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Detroit, Michigan

BIDDING AND CONSTRUCTION - 12/14/2017
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PS #4 - LEVEL 2 PLAN VIEW

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PS #4 PHASING NOTES:

1. CONTRACTOR SHALL BE ALLOWED TO CLOSE A MAXIMUM OF 400 SPACES AT ONE TIME DURING DAY TIME HOURS. 600 SPACES ARE ALLOWED AFTER 6pm, REDUCED BACK TO 400 BY 6am, PROVIDED THE MAXIMUM AMOUNT OF ONLY 400 SPACES REMAIN CLOSED MONDAY MORNINGS. VERIFY EXACT AMOUNT OF SPACES DURING "WEEKEND HOURS" (BEGINNING FRIDAY EVENINGS), PROVIDED THAT BEGIN FULL CLOSURES AS STATED IN NOTE P1 ON MAY 2, 2018.

2. PERFORM SEALANT WORK (WI'S 11.1, 11.3 & 11.7) IN TRAFFIC TOPPING REPAIR AREAS AS NEEDED.

3. PROVIDE PENETRATION IN EXISTING STRUCTURE. CONFIRM IN FIELD PRIOR TO START OF WORK.

4. CONTRACTOR SHALL BE ALLOWED TO CLOSE A MAXIMUM OF 400 SPACES AT ONE TIME DURING DAY TIME HOURS. 600 SPACES ARE ALLOWED AFTER 6pm, REDUCED BACK TO 400 BY 6am, PROVIDED THE MAXIMUM AMOUNT OF ONLY 400 SPACES REMAIN CLOSED MONDAY MORNINGS. VERIFY EXACT AMOUNT OF SPACES DURING "WEEKEND HOURS" (BEGINNING FRIDAY EVENINGS), PROVIDED THAT BEGIN FULL CLOSURES AS STATED IN NOTE P1 ON MAY 2, 2018.

5. CONTRACTOR SHALL CLOSE 400 SPACES. CONTRACTOR MAY RE-OPEN ONLY UP TO 400 SPACES AT ONE TIME DURING DAY TIME HOURS. 600 SPACES ARE ALLOWED AFTER 6pm, REDUCED BACK TO 400 BY 6am, PROVIDED THE MAXIMUM AMOUNT OF ONLY 400 SPACES REMAIN CLOSED MONDAY MORNINGS. VERIFY EXACT AMOUNT OF SPACES DURING "WEEKEND HOURS" (BEGINNING FRIDAY EVENINGS), PROVIDED THAT BEGIN FULL CLOSURES AS STATED IN NOTE P1 ON MAY 2, 2018.

6. CONSULT PEPL TO CONFIRM CD'S AND PD'S. CONFIRM IN FIELD PRIOR TO START OF WORK.

7. ALTERNATE W.I. 45.5 (IF ACCEPTED) OCCURS AT ALL STEEL PRECAST CONNECTIONS EXPOSED TO SKY (LEVELS 7 & 9). VERIFY REQUIREMENTS IN FIELD PRIOR TO SUBMITTING BID.

8. PERFORM P/T TENDON INSPECTIONS PER W.I. SERIES 21.0 AT GENERAL LOCATIONS SHOWN (CONFIRM W/ ENGINEER PERFORMED & SUPERVISED BY FIRM CERTIFIED BY PTI). PERFORM P/T REPAIRS AS NEEDED PER W.I. SERIES 21.0 (W.I. SERIES 16.0) SHOWN. ACTUAL EXTENT AND EXACT LOCATIONS SHALL BE IDENTIFIED IN FIELD WITH ENGINEER PRIOR TO START OF WORK.

9. ALL CONCRETE DEMO & PLACEMENT, AND ALL P/T SYSTEM RELATED WORK AND REPAIRS SHALL BE PERFORMED & SUPERVISED BY FIRM CERTIFIED BY PTI.

