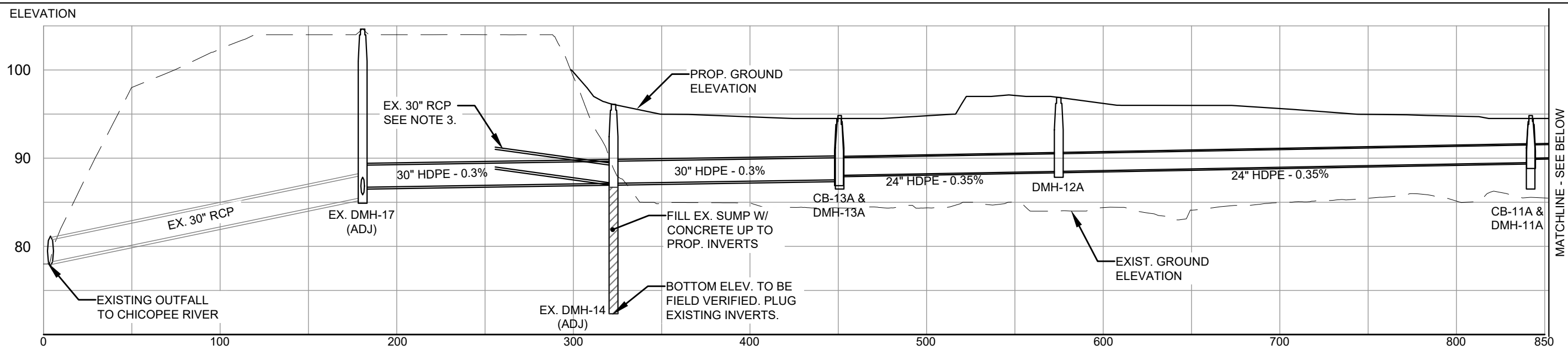
Issue Date: 5-13-2021

Figure No. 8
Cross Sections

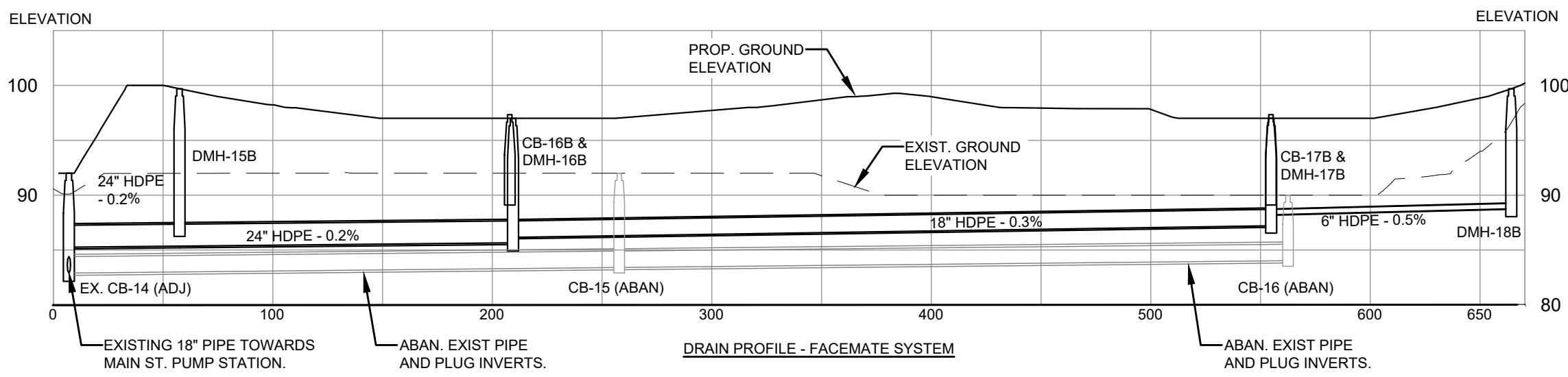


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Figure No. 9
Details
Issue Date: 5-13-2021

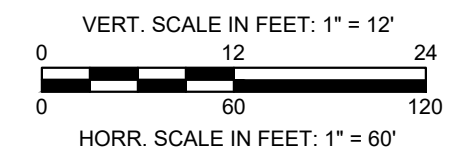


DRAIN PROFILE - UNIROYAL SYSTEM



DRAIN PROFILE - FACEMATE SYSTEM

- NOTES:**
1. REFER TO FIGURES 5 THROUGH 7 FOR DRAINAGE STRUCTURE SCHEDULE AND FIGURE 9 FOR DETAILS.
 2. STRUCTURE SUMP ELEVATIONS MAY DIFFER FROM THOSE SHOWN. REFER TO DETAIL ON FIGURE 9.
 3. EXISTING 30" RCP INVERT AT DMH-14 SHALL BE LOCATED AND FIELD VERIFIED. INVERT TO BE ADJUSTED AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TO DMH-17.
 4. LISTED PIPE SLOPES ARE APPROXIMATE. REFER TO INVERTS ON DRAINAGE STRUCTURE SCHEDULES.
 5. ALL PIPES SHALL BE PERFORATED UNLESS OTHERWISE NOTED IN THIS PLANSET.

