GENERAL NOTES:

- 1. ALL WORK SHALL CONFORM TO THE "2020 INTERNATIONAL BUILDING CODE", THE NYS "2020 UNIFORM CODE SUPPLEMENT", AND ALL LOCAL BUILDING CODES, LATEST EDITIONS.
- ALL WORK SHALL ALSO CONFORM TO THE LATEST EDITION OF THE "BUILDING CODE OF NEW YORK STATE" AND NYS-SED REQUIREMENTS & SPECIFICATIONS
- THE CONTRACTOR SHALL NOT SUBSTITUTE ANY MATERIAL SPECIFIED WITHOUT ENGINEER'S & OWNERS' PRIOR APPROVAL
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, TECHNIQUES, SEQUENCES, AND METHODS OF CONSTRUCTION.
- PRIOR TO THE START OF WORK, THE CONTRACTOR VERIFY THE FOLLOWING:
 - ALL DIMENSIONS AND ELEVATIONS;
 - THE EXISTING CONDITIONS.
 - DETERMINE ANY SITE OR BUILDING RESTRICTIONS - REPORT ANY DEFICIENCIES TO THE ENGINEER.
- THE CONTRACTOR SHALL CONTINUOUSLY PROTECT THE EXISTING STRUCTURE DURING THE COURSE OF WORK. THIS PROTECTION SHALL REMAIN IN PLACE UNTIL ALL WORK IN A GIVEN AREA IS COMPLETED. IF ANY DAMAGE TO THE EXISTING STRUCTURE OCCURS IT SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT CHARGE TO THE OWNER.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, PROTECTING, AND WAREHOUSING ALL MATERIALS NEEDED FOR THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AT THE JOB SITE, INCLUDING THE EFFECT CONSTRUCTION PROCEDURES MAY HAVE ON PROPERTY AND PERSONS AT THE JOB SITE.
- THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS. HE SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS.
- 10. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THEY CANNOT COMPLY WITH ANY NOTES ON THIS Drawing OR ANY OTHER DRAWINGS IN THIS SET OF CONTRACT DOCUMENTS/ OR IF THERE IS A CONFLICT.
- THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOBSITE DURING ALL PHASES OF CONSTRUCTION. 11.
- 12. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK FOR WHICH HE EXPECTS ADDITIONAL COMPENSATION BEYOND THE CONTRACT AMOUNT WITHOUT THE ARCHITECTS' & OWNERS' WRITTEN AUTHORIZATION.
- 13. ALL NEW WORK SHALL MATCH THE EXISTING FINISHES AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL ONLY USE THE UNDERPASS ROADWAY AREA FOR LOADING & UNLOADING OF MATERIALS. AT ALL ALL OTHER TIMES THE 14. CONTRACTOR SHALL PARK THEIR VEHICLES AT LOCATIONS DIRECTED BY OWNER (SUNY-PURCHASE COLLEGE).
- 15. THE CONTRACTOR SHALL PLACE PROTECTIVE CONES & CAUTION TAPE AROUND WORK AREAS FOR A MINIMUM DISTANCE OF 6' TO DETOUR FOOT-TRAFFFIC AROUND THEIR WORK AREA.
- 16. CONTRACTOR PERSONAL SHALL HAVE PROTECTIVE GEAR IN COMPLIANCE WITH OSHA REGULATIONS INCLUDING THE FOLLOWING: SAFETY VESTS. HARD-HATS, HARD-SOLED WORK BOOTS, PROTECTIVE EYEWEAR, PROTECTIVE FACE MASKS, AND SUCH FORTH.
- 17. CONTRACTOR'S WORKFORCE SHALL NOT SMOKE ON SCHOOL PREMISES, NOR CONSUME ANY ALCOHOLIC BEVERAGES.
- THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS TO MAINTAIN TEMPORARY ELECTRIC, LIGHTING, AND WATER DURING CONSTRUCTION. 18.
- GUARANTEE: ALL WORK INCLUDED IN THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DETECTS OR MATERIALS AND WORKMANSHIP FOR 19. THE PERIOD SPECIFIED BY THE MANUFACTURER OR ONE YEAR. WHICHEVER IS LONGER, FROM THE DATE OF OCCUPANCY.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE EXITS AT ALL TIMES. 20.
- 21. THE CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF ALL SUBCONTRACTORS TO BE USED ON THIS PROJECT.
- 22. THE CONTRACTOR IS REQUIRED TO HAVE A COMPETENT SUPERINTENDENT ON THE SITE WHEN WORK IS IN PROGRESS.
- 23. THE CONTRACTOR SHALL BE COMPETENTLY REPRESENTED AT EVERY WEEKLY JOB MEETING. THE SCHEDULING OF THESE WEEKLY JOB MEETINGS SHALL BE JOINTLY AGREED UPON AT THE BEGINNING OF CONSTRUCTION.
- 24. THE FINISHED JOB SHALL BE DELIVERED IN A FINISHED AND CLEAN MANNER. INCLUDING POLISHING COUNTERTOPS, AND CLEANING WINDOWS AND FLOORS.
- 25. OWNER SHALL PAY FOR ALL SURVEYOR AND BUILDING PERMIT FEES.
- 26. DO NOT SCALE DRAWINGS.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND BRACING REQUIRED TO MAINTAIN THE STRUCTURAL STABILITY OF THE BUILDING DURING CONSTRUCTION.
- PROTECT ALL EXISTING CONDITIONS DURING CONSTRUCTION. IF DAMAGED, RESTORE & REPLACE AT NO EXPENSE TO "STATE UNIVERSITY OF NEW YORK - PURCHASE COLLEGE" HEREIN KNOWN AS THE OWNER.
- KNOW AS ALL SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME, AND SIMILAR CONDITIONS, UNLESS OTHERWISE SPECIFICALLY NOTED.
- 30. AN ASBESTOS SURVEY SHALL BE CONDUCTED PRIOR TO DEMOLITION OR RENOVATION. GOVERNMENT AGENCIES SHALL BE NOTIFIED IF ASBESTOS IS REMOVED, AND PRIOR TO ALL DEMOLITIONS. REMOVE AND DISPOSE OF ASBESTOS AS PER GOVERNMENT REGULATIONS.
- 31. THE CONTRACTOR SHALL PROVIDE EVIDENCE OF WORKMAN'S COMPENSATION AND LIABILITY INSURANCE IN FORCE PRIOR TO COMMENCING WORK, AND NAMING OF THE OWNER AS ADDITIONALLY INSURED ..
- 32. THOSE ITEMS NOT SPECIFIED ON THE DRAWINGS, BUT IMPLIED AS NECESSARY AS PART OF THE WORK SHALL BE CONSIDERED A PART THEREOF. ALL WORK IS TO BE PERFORMED BY MECHANICS SKILLED IN THEIR TRADE. 33.
- 34. THESE DRAWINGS ARE ISSUED FOR CONSTRUCTION BIDDING & PRICING. UPON AWARD, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL BE ISSUED A FINAL, STAMPED SET OF APPROVED CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL ERECT A 6' AROUND THE WORK AREA SHOWN AND LOCATE ALL EQUIPMENT NEEDED TO CONDUCT THE PROJECT WITHIN THIS 35. WORK AREA INCLUDING - THE DECON UNIT (ASBESTOS ABATEMENT), DUMPSTERS, LADDERS, NEW MATERIALS.
- 36. SHOULD INTERFERENCES OCCUR DUE TO UNFORESEEN CONDITIONS, CALL ENGINEER TO PREPARE ALTERNATE DETAILS.
- 37. IMPLEMENTING JOB SAFETY AND CONSTRUCTION PROCEDURES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 38. THE STRUCTURAL DRAWINGS ARE INTENDED TO INDICATE THE MAIN STRUCTURAL FEATURES OF THE PROJECT. ANY NON-STRUCTURAL (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC) DETAILS SHOWN ARE PURELY FOR SCHEMATIC IN NATURE AND MAY NOT REPRESENT OR REFLECT THE COMPLETE CONSTRUCTION. THE ARCHITECTURAL AND M/E/P DRAWINGS MUST BE USED IN CONJUNCTION WITH THE PROJECT STRUCTURAL DRAWINGS DURING ALL PHASES OF WORK.
- ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND THE DRAWINGS OF OTHER DISCIPLINES SHALL BE BROUGHT TO 39. THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
- 40. THE EXISTING BUILDING INFORMATION SHOWN IS AS INDICATED ON THE EXISTING BUILDING DRAWINGS, AND PROVIDED BY OTHERS. FIELD VERIFY ALL EXISTING BUILDING INFORMATION (DIMENSIONS, ELEVATIONS, UTILITIES ETC.), AND NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.
- 41. THE CONTRACTOR SHALL CONTACT THE STRUCTURAL ENGINEER UPON DISCOVERY OF ANY DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL EXISTING CONDITIONS.
- 42. DO NOT SCALE THE STRUCTURAL DRAWINGS.
- 43. REFER TO ARCH. DRAWINGS AND SPECIFICATIONS REGARDING FINISHES, WATERPROOFING, ETC.
- 44. THE PORTIONS OF THE BUILDING THAT ARE SHOWN TO BE STRUCTURAL MODIFIED HAVE BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICE. HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY DAMAGES THAT MAY ARISE FOR ANY PORTION OF THE BUILDING NOT REDESIGNED, ALTERED OR CONSTRUCTED UNDER THIS SET OF DESIGN DRAWINGS. FURTHER, WE CANNOT TAKE ANY RESPONSIBILITY IN BUILDING DEFICIENCIES, WHICH ARE NOT INCLUDED IN THE SCOPE OF THESE MODIFICATIONS.
- 45. FIRE AND LIFE-SAFETY PROTECTION NOTES