10. CONTRACTOR STAGING AREA IS LOCATED OUTSIDE THE STRUCTURE TO THE NORTH. COORDINATE WITH OWNER.

11. CONTRACTOR STAGING/PARKING WITHIN THE STRUCTURE SHALL BE IN DESIGNATED WORK AREAS PER OWNER PRIOR TO START OF PROJECT.

12. MARK DATE

13. REPRESENTATIVE AND GENERAL LOCATIONS OF BEAM REPAIRS (W.I'S 5.4 & 5.5) AND TRAFFIC TOPPING REPAIRS [FOR WORK ITEMS WITHOUT DETAILS, SEE SPECIFICATIONS]

PS #4 SHEET NOTES:

1. DRAWN BY:__________________________________________________________________________

2. CHECKED BY:________________________________________________________________________

3. MARK DATE__________________________________________________________________________

4. SHEET TITLE:________________________________________________________________________

5. PROJECT NO:________________________________________________________________________

6. www.walkerconsultants.com
PS #4 SHEET NOTES:
1. REFER TO SHEET R-104 FOR ALL SHEET NOTES.

PS #4 PHASING NOTES:
1. REFER TO SHEET R-104 FOR PHASING NOTES.

PS #4 GENERAL LEGEND
- EXISTING EXPANSION JOINT
- CONSTRUCTION JOINT

WORK ITEM IDENTIFICATION
- WORK ITEM NO.
- WORK ITEM/DETAIL NO.
- DESCRIPTION
- ISSUE
- MARK
- DATE

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WAYNE STATE UNIVERSITY
2017 PARKING STRUCTURES
2ND & 4TH FLOORS

STRUCTURE #4 ISOMETRIC

WORK ITEM IDENTIFICATION
- WORK ITEM NO.
- WORK ITEM/DETAIL NO.
- DESCRIPTION
- ISSUE
- MARK
- DATE

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1. All work affecting vehicle entry / exits must be during off-hours.

2. Maintain temporary walkways to allow pedestrian access to stair towers / elevators at all times during daytime hours.

3. Maintain two way temporary traffic lanes at all times while structure is in use.

4. Maintain min. 12ft wide one-way temporary traffic lane at all times while structure is in use, these (2) bays.

P5. Contractor shall provide all necessary temporary access and protection as required for pedestrian and/or bicycle use.

P6. Sealant and traffic topping work at areas of concrete repairs shall be performed after concrete repairs have achieved proper cure time — this will allow for necessary construction to be performed for concrete footing and closed access for sealant and traffic topping work of repair bays. Contractor shall phase the scheduling of these activities.

P7. Provide and maintain temporary walkways through work areas to maintain access to stair towers / elevators, pedestrian entrances and exits from the structure open and protected from dust and debris.

P8. Contractor shall begin mobilizing on April 23, 2018 (only localized space closures).

P9. Contractor must contain all dust and debris within work areas during all repairs.

P10. Concrete shall achieve 75% of design compressive strength and harden to a minimum of 4000 psi prior to opening for traffic.

P11. Contractor parking, staging, etc. shall not be permitted outside of current designated work area.

P12. Submit work schedule and phasing plan for owner review prior to start of construction.

P13. Coordinate work communications with WSU / University Police.

P14. Work shall be performed in a manner that allows continuous and normal traffic flow. Keep vehicle & pedestrian entrances and exits to the structure open and protected from dust and debris.

P15. Provide and maintain temporary walkways through work areas to maintain access to stair towers / elevators, pedestrian entrances and exits from the structure open and protected from dust and debris.

P16. All work in work areas C & E affecting vehicle entry / exits shall be performed during off-hours. Coordinate with WSU.

P17. Provide and maintain temporary walkways through work areas to maintain access to stair towers / elevators, pedestrian entrances and exits from the structure open and protected from dust and debris.

P18. Provide and maintain temporary walkways through work areas to maintain access to stair towers / elevators, pedestrian entrances and exits from the structure open and protected from dust and debris.

