UNIVERSITY OF RHODE ISLAND

FARMHOUSE ROAD - CARLOTTI TO MULTICULTURAL STEAM LINE · KINGSTON · RHODE ISLAND

STEAM AND CONDENSATE IMPROVEMENTS

JANUARY 14, 2019

PREPARED FOR

URI
60 TOOTELL ROAD, SHERMAN BUILDING
KINGSTON, RI 02881
CONTACT: MATTHEW JACQUES 401-256-6256

PREPARED BY

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com
CONTACT: ELIZABETH LANDRY 860-646-2469 X5364

LOCATION MAP
SCALE: 1" = 200'

SHEET INDEX

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CU-101	SITE PLAN - CARLOTTI TO MULTICULTURAL PIT
CU-102	SITE ACCESS & CONTROL, LANDSCAPE PROTECTIONS & RESTORATION
CU-201	ELEVATION FROM VAULT "H" (CARLOTTI) TO VAULT "B-12C" (MULTICULTURAL)
CU-301	CARLOTTI STEAM VAULT "H" PLANS AND SECTIONS
CU-302	NEW HUMAN RESOURCES STEAM VAULT PLAN AND SECTIONS
CU-303	MULTICULTURAL STEAM VAULT "B-12C" PLANS AND SECTIONS
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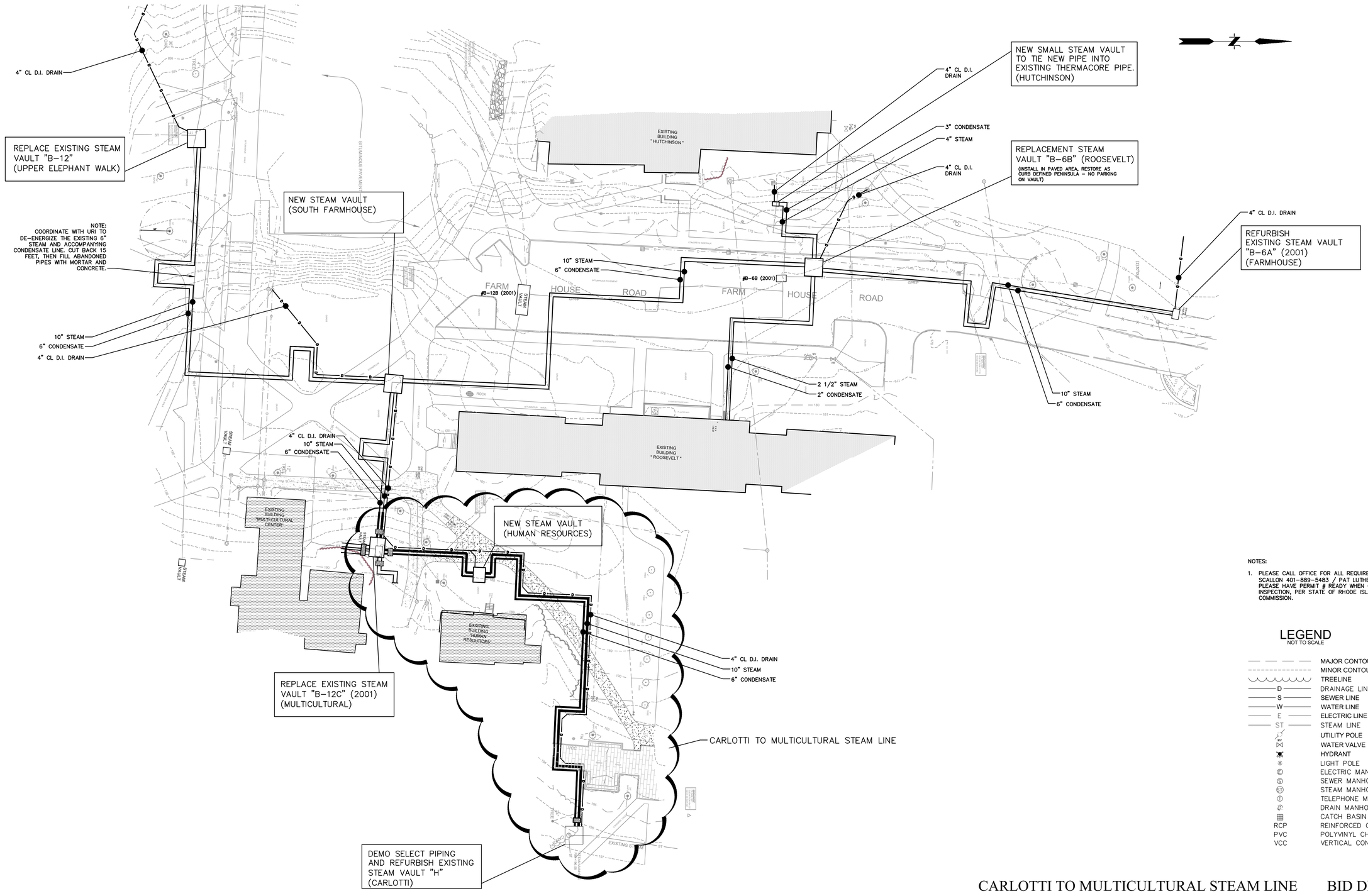

NOTES:

1. PLEASE CALL OFFICE FOR ALL REQUIRED INSPECTIONS. MIKE SCALLON 401-889-5483 / PAT LUTHER 401-921-5534. PLEASE HAVE PERMIT # READY WHEN CALLING FOR INSPECTION, PER STATE OF RHODE ISLAND BUILDING CODE COMMISSION.

LEGEND

NOT TO SCALE

	MAJOR CONTOUR
	MINOR CONTOUR
	TREELINE
D	DRAINAGE LINE
S	SEWER LINE
W	WATER LINE
E	ELECTRIC LINE
ST	STEAM LINE
	UTILITY POLE
	WATER VALVE
	HYDRANT
	LIGHT POLE
E	ELECTRIC MANHOLE
S	SEWER MANHOLE
ST	STEAM MANHOLE
T	TELEPHONE MANHOLE
D	DRAIN MANHOLE
	CATCH BASIN
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCC	VERTICAL CONCRETE CURB

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE:
HORZ.: 1" = 30'
VERT.:
DATUM:
HORZ.:
VERT.:
30 15 0 30
GRAPHIC SCALE

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
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URI

OVERALL SITE PLAN

FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS

KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-100

File Path: J:\DWG\P2014\1310\S10\MEP\Civil Utilities\20141310S10_ CU100.dwg Layout: 24X36 CU100 Plotted: Mon, January 14, 2019 - 4:01 PM User: fcaricchio
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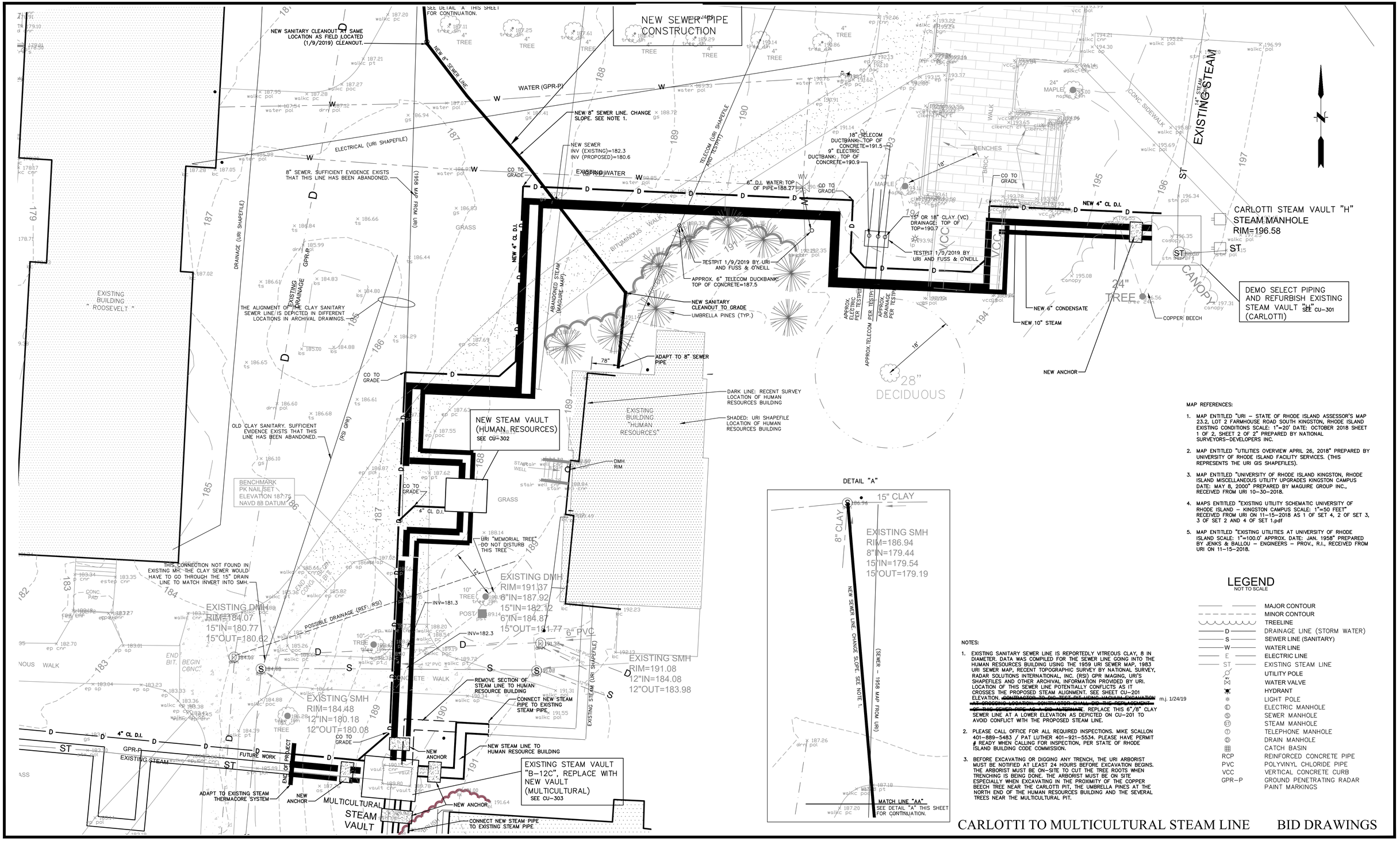

MAP REFERENCES:

1. MAP ENTITLED "URI – STATE OF RHODE ISLAND ASSESSOR'S MAP 23.2, LOT 2 FARMHOUSE ROAD SOUTH KINGSTON, RHODE ISLAND EXISTING CONDITIONS SCALE: 1"=20' DATE: OCTOBER 2018 SHEET 1 OF 2, SHEET 2 OF 2" PREPARED BY NATIONAL SURVEYORS–DEVELOPERS INC.
2. MAP ENTITLED "UTILITIES OVERVIEW APRIL 26, 2018" PREPARED BY UNIVERSITY OF RHODE ISLAND FACILITY SERVICES. (THIS REPRESENTS THE URI GIS SHAPEFILES).
3. MAP ENTITLED "UNIVERSITY OF RHODE ISLAND KINGSTON, RHODE ISLAND MISCELLANEOUS UTILITY UPGRADES KINGSTON CAMPUS DATE: MAY 8, 2000" PREPARED BY MAGUIRE GROUP INC., RECEIVED FROM URI 10–30–2018.
4. MAPS ENTITLED "EXISTING UTILITY SCHEMATIC UNIVERSITY OF RHODE ISLAND – KINGSTON CAMPUS SCALE: 1"=50 FEET" RECEIVED FROM URI ON 11–15–2018 AS 1 OF SET 4, 2 OF SET 3, 3 OF SET 2 AND 4 OF SET 1.pdf
5. MAP ENTITLED "EXISTING UTILITIES AT UNIVERSITY OF RHODE ISLAND SCALE: 1"=100.0' APPROX. DATE: JAN. 1958" PREPARED BY JENKS & BALLOU – ENGINEERS – PROV., R.I., RECEIVED FROM URI ON 11–15–2018.

NOTES:

1. EXISTING SANITARY SEWER LINE IS REPORTEDLY VITREOUS CLAY, 8 IN DIAMETER. DATA WAS COMPILED FOR THE SEWER LINE GOING INTO THE HUMAN RESOURCES BUILDING USING THE 1959 URI SEWER MAP, 1983 URI SEWER MAP, RECENT TOPOGRAPHIC SURVEY BY NATIONAL SURVEY, RADAR SOLUTIONS INTERNATIONAL, INC. (RSI) GPR IMAGING, URI'S SHAPEFILES AND OTHER ARCHIVAL INFORMATION PROVIDED BY URI. LOCATION OF THIS SEWER LINE POTENTIALLY CONFLICTS AS IT CROSSES THE PROPOSED STEAM ALIGNMENT. SEE SHEET CU-201 ELEVATION. ~~CONTRACTOR TO DO TEST PIT USING MANUAL EXCAVATION AT CROSSING LOCATION. CONTRACTOR SHALL DID THE DEPLACEMENT OF THE SEWER PIPE AS A DIB ALTERNATE.~~ REPLACE THIS 6"/8" CLAY SEWER LINE AT A LOWER ELEVATION AS DEPICTED ON CU–201 TO AVOID CONFLICT WITH THE PROPOSED STEAM LINE. m.j. 1/24/19
2. PLEASE CALL OFFICE FOR ALL REQUIRED INSPECTIONS. MIKE SCALLON 401–889–5483 / PAT LUTHER 401–921–5534. PLEASE HAVE PERMIT # READY WHEN CALLING FOR INSPECTION, PER STATE OF RHODE ISLAND BUILDING CODE COMMISSION.
3. BEFORE EXCAVATING OR DIGGING ANY TRENCH, THE URI ARBORIST MUST BE NOTIFIED AT LEAST 24 HOURS BEFORE EXCAVATION BEGINS. THE ARBORIST MUST BE ON–SITE TO CUT THE TREE ROOTS WHEN TRENCHING IS BEING DONE. THE ARBORIST MUST BE ON SITE ESPECIALLY WHEN EXCAVATING IN THE PROXIMITY OF THE COPPER BEECH TREE NEAR THE CARLOTTI PIT, THE UMBRELLA PINES AT THE NORTH END OF THE HUMAN RESOURCES BUILDING AND THE SEVERAL TREES NEAR THE MULTICULTURAL PIT.

