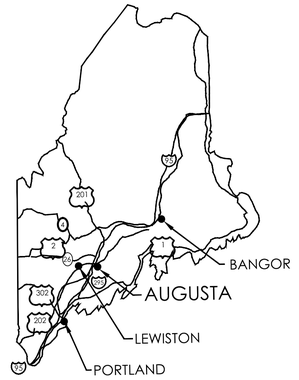
Stantec

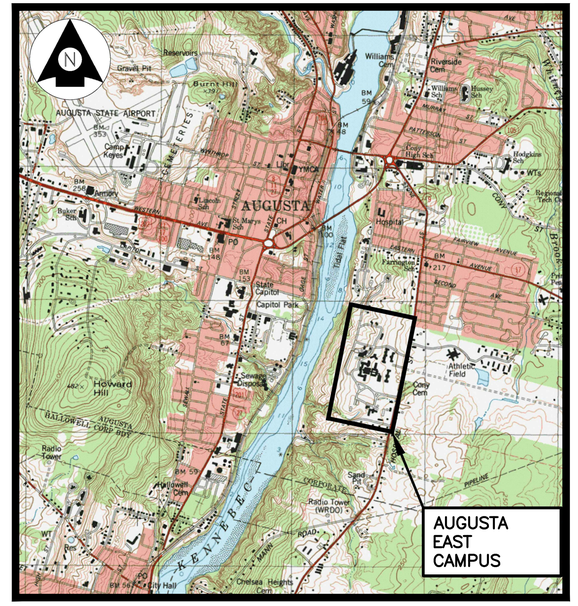
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS INFRASTRUCTURE IMPROVEMENTS CONTRACT 'A'

AUGUSTA, MAINE



LOCATION MAP



VICINITY MAP
NOT TO SCALE

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BID DOCUMENTS
DO NOT REVISE
SEPTEMBER 23, 2016

STATE OF MAINE — MICHAEL J. CLAIRDOLE — No. 7824 — LICENSED PROFESSIONAL ENGINEER — 9-23-16

STATE OF MAINE — DAVID P. NADEAU — No. 10683 — LICENSED PROFESSIONAL ENGINEER — 9/23/16

SEPTEMBER, 2016
STANTEC Project Number: 195210829

OWNER PROJECT CONTACT
JILL INSTASI, DIRECTOR OF SPECIAL PROJECTS
STATE OF MAINE, BUREAU OF GENERAL SERVICES
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES

ENGINEER PROJECT CONTACT
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Drawing No.	Sheet
A-G001	1 of 36

ORIGINAL SHEET – ARCH D

CIVIL LEGENDS

GENERAL NOTES

1. EXISTING TOPOGRAPHIC CONDITIONS AND PLANIMETRICS ARE BASED ON A FIELD SURVEY CONDUCTED BY STANTEC CONSULTING SERVICES INC. IN MARCH – MAY 2016. ADDITIONAL DATA, INCLUDING UNDERGROUND UTILITIES AND STRUCTURES WERE TAKEN FROM AS–BUILT DRAWINGS PROVIDED TO STANTEC BY THE OWNER AND HAVE NOT BEEN FIELD VERIFIED BY STANTEC.

2. IF FIELD CONDITIONS DIFFER FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER FOR INSTRUCTION.

3. COORDINATE GRID IS MAINE STATE PLANE COORDINATE SYSTEM: HORIZONTAL DATUM IS NAD83, WEST ZONE (2000); VERTICAL DATUM IS NAVD88, U.S. FEET.

4. WORK WILL BE OCCURRING ADJACENT TO ACTIVE ROADWAYS AND PARKING LOTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY SIGNAGE, FENCING, BARRIERS, LIGHTING AND ANY OTHER MEASURES NEEDED TO PROTECT THE PUBLIC FROM WORK ACTIVITIES, EQUIPMENT AND EXCAVATIONS. ALL OPEN EXCAVATIONS SHALL BE ADEQUATELY MARKED, FENCED AND LIGHTED TO PREVENT ENTRY AND INJURY TO THE GENERAL PUBLIC. EXISTING FACILITIES THAT ARE INTENDED TO REMAIN SHALL BE PROTECTED AT ALL TIMES BY THE CONTRACTOR TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DAMAGE SAID FACILITIES, INCLUDING SHORING / BRACING OF EXISTING WALLS, FOUNDATIONS AND PAVEMENTS DURING EXCAVATION ACTIVITIES. ANY DAMAGE TO EXISTING FACILITIES OR STRUCTURES SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER, WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

5. THE LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN ON THE PLANS ARE APPROXIMATE, AND BASED ON AVAILABLE PLANS AND SURFACE STRUCTURES. NO GUARANTEE IS MADE OR IMPLIED BY STANTEC OR THE OWNER AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUFFICIENT INVESTIGATION AS HE/SHE DEEMS NECESSARY TO DETERMINE THE EXTENT AND EXACT LOCATION OF BURIED UTILITIES AND STRUCTURES ON THE SITE PRIOR TO PROCEEDING WITH EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL EMPLOY A PRIVATE UTILITY LOCATING COMPANY FOR THIS EFFORT.

ANY DAMAGE TO UTILITIES OR STRUCTURES BY THE CONTRACTOR, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER, WITHOUT ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL CONTACT DIGSAFE (888–344–7233) PRIOR TO EXCAVATION. THE CONTRACTOR SHALL ALSO REVIEW THE OK–TO–DIG DIRECTORY (WWW.OKTODIG.COM) AND CONTACT ANY NON–DIGSAFE MEMBER ENTITIES LISTED PRIOR TO EXCAVATION.

6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE, AND SHALL BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED. ANY EROSION OR OFF–SITE SEDIMENT TRACKING THAT IS NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, AND THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION TO CLEAN/REPAIR THE AFFECTED AREAS AND TO PREVENT FURTHER EROSION OR OFF–SITE SEDIMENTATION. REFERENCE IS HEREBY MADE TO ENVIRONMENTAL PERMITS FOR THE PROJECT OBTAINED BY THE OWNER. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND CONDITIONS OF SAID PERMITS FOR THE LIFE OF THE PROJECT.

7. UNLESS OTHERWISE SHOWN ON THE PLANS, ALL MATERIALS USED IN THE PROJECT SHALL BE HEAVY–DUTY COMMERCIAL GRADE, MEETING THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE MAINE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL CONSTRUCTION METHODS AND PROCEDURES SHALL BE PERFORMED IN ACCORDANCE WITH GENERALLY ACCEPTED INDUSTRY CODES AND STANDARDS UNLESS STATED OTHERWISE IN THE CONTRACT DRAWINGS OR SPECIFICATIONS.

8. THE CONTRACTOR SHALL MAINTAIN ALL PUBLIC ROADWAYS USED BY ITS EQUIPMENT FREE OF MUD AND DEBRIS. A TEMPORARY STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT THE PROJECT SITE TO MINIMIZE OFF–SITE TRACKING OF MUD AND DEBRIS.

9. ALL CONTRACTOR VEHICLES AND EQUIPMENT SHALL BE CLEARLY MARKED ON BOTH SIDES WITH THE NAME OF THE COMPANY, AND SHALL INCLUDE A FLASHING STROBE LIGHT AND BACK UP INDICATORS IF WORKING IN OR ADJACENT TO THE PUBLIC WAY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION RELATED FIELD LAYOUT AS REQUIRED FOR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL EMPLOY A STATE OF MAINE LICENSED SURVEYOR TO STAKE–OUT THE LIMITS OF PROPOSED DEVELOPMENT (PAVEMENT EDGES, BUILDING FOUNDATIONS, CONCRETE SLABS, UTILITY RUNS, LIMITS OF DISTURBANCE, ETC.) FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO COMMENCING WITH WORK. THE CONTRACTOR SHALL GPS SURVEY **ALL** UTILITIES AND STRUCTURES ENCOUNTERED OR CONSTRUCTED FOR INCLUSION ON THE PROJECT AS–BUILT DRAWINGS. SUCH SURVEY SHALL BE PERFORMED PRIOR TO A UTILITY OR STRUCTURE BEING BACKFILLED AND SHALL BE TIED INTO THE PROJECT DATUM LISTED IN NOTE 3 ABOVE.

11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS, CODES AND REGULATIONS DURING PERFORMANCE OF THE WORK.

12. REFERENCE IS HEREBY MADE TO GEOTECHNICAL BORINGS CONDUCTED FOR THE PROJECT BY STANTEC CONSULTING SERVICES INC. OF AUBURN, NEW HAMPSHIRE. COPIES OF THE BORING LOGS ARE INCLUDED HERE–IN.

13. THERE IS NO WASTE DISPOSAL AREA LOCATED ON THE PROJECT SITE. ALL UNSUITABLE MATERIAL GENERATED DURING DEMOLITION AND EXCAVATION ACTIVITIES THAT IS NOT DESIGNED FOR RE–USE IN THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE NOTED. DISPOSAL OF CONSTRUCTION DEBRIS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

THE CONTRACTOR SHALL NOT EXCAVATE, REMOVE, OR OTHERWISE DISTURB ANY MATERIAL, STRUCTURE, OR PART OF A STRUCTURE WHICH IS LOCATED OUTSIDE THE LINES, GRADES, OR GRADING SECTIONS ESTABLISHED FOR THE WORK, EXCEPT WHERE SUCH EXCAVATION OR REMOVAL IS PROVIDED FOR IN THE CONTRACT, PLANS, OR SPECIFICATIONS.

14. ALL CONTRACTOR HAUL ROUTES, STAGING AND STOCKPILE AREAS SHALL BE RESTORED TO THEIR PRE–CONSTRUCTION CONDITION AT THE CONCLUSION OF THE PROJECT. THIS WORK IS CONSIDERED INCIDENTAL TO THE PROJECT, AND SHALL INCLUDE AT A MINIMUM: PLACING 6 INCHES OF TOPSOIL ON DISTURBED AREAS, SEEDING AND MULCHING. THE CONTRACTOR SHALL VIDEO THE ENTIRE WORK SITE, INCLUDING PROPOSED HAUL ROUTES, STAGING AND STOCKPILE AREAS, PRIOR TO COMMENCEMENT OF WORK. A COPY OF THIS VIDEO SHALL BE PROVIDED TO THE ENGINEER.

PROPOSED LEGEND

- PROPOSED BOUND
- PROPOSED BENCHMARK
- PROPOSED CATCH BASIN (SQUARE)
- PROPOSED CATCH BASIN (ROUND)
- PROPOSED COMMUNICATION MANHOLE
- PROPOSED CURB INLET
- PROPOSED DRAIN MANHOLE (DMH)
- PROPOSED DRILL HOLE
- PROPOSED ELECTRICAL MANHOLE
- PROPOSED GUY POLE
- PROPOSED SURVEY POINT
- PROPOSED IRON PIN
- PROPOSED NATURAL GAS MANHOLE
- PROPOSED HYDRANT
- PROPOSED SANITARY SEWER MANHOLE (SMH)
- PROPOSED SINGLE POLE SIGN
- PROPOSED DOUBLE POLE SIGN
- PROPOSED TELEPHONE MANHOLE
- TP1 PROPOSED TEST PIT
- B1 PROPOSED BORING
- PROPOSED UTILITY POLE
- PROPOSED WATER SHUTOFF
- PROPOSED GATE VALVE
- PROPOSED WELL
- PROPOSED FLOOD LIGHT
- PROPOSED LIGHT POST
- PROPOSED DRAINAGE FLOW
- PROPOSED CONIFEROUS TREE
- PROPOSED DECIDUOUS TREE
- PROPOSED CATCH BASIN INLET PROTECTION
- PROPOSED 30' HIGH LIGHT POST
- N PROPOSED NEW 13–6' HIGH LIGHT POST
- R PROPOSED RELOCATED 13–6' HIGH LIGHT POST ON NEW FOUNDATION

- 100 PROPOSED MAJOR CONTOUR
- 98 PROPOSED MINOR CONTOUR
- X 95.5 PROPOSED SPOT ELEVATION
- PROPOSED RAILROAD TRACKS
- PROPOSED DITCH/SWALE
- PROPOSED EDGE OF RIVER
- PROPOSED EDGE OF POND
- PROPOSED EDGE OF WETLAND
- PROPOSED DEMOLITION WORK
- PROPOSED EASEMENT
- PROPOSED LIMITS OF CONSTRUCTION
- PROPOSED RIGHT OF WAY
- PROPOSED PROPERTY LINE
- G PROPOSED FUEL GAS
- GAS PROPOSED NATURAL GAS
- OHE PROPOSED OVERHEAD POWER
- UGE PROPOSED UNDERGROUND POWER
- CATV PROPOSED CABLE TV
- T PROPOSED OVERHEAD TELEPHONE
- UGT PROPOSED UNDERGROUND TELEPHONE
- S PROPOSED SANITARY SEWER
- FM PROPOSED SANITARY SEWER (FORCE MAIN)
- W PROPOSED WATER MAIN
- PS PROPOSED PRESSURE STEAM
- SD PROPOSED STORM DRAIN
- UD PROPOSED FOOTING UNDERDRAIN
- RD PROPOSED ROOF DRAIN
- FP PROPOSED FIRE PROTECTION
- PROPOSED GUARD RAIL
- PROPOSED FENCE (BARBED WIRE)
- PROPOSED FENCE (CHAIN LINK)
- PROPOSED FENCE (WOODEN)
- PROPOSED RETAINING WALL
- PROPOSED STONE WALL
- PROPOSED SILT FENCE
- PROPOSED HAYBALES
- PROPOSED TREE LINE
- PROPOSED EDGE OF BITUMINOUS ROADWAY/PARKING LOT
- PROPOSED EDGE OF BITUMINOUS SIDEWALK
- PROPOSED BUILDING
- PROPOSED REMOVAL OF EXISTING PAVEMENT
- PROPOSED CONCRETE RAMP
- PROPOSED CONCRETE RAMP WITH DETECTABLE WARNING PANEL
- PROPOSED RIPRAP
- PROPOSED BITUMINOUS CURB
- PROPOSED GRANITE CURB
- PROPOSED REMOVAL OF EXISTING PAVEMENT AND SITE RESTORATION

EXISTING LEGEND

- EXISTING BOUND
- EXISTING BENCHMARK
- EXISTING SURVEY POINT
- EXISTING CATCH BASIN (SQUARE)
- EXISTING CATCH BASIN (ROUND)
- EXISTING COMMUNICATION MANHOLE
- EXISTING CURB INLET
- EXISTING DRAIN MANHOLE (DMH)
- EXISTING ELECTRICAL MANHOLE
- EXISTING GUY POLE
- EXISTING HYDRANT
- EXISTING IRON PIN
- EXISTING NATURAL GAS MANHOLE
- EXISTING SEWER MANHOLE (SMH)
- EXISTING SINGLE POLE SIGN
- EXISTING DOUBLE POLE SIGN
- EXISTING FLOOD LIGHT
- EXISTING LIGHT POST
- MB EXISTING MAILBOX
- EXISTING DRAINAGE FLOW
- TP1 EXISTING TEST PIT
- B1 EXISTING BORING
- EXISTING STUMP
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- EXISTING WETLAND
- EXISTING TELEPHONE MANHOLE
- EXISTING UTILITY POLE
- EXISTING WATER SHUTOFF
- EXISTING GATE VALVE
- EXISTING WELL

- 100 EXISTING MAJOR CONTOUR
- 98 EXISTING MINOR CONTOUR
- EXISTING DITCH/SWALE
- EXISTING RAILROAD TRACKS
- EXISTING EDGE OF WATER
- EXISTING WETLAND BOUNDARY
- EXISTING EASEMENT
- EXISTING PROPERTY LINE
- EXISTING RIGHT–OF–WAY
- X 95.5 EXISTING SPOT ELEVATION
- G EXISTING FUEL GAS
- GAS EXISTING NATURAL GAS
- OHE EXISTING OVERHEAD POWER
- UGE EXISTING UNDERGROUND POWER
- S EXISTING SANITARY SEWER
- FM EXISTING SANITARY SEWER (FORCE MAIN)
- SD EXISTING STORM DRAIN
- PS EXISTING PRESSURE STEAM
- W EXISTING WATER MAIN
- CATV EXISTING CABLE TV
- T EXISTING OVERHEAD TELEPHONE
- UGT EXISTING UNDERGROUND TELEPHONE
- EXISTING GUARD RAIL
- X X X EXISTING FENCE
- EXISTING CHAINLINK FENCE
- EXISTING WOODEN FENCE
- EXISTING RETAINING WALL
- EXISTING HAYBALES
- EXISTING STONE WALL
- EXISTING TREE/SHRUB LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING EDGE OF GRAVEL
- EXISTING CURB
- EXISTING BUILDING
- EXISTING RIPRAP
- EXISTING LEDGE OUTCROP

PROJECT ABBREVIATIONS

BGS	STATE OF MAINE, BUREAU OF GENERAL SERVICES
BVCE	BEGINNING VERTICAL CURVE ELEVATION
BVCS	BEGINNING VERTICAL CURVE STATION
CB	CATCH BASIN
CC	CENTER TO CENTER
CO	SEWER CLEANOUT
CMP	CORRUGATED METAL PIPE
DMH	DRAIN MANHOLE
E	EASTING (MAINE STATE PLANE GRID)
EG	EXISTING GRADE
ELEV	ELEVATION (FEET)
EVCE	ENDING VERTICAL CURVE ELEVATION
EVCS	ENDING VERTICAL CURVE STATION
EXIST	EXISTING
FG	FINISHED GRADE
FF	FINISHED FLOOR
FM	FORCEMAIN
HC	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
ID	INNER DIAMETER
INV	INVERT (BOTTOM INSIDE OF PIPE)
K	RATE OF VERTICAL CURVATURE
L	LENGTH
LVC	LENGTH OF VERTICAL CURVE
N	NORTHING (MAINE STATE PLANE GRID)
N/F	NOW OR FORMERLY
NG	NATURAL GAS
NTS	NOT TO SCALE
OC	ON-CENTER
OCS	OUTLET CONTROL STRUCTURE
OD	OUTER DIAMETER
OWS	OIL / WATER SEPARATOR
PC	POINT OF CURVATURE (START OF HORIZONTAL CURVE)
PE	POLYETHYLENE
PL	PROPERTY LINE
PROP	PROPOSED
PS	PUMP STATION
PT	POINT OF TANGENCY (END OF HORIZONTAL CURVE)
PVC	POLYVINYL CHLORIDE
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
PVIS	POINT OF VERTICAL INTERSECTION STATION
RCP	REINFORCED CONCRETE PIPE
S	SLOPE
SD	STORMDRAIN
SF	SILT FENCE
SMH	SEWER MANHOLE
SS	SANITARY SEWER
STA	STATION
TELCOM	TELEPHONE - COMMUNICATIONS
TEMP	TEMPORARY
TD	TRENCH DRAIN
TYP	TYPICAL

Stantec

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Notes

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued

File Name:

Dwn. Chkd. Dsgn. YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

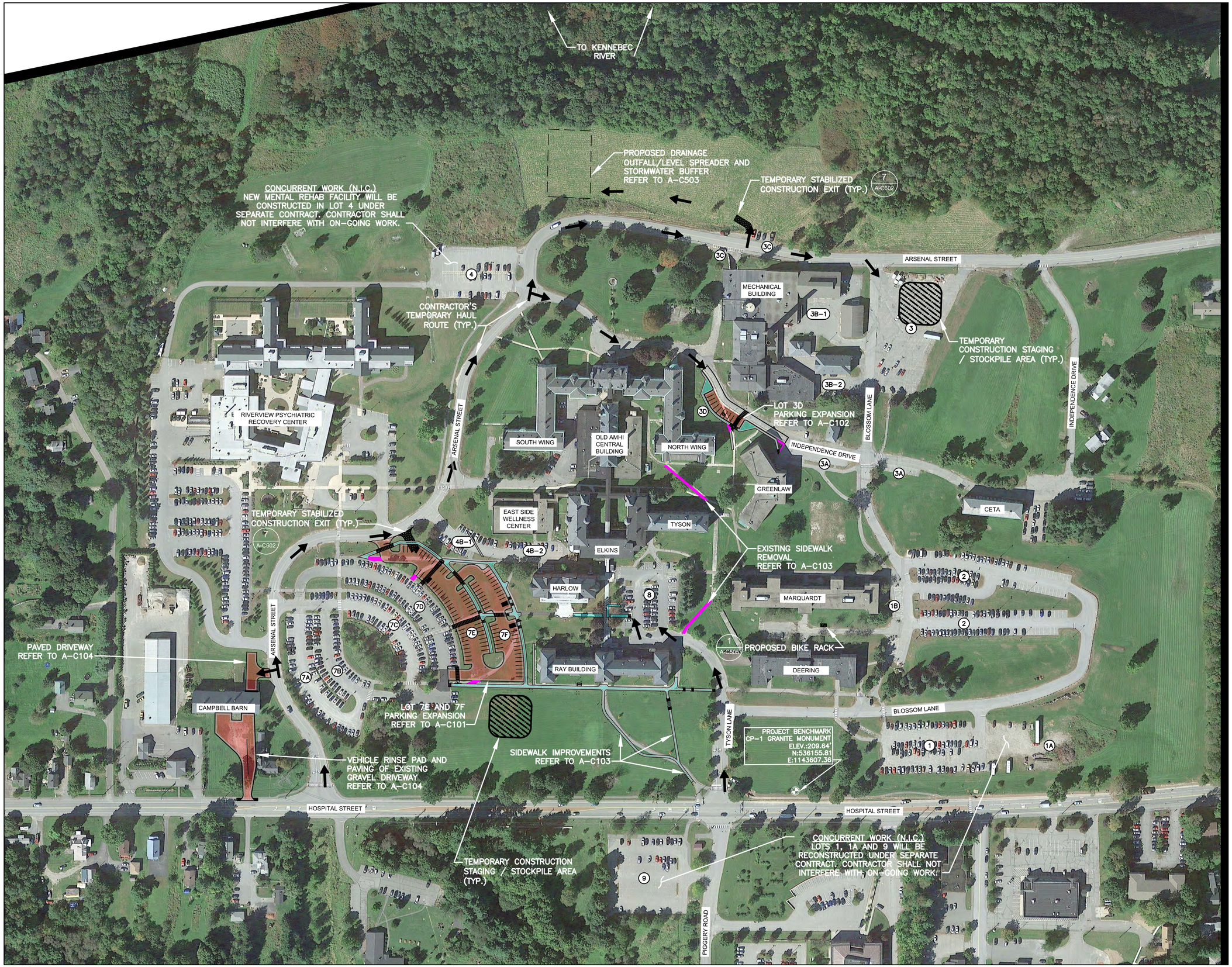
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
GENERAL NOTES
AND LEGEND

Project No. 195210829
Scale AS NOTED
Drawing No. A-G002
Sheet 2 of 36
Revision 0

ORIGINAL SHEET - ARCH D



0 100' 200'

Notes

- 3C — PARKING LOT ID
- PROPOSED SIDEWALK IMPROVEMENTS
- PROPOSED PARKING / ROAD IMPROVEMENTS
- EXISTING SIDEWALK REMOVAL
- TEMPORARY CONSTRUCTION HAUL ROUTE
- TEMPORARY STABILIZED CONSTRUCTION EXIT
- TEMPORARY CONSTRUCTION STAGING / STOCKPILE AREA. (CONTRACTOR SHALL ENCLOSE WITH TEMPORARY CHAINLINK SECURITY FENCE AND INSTALL SILT FENCE BARRIER IN TURF AREAS)

Stantec

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Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_C-001_site_pln.dwg	Dwn.	Chkd.	Dsgn.
	DPN	DPN	DPN
			16.04.26

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
GENERAL SITE PLAN

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C001	3 of 36	0

ORIGINAL SHEET - ARCH D

B-1

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: 7
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-1

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	3 inches of Topsoil						
	Medium dense, grey-brown, SILT, some fine Sand (Dry)	SS	1	11	5 12 12 10	24	
	Medium dense, grey-brown, clayey SILT, some fine Sand, (wet)	SS	2	16	4 5 7 7	12	
5	Firm, grey-brown, clayey SILT (damp)	SS	3	21	3 4 4 5	8	
	Firm, grey-brown, clayey SILT (damp)	SS	4	24	4 4 4 8	8	
	Very stiff, grey-brown, clayey SILT (damp)	SS	5	19	5 10 11 11	21	
10	Bottom of boring at 10 feet. No Refusal.						
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-2

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/13/2016 to 5/13/2016
WATER LEVEL: NE
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-2

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	4 inches of Topsoil						
	Medium dense, grey-brown, fine to medium SAND, some Silt, little Gravel -FILL-	SS	1	13	1 3 14 20	17	
	Stiff, brown, clayey SILT (damp)	SS	2	10	3 3 8 8	11	
5	Stiff, grey-brown, clayey SILT (damp)	SS	3	24	3 5 7 11	12	
	Very stiff, grey-brown, clayey SILT (damp)	SS	4	24	6 9 12 17	21	
	Very stiff, grey-brown, clayey SILT (damp)	SS	5	24	5 8 8 10	16	
10	Bottom of boring at 10 feet. No Refusal.						
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-3

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: 7
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-3

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	5 inches of Topsoil						
	Medium dense, grey-brown, SILT, some fine to medium Sand, trace coarse Sand (Damp) -FILL-	SS	1	13	3 6 6 7	12	
	Very dense, brown, medium to fine SAND, some Silt, trace Gravel (Damp)	SS	2	11	27 30 32 13	62	
5	Firm, grey-brown, clayey SILT (wet)	SS	3	14	3 3 4 5	7	
	Firm, grey-brown, clayey SILT (wet)	SS	4	24	3 3 4 5	7	
	Very stiff, grey-brown, clayey SILT (wet)	SS	5	19	3 8 11 13	19	
10	Bottom of boring at 10 feet. No Refusal.						
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-4

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: NE
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-4

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	5 inches of Topsoil						
	Medium dense, grey-brown, medium to fine SAND, little Gravel, little Silt -FILL-	SS	1	10	3 7 10 7	17	
	Stiff, grey-brown, clayey SILT	SS	2	7	6 6 7 8	13	
5	Stiff, grey-brown, clayey SILT (damp)	SS	3	21	3 3 5 6	8	
	Stiff, grey-brown, clayey SILT (damp)	SS	4	24	4 5 7 9	12	
	Stiff, grey-brown, clayey SILT (damp)	SS	5	24	6 6 7 8	13	
10	Bottom of boring at 10 feet. No Refusal.						
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-5

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: 9.8
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-5

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	Stiff, brown, clayey SILT, with organics	SS	1	12	5 7 8 10	15	
	Stiff, grey-brown, clayey SILT (damp)	SS	2	23	5 5 5 7	10	
5	Stiff, grey-brown, clayey SILT (damp)	SS	3	20	4 4 4 5	8	
	Stiff, grey-brown, clayey SILT (wet)	SS	4	20	4 4 4 5	8	
	Medium Dense, brown, medium to fine SAND, some Silt, little Gravel (wet)	SS	5	11	2 7 8 18	15	
10	Bottom of boring at 10 feet. No Refusal.						
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-7

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: 5
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-7

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	Loose, brown, fine SAND, some Silt with organics (dry) -FILL-	SS	1	11	2 2 3 3	5	
	Medium dense, fine SAND, little Silt (dry)	SS	2	18	3 5 6 7	11	
5	Dense, fine SAND, little Silt (dry)						
	Dense, fine SAND, some Silt, little Gravel (wet)	SS	3	17	5 16 20 51	36	
	Auger Refusal at 6.3 feet below ground surface. Probable bedrock.						
10							
15							
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

B-8

BOREHOLE LOG

CLIENT: State of Maine, Bureau of Genral Services
LOCATION: East Campus, Augusta, ME
EXPLORATION DATE: 5/12/2016 to 5/12/2016
WATER LEVEL: 12
DATUM:
PROJECT No. 195210829
EXPLORATION No. B-8

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLES TYPE	NUMBER	RECOVERY (in.)	SPT blows / 6"	SPT N-Value	PID Reading (PPM)
0	3 inches of Topsoil						
	Firm, brown, SILT, some fine SAND,	SS	1	12	3 4 4 4	8	
	Stiff, grey-brown, clayey SILT (damp)	SS	2	20	4 5 8 7	13	
5	Stiff, grey-brown, clayey SILT (wet)	SS	3	21	3 3 8 9	11	
	Very stiff, grey-brown, clayey SILT (wet)	SS	4		5 9 14 14	23	
	Very stiff, grey, clayey SILT (wet)	SS	5	24	5 7 10 10	17	
10							
15	Firm, grey, clayey SILT (wet)	SS	6	19	3 2 2 2	4	
	Bottom of boring at 15 feet. No Refusal.						
20							

Undrained Shear Strength - tsf: 1 2 3 4
Water Content & Atterberg Limits: Wp W WL
Dynamic Penetration Test, blows/foot: ★
Standard Penetration Test, blows/foot: ●
10 20 30 40 50 60 70 80 90

Driller: New England Boring; Supervisor: Jason Ward
Mobile-53, ATV Rig, 2.25 inch ID HSA
Hammer Type: 140# Safety Hammer, free falling 30 inches

△ Unconfined Compression Test
□ Field Vane Test ■ Remolded
✕ Pocket Penetrometer / Torvane

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Notes

1. REFER TO EXISTING CONDITIONS PLANS FOR LOCATIONS OF BORE HOLES.
2. BORINGS CONDUCTED BY STANTEC CONSULTING SERVICES INC. OF AUBURN, N.H. ON MAY 13, 2016.

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

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File Name: A_C-002_boring_LOGS.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
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STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
BOREHOLE LOGS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C002	4 of 36	0

ORIGINAL SHEET - ARCH D

HARLOW BUILDING

RAY BUILDING

EAST SIDE WELLNESS CENTER

ARSENAL STREET

LOT 7F

LOT 7E

MATCH LINE DRWG A-C005

PROPOSED LIMITS OF CONSTRUCTION/DEMOLITION. REFER TO LAYOUT AND GRADING PLANS FOR LIMITS.

EXISTING BITUMINOUS SIDEWALK, BASE GRAVEL AND SUBBASE SHALL BE EXCAVATED AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.

LIMITS OF HMA SIDEWALK FULL DEPTH RECONSTRUCTION

LIMITS OF HMA SIDEWALK REGRADING

EXISTING CONCRETE SIDEWALK, BASE GRAVEL AND SUBBASE SHALL BE EXCAVATED AS NEEDED TO CONSTRUCT, PROPOSED FULL DEPTH HMA SIDEWALK.

EXISTING SITE LIGHT SHALL REMAIN AND BE PROTECTED FROM DAMAGE

EXISTING CONCRETE SLAB SHALL BE REMOVED.

EXISTING 12" SD SHALL BE REMOVED.

CATCH BASIN SHALL REMAIN. ADJUST GRATE/COVER TO PROPOSED GRADE. COORDINATE WORK WITH GREATER AUGUSTA UTILITY DISTRICT.

SAWCUT PAVEMENT FULL DEPTH AT LIMITS OF WORK.

EXISTING PARKING LOT 4B

CATCH BASIN SHALL REMAIN. REPLACE GRATE/COVER WITH NEW MANHOLE FRAME AND COVER. ADJUST TO PROPOSED GRADE. COORDINATE WORK WITH GREATER AUGUSTA UTILITY DISTRICT.

EXISTING 18" SD SHALL REMAIN UNDISTURBED.

EXISTING 12" SD SHALL BE REMOVED.

EXISTING 15" SD SHALL REMAIN UNDISTURBED.

8" ABANDONED WATER SHALL REMAIN UNDISTURBED.

EXISTING FEATURES SHALL REMAIN AND BE PROTECTED FROM DAMAGE (TYP).

12" WATER SHALL REMAIN UNDISTURBED.

ELECTRIC HANDHOLE SHALL BE REMOVED. REFER TO ELECTRICAL DRAWINGS FOR INTERCEPTED EXISTING CIRCUITS.

ABANDONED WATER SHALL BE REMOVED WITHIN LIMITS OF EXCAVATION AND CAPPED.

EXISTING BITUMINOUS SIDEWALK, BASE GRAVEL AND SUBBASE SHALL BE EXCAVATED AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.

EXISTING TOPSOIL WITHIN LIMITS OF CONSTRUCTION SHALL BE SALVAGED FOR RE-USE. EXCAVATE SUBGRADE AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.

8" WATER SHALL REMAIN UNDISTURBED.

GEOTECHNICAL EXPLORATION (TYP.) REFER TO A-C002 AND A-C003

EXISTING SITE LIGHT SHALL REMAIN AND BE PROTECTED FROM DAMAGE

6" ABANDONED WATER SHALL BE REMOVED WITHIN LIMITS OF EXCAVATION AND CAPPED.

SAWCUT PAVEMENT FULL DEPTH AT LIMITS OF WORK

EXISTING BITUMINOUS SIDEWALK SHALL REMAIN

VERTICAL GRANITE CURBING SHALL BE REMOVED AND STOCKPILED FOR REUSE

EXISTING SIGNS AND POSTS SHALL BE REMOVED. SALVAGE SIGNS FOR RE-INSTALLATION ON NEW POSTS. (TYP.)

EXISTING BITUMINOUS SIDEWALK SURFACE SHALL BE REMOVED AND SIDEWALK BASE GRAVEL SHALL BE REGRADED.

SAWCUT PAVEMENT FULL DEPTH AT LIMITS OF WORK

UNDERGROUND POWER AND COMMUNICATION LINES SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE. HAND DIG TO LOCATE AS NECESSARY. EXCAVATE BEDDING AND BLANKET MATERIAL TO ALLOW FOR CONSTRUCTION OF CONCRETE ENCASEMENT. PROVIDE TEMPORARY SUPPORTS OF CONDUITS AS NECESSARY.

EXISTING PARKING LOT 7A-7D

15KV PRIMARY POWER

CATCH BASIN SHALL REMAIN. ADJUST GRATE/COVER TO PROPOSED GRADE. COORDINATE WORK WITH GREATER AUGUSTA UTILITY DISTRICT.

EXISTING 15" SD SHALL REMAIN UNDISTURBED.

EXISTING FEATURE SHALL REMAIN AND BE PROTECTED FROM DAMAGE (TYP).

EXISTING BITUMINOUS SIDEWALK, BASE GRAVEL AND SUBBASE SHALL BE EXCAVATED AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.

EXISTING SITE LIGHT SHALL BE RELOCATED (TYP.). REMOVE AND DISPOSE OF EXISTING FOUNDATION

SAWCUT PAVEMENT FULL DEPTH AT LIMITS OF WORK (TYP.)

B1 B2 B3 B4

0 20' 40'

ORIGINAL SHEET - ARCH D

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Notes
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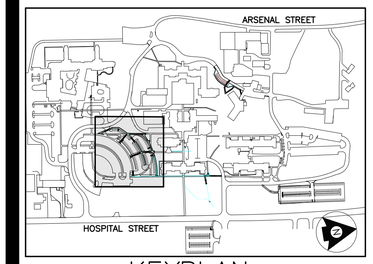
2. ALL WORK INVOLVING DEMOLIITON AND/OR ADJUSTMENT OF EXISTING WATER, SEWER AND STORMDRAIN SYSTEMS SHALL BE COORDINANTED WITH THE GREATER AUGUSTA UTILITY DISTRICT (GAUD). CONTRACTOR SHALL NOTIFY GAUD PRIOR TO WORK AND SHALL PERMIT REPRESENTATIVES FROM GAUD TO INSPECT THE WORK AT GAUD'S DISCRETION.
3. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED FROM DAMAGE UNLESS SPECIFICALLY SHOWN TO BE REMOVED/ADJUSTED.