P19. Contractor shall document existing conditions within the structure prior to start of work.

P20. Contractor may close general work areas as shown to the left, and may utilize isolated spot parking space closures to accommodate the work.

P21. Contract work affecting vehicle entry / exits must be during off-hours. Coordinate with WSU.

P22. Contractor shall allow for (2) days of forced shutdown of operations at owner's discretion.

P23. Construction start date: May 2, 2018 (250 spaces maximum closure).


P25. Final completion date: August 10, 2018.

P26. Construction shall be monitored by WSU on April 25, 2018 (only localized space closures).

P27. Final construction signature per Oregon State University Policy on Worksite Permits. Contractor shall notify owner / engineer approval prior to start of work.
1. GENERAL FLOOR REPAIR LOCATIONS ARE SHOWN. EXACT LOCATIONS SHALL BE IDENTIFIED IN FIELD WITH ENGINEER PRIOR TO START OF WORK.

2. REFER TO DRAWING R-108 FOR PHASING & PARKING SPACE CLOSURE REQUIREMENTS. INSTALL ALL SIGNAGE / BARRIERS PER W.I. 1.5 PRIOR TO START OF WORK.

3. ROUTE / SEAL MISC. FLOOR CRACKS ON SUPPORTED LEVELS PER W.I. 11.1.

4. REPLACE ALL TEE TO TEE SEALANTS ON LEVELS 2-5, AND LOCALIZED TEE TO TEE SEALANTS ON LEVELS 6 & 7 PER W.I. 11.2. LOCATE LEAKING JOINTS TO BE RESEALED ON LEVELS 6 & 7 IN FIELD BY OBSERVING UNDERSIDE DURING RAIN EVENT, OR WATER TEST.

5. REPLACE ALL WASH & COVE SEALANT ON LEVELS 2-7 PER W.I.'S 11.5 & 11.7.

6. INSTALL COATING ON SUPPORTED LEVELS PER ALTERNATE W.I.'S 16.1A & 16.1B (IF ACCEPTED). AREAS OF EXISTING COATING REQUIRE RECOAT INCIDENTAL TO THIS WORK. SEE SECTION 020010 FOR FURTHER INFORMATION.

7. RE-STRIPE PAVEMENT MARKINGS PER REQUIREMENTS OF W.I. 45.1.

8. RESEAL JOINT OUTSIDE OF WEST STAIR TOWER ON LEVELS 2 THRU 7 PER W.I. 10.6.

9. NOTE: BREAK LINES USED ON DRAWINGS TO DENOTE LEVELS DO NOT MATCH EXISTING SIGNAGE IN STRUCTURE.

10. REMOVE ALL LOOSE SECTIONS OF OVERHEAD CONCRETE THROUGHOUT STRUCTURE PER W.I. 4.9. INCLUDES REMOVAL OF EXISTING PLYWOOD (TYPICAL LOCATIONS INDICATED ON PLANS) AND LOOSE SECTIONS OF BACKER ROD (NOT SHOWN). CONTRACTOR TO VERIFY REQUIREMENTS IN FIELD.

11. SUBMIT PHASING PLAN AND COORDINATE SCHEDULE FOR PERFORMING REPAIRS THAT AFFECT ENTRY / EXITS IN ADVANCE WITH WSU.

12. SEE R-108 FOR PHASING AND WORK AREA REQUIREMENTS.
A

NOTE: DO NOT TENDONS / TENSIONED P/T ELEMENTS EXIST. STEEL OR

3 PROVIDE SEALED JOINT

3. INSTALL NEW EXPANSION JOINT SYSTEM PER W.I. 10.3.

5. CONFIRM P/T TENDON AND ANCHOR LOCATIONS & DEPTH PRIOR TO START OF WORK. DO NOT DAMAGE SOUND BLOCKOUTS TO REMAIN.

NEW CONCRETE WASH w/BLOCKOUT EXPANSION JOINT - (PS #4) "BOUNDARY 3'-6" EXISTING SLAB PROVIDE CONCRETE NEW WASH CONCRETE. NOTE 5.

