

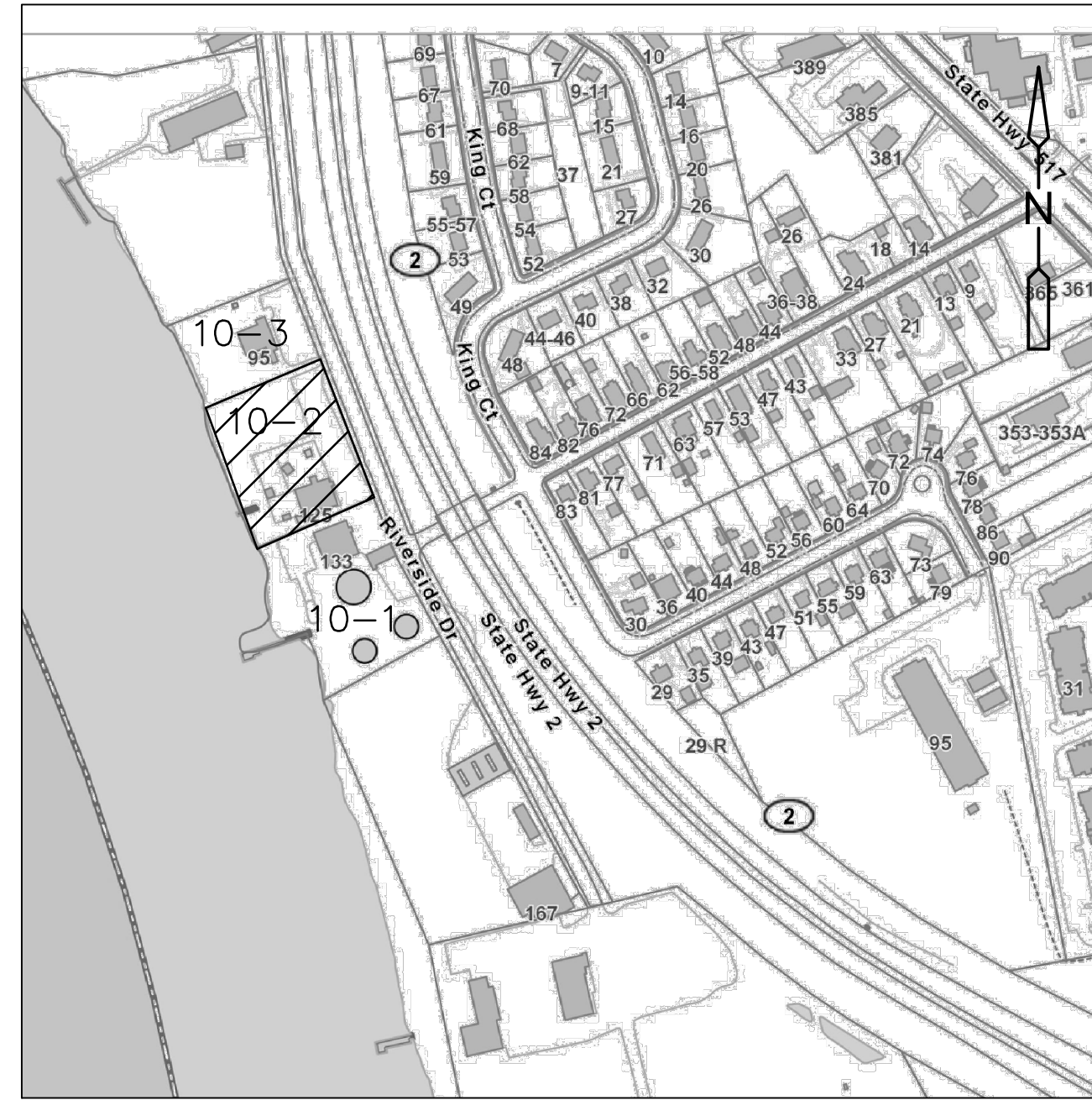
GOODWIN COLLEGE ONE RIVERSIDE DRIVE EAST HARTFORD, CT

RIVERSIDE DRIVE OUTFALL EAST HARTFORD, CT

PROJECT NUMBER
1885

MAY 8, 2017
REV: JUNE 7, 2017

INLAND WETLANDS APPLICATION



LIST OF DRAWINGS	
--	COVER SHEET
GN-1	GENERAL NOTES AND LEGEND
1 OF 1	PROPERTY AND TOPOGRAPHIC SURVEY
DP-1	SITE REMOVAL PLAN
EP-1	EASEMENT PLAN
ES-1	EROSION & SEDIMENTATION CONTROL PLAN
SP-1	SITE LAYOUT PLAN
SP-2	PROFILE (STA. 0 - 1+50)
SP-3	PROFILE (STA. 1+50 - 7+22)
SP-4	OUTFALL PLAN
CD-1 - CD-3	DETAILS

PROJECT SITE - PROPERTY OF GOODWIN COLLEGE INC	
MAP-LOT	PROPERTY ADDRESS
10-2	125 RIVERSIDE DRIVE

ABUTTING PROPERTY OWNERS			
MAP-LOT	PROPERTY ADDRESS	OWNER NAME	OWNER ADDRESS
10-1	133 RIVERSIDE DRIVE	GOODWIN COLLEGE, INC.	1 RIVERSIDE DRIVE EAST HARTFORD, CT 06118
10-3	95 RIVERSIDE DRIVE	THE HARTFORD CANOE CLUB	75 RIVERSIDE DRIVE EAST HARTFORD, CT 06118

INSPECTION NOTES

1. THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 291-7380.
2. THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

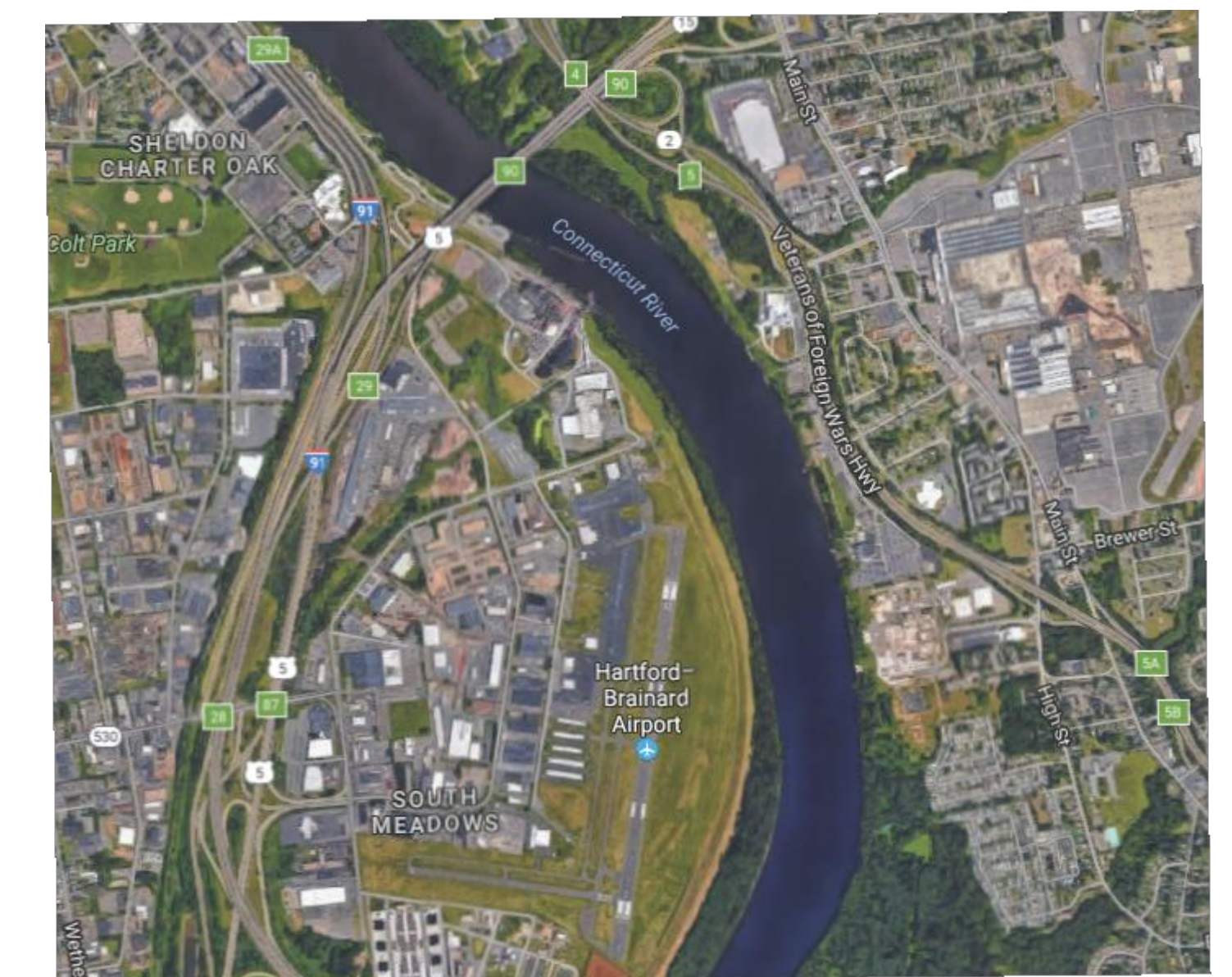
PREPARED FOR



PREPARED BY



40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953



LOCATION MAP

GENERAL NOTES

- ALL CONSTRUCTION ACTIVITIES SHALL BE COMPLETED AS INDICATED IN THE CONTRACT DOCUMENTS AND SHALL COMPLY WITH THE REQUIREMENTS OF GOODWIN COLLEGE, THE TOWN OF EAST HARTFORD, AND THE CONNECTICUT DEPARTMENT OF TRANSPORTATION (CT DOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION, FORM 817, DATED 2016, WITH LATEST UPDATES.
- THE CONTRACTOR SHALL NOTIFY ALL LOCAL UTILITY COMPANIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES AND THE TOWN OF EAST HARTFORD FOR UTILITY LINE RELOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN ONE SET OF CONTRACT DOCUMENTS ON THE PREMISES IN GOOD CONDITION AT ALL TIMES. THE SET SHALL INCLUDE ALL ADDENDA AND CHANGE ORDERS.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION. ANY CONFLICT BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE CONFIRMED WITH THE CONSTRUCTION MANAGER OR THE OWNER'S REPRESENTATIVE PRIOR TO BIDDING.
- STATED DIMENSIONS TAKE PRECEDENCE OVER GRAPHICS. DO NOT SCALE DRAWINGS TO DETERMINE LOCATION AND/OR DIMENSIONS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY GOODWIN COLLEGE, THE ENGINEER, AND THE APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES AND OTHER SITE FEATURES NOT BEING REMOVED AND/OR ALTERED DURING CONSTRUCTION. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL REQUIRED SUBMITTALS TO THE OWNER, CONSTRUCTION MANAGER AND SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 15 WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UTILITIES) TO THE OWNER AND TOWN AT THE END OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROL PERSONNEL AS REQUIRED OR ORDERED BY THE CONSTRUCTION MANAGER, OWNER'S REPRESENTATIVE OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES.
- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. THE LOCATIONS ARE APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF SUPPORT FOR PROTECTION OF PERSONNEL DURING EXCAVATION AND BACKFILLING OPERATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO ANY WORK AND SHALL BE RESPONSIBLE FOR ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUBCONTRACTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPE OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER AND RESPECTIVE UTILITY COMPANY IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVICING ADJACENT PROPERTIES EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER.
- OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN (10) FEET OF ANY ELECTRIC LINE UNDER 50 KV. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE OWNER WILL RETAIN AN INDEPENDENT TESTING LABORATORY FOR SOIL AND PAVEMENT TESTS TO BE DETERMINED BY THE OWNER AND SITE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COSTS INCURRED DUE TO SCHEDULING ISSUES OR FOR REPEATED TESTING DUE TO IMPROPER CONSTRUCTION TECHNIQUES.
- THE SITE CONTRACTOR SHALL NOTIFY THE TOWN OF EAST HARTFORD PRIOR TO COMMENCEMENT OF PAVING WITHIN TOWN RIGHTS OF WAY AND ON-SITE DRAINAGE WORK.
- ALL NEW UTILITIES SHALL BE UNDERGROUND, AS PER TOWN SPECIFICATIONS UNLESS OTHERWISE NOTED.
- NO DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL LOCAL AND STATE GOVERNING AND REGULATORY AGENCIES.
- ALL DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PREMISES AND SHALL BE PROPERLY DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL AREAS SHALL BE KEPT IN A NEAT AND ORDERLY MANNER AT ALL TIMES.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS AND WORKERS AT ALL TIMES.
- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND NOTIFICATION GIVEN TO THE TOWN FOR INSPECTION AS REQUIRED.

- UTILITY CONNECTION LOCATIONS AS DEPICTED ON THESE DRAWINGS MAY CHANGE SUBJECT TO REVIEW BY THE APPLICABLE UTILITY COMPANY.
- ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF EAST HARTFORD, THE APPLICABLE UTILITY COMPANY REQUIREMENTS, AND AS SPECIFIED ON THE DRAWINGS.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO BACKFILLING IN ACCORDANCE WITH THE APPLICABLE UTILITY COMPANY AND/OR THE REQUIREMENTS OF THE TOWN OF EAST HARTFORD.
- ALL DISTURBANCE INCURRED WITHIN THE STATE OR TOWN OF EAST HARTFORD'S RIGHT-OF-WAY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE DEPARTMENT OF TRANSPORTATION OR PUBLIC WORKS REPRESENTATIVE.
- THE CONTRACTOR SHALL VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT THE CONSTRUCTION MANAGER OR OWNER'S REPRESENTATIVE IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT APPROPRIATE MODIFICATIONS MAY BE MADE.
- WORK IN CLOSE PROXIMITY AND RELOCATION OF UTILITY COMPANY FACILITIES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER. UTILITIES WITHIN THE PROJECT LIMITS INCLUDE MDC, CNG, CL&P, AND OTHERS.
- ALL DRAINAGE PIPING SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS IV WITH RUBBER GASKET IN ACCORDANCE WITH ASTM-C-76 AND ASTM-C-443.
- THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL ROADWAY AREAS.
- THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 12" LIFTS ACCORDING TO THE PIPE BEDDING DETAIL. THE TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS.
- ALL UTILITIES AND PIPES SCHEDULED FOR DEMOLITION SHALL BE REMOVED UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO SWEEP THE SURROUNDING ROADWAYS AS REQUIRED BY THE TOWN AND/OR THE OWNER'S REPRESENTATIVE.
- LIME AND FERTILIZER FOR TURF ESTABLISHMENT SHALL CONFORM TO CTDOT FORM 817 M 13.02 AND M 13.03.
- ENDANGERED SPECIES OF MUSSELS HAVE BEEN IDENTIFIED WITHIN THE CT RIVER IN THE AREA OF THE OUTFALL. THE OUTFALL (WORK IN CT RIVER) MUST BE DONE AFTER COMPLETION OF MUSSEL RELOCATION. MUSSEL RELOCATION TO BE COORDINATED AND PAID FOR BY OWNER AND TO BE COMPLETED BETWEEN LATE MAY AND LATE SEPTEMBER, RIVER CONDITIONS PERMITTING. MUSSEL RELOCATION TO BE COMPLETED MAXIMUM OF TWO WEEKS PRIOR TO WORK IN CT RIVER. CONTRACTOR TO SCHEDULE HIS WORK ACCORDINGLY.

GENERAL REMOVAL NOTES

- CONTRACTOR SHALL DEMOLISH AND REMOVE ANY AND ALL ITEMS AS REQUIRED TO CONSTRUCT WORK AT NO ADDITIONAL COST TO THE OWNER.
- DEMOLITION AND/OR ABANDONMENT OF EXISTING UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH RESPECTIVE UTILITY COMPANY'S REQUIREMENTS AND STANDARDS. CONTRACTOR SHALL COORDINATE DEMOLITION AND/OR ABANDONMENT WITH UTILITY COMPANIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROPERLY ABANDON AND/OR DEMOLISH AND REMOVE ANY AND ALL UNEXPECTED UTILITIES DISCOVERED DURING CONSTRUCTION AS APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
- EXCAVATION OPERATIONS SHALL BE EXECUTED CAREFULLY AT ALL LOCATIONS ADJACENT TO EXISTING UNDERGROUND UTILITIES AND VAULTS. PROTECTION OF EXISTING UTILITIES WITHIN THE WORK LIMIT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR AS INDICATED ON THE CONTRACT DRAWINGS.
- ANY DAMAGE TO EXISTING PAVEMENT, CURBS, SIDEWALKS, STRUCTURES OR ANY OTHER APPURTENANCES SHALL BE REPLACED (IN-KIND OR BETTER) BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE. SAW-CUT DAMAGED SECTIONS BACK TO THE NEAREST JOINT WHERE APPROPRIATE AND MATCH EXISTING MATERIALS, THICKNESS, AND PATTERNS.
- CONTRACTOR SHALL SAW-CUT BITUMINOUS AND CONCRETE SURFACES AT LIMITS OF REMOVAL AS REQUIRED TO ACHIEVE A SMOOTH TRANSITION BETWEEN EXISTING SURFACES (TO REMAIN) AND NEW SURFACES. APPLY/INSTALL TACK COATS AND EXPANSION JOINTS AS REQUIRED. ANY EXISTING SURFACES DIRECTLY ADJACENT TO THE LIMIT OF REMOVAL, NOT PREVIOUSLY DAMAGED OR DETERIORATED AND DAMAGED BY CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR TO COORDINATE ALL WORK WITH OWNER AND FOLLOW SAFETY PROCEDURES RECOMMENDED IN MATERIAL SAFETY DATA SHEETS (MSDS), AS APPLICABLE.