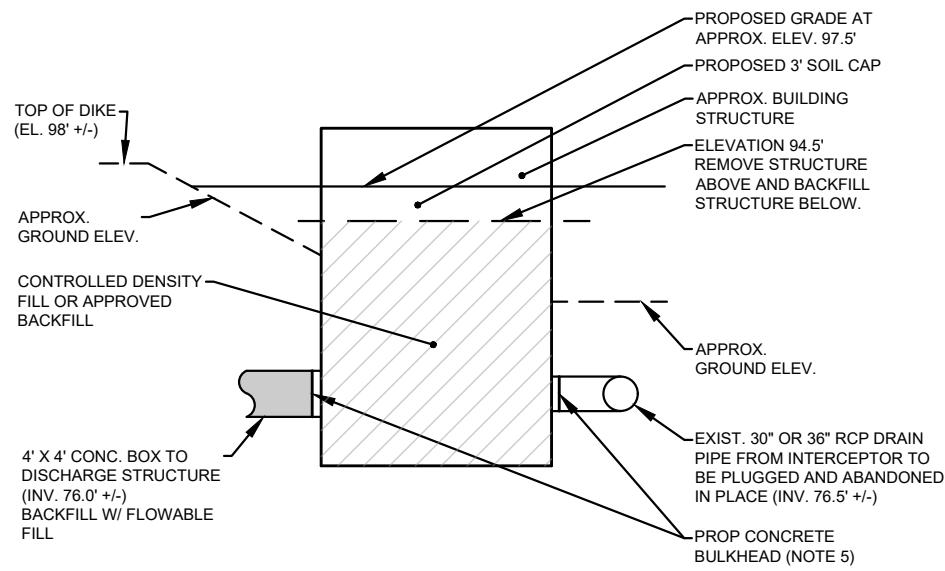


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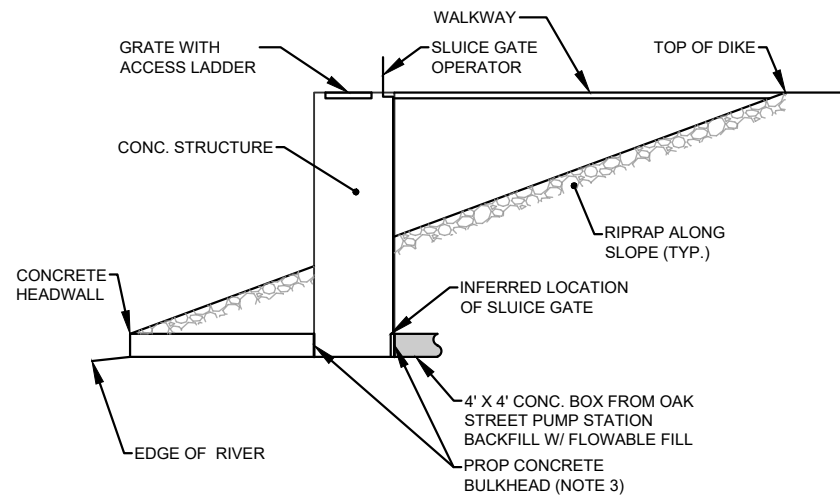
Issue Date: 5-13-2021

Figure No. 10
Drainage Profile

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DECOMMISSIONING OF OAK ST. PUMP STATION
NOT TO SCALE



DECOMMISSIONING OF OAK ST. PUMP STATION DISCHARGE STRUCTURE
NOT TO SCALE

GENERAL SEQUENCE OF WORK - PUMP STATION

1. ENSURE EROSION CONTROLS ARE PLACED IN ALL NEARBY DRAIN INLETS.
2. DISMANTLE AND REMOVE ALL EXISTING ELECTRICAL CONNECTIONS AND UTILITIES, INCLUDING ABOVE-GROUND TANK AND ASSOCIATED FENCING.
3. DISMANTLE AND REMOVE ALL EQUIPMENT WITHIN THE PUMP STATION TO BE PRESERVED OR DISCARDED.
4. DEWATER STRUCTURE AS NEEDED AND INSTALL TEMPORARY MEASURES TO PREVENT WATER FROM ENTERING STRUCTURE.
5. INSTALL CONCRETE BULKHEAD AT ALL DISCHARGE AND INTERCEPTOR DRAIN PIPES.
6. DEMOLISH EXISTING PUMP STATION ROOF AND BUILDING WALLS TO AT LEAST 3' BELOW PROPOSED GRADE (TO APPROX. ELEV. 94.5')
7. DEMOLISH ELEVATED TANK STRUCTURE LOCATED TO THE NORTH OF THE PUMP STATION. LOWER ASSOCIATED CONCRETE FOOTINGS TO AT LEAST 3' BELOW PROPOSED GRADE.
8. BACKFILL REMAINING PUMP STATION WITH CONTROLLED DENSITY FILL OR APPROVED BACKFILL.
9. ABANDON REMAINING PUMP STATION STRUCTURE IN PLACE AND BACKFILL IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING LAYER OF GEOTEXTILE FABRIC AND AT LEAST 3' OF CLEAN FILL WHERE NECESSARY.

