

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE "2015 INTERNATIONAL BUILDING CODE", THE NYS "2017 UNIFORM CODE SUPPLEMENT", AND ALL LOCAL BUILDING CODES, LATEST EDITIONS.
2. ALL WORK SHALL ALSO CONFORM TO THE LATEST EDITION OF THE "BUILDING CODE OF NEW YORK STATE" AND NYS-SED REQUIREMENTS & SPECIFICATIONS.
3. THE CONTRACTOR SHALL NOT SUBSTITUTE ANY MATERIAL SPECIFIED WITHOUT ENGINEER'S & OWNERS' PRIOR APPROVAL.
4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, TECHNIQUES, SEQUENCES, AND METHODS OF CONSTRUCTION.
5. 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.
6. 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.
8. 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.
9. 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.
11. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOBSITE DURING ALL PHASES OF CONSTRUCTION.
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.
14. CONTRACTOR SHALL ONLY USE THE UNDERPASS ROADWAY AREA FOR LOADING & UNLOADING OF MATERIALS. AT ALL ALL OTHER TIMES THE 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-TRAFFIC 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.
18. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS TO MAINTAIN TEMPORARY ELECTRIC, LIGHTING, AND WATER DURING CONSTRUCTION.
19. GUARANTEE: ALL WORK INCLUDED IN THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS OR MATERIALS AND WORKMANSHIP FOR THE PERIOD SPECIFIED BY THE MANUFACTURER OR ONE YEAR, WHICHEVER IS LONGER, FROM THE DATE OF OCCUPANCY.
20. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE EXITS AT ALL TIMES.
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.
28. 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.
29. 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.
33. ALL WORK IS TO BE PERFORMED BY MECHANICS SKILLED IN THEIR TRADE.
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.
35. CONTRACTOR SHALL ERECT A 6' AROUND THE WORK AREA SHOWN AND LOCATE ALL EQUIPMENT NEEDED TO CONDUCT THE PROJECT WITHIN THIS 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.
39. ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND THE DRAWINGS OF OTHER DISCIPLINES SHALL BE BROUGHT TO 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

DEMOLITION

1. 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.
2. REMOVE ALL CONSTRUCTION AS NECESSARY IN ORDER THAT THE NEW WORK CAN BE PERFORMED.
3. 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.
4. 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:

- 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.

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

DEMOLITION NOTES:

1. 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 SOUTHEAST AND NORTHWEST PAC STAIRS).
2. REMOVE THE BRICK VENEER TO THE EXTENTS SHOWN.
3. AT THE CONCOURSE LEVEL, SAWCUT AND REMOVE CONCRETE SIDEWALK FOR THE BRICK RESTORATION WORK.
4. 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.
6. AT PAC STAIRS, REMOVE EXISTING LIGHT FIXTURES, CONDUITS ETC., AND CAP OFF CONDUITS AT LOCATIONS SHOWN.
7. AT PAC STAIRS, REMOVE EXISTING WOOD HANDRAILS.
8. AT WESTERLY FACES OF THE NORTHWEST & SOUTHWEST PAC STAIRS, POWER WASH THE EXISTING BRICK TO EXTENT SHOWN, AND INSTALL HELICAL TIES TO EXTENT SHOWN.
9. AT THE EXISTING COPINGS AND GUARDRAILS TO REMAIN IN PLACE, GC SHALL TAKE PRECAUTIONS TO PROTECT THESE EXISTING INSTALLATIONS FROM DAMAGES.

MAJOR ITEMS OF NEW WORK

1. AT BRICK VENEER ON STAIR WALLS ABUTTING PAC STAIRS

A. REMOVE EXISTING RAILINGS FOR REPLACEMENT;

B. REMOVE AND COPING STONES AND STACK FOR REINSTALLATION, EXCEPT AT LOCATIONS OF STAINLESS STEEL TOP RAILINGS;

C. REMOVE EXISTING FACE BRICK FOR REPLACEMENT AS SHOWN IN ELEVATIONS;

D. REPAIR THE EXISTING CONCRETE STAIR WALLS AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. SS. CALL FOR PRE & POST INSPECTIONS.

E. REPLACE FACE BRICK AS PER SECTIONS #1 THRU #6, DWG. SS:

i. ON THE OUTSIDE WALLS - PROVIDE CONTINUOUS STAINLESS STEEL (S.S.) FLASHINGS AT BASE OF THE WALLS AT 6" MIN. ABOVE GRADE;

ii. ON INSIDE STAIR WALLS - PROVIDE STEP FLASHINGS AT 6" MIN. ABOVE STEPS, AND 6" ABOVE LANDINGS;

iii. PROVIDE OUTSIDE FLASHINGS.

F. PROVIDE MASONRY WALL TIE BACKS AS PER SECTION 2/SS;

G. PROVIDE WEEPS ABOVE ALL FLASHINGS PER SECTION 3/SS;

H. PROVIDE MORTAR TRAPS ABOVE ALL FLASHINGS PER SECTION 3/SS;

I. ON OUTSIDE WALLS, PROVIDE VERTICAL CONTROL JOINTS, PER SECTION 5/SS;

J. RESET GRANITE COPINGS AS PER SECTION 6/SS;

K. REPLACE CRACKED COPING STONES, COLLEGE TO SUPPLY STONE;

L. BELOW THE BASE (W/L) FLASHINGS, FILL CAVITY JOINTS SOLD WITH MORTAR;

M. CAULK AND SEAL ALL JOINTS AS PER TYPICAL DETAILS;

N. REPAIR THE EXISTING CONCRETE STAIR WALLS AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. S6;

O. BELOW THE NORTHWEST & SOUTHWEST STAIRS, RECONSTRUCT 165 SF OF BRICK VENEER AS PER SECTIONS 1-6/SS.
2. AT BRICK VENEER ON BUILDING WALLS ABUTTING PAC STAIRS

A. REMOVE ALL EX'G CONDUIT, JUNCTURE BOXES, & LIGHT FIXTURES AND PATCH WALLS;

B. REMOVE ALL EXISTING RAILINGS AND PATCH THE WALLS;

C. REPOINT THE BUILDING WALLS AS PER TYPICAL DETAILS, DWG. S6.
3. STAINLESS STEEL HAND RAILINGS & AT BOTH SIDES OF STAIRS & GUARD RAILINGS.

A. REMOVE & DISPOSE OF EXISTING WOOD HAND RAILINGS, PATCH THE WALLS;

B. FIELD MEASURE EXISTING CONDITIONS;

C. PREPARE SHOP DRAWINGS OF THE STAINLESS STEEL, WALL MOUNTED, TUBULAR PIPE HAND RAILS & GUARD RAILINGS (REFER TO DWGS. S1-S4, AND DWG. S7);

D. INSTALL STAINLESS STEEL RAILINGS AND GUARD RAILINGS AFTER THE STAIR TOPPING SLAB FINISHES ARE COMPLETED.
4. CONDUCT CONCRETE REPAIRS TO WALLS & STAIR CONCRETE AS PER TYPICAL CONCRETE CRACK & SPALL REPAIR DETAILS, DWG. S6.
5. INSTALL ALL HELI-TIES (AS PER SECTION 16/S7), PRIOR TO REMOVING 16" OF BRICK VENEER FROM TOP OF CONC. STAIR STRUCTURE AS SHOWN IN ELEVATIONS C/S2 & ELEVATION C/S4. INSTALL HELI-TIES
6. INSTALL NEW CAST-IN-PLACE CONCRETE TOPPING SLAB OVER THE EXISTING STAIR STRUCTURES AT FOUR (4) PAC STAIRS (REF. TO DWGS. S1 THRU S4), AS FOLLOWS:

A. THE NEW TOPPING SLABS SHALL BE CAST SUCH THAT EACH STAIR SHALL HAVE UNIFORM DEPTH TREADS AND UNIFORM HEIGHT RISERS.

B. THE STAIR TOPPINGS SHALL BE INSTALLED PRIOR TO THE GC. PREPARATION OF THE HAND RAILINGS SHOP DRAWINGS.

C. THE GC SHALL PREPARE SHOP DRAWING OF THE STAIR SHOWING THE EXISTING FIELD MEASURED STAIR STRUCTURE AND REQUIRED TOPPING CONCRETE TO ACHIEVE A UNIFORM RISER & TREADS FROM TOP TO BOTTOM OF EACH STAIR.

D. THE TOPPING SLAB SHALL EXTEND THE FULL WIDTH OF THE EXISTING ADJACENT WALLS (NOTE: HELI-TIES DRILLED AND GROUTED IN PLACE PRIOR TO ANY BRICK REMOVAL, AS PER NOTE #5).

LIGHTING

1. SUPPLY AND INSTALL RECTANGULAR STEP SURFACE MOUNTED STEP LIGHT FIXTURE MOUNTED 30" ABOVE STAIR LEVEL SHALL BE WINONA "RECTANGULAR SURFACE MOUNT STEP LIGHTING - STEP11 W/RECT L LST1A 700MA WHT30K W/OLT BSS". FOR LOCATION REFER TO ELEVATIONS ON DWGS. S1 - S4.
2. FOR ELECTRICAL INFORMATION REFER TO SHEET E1 & SPECIFICATIONS.

COLLEGE MAY EJECT THE FOLLOWING ALTERNATES:

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

CONTRACTOR SUBMITTALS

1. RAILING SHOP DRAWINGS.

2. STAIR TOPPING SLAB DRAWINGS - IDENTIFYING

A. FIELD MEASURED EXISTING CONCRETE STRUCTURE;

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.
4. ALL MASONRY PRODUCTS MANUF. CUT SHEETS.
5. MANUFACTURER CUT SHEETS & SAMPLES WHERE REQUIRED BY SPECIFICATIONS.
6. MOCKUPS 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 CONSTRUCTION SCHEDULE.

STATEMENT OF SPECIAL INSPECTIONS

CONCRETE CONSTRUCTION:	INSPECTION DURATION
1. Inspection of reinforcing steel size, spacing and placement.	Periodic
2. Inspection of formwork for shape, location and dimensions of concrete member being formed.	Periodic
3. Verify use of required design mix and/or specified pre-packed concrete mix.	Periodic
4. At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine temperature of concrete.	Continuous
5. Inspection of concrete placement for proper placement techniques.	Continuous
6. Inspection of maintenance of specified curing temperature and techniques.	Periodic
MASONRY CONSTRUCTION:	
1. From the beginning of masonry construction verify: <div><div>a. Proportions of site-prepared mortar.</div><div>b. Placement of masonry units and construction of mortar joints.</div><div>c. Placement of connectors and anchorages.</div></div>	Periodic Periodic Periodic
2. The Inspection Program shall verify: <div><div>a. Size and location of structural elements.</div><div>b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.</div><div>c. Protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).</div></div>	Periodic Continuous
3. Compliance with required inspection provisions of the Construction Documents and the approved submittals shall be verified.	Periodic

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 PURPOSES): CUMULATIVE AREAS

BRICK VENEER REPLACEMENT\*

BRICK VENEER ON STAIR WALLS (QUANTITIES OF TOTAL REMOVAL & REPLACEMENT) =  $5800 \times 1.10 \approx 6,380$  SF  
REQUIRED BRICK TYPE TO MATCH CITL'S BRICK: BELDEN BRICK's  
BELDEN BRICK PRODUCT TYPE: 50/50 BLEND OF EBONY-SIENA MODULAR BRICK  
BELDEN's NO. OF BRICKS PER SF = 6.86 BRICKS/SF  
BELDEN's NO. OF BRICKS PER CUBE (PALLET) = 500 BRICKS/CUBE  
NO. OF BRICK CUBES =  $6,380 \text{ SF} \times 6.86 \text{ BRICKS/SF} / 500 \text{ BRICKS/CUBE} = 87.5$  CUBES  
NO. OF CUBES ON BELDEN'S FLAT BED TRUCKS = 24 CUBES/FLAT BED TRUCK  
NO. OF FLAT BED TRUCKS W/ 24 CUBES/FLATBED =  $87.5 \text{ CUBES}/24 \text{ CUBES/FLAT BED TRUCK} = 3.7$   
ROUND UP TO FOUR (4) FLAT BEDS - 24 CUBES (SEE NOTE D).  
CONTRACTOR TO PROVIDE THEIR OWN FORK LIFT TO OFFLOAD FROM BELDEN'S FLAT BED  
ANY LEFT OVER MATERIALS TO BE RELOCATED TO THE COLLEGE'S FACILITY MAINTENANCE YARD BY THE GC

\*NOTES:

- A. PRICE INCLUDES ALL COSTS & WORK ASSOCIATED WITH THE FURNISHING & INSTALLING NEW BRICK VENEER, INCLUDING ALL INSERTS, REMOVAL & DISPOSAL OF EXISTING BRICK;

B. 1.10 MULTIPLIER IS FOR WASTE ALLOWANCE.

C. ANY LEFT OVER BRICK IS TO BE RELOCATED TO FACILITIES STORAGE YARDS AS DIRECTED BY COLLEGE.

D. ORDER FOUR (4) FLAT BEDS, TO INCLUDE BRICK REPLACEMENTS AT NORTHWEST AND NORTHEAST STAIR'S WESTERLY FACES

REMOVAL & DISPOSAL OF EXISTING STAIR TREADS, RISERS (AT NORTHEAST & SOUTHWEST STAIRS ONLY)	1,500 SF
NEW CAST-IN-PLACE CONCRETE STAIR TREADS, RISERS & TOP & & BOTTOM LANDINGS 2781 SF (PLAN-AREA FOOT PRINT) 11.10 (ANGLE) X 1.10 (WASTE)= 3365 SF (ROUND UP 3400 SF)	3,400 SF
NEW CAST-IN-PLACE CONCRETE SIDEWALK AREAS REMOVAL & REPLACEMENT	800 SF
BRICK CONTROL JOINTS - VERTICAL JOINTS ON OUTSIDE STAIR WALLS	110 LF
COPING STONES ON STAIR WALLS: <div>1. REMOVE, STOCKPILE, AND RESET GRANITE COPINGS</div>	400 SF
HAND RAILINGS <div><div>1. NEW STAINLESS STEEL HAND RAILS, POSTS &amp; BRACKETS</div><div>2. NEW STAINLESS GUARD RAILS</div><div>3. REMOVE EXISTING AND REPLACE GUARDS</div></div>	600 LF 140 LF 40 LF
CONCRETE PATCHING REPAIRS (BASE BID) <div><div>1. VERTICAL &amp; OVERHEAD CONCRETE SPALL REPAIRS</div><div>2. HORIZONTAL CONCRETE SPALL REPAIRS</div></div>	400 SF 500 SF

BRICK VENEER REPAIRS AT THE WEST FACE OF NORTHEAST & NORTHWEST PAC STAIRS

CONDUCT BRICK REPAIRS AS REQUIRED

1. POWER WASHING EXTERIOR BRICK WALLS

2. REMOVE & REPLACE BRICK WITH NEW BRICK VENEER (FOR BID ESTIMATING PURPOSES)  
NO. OF BRICK CUBES =  $520 \text{ SF} \times 6.86 \text{ BRICKS/SF} / 500 \text{ BRICKS/CUBE} = 7.13$  CUBES  
TOTAL NO. OF CUBES = 87.5 CUBES (SEE ABOVE) + 7.13 X 1.10 (WASTE) = 95.3 CUBES  
TOTAL NO. OF FLAT BED TRUCKS =  $95.3 \text{ CUBES}/24 \text{ CUBES PER FLAT BED} = 3.97$

3. REPOINT BRICK VENEER & CONDUCT CRACK REPLACEMENT (FOR BID ESTIMATING PURPOSES)
- 1,600 SF  
520 SF  
1,072 SF

PLAZA ROOFING RESTORATION (AT TOP OF THE STAIRS X 4 STAIRS)	320 SF
HELI-TIE INSTALLATION (SOUTHWEST & NORTHWEST BUILDING WALLS)	210 TIES
DETECTABLE WARNING INSERTS (TOP LANDING): 4 X 3' X 10'	120 SF
LIGHTING (ALLOWANCES) <div><div>1. STEP MOUNTS: 7 PER STAIR (ONE SIDE) X 3 STAIRS (BASE BID) (EXCLUDING SOUTHEAST PAC STAIR, WHERE EXISTING FIXTURES ARE INSTALLED)</div></div>	21 FIXTURES

ALTERNATE PRICING

ALTERNATE BID ITEMS

1. ADDITIONAL STEP MOUNT LIGHT FIXTURES ALL ASSOCIATED W. INCLUDING ALL ASSOCIATED ELEC. WORK:  
INSTALL STEP MOUNT LIGHT FIXTURES ON OPPOSITE OF FOUR (4) PAC STAIRS
- 28 FIXTURES

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.

DESIGN LOADS

ALLOWABLE SOIL BEARING CAPACITY: 1.0 Tons per sf

EXTERIOR STAIR DESIGN LOADS

DEAD LOAD (SLAB ON GRADE)	138.0 psf
LIVE LOAD	100.0 psf
SNOW LOAD - FLAT ROOF: PER ASCE 7-15	30.0 psf
SNOW LOAD - DRIFT: PER ASCE 7-10	90.0 psf
WIND ZONE (33' ABV GROUND, 3 SEC. GUST)	100 mph

RAILING

HAND RAIL

- LOAD CASE 1: 50.0 PLF, IN ANY DIRECTION
- LOAD CASE 2: 200.0 LBS., IN ANY DIRECTION
- NOTE: LOAD CASES 1 AND 2 DO NOT ACT CONCURRENTLY.

COMPONENTS:

50.0 LBS. ON A 1'-0" x 1'-0" AREA, INCLUDING OPENINGS AND SPACES BETWEEN COMPONENTS

DRAWING LIST:

N1 - NOTES & SPECIFICATIONS (SHEET 1 of 2)  
N2 - NOTES & SPECIFICATIONS (SHEET 2 of 2)  
S1 - NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
S2 - NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
S3 - SOUTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
S4 - SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS  
S5 - STAIR RESTORATION DETAILS  
S6 - STAIR RESTORATION DETAILS  
S7 - STAIR RESTORATION DETAILS  
E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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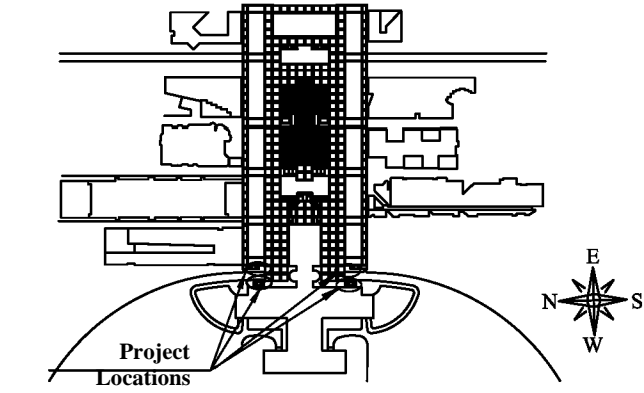
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KEY PLAN



Location: Performing Arts Center

Project Name:  
**RESTORATION OF  
FOUR (4) STAIRS  
at  
PERFORMING ARTS  
CENTER (PAC)**

Project Number: SU-111919

Scale: Not Applicable

DATE: 01-10-2020

DRAWING TITLE:

NOTES  
&  
SPECIFICATIONS  
(SHEET 1 OF 2)

DRAWING NUMBER:

N1 of 10



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 ±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".
  - g) 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 Concrete".
  - d) Admixtures  
Air — Entraining  
Air — Entraining admixtures shall satisfy the requirements of ASTM C260-10a(2016) "Standard Specification for Air-Entraining Admixtures for Concrete".  
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.
4. 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.
5. Concrete shall be placed in a manner which prevents segregation and as quickly as practicable so that the concrete already placed is still plastic.
6. 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 retarding coverings, etc. for a period of 7 days. If High Early Strength concrete is received the period need only be 3 days.
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:
- | Least Dimension of Member, in. | Minimum Concrete Temperature, °F as placed and maintained |
|--------------------------------|---|
| < 12                           | 55  |
| 12 — 36                        | 50  |
| 36 — 72                        | 45  |
| > 72                           | 40  |
- The control of the surface temperature 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 Reinforcing Bars".
  - 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 #31 wire and smaller 1½ in.
  - c) concrete not exposed to earth or weather
    - slabs, walls, joist ¾ in.
    - beams, columns 1½ 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 reveal 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.
2. All brick veneer replacement shall meet the following criteria:
- 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);  
• BELDEN BRICK 50/50 PREBLENDED BRICK IN EBONY/DARK BROWN;  
• SUPPLIER MUST HAVE ASTM C62/C216 TEST REPORTS;  
MORTAR MIX: SPEC-MIX — PACKAGE PAVEMENT  
TYPE N (LIMESTONE COLOR).  
CONTACT EXTECH — LONG ISLAND 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/
4. Masonry units shall be stored off the ground and shall be protected from wetting and soiling.
5. Construct masonry units in lifts in running bond pattern. Masonry shall be constructed 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 masonry is properly braced by floor or roof construction.
6. Wetting of masonry units prior to placement shall be as follows:
- a) Clay Masonry Units  
Clay masonry units with an Initial Rate of Absorption in excess of 1 gram per minute per in.<sup>2</sup> shall be wetted so that the Initial Rate of Absorption does not exceed 1 gram per minute per in.<sup>2</sup> when the unit is placed in mortar. After wetting the surfaces of the unit shall be allowed to dry before the unit is placed.
  - b) Concrete Masonry Units  
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 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.
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.
- A) Preparation:
- a. Maintain sand piles in a damp, loose condition.
  - b. Provide the necessary conditions and equipment to produce mortar and grout having a temperature below 120°F.
- B) Construction
- 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 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 three times a day until the masonry is three days old. When applying the fog spray do not saturate the surface.
10. Cold weather construction. When the ambient air temperature is below 40°F the following procedures shall be implemented.
- A) Preparation:
- 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 surface.
  - 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.
- B) Construction
- 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 to above 140°F.
  - 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.
  - c. When the ambient air temperature is between below 25°F to 20°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 when the wind velocity exceeds 15 mph.  
Heat masonry to a minimum of 40°F prior to grout placement.
  - d. When the ambient air temperature is below 20°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. Heat masonry to a minimum of 40°F prior to grout placement. Provide an enclosure and auxiliary heat to maintain the air temperature above 32°F within the enclosure.
- C) Protection
- 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 hours after completion.
  - 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 grouted masonry.
  - c. When the ambient air temperature is between below 20°F:  
Maintain temperature of newly constructed masonry above 32°F for 24 hours by using heated enclosures, electric heated blankets, or infrared lamps. Extend time to 48 hours for grouted masonry.
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 retooled.

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 oil 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 oil 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 resist 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 reinforcement 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 joint 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 embedded 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 other 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 than 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, NONSKINNING) 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:

RAILINGS & GUARD RAILS

- 1. ALL STAINLESS STEEL (S.S.) TO BE 316, #4 BRUSHED FINISH
- 2. 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.

TREADS & RISERS

- 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".