LEGEND (EXISTING)

(NOT ALL SYMBOLS MAY BE USED)

- PROPERTY LINE
- EASEMENT LINE
- CURB
- EDGE OF PAVEMENT (EOP)
- TIMBER RAIL
- TIMBER FENCE OR GUIDE RAIL
- CHAIN LINK FENCE
- TREE/VEGETATION LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- TOP/BOTTOM OF CURB ELEVATION
- STREAM OR EDGE OF WATER
- PIPES < 12" Ø (SIZE & MATERIAL)
- PIPES ≥ 12" Ø (SIZE & MATERIAL)
- TELEPHONE/COMMUNICATIONS
- STORM DRAINAGE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- BUCKEYE PIPELINE
- SANITARY SEWER
- WATER
- GAS
- LIMIT OF INLAND WETLANDS
- LIMIT OF 100' REGULATED UPLAND REVIEW AREA
- STUMP
- TREES
- SHRUBS
- CONTROL POINT
- MONUMENT
- IRON PIPE
- IRON PIN
- DRILL HOLE
- BENCHMARK
- SOIL BORING
- SOIL PROBE
- MONITORING WELL
- TEST PIT
- WETLAND FLAG
- TYPE 'C' CATCH BASIN
- TYPE 'CL' CATCH BASIN
- YARD DRAIN
- STORM DRAINAGE MANHOLE
- SANITARY SEWER MANHOLE
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MISCELLANEOUS MANHOLE
- GAS VALVE
- ELECTRICAL BOX
- HAND HOLE
- PAD MOUNTED TRANSFORMER
- HYDRANT
- WATER VALVE
- UTILITY POLE W/ GUY WIRE
- LIGHT POLE, LIGHT BOLLARD
- LUMINAIRE ON STANDARD
- SIGNS
- POST
- BOLLARD

LEGEND (PROPOSED)

(NOT ALL SYMBOLS MAY BE USED)

- PROPERTY LINE
- EASEMENT LINE
- CURB
- EDGE OF PAVEMENT (EOP)
- METAL BEAM GUIDE RAIL
- TIMBER BARRIER RAIL
- CHAIN LINK FENCE
- TREE/VEGETATION LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATION
- TOP/BOTTOM OF CURB ELEVATION
- PIPES
- TELEPHONE/COMMUNICATIONS
- STORM DRAINAGE
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- SANITARY SEWER FORCE MAIN
- SANITARY SEWER
- WATER
- GAS
- EXISTING PIPE TO BE REMOVED
- EXISTING PIPE TO BE ABANDONED
- GEOTEXTILE SILT FENCE
- TEMPORARY SEDIMENT CONTROL
- REMOVE PAVEMENT
- BIT. CONC. PAVEMENT
- TURF ESTABLISHMENT
- CONCRETE SIDEWALK
- EXISTING SITE FEATURE TO BE REMOVED
- EXISTING SITE FEATURE TO BE ABANDONED IN PLACE
- SOIL BORING
- SOIL PROBE
- MONITORING WELL
- TEST PIT
- TYPE 'C' CATCH BASIN
- TYPE 'CL' CATCH BASIN
- YARD DRAIN
- STORM DRAINAGE MANHOLE
- SANITARY SEWER MANHOLE
- ELECTRICAL MANHOLE
- TELEPHONE MANHOLE
- WATER MANHOLE
- MISCELLANEOUS MANHOLE
- GAS VALVE
- ELECTRICAL BOX
- HAND HOLE
- PAD MOUNTED TRANSFORMER
- HYDRANT
- WATER VALVE
- UTILITY POLE W/ GUY WIRE
- LUMINAIRE ON STANDARD
- SIGNS
- POST
- BOLLARD
- TREES
- SHRUBS
- GRADE TO DRAIN
- PORTABLE DUMPSTER CONTAINER

ABBREVIATIONS

(NOT ALL ABBREVIATIONS MAY BE USED)

ABND	ABANDONED	GM	GAS METER	TYP.	TYPICAL
AM	AIR MAIN	GTD	GRADE TO DRAIN	UD	UNDERDRAIN
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE	HC	HANDICAP	UKWN	UNKNOWN
APPROX.	APPROXIMATE	HDPE	HIGH DENSITY POLYETHYLENE	VC	VITRIFIED CLAY
BC	BOTTOM OF CURB	HDS	HYDRODYNAMIC SEPARATOR STRUCTURE	VIF	VERIFY IN FIELD
BCLC	BITUMINOUS CONCRETE LIP CURB	HH	HANDHOLE	W	WATER
BOT	BOTTOM	HP	HIGH POINT	WM	WATER METER
BIT.	BITUMINOUS	HYD	HYDRANT	WMH	WATER MANHOLE
BL	BASELINE	ID	INSIDE DIAMETER	WS	WATER STOP
BM	BENCHMARK	IE	INVERT ELEVATION	WV	WATER VALVE
BO	BLOW OFF	INV	INVERT	YD	YARD DRAIN
BOW	BOTTOM OF WALL	KVE	ELECTRIC CABLE		
CL	CENTER LINE	LP	LOW POINT		
C-CB	TYPE "C" CATCH BASIN	MH	MANHOLE		
CL-CB	TYPE "C-L" CATCH BASIN	NTS	NOT TO SCALE		
CI	CAST IRON	O.C.	ON CENTER		
CIP	CAST IRON PIPE	O.D.	OUTSIDE DIAMETER		
CLF	CHAIN LINK FENCE	PB	PULL BOX		
CMP	CORRUGATED METAL PIPE	P	POLYETHYLENE		
CMU	CONCRETE MASONRY UNIT	PVMT	PROPERTY LINE		
C.O.	CLEAN OUT	PCCP	PRESTRESSED CONCRETE CYLINDRICAL PIPE		
CONC.	CONCRETE	PVC	POLYVINYL CHLORIDE		
CPP	CORRUGATED PLASTIC PIPE	RCP	REINFORCED CONCRETE PIPE		
DI	DUCTILE IRON	R	RADIUS		
DIP	DUCTILE IRON PIPE	RD	ROOF DRAINAGE		
DEG	DEGREES	RWL	RAIN WATER LEADER		
DIA	DIAMETER	S	PIPE SLOPE		
DMH	DRAINAGE MANHOLE	SAN	SANITARY		
DR	DRAIN LINE	SD	STORM DRAIN		
DW	DOMESTIC WATER	SHT	DRAWING NO. SHEET		
ELEC	ELECTRICAL	SMH	SANITARY MANHOLE		
EL	ELEVATION	SPPC	STORMWATER POLLUTION CONTROL PLAN		
EMH	ELECTRICAL MANHOLE	STM	STORM		
EOP	EDGE OF PAVEMENT	SW	SERVICE WATER		
EX.	EXISTING	TC	TOP OF CURB		
EXIST.	EXISTING	TEMP.	TEMPORARY		
FE	FLARED END	TEL	TELEPHONE		
F.F.D.	FLOOR DRAIN	TF	TOP OF FRAME		
FF	FINISHED FLOOR	TMH	TELEPHONE/COMMUNICATIONS MANHOLE		
FFE	FINISHED FLOOR ELEVATION	TOG	TOP OF GRATE		
FLR	FLOOR	TOS	TOP OF SLAB		
FRP	FIBERGLASS REINFORCED PLASTIC	TOW	TOP OF WALL		
G	GAS				

NOTES:

THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 860-291-7380.

THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

FILE PATH: H:\Projects\Goodwin College\1885 - Riverside Drive Outfall\AutoCAD\1885 - Riverside Drive Outfall\General Notes.dwg PLOT DATE: 4/22/2019 PLOT TIME: 4:00:19 PM

PROJECT NO.:	1885
DESIGNED BY:	
DRAWN BY:	KML
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	GLJ
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	REMARKS

PREPARED FOR:



ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:



40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

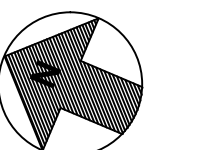
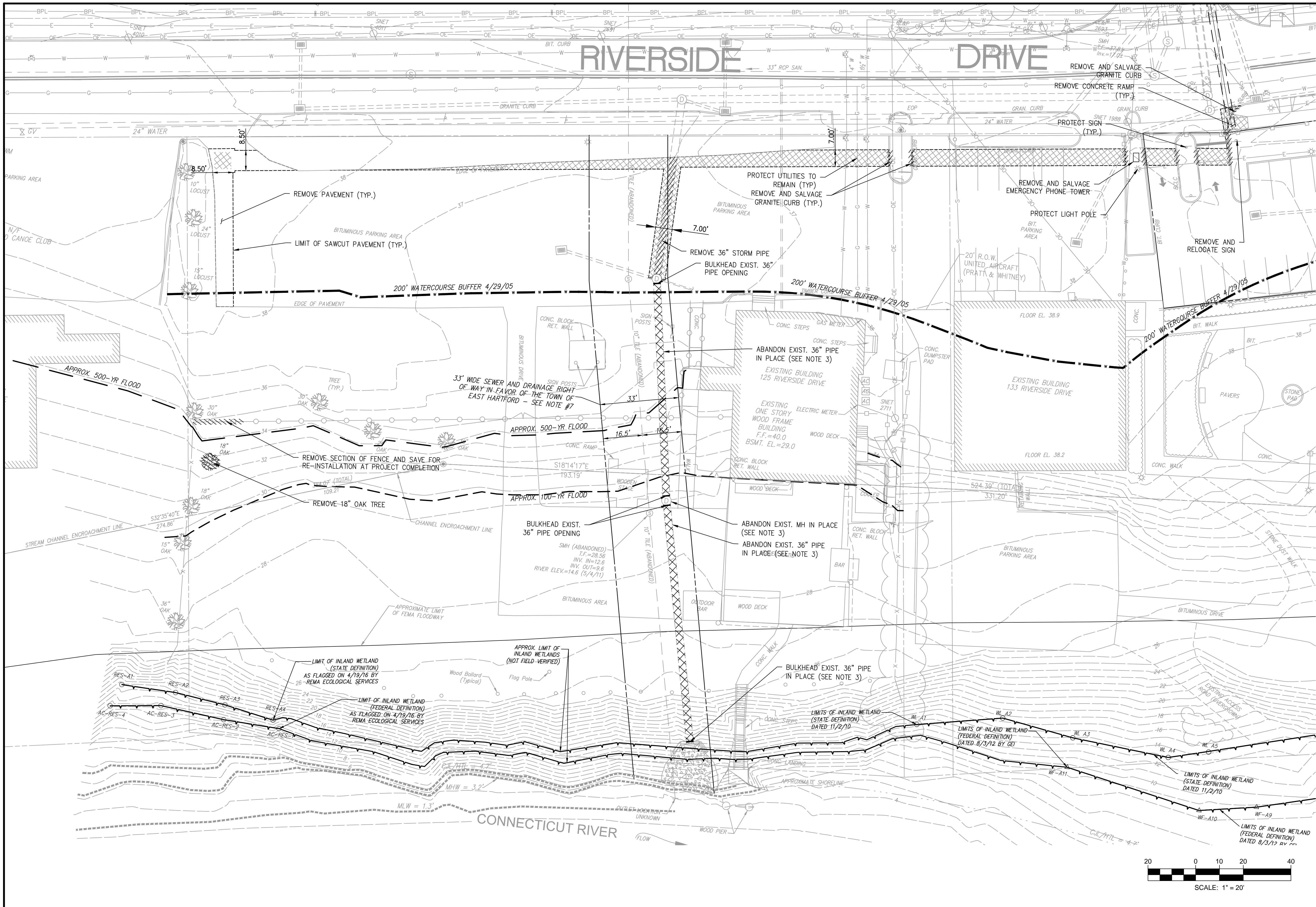
RIVERSIDE DRIVE OUTFALL

125 RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

GENERAL NOTES AND LEGEND

SHEET NO.

GN-1

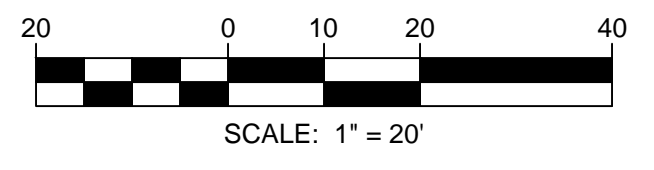


REMOVAL PLAN NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES, STRUCTURES, AND OTHER SITE FEATURES NOT BEING REMOVED AND/OR ALTERED AS PART OF THE PROJECT SCOPE. THE CONTRACTOR SHALL REPAIR OR REPLACE UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF WORK AT THE CONTRACTOR'S EXPENSE.
2. ALL STRUCTURES, SITE FEATURES, AND UTILITIES TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
3. EXISTING 36" PIPE TO BE ABANDONED IN PLACE WITH BULKHEADS INSTALLED WHERE SHOWN, AND AT LATER DATE WHEN 125 RIVERSIDE DRIVE IS RE-DEVELOPED, THE PIPE IS EITHER TO BE REMOVED, OR FILLED WITH FLOWABLE CONCRETE FILL.
4. STUMPS SHALL NOT BE BURIED ON SITE.
5. REMOVAL OF EXISTING SIDEWALK SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT.

NOTES:
 THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 860-291-7380.

THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.



FILE PATH: H:\Projects\Goodwin College\1885 - Riverside Drive Outfall\AutoCAD\1885 - Removal Plan.dwg PLOT DATE: 4/22/2019 PLOT TIME: 4:01:08 PM

PROJECT NO.:	1885
DESIGNED BY:	GBS
DRAWN BY:	SJH
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	JFS
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PREPARED FOR:



GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:

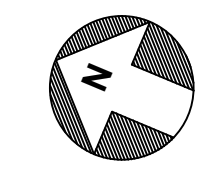


ZUVIC-CARR AND ASSOCIATES
 CONSULTING ENGINEERS
 40 Cold Spring Road • Rocky Hill, CT 06067
 Phone 860.436.4901 • Fax 860.436.4953

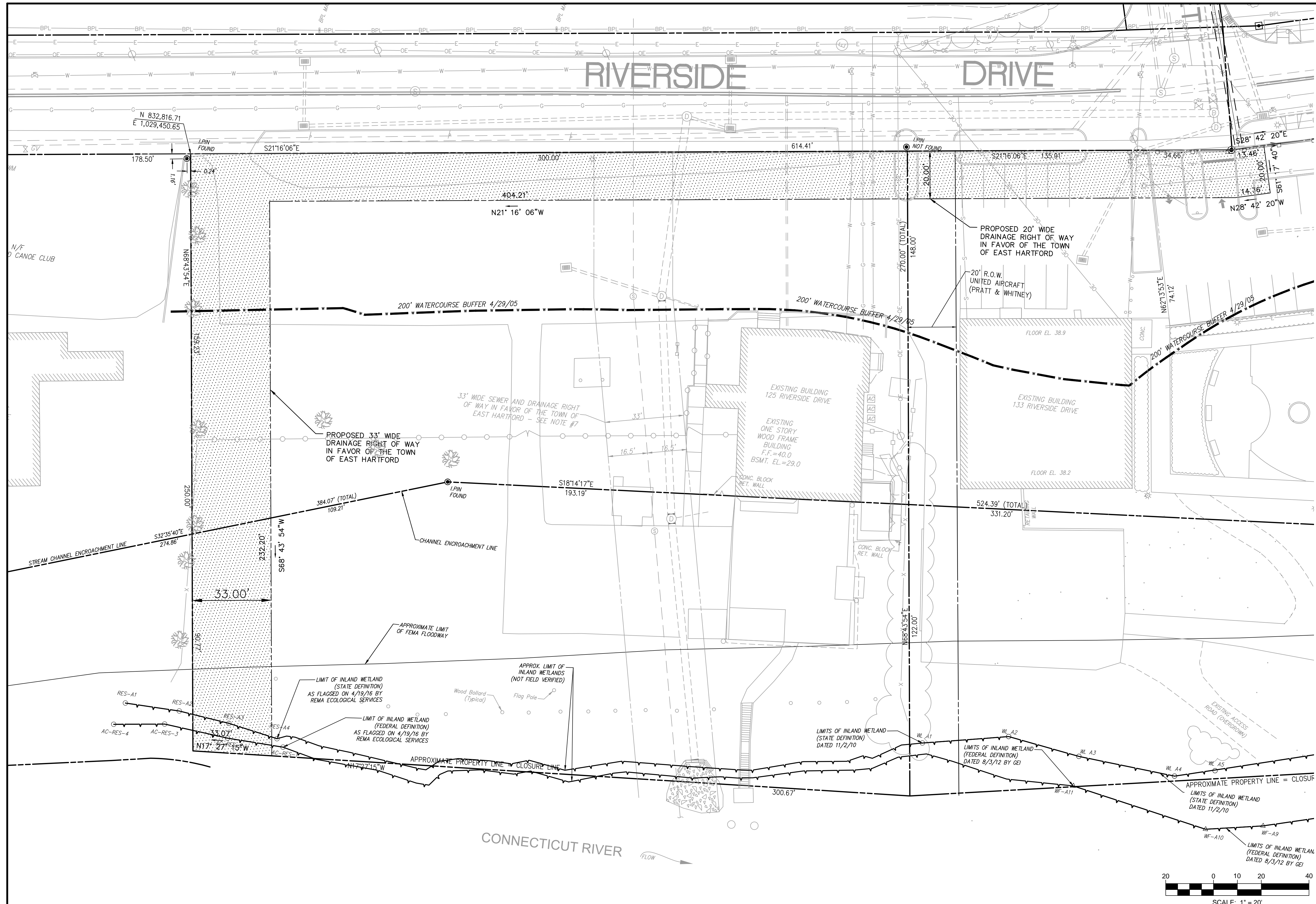
RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

SITE REMOVAL PLAN

SHEET NO.
DP-1



RIVERSIDE DRIVE




NOTES:
 THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 860-291-7380.

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FILE PATH: H:\Projects\Goodwin College\1885 - Riverside Drive Outfall\AutoCAD\1885 - Easement Plan.dwg PLOT DATE: 4/4/2019 PLOT TIME: 4:01:59 PM

PROJECT NO.:	1885
DESIGNED BY:	GBS
DRAWN BY:	SJH
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	JFS
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	REMARKS
2	9-18	NJM	GBS	PER TOWN COMMENTS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PREPARED FOR:

GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:

ZUVIC-CARR AND ASSOCIATES
 CONSULTING ENGINEERS
 40 Cold Spring Road • Rocky Hill, CT 06067
 Phone 860.436.4901 • Fax 860.436.4953

RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

EASEMENT PLAN

SHEET NO.
EP-1

EROSION AND SEDIMENTATION CONTROL PLAN

NARRATIVE

THE SUBJECT SITES ARE LOCATED AT 125 AND 133 RIVERSIDE DRIVE IN THE CITY OF EAST HARTFORD, CONNECTICUT AND CONTAIN A TOTAL OF 3.8 ACRES. THE SITES ARE OCCUPIED BY COMMERCIAL BUILDINGS, PAVEMENT, PATIOS AND SIDEWALKS. THE SITES ARE LOCATED WITHIN THE I-3 INDUSTRIAL ZONE.

THE SITES GENERALLY SLOPE IN A NORTHWESTERLY TO SOUTHEASTERLY DIRECTION DOWN TOWARDS THE CONNECTICUT RIVER. A PIPED STORMWATER COLLECTION SYSTEM BISECTS THE 125 RIVERSIDE DRIVE SITE DISCHARGING THROUGH A 36" OUTFALL TO THE CONNECTICUT RIVER.

WORK INCLUDES THE CONSTRUCTION OF A 54" AND 72" STORM SEWER WHICH WILL CONNECT INTO THE EXISTING 36" STORM SEWER PIPE WITHIN 125 RIVERSIDE DRIVE AND ALSO INTO A NEW 36" PIPE INSTALLED WITHIN 133 RIVERSIDE DRIVE AT THE ENSIGN STREET INTERSECTION. THE NEW OUTFALL FOR THE 72" STORM SEWER WILL BE LOCATED APPROXIMATELY 200 FEET NORTH OF THE EXISTING OUTFALL, WHICH WILL BE ABANDONED UPON COMPLETION OF THE PROJECT.

THE ESTIMATED TOTAL AREA OF THE SITES THAT ARE EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES IS APPROXIMATELY 0.12 ACRES (5,000 SF).

CONSTRUCTION SCHEDULE

ESTIMATED START OF CONSTRUCTION IS SPRING 2019. ESTIMATED COMPLETION OF CONSTRUCTION IS FALL 2019 (FINAL STABILIZATION).