NOTES:

1. INTERIOR OF STRUCTURE IS APPROXIMATE ONLY BASED ON LIMITED VISUAL OBSERVATIONS AND RECORD PLANS. ACTUAL LAYOUT MAY VARY.

GENERAL SEQUENCE OF WORK - DISCHARGE STRUCTURE

1. DEWATER STRUCTURE AS NEEDED AND INSTALL TEMPORARY MEASURES TO PREVENT WATER FROM ENTERING STRUCTURE.
2. REMOVE SLUDGE GATE AND SEAL BOTTOM PORTION OF STRUCTURE WITH CONCRETE BULKHEAD TO BLOCK FLOW FROM BOTH SIDES.
3. DISMANTLE AND REMOVE ALL EQUIPMENT FOR OPERATIONS OF SLUDGE GATE.
4. DEMOLISH WALKWAY, INTAKE STRUCTURES, AND SOUTH HEADWALL.
5. BACKFILL THE PORTION OF PIPE THAT CROSSES BENEATH THE LEVEE WITH FLOWABLE FILL.
6. BACKFILL LOWER PORTION OF INTAKE STRUCTURES WITH CLEAN FILL TO GRADE.
7. PROVIDE RIPRAP OVER FOOTPRINT OF INTAKE STRUCTURE TO MATCH EXISTING SLOPE.

NOTES:

1. INTERIOR OF STRUCTURE IS APPROXIMATE ONLY BASED ON LIMITED VISUAL OBSERVATIONS. ACTUAL LAYOUT MAY VARY.

EXISTING DRAINAGE STRUCTURES - UNIROYAL				
STRUCTURE	RIM	INV. OUT.	INV. IN.	NOTES
DMH-17	104.8'	85.84' (OUTFALL)	85.84' (DMH-16)	ADJ
DMH-16	101.8'	88.48' (DMH-17)	88.48' ()	RET
DMH-14	99.07'	76.92' (CB-13)	UNKKNOWN	ADJ
CB-13	82.79'	76.87' (DMH-12)	76.87' (DMH-14)	ABAN
DMH-12	85.39'	76.5' (PUMP STA)	76.5' (CB-13)	ABAN
DMH-11	85.32	76.5' (PUMP STA)	76.5' (DMH-10)	ABAN
DMH-10	85.59	76.58 (DMH-4)	76.58 (DMH-9)	ABAN
DMH-9	87.66	76.62 (DMH-10)	76.62 (DMH-8)	ABAN
DMH-8	90.62'	76.80 (DMH-9)	76.80 (DMH-7)	ABAN
DMH-7	UNK	77.0 (DMH-8)	77.0' (DMH-6)	ABAN
DMH-6	UNK	77.88 (DMH-7)	77.88' (DMH-8)	ABAN
DMH-4	91.29'	78.25 (DMH-6)	78.5' (DMH-3)	ABAN
DMH-3	86.3'	78.65 (DMH-4)	78.65' (DMH-2)	ABAN
DMH-2	87.1'	78.8 (DMH-3)	78.8 (DMH-1)	ABAN
DMH-1	86.3'	79.02 (DMH-2)	BYPASS	ABAN
DMH-D	UNK	UNK	UNK	ABAN
CB-D	UNK	UNK	UNK	ABAN
DMH-C	UNK	UNK	UNK	ABAN
DMH-J	UNK	UNK	UNK	ABAN
DMH-B	UNK	UNK	UNK	ABAN
CB-X	UNK	UNK	UNK	ABAN
DMH-A	UNK	UNK	UNK	ABAN
DMH-E	UNK	UNK	UNK	ABAN
CB-E	UNK	UNK	UNK	ABAN
DMH-0	UNK	UNK	UNK	ABAN

EXISTING DRAINAGE STRUCTURES - FACEMATE				
STRUCTURE	RIM	INV. OUT.	INV. IN.	NOTES
CB-14	89.93'	82.9' (DMH-13)	87.5' (CB-15)	CIT TO DMH-14
CB-15	92.0'	83.4' (CB-14)	83.4' (CB-16)	ABAN
CB-16	89.30'	84.02' (CB-15)	N/A	ABAN

NOTES:

1. INVERTS ARE BASED ON AVAILABLE RECORD DATA. ACTUAL ELEVATIONS MAY VARY.
2. ADDITIONAL INVERTS AND STRUCTURES MAY EXIST BEYOND THOSE LISTED IN THESE TABLES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL DRAINAGE STRUCTURES IN THE AREA OF WORK.
3. "UNK" REFERS TO A VALUE THAT IS NOT KNOWN.