LEGEND

- PAVEMENT REMOVAL
- REMOVE PIPES / UTILITIES / CURBS
- LIMITS OF CONSTRUCTION/ DEMOLITION (REFER TO LAYOUT AND GRADING PLANS FOR LIMITS)
- D — EXISTING FEATURES TO BE REMOVED AND DISPOSED
- R — EXISTING FEATURES TO BE REMOVED AND RELOCATED



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
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Issued

File Name: A_C-003_exist_demo_lot_7E_7F.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	DPN	DPN		16.05.12

STATE OF MAINE
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9/23/16

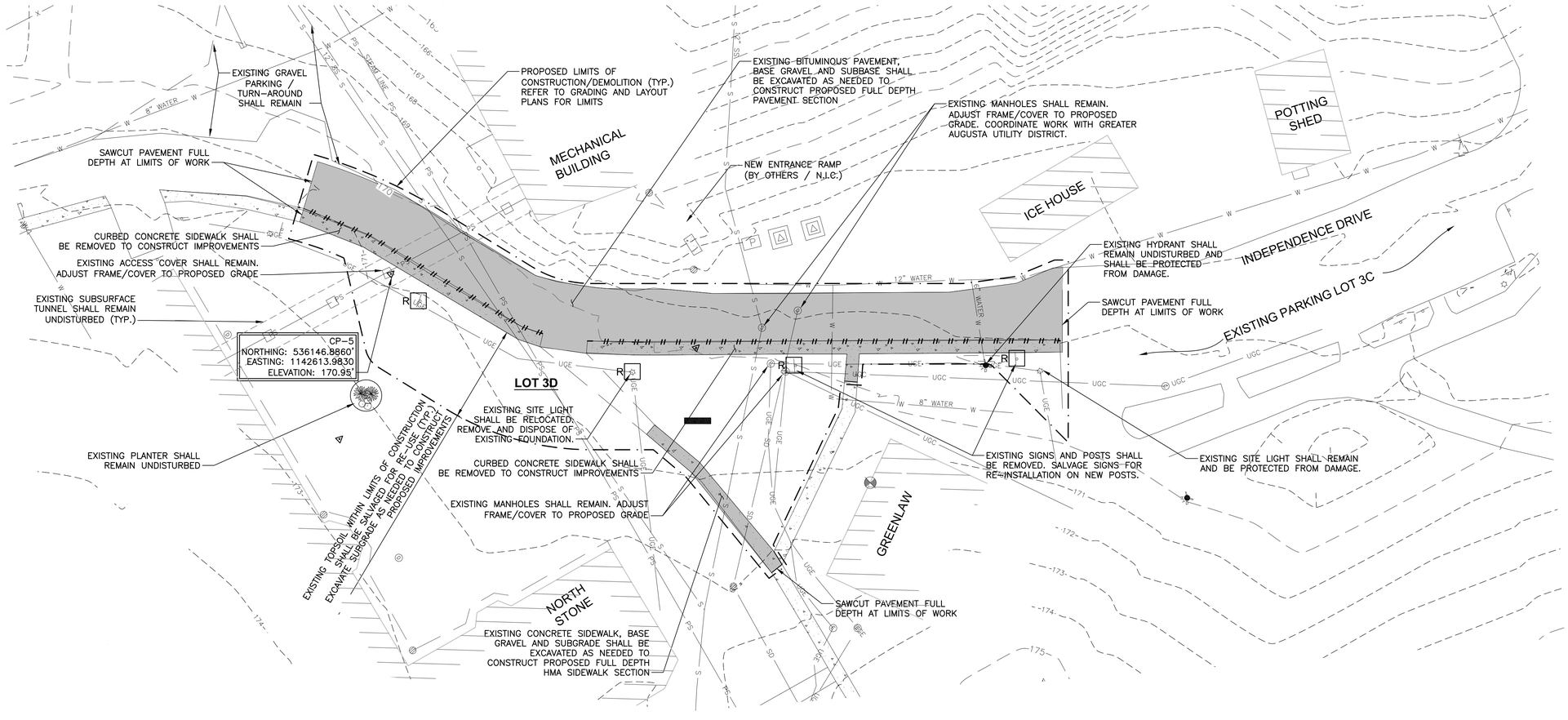
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
EXISTING CONDITIONS AND DEMOLITION PLAN
LOT NO. 7E AND 7F

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C003	5 of 36	0



ORIGINAL SHEET - ARCH D

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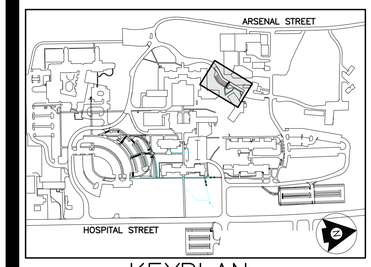
3. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED FROM DAMAGE UNLESS SPECIFICALLY SHOWN TO BE REMOVED/ADJUSTED.

LEGEND

- PAVEMENT REMOVAL
- REMOVE PIPES / UTILITIES / CURBS
- LIMITS OF CONSTRUCTION/ DEMOLITION (REFER TO LAYOUT AND GRADING PLANS FOR LIMITS)
- D — EXISTING FEATURES TO BE REMOVED AND DISPOSED
- R — EXISTING FEATURES TO BE REMOVED AND RELOCATED



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD
File Name: A_C-004_exist_demo_lot_3D.dwg	DPN Dwn.	DPN Chkd.	16.05.12 Dsgn. YY.MM.DD

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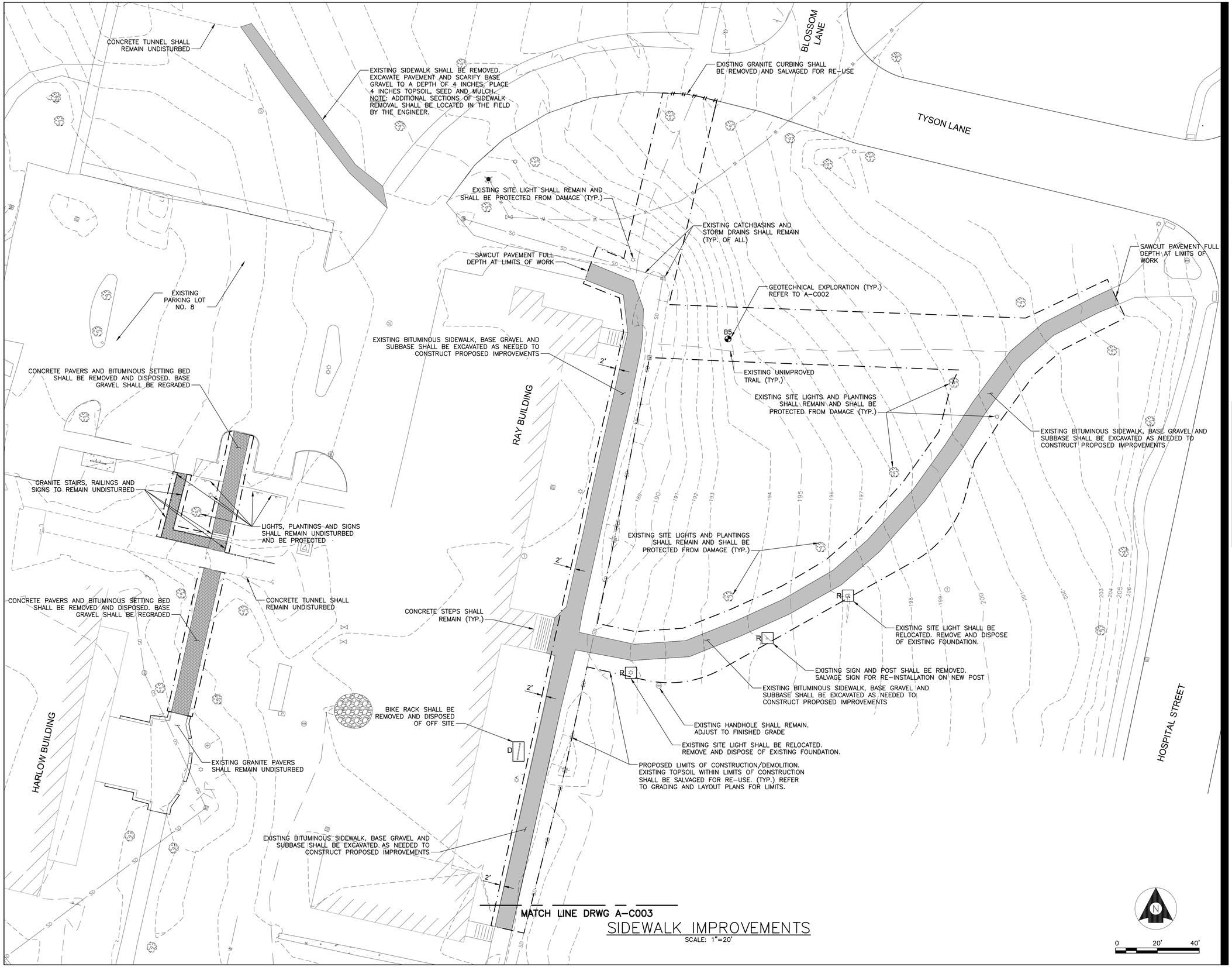
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
EXISTING CONDITIONS AND DEMOLITION PLAN
LOT NO. 3D

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C004	6 of 36	0



SIDEWALK IMPROVEMENTS
SCALE: 1"=20'

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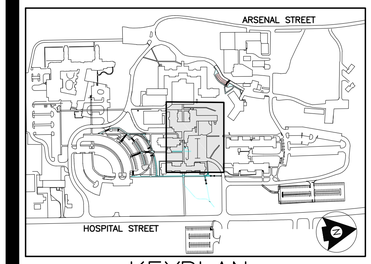
3. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED FROM DAMAGE UNLESS SPECIFICALLY SHOWN TO BE REMOVED/ADJUSTED.

LEGEND

- PAVEMENT REMOVAL
- REMOVE PIPES / UTILITIES / CURBS
- LIMITS OF CONSTRUCTION/ DEMOLITION (REFER TO LAYOUT AND GRADING PLANS FOR LIMITS)
- D — EXISTING FEATURES TO BE REMOVED AND DISPOSED
- R — EXISTING FEATURES TO BE REMOVED AND RELOCATED



KEYPLAN
SCALE: 1"=500'

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STATE OF MAINE
BUREAU OF GENERAL SERVICES

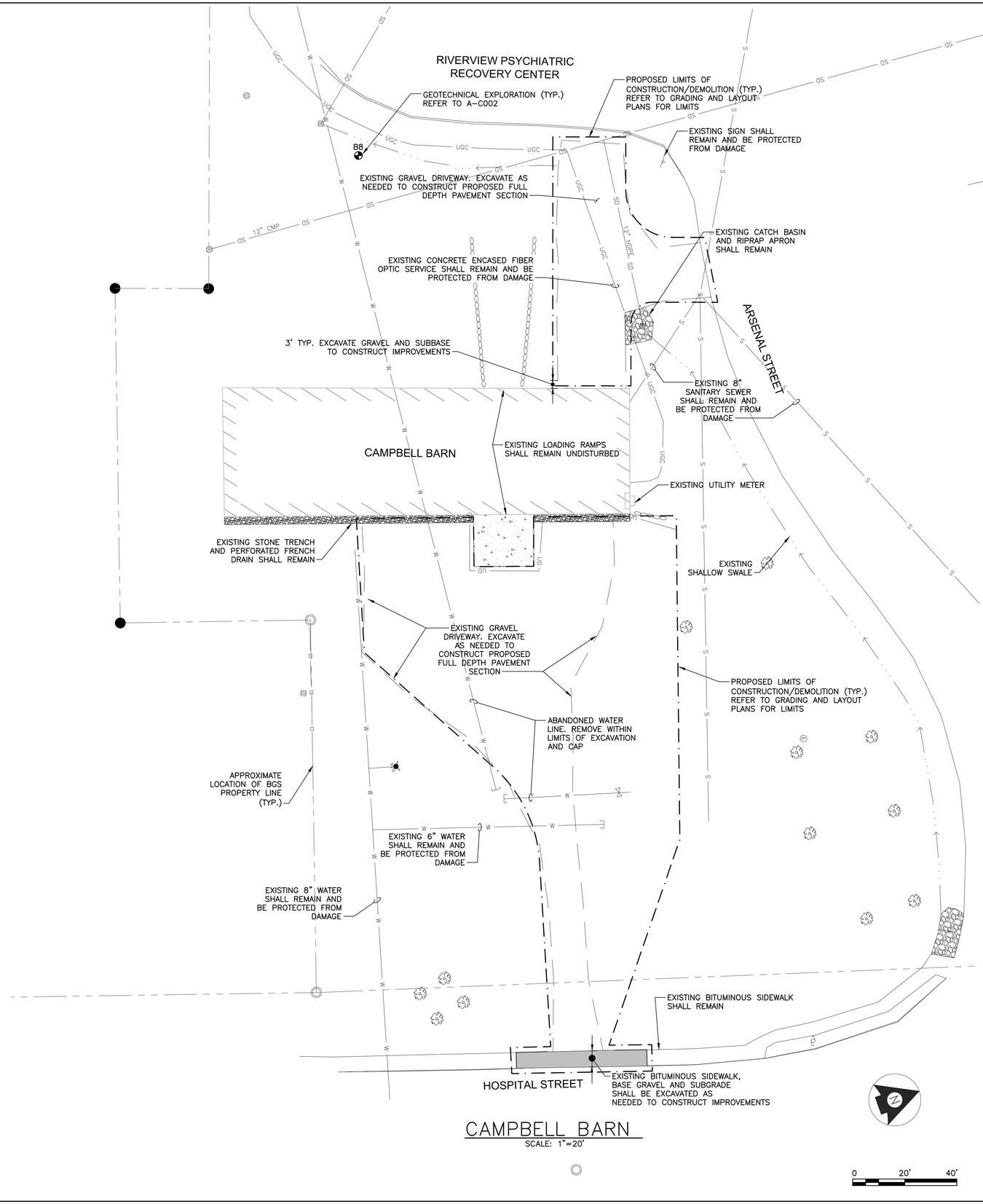
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
EXISTING CONDITIONS AND DEMOLITION PLAN; SIDEWALK IMPROVEMENTS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C005	7 of 36	0

ORIGINAL SHEET - ARCH D



CAMPBELL BARN
SCALE: 1"=20'

ORIGINAL SHEET - ARCH D

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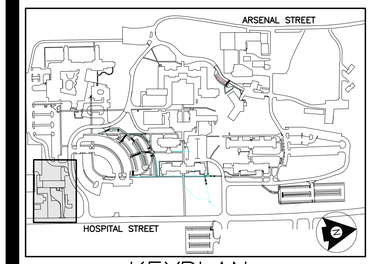
3. ALL EXISTING UTILITIES SHALL REMAIN AND BE PROTECTED FROM DAMAGE UNLESS SPECIFICALLY SHOWN TO BE REMOVED/ADJUSTED.

LEGEND

- PAVEMENT REMOVAL
- REMOVE PIPES / UTILITIES / CURBS
- LIMITS OF CONSTRUCTION/ DEMOLITION (REFER TO LAYOUT AND GRADING PLANS FOR LIMITS)
- D — EXISTING FEATURES TO BE REMOVED AND DISPOSED
- R — EXISTING FEATURES TO BE REMOVED AND RELOCATED



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued

	By	Appd.	YY.MM.DD
File Name: A_C-006_exist_demo_barn.dwg	DPN	DPN	16.05.12
	Dwn.	Chkd.	Dsgn. YY.MM.DD

STATE OF MAINE
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9/23/16

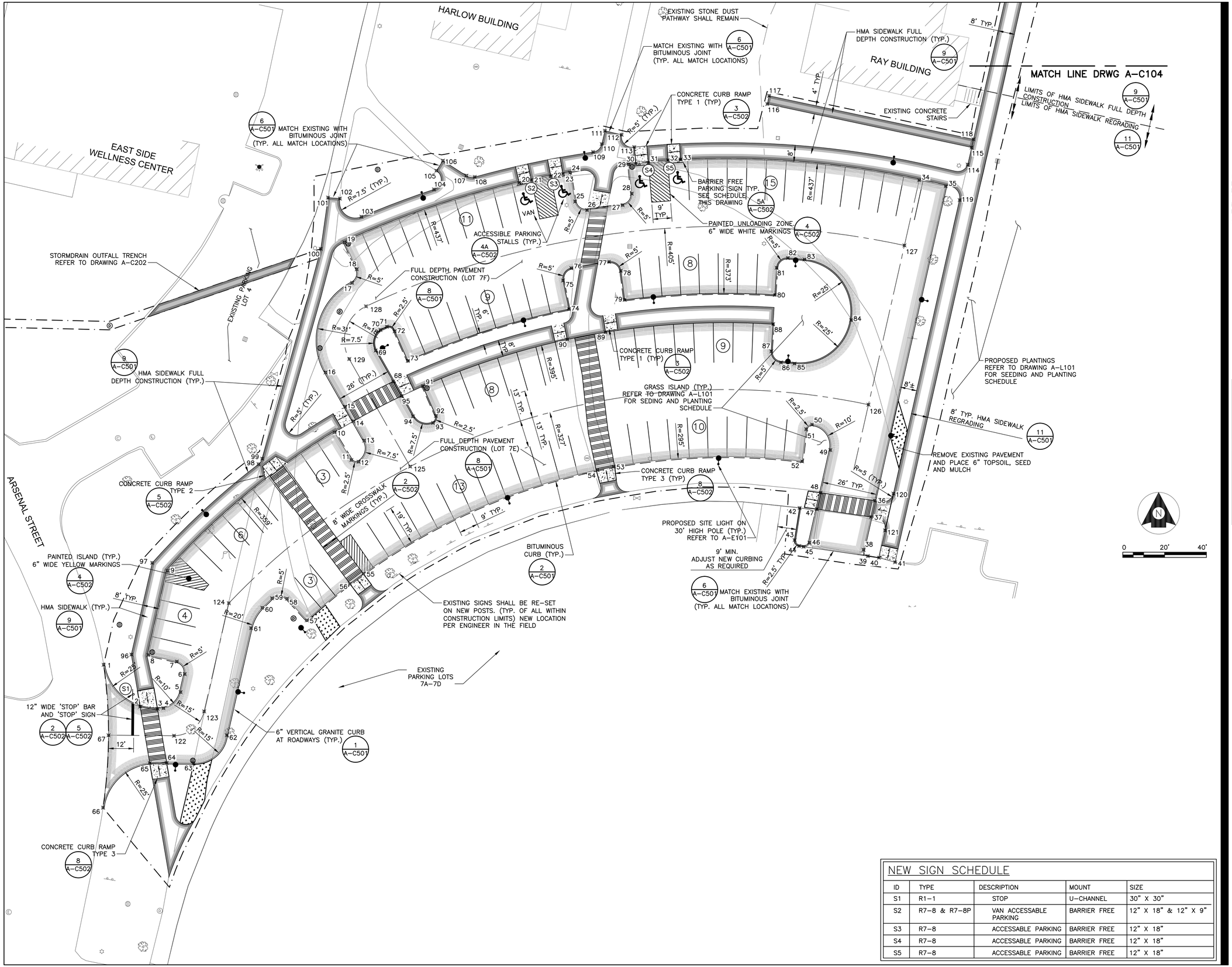
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
EXISTING CONDITIONS & DEMOLITION PLAN; CAMPBELL BARN IMPROVEMENTS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C006	8 of 36	0



NEW SIGN SCHEDULE

ID	TYPE	DESCRIPTION	MOUNT	SIZE
S1	R1-1	STOP	U-CHANNEL	30" X 30"
S2	R7-8 & R7-8P	VAN ACCESSABLE PARKING	BARRIER FREE	12" X 18" & 12" X 9"
S3	R7-8	ACCESSABLE PARKING	BARRIER FREE	12" X 18"
S4	R7-8	ACCESSABLE PARKING	BARRIER FREE	12" X 18"
S5	R7-8	ACCESSABLE PARKING	BARRIER FREE	12" X 18"

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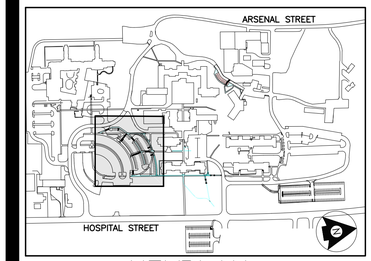
Notes

1. EXCAVATED MATERIAL THAT MEETS THE REQUIREMENTS FOR COMMON BORROW SHALL BE USED TO CONSTRUCT EMBANKMENTS. EXCESS MATERIAL BEYOND WHAT IS NEEDED TO CONSTRUCT EMBANKMENTS, INCLUDING UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
2. ALL DISTURBED AREAS SHALL RECEIVE 6 INCHES TOPSOIL, SEED AND MULCH UNLESS OTHERWISE INDICATED.

LEGEND

117 LAYOUT POINT NUMBER (REFER TO POINT TABLE THIS SHEET)

(8) NUMBER OF PARALLEL STALLS PER BAY



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
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File Name: A_C-101_102_layout_pln.dwg	Dwn.	Chkd.	Dsgn.
		DPN	DPN 16.05.12

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DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title

LAYOUT PLAN
LOT NO. 7E AND 7F

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C101	9 of 36	0

ORIGINAL SHEET - ARCH D

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
1	535345.27	1142818.20	MATCH EDGE OF PAVEMENT
2	535325.31	1142835.63	CURB RAMP
3	535324.25	1142843.92	CURB RAMP
4	535324.54	1142846.80	PT / PC EDGE OF PAVEMENT
5	535332.19	1142854.98	PT EDGE OF PAVEMENT
6	535340.83	1142856.96	PC EDGE OF PAVEMENT
7	535346.82	1142853.19	PT EDGE OF PAVEMENT
8	535349.94	1142839.55	EDGE OF PAVEMENT
9	535390.18	1142848.74	PC EDGE OF PAVEMENT
10	535456.36	1142928.55	PT EDGE OF PAVEMENT
11	535443.11	1142936.63	PC EDGE OF PAVEMENT
12	535442.28	1142940.06	PT/PC EDGE OF PAVEMENT
13	535452.41	1142942.73	PT EDGE OF PAVEMENT
14	535461.63	1142937.50	CURB RAMP
15	535468.59	1142933.56	CURB RAMP
16	535484.98	1142924.27	PC EDGE OF PAVEMENT
17	535527.77	1142936.95	PT/PC EDGE OF PAVEMENT
18	535534.29	1142939.19	PT EDGE OF PAVEMENT
19	535547.07	1142933.33	EDGE OF PAVEMENT
20	535575.53	1143016.79	CURB RAMP
21	535576.84	1143022.63	CURB RAMP
22	535578.75	1143031.87	CURB RAMP

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
23	535579.85	1143037.76	CURB RAMP
24	535580.45	1143041.15	EDGE OF PAVEMENT
25	535566.62	1143043.53	PC EDGE OF PAVEMENT
26	535562.54	1143049.25	PT EDGE OF PAVEMENT
27	535564.90	1143066.27	PC EDGE OF PAVEMENT
28	535570.40	1143070.65	PT EDGE OF PAVEMENT
29	535584.35	1143069.17	EDGE OF PAVEMENT
30	535584.70	1143072.58	CURB RAMP
31	535585.20	1143078.57	CURB RAMP
32	535586.44	1143087.93	CURB RAMP
33	535586.77	1143093.93	CURB RAMP
34	535576.86	1143208.01	BL EDGE OF PAVEMENT
35	535573.99	1143220.69	EDGE OF PAVEMENT
36	535423.74	1143186.73	CURB RAMP
37	535415.91	1143184.96	CURB RAMP
38	535400.24	1143181.42	PC EDGE OF PAVEMENT
39	535397.21	1143183.50	PT EDGE OF PAVEMENT
40	535396.45	1143188.76	CURB RAMP
41	535394.29	1143196.48	CURB RAMP
42	535420.19	1143150.86	EDGE OF PAVEMENT
43	535404.88	1143148.46	PC EDGE OF PAVEMENT
44	535402.02	1143150.55	PT EDGE OF PAVEMENT

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
45	535401.68	1143152.75	PC EDGE OF PAVEMENT
46	535403.61	1143155.52	PT EDGE OF PAVEMENT
47	535419.65	1143159.15	CURB RAMP
48	535427.47	1143160.92	CURB RAMP
49	535447.89	1143165.53	PC EDGE OF PAVEMENT
50	535460.05	1143156.80	PT/PC EDGE OF PAVEMENT
51	535457.88	1143153.99	PT EDGE OF PAVEMENT
52	535442.51	1143152.06	EDGE OF PAVEMENT
53	535439.93	1143061.99	CURB RAMP
54	535438.37	1143054.14	CURB RAMP
55	535388.74	1142942.37	CURB RAMP
56	535383.96	1142935.95	CURB RAMP
57	535366.58	1142915.30	EDGE OF PAVEMENT
58	535376.84	1142905.83	PC EDGE OF PAVEMENT
59	535377.06	1142898.71	PT EDGE OF PAVEMENT
60	535372.52	1142894.04	PC EDGE OF PAVEMENT
61	535362.79	1142888.64	PT EDGE OF PAVEMENT
62	535311.69	1142877.10	PC EDGE OF PAVEMENT
63	535298.26	1142861.16	PT EDGE OF PAVEMENT
64	535298.38	1142848.33	CURB RAMP
65	535298.32	1142840.23	CURB RAMP
66	535276.98	1142817.89	MATCH EDGE OF PAVEMENT

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
67	535311.59	1142820.53	BL EDGE OF PAVEMENT
68	535480.67	1142956.60	CURB RAMP
69	535495.44	1142948.23	PC EDGE OF PAVEMENT
70	535505.31	1142950.48	PT EDGE OF PAVEMENT
71	535506.86	1142953.60	PC EDGE OF PAVEMENT
72	535504.67	1142957.29	PT EDGE OF PAVEMENT
73	535490.52	1142963.60	EDGE OF PAVEMENT
74	535515.22	1143040.57	EDGE OF PAVEMENT
75	535528.91	1143037.77	PC EDGE OF PAVEMENT
76	535534.82	1143041.73	PT EDGE OF PAVEMENT
77	535537.83	1143059.72	PC EDGE OF PAVEMENT
78	535533.53	1143065.39	PT EDGE OF PAVEMENT
79	535519.67	1143067.20	EDGE OF PAVEMENT
80	535522.05	1143139.05	EDGE OF PAVEMENT
81	535534.99	1143139.87	PC EDGE OF PAVEMENT
82	535539.66	1143145.24	PT EDGE OF PAVEMENT
83	535538.96	1143153.23	PC EDGE OF PAVEMENT
84	535509.97	1143175.47	PT/PC EDGE OF PAVEMENT
85	535489.20	1143148.39	PT EDGE OF PAVEMENT
86	535489.76	1143141.93	PC EDGE OF PAVEMENT
87	535495.07	1143137.33	PT EDGE OF PAVEMENT
88	535508.08	1143138.16	EDGE OF PAVEMENT

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
89	535504.19	1143058.06	CURB RAMP
90	535500.76	1143039.83	CURB RAMP
91	535478.39	1142970.79	EDGE OF PAVEMENT
92	535464.20	1142977.03	PC EDGE OF PAVEMENT
93	535460.85	1142975.64	PT/PC EDGE OF PAVEMENT
94	535464.00	1142966.05	PT EDGE OF PAVEMENT
95	535473.70	1142960.55	CURB RAMP
96	535350.16	1142831.49	EDGE OF SIDEWALK
97	535393.98	1142841.40	EDGE OF SIDEWALK
98	535441.16	1142892.22	PC EDGE OF SIDEWALK
99	535443.77	1142893.99	PT EDGE OF SIDEWALK
100	535544.05	1142921.96	EDGE OF SIDEWALK
101	535568.53	1142925.46	MATCH EXISTING
102	535568.05	1142931.11	MATCH EXISTING
103	535559.38	1142941.39	PT EDGE OF SIDEWALK
104	535572.43	1142976.07	PC EDGE OF SIDEWALK
105	535581.37	1142977.25	MATCH EXISTING
106	535586.19	1142980.36	MATCH EXISTING
107	535578.99	1142991.54	PC EDGE OF SIDEWALK
108	535578.37	1142995.59	PT EDGE OF SIDEWALK
109	535590.28	1143052.13	PC EDGE OF SIDEWALK
110	535594.07	1143056.29	PT EDGE OF SIDEWALK

POINT TABLE			
POINT #	NORTHING	EASTING	DESC
111	535600.45	1143057.81	MATCH EXISTING
112	535598.55	1143065.77	MATCH EXISTING
113	535592.66	1143071.80	PT EDGE OF SIDEWALK
114	535584.29	1143231.18	PT EDGE OF SIDEWALK
115	535592.48	1143233.07	EDGE OF SIDEWALK
116	535613.26	1143135.42	EDGE OF SIDEWALK
117	535617.17	1143136.25	EDGE OF SIDEWALK
118	535596.38	1143233.95	EDGE OF SIDEWALK
119	535567.34	1143227.39	PT EDGE OF SIDEWALK
120	535427.09	1143195.69	PC EDGE OF PAVEMENT
121	535409.48	1143191.71	PT EDGE OF PAVEMENT
122	535311.35	1142851.83	PC BASELINE
123	535323.01	1142866.22	PT BASELINE
124	535374.74	1142878.04	PI BASELINE
125	535440.01	1142964.70	BASELINE INTERSECTION
126	535469.57	1143183.76	BASELINE INTERSECTION
127	535545.66	1143200.96	BASELINE INTERSECTION
128	535516.57	1142943.60	PC BASELINE
129	535491.39	1142935.58	PT BASELINE

NOTE: ALL POINT LOCATIONS ARE AT THE FRONT FACE OF CURB UNLESS OTHERWISE INDICATED.

ORIGINAL SHEET - ARCH D

Stantec

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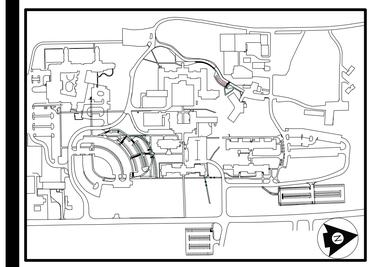


KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_C-101_102_layout_pln.dwg — Dwn. — Chkd. DPN — Dsgn. DPN — 16.05.12 YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED
PROFESSIONAL ENGINEER
5/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

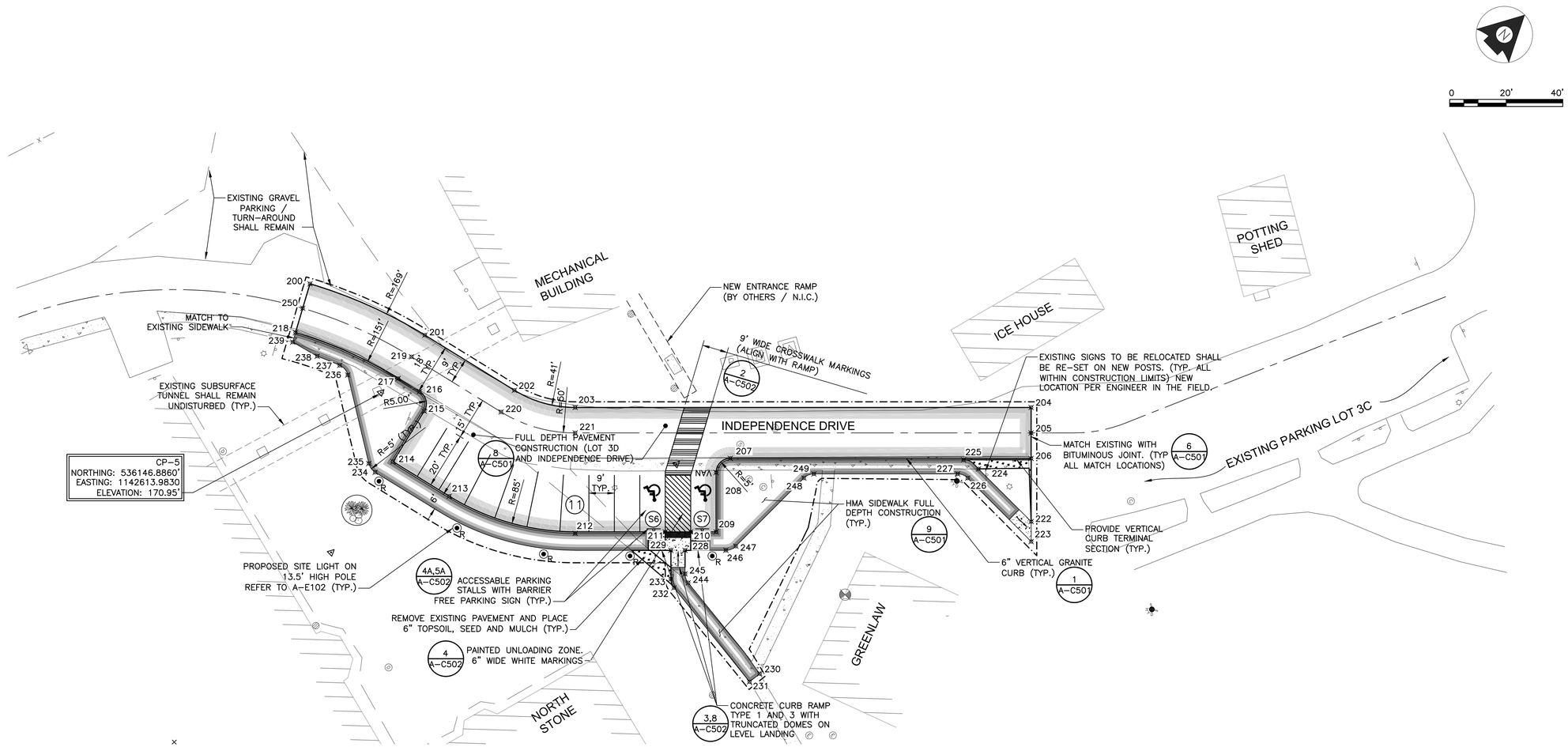
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title

LAYOUT PLAN
LOT NO. 7E AND 7F POINT TABLES

Project No. 195210829
Scale AS NOTED
Drawing No. A-C102
Sheet 10 of 36
Revision 0



Point Table			
Point #	Northing	Easting	Raw Description
200	536155.0003	1142568.7925	MATCH EDGE OF PAVEMENT
201	536172.1284	1142609.8568	PT EDGE OF PAVEMENT
202	536181.8032	1142645.7706	PC EDGE OF PAVEMENT
203	536193.2744	1142664.9455	PT EDGE OF PAVEMENT
204	536310.6143	1142775.5132	MATCH EDGE OF PAVEMENT
205	536304.4422	1142782.0633	BASELINE END
206	536298.2700	1142788.6135	EDGE OF PAVEMENT
207	536220.8431	1142715.6552	PC EDGE OF PAVEMENT
208	536213.7751	1142715.8652	PT EDGE OF PAVEMENT
209	536199.3735	1142731.1490	EDGE OF PAVEMENT
210	536192.8233	1142724.9768	CURB RAMP
211	536186.2732	1142718.8047	CURB RAMP
212	536162.7566	1142697.3324	PC EDGE OF PAVEMENT
213	536139.3179	1142657.2158	PT EDGE OF PAVEMENT
214	536133.2555	1142634.7120	EDGE OF PAVEMENT
215	536153.5327	1142629.2496	PC EDGE OF PAVEMENT
216	536157.0599	1142623.1211	PT EDGE OF PAVEMENT
217	536154.7480	1142614.5389	PC EDGE OF PAVEMENT
218	536139.4442	1142577.8483	MATCH EDGE OF PAVEMENT
219	536163.4382	1142612.1979	PT BASELINE

Point Table			
Point #	Northing	Easting	Raw Description
220	536173.1130	1142648.1117	PC BASELINE
221	536187.1023	1142671.4956	PT BASELINE
222	536282.9640	1142804.8847	CURB RAMP
223	536278.1148	1142810.0310	CURB RAMP
224	536282.1820	1142778.5673	PC EDGE OF SIDEWALK
225	536280.5394	1142772.5932	PT EDGE OF SIDEWALK
226	536277.1719	1142778.3023	PC EDGE OF SIDEWALK
227	536275.6031	1142774.8118	PT EDGE OF SIDEWALK
228	536186.9101	1142728.3359	EDGE OF SIDEWALK
229	536183.2711	1142724.9070	EDGE OF SIDEWALK
230	536176.1770	1142778.2240	MATCH EDGE OF SIDEWALK
231	536171.6206	1142777.8287	MATCH EDGE OF SIDEWALK
232	536174.9914	1142735.3177	PC EDGE OF SIDEWALK
233	536176.3383	1142732.2644	PT EDGE OF SIDEWALK
234	536126.0874	1142633.0919	PC EDGE OF SIDEWALK
235	536126.5818	1142629.2971	PT EDGE OF SIDEWALK
236	536142.6189	1142601.4335	PC EDGE OF SIDEWALK
237	536142.8883	1142596.9864	PT EDGE OF SIDEWALK
238	536139.3030	1142589.1848	EDGE OF SIDEWALK
239	536136.4180	1142579.6100	MATCH EDGE OF SIDEWALK

Point Table			
Point #	Northing	Easting	Raw Description
244	536179.8443	1142737.4584	PC EDGE OF SIDEWALK
245	536181.1912	1142734.4051	PT EDGE OF SIDEWALK
246	536197.4114	1142738.2312	PC EDGE OF SIDEWALK
247	536200.9889	1142739.5900	PT EDGE OF SIDEWALK
248	536235.0155	1142738.5789	PC EDGE OF SIDEWALK
249	536238.5930	1142739.9377	PT EDGE OF SIDEWALK
250	536147.2222	1142573.3204	BAELINE START

NOTE: ALL POINT LOCATIONS ARE AT THE FRONT FACE OF CURB UNLESS OTHERWISE INDICATED.