RESPONSIBLE CONTACT

THE RESPONSIBLE CONTACT PERSON FOR ASSURING THAT ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE PROPERLY INSTALLED AND MAINTAINED WILL BE DESIGNATED BY THE SITE CONTRACTOR. THE RESPONSIBLE CONTACT PERSON FOR MAINTAINING THE PERMANENT MEASURES WHEN THE PROJECT IS COMPLETE WILL BE DAN LARSON OF GOODWIN COLLEGE.

GENERAL EROSION AND SEDIMENTATION CONTROL NOTES

1. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE DRAWINGS DEPICT THE MINIMUM EROSION AND SEDIMENT CONTROL PRACTICES REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PREVENT ERODED MATERIALS FROM LEAVING THE SITE.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND APPROVED PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION.
3. EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL AREAS ARE STABILIZED. IF FULL IMPLEMENTATION OF APPROVED EROSION CONTROL PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER/OWNER TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR SHALL KEEP ALL PUBLIC ROADWAYS CLEAN AND CLEAR OF ALL MUD AND DEBRIS DURING CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT MEASURES NECESSARY FOR DUST CONTROL, INCLUDING BUT NOT LIMITED TO ROADWAY SWEEPING AND WATERING.
5. APPLY TEMPORARY SEEDING OR MULCH TO AREAS WHERE ROUGH GRADING HAS BEEN COMPLETED BUT FINAL GRADING IS NOT ANTICIPATED TO BEGIN WITHIN 30 DAYS OF THE COMPLETION OF ROUGH GRADING. WHEN CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WHEN FINAL GRADES ARE REACHED, STABILIZATION AND PROTECTION MEASURES SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE REQUIREMENTS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" AS AMENDED.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

SILT FENCE

- A. SILT FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THIS PLAN AND AS DIRECTED BY THE ENGINEER.
- B. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
- C. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND INSTALL THE POST AT LEAST 1.5 FEET INTO THE GROUND.
- D. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
- E. BACKFILL THE TRENCH AND COMPACT.

SEDIMENT CONTROL AT CATCH BASINS

- A. PLACE SILT SACKS UNDER GRATE AT EACH CATCH BASIN AT LOCATIONS SHOWN ON DRAWINGS.

GENERAL CONSTRUCTION SEQUENCE

1. COORDINATE WORK WITH OWNER FOR OUTFALL CONSTRUCTION. WORK MUST BE COMPLETE WITHIN 2 WEEKS OF MUSSEL RELOCATION AS REQUIRED. (SEE GENERAL NOTES #37 ON SHEET GN-1)
2. INSTALL SOIL AND EROSION CONTROL MEASURES INCLUDING BUT NOT LIMITED TO: SILT FENCE AND SILT SACKS.
3. STRIP AND STOCKPILE TOPSOIL. NO TOPSOIL SHALL BE REMOVED FROM THE SITE WITHOUT THE PERMISSION OF THE OWNER EXCEPT FOR TOPSOIL STRIPPED FROM STEEP SLOPES CONTAINING INVASIVES.
4. COMMENCE REMOVAL OF BITUMINOUS PAVEMENT, CONCRETE SIDEWALKS, CURBING, FENCES, ETC.
5. PERFORM ROUGH GRADING. EXCESS MATERIAL SHALL BE TAKEN DIRECTLY OFF-SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR. INVASIVE PLANT SPECIES (INCLUDING MULTIFLORA ROSE, ASIATIC BITTERSWEET, AND GARLIC MUSTARD) LOCATED WITHIN 10 FEET OF ANY DISTURBED AREAS OF STEEP SLOPES LOCATED IN THE OUTLET CORRIDOR SHALL BE CONTROLLED OR ERADICATED USING THE PROTOCOLS PROMULGATED BY THE CT DEEP AND/OR THE NATURE CONSERVANCY.
6. CONTINUE EARTHWORK IN EXPEDITIOUS MANNER, AND STABILIZE. INSTALL ADDITIONAL EROSION CONTROLS AS DIRECTED BY THE ENGINEER OR OWNER'S REPRESENTATIVE.
7. COMPLETE INSTALLATION OF STORM STRUCTURES AND PIPE. PLACE 10" OF TOPSOIL THAT IS FREE FROM INVASIVE SPECIES ON THE STEEP SLOPES WITHIN THE OUTLET CORRIDOR. TOPSOIL REMOVED FROM THIS AREA SHALL NOT BE REUSED.
8. COMPLETE INSTALLATION OF GRANITE CURB, SIDEWALKS, AND RAMPS.
9. COMPLETE INSTALLATION OF BITUMINOUS CONCRETE PAVEMENT AND BITUMINOUS CURBS IN PARKING AREAS AND ACCESS DRIVES. INSTALL STRIPING AND SIGNAGE.
10. COMPLETE REPLACEMENT OF DECORATIVE FENCING.
11. PREPARE FINAL GRADE FOR AREAS DISTURBED BY CONSTRUCTION NOT RECEIVING A HARD SURFACE. PLACE 6" OF TOPSOIL ON DISTURBED AREAS OTHER THAN AREAS OF STEEP SLOPES (10") AFTER FINAL GRADING IS COMPLETED. APPLY FERTILIZER, SEED AND MULCH.
12. REMOVE EROSION CONTROLS AFTER AREAS ARE STABILIZED AND ACCEPTED BY THE OWNER.

SEQUENCE OF OPERATIONS - EARTHWORK OPERATIONS

PHASE I - INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL MEASURES

1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO SILT FENCE AND SILT SACKS SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION ACTIVITIES UNTIL THE ENGINEER HAS INSPECTED AND APPROVED THE INSTALLATION OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CONSTRUCTION SO AS NOT TO DISTURB SEDIMENTATION AND EROSION CONTROL STRUCTURES.
4. ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS PRACTICAL.

PHASE II - ROUGH GRADING

1. STRIP AND STOCKPILE EXISTING TOPSOIL. ALL STOCKPILED TOPSOIL SHALL BE SEED, MULCHED WITH STRAW, AND ENCLOSED BY A SILT FENCE. STUMPS SHALL BE HAULED OFFSITE TO AN APPROVED DISPOSAL FACILITY. TOPSOIL FROM SLOPES CONTAINING INVASIVES IS NOT TO BE REUSED ON SITE, AND SHALL BE REMOVED AS REQUIRED.
2. PERFORM SITE DEMOLITION AND REMOVAL OF ALL BITUMINOUS PAVEMENT AS REQUIRED.
3. ESTABLISH THE SUBGRADE FOR AREAS TO BE PAVED, SEED, AND LANDSCAPED.

PHASE III - PIPE INSTALLATION, FINAL GRADING AND PAVING

1. INSTALL STORM STRUCTURES BEGINNING WITH OUTFALL AND WORKING UPSLOPE. INSTALL RIPRAP ON OUTLET DURING LOW TIDE AFTER INSTALLATION OF OUTLET HEADWALL.
2. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING AND UNTIL TURF IS ESTABLISHED. EROSION CONTROL MATTING SHALL BE INSTALLED ON SEED, MULCH, AND SOIL AREAS WHERE THE SLOPE EXCEEDS 3:1. FOR ANY EXPOSED SOIL AREAS WITHIN STEEP SLOPES, PROVIDE 10" OF TOPSOIL AND SEED WITH NEW ENGLAND ROADSIDE MATRIX UPLAND SEED MIX (i.e. NEWP, INC., AMHERST, MA) ABOVE ELEVATION 15.0 FEET, AND NEW ENGLAND ROADSIDE MATRIX WET MEADOW SEED MIX BELOW ELEVATION 15.0 FEET.
3. PAVEMENT BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES HAVE BEEN INSTALLED.
4. CONSTRUCT PAVEMENT, PLACE TOPSOIL, FINAL SEED, AND MULCH. INSPECT THE DRAINAGE SYSTEM AND CLEAN AS NEEDED.
5. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE ENGINEER AND OWNER'S REPRESENTATIVE.

OPERATION AND MAINTENANCE OF TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES

SILT FENCE

- A. ALL SILT FENCES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED.
- B. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY EXCEED A HEIGHT OF ONE FOOT OR 1/2 THE HEIGHT OF THE BARRIER.

SEDIMENT CONTROL AT CATCH BASINS

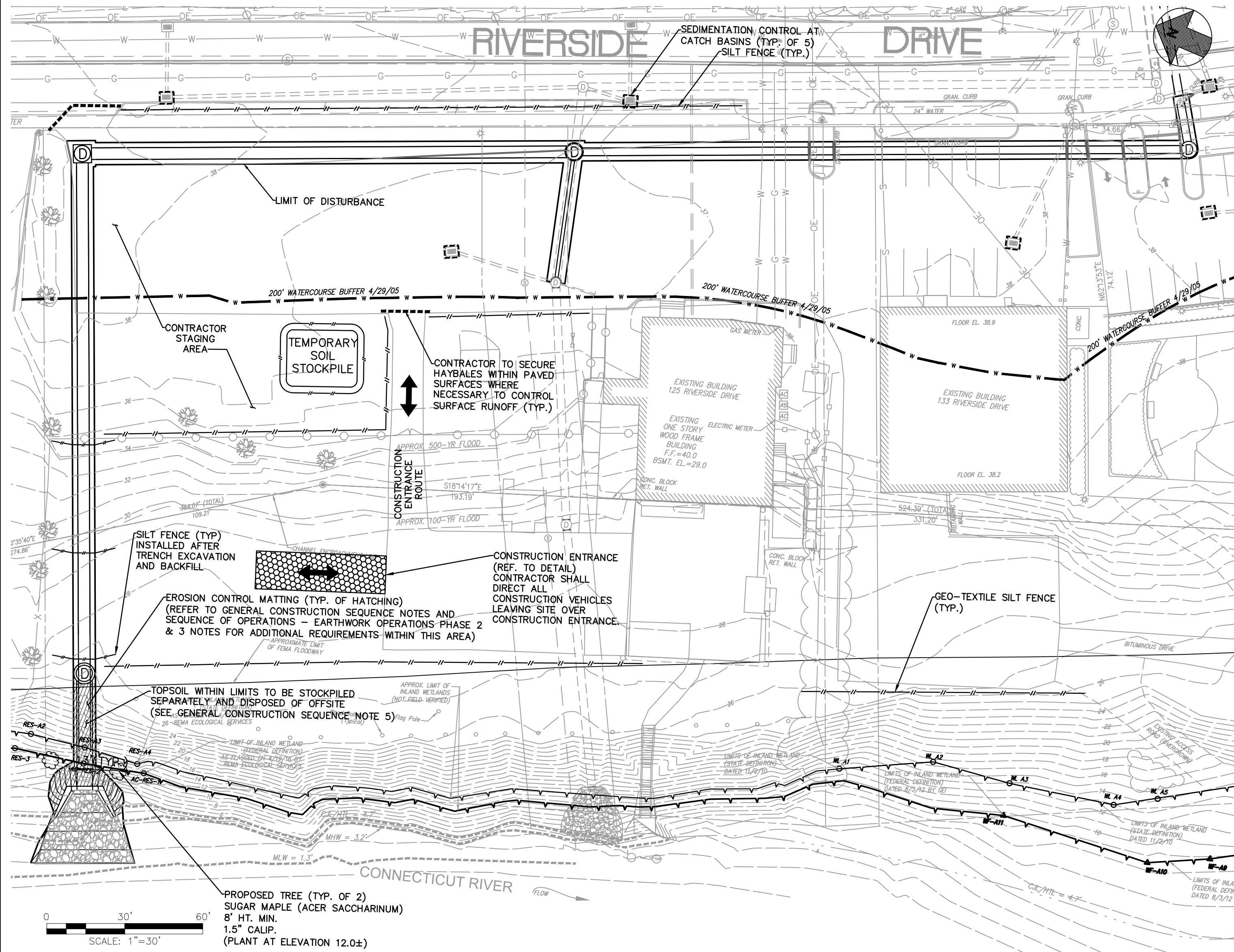
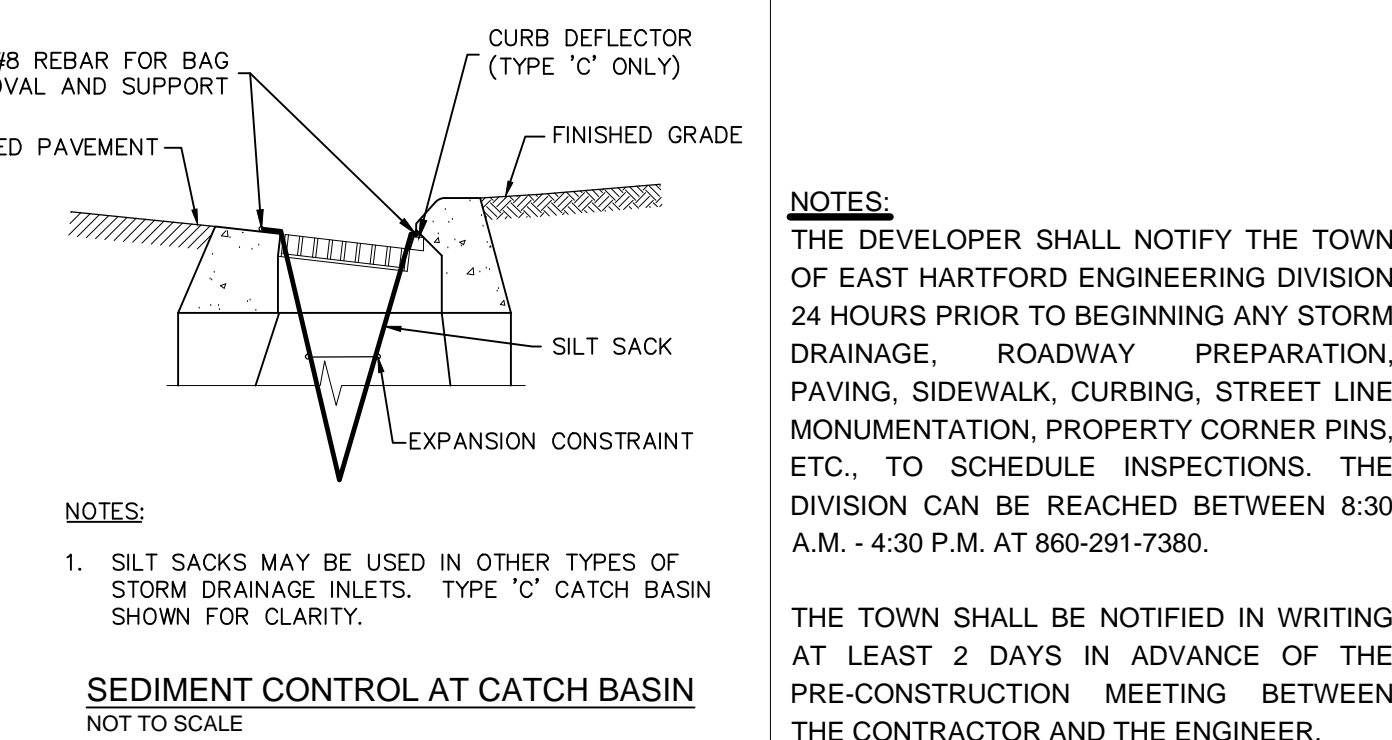
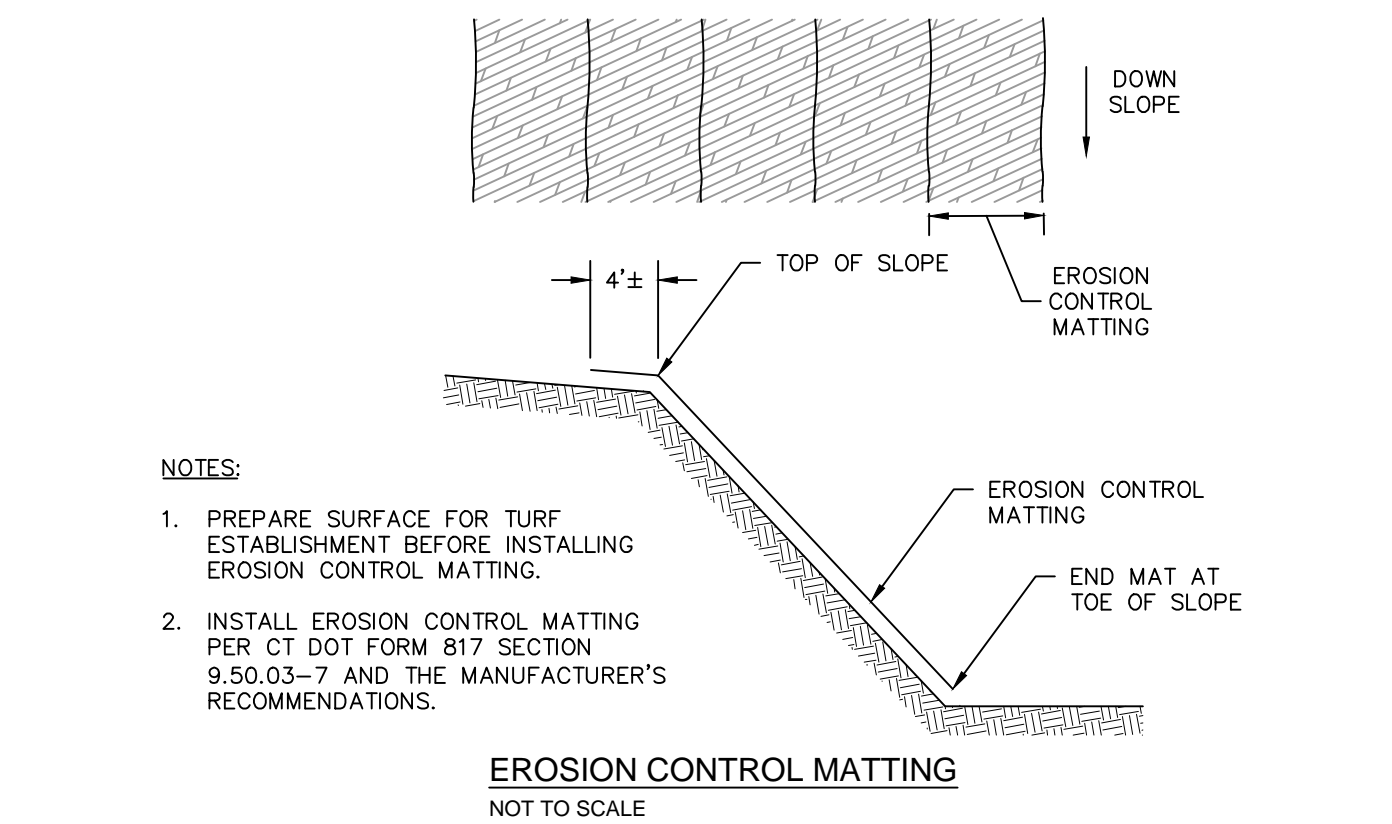
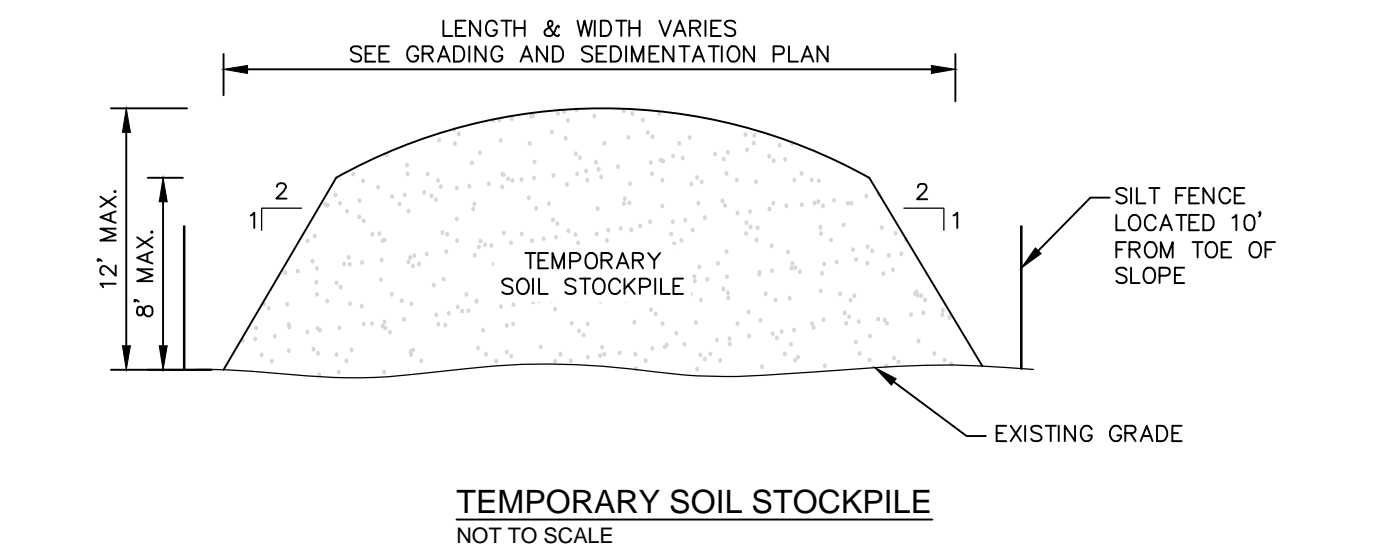
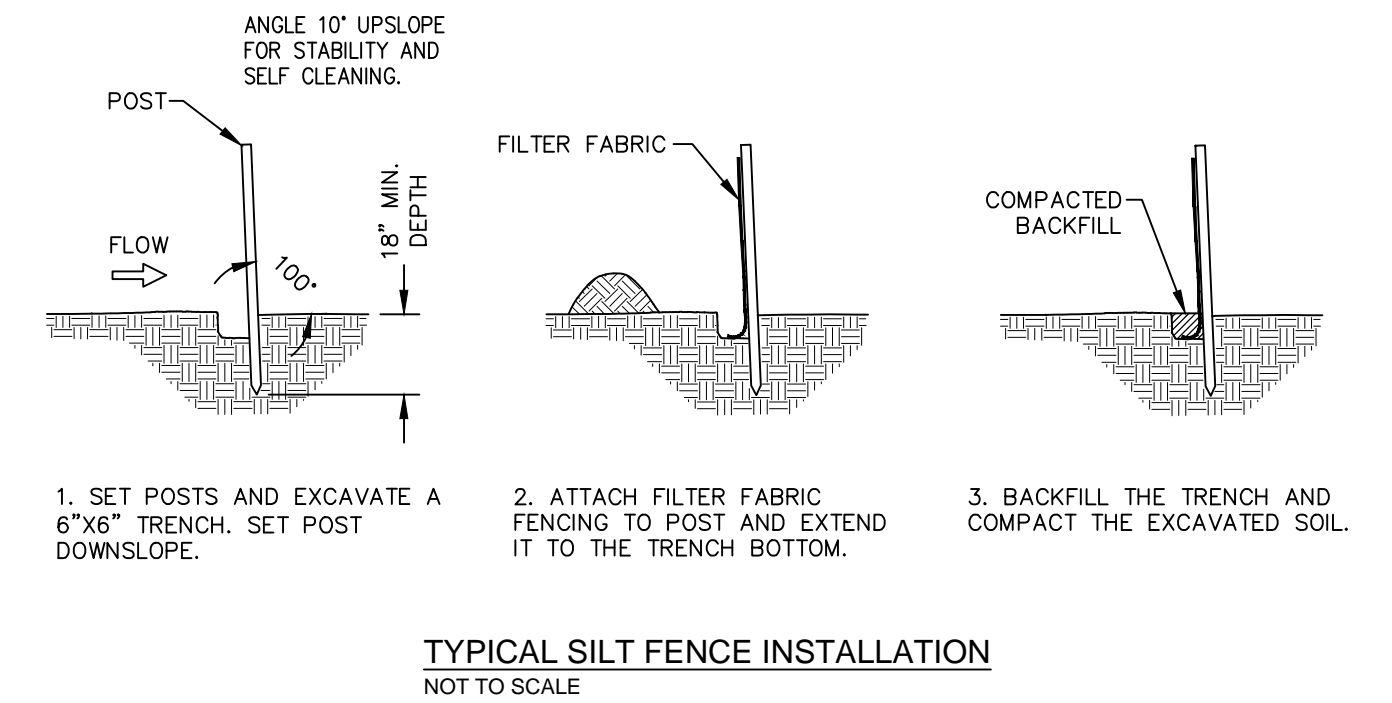
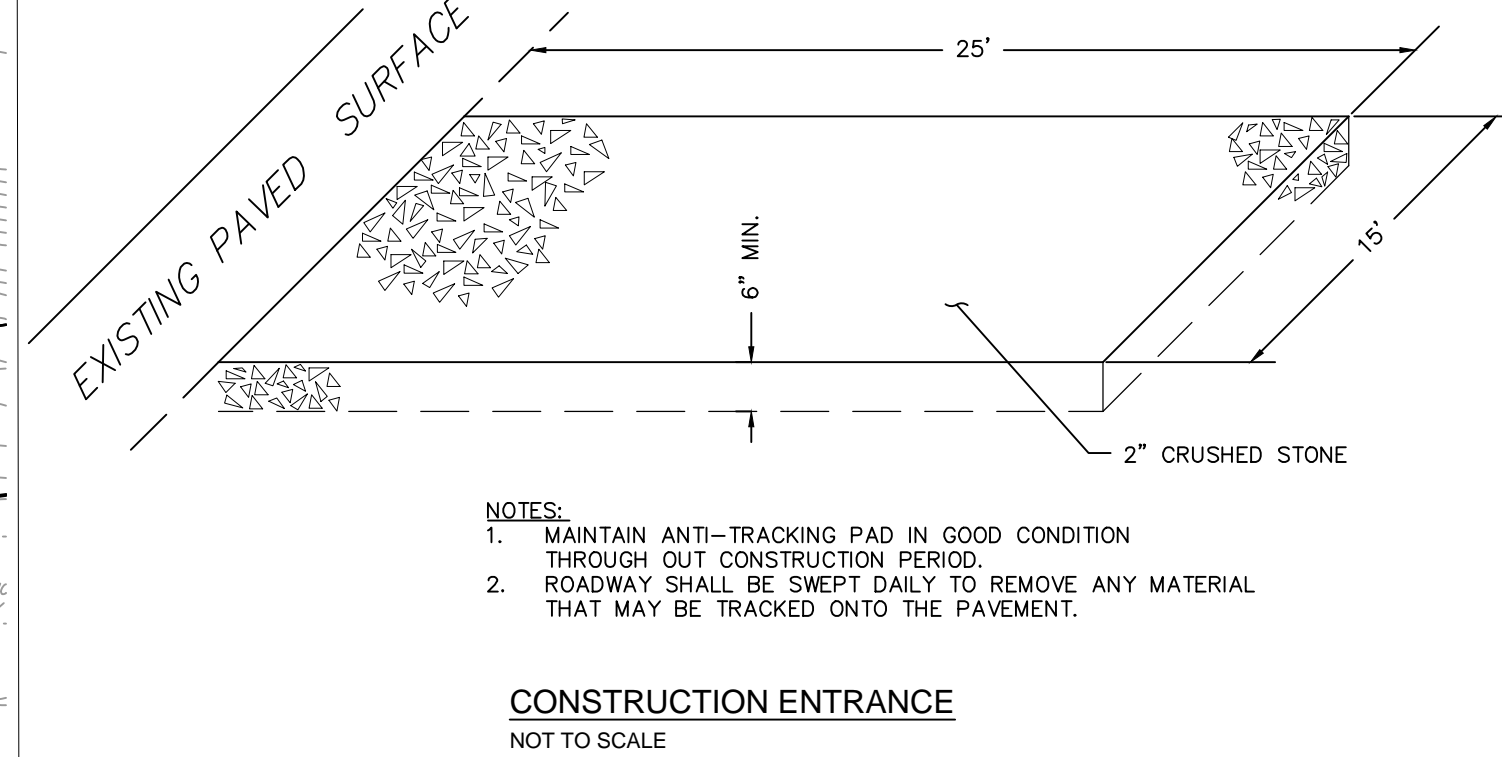
- A. INSPECT SILT SACKS WEEKLY AND AFTER EACH RAINFALL.
- B. SILT SACKS SHALL BE EMPTIED WHEN THEY HAVE COLLECTED 6" TO 12" OF SEDIMENT.