TREAD 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 ½" 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 GUIDE.
  - 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 LATANCE. 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 — SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS
- S5 — STAIR RESTORATION DETAILS
- S6 — STAIR RESTORATION DETAILS
- S7 — STAIR RESTORATION DETAILS
- E1 — PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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STATE UNIVERSITY OF NEW YORK

Office of Capital Facilities Planning  
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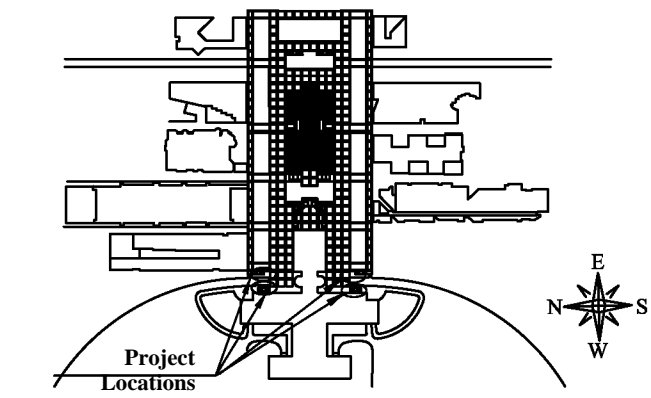
LOUISE GRIGG, PE - lgrigg@gdengineers.net  
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COLLADO ENGINEERING

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KEY PLAN



Location: Performing Arts Center

Project Name:  
**RESTORATION OF  
FOUR (4) STAIRS  
at  
PERFORMING ARTS  
CENTER (PAC)**

Project Number: SU-111919

Scale: Not Applicable

DATE: 01-10-2020

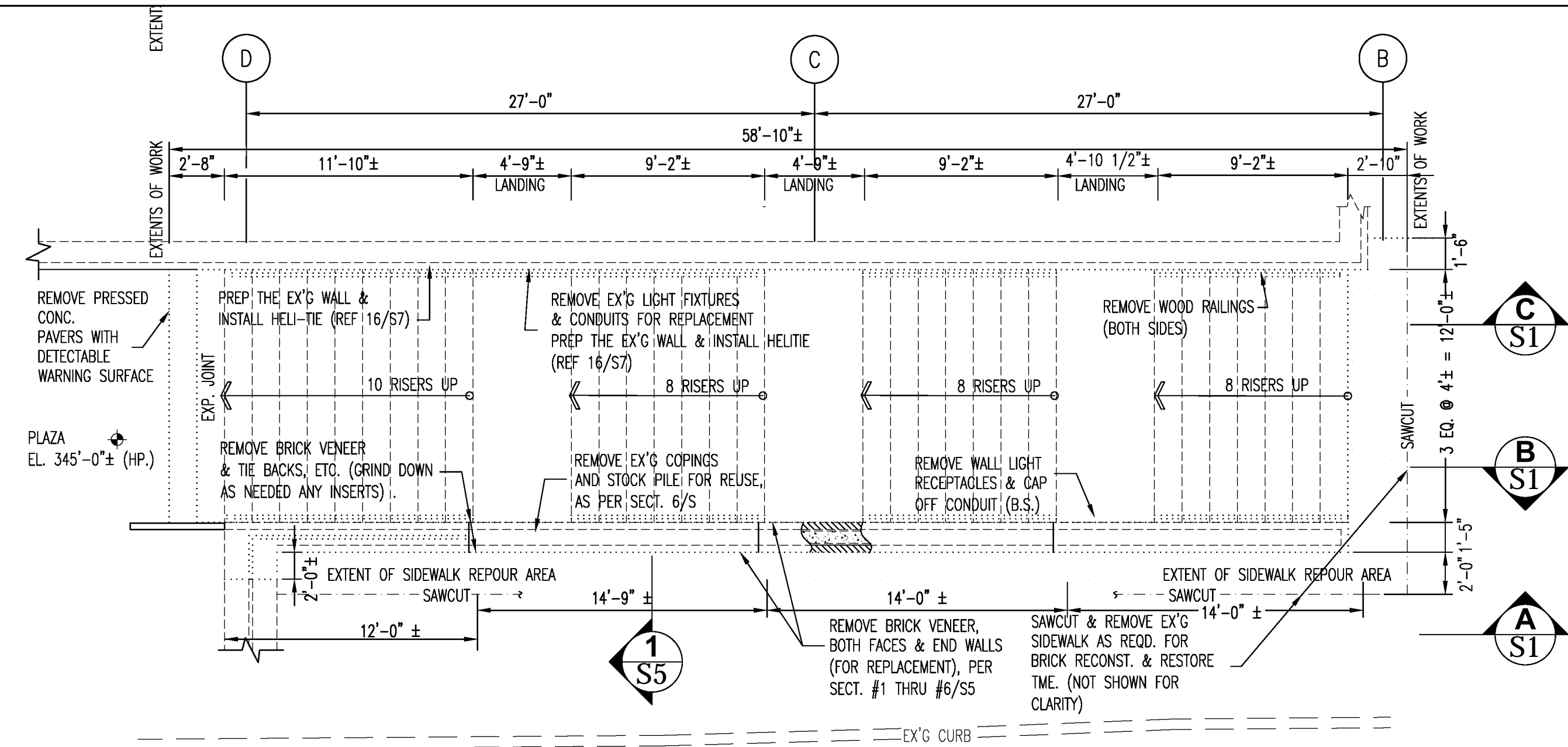
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**NOTES  
&  
SPECIFICATIONS  
(SHEET 2 OF 2)**

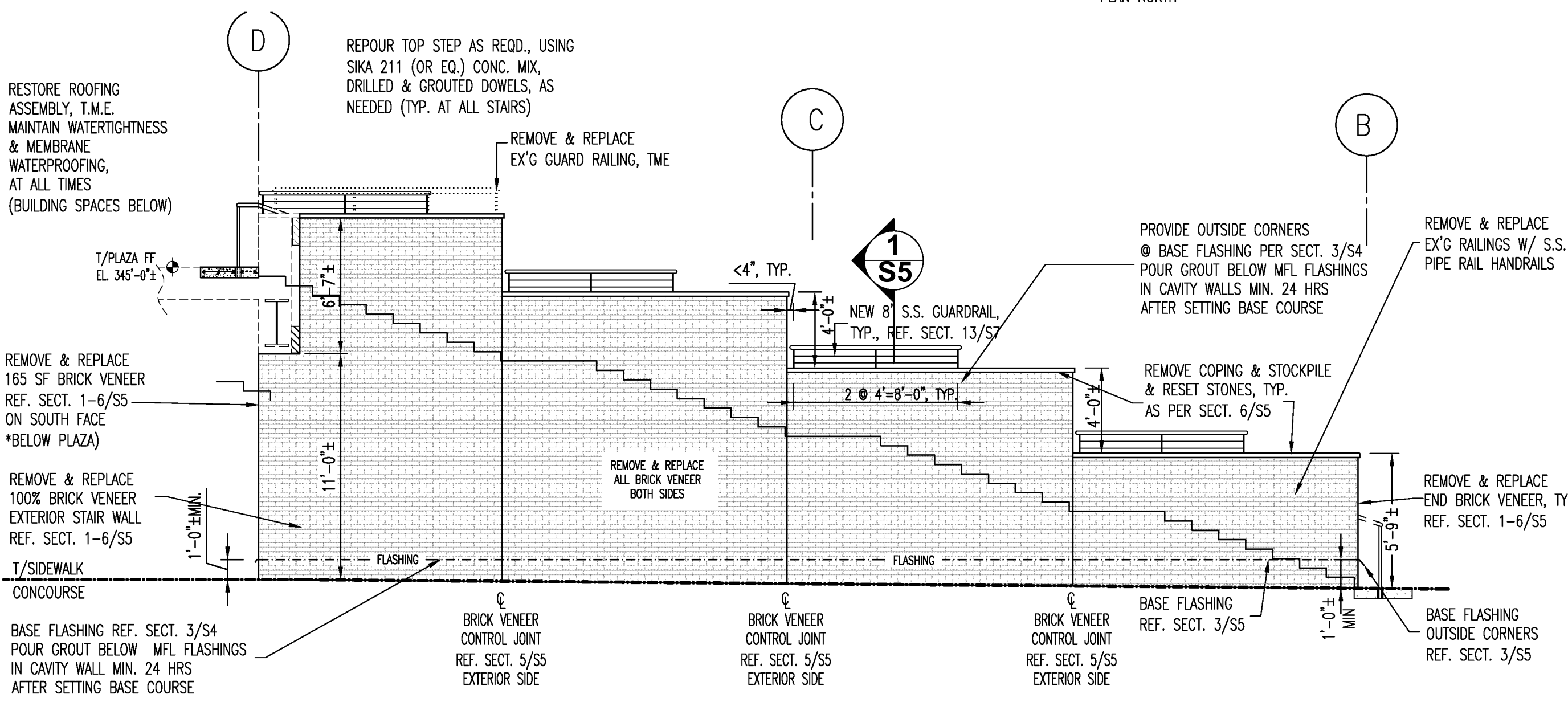
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**N2 of 10**

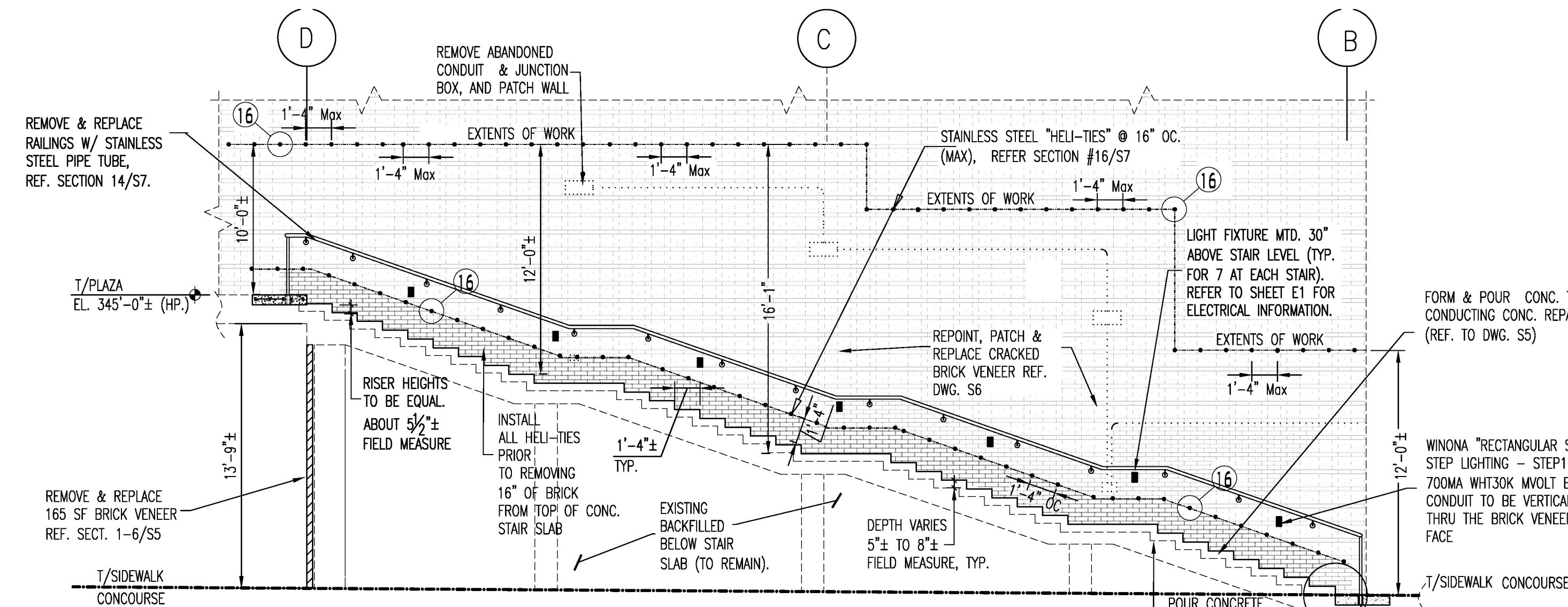




**NORTHWEST PAC STAIR - DEMOLITION PLAN**



**NORTHWEST PAC STAIR ELEV. A**



**NORTHWEST PAC STAIR ELEV. C**

2' x 10' WARNING DETECTION INSERT INTO FRESH CONCRETE TYP. AT ALL TOP LANDINGS

RESTORE ROOFING ASSEMBLY, T.M.E. MAINTAIN WATER TIGHTNESS & MEMBRANE WATERPROOFING, AT ALL TIMES (BUILDING SPACES BELOW)

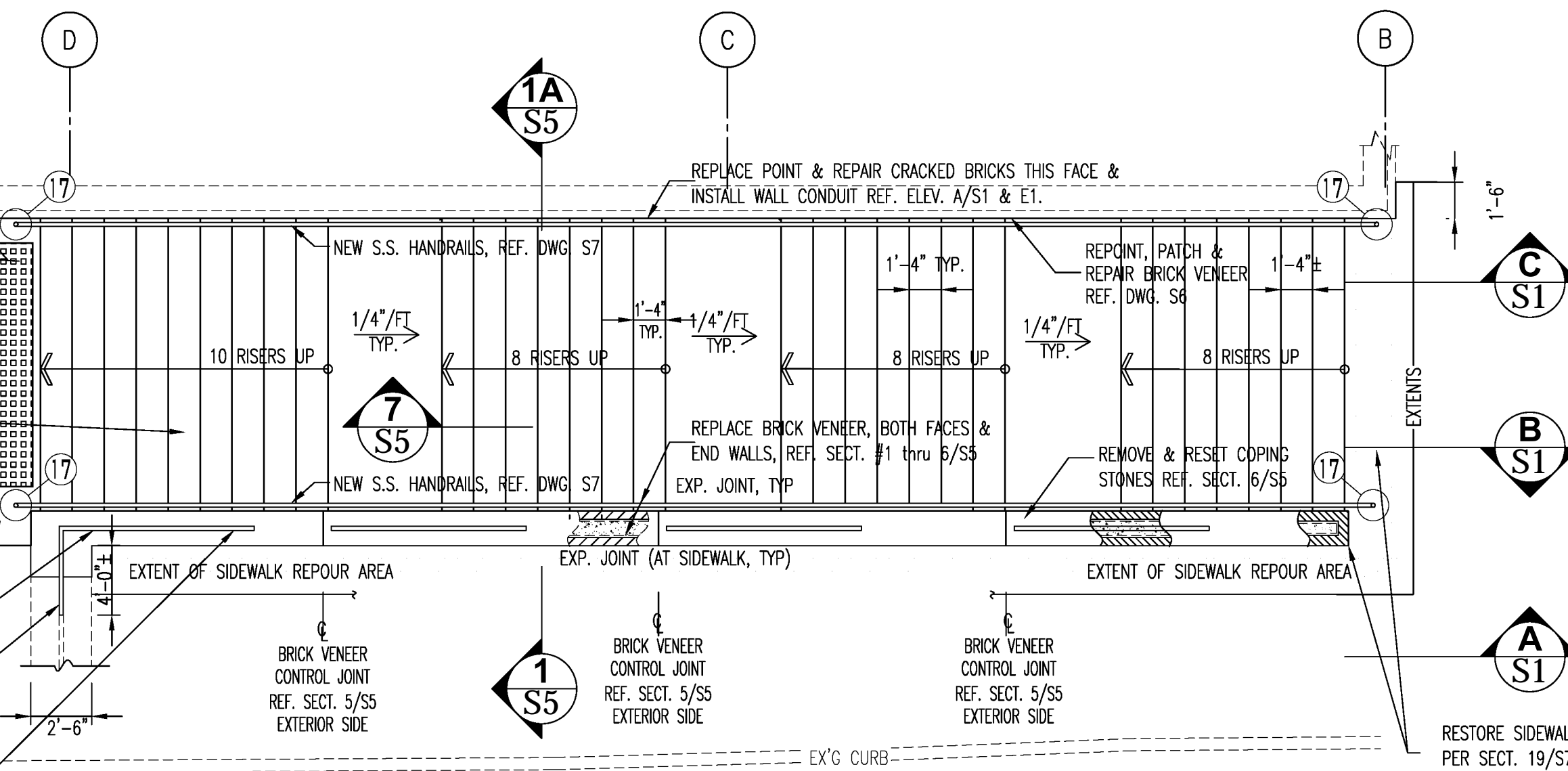
FORM & POUR IN CAST IN PLACE CONCRETE STAIR RISERS, TREADS, LANDINGS LIGHT BROOM FINISH, MOCHO-COLORED, W/ AT 28-DAYS SILANE SEALER (BARACADE WB 244 BY EUCLID OR EQUAL) REF. TO NOTE 1 & TYP. DETAIL #7/S4, CONDUCT CONCRETE REPAIRS TO SUBSURFACE AS REQUIRED (REF. TO TYP. CONCRETE REPAIR DETAILS S6.

REPOUR TOP STEP AS REQD., USING SIK A 211 (OR EQ.) CONC. MIX, DRILLED & GROUTED DOWELS, AS NEEDED (TYP. AT ALL STAIRS)

RESET COPING, AND REMOVE & REPLACE EX'G GAUD RAILING, TME

REPLACE 4' S.S. GUARD RAIL, TME

NEW S.S. GUARD RAIL X 8' LONG @ 4 LOCATIONS, REF. TO SECTION 13/S7



**NORTHWEST PAC STAIR - PROPOSED PLAN**

NOTES:  
1. FOR DIMENSIONS, REFER TO PLAN #1/S1.

REMOVE WOOD RAILINGS & REPLACE S.S. TUBULAR WELDED RAILINGS ALL JOINTS W/ MITERED CORNERS & CONTINUOUSLY WELDED JOINTS

HANDRAILING EXTENSIONS AT BOT. ON BOTH SIDES OF STAIRS: CONTINUE SLOPE OF HAND RAILINGS 1'-4" (TREAD DEPTH), AND PROVIDE HORIZ. RETURNS. ALL RAILING JOINTS TO BE CONTINUOUSLY WELDED (SEAMLESS) CONNECTIONS W/ MITERED CORNERS.

REMOVE EXISTING TREAD & RISER FINISHES DOWN TO THE EXISTING CONCRETE SUBBASE. REPAIR THE EXISTING CONCRETE SUBBASE AS REQD. STOCKPILE EX'G MARBLE TREADS & RISERS ATO AS DIRECTED BY OWNER.

REMOVE & REPLACE EX'G GUARD RAILING W/ S.S. PIPE TUBE RAILINGS, TME

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

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REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

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REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

REMOVE & REPLACE 165 SF BRICK VENEER REF. SECT. 1-6/S5

**NORTHWEST PAC STAIR ELEV. B**

NOTES:  
1. FOR BALANCE OF INFO. NOT SHOWN, REFER TO OTHER THE OTHER THREE (3) PAC STAIR DETAILS.

**NOTES:**

- STEPS & LANDINGS:** REMOVE, EXISTING STEP & LANDING FINISH STOCKPILE OR DISPOSE OF THE STONE STEPS AND RISERS AS DIRECTED BY OWNER. FIELD MEASURE THE EX'G CONCRETE STEPPED SUBBASE. CONDUCT REPAIRS TO THE CONCRETE SUBBASE (SEE NOTE 2); FORM EQUAL HEIGHT RISERS FOR EACH GROUP OF STEPS; POUR NEW CONCRETE STEPS, RISERS, & LANDINGS AS FOLLOWS:
  - 5,000 PSI CONCRETE 28-DAY COMPRESSIVE STRENGTH, FIBER REINFORCED,
  - AIR ENTRAINMENT: 6-8%;
  - TINTED MIX: MOCHO-BROWN (REF. 03300 SPECIFICATIONS);
  - LANDING REINF. W/ 6 # 6 - W4.0 x W4.0 EPOXY-COATED WNF ON EPOXY-COATED NOSING BARS;
  - FIBER DOSING: POLYPROPYLENE PLASTIC FIBERS DOSED AT 3 LBS/CUBIC FOOT
  - LIGHT BROOM FINISH;
  - NOSING: 1" ROUNDED BULL-NOSING AT STAIR RISERS;
  - SEALER: APPLY SILANE SEALER (BARACADE WB 244 BY EUCLID OR EQUAL) AFTER 28-DAYS ON STAIR RISERS & TREADS;
  - EXTEND STAIR TOPPING SLAB TO FACE OF EXISTING CONCRETE WALLS ON BOTH SIDES, AS PER SECTION 1/S4
  - AT CONCOURSE LEVELS: THE SAWCUT & REMOVE EX'G SIDEWALK;
  - AT THE PLAZA LEVELS: CHIP EX'G CONCRETE & REPOUR
  - EXPANSION JOINTS (AS LOCATIONS SHOWN IN PLANS): 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT.
- STEP & LANDING SUBSTRATE:** REPAIR EXISTING STEPPED CONCRETE SUBBASE BELOW THE NEW C.I.P. CONCRETE RISERS, TREADS & LANDINGS, AS PER THE TYP. CONC. REPAIR DETAILS SHOWN ON DWG. S6.

**NOTES (Cont.)**

- BRICK VENEERS @ STAIR WALLS:** REMOVE, FURNISH & REPLACE THE FACE BRICK AT BOTH SIDES OF THE STAIR WALLS w/ 50-50 PREBLENDED EBONY-SIENA MODULAR BRICK MANUF. BY BELDEN BRICK (I.E. TO MATCH CITL BUILDING) - REFER TO "BRICK REQUIREMENTS ON THIS SHEET".
- BRICK VENEER @ BUILDING WALLS ADJACENT STAIRS:** CONDUCT CRACK REPAIRS, PATCHING OF ABANDONED ELECTRICAL FIXTURES & CONDUIT, RAILING SUPPORT PATCHING, AND REPOINTING.
- STAIR HANDRAILS:** REPLACE THE EXISTING HANDRAILS W/ STAINLESS STEEL, WALL MOUNTED RAILINGS PER TYP. DETAILS. CONTRACTOR TO FIELD MEASURE EX'G CONDITIONS, PREPARE & SUBMIT SHOP DRAWINGS FOR APPROVAL.
- CONCRETE STAIR WALL SPALL & CRACK REPAIRS:** CONDUCT AT CONCRETE REPAIRS & CRACK REPAIRS PER TYP. DETAILS DWG. S5.
- COPING STONES:** RESET COPING STONES ON WALLS.
- STAINLESS STEEL GUARD RAILINGS, 1" HIGH:** REPLACE STAINLESS STEEL GUARD RAILS WHERE INDICED, TO MATCH EXISTING (T.M.E.).