NEW SIGN SCHEDULE

ID	TYPE	DESCRIPTION	MOUNT	SIZE
S6	R7-8	ACCESSABLE PARKING	BARRIER FREE	12" X 18"
S7	R7-8 & R7-8P	VAN ACCESSABLE PARKING	BARRIER FREE	12" X 18" & 12" X 9"

Stantec

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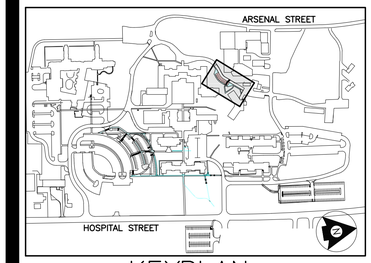
2. ALL DISTURBED AREAS SHALL RECEIVE 6 INCHES TOPSOIL, SEED AND MULCH UNLESS OTHERWISE INDICATED.

LEGEND

117 LAYOUT POINT NUMBER (REFER TO POINT TABLE THIS SHEET)

(8) NUMBER OF PARALLEL STALLS PER BAY



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued

File Name: A_C-103_layout_pln.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
		DPN	DPN	16.05.12

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

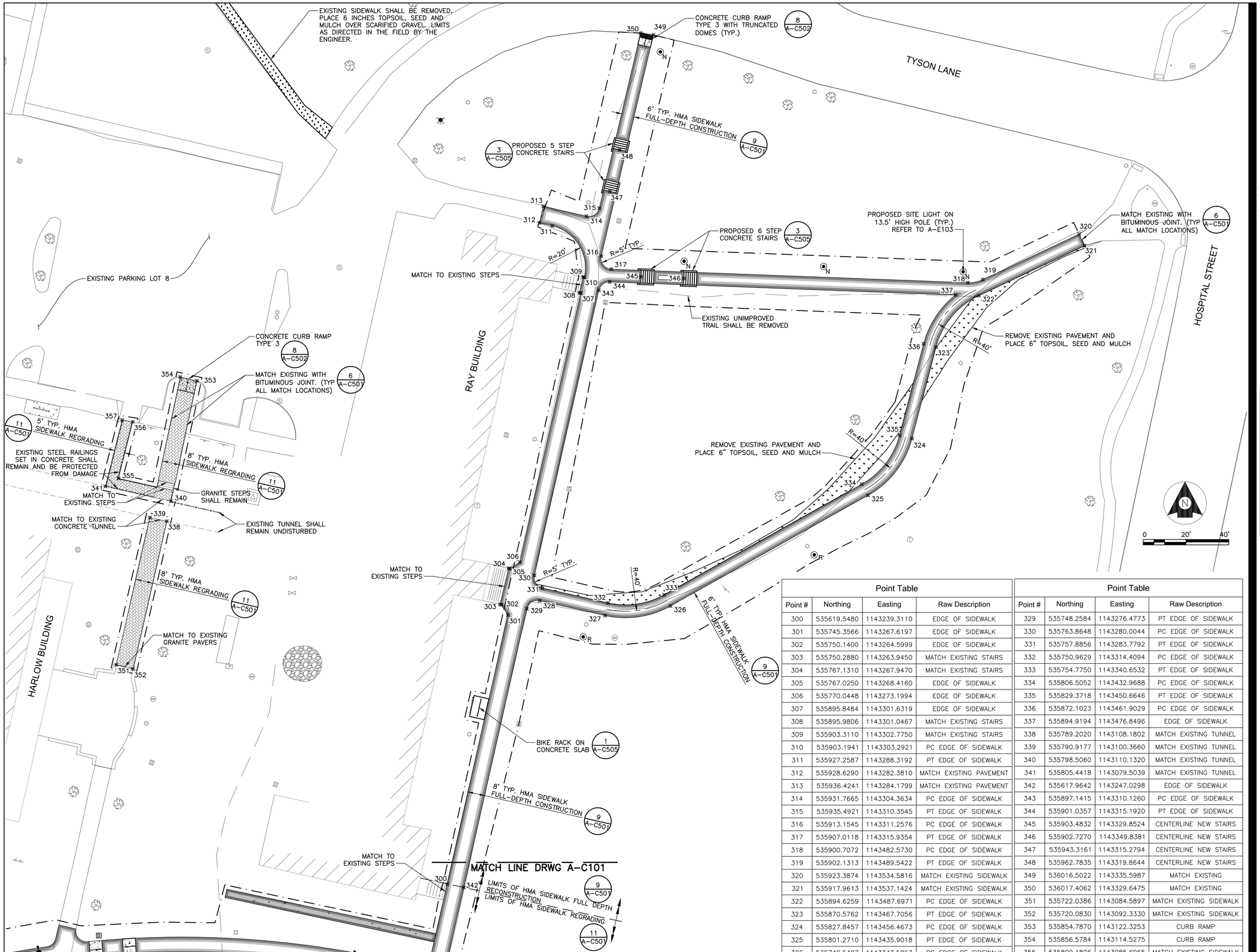
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title

LAYOUT PLAN
LOT NO. 3D

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C103	11 of 36	0

ORIGINAL SHEET - ARCH D



SIDEWALK IMPROVEMENTS AT RAY BUILDING

SCALE: 1"=20'

Point Table			
Point #	Northing	Easting	Raw Description
300	535619.5480	1143239.3110	EDGE OF SIDEWALK
301	535745.3566	1143267.6197	EDGE OF SIDEWALK
302	535750.1400	1143264.5999	EDGE OF SIDEWALK
303	535750.2880	1143263.9450	MATCH EXISTING STAIRS
304	535767.1310	1143267.9470	MATCH EXISTING STAIRS
305	535767.0250	1143268.4160	EDGE OF SIDEWALK
306	535770.0448	1143273.1994	EDGE OF SIDEWALK
307	535895.8484	1143301.6319	EDGE OF SIDEWALK
308	535895.9806	1143301.0467	MATCH EXISTING STAIRS
309	535903.3110	1143302.7750	MATCH EXISTING STAIRS
310	535903.1941	1143303.2921	PC EDGE OF SIDEWALK
311	535927.2587	1143288.3192	PT EDGE OF SIDEWALK
312	535928.6290	1143282.3810	MATCH EXISTING PAVEMENT
313	535936.4241	1143284.1799	MATCH EXISTING PAVEMENT
314	535931.7665	1143304.3634	PC EDGE OF SIDEWALK
315	535935.4921	1143310.3545	PT EDGE OF SIDEWALK
316	535913.1545	1143311.2576	PC EDGE OF SIDEWALK
317	535907.0118	1143315.9354	PT EDGE OF SIDEWALK
318	535900.7072	1143482.5730	PC EDGE OF SIDEWALK
319	535902.1313	1143489.5422	PT EDGE OF SIDEWALK
320	535923.3874	1143534.5816	MATCH EXISTING SIDEWALK
321	535917.9613	1143537.1424	MATCH EXISTING SIDEWALK
322	535894.6259	1143487.6971	PC EDGE OF SIDEWALK
323	535870.5762	1143467.7056	PT EDGE OF SIDEWALK
324	535827.8457	1143456.4673	PC EDGE OF SIDEWALK
325	535801.2710	1143435.9018	PT EDGE OF SIDEWALK
326	535749.5407	1143343.5863	PC EDGE OF SIDEWALK
327	535745.1105	1143313.0867	PT EDGE OF SIDEWALK
328	535752.0332	1143282.4565	PC EDGE OF SIDEWALK

Point Table			
Point #	Northing	Easting	Raw Description
329	535748.2584	1143276.4773	PT EDGE OF SIDEWALK
330	535763.8648	1143280.0044	PC EDGE OF SIDEWALK
331	535757.8856	1143283.7792	PT EDGE OF SIDEWALK
332	535750.9629	1143314.4094	PC EDGE OF SIDEWALK
333	535754.7750	1143340.6532	PT EDGE OF SIDEWALK
334	535806.5052	1143432.9688	PC EDGE OF SIDEWALK
335	535829.3718	1143450.6646	PT EDGE OF SIDEWALK
336	535872.1023	1143461.9029	PC EDGE OF SIDEWALK
337	535894.9194	1143476.8496	EDGE OF SIDEWALK
338	535789.2020	1143108.1802	MATCH EXISTING TUNNEL
339	535790.9177	1143100.3660	MATCH EXISTING TUNNEL
340	535798.5060	1143110.1320	MATCH EXISTING TUNNEL
341	535805.4418	1143079.5039	MATCH EXISTING TUNNEL
342	535617.9642	1143247.0298	EDGE OF SIDEWALK
343	535897.1415	1143310.1260	PC EDGE OF SIDEWALK
344	535901.0357	1143315.1920	PT EDGE OF SIDEWALK
345	535903.4832	1143329.8524	CENTERLINE NEW STAIRS
346	535902.7270	1143349.8381	CENTERLINE NEW STAIRS
347	535943.3161	1143315.2794	CENTERLINE NEW STAIRS
348	535962.7835	1143319.8644	CENTERLINE NEW STAIRS
349	536016.5022	1143335.5987	MATCH EXISTING
350	536017.4062	1143329.6475	MATCH EXISTING
351	535722.0386	1143084.5897	MATCH EXISTING SIDEWALK
352	535720.0830	1143092.3330	MATCH EXISTING SIDEWALK
353	535854.7870	1143122.3253	CURB RAMP
354	535856.5784	1143114.5275	CURB RAMP
355	535809.1806	1143085.6065	MATCH EXISTING SIDEWALK
356	535835.6505	1143092.2986	MATCH EXISTING SIDEWALK
357	535836.4867	1143087.3527	MATCH EXISTING SIDEWALK

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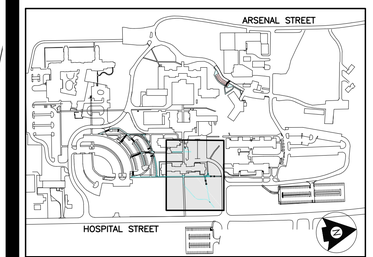
LEGEND

117 — LAYOUT POINT NUMBER (REFER TO POINT TABLE THIS SHEET)

(8) — NUMBER OF PARALLEL STALLS PER BAY



KEYPLAN

SCALE: 1"=500'

Revision		By	Appd.	YY.MM.DD
0	FOR BID	CEJ	DPN	16.09.12
Issued		By	Appd.	YY.MM.DD

File Name: A_C-104_layout_pln.dwg — Dwn. — Chkd. DPN — Dsgn. DPN — 16.05.12 YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

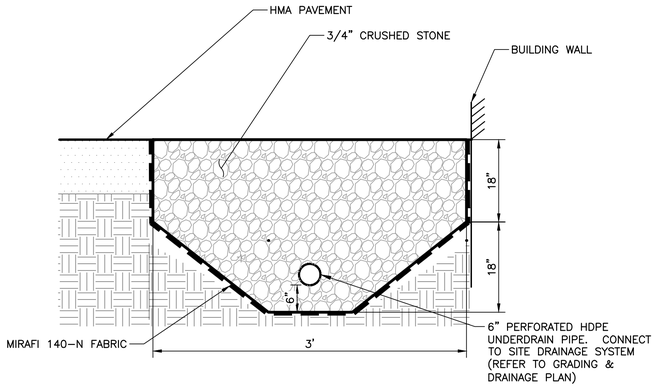
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

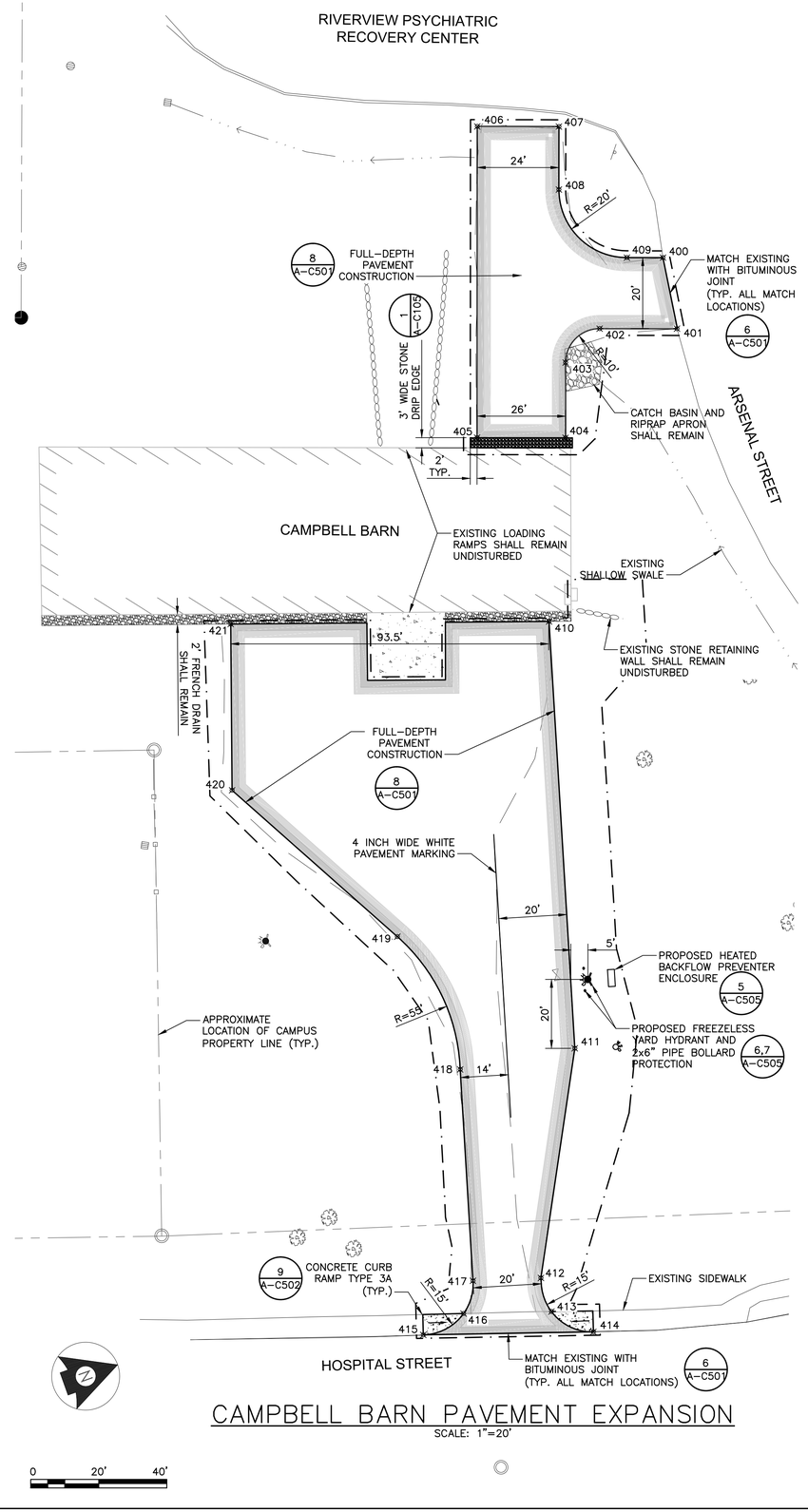
Title
LAYOUT PLAN
SIDEWALK ADDITIONS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C104	12 of 36	0

ORIGINAL SHEET - ARCH D



1 STONE DRIP EDGE SECTION
NOT TO SCALE



CAMPBELL BARN PAVEMENT EXPANSION
SCALE: 1"=20'

Point Table			
Point #	Northing	Easting	Description
400	534983.7270	1143068.9490	MATCH EDGE OF PAVEMENT
401	534983.1080	1143090.2270	MATCH EDGE OF PAVEMENT
402	534960.9322	1143085.1670	PC EDGE OF PAVEMENT
403	534948.9582	1143092.6918	PT EDGE OF PAVEMENT
404	534944.0407	1143114.2434	EDGE OF PAVEMENT
405	534918.6946	1143108.4490	EDGE OF PAVEMENT
406	534939.0565	1143019.2113	EDGE OF PAVEMENT
407	534962.4505	1143024.5707	EDGE OF PAVEMENT
408	534958.3276	1143042.6394	PC EDGE OF PAVEMENT
409	534973.3773	1143066.5874	PT EDGE OF PAVEMENT
410	534927.3275	1143165.8492	EDGE OF PAVEMENT
411	534906.8398	1143289.9596	EDGE OF PAVEMENT
412	534882.1419	1143353.6182	PC EDGE OF PAVEMENT
413	534882.9644	1143363.9303	CURB RAMP
414	534893.6646	1143372.4989	MATCH EDGE OF PAVEMENT
415	534844.7064	1143362.2589	MATCH EDGE OF PAVEMENT
416	534857.6350	1143358.7652	MATCH EDGE OF PAVEMENT
417	534862.4689	1143349.9975	PC EDGE OF PAVEMENT
418	534872.6144	1143288.5379	PC EDGE OF PAVEMENT
419	534863.2501	1143246.3586	PT EDGE OF PAVEMENT
420	534825.4463	1143193.6061	EDGE OF PAVEMENT
421	534835.9031	1143145.8364	EDGE OF PAVEMENT

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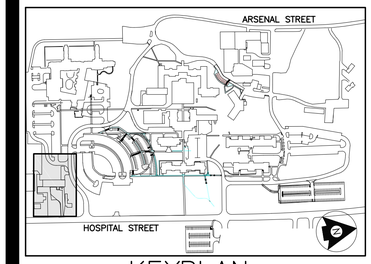
Notes
1. EXCAVATED MATERIAL THAT MEETS THE REQUIREMENTS FOR COMMON BORROW SHALL BE USED TO CONSTRUCT EMBANKMENTS. EXCESS MATERIAL BEYOND WHAT IS NEEDED TO CONSTRUCT EMBANKMENTS, INCLUDING UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
2. ALL DISTURBED AREAS SHALL RECEIVE 6 INCHES TOPSOIL, SEED AND MULCH UNLESS OTHERWISE INDICATED.

LEGEND

117 LAYOUT POINT NUMBER (REFER TO POINT TABLE THIS SHEET)

(8) NUMBER OF PARALLEL STALLS PER BAY



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued

File Name: A_C-105_layout_pln.dwg	Dwn.	Chkd.	Dsgn.
		DPN	DPN
			16.05.12

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DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

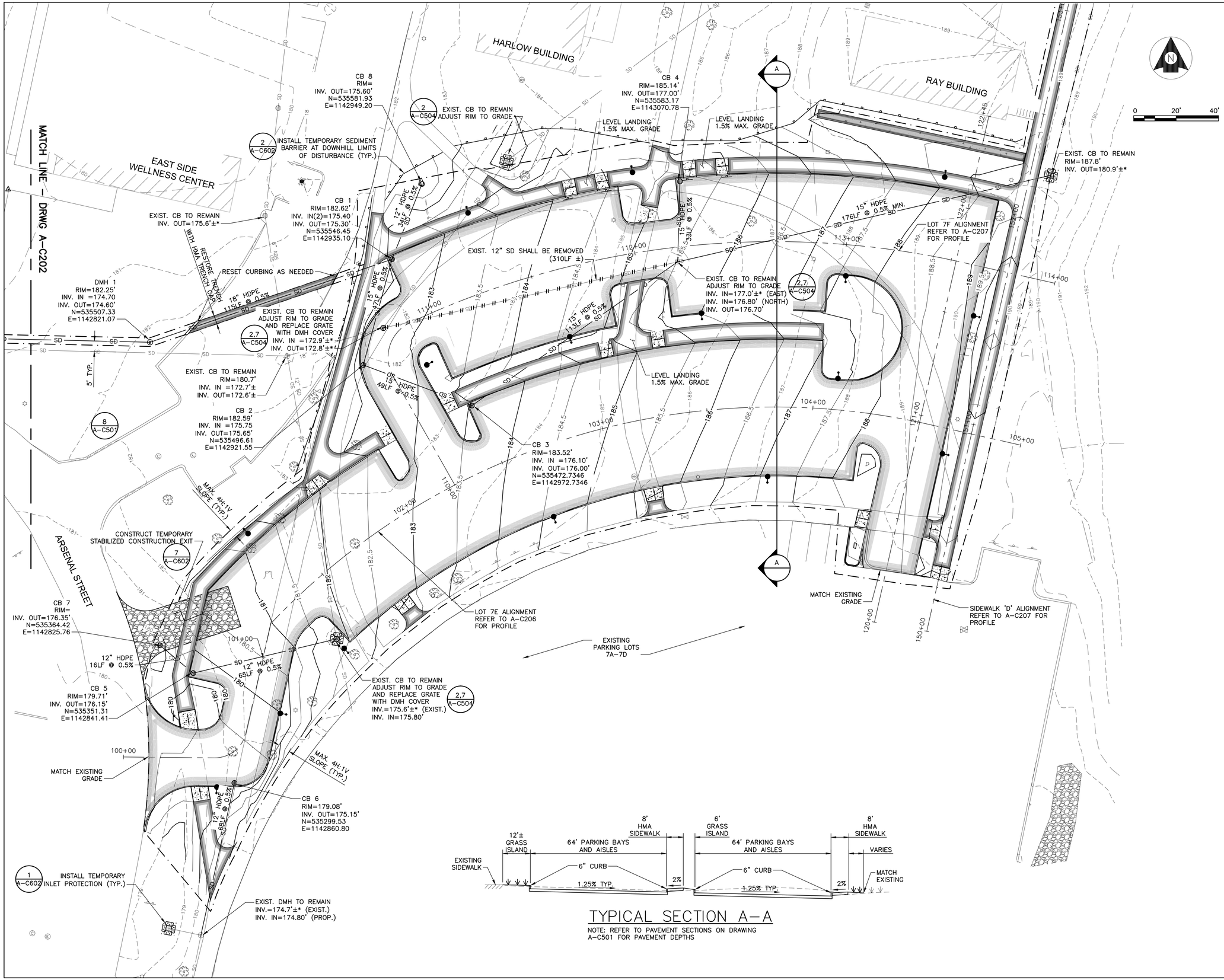
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
LAYOUT PLAN
CAMPBELL BARN IMPROVEMENTS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C105	13 of 36	0

ORIGINAL SHEET - ARCH D



TYPICAL SECTION A–A

NOTE: REFER TO PAVEMENT SECTIONS ON DRAWING A–C501 FOR PAVEMENT DEPTHS

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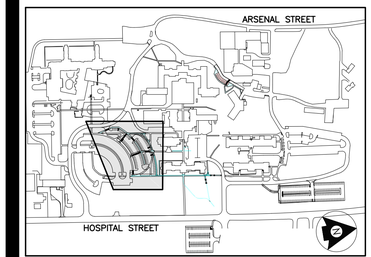
2. MAXIMUM TRASVERSE GRADES ON SIDEWALKS AND AT CROSS WALKS SHALL NOT EXCEED 2.0%. MAXIMUM LONGITUDINAL GRADES ON SIDEWALKS AND AT CROSS WALKS SHALL NOT EXCEED 5.0%.



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued

File Name: A_C-201_& _C_202_grading_pln.dwg	Dwn.	Chkd.	Dsgn.
	DPN	DPN	16.05.12

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9/23/16

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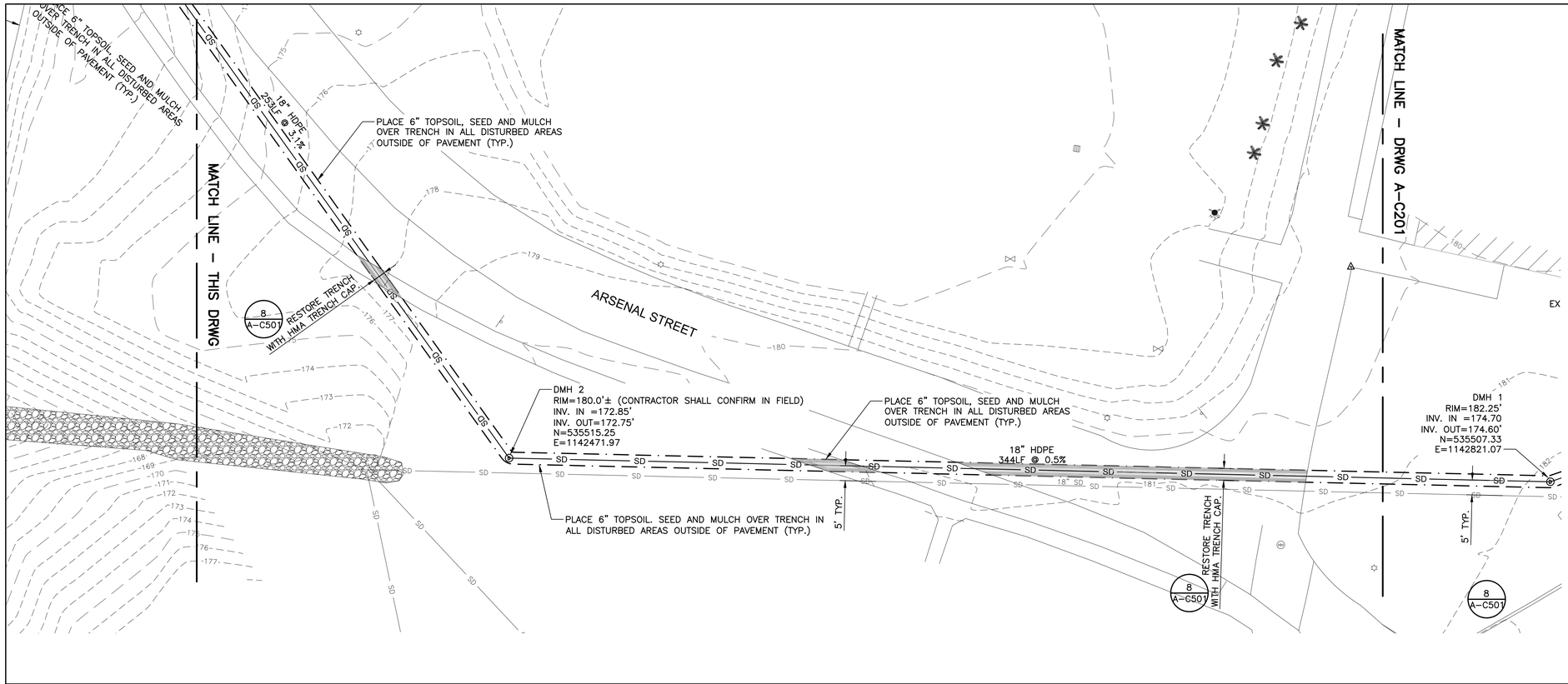
BUREAU OF GENERAL SERVICES

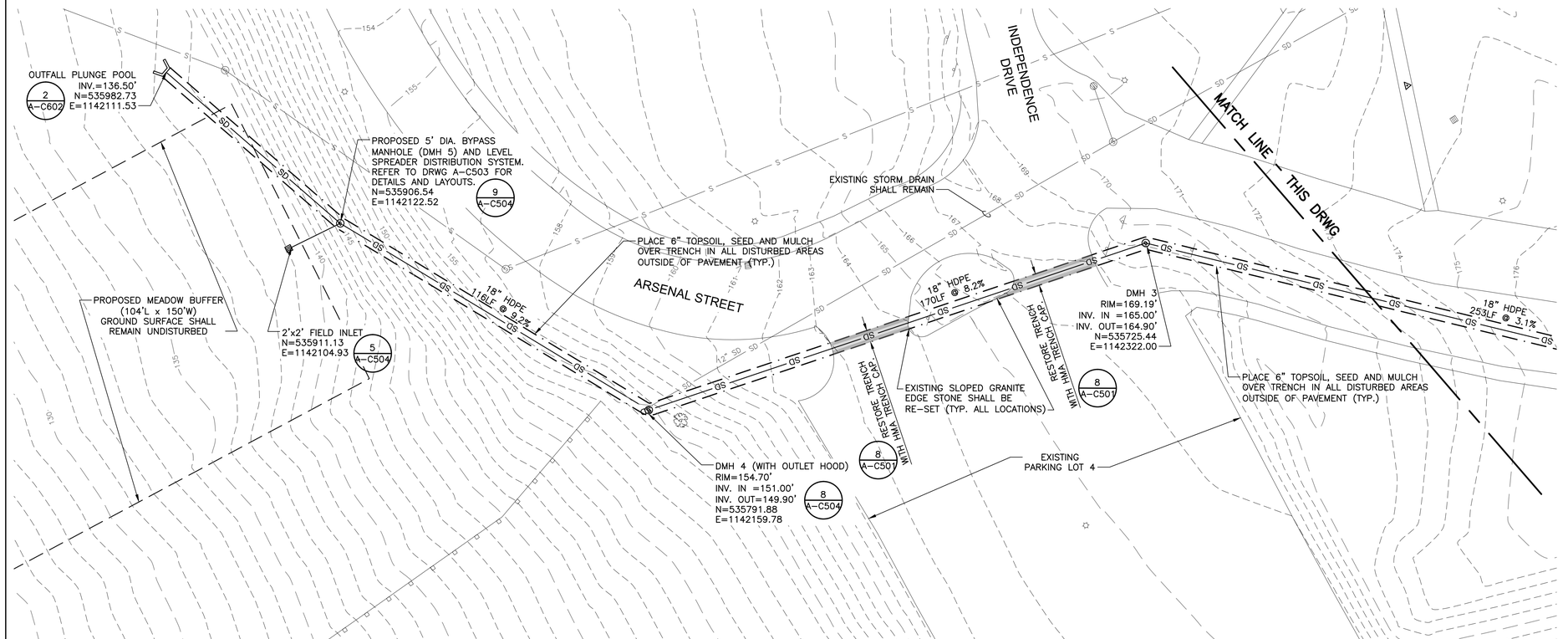
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
GRADING PLAN
LOT NO. 7E AND 7F

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C201	14 of 36	0

ORIGINAL SHEET - ARCH D





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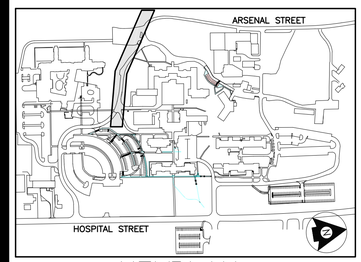


KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD
File Name: A_C-201_& _C_202_grading_pln.dwg	Dwn.	DPN Chkd.	16.05.12 Dsgn. YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
4/9/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

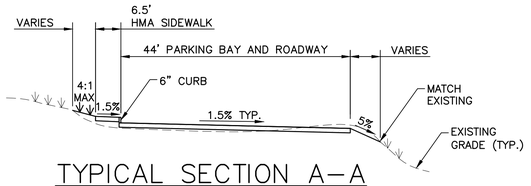
Augusta, Maine

Title

STORMDRAIN OUTFALL PLAN

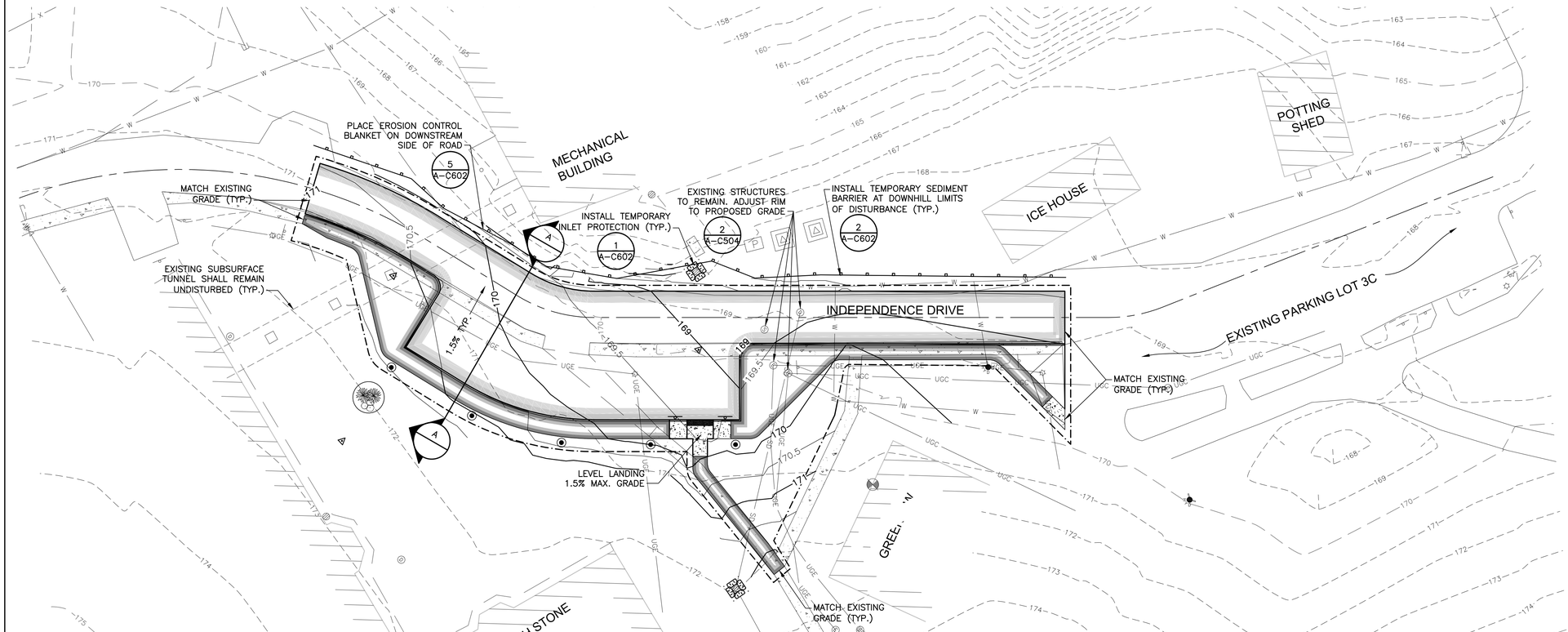
Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C202	15 of 36	0

ORIGINAL SHEET - ARCH D



TYPICAL SECTION A–A

NOTE: REFER TO PAVEMENT SECTIONS ON DRAWING A–C501 FOR PAVEMENT DEPTHS



ORIGINAL SHEET - ARCH D

0 20' 40'

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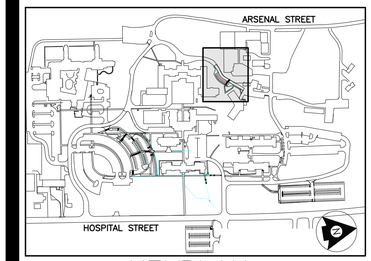

KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_C-203_grading_pln.dwg	Dwn.	DPN Chkd.	DPN Dsgn.	16.05.12 YY.MM.DD

