

CITY OF PORTLAND PUBLIC SERVICES DEPARTMENT

CONTRACT DRAWINGS

ANDERSON STREET NEIGHBORHOOD BYWAY PROJECT *PHASE 2 OF 2 - CONTRACT 1 OF 3 SRF IMPROVEMENTS*

BID NUMBER: 1516

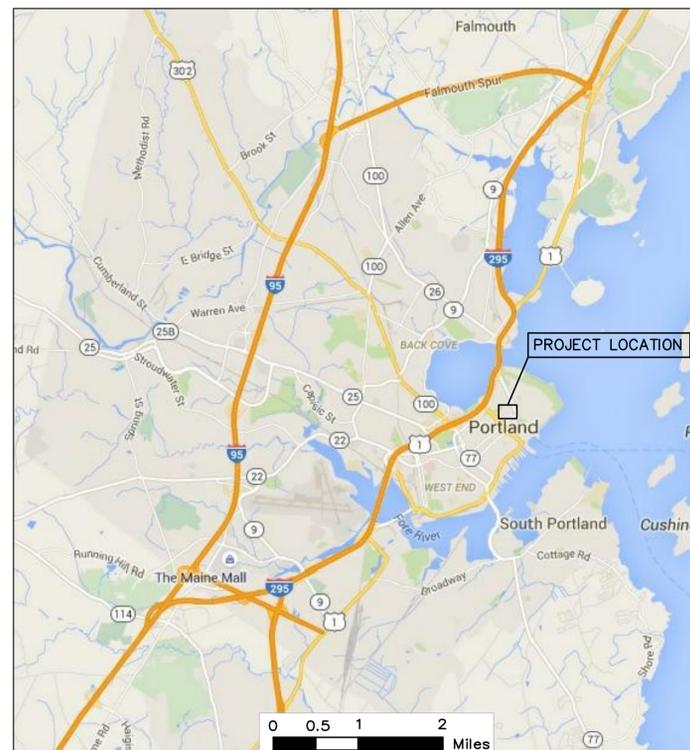
YEAR
APPROVED
2015

CONSTRUCTION PLANS
SEPTEMBER 2015

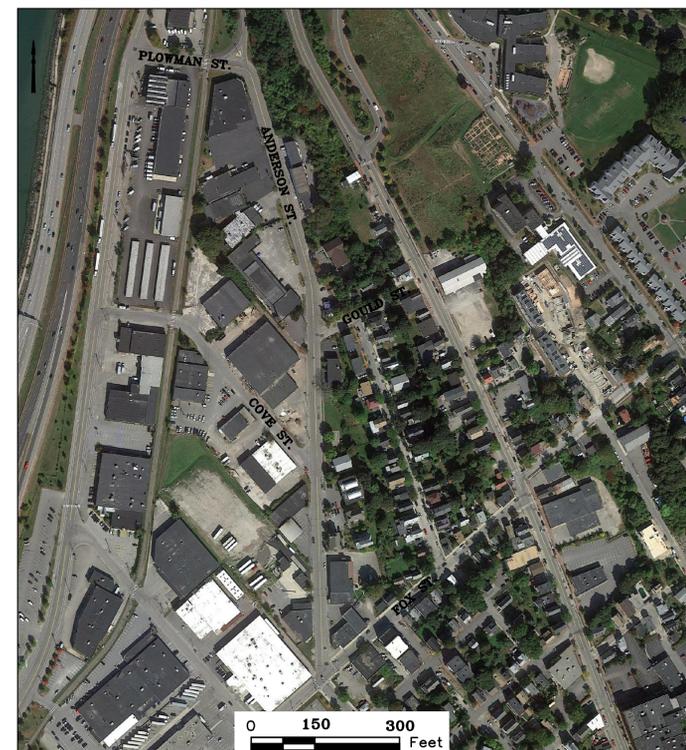
INDEX OF PLANS

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PROJECT LOCATION

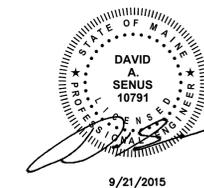


AREA MAP



KATHERINE A. EARLEY
CITY ENGINEER

DATE



9/21/2015

GENERAL NOTES

- SITE AND TOPOGRAPHIC DATA PROVIDED BY CITY OF PORTLAND AND COLLECTED BY MEANS OF A GROUND SURVEY PERFORMED IN 2014.
- VERTICAL DATUM IS REFERENCED TO CITY DATUM WITH ONE FOOT CONTOUR INTERVALS. CITY DATUM IS +0.02 FT NGVD 1929. HORIZONTAL DATUM IS REFERENCED TO STATE PLANE NAD 1983 (FEET), MAINE WEST ZONE.
- SOIL BORING INFORMATION PROVIDED BY NORTHERN TEST BORINGS AS A RESULT OF LEDGE PROBE EXPLORATIONS CONDUCTED IN MAY 2014, REFER TO PROJECT SPECIFICATIONS FOR PROBE LOGS.
- THE UTILITY LOCATIONS SHOWN IN PLAN AND PROFILE ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION BY THE CONTRACTOR. CONTACT THE CITY IMMEDIATELY UPON DISCOVERING ANY CONFLICTS WITH EXISTING AND PROPOSED UTILITY LOCATIONS. NOT ALL EXISTING UTILITIES ARE SHOWN ON PLANS.
- CONTRACTOR SHALL CLEAN AND/OR FLUSH ALL MANHOLES, CATCH BASINS, AND ASSOCIATED PIPING AFTER THE WORK HAS BEEN COMPLETED.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES AND CITY. CONTACTS ARE LISTED IN SPECIFICATIONS. NOTIFY UTILITY COMPANIES WITHIN 48 HOURS OF WORK ACTIVITY ADJACENT TO THOSE UTILITIES.
- CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", TELEPHONE 811, PRIOR TO EXCAVATION.
- RESTORE ALL AREAS DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, GRASS, ETC.). RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, DRIVEWAYS, AND LAWNS DAMAGED BY CONSTRUCTION ACTIVITIES OUTSIDE OF LIMITS OF WORK INDICATED ON THE PLANS SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER. ANY CURB DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND AND SHALL CONFORM TO CITY OF PORTLAND AND MAINE DOT SPECIFICATIONS AT NO ADDITIONAL COST TO OWNER.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE CITY.
- EXISTING FACILITIES (I.E. SIGNS, POLES, LIGHT POSTS, ETC.) SHALL BE REMOVED AND PROTECTED DURING CONSTRUCTION. CITY RETAINS RIGHT TO KEEP ANY AND ALL REMOVED FACILITIES. CONTRACTOR SHALL DISPOSE OF ANY REMOVED FACILITY AT THE REQUEST OF CITY AT CONTRACTOR'S EXPENSE.
- ALL TREES NOT NOTED TO BE REMOVED OR RELOCATED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION.
- ALL WORK WITHIN THE RIGHT OF WAY OF CITY STREETS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY TRAFFIC ENGINEER. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE TRAFFIC ENGINEER AT LEAST 7 DAYS BEFORE BEGINNING CONSTRUCTION IN ANY STREET. THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE TRAFFIC ENGINEER, WHO MAY ATTACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN. WORK SHALL NOT BEGIN UNTIL THE PLAN IS APPROVED BY THE TRAFFIC ENGINEER.
- DO NOT PARK, IMPEDE ACCESS TO, OR STORE EQUIPMENT ON ADJACENT CITY OR PRIVATELY OWNED LOTS, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY CITY AND/OR LAND OWNER.
- COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
- RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. NO TRENCH SHALL BE LEFT OPEN DURING NON-WORKING HOURS. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS. PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN A CITY STREET OPENING PERMIT BEFORE BEGINNING CONSTRUCTION. THE FEE FOR THIS PERMIT WILL BE WAIVED BY THE CITY. THE CONTRACTOR WILL ALSO BE REQUIRED TO HAVE A CURRENT EXCAVATOR'S LICENSE IN THE CITY. THE EXCAVATOR'S LICENSE FEE WILL NOT BE WAIVED BY THE CITY.
- ALL WORK ASSOCIATED WITH THE PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES VI, VII, AND IX OF CHAPTER 25--STREETS, SIDEWALKS, AND OTHER PUBLIC PLACES OF THE CITY OF PORTLAND CODE OF ORDINANCES.
- ALL SEWER CONSTRUCTION IN THE PUBLIC WAY SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLE II OF CHAPTER 24--SEWERS OF THE CITY OF PORTLAND CODE OF ORDINANCES.
- THE CITY OF PORTLAND ENGINEERING DIVISION REQUIRES THAT UPON COMPLETION OF CONSTRUCTION, A COMPLETE SET OF "RECORD" DRAWINGS THAT REFLECT ANY AND ALL MODIFICATIONS TO THE SANITARY SEWER SYSTEM, STORM SEWER SYSTEM AND ANY OTHER UTILITY INSTALLATIONS OR ALTERATIONS WITHIN THE PROJECT LIMITS BE SUBMITTED TO THE DIVISION. THESE DRAWINGS SHALL BE SUBMITTED IN BOTH DIGITAL AND HARD COPY FORMAT AS DEFINED IN THE SPECIFICATIONS PRIOR TO PAYMENT OF FINAL RETAINAGE.
- ALL SEWER SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING SERVICE LATERALS AND PROVIDE CONNECTIONS AS REQUIRED TO COMPLETE WORK. EXISTING SEWER SERVICE LOCATIONS DEPICTED IN PROFILE REPRESENT APPROXIMATE SERVICE WYE LOCATIONS. IN THE CASE THAT A PROPOSED SEWER SERVICE WYE DIFFERS FROM THE EXISTING LOCATION, THE PROPOSED WYE LOCATION IS DEPICTED IN PROFILE.
- ALL WATER SERVICES ARE APPROXIMATE AS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING WATER SERVICES AND RELOCATE AS REQUIRED TO COMPLETE WORK. CONTRACTOR SHALL COORDINATE WORK WITH THE CITY OF PORTLAND, PORTLAND WATER DISTRICT, AND PROPERTY OWNERS. REFER TO PORTLAND WATER DISTRICT PLANS FOR REPLACEMENT OF WATERMANS AND SERVICES.
- GAS MAIN AND SERVICES TO BE REPLACED BY UNITIL PRIOR TO CONSTRUCTION. CONTRACTOR TO PROTECT GAS UTILITIES DURING CONSTRUCTION. COORDINATE WITH UNITIL AND PROPERTY OWNER FOR ANY MODIFICATIONS TO SERVICES.
- WORK IS PROPOSED IN CLOSE PROXIMITY TO EXISTING UTILITIES. PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION SHALL BE INCIDENTAL TO THE PAY ITEM UNDER WHICH WORK TO INSTALL SAID UTILITY IS PERFORMED.
- FOR TEST PIT LOCATIONS SHOWN ON PLANS, FIELD VERIFY UTILITY ELEVATIONS PRIOR TO ORDERING CATCH BASIN & MANHOLE STRUCTURES. NOTIFY ENGINEER OF ANY CONFLICTS.
- CONTACT CITY OF PORTLAND ARBORIST AND ENGINEER PRIOR TO CUTTING ROOTS, TRIMMING BRANCHES, OR DISTURBING TREES THAT NOT HAVE BEEN NOTED FOR REMOVAL ON THE PLANS.
- DEMOLITION (REMOVAL AND DISPOSAL) OF EXISTING PIPE WITHIN 4 FEET OF THE HORIZONTAL LIMITS OF EXCAVATION FOR PROPOSED PIPES OR STRUCTURES SHALL BE INCIDENTAL TO THE PAY ITEM FOR WHICH THE PROPOSED PIPE IS INSTALLED. NO ADDITIONAL PAYMENT SHALL BE MADE. REFER TO SUPPLEMENTAL SPECIFICATION SECTION 202.
- DEMOLITION (REMOVAL AND DISPOSAL) OF EXISTING MANHOLE OR CATCH BASIN IN WHICH THE CENTER OF THE EXISTING STRUCTURE IS WITHIN 8 FEET OF THE CENTER OF THE NEW STRUCTURE SHALL BE INCIDENTAL TO THE PAY ITEM FOR THE NEW STRUCTURE BEING INSTALLED. NO ADDITIONAL PAYMENT SHALL BE MADE, REFER TO SUPPLEMENTAL SPECIFICATION SECTION 202.
- IF CONTRACTOR PROPOSES TO TEMPORARILY STOCKPILE ANY SURPLUS SOIL AND ROCK IN THE CITY OF PORTLAND, THE CONTRACTOR SHALL OBTAIN APPROVAL FOR EACH STOCKPILE LOCATION FROM THE ENGINEER. IF CONTRACTOR PROPOSES TO PERMANENTLY STOCKPILE ANY SURPLUS SOIL AND ROCK ON PROPERTY IN THE CITY OF PORTLAND, THE CONTRACTOR MUST OBTAIN ANY SITE PLAN PERMITS REQUIRED FROM THE CITY PLANNING AUTHORITY OR ANY FILL PERMITS REQUIRED FROM MDEP OR U.S. ARMY CORPS OF ENGINEERS. BOTH TEMPORARY AND PERMANENT STOCKPILE LOCATIONS SHALL MEET THE APPLICABLE SETBACK REQUIREMENTS IN THE CITY LAND USE CODE AND SHALL RECEIVE PROPER STABILIZATION AND EROSION & SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH APPROVED SOIL EROSION & WATER POLLUTION CONTROL PLAN.
- CAPPED PIPE STUB LOCATIONS SHALL BE MARKED WITH EMBEDDED STAKE AND A MINIMUM OF THREE TIES SHOULD BE RECORDED. EMBEDDED STAKE SHALL BE 2x4 WITH PK NAIL DRIVEN IN TOP. LENGTH AS REQUIRED TO SPAN FROM TOP OF PIPE TO 6" BELOW GRADE LOCATION AND ELEVATION OF PIPE STUB SHALL BE PROVIDED TO THE CITY OF PORTLAND ENGINEERING OFFICE. WARNING TAPE AND WIRE SHALL BE INSTALLED OVER PIPE STUBS IN ACCORDANCE WITH SPECIFICATIONS.
- PROPERTY LINES DEPICTED ON PLANS ARE DERIVED FROM CITY ASSESSOR GIS-BASED TAX MAPS. PROPERTY LINES SHALL BE CONSIDERED APPROXIMATE AS SHOWN.
- THE FOLLOWING WORK SHALL BE INCIDENTAL TO THE COST OF ALL NEW PIPE CULVERTS, STORM DRAINS, AND NEW OR ALTERED MANHOLES, INLETS, AND CATCH BASINS (603 AND 604 PAY ITEMS):
 - CUTTING OF PIPE AND/OR CONNECTORS NECESSARY TO CONSTRUCT NEW STORM DRAIN AND SEWER PIPE;
 - WORK AND MATERIALS NECESSARY TO CONNECT NEW OR EXISTING PIPES TO EXISTING PIPES, CATCH BASINS, OR MANHOLES;
 - CHANGES TO FLOW LINES, PROFILE GRADES, AND PIPE INVERTS OF ONE FOOT OR LESS.