**LEGEND**

- CLIP CONC. REFER TO NOTE 1
- EXISTING TO REMAIN
- SIDEWALK/BOTTOM & TOP OF STAIR LANDING REMOVAL & RECONSTRUCTION, REF. TYP. DETAILS DWG. S5 & S7.
- REMOVE & REPLACE FACE BRICK TIES, INSERTS ETC. REF. SECTIONS 1-6, DWG. S4
- REPOINT, PATCH, REPAIR FACE BRICK WALL, INSTALL HELICAL TIES AS SHOWN INSTALL HELICAL TIES AS SHOWN
- STAINLESS STEEL HAND RAILINGS, BRACKETS, POSTS
- LIGHT FIXTURE MTD. 30" ABOVE STAIR LEVEL (TYP. FOR 7 AT EACH STAIR). REFER TO SHEET E1 FOR ELECTRICAL INFORMATION.
- 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT (REF. SPECIFICATIONS).
- 2' x 10' DETECTABLE WARNING INSERTS INTO WET PAVEMENT AT TOP OF LANDING OF ALL FOUR (4) PAC STEPS

**DRAWING LIST:**  
 N1 - NOTES & SPECIFICATIONS (SHEET 1 OF 2)  
 N2 - NOTES & SPECIFICATIONS (SHEET 2 OF 2)  
 S1 - NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
 S2 - NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
 S3 - SOUTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
 S4 - SOUTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
 S5 - STAIR RESTORATION DETAILS  
 S6 - STAIR RESTORATION DETAILS  
 S7 - STAIR RESTORATION DETAILS  
 E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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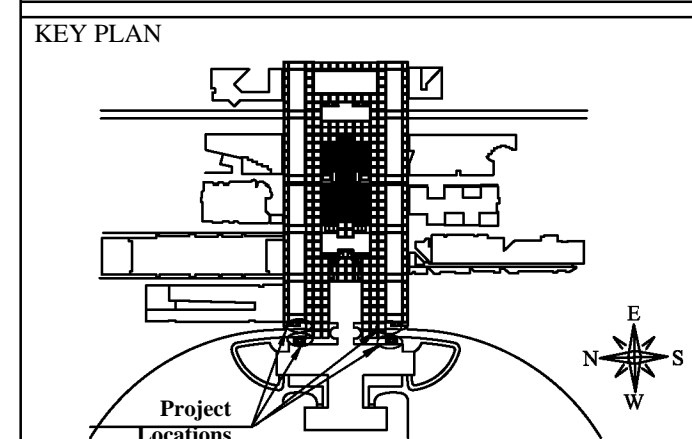
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Location: Performing Arts Center

Project Name:  
**RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

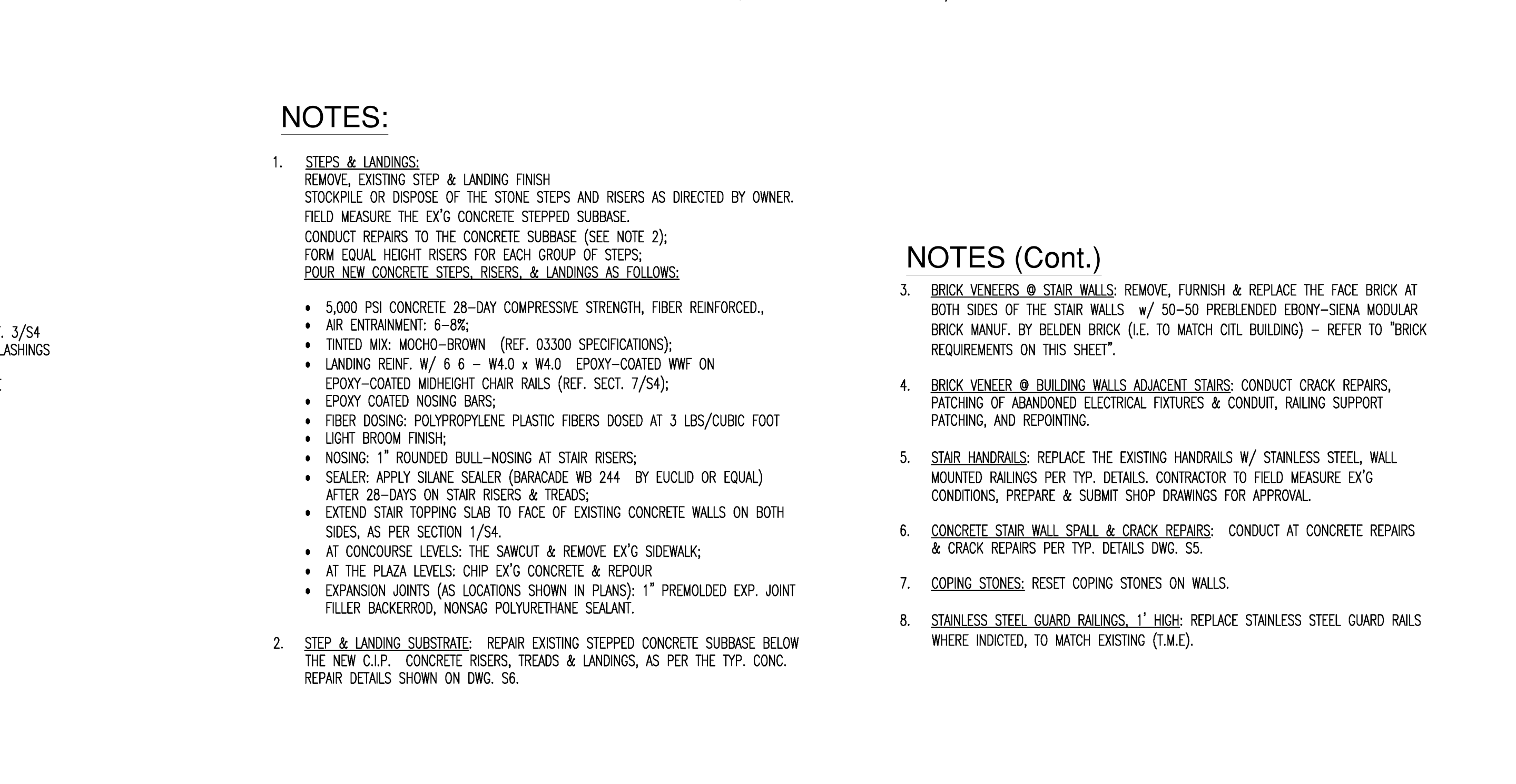
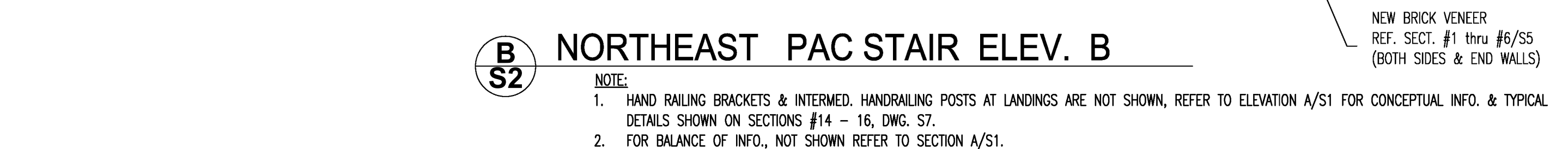
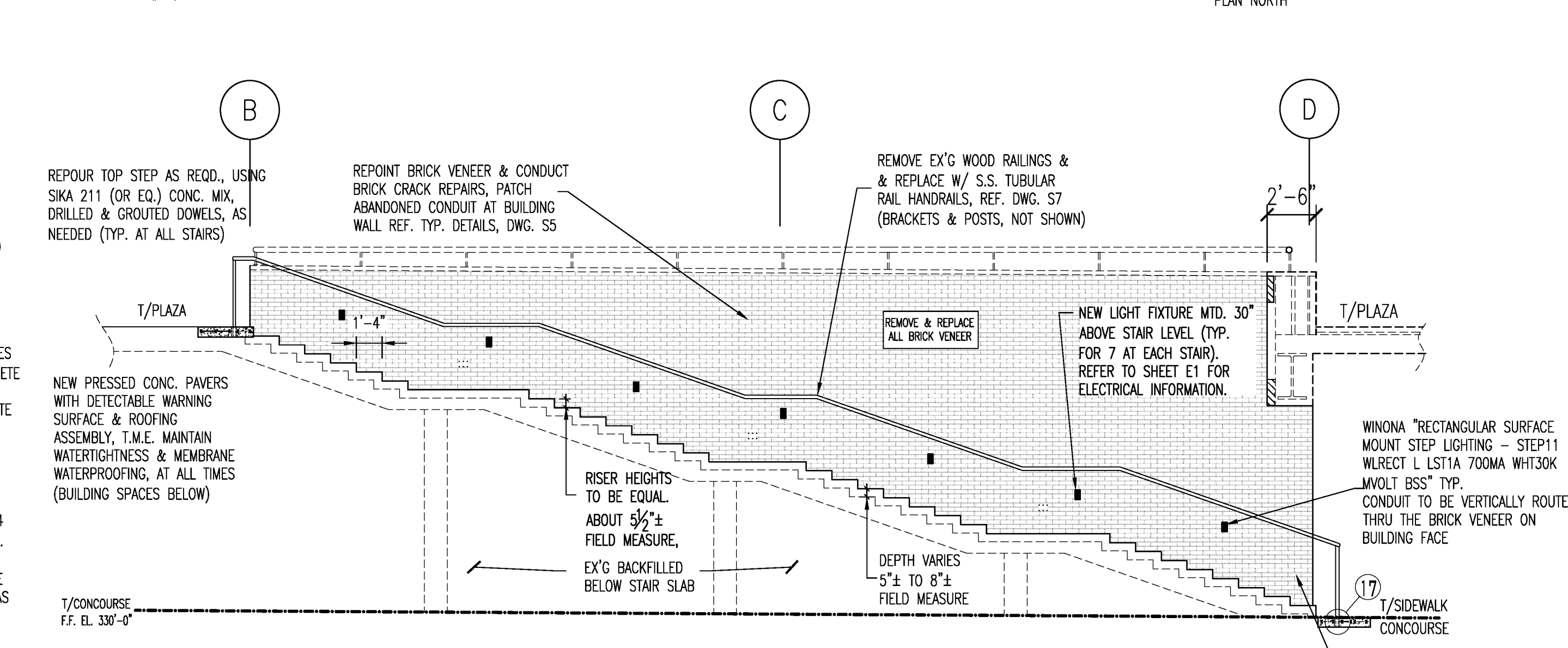
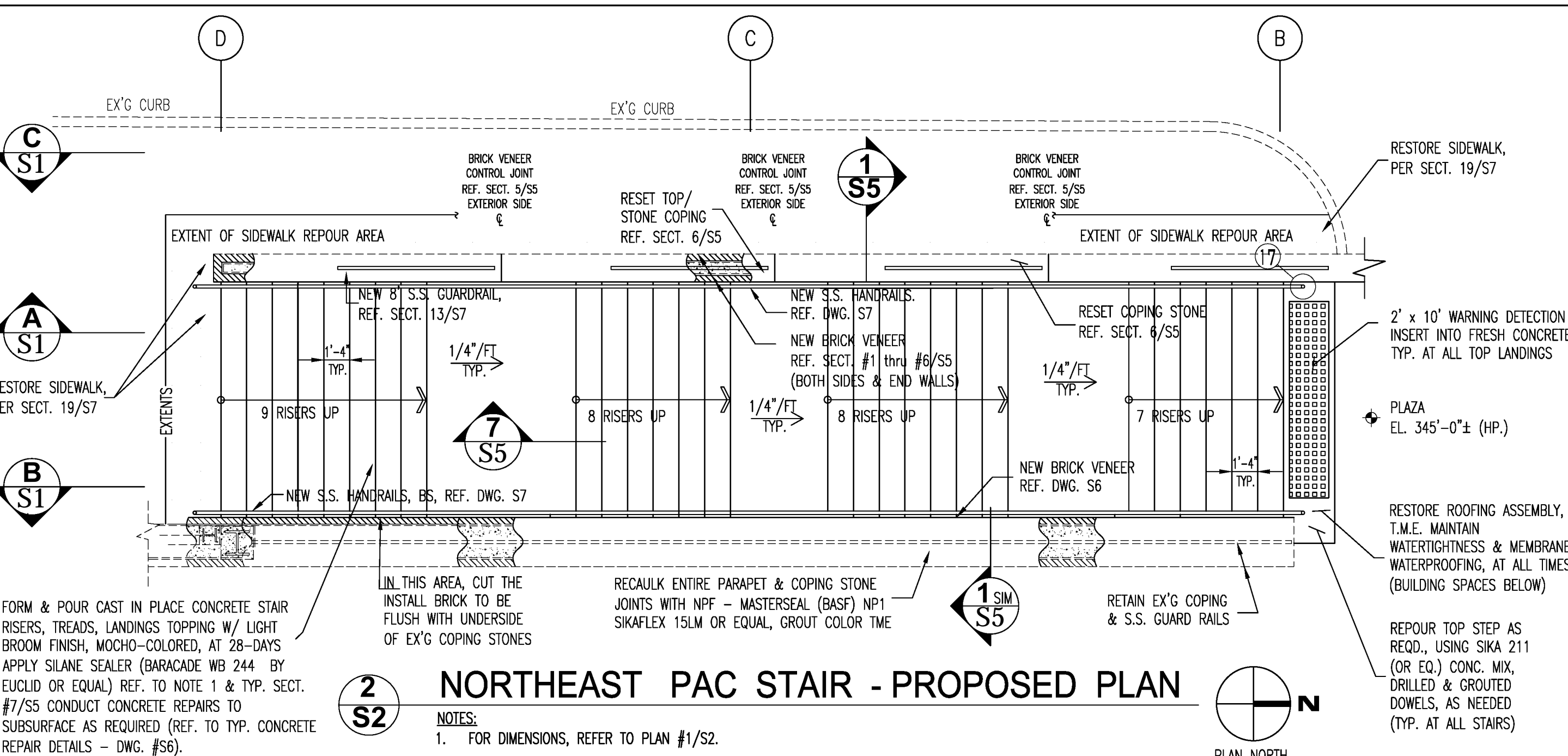
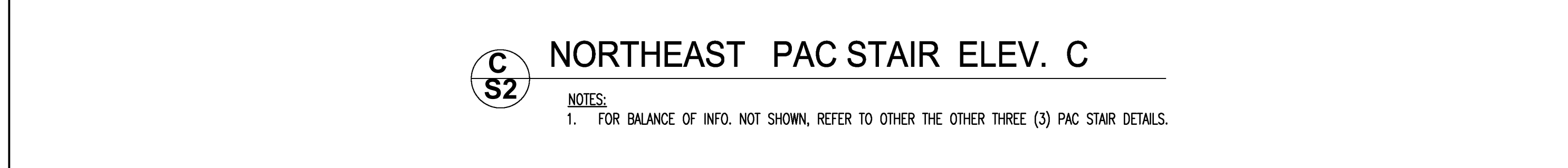
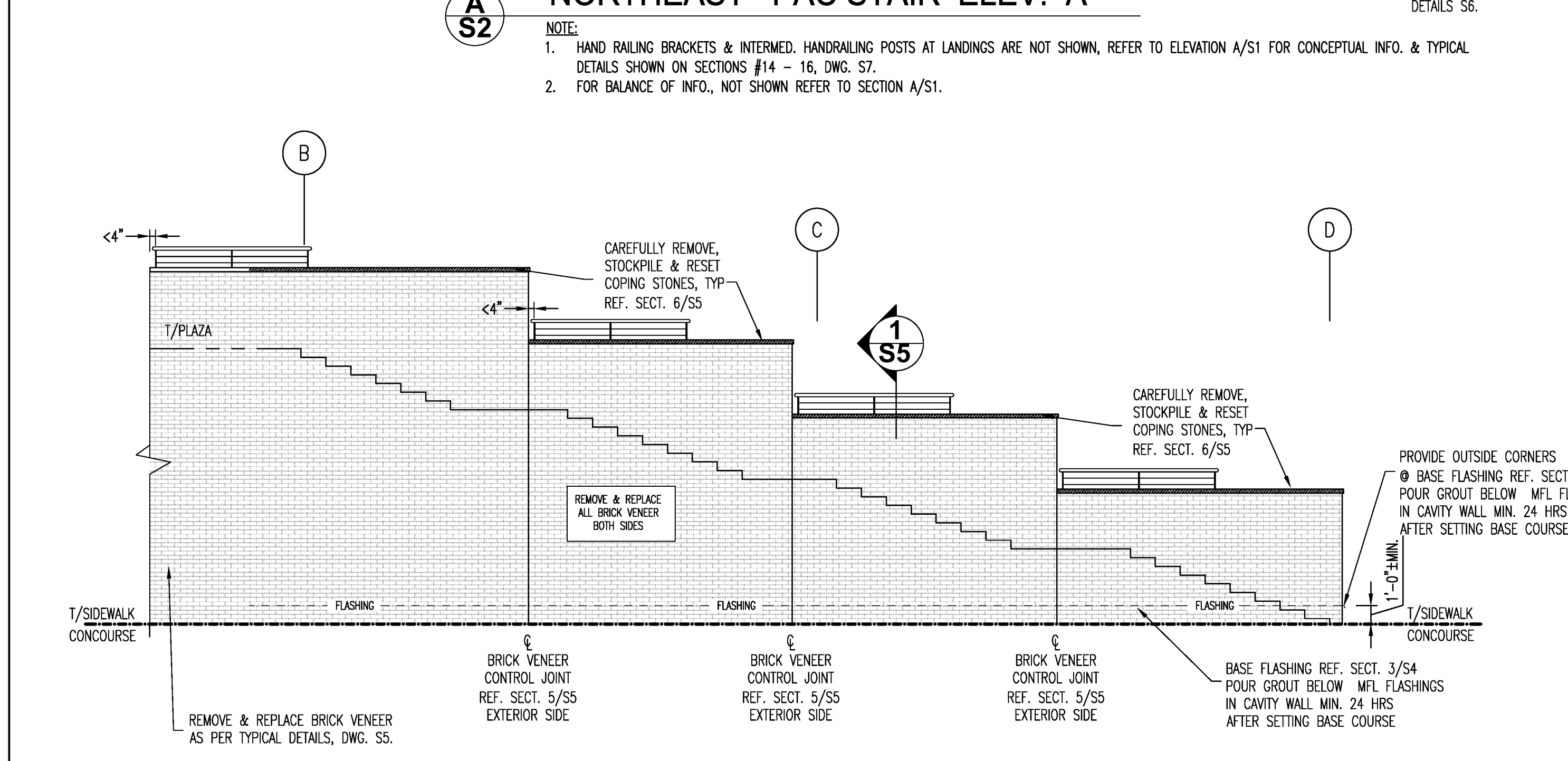
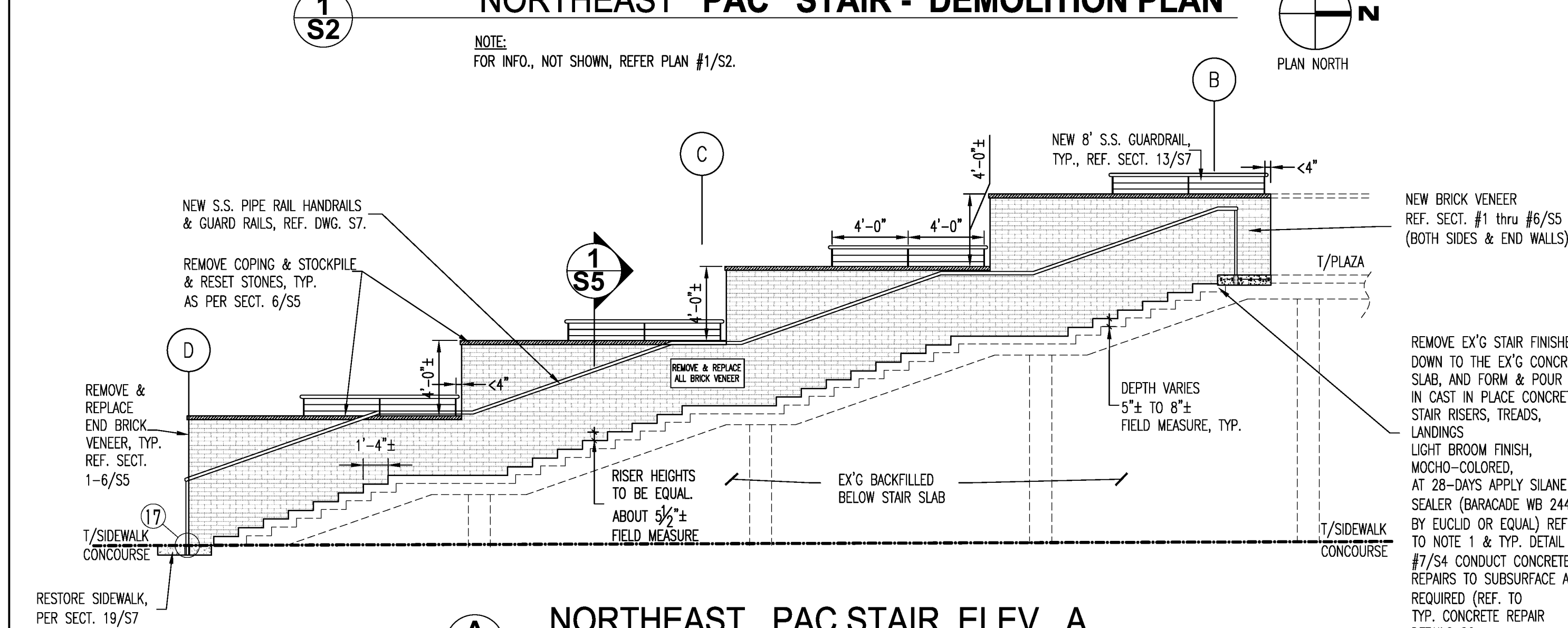
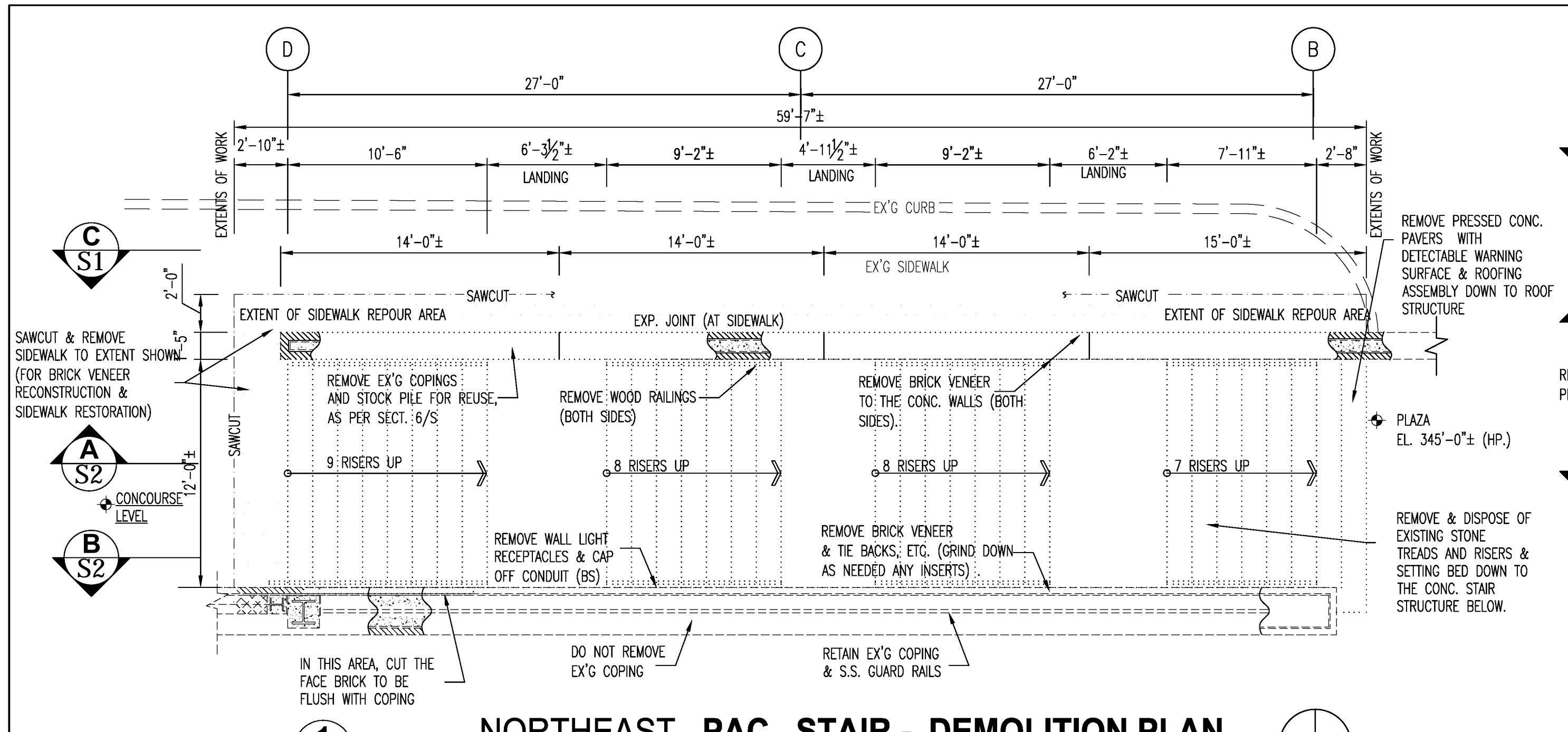
Project Number: SU-111919