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No. 10683
LICENSED
PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

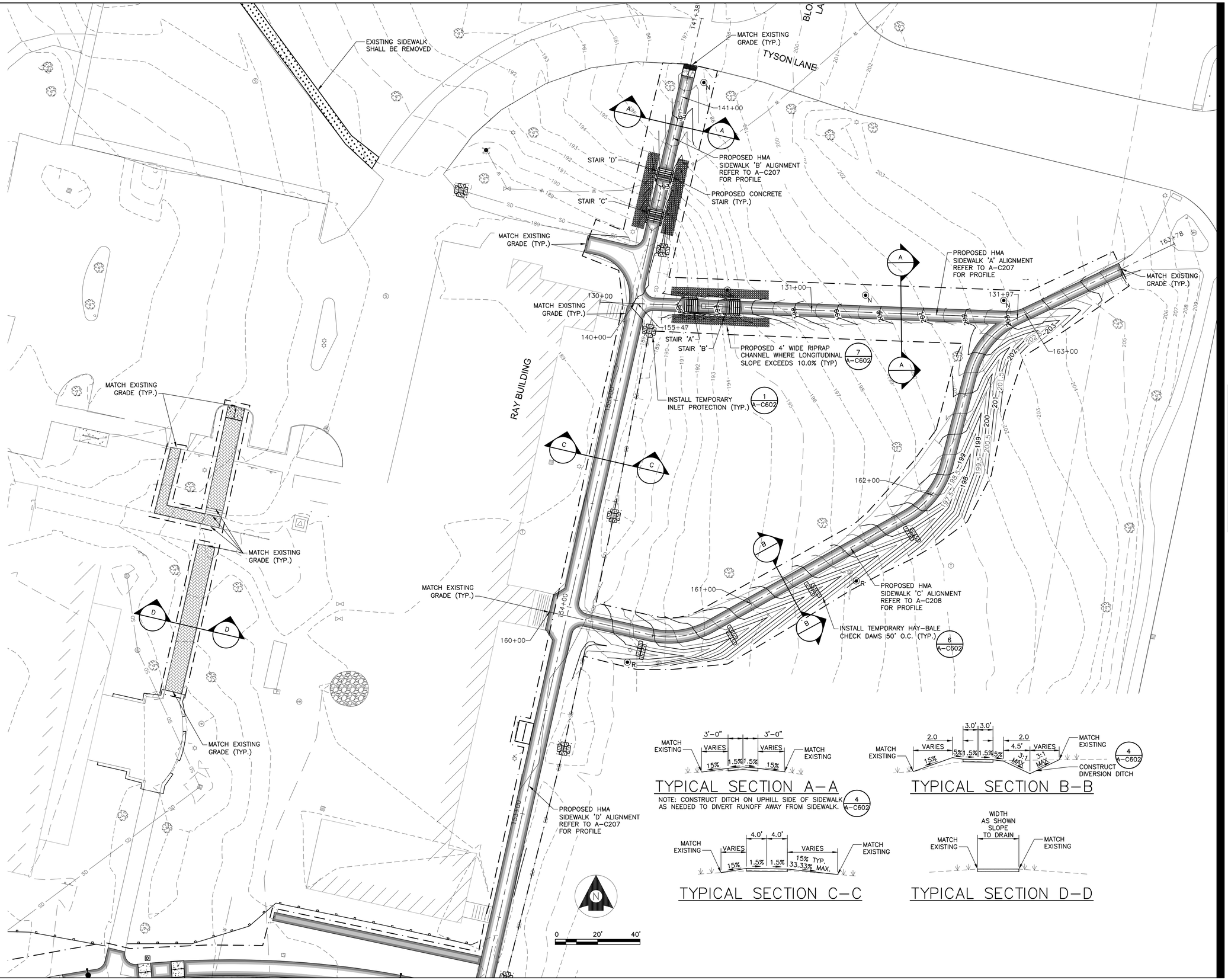
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title

GRADING PLAN
LOT NO. 3D

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C203	16 of 36	0



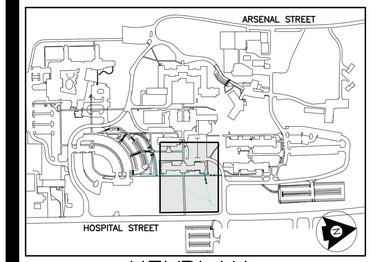
TYPICAL SECTION A-A

NOTE: CONSTRUCT DITCH ON UPHILL SIDE OF SIDEWALK AS NEEDED TO DIVERT RUNOFF AWAY FROM SIDEWALK. 4 A-C602

TYPICAL SECTION B-B

TYPICAL SECTION C-C

TYPICAL SECTION D-D



KEYPLAN

SCALE: 1"=500'

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9/23/16

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BUREAU OF GENERAL SERVICES

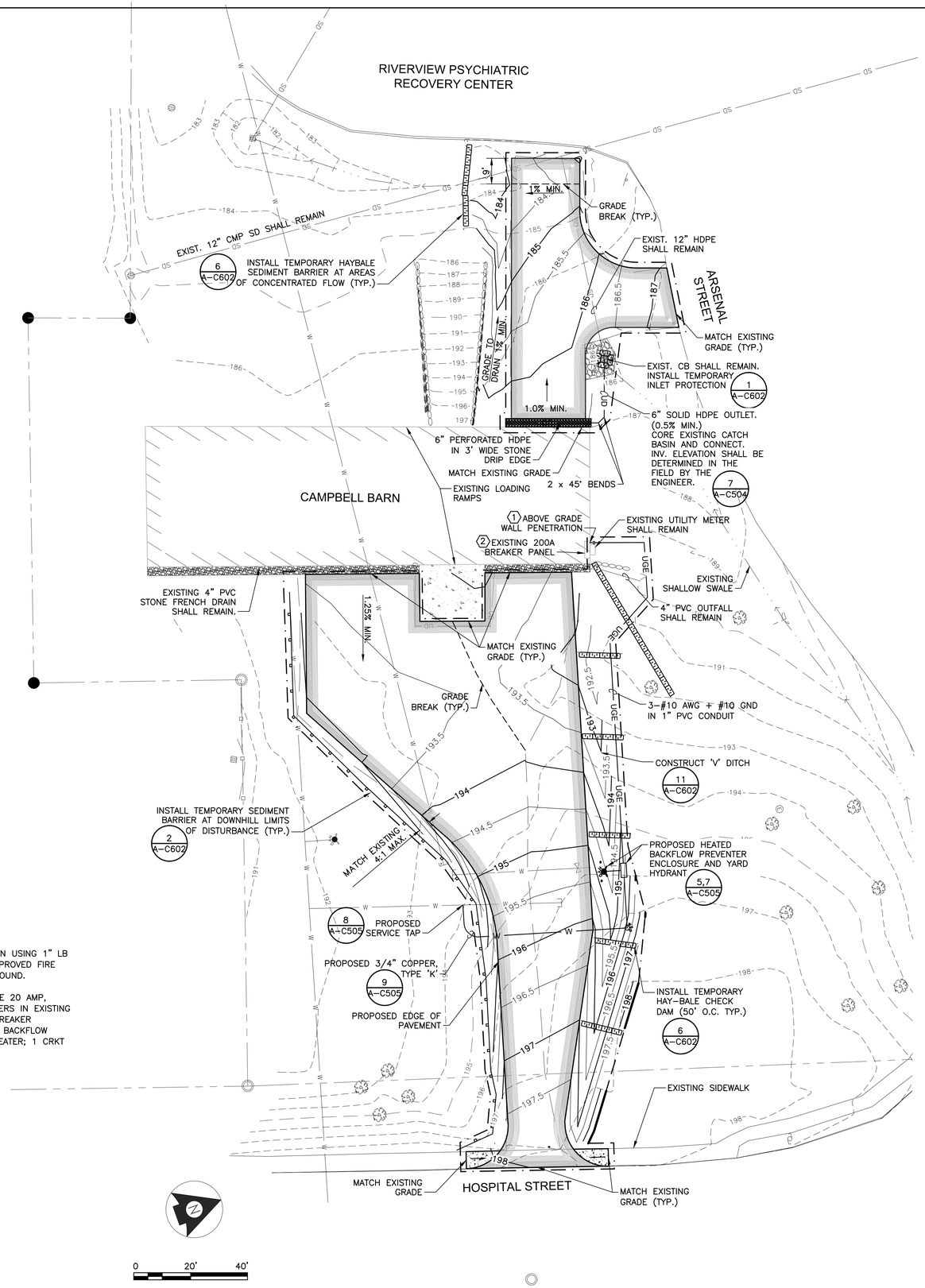
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
GRADING PLAN
SIDEWALK ADDITIONS

Project No.	Scale
195210829	AS NOTED

Drawing No.	Sheet	Revision
A-C204	17 of 36	0

ORIGINAL SHEET - ARCH D



KEY NOTES:

1. PROVIDE WALL PENETRATION USING 1" LB FITTING. SEAL WITH UL APPROVED FIRE RATED WATERPROOF COMPOUND.
2. PROVIDE 2 – SINGLE POLE 20 AMP, SQUARE D CIRCUIT BREAKERS IN EXISTING PANEL. MATCH EXISTING BREAKER CHARACTERISTICS. 1 CRKT BACKFLOW PREVENTER ENCLOSURE HEATER; 1 CRKT WATER LINE HEAT TRACE.

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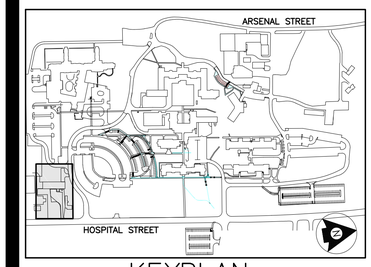

KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued | By | Appd. | YY.MM.DD

File Name: A_C-204_&_C_205_grading_plan.dwg | Dwn. | Chkd. | Dsgn. | YY.MM.DD
DPN | DPN | 16.05.12

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LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

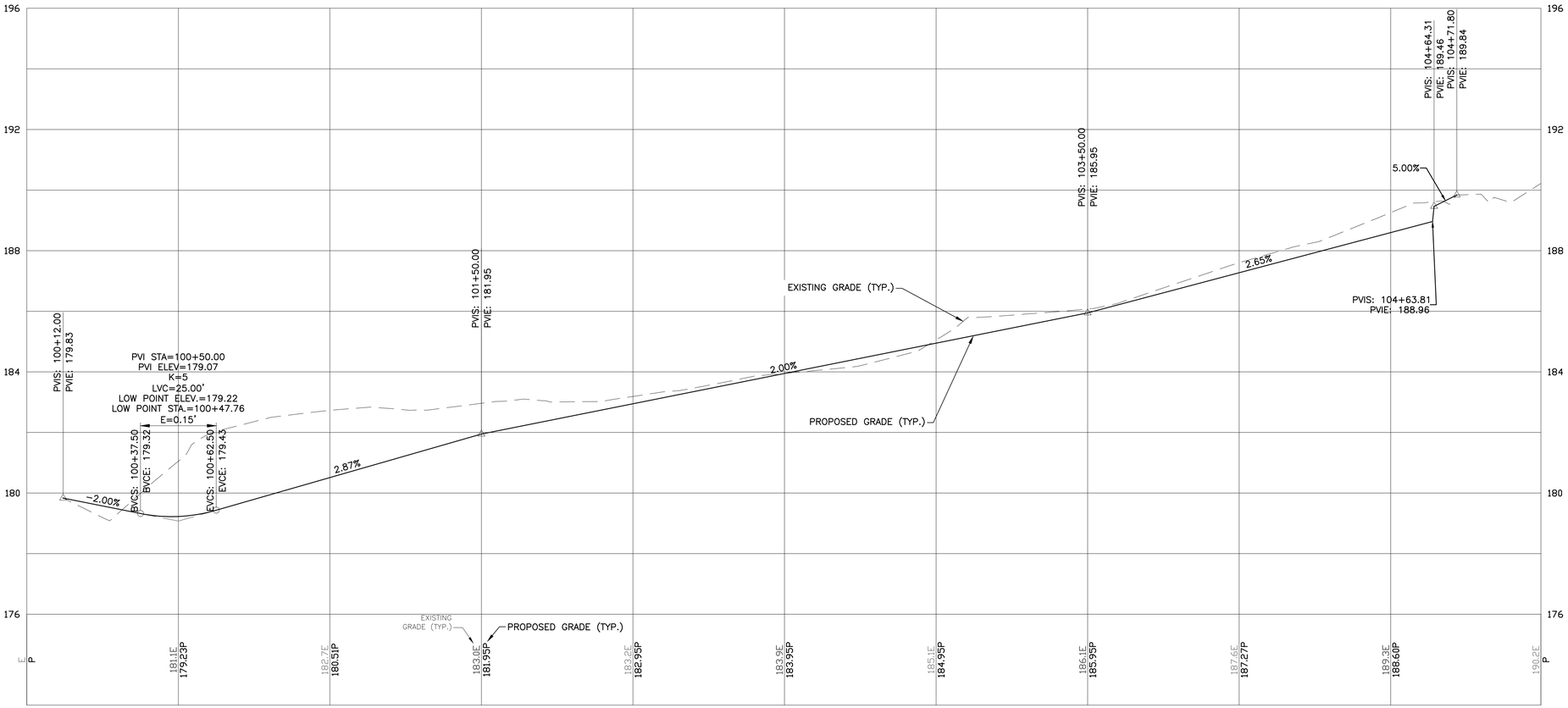
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

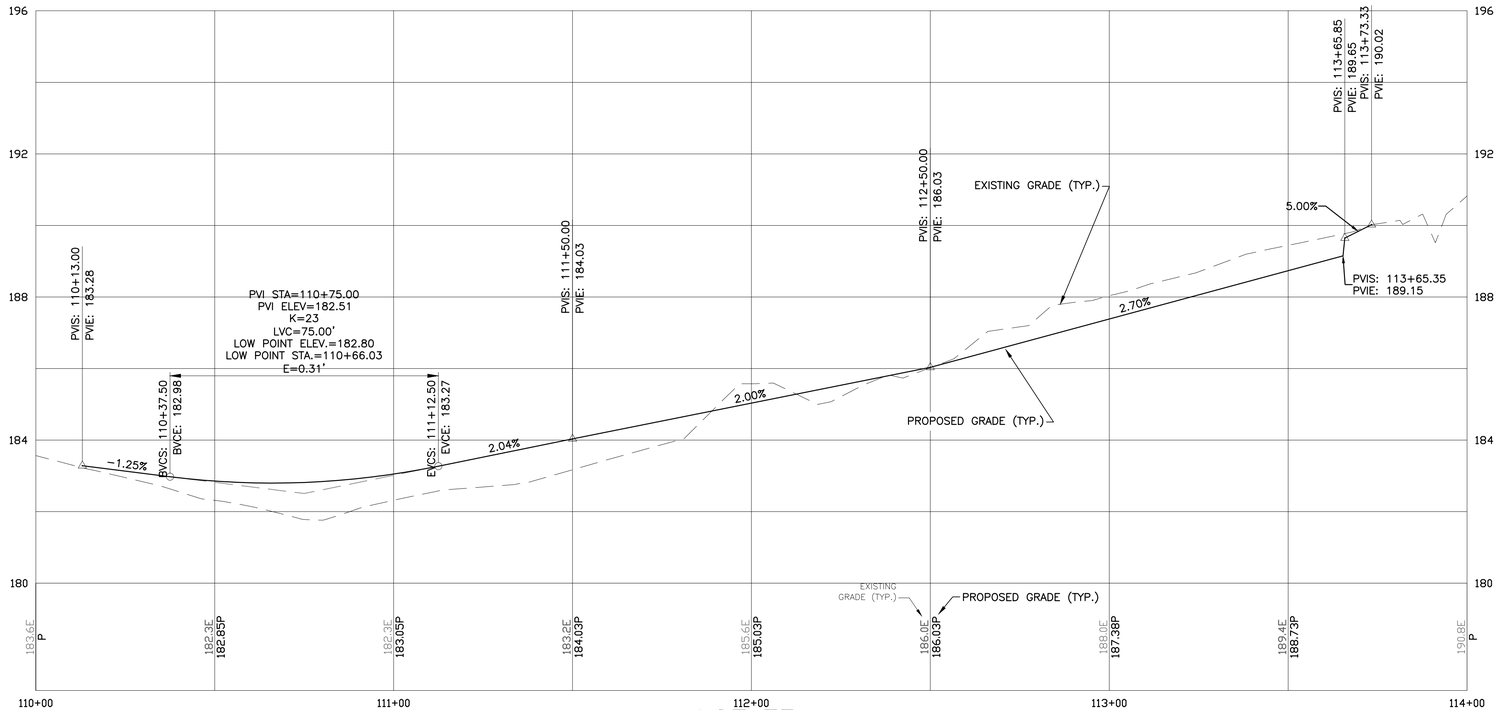
Title
GRADING PLAN
CAMPBELL BARN IMPROVEMENTS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C205	18 of 36	0

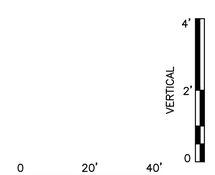
ORIGINAL SHEET - ARCH D



LOT 7E



LOT 7F



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Notes

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0 FOR BID	CEJ	DPN	16.09.12

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File Name: A_C-206_lot7_profiles.dwg	Dwn.	DPN Chkd.	DPN Dsgn.	16.05.12 YY.MM.DD

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9/23/16

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BUREAU OF GENERAL SERVICES

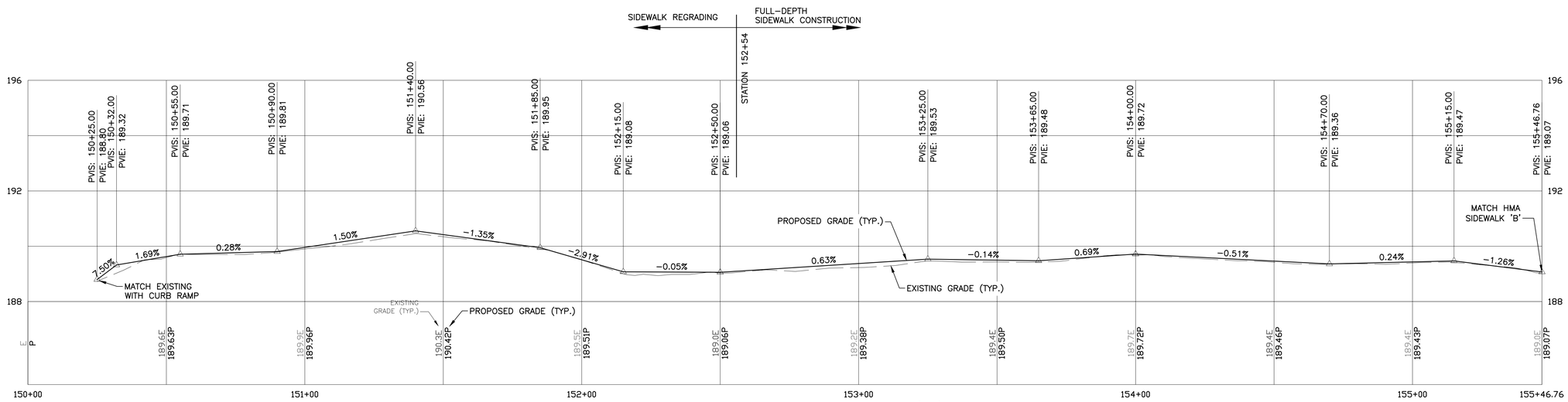
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

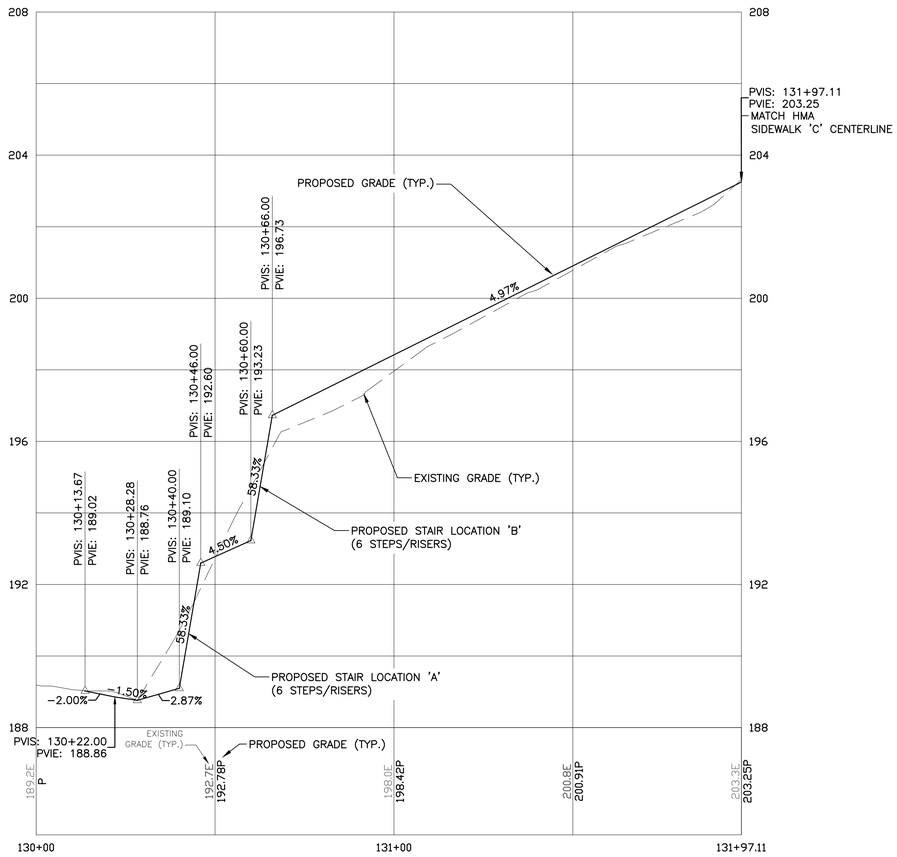
Title
MISCELLANEOUS PROFILES
LOT 7E AND 7F

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C206	19 of 36	0

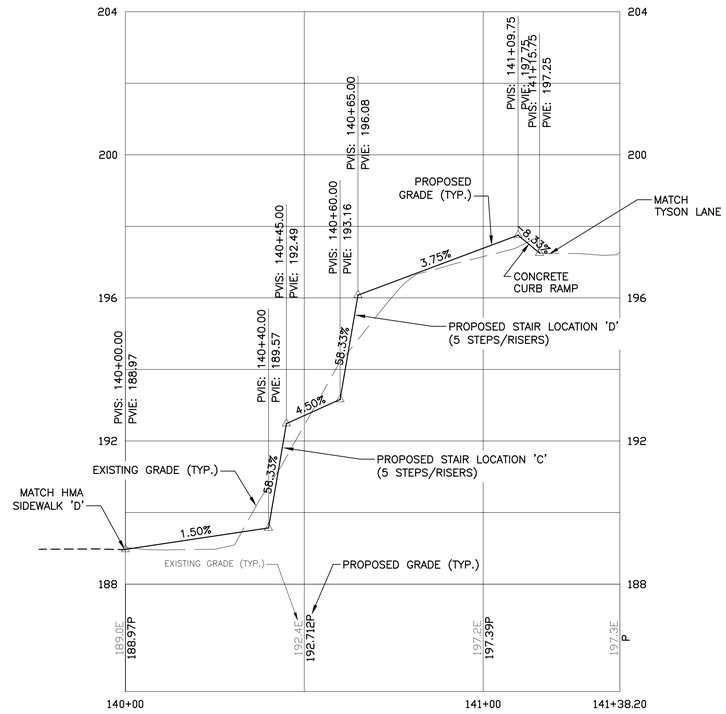
ORIGINAL SHEET - ARCH D



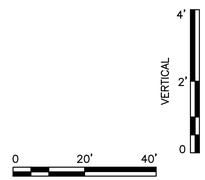
HMA SIDEWALK 'D'



HMA SIDEWALK 'A"



HMA SIDEWALK 'B"



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0 FOR BID	CEJ	DPN	16.09.12

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File Name: A_C-207_&C_208misc_profiles.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
	DPN	DPN	16.05.12	

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No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

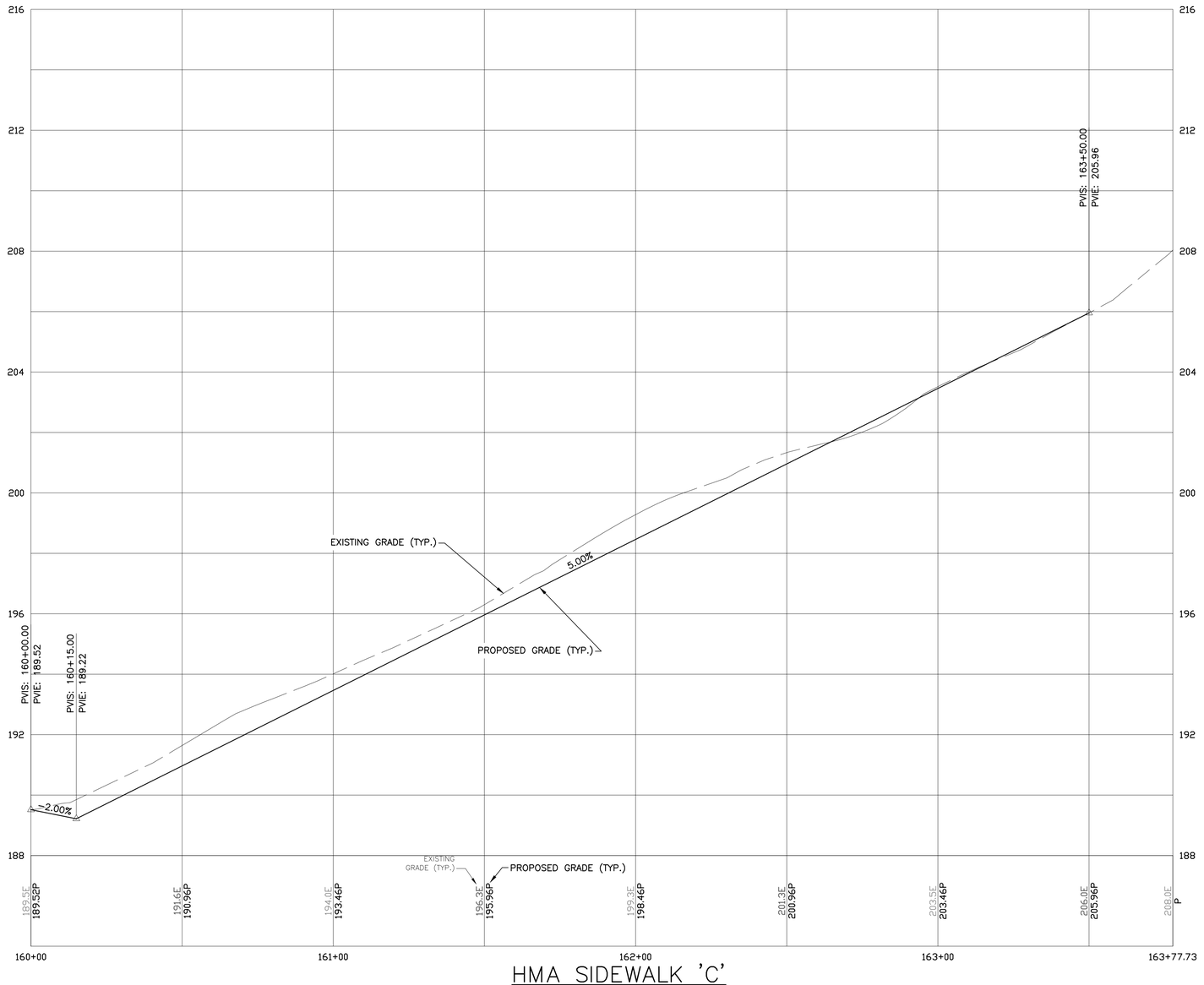
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

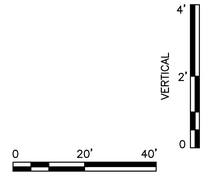
Augusta, Maine

Title
MISCELLANEOUS PROFILES
RAY BUILDING SIDEWALKS
SHEET 1 OF 2

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C207	20 of 36	0



HMA SIDEWALK 'C'



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Notes

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0 FOR BID	CEJ	DPN	16.09.12

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File Name: A_C-207_&C_208misc_profiles.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
		DPN	DPN	16.05.12

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

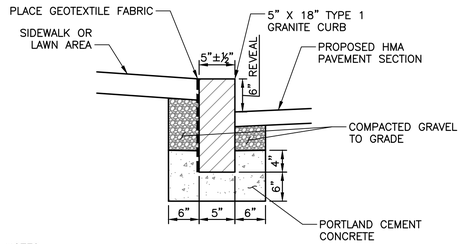
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
MISCELLANEOUS PROFILES
RAY BUILDING SIDEWALKS
SHEET 2 OF 2

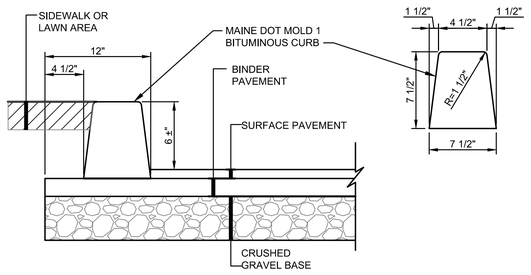
Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C208	21 of 36	0

ORIGINAL SHEET - ARCH D

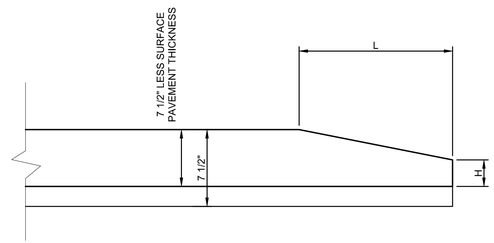


NOTES:
1. CURBS SHALL BE SET TO LINE AND GRADE UPON TEMPORARY SUPPORT PADS.
2. AFTER INSPECTION AND APPROVAL BY THE ENGINEER, THE CURBS SHALL BE BACK FILLED WITH PORTLAND CEMENT CONCRETE AND ALLOWED TO CURE.
3. THE PORTLAND CEMENT CONCRETE SHALL CONSIST OF 3000psi CONCRETE.
4. ONCE THE CONCRETE HAS CURED, THEN THE CURB MAY BE BACKFILLED TO FINAL GRADE.
5. SPACING BETWEEN CURBS SHALL BE 1/4".
6. A STRIP OF GEOTEXTILE SHALL BE PLACED OVER THE CURB JOINT AT THE REAR OF THE CURB.
7. VERTICAL GRANITE CURB SHALL MEET MeDOT STANDARD SPECIFICATIONS.
8. JOINTS SHALL BE MOTARED.
9. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 8' ; MINIMUM LENGTH = 4'
10. CIRCULAR CURB REQUIRED FOR RADIUS LESS THAN 50'.
11. PROVIDE GRANITE CURB TERMINAL SECTION IN ACCORDANCE WITH MAINE DOT STANDARD DETAILS AND SPECIFICATIONS.

1 VERTICAL GRANITE CURB DETAIL
N.T.S

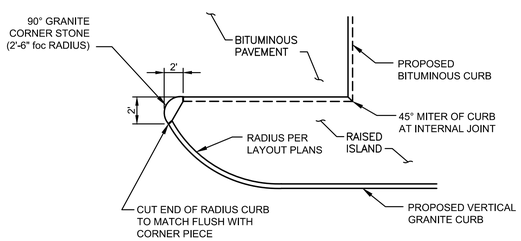


2 BITUMINOUS CURB DETAIL
N.T.S

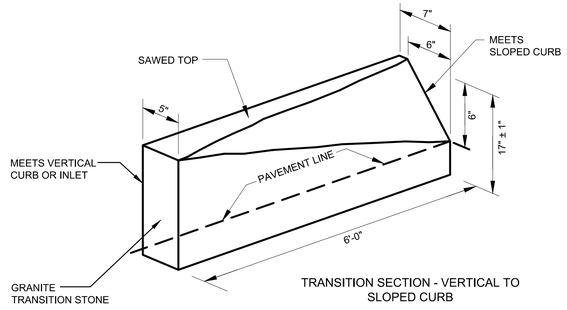


-L IS 2'-0" WHERE CURB DOES NOT ABUT SIDEWALK
-L IS 6'-0" WHERE CURB ABUTS SIDEWALK
-H IS 1" ABOVE FINAL PAVEMENT SURFACE WHERE CURB DOES NOT ABUT SIDEWALK
-H IS ¼" WHERE CURB ABUTS CROSSWALK

3 BITUMINOUS CURB TRANSITION DETAIL
N.T.S

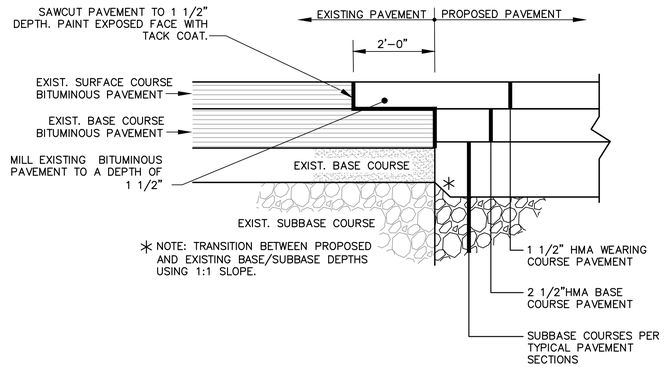


4 ISLAND RADIUS DETAIL
N.T.S



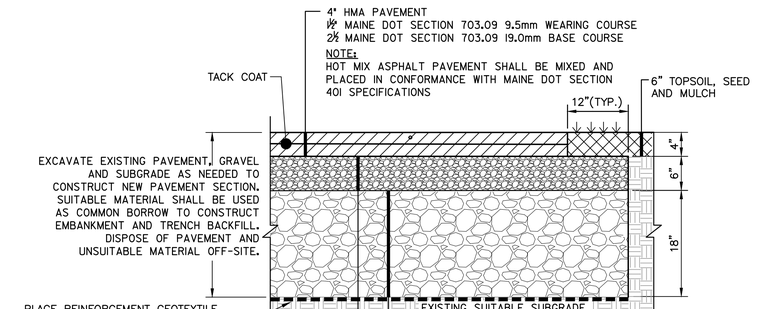
TRANSITION SECTION - VERTICAL TO SLOPED CURB

5 VERTICAL TO SLOPED GRANITE CURB TRANSITION STONE
N.T.S

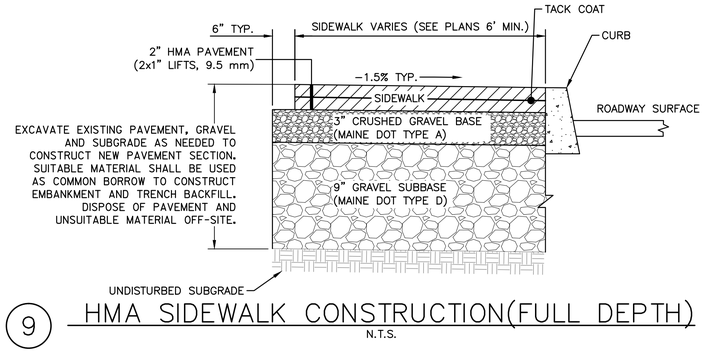


NOTE: THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. IT IS INCIDENTAL TO THE DEMOLITION PAY ITEM.