DFMOI ITION

- DEMOLITION: ALL DEBRIS REMOVAL AND ABATEMENT TO BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, FEDERAL & OSHA GUIDELINES & LAWS. THE CONTRACTOR SHAD MAINTAIN THE STRUCTURAL INTEGRITY OF THE BUILDING AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR ANY UNFORESEEN PROBLEMS. THE CONTRACTOR THAT PROTECT THE BUILDING DURING DEMOLITION. DEBRIS CHUTES SHALL BE INSTALLED AS PER CODES.
- REMOVE ALL CONSTRUCTION AS NECESSARY IN ORDER THAT THE NEW WORK CAN BE PERFORMED.
- ALL MECHANICAL AND ELECTRICAL REMOVALS, ABOVE AND UNDERGROUND, SHALL BE HANDLED IN AN APPROVED MANNER AND ALL LINES SHALL BE TERMINATED IN AN APPROVED MANNER.
- SAWCUT THE FULL-DEPTH IN SMALL QUADRANTS TO REMOVE THE EXISTING CONCRETE IN A DUSTLESS MANOR.
- 5. CORE DRILL THE CORNERS OF THE NEW SLAB OPENING AT THE CORNERS AS REQUIRED TO PREVENT OVERCUTTING.

MAJOR SCOPE OF WORK:

STAGING & PHASING OF WORK:

- PURCHASE COLLEGE TO IDENTIFY THE STAGING LOCATIONS.

DEMOLITION NOTES:

- AT SOUTHEAST AND NORTHWEST PAC STAIRS).
- REMOVE THE BRICK VENEER TO THE EXTENTS SHOWN.

- 7. AT PAC STAIRS, REMOVE EXISTING WOOD HANDRAILS
- TO EXTENT SHOWN.

DAMAGES

<u>JOR ITEMS OF NEW WORK</u>
<u>AT BRICK VENEER ON STAIR W</u>
 A. REMOVE EXISTING RAILING B. REMOVE AND COPING STO C. REMOVE EXISTING FACE B D. REPAIR THE EXISTING CON INSPECTIONS. E. REPLACE FACE BRICK AS i. ON THE OUTSIDE WAL
 ii. ON INSIDE STAIR WAL iii. PROVIDE OUTSIDE FL F. PROVIDE MASONRY WALL G. PROVIDE WEEPS ABOVE A H. PROVIDE MORTAR TRAPS A I. ON OUTSIDE WALLS, PROVIDE J. RESET GRANITE COPINGS K. REPLACE CRACKED COPIN L. BELOW THE BASE (MFL) H M. CAULK AND SEAL ALL JOIN N. REPAIR THE EXISTING CON O. BELOW THE NORTHWEST A
AT BRICK VENEER ON BUILDING A. REMOVE ALL EX'G CONDU B. REMOVE ALL EXISTING RAI C. REPOINT THE BUILDING W
STAINLESS STEEL HAND RAILING A. REMOVE & DISPOSE OF E B. FIELD MEASURE EXISTING C. PREPARE SHOP DRAWINGS AND DWG. S7); D. INSTALL STAINLESS STEEL
CONDUCT CONCRETE REPAIRS
INSTALL ALL HELI—TIES (AS PE ELEVATIONS C/S2 & ELEVATION
INSTALL NEW CAST-IN-PLACE (S4), AS FOLLOWS: A. THE NEW TOPPING SLABS B. THE STAIR TOPPINGS SHA C. THE GC. SHALL PREPARE CONCRETE TO ACHIEVE / D. THE TOPPING SLAB SHALL TO ANY BRICK REMOVAL,

COLLEGE MAY ELECT THE FOLLOWING ALTERNATES:

CONTRACTOR SUBMITTALS

- 1. RAILING SHOP DRAWINGS.
- 2. STAIR TOPPING SLAB DRAWINGS IDENTIFYING A. FIELD MEASURED EXISTING CONCRETE STRUCTURE:
- 4. ALL MASONRY PRODUCTS MANUF. CUT SHEETS.
- 6. MOCKUPS REQUIRED BY SPECIFICATIONS.
 - CONSTRUCTION SCHEDULE.

CONDUCT ONLY ONE (1) NORTH STAIR & ONE (1) SOUTH STAIR RESTORATION AT A TIME.

DETOUR FOOT & VEHICULAR TRAFFIC AWAY FROM WORK ZONES.

• SUBMIT A SAFETY PLAN TO CAPITAL PLANNING FOR APPROVAL ON WORK STAGING AND PEDESTRIAN & VEHICULAR DETOURING.

GC. SHALL INSTALL TEMPORARY WOOD RAILINGS WITH PLYWOOD BARRIERS TO RE-OPEN THE STAIRS UNTIL FINAL RAILINGS ARE COMPLETED.

I. AT THE NORTHWEST PAC STAIR & SOUTHWEST PAC STAIR: REMOVE EXISTING STONE TREADS AND RISERS FROM EXTERIOR STAIRS DOWN TO THE CONCRETE STAIR STRUCTURE BELOW (NOTE: EXISTING STAIR TREADS AND RISERS DOWN TO THE STAIR STRUCTURE HAVE ALREADY BEEN REMOVED EXCEPT

AT THE CONCOURSE LEVEL, SAWCUT AND REMOVE CONCRETE SIDEWALK FOR THE BRICK RESTORATION WORK.

AT THE TOP OF THE PAC STAIRS (AT THE PLAZA LEVELS), REMOVE EXISTING ROOFING, CONCRETE TO EXTENT SHOWN FOR THE STAIR WORK. 5. AT THE BRICK WALLS REMOVE THE COPING STONES & EXISTING GUARD RAILINGS TO EXTENT SHOWN.

. AT PAC STAIRS, REMOVE EXISTING LIGHT FIXTURES, CONDUITS ETC., AND CAP OFF CONDUITS AT LOCATIONS SHOWN.

