

PLAN LEGEND	
Town, County, State	-----
Property Lines	-----
R/W Lines-Existing	-----
R/W Lines-Proposed	-----
Culvert-Existing	-----
Culvert Proposed	-----
Curbing Existing	-----
Curbing Proposed	-----
Type 1	-----
Type 3	-----
Type 5	-----
Outline of Bodies of Water	-----
Exposed Bedrock	-----
Buildings	-----
Trees	-----
Tree Line	-----
Clearing Limit Line	-----
Railroad	-----
Catch Basins	Existing Proposed
Manholes	Existing Proposed
Proposed Underdrain	-----
Proposed Ditch	-----
Existing Ditch	-----
Utility Poles	Existing Proposed
Fire Hydrants	Existing Proposed
Existing Water Line	-----
Existing San. Sewer	-----
Existing San. Sewer Manhole	-----
Guardrail-Existing	-----
Guardrail-Proposed	-----
Guardrail-Cable, Other	-----
Centerline-Existing	-----
Centerline-Proposed	-----
Travelway-Existing	-----
Travelway-Proposed	-----
Boring	HB-XXX-###
Pavement Core	PC-#
Test Pit	TP-XXX-###
Probe	P-#. #X
	#.# = Depth
	X = W (Weathered Rock)
	R (Refusal)
	NR (No Refusal)

STATE OF MAINE  
 BUREAU OF GENERAL SERVICES  
**AUGUSTA**  
 KENNEBEC COUNTY  
 CHAMBERLAIN STREET RETAINING WALL  
**RECONSTRUCTION PROJECT**  
 BLAINE HOUSE - CAPITAL COMPLEX  
**PROJECT NUMBER 3172**

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BUREAU OF GENERAL SERVICES  
 STATE OF MAINE, DAFS  
 77 SHS, AUGUSTA, MAINE 04333-0077

SIGNATURE: *Keith S. Wood*  
 P.E. NUMBER: 16423  
 DATE: 3/8/23  
 PROFESSIONAL ENGINEER  
 No. 10493  
 STATE OF MAINE

PROJECT INFORMATION	
PROJECT MANAGER	JILL INSTASI
DESIGNER	KEITH WOOD
CONSULTANT	KLEINFELDER

AUGUSTA  
 CHAMBERLAIN STREET  
 RETAINING WALL  
 TITLE SHEET

SHEET NUMBER  
**1**  
 OF 4



<b>PROJECT LOCATION:</b>	BLAINE HOUSE - CHAMBERLAIN STREET AUGUSTA, MAINE
<b>SCOPE OF WORK:</b>	RETAINING WALL RECONSTRUCTION

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
201.23	REMOVING SINGLE TREE TOP ONLY	1	EA
201.24	REMOVING STUMP	1	EA
202.12	REMOVING EXISTING STRUCTURAL CONCRETE	100	CY
203.20	COMMON EXCAVATION	50	CY
203.26	GRAVEL BORROW	100	CY
206.061	STR EARTH BELOW GRADE STR	90	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	40	CY
403.208	HOT MIX ASPHALT 12.5 MM SURFACE	6	T
403.209	HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	5	T
409.15	BITUMINOUS TACK COAT - APPLIED	2	G
607.1702	TEMP CHAIN LINK FENCE - 6' (350 LF)	1	LS
607.24	REMOVE AND RESET FENCE	390	LF
615.07	LOAM	70	CY
618.13	SEEDING METHOD NUMBER 1	5	UN
619.12	MULCH	5	UN
627.733	4" WHITE OR YELLOW PAVEMENT AND CURB MARKING	33	SF
629.05	HAND LABOR - STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.20	FIELD OFFICE TYPE C	1	EA
652.33	DRUM	25	EA
652.34	CONE	25	EA
652.35	CONSTRUCTION SIGN	200	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	50	CD
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS
681.10	PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL	1900	SF