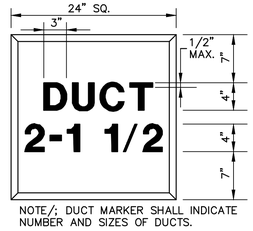
6 BITUMINOUS CONCRETE JOINT DETAIL
NOT TO SCALE



8 HMA PAVEMENT DETAIL (FULL DEPTH)
NOT TO SCALE

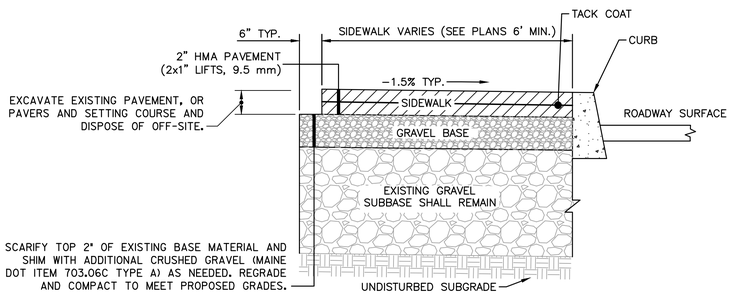


9 HMA SIDEWALK CONSTRUCTION(FULL DEPTH)
N.T.S.



NOTE/; DUCT MARKER SHALL INDICATE NUMBER AND SIZES OF DUCTS.

10 DUCT MARKER DETAIL
NOT TO SCALE



11 HMA SIDEWALK RECONSTRUCTION (REGRADE BASE)
N.T.S.

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Notes

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

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9/23/16

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BUREAU OF GENERAL SERVICES

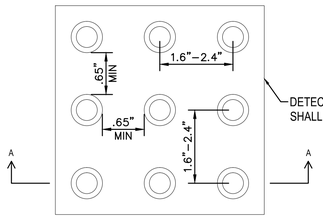
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

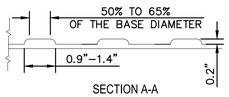
Title
CIVIL DETAILS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C501	25 of 36	0

ORIGINAL SHEET - ARCH D



DETAIL OF DETECTABLE WARNING PANEL

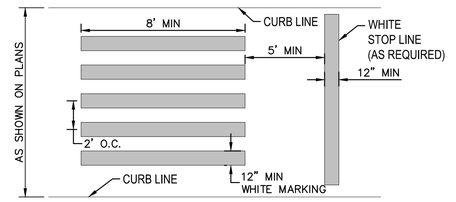


SECTION A-A

NOTE: PANEL INSTALLATIONS SHALL COMPLY WITH APPLICABLE ADA REQUIREMENTS. PANEL INSTALLATIONS SHALL BE APPROVED BY THE ENGINEER.

1 DETECTABLE WARNING PANEL FOR WHEELCHAIR RAMPS AND WALKWAYS

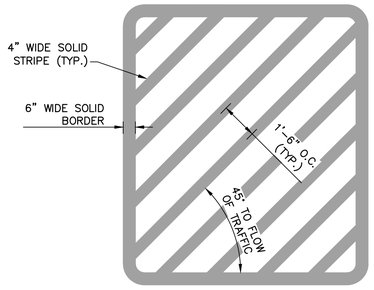
NOT TO SCALE



NOTES:
1. LAYOUT OF MARKINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO PAINT BEING APPLIED.

2 CROSSWALK / WALKWAY DETAIL

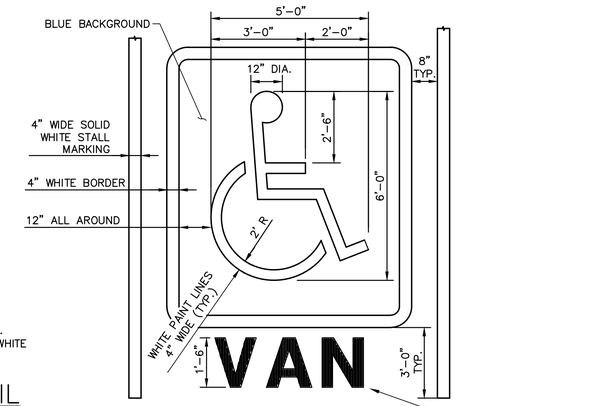
NOT TO SCALE



NOTE: PAINT COLOR SHALL BE AS SHOWN ON LAYOUT PLANS.
A.) PEDESTRIAN ISLANDS AND UNLOADING ZONES – WHITE
B.) TRAFFIC/PARKING ISLANDS – YELLOW

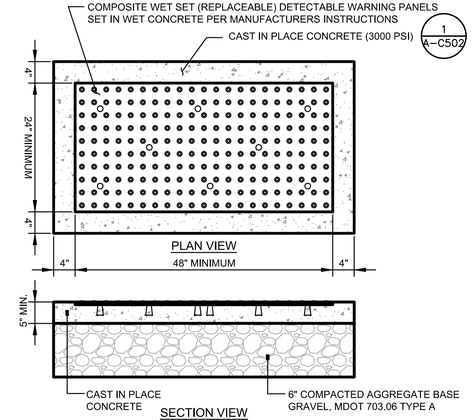
4 PAINTED ISLAND DETAIL

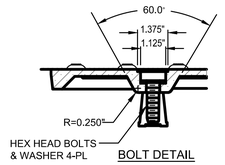
N.T.S.



4A HANDICAPPED PAVEMENT MARKING

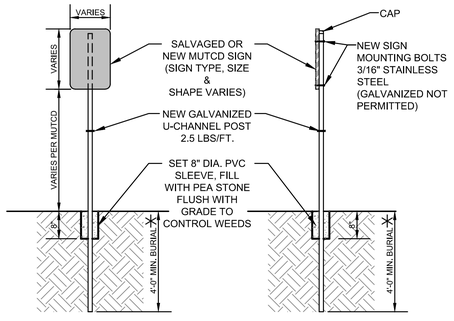
N.T.S.





NOTES:

1. COMPOSITE WET SET (REPLACEABLE) DETECTABLE WARNING PANELS SHALL BE AS MANUFACTURED BY ADA SOLUTIONS, INC. (WWW.ADATILE.COM), OR APPROVED EQUAL.
2. CAST IN PLACE CONCRETE SHALL MEET SPECIFICATIONS FOR MAINE D.O.T. CLASS A STRUCTURAL CONCRETE, MINIMUM COMPRESSIVE STRENGTH 4,000 PSI.THE CONCRETE SHALL BE SEALED PRIOR TO SETTING PANELS. THE EXPOSED CONCRETE BORDER SHALL RECEIVE A GROOVED EDGE BETWEEN THE PANEL AND CONCRETE, ALONG WITH A UNIFORM BROOM FINISH PERPENDICULAR TO THE FLOW OF PEDESTRIAN TRAFFIC.
3. TRUNCATED DOMES SHALL BE ALIGNED IN ROWS, PARALLEL AND PERPENDICULAR TO THE PREDOMINANT DIRECTION OF TRAVEL. TRUNCATED DOME BRICKS AND GRANITE PAVERS ARE NOT ALLOWED..
4. SIZE: THE DETECTABLE WARNING PANEL(S) SHALL EXTEND 24 INCHES MINIMUM IN THE DIRECTION OF TRAVEL AND THE FULL WIDTH OF THE CURB RAMP, LANDING, OR BLENDED TRANSITION TO THE STREET.
5. ORIENTATION: THE DETECTABLE WARNING PANEL SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE CURB LINE. THE PANEL SHALL BE ORIENTED TO THE DIRECTION OF TRAVEL AS IDENTIFIED BY THE POINT OF EGRESS.

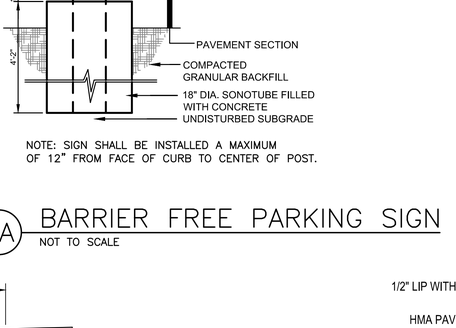


LENGTH: AS REQUIRED
WEIGHT PER LINEAR FOOT: 2.50 LBS. (MIN.)
HOLES: 3/8" DIAMETER, 1" C-C FULL LENGTH
STEEL: SHALL CONFORM TO ASTM A-499 (GRADE 60) OR ASSTM A-576 (GRADE 1070 - 1080)
FINISH: SHALL BE PAINTED WITH TWO COATS OF AN APPROVED MEDIUM GREEN BAKED ON OR AIR DRIED, PAINT OF WEATHER RESISTANT QUALITY. ALL FABRICATION SHALL BE COMPLETE BEFORE PAINTING.

✳ IN LEDGE, DRILL AND GROUT INTO STABLE ROCK A MINIMUM OF 2 FEET

5 TRAFFIC SIGN ON NEW POST

NOT TO SCALE



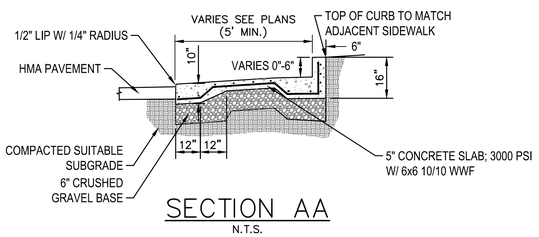
NOTE: SIGN SHALL BE INSTALLED A MAXIMUM OF 12" FROM FACE OF CURB TO CENTER OF POST.

5A BARRIER FREE PARKING SIGN

NOT TO SCALE

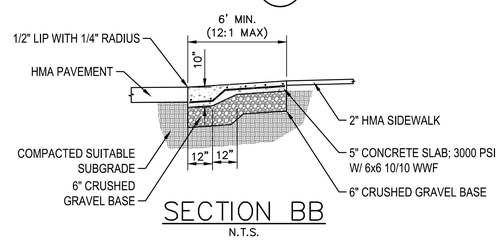
7 DETECTABLE WARNING PAVER DETAIL

NOT TO SCALE



SECTION AA

N.T.S.



SECTION BB

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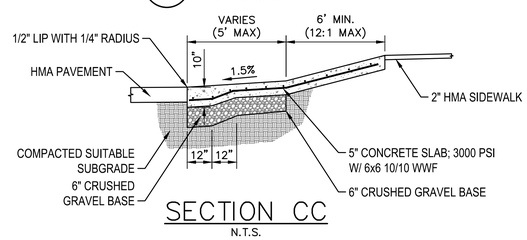
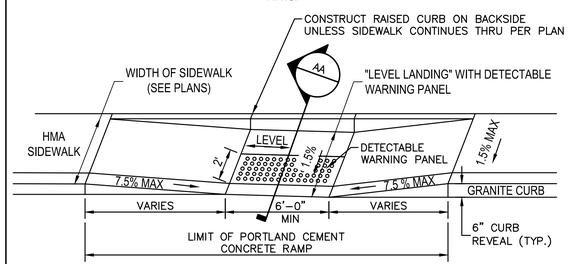


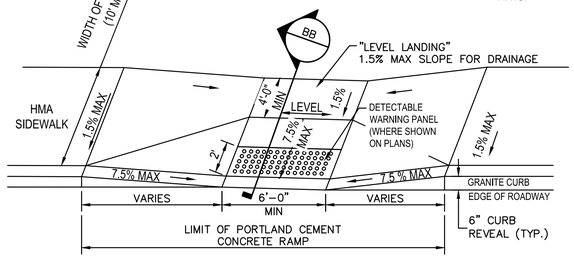
SECTION CC

N.T.S.



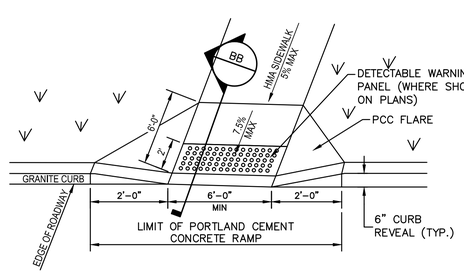
3 CURB RAMP TYPE 1

NOT TO SCALE



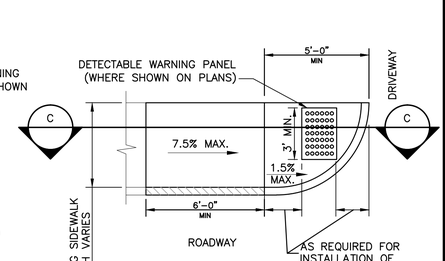
6 CURB RAMP TYPE 2

NOT TO SCALE



8 CURB RAMP TYPE 3

NOT TO SCALE



9 CURB RAMP TYPE 3A

NOT TO SCALE

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0 FOR BID	CEJ	DPN	16.09.12
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DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
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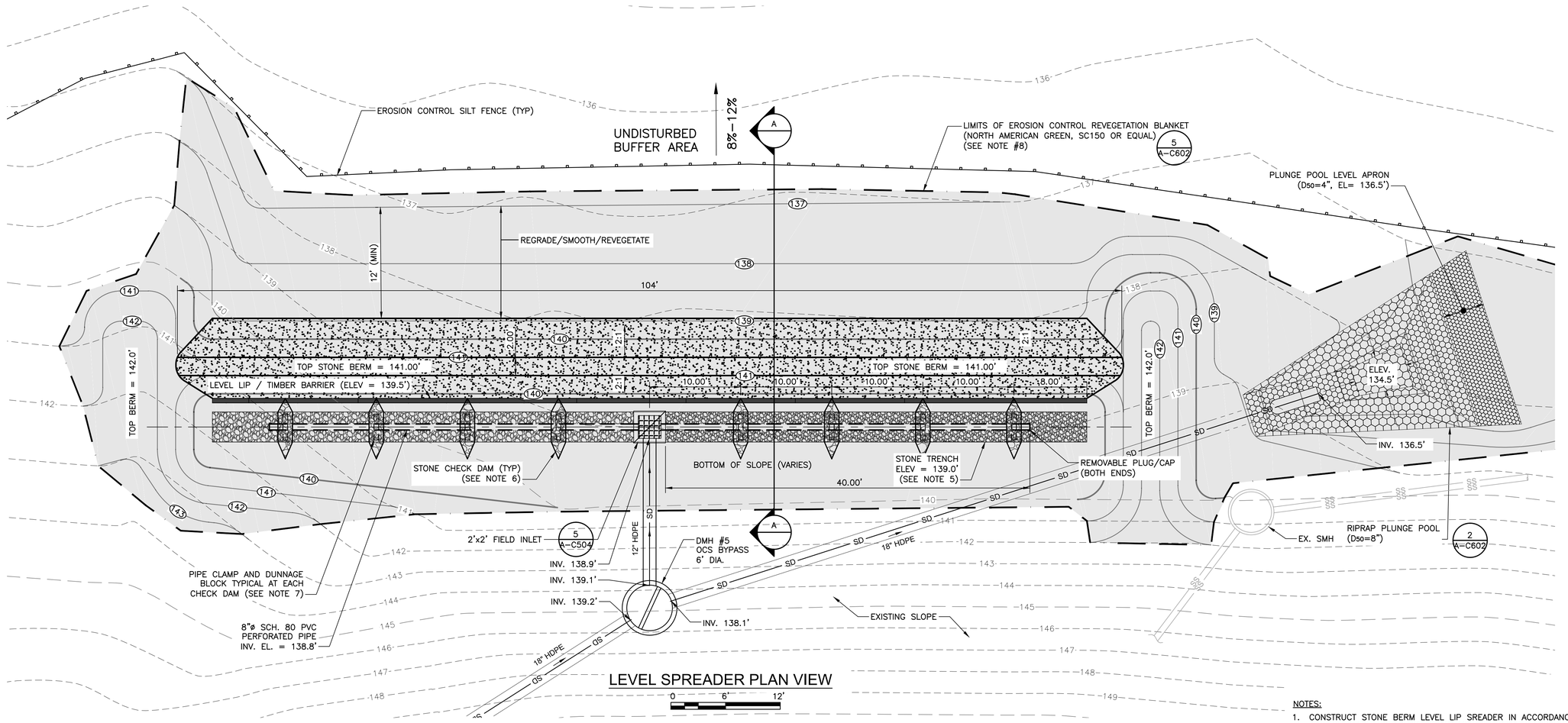
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
CIVIL DETAILS

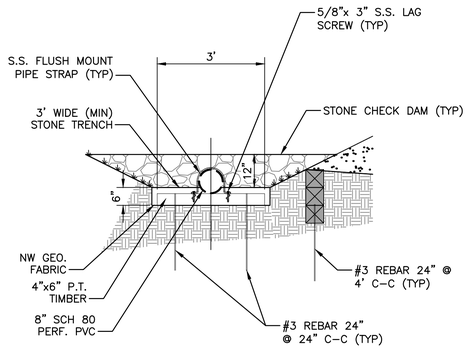
Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C502	26 of 36	0

ORIGINAL SHEET - ARCH D



LEVEL SPREADER PLAN VIEW

0 6' 12'

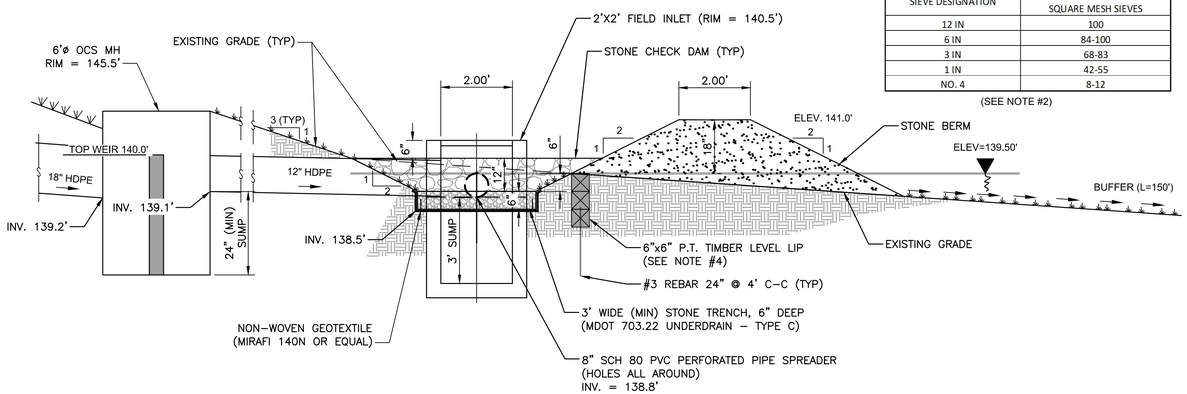


NOTES:

1. INSTALL DUNNAGE TIMBERS AND MOUNT PIPE PRIOR TO PLACING STONE IN TRENCH.
2. PIPE CLAMP SHALL BE B3180FL–8, S.S. FOR 8" PIPE AS MANUFACTURED BY EATON (B–LINE) OR EQUAL (800) 851–7415.

PIPE SUPPORT DETAIL

0 2' 4'



SECTION A-A

0 2' 4'

BERM STONE SIZE TABLE	
SIEVE DESIGNATION	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVES
12 IN	100
6 IN	84-100
3 IN	68-83
1 IN	42-55
NO. 4	8-12

(SEE NOTE #2)

NOTES:

1. CONSTRUCT STONE BERM LEVEL LIP SREADER IN ACCORDANCE WITH THE MAINE STORMWATER MANAGEMENT MANUAL, VOLUME III–BMPs TECHNICAL DESIGN, SECTION 5.2.2. AND AS SHOWN ON DRAWINGS AND DETAILS.
2. THE STONE FOR THE BERM SHALL CONSIST OF SOUND, DURABLE ROCK AND SHALL BE WELL GRADED AND CONTAIN SOME SMALL STONE AND GRAVEL WITHIN THE LIMITS OF THE BERM STONE SIZE TABLE.
3. THE STONE BERM, STONE TRENCH, PIPE SPREADER AND TIMBER LEVEL LIP SHALL BE CONSTRUCTED AS SHOWN AND SHALL BE COMPLETELY AND UNIFORMLY LEVEL, LONGITUDINALLY, AT THE DESIGN ELEVATIONS SHOWN.
4. TIMBER LEVEL LIP SHALL BE CONSTRUCTED FROM 6" x 6" P.T. TIMBERS TYPICALLY 12' LENGTHS, AND 4 FOOT MINIMUM LENGTH. TIMBER JOINTS SHALL BE STAGGERED BY 4 FEET MINIMUM TO ROWS ABOVE AND BELOW. BOTTOM ROW SHALL BE PLACED ON UNDISTURBED OR COMPACTED SUBGRADE AND SHALL BE DRILLED AND ANCHORED WITH #3 REBAR EVERY 4 FEET. MIDDLE AND TOP COURSES SHALL BE SECURELY ANCHORED TO LOWER COURSE WITH 10" TIMBER LAG SCREWS COUNTERSUNK ¼" MINIMUM EVERY 4 FEET.
5. STONE TRENCH SHALL BE CONSTRUCTED LEVEL AT ELEVATION SHOWN. TRENCH SHALL BE 3 FEET WIDE (MIN) AND 6" DEPTH. PLACE TRENCH ON UNDISTURBED OR COMPACTED SUBGRADE OVER NON–WOVEN GEOTEXTILE. STONE FOR TRENCH SHALL BE IN ACCORDANCE WITH MEDOT SPECIFICATION #703.22 FOR UNDERDRAIN, TYPE C.
6. STONE CHECK DAMS SHALL BE PLACED AS SHOWN. STONE FOR CHECK DAMS SHALL BE COMPRISED OF WELL GRADED CRUSHED ROCK WITH MAXIMUM STONE SIZE OF 4 INCHES AND MINIMUM SIZE OF 1 INCH CONTAINING NO FINES OR ROCK LESS THAN MINIMUM STONE SIZE.
7. 4" x 6" P.T.x3' TIMBER DUNNAGE BLOCK AND PIPE CLAMP SHALL BE INSTALLED AT EACH CHECK DAM LOCATION AS SHOWN ON DETAILS. DUNNAGE BLOCKS SHALL BE LAID FLAT (6" WIDE) ON BOTTOM OF STONE TRENCH SUBGRADE AND SHALL BE DRILLED AND ANCHORED WITH #3 REBAR SIX INCHES FROM EACH END PRIOR TO PLACING UNDERDRAIN STONE FOR STONE TRENCH. PLACE PIPE AND INSTALL PIPE HOLD DOWN CLAMPS WITH 5/8" BY 3" STAINLESS STEEL LAG SCREWS AND WASHERS.
8. INSTALL EROSION CONTROL BLANKET ON ALL DISTURBED AREAS IN ACCORDANCE WITH MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL (MAY 2016) SECTION D.2. REVEGETATE WITH PERMANENT SEEDING PER MDOT SPECIFICATION SECTION 618, AND SEEDING METHOD #2 WITH ROADSIDE MIXTURE NUMBER 3.
9. PROVIDE 12"X18" ALUMINUM SIGNS ON 4' AFG U–CHANNEL POSTS AT ALL 4 CORNERS OF MEADOW BUFFER. SIGNS SHALL READ: "BUFFER AREA: GROUND DISTURBANCE PROHIBITED"

Stantec

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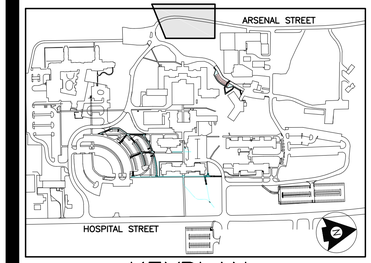
Notes



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

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9/23/16

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Augusta, Maine

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195210829	AS NOTED	
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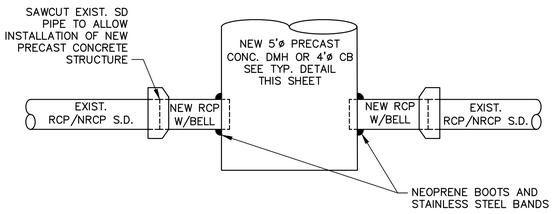
ORIGINAL SHEET - ARCH D

NOTE:

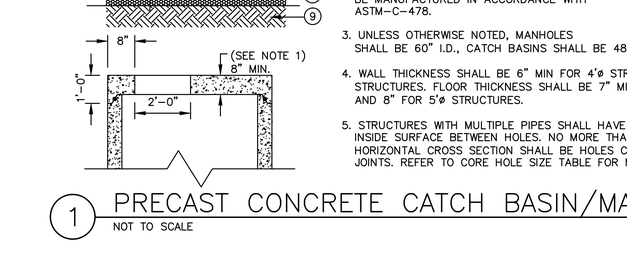
THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. IT IS INCIDENTAL TO THE RESPECTIVE CATCH BASIN/DRAIN MANHOLE PAY ITEMS.



* CONTRACTOR SHALL VERIFY EXISTING STORMDRAIN SIZE AND ELEVATIONS SHOWN ON PLANS PRIOR TO FABRICATION. ADJUST INV. ELEVATIONS, WITH APPROVAL OF ENGINEER, AS NECESSARY.

3 EXISTING S.D. TO NEW DRAINAGE STRUCTURE CONNECTION DETAIL

NOT TO SCALE

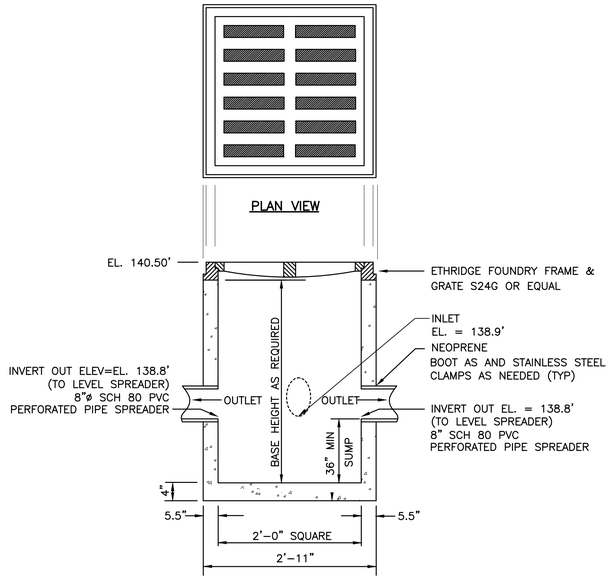


NOTE:

THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. IT IS INCIDENTAL TO THE EXCAVATION PAY ITEM.

2 ADJUST EXISTING STRUCTURE DETAIL

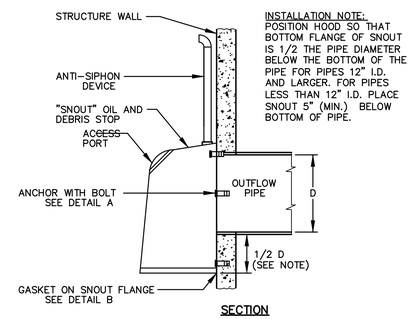
NOT TO SCALE



NOTES:
1. CONCRETE 5000 PSI AFTER 28 DAYS.
2. REINFORCING: 1 LAYER 4x4 / 4x4 WWM.

5 FIELD INLET (LEVEL SPREADER)

N.T.S.



NOTES:

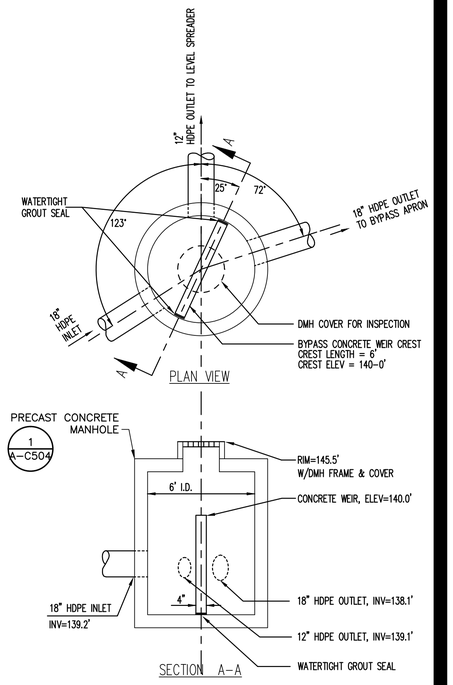
1. OUTLET HOOD SHALL BE A "SNOUT" OIL AND DEBRIS STOP SUPPLIED BY LeBARON FOUNDRY, INC. OR EQUAL.

2. CONTRACTOR SHALL REMOVE AND CLEAN ACCUMULATED SEDIMENT AND DEBRIS FROM STRUCTURE SUMPS PRIOR TO INSTALLATION OF HOODS.

3. CONTRACTOR SHALL CUT OUTLET FLUSH TO STRUCTURE WHERE REQUIRED FOR PROPER FIT.

8 DRAIN MANHOLE OUTLET HOOD DETAIL (SNOUT)

N.T.S.

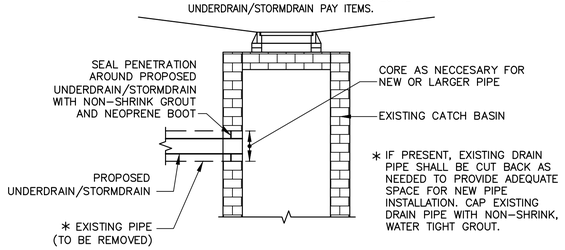


9 BYPASS OUTLET STRUCTURE (DMH #5)

N.T.S.

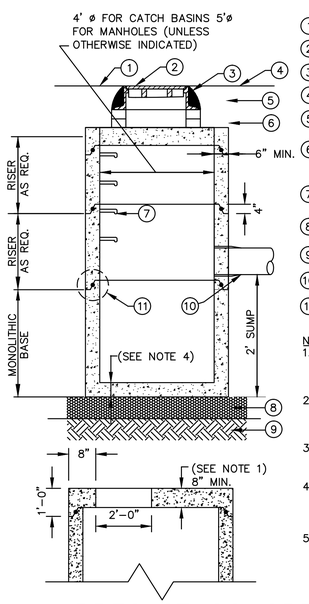
NOTE:

THERE IS NO SEPARATE PAY ITEM FOR THIS WORK. IT IS INCIDENTAL TO THE RESPECTIVE UNDERDRAIN/STORMDRAIN PAY ITEMS.



7 STORMDRAIN/UNDERDRAIN TIE-IN TO EXISTING CATCH BASIN DETAIL

N.T.S.



1. UNPAVED SURFACE (4" TOPSOIL, SEED AND MULCH)
2. MANHOLE FRAME & COVER (LABELED DRAIN)/CB FRAME AND GRATE
3. FRAME TO BE SET IN FULL BED OF MORTAR
4. PAVED SURFACE (BITUMINOUS PAVEMENT)
5. MORTAR
6. ADJUST TO GRADE WITH BRICK OR PRECAST CONCRETE RINGS: MAX. 6" ADJUSTMENT
7. COPOLYMER POLYPROPYLENE MANHOLE STEP @ 12" O.C. (TYP) (MANHOLES ONLY)
8. 12" CRUSHED STONE
9. UNDISTURBED SUBGRADE
10. NEOPRENE BOOT AND STAINLESS STEEL CLAMPS
11. BUTYL RUBBER JOINTS

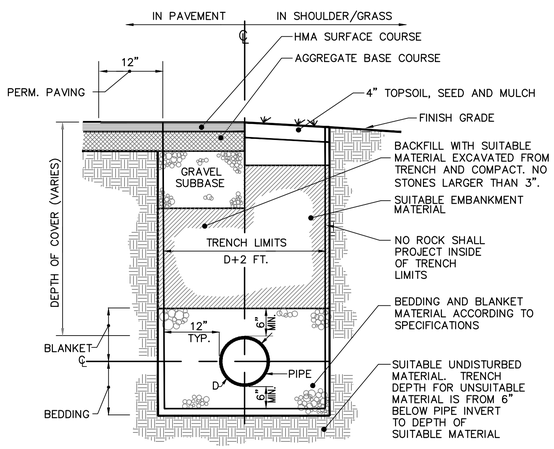
CORE HOLE SIZE

PIPE SIZE	RCP CORE HOLE DIA.		PLASTIC CORE HOLE DIA.	
INCHES	INCHES	FEET	INCHES	FEET
6			7	0.6
12	18	1.5	18	1.5
15	22	1.8	20	1.7
18	26	2.2	24	2.0
24	34	2.8	32	2.7
30	42	3.5	42	3.5
36	48	4.0	48	4.0
42	54	4.5	54	4.5
48	64	5.3	64	5.3
54	72	6.0		
60	78	6.5		

NOTES:
1. PRECAST CONCRETE STRUCTURES AND CASTINGS SHALL ACCOMODATE HS-20 LOADINGS. SUBMIT DESIGN CALCULATIONS TO ENGINEER FOR REVIEW.
2. PRECAST CONCRETE STRUCTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM-C-478.
3. UNLESS OTHERWISE NOTED, MANHOLES SHALL BE 60" I.D., CATCH BASINS SHALL BE 48" I.D.
4. WALL THICKNESS SHALL BE 6" MIN FOR 4'ø STRUCTURES AND 7" FOR 5' ø STRUCTURES. FLOOR THICKNESS SHALL BE 7" MIN. FOR 4'ø STRUCTURES AND 8" FOR 5'ø STRUCTURES.
5. STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MIN OF 12" OF INSIDE SURFACE BETWEEN HOLES. NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES CLOSER THAN 3" TO JOINTS. REFER TO CORE HOLE SIZE TABLE FOR MIN. HOLE SIZES.

1 PRECAST CONCRETE CATCH BASIN/MANHOLE DETAIL

NOT TO SCALE



4 STORM DRAIN TRENCH DETAIL

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Scarborough ME 04074 U.S.A.
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Notes

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

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File Name: A_C-503_thru_C-505_details.dwg | Dwn. | Chkd. | Dsgn. | YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

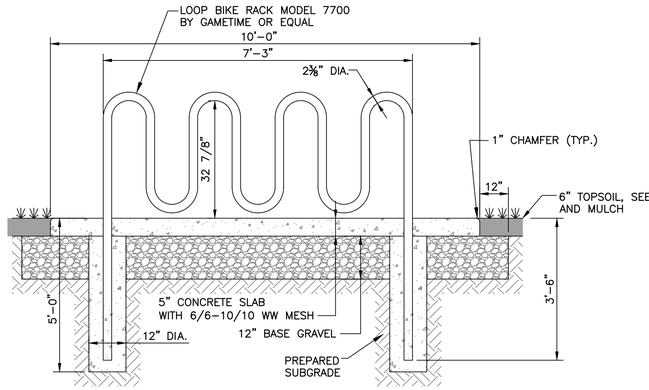
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

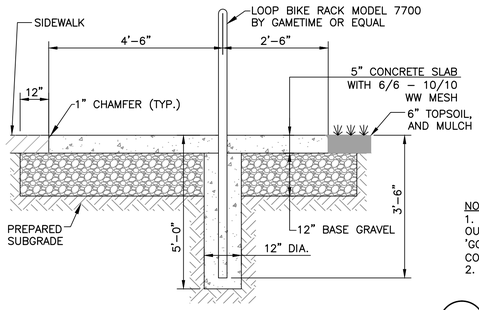
Title
CIVIL DETAILS

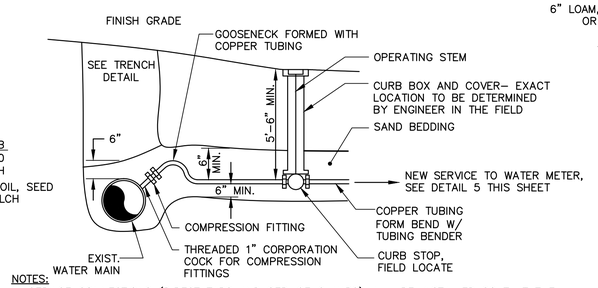
Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C504	28 of 36	0

ORIGINAL SHEET - ARCH D



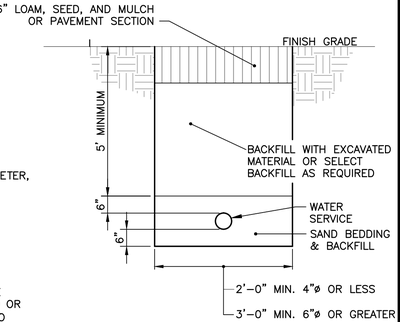
1 7 SPACE RIBBON STYLE BIKE RACK
N.T.S.