SITE PREPARATION AND EROSION CONTROL NOTES

1. THE CONSTRUCTION SEQUENCING PLAN IS FOR CONCEPTUAL PURPOSES ONLY. THE ACTUAL SEQUENCE OF WORK IMPLEMENTED FOR THIS PROJECT MAY DEVIATE FROM THIS PLAN SO LONG AS IT MEETS THE REQUIREMENTS OF THE PROJECT SITE PLANSET, PROJECT STORMWATER MANAGEMENT REPORT, CITY REGULATIONS, AND ACOE REQUIREMENTS. ADDITIONAL CONSTRUCTION ACTIVITIES MAY BE REQUIRED AT THE SITE BEYOND THOSE PRESENTED ON THIS PLAN.
2. PRIOR TO TRANSITIONING FROM ONE PHASE TO ANOTHER, AT LEAST 75% OF THE EXISTING WORK AREA SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
3. ENGINEER WILL PROVIDE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP), INCLUDING THE FILING OF A NOTICE OF INTENT WITH THE U.S. EPA TO OBTAIN A NPDES CONSTRUCTION GENERAL PERMIT (CGP) PRIOR TO THE CONTRACTOR COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM INSPECTIONS, MONITORING, AND MAINTENANCE, IF WARRANTED, IN ACCORDANCE WITH THE SWPPP TO COMPLY WITH THE CGP. THE SOIL EROSION SEDIMENT CONTROL PROCEDURES AND DETAILS SHOWN AND DESCRIBED IN THE SWPPP SHALL BE STRICTLY FOLLOWED AND INSTALLED IN A MANNER TO MINIMIZE EROSION FROM DISTURBED AREAS.
4. ALL EXISTING AND PROPOSED STEEP SLOPES WITHIN THE FILL AREA (2:1 OR STEEPER, OR AS DIRECTED BY ENGINEER) TO BE STABILIZED WITH JUTE MESH EROSION CONTROL MAT OR APPROVED EQUIVALENT.
5. ALL ACCESS, STAGING, AND STORAGE AREAS SHALL BE LOCATED WITHIN THE LIMITS OF THE PROJECT SITE. NO WORK, STOCKPILING OF MATERIALS, STORAGE OF EQUIPMENT, OR OTHER OPERATIONS OF THE CONTRACTOR SHALL TAKE PLACE OUTSIDE THE LIMITS OF WORK UNLESS AUTHORIZED IN WRITING BY THE ENGINEER.
6. EROSION CONTROL DEVICES SHALL BE FULLY INSTALLED PRIOR TO THE START OF ANY SITE WORK, AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. THESE DEVICES SHALL BE REMOVED AND LEGALLY DISPOSED OF UPON COMPLETION OF ALL WORK WHEN ALL DISTURBED AREAS ARE STABILIZED AND PERMANENT GROUND COVER IS ESTABLISHED, TO THE SATISFACTION OF THE ENGINEER AND THE TOWN. ALL EROSION CONTROL BMPs SHALL CONFORM TO US EPA, NPDES, MA DEP, AND MASSACHUSETTS EROSION AND SEDIMENTATION CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
7. THE CONTRACTOR SHALL MONITOR ALL AREAS WITHIN AND AROUND THE LIMIT OF THE WORK FOR SIGNS OF EROSION, AND REPAIR/STABILIZE ANY ERODED AREAS, AS REQUIRED, UNTIL FINAL STABILIZATION CAN BE ACHIEVED.
8. THE CONTRACTOR IS RESPONSIBLE FOR MONITORING DOWNSTREAM CONDITIONS THROUGHOUT THE CONSTRUCTION PERIOD AND CLEARING ANY DEBRIS AND/OR SEDIMENT IMPEDING PROPER DRAINAGE DURING CONSTRUCTION.
9. NO SEDIMENT SHALL BE PERMITTED TO LEAVE THE SITE DURING CONSTRUCTION. IF HEAVY RAIN AND/OR UNUSUAL SITE CONDITIONS RESULT IN THE POLLUTION OF ROADWAYS, BUFFER ZONES, RESOURCE AREAS, OR ADJACENT PARCELS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTRACTOR SHALL CLEAN ANY DISTURBED AREAS AS SOON AS PRACTICABLE AND RESTORE THEIR ORIGINAL CONDITIONS. CLEANING AND RESTORATION WITHIN BUFFER ZONES AND RESOURCE AREAS MUST BE PERFORMED UNDER THE SUPERVISION OF A WETLAND CONSULTANT, AS COORDINATED BY ENGINEER. WORK MAY ALSO BE OBSERVED BY THE CONSERVATION COMMISSION.
10. CONTRACTOR SHALL SWEEP GROVE STREET, OAK STREET, AND WEST MAIN STREET AT THE END OF EACH WORK DAY (OR MORE FREQUENTLY AS REQUESTED BY THE CITY OR ITS AGENT) TO REMOVE SEDIMENT TRACKING CAUSED BY PROJECT-RELATED CONSTRUCTION VEHICLES.
11. SILT SACKS SHALL BE INSTALLED WITHIN ANY CATCH BASINS AND DRAIN INLETS WITHIN THE LOTS AND WITHIN THE VICINITY OF THE LIMIT OF WORK AS NECESSARY TO PREVENT SILT-LADEN RUNOFF FROM ENTERING THE CITY OR ACOE STORM DRAIN SYSTEM.
12. ALL DISTURBED AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER A CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED ON THAT PORTION OF THE SITE.
13. ANY DISTURBED AREA EXPOSED FOR MORE THAN 7 DAYS SHALL BE STABILIZED WITH PERENNIAL RYE GRASS SEEDING OR APPROVED EQUIVALENT. ADDITIONALLY, A ROW OF STRAW WATTLES SHALL BE PLACED AND STAKED ON THE DOWNGRADIENT SIDE OF ALL SUCH AREAS. SEEDED AREAS SHALL BE RE-SEEDDED AS NECESSARY TO ENSURE VEGETATION ESTABLISHMENT.
14. ALL STOCKPILES AND DISTURBED AREAS TO BE STABILIZED IF EXPOSED FOR MORE THAN 7 DAYS. ALL STOCKPILES SHALL BE SURROUNDED BY COMPOST FILTER RUBES, AND COVERED IN A MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIAL. ALL STOCKPILES OVER 10' IN HEIGHT SHALL BE SURROUNDED BY SAFETY FENCING. NO STOCKPILE SHALL BE PLACED NORTH OF EAST OF THE PERIMETER EROSION CONTROLS.