**GENERAL NOTES**

- REPLACEMENT PAVEMENT THICKNESSES ARE INTENDED TO MATCH EXISTING PARKING AREA AND SIDEWALK PAVEMENT. THICKNESSES TO BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS OF THE PARKING LOT SHALL BE RECONSTRUCTED WITH 3.5 INCHES OF HOT MIX ASPHALT (2 INCHES 403.208 AND 1.5 INCHES 403.09) AND 24 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL.
- SIDEWALK SHALL BE RECONSTRUCTED WITH 2 INCHES OF HOT MIX ASPHALT AND 12 INCHES OF AGGREGATE SUBBASE COURSE GRAVEL.
- ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE ENGINEER. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
- REMOVAL OF EXISTING HOT MIX ASPHALT SIDEWALKS AND PARKING AREAS WILL BE PAID FOR AS ITEM 203.20 COMMON EXCAVATION.
- NO EXISTING DRAINAGE SHALL BE ABANDONED, RELOCATED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- LOAM HAS BEEN ESTIMATED FOR DISTURBED LAWN AREAS. ACTUAL PLACEMENT OF THE LOAM SHALL BE AS NOTED ON THE PLANS OR DESIGNATED BY THE ENGINEER.
- UNLESS OTHERWISE NOTED SEEDING METHOD NO.1 SHALL BE UTILIZED ON ALL LAWNS AND DEVELOPED AREAS.
- LOAM SHALL BE PLACED TO A NOMINAL DEPTH OF 4 INCHES.
- ALL EXISTING TREES UNLESS NOTED OTHERWISE SHALL REMAIN AND BE PROTECTED FROM DISTURBANCE DURING CONSTRUCTION.
- AREAS ON THE PROJECT REQUIRING FILL WILL COME FROM SUITABLE SITES SUCH AS PROJECT EXCAVATION AREAS.
- NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
- "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE ENGINEER.
- REMOVING & RESETTING OF EXISTING RAISED BED PLANTERS IS INCIDENTAL TO THE CONTRACT.
- THE LOCATIONS OF UNDERGROUND UTILITIES ARE BASED ON THE FOLLOWING PLANS FOR THE CHAMBERLAIN STREET PARKING LOT IMPROVEMENT PROJECT: TOPOGRAPHIC AND UTILITY PLAN SHEET 3, DATED DEC. 2019 BY SJR ENGINEERING AND UNTITLED SHEET SHOWING THE PROPOSED UTILITIES ISSUED FOR CONSTRUCTION 04-09-2021, WITH ADDENDUMS THROUGH 5-3-2021 BY ALLIED ENGINEERING. THE UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE AND MAY VARY FROM THE LOCATION SHOWN HEREON. ADDITIONAL UNDERGROUND UTILITIES AND/OR STRUCTURES MAY BE ENCOUNTERED. LOCATIONS OF ALL SUBSURFACE STRUCTURES AND UTILITIES SHOULD BE VERIFIED IN COORDINATION WITH THE APPROPRIATE AGENCY/UTILITY. THE CONTRACTOR SHALL CONTACT THE NON-MEMBER UTILITIES (AGENCY/UTILITY), AS IDENTIFIED ON OKTODIG.COM AND SPECIAL PROVISION SECTION 104 - UTILITIES, AND THE DIG SAFE CALL CENTER AT LEAST 72 HOURS IN ADVANCE OF ANY EXCAVATION ACTIVITIES.