Scale: 3/16" = 1'-0"

DATE: 01-10-2020

DRAWING TITLE:  
**NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS**

DRAWING NUMBER:  
**S1 of 10**



### LEGEND

- CLIP CONC. REFER TO NOTE 1
- EXISTING TO REMAIN
- SIDEWALK/BOTTOM & TOP OF STAIR LANDING REMOVAL & RECONSTRUCTION. REF. TYP. DETAILS DWG. S5 & S7.
- REMOVE & REPLACE FACE BRICK, TIES, INSERTS ETC. REF. SECTIONS 1-4, DWG. S4
- REPOINT, PATCH, REPAIR FACE BRICK WALL, INSTALL HELICAL TIES AS SHOWN. INSTALL HELICAL TIES AS SHOWN
- STAINLESS STEEL HAND RAILINGS, BRACKETS, POSTS
- LIGHT FIXTURE MTD. 30" ABOVE STAIR LEVEL (TYP. FOR 7 AT EACH STAIR). REFER TO SHEET E1 FOR ELECTRICAL INFORMATION.
- 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT (REF. SPECIFICATIONS).
- 2' x 10' DETECTABLE WARNING INSERTS INTO WET PAVEMENT AT TOP OF LANDINGS OF ALL FOUR (4) PAC STEPS

**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 - SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS
- S5 - STAIR RESTORATION DETAILS
- S6 - STAIR RESTORATION DETAILS
- S7 - STAIR RESTORATION DETAILS
- E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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**KEY PLAN**

Location: Performing Arts Center

Project Name: **RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

Project Number: SU-111919

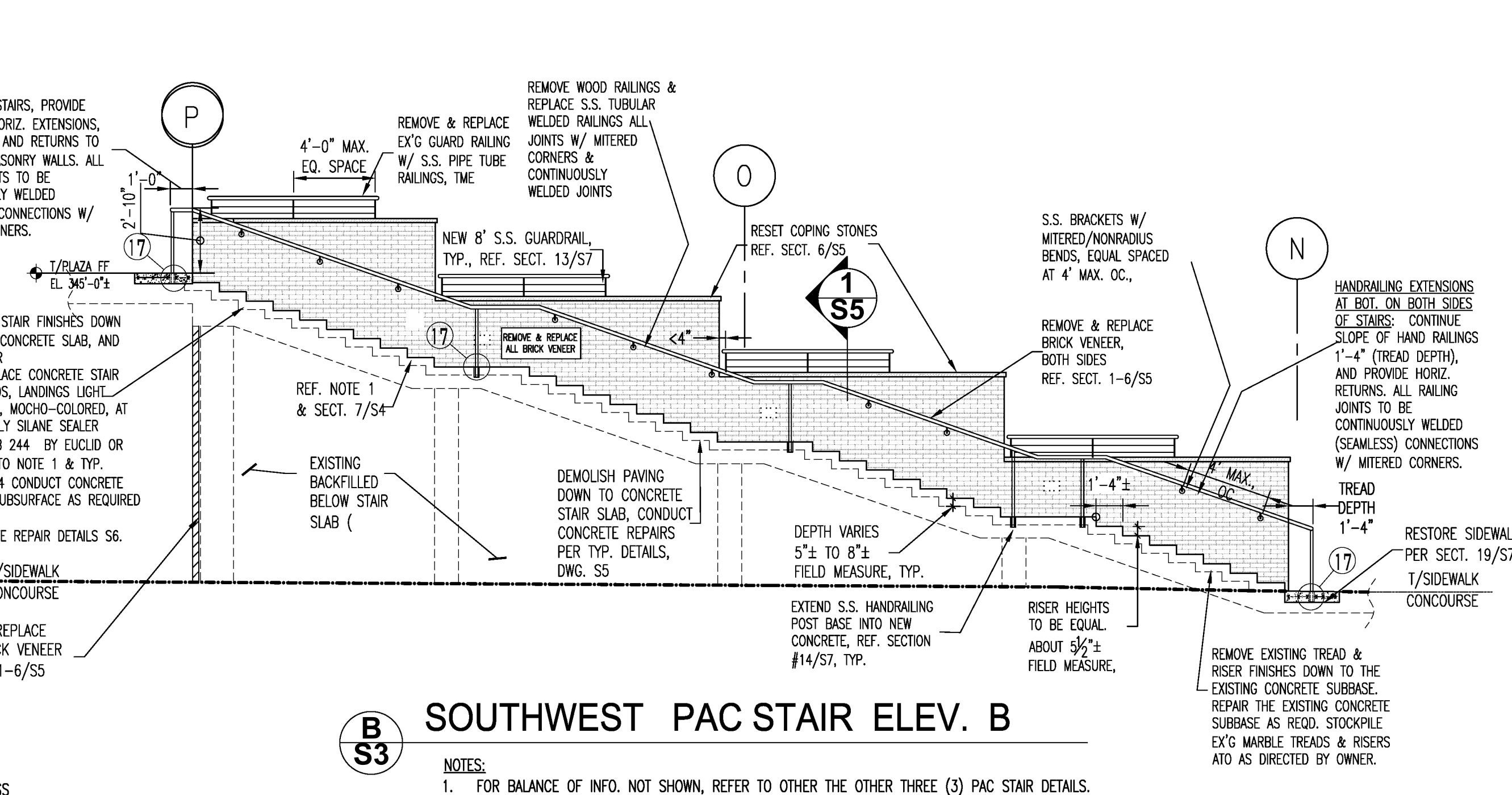
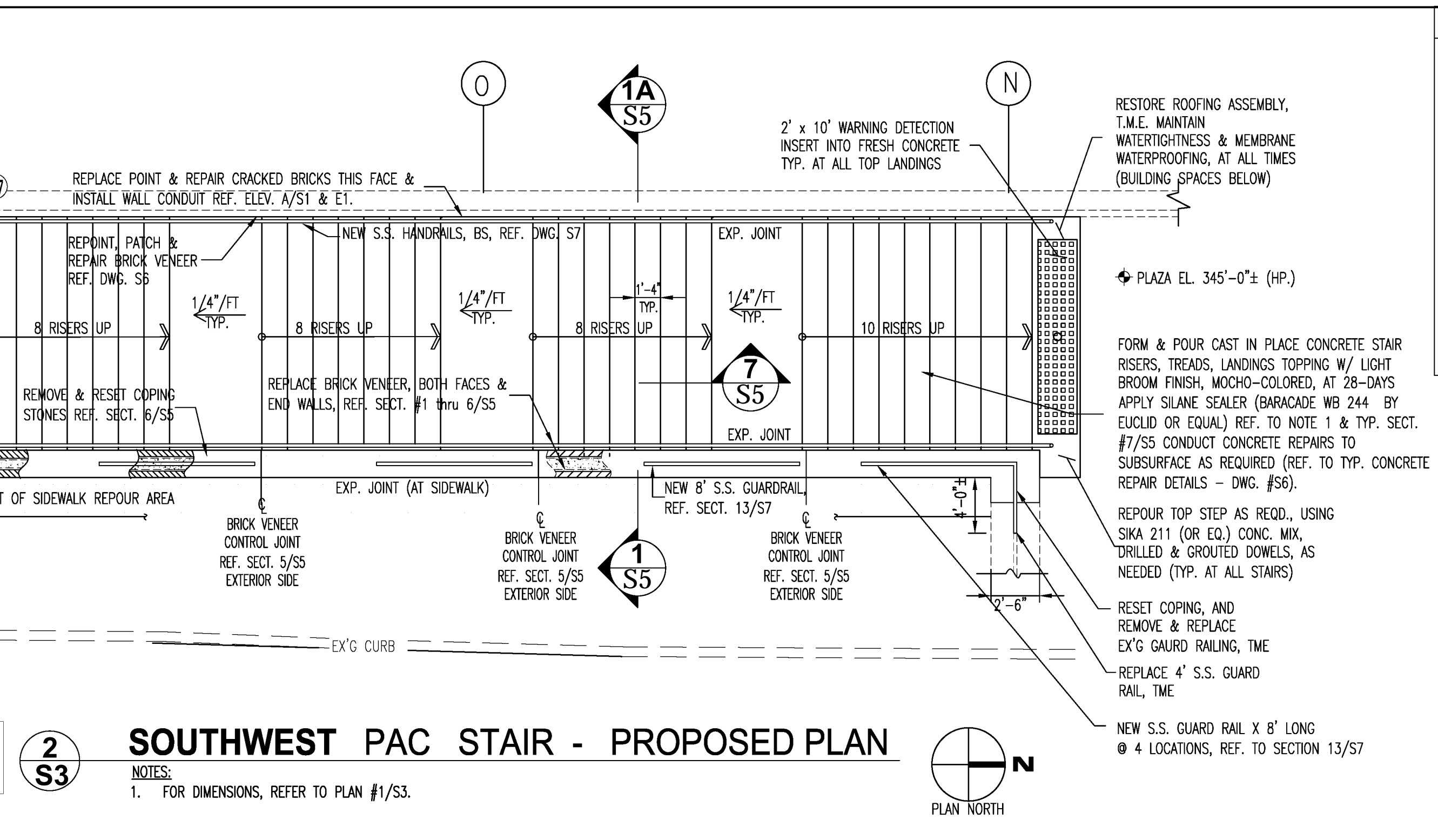
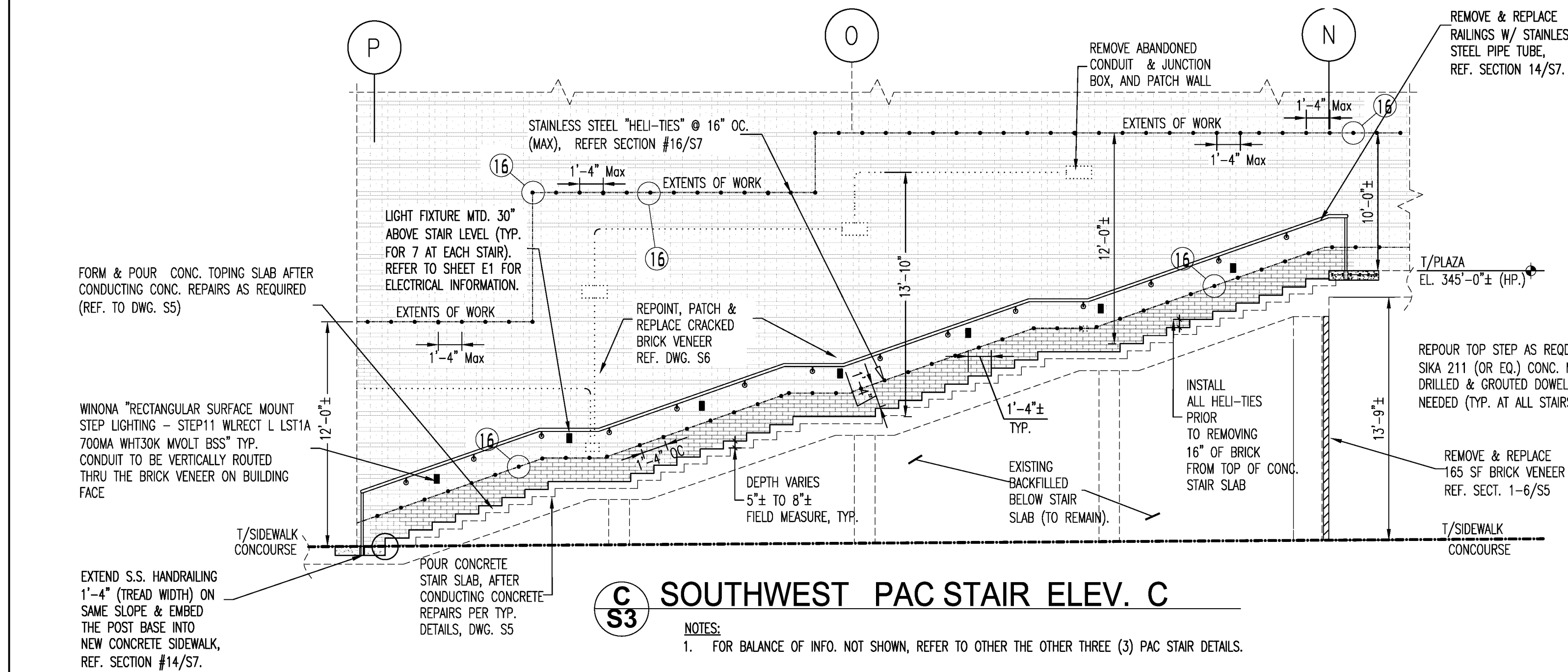
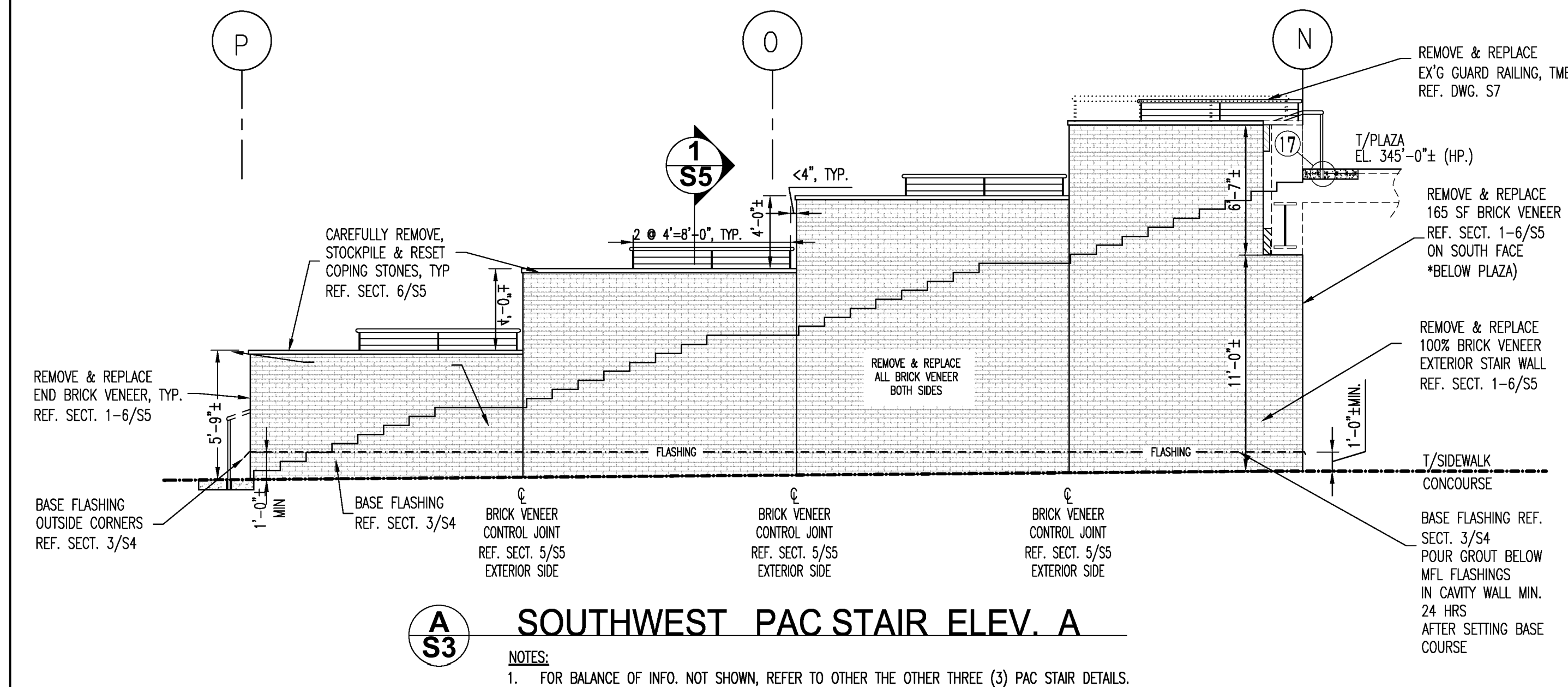
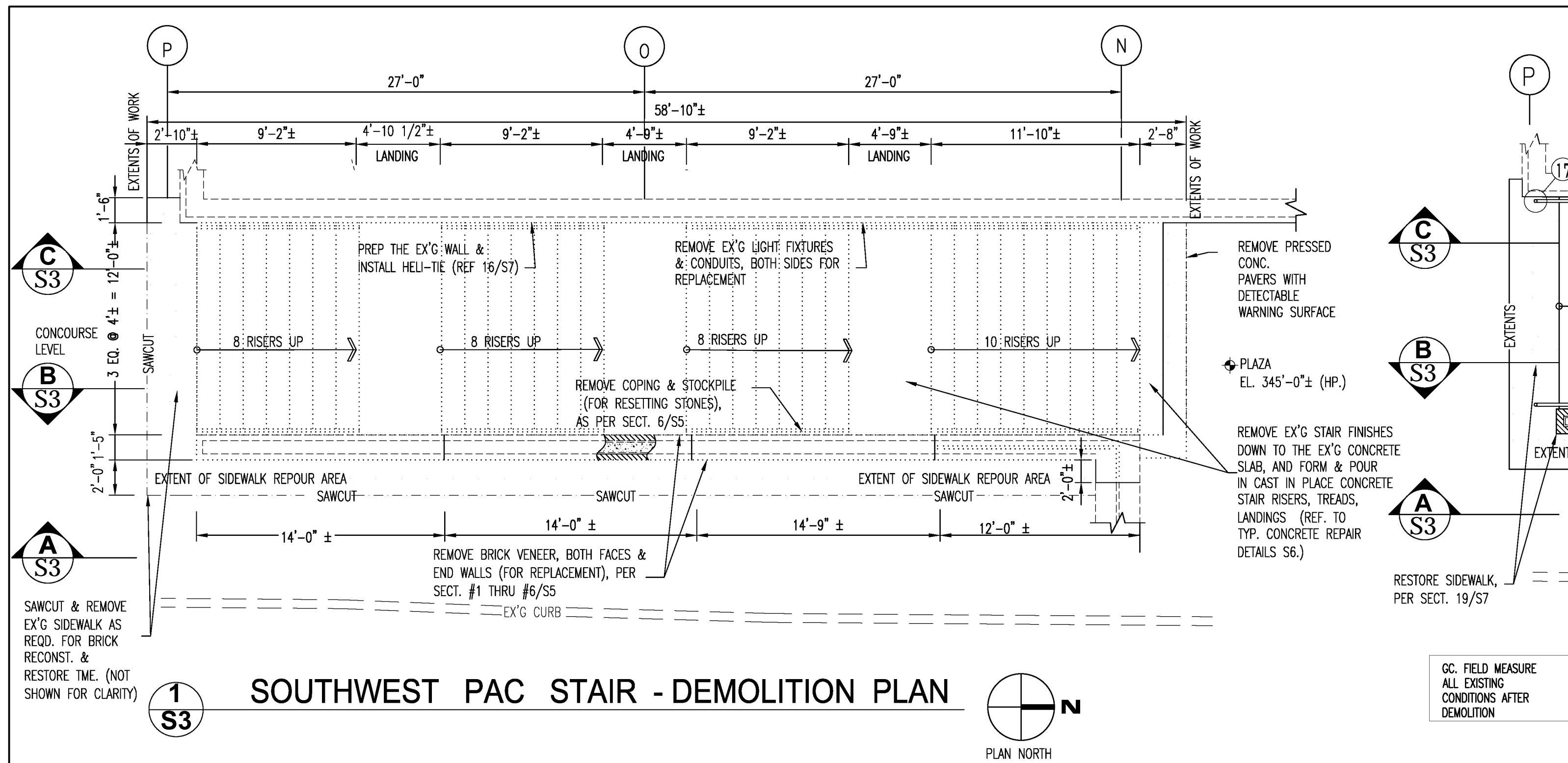
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DATE: 01-10-2020

DRAWING TITLE: **NORTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS**

DRAWING NUMBER: **S2 of 10**





## NOTES:

- STEPS & LANDINGS:** REMOVE, EXISTING STEP & LANDING FINISH. STOCKPILE OR DISPOSE OF THE STONE STEPS AND RISERS AS DIRECTED BY OWNER. FIELD MEASURE THE EX'G CONCRETE STEPPED SUBBASE. CONDUCT REPAIRS TO THE CONCRETE SUBBASE (SEE NOTE 2); FORM EQUAL HEIGHT RISERS FOR EACH GROUP OF STEPS; POUR NEW CONCRETE STEPS, RISERS, & LANDINGS AS FOLLOWS:
  - 5,000 PSI CONCRETE 28-DAY COMPRESSIVE STRENGTH, FIBER REINFORCED,
  - AIR ENTRAINMENT: 6-8%;
  - TINTED MIX: MOCHO-BROWN (REF. 03300 SPECIFICATIONS);
  - LANDING REINF. W/ 6 6 - W4.0 x W4.0 EPOXY-COATED WWF ON EPOXY-COATED MIDHEIGHT CHAIR RAILS (REF. SECT. 7/54);
  - EPOXY COATED NOSING BARS;
  - FIBER DOSING: POLYPROPYLENE PLASTIC FIBERS DOSED AT 3 LBS/CUBIC FOOT
  - LIGHT BROOM FINISH;
  - NOSING: 1" ROUNDED BULL-NOSING AT STAIR RISERS;
  - SEALER: APPLY SILANE SEALER (BARACADE WB 244 BY EUCLID OR EQUAL) AFTER 28-DAYS ON STAIR RISERS & TREADS;
  - EXTEND STAIR TOPPING SLAB TO FACE OF EXISTING CONCRETE WALLS ON BOTH SIDES, AS PER SECTION 1/54.
  - AT CONCOURSE LEVELS: THE SAWCUT & REMOVE EX'G SIDEWALK;
  - AT THE PLAZA LEVELS: CHIP EX'G CONCRETE & REPOUR
  - EXPANSION JOINTS (AS LOCATIONS SHOWN IN PLANS): 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT.
- STEP & LANDING SUBSTRATE:** REPAIR EXISTING STEPPED CONCRETE SUBBASE BELOW THE NEW C.I.P. CONCRETE RISERS, TREADS & LANDINGS, AS PER THE TYP. CONC. REPAIR DETAILS SHOWN ON DWG. S6.

