EASEMENT INFORMATION:

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

PLAN BOOK 99, PAGES 9 - 12

← CHICOPEE RIVER

APPROX. LIMIT OF "UNIROYAL" FILL AREA.

INTAKE STRUCTURE

OAK STREET PUMP STATION AND DISCHARGE

FLOOD CONTROL LEVEE

NO WORK TO BE CONDUCTED IN "HIGH GROUND" BETWEEN FILL AREAS

100-YEAR FEMA FLOOD ZONE: REGULATORY FLOODWAY (ELEV 92' - 94')

BANK OF CHICOPEE RIVER ALONG TOE OF RIPRAP EMBANKMENT

STA 45+00

STA 40+00

STA 50+00

STA 45+00

APPROX. LIMIT OF "FACEMATE" FILL AREA.

FLOOD CONTROL LEVEE

STA 30+00

MAIN STREET PUMP STATION APPROX. 570 FT NORTH (STA 24+30)

FORMER BUILDINGS 7, 8, 14, 15

FORMER BUILDINGS 1 - 6

LOT 0124-00003

LOT 0147-00010

LOT 0147-00009

LOT 0202-0015A

FORMER UNIROYAL PROPERTY

FORMER BUILDING 33

FORMER BUILDING 28

BLDG 29

FORMER FACEMATE PROPERTY - LOT 1

BLDG C

LOT 0143-00001

LOT 2020-0015A

BUILDING 42

BUILDING 27

OAK STREET

WEST MAIN STREET

FRONT STREET

BLDG 25

LOT 0124-00012

BUILDING 26

LOT 0147-00006

GROVE STREET

NOTES:

1. 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).
2. THE NAVD88 ELEVATIONS ARE APPROXIMATELY 0.708 FT LOWER THAN THE NGVD29 ELEVATIONS USED IN HE ORIGINAL FLOOD CONTROL DESIGN PLANS, BASED ON AN ANALYSIS PERFORMED BY CIVILVIEW, INC.
3. 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 CHAPDELAINE IN 2012.
   - FIELD OBSERVATIONS AND ON-THE-GROUND SURVEY BY BETA GROUP, INC FROM 2016 TO 2020.

0 200 400

SCALE IN FEET: 1" = 200'

LEGEND

- EXISTING SITE BUILDING
- BUILDING DEMOLISHED AS OF AUGUST 2022
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- PROPOSED FILL AREA
- 100-YEAR FEMA FLOOD ZONE

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Figure No. 3

Overall Site Plan

O:\STORKS\100-CHICOPEE - UNIROYAL\CSP\SERVICES\DRAWING FILES\AUTOCAD\1-ACOE PLANS\ACOE PLANS.DWG

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 12.

CHICOPEE RIVER

LEVEE STA. 45+00

BANK OF CHICOPEE RIVER ALONG TOE OF RIPRAP EMBANKMENT

LEVEE STA. 40+00

100-YEAR FEMA FLOOD ZONE: REGULATORY FLOODWAY (ELEV 92' - 94')

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

DISCHARGE STRUCTURE

OAK STREET PUMP STATION

INTAKE STRUCTURE

LEVEE STA. 50+00

EXISTING "SOUTH OUTFALL" TO REMAIN

LINE ABANDONED

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

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

Loading Dock with Overhang

BUILDING 42

BUILDING 27

BLDG. 29

BUILDING 29 TO BE DEMOLISHED UNDER SEPARATE CONTRACT

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

LEGEND

- EXISTING SITE BUILDING
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- 100-YEAR FEMA FLOOD ZONE

0 100 200

SCALE IN FEET: 1" = 100'

O:\5100\5100 - CHICOPEE - UNIROYAL\LSP\SUBTICES\DRAWING FILES\AUTOCAD\1-ACOE PLANS\ACOE PLANS.DWG

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Issue Date: 10-11-2022

Figure No. 4

Existing Drainage Plan Uniroyal Property

DRAINAGE STRUCTURE TABLE				
NAME/TYPE	RIM ELEV.	INV. ELEV. IN	INV. ELEV. OUT	REMARKS
CB-11A	94.83		I=91.00' (DMH-11A)	
CB-13A	94.83		I=91.00' (DMH-13A)	
DMH-11A	94.50	I=90.80' (CB-11A) I=90.00' (DMH-10A)	I=89.50' (DMH-12A)	
DMH-12A	96.88	I=88.50' (DMH-11A)	I=88.50' (DMH-13A)	
DMH-13A	94.50	I=90.80' (CB-13A) I=88.05' (DMH-12A)	I=87.55' (DMH-14)	
DMH-14	96.11	I=87.15' () I=87.15' (DMH-13A)	I=87.15' (DMH-17)	REMODEL 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.