LEGEND
NOT TO SCALE

	MAJOR CONTOUR
	MINOR CONTOUR
	TREELINE
D	DRAINAGE LINE (STORM WATER)
S	SEWER LINE (SANITARY)
W	WATER LINE
E	ELECTRIC LINE
ST	EXISTING STEAM LINE
	UTILITY POLE
	WATER VALVE
	HYDRANT
	LIGHT POLE
	ELECTRIC MANHOLE
	SEWER MANHOLE
	STEAM MANHOLE
	TELEPHONE MANHOLE
	DRAIN MANHOLE
	CATCH BASIN
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCC	VERTICAL CONCRETE CURB
GPR–P	GROUND PENETRATING RADAR PAINT MARKINGS

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE: HORZ.: SCALE: 1" = 10' VERT.:
DATUM: HORZ.: VERT.: NAVD88
10 5 0 10
GRAPHIC SCALE

FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
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URI

SITE PLAN - CARLOTTI TO MULTICULTURAL PIT

FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS

KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-101

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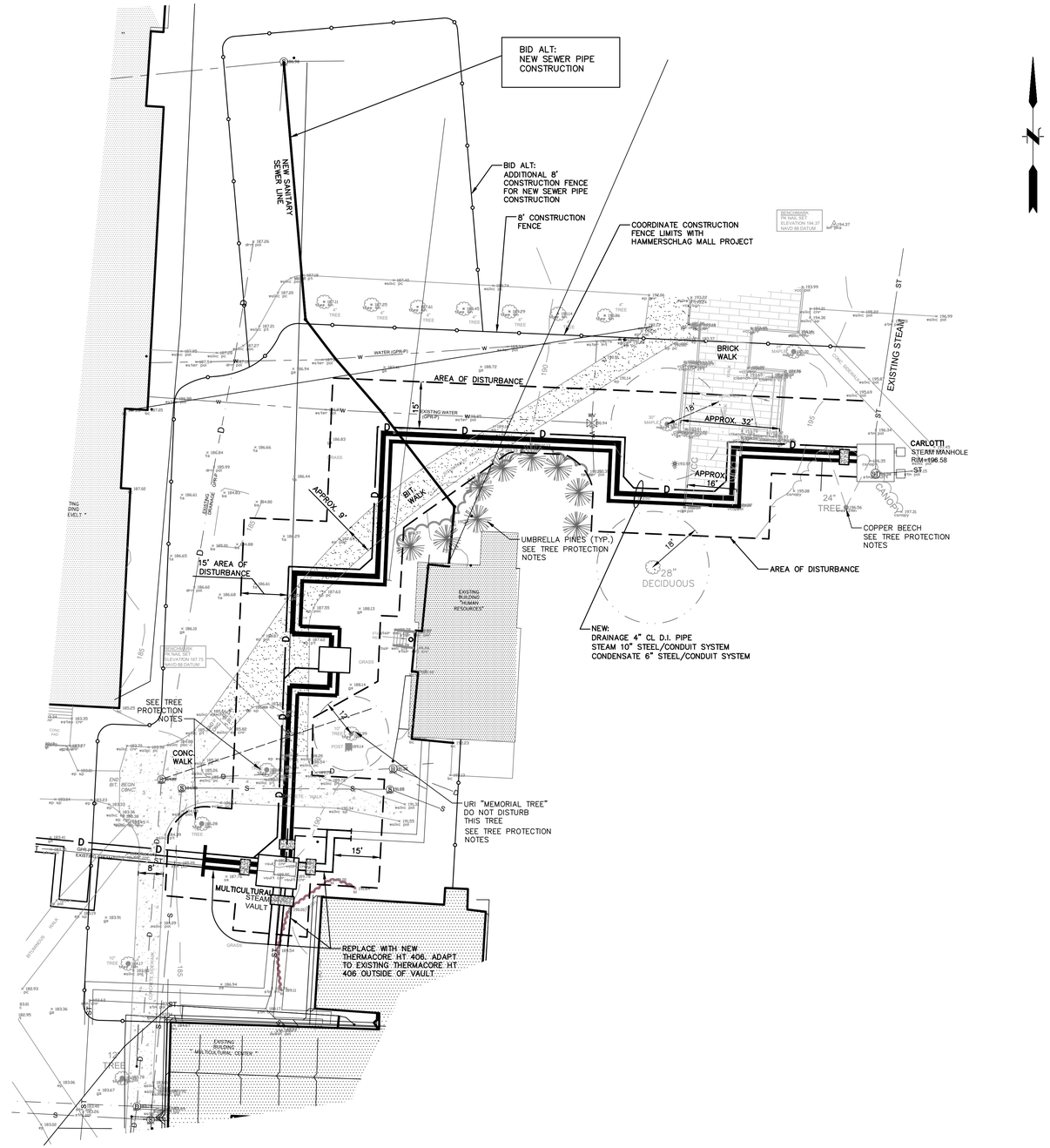

GENERAL NOTES:

1. ACCESS TO THE WORK AREA: THE ACCESS TO THE WORK AREA FOR THE STEAM LINE SHALL BE THROUGH THE HAMMERSCHLAG WAY CONSTRUCTION WORK ZONE. COORDINATE WITH THE HAMMERSCHLAG "URI KINGSTON CAMPUS PRIORITY IMPROVEMENTS PROJECTS HAMMERSCHLAG MALL" PROJECT FOR ACCESS.
2. COORDINATE THE LAYDOWN AREA WITH THE HAMMERSCHLAG MALL PROJECT.
3. CONSTRUCTION FENCE AND AREA OF DISTURBANCE SHOWN ON THIS DRAWING.
4. SIDEWALK REPLACEMENT: REPLACE EXISTING SIDEWALKS PER THE REQUIREMENTS OF THE URI LANDSCAPE MASTER PLAN, SECTION 6.2 – DISTRICT–BASED STANDARDS & DETAILS, (HTTPS://WEB.URI.EDU/CPD/FILES/CAMPUS–STANDARD–DETAILS–2017–C.PDF):

   FOR CONCRETE SIDEWALKS:

   - LESS THAN 6 FEET WIDE USE DETAIL: 6–FOOT WIDE PEDESTRIAN PATH (URI2017–17)
   - GREATER THAN 6 FEET WIDE TO 8 FEET WIDE USE DETAIL: 8–FOOT WIDE PEDESTRIAN PATH (URI2017–18)
   - GREATER THAN 8 FEET WIDE TO 15 FEET WIDE USE DETAIL: 15–FOOT WIDE PEDESTRIAN & VEHICULAR PATH (URI2017–19)
   - FOR EXPANSION JOINT REQUIREMENTS USE CONCRETE CONTROL JOINT/EXPANSION JOINT DETAIL (URI2017–20) OR EXPANSION JOINT DETAIL (URI2017–21) AS APPLIES.
5. PLEASE CALL OFFICE FOR ALL REQUIRED INSPECTIONS, MIKE SCALLON 401–889–5483 / PAT LUTHER 401–921–5534. PLEASE HAVE PERMIT # READY WHEN CALLING FOR INSPECTION, PER STATE OF RHODE ISLAND BUILDING CODE COMMISSION.

TREE PROTECTION NOTES:

1. DRIPLINE TREE PROTECTION: PROVIDE DRIPLINE TREE PROTECTION FOR THE TREES WITHIN THE WORK AREA AND THE INDIVIDUAL TREES LISTED BELOW, PER THE REQUIREMENTS OF THE URI LANDSCAPE MASTER PLAN, SECTION 6.2 – DISTRICT–BASED STANDARDS & DETAILS, (HTTPS://WEB.URI.EDU/CPD/FILES/CAMPUS–STANDARD–DETAILS–2017–C.PDF).

   BEFORE PLACING THE PROTECTIVE FENCE, CONTACT THE URI ARBORIST AT LEAST 24 HOURS IN ADVANCE. THE ARBORIST WILL PROVIDE GUIDANCE ON PLACEMENT OF THE PROTECTIVE FENCING FOR THE FOLLOWING TREES:

   - AROUND THE COPPER BEECH TREE NEAR THE SW CORNER OF CARLOTTI STEAM PIT/VAULT.
   - AROUND THE PERIMETER OF THE UMBRELLA PINES AT THE NORTH END OF THE HUMAN RESOURCES BUILDING.
   - AROUND THE THREE TREES NORTH OF THE EXISTING MULTICULTURAL STEAM PIT (ONE MEMORIAL TREE AND TWO OTHER HARDWOOD TREES).
2. BEFORE EXCAVATING OR DIGGING ANY TRENCH, THE URI ARBORIST MUST BE NOTIFIED AT LEAST 24 HOURS BEFORE EXCAVATION BEGINS. THE ARBORIST MUST BE ON–SITE TO CUT THE TREE ROOTS WHEN TRENCHING IS BEING DONE. THE ARBORIST MUST BE ON SITE ESPECIALLY WHEN EXCAVATING IN THE PROXIMITY OF THE COPPER BEECH TREE NEAR THE CARLOTTI PIT, THE UMBRELLA PINES AT THE NORTH END OF THE HUMAN RESOURCES BUILDING, AND THE THREE TREES NEAR/NORTH OF THE MULTICULTURAL PIT.

LEGEND
NOT TO SCALE

	MAJOR CONTOUR
	MINOR CONTOUR
	TREELINE
D	DRAINAGE LINE (STORM WATER)
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	LIGHT POLE
	ELECTRIC MANHOLE
	SEWER MANHOLE
	STEAM MANHOLE
	TELEPHONE MANHOLE
	DRAIN MANHOLE
	CATCH BASIN
RCP	REINFORCED CONCRETE PIPE
PVC	POLYVINYL CHLORIDE PIPE
VCC	VERTICAL CONCRETE CURB
GPR–P	GROUND PENETRATING RADAR PAINT MARKINGS

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE:
HORZ.: SCALE: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.: NAVD88
20 10 0 20
GRAPHIC SCALE

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317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
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URI

SITE ACCESS & CONTROL, LANDSCAPE PROTECTIONS & RESTORATION

FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS

KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-102

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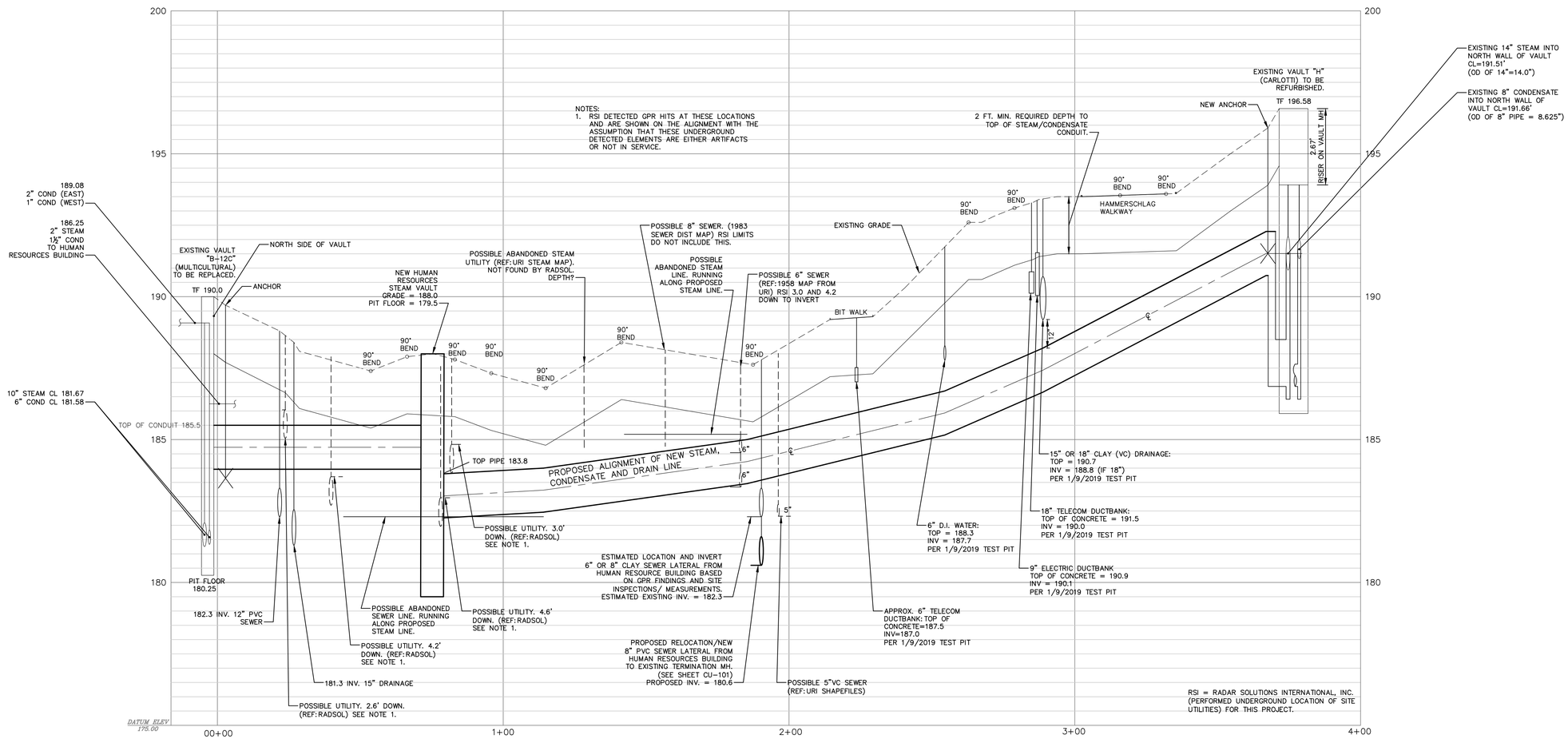

1 STEAM LINE ELEVATION – FROM VAULT "H" (CARLOTTI) TO VAULT "B-12C" (MULTICULTURAL)

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: ½" = 1'-0"

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE:
HORZ.: AS SHOWN
VERT.:
DATUM:
HORZ.:
VERT.:
20 10 0 20
GRAPHIC SCALE

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URI
ELEVATION FROM VAULT "H" (CARLOTTI) TO VAULT "B-12C" (MULTICULTURAL)
FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS
KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-201

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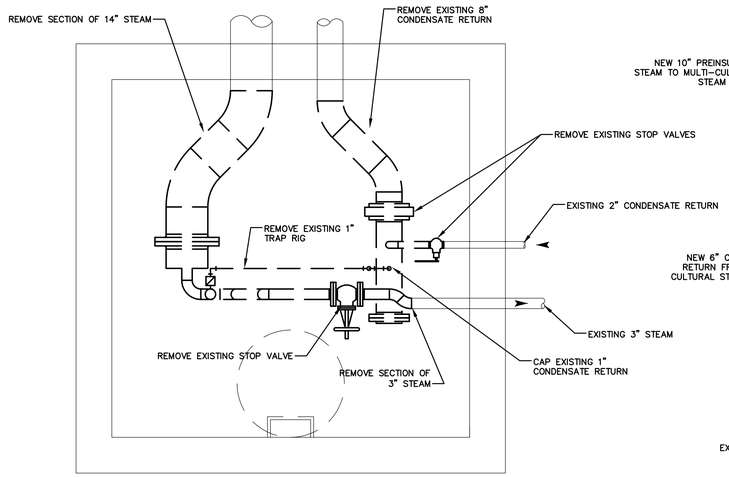
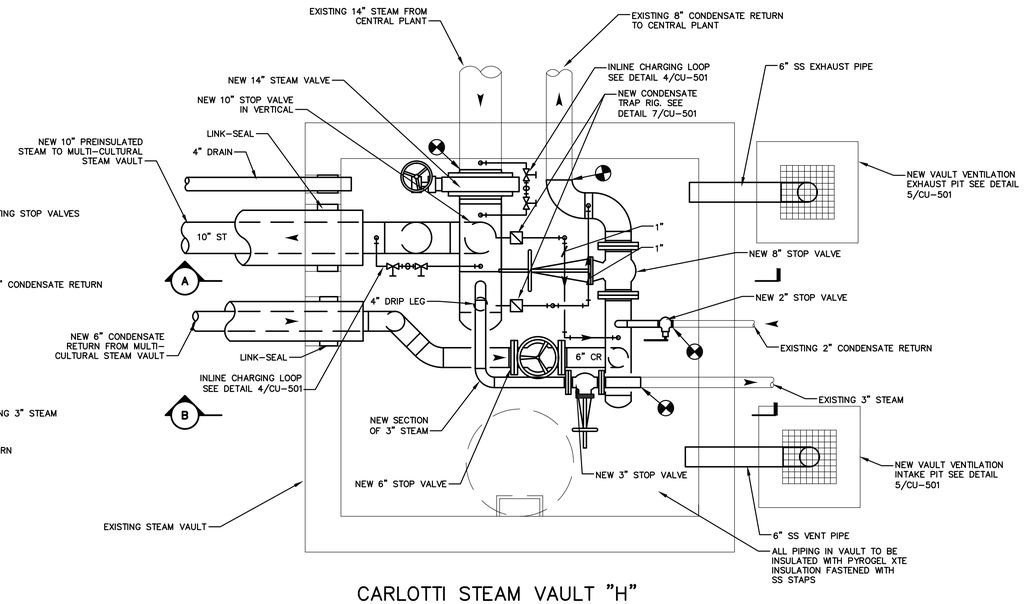
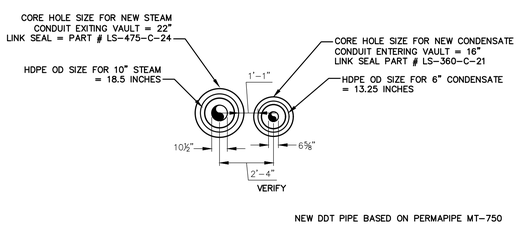