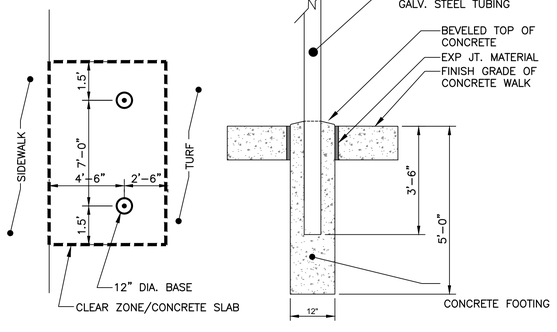


NOTES:
1. SERVICE CONNECTIONS (DIRECT TAPS AND SERVICE CLAMPS) WILL BE INSTALLED SO THAT THE OUTLET IS AT AN ANGLE OF NOT MORE THAN 45° ABOVE THE HORIZONTAL. ALWAYS PUT A BEND OR 'GOOSENECK' IN THE SERVICE LINE PRIOR TO CONNECTING TO PROVIDE FLEXIBILITY AND 'GIVE' TO COUNTERACT THE EFFECTS OF A LOAD DUE TO SETTLEMENT OR EXPANSION AND/OR CONTRACTION.
2. COORDINATE TAPPING OF MAINS WITH THE GREATER AUGUSTA UTILITY DISTRICT.

8 WATER SERVICE CONNECTION DETAIL
N.T.S.

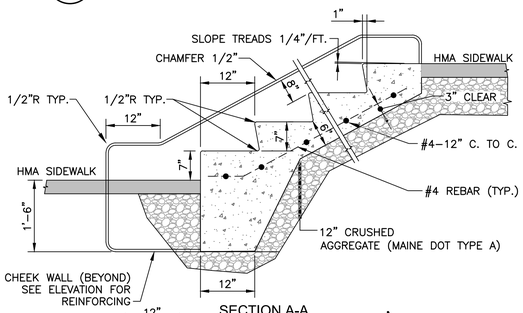


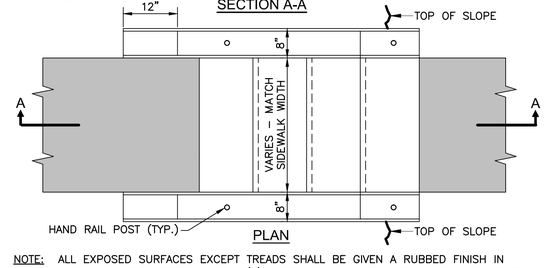
9 WATER SERVICE TRENCH DETAIL
NOT TO SCALE



MFR: GAME TIME LOOP BIKE RACK MODEL #7700, IN-GROUND MOUNT. POWDER COAT FINISH
COLOR: METALLIC

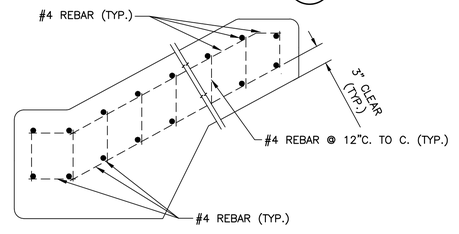
2 BICYCLE RACK MOUNTING DETAIL
N.T.S.



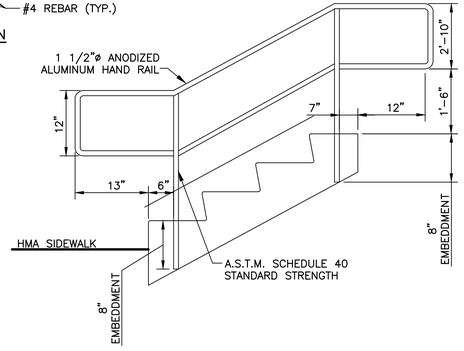


NOTE: ALL EXPOSED SURFACES EXCEPT TREADS SHALL BE GIVEN A RUBBED FINISH IN ACCORDANCE WITH MDOT SECTION 502.14(d)2. TREADS SHALL BE GIVEN A BROOMED FINISH. STEPS OF ALTERNATE BUT EQUAL DESIGN, USING PRECAST PARTS, MAY BE USED UPON THE APPROVAL OF THE ENGINEER. NUMBER OF STEPS AS SHOWN ON LAYOUT PLANS.

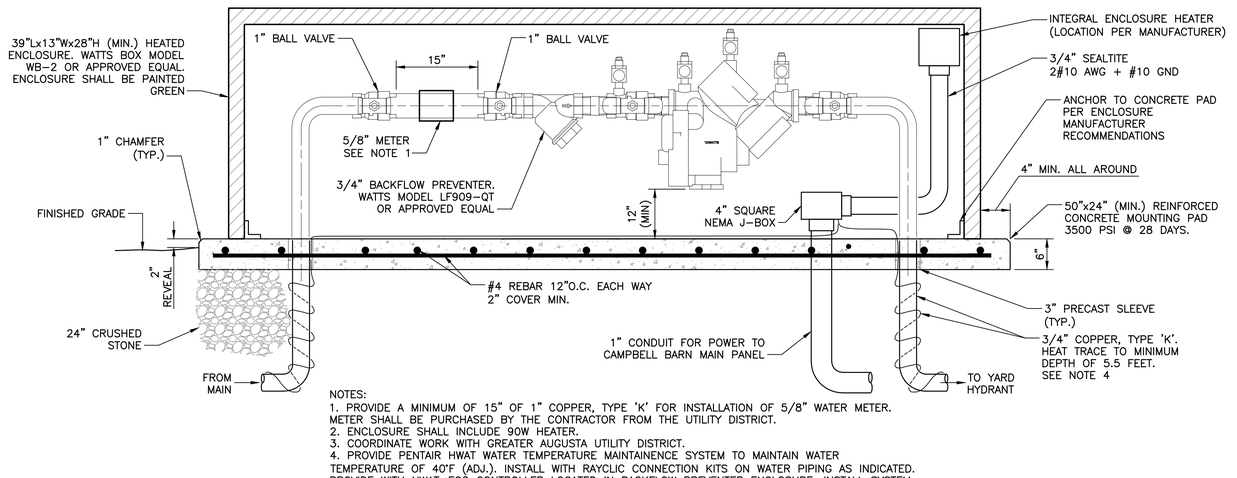
3 EXTERIOR CONCRETE STEP DETAIL
N.T.S.



CHEEK WALL ELEVATION

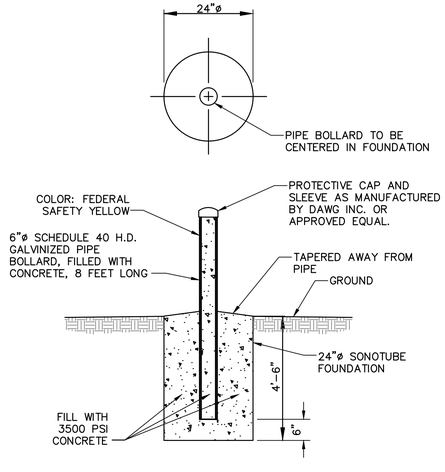


4 ALUMINUM HAND RAIL DETAIL
N.T.S.

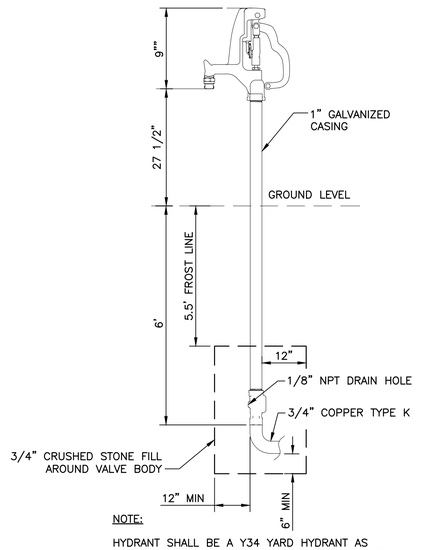


NOTES:
1. PROVIDE A MINIMUM OF 15" OF 1" COPPER, TYPE 'K' FOR INSTALLATION OF 5/8" WATER METER. METER SHALL BE PURCHASED BY THE CONTRACTOR FROM THE UTILITY DISTRICT.
2. ENCLOSURE SHALL INCLUDE 90W HEATER.
3. COORDINATE WORK WITH GREATER AUGUSTA UTILITY DISTRICT.
4. PROVIDE PENTAIR HWAT WATER TEMPERATURE MAINTAINENCE SYSTEM TO MAINTAIN WATER TEMPERATURE OF 40°F (ADJ.). INSTALL WITH RAYCLIC CONNECTION KITS ON WATER PIPING AS INDICATED. PROVIDE WITH HWAT-ECO CONTROLLER LOCATED IN BACKFLOW PREVENTER ENCLOSURE. INSTALL SYSTEM PER MANUFACTURERS RECOMMENDATIONS.

5 HEATED BACKFLOW PREVENTER ENCLOSURE WITH WATER METER
NOT TO SCALE



6 PIPE BOLLARD DETAIL
NOT TO SCALE



NOTE:
HYDRANT SHALL BE A Y34 YARD HYDRANT AS MANUFACTURED BY WOODFORD OR APPROVED EQUAL.

7 FREEZELESS YARD HYDRANT
NOT TO SCALE

Stantec

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Notes

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0 FOR BID	CEJ	DPN	16.09.12
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File Name: A_C-503_thru_C-505_details.dwg — Dwn. | Chkd. | Dsgn. | YY.MM.DD

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No. 10683
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PROFESSIONAL ENGINEER
9/23/16

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Augusta, Maine

Title
CIVIL DETAILS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C505	29 of 36	0

ORIGINAL SHEET - ARCH D

BASIC STANDARDS (EROSION AND SEDIMENT CONTROL PLAN)

THIS PLAN FOR EROSION AND SEDIMENTATION CONTROL (ESC) HAS BEEN DEVELOPED TO PROVIDE A STRATEGY FOR CONTROLLING SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION OF THE PROPOSED DEVELOPMENT. THIS PLAN IS BASED ON STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS AS CONTAINED IN THE MOST RECENT VERSION OF THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL FOR THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ON APPENDIX A, EROSION AND SEDIMENTATION CONTROL, OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION RULES, 06-96, CHAPTER 500 STORMWATER MANAGEMENT, AMENDED DECEMBER 27, 2006. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED HEREIN AND ALL CONDITIONS INCLUDED IN THE ENVIRONMENTAL PERMITS OBTAINED FOR THIS PROJECT.

1.0 GENERAL CONSTRUCTION DETAILS

THE EQUIPMENT ANTICIPATED TO BE USED FOR CONSTRUCTION WILL LIKELY INCLUDE THE FOLLOWING: EXCAVATORS, BULLDOZERS, LOADERS, MILLING MACHINES, DUMPTRUCKS, COMPACTORS, GRADERS AND PAVERS. INTENSIVE ON-SITE EROSION CONTROL METHODS SHALL BE UTILIZED. THE FOLLOWING METHODS SHALL BE UNDERTAKEN TO PROVIDE MAXIMUM PROTECTION TO THE SOIL, WATER, AND ABUTTING LANDS:

1. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS AFTER FINAL GRADING HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE OR PRACTICAL TO PERMANENTLY STABILIZE DISTURBED LAND, TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED WITHIN SEVEN (7) CALENDAR DAYS OF EXPOSURE OF SOIL. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE AT A MINIMUM THE APPLICATION OF HAY OR WOOD FIBER MULCH AT A RATE OF 75-90 LBS PER 1000 SF BY THE WET APPLICATION METHOD AS OUTLINED IN THE CONTRACT SPECIFICATIONS. WITHIN 75 FEET OF A WETLAND AREA (INCLUDING LAKES AND STREAMS), MULCH SHALL BE APPLIED WITHIN 48 HOURS, OR PRIOR TO ANY STORM EVENT, WHICHEVER IS FIRST.

2. PRIOR TO ANY EARTHMOVING OPERATION, SILTATION FENCE SHALL BE INSTALLED ACROSS THE SLOPE ON THE CONTOUR AT THE DOWNHILL LIMIT OF THE WORK AS PROTECTION AGAINST CONSTRUCTION RELATED EROSION. SILTATION FENCE SHALL ALSO BE INSTALLED AT THE DOWNHILL LIMIT OF THE BASE OF SOIL STOCKPILES.

3. TEMPORARY SILTATION CONTROL RISERS SHALL BE INSTALLED AT ALL EXISTING CULVERT/ STORM DRAIN INLET LOCATIONS IN ACCORDANCE WITH MAINE EROSION AND SEDIMENTATION CONTROL BMP B-3.

4. INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL CATCH BASINS WITHIN THE WORK AREA AND SHOWN ON THE DRAWINGS. INLET SEDIMENT FILTERS SHALL CONSIST OF SILT SACK FILTER BAGS AS MANUFACTURED BY ACF ENVIRONMENTAL OR DANDY BAG AS MANUFACTURED BY MIRAFI.

5. ALL SILTATION FENCE SHALL BE INSPECTED BY THE CONTRACTOR ON A WEEKLY BASIS, FOLLOWING ANY SIGNIFICANT RAINFALL (1/2 INCH OR MORE) OR SNOWMELT, OR DAILY DURING PROLONGED RAINFALL. ALL DAMAGED SILTATION FENCE SHALL BE REPAIRED AND/OR REPLACED IMMEDIATELY. TRAPPED SEDIMENT SHALL BE REMOVED BEFORE IT HAS ACCUMULATED TO ONE HALF OF THE INSTALLED SILTATION FENCE HEIGHT. SILTATION FENCE NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION SHALL ALSO BE REPAIRED AND/OR REPLACED AS NECESSARY. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILTATION FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE INCORPORATED INTO THE EXISTING GRADE, SEEDED, AND MULCHED.

6. REMOVAL OF TEMPORARY SEDIMENT CONTROL MEASURES SHALL OCCUR WITHIN THIRTY (30) DAYS OF PERMANENT STABILIZATION.

7. TO PROVIDE PERMANENT PROTECTION AGAINST EROSION, RIPRAP SHALL BE PLACED AT ALL STORM DRAIN INLETS AND OUTLETS AS SHOWN ON THE CONTRACT DRAWINGS IN ACCORDANCE WITH MAINE EROSION AND SEDIMENTATION CONTROL BMP E-2 AND E-3.

8. ALL DITCH BASES TO BE SEEDED SHALL ALSO BE LINED WITH EROSION CONTROL MESH TO STABILIZE THE DITCH CHANNELS UNTIL VEGETATION IS ESTABLISHED. HAY-BALE CHECK DAMS AND TEMPORARY MULCHING SHALL BE USED TO STABILIZE ANY SECTION OF ROUGH GRADED DITCH THAT WILL NOT BE FINAL GRADED AND PERMANENTLY STABILIZED WITHIN SEVEN (7) DAYS OF INITIAL DISTURBANCE.

9. NATIVE TOPSOIL SHALL BE SAVED, STOCKPILED, MULCHED, AND REUSED AS MUCH AS POSSIBLE ON THE SITE. STOCKPILES SHALL BE STABILIZED BY SEEDING AND MULCHING WITHIN SEVEN (7) DAYS OF THE FORMATION OF THE STOCKPILE. NEAR WETLAND AREAS (INCLUDING LAKES AND STREAMS), SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 24 HOURS OF THE FORMATION OF THE STOCKPILE. UPHILL OF STOCKPILES, STABILIZED DITCHES AND/OR BERMS SHALL BE CONSTRUCTED TO DIVERT STORMWATER RUNOFF AWAY FROM THE PILES. SIDE SLOPES OF TOPSOIL STOCKPILES SHALL NOT EXCEED 2:1.

10. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED WHERE CONTRACTOR ACCESS ROUTES CROSS FROM PAVED / GRAVEL ROADS ONTO TURF AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MATERIALS TRACKED FROM THE WORK AREAS AND SHALL CLEAN OR SWEEP THE AREAS FREQUENTLY AND AS NECESSARY TO MAINTAIN A CLEAN SITE AND PREVENT FURTHER TRACKING ONTO EXISTING PAVEMENTS.

1.1 SEEDING AND REVEGETATION PLAN

UPON COMPLETION OF SITE CONSTRUCTION, ALL AREAS PREVIOUSLY DISTURBED SHALL BE TREATED AS STATED BELOW. THESE AREAS SHALL BE CLOSELY MONITORED BY THE CONTRACTOR UNTIL SUCH TIME AS A SATISFACTORY GROWTH OF VEGETATION IS ESTABLISHED.

1. LOAM SHALL BE SPREAD OVER ALL DISTURBED AREAS AND GRADED TO A UNIFORM DEPTH OF 4 INCHES.

2. ALL EXPOSED SURFACES NOT TO BE FINAL GRADED FOR THIRTY (30) DAYS OR MORE SHALL BE SEEDED WITH WINTER RYE, OATS, ANNUAL RYEGRASS, OR SUDANGRASS PERENNIAL, DEPENDING ON THE TIME OF YEAR IN ACCORDANCE WITH MAINE EROSION AND SEDIMENTATION CONTROL BMP A-2 FOR DETAILS AND SPECIFICATIONS.

3. AGRICULTURAL LIMESTONE AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO SEEDING AT THE RATE OF 1-2 TONS PER ACRE AND 15 LBS PER 1,000 SF, RESPECTIVELY, PER THE CONTRACT SPECIFICATIONS.

4. DISTURBED AREAS SHALL BE SEEDED AT THE RATE OF 1 LB. PER 1000 SF. THE SEED MIX SHALL BE SPECIFIED IN THE CONTRACT SPECIFICATIONS.

5. SEEDING SHALL BE COMPLETED BETWEEN THE DATES OF MAY 1 AND SEPTEMBER 15. IRRIGATION SHALL BE COMPLETED DURING THE PERIOD OF JUNE 1 TO AUGUST 15, AS NECESSARY.

6. AREAS WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.

7. IN ACCORDANCE WITH MAINE EROSION AND SEDIMENTATION CONTROL BMP A-1 AND THE CONTRACT SPECIFICATIONS, HAY MULCH SHALL BE APPLIED AT THE RATE OF 75-90 LBS. PER 1000 SF. MULCH SHALL BE ANCHORED WITH BIODEGRADABLE NETTING ON STEEP SLOPES (7:1 OR GREATER) AND ON AREAS WITHIN 100 FEET OF LAKES, STREAMS, AND WETLANDS. EROSION CONTROL MIX CAN BE USED ON SLOPES BETWEEN 3:1 AND 2:1.

8. ALL MULCHES SHALL BE INSPECTED PERIODICALLY, PARTICULARLY AFTER RAINFALL. IF LESS THAN 90% OF THE DISTURBED AREA IS COVERED, ADDITIONAL MULCH SHALL BE SPREAD.

9. ALL SEDIMENT CONTROL STRUCTURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF THE AREA IS VEGETATED WITH VIGOROUS GROWTH.

1.2 FALL/WINTER SEEDING AND STABILIZATION

IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENTATION CONTROL BMP A-3, PLEASE NOTE THE FOLLOWING:

1. BY SEPTEMBER 1 OF EACH YEAR OF CONSTRUCTION -

ALL GRASS-LINED DITCHES AND CHANNELS SHALL BE CONSTRUCTED AND STABILIZED. ALL SLOPES GREATER THAN 7:1 TO BE VEGETATED SHALL BE SEEDED AND MULCHED (PAST SEPTEMBER 15, MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 20:1, AND HEAVY GRADE MATS AND BIODEGRADABLE NETTING SHOULD BE USED IN CONJUNCTION ON SLOPES GREATER THAN 12:1 AND ON SIDE SLOPES OF DITCHES). IF THIS IS NOT COMPLETED THEN:

2. BY SEPTEMBER 15 OF EACH YEAR OF CONSTRUCTION -

ALL REMAINING DISTURBED SOILS HAVING A SLOPE LESS THAN 15% SHALL BE SEEDED AND MULCHED. IF THIS IS NOT COMPLETED THEN:

3. BY OCTOBER 1 OF EACH YEAR OF CONSTRUCTION -

SOD SHALL BE PLACED IN ALL DITCH CHANNELS WHERE VEGETATION HAS NOT BEEN ESTABLISHED. SOD SHALL EXTEND TO A HEIGHT OF ONE FOOT ABOVE DITCH CHANNEL BOTTOM. ALL SLOPES AND DISTURBED SOILS SHALL BE SEEDED TO A WINTER COVER CROP OF RYE AT A RATE OF 3 LBS PER 1000 SF. SLOPES LESS THAN 7:1 SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS PER 1000 SF AND ANCHORED WITH PLASTIC NETTING. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR FAILS TO COVER AT LEAST 75% OF THE DISTURBED SOIL BY NOVEMBER 1, OR IF SOD IS NOT PLACED IN THE APPROPRIATE DITCH CHANNELS, THEN:

4. BY NOVEMBER 1 OF EACH YEAR OF CONSTRUCTION -

THE DITCH SHALL BE LINED WITH STONE RIPRAP. THE SLOPE SHALL BE COVERED WITH EROSION CONTROL MIX OR STONE RIPRAP AND ALL REMAINING DISTURBED SOILS SHALL BE STABILIZED WITH SOD, OR ALTERNATIVELY:

5. BY NOVEMBER 15 OF EACH YEAR OF CONSTRUCTION -

THE DISTURBED SOIL SHALL BE MULCHED AT THE WINTER RATE (150 LBS PER 1000 SF) AND ANCHORED PROPERLY. ONLY MINIMAL CONSTRUCTION, INCLUDING VEGETATION CLEARING IN WETLANDS AND ADJACENT UPLANDSED IS ANTICIPATED TO TAKE PLACE AFTER NOVEMBER 15.

6. THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 TO APRIL 15.

a. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME. THE EXPOSED AREA SHALL BE LIMITED TO THAT IN WHICH WORK IS TO OCCUR DURING THE FOLLOWING 15 DAYS AND THOSE AREAS THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.

b. HAY MULCH SHALL BE APPLIED TO A DEPTH OF 4 INCHES (150 LBS. PER 1000 SF).

c. AFTER EACH DAY OF FINAL GRADING, ANY DISTURBED AREA SHALL BE STABILIZED WITH ANCHORED MULCH OR EROSION CONTROL MESH. NO GROUND SURFACE SHOULD BE VISIBLE THROUGH THE MULCH.

d. SOIL STOCKPILES SHALL BE MULCHED AT WINTER RATES WITHIN 24 HOURS OF STOCKING AND REESTABLISHED PRIOR TO RAIN OR SNOWFALL. NO STOCKPILES SHALL BE PLACE WITHIN 100 FEET OF LAKES, STREAMS, WETLANDS, OR OTHER NATURAL RESOURCES.

e. ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES (WETLAND, RIVER, STREAM OR BROOK), IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH AN EROSION CONTROL COVER. DURING WINTER CONSTRUCTION, A DOUBLE ROW OF SEDIMENT BARRIERS (SILT FENCE BACKED WITH HAYBALES) SHALL BE PLACED BETWEEN THE DISTURBED AREA AND THE NATURAL RESOURCE.

1.3 MONITORING DETAILS

SEDIMENTATION AND EROSION CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR, AND ALL STRUCTURES DAMAGED BY CONSTRUCTION EQUIPMENT, VANDALS, OR THE ELEMENTS SHALL BE REPAIRED IMMEDIATELY. FOLLOWING RAINSTORMS AND DURING RUNOFF EVENTS, THE SITE AND ALL STRUCTURES SHALL BE REPAIRED AND/OR ADDITIONAL EROSION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO CONTINUING THE CONSTRUCTION.

FOLLOWING THE FINAL SEEDING, THE SITE SHALL BE INSPECTED TO ENSURE THAT THE VEGETATION HAS BEEN ESTABLISHED. RESEEDING SHALL BE CARRIED OUT, WITH FOLLOW-UP INSPECTIONS, IN THE EVENT OF ANY UNSATISFACTORY GROWTH.

AFTER THE PROJECT AREA HAS STABILIZED, THE CONTRACTOR SHALL REMOVE ALL SILTATION FENCE AND ANY OTHER TEMPORARY EROSION CONTROL MEASURES.

IMPLEMENTATION AND MONITORING OF EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNDER THE SUPERVISION OF THE PROJECT ENGINEER AND THE RESIDENT PROJECT REPRESENTATIVE FOR THE MAINE BUREAU OF GENERAL SERVICES.

2.0 INSPECTION AND MAINTENANCE

THE OWNER WILL HAVE A RESIDENT PROJECT REPRESENTATIVE (RPR) AT THE SITE DURING THE CONSTRUCTION PROJECT. THE RPR WILL CONDUCT ROUTINE INSPECTIONS IN ADDITION TO THOSE OF THE CONTRACTOR OF ALL EROSION AND SEDIMENTATION CONTROLS. THE RPR WILL ALSO BE RESPONSIBLE FOR ENSURING THAT MAINTENANCE OF EROSION AND SEDIMENTATION STRUCTURES, WHEN REQUIRED, IS PERFORMED IN A TIMELY AND EFFECTIVE MANNER. AFTER CONSTRUCTION, AN OWNER DESIGNATED PERSON, UNDER THE SUPERVISION OF BGS PROPERTY MANAGEMENT WILL CONDUCT INSPECTIONS AND PERFORM ROUTINE MAINTENANCE. THE CONTACT INFORMATION FOR BGS PROPERTY MANAGEMENT DIVISION IS AS FOLLOWS:

MS. JAN PATTERSON, DIRECTOR PROPERTY MANAGEMENT DIVISION
STATE OF MAINE, BUREAU OF GENERAL SERVICES
77 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0077
PH: (207) 287-4155

2.1 INSPECTION SCHEDULE DURING CONSTRUCTION

ALL AREAS DISTURBED BY CONSTRUCTION THAT HAVE NOT BEEN PERMANENTLY STABILIZED SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS BY THE CONTRACTOR. THESE AREAS SHALL ALSO BE INSPECTED (WITHIN 24 HOURS) FOLLOWING ANY STORM EVENT IN WHICH 0.5 INCHES OR MORE OF RAIN OCCURS IN A 24-HOUR PERIOD. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENTATION CONTROLS IN ACCORDANCE WITH THE SCHEDULE INDICATED ABOVE AND NOTE ANY REQUIRED CORRECTIONS IN THE DAILY INSPECTION REPORT. BLANK INSPECTION FORMS AND CERTIFICATION FORMS FOR EROSION CONTROL WILL BE SUPPLIED BY THE RPR FOR USE BY THE CONTRACTOR AND SHALL BE KEPT ON-SITE. ALL INSPECTION AND CERTIFICATION FORMS SHALL BE MADE AVAILABLE BY THE CONTRACTOR FOR INSPECTION BY MAINE DEP STAFF OR REPRESENTATIVES OF THE OWNER WHEN REQUESTED TO DO SO. COPIES OF ALL FORMS SHALL BE SUBMITTED TO THE OWNER ON A WEEKLY BASIS DURING THE LIFE OF THE PROJECT.

INSPECTIONS SHALL INCLUDE ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY AND AREAS USED FOR STORAGE OF MATERIALS EXPOSED TO PRECIPITATION. INSPECTORS MUST LOOK FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER CONVEYANCE SYSTEM OR AN INFILTRATION AREA. SEDIMENTATION AND EROSION CONTROL MEASURES IDENTIFIED IN THIS ESC PLAN SHALL BE INSPECTED TO ENSURE PROPER OPERATION. DISCHARGE LOCATIONS, WHERE ACCESSIBLE, SHALL BE INSPECTED TO ASCERTAIN THE EFFECTIVENESS OF EROSION CONTROL MEASURES IN PREVENTING SIGNIFICANT IMPACTS TO WATERS OF THE UNITED STATES (INCLUDING WETLANDS). LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT.

UPON COMPLETION OF CONSTRUCTION ACTIVITIES, ALL AREAS THAT HAVE BEEN TEMPORARILY OR PERMANENTLY STABILIZED WILL BE INSPECTED BY THE ENGINEER/ RPR TO ENSURE THAT FINAL STABILIZATION HAS BEEN SUCCESSFUL.

2.2 INSPECTION PROCEDURES DURING CONSTRUCTION

THE CONTRACTOR SHALL ABIDE BY ALL STANDARD CONDITIONS OF APPROVAL FOR SITE LAW PERMITS, SUPPLEMENTAL CONDITIONS OF APPROVAL SPECIFIC TO THE PROJECT, AND BY CHAPTER 500, SECTION 10 IN ADDITION TO THOSE SPECIFIED IN 38 M.R.S.A. §372 (12).

THE CONTRACTOR SHALL KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLES ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPS THAT NEED MAINTENANCE, BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPS, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

INSPECTIONS SHALL BE CONDUCTED BY THE CONTRACTOR AND OVERSEEN BY THE RPR. THE FOLLOWING ITEMS SHALL BE INSPECTED AS DESCRIBED BELOW:

1. HAY BALES: HAY BALE LINES SHALL BE INSPECTED TO INSURE THAT BALES ARE INTACT AND REMAIN SNUGLY BUTTED TO EACH OTHER AND FIRMLY EMBEDDED IN THE GROUND. DEPTH OF SEDIMENT BEHIND THE BALES SHALL BE NOTED AND REMOVED IF SEDIMENT EXCEEDS ONE-HALF THE HEIGHT OF THE BALE.

2. SILT FENCE: SILT FENCE SHALL BE INSPECTED TO INSURE THAT THE FENCE LINE IS INTACT WITH NO BREAKS OR TEARS, AND THAT THE BOTTOM OF THE FABRIC IS SECURELY BURIED IN THE GROUND. AREAS WHERE THE FENCE IS EXCESSIVELY SAGGING OR WHERE SUPPORT POSTS ARE BROKEN OR UPROOTED SHALL BE NOTED AND REPAIRED. DEPTH OF SEDIMENT BEHIND THE FENCE SHALL BE NOTED AND REMOVED WHEN SEDIMENT EXCEEDS ONE-THIRD THE HEIGHT OF THE FENCE.

3. CB INLET SEDIMENT FILTER: CB INLET SEDIMENT FILTERS SHALL BE INSPECTED TO ENSURE THAT THE FILTER BAG IS OPERATING EFFECTIVELY AND IS INTACT AND THAT NO TEARS ARE ALLOWING SEDIMENT TO WASH INTO THE CATCH BASIN SYSTEM. IF TEARS ARE NOTED, THE FILTER BAG SHALL BE REPAIRED OR REPLACED.

4. RIPRAP APRONS: RIPRAP INLET AND OUTLET APRONS SHALL BE INSPECTED FOR DAMAGE AND SCOUR. OBSTRUCTIONS TO FLOW AND ACCUMULATION OF SEDIMENT SHALL BE NOTED AND REMOVED. EROSION SHALL BE REPAIRED.

5. DISCHARGE POINTS: ALL DISCHARGE POINTS SHALL BE INSPECTED, WHERE PRACTICABLE, TO MONITOR THE EFFECTIVENESS OF EROSION CONTROL MEASURES IN PREVENTING IMPACTS TO RECEIVING WATERS AND WETLANDS. IF IMPACTS TO SURFACE WATERS OR WETLANDS ARE OBSERVED, THE SOURCE OF SUCH IMPACTS SHALL BE LOCATED IMMEDIATELY AND IMPROVEMENTS MADE TO EROSION AND SEDIMENTATION CONTROLS IN ORDER TO PREVENT THE REOCCURRENCE OF IMPACTS TO SURFACE WATERS. ANY IMPACTS OBSERVED AND CORRECTIVE MEASURES TAKEN SHALL BE NOTED IN THE INSPECTION LOG AND RECORDED IN THIS ESC PLAN.

6. VEHICLE ACCESS POINTS: LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENTATION TRACKING. ANY INCIDENCES OF SEDIMENTATION TRACKING IN THESE AREAS SHALL BE CORRECTED IMMEDIATELY AND NOTED IN THE INSPECTION LOG. CORRECTIVE MEASURES TAKEN TO PREVENT FUTURE OCCURRENCES OF OFF-SITE SEDIMENT TRACKING SHALL ALSO BE RECORDED IN THE INSPECTION LOG AND ESC PLAN. IN THE EVENT THAT STABILIZED CONSTRUCTION ENTRANCES ARE REQUIRED, THE RPR WILL COORDINATE LOCATION WITH THE CONTRACTOR IN ACCORDANCE WITH SECTION B-4 OF THE BMP MANUAL.

2.3 MAINTENANCE PROCEDURES DURING CONSTRUCTION

MAINTENANCE PROCEDURES SHALL BE IMPLEMENTED AS SOON AS POSSIBLE AFTER THE NEED FOR MAINTENANCE IS RECOGNIZED. EROSION CONTROLS SHALL BE MAINTAINED AS NOTED BELOW.

1. HAY BALES: ANY BROKEN, EXCESSIVELY TILTED OR UNDERMINED HAY BALES SHALL BE PROMPTLY REPLACED OR RE-INSTALLED. WHEN SEDIMENT BUILDS UP BEHIND BALES TO ONE-HALF THE HEIGHT OF THE BALE, THE SEDIMENT SHALL BE REMOVED OR A SECOND ROW OF BALES ADDED. WASHOUTS AT THE ENDS OF THE HAY BALES SHALL BE REPAIRED AND ADDITIONAL BALES ADDED.

2. SILT FENCE: SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE. CARE SHALL BE TAKEN TO AVOID DAMAGING THE FENCE DURING CLEAN-OUT. ANY AREAS OF DAMAGED OR TORN FABRIC, BROKEN POSTS OR UNDERMINED FENCE SHALL BE REPAIRED IMMEDIATELY.

3. RIPRAP APRONS: SEDIMENT AND OBSTRUCTIONS TO FLOW SHALL BE REMOVED WHEN NOTED. ANY AREAS OF EROSION OR DAMAGE SHALL BE REPAIRED IMMEDIATELY.

4. CB INLET SEDIMENT FILTER: CB INLET SEDIMENT FILTERS SHALL BE REPAIRED OR REPLACED IF DAMAGED TO THE POINT WHERE THEY ARE NO LONGER FUNCTIONING AS INTENDED OR ALLOWING SEDIMENT TO WASH INTO THE CATCH BASIN SYSTEM. SEDIMENT THAT HAS ACCUMULATED TO ONE-HALF THE VOLUME OF THE FILTER BAG SHALL BE REMOVED AND DEPOSITED INTO OTHER AREAS OF THE WORK.

5. DISCHARGE POINTS: ANY SEDIMENT OR DEBRIS ACCUMULATED AT THE DISCHARGE POINTS SHALL BE REMOVED AND DISPOSED OF APPROPRIATELY. AS STATED ABOVE, IF IMPACTS TO SURFACE WATERS OR WETLANDS ARE OBSERVED, THE SOURCE OF SUCH IMPACT SHALL BE LOCATED IMMEDIATELY AND IMPROVEMENTS MADE TO EROSION AND SEDIMENTATION CONTROLS IN ORDER TO PREVENT THE REOCCURRENCE OF IMPACTS TO SURFACE WATERS.

3.0 HOUSEKEEPING

POTENTIAL POLLUTION SOURCES THAT MAY REASONABLY BE EXPECTED TO AFFECT THE QUALITY OF STORMWATER AT THE CONSTRUCTION SITE INCLUDE CONSTRUCTION DEBRIS, SOIL STOCKPILES, AND FLUIDS ASSOCIATED WITH CONSTRUCTION EQUIPMENT (FUEL AND OILS).

PRECAUTIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR WHICH MINIMIZE THE RISK OF POTENTIAL POLLUTANTS IMPACTING STORMWATER. ALL CONSTRUCTION DEBRIS AND SOIL STOCKPILES SHALL BE STABILIZED AND PLACED AWAY FROM SURFACE WATER RESOURCES AND CATCH BASINS. NO STOCKPILED MATERIAL SHALL REMAIN ON SITE AFTER THE COMPLETION OF THE PROJECT. CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

IF NECESSARY, STAGING AND STORAGE AREAS SHALL BE ESTABLISHED PRIOR TO CONSTRUCTION. STAGING AREAS SHALL BE LOCATED IN UPLAND AREAS REMOVED FROM STORMWATER CONVEYANCE CHANNELS, CATCH BASINS AND SURFACE WATERS INCLUDING WETLANDS. IF NECESSARY, CONTRACTOR SUPPLIES AND EQUIPMENT SHALL ALSO BE KEPT IN THIS DESIGNATED AREA. IT IS INTENDED THAT ALL MACHINERY AND EQUIPMENT BE FUELED AND MAINTAINED AT THE DESIGNATED STAGING AREA. HOWEVER, HEAVY MACHINERY AND EQUIPMENT SHALL BE FUELED AND MAINTAINED ON SITE WHEN NECESSARY. FUEL AND OILS SHALL NOT BE STORED IN THE PROJECT AREA.