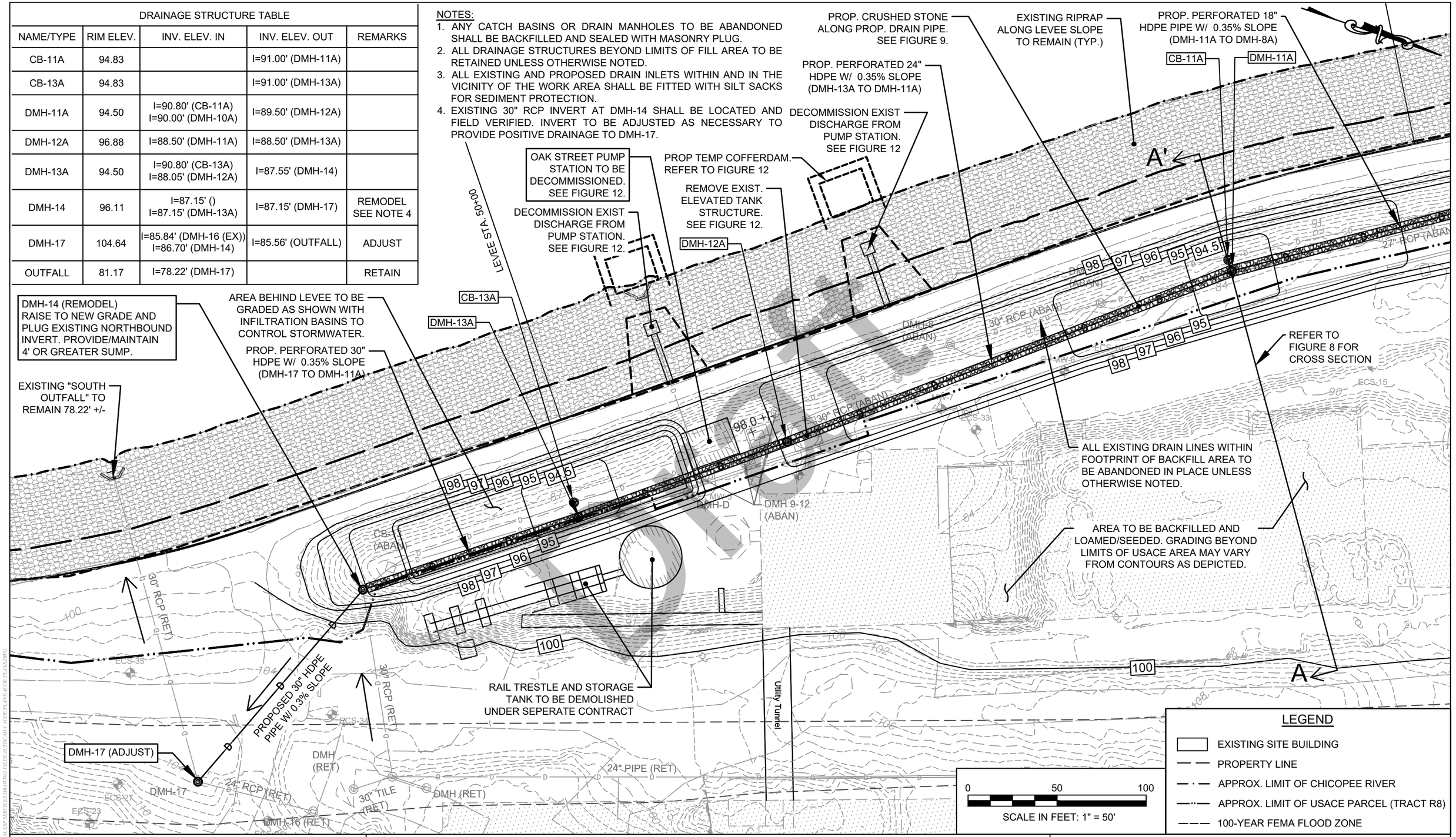

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Figure No. 5

Enlarged Grading & Drainage Plan I
Uniroyal Property

O:\51000\510 - CHICOPEE - UNIROYAL LSP\SERVICES\DRAFTING FILES\AUTOCAD\1_4\COE PLANS_4\COE PLANS.DWG

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

LEVEE STA. 45+00

PROP. PERFORATED 18" HDPE PIPE W/ 0.35% SLOPE (DMH-11A TO DMH-8A)

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

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

CHICOPEE RIVER

LEVEE STA. 40+00

PROP. PERFORATED 12" HDPE PIPE W/ 0.6% SLOPE (DMH-7A TO DMH-8A)

DMH-10A

DMH-9A

CB-8A

DMH-8A

DMH-7A

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

ALL EXISTING DRAIN LINES WITHIN FOOTPRINT OF BACKFILL AREA TO BE ABANDONED IN PLACE UNLESS OTHERWISE NOTED.

EXISTING BYPASS LINE TO BE ABANDONED IN PLACE AND SEALED WITH MASONRY PLUG.

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

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
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- 100-YEAR FEMA FLOOD ZONE

0 50 50
SCALE IN FEET: 1" = 50'

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Figure No. 6

Enlarged Grading & Drainage Plan II
Uniroyal Property

NOTES:

1. ALL DRAINAGE STRUCTURES BEYOND LIMITS OF FILL AREA TO BE RETAINED UNLESS OTHERWISE NOTED.
2. ALL EXISTING AND PROPOSED DRAIN INLETS SHALL BE FITTED WITH SILT SACKS FOR SEDIMENT PROTECTION.

EXISTING "NORTH OUTFALL" TO REMAIN. NO ALTERATIONS OR ADDITIONAL FLOWS PROPOSED.

LEVEE STA. 35+00

BANK OF CHICOPEE RIVER ALONG TOE OF RIPRAP EMBANKMENT

REFER TO FIGURE 8

DMH-6 (CIT)
RIM. = 103.7'
RET EXIST INVERTS

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

DMH-5 (CIT)
RIM. = 104.0'
RET EXIST INVERTS

100-YEAR FEMA FLOOD ZONE:
REGULATORY FLOODWAY
(ELEV 92' - 94')

EXISTING DRAIN LINES TO REMAIN

LEVEE STA. 30+00

CB-4 (RET)

EXISTING DRAIN LINES TO REMAIN (LINES CONNECT TO MAIN ST PUMP STATION TO THE NORTH)

PROP. STRAW WATTLE FOR EROSION CONTROL. PROVIDE SILT SACK IN LOCAL CB.

B'

B

EXISTING STRAW WATTLES TO BE REMOVED & REPLACED

AREA BEHIND LEVEE TO BE GRADED AS SHOWN

APPROX. LIMIT OF FILL AREA

EXIST RIPRAP CHANNEL TO BE REMOVED DURING BACKFILL.

EXISTING SEWER LINE (TYP.)

BLDG C

INVERT TO SOUTHWEST "BYPASS" LINE TO BE PLUGGED.

EXISTING WATER LINE (TYP.)

EXISTING DRAIN LINE (TYP.)
(NO ALTERATIONS PROPOSED)

TEE CUT OUT 2013

MW-6 MW-9 MW-5 SMH-29 SMH-26 SMH

PROPERTY OWNERSHIP
CITY OF CHICOPEE
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

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.

LEGEND

- EXISTING SITE BUILDING
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- 100-YEAR FEMA FLOOD ZONE

0 60 80

SCALE IN FEET: 1" = 60'