ABBREVIATIONS

&	AND
CB	CATCH BASIN
CMP	CENTRAL MAINE POWER
CO	CLEANOUT
DIA.	DIAMETER
DMH	DRAIN MANHOLE
G	GAS MAIN
INV.	INVERT
LF	LINEAR FEET
N.I.C.	NOT IN CONTRACT
NR	NO REFUSAL
N.T.S.	NOT TO SCALE
S	SLOPE (FT./FT.)
SD	SEWER
SD	STORM DRAIN
SMH	SEWER MANHOLE
SCH	SCHEDULE
STA.	STATION
UD	UNDERDRAIN
UF	UNDERDRAINED BOX FITTER
W	WATER
W/	WITH
W	WATERMAIN

SYMBOLS

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
CATCH BASIN W/ HEADSTONE		
DRAIN BASIN		
UTILITY POLE W/GUY		
WATER GATE		
WATER VALVE		
BORING/PROBE & NUMBER		
TEST PIT		
SOIL FILTER INLET LOCATION		
SOIL FILTER AREA		
CLEANOUT		

BORING/ PROBE TYPE & NO.	
	TYPE NO.
	EXIST. GRADE ELEV. LOCATION
	REFUSAL ELEV.
	NO REFUSAL

LINE TYPES

DESCRIPTION	EXISTING
CONTOUR (1' INTERVAL)	
CONTOUR (INDEX)	
SANITARY SEWER	
STORM DRAIN	
WATER MAIN	
GAS LINE	

DESCRIPTION	PROPOSED
STORM DRAIN	
UNDERDRAIN	
EXIST. LINE TO BE DEMOLISHED	
LIMIT OF WORK SAWCUT	

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REFERENCES:

DESIGNED BY:	ADAM
DRAWN BY:	BEAM
CHECKED BY:	DAS
SCALE:	AS NOTED
DATE:	9/21/2015

ANDERSON STREET
 NEIGHBORHOOD BYWAY PROJECT
 PHASE 2 OF 2 - CONTRACT 1 OF 3

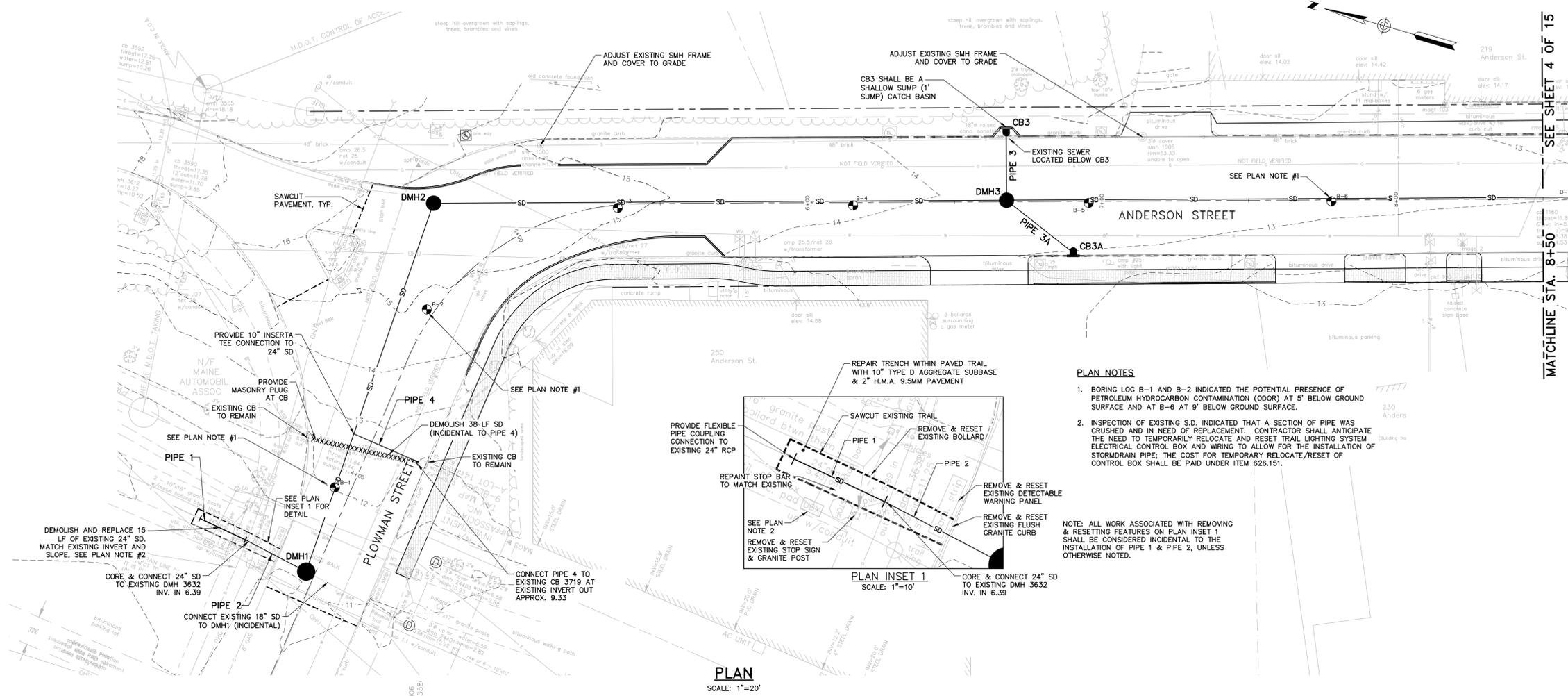
GENERAL NOTES, ABBREVIATIONS & LEGENDS

CITY OF PORTLAND, MAINE
 PUBLIC SERVICES DEPARTMENT
 ENGINEERING DIVISION



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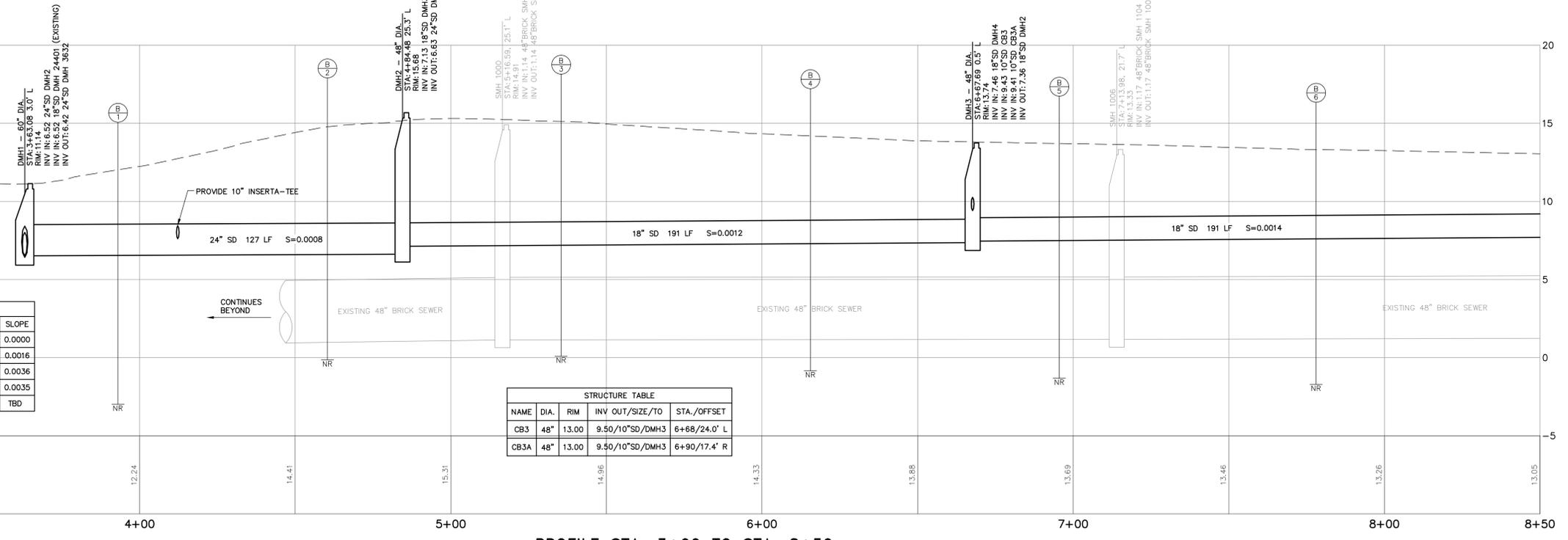


PLAN NOTES

- BORING LOG B-1 AND B-2 INDICATED THE POTENTIAL PRESENCE OF PETROLEUM HYDROCARBON CONTAMINATION (ODOR) AT 5' BELOW GROUND SURFACE AND AT B-6 AT 9' BELOW GROUND SURFACE.
- INSPECTION OF EXISTING S.D. INDICATED THAT A SECTION OF PIPE WAS CRUSHED AND IN NEED OF REPLACEMENT. CONTRACTOR SHALL ANTICIPATE THE NEED TO TEMPORARILY RELOCATE AND RESET TRAIL LIGHTING SYSTEM ELECTRICAL CONTROL BOX AND WIRING TO ALLOW FOR THE INSTALLATION OF STORMDRAIN PIPE; THE COST FOR TEMPORARY RELOCATE/RESET OF CONTROL BOX SHALL BE PAID UNDER ITEM 626.151.

NOTE: ALL WORK ASSOCIATED WITH REMOVING & RESETING FEATURES ON PLAN INSET 1 SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF PIPE 1 & PIPE 2, UNLESS OTHERWISE NOTED.

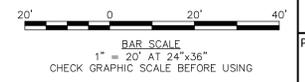
PLAN
SCALE: 1"=20'



PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 1	24" SD	15'	0.0000
PIPE 2	24" SD	19'	0.0016
PIPE 3	10" SD	19'	0.0036
PIPE 3A	10" SD	25'	0.0035
PIPE 4	10" SD	26'	TBD

STRUCTURE TABLE				
NAME	DIA.	RIM	INV OUT/SIZE/TO	STA./OFFSET
CB3	48"	13.00	9.50/10"SD/DMH3	6+68/24.0' L
CB3A	48"	13.00	9.50/10"SD/DMH3	6+90/17.4' R

PROFILE STA. 3+00 TO STA. 8+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'



MATCHLINE STA. 8+50 SEE SHEET 4 OF 15

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DESIGNED BY: MAM
DRAWN BY: BECM
CHECKED BY: DAS
SCALE: AS SHOWN
DATE: 9/21/2015

DAVID A. SEBIS
10791
REGISTERED PROFESSIONAL ENGINEER

**ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3**

SEWER/RAIN PLAN & PROFILE 1

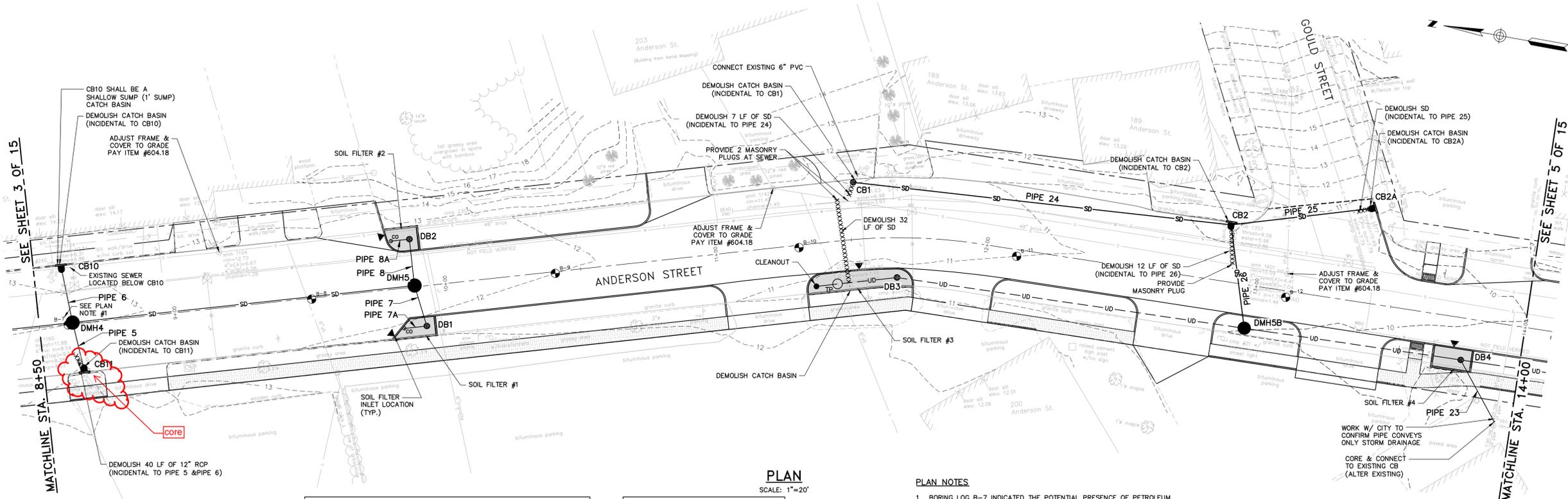
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SHEET #
3 OF 15

PLAN NUMBER

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STRUCTURE TABLE

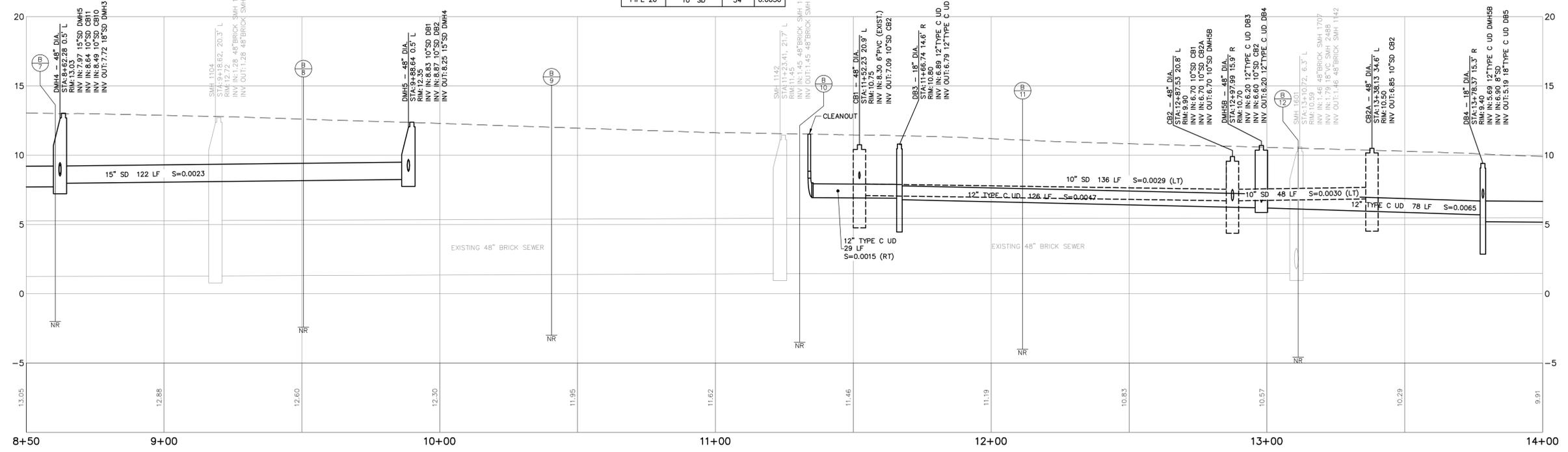
NAME	DIA.	RIM	INV IN/SIZE/FROM	INV OUT/SIZE/TO	STA./OFFSET
CB1	4'	10.75	8.30/6" PVC (EXIST.)	7.09/10" SD/CB2	11+52/20.9' L
CB2	4'	9.90	6.70/10" SD/CB1 6.70/10" SD/CB2A	6.70/10" SD/DMH5B	12+88/20.8' L
CB2A	4'	10.50		6.85/10" SD/CB2	13+38/34.6' L
CB10	4'	12.05		8.72/10" SD/DMH4	8+60/20.8' L
CB11	4'	12.20		8.87/10" SD/DMH4	8+65/17.0' R
DB1	1'	11.70	8.87/6" TYPE B UD/	8.87/10" SD/DMH5	9+92/14.7' R
DB2	1'	11.75	8.92/6" TYPE B UD/	8.92/10" SD/DMH5	9+89/17.5' L

PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 5	10" SD	14'	0.0167
PIPE 6	10" SD	16'	0.0143
PIPE 7	10" SD	13'	0.0034
PIPE 7A	6" TYPE B UD	8'	0.0000
PIPE 8	10" SD	14'	0.0033
PIPE 8A	6" TYPE B UD	6'	0.0000
PIPE 23	8" SD	25'	0.0034
PIPE 24	10" SD	136'	0.0029
PIPE 25	10" SD	48'	0.0030
PIPE 26	10" SD	34'	0.0030

PLAN
SCALE: 1"=20'

PLAN NOTES
1. BORING LOG B-7 INDICATED THE POTENTIAL PRESENCE OF PETROLEUM HYDROCARBON CONTAMINATION (ODOR) AT 9' BELOW GROUND SURFACE.



PROFILE STA. 8+50 TO STA. 14+00
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

NOTE:
DASHED PIPE AND STRUCTURES IN PROFILE VIEW REPRESENTS INFRASTRUCTURE ON LEFT (EAST) SIDE OF STATION CENTERLINE.



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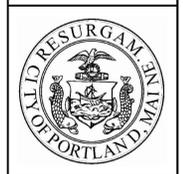
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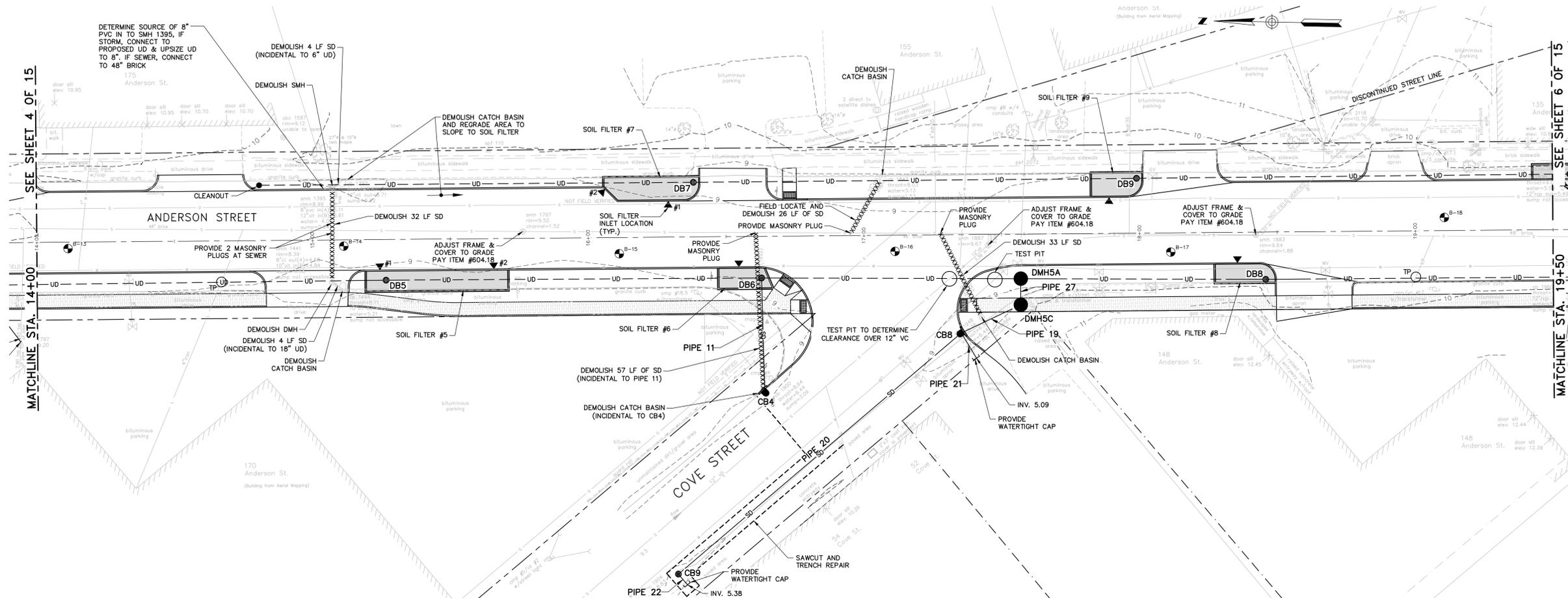
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SCALE: AS NOTED
DATE: 9/21/2015

STATE OF MAINE
DAVID A. SEIBEL
10791
REGISTERED PROFESSIONAL ENGINEER

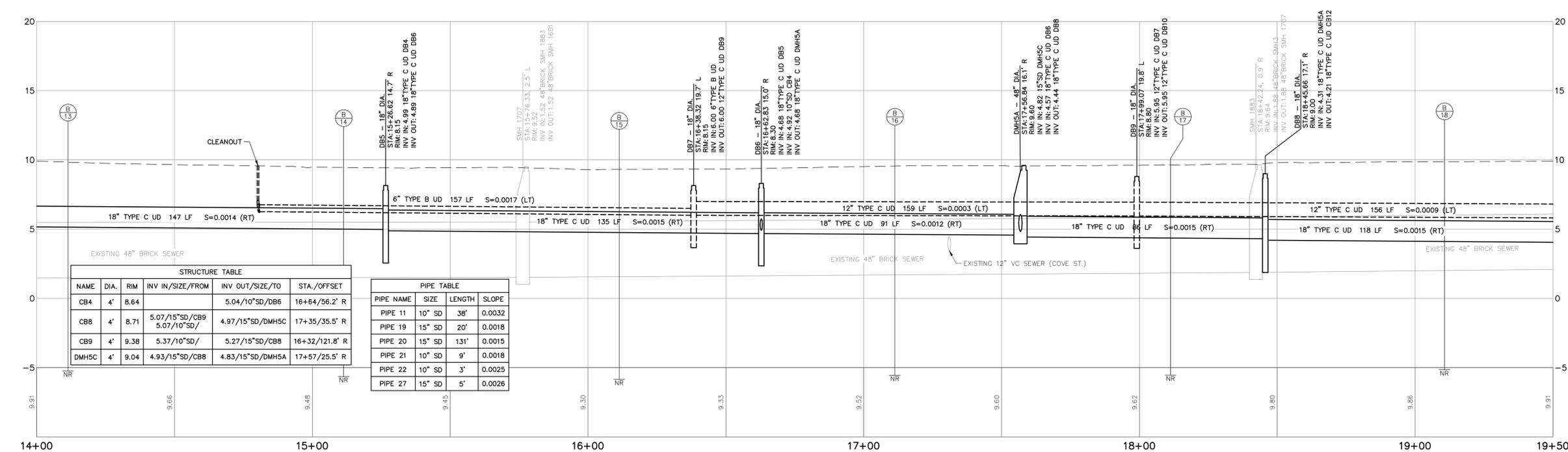
**ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3**
SEWER/DRAIN PLAN & PROFILE 2

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION





PLAN
SCALE: 1"=20'



EXISTING 48" BRICK SEWER

NAME	DIA.	RIM	INV IN/SIZE/FROM	INV OUT/SIZE/TO	STA./OFFSET
CB4	4'	8.64		5.04/10"SD/DB6	16+64/56.2' R
CB8	4'	8.71	5.07/15"SD/CB9 5.07/10"SD/	4.97/15"SD/DMH5C	17+35/35.5' R
CB9	4'	9.38	5.37/10"SD/	5.27/15"SD/CB8	16+32/121.8' R
DMH5C	4'	9.04	4.93/15"SD/CB8	4.83/15"SD/DMH5A	17+57/25.5' R

PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 11	10" SD	38'	0.0032
PIPE 19	15" SD	20'	0.0018
PIPE 20	15" SD	131'	0.0015
PIPE 21	10" SD	9'	0.0018
PIPE 22	10" SD	3'	0.0025
PIPE 27	15" SD	5'	0.0026

PROFILE STA. 14+00 TO STA. 19+50
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

NOTE:
DASHED PIPE AND STRUCTURES IN PROFILE VIEW REPRESENTS INFRASTRUCTURE ON LEFT VIEW SIDE OF STATION CENTERLINE.



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COMMITMENT & INTEGRITY DRIVE RESULTS

DESIGNED BY: ADAM
DRAWN BY: BECM
CHECKED BY: DAS
SCALE: AS SHOWN
DATE: 9/21/2015

DAVID A. SEBIS
REGISTERED PROFESSIONAL ENGINEER
NO. 10791

9/21/2015

**ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3**

SEWER/DRAIN PLAN & PROFILE 3

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION

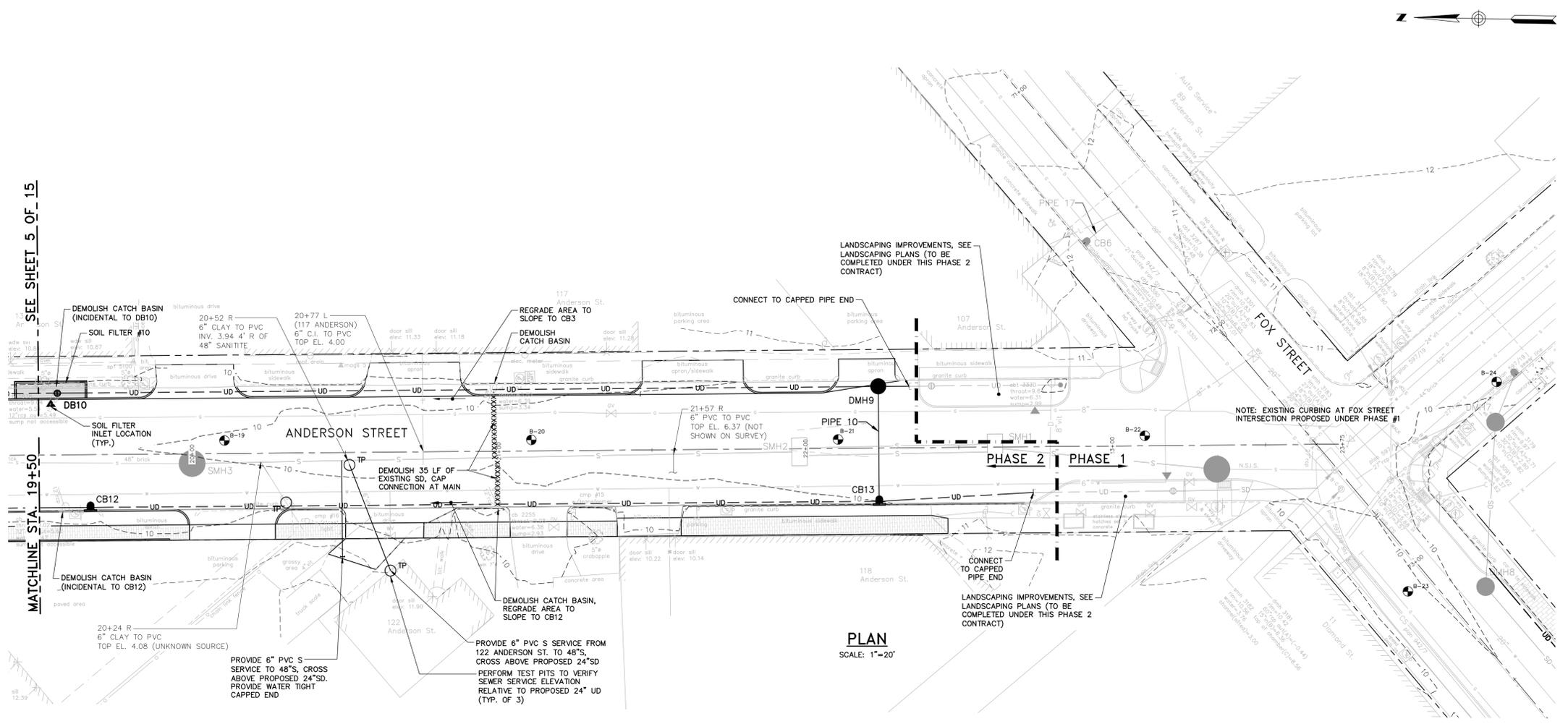


SHEET #
5 OF 15

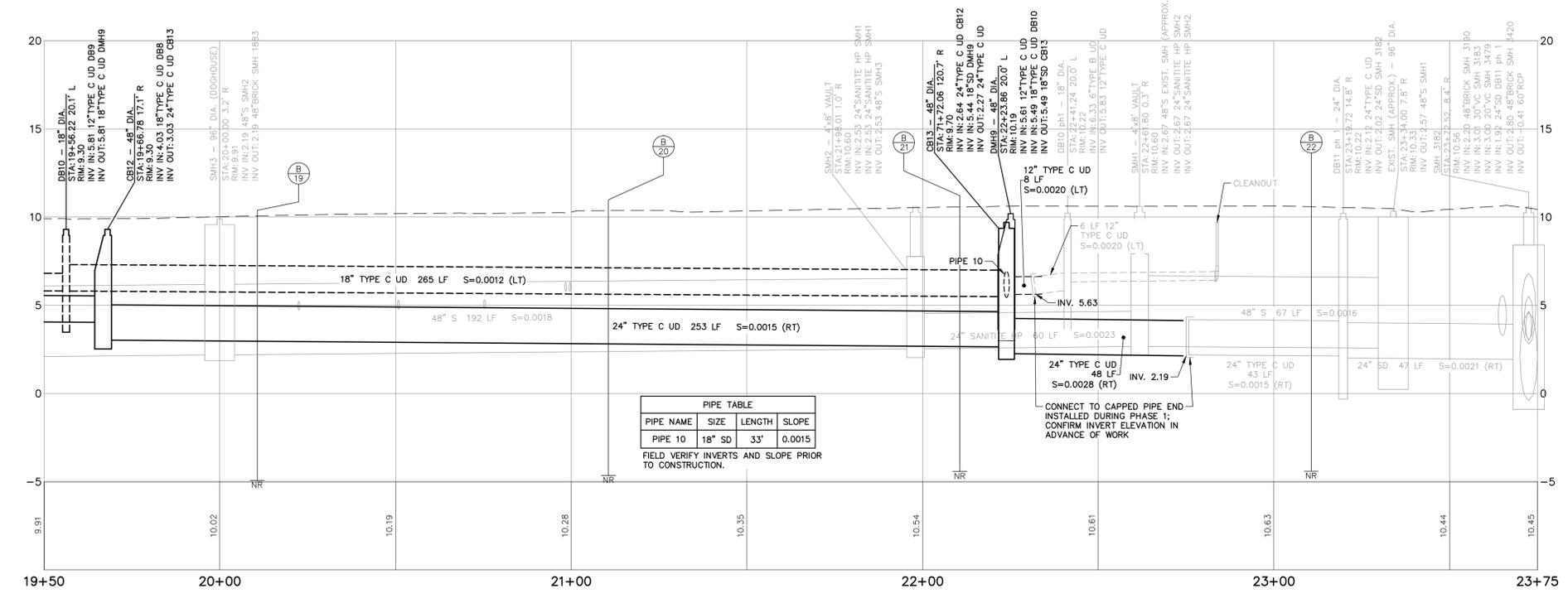
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PLAN
SCALE: 1"=20'



PIPE TABLE			
PIPE NAME	SIZE	LENGTH	SLOPE
PIPE 10	18" SD	33'	0.0015

FIELD VERIFY INVERTS AND SLOPE PRIOR TO CONSTRUCTION.