8. AT WESTERLY FACES OF THE NORTHWEST & SOUTHWEST PAC STAIRS. POWER WASH THE EXISTING BRICK TO EXTENT SHOWN. AND INSTALL HELICAL TIES 9. AT THE EXISTING COPINGS AND GUARDRAILS TO REMAIN IN PLACE, GC SHALL TAKE PRECAUTIONS TO PROTECT THESE EXISTING INSTALLATIONS FROM

IALLS ABUTTING PAC STAIRS

GS FOR REPLACEMENT; DNES AND STACK FOR REINSTALLATION, EXCEPT AT LOCATIONS OF STAINLESS STEEL TOP RAILINGS; BRICK FOR REPLACEMENT AS SHOWN IN ELEVATIONS NCRETE STAIR WALLS AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. S5. CALL FOR PRE & POST

PER SECTIONS #1 THRU #6, DWG. S5: LS – PROVIDE CONTINUOUS STAINLESS STEEL (S.S.) FLASHINGS AT BASE OF THE WALLS AT 6" MIN. ABOVE GRADE; LS – PROVIDE STEP FLASHINGS AT 6" MIN. ABOVE STEPS, AND 6" ABOVE LANDINGS;

ASHINGS TIE BACKS AS PER SECTION 2/S5;

LL FLASHINGS PER SECTION 3/S5; ABOVE ALL FLASHINGS PER SECTION 3/S5;

VIDE VERTICAL CONTROL JOINTS, PER SECTION 5/S5;

AS PER SECTION 6/S5;

IG STONES, COLLEGE TO SUPPLY STONE; FLASHINGS, FILL CAVITY JOINTS SOLID WITH MORTAR;

INTS AS PER TYPICAL DETAILS; NCRETE STAIR WALLS AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. S6; & SOUTHWEST STAIRS, RECONSTRUCT 165 SF OF BRICK VENEER AS PER SECTIONS 1-6/S5.

<u>G WALLS ABUTTING PAC STAIRS</u> IT, JUNCTURE BOXES, & LIGHT FIXTURES AND PATCH WALLS; ILINGS AND PATCH THE WALLS; IALLS AS PER TYPICAL DETAILS, DWG. S6.

GS & AT BOTH SIDES OF STAIRS & GUARD RAILINGS. EXISTING WOOD HAND RAILINGS, PATCH THE WALLS;

CONDITIONS; G OF THE STAINLESS STEEL, WALL MOUNTED, TUBULAR PIPE HAND RAILS & GUARD RAILINGS (REFER TO DWGS. S1–S4,

RAILINGS AND GUARD RAILINGS AFTER THE STAIR TOPPING SLAB FINISHES ARE COMPLETED.

TO WALLS & STAIR CONCRETE AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. S6.

PER SECTION 16/S7). PRIOR TO REMOVING 16" OF BRICK VENEER FROM TOP OF CONC. STAIR STRUCTURE AS SHOWN IN N C/S4. INSTALL HELI-TIES

CONCRETE TOPPING SLAB OVER THE EXISTING STAIR STRUCTURES AT FOUR (4) PAC STAIRS (REF. TO DWGS. S1 THRU

SHALL BE CAST SUCH THAT EACH STAIR SHALL HAVE UNIFORM DEPTH TREADS AND UNIFORM HEIGHT RISERS. ALL BE INSTALLED PRIOR TO THE GC. PREPARATION OF THE HAND RAILINGS SHOP DRAWINGS. SHOP DRAWING OF THE STAIR SHOWING THE EXISTING FIELD MEASURED STAIR STRUCTURE AND REQUIRED TOPPING A UNIFORM RISER & TREADS FROM TOP TO BOTTOM OF EACH STAIR. _ EXTEND THE FULL WIDTH OF THE EXISTING ADJACENT WALLS (NOTE: HELI-TIES DRILLED AND GROUTED IN PLACE PRIOR AS PER NOTE #5).

I. SUPPLY AND INSTALL RECTANGULAR STEP SURFACE MOUNTED STEP LIGHT FIXTURE MOUNTED 30" ABOVE STAIR LEVEL SHALL BE WINONA "RECTANGULAR SURFACE MOUNT STEP LIGHTING – STEP11 WLRECT L LST1A 700MA WHT30K MVOLT BSS". FOR STEP LIGHT LOCATIONS, REFER TO STAIR PLANS.

2. FOR ELECTRICAL INFORMATION REFER TO SHEET E1 & SPECIFICATIONS.

1. ALTERNATE #1 – TO ADD STEP MOUNT LIGHT FIXTURES ON BOTH SIDES OF THE STAIRS.

B. CONCRETE THICKNESS AND HEIGHTS NEEDED TO ACHIEVE UNIFORM RISER HEIGHTS AND TREAD DEPTHS, C. FIELD MEASURED WIDTH OF THE NEW TOPPING SLABS (MEASURED FROM CONCRETE WALL TO CONC. WALL).

3. CONCRETE MIX DESIGN IN ACCORDANCE W/ SPECIFICATIONS.

5. MANUFACTURER CUT SHEETS & SAMPLES WHERE REQUIRED BY SPECIFICATIONS.

7. SITE SAFETY PLAN INCLUDE: CONES AROUND WORKER AREAS: CLOSE THE SIDEWALK: NO HURLING OF DEBRIS FROM SIDEWALK; PARKING AS DIRECTED BY COLLEGE; PERSONNEL REQUIREMENTS SUCH AS NO SMOKING ON CAMPUS, OSHA COMPLIANCE FOR PERSONAL SAFETY – HARD HAT, SAFETY VESTS, EYE WEAR, DUST MASK, HARD SOLED SHOES, AND SUCH FORTH. NO TRASH SHALL BE THROWN BY WORKERS, ETC); NOTIFY CAMPUS POLICE OF

STATEMENT OF SPECIAL INSPECTIONS

CONCRETE CONSTRUCTION 1. Inspection of reinforcing steel size, spacing and plac

- 2. Inspection of formwork for shape, location and dime of concrete member being formed.
- 3. Verify use of required design mix and/or specified
- concrete mix. 4. At time fresh concrete is sampled to fabricate spec for strength tests, perform slump and air content te
- determine temperature of concrete. 5. Inspection of concrete placement for proper placement
- techniques. 6. Inspection of maintenance of specified curing tempe

and techniques.

- SONRY CONSTRUCTION 1. From the beginning of masonry construction verify: a. Proportions of site-prepared mortar. b. Placement of masonry units and construction of c. Placement of connectors and anchorages.
- 2. The Inspection Program shall verify:
- a. Size and location of structural elements. b. Type, size and location of anchors, including othe of anchorage of masonry to structural members,
- other construction c. Protection of masonry during cold weather (temp below 40°F) or hot weather (temperature above
- 3. Compliance with required inspection provisions of the Construction Documents and the approved submittal be verified.

LIST OF STRUCTURAL SPECIAL INSPECTION ITEMS

- 1. Concrete Cast-In-Place
- 2. Masonry
- 3. Concrete Test Cylinders
- 4. Concrete Design Mix

MAJOR ITEMS - BASE BID QUANTITIES

MAJOR ITEMS (FOR BID ESTIMATING PURPC

BRICK VENEER REPLACEMENT*

BRICK VENEER ON STAIR WALLS (QUANTITIES OF TOTAL REMOVAL & REQUIRED BRICK TYPE TO MATCH CITL'S BRICK: BELDEN BRICK'S BELDEN BRICK PRODUCT TYPE: 50/50 BLEND OF EBONY-SIENA MOD BELDEN'S NO. OF BRICKS PER SF = 6.86 BRICKS/SF BELDEN'S NO. OF BRICKS PER CUBE (PALLET) = 500 BRICKS/CUB NO. OF BRICK CUBES = 6,380 SF X 6.86 BRICKS/SF / 500 BRICK NO. OF CUBES ON BELDEN'S FLAT BED TRUCKS = 24 CUBES/FLAT NO. OF FLAT BED TRUCKS W/ 24 CUBES/FLATBED = 87.5 CUBES/ ROUND UP TO FOUR (4) FLAT BEDS - 24 CUBES (SEE NOTE D). CONTRACTOR TO PROVIDE THEIR OWN FORK LIFT TO OFFLOAD FROM ANY LEFT OVER MATERIALS TO BE RELOCATED TO THE COLLEGE'S

*<u>NOTES</u>:

PRICE INCLUDES ALL COSTS & WORK ASSOCIATED WITH THE

INCLUDING ALL INSERTS, REMOVAL & DISPOSAL OF EXISTING 1.10 MULTIPLIER IS FOR WASTE ALLOWANCE.