## NOTES (Cont.)

- BRICK VENEERS @ STAIR WALLS:** REMOVE, FURNISH & REPLACE THE FACE BRICK AT BOTH SIDES OF THE STAIR WALLS W/ 50-50 PREBLEND EPOXY-SIENA MODULAR BRICK MANUF. BY BELDEN BRICK (I.E. TO MATCH CITL BUILDING) - REFER TO "BRICK REQUIREMENTS ON THIS SHEET".
- BRICK VENEER @ BUILDING WALLS ADJACENT STAIRS:** CONDUCT CRACK REPAIRS, PATCHING OF ABANDONED ELECTRICAL FIXTURES & CONDUIT, RAILING SUPPORT PATCHING, AND REPOINTING.
- STAIR HANDRAILS:** REPLACE THE EXISTING HANDRAILS W/ STAINLESS STEEL, WALL MOUNTED RAILINGS PER TYP. DETAILS. CONTRACTOR TO FIELD MEASURE EX'G CONDITIONS, PREPARE & SUBMIT SHOP DRAWINGS FOR APPROVAL.
- CONCRETE STAIR WALL SPALL & CRACK REPAIRS:** CONDUCT AT CONCRETE REPAIRS & CRACK REPAIRS PER TYP. DETAILS DWG. S5.
- COPING STONES:** RESET COPING STONES ON WALLS.
- STAINLESS STEEL GUARD RAILINGS:** 1" HIGH: REPLACE STAINLESS STEEL GUARD RAILS WHERE INDICATED, TO MATCH EXISTING (T.M.E.).

LEGEND	
	- CLIP CONC. REFER TO NOTE 1
	- EXISTING TO REMAIN
	- SIDEWALK/BOTTOM & TOP OF STAIR LANDING REMOVE & RECONSTRUCTION, REF. TYP. DETAILS DWG. S5 & S7
	- REMOVE & REPLACE FACE BRICK, TIES, INSERTS ETC. REF. SECTIONS 1-6, DWG. S4
	- REPOINT, PATCH, REPAIR FACE BRICK WALL, INSTALL HELICAL TIES AS SHOWN. INSTALL HELICAL TIES AS SHOWN
	- STAINLESS STEEL HAND RAILINGS, BRACKETS, POSTS
	- LIGHT FIXTURE W/ 30" ABOVE STAIR LEVEL (TYP. FOR 7 AT EACH STAIR). REFER TO SHEET E1 FOR ELECTRICAL INFORMATION.
	- 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT (REF. SPECIFICATIONS).
	- 2" x 10" DETECTABLE WARNING INSERTS INTO WET PAVEMENT AT TOP OF LANDING OF ALL FOUR (4) PAC STAIRS

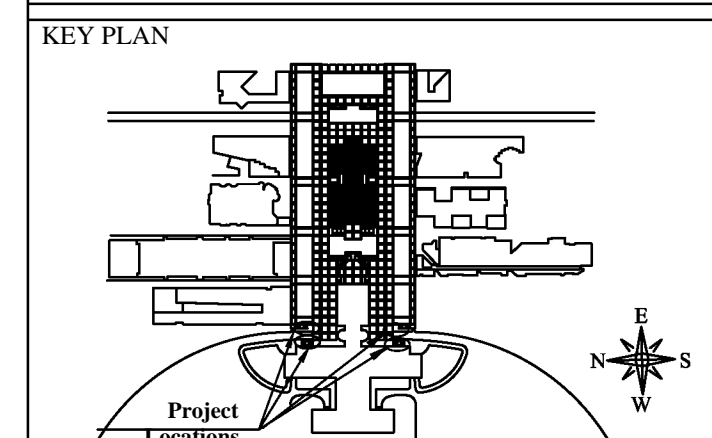
DRAWING LIST:	
N1	- NOTES & SPECIFICATIONS (SHEET 1 OF 2)
N2	- NOTES & SPECIFICATIONS (SHEET 2 OF 2)
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S4	- SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS
S5	- STAIR RESTORATION DETAILS
S6	- STAIR RESTORATION DETAILS
S7	- STAIR RESTORATION DETAILS
E1	- PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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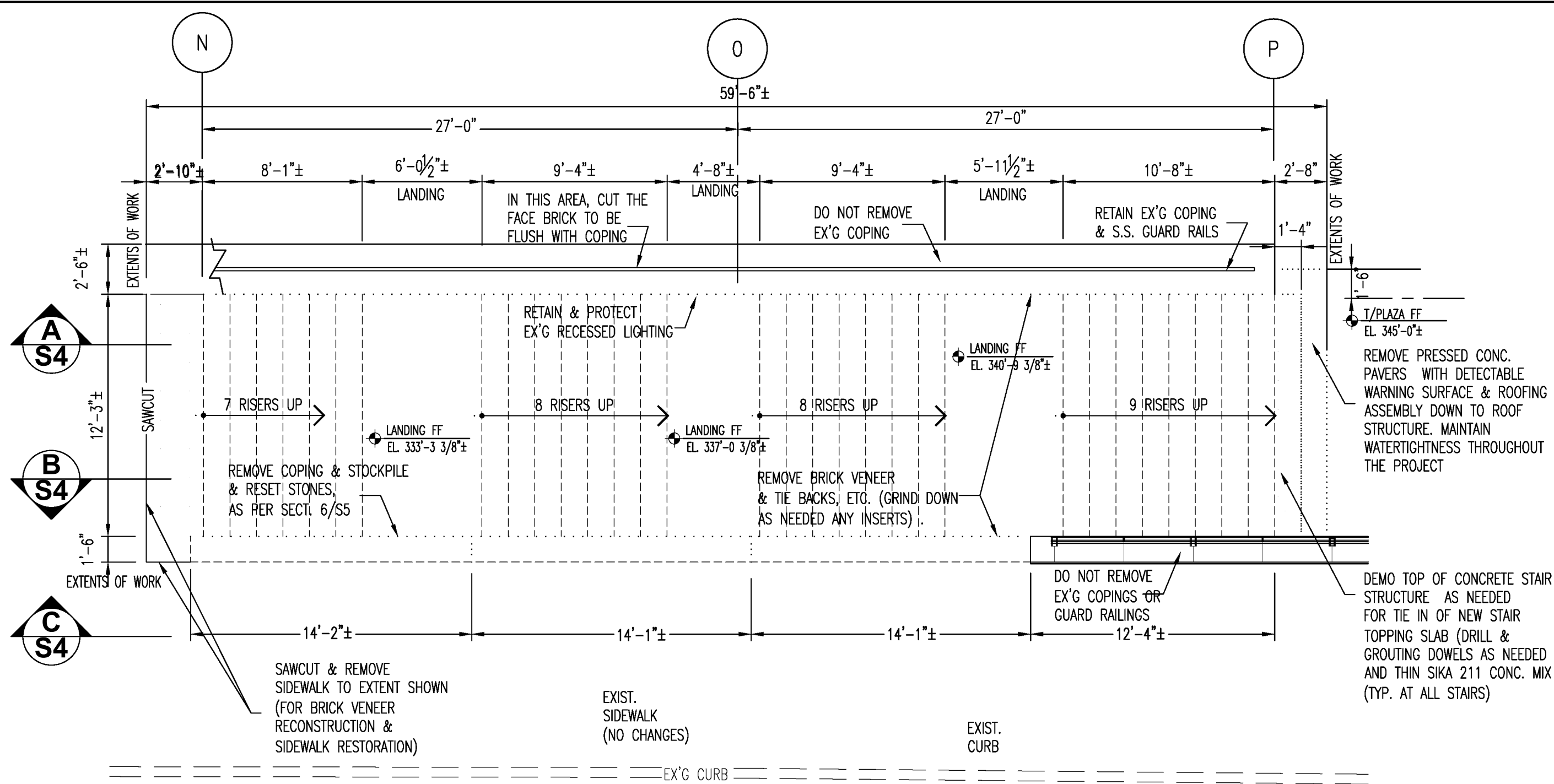
Location: Performing Arts Center

Project Name:  
**RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

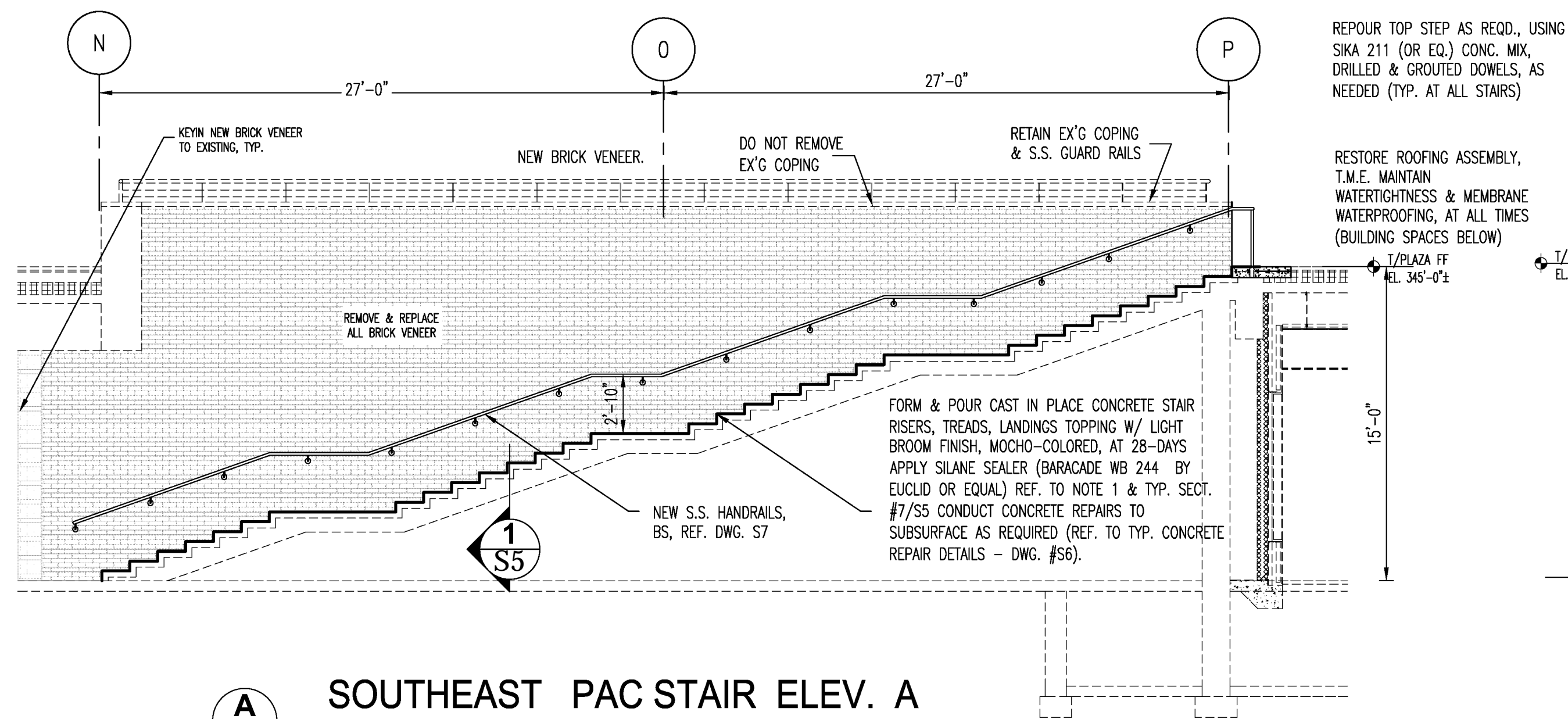
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DATE: 01-10-2020

DRAWING TITLE:  
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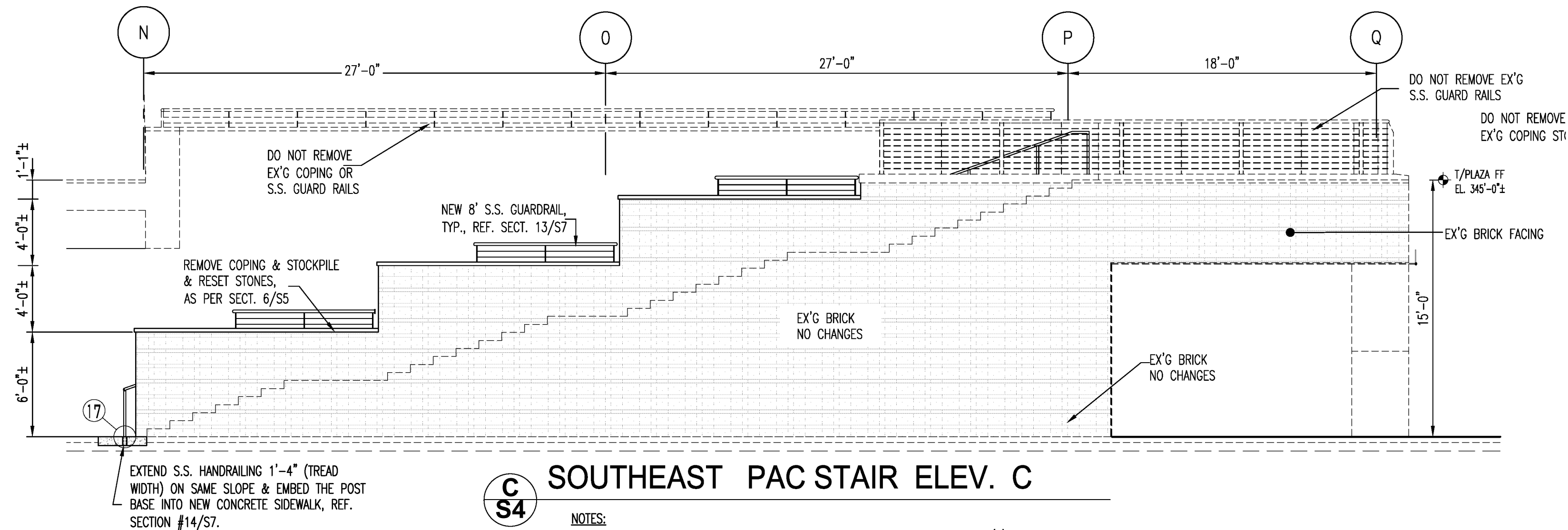
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**S3 of 10**



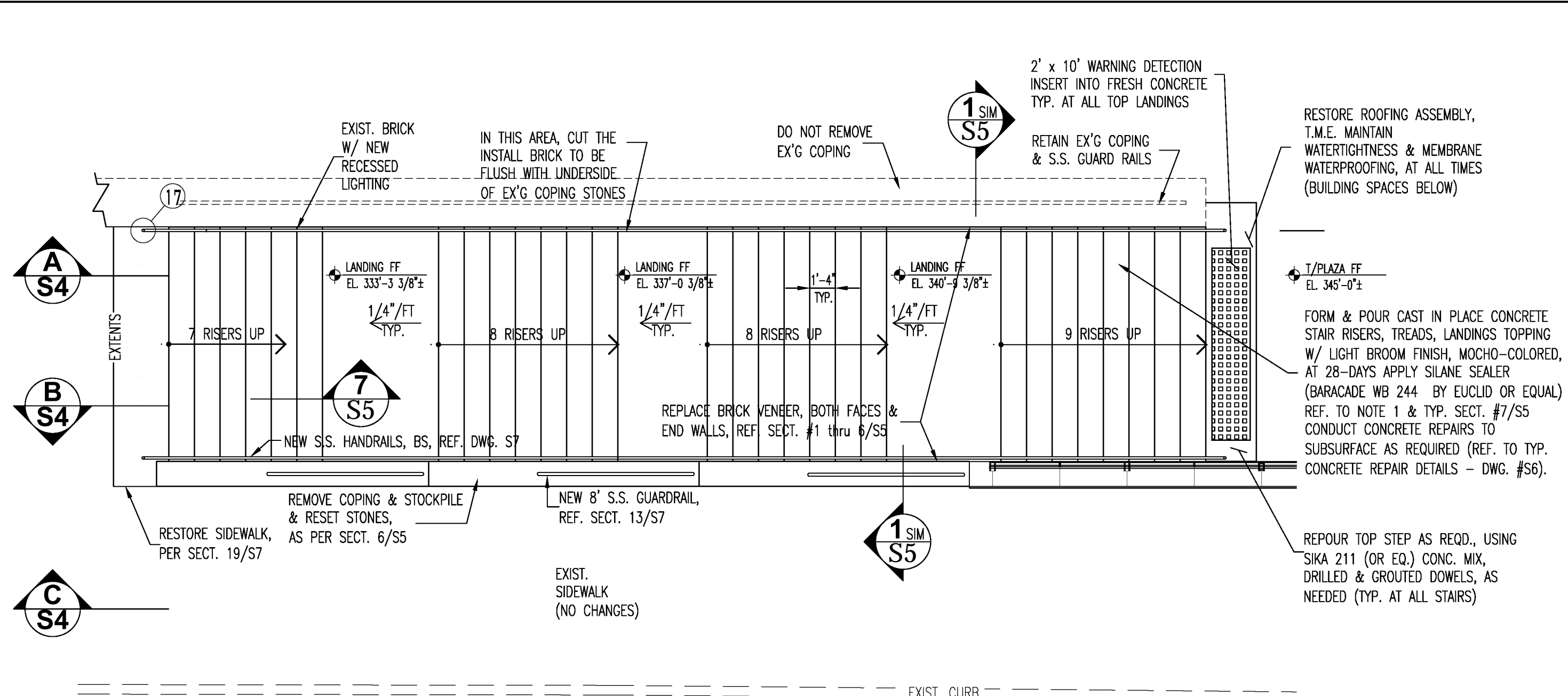
**1 S4** SOUTHEAST PAC STAIR - DEMOLITION PLAN



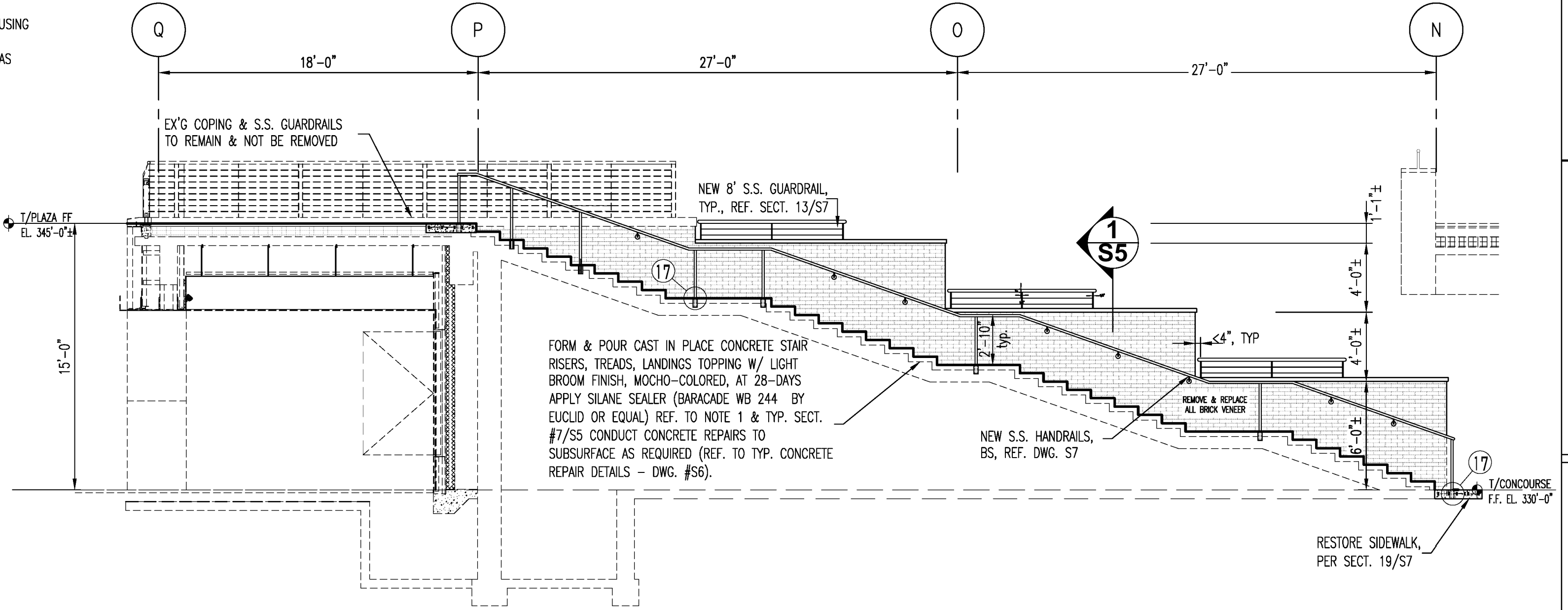
**A S4** SOUTHEAST PAC STAIR ELEV. A



**C S4** SOUTHEAST PAC STAIR ELEV. C



**2 S4** SOUTHEAST PAC STAIR - PROPOSED PLAN



**B S4** SOUTHEAST PAC STAIR ELEV. B

#### NOTES:

- STEPS & LANDINGS:** REMOVE, EXISTING STEP & LANDING FINISH STOCKPILE OR DISPOSE OF THE STONE STEPS AND RISERS AS DIRECTED BY OWNER. FIELD MEASURE THE EX'G CONCRETE STEPPED SUBBASE. CONDUCT REPAIRS TO THE CONCRETE SUBBASE (SEE NOTE 2); FORM EQUAL HEIGHT RISERS FOR EACH GROUP OF STEPS; POUR NEW CONCRETE STEPS, RISERS, & LANDINGS AS FOLLOWS:
  - 5,000 PSI CONCRETE 28-DAY COMPRESSIVE STRENGTH, FIBER REINFORCED,
  - AIR ENTRAINMENT: 6-8%,
  - TINTED MIX: MOCHO-BROWN (REF. 03300 SPECIFICATIONS);
  - LANDING REIN. W/ 6 #6 - W4.0 x W4.0 EPOXY-COATED WWF ON EPOXY-COATED MIDHEIGHT CHAIR RAILS (REF. SECT. 7/S4);
  - EPOXY COATED NOSING BARS;
  - FIBER DOSING: POLYPROPYLENE PLASTIC FIBERS DOSED AT 3 LBS/CUBIC FOOT
  - LIGHT BROOM FINISH;
  - NOSING: 1" ROUNDED BULL-NOSING AT STAIR RISERS;
  - SEALER: APPLY SILANE SEALER (BARACADE WB 244 BY EUCLID OR EQUAL) AFTER 28-DAYS ON STAIR RISERS & TREADS;
  - EXTEND STAIR TOPPING SLAB TO FACE OF EXISTING CONCRETE WALLS ON BOTH SIDES, AS PER SECTION 1/S4.
  - AT CONCOURSE LEVELS: THE SAWCUT & REMOVE EX'G SIDEWALK;
  - AT THE PLAZA LEVELS: CHIP EX'G CONCRETE & REPOUR
  - EXPANSION JOINTS (AS LOCATIONS SHOWN IN PLANS): 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT.
- STEP & LANDING SUBSTRATE:** REPAIR EXISTING STEPPED CONCRETE SUBBASE BELOW THE NEW C.I.P. CONCRETE RISERS, TREADS & LANDINGS, AS PER THE TYP. CONC. REPAIR DETAILS SHOWN ON DWG. S6.