PROFILE STA. 19+50 TO STA. 23+75
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 4'

NOTE:
DASHED PIPE AND STRUCTURES IN PROFILE VIEW REPRESENTS INFRASTRUCTURE ON LEFT (EAST) SIDE OF STATION CENTERLINE.

NOTE 1. CONTRACTOR SHALL RAISE ALL STRUCTURES INSTALLED IN ANDERSON AND FOX STREETS UNDER PHASE 1 TO GRADE AND PROVIDE FRAME AND COVER PER CITY TECHNICAL STANDARDS. SPECIFICALLY PHASE 1 SMH 1, 2, & 3 AND DMH 8, 9, & 10.

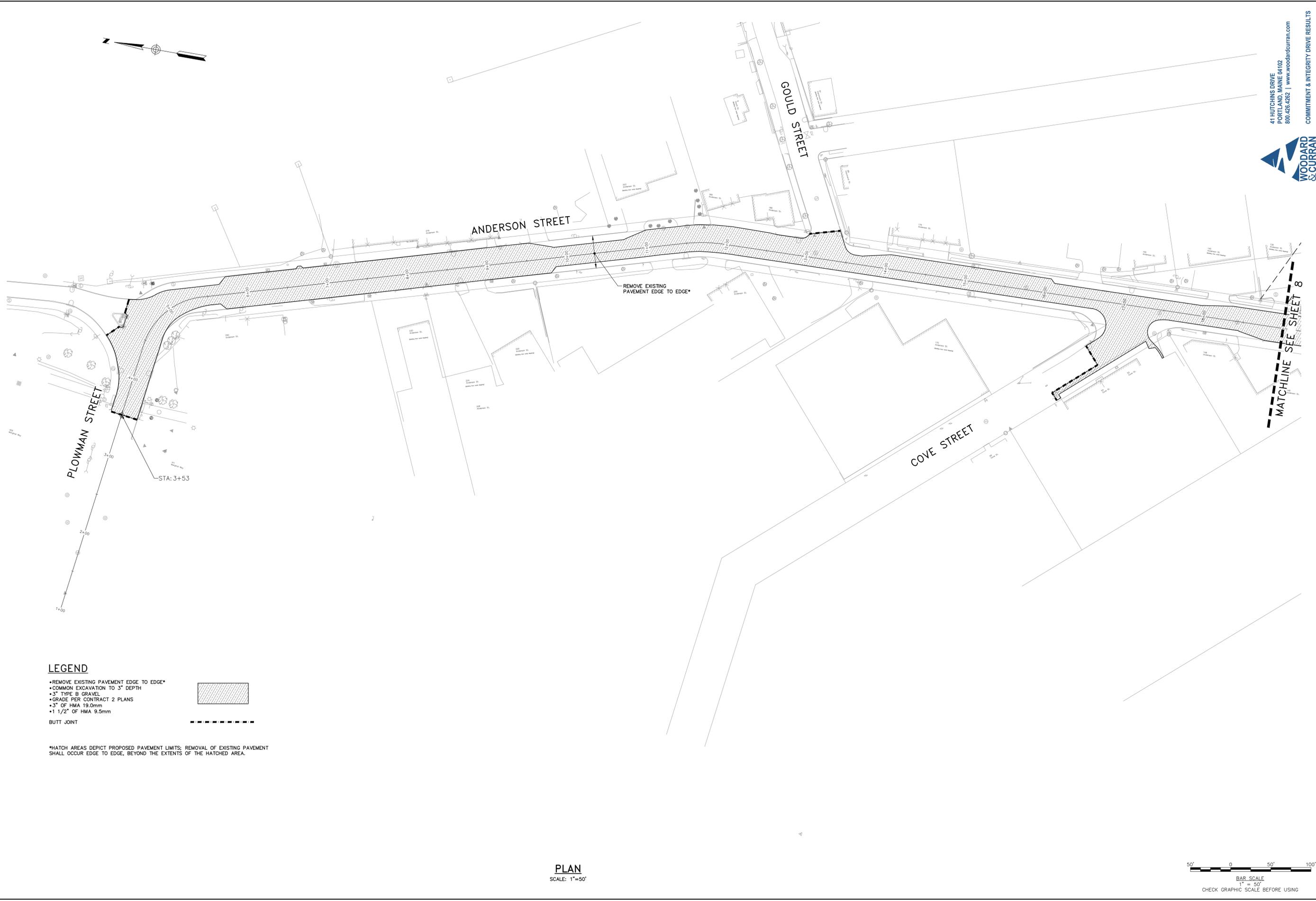


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DRAWN BY: BCM
CHECKED BY: DAS
SCALE: AS NOTED
DATE: 9/21/2015

**ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3**
SEWER/DRAIN PLAN & PROFILE 4

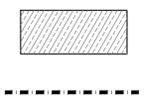
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LEGEND

- REMOVE EXISTING PAVEMENT EDGE TO EDGE*
- COMMON EXCAVATION TO 3" DEPTH
- 3" TYPE B GRAVEL
- GRADE PER CONTRACT 2 PLANS
- 3" OF HMA 19.0mm
- 1 1/2" OF HMA 9.5mm



*HATCH AREAS DEPICT PROPOSED PAVEMENT LIMITS; REMOVAL OF EXISTING PAVEMENT SHALL OCCUR EDGE TO EDGE, BEYOND THE EXTENTS OF THE HATCHED AREA.

PLAN
SCALE: 1"=50'



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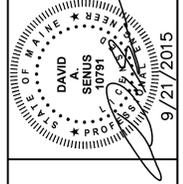


WOODARD & CURRAN

COMMITMENT & INTEGRITY DRIVE RESULTS

REFERENCES:

DESIGNED BY:	ADAM
DRAWN BY:	BEAM
CHECKED BY:	DAS
SCALE:	AS SHOWN
DATE:	9/21/2015

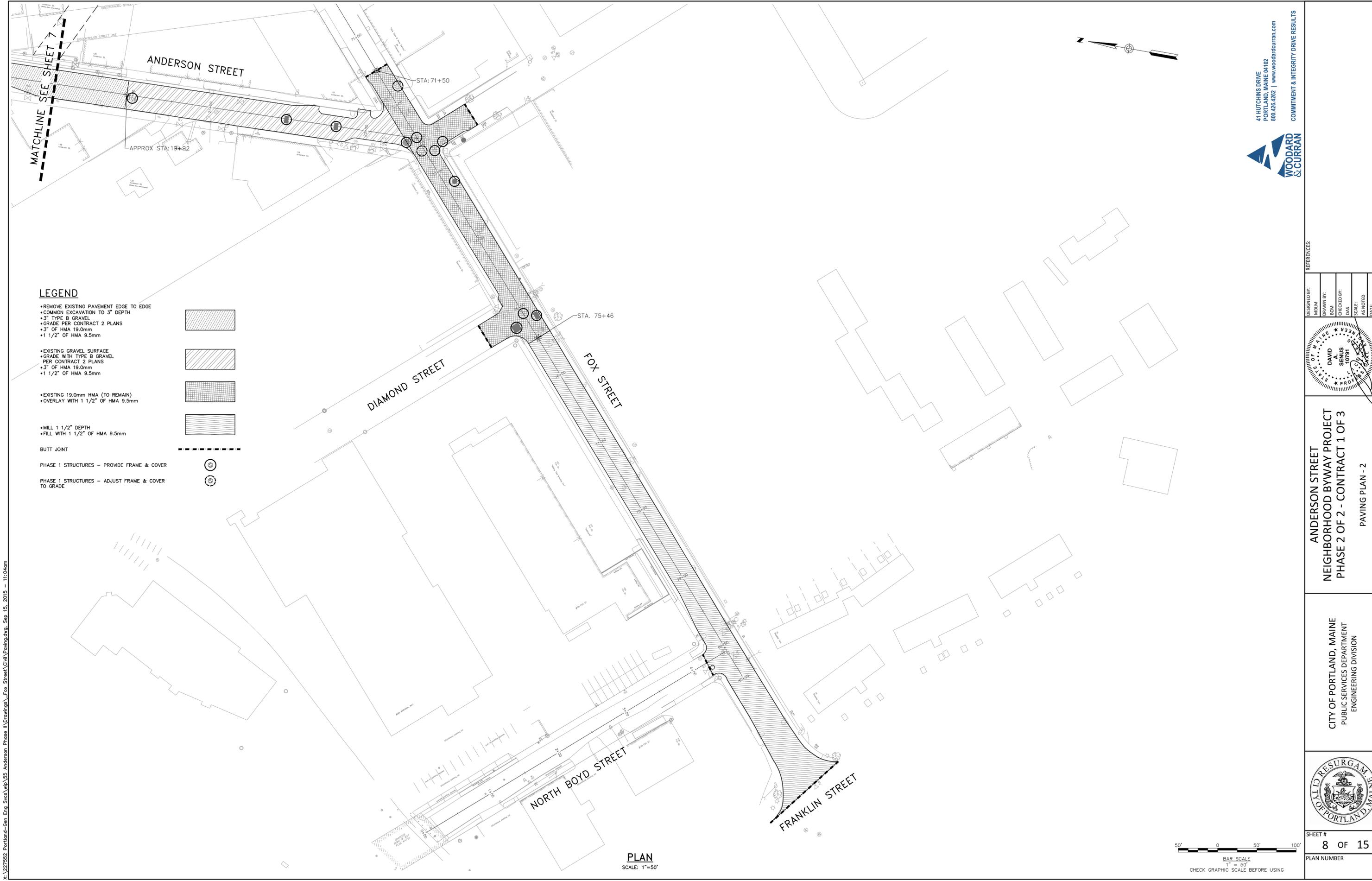


ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3
PAVING PLAN - 1

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION

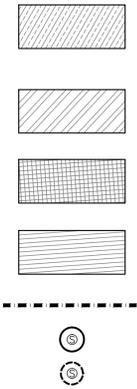


SHEET #
7 OF 15
PLAN NUMBER



LEGEND

- REMOVE EXISTING PAVEMENT EDGE TO EDGE
 - COMMON EXCAVATION TO 3" DEPTH
 - 3" TYPE B GRAVEL
 - GRADE PER CONTRACT 2 PLANS
 - 3" OF HMA 19.0mm
 - 1 1/2" OF HMA 9.5mm
- EXISTING GRAVEL SURFACE
 - GRADE WITH TYPE B GRAVEL PER CONTRACT 2 PLANS
 - 3" OF HMA 19.0mm
 - 1 1/2" OF HMA 9.5mm
- EXISTING 19.0mm HMA (TO REMAIN)
 - OVERLAY WITH 1 1/2" OF HMA 9.5mm
- MILL 1 1/2" DEPTH
 - FILL WITH 1 1/2" OF HMA 9.5mm
- BUTT JOINT
- PHASE 1 STRUCTURES - PROVIDE FRAME & COVER
- PHASE 1 STRUCTURES - ADJUST FRAME & COVER TO GRADE



PLAN
SCALE: 1"=50'



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COMMITMENT & INTEGRITY DRIVE RESULTS

DESIGNED BY: MDLM
DRAWN BY: BCM
CHECKED BY: DAS
SCALE: AS SHOWN
DATE: 9/21/2015

STATE OF MAINE
DAVID A. SEBIS
10791

9/21/2015

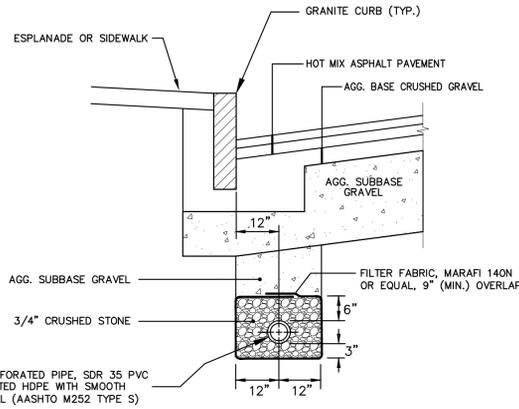
ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3
PAVING PLAN - 2

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION

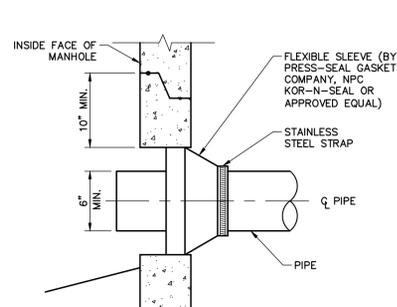


SHEET #
8 OF 15
PLAN NUMBER

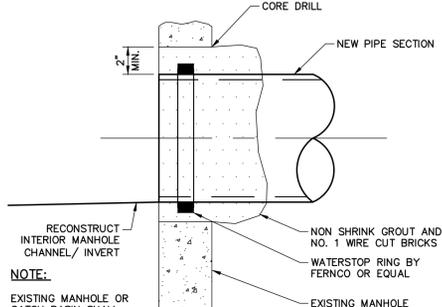
- NOTES
 1. UNDERDRAIN PIPE INVERT ELEVATIONS SHALL BE AT LEAST 42 INCHES BELOW GUTTER GRADES.
 2. PERFORATIONS IN UNDERDRAIN PIPE SHALL BE ORIENTED DOWN.