- C. ANY LEFT OVER BRICK IS TO BE RELOCATED TO FACILITIES
- D. ORDER FOUR (4) FLAT BEDS, TO INCLUDE BRICK REPI

REMOVAL & DISPOSAL OF EXISTING STAIR TREADS, RISERS (AT NORTHEAST & SOUTHWEST STAIRS ONLY)

NEW CAST-IN-PLACE CONCRETE STAIR TREADS, RISERS & TOP & & BOTTO 2781 SF (PLAN-AREA FOOT PRINT) 11.10 (ANGLE) X 1.10 (WASTE)= 3365

BRICK CONTROL JOINTS - VERTICAL JOINTS ON OUTSIDE STAIR WALLS

COPING STONES ON STAIR WALLS: 1. REMOVE, STOCKPILE, AND RESET GRANITE COPINGS

HAND RAILINGS

1. NEW STAINLESS STEEL HAND RAILS, POSTS & BRACKETS NEW STAINLESS GUARD RAILS

3. REMOVE EXISTING AND REPLACE GUARDS

CONCRETE PATCHING REPAIRS (BASE BID) VERTICAL & OVERHEAD CONCRETE SPALL REPAIRS

2. HORIZONTAL CONCRETE SPALL REPAIRS

BRICK VENEER REPAIRS AT THE WEST FACE OF NORTHEAST & NORTHWEST

- CONDUCT BRICK REPAIRS AS REQUIRED POWER WASHING EXTERIOR BRICK WALLS
- 2. REMOVE & REPLACE BRICK WITH NEW BRICK VENEER (FOR BID ESTIN NO. OF BRICK CUBES = 520 SF X 6.86 BRICKS/SF / 500 BRICKS TOTAL NO. OF CUBES = 87.5 CUBES (SEE ABOVE) + 7.13 X 1.10 TOTAL NO. OF FLAT BED TRUCKS = 95.3 CUBES/24 CUBES PER F
- 3. REPOINT BRICK VENEER & CONDUCT CRACK REPLACEMENT (FOR BID

PLAZA ROOFING RESTORATION (AT TOP OF THE STAIRS X 4 STAIRS)

HELI-TIE INSTALLATION (SOUTHWEST & NORTHWEST BUILDING WALLS)

DETECTABLE WARNING INSERTS (TOP LANDING): 4 X 3' X 10'

LIGHTING (ALLOWANCES)

1. STEP MOUNTS: 7 PER STAIR (ONE SIDE) X 3 STAIRS (BASE BID) (EXCLUDING SOUTHEAST PAC STAIR, WHERE EXISTING FIXTURES ARE

ALTERNATE BI

ALTERNATE PRICING

1. ALTERNATE #1 - S.S. CENTER RAILINS ON ALL FOUR (4) STAIRS, TO

2, ALTERNATE #2 – ADDITIONAL STEP MOUNT LIGHT FIXTURES ALL ASSOC INSTALL STEP MOUNT LIGHT FIXTURES ON OPPOSITE OF FOUR (4) PAC STAIRS

NOTE: TO CONTRACTOR TO VERIFY QUANTITIES

*NOTE: THE ABOVE MAJOR BID ITEMS QUANTITIES ARE PROVIDED TO BIDDERS AS GUIDE ONLY. THE CONTRACTOR IS ESTIMATING THE PROJECT, AND ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL QUANTITIES.

	INSPECTION DURATION
cement.	Periodic
ensions	Periodic
pre-packed	Periodic
cimens ests and	Continuous
ent	Continuous
erature	Periodic
mortar	Periodic Periodic
	Periodic
er details frames or	Periodic Continuous
perature 90°F).	Periodic
e s shall	Periodic

DESIGN LO	DADS	
ALLOWABLE SOIL BEARING	CAPACITY:	1.0 Tons per sf
<u>EXTERIOR STAIR DESIGN LO</u> DEAD LOAD (SLAB ON LIVE LOAD SNOW LOAD – FLAT I SNOW LOAD – DRIFT: WIND ZONE (33' ABV	DADS I GRADE) ROOF: PER ASCE 7–15 PER ASCE 7–10 GROUND, 3 SEC. GUST)	138.0 psf 100.0 psf 30.0 psf 90.0 psf 100 mph
<u>RAILING</u> <u>HAND RAIL</u> LOAD CASE 1: LOAD CASE 2: NOTE: LOAD CAS <u>COMPONENTS:</u> 50.0 LBS. ON A AND SPACES BE	50.0 PLF, IN ANY DI 200.0 LBS., IN ANY ES 1 AND 2 DO NOT ACT 1'—0" x 1'—0" AREA, INC TWEEN COMPONENTS	RECTION DIRECTION CONCURRENTLY. SLUDING OPENINGS
N2 – NOTES & SPECIFICATIONS SHEET S1 – NORTHWEST PAC STAIR RESTORATI S2 – NORTHEAST PAC STAIR RESTORATI S3 – SOUTHWEST PAC STAIR RESTORATI S4 – STAIR RESTORATION DETAILS, SHEE S5 – STAIR RESTORATION DETAILS, SHEE S6 – STAIR RESTORATION DETAILS, SHEE E1 – PAC STAIR RESTORATION LIGHTING	2 OF 2 ON PLANS & ELEVATIONS ON PLANS & ELEVATIONS ON PLANS & ELEVATIONS ET 1 OF 3 ET 2 OF 3 ET 3 OF 3 PLANS & DETAILS	it as an instrument of service
	is the property of the Engineer a or reproduced without the conse PURCI COLL STATE UNIVERSITY Office of Capital Facil 735 Anderson Hill Road, Purcha	The and may not be loaned copie ent of the Engineer. The Engineer EGE OF NEW YORK ities Planning ase New York 10577-1400
	ENGINEER OF RECORD - ST GRIGG & DAVIS Certified Women 21 Crossway - Scars O: (914) 72 URL: gdeng E: gdengineers@	ENGINEERS, PC Owned Business sdale, NY 10583 25-5095 ineers.net optonline.net
	ELECTRICAL EN COLLADO EN Certified Minority B 455 Hamilton Av White Plains, O: (914) 332-76 URL: collado E: dcamporese@co KEY PLAN	GINEERS GINEERING usiness Enterprise re., Suite 608 NY 10601 558, ext 108 o-eng.com ollado-eng.com

DSES):	CUMULATIVE AREAS
REPLACEMENT) = 5800	<u>X 1.10</u> ≈ 6,380 SF
DULAR BRICK	
E KS/CUBE = 87.5 CUBES BED TRUCK 24 CUBES/FLAT BED TRU	CK = 3.7
I BELDEN'S FLAT BED ACILITY MAINTENANCE YARI	D BY THE GC
FURNISHING & INSTALLIN BRICK;	G NEW BRICK VENEER,
STORAGE YARDS AS DIREC PLACMENTS AT NORTHWEST	TED BY COLLEGE. AND NORTHEAST STAIR'S WESTERLY I
	1,500 SF
<u>DM LANDINGS</u> 5 SF (ROUND UP 3400 SI	F) 3,400 SF
	110 LF
	400 SF
	600 LF 140 LF 40 LF
	400 SF 500 SF
PAC STAIRS	
IMATING PURPOSES) S/CUBE/= 7.13 CUBES (WASTE) = 95.3 CUBES	1,600 SF 520 SF
LAT BED = 397 D ESTIMATING PURPOSES)	1,072 SF
	320 SF
	210 TIES
	120 SF
INSTALLED)	21 FIXTURES
ID ITEMS	
MATCH WALL MOUNTED RA	LINGS EXCEPT, POST SUPPORTED.
<u>CIATED W, INCLUDING ALL</u> C STAIRS	ASSOCIATED ELEC. WORK: 28 FIXTURES



