WAYNE STATE UNIVERSITY
PARKING STRUCTURE #1 2019 RENOVATIONS

WSU PROJECT No: 051-322818

DETROIT, MICHIGAN

R-001 GENERAL NOTES, ISO, LEGEND AND W.I. LIST
R-002 TEMPORARY SHORING (WI 18.1)
R-003 TRAFFIC CONTROL, PHASING & SCHEDULE
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R-102 LEVEL 3 PLAN VIEW
R-103 LEVEL 4 PLAN VIEW
R-104 LEVEL 5 PLAN VIEW
R-105 LEVEL 6 PLAN VIEW
R-301 EXISTING REINFORCEMENT (FOR REFERENCE)
R-501 REPAIR DETAILS
R-502 REPAIR DETAILS
R-503 REPAIR DETAILS
AG-101 LEVEL 1 SIGNAGE PLAN
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AG-103 TYPICAL LEVEL SIGNAGE PLAN
AG-104 TOP LEVEL SIGNAGE PLAN
AG-201 SIGN DETAILS AND SCHEDULE

LOCATION MAP

525 Avis Drive
Suite 1
Ann Arbor, MI 48108
734.663.1070 Ph
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BIDDING AND CONSTRUCTION
01/24/2019
NOTES:
1. PROVIDE CONTROL JOINTS PER WI 11.4 TO MAINTAIN EXISTING CONSTRUCTION JOINTS IN WI 3.7 WORK AREAS.
2. BULKHEADS (IF REQUIRED) SHALL BE PROVIDED BETWEEN CONCRETE POURS AT SLAB SPAN MID POINT. PROVIDE JOINT PER WI 11.4.
3. INSTALL COVE SEALANT PER WI 11.7 AROUND ENTIRE PERIMETER OF BAYS AND ALL COLUMNS IN ALL W.I. 3.7 AREAS.
4. WI 11.4 AND 11.7 ARE INCIDENTAL TO WI 3.7.
1. PARKING STRUCTURE #1 2019 RENOVATIONS

2. CANTILEVERED EDGES.
   VERIFY IN FIELD WITH ENGINEER.

3. TEMPORARY SHORING MUST BE INSTALLED PRIOR TO START OF HYDRO-DEMOLITION.

4. WORKSHEET TITLE:
   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   ALONG "AA" & "B".

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   ALONG "C" & "D".

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (3) LEVELS
   ALONG "A" & "E".

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (1) LEVEL
   ALONG "8.5" & "12.5".

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   ALONG "CANTILEVER EDGES".

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   AT CANTILEVER EDGES.

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   AT INTERIOR CANTILEVERS.

   TEMPORARY SHORING REQUIRED ON THIS SHEET SHALL BE INSTALLED MINIMUM (2) LEVELS
   AT INTERIOR CANTILEVERS.

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   AT INTERIOR CANTILEVERS.
Contractor may begin mobilizing in mid to late April. Coordinate with WSU.

SIGNAGE SHALL ALSO INDICATE WHICH ENTRIES/EXITS REMAIN OPEN AND AVAILABLE. LOCATE TO NOT BLOCK SIDEWALK.

PROVIDE TRAFFIC CONTROL SIGNS AND NECESSARY SAFETY AND WARNING SIGNS PER W.I.'S 1.5 TO PREVENT PEDESTRIAN AND VEHICLE ACCESS INTO WORK AREAS.

MINIMUM PROVIDE PLYWOOD BARRIERS AT LEVELS WHERE HYDRO-DEMOLITION OPERATIONS OCCUR AND ALL LEVELS BELOW.

CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 8a), AND SHALL PROVIDE SAFETY AND DUST BARRIERS AS REQUIRED TO PROTECT ALL EXISTING PARKING EQUIPMENT & SECURITY CAMERAS. REMOVE AND REINSTALL EQUIPMENT IF REQUIRED TO FACILITATE WORK (INCIDENTAL). USE OWNERS PREFERRED COVER ALL EXISTING SIGNS THAT CONTRADICT CONSTRUCTION SIGNAGE, AND REMOVE COVERS AT END OF PROJECT (INCIDENTAL).

CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT PROJECT TO PREVENT PEDESTRIAN AND VEHICLE ACCESS IN ANY OF THE WORK AREAS.

CONTRACTOR SHALL MAINTAIN STAIR AND ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE WORK SCHEDULE ON R-003). SEE WORK SCHEDULE FOR TIMES.

CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT PROJECT TO PROVIDE FULL HEIGHT FLOOR-TO-CEILING WATER, SLURRY, CONSTRUCTION DUST BARRIERS AND SIGNAGE TO COMPLETE WORK WHILE ALLOWING NORMAL TRAFFIC FLOW THROUGH THE AREAS IN THE STRUCTURE DESIGNATED TO REMAIN OPEN, AND MAINTAINING COMPLETE SEPARATION BETWEEN WORK AREAS AND AREAS REMAINING OPEN TO PUBLIC USE.

CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.

5. CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.

TRAFFIC CONTROL

5. CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.

TRAFFIC CONTROL

5. CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.

TRAFFIC CONTROL

5. CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.

TRAFFIC CONTROL

5. CONTRACTOR SHALL MAINTAIN STAIR/ELEVATOR ACCESS AT ALL TIMES, EXCEPT AS OTHERWISE NOTED (SEE NOTE 11). PREVIEW SAFETY AND DUST BARRIERS AS REQUIRED TO PREVENT PEDESTRIAN AND VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE.
COORDINATE CLOSURES IN ADVANCE WITH WSU. LOCALIZED CLOSURES SHALL NOT CREATE DEAD ENDS AND SHALL MAINTAIN VEHICLE ACCESS TO ALL OPEN AREAS OF THE STRUCTURE. PHASE REPAIRS ACCORDINGLY.