GENERAL

- A. CONTRACTOR TO KEEP WEEKLY CHECKLIST LOGS FOR INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROL DEVICES AND HAVE THEM READILY AVAILABLE ON-SITE AT ALL TIMES FOR INSPECTION BY THE ENGINEER, OWNER'S REPRESENTATIVE OR CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION (CT DEEP).

CONTINGENCY EROSION PLAN

SHOULD UNFORESEEN EROSION OR SEDIMENTATION PROBLEMS ARISE, THE DESIGN ENGINEER OF RECORD (ZUVIC, CARR AND ASSOCIATES) SHALL BE NOTIFIED IMMEDIATELY. AN INSPECTION OF THE AFFECTED AREA(S) SHALL BE PROMPTLY PERFORMED. A REMEDIAL ACTION PLAN SHALL BE FORMULATED. THE SITE CONTRACTOR SHALL THEN IMPLEMENT THE RECOMMENDED COURSE OF ACTION WHICH HAS BEEN DETERMINED BY THE ENGINEER.



PROJECT NO.:	1885
DESIGNED BY:	GBS
DRAWN BY:	SJH
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	JFS
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PREPARED FOR:
GOODWIN COLLEGE
ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

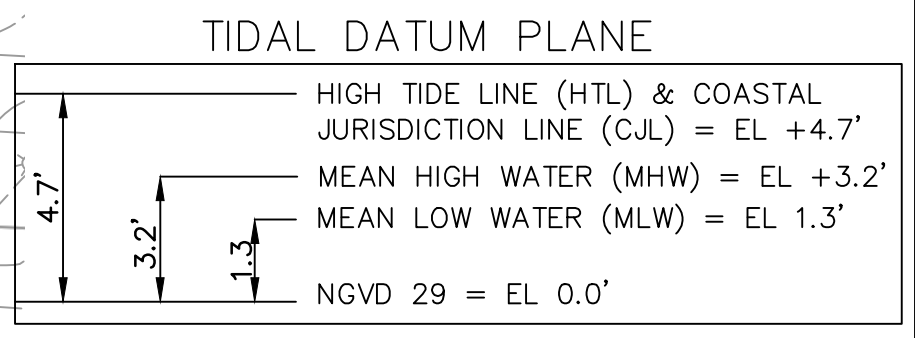
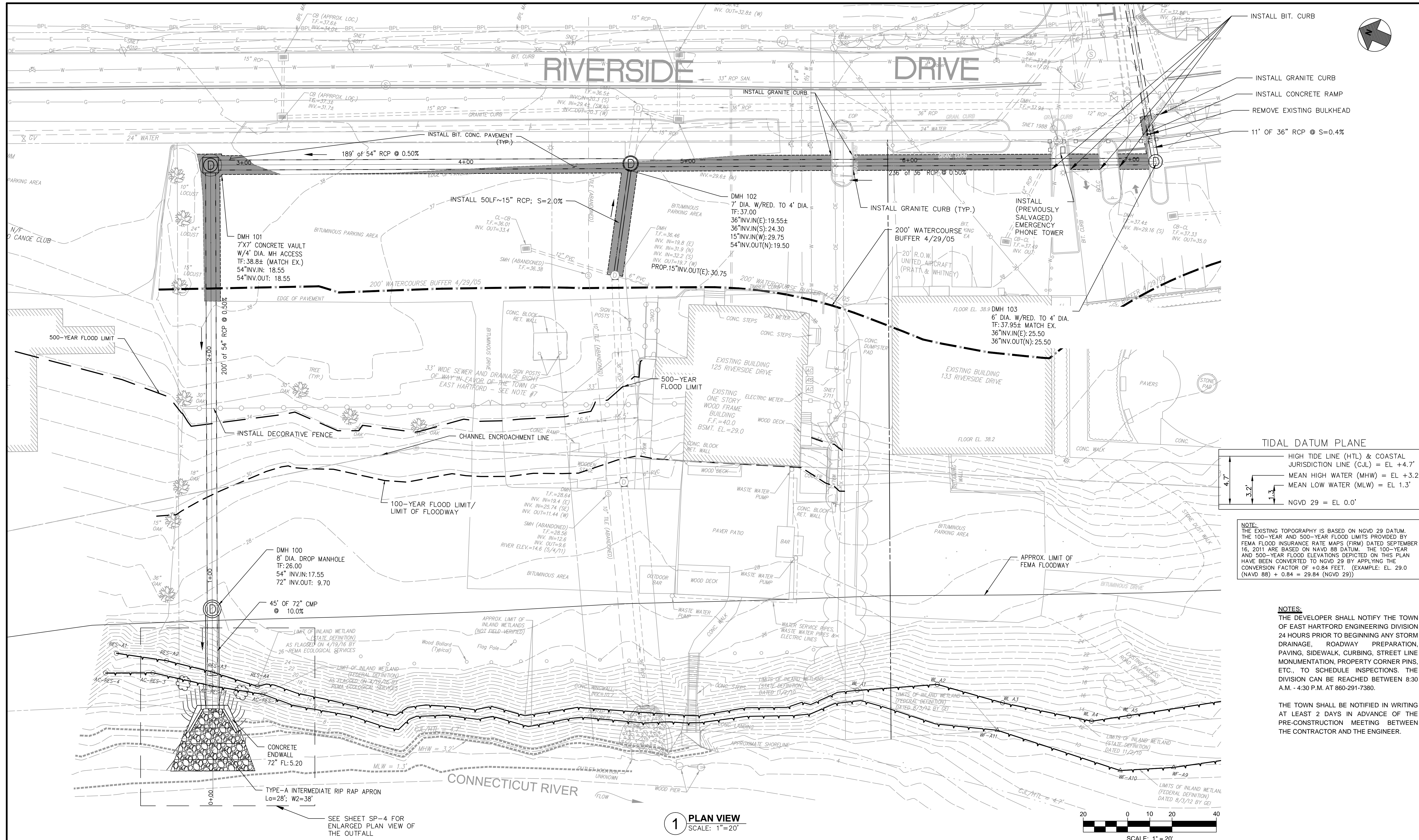
PREPARED BY:
ZUVIC · CARR AND ASSOCIATES
CONSULTING ENGINEERS
40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

RIVERSIDE DRIVE OUTFALL
125 RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

EROSION & SEDIMENTATION CONTROL PLAN

SHEET NO.
ES-1

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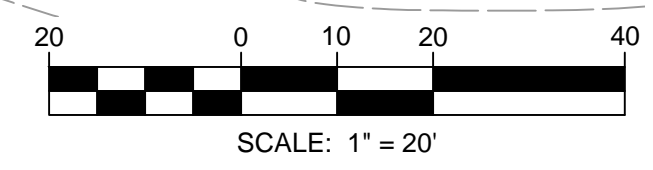


NOTE:
 THE EXISTING TOPOGRAPHY IS BASED ON NGVD 29 DATUM. THE 100-YEAR AND 500-YEAR FLOOD LIMITS PROVIDED BY FEMA FLOOD INSURANCE RATE MAPS (FIRM) DATED SEPTEMBER 16, 2011 ARE BASED ON NAVD 88 DATUM. THE 100-YEAR AND 500-YEAR FLOOD ELEVATIONS DEPICTED ON THIS PLAN HAVE BEEN CONVERTED TO NGVD 29 BY APPLYING THE CONVERSION FACTOR OF +0.84 FEET. (EXAMPLE: EL. 29.0 (NAVD 88) + 0.84 = 29.84 (NGVD 29))

NOTES:
 THE DEVELOPER SHALL NOTIFY THE TOWN OF EAST HARTFORD ENGINEERING DIVISION 24 HOURS PRIOR TO BEGINNING ANY STORM DRAINAGE, ROADWAY PREPARATION, PAVING, SIDEWALK, CURBING, STREET LINE MONUMENTATION, PROPERTY CORNER PINS, ETC., TO SCHEDULE INSPECTIONS. THE DIVISION CAN BE REACHED BETWEEN 8:30 A.M. - 4:30 P.M. AT 860-291-7380.

THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

1 PLAN VIEW
 SCALE: 1"=20'



PROJECT NO.:	1885
DESIGNED BY:	GBS
DRAWN BY:	SJH
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	JFS
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	ADDRESS TOWN STAFF COMMENTS	REMARKS
6-7-17	KMI	GBS			

SEE SHEET SP-4 FOR ENLARGED PLAN VIEW OF THE OUTFALL

PREPARED FOR:

GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:

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 40 Cold Spring Road • Rocky Hill, CT 06067
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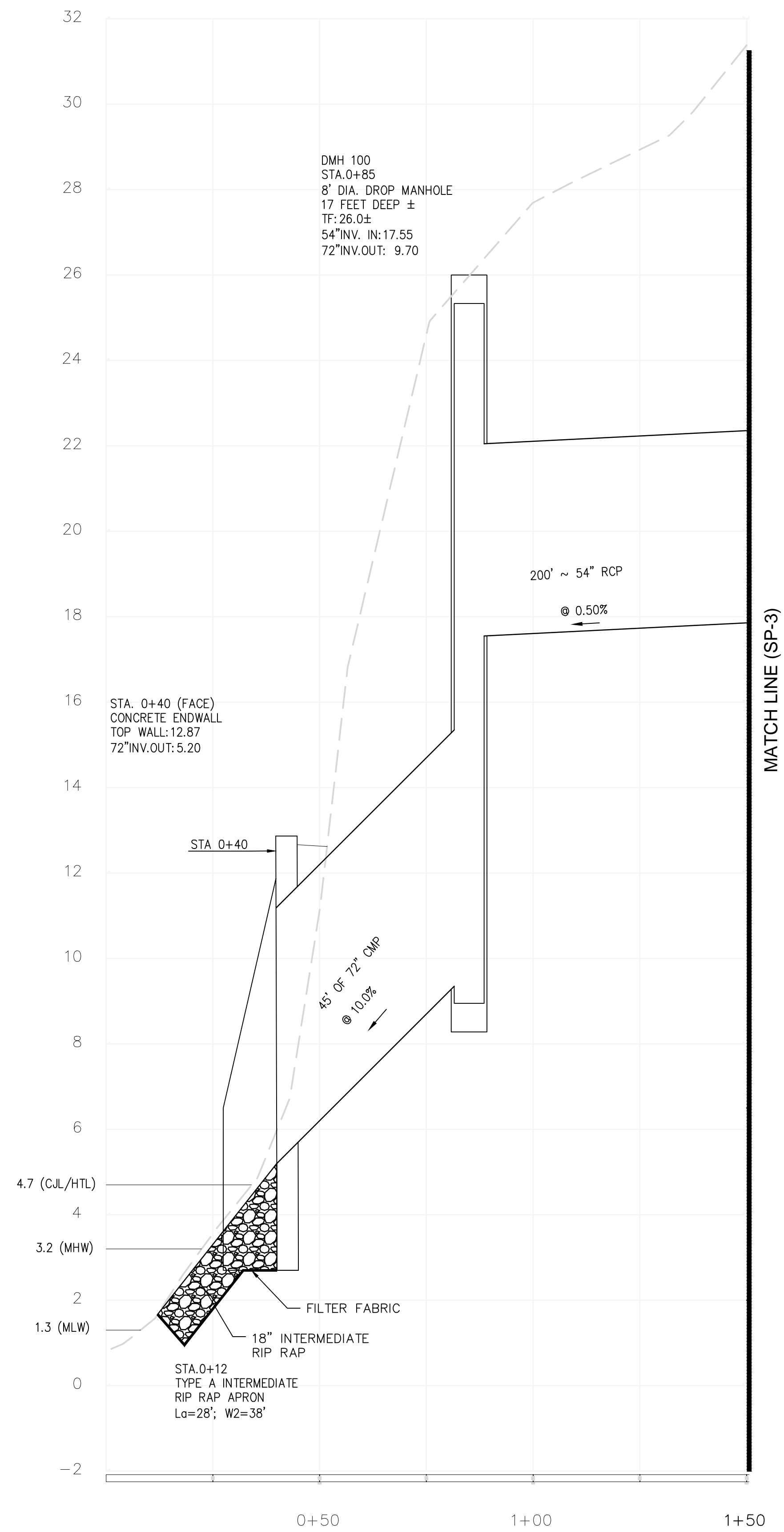
RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

SITE LAYOUT PLAN

SHEET NO.
SP-1

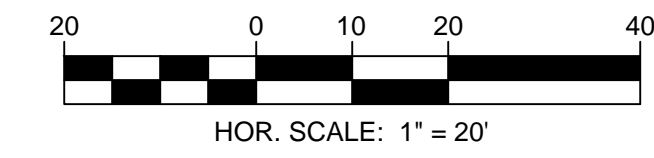
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NOTES:
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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PROJECT NO.: 1885
 DESIGNED BY: GBS
 DRAWN BY: SJH
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: JFS
 APPROVED BY:
 DATE: MAY 8, 2017

PREPARED FOR:



GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:



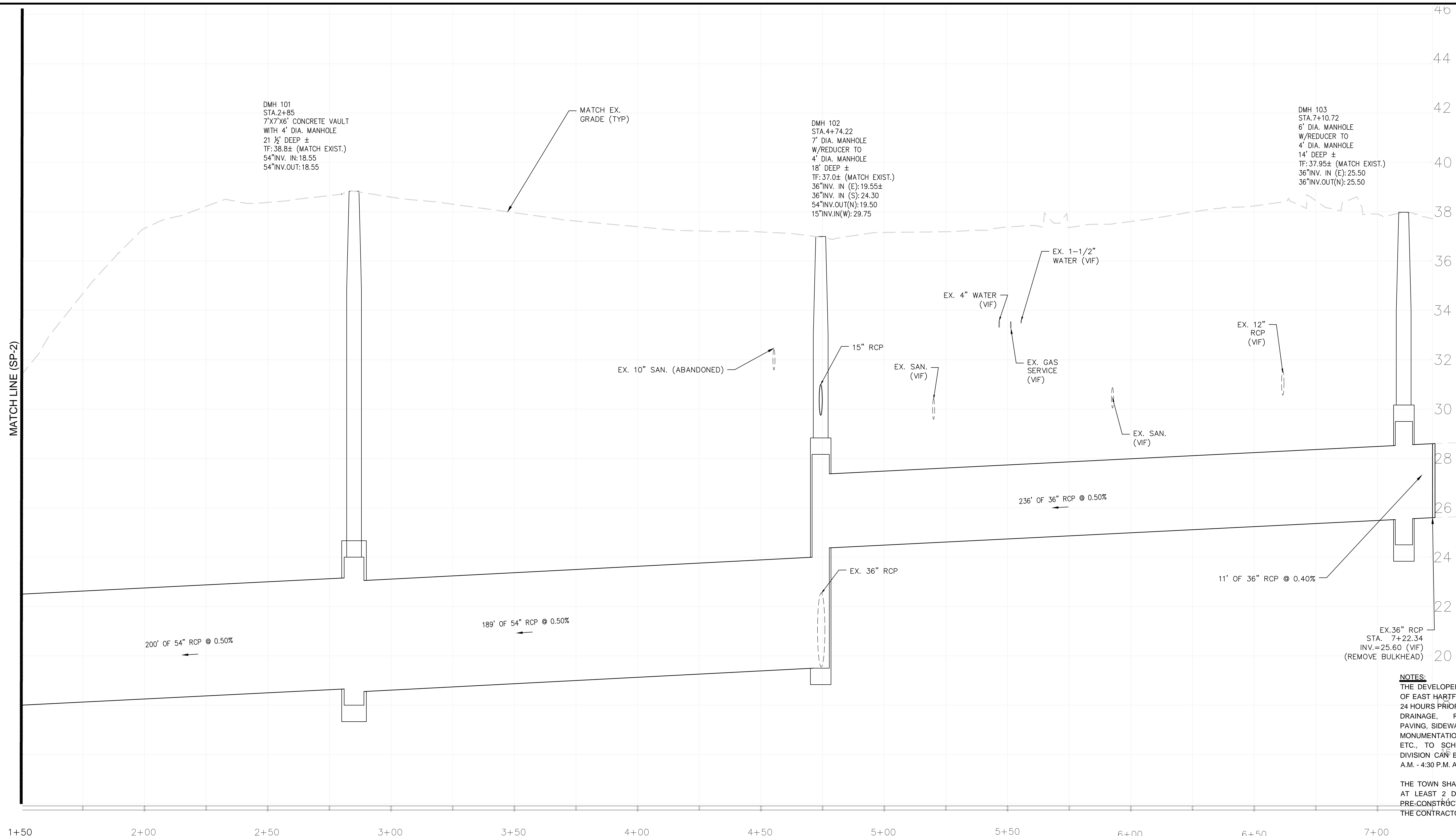
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RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PROFILE
 (STA. 0+00 - 1+50)

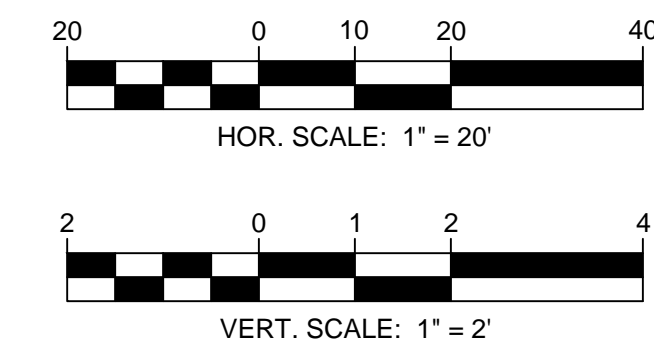
SHEET NO.
SP-2

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NOTES:
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THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.



REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PROJECT NO.: 1885
 DESIGNED BY: GBS
 DRAWN BY: SJH
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: JFS
 APPROVED BY:
 DATE: MAY 8, 2017

PREPARED FOR:

GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

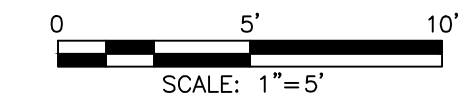
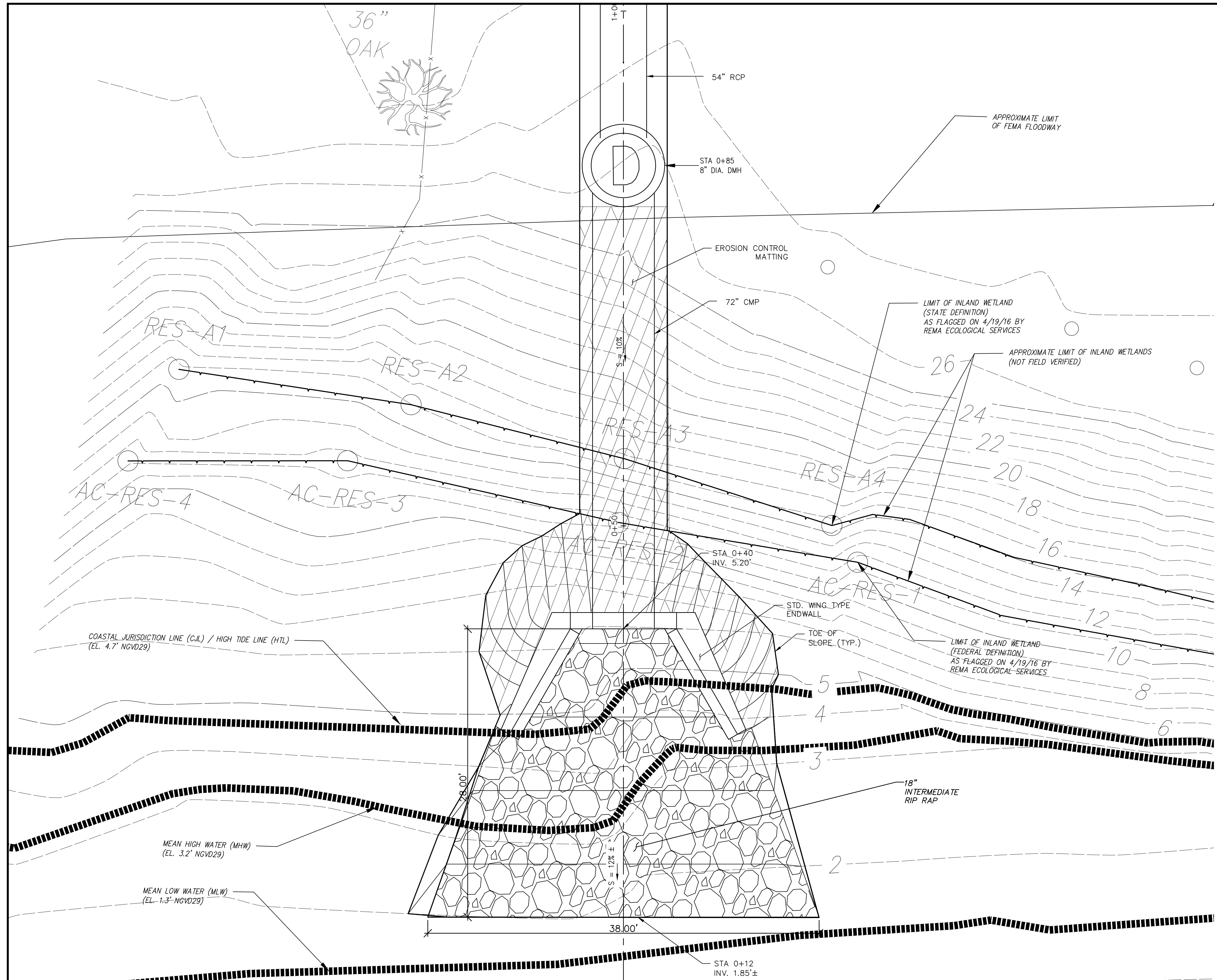
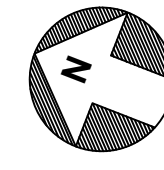
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RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PROFILE
 (STA. 1+50 - 7+22)

SHEET NO.
SP-3



NOTES:
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FILE PATH: H:\Projects\Goodwin College\1885 - Riverside Drive Outfall\AutoCAD\1885 - Outfall Plan.dwg PLOT DATE: 4/4/2019 PLOT TIME: 4:05:36 PM

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PROJECT NO.: 1885
 DESIGNED BY: GBS
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: JFS
 APPROVED BY:
 DATE: MAY 8, 2017

PREPARED FOR:



GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:

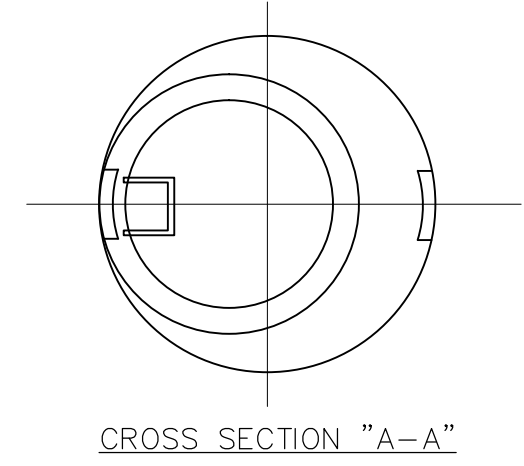


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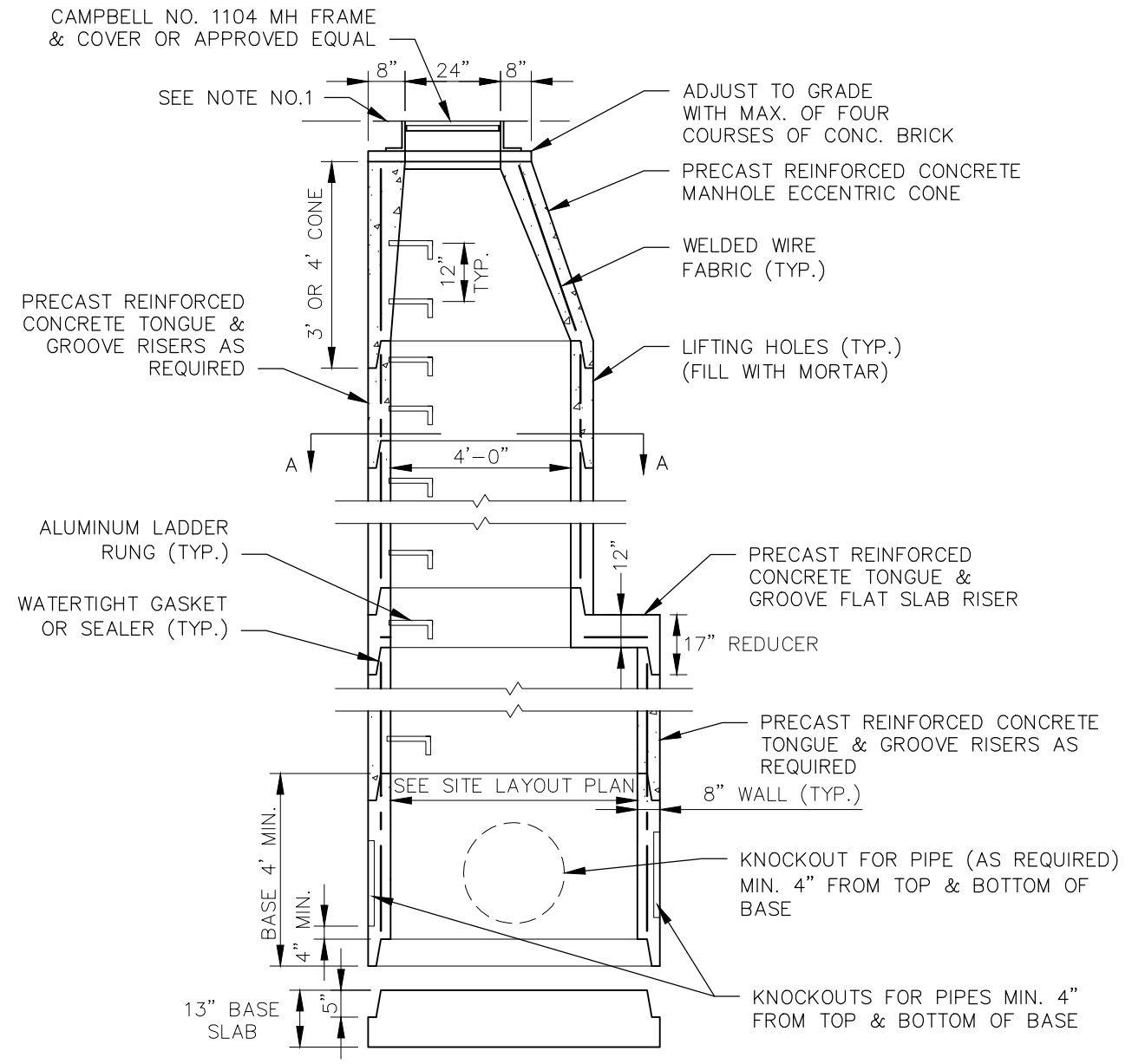
RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

OUTFALL PLAN

SHEET NO.
SP-4

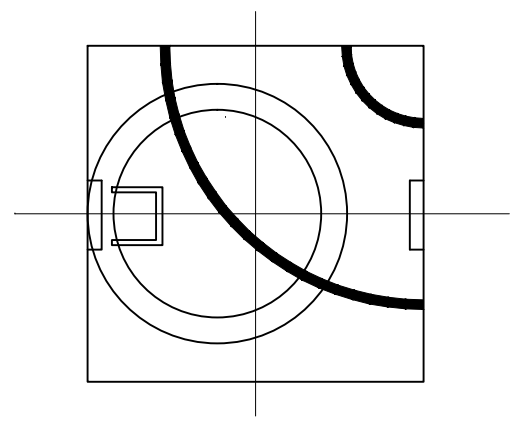


NOTES:
1. ALL MANHOLE FRAME COVERS TO BE SET FLUSH WITH BINDER COURSE. A MANHOLE RISER RING SHALL BE USED TO BRING MANHOLE COVER TO FINISHED GRADE PRIOR TO THE COMPLETION OF THE FINAL SURFACE COURSE.