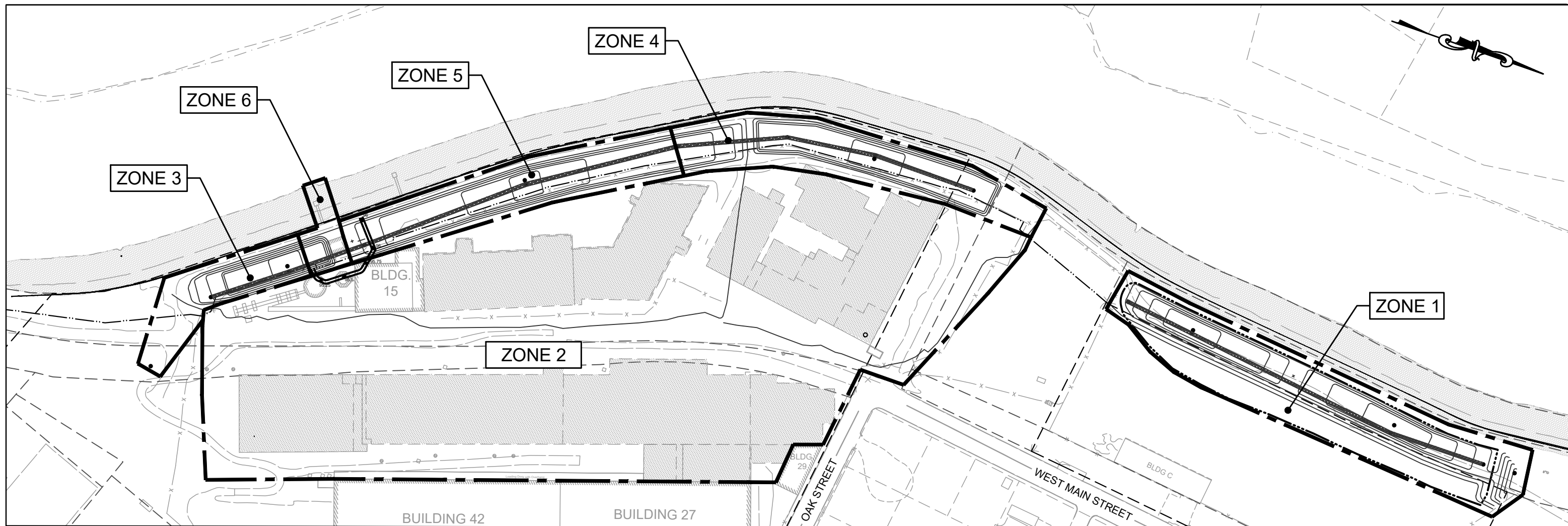
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Figure No. 11