O:\SIOBS\300-CHICOPEE - UNIROYAL LSP\SERVICES\DRAWING FILES\AUTOCAD\1-ACOE PLANS\ACOE PLANS.DWG

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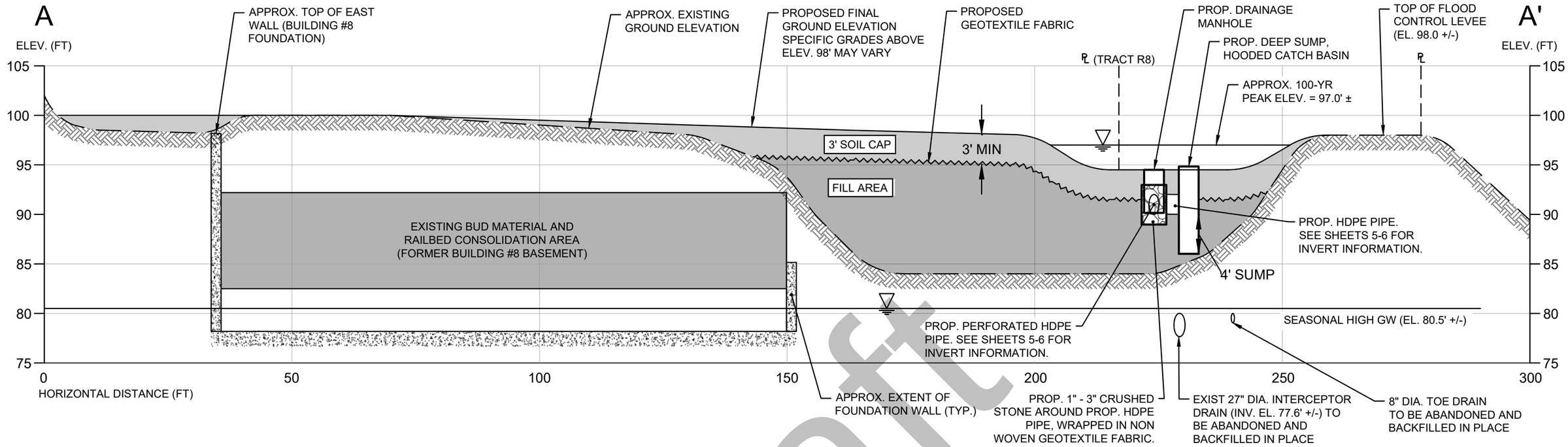
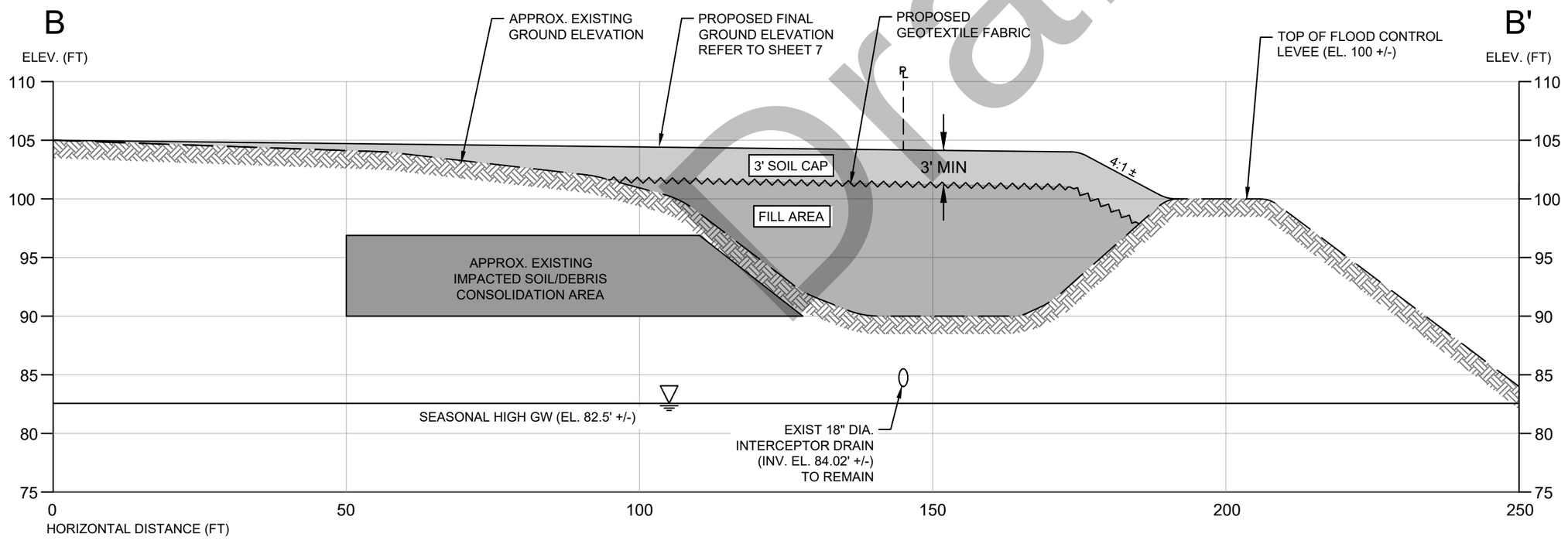
Figure No. 7

Grading & Drainage Plan
Facemate Property





NOTES:

1. 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).
2. 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.
3. REFER TO FIGURES 5 AND 7 FOR LOCATIONS OF CROSS SECTIONS.
4. 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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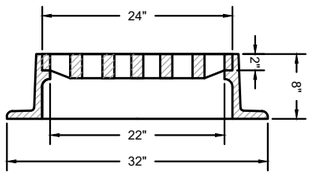
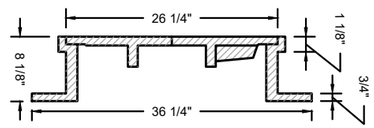
Figure No. 8

Cross Sections



NOTES:
1. DRAIN STRUCTURES LISTED AS "ADJ" SHALL HAVE THEIR CATCH BASIN FRAME MODIFIED, OR BE PROVIDED WITH NEW FRAME, SUCH THAT THE INLET IS FLUSH WITH THE PROPOSED GUTTER LINE.
2. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH CITY OF CHICOPEE DPW STANDARD DETAILS

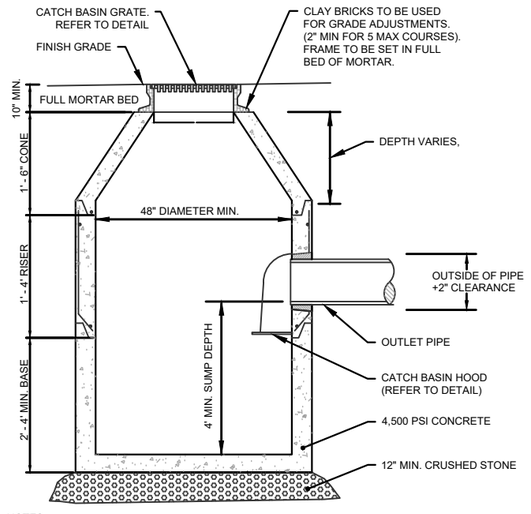
CATCH BASIN FRAME AND GRATE
NOT TO SCALE



NOTES:

1. CLAY BRICKS TO BE USED FOR GRADE ADJUSTMENTS. (2" MIN FOR 5 MAX COURSES). FRAME TO BE SET IN FULL BED OF MORTAR.
2. MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF CHICOPEE DPW STANDARD DETAILS

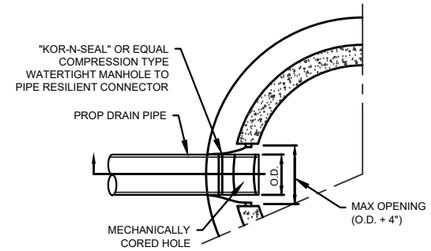
MANHOLE FRAME
NOT TO SCALE



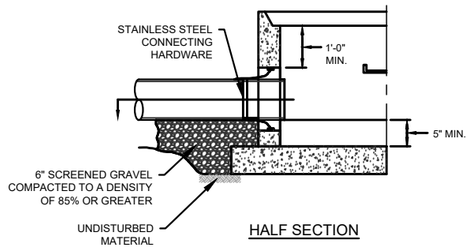
NOTES:

1. CATCH BASIN FRAME SHALL BE IN ACCORDANCE WITH MASSDOT DRAWING E 201.6 OR APPROVED EQUAL
2. A TEST PIT SHALL BE COMPLETED IN THE VICINITY OF EACH PROPOSED DRAINAGE STRUCTURE TO IDENTIFY ANY POTENTIAL OBSTRUCTIONS.
2. ALL STRUCTURES SHALL CONFORM TO LATEST CITY OF CHICOPEE CONSTRUCTION DETAILS.