- THE EXISTING CONCRETE RETAINING WALL SHALL BE REMOVED TO THE TOP OF THE EXISTING FOOTING. ALL PROTRUDING REBAR SHALL BE CUT FLUSH WITH THE TOP OF THE FOOTING. PAYMENT FOR REMOVAL OF THE EXISTING CONCRETE RETAINING WALL, CUTTING OF PROTRUDING REBAR AND ALL OTHER WORK RELATED TO THE REMOVAL OF THE EXISTING RETAINING WALL WILL BE PAID FOR UNDER ITEM 202.12 REMOVING EXISTING STRUCTURAL CONCRETE.
- STRUCTURAL EXCAVATION TO THE BOTTOM OF THE PROPOSED CRUSHED STONE FOUNDATION (ELEVATION 100) FOR REMOVAL OF THE EXISTING WALL SHALL BE INCIDENTAL TO PAY ITEM 681.10 - PRECAST AGGREGATE FILLED CONCRETE BLOCK GRAVITY WALL. ALL EXCAVATION BELOW ELEVATION 100, SHALL BE PAID FOR UNDER PAY ITEM 206.061 STRUCTURAL EARTH EXCAVATION BELOW GRADE. LIMITS OF STRUCTURAL EXCAVATION SHALL BE 1'-6" EITHER SIDE OF THE CRUSHED STONE FOUNDATION AND TO THE VERTICAL LIMITS SHOWN IN THE TYPICAL RETAINING WALL SECTION.
- FINAL STRIPING FOR THE PROJECT SHALL BE DONE BY THE CONTRACTOR TO MATCH THE PREVIOUS STRIPING. PAYMENT SHALL BE MADE UNDER APPROPRIATE CONTRACT ITEMS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE RECENTLY RECONSTRUCTED PARKING LOT. TRACKED EQUIPMENT WILL NOT BE ALLOWED ON THE PARKING LOT PAVEMENT. ANY DAMAGE TO THE PARKING LOT OUTSIDE THE LIMITS OF PROPOSED WORK, CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE EXISTING COMPOSITE STOCKADE FENCE TO BE REMOVED AND RECONSTRUCTED. ANY DAMAGE TO THE FENCE, CAUSED BY THE CONTRACTOR'S EQUIPMENT, PERSONNEL OR OPERATION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER. ALL WORK, EQUIPMENT, AND MATERIALS REQUIRED TO MAKE REPAIRS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL ACCESS THE AREA BEHIND THE EXISTING SECURITY FENCE THROUGH THE ACCESS GATE ON THE BACK SIDE OF THE GOVERNOR'S STAFF HOUSE ADJACENT TO THE BLAINE HOUSE ENTRANCE ON CHAMBERLAIN STREET.
- THE PROJECT GEOTECHNICAL REPORT, EXPLORATIONS AND GEOTECHNICAL ENGINEERING SERVICES RETAINING WALL REPLACEMENT CHAMBERLAIN STREET AUGUSTA, MAINE, PREPARED BY S.W. COLE ENGINEERING, INC. IS AVAILABLE FOR REVIEW AT THE BUREAU OF GENERAL SERVICES.
- THE ESTIMATED QUANTITY REQUIRED FOR STRUCTURAL EXCAVATION AND THE LIMITS OF EXCAVATION AND GRANULAR BORROW BACKFILL FOR THE PROPOSED PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO REMOVE THE EXISTING RETAINING WALL AND CONSTRUCT THE PROPOSED WALL. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACK SLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED CONTRACT ITEMS.
- THE PROPERTY/BOUNDARY LINES SHOWN ON THE PLAN WERE NOT SURVEYED AND ARE APPROXIMATE. FOR THE ACTUAL PROPERTY/BOUNDARY LINES, REFER TO THE BOUNDARY SURVEY COMPLETED BY NORTHEAST CIVIL SOLUTIONS, ISSUED MAY 5, 2022.
- PRIOR TO THE START OF WORK BEHIND THE EXISTING COMPOSITE STOCKADE FENCE, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY 6-FOOT HIGH CHAIN LINK SECURITY FENCE WITH SEMI-TRANSPARENT PRIVACY SCREENING AROUND THE PROPOSED LAYDOWN AREA, AS SHOWN ON THE PLANS. THE FENCE SHALL BE REMOVED AT THE END OF THE PROJECT AFTER THE EXISTING COMPOSITE STOCKADE FENCE HAS BEEN RECONSTRUCTED. PAYMENT FOR TEMPORARY SECURITY FENCE SHALL BE MADE UNDER PAY ITEM 607.1702 TEMPORARY CHAIN LINK FENCE - 6'.