**Oak Street Pump Station
And Construction Notes**



CONCEPTUAL CONSTRUCTION SEQUENCE

- PHASE 1 CAN BE CONDUCTED CONCURRENTLY WITH PHASES 2 - 6.
- REFER TO NOTES 1 & 2 ON FIGURE 11

PHASE 0 (SITEWIDE)

- COORDINATE SCHEDULE WITH OTHER ON-SITE CONTRACTORS
- INSTALL SITEWIDE PERIMETER EROSION CONTROLS, INLET PROTECTION, AND STABILIZED CONSTRUCTION ENTRANCES.
- REVIEW GUIDELINES OF CITY FILL MANAGEMENT PLAN, INCLUDING PROCEDURE FOR ACCEPTANCE AND MANAGEMENT OF BACKFILL MATERIAL.
- ESTABLISH STOCKPILE AND STAGING AREAS.
- FIELD-LOCATE ALL EXISTING DRAINAGE STRUCTURES IN THE VICINITY OF THE FLOOD CONTROL LEVEE AND THOSE ASSOCIATED WITH BUILDING 26 & 27 ROOF DRAINAGE SYSTEM.
- RAISE EXISTING MONITORING WELLS AS DEEMED NECESSARY BY THE CITY OR ITS LICENSED SITE PROFESSIONAL.
- IDENTIFY AND RELOCATE/REMOVE ANY ITEMS THAT MAY OBSTRUCT BACKFILL OPERATIONS, SUCH AS FENCING AND UTILITY POLES. SITE SECURITY FOR UNIROYAL TO BE RESET AT DISCRETION OF CITY.

PHASE 1 (ZONE 1)

- REMOVE EXISTING RIPRAP FLOW CHANNELS FROM ZONE 1. EVALUATE EXISTING STRAW WATTLES FOR RE-USE.
- PLUG EXISTING BYPASS LINE SOUTH OF BUILDING C.
- ABANDON AND PLUG EXISTING DRAINAGE STRUCTURES BETWEEN CB-16 AND DMH-14 IN ACCORDANCE WITH THE SITE PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR DEWATERING THIS AREA UNTIL THE PROPOSED DRAINAGE SYSTEM IS FUNCTIONAL.
- INSTALL THE PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE IN STAGES AS BACKFILL MATERIAL IS PLACED WITHIN THIS ZONE.
 - BACKFILL SHALL BE PLACED IN 6 INCH LIFTS TO 3 FEET BENEATH THE FINAL GRADES OF THE PROPOSED INFILTRATION BASINS.
 - 3 FEET OF BASIN SOIL MIX, WITH SEEDING, SHALL BE PLACED WITHIN THE BASINS WHICH THEN STRUCTURE CB/DMH-14 SHALL BE CONVERTED AND ADJUSTED.
- CONTINUE BACKFILLING OF THIS ZONE IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING PLACEMENT OF FILL MATERIAL, GEOTEXTILE FABRIC LAYER, AND CLEAN SOIL CAP.

PHASE 2 (ZONE 2)

- ENSURE THAT ACCESS TO PUMP STATION IS MAINTAINED THROUGHOUT DURATION OF PHASES 2 THROUGH 5.
- CONDUCT GRADING OF ZONE 2 IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING PLACEMENT OF FILL MATERIAL, GEOTEXTILE FABRIC LAYER, AND CLEAN SOIL CAP.
- TEMPORARILY GRADE WEST SIDE OF ZONE 2 TO MAXIMUM SLOPE OF 3:1 TO MEET EXISTING GRADES. PROVIDE TEMPORARY ROW OF STRAW WATTLES ALONG TOE OF SLOPE.
- ENSURE THAT DEMOLITION OF BUILDING 15 IS COMPLETED PRIOR TO START OF PHASE 3 (UNDER SEPARATE CONTRACT).
- DEMOLISH ELEVATED TANK STRUCTURE NEAR PUMP STATION.

PHASE 3 (ZONE 3)

- ABANDON AND PLUG EXISTING DRAINAGE STRUCTURES BETWEEN PUMP STATION AND DMH-14 IN ACCORDANCE WITH THE SITE PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR DEWATERING THIS AREA UNTIL THE PROPOSED DRAINAGE SYSTEM IS FUNCTIONAL TO THE SOUTH OUTFALL.
- ADJUST DMH-14 AND DMH-17, AND INSTALL HDPE BETWEEN THE TWO STRUCTURES. EVALUATE EXISTING NORTHBOUND INVERT AT DMH-14.
- INSTALL THE PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE IN STAGES, BETWEEN PUMP STATION AND DMH-14, AS BACKFILL MATERIAL IS PLACED WITHIN THIS ZONE. PIPE BETWEEN DMH-13A AND DMH-12A TO BE PARTIALLY CONSTRUCTED AND CAPPED DURING THIS PHASE.
 - BACKFILL SHALL BE PLACED IN 6 INCH LIFTS TO 3 FEET BENEATH THE FINAL GRADES OF THE PROPOSED INFILTRATION BASIN.
 - 3 FEET OF BASIN SOIL MIX, WITH SEEDING, SHALL BE PLACED WITHIN THE BASIN.
- CONTINUE BACKFILLING OF THIS ZONE IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING PLACEMENT OF FILL MATERIAL, GEOTEXTILE FABRIC LAYER, AND CLEAN SOIL CAP.