DEEP SUMP CATCH BASIN
NOT TO SCALE

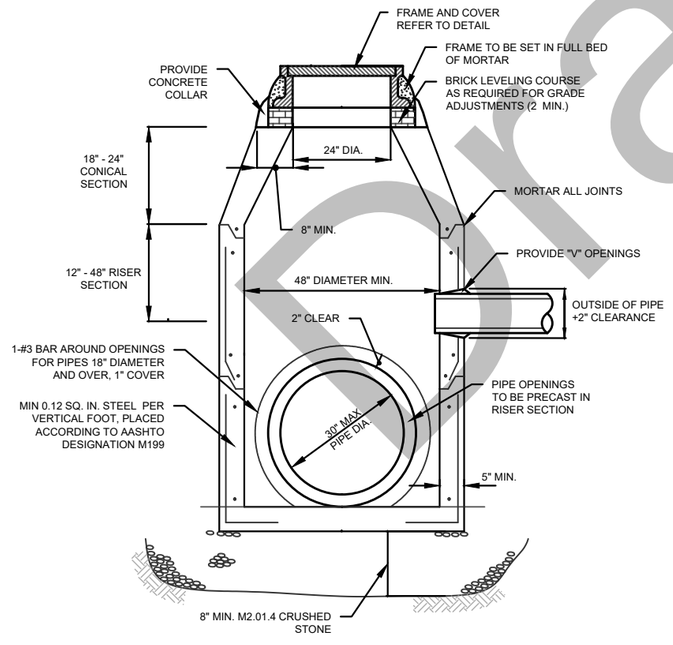


SECTIONAL PLAN

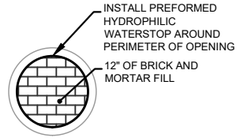


HALF SECTION

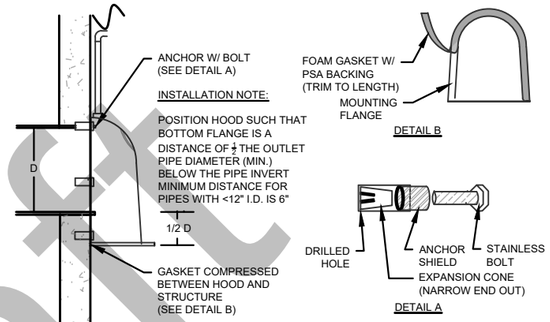
CONNECTION TO EXISTING MANHOLES
NOT TO SCALE



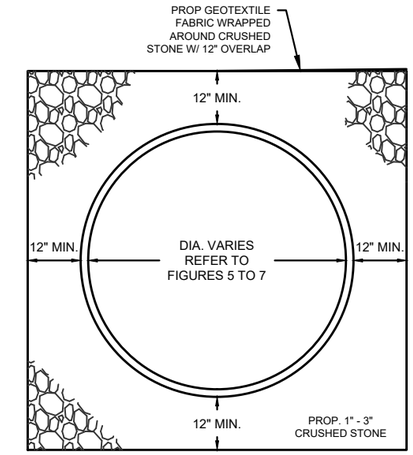
DRAINAGE MANHOLE
NOT TO SCALE



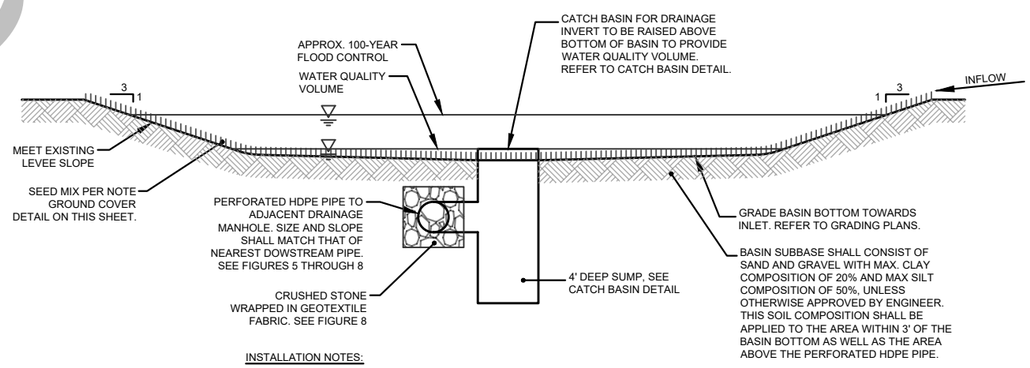
TYPICAL PIPE PLUG IN MANHOLE TO BE ABANDONED
SCALE: NTS



DRAINAGE STRUCTURE HOOD
NOT TO SCALE



PERFORATED PIPE IN CRUSHED STONE
NOT TO SCALE



INSTALLATION NOTES:

1. PRIOR TO INSTALLATION, VERIFY SOIL CONDITIONS OF PLACED BACKFILL MATERIAL TO CONFIRM ADEQUATE DRAINAGE WILL BE ACHIEVED.
2. EXCAVATE/CONSTRUCT BASIN ONLY WITH LIGHT EARTH-MOVING EQUIPMENT TO AVOID EXCESSIVE COMPACTING OF SOILS BENEATH BASIN FLOOR. AVOID CONSTRUCTION IN WINTER OR DURING RAIN EVENTS TO EXTENT POSSIBLE.
3. AFTER THE BASIN FLOOR IS SHAPED, PLACE SOIL ADDITIVES ON THE BASIN FLOOR TO AMEND THE SOIL, INCLUDING COMPOST (PROPERLY AGED TO KILL ANY SEED STOCK CONTAINED WITHIN) AND MIXED NATIVE SOILS FROM A OR B HORIZONS.
4. SCARIFY NATIVE MATERIALS AND COMPOST INTO THE PARENT MATERIAL USING A CHISEL PLOW OR ROTARY DEVICE TO A DEPTH OF 12 INCHES.
5. IMMEDIATELY AFTER BASIN IS CONSTRUCTED, STABILIZE BOTTOM AND SIDE SLOPES WITH DENSE GRASS TURF (SEE SEED MIX NOTES ON THIS SHEET).
6. INSPECT BASIN REGULARLY DURING THE FIRST TWO MONTHS FOLLOWING INSTALLATION TO DETERMINE IF REMEDIAL ACTIONS (E.G. RESEEDING, IRRIGATING) ARE NECESSARY.