STRUCTURAL CONCRETE

- 1. All stone concrete for exterior concrete exposed to deicing chemicals shall: a) Have an air content of 6%. The tolerance for air content of
 - concrete, as delivered, shall be $\pm 1.5\%$.
 - b) Have a maximum water-cement ratio of 0.4.
 - c) Have a minimum 28-Day Compressive Strength of 5,000 psi. d) Have a maximum slump of 5".
 - e) Fiber content: polypropylene plastic fibers dosed at 1.5 lbs/cubic foot (0.1%
 - by volume) for purposes of controlling plastic shrinkage cracking.
 - f) Maximum Aggregate Size: 3/4". q) Stairway concrete shall be tinted Mocho-brown (ref. specifications).
- 2. All stone concrete shall be made from the following materials:
 - a) Portland Cement All cement shall satisfy the requirements of ASTM C150-18 "Standard Specification for Portland Cement", Type I. b) Aggregate
 - All fine and coarse aggregate shall satisfy the requirements of ASTM C33-16e1 "Standard Specification for Concrete Aggregates".
 - c) Water All water shall satisfy the requirements of ASTM C1602-12 "Standard Specification for Mixing Water Used in the Production of Hydraulic Cement <u>Concrete"</u>
 - d) Admixtures Air — Entraining
 - Air Entraining admixtures shall satisfy the requirements of ASTM C260-10a(2016) "Standard Specification for Air-Entraining Admixtures <u>for Concrete"</u>.
 - Water Reducing, Retarding, Accelerating, Reducing and Retarding, Reducing and Accelerating
 - Water Reducing, Retarding, Accelerating, Reducing and Retarding, Reducing and Accelerating admixtures shall satisfy the requirements of ASTM C494-17 "Standard Specification for Chemical
 - Admixtures for Concrete' Plasticizing, Plasticizing and Retarding
 - Plasticizing and Plasticizing and Retarding admixtures shall satisfy the requirements of ASTM C1017-13e1 "Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete".
- 3. The Contractor shall submit the following:
 - a) Concrete Mix Proportions for each type of concrete to be used. No concrete shall be placed until the Concrete Mix Proportions are "Approved" or "Approved as Noted" by the Structural Engineer. The selection of concrete mix proportions shall satisfy the requirements of ACI 318-11 "Building Code Requirements for Structural Concrete", Section 5.3.
 - b) Shop Drawings for each level of the structure indicating the size, location, and reinforcement for each concrete member, and the location of all control joints and expansion joints.
 - c) Procedure to be followed for Cold Weather concreting.
- Concrete shall not be placed until:
 - a) The form work has been completed, adjusted into final position, cleaned of all debris, snow, and ice, and coated with a form release agent. b) All reinforcement, expansion joint material, waterstops, and other embedded
 - items have been placed and secured to prevent displacement during concrete placement.
 - c) All concrete construction joints have been properly prepared.
 - d) All standing water has been removed.
 - e) All surfaces exposed to freezing temperatures to come in contact with the fresh concrete have been heated for 12 hours prior to concrete placement to remove all frost.
- Concrete shall be placed in a manner which prevents segregation and as quickly as practicable so that the concrete already placed is still plastic.
- Concrete shall be consolidated so that it is thoroughly worked around the reinforcement, embedded items, and into the corners of the forms. Consolidation shall be by vibration if the slump is equal to or less than 4 - in and by spading, rodding, or forking if the slump is greater than 4 - in.
- 7. Concrete shall be protected from premature drying by the application of continuous mist spray, absorptive mats kept continuously wet, moisture retaining coverings, etc. for c period of 7 days. If High Early Strength concrete is provided the period need only be 3 davs.
- 8. The surface temperature of concrete shall be controlled when the air temperature is, or is expected to be, below 40°F. The Minimum Concrete Temperature as placed and maintained shall be as follows: Minimum Concrete Temperature °F

Least Dimension	Minimum Concrete Temperature,
of Member, in.	as placed and maintained
< 12	55
12 — 36	50
36 - 72	45
> 72	40
The control of the surface temp	perature of concrete shall consist of:

a) If the air temperature is, or is expected to be, between 33°F and 40°F use weatherproof insulating blankets.

b) If the air temperature is, or is expected to be, below 33°F enclose and heat the work area. Heat shall be well distributed but not allowed to dry the concrete surface.

The control of the surface temperature of concrete shall be continued for a period of 7 days. If High Early Strength concrete is provided the period need only be 3 days. At the conclusion of the control of the surface temperature the concrete shall be allowed to cool gradually. When the surface temperature is within 25°F of the air temperature all protection shall be removed.

9. Reinforcement shall satisfy the following:

a) Epoxy-coated Reinforcing Bars All epoxy-coated reinforcing bars shall satisfy the requirements of ASTM A775-07b "Standard Specification for Epoxy-Coated Steel

- <u>Reinforing Bars"</u>. b) Epoxy Coated Welded Plain Wire Reinforcement
- All welded plain wire reinforcement shall be plain and shall satisfy the requirements of ASTM A884/A884M - 14
- "Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement."
- 10. All reinforcement shall be bent cold. At the time of placement all reinforcement shall be free of dirt, mud, oil, or any other substance that may reduce the concrete bond. Minor dust and mill scale need not be removed.
- 11. All reinforcement shall be placed to provide the following minimum concrete cover: a) concrete cast against earth 3 in. b) concrete exposed to earth or weather #6 through #18 bar 2 in. #5 bar and W31 wire and smaller $1\frac{1}{2}$ in. c) concrete not exposed to earth or weather
- 3∕₄ in. slabs, walls, joist beams, columns $1\frac{1}{2}$ in. 12. Begin saw cutting the Saw Cut Contraction Joints (S.C.C.J.) as soon as concrete is hard
- enough that the sawing does not ravel the joint edges or dislodge the coarse aggregate, or 6 hours max. after concrete placement. Provide sufficient number of saws and men so that all required saw cutting can be completed within 4 hours after beginning saw cutting. Do not overcut at end of S.C.C.J.
- 13. The Owner shall retain a Testing Laboratory to conduct field testing of concrete and to prepare Field Test Reports. A Field Test Report shall be prepared for each concrete sample taken and shall include a description of the area in the structure where the concrete was placed and the results of slump, air content, temperature, and compressive strength tests. Each Report shall be signed and sealed by a Licensed Professional Engineer is the State where the work is performed. Concrete samples shall be taken of each concrete truck poured. A concrete sample shall consist of six 6" x 12" cylinders at 7-Days and 28-Days. A compression strength test shall be performed and average of the strengths of three cylinders made from the same concrete sample.
- 14. The Owner shall retain a Testing Laboratory to perform the Special Inspection of concrete. 15. The balance of requirements, refer to 03300 Cast-in-Place Specifications.

MASONRY

- 1. All masonry shall have a minimum compressive strength of 1,500 psi, U.O.N.
 - BRICK MANUF. & DESCRIPTION: BELDEN PREBLENDED PALLETS: BELDEN PREBLENDED PALLETS: BELDEN'S 50% EBONY / 50 % SIENNA BLEND (OR EQUAL) MODULAR (500 BRICKS PER PALLET) CONTACT: BELDEN TRI-STATE BUILDING MATERIALS
 - BELDEN BRICK 50/50 PREBLENDED BRICK IN EBONY/DARK BROWN REQUIREMENTS: • FACE BRICK/HOLLOWBRICK;
 - SIZE: MODULAR; EXTRUDED BRICK;
 - GRADE: SW;
 - TEXTURE: GRAIN; NO GLAZED COATINGS (WHICH WILL CHIP OFF);
 - SUPPLIER MUST HAVE ASTM C62/C216 TEST REPORTS;

MORTAR MIX: SPEC-MIX - PACKAGE PAVEMENT TYPE N (LIMESTONE COLOR), CONTACT EXTECH - LONG ÍSLAND CITY, QUEENS, NY

FOR MASONRY ACCESSORIES,

CAULK COLOR TO BE DETERMINED: MASTERSEAL "NP1' OR SIKA "15LM"

- 3. Provide masonry anchors as specified in the Sections and Details. REF. Contract Drawing: S4/

soilina

- 5. Construct masonry units in lifts in running bond pattern. Masonry shall be constructed masonry is properly braced by floor or roof construction.
- Wetting of masonry units prior to placement shall be as follows: a) Clay Masonry Units

 - b) Concrete Masonry Units
- course of each lift of masonry construction as follows: a) at each cell to be grouted. b) at 32 - in. spacing for collar joints to be grouted.
- 8. Bed and head Joints shall be 3/8 in. thick unless otherwise noted on the Contract Documents except the bed joint for the starting course over a foundation shall not be less than 1/4 – in. thick and not more than 3/4 – in. thick. The bed and head joints for solid masonry units shall be fully mortared.
- - A) Preparation: a. Maintain sand piles in a damp. loose condition.
 - having a temperature below 120°F. B) Construction
 - they come in contact with mortar ingredients or mortar. c. Maintain mortar consistency by retempering with cool water.
 - d. Use mortar within two hours of initial mixing.
 - C) Protection a. Keep surfaces of newly constructed masonry damp by applying a fog spray at least
 - spray do not saturate the surface.
- procedures shall be implemented. A) Preparation:

 - B) Construction
 - to above 140°F.