CARLOTTI STEAM VAULT "H" DEMOLITION PLAN
1/2" = 1'-0"

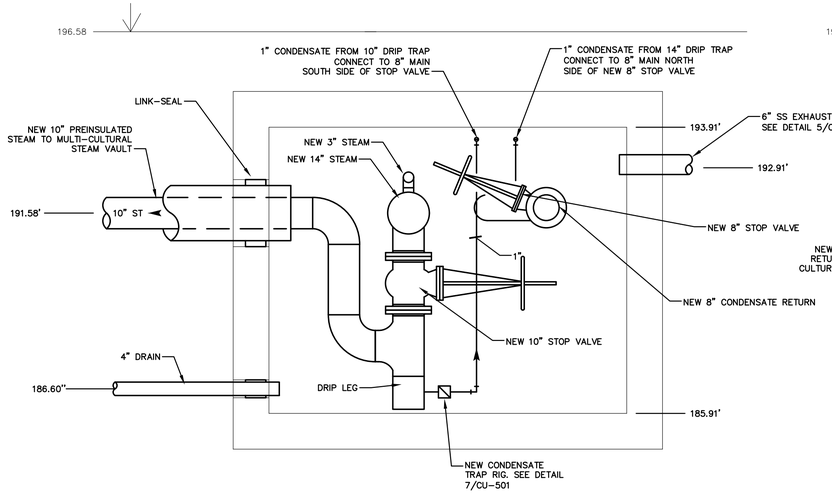


CARLOTTI STEAM VAULT "H" NEW PIPING PLAN
1/2" = 1'-0"

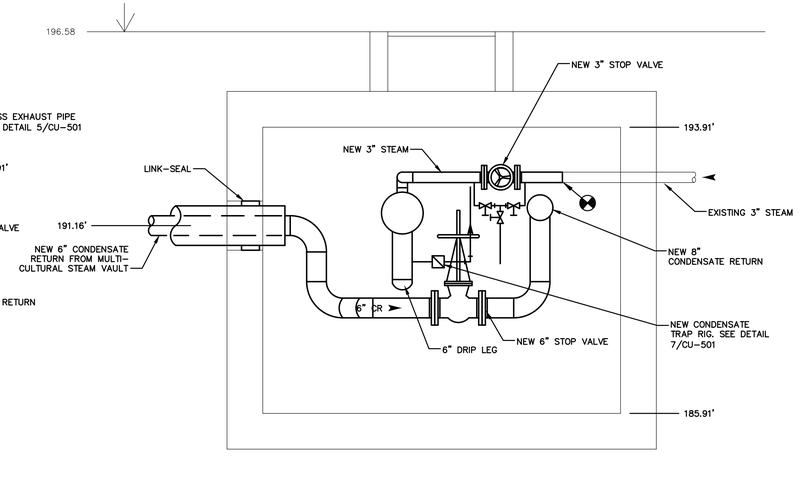
POINT OF CONNECTION OF NEW TO EXISTING



1 STEAM AND CONDUIT PENETRATION FOR CARLOTTI VAULT
1/4" = 1'-0"



A STEAM VAULT SECTION A
1/2" = 1'-0"



B STEAM VAULT SECTION B
1/2" = 1'-0"

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE: HORZ.: AS SHOWN VERT.:
DATUM: HORZ.: VERT.:
2 0 2
GRAPHIC SCALE

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URI
CARLOTTI STEAM VAULT "H"
PLANS AND SECTIONS
FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS
KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-301

File Path: J:\DW\GIP\20141310\S10\MEP\Civil Utilities\20141310S10_SEC301 CARLOTTI.dwg Layout: CU301 Plotted: Mon, January 14, 2019 - 4:01 PM User: fcaricchio
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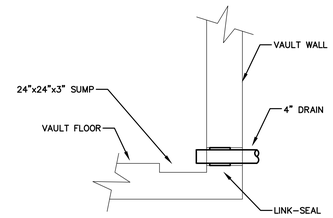
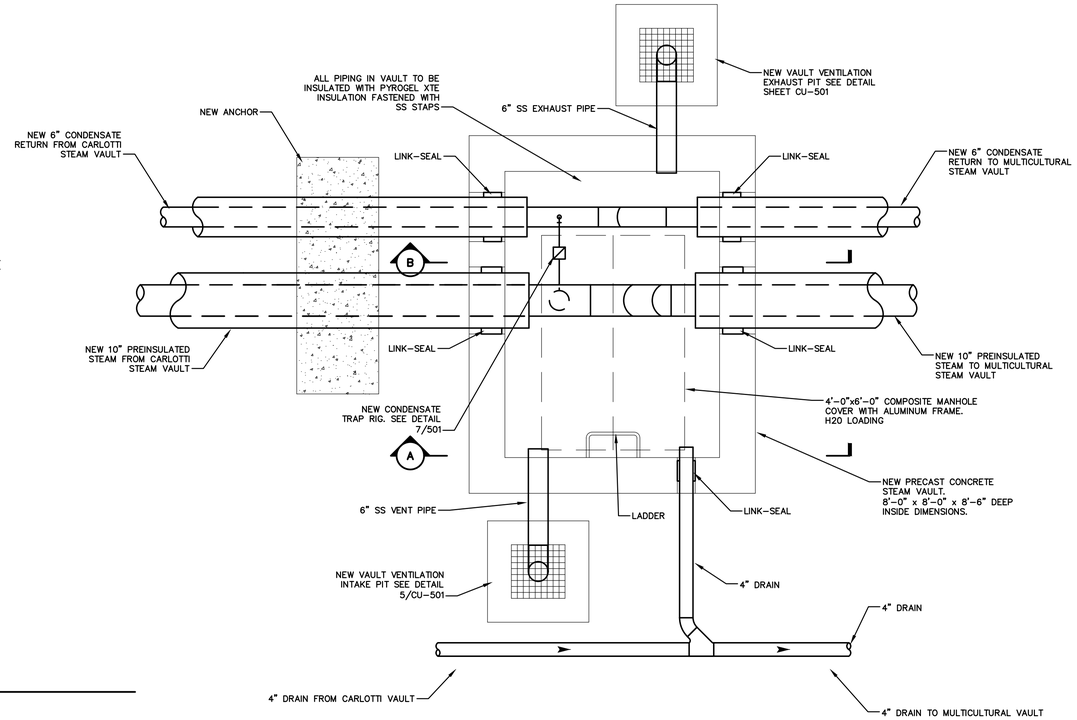
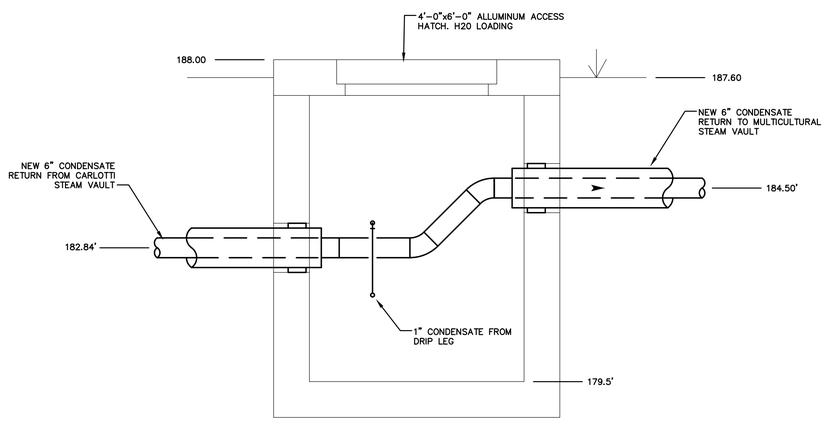


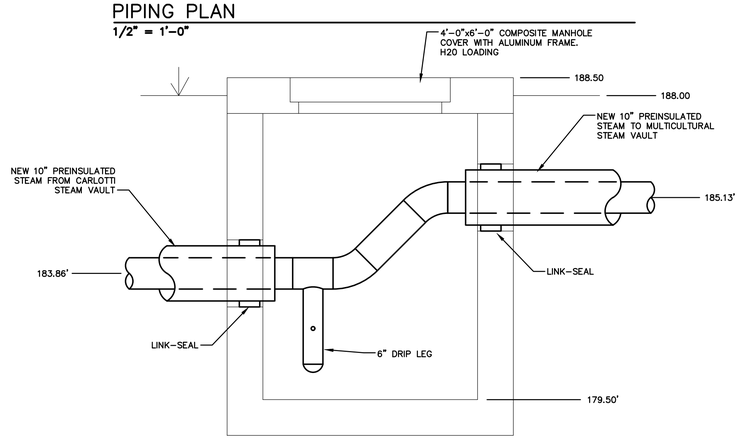
1 STEAM VAULT DRAIN DETAIL
1/2" = 1'-0"



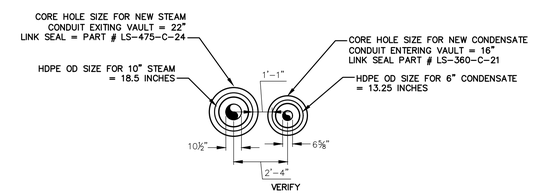
NEW HUMAN RESOURCES STEAM VAULT – PIPING PLAN
1/2" = 1'-0"



B STEAM VAULT SECTION B
1/2" = 1'-0"



A STEAM VAULT SECTION A
1/2" = 1'-0"



3 STEAM AND CONDUIT PENETRATION FOR NEW VAULT
1/4" = 1'-0"

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE: HORZ.: AS SHOWN VERT.:
DATUM: HORZ.: VERT.:
2 0 2
GRAPHIC SCALE

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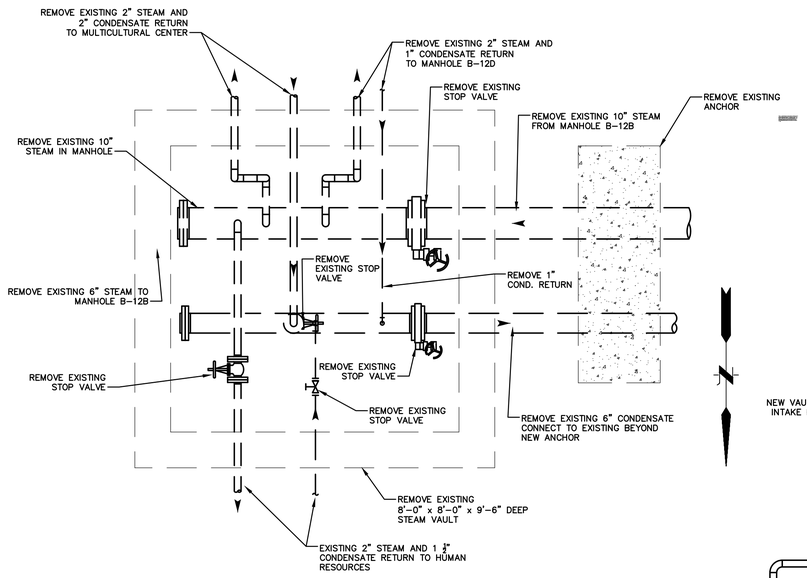
URI
NEW HUMAN RESOURCES STEAM VAULT PLAN AND SECTIONS
FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS
KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019
CU-302

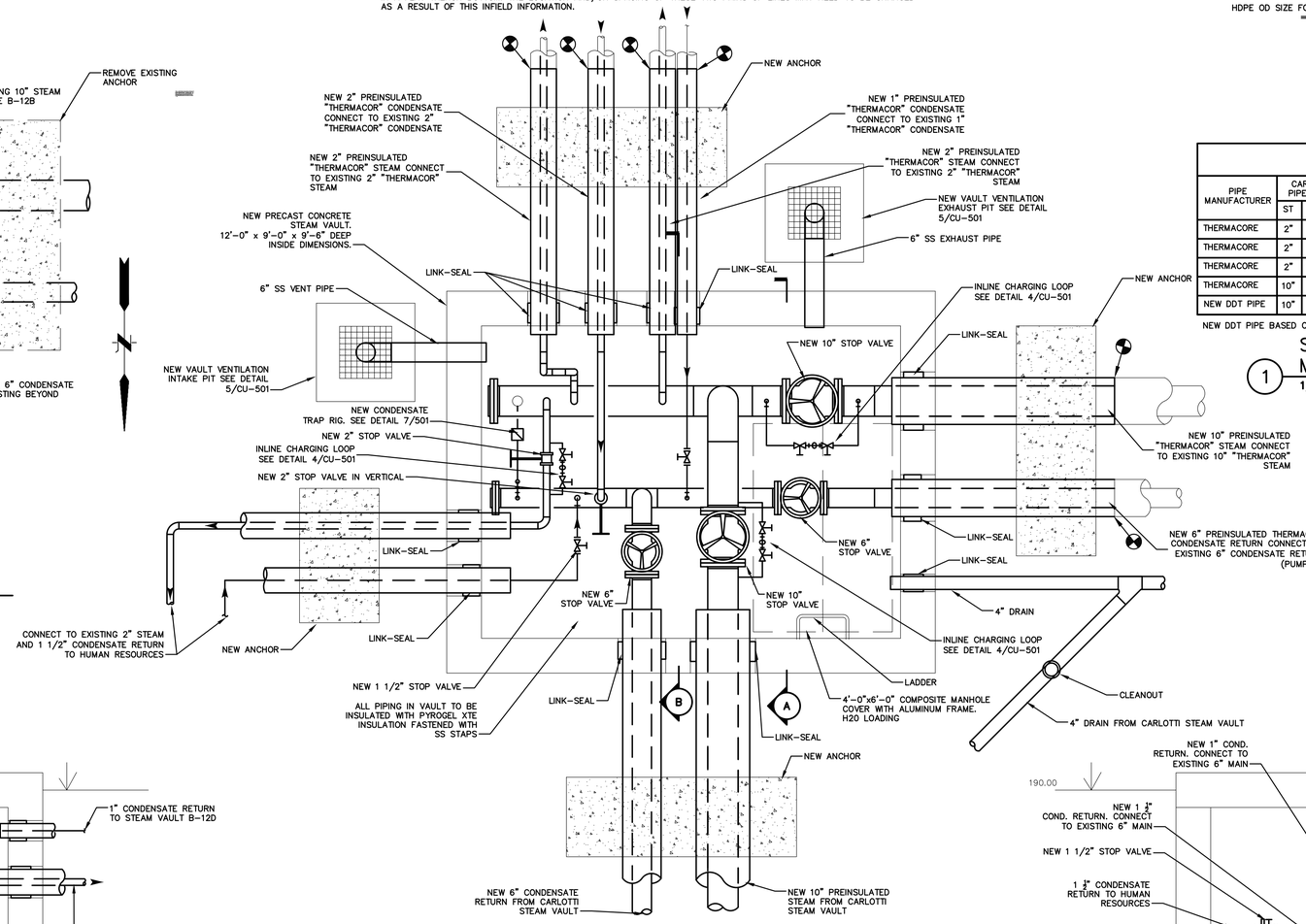
File Path: J:\DW\GIP\20141310\S10\MEP\Civil Utilities\20141310S10_SEC302 NEW HR.dwg Layout: CU302 Plotted: Mon, January 14, 2019 - 4:01 PM User: fcarricchio
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW: LAYER STATE:

CONTRACTOR TO EXCAVATE THE EXISTING TWO SETS OF STEAM AND CONDENSATE LINES EXITING THE SOUTH WALL OF THE EXISTING MULTICULTURAL STEAM VAULT TO DETERMINE THE LOCATIONS OF THE EXISTING PIPING AND REPORT THE FINDINGS TO URI AND THE ENGINEER. CONTRACTOR TO GIVE 72 HOURS NOTICE BEFORE EXCAVATION SO THAT URI AND/OR THE ENGINEER CAN BE PRESENT FOR THE EXCAVATION. CURRENTLY THE STEAM AND CONDENSATE PAIRS ARE VERTICALLY STAGGERED IN AN ATYPICAL FASHION. IT IS ASSUMED THAT THE PAIR EVENTUALLY LAY SIDE BY SIDE IN A FLAT TRENCH BOTTOM. THE LOCATION AND/OR SPACING OF THESE TWO PAIRS OF LINES MAY NEED TO BE CHANGED AS A RESULT OF THIS INFIELD INFORMATION.



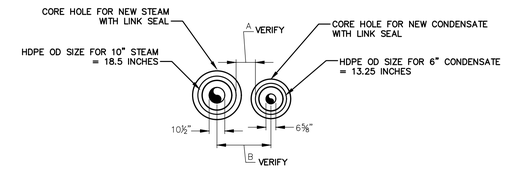
MULTICULTURAL STEAM VAULT "B-12C" DEMOLITION PLAN

1/2" = 1'-0"



NEW MULTICULTURAL STEAM VAULT "B-12C" NEW PIPING PLAN

1/2" = 1'-0"



PIPE PENETRATION SCHEDULE								
PIPE MANUFACTURER	CARRIER PIPE SIZE		"A" DISTANCE BETWEEN CASINGS	"B" CL TO CL CARRIER PIPE	O.D. OF CASING		LINK-SEAL NUMBER / CORE SIZE	
	ST	CR			ST	CR	ST	CR
THERMACORE	2"	2"	–	–	8.68"	8.68"	LS-475-C-12 / 12	LS-475-C-12 / 12
THERMACORE	2"	1"	–	–	8.68"	6.68"	LS-475-C-12 / 12	LS-475-C-10 / 10
THERMACORE	2"	1 1/2"	–	–	8.68"	8.68"	LS-475-C-12 / 12	LS-475-C-12 / 12
THERMACORE	10"	6"	–	–	16.14"	12.85"	LS-575-C-18 / 20	LS-410-C-17 / 16
NEW DDT PIPE	10"	6"	1'-1"	2'-4"	18.50"	13.25"	LS-475-C-24 / 22	LS-360-C-21 / 16

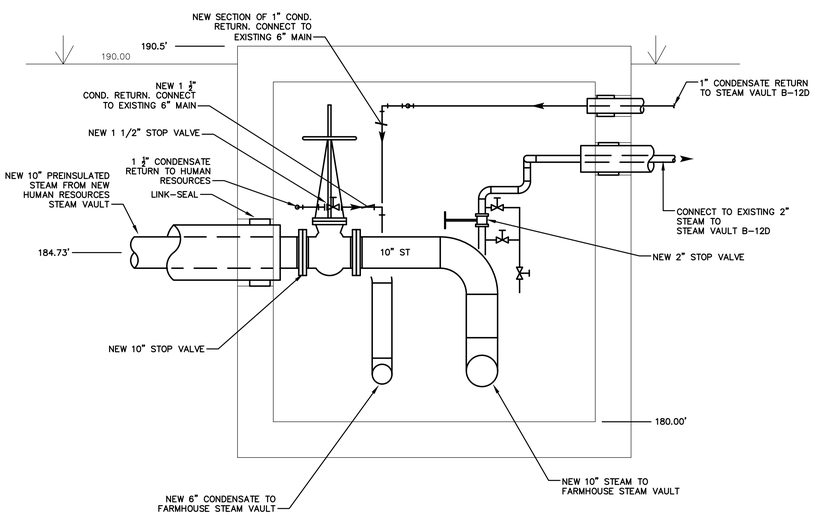
NEW DDT PIPE BASED ON PERMAPIPE MT-750

1 STEAM AND CONDUIT PENETRATION FOR MULTICULTURAL VAULT

1/4" = 1'-0"

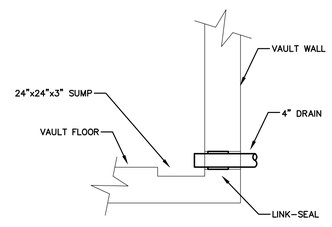
NOTE:
ALL PIPING AND VALVING IN VAULT SHALL BE NEW CONNECTING TO EXISTING PIPING OUTSIDE OF VAULT

POINT OF CONNECTION OF NEW TO EXISTING



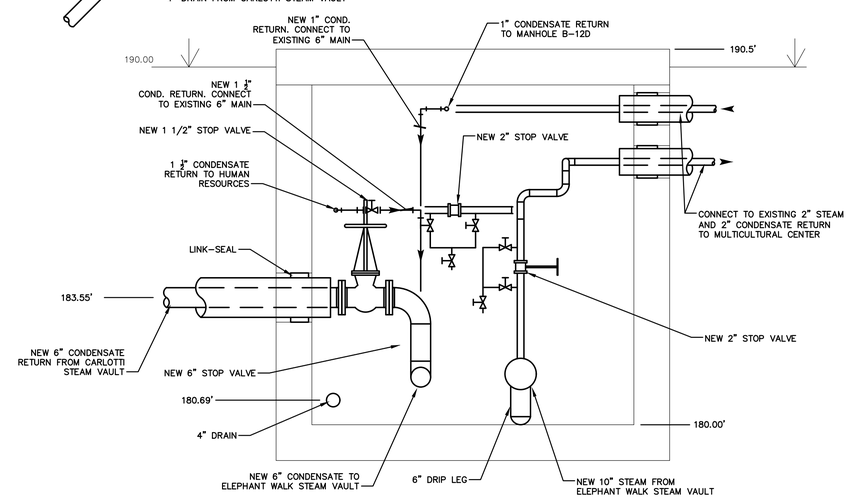
A STEAM VAULT SECTION A

1/2" = 1'-0"



2 STEAM VAULT DRAIN DETAIL

1/2" = 1'-0"



B STEAM VAULT SECTION B

1/2" = 1'-0"

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE:
HORZ.: AS SHOWN
VERT.:
DATUM:
HORZ.:
VERT.:
2 0 2
GRAPHIC SCALE

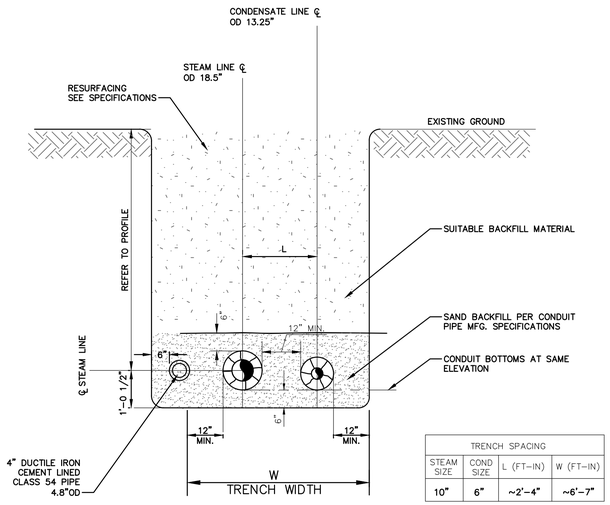
FUSS & O'NEILL
317 IRON HORSE WAY, SUITE 204
PROVIDENCE, RI 02908
401.861.3070
www.fando.com

URI
MULTICULTURAL STEAM VAULT "B-12C"
PLANS AND SECTIONS
FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS
KINGSTON RHODE ISLAND

PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-303

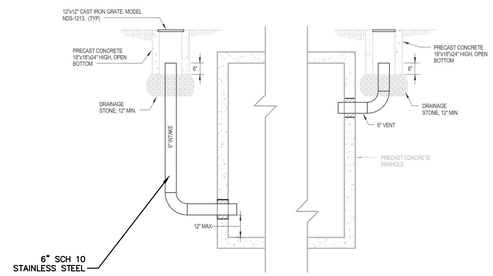
File Path: J:\DWG\P\2014\1310\S10\MEP\Civil Utilities\20141310S10_SEC303 MULTI.dwg Layout: CU303 Plotted: Mon, January 14, 2019 - 4:01 PM User: fcarlicchio
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
MS VIEW:
LAYER STATE:



TRENCH SPACING			
STEAM SIZE	COND SIZE	L (FT-IN)	W (FT-IN)
10"	6"	~2'-4"	~6'-7"

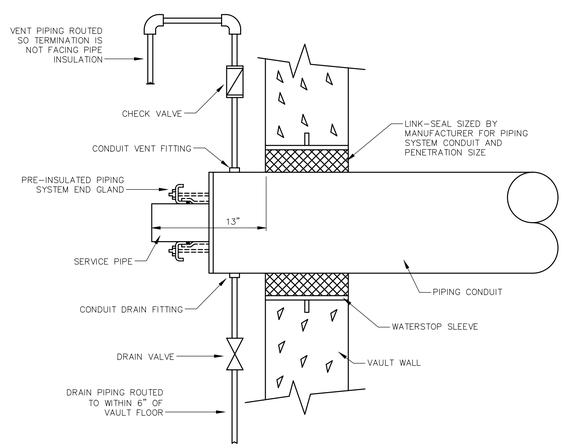
2 TYPICAL BURIED INSULATED CONDUIT PIPING TRENCH SECTION

SCALE: N.T.S.



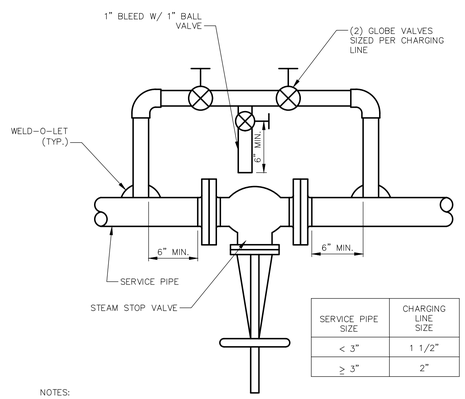
5 MANHOLE VENT DETAIL

SCALE: N.T.S.



1 TYPICAL END GLAND DETAIL

SCALE: N.T.S.



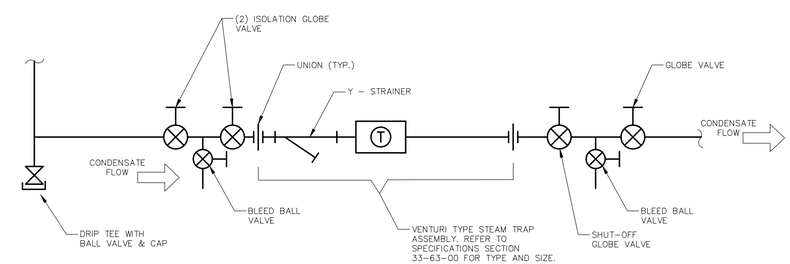
SERVICE PIPE SIZE	CHARGING LINE SIZE
< 3"	1 1/2"
≥ 3"	2"

NOTES:

1. ORIENT MAIN VALVES AS SHOWN ON INDIVIDUAL PLANS.
2. ORIENT CHARGING LOOP AND GLOBE VALVES AS SHOWN ON INDIVIDUAL PLANS.
3. CHARGING LOOP SHALL NOT BE LOCATED ON BOTTOM HALF ON SERVICE PIPE.
4. BLEED PIPE OUTLET SHALL NOT DISCHARGE ONTO PIPE INSULATION.

4 INLINE CHARGING LOOP DETAIL

SCALE: N.T.S.



URI TO PROVIDE STEAM LOAD FOR DETERMINING
TRAP SIZE/SELECTION

7 TYPICAL STEAM TRAP PIPING DETAIL

SCALE: N.T.S.

CARLOTTI TO MULTICULTURAL STEAM LINE BID DRAWINGS

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.				