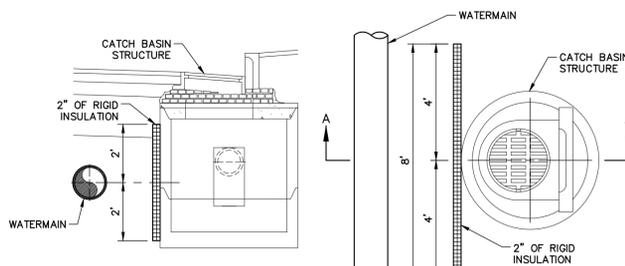
TYPE "B" UNDERDRAIN INSTALLATION DETAIL
 N.T.S.



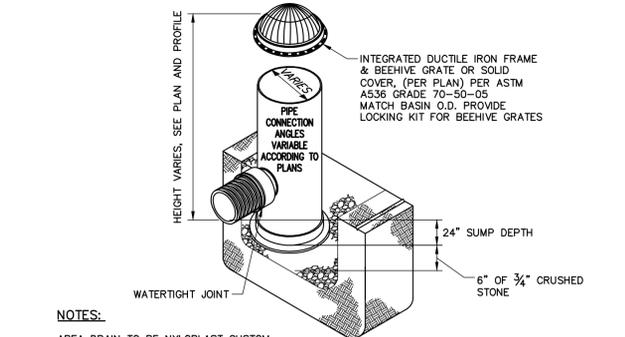
NEW PIPE TO NEW STRUCTURE CONNECTION DETAIL
 N.T.S.



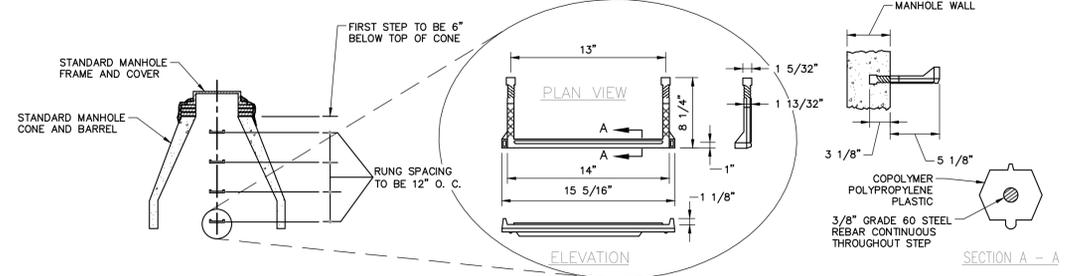
NEW PIPE TO EXISTING STRUCTURE CONNECTION DETAIL
 N.T.S.



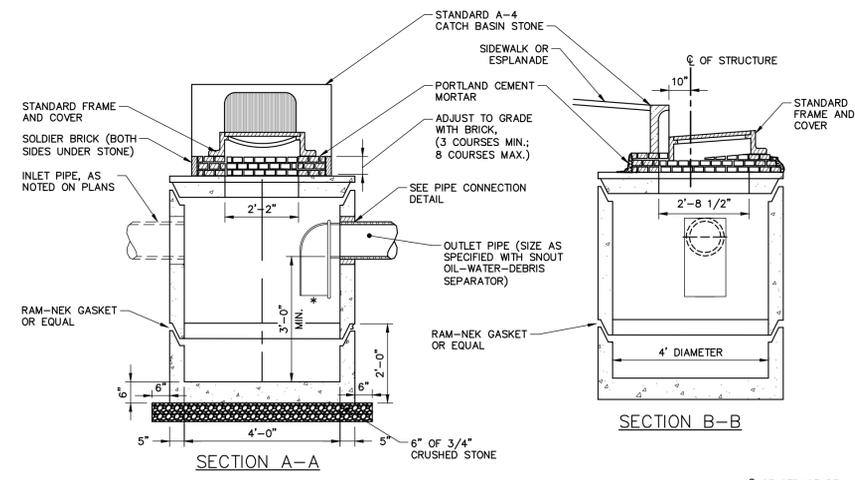
INSULATION BETWEEN WATERMAIN AND STRUCTURE DETAIL
 N.T.S.



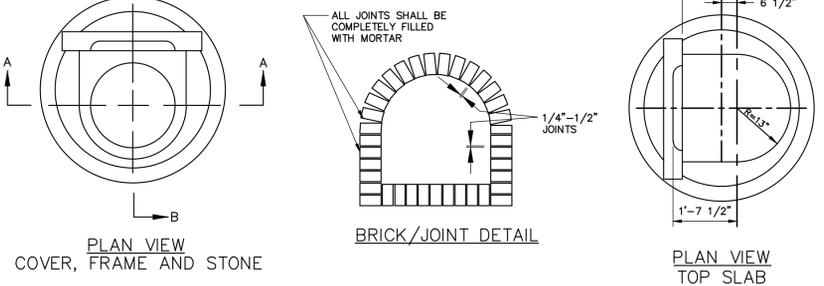
AREA DRAIN DETAIL
 N.T.S.



PLASTIC MANHOLE STEPS
 N.T.S.



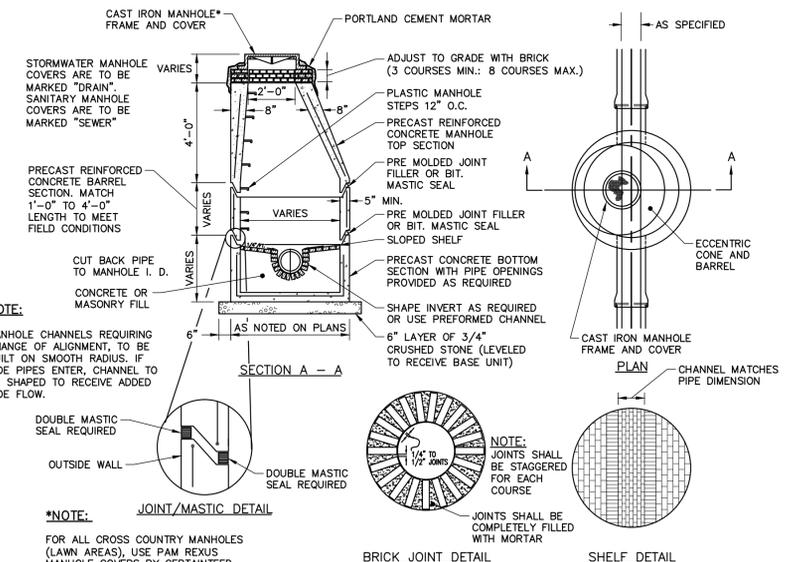
PRECAST CONCRETE CATCH BASIN
 N.T.S.



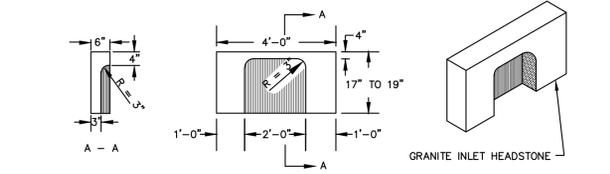
CAST IRON MANHOLE COVER AND FRAME
 N.T.S.

GENERAL NOTES FOR MANHOLES AND CATCH BASINS

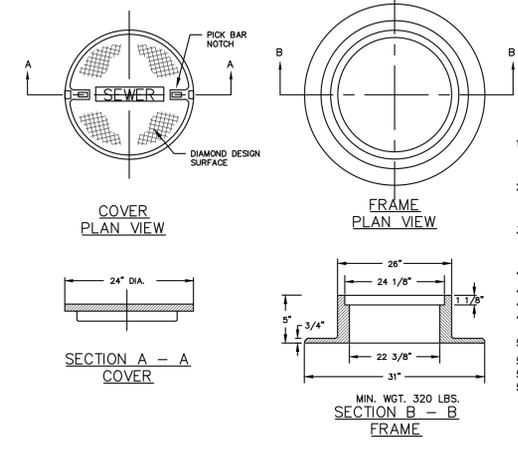
- ALL CONCRETE SHALL BE CLASS "A" AND HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
- PRECAST REINFORCED CONE BARREL MANUFACTURED PER ASTM SPEC. C-478.
- CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35. ALL PARTS OF CASTINGS, EXCEPT FINISHED SURFACE, SHALL RECEIVE A COAT OF COAL TAR PITCH VARNISH OR ASPHALTUM PAINT WHICH SHALL BE SMOOTH AND TOUGH BUT NOT BRITTLE.
- MANHOLES MAY BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE, OR CAST IN PLACE.
- CONTRACTOR SHALL SUBMIT ANTI-FLOATATION CALCULATIONS FOR ALL MANHOLE AND CATCH BASIN STRUCTURES.
- ALL PRECAST MANHOLES AND CATCH BASINS SHALL BE IDENTIFIED BY STATION, OFFSET, AND STRUCTURE ID PAINTED ON THE SIDE OF THE STRUCTURE BY THE MANUFACTURER.
- EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
- WHEN THE FLOW CHANGES DIRECTION IN A MANHOLE, THE CHANNEL ALIGNMENT SHALL FOLLOW A SMOOTH RADIUS. CHANNELS SHALL BE FORMED TO ACCEPT ALL INLET PIPES.
- ON STORM AND SEWER MANHOLES, THE SHELF AND CHANNEL SHALL BE FORMED BY BRICK SET IN CEMENT MORTAR OR BY FACTORY PRE-CAST CONCRETE. SUCH PRE-CAST CONCRETE SHALL BE EPOXY COATED AND THE SHELF SHALL HAVE A PERMANENT NON-SKID SURFACE.
- ALL STORM AND SEWER MANHOLE COVERS SHALL BE SOLID AND SHALL HAVE ONE 7/8" DIAMETER DRILLED PICK HOLE LOCATED 8" FROM THE CENTER OF THE COVER.
- ALL SANITARY MANHOLE COVERS SHALL HAVE "SEWER" CAST INTO THE COVER. ALL STORMWATER/RAIN MANHOLE COVERS SHALL HAVE "DRAIN" CAST INTO THE COVER.
- SEWER BRICK SHALL CONFORM TO ASTM SPEC. DESIGNATE ON C-32-63, GRADE MA AND SA.
- ALL SANITARY MANHOLES SHALL HAVE A WATERPROOFING COATING APPLIED TO THE EXTERIOR SURFACE.
- ALL CATCH BASIN OUTLETS SHALL BE INSTALLED WITH A CASCO TRAP. SEE FIGURE II-09.



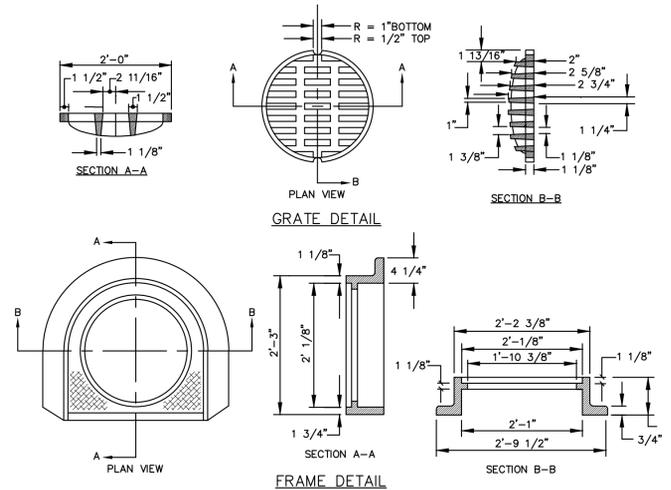
PRECAST CONCRETE MANHOLE
 N.T.S.



4' GRANITE HEADSTONE FOR CATCH BASIN INLET
 N.T.S.



CAST IRON MANHOLE COVER AND FRAME
 N.T.S.



CATCH BASIN FRAME AND GRATE
 N.T.S.

- ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 4000 LBS. PER SQ. INCH AT THE END OF 28 DAYS, UNLESS OTHERWISE NOTED.
- CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-CLASS 35.
- EXISTING MANHOLES, CATCH BASINS, FRAMES, AND COVERS SHALL BE SALVAGED BY THE CONTRACTOR, AND SHALL REMAIN THE PROPERTY OF THE CITY OF PORTLAND.
- ALL CATCH BASIN OUTLETS SHALL BE INSTALLED WITH A CASCO TRAP.
- APPROVED CATCH BASIN FRAMES:
 5.1. EAST JORDAN = 7375Z
 5.2. NEENAH = R-3248
 5.3. OR APPROVED EQUAL
- APPROVED CATCH BASIN GRATES:
 6.1. EAST JORDAN = 2440M
 6.2. NEENAH = R-3248
 6.3. OR APPROVED EQUAL

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 SCALE: AS NOTED
 DATE: 9/21/2015

DAVID A. SEIBER
 10791
 PROFESSIONAL ENGINEER
 STATE OF MAINE

ANDERSON STREET
 NEIGHBORHOOD BYWAY PROJECT
 PHASE 2 OF 2 - CONTRACT 1 OF 3
 SANITARY SEWER AND DRAINAGE
 DETAILS - 1

CITY OF PORTLAND, MAINE
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 ENGINEERING DIVISION

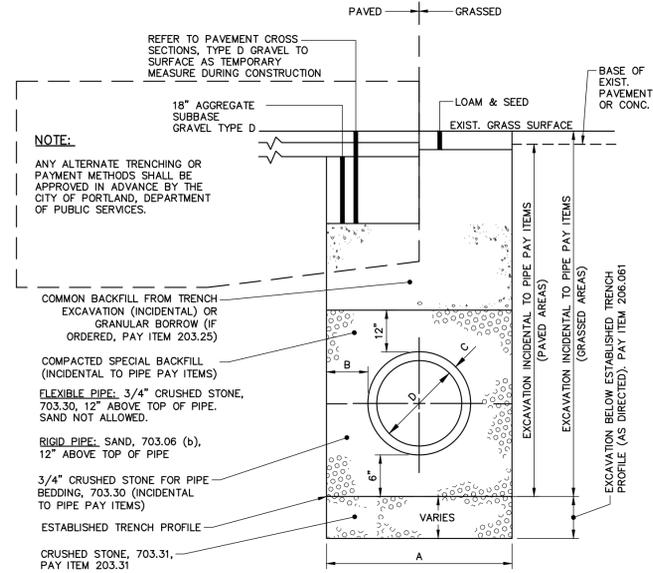
CITY OF PORTLAND, MAINE
 SHEET #
9 OF 15
 PLAN NUMBER

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PIPE INSTALLATION DETAIL -- NOTES

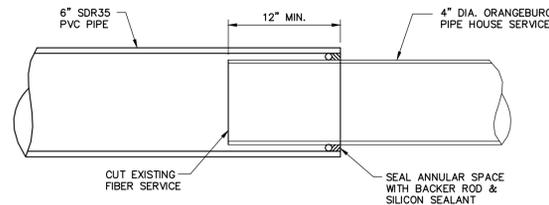
1. ALTERNATIVE CONSTRUCTION METHODS OR PAYMENT METHODS SHALL BE APPROVED IN ADVANCE.
2. IN PAVED AREAS, DEPTHS OF GRAVEL AND HOT MIX ASPHALT PAVEMENT SHALL MATCH THE GREATER OF EXISTING CONDITIONS OR THE REQUIREMENTS FOR THE CORRESPONDING STREET CLASSIFICATION.
3. DIMENSION "B" SHALL BE SUFFICIENT TO ALLOW CRUSHED STONE BEDDING TO BE PLACED AND COMPACTED UNDER THE HAUNCHES OF THE PIPE; BUT IN ALL CASES "B" SHALL BE AT LEAST 9".
4. DIMENSION "A" IS THE MAXIMUM WIDTH ALLOWED FOR CALCULATING PAY QUANTITIES UNDER ITEMS 203.25 GRANULAR BORROW, 203.31 CRUSHED STONE, 206.061 STRUCTURAL EARTH EXCAVATION, BELOW GRADE AND 206.07 STRUCTURAL ROCK EXCAVATION. DIMENSION "A" SHALL BE BASED ON PIPE DIAMETER, AS SET FORTH IN THE FOLLOWING TABLE.