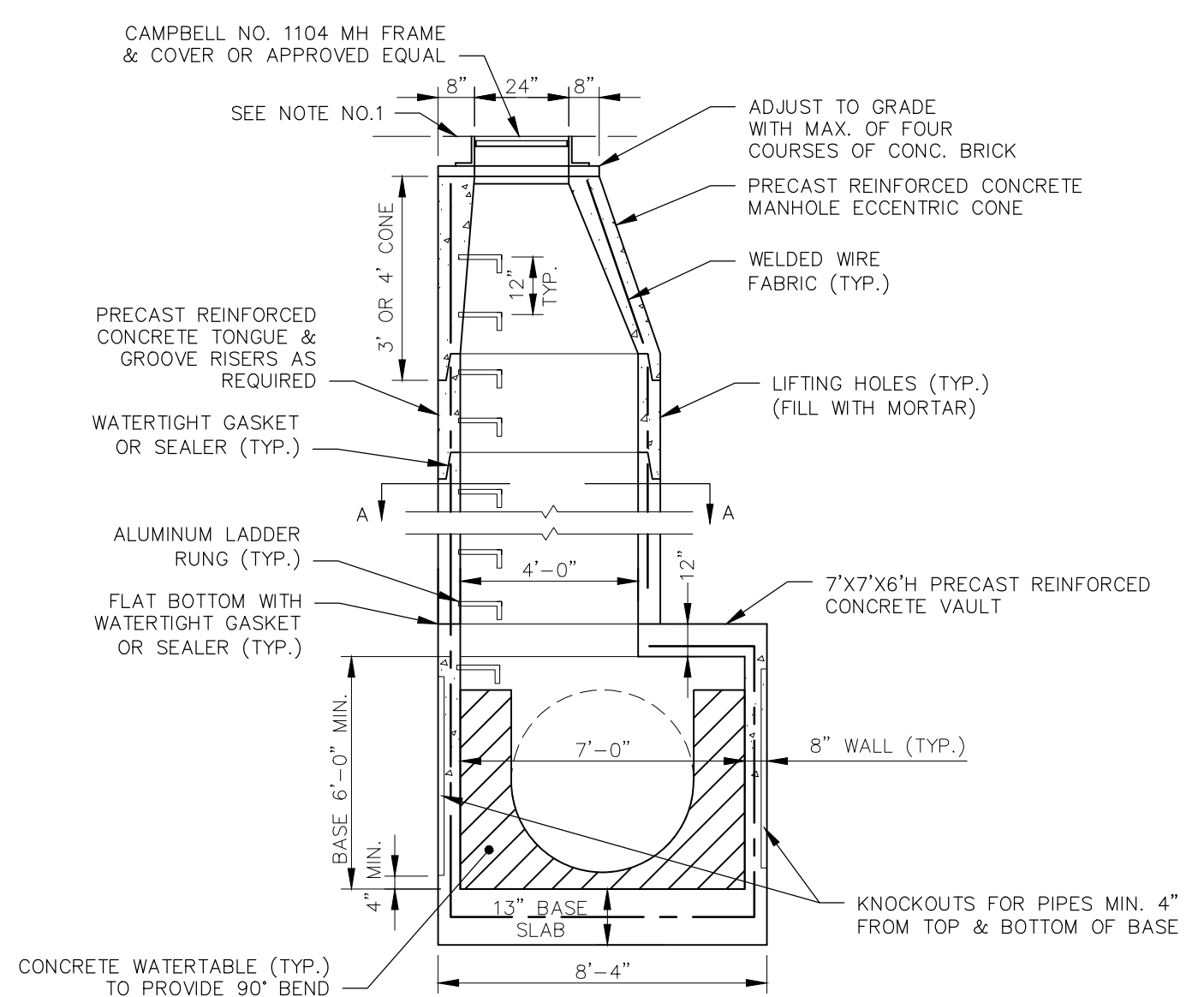


PROFILE VIEW
PRECAST CONCRETE MANHOLE
NOT TO SCALE

NOTE:
DMH 100 = 8' DIA.
DMH 102 = 7' DIA.
DMH 103 = 6' DIA.

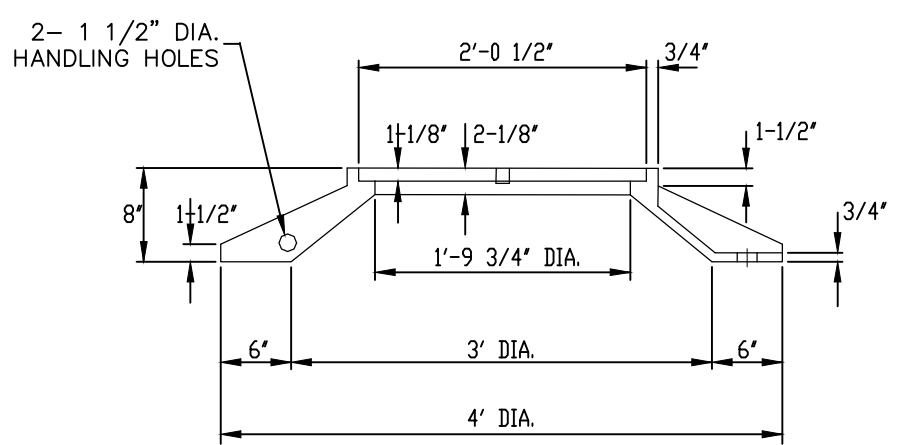
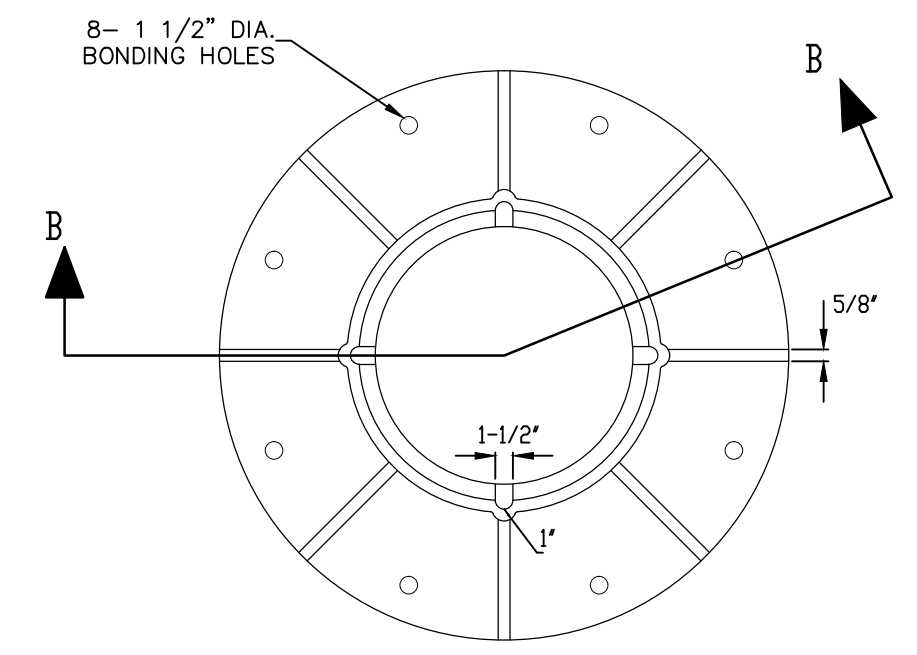


NOTES:
1. ALL MANHOLE FRAME COVERS TO BE SET FLUSH WITH BINDER COURSE. A MANHOLE RISER RING SHALL BE USED TO BRING MANHOLE COVER TO FINISHED GRADE PRIOR TO THE COMPLETION OF THE FINAL SURFACE COURSE.

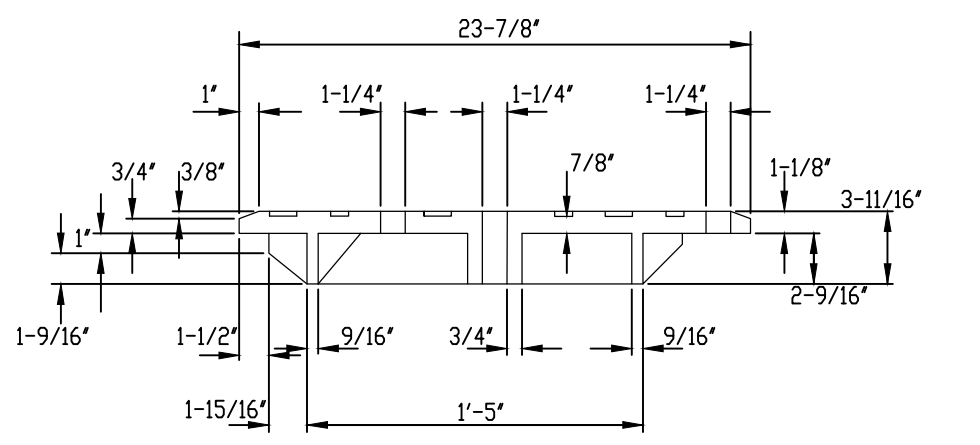
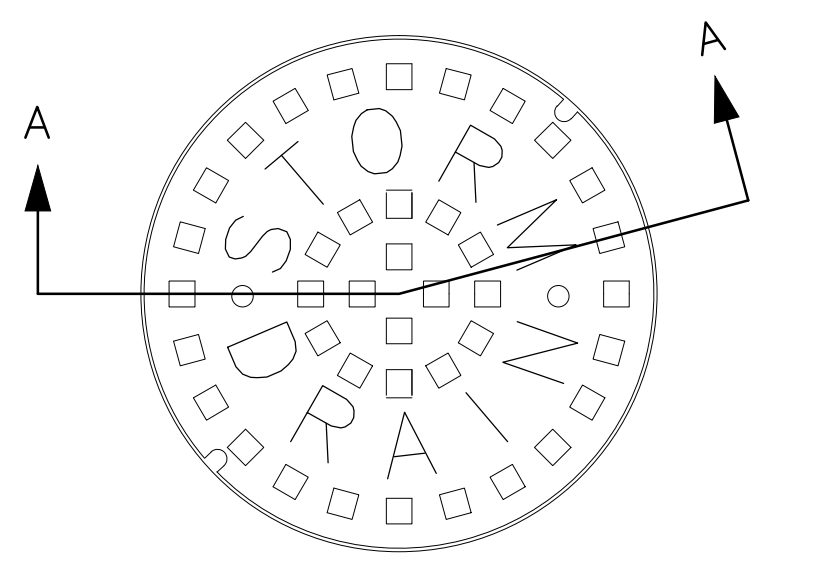


PROFILE VIEW
PRECAST CONCRETE MANHOLE WITH 7'X7'X6' VAULT
NOT TO SCALE

NOTE:
DETAIL APPLIES TO DMH 102



SECTION B-B
CAST IRON FRAME

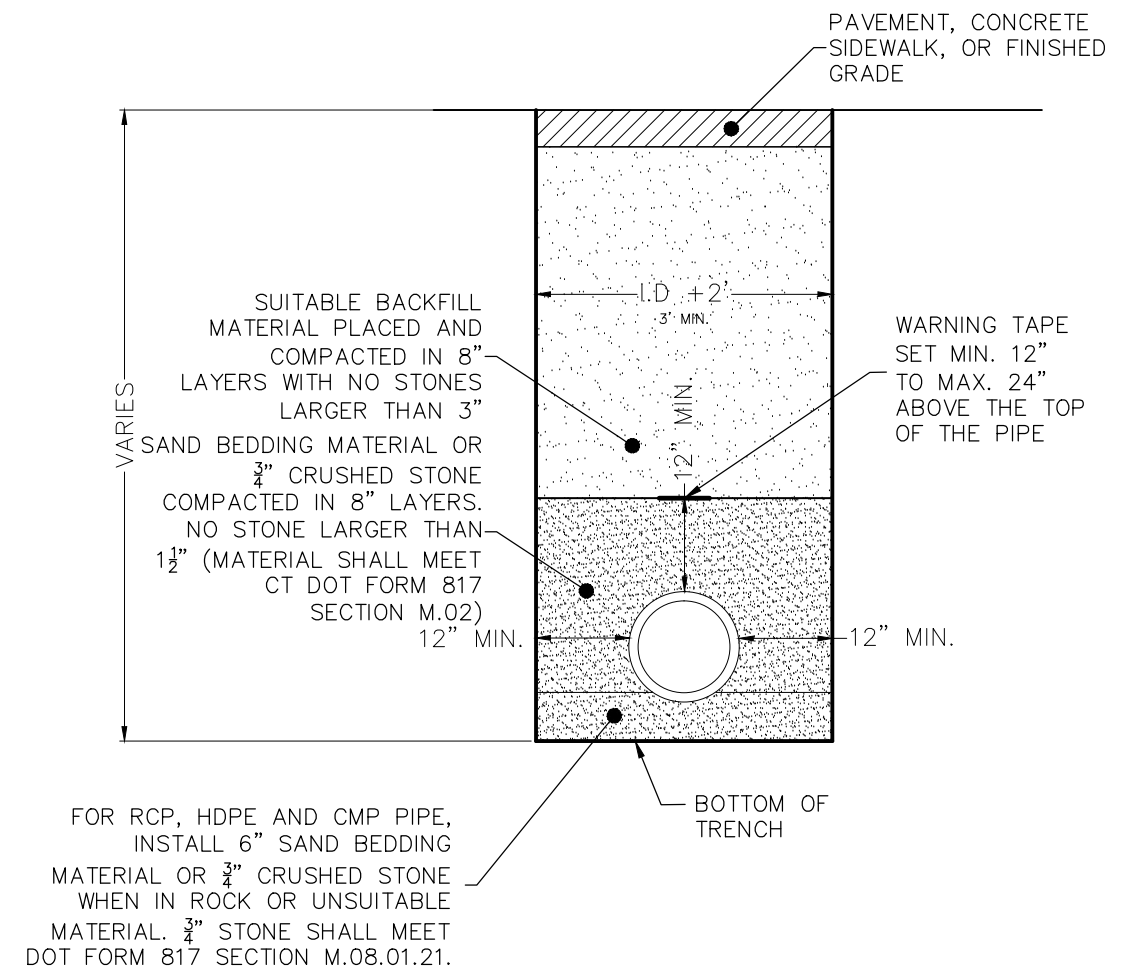


SECTION A-A
CAST IRON COVER

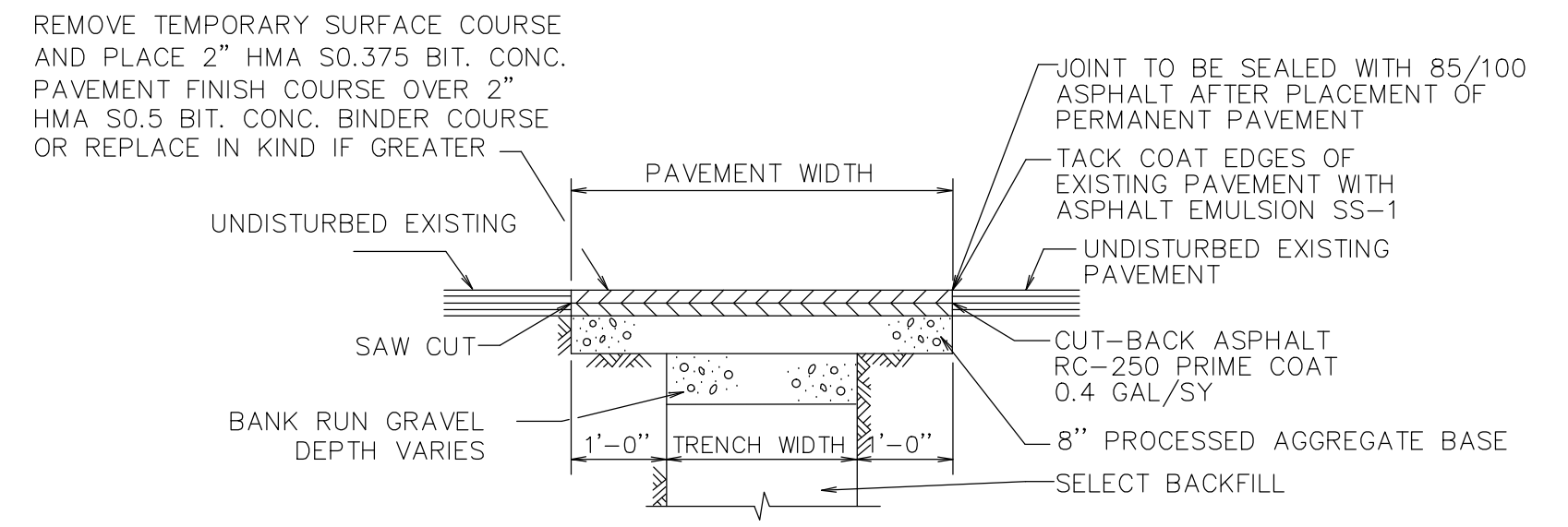
NOTES:

1. THE LOWER SURFACE OF THE COVER AND THE CORRESPONDING UPPER SURFACE OF THE FRAME SHALL BE MACHINE FINISHED TO PROVIDE A SMOOTH FLAT CONTACT FOR FIT, WITHOUT ANY TENDENCY FOR THE COVER TO ROCK OR RATTLE.

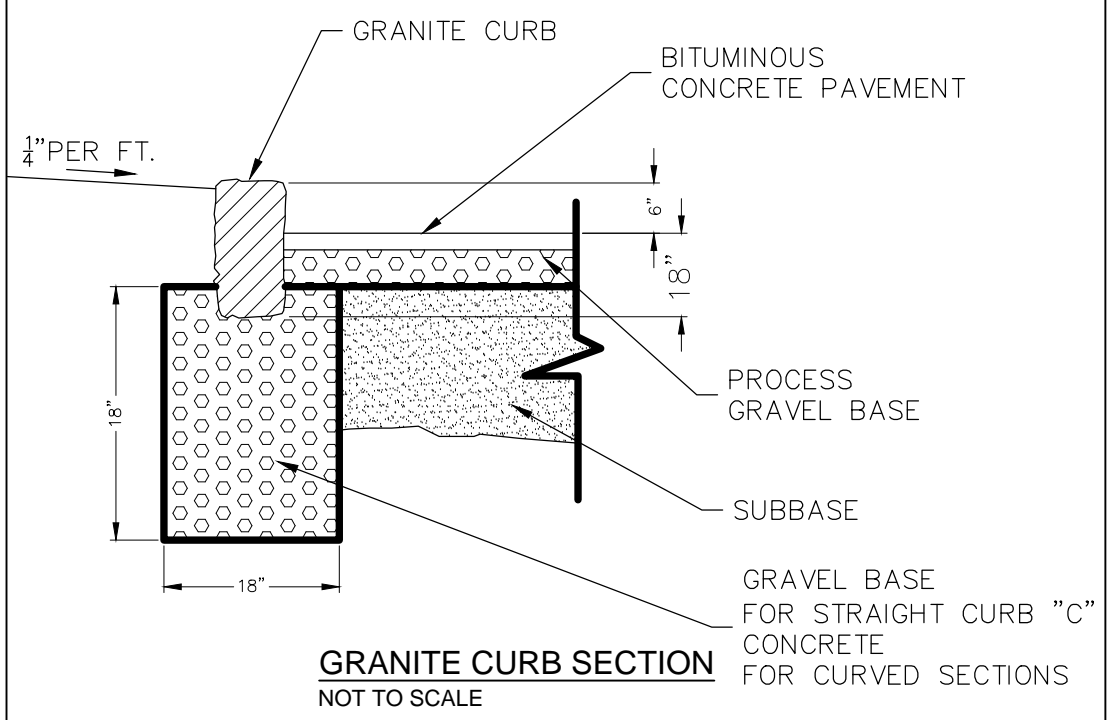
CAST IRON MANHOLE COVER
NOT TO SCALE



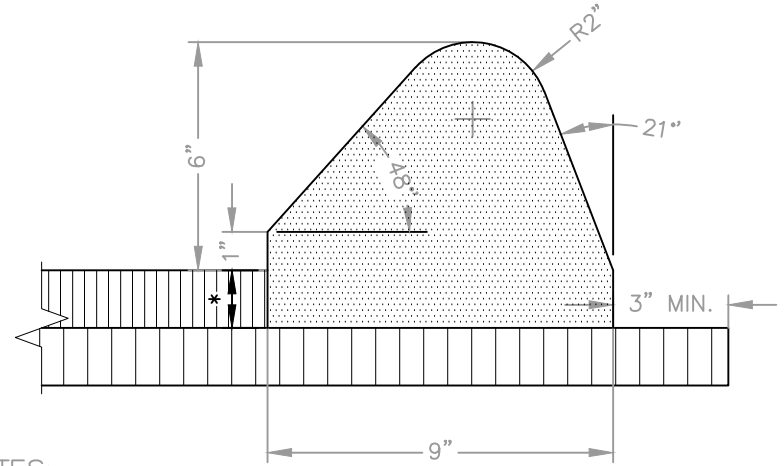
TYPICAL STORM TRENCH DETAIL
NOT TO SCALE



PERMANENT PAVEMENT REPAIR
NOT TO SCALE



GRANITE CURB SECTION
NOT TO SCALE



NOTES:
1. * MATCH THICKNESS OF PAVEMENT SURFACE COURSE (VIF).
2. WHERE NEW CURB MEETS EXISTING CURB, TRANSITION TO MATCH PROFILE OF EXISTING CURB.
BITUMINOUS CONCRETE LIP CURBING
NOT TO SCALE

NOTES:
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THE TOWN SHALL BE NOTIFIED IN WRITING AT LEAST 2 DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING BETWEEN THE CONTRACTOR AND THE ENGINEER.