WASTE MATERIALS: ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A MANNER THAT SHALL PREVENT MATERIALS FROM ENTERING DRAINAGE SYSTEMS INCLUDING STORM DRAIN PIPES, NATURAL CONVEYANCE CHANNELS, WETLANDS OR OTHER OFF-SITE AREAS. MATERIAL SHALL BE REGULARLY COLLECTED AND DISPOSED OF OFF-SITE IN A MANNER CONSISTENT WITH FEDERAL, STATE AND LOCAL REGULATIONS.

HAZARDOUS WASTE: ANY AND ALL HAZARDOUS MATERIALS SHALL BE USED AND/OR DISPOSED OF IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN A MANNER THAT IS CONSISTENT WITH STATE AND FEDERAL REGULATIONS.

3.1 SPILL PREVENTION AND RESPONSE PROCEDURES

THE FOLLOWING MEASURES AND STRATEGIES ARE INTENDED TO PROVIDE AN OVERVIEW OF PROPER SPILL PREVENTION AND RESPONSE PROCEDURES AT THE FACILITY DURING CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE RISK OF ACCIDENTAL SPILLS/RELEASES TO THE GREATEST EXTENT POSSIBLE.

THE ACTIVITIES AND AREAS WHERE SPILLS ARE LIKELY TO OCCUR ARE FUELING AND OILING AREAS (I.E. STAGING AREAS AND CONSTRUCTION AREAS). TO REDUCE SPILL POTENTIAL, CAUTION IS RECOMMENDED WHEN FUELING VEHICLES AND EQUIPMENT IN ORDER TO PREVENT SPILLS AND OVERFILLING. THE “TOPPING-OFF” OF FUEL TANKS SHOULD BE AVOIDED AND MATERIAL TRANSFER PROCEDURES THAT REDUCE THE CHANCE OF SPILLS SHOULD BE IMPLEMENTED.

THE SPILL RESPONSE PLAN FOR THIS CONSTRUCTION SITE SHALL BE AS FOLLOWS:

1. THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE SPILL RESPONSE PLAN DURING CONSTRUCTION.

2. SPILL RESPONSE EQUIPMENT SHALL BE STORED IN THE STAGING AREA OR OTHER KNOWN ACCESSIBLE LOCATION. THE SPILL RESPONSE EQUIPMENT SHALL INCLUDE AT A MINIMUM:

a. SAFETY EQUIPMENT: EYE GUARDS, PROTECTIVE CLOTHING, FIRE EXTINGUISHER, AND RUBBER GLOVES.

b. CLEAN-UP EQUIPMENT: BROOMS, BARRIERS, ABSORBENT PADS, SPEEDY-DRI OR CAT LITTER, AND CONTAINERS DESIGNATED FOR STORING COLLECTED WASTE MATERIAL.

3. IN THE EVENT OF A SPILL OR RELEASE:

a. NOTIFY THE CITY OF AUGUSTA FIRE DEPARTMENT OF ANY EMERGENCY SPILL OR LEAK. THE PHONE NUMBER FOR EMERGENCY RESPONSE IS 911.

b. NOTIFY APPROPRIATE STATE AGENCIES:

I. OIL SPILLS MUST BE REPORTED TO THE MDEP AT 1-800-482-0777. THE MDEP MAY BE REACHED AT THIS NUMBER 24 HOURS/DAY.

II. HAZARDOUS MATERIALS SPILLS MUST BE REPORTED TO THE DEPARTMENT OF PUBLIC SAFETY AT 1-800-452-4664. THE DEPARTMENT OF PUBLIC SAFETY MAY BE REACHED AT THIS NUMBER 24 HOURS/DAY.

THE FOLLOWING PROCEDURES SHALL BE FOLLOWED BY ALL PERSONNEL IN THE EVENT OF A REPORTABLE QUANTITY SPILL OR LEAK. A REPORTABLE QUANTITY RELEASE OCCURS WHEN A QUANTITY OF HAZARDOUS MATERIAL IS SPILLED OR RELEASED WITHIN ONE 24-HOUR PERIOD OF TIME AND EXCEEDS THE REPORTABLE QUANTITY LEVEL ASSIGNED TO THAT SUBSTANCE.

1. THE FACILITY IS REQUIRED TO IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 FOR CHEMICAL OR OIL SPILLS THAT IMPACT SURFACE WATERS (INCLUDING WETLANDS) OR COMPROMISE WATER QUALITY STANDARDS.

2. IN THE EVENT OF A REPORTABLE QUANTITY DISCHARGE, THE FACILITY WILL ALSO SUBMIT TO THE EPA WITHIN 14 CALENDAR DAYS OF KNOWLEDGE OF THE RELEASE, A WRITTEN DESCRIPTION OF THE RELEASE (INCLUDING THE TYPE AND ESTIMATE OF THE AMOUNT OF MATERIAL RELEASED), THE DATE THAT SUCH RELEASE OCCURRED, THE CIRCUMSTANCES LEADING TO THE RELEASE, AND STEPS TO BE TAKEN TO PROHIBIT FUTURE SIMILAR SPILLS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL APPROPRIATE CONSTRUCTION PERSONNEL RECEIVE INSTRUCTION PERTAINING TO PROPER SPILL RESPONSE AND NOTIFICATION PROCEDURES.

3.2 GROUNDWATER PROTECTION

LIQUID PETROLEUM PRODUCTS AND OTHER MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER SHALL NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN “INFILTRATION AREA” IS ANY AREA OF THE SITE THAT ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. THE APPROPRIATE POLLUTANT REMOVAL BEST MANAGEMENT PRACTICES (BMPS) SHALL BE CONSULTED PRIOR TO ON-SITE STORAGE OF THESE MATERIALS IN ORDER TO PREVENT IMPACTS TO GROUNDWATER QUALITY.

3.3 FUGITIVE SEDIMENT AND DUST

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED WEEKLY FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. IF OFF-SITE SEDIMENT TRACKING IS OBSERVED, THE SEDIMENT SHALL BE REMOVED AND MEASURES TAKEN TO PREVENT FUTURE OCCURRENCES OF OFF-SITE SEDIMENT TRACKING, SUCH AS A STABILIZED CONSTRUCTION ENTRANCE. IN THE EVENT THAT A STABILIZED CONSTRUCTION EXIT IS REQUIRED DURING THE PROGRESS OF THE WORK, THE RESIDENT PROJECT REPRESENTATIVE WILL COORDINATE LOCATION AND DESIGN WITH THE CONTRACTOR IN ACCORDANCE WITH SECTION B-4 OF THE BMP MANUAL.

OIL SHALL NOT BE USED FOR DUST CONTROL; DRAWING WATER FROM A STREAM WITHOUT FIRST OBTAINING A PERMIT SHALL NOT BE ALLOWED.

3.4 DEBRIS AND OTHER MATERIALS

ANY DEBRIS BLOWING OR FLOWING OFF THE SITE SHALL BE IMMEDIATELY COLLECTED. ANY UNSAFE STORAGE PRACTICES NOTED DURING INSPECTION SHALL BE IMMEDIATELY REMEDIED. CONTRACTORS SHALL UTILIZE GOOD HOUSEKEEPING PRACTICES TO MINIMIZE THE POSSIBILITY OF EROSION AND SEDIMENTATION AND SPILLS AND LEAKS OF POTENTIAL POLLUTANTS. HAZARDOUS MATERIALS SHALL BE HANDLED WITH THE UTMOST CARE IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS AND THE RECOMMENDATIONS OF THE MANUFACTURER.

GOOD HOUSEKEEPING PRACTICES SHALL ALSO INCLUDE THE MAINTENANCE OF CLEAN SURFACES BY USING BROOMS AND/OR SHOVELS, PICKING UP GARBAGE AND WASTE MATERIAL REGULARLY, CHECKING MAINTENANCE EQUIPMENT FOR PROPER OPERATION, CONDUCTING ROUTINE INSPECTIONS TO CHECK FOR LEAKS AND CONDITIONS THAT COULD LEAD TO DISCHARGE OF CHEMICALS OR CONTACT WITH STORMWATER BY WASTE MATERIALS, ENSURING SPILL CLEAN-UP PROCEDURES ARE UNDERSTOOD AND IMPLEMENTED BY CONSTRUCTION PERSONNEL, AND MAINTAINING APPROPRIATE MATERIAL STORAGE AND INVENTORY PRACTICES.

3.5 NON-STORMWATER DISCHARGES

THE FOLLOWING NON-STORMWATER DISCHARGES MAY OCCUR ON THE SITE DURING THE CONSTRUCTION PERIOD:

1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES

2. WATERS (WITHOUT SOAP) USED TO WASH VEHICLES OR CONTROL DUST IN ACCORDANCE WITH EFFORTS TO MINIMIZE OFF-SITE SEDIMENT TRACKING.

ALL ALLOWED NON-STORMWATER DISCHARGES SHALL BE DIRECTED TO A STORM DRAINAGE SYSTEM OR A NATURAL CONVEYANCE CHANNEL WITHOUT IMPACTING DISTURBED AREAS. ANY ILLICIT CONNECTIONS TO THE STORMWATER DRAINAGE SYSTEM WILL BE ELIMINATED AND ANY ASSOCIATED NON-STORMWATER DISCHARGES WILL BE REPORTED IN ORDER TO ACHIEVE COMPLIANCE WITH ALL CURRENT FEDERAL, STATE AND LOCAL REQUIREMENTS.

4.0 REVISIONS

THE EROSION AND SEDIMENTATION CONTROL PLAN, INSPECTION AND MAINTENANCE PLAN, AND HOUSEKEEPING PLAN, INCLUDING PROJECT DRAWINGS, WILL BE AMENDED WHENEVER THERE IS A CHANGE IN DESIGN OR CONSTRUCTION AT THE CONSTRUCTION SITE THAT HAS OR COULD HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THIS PLAN.

THESE PLANS WILL ALSO BE AMENDED IF DURING INSPECTIONS OR INVESTIGATIONS BY THE RPR, REGULATING OFFICIALS, OR DESIGNATED FACILITY INSPECTOR, IT IS DETERMINED THAT THE PLANS ARE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS IN STORMWATER DISCHARGES FROM THE FACILITY SITE. THE PLAN WILL BE MODIFIED AS NECESSARY TO INCLUDE ADDITIONAL BMPS DESIGNED TO CORRECT IDENTIFIED PROBLEMS. REVISIONS TO THESE PLANS WILL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.

IF EXISTING BMPS REQUIRE MODIFICATION OR IF ADDITIONAL BMPS ARE NECESSARY FOR ANY REASON, IMPLEMENTATION WILL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS OF INSPECTION AND PRIOR TO THE NEXT STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION WILL BE DOCUMENTED IN THE PLAN AND ALTERNATIVE BMPS WILL BE IMPLEMENTED AS SOON AS POSSIBLE.

5.0 RECORD KEEPING

WITHIN 24 HOURS OF INSPECTIONS, A REPORT (LOG) WILL BE PREPARED SUMMARIZING THE SCOPE OF THE INSPECTION AND ANY CORRECTIVE ACTIONS TAKEN, THE NAMES AND QUALIFICATIONS OF THE PERSON(S) MAKING THE INSPECTIONS, AND THE DATE(S) AND TIME OF INSPECTION. THE REPORT WILL INCLUDE A DESCRIPTION OF MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS IF EXPOSED TO PRECIPITATION, AND VEHICULAR ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS WILL INCLUDE, IF NECESSARY, BMPS THAT NEED MAINTENANCE, BMPS THAT ARE NOT PERFORMING AS INTENDED OR ARE INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED.

THE INSPECTION REPORTS WILL BE SIGNED BY THE RESPONSIBLE PERSON DESIGNATED BY THE OWNER. THESE REPORTS WILL BE FILED WITH THE PLAN AND KEPT ON-SITE FOR A MINIMUM OF THREE YEARS AFTER THE DATE OF THE NOTICE OF TERMINATION (NOT). THE PERMITTEE WILL SUBMIT A NOT TO THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION WITHIN 20 DAYS OF ACHIEVING PERMANENT STABILIZATION AT THE SITE OR AFTER COVERAGE UNDER AN ALTERNATIVE PERMIT HAS BEEN OBTAINED.

ORIGINAL SHEET - ARCH D

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Notes

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_C-601_&_C-602_ersn_cntrl_dtls.dwg			16.06.06
Dwn.	Chkd.	Dsgn.	YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

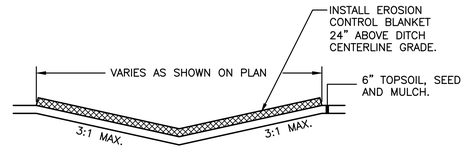
Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

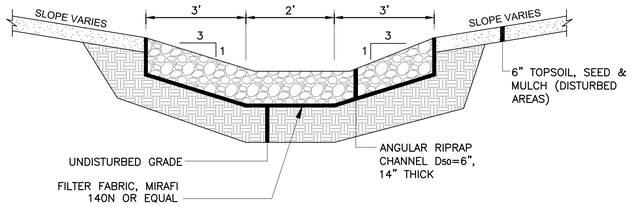
Augusta, Maine

Title
EROSION CONTROL NOTES

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C601	30 of 36	0

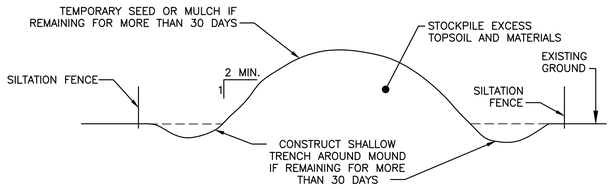


4 TYPICAL DITCH SECTION
N.T.S



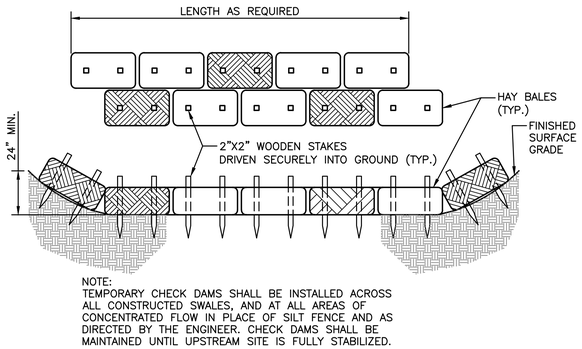
NOTES:

1. ALL MATERIALS SHALL CONFORM TO THE CURRENT EDITION OF THE MeDOT STANDARD SPECIFICATIONS.
2. SEE PLAN(S) FOR LOCATION(S).



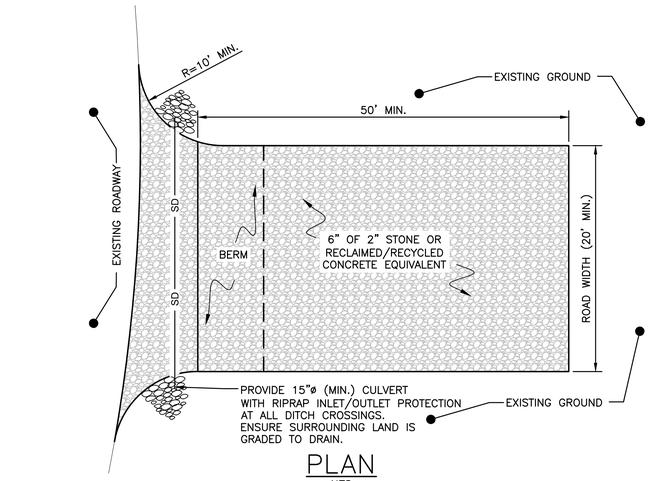
3 MATERIAL STOCKPILE DETAIL
N.T.S.

7 RIPRAP CHANNEL
NOT TO SCALE

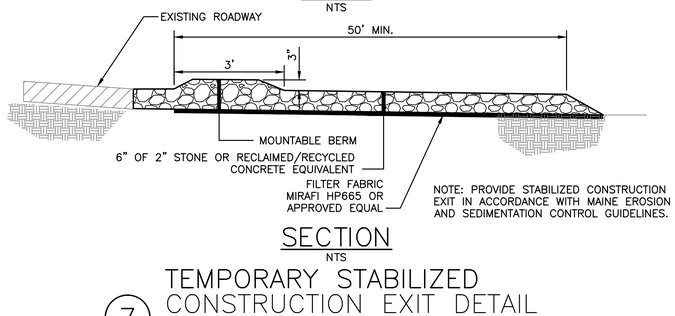


NOTE:
TEMPORARY CHECK DAMS SHALL BE INSTALLED ACROSS ALL CONSTRUCTED SWALES, AND AT ALL AREAS OF CONCENTRATED FLOW IN PLACE OF SILT FENCE AND AS DIRECTED BY THE ENGINEER. CHECK DAMS SHALL BE MAINTAINED UNTIL UPSTREAM SITE IS FULLY STABILIZED.

6 HAYBALE CHECK DAM DETAIL
N.T.S.

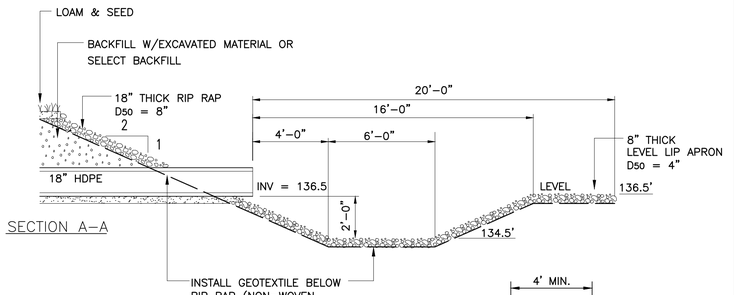


PLAN
NTS

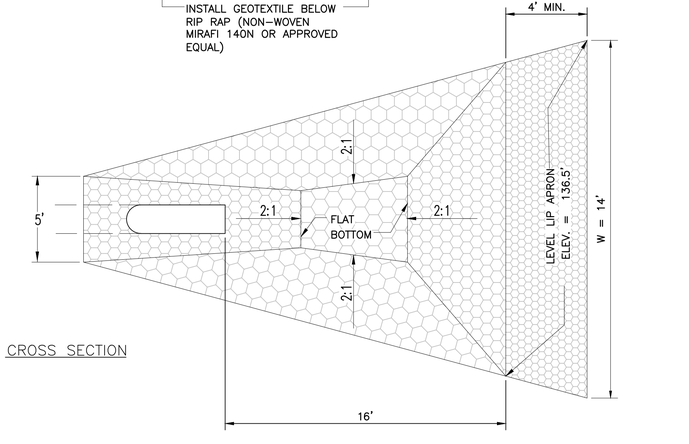


SECTION
NTS

TEMPORARY STABILIZED CONSTRUCTION EXIT DETAIL
7
NOT TO SCALE

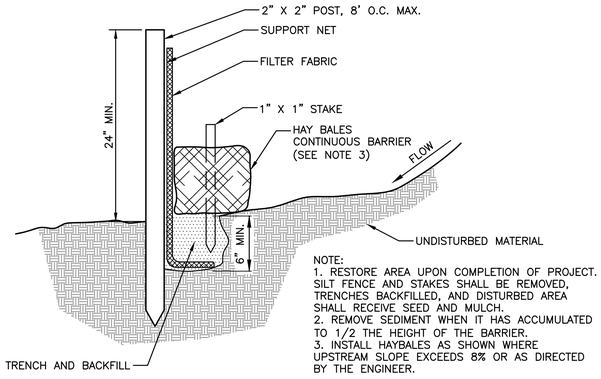


SECTION A-A



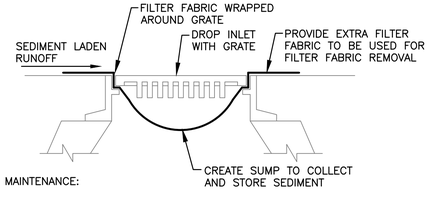
CROSS SECTION

2 PLUNGE POOL APRON
N.T.S.



NOTE:
1. RESTORE AREA UPON COMPLETION OF PROJECT. SILT FENCE AND STAKES SHALL BE REMOVED, TRENCHES BACKFILLED, AND DISTURBED AREA SHALL RECEIVE SEED AND MULCH.
2. REMOVE SEDIMENT WHEN IT HAS ACCUMULATED TO 1/2 THE HEIGHT OF THE BARRIER.
3. INSTALL HAYBALES AS SHOWN WHERE UPSTREAM SLOPE EXCEEDS 8% OR AS DIRECTED BY THE ENGINEER.

2 SILT FENCE BARRIER DETAIL
N.T.S.



MAINTENANCE:

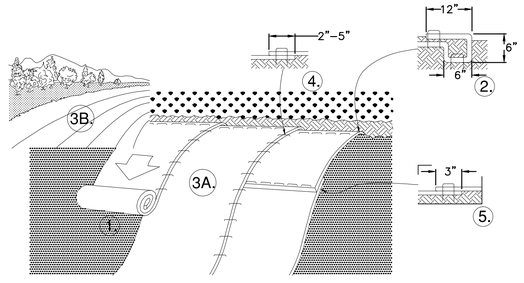
1. CONTRACTOR SHALL CLEAN AFTER EVERY STORM. IF THE BARRIER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PASSES FILTERED WATER, THE SEDIMENT SHALL BE REMOVED AND THE BARRIER SHALL BE REPLACED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

2. THE FABRIC SHALL BE REMOVED ONLY WHEN THE DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED.

3. INSTALL INLET PROTECTION AT ALL EXISTING CB'S TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION, AS WELL AS ALL NEW CB'S UNTIL DRAINAGE AREA HAS BEEN STABILIZED.

4. ONCE SITE IS FULLY STABILIZED, INLET PROTECTION DEVICES SHALL BE REMOVED, AND THE CONTRACTOR SHALL VACUUM CLEAN ALL CATCH BASIN SUMPS.

1 CATCH BASIN INLET PROTECTION DETAIL
N.T.S.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET SLOPE INSTALLATION DETAIL
5
N.T.S.

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Notes

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_C-601_& _C-602_ensn_cntrl_dtls.dwg | Dwn. | Chkd. | Dsgn. | 16.06.06 YY.MM.DD

STATE OF MAINE
DAVID P NADEAU
No. 10683
LICENSED PROFESSIONAL ENGINEER
9/23/16

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

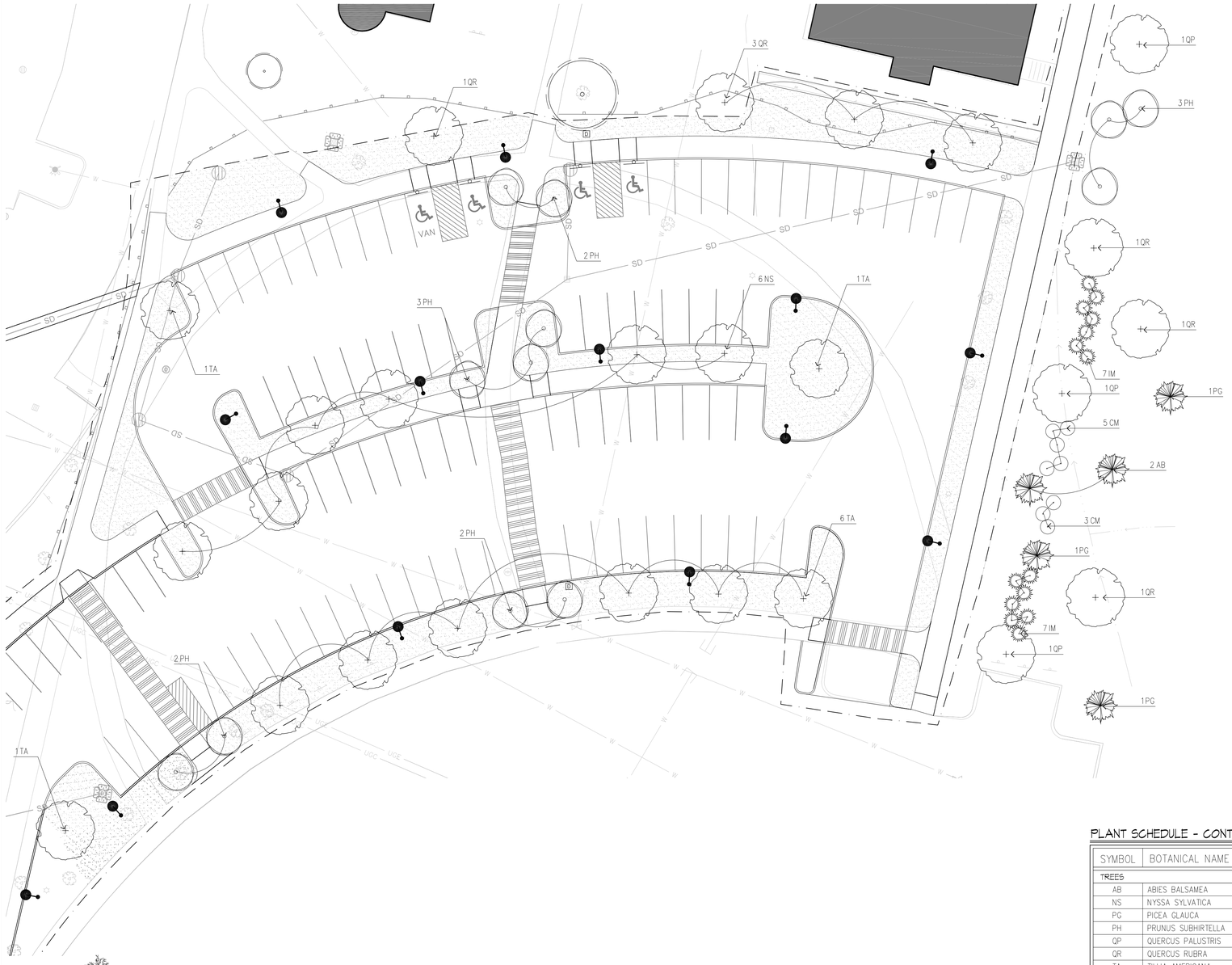
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
EROSION CONTROL DETAILS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-C602	31 of 36	0

ORIGINAL SHEET - ARCH D



0 20' 40'

PLANTING LEGEND

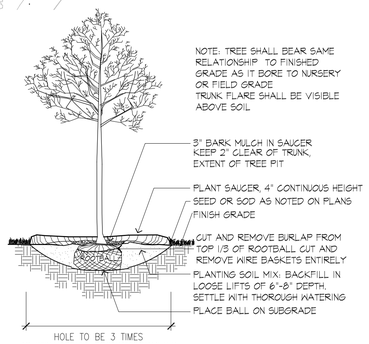
- EXISTING TREE
- CANOPY TREE
- UNDERSTORY TREE
- EVERGREEN TREE
- DECIDUOUS SHRUBS
- EVERGREEN SHRUBS
- LAWN SEED OR SOD

PLANTING NOTES

1. EXISTING TOPOGRAPHIC CONDITIONS AND PLANIMETRICS ARE BASED ON A FIELD SURVEY CONDUCTED BY STANTEC CONSULTING SERVICES INC. IN MARCH - MAY 2018. ADDITIONAL DATA, INCLUDING UNDERGROUND UTILITIES AND STRUCTURES WERE TAKEN FROM AS-BUILT DRAWINGS PROVIDED BY THE OWNER AND HAVE NOT BEEN FIELD VERIFIED BY STANTEC.
2. THE CONTRACTOR SHALL CONTACT DIGSAFE AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
3. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF PLANT MATERIAL.
4. LANDSCAPE ARCHITECT TO FLAG ALL TREES TO BE TRANSPLANTED PRIOR TO CONSTRUCTION START.
5. CONTRACTOR SHALL VERIFY ALL TREE REMOVALS AND/OR TRANSPLANTS WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION START.
6. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, AND PLANTING BEDS.
7. MAXIMUM SLOPE WITHIN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED.
8. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THIS DRAWING.
9. ALL MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
10. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
11. ALL PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
12. MULCH FOR PLANTED AREAS TO BE AGED PINE BARK; PARTIALLY DECOMPOSED, DARK BROWN IN COLOR AND FREE OF WOOD CHIPS. THICKER THAN 1/4 INCH.
13. PLANTING SOIL MIX: LOAM THOROUGHLY INCORPORATED WITH ROTTED MANURE PROPORTIONED 5 C.Y. TO 1 C.Y. OR EQUIVALENT. FERTILIZER ADDED PER RECOMMENDED RATES OF SOILS ANALYSIS.
14. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
15. ALL PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT, AT THE NURSERY, AND AT THE SITE.
16. ALL AREAS OF THE SITE WHICH HAVE BEEN DISTURBED AND NOT OTHERWISE DEVELOPED SHALL BE LOAMED AND SEEDED WITH A MINIMUM DEPTH OF 6" DEPTH TOPSOIL.
17. PLANT SIZE AND QUANTITY SHALL NOT CHANGE WITHOUT APPROVAL OF OWNER'S REPRESENTATIVE.

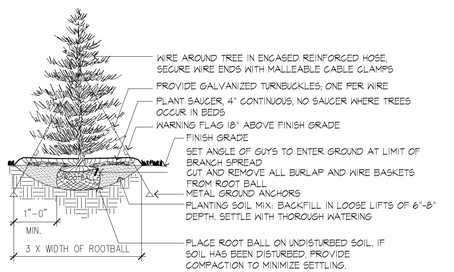
PLANT SCHEDULE - CONTRACT 'A'

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COMMENT
TREES					
AB	ABIES BALSAMEA	BALSAM FIR	2	6 – 7' HT.	
NS	NYSSA SYLVATICA	BLACK GUM	6	2 –2 1/2" CAL.	
PG	PICEA GLAUCA	WHITE SPRUCE	3	6 – 7' HT.	
PH	PRUNUS SUBHIRTELLA	HIGAN CHERRY	12	1 3/4 –2" CAL.	
QP	QUERCUS PALUSTRIS	PIN OAK	3	2 –2 1/2" CAL.	
QR	QUERCUS RUBRA	RED OAK	7	2 –2 1/2" CAL.	
TA	TILLIA AMERICANA	LINDEN	9	2 –2 1/2" CAL.	
SHRUBS					
CM	CORYLUS MAXIMA 'PURPUREA'	PURPLE FILBERT	8	#7 POT	MULTI-STEM
IM	ILEX X MESERVEAE 'CHINA GIRL'	MESERVEAE HOLLY	14	18–24"	NATURAL FORM; DO NOT SHEER



1 DECIDUOUS TREE PLANTING

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

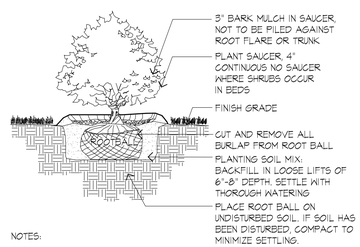


NOTE:

1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE
2. INSTALL THREE GUYS PER TREE, EQUALLY SPACED AROUND BALL. ATTACH GUYS AT 2/3 HEIGHT OF TREE, USE DOUBLE STRAND GALVANIZED STEEL WIRE

2 EVERGREEN TREE PLANTING

SCALE: 1/8"=1'-0"

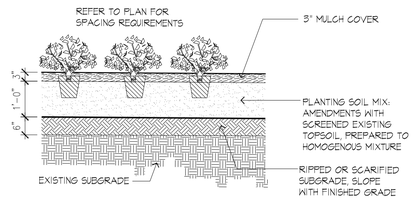


NOTES:

1. SHRUB SHALL BEAR SAME RELATIONSHIP TO FINISHED GRADE AS IT BORE TO NURSERY OR FIELD GRADE
2. WHERE SHRUBS OCCUR IN GROUPINGS IN PLANT BEDS, PROVIDE 2' DEEP CONTINUOUS LOAM BED.

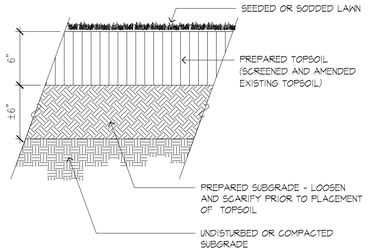
3 DECIDUOUS SHRUB PLANTING

SCALE: 3/8"=1'-0"



4 GROUNDCOVER AND PERENNIAL PLANTING

SCALE: 1/2"=1'-0"



5 LOAM AND SEED/SOD

SCALE: 1 1/2"=1'-0"

ORIGINAL SHEET - ARCH D

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Notes

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File Name:

	Dwn.	Chkd.	Dsgn.	YY.MM.DD

LICENSED LANDSCAPE ARCHITECT
JOSEPH T. CELLER
No. 2682
STATE OF MAINE

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
PLANTING PLAN - PARKING LOT 7E and 7F

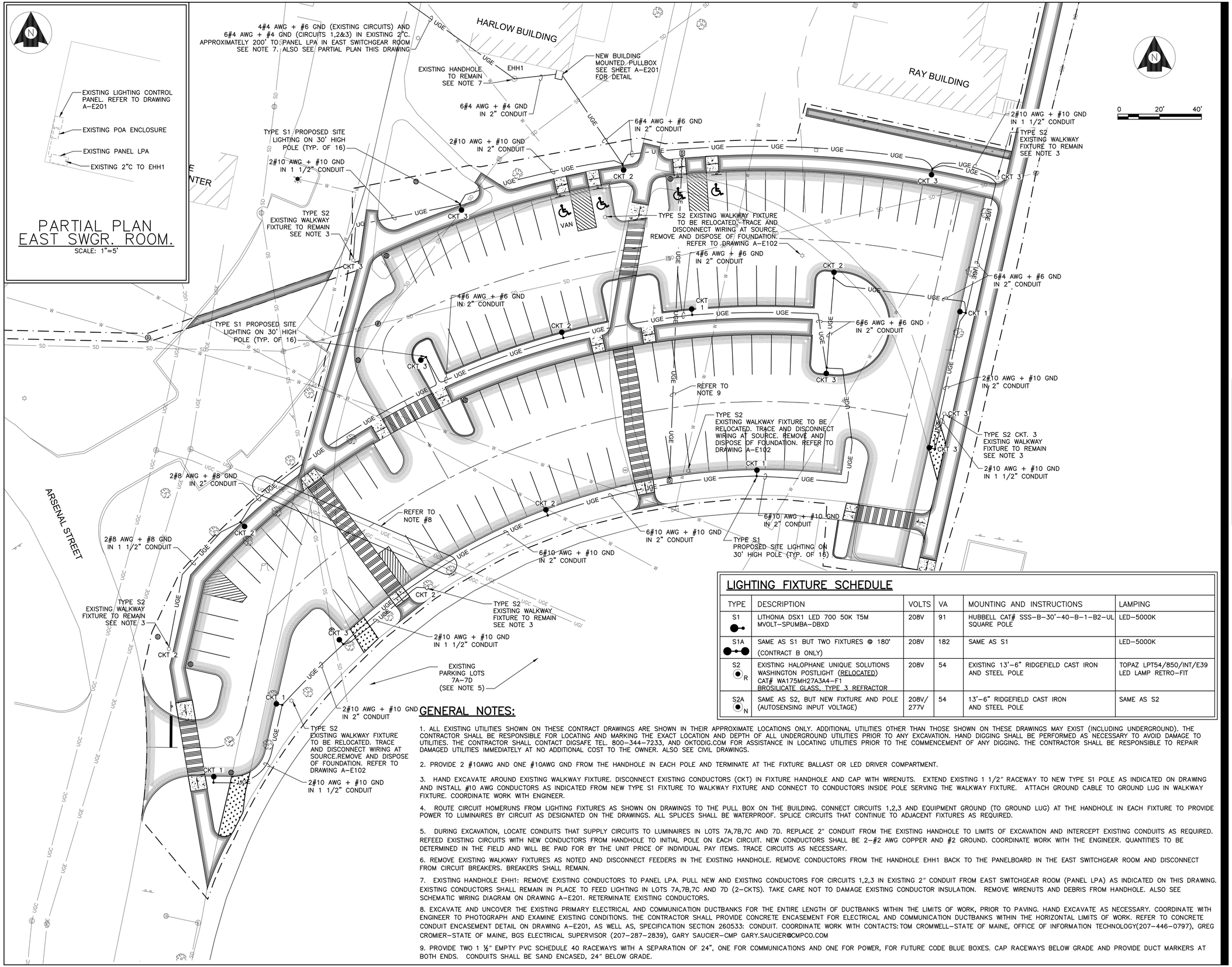
Project No.
195210829

Scale

Drawing No.
A-L101

Sheet

Revision



LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	VA	MOUNTING AND INSTRUCTIONS	LAMPING
S1	LITHONIA DSX1 LED 700 50K T5M MVOLT–SPUMBA–DBXD	208V	91	HUBBELL CAT# SSS–B–30'–40–B–1–B2–UL SQUARE POLE	LED–5000K
S1A	SAME AS S1 BUT TWO FIXTURES @ 180° (CONTRACT B ONLY)	208V	182	SAME AS S1	LED–5000K
S2 R	EXISTING HALOPHANE UNIQUE SOLUTIONS WASHINGTON POSTLIGHT (RELOCATED) CAT# WA175MH27A3A4–F1 BROSILICATE GLASS, TYPE 3 REFRACTOR	208V	54	EXISTING 13'–6" RIDGEFIELD CAST IRON AND STEEL POLE	TOPAZ LPT54/850/INT/E39 LED LAMP RETRO–FIT
S2A N	SAME AS S2, BUT NEW FIXTURE AND POLE (AUTOSENSING INPUT VOLTAGE)	208V/ 277V	54	13'–6" RIDGEFIELD CAST IRON AND STEEL POLE	SAME AS S2

GENERAL NOTES:

1. ALL EXISTING UTILITIES SHOWN ON THESE CONTRACT DRAWINGS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THESE DRAWINGS MAY EXIST (INCLUDING UNDERGROUND). THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. HAND DIGGING SHALL BE PERFORMED AS NECESSARY TO AVOID DAMAGE TO UTILITIES. THE CONTRACTOR SHALL CONTACT DIGSAFE TEL. 800–344–7233, AND OKTODIG.COM FOR ASSISTANCE IN LOCATING UTILITIES PRIOR TO THE COMMENCEMENT OF ANY DIGGING. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. ALSO SEE CIVIL DRAWINGS.