- AFTER CONSTRUCTION OF THE TEMPORARY 6-FOOT HIGH CHAIN LINK SECURITY FENCE, THE EXISTING COMPOSITE STOCKADE FENCING MAY BE REMOVED TO THE LIMITS SHOWN ON THE PLANS AND RESET TO THE PROPOSED TEMPORARY LOCATION FOR THE DURATION OF THE PROJECT. AFTER CONSTRUCTION OF THE PROPOSED WALL, THE COMPOSITE STOCKADE FENCING SHALL BE REMOVED FROM THE TEMPORARY LOCATION AND RESET TO IN ITS ORIGINAL LOCATION. PAYMENT FOR EACH REMOVAL AND RESETTING OF THE EXISTING COMPOSITE STOCKADE FENCE WILL BE MADE UNDER PAY ITEM 607.24 REMOVE AND RESET FENCE.
- THE EXISTING COMPOSITE STOCKADE FENCE WAS CONSTRUCTED BY PINE TREE FENCE, OF 1174 LEWISTON ROAD, LITCHFIELD, MAINE. THE EXISTING COMPOSITE FENCE SHALL BE RECONSTRUCTED IN THE SAME MANNER AS THE ORIGINAL FENCE AND ALL COMPONENTS SHALL BE MAINTAINED. FOR ADDITIONAL INFORMATION RELATED TO THE CONSTRUCTION OF THE EXISTING FENCE, CONTACT PINE TREE FENCE.
- THE EXISTING TREES AND OTHER OBJECTS BEHIND THE EXISTING COMPOSITE FENCE TO REMAIN IN PLACE FOR THE DURATION OF THE PROJECT SHALL BE PROTECTED BY A MEANS APPROVED BY THE ENGINEER/OWNER. PAYMENT FOR THE PROTECTION OF THE TREES AND OTHER OBJECTS SHALL BE CONSIDERED INCIDENTAL.
- ALL EXISTING SIGNAGE REMOVED AS PART OF THE PROJECT SHALL BE RESET IN THE SAME LOCATION. PAYMENT FOR REMOVING AND RESETTING EXISTING SIGNAGE SHALL BE CONSIDERED INCIDENTAL.
- THE TEMPORARY RESETTING OF THE EXISTING COMPOSITE STOCKADE FENCE SHALL NOT BLOCK THE ACCESS TO THE EXISTING BATHROOM DOOR LOCATED ON THE BACK SIDE OF THE GOVERNOR'S STAFF HOUSE AT THE EAST END OF THE BUILDING. A MINIMUM 8' WIDE ACCESS SHALL BE PROVIDED TO THIS ENTRANCE.
- THE CONTRACTOR SHALL BE ALLOWED TO CLOSE THE PORTIONS OF THE PARKING LOT ADJACENT TO THE WALL WITHIN THE PROPOSED LAYDOWN AREA. THE CONTRACTOR SHALL NOT CLOSE ACCESS TO THE ROW OF PARKING PARALLEL AND ADJACENT TO HIGGINS STREET. THE ENTRANCE TO THE PARKING LOT FROM HIGGINS STREET AND THE NORTHERLY ENTRANCE FROM CHAMBERLAIN STREET ALONG WITH THE 26 FEET WIDE LANE BETWEEN THE PARKING SPACES SHALL REMAIN OPEN AT ALL TIMES.
- AT THE COMPLETION OF THE PROJECT, THE LAWN SHALL BE REPAIRED TO ITS ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL PAYMENT FOR LOAM, SEED, AND MULCH BEYOND THOSE NOTED ON THE PLANS FOR AREAS DISTURBED BY THE CONTRACTOR. ALL ADDITIONAL WORK SHALL BE INCIDENTAL TO RELATED CONTRACT ITEMS.
- THE DISTURBED LENGTH OF EXISTING CONCRETE CURB SHALL BE REMOVED AND RESET. PAYMENT FOR ALL WORK RELATED TO REMOVE AND RESETTING THE EXISTING CONCRETE CURB SHALL BE CONSIDERED INCIDENTAL.