SURFACE BLOCKOUT IN SPECIFICATION SIZED PER SEE DETAIL 10.3 W.I.'S 5.4 & 5.5.

SYSTEM PER W.I. 10.3 EJ MANUFACTURER.

REPAIR E.J. BLOCKOUT W.I.'S. CONFIRM WITH ACCEPT NEW GLAND AS W/ EXP. JT. BLOCKOUT.

6"-7" PROVIDE (5)

PROVIDE KOROLATH DETAIL 8.3 & SECTION DOUBLE TEE DURING DIRECTLY BENEATH BOTH STEMS OF AFFECTED SLAB CONCRETE TO FACILITATE PLACEMENT OF SEE NOTE 5.

1. ALL REINFORCING STEEL SHAL BE EPOXY COATED.

BOTH SIDES OF TEE STEM HAS EMBEDDED PRESTRESSING STRANDS. LOCAT E PRIOR TO DRILLING HOLES. HOLES TO PERFORM REPAIRS VERIFY IN FIELD.

2. NO LOADS PERMITTED ON FLOOR ABOVE OR BELOW DURING REPAIRS.

4. ALL SHORING REQUIRED TO PERFORM REPAIRS SHALL BE PER REQUIREMENTS OF DETAIL 8.3.

5. VERIFY REPAIR IN FIELD WITH ENGINEER PRIOR TO START OF WORK.

3. SEE DETAIL 8.3 FOR FURTHER REQUIREMENTS.

4'-0" (TYP) SEE LAP = 1'-4" TYP

5 6 7 8 4 3 2 1

1. DO NOT CUT OR DAMAGE PRESTRESSED TENDONS. ALL

PREPARATION FOR PATCHING AND OVERLAY".

5. NO LIVE LOADS SHALL BE APPLIED ABOVE DURING REPAI RS. TEMPORARY SHORING PROVIDED TO START OF REPAIRS.

2. NUMBER AND LOCATION OF REINFORCEMENT SHOWN MAY DIFFER FROM ACTUAL FIELD CONDITIONS.

PRIOR TO PROCEEDING WITH WORK.

EXPOSED REINF. REMOVE AND REPLACE CONCRETE WITHIN

DELAMINATION SPALL OR EXP. JT. REMOVAL/REPLACEMENT OF LOCALIZED FLOOR ONLY. CORING NOT ALLOWED. DO NOT DAMAGE EXISTING EPOXY ANCHOR NEW L-BAR / DOWELS @ 8" O.C.

CONTRACTORS EXPENSE.

SHOWN SHADED. MAINTAIN 1 1/2" MIN COVER PRESTRESSED TENDONS (TYP) SEE CAUTION NOTE 1.

REMOVAL LIMITS (TYP.) VARIES, 1 1/2" (TYP) FOR ALL CONCRETE EMBEDMENT ON EJ. CONCRETE WITHIN REMOVAL LIMITS (TYP.) SEE DETAIL 5.4 (INCIDENTAL). DO NOT DAMAGE EXISTING REINFORCEMENT OR P/T CABLES. ALL

CONTRACTORS EXPENSE.

REMOVAL/REPLACEMENT OF LOCALIZED FLOOR ONLY. CORING NOT ALLOWED. DO NOT DAMAGE EXISTING EPOXY ANCHOR NEW L-BAR / DOWELS. (MIN 8" EMBED)

EXPOSED REINF. PROVIDE 3/4" CLEARANCE WHERE REQ'D AS VARIES ALONG TYP.

1 1/2" MIN COVER PRESTRESSED TENDONS (TYP) SEE CAUTION NOTE 1.