2. PROVIDE 2 #10AWG AND ONE #10AWG GND FROM THE HANDHOLE IN EACH POLE AND TERMINATE AT THE FIXTURE BALLAST OR LED DRIVER COMPARTMENT.

3. HAND EXCAVATE AROUND EXISTING WALKWAY FIXTURE. DISCONNECT EXISTING CONDUCTORS (CKT) IN FIXTURE HANDHOLE AND CAP WITH WIRENUTS. EXTEND EXISTING 1 1/2" RACEWAY TO NEW TYPE S1 POLE AS INDICATED ON DRAWING AND INSTALL #10 AWG CONDUCTORS AS INDICATED FROM NEW TYPE S1 FIXTURE TO WALKWAY FIXTURE AND CONNECT TO CONDUCTORS INSIDE POLE SERVING THE WALKWAY FIXTURE. ATTACH GROUND CABLE TO GROUND LUG IN WALKWAY FIXTURE. COORDINATE WORK WITH ENGINEER.

4. ROUTE CIRCUIT HOMERUNS FROM LIGHTING FIXTURES AS SHOWN ON DRAWINGS TO THE PULL BOX ON THE BUILDING. CONNECT CIRCUITS 1,2,3 AND EQUIPMENT GROUND (TO GROUND LUG) AT THE HANDHOLE IN EACH FIXTURE TO PROVIDE POWER TO LUMINAIRES BY CIRCUIT AS DESIGNATED ON THE DRAWINGS. ALL SPLICES SHALL BE WATERPROOF. SPLICE CIRCUITS THAT CONTINUE TO ADJACENT FIXTURES AS REQUIRED.

5. DURING EXCAVATION, LOCATE CONDUITS THAT SUPPLY CIRCUITS TO LUMINAIRES IN LOTS 7A,7B,7C AND 7D. REPLACE 2" CONDUIT FROM THE EXISTING HANDHOLE TO LIMITS OF EXCAVATION AND INTERCEPT EXISTING CONDUITS AS REQUIRED. REFEED EXISTING CIRCUITS WITH NEW CONDUCTORS FROM HANDHOLE TO INITIAL POLE ON EACH CIRCUIT. NEW CONDUCTORS SHALL BE 2–#2 AWG COPPER AND #2 GROUND. COORDINATE WORK WITH THE ENGINEER. QUANTITIES TO BE DETERMINED IN THE FIELD AND WILL BE PAID FOR BY THE UNIT PRICE OF INDIVIDUAL PAY ITEMS. TRACE CIRCUITS AS NECESSARY.

6. REMOVE EXISTING WALKWAY FIXTURES AS NOTED AND DISCONNECT FEEDERS IN THE EXISTING HANDHOLE. REMOVE CONDUCTORS FROM THE HANDHOLE EHH1 BACK TO THE PANELBOARD IN THE EAST SWITCHGEAR ROOM AND DISCONNECT FROM CIRCUIT BREAKERS. BREAKERS SHALL REMAIN.

7. EXISTING HANDHOLE EHH1: REMOVE EXISTING CONDUCTORS TO PANEL LPA. PULL NEW AND EXISTING CONDUCTORS FOR CIRCUITS 1,2,3 IN EXISTING 2" CONDUIT FROM EAST SWITCHGEAR ROOM (PANEL LPA) AS INDICATED ON THIS DRAWING. EXISTING CONDUCTORS SHALL REMAIN IN PLACE TO FEED LIGHTING IN LOTS 7A,7B,7C AND 7D (2–CKTS). TAKE CARE NOT TO DAMAGE EXISTING CONDUCTOR INSULATION. REMOVE WIRENUTS AND DEBRIS FROM HANDHOLE. ALSO SEE SCHEMATIC WIRING DIAGRAM ON DRAWING A–E201. RETERMINATE EXISTING CONDUCTORS.

8. EXCAVATE AND UNCOVER THE EXISTING PRIMARY ELECTRICAL AND COMMUNICATION DUCTBANKS FOR THE ENTIRE LENGTH OF DUCTBANKS WITHIN THE LIMITS OF WORK, PRIOR TO PAVING. HAND EXCAVATE AS NECESSARY. COORDINATE WITH ENGINEER TO PHOTOGRAPH AND EXAMINE EXISTING CONDITIONS. THE CONTRACTOR SHALL PROVIDE CONCRETE ENCASEMENT FOR ELECTRICAL AND COMMUNICATION DUCTBANKS WITHIN THE HORIZONTAL LIMITS OF WORK. REFER TO CONCRETE CONDUIT ENCASEMENT DETAIL ON DRAWING A–E201, AS WELL AS, SPECIFICATION SECTION 260533: CONDUIT. COORDINATE WORK WITH CONTACTS: TOM CROMWELL–STATE OF MAINE, OFFICE OF INFORMATION TECHNOLOGY(207–446–0797), GREG CROMIER–STATE OF MAINE, BGS ELECTRICAL SUPERVISOR (207–287–2839), GARY SAUCIER–CMP GARY.SAUCIER@CMPCO.COM

9. PROVIDE TWO 1 ½" EMPTY PVC SCHEDULE 40 RACEWAYS WITH A SEPARATION OF 24", ONE FOR COMMUNICATIONS AND ONE FOR POWER, FOR FUTURE CODE BLUE BOXES. CAP RACEWAYS BELOW GRADE AND PROVIDE DUCT MARKERS AT BOTH ENDS. CONDUITS SHALL BE SAND ENCASED, 24" BELOW GRADE.

ORIGINAL SHEET - ARCH D

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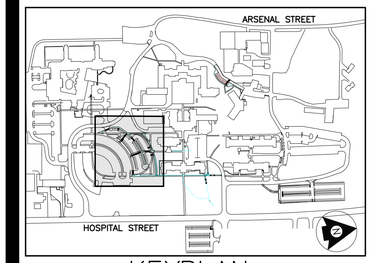
Notes

SYMBOLS AND ABBREVIATIONS

D	DUCT BANK MARKER
UGE	UNDERGROUND ELECTRIC RACEWAY
UGE	EXISTING UNDERGROUND POWER RACEWAY
UGC	EXISTING UNDERGROUND COMMUNICATION RACEWAY
AWG	AMERICAN WIRE GAUGE



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12

Issued — By — Appd. — YY.MM.DD

File Name: A_E-101_lighting_layout_plh.dwg — Dwn. — NAD Chkd. — MLC Dsgn. — 16.05.12 YY.MM.DD

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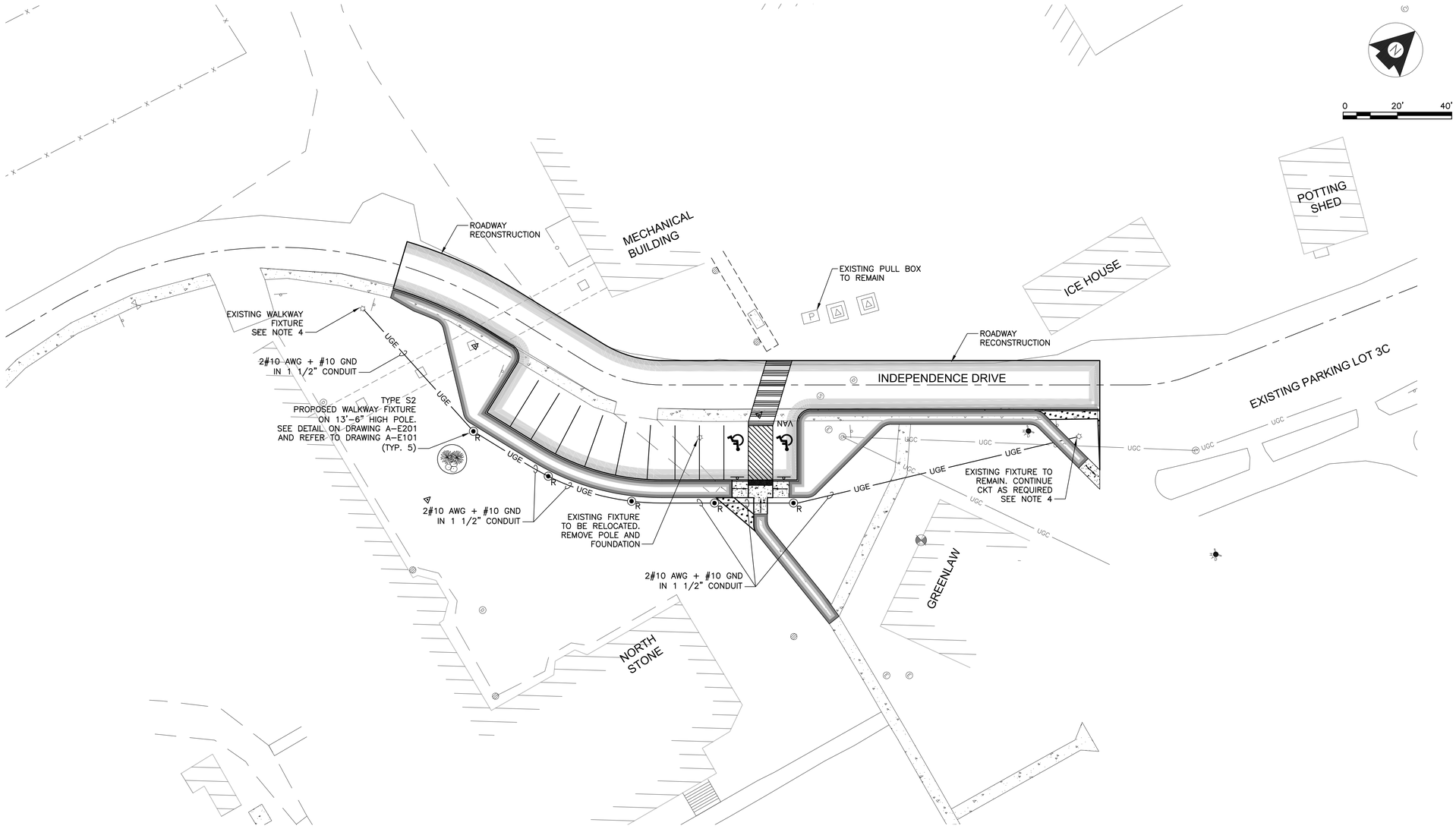
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
LIGHTING LAYOUT PLAN
LOT NO. 7E AND 7F

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-E101	33 of 36	0



GENERAL NOTES:

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2. PROVIDE 2 #10 AWG AND ONE #10 AWG GND FROM THE HANDHOLE IN EACH POLE AND TERMINATE AT THE FIXTURE BALLAST OR LED DRIVER COMPARTMENT.

3. SEE SHEET A-E201 FOR FIXTURE S2 OR S2A DETAIL.

4. HAND EXCAVATE AROUND EXISTING WALKWAY FIXTURE. DISCONNECT EXISTING CONDUCTORS (CKT) IN FIXTURE HANDHOLE AND CAP ANY LIVE FEEDS WITH WIRENUTS. EXTEND EXISTING 1 1/2" RACEWAY FROM EXISTING FIXTURE TO TYPE S2 FIXTURE AS INDICATED ON DRAWING. CONNECT CONDUCTORS INSIDE POLE SERVING THE EXISTING WALKWAY FIXTURE. ATTACH GROUND CABLE TO GROUND LUG IN EXISTING WALKWAY FIXTURE. COORDINATE WORK WITH ENGINEER.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	VA	MOUNTING AND INSTRUCTIONS	LAMPING
S1	LITHONIA DSX1 LED 700 50K T5M MVOLT-SPUMBA-DBXD	208V	91	HUBBELL CAT# SSS-B-30'-40-B-1-B2-UL SQUARE POLE	LED-5000K
S1A	SAME AS S1 BUT TWO FIXTURES @ 180° (CONTRACT B ONLY)	208V	182	SAME AS S1, EXCEPT 180° BRACKET	LED-5000K
S2 R	EXISTING HALOPHANE UNIQUE SOLUTIONS WASHINGTON POSTLIGHT (RELOCATED) CAT# WA175MH27A3A4-F1 BROSILICATE GLASS, TYPE 3 REFRACTOR	208V	54	EXISTING 13'-6" RIDGEFIELD CAST IRON AND STEEL POLE	TOPAZ LPT54/850/INT/E39 LED LAMP RETRO-FIT
S2A N	SAME AS S2, BUT NEW FIXTURE AND LAMP (AUOTSENSING INPUT VOLTAGE)	208V/ 277V	54	13'-6" RIDGEFIELD CAST IRON AND STEEL POLE	SAME AS S2

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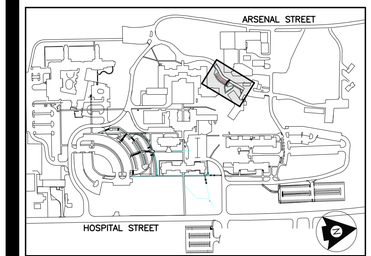
Notes

SYMBOLS AND ABBREVIATIONS

D	DUCT BANK MARKER
UGE	UNDERGROUND ELECTRIC RACEWAY
UGE	EXISTING UNDERGROUND POWER RACEWAY
UGC	EXISTING UNDERGROUND COMMUNICATION RACEWAY
AWG	AMERICAN WIRE GAUGE



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_E-102_lighting_layout_pln.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
		NAD	MLC	16.05.12

STATE OF MAINE
MICHAEL L. CLAIRDOLE
No. 7824
LICENSED PROFESSIONAL ENGINEER

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

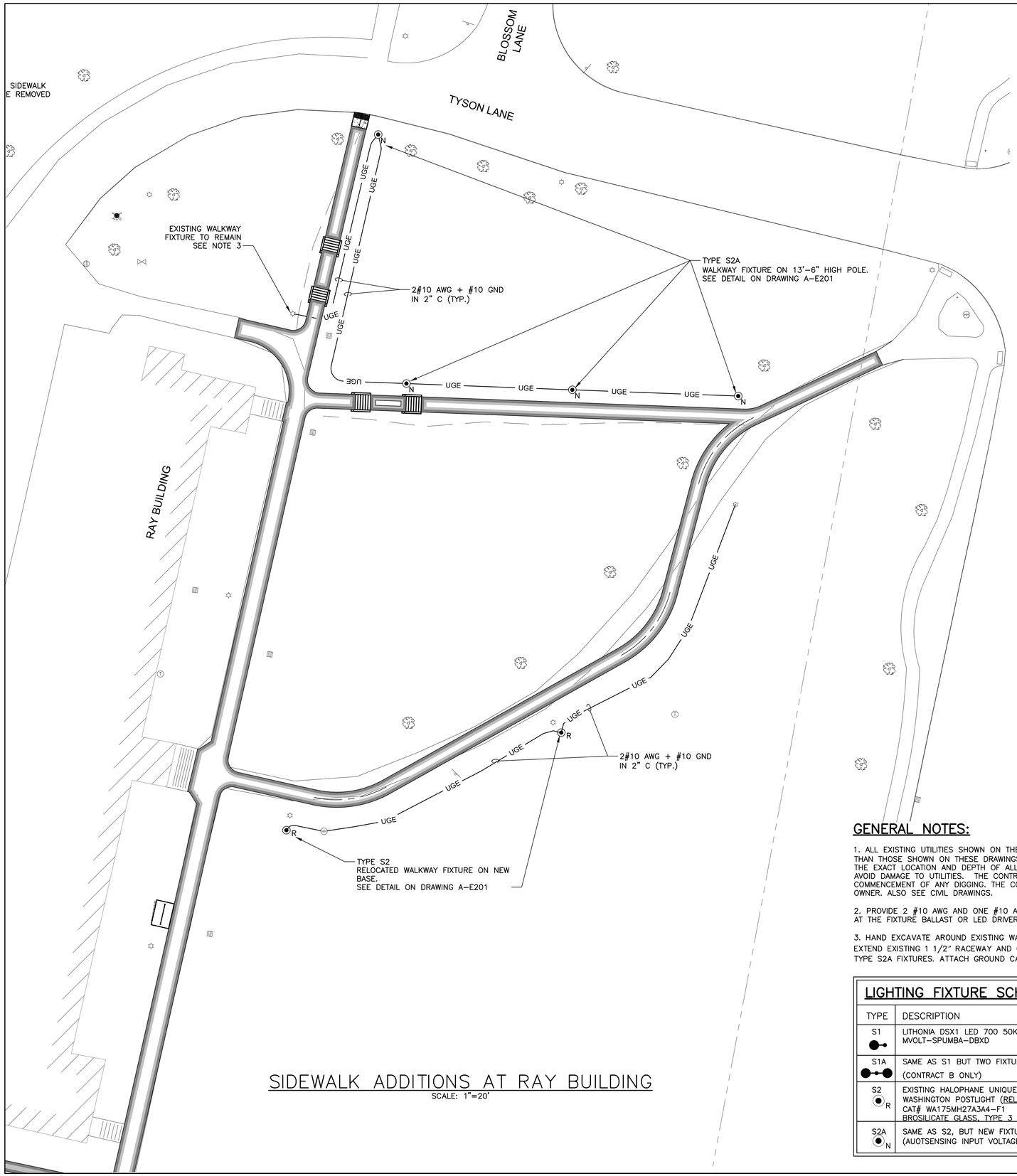
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title

LIGHTING LAYOUT PLAN
LOT NO. 3D

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-E102	34 of 36	0

ORIGINAL SHEET - ARCH D



SIDEWALK ADDITIONS AT RAY BUILDING

SCALE: 1"=20'

0 20' 40'

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2. PROVIDE 2 #10 AWG AND ONE #10 AWG GND FROM THE HANDHOLE IN EACH POLE AND TERMINATE AT THE FIXTURE BALLAST OR LED DRIVER COMPARTMENT.

3. HAND EXCAVATE AROUND EXISTING WALKWAY FIXTURE. DISCONNECT EXISTING CONDUCTORS (CKT) IN FIXTURE HANDHOLE AND CAP WITH WIRENUTS. EXTEND EXISTING 1 1/2" RACEWAY AND CONDUCTORS TO NEW TYPE S2A OR EXISTING S2 FIXTURE. #10 AWG CONDUCTORS AS INDICATED BETWEEN NEW TYPE S2A FIXTURES. ATTACH GROUND CABLE TO GROUND LUG IN EXISTING WALKWAY FIXTURE. COORDINATE WORK WITH ENGINEER.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	VA	MOUNTING AND INSTRUCTIONS	LAMPING
S1	LITHONIA DSX1 LED 700 50K T5M MVOLT-SPUMBA-DBXD	208V	91	HUBBELL CAT# SSS-B-30'-40-B-1-B2-UL SQUARE POLE	LED-5000K
S1A	SAME AS S1 BUT TWO FIXTURES @ 180° (CONTRACT B ONLY)	208V	182	SAME AS S1	LED-5000K
S2 R	EXISTING HALOPHANE UNIQUE SOLUTIONS WASHINGTON POSTLIGHT (RELOCATED) CAT# WA175MH27A3A4-F1 BROSILICATE GLASS, TYPE 3 REFRACTOR	208V	54	EXISTING 13'-6" RIDGEFIELD CAST IRON AND STEEL POLE	TOPAZ LPT54/850/INT/E39 LED LAMP RETRO-FIT
S2A N	SAME AS S2, BUT NEW FIXTURE AND LAMP (AUOTSENSING INPUT VOLTAGE)	208V/ 277V	54	13'-6" RIDGEFIELD CAST IRON AND STEEL POLE	SAME AS S2

ORIGINAL SHEET - ARCH D

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Notes

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UGE	EXISTING UNDERGROUND POWER RACEWAY
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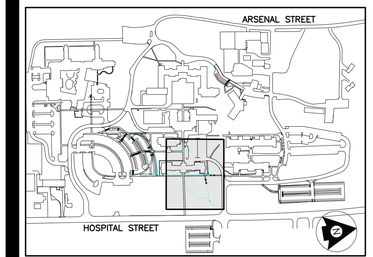
AWG	AMERICAN WIRE GAUGE



KEYPLAN
SCALE: 1"=500'

Revision	By	Appd.	YY.MM.DD
0 FOR BID	CEJ	DPN	16.09.12
Issued	By	Appd.	YY.MM.DD

File Name: A_E-103_lighting_layout_pln.dwg	Dwn.	Chkd.	Dsgn.	YY.MM.DD
		NAD	MLC	16.05.12

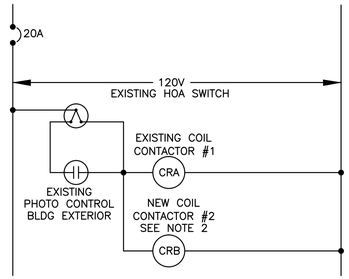
STATE OF MAINE
MICHAEL L. CLAIRDOLE
No. 7824
LICENSED PROFESSIONAL ENGINEER

Client/Project
STATE OF MAINE
BUREAU OF GENERAL SERVICES

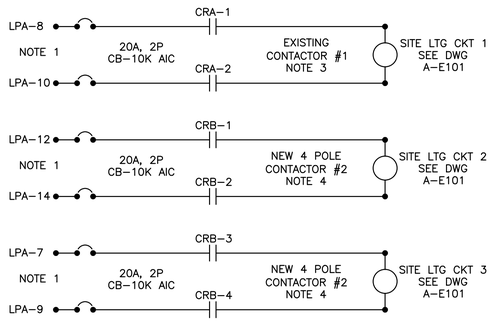
EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'
Augusta, Maine

Title
LIGHTING LAYOUT PLAN
SIDEWALK ADDITIONS AND
CAMPBELL BARN IMPROVEMENTS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-E103	35 of 36	0



EXISTING CB PANEL LPA CONTROL CIRCUIT



LIGHTING CONTROL SCHEMATIC

LIGHTING CONTROL SCHEMATIC NOTES:

1. REMOVE EXISTING 1P, 20A CIRCUIT BREAKERS AND INSTALL 2 POLE, 20 AMPERE, BOLT ON CIRCUIT BREAKERS AS INDICATED ON THE DRAWING. BREAKERS SHALL BE SQUARE D, NQOD BOLT ON STYLE TO MATCH THE EXISTING DEVICES.
PROVIDE 2 # 6 AWG THWN CU CONDUCTORS FROM EACH OVERCURRENT DEVICE TO THE EXISTING LIGHTING CONTROL PANEL. INSTALL ALL CONDUCTORS IN A 1-1/2" EMT CONDUIT WITH A COMMON # 6 AWG GREEN GROUND FROM PANEL LPA AND CONNECT TO LINE SIDE OF CONTACTS CRA-1, CRA-2, CRB-1, CRB-2, CRB-3 AND CRB-4 FOR CONTACTORS #1 AND #2.

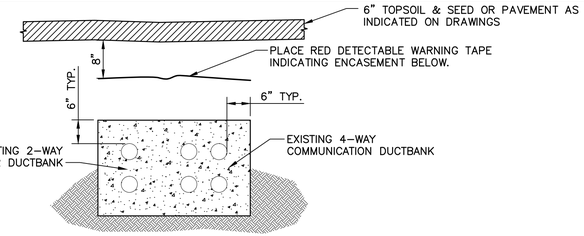
2. CONNECT COIL FOR NEW CONTACTOR (#2) IDENTICALLY TO CONTACTOR # 1 COIL. INSPECT CONTROL ENCLOSURE IN THE FIELD. PROVIDE ONE TVSS MODULE ON DIN RAIL.

3. REARRANGE EXISTING LINE AND LOAD WIRING AT EXISTING CONTACTOR # 1 AND INSTALL NEW LOAD SIDE CONDUCTORS FOR LTG CKT 1 TO CRA-1 AND CRA-2. ALL LOAD SIDE CONDUCTORS SHALL BE #6 THWN CU AWG IN COMMON 1 ½" RACEWAY FROM BOTH CONTACTORS TO PANEL LPA AND ROUTED THROUGH THE EXISTING 2" CONDUIT THROUGH THE EXISTING HAND HOLE ADJACENT TO THE NEW PULL BOX ON THE HARLOW BUILDING. ALSO SEE DRAWING A-E101.

4. INSTALL NEW LOAD SIDE CONDUCTORS FOR LTG CKTS 2,3 TO CRB-1, CRB-2,CRB-3 AND CRB-4 . ALL LOAD SIDE CONDUTORS SHALL BE #6 THWN CU AWG IN COMMON 1 ½" RACEWAY FROM BOTH CONTACTORS TO PANEL LPA AND ROUTED THROUGH THE EXISTING 2" CONDUIT THROUGH THE EXISTING HAND HOLE ADJACENT TO THE NEW PULL BOX ON THE HARLOW BUILDING. ALSO SEE DRAWING A-E101.

5. THE EXISTING CONTACTOR (#1) SERVES FIXTURES IN LOTS 7A,7B,7C AND 7D.

6. ALL FIXTURES SHALL OPERATE THROUGH A PHOTO-CONTROL (DUSK TO DAWN).



1. CONTRACTOR SHALL COORDINATE THE ENCASEMENT OF THE EXISTING DUCTBANKS WITH THE ENGINEER AFTER DUCTBANKS ARE UNCOVERED. UTILITIES REQUIRE AN EXTRA 2" OF CONCRETE COVER FOR EVERY 6" REDUCTION IN GROUND COVER THAT IS LESS THAN 30".
2. REFER TO DRAWING A-E101, NOTE 8

EXISTING CONDUIT ENCASEMENT DETAIL

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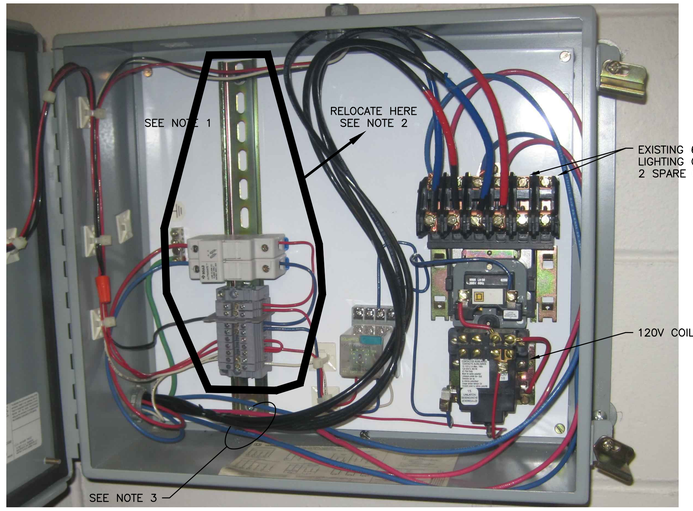
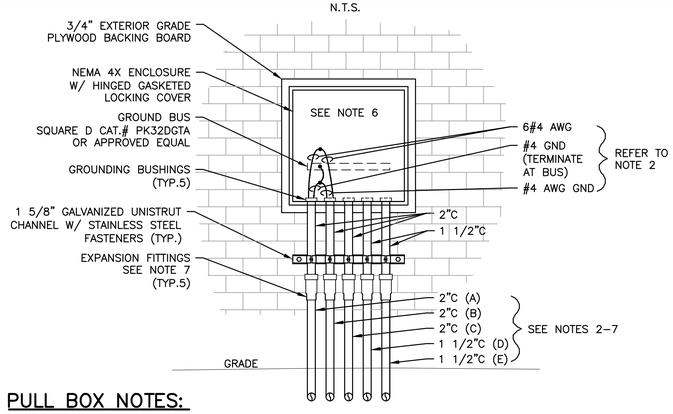


1. PROVIDE 4 POLE/30 AMPERE/208V LIGHTING CONTACTOR, TVSS MODULE AND 120 VOLT COIL IDENTICAL TO THE EXISTING CONTACTOR CHARACTERISTICS AS MANUFACTURED BY SQUARE D CORRPORATION. CONNECT 120 VOLT CONTROL CIRCUIT FROM THE PHOTO-EYE TO THIS CONTACTOR. SEE SCHEMATIC WIRING DIAGRAM THIS DRAWING.
2. RELOCATE DIN RAIL BETWEEN CONTACTOR #1 AND #2, RELAY AND SOCKET.
3. CIRCUITS FROM ADJACENT PANEL LPA ENTER THIS CABINET.

EXISTING LIGHTING CONTROL PANEL
EAST SWITCHGEAR BUILDING: PHOTOCELL CONTROL

N.T.S.



PULL BOX NOTES:

1. INSTALL PULL BOX AND CONDUITS ON THE BUILDING AS INDICATED IN THE SKETCH.
SPLICE CONDUCTORS FROM SITE LIGHTING FIXTURE FEEDERS TO CONDUCTORS INSTALLED TO THE EXISTING HANDHOLE. PULL CONDUCTORS THROUGH THE SPARE 2" CONDUIT TO THE EAST ELECTRICAL SWITHCHGEAR ROOM PANEL LPA. PROVIDE 2P CIRCUIT BREAKERS MATCHING THE CHARACTERISTICS AND RATINGS OF THE EXISTING CIRCUIT BREAKERS. CONNECT TO PANEL LP-A: CKTS: 8,10/9,11/25,27. REFER TO LIGHTING CONTROL SCHEMATIC THIS DRAWING.
2. CONDUIT A – 2" SCHEDULE 80 PVC, 6#4 AWG + #4 AWG GND (CKT 1,2,3 – NEW LIGHTING LOTS 7E, 7F)
CONDUIT B – 2" SCHEDULE 80 PVC, 6#4 AWG + #4 AWG GND TO EXISTING HANDHOLE EHH1 AND EAST ELECTRICAL SWITCHGEAR ROOM
3. CONDUIT C – 2" SCHEDULE 80 PVC, SPARE – CAP UNDER GRADE
4. CONDUIT D – 1 1/2" SCHEDULE 80 PVC, SPARE – CAP UNDER GRADE
5. CONDUIT E – 1 1/2" SCHEDULE 80 PVC, SPARE – CAP UNDER GRADE
6. PROVIDE 16" SQUARE X 12" DEEP STAINLESS STEEL ENCLOSURE AND GROUND BUS. FASTEN TO BRICK WITH 1/4" ANCHORS AND 1/4" STAINLESS STEEL LAG BOLTS.
(GROUND BUS: 24" – #8 AWG MINIMUM ENTRIES AND SIX # 4 AWG LUG. BOND TO ENCLOSURE.)
7. PROVIDE EXPANSION FITTINGS IN ALL CONDUITS ENTERING ENCLOSURE.

PULL BOX DETAIL – HARLOW BLDG.

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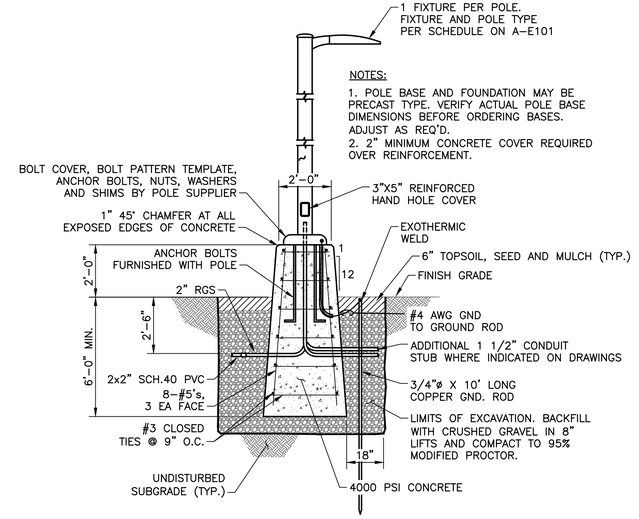

TYPE S1 POLE BASE DETAIL

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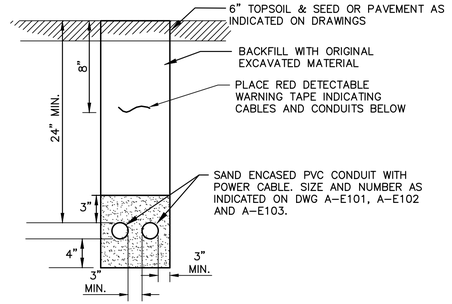

CONDUIT TRENCH

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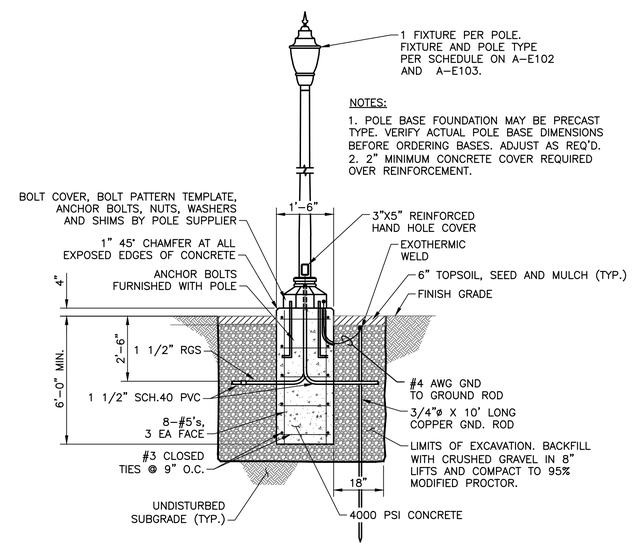

TYPE S2/S2A POLE BASE DETAIL

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Notes

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		NAD	MLC	

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BUREAU OF GENERAL SERVICES

EAST CAMPUS
INFRASTRUCTURE IMPROVEMENTS
CONTRACT 'A'

Augusta, Maine

Title
LIGHTING DETAILS

Project No.	Scale	
195210829	AS NOTED	
Drawing No.	Sheet	Revision
A-E201	36 of 36	0

ORIGINAL SHEET - ARCH D