SEAL

SEAL

SCALE:
HORZ.: AS SHOWN
VERT.:
DATUM:
HORZ.:
VERT.:
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GRAPHIC SCALE

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URI

DETAILS

FARMHOUSE ROAD - STEAM AND CONDENSATE IMPROVEMENTS

KINGSTON RHODE ISLAND

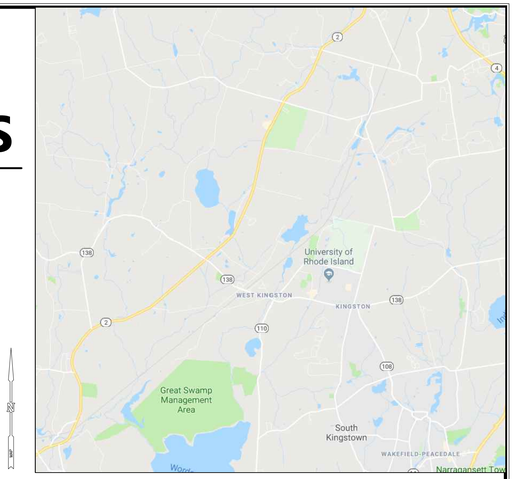
PROJ. No.: 20141310.S10
DATE: 01/14/2019

CU-501

File Path: J:\DWG\P\20141310S10\MEP\Civil Utilities\20141310S10_DET501_Carlotti.dwg Layout: CU501 Plotted: Mon, January 14, 2019 - 4:01 PM User: fcaricchio
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS

HAMMERSCHLAG MALL



LOCATION MAP:

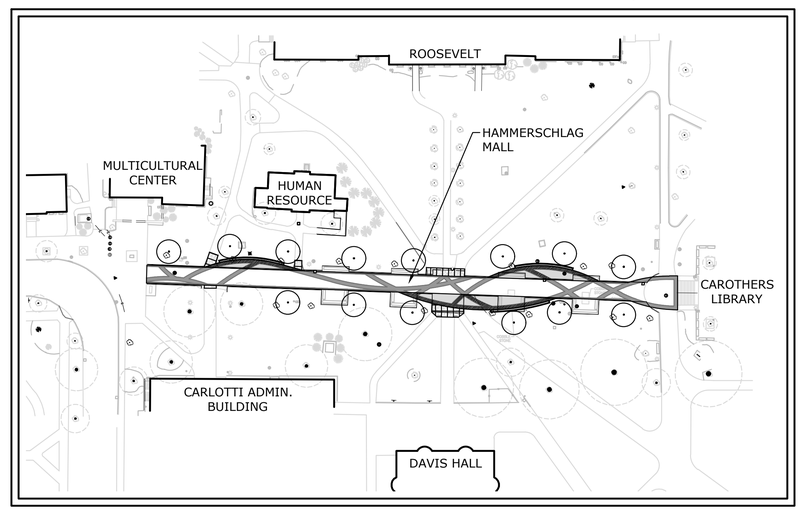
0' 30' 60'
0 1/2" 1"
SCALE 1" = 60'

URI #7575492

45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

BID DOCUMENTS
JANUARY14, 2019

MAP



PROJECT SITE VICINITY MAP:

0' 30' 60'
0 1/2" 1"
SCALE 1" = 60'

PREPARED BY:

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

PREPARED FOR:

THE UNIVERSITY OF RHODE ISLAND
KINGSTON, RHODE ISLAND 02881

LIST OF DRAWINGS

NO.	NAME	TITLE
01	--	TITLE SHEET
02	IN	INDEX, NOTES & LEGEND
03	EX	EXISTING CONDITIONS
04	SE	SEDIMENT & EROSION CONTROL PLAN
05	RM	SITE PLAN - REMOVALS
06	TYP	TYPICAL CROSS SECTIONS
07	LM	SITE PLAN - LANDSCAPING & MATERIALS
08	CL	SITE PLAN - CONSTRUCTION LAYOUT
09	GU	SITE PLAN - GRADING AND UTILITIES
10	SD-1	SITE DETAILS
11	SD-2	SITE DETAILS

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GENERAL NOTES

1. PLANIMETRIC AND TOPOGRAPHIC INFORMATION IS BASED UPON FIELD SURVEY CONDUCTED BY: BRYANT ASSOCIATES, INC., TAKEN FROM A MAP ENTITLED TOPOGRAPHIC SURVEY, , PREPARED FOR UNIVERSITY OF RHODE ISLAND AT A SCALE OF 1"=20', DATED: SEPTEMBER 19, 2018.
2. EXISTING UTILITY INFORMATION HAS BEEN SUPPLEMENTED WITH GEOGRAPHIC INFORMATION SYSTEMS (GIS) UTILITY MAPPING AS PROVIDED BY THE UNIVERSITY OF RHODE ISLAND.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE", 1-888-DIG-SAFE OR 811. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
4. MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
5. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE URI OFFICE OF CAPITAL PROJECTS (OCP).
6. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE LATEST "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK", AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
7. ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS, AS SHOWN ON THE PLANS.
8. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO UNIVERSITY OF RHODE ISLAND REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ADDENDUMS.
10. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
11. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
12. COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.

CONSTRUCTION SEQUENCE

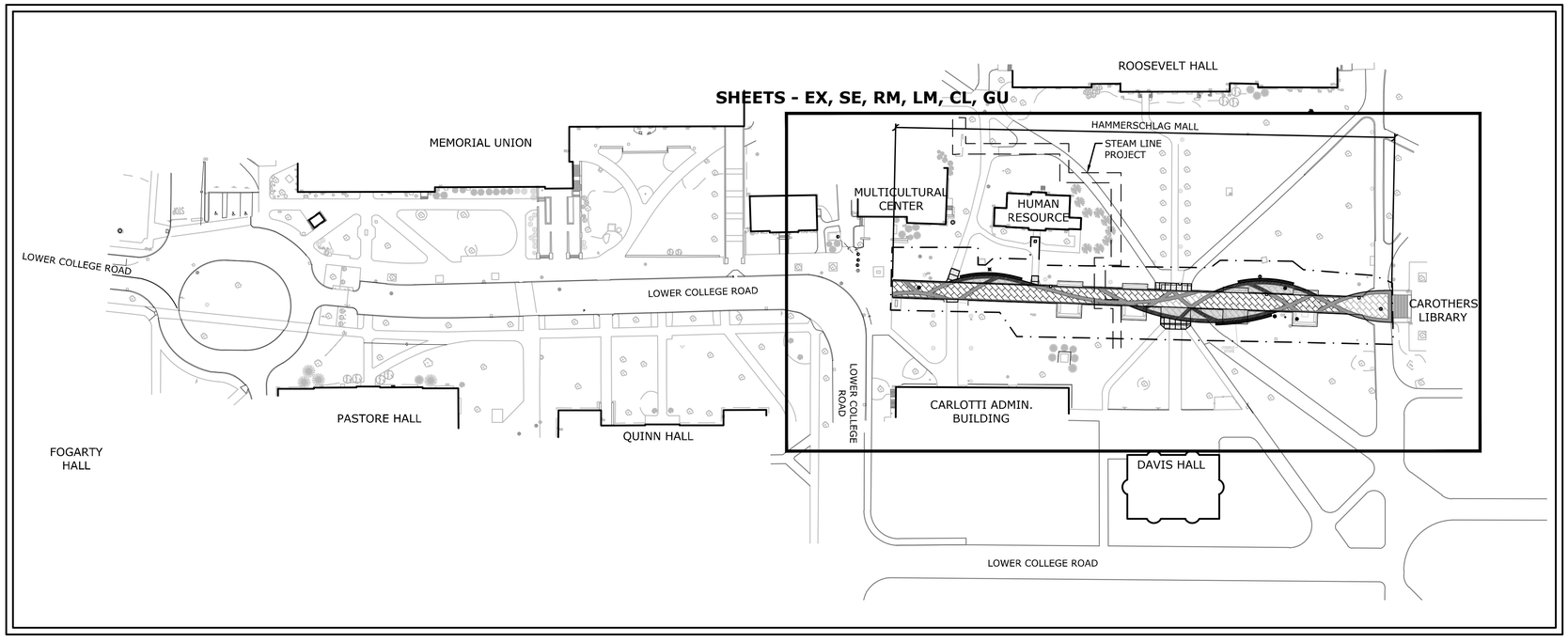
1. PRIOR TO COMMENCEMENT OF WORK A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH UNIVERSITY STAFF, REPRESENTATIVES OF THE CONTRACTOR, AND LANDSCAPE ARCHITECT. AT THIS MEETING, ONE PERSON WILL BE PLACED IN CHARGE OF SEDIMENT AND EROSION CONTROL FOR THE ENTIRE SITE.
2. CONTRACTOR TO STAKE OUT LIMIT OF DISTURBANCE AND VEGETATION TO BE RETAINED. NO DISTURBANCE IS TO TAKE PLACE BEYOND THE LIMITS OF WORK SHOWN.
3. CONTRACTOR TO INSTALL SEDIMENT AND EROSION CONTROLS ALONG THE PERIMETER, AND STABILIZED CONSTRUCTION ENTRANCES. PERIMETER EROSION CONTROL BARRIERS (COMPOSITE FILTER SOCK) SHALL BE INSTALLED IN CONTINUOUS UNINTERRUPTED RUNS AT THE LOCATIONS INDICATED ON THE PLANS AND MAINTAINED IN EFFECTIVE CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION.
4. CLEAR AND GRUB SITE AND STOCKPILE TOPSOIL. PLACE COMPOSITE FILTER SOCK AROUND STOCKPILES. ALL STOCKPILES SHALL BE LOCATED WITHIN THE LIMITS OF DISTURBANCE.
5. INITIATE DEMOLITION OPERATIONS AFTER ALL COMPOSITE FILTER SOCKS, TREE PROTECTION AND INLET PROTECTION ARE INSTALLED.
6. INSTALL SEAT WALLS, PAVEMENTS, AND ADJUST UTILITY COVERS TO PROPOSED GRADES.
7. SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER, OR BI-MONTHLY IF NO RAINFALL EVENT OCCURS. ALL CONTROLS SHALL BE MAINTAINED IN ACCORDANCE WITH THE RIDOT STANDARD SPECIFICATIONS AND THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

OPERATION AND MAINTENANCE PLAN (POST-CONSTRUCTION)

1. THE DRAINAGE SYSTEM AND ALL ASSOCIATED STRUCTURES SHOULD BE INSPECTED AND SEDIMENT REMOVED PRIOR TO FINAL PUNCH LIST. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED LOCATION.
2. CATCH BASINS SHALL BE INSPECTED TWICE ANNUALLY AND AFTER ANY SPILLAGE OF OIL, GAS, OR OTHER CONTAMINANT SPILLS IN THE PROJECT AREA. SUBSEQUENT TO CONTAMINANT SPILLS, THE CATCH BASINS SHALL BE CLEANED IMMEDIATELY AND THE CONTENTS DISPOSED OF AT AN APPROVED OFF-SITE LOCATION.
3. A VEGETATIVE OR IMPROVED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCEDURES.
4. STABILIZATION OF DISTURBED AREAS SHALL BE ACHIEVED WITHIN 14 DAYS OF FINAL GRADING. PLANTING OF GRASS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
5. A LOG OF ALL INSPECTION AND CLEANING SHALL BE MAINTAINED BY THE CONTRACTOR AND BE AVAILABLE FOR INSPECTION.
6. AFTER THE COMPLETION OF THE ENTIRE PROJECT TO THE SATISFACTION OF THE URI OFFICE OF CAPITAL PROJECTS (OCP). ALL MAINTENANCE OF THE THE DRAINAGE SYSTEM SHALL THEN BE THE RESPONSIBILITY OF THE UNIVERSITY OF RHODE ISLAND OR THEIR APPOINTED AGENTS.
7. URI FACILITIES SHALL BE RESPONSIBLE FOR ALL REPAIRS, REPLACEMENTS, AND OTHER WORK NECESSARY TO MAINTAIN THE PROPER FUNCTIONING OF STORMWATER MANAGEMENT FACILITIES. ANY REQUIRED REPAIR AND/OR REPLACEMENT OF DRAINAGE STRUCTURES OR FACILITIES SHALL BE PERFORMED PROMPTLY TO ENSURE PROPER FUNCTIONING OF THE SYSTEM.
8. THE CONTRACTOR MUST REPAIR AND OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE (1) CALENDAR YEAR AND SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE OWNER.

LEGEND

EXISTING		PROPOSED
70	MAJOR CONTOUR	70
68	MINOR CONTOUR	68
× 70.5	SPOT GRADE	+70.5
	TREE LINE	
	STONEWALL	
	DECIDUOUS TREE	
	CONIFEROUS TREE	
	SHRUB	
	SHRUB	
CR	CURB RAMP	
DWS	DETECTABLE WARNING SYSTEM	
LA	LANDSCAPED AREA	
	GUY WIRE	
RD	ROOF DRAIN	
ER	ELECTRIC RISER	
	LIGHT POLE	
	HYDRANT	
	WATER METER	
WG	WATER VALVE	WV
GG	GAS VALVE	GV
CB	CATCH BASIN	
DMH	DRAIN MANHOLE	D
SMH	SANITARY MANHOLE	S
TMH	TELEPHONE MANHOLE	T
EMH	ELECTRIC MANHOLE	
CO	CLEAN OUT	
	MANHOLE/YARD DRAIN/ AREA DRAIN	
S S S	SANITARY SEWER WITH MANHOLE	SAN
	STORM DRAIN WITH CATCH BASIN	
W	WATER MAIN	
DW	DOMESTIC WATER	
FP	FIRE PROTECTION WATER	
G	GAS MAIN	
E	ELECTRIC LINE	
ETC	ELECTRIC, TELEPHONE, CABLE	
	UTILITY POLE	
	SIGN	
	IRON PIPE	
	MONUMENT	
	EDGE OF PAVEMENT WITH CURB	
	BRICK WALL	
	SEAT WALL	
	SIDEWALK	
	CONTRACT LIMIT LINE	
	BOLLARD	
	GUARD RAIL	
	PICKET FENCE	
	CHAIN LINK FENCE	
X X X X	BARBWIRE FENCE	



CONTEXT MAP

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DESCRIPTION	DATE	BY

INDEX, NOTES, & LEGEND

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	GB	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=60'
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 02 OF 11
SHEET NAME: IN

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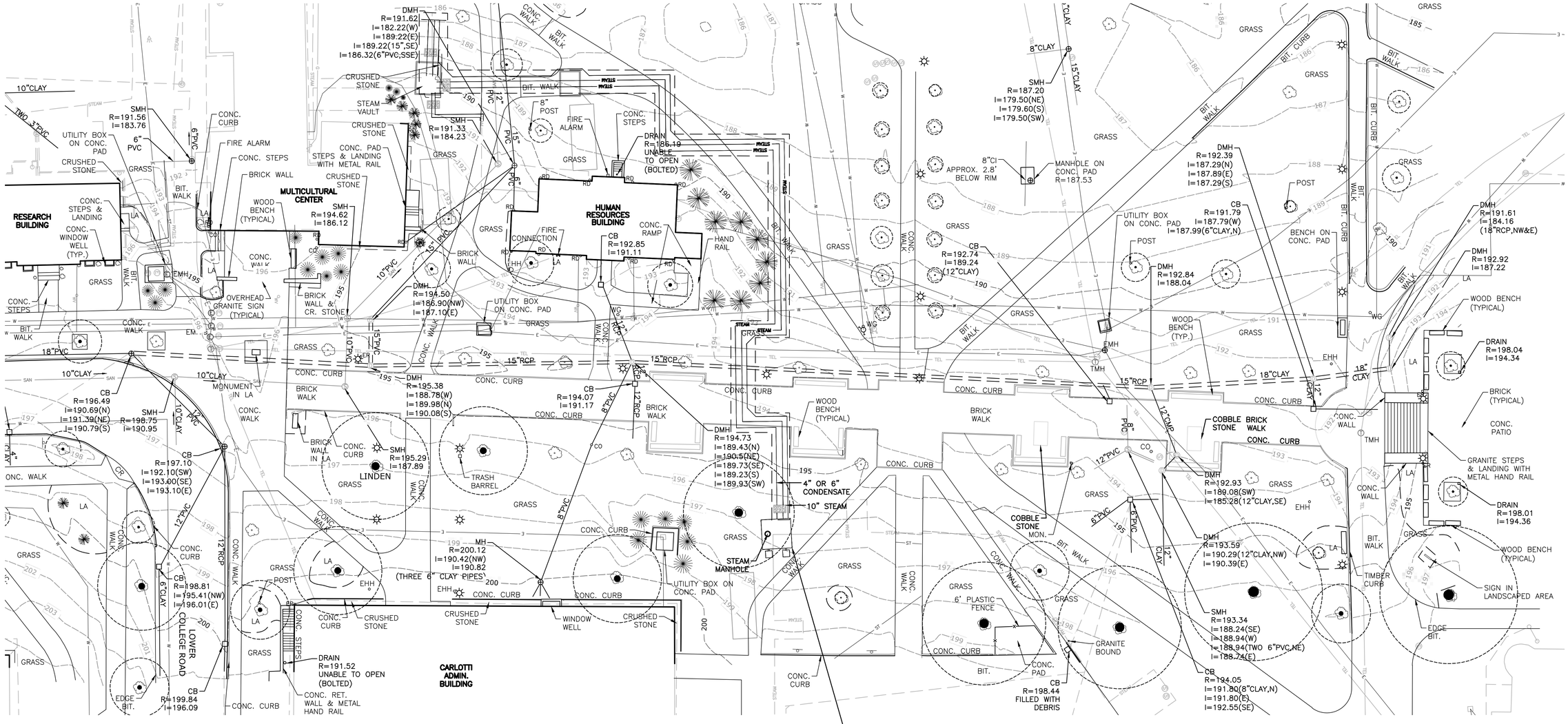

SURVEYOR NOTES:

HORIZONTAL DATUM: NAD '83, RI STATE PLANE COORDINATES

VERTICAL DATUM: NAVD 1988

LOCATION OF UNDERGROUND UTILITIES IS BASED ON AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE. ALL UTILITIES MAY NOT BE SHOWN. DIG SAFE SHOULD BE CONTACTED 72 HOURS PRIOR TO ANY EXCAVATION.