REMOVAL LIMITS (TYP.) VARIES, 1 1/2" (TYP) FOR ALL CONCRETE EMBEDMENT ON EJ. CONCRETE WITHIN REMOVAL LIMITS (TYP.) SEE DETAIL 5.4 (INCIDENTAL). DO NOT DAMAGE EXISTING REINFORCEMENT OR P/T CABLES. ALL

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REMOVAL LIMITS (TYP.) VARIES, 1 1/2" (TYP) FOR ALL CONCRETE EMBEDMENT ON EJ. CONCRETE WITHIN REMOVAL LIMITS (TYP.) SEE DETAIL 5.4 (INCIDENTAL). DO NOT DAMAGE EXISTING REINFORCEMENT OR P/T CABLES. ALL

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REMOVAL LIMITS (TYP.) VARIES, 1 1/2" (TYP) FOR ALL CONCRETE EMBEDMENT ON EJ. CONCRETE WITHIN REMOVAL LIMITS (TYP.) SEE DETAIL 5.4 (INCIDENTAL). DO NOT DAMAGE EXISTING REINFORCEMENT OR P/T CABLES. ALL

CONTRACTORS EXPENSE.
1. QUANTITIES BASED ON HORIZONTAL APPLICATION AREA. VERTICAL DETAILING AND ADDITIONAL DETAIL NOTE:

3. W.I. 16.2 INCLUDES REMOVAL OF EXISTING COATING SYSTEM TO BARE CONCRETE, AND INSTALLATION OF NEW INTERMEDIATE & TOP COATS ON PREPARED EXISTING COATING.
4. W.I. 16.4 INCLUDES INSTALLING NEW INTERMEDIATE & TOP COATS ON PREPARED EXISTING COATING.

11.7 INSTALL SEALANT EVENLY AND FLUSH WITH ADJACENT SURFACES.

1. REMOVE EXISTING COVE SEALANT MATERIAL (INCIDENTAL). PREPARE SURFACE PER SPECIFICATIONS.

2. CONTROL JOINT (C.J.) MUST BE TOOLED IN PLASTIC CONCRETE AND DIMENSIONS AS DETAILED ON DRAWINGS. BOTH SIDES OF JOINT, PREPARE EDGE, AND FILL WITH FLEXIBLE SEALANT. INSTALL SEALANT USING METHOD RECOMMENDED BY MANUFACTURER.

3. THIS OCCURS AT COLUMNS / WALLS AT BOTH ENDS OF JOINTS (TYP). SEE DETAIL 10.3 FOR REMAINING INFORMATION.

4. W.I. 16.1 PROVIDE 4" WIDE DETAIL FOR HORIZONTAL JOINTS FOR FLOOR TO VERTICAL WALL, COLUMN, OR CLAMP FACE (TYP).

5. PROVIDE DSM BY EMSEAL, OR PROVIDE FIELD-APPLIED SILICONE (TYP) IN BLOCKOUTS AND HEADERS.

6. PROVIDE 1/4" DIA S.S. @ 12" OC PROFILES TO RECEIVE JOINT SYSTEM PER MANUFACTURER (INCIDENTAL TO W.I. 10.6 AT PS #6).

7. TOPPING OR P/T SLAB WILL NOT BE PERMITTED. TOPPING OR P/T SLAB COLUMN, OR CLAMP FACE MUST BE MAINTAINED IN SET CONCRETE.

8. EXPANSION JOINT-ELASTOMERIC CONCRETE EDGED

9. EPOXY/SAND MANUFACTURERS REQUIREMENTS.

10. CONSTRUCTION JOINTS AT PS #4, AS WELL AS PRE-TOPPED PRECAST JOINTS & CIP WASHES AT PS #6 REQUIRE USE OF BOND BREAKER TO RECEIVE JOINT SYSTEM PER MANUFACTURER (INCIDENTAL).

11. PROVIDE DSM BY EMSEAL, OR PROVIDE & EPOXY ANCHOR NEW ANCHORS (PATCH SLAB AS NEEDED, INCIDENTAL).

12. PROVIDE 1/4" DIA S.S. @ 12" OC CONCRETE EDGED TO RECEIVE JOINT SYSTEM PER MANUFACTURER (INCIDENTAL TO W.I. 10.6 AT PS #6).