INFILTRATION BASIN
SCALE: NTS

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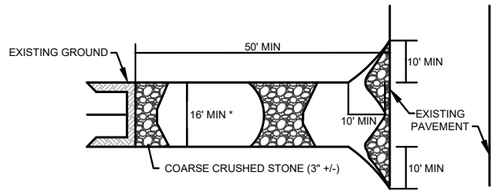
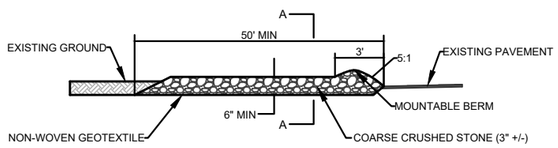
Figure No. 9

Details

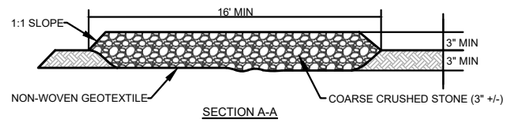


* MUST EXTEND FULL WIDTH OF INGRESS AND EGRESS OPERATION

PLAN VIEW



SIDE ELEVATION



SECTION A-A

TEMPORARY CONSTRUCTION ENTRANCE NOTES

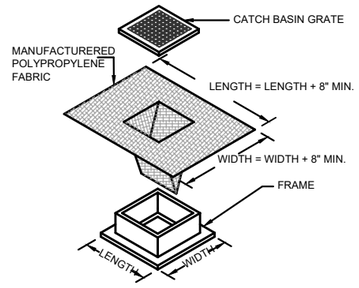
1. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE. EXISTING PAVEMENT MAY REMAIN.
2. IF SLOPE TOWARDS THE PUBLIC ROAD EXCEED 2%, CONSTRUCT A 6- TO 8-INCH RIDGE WITH 3H:1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF FROM IT.
3. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS.
4. PLACE STONE TO DIMENSIONS AND GRADE AS SHOWN ON PLANS. LEAVE SURFACE SLOPED FOR DRAINAGE.

MAINTENANCE

1. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
2. TOP DRESS WITH CLEAN STONE AS NEEDED.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

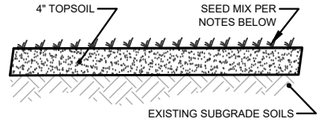


NOTES:

1. LENGTH AND WIDTH OF POLYPROPYLENE FABRIC MUST EXCEED EXISTING CATCH BASIN FRAME DIMENSIONS BY A MINIMUM OF 8".
2. REMOVE CATCH BASIN GRATE AND INSTALL POLYPROPYLENE FABRIC OVER CATCH BASIN FRAME. REPLACE CATCH BASIN GRATE TO SECURE POLYPROPYLENE FABRIC IN PLACE.
3. CATCH BASIN EROSION CONTROL TO BE PLACED AT EXISTING AND PROPOSED ALL CATCH BASINS IN VICINITY OF WORK AREA.

CATCH BASIN SEDIMENTATION CONTROL PROTECTION - SILT SACK

SCALE: NTS

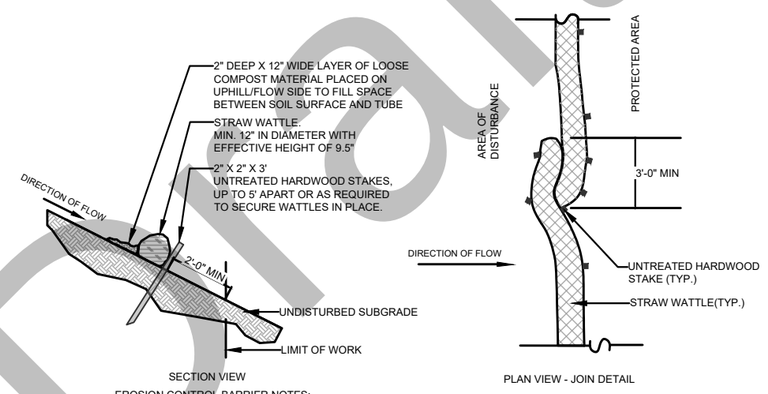


SEED MIX NOTES:

- SEED SHALL BE LOW UPLAND MIX - FULL SUN PER MASSDOT ITEM NUMBER 765.412, OR APPROVED EQUIVALENT.
- APPLY SEED AT A RATE OF 75 LB/ACRE OR 175 LB/ACRE ON AREAS OF GREATER THAN 3:1 SLOPE
- APPLY 30LB/ACRE OF A COVER CROPS. FOR COVER CROP USE EITHER GRAIN OATS (1 JAN TO 31 JULY) OR GRAIN RYE (1 AUG TO 31 DEC).
- FERTILIZER SHALL NOT BE USED.

GROUND COVER FOR RESTORED AREAS

SCALE: NTS



EROSION CONTROL BARRIER NOTES:

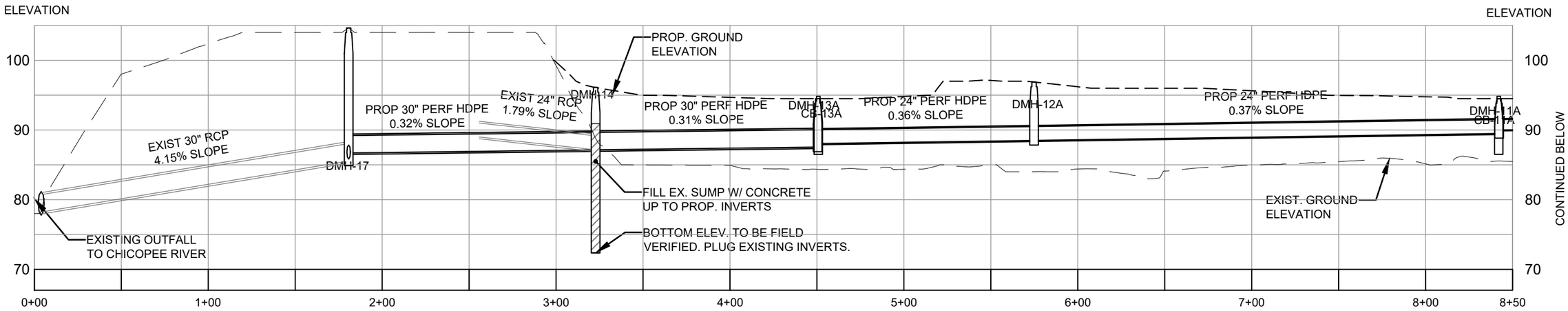
1. PROVIDE A MINIMUM DIAMETER OF 12 INCHES FOR SLOPES UP TO 50 FEET IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
2. INSTALL ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
3. WATTLES SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL. ADDITIONAL WATTLES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
4. STAMP WATTLES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. PROVIDE A 3' MINIMUM OVERLAP AT ENDS TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW. STAKE JOINING WATTLES SNUGLY AGAINST EACH OTHER TO PREVENT UNFILTERED FLOW BETWEEN THEM.
5. SECURE ENDS WITH STAKES SPACED 18" APART THROUGH TOPS OF TUBES.