#### NOTES (Cont.)

- BRICK VENEERS @ STAIR WALLS:** REMOVE, FURNISH & REPLACE THE FACE BRICK AT BOTH SIDES OF THE STAIR WALLS w/ 50-50 PREBLENDED EBONY-SIENA MODULAR BRICK MANUF. BY BELDEN BRICK (I.E. TO MATCH CITL BUILDING) - REFER TO "BRICK REQUIREMENTS ON THIS SHEET".
- BRICK VENEER @ BUILDING WALLS ADJACENT STAIRS:** CONDUCT CRACK REPAIRS, PATCHING OF ABANDONED ELECTRICAL FIXTURES & CONDUIT, RAILING SUPPORT PATCHING, AND REPOINTING.
- STAIR HANDRAILS:** REPLACE THE EXISTING HANDRAILS W/ STAINLESS STEEL, WALL MOUNTED RAILINGS PER TYP. DETAILS. CONTRACTOR TO FIELD MEASURE EX'G CONDITIONS, PREPARE & SUBMIT SHOP DRAWINGS FOR APPROVAL.
- CONCRETE STAIR WALL SPALL & CRACK REPAIRS:** CONDUCT AT CONCRETE REPAIRS & CRACK REPAIRS PER TYP. DETAILS DWG. S5.
- COPING STONES:** RESET COPING STONES ON WALLS.
- STAINLESS STEEL GUARD RAILINGS, 1" HIGH:** REPLACE STAINLESS STEEL GUARD RAILS WHERE INDICATED, TO MATCH EXISTING (T.M.E.).

LEGEND	
	- C.I.P. CONC. REFER TO NOTE 1
	- EXISTING TO REMAIN
	- SIDEWALK/BOTTOM & TOP OF STAIR LANDING REMOVAL & RECONSTRUCTION, REF. TYP. DETAILS DWG. S5 & S7.
	- REMOVE & REPLACE FACE BRICK, TIES, INSERTS ETC. REF. SECTIONS 1-4, DWG. S4
	- REPOINT, PATCH, REPAIR FACE BRICK WALL, INSTALL HELICAL TIES AS SHOWN. INSTALL HELICAL TIES AS SHOWN
	- STAINLESS STEEL HAND RAILINGS, BRACKETS, POSTS
	- LIGHT FIXTURE W/ 30" ABOVE STAIR LEVEL (TYP. FOR 7 AT EACH STAIR). REFER TO SHEET E1 FOR ELECTRICAL INFORMATION.
	- 1" PREMOLDED EXP. JOINT FILLER BACKERROD, NONSAG POLYURETHANE SEALANT (REF. SPECIFICATIONS).
	- 2' x 10' DETECTABLE WARNING INSERTS INTO WET PAVEMENT AT TOP OF LANDING OF ALL FOUR (4) PAC STEPS

**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 - SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS  
 S5 - STAIR RESTORATION DETAILS  
 S6 - STAIR RESTORATION DETAILS  
 S7 - STAIR RESTORATION DETAILS  
 E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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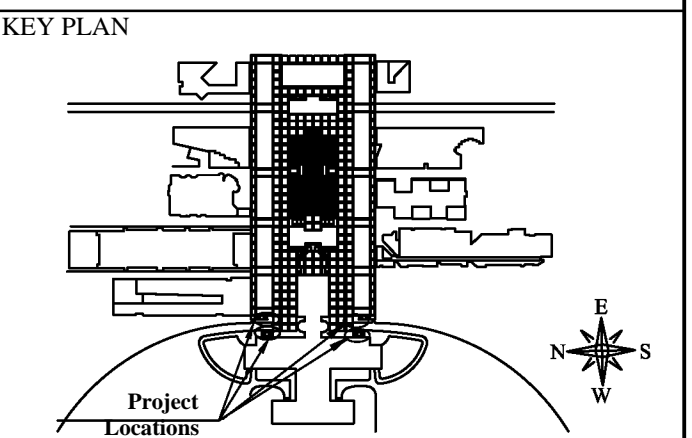
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Location: Performing Arts Center

Project Name:  
**RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

Project Number: SU-111919

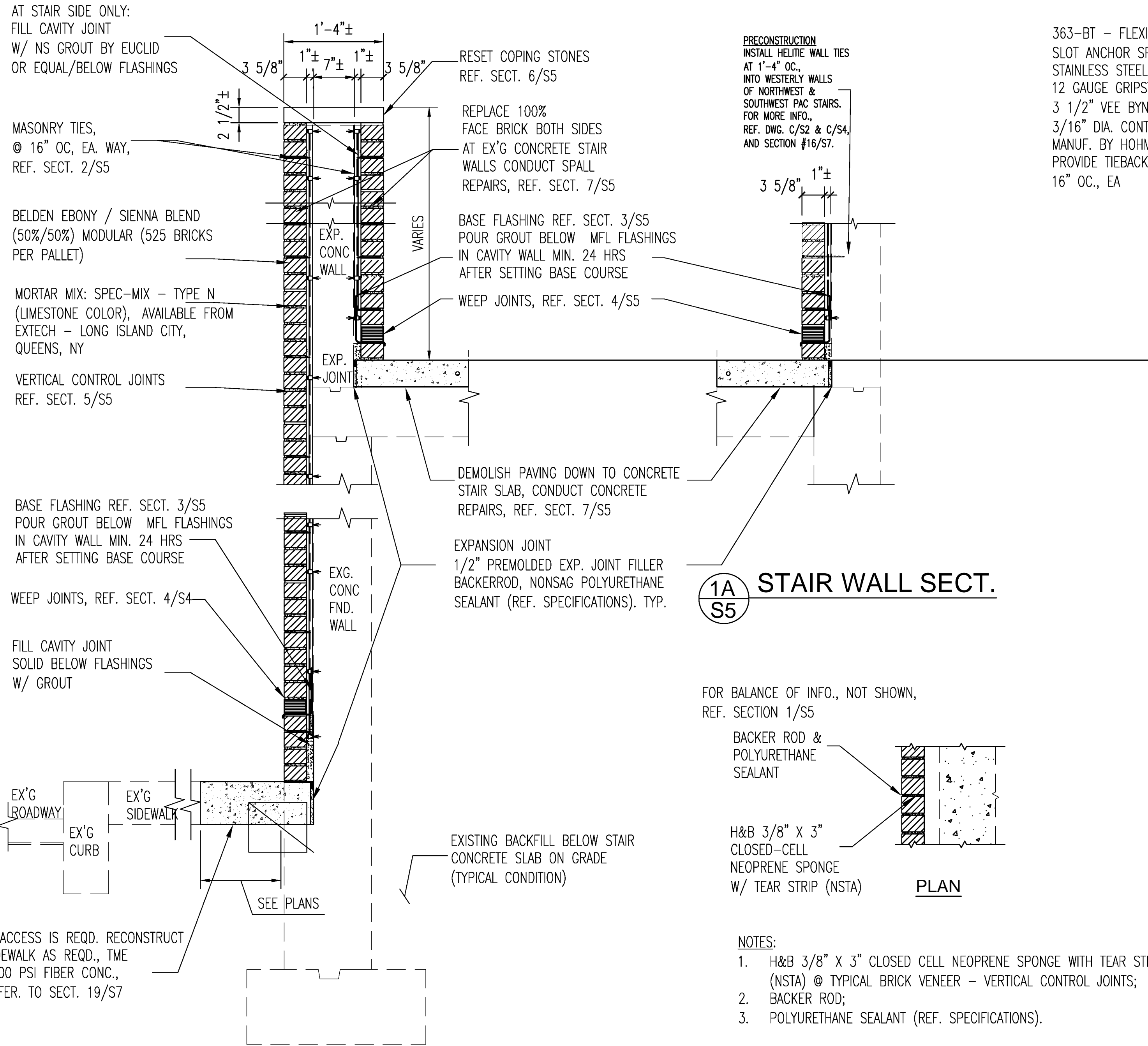
Scale: 3/16" = 1'-0"

DATE: 01-10-2020

DRAWING TITLE:  
**SOUTHEAST PAC STAIR RESTORATION PLANS & ELEVATIONS**

DRAWING NUMBER:  
**S4 of 10**



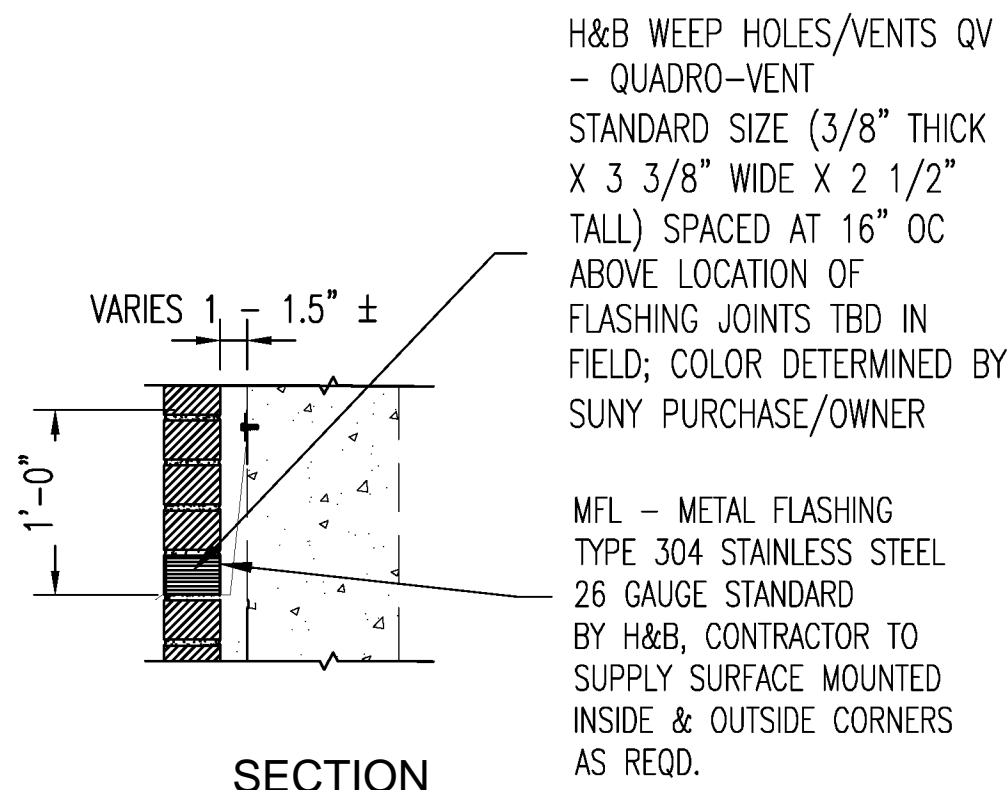


1  
S5

TYP. STAIR WALL SECTION

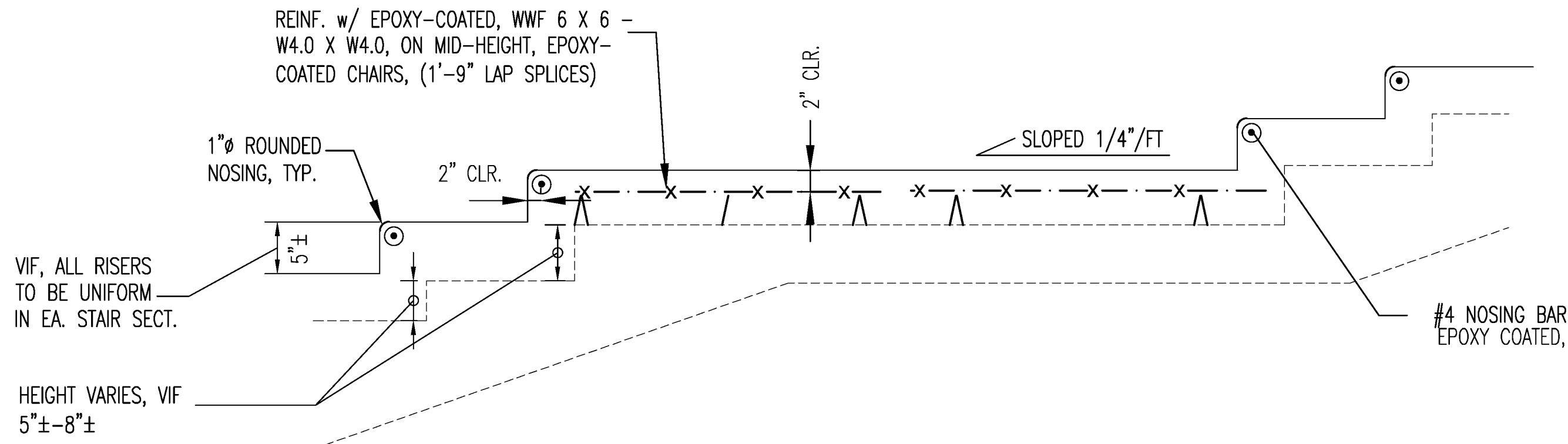
5  
S5

VERTICAL CONTROL JOINTS



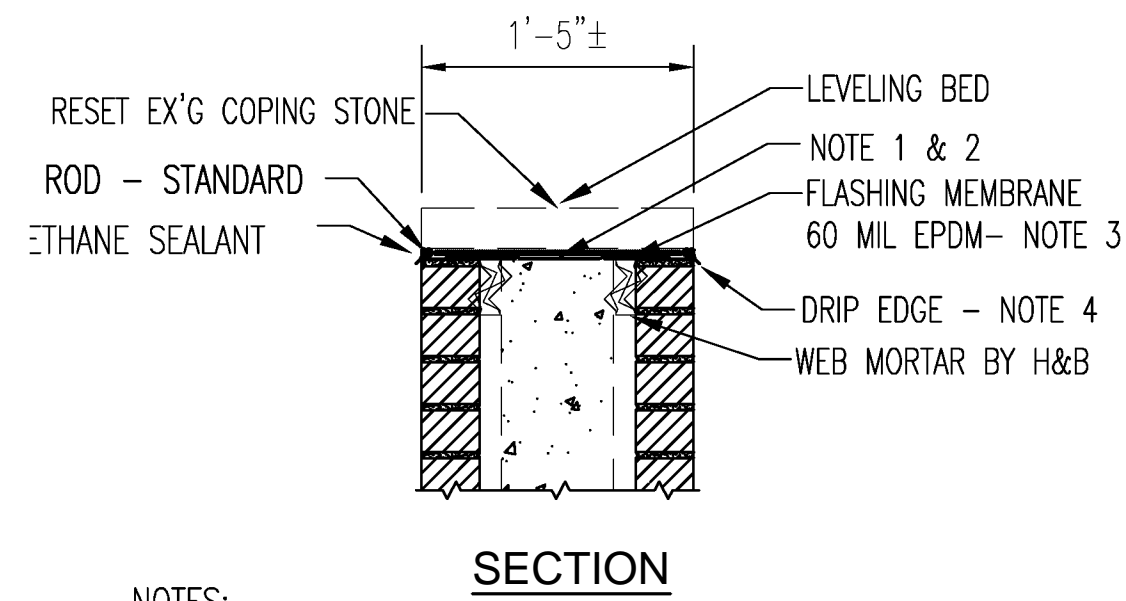
4  
S4

WEEP JOINT SECTION



7  
S4

TYPICAL SLAB DETAIL



- NOTES:
- REQUIRED PREPARATION WORK SHALL INCLUDE THOROUGHLY  
CLEANING THE EXISTING SUBSTRATE PRIOR TO INSTALLING  
THRUWALL FLASHING SYSTEM.
  - APPLY H&B PRIMER ADHESIVE AS NEEDED.
  - EPRA-MAX EPDM THRU-WALL FLASHING - INSTALLED PER MANUF.  
REQUIREMENTS;
  - 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 NEEDED.

6  
S5

COPING STONE FLASHING

## 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

### 362-C GRIPSTAY CHANNEL

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 AND 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

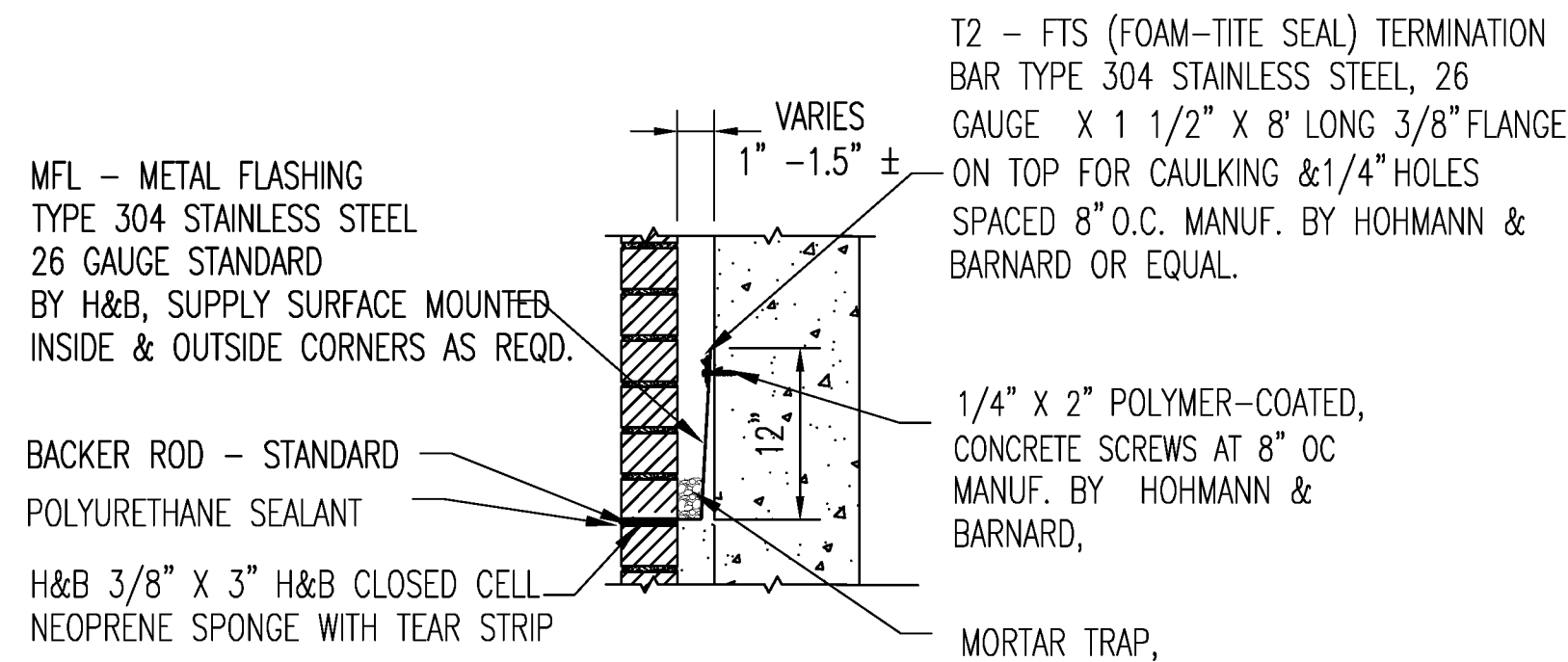
### MFL - METAL FLASHING

TYPE 304 STAINLESS STEEL  
26 GAUGE STANDARD  
BY H&B,  
FOR SIZE SEE DETAILS FOR DIMENSIONS  
SUPPLY SURFACE MOUNTED  
& 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 NEEDED  
EPRA-MAX EPDM THRU-WALL FLASHING - INSTALLED PER MANUF. REQUIREMENTS

MORTAR WEB - MORTAR COLLECTION & SUSPENSION SYSTEMS



### NOTES:

- KEEP MORTAR OUT OF THE COLLAR JOINT (1" GAP BETW.  
NEW 4" VENEER & EX'G. REINF. CONC. WALLS);
- INSTALL 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.