BUREAU OF GENERAL SERVICES  
STATE OF MAINE, DAFS  
77 SHS, AUGUSTA, MAINE 04333-0077



Keith S. Wood  
SIGNATURE  
14 4/23  
P.E. NUMBER  
3181623  
DATE

DATE	BY	J. INSTAS	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
3/2/2023	A. THREBault										
3/2/2023	P. DUVAL										

AUGUSTA  
CHAMBERLAIN STREET  
RETAINING WALL  
QUANTITIES & NOTES

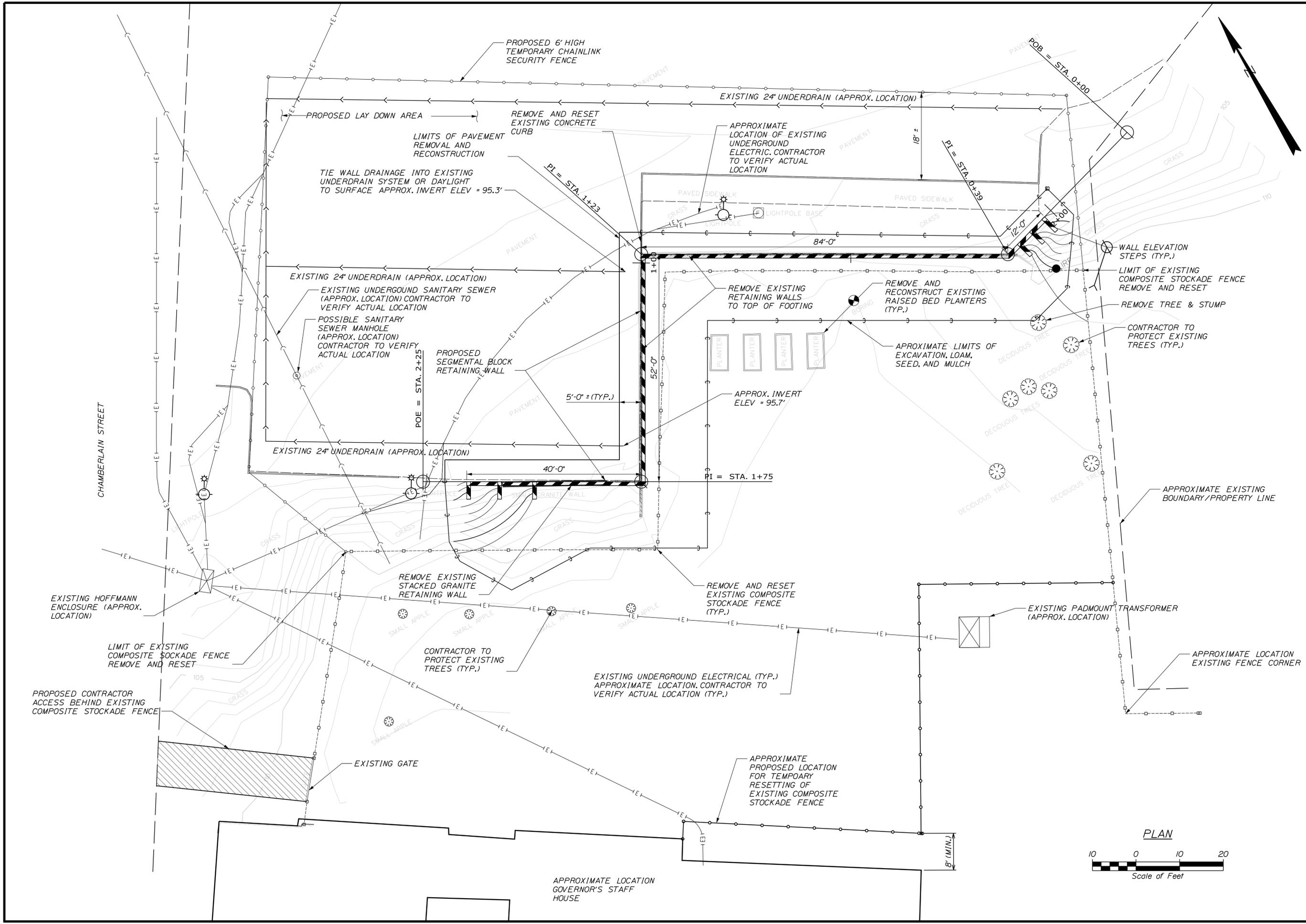
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OF 4