EROSION CONTROL BARRIER

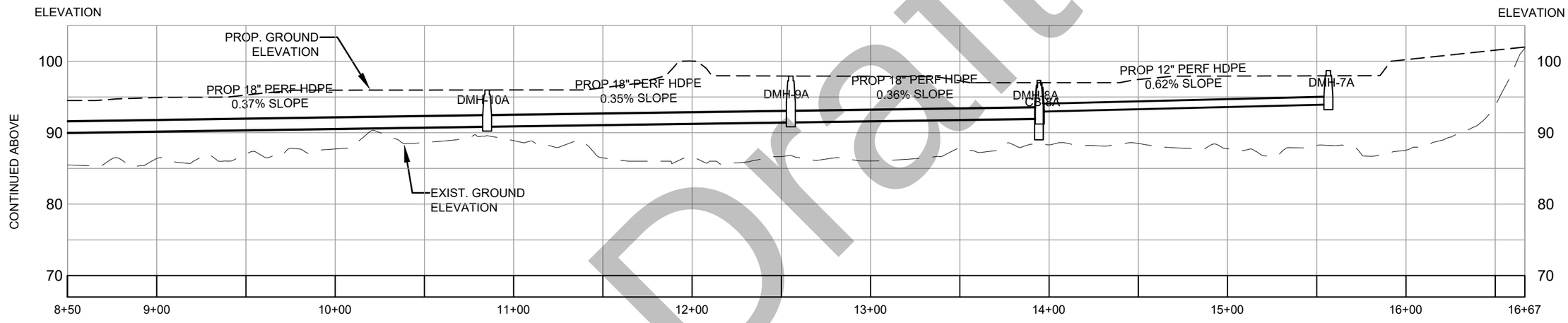
SCALE: NTS

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 OF ACUSHNET REGULATIONS, AND USACE 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. THE 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 USACE 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-SEEDED 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.



DRAIN PROFILE - UNIROYAL SYSTEM
STA 0+00 TO 8+50



DRAIN PROFILE - UNIROYAL SYSTEM
STA 8+50 TO 16+66

NOTES:

1. REFER TO FIGURES 5 THROUGH 6 FOR DRAINAGE STRUCTURE SCHEDULE AND FIGURE 9 FOR STRUCTURE 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.

VERT. SCALE IN FEET: 1" = 15'
0 15 30
0 60 120
HORR. SCALE IN FEET: 1" = 60'

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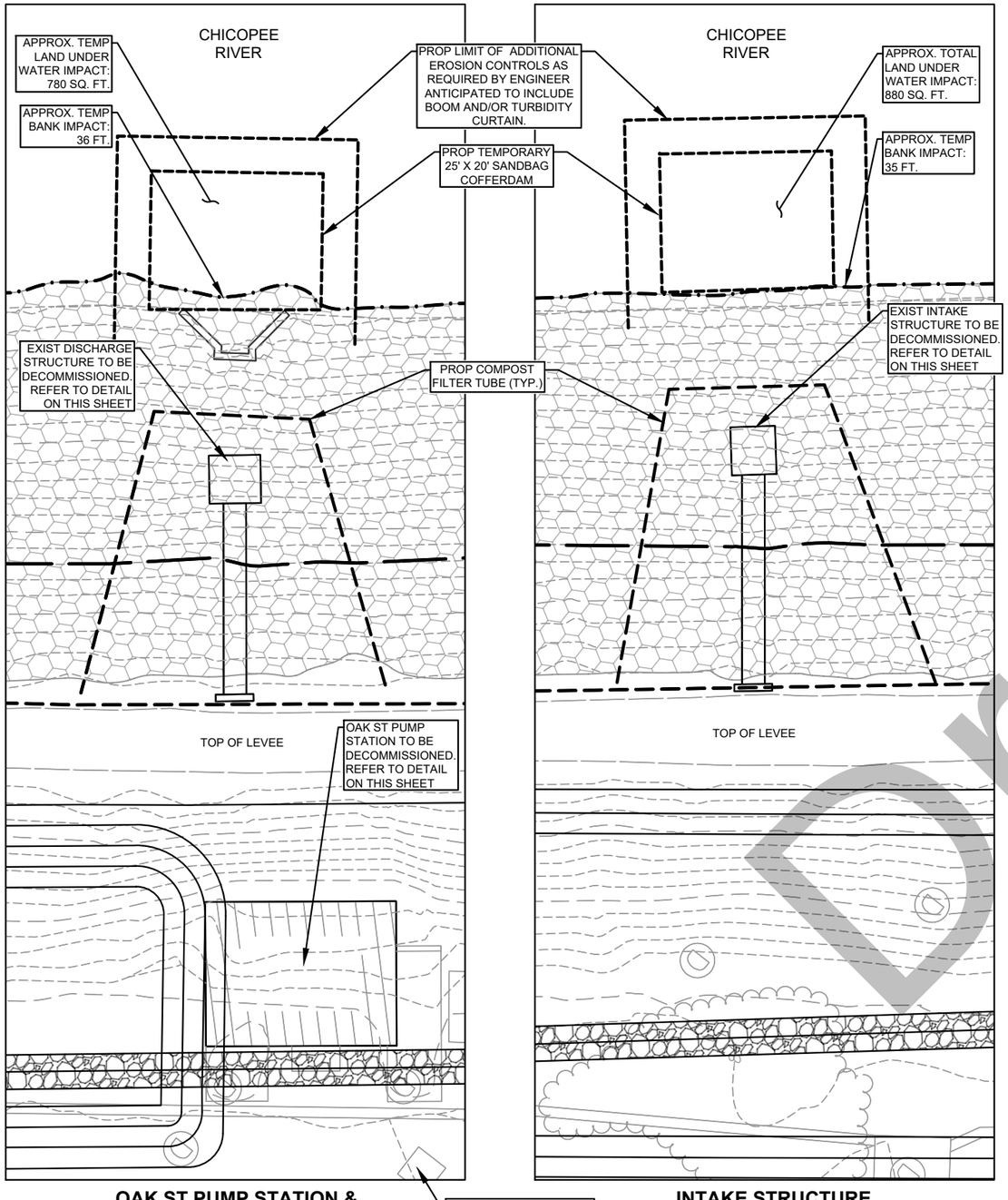
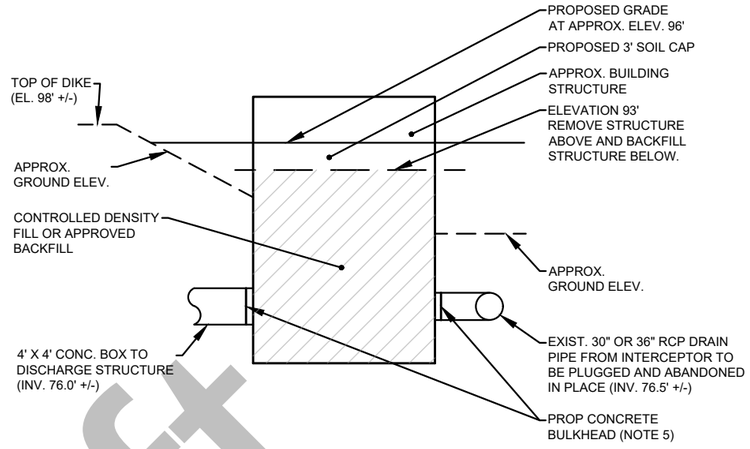
Figure No. 11