3  
S5

MFL - METAL FLASHING  
BASE FLASHING DETAILS

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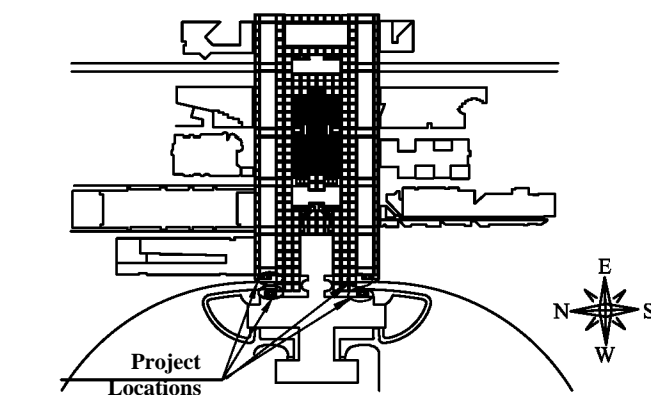
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### KEY PLAN



Location: Performing Arts Center

Project Name:

## RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)

Project Number: SU-111919

Scale: Not to Scale

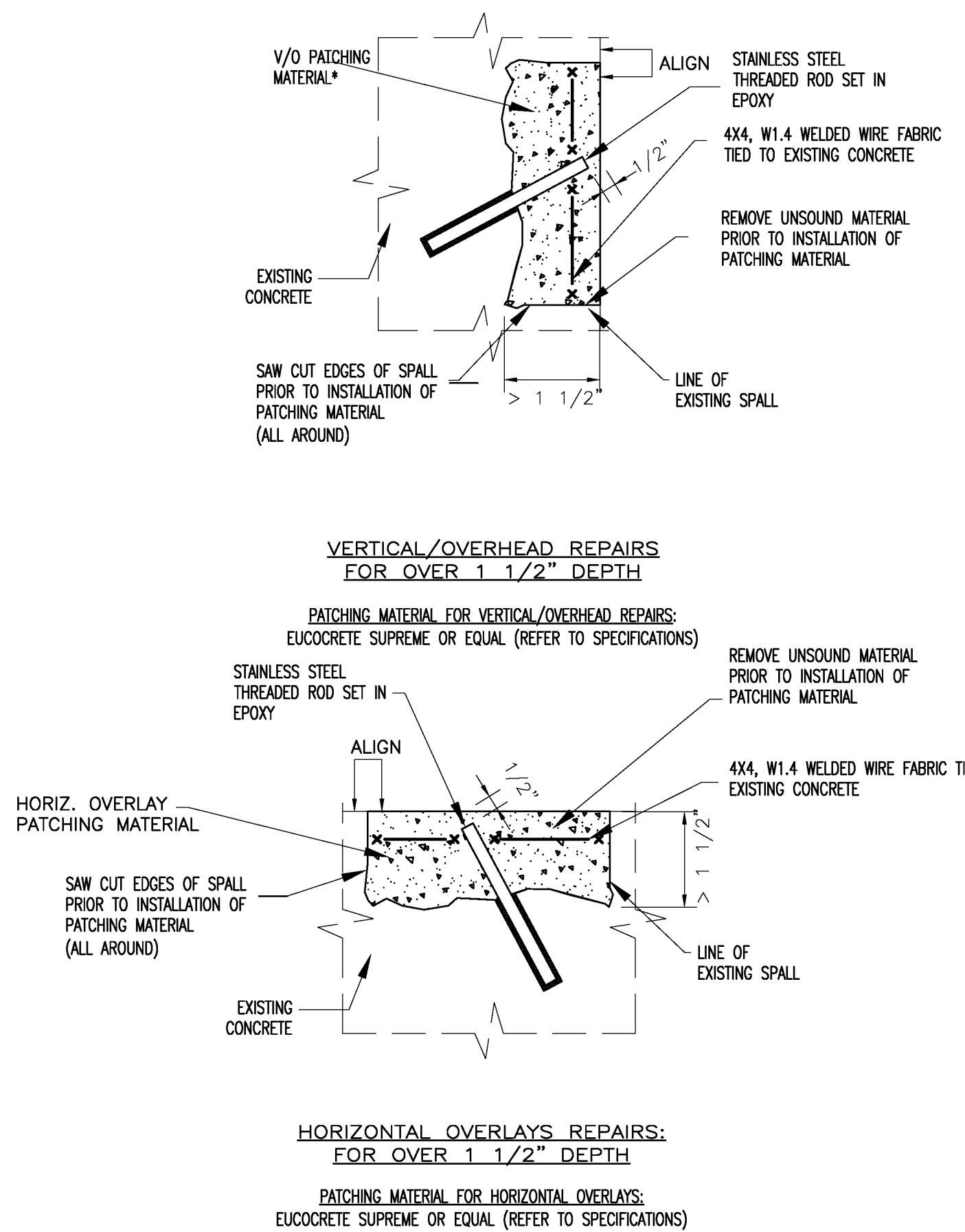
DATE: 01-10-2020

DRAWING TITLE:

## PAC STAIR RESTORATION DETAILS SHEET #1

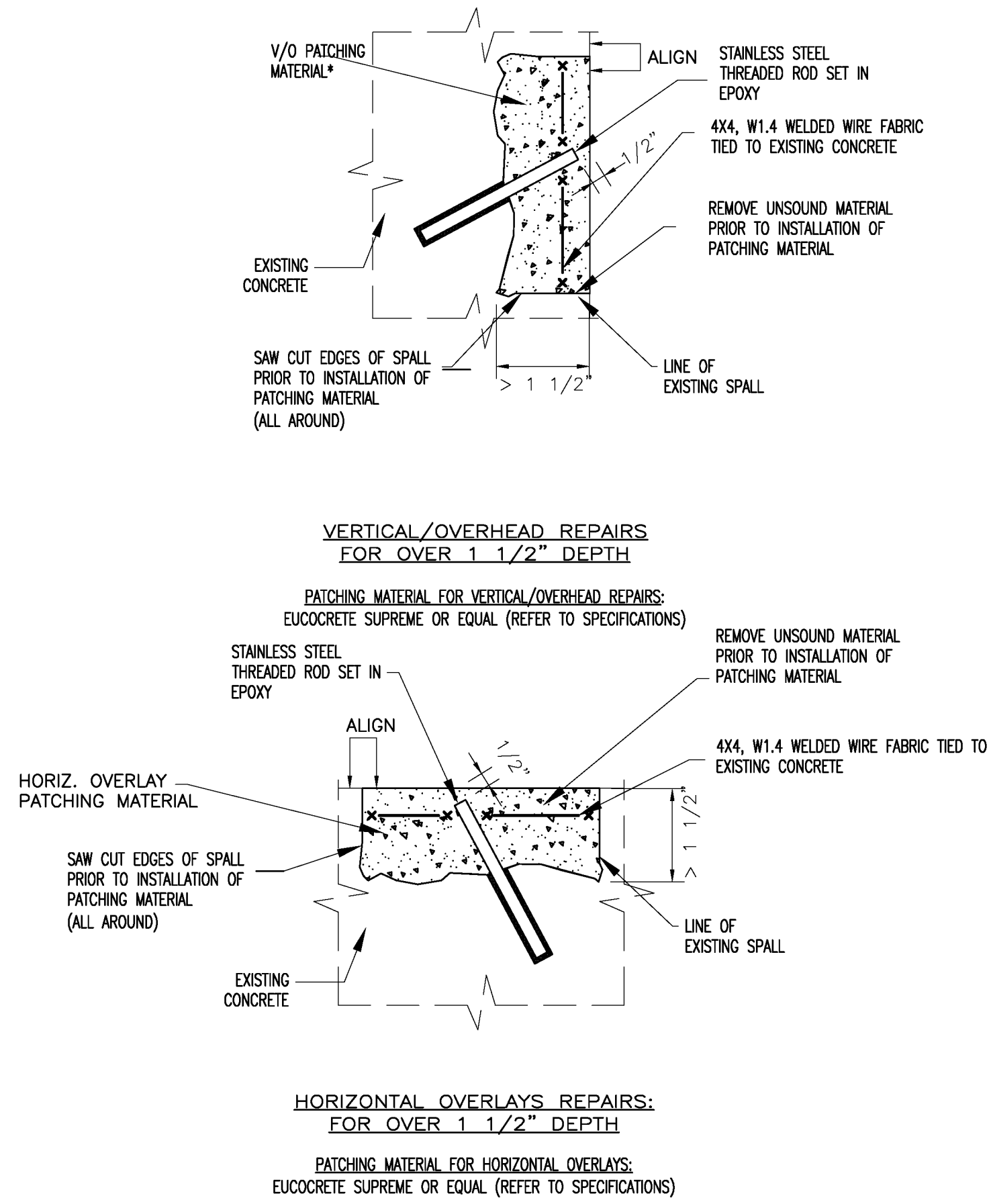
DRAWING NUMBER:

S5 of 10



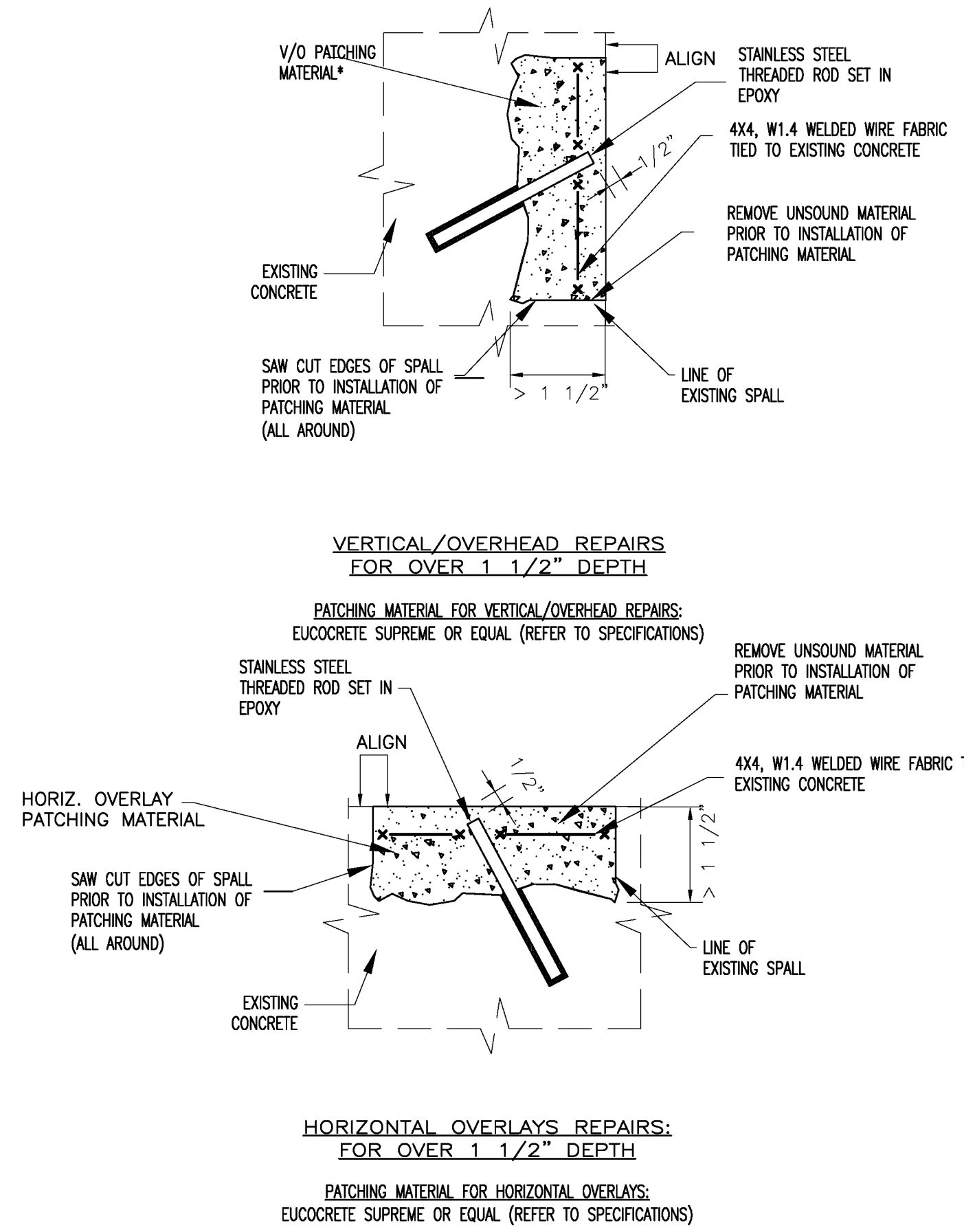
6A

SECT. 6A - TYPICAL CONC. SPALL REPAIR  
(SPALLS GREATER THAN 1 1/2" IN DEPTH)



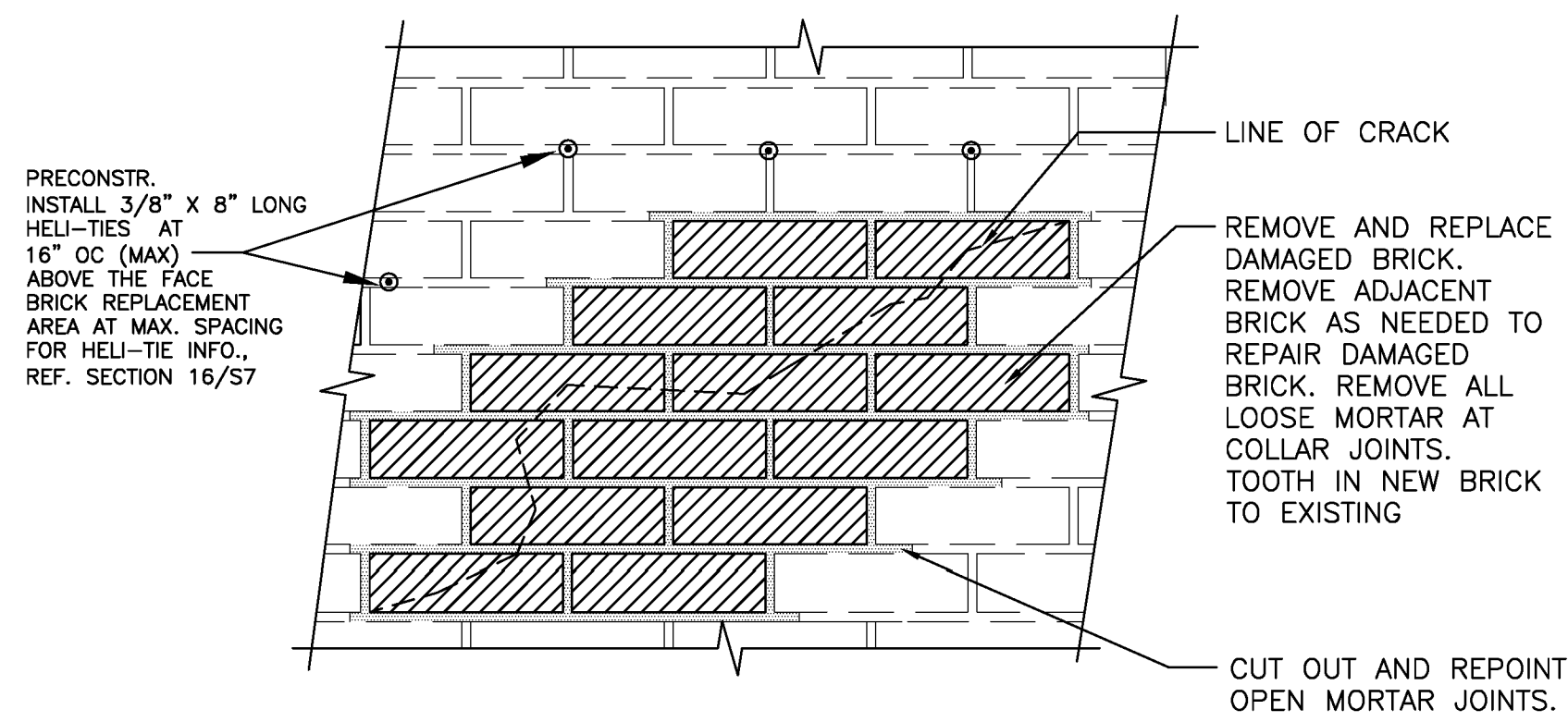
6B

SECT. 6B TYPICAL CONC. SPALL REPAIR  
(SPALLS LESS THAN 1" IN DEPTH)



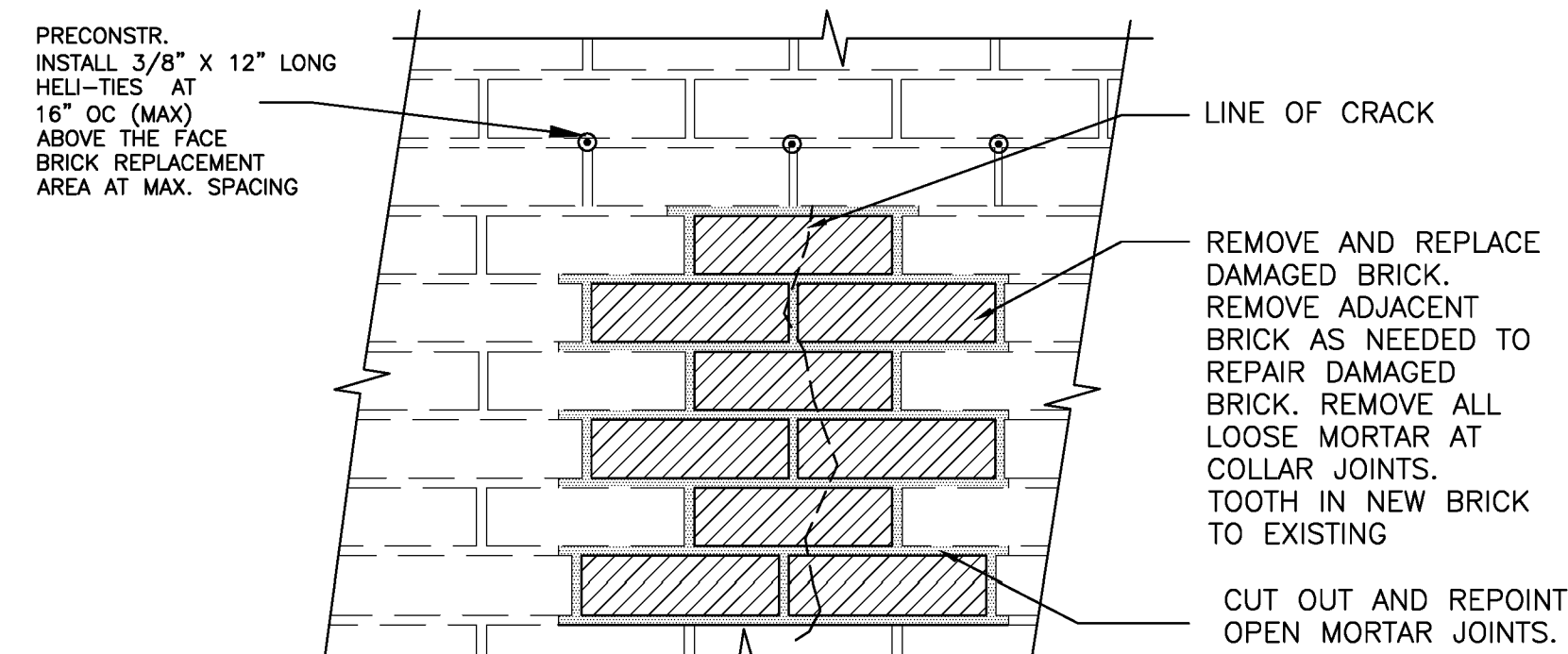
6C

SECT. 6C - TYPICAL CONC. SPALL REPAIR  
(SPALLS REPAIRS BETW. 1" - 1 1/2" IN DEPTH)



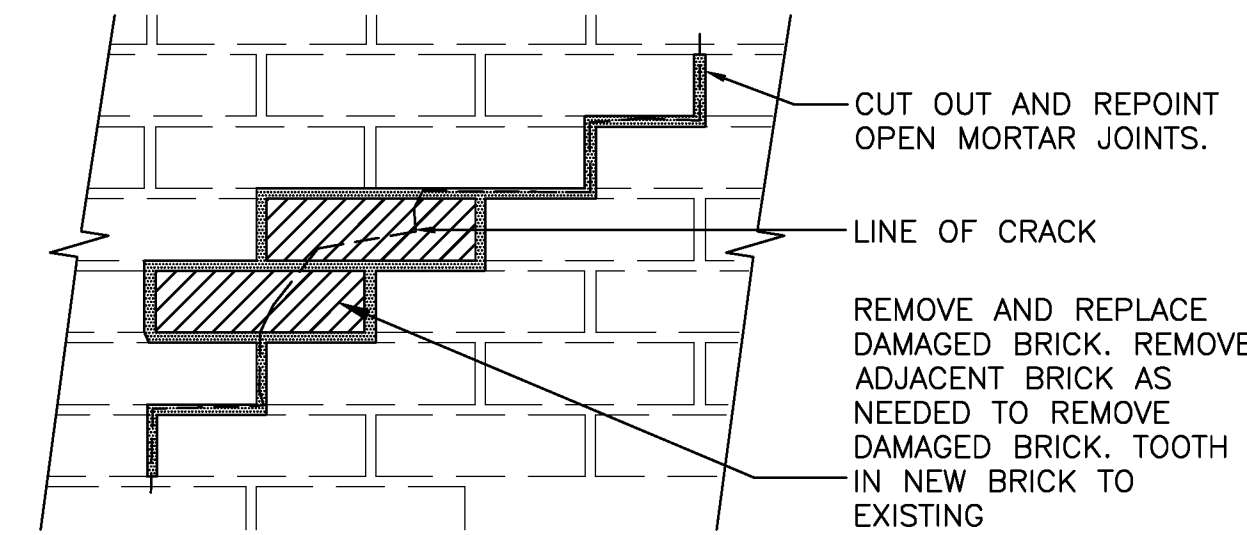
8A

TYPICAL DIAGONAL CRACKING  
BRICK REPAIR DETAIL



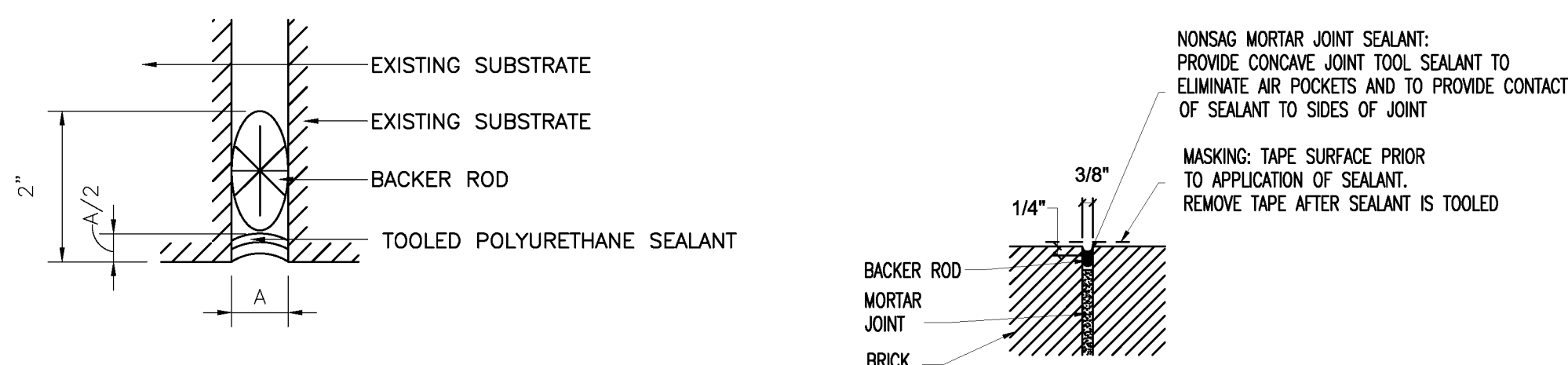
8B

TYPICAL VERTICAL CRACKING  
BRICK REPAIR DETAIL



8C

TYPICAL MORTAR JOINT  
REPAIR DETAY.