PIPE DIAMETER, "D" (INCHES)	MAX. TRENCH WIDTH, "A" (FEET)
6	4.0
8	4.0
10	4.0
12	4.0
15	4.0
18	5.0
21	5.0
24	5.5
27	6.0
30	6.0
36	7.0
42	8.0
48	8.0
54	8.5
60	9.0

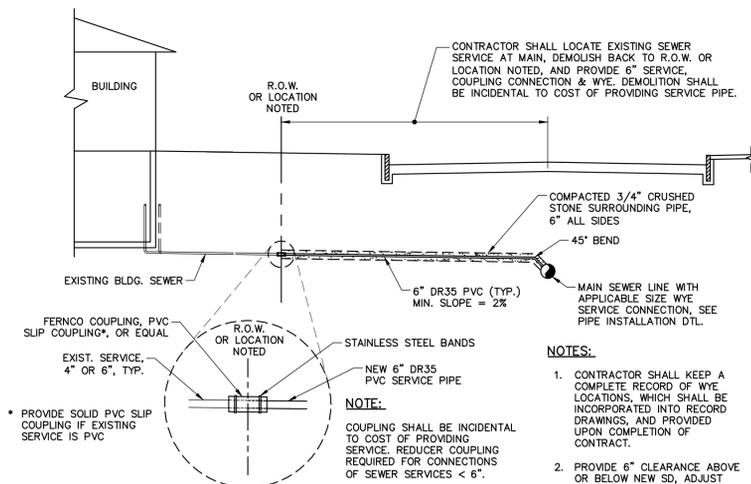


PIPE INSTALLATION DETAIL

N.T.S.

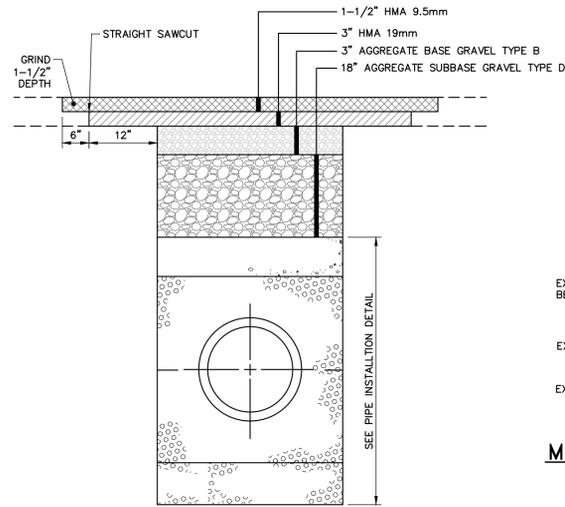


FIBER SEWER LATERAL PIPE TO PVC PIPE COUPLING



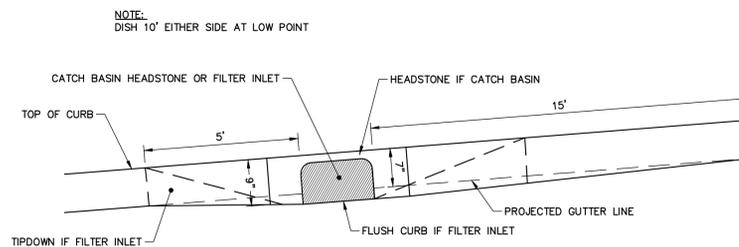
SEWER SERVICE DETAIL

N.T.S.



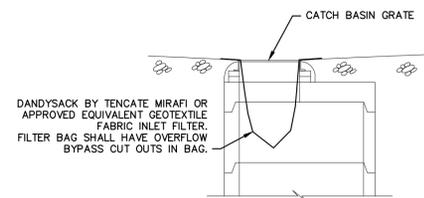
TRENCH REPAIR DETAIL (OUTSIDE OF FULL WIDTH PAVEMENT AREAS)

N.T.S.



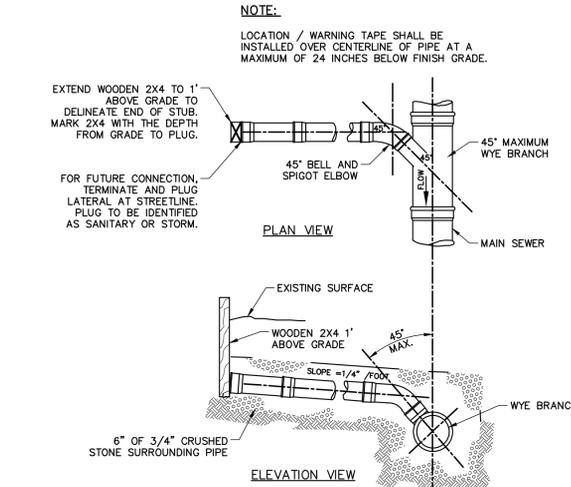
PAVEMENT GRADING FOR CATCH BASIN AND INLET

N.T.S.



CATCH BASIN INLET FILTER

N.T.S.



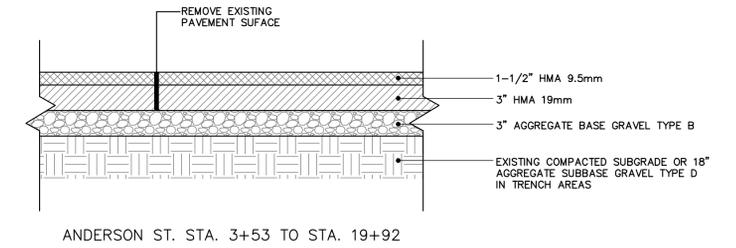
TYPICAL HOUSE LATERAL WYE CONNECTION DETAILS

N.T.S.

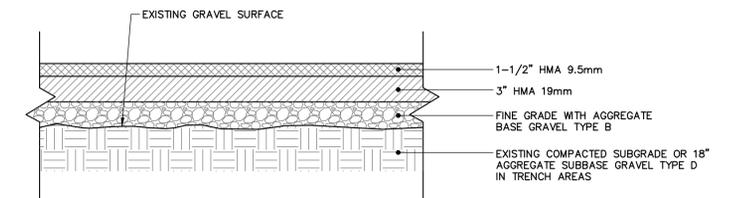
NOTE: FOR INSERTA TEE CONNECTIONS TO SEWER AND STORMDRAIN MAINS, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SNOUT OIL-WATER-DEBRIS SEPARATOR DETAIL

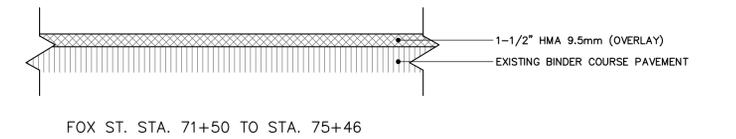
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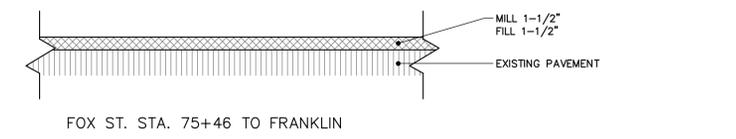
ANDERSON ST. STA. 3+53 TO STA. 19+92



ANDERSON ST. STA. 19+92 TO FOX ST.



FOX ST. STA. 71+50 TO STA. 75+46



FOX ST. STA. 75+46 TO FRANKLIN

PAVEMENT CROSS SECTIONS

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DATE: 9/21/2015

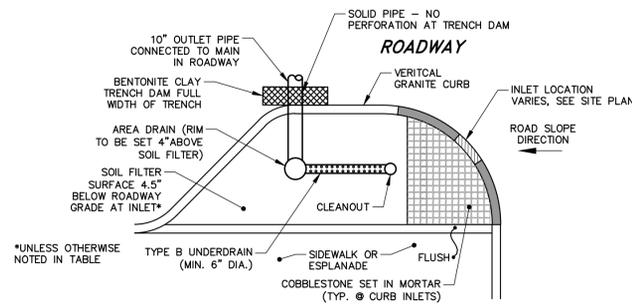
DAVID A. SENUS
REGISTERED PROFESSIONAL ENGINEER
STATE OF MAINE
NO. 10791

ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3
SANITARY SEWER AND DRAINAGE
DETAILS - 2

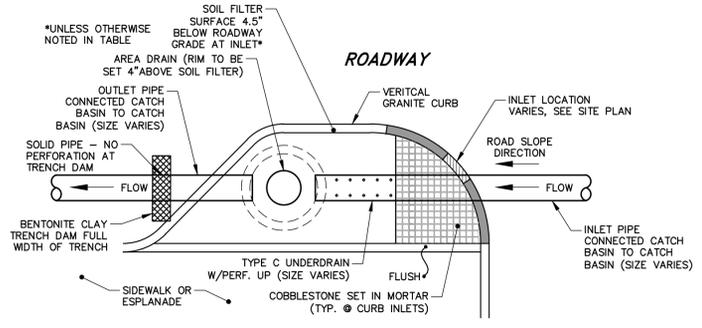
CITY OF PORTLAND, MAINE
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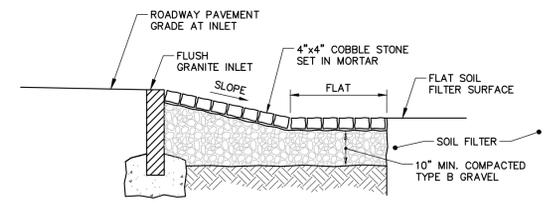
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TYPICAL SOIL FILTER STORM DRAIN CONFIGURATION CONNECTED TO ROADWAY MAIN
N.T.S.

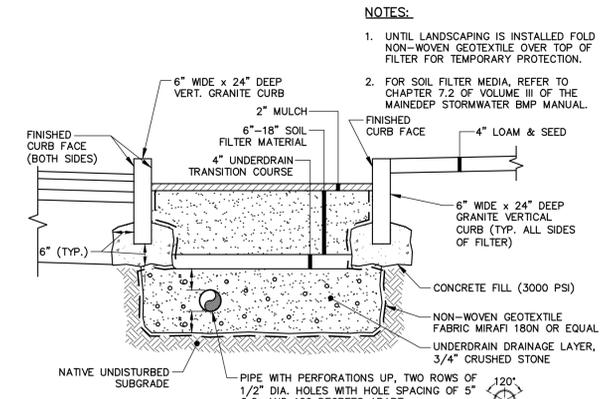


TYPICAL SOIL FILTER STORM DRAIN CONFIGURATION CONNECTED CATCH BASIN TO CATCH BASIN
N.T.S.



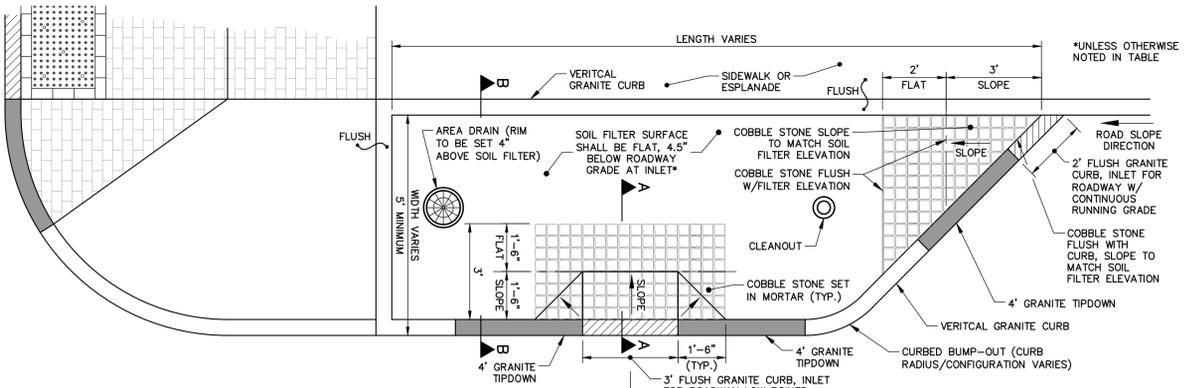
TYPICAL SOIL FILTER INLET (SECTION A-A)
N.T.S.

- NOTES:**
- SOIL FILTER LAYOUT ORIENTATION AND INLET QUANTITIES WILL VARY. REFER TO PLAN & PROFILE SHEETS FOR LAYOUT AND ORIENTATION INFORMATION AS WELL AS AREA DRAIN AND FLUSH GRANITE CURB LOCATIONS FOR EACH FILTER.
 - SOIL FILTER SURFACE SHALL BE FLAT.
 - ROADWAY SLOPES AND ELEVATIONS WILL VARY. REFER TO PLAN & PROFILE SHEETS AND CROSS-SECTIONS FOR ADDITIONAL INFORMATION.
 - REFER TO PLAN & PROFILE SHEETS FOR UNDERDRAIN ELEVATION FOR EACH FILTER.



TYPICAL SOIL FILTER SECTION (B-B)
N.T.S.

REFER TO 900.08 FOR FULL DESCRIPTION OF ITEMS THAT ARE INCIDENTAL TO THE SOIL FILTER LUMP SUM PAYMENT ITEM 900.01



TYPICAL SOIL FILTER LAYOUT PLAN
N.T.S.

- NOTES:**
- SUBSURFACE COMPONENTS & STORMDRAIN CONNECTIONS NOT SHOWN

SOIL FILTER GENERAL NOTES:

SOIL FILTERS SHALL BE CONSTRUCTED IN CONFORMANCE WITH SECTION 900 OF THE SUPPLEMENTAL SPECIFICATIONS.

SOIL FILTER MATERIAL SHALL BE A LOAMY SAND SOIL COMBINED WITH 30% BY VOLUME OF MODERATELY FINE, WOOD FIBER OR BARK MULCH. THE RESULTING MIXTURE SHALL HAVE NO LESS THAN 10% PASSING THE 200 SIEVE. SOIL FILTER MEDIA SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES. SUBCOMPONENTS OF THE SOIL FILTER MEDIA INCLUDE:

LOAMY SAND SHALL CONSIST OF NATIVE LOAMY SAND (AS DEFINED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE) THAT CONTAINS NO LESS THAN 10% PASSING THE #200 SIEVE AND BETWEEN 2-5% CLAY AS DETERMINED THROUGH SOIL TEXTURAL ANALYSIS.