Date: 3/7/2023

Username:

Division: BRIDGE

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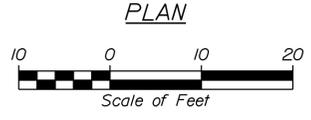
BUREAU OF GENERAL SERVICES  
 STATE OF MAINE, DAFS  
 77 SHS, AUGUSTA, MAINE 04333-0077

STATE OF MAINE  
 PROFESSIONAL ENGINEER  
 No. 10423  
 3/8/2023

PROJ. MANAGER	J. INSTASI	BY	DATE
DESIGN DETAILED	A. THREFAULT	A. THREFAULT	3/2/2023
CHECKED/REVIEWED	WOOD	P. DUVAL	3/2/2023
DESIGN DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

AUGUSTA STREET  
 CHAMBERLAIN STREET  
 RETAINING WALL  
 PLAN

SHEET NUMBER  
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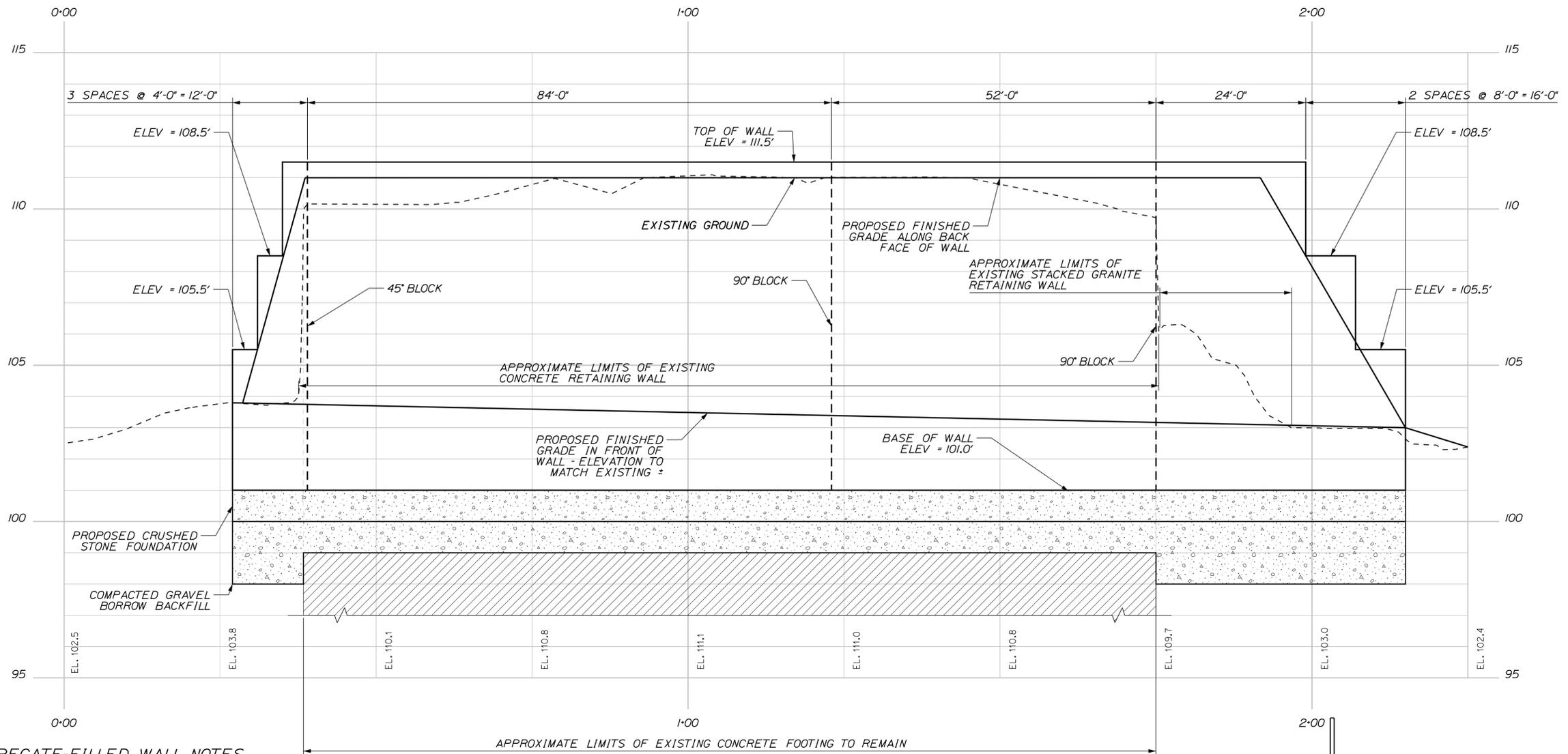
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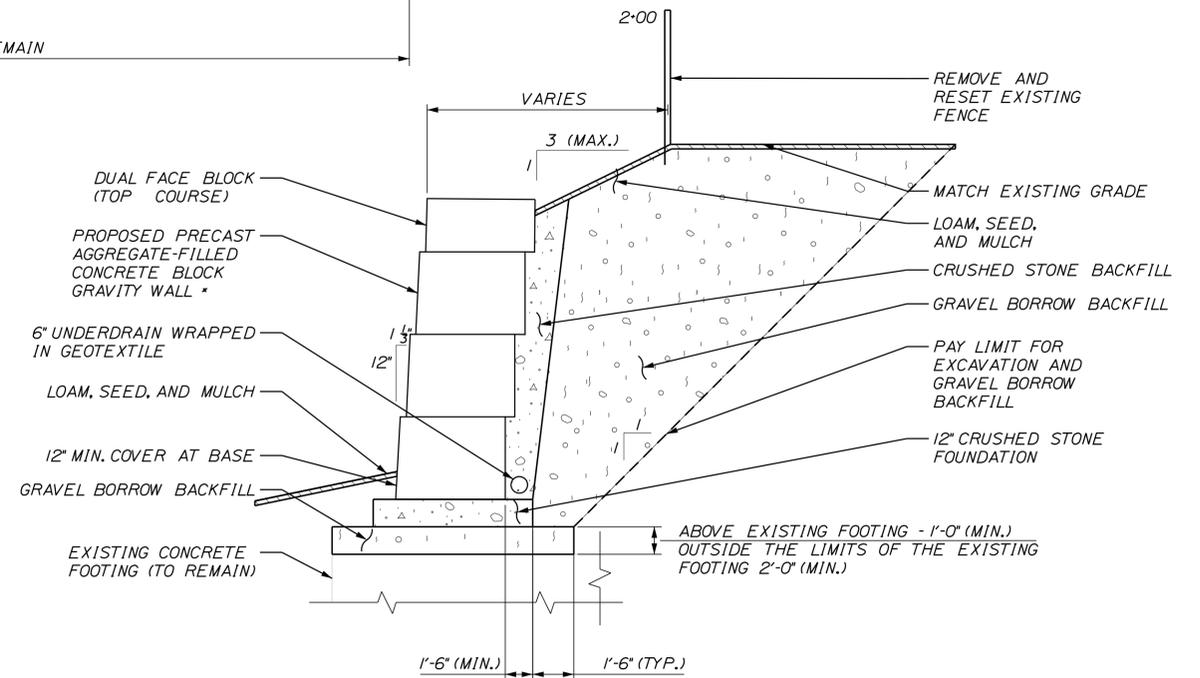
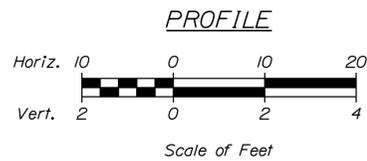
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### PRECAST AGGREGATE-FILLED WALL NOTES