Drainage Profile



OAK ST PUMP STATION & DISCHARGE STRUCTURE
SCALE: 1" = 20'

INTAKE STRUCTURE
SCALE: 1" = 20'



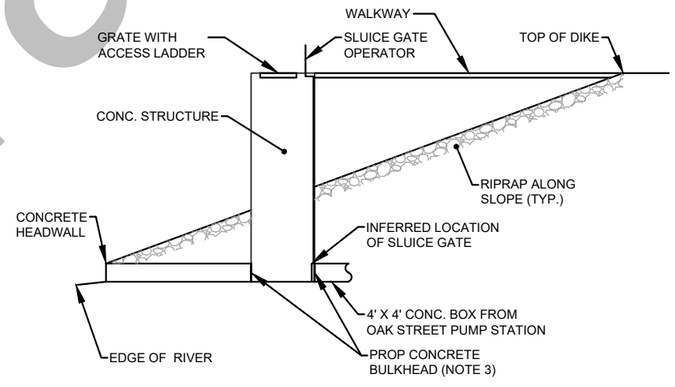
DECOMMISSIONING OF OAK ST. PUMP STATION
NOT TO SCALE

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. 93')
7. DEMOLISH ELEVATED TANK STRUCTURE LOCATED TO THE NORTH OF THE PUMP STATION. LOWER ASSOCIATED CONCRETE FOOTINGS TO AT LEAST 3' BELOW PROPSOED 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.



DECOMMISSIONING OF OAK ST. PUMP STATION DISCHARGE & INTAKE STRUCTURES
NOT TO SCALE

GENERAL SEQUENCE OF WORK - DISCHARGE & INTAKE STRUCTURES

1. DEWATER STRUCTURE AS NEEDED AND INSTALL TEMPORARY MEASURES TO PREVENT WATER FROM ENTERING STRUCTURE.
2. REMOVE SLUICE 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 SLUICE 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.

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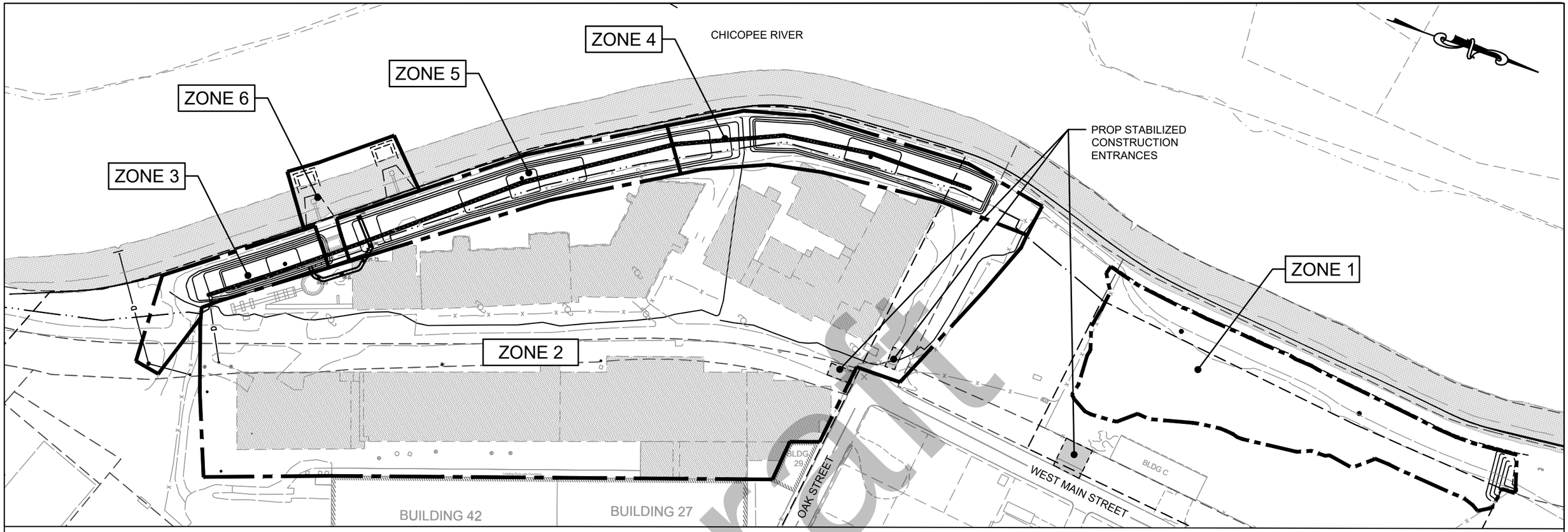
Figure No. 12

Oak Street Pump Station And Construction Notes



CONCEPTUAL CONSTRUCTION SEQUENCE

- PHASE 1 CAN BE CONDUCTED CONCURRENTLY WITH PHASES 2 - 7.