FILE PATH: H:\Projects\Goodwin College\1885 - Riverside Drive Outfall\AutoCAD\CD\1885 Details.dwg PLOT DATE: 4/12/2019 PLOT TIME: 4:06:00 PM

PROJECT NO.:	1885
DESIGNED BY:	KMI
DRAWN BY:	KMI
SHEET CHK'D BY:	GBS
CROSS CHK'D BY:	JFS
APPROVED BY:	
DATE:	MAY 8, 2017

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	6-7-17	KMI	GBS	ADDRESS TOWN STAFF COMMENTS

PROJECT NO.: 1885
DESIGNED BY: KMI
DRAWN BY: KMI
SHEET CHK'D BY: GBS
CROSS CHK'D BY: JFS
APPROVED BY:
DATE: MAY 8, 2017

PREPARED FOR:

ONE RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

PREPARED BY:

40 Cold Spring Road • Rocky Hill, CT 06067
Phone 860.436.4901 • Fax 860.436.4953

RIVERSIDE DRIVE OUTFALL
125 RIVERSIDE DRIVE
EAST HARTFORD, CONNECTICUT

DETAILS

SHEET NO.
CD-1

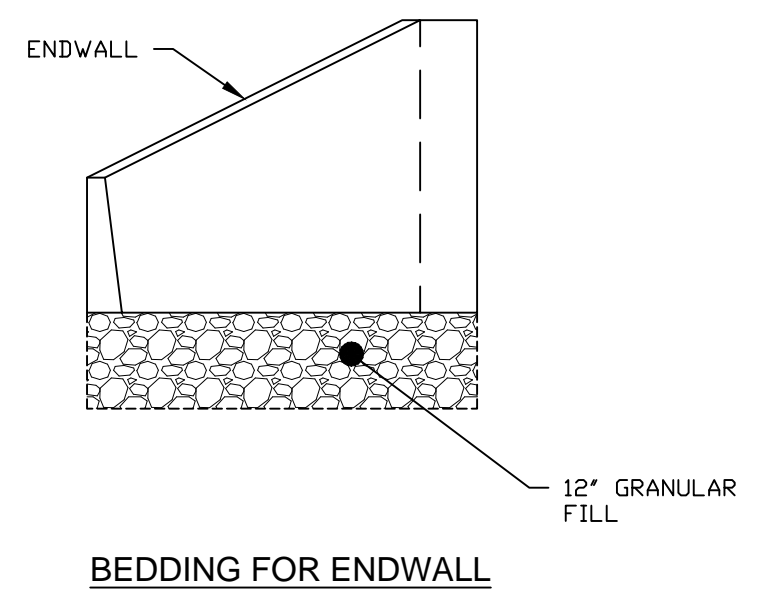
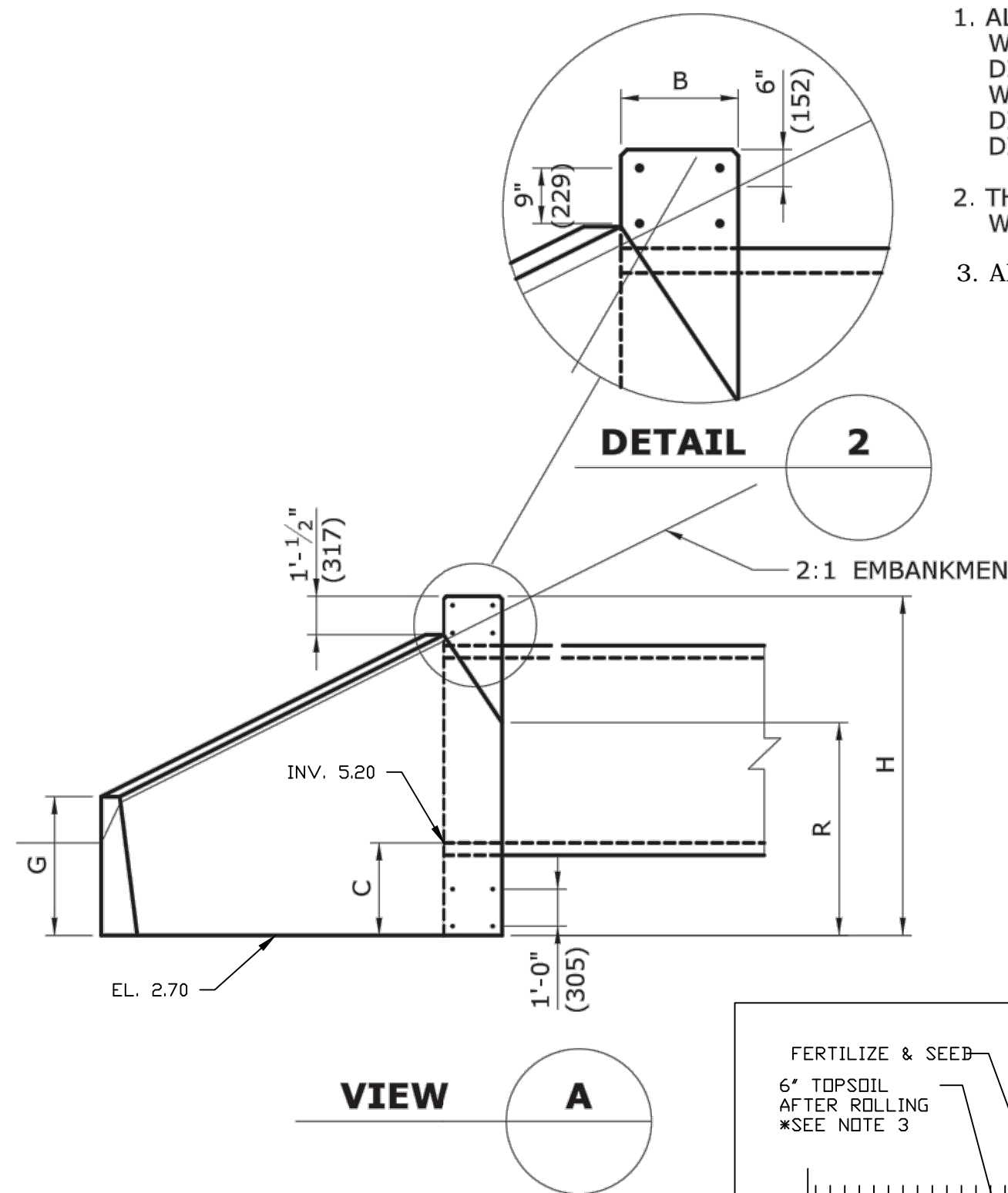
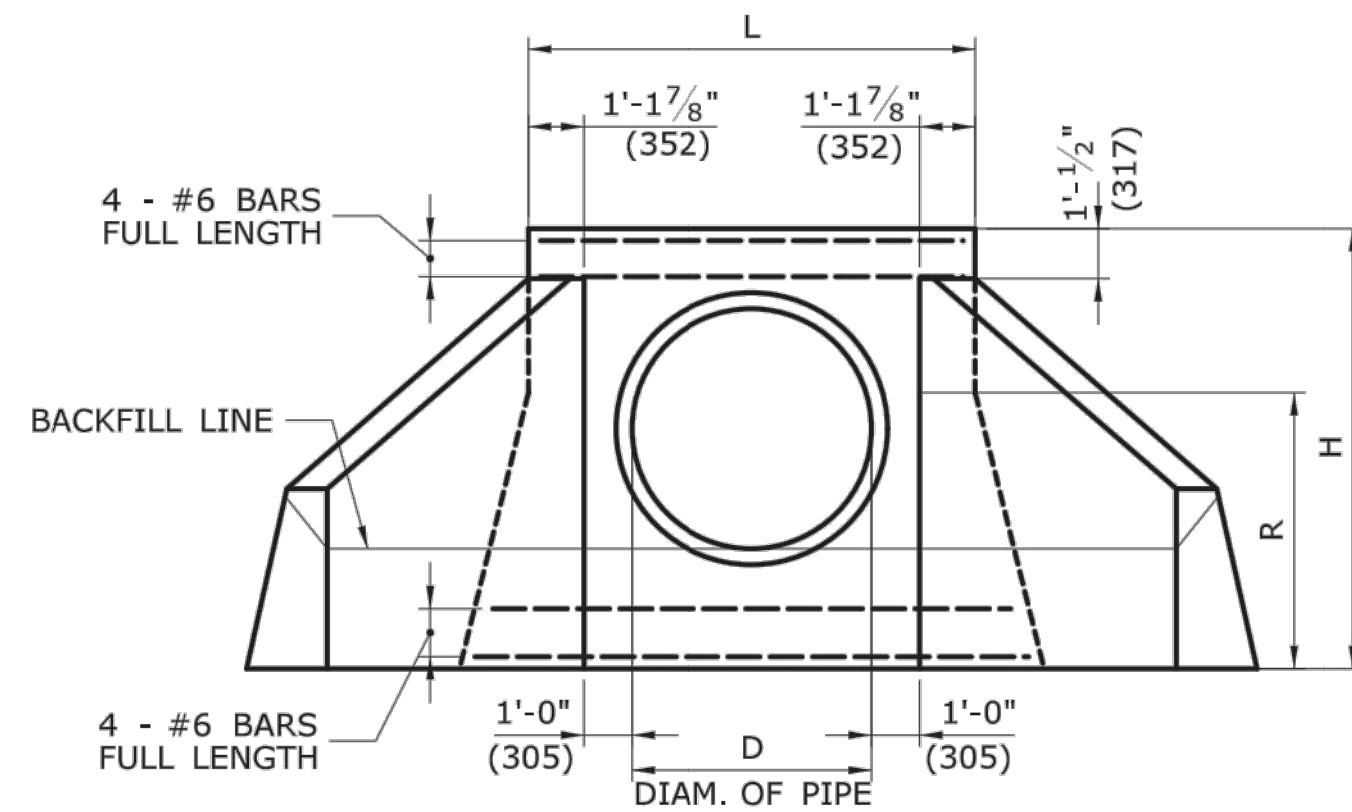
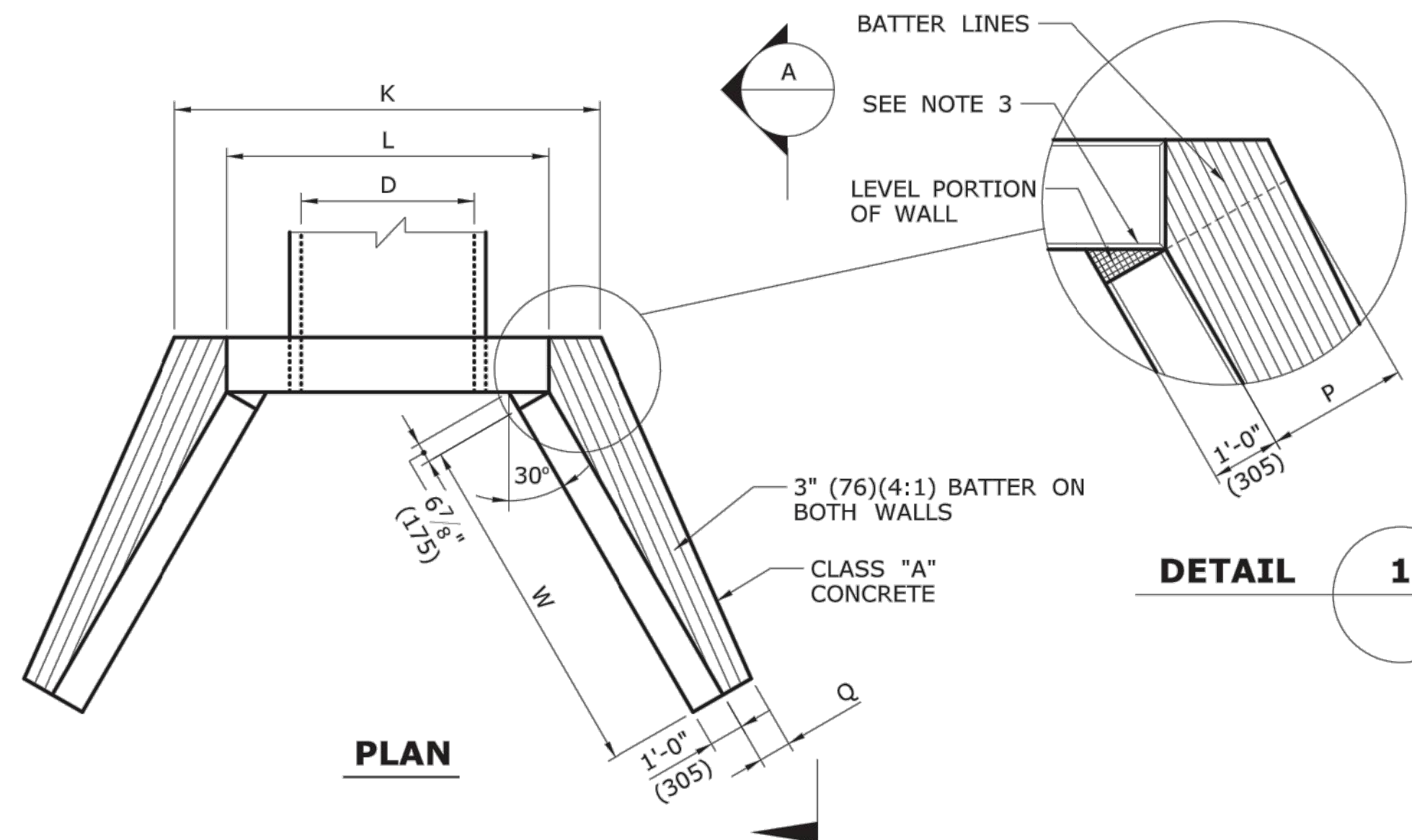
DIMENSIONS AND QUANTITIES FOR ONE WING TYPE ENDWALL

	H	B	C	G	H	K	L	P	Q	R	W	VOL.
	INS.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	FT.&IN.	CU.YDS
	72"	1'-7"	2'-6"	3'-9"	10'-2"	13'-10 3/4"	10'-3 3/4"	2'-3 3/8"	0'-11 1/4"	6'-9"	12'-5"	16.3

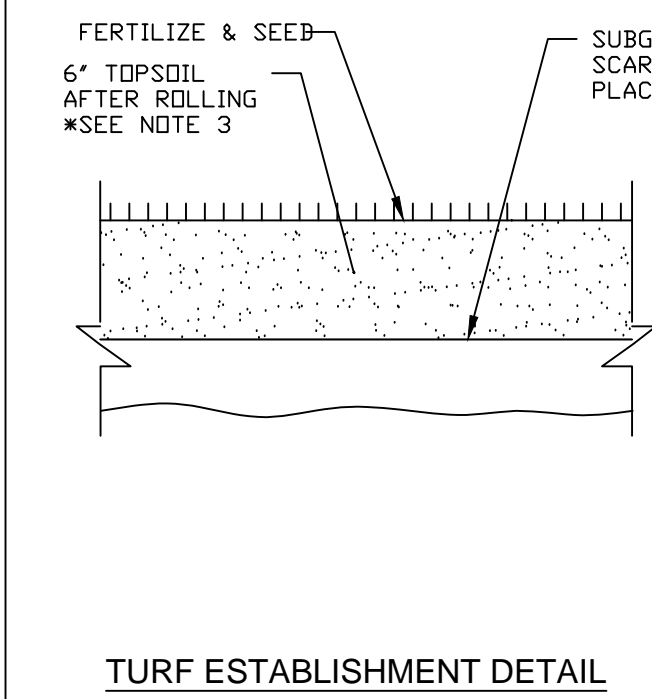
H = TOTAL HEIGHT OF ENDWALL
 B = BASE
 D = INSIDE DIAMETER OF PIPE
 S = HEIGHT OF SLOPE ABOVE FLOW LINE AT FACE OF WALL = D+2"(51) MIN.
 L = LENGTH OF WALL = 3S+D
 ALL EDGES OF EXPOSED SURFACES SHALL BE CHAMFERED APPROXIMATELY ONE INCH (25mm).

GENERAL NOTES:

- ALL CONSTRUCTION DIMENSIONS ARE NOMINAL. WHEN ONE ENDWALL IS USED FOR TWO PIPES, THE DIMENSIONS OF THE ENDWALL SHALL CONFORM TO THAT WHICH IS REQUIRED FOR THE LARGER PIPE, EXCEPT THE DIMENSION "L" SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS ONE FOOT.
- THESE ENDWALLS SHALL ONLY BE USED AT LOCATIONS WHERE THEY ARE OUTSIDE THE DESIGN CLEAR ZONE.
- ALL REINFORCING BARS SHALL HAVE 3" COVER MIN.