 - c. When the ambient air temperature is between below 25°F to 20°F:

 - when the wind velocity exceeds 15 mph.
 - d. When the ambient air temperature is below 20°F:
 - air temperature above 32°F within the enclosure.
 - C) Protection
 - hours after completion.
 - c. When the ambient air temperature is between below 20°F: for grouted masonry.
- retooled.

2. All brick veneer replacement shall meet the following criterias:

BELDEN BRICK 50/50 PREBLENDED BRICK IN EBONY/DARK BROWN;

4. Masonry units shall be stored off the ground and shall be protected from wetting and

plumb and true to line with level courses built to height and thickness, specified. Masonry units shall be clean and without cracks, badly chipped or broken edges, ice, or frost when placed. Masonry units shall be placed and adjusted into final position in mortar which is soft and plastic. Any unit that is disturbed after the mortar has stiffened shall be removed and re-laid with fresh mortar. Align vertical cells to be grouted and remove mortar protrusions extending more than 1/2 – in. into the cell. Keep the top of unfinished masonry construction covered with a waterproof covering when work is not in progress. Protect sills, ledges, and offsets from mortar droppings. Remove all misplaced mortar and grout immediately and clean the area. Provide temporary bracing to resist horizontal loads until

Clay masonry units with an Initial Rate of Absorption in excess of 1 gram per minute per in.² shall be wetted so that the Initial Rate of Absorption does not exceed 1 gram per minute per in.² when the unit is placed in mortar. After wetting the surfaces of the unit shall be allowed to dry before the unit is placed.

Concrete masonry units shall not be wetted before placement.

7. Provide cleanouts for masonry construction to be grouted. Cleanouts shall have a minimum area of 12 - sq. in. and a minimum dimension of 3 - in. Provide cleanouts in the bottom

9. Hot weather construction. When the ambient air temperature exceeds 100°F or 90°F with a wind velocity greater than 8 mph the following procedures shall be implemented.

b. Provide the necessary conditions and equipment to produce mortar and grout

a. Maintain the temperature of the mortar and grout below 120°F until placed. b. Flush mixer, mortar transport container, and mortar boards with cool water before

three times a day until the masonry is three days old. When applying the fog

10. Cold weather construction. When the ambient air temperature is below 40°F the following

a. The temperature of the masonry units shall be kept above 20°F. The masonry units shall not contain frozen moisture and there shall be no visible ice, or snow on the

b. Remove visible ice and snow from the surface to receive new construction and heat the surface to above 32°F using methods that do not result in damage.

a. When the ambient air temperature is between below 40°F to 32°F: Heat the sand or mixing water to produce a mortar temperature between 40°F and 120°F at the time of mixing. Grout does not require heated materials unless the temperature of the materials is less than 32°F. Do not heat water or aggregates

b. When the ambient air temperature is between below 32°F to 25°F:

Heat the sand and mixing water to produce a mortar temperature between 40°F and 120°F at the time of mixing. Maintain mortar temperature above 32°F until used. Heat the grout aggregates and mixing water to produce a grout temperature between 70°F and 120°F at the time of mixing. Maintain grout temperature above 70°F at the time of placement. Do not heat water or aggregates to above 140°F.

Heat the sand and mixing water to produce a mortar temperature between 40°F and 120°F at the time of mixing. Maintain mortar temperature above 32°F until used. Heat the grout aggregates and mixing water to produce a grout temperature between 70°F and 120°F at the time of mixing. Maintain grout temperature above 70°F at the time of placement. Do not heat water or aggregates to above 140°F. Heat masonry surfaces under construction to 40°F and use wind breaks or enclosures

Heat masonry to a minimum of 40°F prior to grout placement.

Heat the sand and mixing water to produce a mortar temperature between 40°F and 120°F at the time of mixing. Maintain mortar temperature above 32°F until used. Heat the grout aggregates and mixing water to produce a grout temperature between 70°F and 120°F at the time of mixing. Maintain grout temperature above 70°F at the time of placement. Do not heat water or aggregates to above 140°F. Heat masonry surfaces under construction to 40°F. Heat masonry to a minimum of 40°F prior to grout placement. Provide an enclosure and auxiliary heat to maintain the

a. When the ambient air temperature is between below 40°F to 25°F: Cover newly constructed masonry completely with a weather-resistive membrane for 24

b. When the ambient air temperature is between below 25°F to 20°F: Cover newly constructed masonry completely with weather-resistive insulating blankets for 24 hours after completion. Extend time to 48 hours for arouted masonry.

Maintain temperature of newly constructed masonry above 32°F for 24 hours by using heated enclosures, electric heated blankets, or infared lamps. Extend time to 48 hours

11. Mortar joints shall be tooled after the mortar has stiffened enough to resist the pressure of a thumb. The jointer for tooling shall form a concave joint. The jointer shall be held at a small angle to the wall so that the mortar is compacted in the joint and not raked out. All mortar burrs formed by tooling shall be brushed or cut off flush with the wall surface. Joints which are not tight when tooled shall be raked out, pointed with fresh mortar, and

MASONRY (Cont.)

- 12. Mortar shall be Type N and shall satisfy the requirements of ASTM C270-14a "Standard Specification for Mortar for Unit Masonry", Proportion Specifications. Mortar shall be mixed in a mechanical mixer, hand mixing shall not be permitted. Mix all cementitious materials and aggregate for five minutes after the amount of water required to produce the desired workability is added. Mortar shall not stand more than one hour without remixing and shall be used within 2 1/2 hours after mixing. Mortar which has stiffened on the mortar board may be retempered by adding water within a basin formed by the mortar and reworking the mortar into the water. Splashing water over the mortar shall not be permitted.
- 13. Fine grout shall satisfy the requirements of ASTM C476-16 "Standard Specification for Grout for Masonry". Grout shall be mixed in mechanical mixer, hand mixing shall not be permitted. Mix all cementitious materials and aggregate for five minutes after the amount of water required to produce the desired workability is added. Grout shall be placed before initial set and within 1 1/2 hours after mixing. Grout shall be placed in a manner which prevents segregation.
- 14. Before placing grout:
 - a) Set all reinforcing steel, anchors, ties, and metal accessories in their proper position and secure against displacement. b) Remove all mortar droppings and debris from cleanouts.
 - c) Close cleanouts and brace closure to resisit grout fluid pressure.
- 15. Confine grout to the area required by using metal lath, mortar, or special masonry units. Do not use material which will inhibit bond or is combustible. Do not allow grout to cross a control joint or expansion joint.
- 19. At the time of placement all reinforcement shall be free of dirt, mud, oil, or any other substance that may reduce the masonry bond. Minor dust and mill scale need not be removed. Vertical bars shall be held in place at intervals not exceeding 8 ft. for #4 bar and 10 ft. for #5 to #11 bar. Bending or straightening of reinforement partially embedded in masonry shall not be permitted.
- 20. Prefabricated joint reinforcement shall be as noted on the Drawings. The wire size shall not exceed 1/2 the mortar joint thickness. The out - to - out spacing of the longitudinal wires shall not be larger than the nominal width of the wall minus 2 - in. All prefabricated joiint reinforcement shall be galvanized to satisfy the requirements of ASTM A153-16a Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware", Class B-2.
- 21. Prefabricated joint reinforcement shall be placed so that the longitudinal wires are enbedded in the face - shell mortar beds and located at least 1/2 - in. from the face except, locate at least 5/8 – in. from the face when exposed to earth or weather. Lap ends of prefabricated joint reinforcement 6 -in. min. At wall corners and intersections provide specially formed prefabricated joint reinforcement. At the time of placement prefabricated joint reinforcement shall be free of dirt, mud, oil, or any othe substance that may reduce the masonry bond. Minor dust need not be removed.
- 23. Masonry construction shall satisfy the Level A B C Quality Assurance Program requirements of the Building Code Requirements and Specification for Masonry Structures", TMS 402/602-16.
- 24. Controlled Inspection of masonry is not required. This Building is in Occupancy Group J-3.
- 24. Controlled Inspection of masonry is not required. Less that 50.0 cu. yds. of masonry are to be placed and the stress is less than 70% of the allowable stress.
- 24. The Owner shall retain a Testing Laboratory to perform the Special Inspection of masonry.