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DESCRIPTION	DATE	BY

EXISTING CONDITIONS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'

DATE: JANUARY14, 2019

PROJECT NO.: 6372-01

SHEET NO.: 03 OF 11

SHEET NAME: EX

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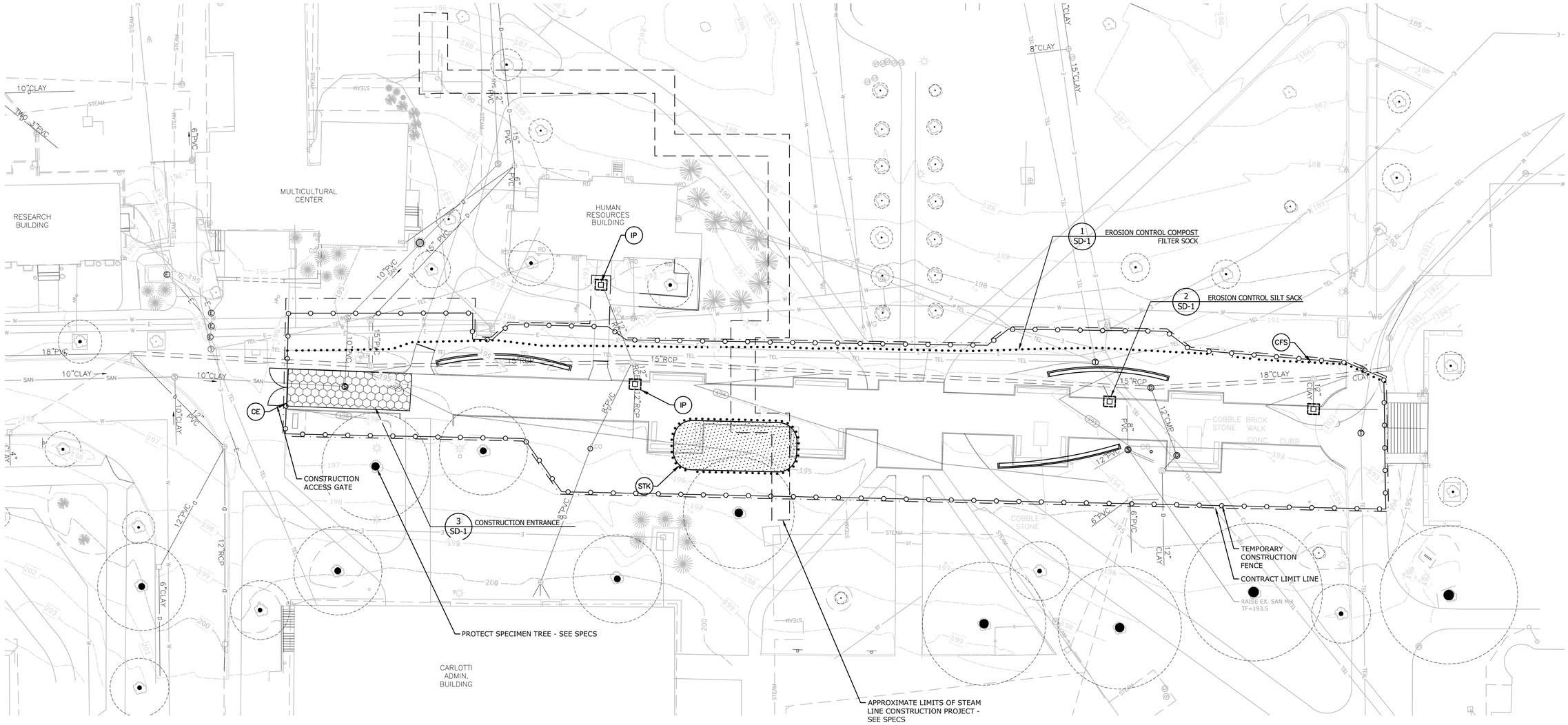

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" - AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1.PURPOSE AND DESCRIPTION OF PROJECT
A.) THE CONSTRUCTION OF WALKWAYS, WALLS AND LANDSCAPE IMPROVEMENTS.
B.) DISTURBED AREA: ±0.48 AC.

2.IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
B.) PROTECTION OF ONSITE DRAINAGE SYSTEMS

EROSION CONTROL LEGEND

- CE — CONSTRUCTION ENTRANCE (50 L.F. MIN.)
- CFS — COMPOSITE FILTER SOCK
- IP — INLET PROTECTION
- STK — SOIL STOCKPILE SURROUNDED WITH COMPOSITE FILTER SOCK
- CONTRACT LIMIT LINE
- TEMPORARY CONSTRUCTION FENCE

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SEDIMENT & EROSION CONTROL PLAN

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 04 OF 11
SHEET NAME: SE

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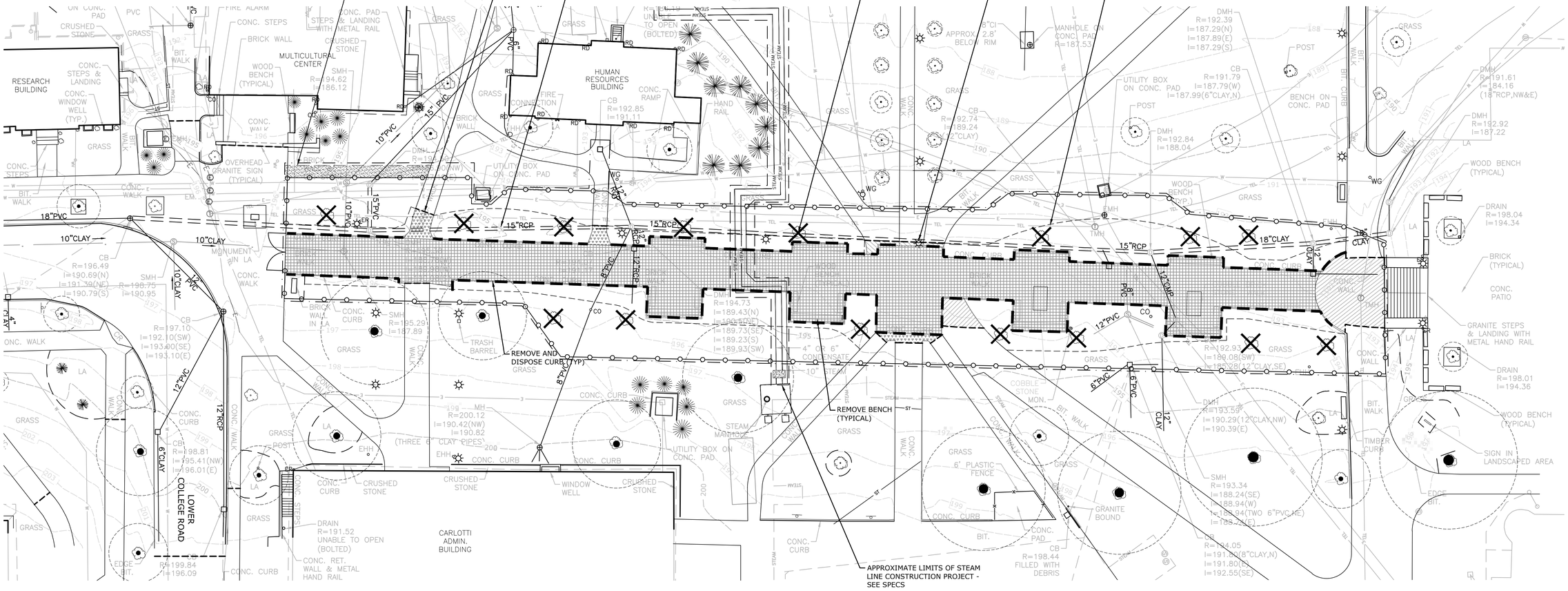

REMOVALS NOTES:

1. CONTRACTOR TO REMOVE BRICK AND GRANITE COBBLE STONE AND STOCKPILE IN A LOCATION PER THE DIRECTION OF THE URI OCP. CONTRACTOR TO TAKE CARE TO NOT DAMAGE BRICK AS IT IS INTENDED FOR REUSE. BRICK TO BE REUSED AS INDICATED ON THE PLANS.
2. REMOVE AND DISPOSE ALL CURBING ASSOCIATED WITH SIDEWALK REMOVAL.
3. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "DIG SAFE", 1-888-344-7233. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE URI OCP FOR RESOLUTION.
4. INFORMATION SHOWN ON THIS DRAWING IS TO BE USED FOR REFERENCE ONLY. THE LOCATION, SIZE AND ELEVATIONS OF UTILITIES AND STRUCTURES AND THE NATURE OF THEIR CONTENTS SHALL BE CONFIRMED IN THE FIELD PRIOR TO DEMOLITION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE URI OCP PRIOR TO DEMOLITION.
5. THE INTENT OF THIS DRAWING IS TO IDENTIFY SPECIFIC DEMOLITIONS. HOWEVER, THE GRAPHIC LEGEND MAY NOT BE A COMPREHENSIVE LIST OF ALL SITE REMOVALS.
6. CONTRACTOR TO COORDINATE ALL PROPOSED UTILITY WORK WITH APPROPRIATE UTILITY COMPANIES. THIS WORK SHALL BE DONE AT THE CONTRACTORS EXPENSE UNLESS OTHERWISE PROVIDED FOR IN THE SPECIFICATIONS. THE CONTRACTOR SHALL REMOVE OR ABANDON THE EXISTING UTILITY SERVICES AS DIRECTED AND TO THE SATISFACTION OF EACH INDIVIDUAL UTILITY COMPANY.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE TIMING OF THE REMOVAL OF EXISTING UTILITIES, PAVEMENTS, AND OTHER INFRASTRUCTURE.
8. ALL UNDERGROUND UTILITIES NOT SHOWN TO BE REMOVED SHALL HAVE SERVICE MAINTAINED AND SHALL BE PROTECTED DURING CONSTRUCTION.
9. WORK SHALL NOT COMMENCE UNTIL APPROVED IN WRITING BY THE URI OCP
10. CONTRACTOR IS RESPONSIBLE TO OBTAIN PERMITS REQUIRED AND COMPLY WITH ALL REGULATIONS IN THE DEMOLITION AND REMOVAL OF THE DESIGNATED STRUCTURES.
11. INSTALL ALL SEDIMENT AND EROSION CONTROLS PRIOR TO BEGINNING DEMOLITION WORK.
12. EXTENT OF PAVEMENT TO BE REMOVED IS SHOWN ON PLAN. CONTRACTOR SHALL PROTECT AREAS OF PAVEMENT IDENTIFIED TO REMAIN.
13. ANY MATERIALS DEEMED UNSUITABLE BY THE URI OCP SHALL BE DISPOSED OF OFF-SITE IN CONFORMANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
14. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES ASSOCIATED WITH THE HANDLING AND DISPOSAL OF ALL MATERIALS.
15. ANY VEGETATION REMOVAL NOT ADDRESSED IN THE PLANS SHALL RECEIVE WRITTEN APPROVAL FROM URI OCP BEFORE ANY VEGETATION IS REMOVED, INCLUDING PRUNING OF TREE CANOPY FOR CONSTRUCTION VEHICLE ACCESS.

REMOVALS LEGEND

- REMOVE CONCRETE SIDEWALK (FULL DEPTH)
- REMOVE BRICK AND COBBLE STONE (FULL DEPTH) STOCKPILE BRICK AND COBBLE STONE
- REMOVE BITUMINOUS WALK (FULL DEPTH)
- STONE SCREENINGS PATH - TEMPORARY ACCESSIBLE ROUTE
- TREE TO BE REMOVED BY OWNER
- CONTRACT LIMIT LINE
- REMOVE EXISTING UTILITY STRUCTURES
- TEMPORARY CONSTRUCTION FENCE
- LIMIT OF EXCAVATION
- SAWCUT PAVEMENT
- REMOVE AND DISPOSE CURB

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SITE PLAN - REMOVALS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	JJM	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 05 OF 11
SHEET NAME: RM

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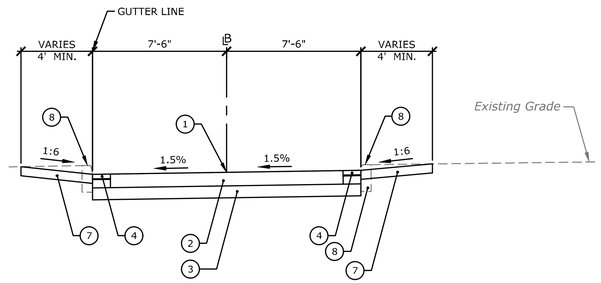
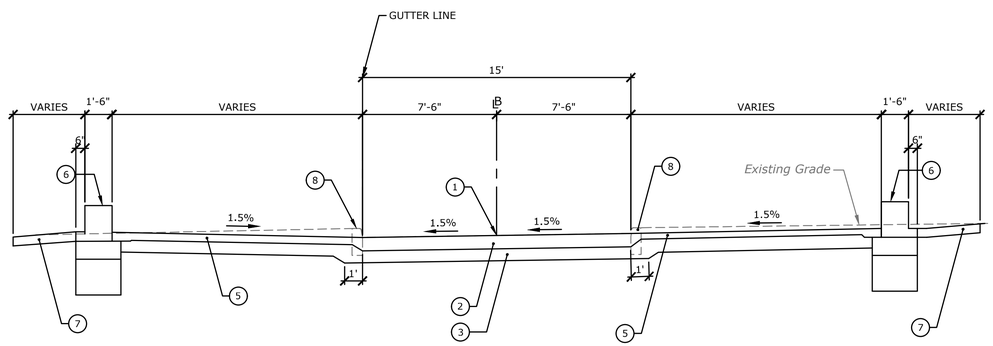