13. EPOXY ADHESIVE, OR ENGINEER APPROVED EPOXY ADHESIVE, OR ENGINEER APPROVED EQUAL.

14. PROVIDE 1/4" DIA S.S. @ 12" OC EXPANSION JOINT-ELASTOMERIC CONCRETE EDGED (PS #6) (INCIDENTAL)

15. SEALED FLOOR CRACKS BASED ON LIMITED FIELD MEASUREMENTS. NO EXTRAS ALLOWED.

16. PROVIDE 1/4" DIA S.S. @ 12" OC SEAL FLOOR CRACKS (PS #2, PS #4, & PS #6) (INCIDENTAL)

17. REPLACE EE-S:6 JOINT INTERSECTIONS, SPLICES, AND TERMINATIONS AS DETAILED ON DRAWINGS. BOTH SIDES PER MANUFACTURER.

18. EXPANSION JOINT: ELASTOMERIC CONCRETE EDGED (PS #6) (INCIDENTAL)
1. VERIFY TENDON FULLY DETENTIONED

WORK SEQUENCE NOTES:

2. REMOVE CONCRETE FULL DEPTH PER W.I. 3.3B.
3. PLACE CONCRETE IN SIDE 'A'. ALLOW ADEQUATE CONC. STRENGTH GAIN.
4. PLACE CONCRETE IN SIDE 'B'.

SLAB @ MID-DEPTH. LAP 18" MIN. w/SPACED. EMBED 8" INTO EXISTING ADJACENT BAR. ANCHOR WITH 21.3.1 END ANCHOR. SEE DETAIL 21.3.1 FOR ADDITIONAL INFORMATION.

21.0.1 P/T TENDON END ANCHORAGE (LIVE)

P/T TENDON ANCHORAGE

21.0.2 (PS #4) (FOR REFERENCE ONLY)

2. IF NECESSARY, PULL TENDON INTO SIDE 'B' TO PROVIDE TAIL FOR STRESSING. (MAKE ADJUSTMENT AT TENDON SPLICE REPAIR LOCATION).
3. DEPENDING ON EXTENT OF TENDON DAMAGE, THIS REPAIR MAY NEED TO BE PERFORMED IN COMBINATION WITH OTHER TENDON REPAIRS.
4. ALL INSPECTIONS IN A BAY SHALL BE COMPLETED & OBSERVED BY ENGINEER PRIOR TO PAYMENT.
5. SPACING AND LAYOUT OF TENDONS AND ANCHOR LOCATIONS ARE UNKNOWN. VERIFY ALL INSTRUCTIONS PRIOR TO PROCEEDING.
6. MULTIPLE/BUNDLED TENDON ANCHORS MAY BE ENCOUNTERED. SEE NOTE 2.
7. THIS DETAIL TYPICALLY APPLIES WHEN A TENDON FAILURE OCCURS NEAR THE EXISTING BEAM TENDONS, DEPTH VARIES WITH EPOXY COATED BAR x 6" LONG. TO MAINTAIN EXISTING TENDON PROFILE (INCIDENTAL).
8. IF DELAMINATIONS EXTEND BEYOND REMOVAL LIMITS SHOWN, P/T TENDON SHALL BE REMOVE AND REPLACE MIN. (TYP) 1'-4" LAP MIN. (TYP).
9. ONE-HALF (1/2) TYPICAL TENSILE STRENGTH SHOULD BE USED AS A STRENGTH REDUCTION FACTOR FOR THE REMAINDER OF THE TENDON.
10. FOLLOWING REPAIRS ARE TO BE MADE IN AccordANCE WITH THE FOLLOWING SPECIFICATIONS."

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1. Use Schedule 80 PVC pipe. All materials shall be in accordance with prevailing building ordinances prior to installation.