WOOD FIBER MULCH SHALL CONSIST OF A MODERATELY FINE, WELL COMPOSTED HARDWOOD BARK FREE OF REFUSE, PHYSICAL CONTAMINANTS AND MATERIAL TOXIC TO PLANT GROWTH MULCH. THE MULCH SHALL HAVE 100% PASSING A 1" SCREEN.

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE PLAN THAT OUTLINES THE OVERALL WORK IN RELATION TO THE CONSTRUCTION OF THE SOIL FILTER SYSTEMS, SPECIFICALLY CONSIDERING SITE STABILIZATION, SOIL FILTER INSTALLATION, AND VEGETATION PLACEMENT IN AND AROUND THE FILTER SYSTEMS. THE SOIL FILTER MEDIA MUST NOT BE INSTALLED UNTIL THE ENTIRE AREA THAT DRAINS TO THE FILTER HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT, VEGETATION, EROSION CONTROL MATTING, OR OTHER STRUCTURES UNLESS THE RUNOFF IS DIVERTED AROUND THE FILTER OR UNLESS THE FILTER IS COMPLETELY WRAPPED AND PROTECTED BY A NON-WOVEN GEOTEXTILE LINER WHICH CAN BE REMOVED FROM THE SURFACE PRIOR TO FINAL STABILIZATION.

THE AREA THAT DRAINS TO THE SOIL FILTER SHALL BE KEPT STABLE, AVOIDING EROSION AND DEPOSITION OF SEDIMENTS INTO THE STORMWATER

MANAGEMENT SYSTEM. ABSOLUTELY NO RUNOFF IS TO ENTER THE FILTER UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN SUFFICIENTLY STABILIZED.

ADDITIONAL SURFACE LOAM MAY BE UTILIZED TO PROMOTE VEGETATION SURVIVAL. LOAM SHALL CONSIST OF NO MORE THAN 1/2 DEPTH OF NATIVE SANDY LOAM LIGHTLY RAKED INTO THE SOIL FILTER SURFACE.

SUBMITTALS

THE FOLLOWING MATERIAL SHALL BE SUBMITTED:

SOIL FILTER MEDIA

LOAMY SAND

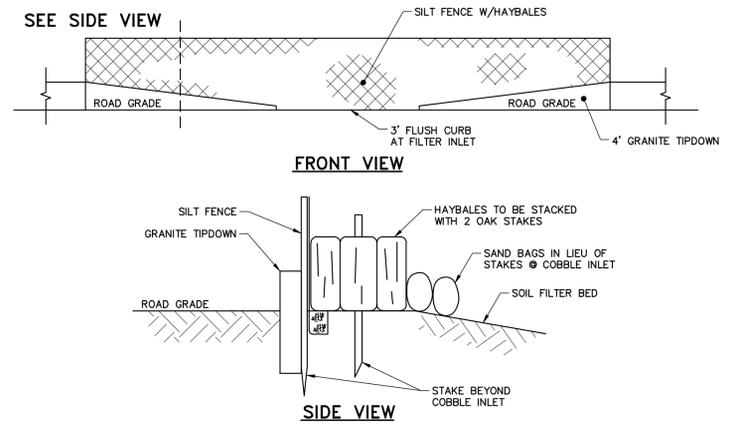
SUBMIT 5 LBS. SAMPLE OF EACH TYPE OF MATERIAL IN AIR TIGHT CONTAINER TO PROJECT ENGINEER.

CONTRACTOR SHALL PERFORM A SIEVE ANALYSIS IN CONFORMANCE WITH ASTM C136 - STANDARD TEST METHOD FOR SIEVE ANALYSIS AND ASTM C117 - STANDARD TEST METHOD FOR MATERIALS FINER THAN 75µm ON EACH TYPE OF MATERIAL AND SUBMIT RESULTS TO PROJECT ENGINEER.

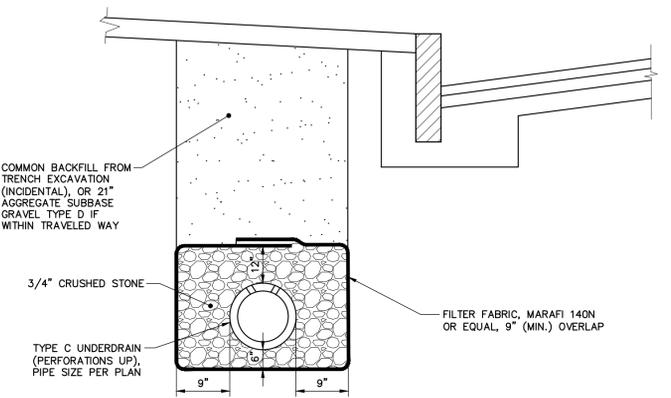
CONTRACTOR SHALL PERFORM A SOIL TEXTURAL ANALYSIS FOR LOAMY SAND IN CONFORMANCE WITH ASTM D422 - STANDARD TEST METHOD FOR PARTICLE-SIZE ANALYSIS OF SOILS AND SUBMIT RESULTS TO PROJECT ENGINEER.

CONTRACTOR SHALL PROVIDE ALL OTHER PRODUCT DATA SUBMITTAL REQUIREMENTS IN CONFORMANCE WITH SPECIFICATIONS RELATIVE TO VEGETATION, LOAM, SOIL FILTER SYSTEMS, AND OTHER PROJECT COMPONENTS.

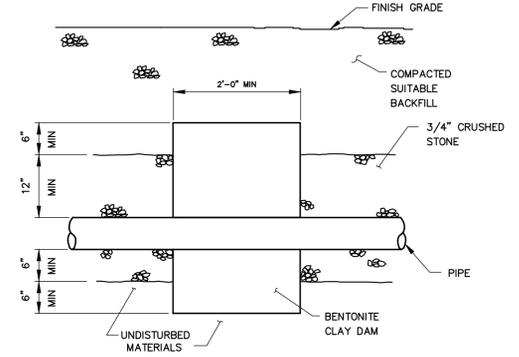
SOIL FILTER	FLUSH CURB INLET 1	FLUSH CURB INLET 2	FILTER SURFACE	AREA DRAIN RIM
#1	11.75	N/A	11.37	11.70
#2	11.80	N/A	11.42	11.75
#3	10.85	N/A	10.47	10.80
#4	9.45	N/A	9.07	9.40
#5	8.35	8.15	7.82	8.15
#6	8.35	N/A	7.97	8.30
#7	8.25	8.15	7.82	8.15
#8	9.05	N/A	8.67	9.00
#9	8.85	N/A	8.47	8.80
#10	9.35	N/A	8.97	9.30



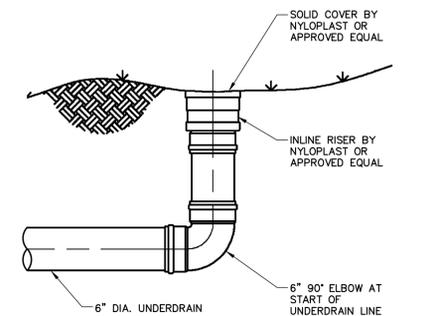
TEMPORARY FILTER INLET PROTECTION
N.T.S.



TYPE "C" CONVEYANCE UNDERDRAIN DETAIL
N.T.S.



BENTONITE CLAY DAM
N.T.S.



6" DIA. INLINE DRAIN RISER (CLEANOUT)
N.T.S.

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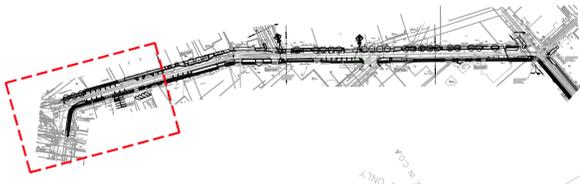
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PHASE 2 OF 2 - CONTRACT 1 OF 3
SANITARY SEWER AND DRAINAGE
DETAILS - 3

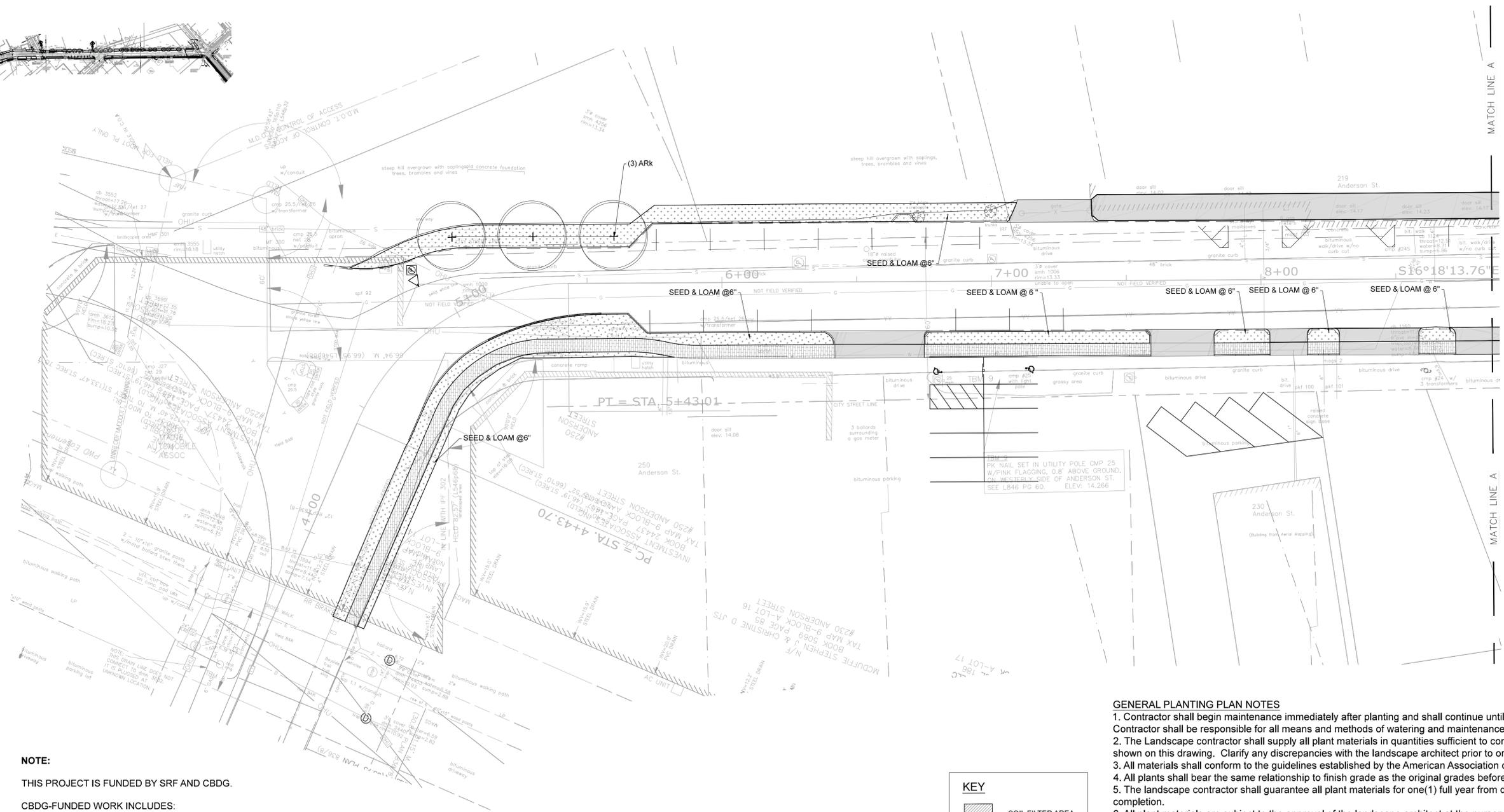
CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
ENGINEERING DIVISION



X:\227552\Portland-City_Eng_Specs\wp155 Anderson Phase II\Drawings\Civil\227552-10 DETAILS.dwg, Sep. 15, 2015 - 11:04am



KEY PLAN



NOTE:
 THIS PROJECT IS FUNDED BY SRF AND CBDG.
 CBDG-FUNDED WORK INCLUDES:
 - ALL AREAS IDENTIFIED AS 'SEED & LOAM @ 6"
 - HERBACEOUS PERENNIAL AREAS NOT IN SOIL FILTERS
 - (12) OF 24 TOTAL TREES
 THE REMAINDER OF THE WORK IS FUNDED BY SRF.

HERBACEOUS PERENNIAL TOTALS:
 (882) IN SOIL FILTER AREAS
 (2402) IN ALL OTHER AREAS

SCHEDULE OF TOPSOIL

LOCATION	DEPTH	DESCRIPTION
SEEDING AREAS	6"	LOAM (SEE SPECIFICATIONS) - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.
GRASSES & PERENNIALS (EXCLUDING SOIL FILTER AREAS)	18"	PLANTING SOIL (SEE SPECIFICATIONS) - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.
SOIL FILTER AREAS	18" MIN.	SEE CIVIL ENGINEER DRAWINGS FOR SOIL FILTER PROFILES. PERENNIALS & GRASSES TO BE PLANTED IN 18" MIN. PLANTING SOIL.
TREE PITS	18" +	PLANTING SOIL (SEE SPECIFICATIONS) - CONTRACTOR TO FURNISH LANDSCAPE ARCHITECT WITH SAMPLE PRIOR TO USE.

NOTE: A MINIMUM OF 2" DARK AGED HEMLOCK MULCH SHALL BE SPREAD IN ALL PLANTED AREAS.