EXPANSION JOINT CAULKING

- RECAULK THE EXISTING EXPANSION JOINTS USING "BASF SONNEBORN SONOLASTIC "NP1" ELASTOMERIC POLYURETHANE SEALANT (ONE-COMPONENT, NONPRIMING) OR EQUAL AS APPROVED BY ENGINEER OF RECORD & PURCHASE COLLEGE. • THE COLOR OF THE SEALANT SHALL MATCH THE EXISTING CONDITIONS, AS APPROVED BY THE ENGINEER. CONTRACTOR TO
- PROVIDE BACKER RODS AS NEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. • FOR ADDITIONAL APPROVED SEALANT SUPPLIERS, REFER TO SPECIFICATIONS.
- A MOCKUP OF THE EXPANSION JOINT SHALL BE PERFORMED TO ASSESS WHETHER NP1 IS BEST SUITED FOR THE EXISTING CONDITIONS OR ANOTHER PRODUCT.

STAIRS & RAILINGS NOTES:

<u>RAILINGS & GUARD RAILS</u>

- ALL STAINLESS STEEL (S.S.) TO BE 316, #4 BRUSHED FINISH
- SEAL ALL AROUND PENETRATIONS TO ENSURE WATERTIGHTNESS OF WATERPROOFING MEMBRANE. 3. ALL TUBULAR HAND RAILINGS & TUBULAR GUARD RAILINGS SHALL BE CONSTRUCTED FROM SEAMLESS PIPING, AND HAVE WELDED, MITERED JOINTS.
- 4. ALL BRACKETS SHALL HAVE EPOXY ANCHORS.
- 5. FOR RAILING & GUARD RAILING GAUGES, DIAMETERS, BOLTING INFORMATION, REFER TO DWG. S7.

<u>TREADS & RISERS</u>

- RISER HEIGHTS SHALL BE UNIFORM FOR EACH SECTION OF STEPS; •
- TREAD WIDTHS SHALL BE UNIFORM FOR EACH SECTION OF STAIRS: • NOSINGS SHALL BE 1" (MAXIMUM):
- THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". <u>TREAD</u> PROFILE
- THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL NOT BE GREATER THAN 1/2"
- BEVELING OF NOSINGS SHALL NOT EXCEED 1/2". • RISERS SHALL BE VERTICAL OR SLOPED FROM THE UNDERSIDE OF THE LEADING EDGE OF THE TREAD NOT MORE THAN
- 30 DEGREES FROM VERTICAL. • THE GREATEST NOSING PROJECTION SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".
- NOSINGS SHALL BE 1" (MAX). •

HANDRAILS

- A HANDRAILS ARE REQUIRED ON BOTH SIDES OF THE STAIRWAYS.
- HANDRAIL HEIGHTS SHALL BE MIN. OF 2'-10" AND MAXIMUM OF 3'-2" MEASURED FROM THE NOSINGS OF THE TREAD. • • THE HANDGRIP PORTION OF HANDRAILS SHALL HAVE A 1 1/2" DIAMETER CIRCULAR CROSS SECTION.
- HANDRAILS SHALL BE A MINIMUM OF 1 $\frac{1}{2}$ " FROM ADJACENT WALLS (MIN.).
- GUARDRAILS SHALL BE A MINIMUM OF 42" ABOVE FINI

HANDRAIL EXTENSIONS:

- EXTEND 12" HORIZONTAL DISTANCE PAST THE TOP RISER AND BE PARALLEL TO THE TOP LANDING.
- EXTEND TREAD WIDTH (1'-4") BEYOND THE BOTTOM RISER AT SAME SLOPE OF RAILINGS; • RETURN TO A WALL, GUARD, OR THE WALKING SURFACE OR BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR •
- FLIGHT
- HANDRAIL, GUARDS & GRAB BAR ANCHORAGE:
- STRENGTH AND ATTACHMENT HANDRAILS, GUARDS & GRAB BARS SHALL BE ADEQUATE TO SUPPORT 250 LB. FORCE APPLIED IN ANY DIRECTION
- FOR ADDL. STRENGTH REQUIREMENTS, REFER TO LOAD TABLE.

FOR TYPICAL RAILING DETAILS - REFER TO DWG. S7.

CAULKING SEALANT PREPARATIONS:

1. JOINT PREPARATION:

- THE JOINT SEALANTS SHOULD BE PLACED IN ACCORDANCE WITH SWR INSTITUTE'S SEALANTS THE PROFESSIONAL'S
- OPTIMALLY, THE SEALANT DEPTH SHOULD BE 1/2 THE WIDTH OF THE JOINT.
- THE SEALANT JOINT DEPTH (MEASURED AT THE CENTER) SHOULD ALWAYS FALL BETWEEN THE MAXIMUM DEPTH OF 1/2" AND THE MINIMUM DEPTH OF 1/4".
- IN DEEP JOINTS, THE SEALANT DEPTH MUST BE CONTROLLED BY CLOSED CELL BACKER ROD OR SOFT BACKER ROD.
- WHERE THE JOINT DEPTH DOES NOT PERMIT THE USE OF BACKER ROD. A BOND BREAKER (POLYETHYLENE STRIP) MUST BE USED TO PREVENT THREE-POINT BONDING. TO MAINTAIN THE RECOMMENDED SEALANT DEPTH. INSTALL BACKER ROD BY COMPRESSING AND ROLLING IT INTO THE JOINT CHANNEL WITHOUT STRETCHING IT LENGTHWISE.
- CLOSED CELL BACKER ROD SHOULD BE ABOUT 1/8" (3 MM) LARGER IN DIAMETER THAN THE WIDTH OF THE JOINT TO ALLOW FOR COMPRESSION. SOFT BACKER ROD SHOULD BE APPROXIMATELY 25% LARGER IN DIAMETER THAN THE JOINT WIDTH. THE SEALANT SHALL NOT ADHERE TO IT, AND NO SEPARATE BOND BREAKER IS REQUIRED. DO NOT PRIME OR PUNCTURE THE BACKER-ROD.
- 2. SURFACE PREPARATION: SUBSTRATES MUST BE STRUCTURALLY SOUND, FULLY CURED, DRY, AND CLEAN. SUBSTRATES SHOULD ALWAYS BE FREE OF THE FOLLOWING: DIRT, LOOSE PARTICLES, OIL, GREASE, ASPHALT, TAR, PAINT, WAX, AND RUST, WATERPROOFING OR CURING AND PARTING COMPOUNDS, MEMBRANE MATERIALS, AND SEALANT RESIDUE. CONCRETE, STONE AND OTHER MASONRY CLEAN BY GRINDING, SANDBLASTING, OR WIRE BRUSHING TO EXPOSE A SOUND SURFACE FREE OF CONTAMINATION AND LAITANCE. WOOD NEW AND WEATHERED WOOD MUST BE CLEAN, DRY, AND SOUND. SCRAPE AWAY LOOSE PAINT TO BARE WOOD. ANY COATINGS ON WOOD MUST BE TESTED TO VERIFY ADHESION OF SEALANT OR TO DETERMINE AN APPROPRIATE PRIMER. METAL REMOVE SCALE, RUST AND LOOSE COATINGS FROM METAL TO EXPOSE A BRIGHT WHITE SURFACE. ANY COATINGS ON METAL MUST BE TESTED TO VERIFY ADHESION OF SEALANT OR TO DETERMINE AN APPROPRIATE PRIMER.