PHASE 4 (ZONE 4)

- ABANDON AND PLUG EXISTING DRAINAGE STRUCTURES BETWEEN DMH-7A AND DMH-6 IN ACCORDANCE WITH THE SITE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR DEWATERING THIS AREA UNTIL THE PROPOSED DRAINAGE SYSTEM IS FUNCTIONAL TO DMH-12A.

- INSTALL THE PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE IN STAGES, BETWEEN DMH-7A AND DMH-10A, AS BACKFILL MATERIAL IS PLACED WITHIN THIS ZONE.
 - TEMPORARILY GRADE PIPE-LESS OUTFLET FROM DMH-10A TO CONVEY FLOWS TO NEARBY EXISTING CATCH BASIN.
 - BACKFILL SHALL BE PLACED IN 6 INCH LIFTS TO 3 FEET BENEATH THE FINAL GRADES OF THE PROPOSED INFILTRATION BASIN.
 - 3 FEET OF BASIN SOIL MIX, WITH SEEDING, SHALL BE PLACED WITHIN THE BASIN.
- CONTINUE BACKFILLING OF THIS ZONE IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING PLACEMENT OF FILL MATERIAL, GEOTEXTILE FABRIC LAYER, AND CLEAN SOIL CAP.

PHASE 5 (ZONE 5)

- ABANDON AND PLUG EXISTING DRAINAGE STRUCTURES BETWEEN DMH-6 AND DMH-9 IN ACCORDANCE WITH THE SITE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR DEWATERING THIS AREA UNTIL THE PROPOSED DRAINAGE SYSTEM IS FUNCTIONAL TO DMH-12A.
- INSTALL THE PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE IN STAGES, BETWEEN DMH-10A AND DMH-12A, AS BACKFILL MATERIAL IS PLACED WITHIN THIS ZONE.
 - TEMPORARILY GRADE PIPE-LESS OUTFLET FROM DMH-12A TO CONVEY FLOWS TO NEARBY EXISTING CATCH BASIN.
 - BACKFILL SHALL BE PLACED IN 6 INCH LIFTS TO 3 FEET BENEATH THE FINAL GRADES OF THE PROPOSED INFILTRATION BASIN.
 - 3 FEET OF BASIN SOIL MIX, WITH SEEDING, SHALL BE PLACED WITHIN THE BASIN.
- CONTINUE BACKFILLING OF THIS ZONE IN ACCORDANCE WITH FILL MANAGEMENT PLAN, INCLUDING PLACEMENT OF FILL MATERIAL, GEOTEXTILE FABRIC LAYER, AND CLEAN SOIL CAP.

PHASE 6 (ZONE 6)

- CONSTRUCT TEMPORARY SWALE TO DIVERT STORMWATER RUNOFF AWAY FROM PUMP STATION. PROVIDE TEMPORARY PLUG FOR PIPE-LESS OUTFLET FROM DMH-12A.
- COMPLETE DECOMMISSIONING OF OAK ST. PUMP STATION (REFER TO FIGURE 11)
- ABANDON AND PLUG EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH SITE PLANSET, EXCLUDING STRUCTURES NECESSARY FOR PUMP STATION OPERATION.
- BACKFILL ZONE TO APPROX. ELEVATION 88', EXCLUDING THE FOOTPRINT AND IMMEDIATE VICINITY OF PROPOSED DRAINAGE STRUCTURES AND DRAIN LINES.

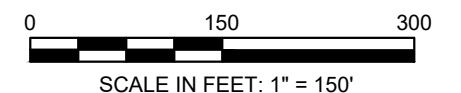
- INSTALL REMAINING DRAINAGE PIPE BETWEEN DMH-12A AND DMH-13A AND CRUSHED STONE AROUND PERFORATED PIPE.
- COMPLETE DECOMMISSIONING OF OAK ST. PUMP STATION DISCHARGE STRUCTURE.
- BACKFILL ZONE TO FINAL GRADES.
- REMOVE TEMPORARY SWALE AND BACKFILL ZONE TO FINAL GRADES.