KEY

	SOIL FILTER AREA
	6" LOAM & SEED

ANDERSON STREET PHASE II - OVERALL PLANTING SCHEDULE

ANDERSON STREET PHASE II - OVERALL PLANTING SCHEDULE							AUG. 2015
TYPE	QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	
Loam & Seed							
	18,355 SF						
Grasses & Perennials							
	133	AM	Achillea millefolium 'Coronation Gold'	Coronation Gold Yarrow	#1	CONT.	
	572	DC	Deschampsia caespitosa 'Goldtau'	Goldtau Tufted Hairgrass	#1	CONT.	
	68	ED	Eupatorium dubium 'Little Joe'	Joe Pye Weed	#1	CONT.	
	192	MS	Monarda 'Scorpion'	Scorpion Beebalm	#1	CONT.	
	794	PV	Panicum virgatum 'Shenandoah'	Shenandoah Switchgrass	#1	CONT.	
	201	RF	Rudbeckia fulgida	Black-Eyed Susan	#1	CONT.	
	650	SH	Sporobolus heterolepis	Prairie Dropseed	#1	CONT.	
	674	SS	Schizachyrium scoparium 'The Blues'	Little Bluestem	#1	CONT.	
Trees							
	25	AR	Acer rubrum 'Karpick'	Red Maple	2.25-2.5" cal.	B&B	

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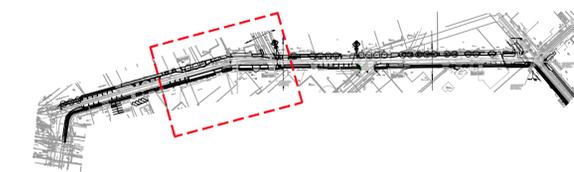
4 HUTCHINS DRIVE
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WOODARD & CURRAN
 COMMITMENT & INTEGRITY DRIVE RESULTS

Richardson & Associates
 Landscape Architects

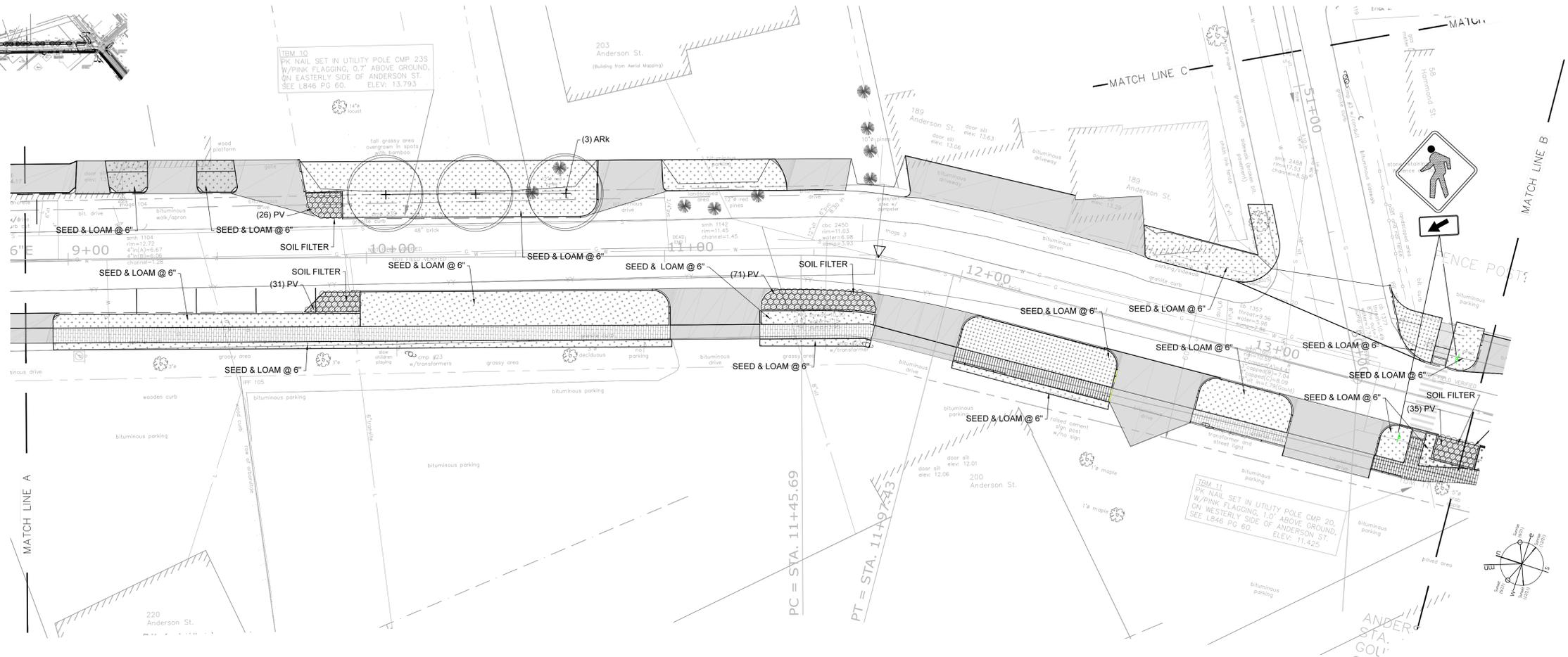
DESIGNED BY: DM
 DRAWN BY:
 CHECKED BY:
 SCALE: 1"=20'
 DATE: AUGUST 2015

**ANDERSON STREET
 NEIGHBORHOOD BYWAY PROJECT
 PHASE 2 OF 2 - CONTRACT 1 OF 3
 PLANTING PLAN**

CITY OF PORTLAND, MAINE
 PUBLIC SERVICES DEPARTMENT
 ENGINEERING DIVISION



KEY PLAN



41 HUTCHINS DRIVE
PORTLAND, MAINE 04102
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ANDERSON STREET
NEIGHBORHOOD BYWAY PROJECT
PHASE 2 OF 2 - CONTRACT 1 OF 3
PLANTING PLAN

CITY OF PORTLAND, MAINE
PUBLIC SERVICES DEPARTMENT
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SHEET #
13 OF 15
PLAN NUMBER

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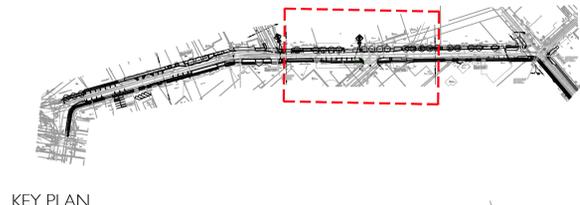
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KEY

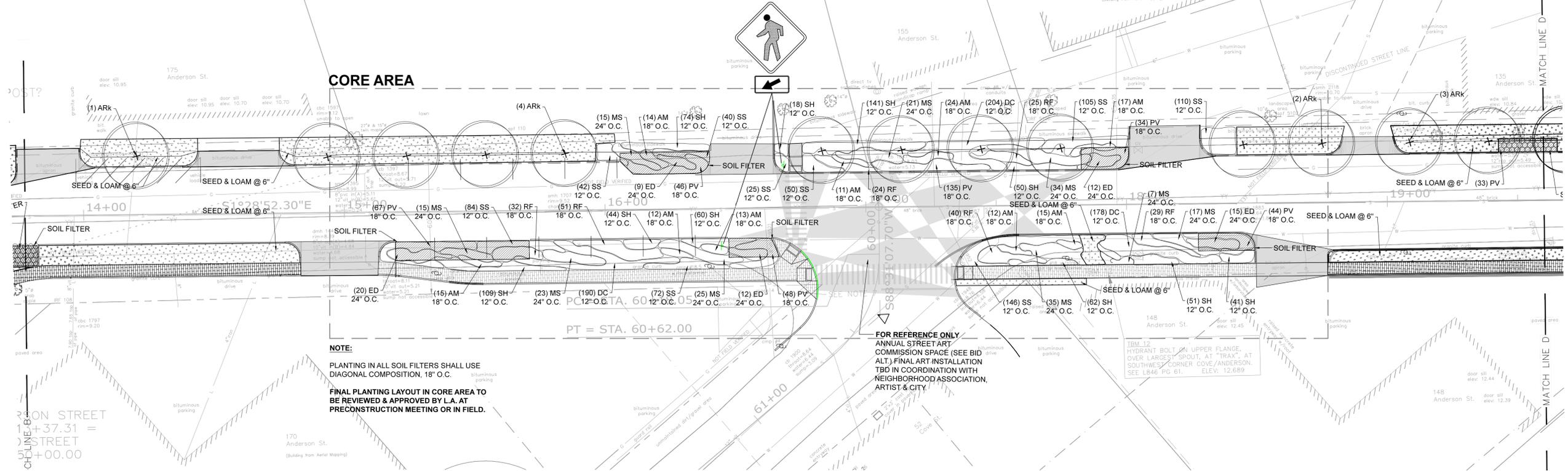
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KEY PLAN



CORE AREA

NOTE:
 PLANTING IN ALL SOIL FILTERS SHALL USE DIAGONAL COMPOSITION, 18" O.C.
 FINAL PLANTING LAYOUT IN CORE AREA TO BE REVIEWED & APPROVED BY L.A. AT PRECONSTRUCTION MEETING OR IN FIELD.

FOR REFERENCE ONLY
 ANNUAL STREET ART COMMISSION SPACE (SEE BID ALT). FINAL ART INSTALLATION TBD IN COORDINATION WITH NEIGHBORHOOD ASSOCIATION, ARTIST & CITY.

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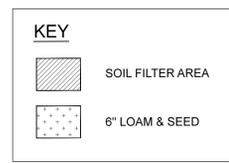
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ANDERSON STREET PHASE II - OVERALL PLANTING SCHEDULE

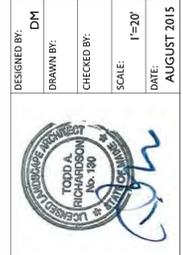
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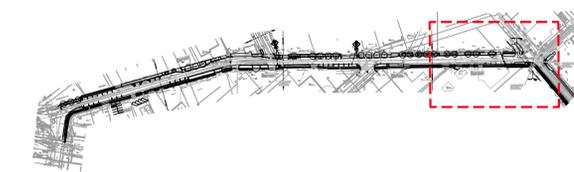
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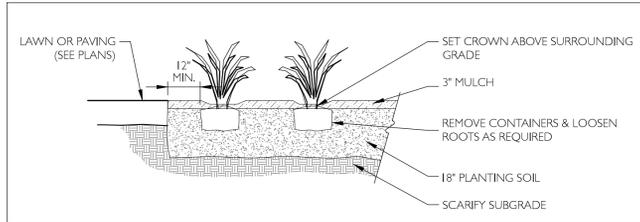
ANDERSON STREET
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 PHASE 2 OF 2 - CONTRACT 1 OF 3
PLANTING PLAN

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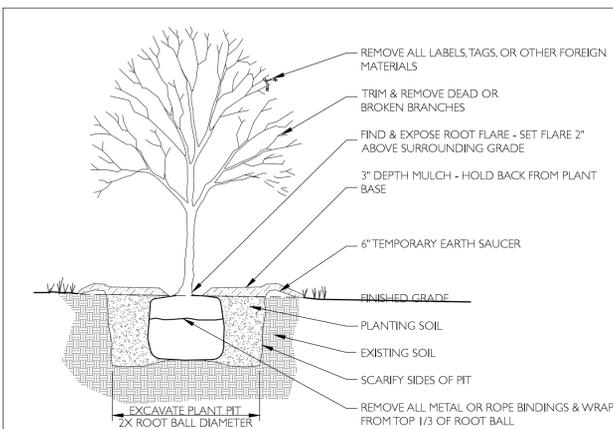




KEY PLAN



1 PERENNIAL/ORNAMENTAL GRASS PLANTING, TYP.
SCALE: NTS



- NOTES:
- TREE TO BE SET PLUMB.
 - SECURE TREE AS MAY BE REQUIRED ACCORDING TO TREE SIZE, LOCATION, & WIND/WEATHER CONDITIONS.
 - IF USING ROOTBALL STABILIZATION, FOLLOW MANUFACTURER'S RECOMMENDATIONS.

2 TREE PLANTING, TYP.
SCALE: NTS

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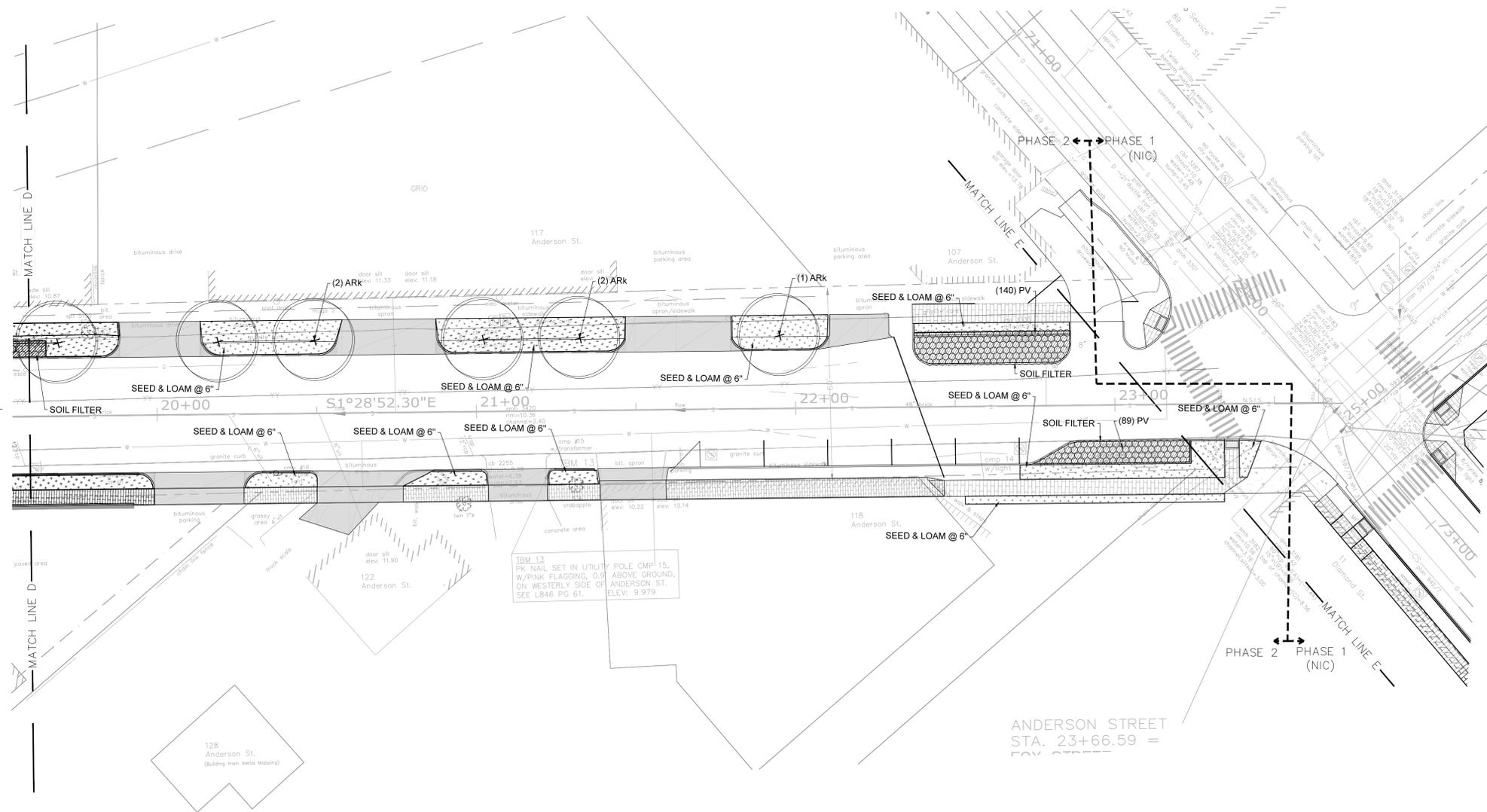
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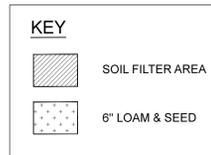
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ANDERSON STREET
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 PHASE 2 OF 2 - CONTRACT 1 OF 3
PLANTING PLAN & DETAILS

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SHEET #
15 OF 15
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