2. Install adjustable hangers as required, verify minimum height restrictions of new P/T tendon.

3. Full depth concrete & supplemental reinforcement to be paid under W.I. Series 3.0.

4. Partial floor plan (for reference only). (PS #4)

5. Center-pull tendon splice coupling (single)

6. See section 020010 for acceptable drains for W.I. 25.4 @ PS #4.

NOTE:

3. Any tendon failure requires repair. The combination of tendon repairs shown below typically occur when tendon failure occurs at an anchor location (Tendons 1, 2, and 3) or tendon failure occurs at an anchor location at the same tendon.

6. See notes 4, 5 & 6 for additional information.

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1. PREPARE & PAINT ALL EXPOSED STEEL SURFACES AT EXISTING CONNECTIONS

NOTES:

STEEL CONNECTIONS

2. CONTRACTOR TO VERIFY MEANS OF ACCESS REQUIREMENTS IN FIELD PRIOR TO TYPICAL EXPOSED COAT TOP OF BUMPER WALLS (PS #2) (ALTERNATE)

ON LEVELS 8 & 9. SEE SECTION 020010 FOR FURTHER INFORMATION.

8" (TYP)

NOTES:

3. SUBMIT COLOR SAMPLE & INSTALL MOCKUP FOR RECOMMENDATIONS. OWNER APPROVAL PRIOR TO START OF WORK.

COLUMN LINES, ROUGHLY 24 L.F. EACH)

LOCATION BASIS PER EACH PAYMENT ON A W.I.

41.2: STRINGER (TYP)

SIDE OF STAIR

NOTES:

5. NOTIFY ENGINEER BEFORE PERFORMING REMOVALS 3. ALL REINFORCING STEEL SHALL BE EPOXY COATED.

6. INSTALL COATING ON REPAIR SURFACES TO MATCH EXISTING (INCIDENTAL).

CONCRETE

CONT. #3

PROVIDE (4) #3 L-BAR DOWELS 11 1/2"± (VIF)

TREAD SURFACE (TYP)

#3 L-BAR DOWELS PROVIDE @ 12" O.C. LEADING EDGE OF STAIR TREAD (TYP)

EXISTING CONVENTIONAL AND POST

CORE THROUGH EXISTING EXISTING STEEL STAIR PAN

NOTES:

3. LOCATE SUPPLEMENTAL SHEAR CONNECTORS IN FIELD WITH ENGINEER (IF ACCEPTED).

4. LOCATE NEW SHEAR CONNECTORS TO AVOID EXISTING EMBEDDED SHEAR CONNECTORS AND REQUIREMENTS OF AWS D1.1.

TREAD INSTALLED. PREPARE EXISTING STEEL

WITH GALVANIZED TREAD PLATE (TYP)

EXISTING STEEL

NOTES:

3. REFER TO SECTION “WORK ITEMS” FOR FURTHER REQUIREMENTS.

2. STAIR TREADS ARE APPROXIMATELY 44" WIDE, V.I.F.

1. LOCATE REPAIRS IN FIELD WITH ENGINEER.

NOTE:

(PS #4) (ALTERNATE)

INSTALL STAIR TREAD PLATES STAIR REPAIR - LANDINGS (PS #2)

VIEW A

SAWCUT PATCH AROUND PATCH PERIMETER. (TYP)

PIPE SUPPORT (2 STAINLESS STEEL 80 (TYP)

PROVIDE NEW SCHEDULE 80 PVC RAINWATER COLLECTOR (TYP) FROM FLOOR SLAB OF LEVEL 8 DOWN TO GRADE (VIF).

PROVIDE NEW RAINWATER COLLECTOR. PROPOSED CORE LOCATION, ROUTING OF PIPING, ETC.

MECHANICAL - SUPPLEMENTAL DRAINS MECHANICAL - VERTICAL PIPING (FOR ALT. W.I. 25.5)

MECHANICAL - PIPES AND HANGERS (FOR ALT. W.I. 25.5)