PHASE 7 (SITEWIDE)

- REMOVE PHASE 6 DIVERSION SWALE
- CONDUCT FINE GRADING OF ANY AREAS NOT YET FINALIZED.
- VERIFY DRAINAGE PATTERNS, ENSURING NO RUNOFF IS DIRECTED OVER THE LEVEE.
- COMPLETE SITE-WIDE PERMANENT RESTORATION (UNLESS PRECLUDED BY OTHER SITE ACTIVITIES).
- REMOVE EROSION CONTROLS ONCE FINAL STABILIZATION IS ACHIEVED, UNLESS OTHERWISE NEEDED FOR FUTURE SITework.

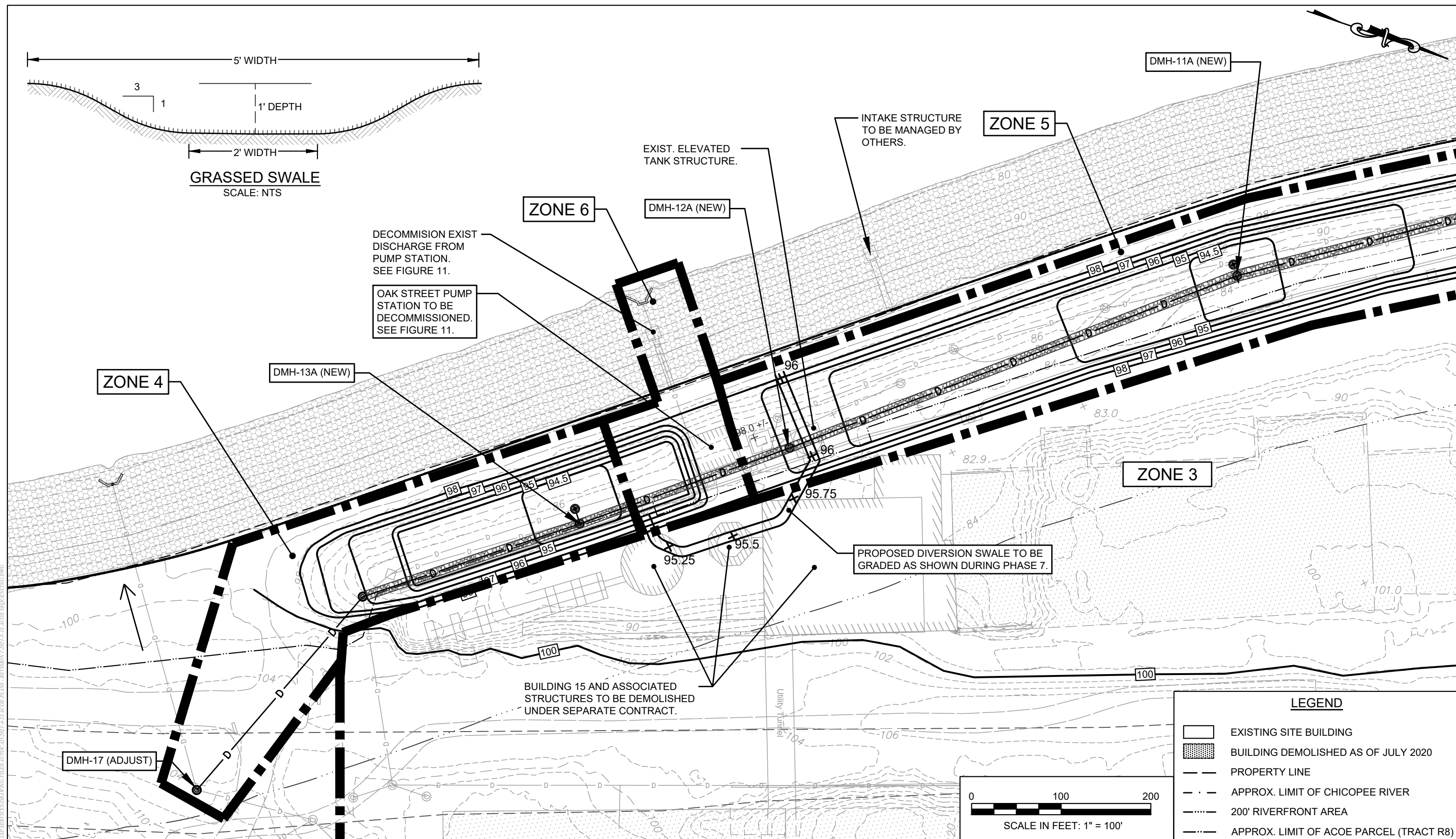
LEGEND

- EXISTING SITE BUILDING
- BUILDING DEMOLISHED AS OF JULY 2020
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF ACOE PARCEL (TRACT R8)
- PROPOSED FILL AREA



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Figure No. ##
Overall Sequencing Plan



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Figure No. 13

Enlarged Sequencing Plan



C:\USERS\B001\CHICOPEE - UNIROYAL\ACOE PERMIT REVIEW\FIGURE 13 - ENLARGED SEQUENCING PLAN - BETEPLAN.dwg - 5/13/2021 10:43:43 AM