1 TYPICAL CROSS SECTION

NOT TO SCALE

P-SC-6372.01-01



2 TYPICAL CROSS SECTION AT PEDESTRIAN BUMPOUTS

NOT TO SCALE

P-SC-6372.01-02

LEGEND

1. CONSTRUCTION BASELINE
2. * 9" CONCRETE DRIVEWAY
3. 8" COMPACTED GRANULAR FILL
4. CLAY UNIT PAVER
5. * 5" CONCRETE SIDEWALK
6. FIELDSTONE SEATWALL
7. 6" TOPSOIL AND SEED
8. EXISTING CURBING TO BE REMOVED

* PAVEMENT SECTION MAY CONTAIN FULL DEPTH COLORIZED CONCRETE BANDING. SEE SHEET LM FOR EXACT LOCATION

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TYPICAL CROSS SECTIONS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	GB	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1/4" = 1'-0"

DATE: JANUARY14, 2019

PROJECT NO.: 6372-01

SHEET NO.: 06 OF 11

SHEET NAME: TYP

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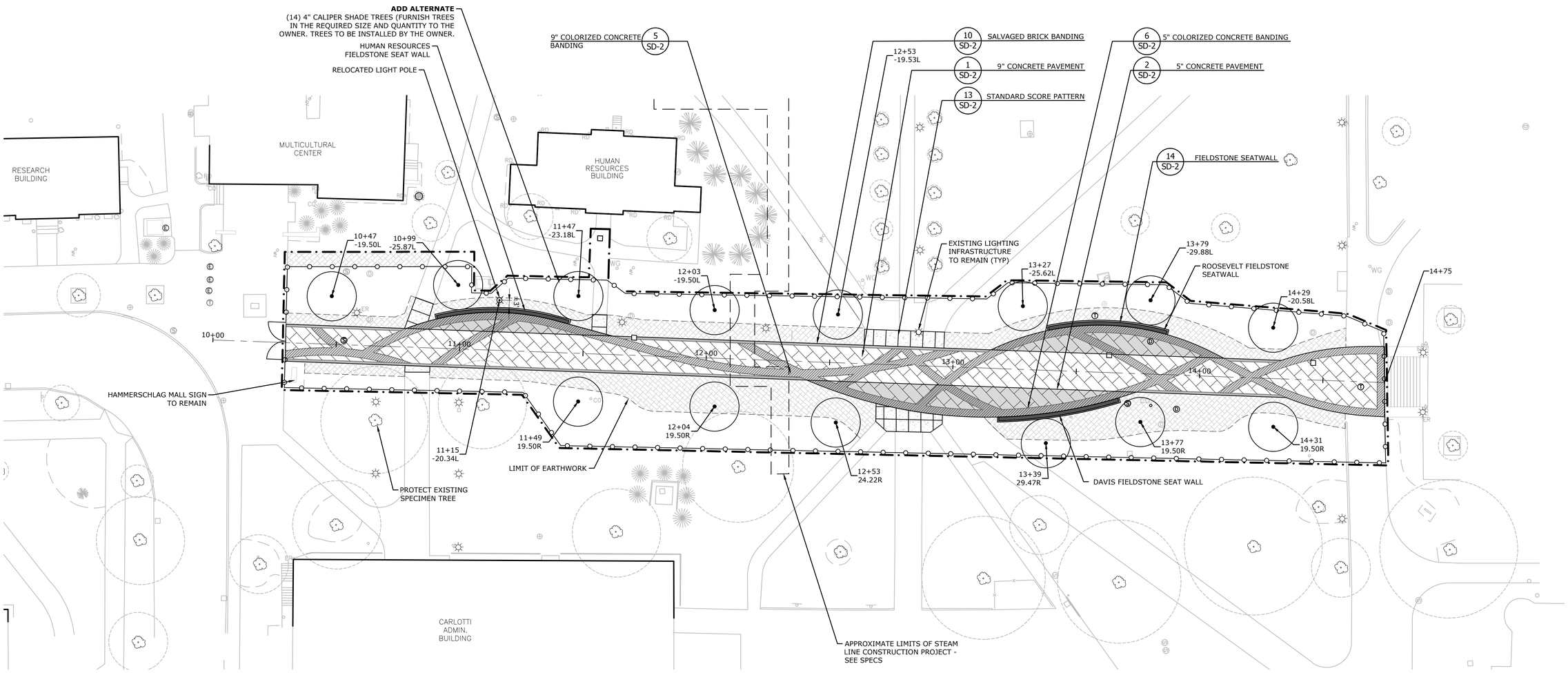

PLANTING NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING WALL FOUNDATION.
2. SEED ALL DISTURBED AREAS TO LAWN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF SCREENED TOPSOIL, AS SPECIFIED, FOR ALL LAWN AREAS. AS NOTED ON THE DETAILS, SUBGRADE BENEATH PROPOSED LAWN AREAS SHALL BE LOOSENED OR SCARIFIED TO A MINIMUM DEPTH OF 12 INCHES, EXCEPT IN AREAS OF SURFACE TREE ROOTS, WHERE NO SCARIFICATION SHALL BE DONE.
3. ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE URI OCP PRIOR TO AND AFTER DELIVERY TO THE SITE.
4. ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
5. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER SEEDING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE URI OCP AT THE END OF THE WARRANTY PERIOD. MAINTENANCE SHALL INCLUDE WATERING, SEE SPECS FOR MAINTENANCE REQUIREMENTS
6. TAKE NOTE TO PROTECT ROOT ZONES OF EXISTING TREES TO REMAIN DURING CONSTRUCTION AS SHOWN ON PLANS. SEE SPECS.

LAYOUT NOTES

1. MILONE AND MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR MAPS AND DATA THAT HAVE BEEN PREPARED AND SUPPLIED BY OTHERS.
2. CONCRETE SIDEWALKS, ENTRY AREAS, AND TERRACES SHALL INCORPORATE EXPANSION JOINTS, SCORE JOINTS, AND CONSTRUCTION JOINTS PER THE SPECIFICATIONS AND DETAILS, TYPICALLY NO MORE THAN 144 SQUARE FEET SHALL CONSTITUTE A CONTIGUOUS SLAB. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR JOINTING PERTAINING TO THESE DISCIPLINES.
3. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE URI OCP.

MATERIALS NOTES

1. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO UNIVERSITY OF RHODE ISLAND REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ADDENDUMS.
2. COLORIZED CONCRETE BANDING SHALL BE COLOR: CHARCOAL C-24 AS MANUFACTURED BY SIKA CORPORATION OR APPROVED EQUIVALENT.
3. CONTRACTOR TO REUSE BRICK THAT IS NOT CRACKED, CHIPPED, BROKEN OR DAMAGED IN ANY WAY AND PER DISCRETION OF THE OCP.
4. CONTRACTOR TO POWERWASH BRICK AFTER IT IS SET PER CONTRACT REQUIREMENTS AND PRIOR TO SWEEPING JOINTS.

MATERIALS LEGEND

- 5" CONCRETE PAVEMENT - ANGLED SCORE PATTERN
- 9" CONCRETE PAVEMENT - ANGLED SCORE PATTERN
- 9" COLORIZED CONCRETE BANDING
- 5" COLORIZED CONCRETE BANDING
- FIELDSTONE SEAT WALL
- LAWN ESTABLISHMENT
- BRICK BANDING
- 5" CONCRETE PAVEMENT - STANDARD CONCRETE SCORE PATTERN

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	COMMENTS
QC	14	Quercus coccinea	Scarlet Oak	4.0" Cal.	B&B	6`-8" MIN. BRANCHING HEIGHT, SPECIMEN QUALITY

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SITE PLAN - LANDSCAPING & MATERIALS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL

45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'

DATE: JANUARY14, 2019

PROJECT NO.: 6372-01

SHEET NO.: 07 OF 11

SHEET NAME: LM

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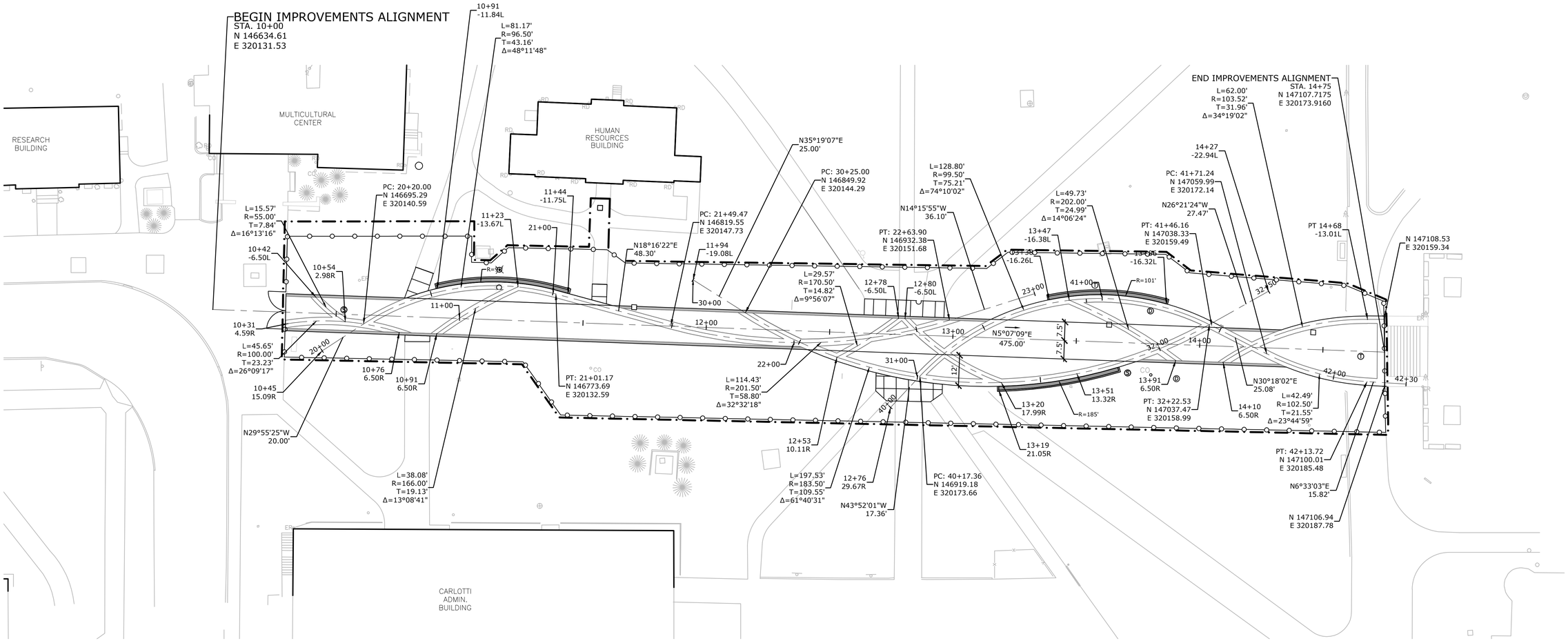

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SITE PLAN - CONSTRUCTION LAYOUT

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL

45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'

DATE: JANUARY14, 2019

PROJECT NO.: 6372-01

SHEET NO.: 08 OF 11

SHEET NAME: CL

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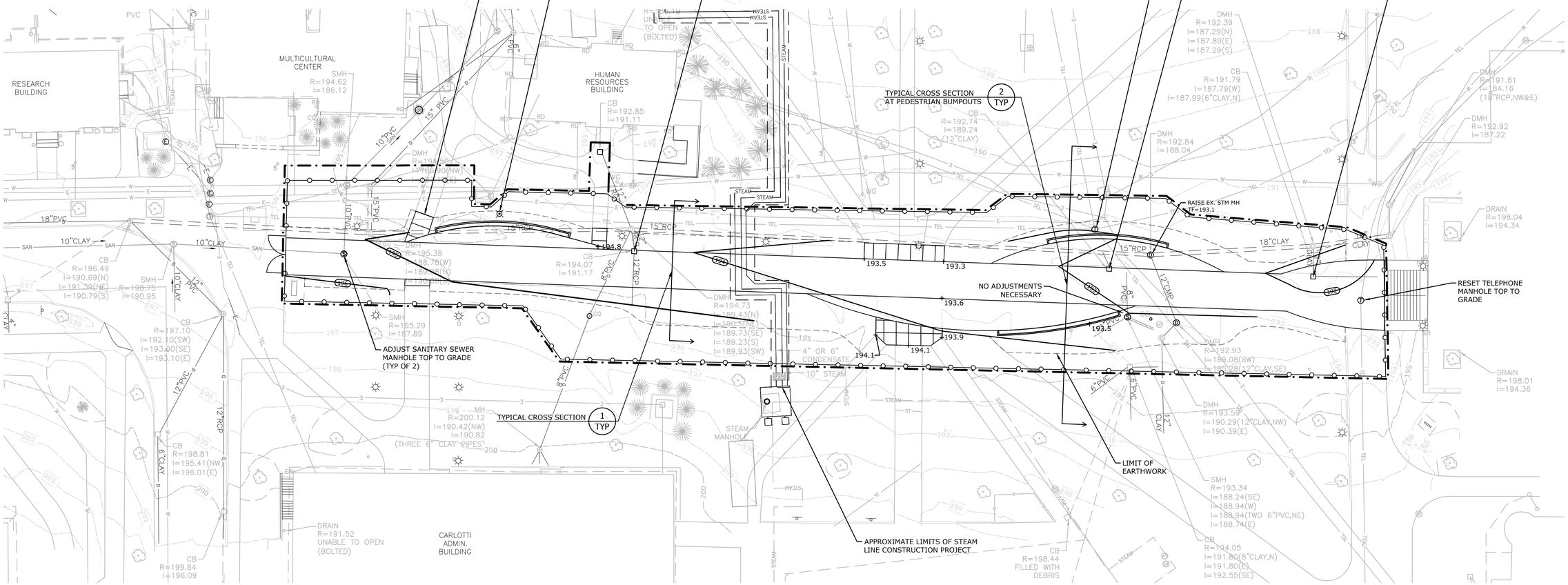

GRADING & UTILITY NOTES:

1. CONTRACTOR TO COORDINATE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS WITH CONCURRENT STEAMLINE RECONSTRUCTION PROJECT.
2. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
3. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
4. TAKE NOTE TO PROTECT ROOT ZONES OF EXISTING TREES DURING CONSTRUCTION AS SHOWN ON PLANS.