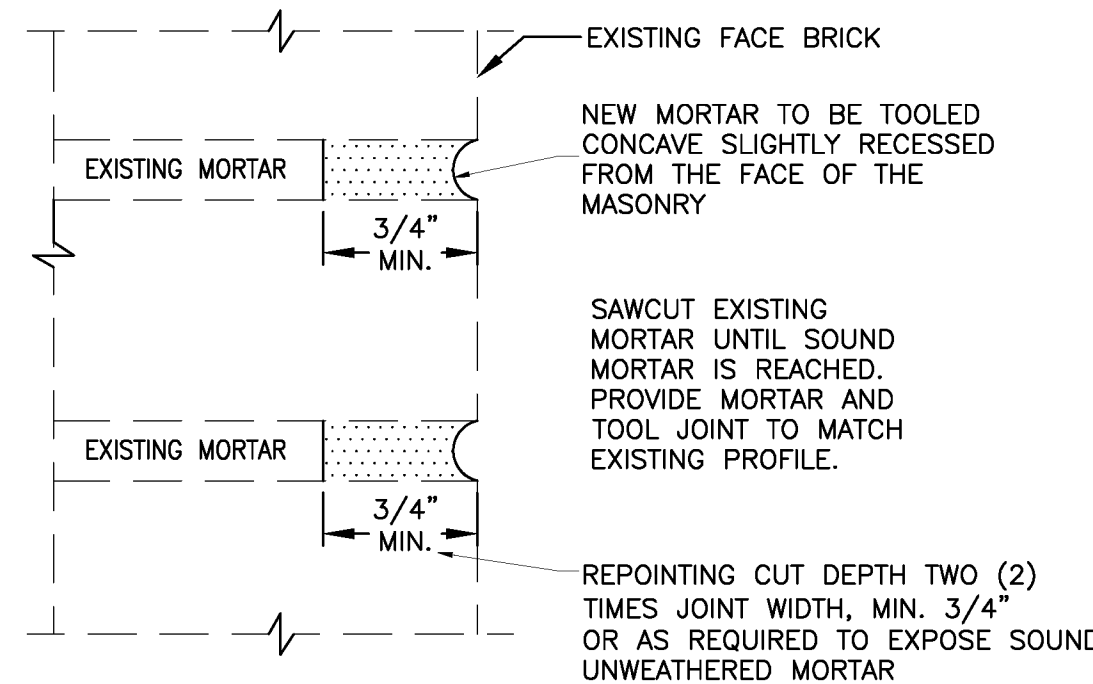


9

TYPICAL SEALANT JOINT DETAIL  
(NON-BRICK)

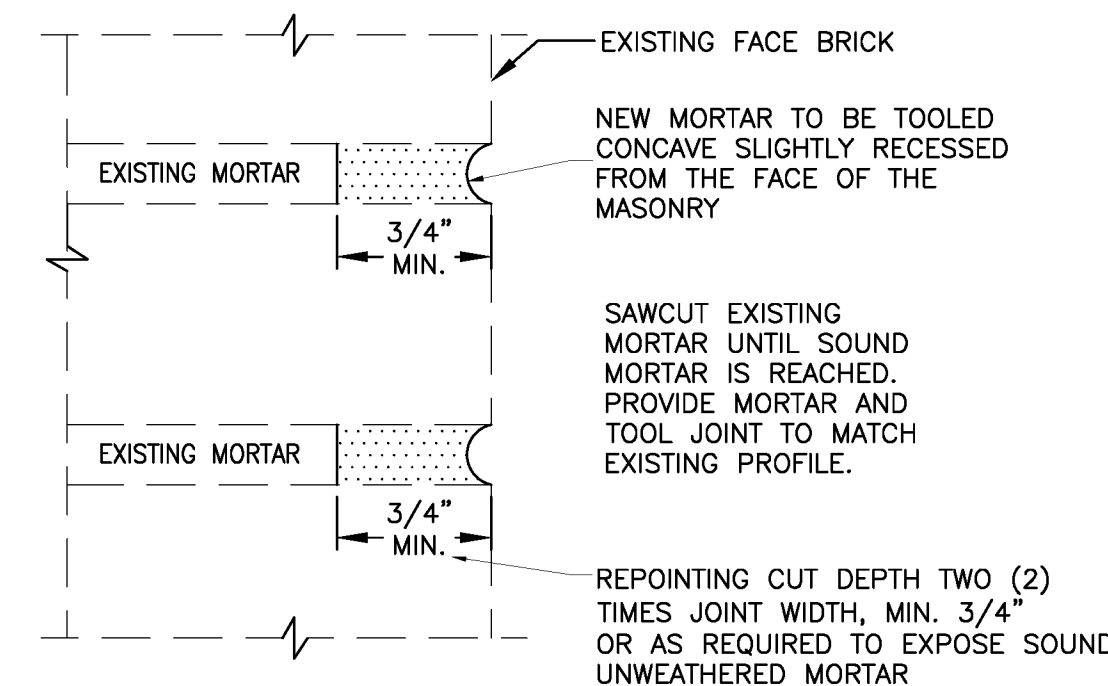
10

TYPICAL BRICK JOINT  
SEALANT DETAIL



11

TYPICAL BRICK  
REPOINTING DETAIL



12

TYPICAL SLAB DETAIL

DRAWING LIST:  
N1 - NOTES & SPECIFICATIONS (SHEET 1 OF 2)  
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S6 - STAIR RESTORATION DETAILS  
S7 - STAIR RESTORATION DETAILS  
E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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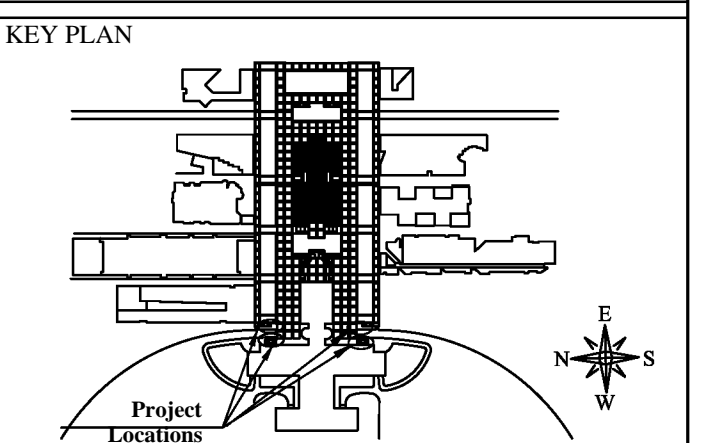
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Location: Performing Arts Center

Project Name:  
**RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

Project Number: SU-111919

Scale: Not to Scale

DATE: 01-10-2020

DRAWING TITLE:

**PAC STAIR RESTORATION DETAILS SHEET #2**

DRAWING NUMBER:

**S6 of 10**

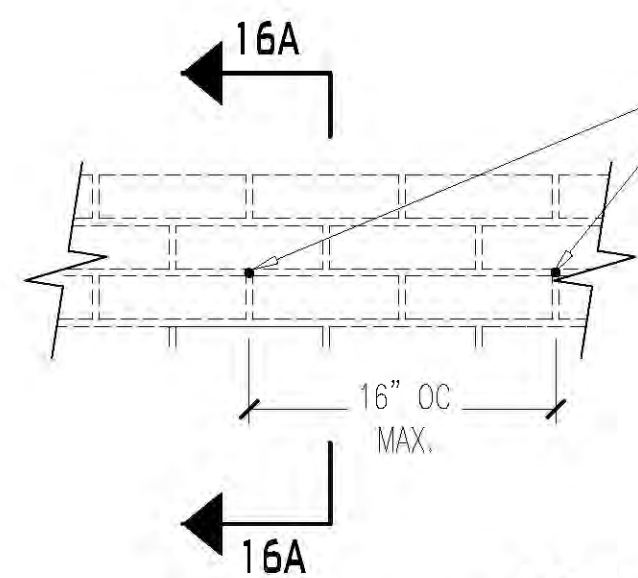




(13

NOTES:

- INSTALL SIMPSON STRONG-TIE  
MODEL # HELI-37-1200A (8"  
X 3/8" DIA.- A304 STAINLESS  
STEEL HELI-TIE). SPACE TIES AT  
MAXIMUM OF 16" OC.,  
PRIOR TO STARTING ANY  
MASONRY WORK AT THE  
WESTERLY FACES OF THE  
SOUTHWEST PAC STAIR &  
NORTHWEST PAC STAIR



## 16

PRECONSTRUCTION  
INSTALL HELITITE WALL TIE  
WYTHE BRICK

16A

NOTES:

1. CONTRACTOR SHALL CONDUCT THE FOLLOWING PREPARATION WORK:
  - REMOVE AND RELOCATE THE SIGNS AT THE SOUTHWEST & NORTHWEST AS DIRECTED BY COLLEGE;
  - REMOVE THE FIXTURES & CONDUIT WIRING;
  - CAP LIGHT FIXTURES, & PROTECT LOOSE WIRING.
  - POWER WASH THE EXTERIOR BUILDING WALLS: REMOVE ALGAE GROWTH/DIRT BY GENTLY POWER WASHING THE FACE BRICK IN DOWNWARD DIRECTION TO AVOID WATER SPRAY INSIDE THE BUILDING THRU OPEN JOINTS AROUND THE WINDOWS. ALLOW SUFFICIENT TIME TO DRY PRIOR TO CONDUCTING OTHER REPAIRS.
2. INSTALL HELI-TIES: SIMPSON STRONG-TIE MODEL # HELI-37-1200A (8" X 3/8" DIA.- A304 STAINLESS STEEL HELI-TIE), SPACED AT 1'-4" OC (MAXIMUM), BELOW THE CENTER OF 8" WIDE BRICK, & MINSTALL HELICAL TIE AS PER MANUF. REQMTS. COUNTERSINK THE HELI-TIES A MINIMUM 1/2" AT THE FOLLOWING LOCATIONS:
  - LOCATION #1: INSTALL "HELI-TIES" AT WEST FACE OF THE NORTHWEST STAIR, AS SHOWN ON ELEVATION C/S1.
  - LOCATION #2: INSTALL "HELI-TIES" AT WEST FACE OF THE SOUTHWEST STAIR, AS SHOWN ON ELEVATION C/S3.



NOTES

- 
- POST: 1 1/2" Ø S.S., SEAMLESS PIPE, 10 GA.
- 2"
- 6"
- WATERSTOP SEALANT ALL AROUND POST BASE
- 3" X 6" CORE DRILL EMBED PIPE A MIN. w/ HILTI HIT-HY 200-R ADHESIVE. USE TRADITIONAL HOLE CLEANING METHOD.
- 1 1/2" 1 1/2"

## DETAIL

NOTES:

- 

(15)

NOTES

- DRAWING LIST:**
- N1 - NOTES & SPECIFICATIONS (SHEET 1 OF 2)  
N2 - NOTES & SPECIFICATIONS (SHEET 2 OF 2)  
S1 - NORTHWEST PAC STAIR RESTORATION PLANS & ELEVATIONS  
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S5 - STAIR RESTORATION DETAILS  
S6 - STAIR RESTORATION DETAILS  
S7 - STAIR RESTORATION DETAILS  
E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

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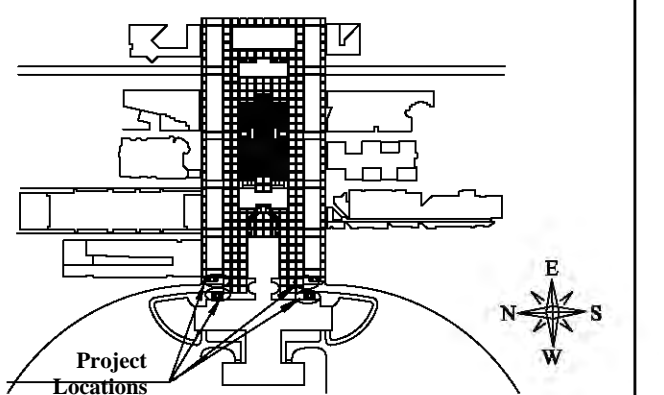
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## KEY PLAN



Location: Performing Arts Center

Project Name:

RESTORATION OF  
FOUR (4) STAIRS  
at  
PERFORMING ARTS  
CENTER (PAC)

Project Number: SU-111919

Scale: Not to Scale

DATE: 01-10-2020

DRAWING TITLE:

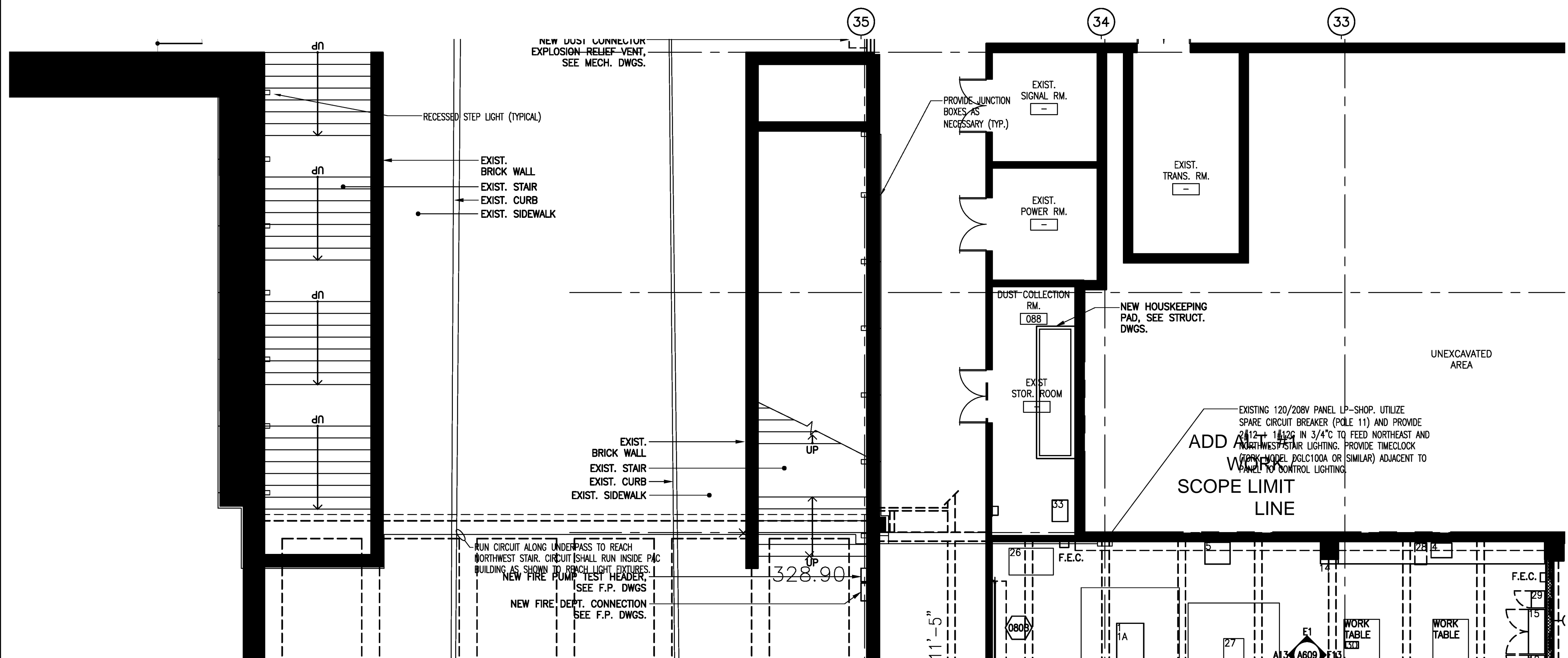
# PAC STAIR RESTORATION DETAILS SHEET #3

DRAWING NUMBER:

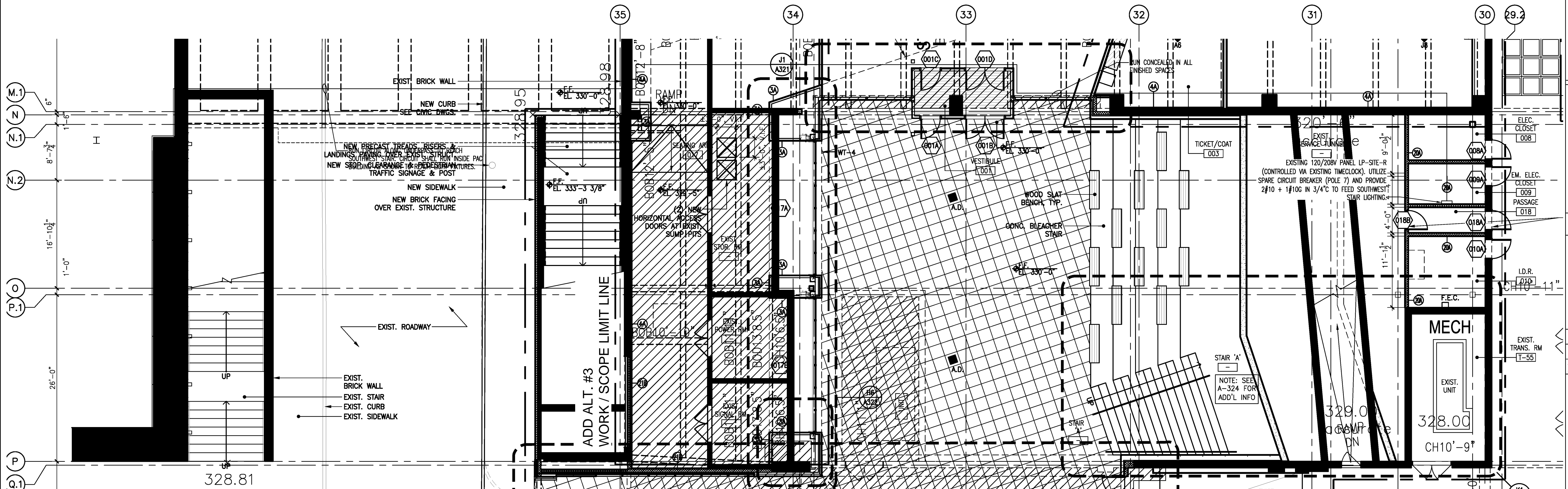
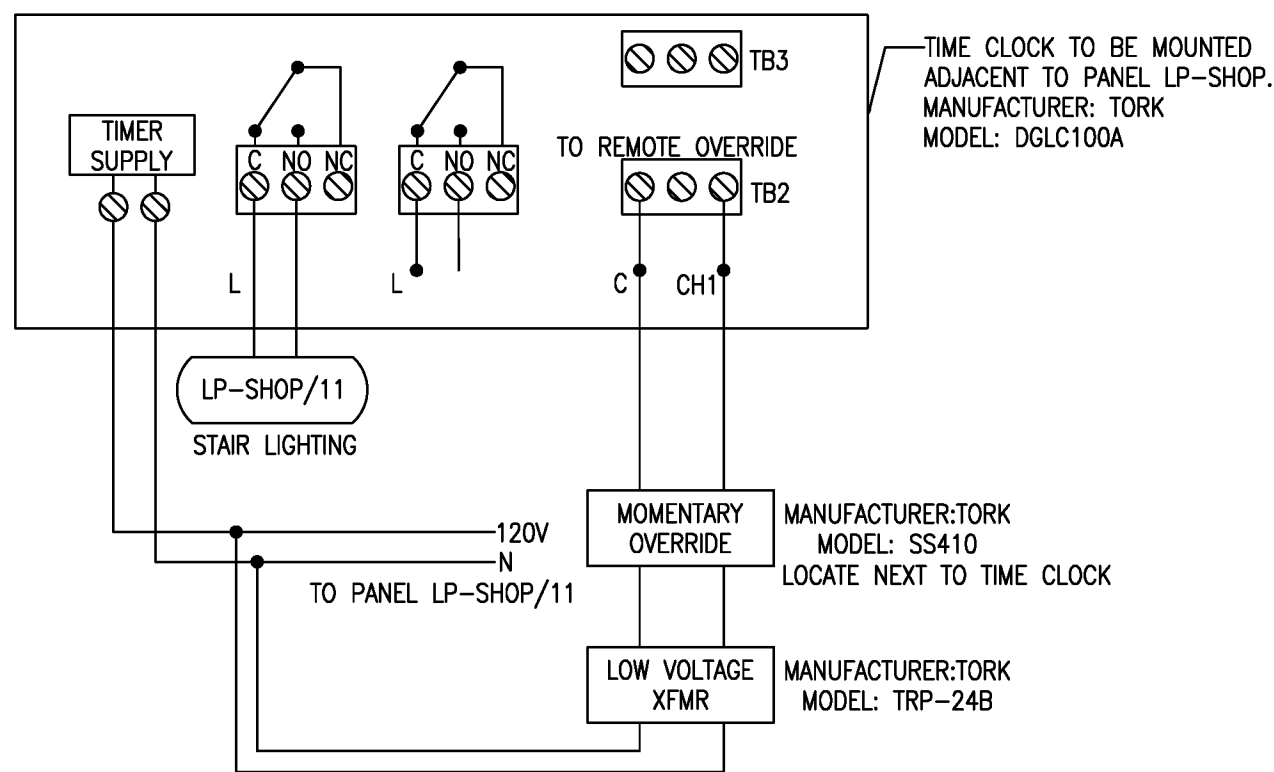
**S7 of 10**



LIGHT FIXTURE SCHEDULE							
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Wattage	NOTE
		WINONA	STEP11-RECT-WL-L-LST1A -700mA-WHT35K-MVOLT -SGB	RECESSED STEP LIGHT TO BE MOUNTED 30" ABOVE STAIR LEVEL	LED	3.5	



2 NORTH PAC STAIR PLAN  
E1



1 SOUTHWEST PAC STAIR PLAN  
E1

DRAWING LIST:  
N1 - NOTES & SPECIFICATIONS (SHEET 1 OF 2)  
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S6 - STAIR RESTORATION DETAILS  
S7 - STAIR RESTORATION DETAILS  
E1 - PAC STAIR RESTORATION LIGHTING PLANS & DETAILS

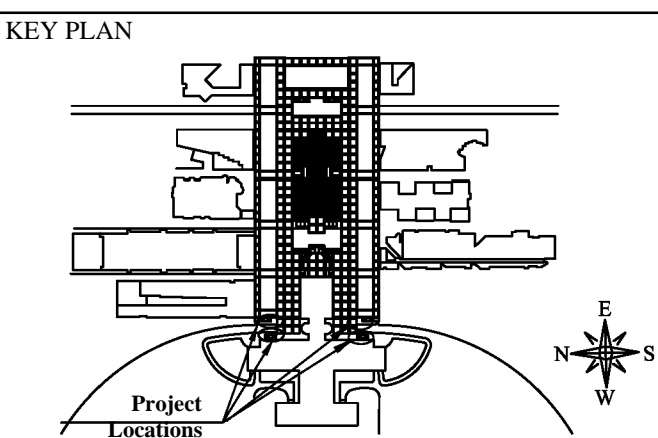
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Location: Performing Arts Center

Project Name:  
**RESTORATION OF FOUR (4) STAIRS at PERFORMING ARTS CENTER (PAC)**

Project Number: SU-111919

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

DATE: 01-10-2020

DRAWING TITLE:

**PAC STAIR RESTORATION LIGHTING PLANS & ELEVATIONS**

DRAWING NUMBER:

**E1 of 1**