DRAWING LIST: N1 – NOTES & SPECIFICATIONS SHEET 1 OF 2 N2 – NOTES & SPECIFICATIONS SHEET 2 OF 2 S1 – NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS S2 – NORTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS S3 – SOUTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS S4 – STAIR RESTORATION DETAILS, SHEET 1 OF 3 S5 – STAIR RESTORATION DETAILS, SHEET 2 OF 3 S6 – STAIR RESTORATION DETAILS, SHEET 3 OF 3 E1 – PAC STAIR RESTORATION LIGHTING PLANS & DETAILS
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PURCHASE COLLEGE STATE UNIVERSITY OF NEW YORK Office of Capital Facilities Planning 735 Anderson Hill Pood Purchase New York 10577 1400
ENGINEER OF RECORD - STRUCTURAL ENGINEER GRIGG & DAVIS ENGINEERS, PC Certified Women Owned Business 21 Crossway - Scarsdale, NY 10583 O: (914) 725-5095 URL: gdengineers.net E: gdengineers@optonline.net
ELECTRICAL ENGINEERS COLLADO ENGINEERING Certified Minority Business Enterprise 455 Hamilton Ave., Suite 608 White Plains, NY 10601 O: (914) 332-7658, ext 108 URL: collado-eng.com E: dcamporese@collado-eng.com
KEY PLAN
Location: Performing Arts Center
Project Name: RESTORATION OF FOUR (4) STAIRS at
PERFORMING ARTS CENTER (PAC)
Project Number:SU-111919Scale:Not Applicable
DATE: 04-12-2021 DRAWING TITLE:
NOTES & SPECIFICATIONS (SHEET 2 OF 2)
DRAWING NUMBER: N2 of 10









MFL – METAL FLASHING TYPE 304 STAINLESS STEEL 26 GAUGE STANDARD BY H&B, SUPPLY SURFACE MOUNTED INSIDE & OUTSIDE CORNERS AS REQD.

BACKER ROD – STANDARD – POLYURETHANE SEALANT

H&B 3/8" X 3" H&B CLOSED CELL_ NEOPRENE SPONGE WITH TEAR STRIP

NOTES:

T2 – FTS (FOAM-TITE SEAL) TERMINATION BAR TYPE 304 STAINLESS STEEL, 26 GAUGE X 1 1/2" X 8' LONG 3/8" FLANGE 1" –1.5" \pm ON TOP FOR CAULKING &1/4" HOLES SPACED 8" O.C. MANUF. BY HOHMANN & BARNARD OR EQUAL.

> 1/4" X 2" POLYMER-COATED, CONCRETE SCREWS AT 8" OC MANUF. BY HOHMANN & BARNARD,

MORTAR TRAP,

SECTION

- 1. KEEP MORTAR OUT OF THE COLLAR JOINT (1" GAP BETW. NEW 4" VENEER & EX'G. REINF. CONC. WALLS);
- NSTALL ANCHORS AS PLACING THE VENEER @ 16" OC, EA. WAY. MFL - METAL FLASHING TYPE 304 STAINLESS STEEL 26 GAUGE STANDARD BY H&B, CONTRACTOR TO SUPPLY SURFACE MOUNTED INSIDE & OUTSIDE CORNERS AS REQD.

HOHMANN & BARNARD OR EQUAL

363-BT - FLEXIBLE GRIPSTAY CHANNEL SLOT ANCHOR SPACED AT 16" OC.; STAINLESS STEEL TYPE 304; 12 GAUGE GRIPSTAY HEAD THICKNESS; 3 1/2" VEE BYNA-TIE LENGTH; 3/16" DIA. CONTINUOUS WIRE, MANUF. BY HOHMANN & BARNARD <u>362–C GRIPSTAY CHANNEL</u> LOK-CHANNEL CLIP, & EXPANSION BOLTS SPACED AT 16" OC., 14 GAUGE, STAINLESS STEEL TYPE 304, MANUF. BY HOHMANN & BARNARD VERTICAL CONTROL JOINTS H&B 3/8" X 3" H&B CLOSED CELL NEOPRENE SPONGE WITH TEAR STRIP ANS POLYURETHANE SEALANT (REF. SPECIFICATIONS). WEEP HOLES/VENTS QV – QUADRO-VENT STANDARD SIZE (3/8" THICK X 3 3/8" WIDE X 2 1/2" TALL) SPACED AT 16" OC ABOVE THE FLASHING JOINTS AT BASE OF WALLS COLOR TO BE DETERMINED BY SUNY PURCHASE/OWNER MANUF. BY HOHMANN & BARNARD OR EQUAL T2 – FTS (FOAM–TITE SEAL) TERMINATION BAR TYPE 304 STAINLESS STEEL, 26 GAUGE DIMENSIONS: •26 GA. X 1 1/2" X 8'LONG • HAS A 3/8" FLANGE ON TOP FOR EASY CAULKING •1/4"HOLES SPACED 8"O.C. MANUF. BY HOHMANN & BARNARD <u>MFL – METAL FLASHING</u> TYPE 304 STAINLESS STEEL 26 GAUGE STANDARD BY H&B, FOR SIZE SEE DETAILS FOR DIMENSIONS SUPPLY SURFACE MOUNTED INSIDE & OUTSIDE CORNERS AS REQD. EPRA-MAX EPDM THRU-WALL FLASHING DP-FTSA - DRIP PLATE WITH FOAM-TITE SEAL AND FLASH-ADHERE ADHESIVE STRIP; 3" WIDTH TYPE 304 STAINLESS STEEL (26 GA) SUPPLY INSIDE/OUTSIDE CORNERS AS NEEDEDEPRA-MAX EPDM THRU-WALL FLASHING - INSTALLED PER MANUF. REQUIREMENTS MORTAR WEB - MORTAR COLLECTION & SUSPENSION SYSTEMS

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Office of Capital Facilities Planning 735 Anderson Hill Road, Purchase New York 10577-1400

ENGINEER OF RECORD - STRUCTURAL ENGINEER

GRIGG & DAVIS ENGINEERS, PC Certified Women Owned Business 21 Crossway - Scarsdale, NY 10583 O: (914) 725-5095 URL: gdengineers.net E: gdengineers@optonline.net

> ELECTRICAL ENGINEERS COLLADO ENGINEERING Certified Minority Business Enterprise 455 Hamilton Ave., Suite 608 White Plains, NY 10601 O: (914) 332-7658, ext 108 URL: collado-eng.com E: dcamporese@collado-eng.com

Location:

Project Name:

RESTORATION OF FOUR (4) STAIRS

Performing Arts Center

PERFORMING ARTS CENTER (PAC) Project Number: SU-111919 Scale: Not to Scale

S5 of 10

DRAWING NUMBER:

	Lamp	Wattage	NOTE
ED 30"	LED	3.5	
ED 30"	LED	3.5	

- DRAWING LIST: N1 NOTES & SPECIFICATIONS SHEET 1 OF 2 N2 NOTES & SPECIFICATIONS SHEET 2 OF 2 S1 NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS
- S2 NORTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS

- 52 NORTHEAST FAC STAIR RESTORATION PLANS & ELEVATIONS 53 SOUTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS 54 STAIR RESTORATION DETAILS, SHEET 1 OF 3 55 STAIR RESTORATION DETAILS, SHEET 2 OF 3 56 STAIR RESTORATION DETAILS, SHEET 3 OF 3 E1 PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

JUNCTION BOXES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AS NECESSARY. 2. ALL CIRCUITS SHALL BE CONCEALED IN FINISHED SPACES.

TIMECLOCK WIRING DETAIL (NORTH STAIRS)