GRADING LEGEND

×70.5	EXISTING SPOT ELEVATION
+70.5	PROPOSED SPOT ELEVATION
——70——	EXISTING CONTOUR
—124—	PROPOSED CONTOUR
—·—·—	CONTRACT LIMIT LINE
—o—o—o—	TEMPORARY CONSTRUCTION FENCE
— — — —	LIMIT OF EARTHWORK

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SITE PLAN - GRADING AND UTILITIES

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

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DESIGNED	DRAWN	CHECKED

SCALE: 1"=20'
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 09 OF 11
SHEET NAME: GU

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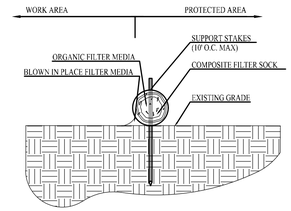
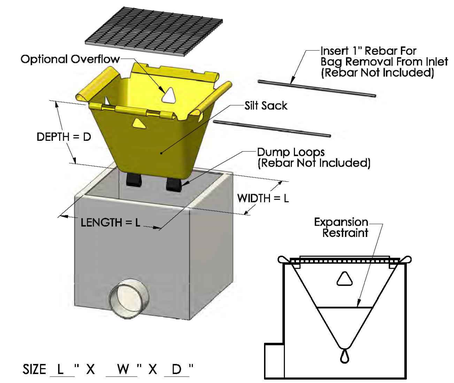


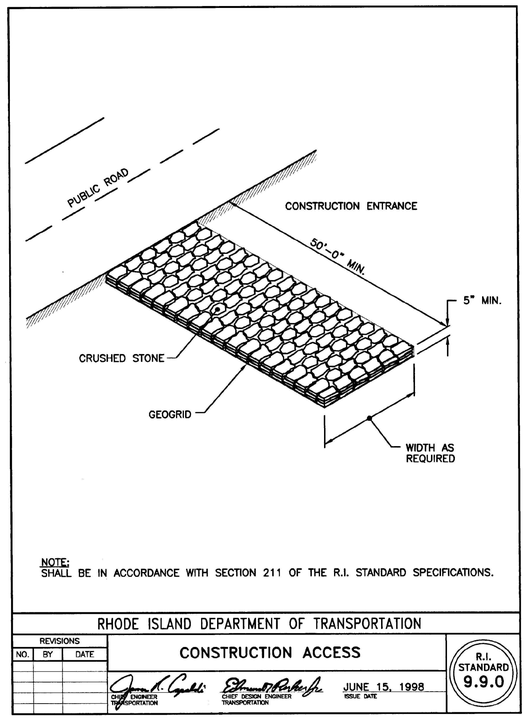
1 EROSION CONTROL COMPOST FILTER SOCK

NOT TO SCALE P-SC-6372.01-047



2 EROSION CONTROL SILT SACK

NOT TO SCALE P-SC-6372.01-58



3 CONSTRUCTION ENTRANCE

NOT TO SCALE P-SC-6372.01-79

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DESCRIPTION	DATE	BY

SITE DETAILS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: NOT TO SCALE
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 10 OF 11
SHEET NAME: SD-1

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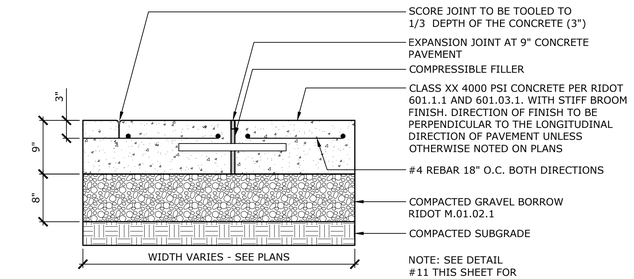
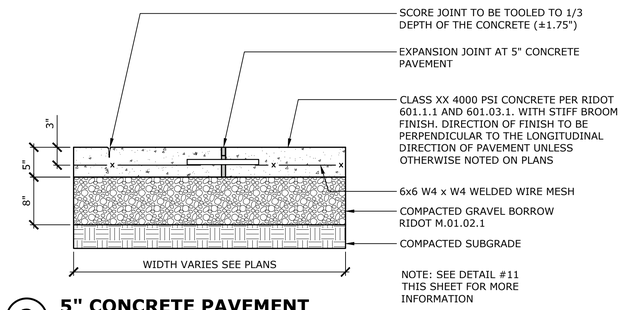


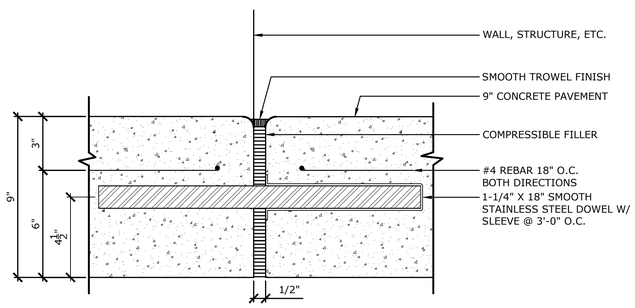
1 9" CONCRETE PAVEMENT

NOT TO SCALE P-SC-6372.01-40



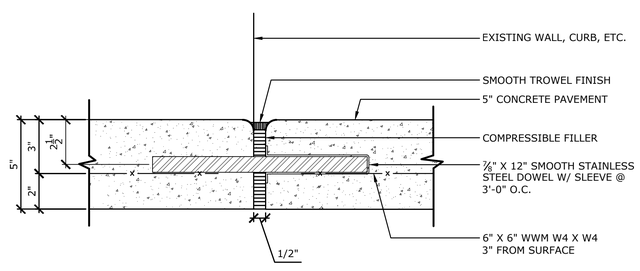
2 5" CONCRETE PAVEMENT

NOT TO SCALE P-SC-6372.01-03



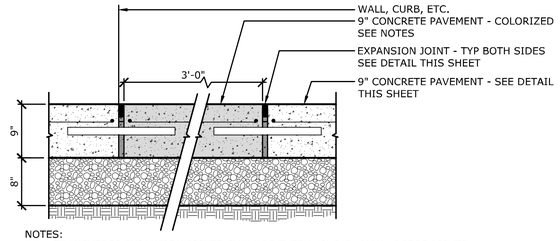
3 EXPANSION JOINT AT 9" CONCRETE PAVEMENT

NOT TO SCALE P-SC-6372.01-80



4 EXPANSION JOINT AT 5" CONCRETE PAVEMENT

NOT TO SCALE P-SC-6372.01-020

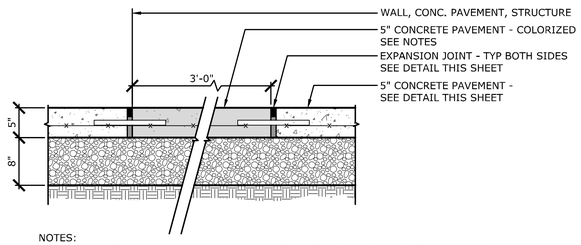


NOTES:

1. TRANSVERSE EXPANSION JOINTS SHALL BE EVERY 40' O.C. MAX. SCORE JOINTS EVERY 8' O.C.
2. CONCRETE AND REINFORCING PER 9" CONCRETE PAVEMENT DETAIL.
3. FULL DEPTH INTEGRAL COLOR TINT TO BE ADDED TO CONCRETE PER SPECIFICATIONS AS MANUFACTURED BY SIKA CORPORATION OR APPROVED EQUIVALENT:
   CONTACT:
   SIKA SCOFIELD SALES
   4155 SCOFIELD ROAD,
   DOUGLASVILLE, GA 30134
   800-800-9900
   WWW.SCOFIELD.COM
4. CONTRACTOR SHALL INSTALL A 10'x10' SAMPLE PANEL FOR APPROVAL BY URI OFFICE OF CAMPUS PLANNING. SAMPLE PANEL SHALL DEMONSTRATE INTEGRAL COLOR, COLOR HARDENER, FLASHING, AND TEXTURE. APPROVED PANEL SHALL BE MAINTAINED AND PROTECTED FOR THE DURATION OF THE PROJECT. SEE SPECIFICATIONS FOR MORE INFORMATION.

5 9" COLORIZED CONCRETE BANDING

NOT TO SCALE P-SC-6372.01-75

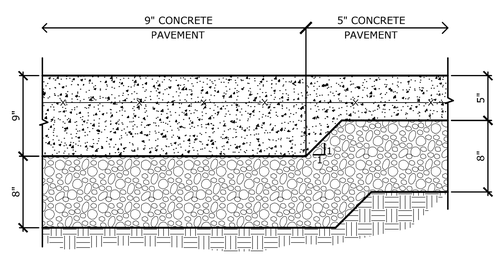


NOTES:

1. TRANSVERSE EXPANSION JOINTS SHALL BE EVERY 40' O.C. MAX. SCORE JOINTS EVERY 8' O.C.
2. CONCRETE AND REINFORCING PER 5" CONCRETE PAVEMENT DETAIL.
3. FULL DEPTH INTEGRAL COLOR TINT TO BE ADDED TO CONCRETE PER SPECIFICATIONS AS MANUFACTURED BY SIKA CORPORATION OR APPROVED EQUIVALENT:
   CONTACT:
   SIKA SCOFIELD SALES
   4155 SCOFIELD ROAD,
   DOUGLASVILLE, GA 30134
   800-800-9900
   WWW.SCOFIELD.COM
4. CONTRACTOR SHALL INSTALL A 10'x10' SAMPLE PANEL FOR APPROVAL BY URI OFFICE OF CAMPUS PLANNING. SAMPLE PANEL SHALL DEMONSTRATE INTEGRAL COLOR, COLOR HARDENER, FLASHING, AND TEXTURE. APPROVED PANEL SHALL BE MAINTAINED AND PROTECTED FOR THE DURATION OF THE PROJECT. SEE SPECIFICATIONS FOR MORE INFORMATION.

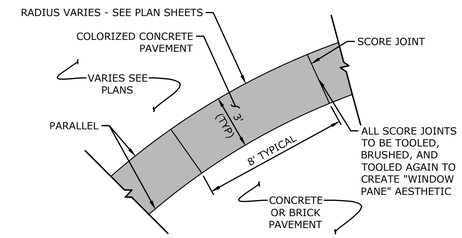
6 5" COLORIZED CONCRETE BANDING

NOT TO SCALE P-SC-6372.01-77



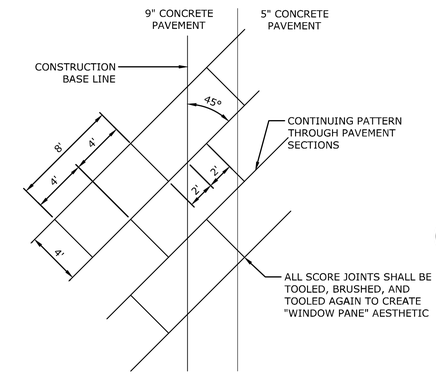
7 9" TO 5" CONCRETE PAVEMENT TRANSITION

NOT TO SCALE P-SC-6372.01-76



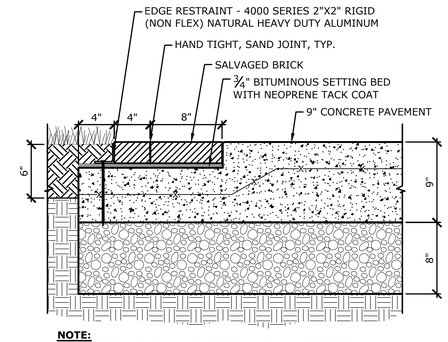
8 3 FT WIDE BANDING DETAIL

NOT TO SCALE P-SC-6372.01-72



9 CONCRETE PAVEMENT SCORING PATTERN

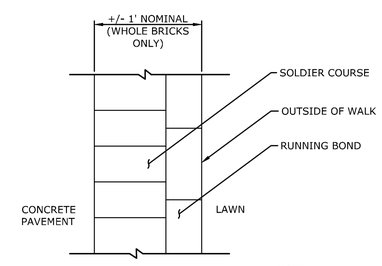
NOT TO SCALE P-SC-6372.01-71



NOTE:
EDGE RESTRAINT AS MANUFACTURED BY CURV-RITE® OR APPROVED EQUIVALENT 1-800-366-2878

10 SALVAGED BRICK BANDING

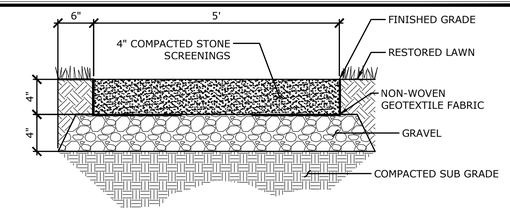
NOT TO SCALE P-SC-6372.01-74



NOTE:
REUSE STOCKPILED BRICKS FROM PROJECT AREA

11 BRICK PAVING PATTERN

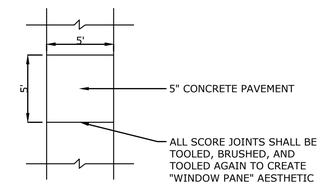
NOT TO SCALE P-SC-6372.01-73



NOTE: CONTRACTOR TO REMOVE STONEDUST PATH FULL DEPTH AND ESTABLISH LAWN UPON REMOVAL OF TEMPORARY CONSTRUCTION FENCE.

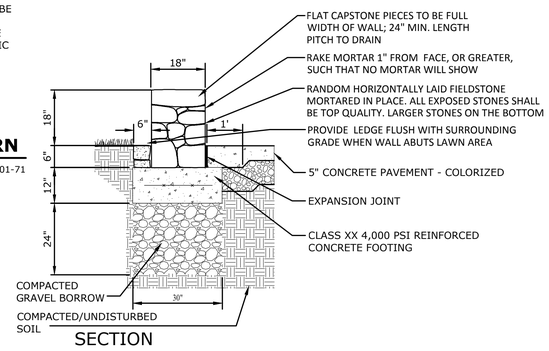
12 STONE SCREENINGS PATH

NOT TO SCALE P-SC-6372.01-04

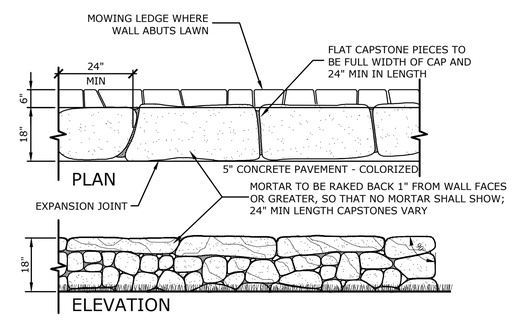


13 STANDARD SCORE PATTERN

NOT TO SCALE P-SC-6372.01-81



SECTION



PLAN

ELEVATION

1. CONTRACTOR TO PROVIDE AT MOCKUP A SAMPLE PANEL OF 6' LONG X 18" HIGH FOR APPROVAL BY URI OFFICE OF CAMPUS PLANNING.

2. SAMPLE PANEL SHALL DEMONSTRATE DESIRED RANDOM FIELD STONE PATTERN PER DETAIL. APPROVED PANEL SHALL BE MAINTAINED AND PROTECTED FOR THE DURATION OF THE PROJECT. SEE SPECIFICATIONS FOR MORE INFORMATION.

14 FIELDSTONE SEATWALL

NOT TO SCALE P-SC-6372.01-036

MILONE & MACBROOM
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CHESHIRE, CT 06410
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DESCRIPTION	DATE	BY

SITE DETAILS

URI KINGSTON CAMPUS PRIORITY IMPROVEMENT PROJECTS
HAMMERSCHLAG MALL
45 UPPER COLLEGE ROAD
KINGSTON, RHODE ISLAND

RRC	BDK	RRC
DESIGNED	DRAWN	CHECKED

SCALE: NOT TO SCALE
DATE: JANUARY14, 2019
PROJECT NO.: 6372-01
SHEET NO.: 11 OF 11
SHEET NAME: SD-2

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