1. THE CONTRACTOR SHALL PROVIDE A PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL IN ACCORDANCE WITH SECTION 681. THE PRECAST AGGREGATE-FILLED WALL SHALL BE DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND THE DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. PLAN DETAILS ARE SHOWN FOR ESTIMATING PURPOSES ONLY.
2. THE PRECAST UNITS SHALL BE THE STONE STRONG SYSTEM MANUFACTURED BY STONE STRONG, LLC 13460 CHANDLER ROAD, SUITE 100 OMAHA, NEBRASKA 68138. THE FACING OF THE WALLS SHALL BE THE CHISELED GRANITE PATTERN.
3. THE APPLIED BEARING PRESSURE FOR THE PRECAST AGGREGATE-FILLED WALLS SHALL NOT EXCEED THE NET ALLOWABLE BEARING RESISTANCE OF 1.5 KSF.
4. THE TOP COURSE OF BLOCKS FOR ALL LOCATIONS SHALL BE A DUAL FACE BLOCK.
5. END CORNER BLOCKS SHALL BE USED AT EACH STEP IN WALL HEIGHT AT BOTH ENDS OF THE WALL.
6. 45° AND 90° BLOCKS SHALL BE UTILIZED AT THE CORNERS AS NOTED ON THE PLANS.
7. THE FOUNDATION FOR THE PROPOSED WALL SHALL CONSIST OF 12 INCHES OF COMPACTED CRUSHED STONE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC (MIRADI 160N OR APPROVED EQUAL).
8. BACKFILL FOR THE RETAINING WALL SHOULD MEET THE REQUIREMENT OF STANDARD SPECIFICATION 703.20 GRAVEL BORROW, EXCEPT THE BACKFILL MATERIAL SHALL ONLY CONTAIN MATERIAL PASSING THE 3-INCH SIEVE.
9. THE UNDERDRAIN FOR THE PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL SHALL BE TIED INTO THE EXISTING 24 INCH UNDERDRAIN IN THE PARKING LOT. PAYMENT FOR THE UNDERDRAIN AND ALL WORK TO CONNECT THE PROPOSED UNDERDRAIN TO THE EXISTING UNDERDRAIN SHALL BE INCIDENTAL TO PAY ITEM 681.10, PRECAST AGGREGATE-FILLED CONCRETE BLOCK GRAVITY WALL.
10. THE CONTRACTOR SHALL OVER EXCAVATE THE AREA BELOW THE PROPOSED CRUSHED STONE FOUNDATION TO THE LIMITS SHOWN IN THE TYPICAL RETAINING WALL SECTION. SEE GENERAL NOTE 17 FOR THE PAY LIMITS OF STRUCTURAL EXCAVATION. THE EXCAVATION SHALL BE BACKFILLED WITH GRAVEL BORROW TO THE STRUCTURAL EXCAVATION PAY LIMITS. PAYMENT FOR GRANULAR BORROW BELOW THE PROPOSED CRUSHED STONE FOUNDATION SHALL BE MADE UNDER PAY ITEM 203.26 GRAVEL BORROW.



TYPICAL RETAINING WALL SECTION

(NOT TO SCALE)

\* STONE STRONG WALL SYSTEM WITH CHISELED GRANITE FACE TO BE UTILIZED (SPECIAL PROVISION 681.10)

BUREAU OF GENERAL SERVICES  
STATE OF MAINE, DAFS  
77 SHS, AUGUSTA, MAINE 04333-0077

PROFESSIONAL ENGINEER  
K. WOOD  
No. 10483  
3/8/2023

DATE	3/7/2023
BY	A. SHKARA P. DUVAL
J. INST. ASST.	A. SHKARA K. WOOD
DESIGNED	
CHECKED	
DESIGNED/REVIEWED	
DESIGNED/REVIEWED	
REVISIONS 1	
REVISIONS 2	
REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

AUGUSTA STREET  
CHAMBERLAIN STREET  
RETAINING WALL  
WALL PROFILE & SECTION

SHEET NUMBER

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OF 4