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 STRUCTURE 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. REMOVE AND REPLACE EXISTING STRAW WATTLES.
- PLUG EXISTING BYPASS LINE SOUTH OF BUILDING C.
- MODIFY EXIST CATCH BASINS. ADJUST CB-14 AS REQUIRED BY ENGINEER.
- CONDUCT GRADING OF ZONE 1 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 PHASES 2 THROUGH 5.
- CONDUCT GRADING OF ZONE 3 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.
- ENSURE THAT DEMOLITION OF BUILDING 15 IS COMPLETED PRIOR TO START OF PHASE 4 (UNDER SEPARATE CONTRACT).
- DEMOLISH ELEVATED TANK STRUCTURE NEAR PUMP STATION.

PHASE 3 (ZONE 3)
- FILL AND/OR ABANDON EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH SITE PLANSET.
- ADJUST DMH-14 AND DMH-17, AND INSTALL 24" HDPE BETWEEN THE TWO STRUCTURES. EVALUATE EXISTING NORTHBOUND INVERT AT DMH-14.
- BACKFILL ZONE TO THE APPROXIMATE BOTTOM ELEVATION OF THE PROPOSED INFILTRATION BASIN, EXCLUDING THE FOOTPRINT AND IMMEDIATE VICINITY OF PROPOSED DRAINAGE STRUCTURES AND DRAIN LINES.
- TEMPORARILY GRADE NORTH SIDE OF ZONE 3 TO MAXIMUM SLOPE OF 3:1 TO MEET EXISTING GRADES.
- INSTALL PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE. PIPE BETWEEN DMH-13A & DMH-12A TO BE CONSTRUCTED DURING PHASE 6.
- CONSTRUCT INFILTRATION BASIN AND BACKFILL ZONE TO FINAL GRADES.

PHASE 4 (ZONE 4)
- FILL AND/OR ABANDON EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH SITE PLANSET.
- BACKFILL ZONE TO THE APPROXIMATE BOTTOM ELEVATION OF THE PROPOSED INFILTRATION BASIN, EXCLUDING THE FOOTPRINT AND IMMEDIATE VICINITY OF PROPOSED DRAINAGE STRUCTURES AND DRAIN LINES.
- TEMPORARILY GRADE SOUTH SIDE OF ZONE 4 TO MAXIMUM SLOPE OF 3:1 TO MEET EXISTING GRADES.
- INSTALL PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE. TEMPORARILY GRADE PIPE-LESS OUTLET FROM DMH-10A TO CONVEY FLOWS TO NEARBY EXISTING CATCH BASIN.
- CONSTRUCT INFILTRATION BASIN AND BACKFILL ZONE TO FINAL GRADES.

PHASE 5 (ZONE 5)
- FILL AND/OR ABANDON EXISTING DRAINAGE STRUCTURES IN ACCORDANCE WITH SITE PLANSET, EXCLUDING STRUCTURES NECESSARY FOR PUMP STATION OPERATION.
- BACKFILL ZONE TO THE APPROXIMATE BOTTOM ELEVATION OF THE PROPOSED INFILTRATION BASIN, EXCLUDING THE FOOTPRINT AND IMMEDIATE VICINITY OF PROPOSED DRAINAGE STRUCTURES AND DRAIN LINES.
- TEMPORARILY GRADE SOUTH SIDE OF ZONE 5 TO MAXIMUM SLOPE OF 3:1 TO MEET EXISTING GRADES.
- INSTALL PROPOSED DRAINAGE STRUCTURES, DRAINAGE PIPES, AND CRUSHED STONE AROUND PERFORATED PIPE. TEMPORARILY GRADE PIPE-LESS OUTLET FROM DMH-12A TO CONVEY FLOWS TO NEARBY EXISTING CATCH BASIN.
- CONSTRUCT INFILTRATION BASIN AND BACKFILL ZONE TO FINAL GRADES.

PHASE 6 (ZONE 6)
- CONSTRUCT TEMPORARY SWALE TO DIVERT STORMWATER RUNOFF AWAY FROM PUMP STATION. PROVIDE TEMPORARY PLUG FOR PIPE-LESS OUTLET FROM DMH-12A.
- COMPLETE DECOMMISSIONING OF OAK ST. PUMP STATION, DISCHARGE STRUCTURE, AND INTAKE STRUCTURE (REFER TO FIGURE 12)
- FILL AND/OR ABANDON 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 DRAINAGE PIPE FROM DMH-12A TO DMH-13A AND CRUSHED STONE AROUND PERFORATED PIPE.
- COMPLETE DECOMMISSIONING OF OAK ST. PUMP STATION DISCHARGE STRUCTURE.
- REMOVE TEMPORARY SWALE AND BACKFILL ZONE TO FINAL GRADES.

PHASE 7 (SITEWIDE)
- REMOVE PHASE 7 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

- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- 100-YEAR FEMA FLOOD ZONE

0 150 300

SCALE IN FEET: 1" = 150'

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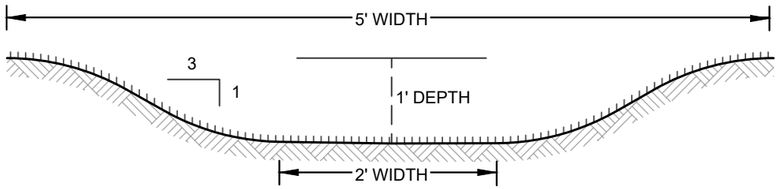
Figure No. 13

Overall Sequencing Plan



GRASSED SWALE
SCALE: NTS

DECOMMISSION EXIST INTAKE STRUCTURE. SEE FIGURE 12.

DMH-11A (NEW)

EXIST. ELEVATED TANK STRUCTURE. SEE FIGURE 12.

DMH-12A (NEW)

ZONE 5

ZONE 6

DECOMMISSION EXIST DISCHARGE FROM PUMP STATION. SEE FIGURE 12.

OAK STREET PUMP STATION TO BE DECOMMISSIONED. SEE FIGURE 12.

DMH-13A (NEW)

ZONE 3

ZONE 2

PROPOSED DIVERSION SWALE TO BE GRADED AS SHOWN DURING PHASE 7.

BUILDING 15 AND ASSOCIATED STRUCTURES TO BE DEMOLISHED UNDER SEPARATE CONTRACT.

DMH-17 (ADJUST)

Utility Tunnel

0 100 200
SCALE IN FEET: 1" = 100'

LEGEND
- PROPERTY LINE
- APPROX. LIMIT OF CHICOPEE RIVER
- APPROX. LIMIT OF USACE PARCEL (TRACT R8)
- 100-YEAR FEMA FLOOD ZONE

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Figure No. 14

Enlarged Sequencing Plan

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