STANDARD WING TYPE ENDWALL
 REINFORCEMENT SHALL BE USED FOR 48" (1219) DIA. PIPE AND UP

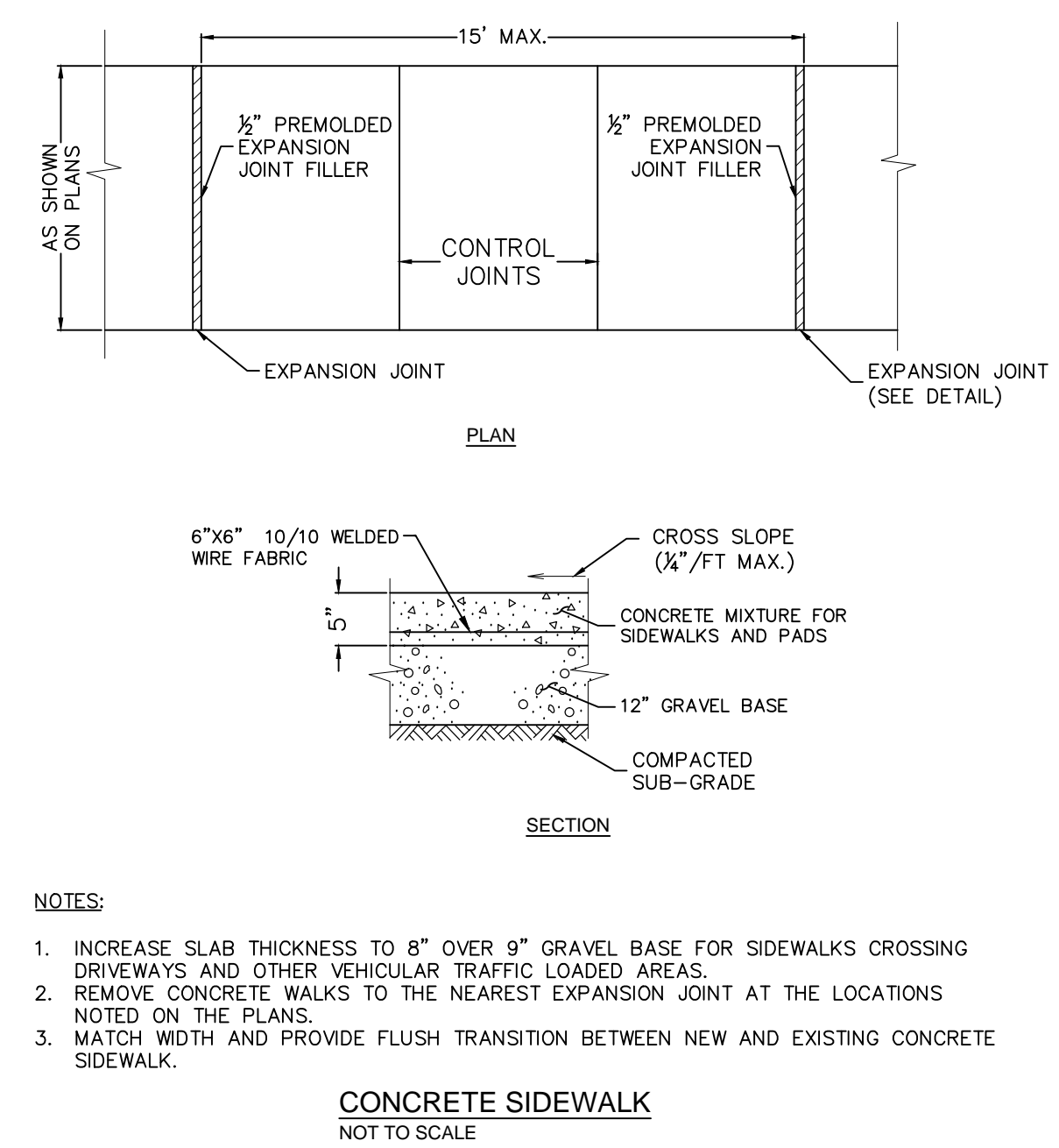


NOTES:

- THE PERMANENT SEED MIX FOR TURF ESTABLISHMENT ON NON-SLOPE AREAS IS AS FOLLOWS:

NAME	MINIMUM PROPORTION BY WEIGHT
KENTUCKY BLUEGRASS	45%
CREeping RED FESCUE	10%
PERENNIAL RYE GRASS	45%

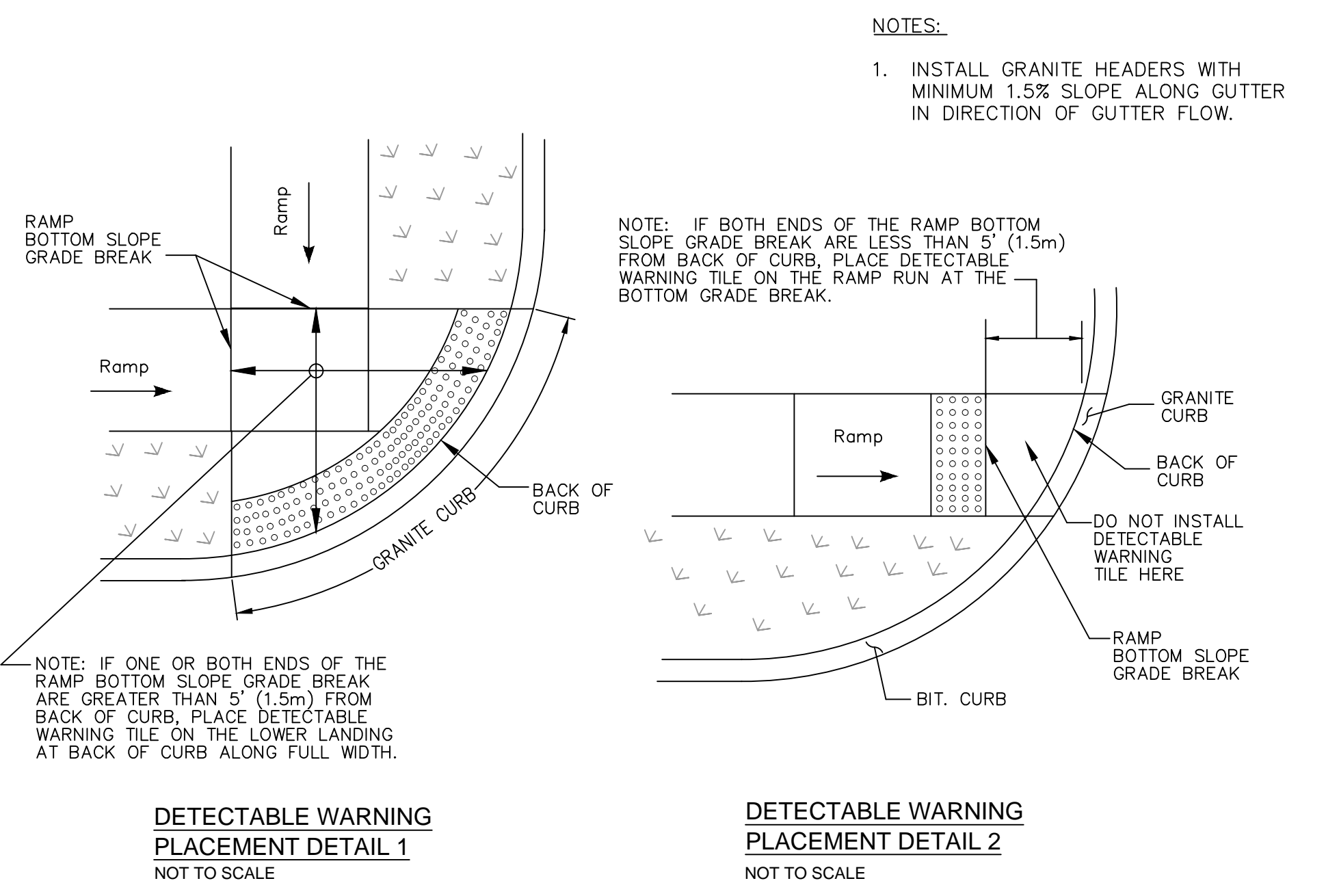
- SEED SHALL BE APPLIED AT A RATE OF 2 POUNDS PER 1000 SQUARE FEET. THE SEEDED AREA SHALL BE MULCHED WITH A LAYER OF GRASS, HAY OR STRAW AT A RATE OF 10 POUNDS PER 100 SQUARE FEET. THE SEEDED AREAS SHALL BE THOROUGHLY WATERED UNTIL SATISFACTORY STAND OF GRASS HAS BEEN ESTABLISHED.
- INCREASE DEPTH OF TOPSOIL TO 10" WITHIN AREA OF STEEP SLOPES - USE SEED MIXES SPECIFIED ON SHT ES-1 SEQUENCE OF OPERATIONS - PHASE III #2.



NOTES:

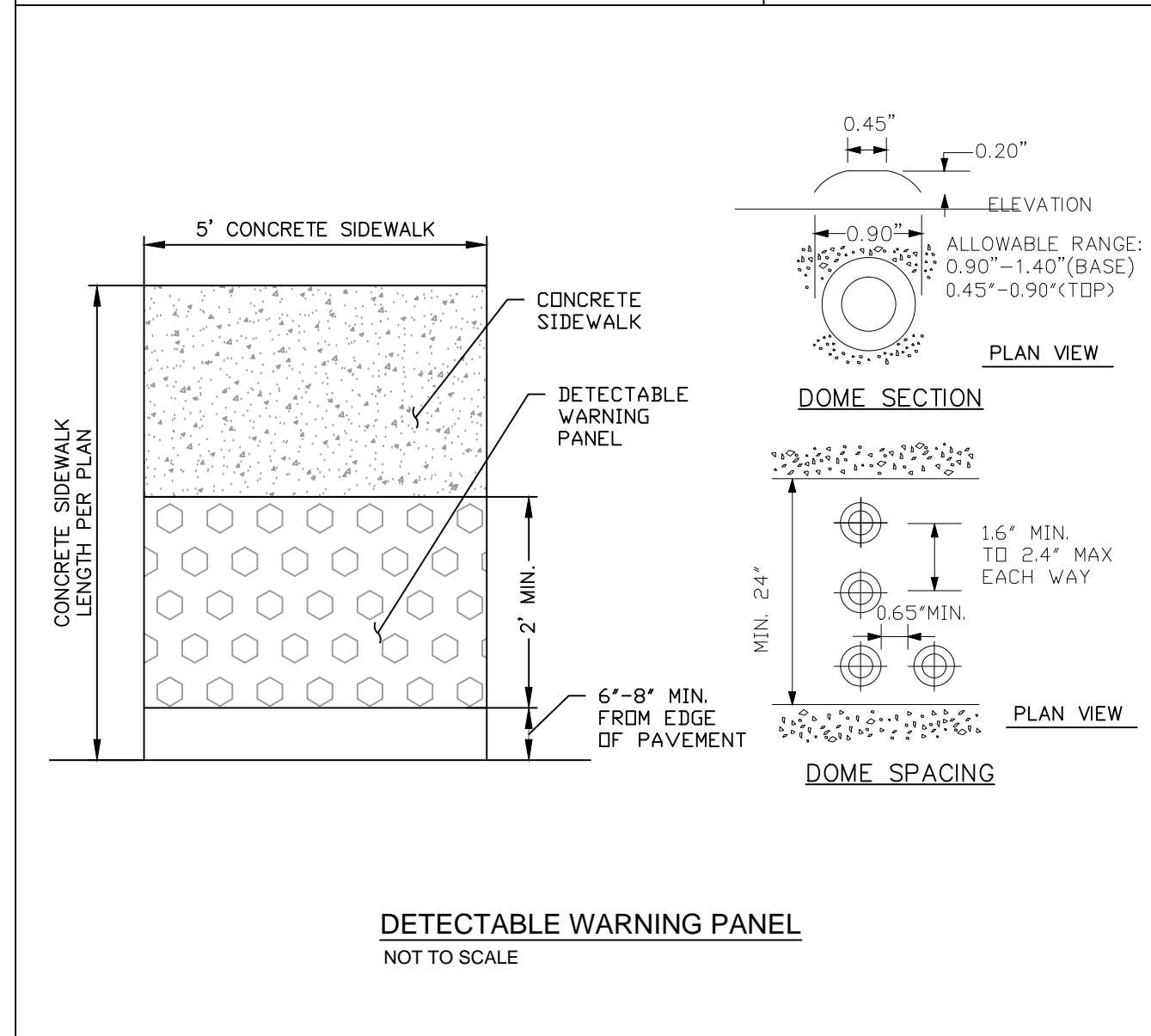
- INCREASE SLAB THICKNESS TO 8" OVER 9" GRAVEL BASE FOR SIDEWALKS CROSSING DRIVEWAYS AND OTHER VEHICULAR TRAFFIC LOADED AREAS.
- REMOVE CONCRETE WALKS TO THE NEAREST EXPANSION JOINT AT THE LOCATIONS NOTED ON THE PLANS.
- MATCH WIDTH AND PROVIDE FLUSH TRANSITION BETWEEN NEW AND EXISTING CONCRETE SIDEWALK.

CONCRETE SIDEWALK
 NOT TO SCALE



DETECTABLE WARNING PLACEMENT DETAIL 1
 NOT TO SCALE

DETECTABLE WARNING PLACEMENT DETAIL 2
 NOT TO SCALE



DETECTABLE WARNING PANEL
 NOT TO SCALE

NOTES:

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REV. NO.	DATE	DRWN	CHKD	REMARKS
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PREPARED FOR:

ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

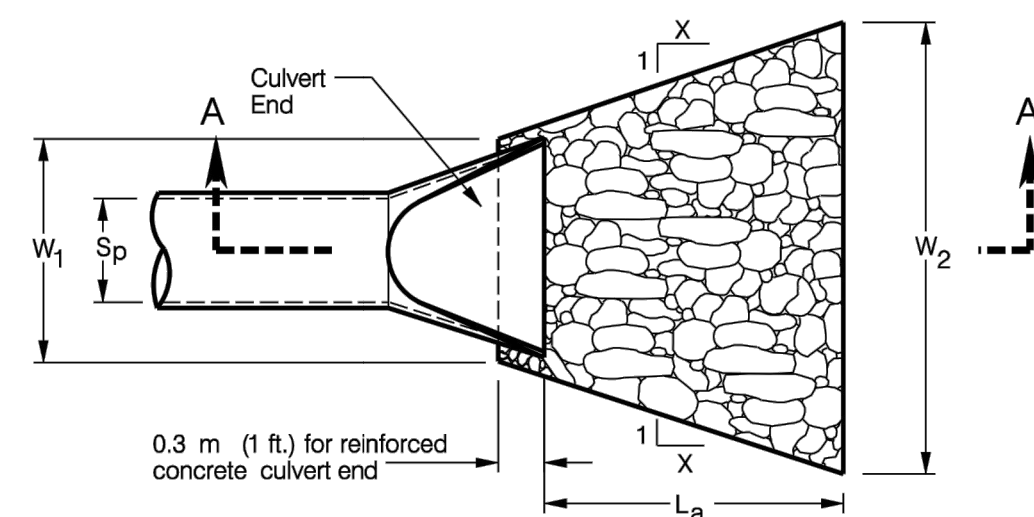
PREPARED BY:

40 Cold Spring Road • Rocky Hill, CT 06067
 Phone 860.436.4901 • Fax 860.436.4953

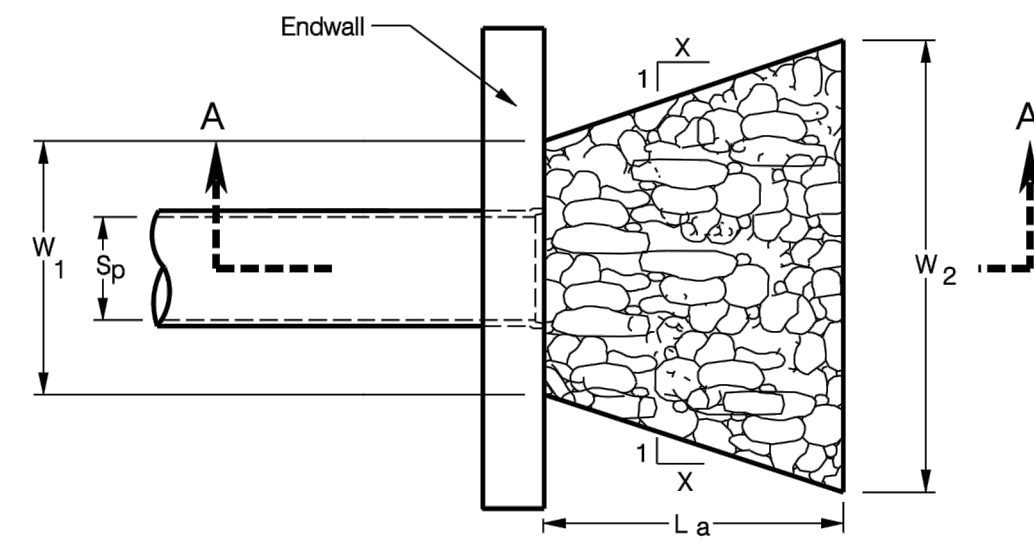
RIVERSIDE DRIVE OUTFALL
 125 RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

SHEET NO.
CD-2

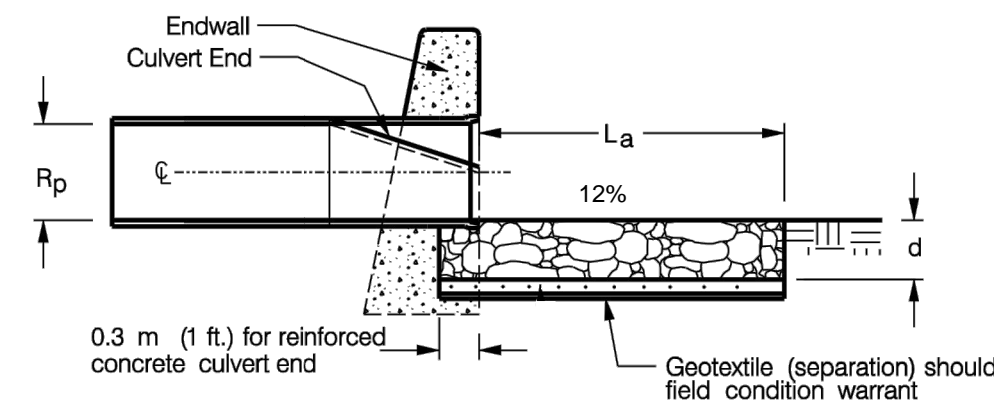
DETAILS



CULVERT END PLAN VIEW



ENDWALL PLAN VIEW



SECTION A-A
CULVERT END AND ENDWALL

TYPE A AND B RIPRAP APRON
NOT TO SCALE

LEGEND
 $S_p = \begin{cases} \text{Max. inside pipe span (non-circular sections)} \\ \text{Inside pipe diameter (circular sections)} \end{cases}$
 $R_p = \begin{cases} \text{Max. inside pipe rise (non-circular sections)} \\ \text{Inside pipe diameter (circular sections)} \end{cases}$
 $L_a = \text{Length of riprap apron measured from the end of culvert end section or face of endwall}$
 $d = \begin{cases} 300 \text{ mm (12 in.) Modified Riprap} \\ 450 \text{ mm (18 in.) Intermediate Riprap} \\ 900 \text{ mm (36 in.) Standard Riprap} \end{cases}$

	X	W ₁	W ₂
Type A Riprap Apron	3	3S _p	3S _p +0.7 L _a
Type B Riprap Apron	5	3S _p	3S _p +0.4 L _a

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PROJECT NO.: 1885
 DESIGNED BY: KMI
 DRAWN BY: KMI
 SHEET CHK'D BY: GBS
 CROSS CHK'D BY: GLJ
 APPROVED BY: _____
 DATE: MAY 8, 2017

PREPARED FOR:



GOODWIN COLLEGE
 ONE RIVERSIDE DRIVE
 EAST HARTFORD, CONNECTICUT

PREPARED BY:



ZUVIC-CARR AND ASSOCIATES CONSULTING ENGINEERS
 40 Cold Spring Road • Rocky Hill, CT 06067
 Phone 860.436.4901 • Fax 860.436.4953

RIVERSIDE DRIVE OUTFALL
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 EAST HARTFORD, CONNECTICUT

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CD-3