1. VERIFY STATUS OF EXISTING SECURITY SYSTEM WITH OWNER (I.E. IDENTIFY ANY NON-FUNCTIONAL CAMERAS/COMPONENTS) PRIOR TO START OF REPAIRS. ANY NON-FUNCTIONAL LIMIT PICTURES SHALL ALSO BE DOCUMENTED PRIOR TO START OF REPAIRS. PERFORM SIMILAR REVIEW AND DOCUMENTATION OF ELEVATORS, PARKING EQUIPMENT, LANDSCAPING, AND OTHER EXISTING CONDITIONS PRIOR TO START OF WORK.

2. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FEATURES FOR DURATION OF PROJECT INCLUDING, BUT NOT LIMITED TO: CONDUIT, SIGNAGE, DRAINS, PIPING, PERIMETER RAILINGS, PERMANENT SHORES, ETC. ANY CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED/REPLACED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO OWNER. REFER TO SECTION 020010 FOR DESCRIPTION OF WORK THAT MAY OR MAY NOT BE APPLIED TO THE M/E ALLOWANCE (W.I. 25.1).

3. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS OF ALL WORK IN VERTICAL AND HORIZONTAL PREVIEW. CONTRACTOR SHALL ENSURE THAT WORK IS HANDLED IN A MANNER TO PREVENT DAMAGE TO EXISTING FEATUERS, LINES, STRUCTURES, AND OTHER EXISTING CONDITIONS. ALL WORK TO BE COMPLETED IN A CLEAN AND REFINISHED CONDITION.

4. SUPPORT ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CJ. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

5. INSTALL PROTECTION FOR FLOOR DRAINS (FILTERS AND OTHER MEANS OF PROTECTION AS NECESSARY) TO PREVENT HYDRO-DEMOLITION FROM ENTERING DRAINAGE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CLEANING AND/OR REPAIRS NECESSARY TO RESTORE EXISTING DRAINAGE SYSTEM TO EXISTING FUNCTIONAL CONDITION (INCLUDING UNDERGROUND PIPING).

6. CONTRACTOR SHALL COMMUNICATE ANY FIELD ISSUES TO ENGINEER FOR REVIEW AND SIGN OFF. CONTRACTOR SHALL ENSURE THAT ALL CONTRACTOR-EXECUTED WORK IS PERFORMED TO SATISFACTION OF OWNER AND ALL WORK IS HANDLED IN A MANNER TO PREVENT DAMAGE TO EXISTING CJ. CONTRACTOR SHALL ENSURE THAT CONTRACTOR AND SUBCONTRACTOR FIELD STAFF ARE AWARE OF REQUIRED FIELD CONDITIONS.

7. CONTRACTOR SHALL COMPLY WITH PERMITTED CONSTRUCTION HOURS AND NOT WORK BETWEEN THE HOURS OF 10 PM AND 7 AM.

8. CONTRACTOR SHALL PROVIDE 1% TO 2% SLOPE OF REPAIR SURFACES. LOWER DRAINS AS NECESSARY TO PROVIDE REQUIRED SLOPE AND MAINTAIN EXISTING SLAB THICKNESS AND 1-½" MINIMUM COVER REINFORCEMENT. NOTIFY ENGINEER OF ANY DISCREPANCIES.

9. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS. INSTALL PROTECTION FOR ELEVATOR TOWERS (WATER PROTECTION, SMOKE ALARM PROTECTION, ETC.) PRIOR TO START OF ... CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CLEANING AND/OR REPAIRS NECESSARY TO RESTORE...

10. PRIOR TO AND DURING CONCRETE PLACEMENT FOR W.I. 3.7, SET AND MAINTAIN GRADE PINS AT ALL DRAINAGE PROFILE LINES, HALFWAY POINTS, AND TOP OF DRAINS TO ENSURE PROPER DRAINAGE.

11. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

12. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FEATURES FOR DURATION OF PROJECT INCLUDING, BUT NOT LIMITED TO: CONDUIT, SIGNAGE, DRAINS, PIPING, PERIMETER RAILINGS, PERMANENT SHORES, ETC. ANY CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED/REPLACED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO OWNER. REFER TO SECTION 020010 FOR DESCRIPTION OF WORK THAT MAY OR MAY NOT BE APPLIED TO THE M/E ALLOWANCE (W.I. 25.1).

13. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FEATURES FOR DURATION OF PROJECT INCLUDING, BUT NOT LIMITED TO: CONDUIT, SIGNAGE, DRAINS, PIPING, PERIMETER RAILINGS, PERMANENT SHORES, ETC. ANY CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED/REPLACED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO OWNER. REFER TO SECTION 020010 FOR DESCRIPTION OF WORK THAT MAY OR MAY NOT BE APPLIED TO THE M/E ALLOWANCE (W.I. 25.1).

14. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FEATURES FOR DURATION OF PROJECT INCLUDING, BUT NOT LIMITED TO: CONDUIT, SIGNAGE, DRAINS, PIPING, PERIMETER RAILINGS, PERMANENT SHORES, ETC. ANY CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED/REPLACED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO OWNER. REFER TO SECTION 020010 FOR DESCRIPTION OF WORK THAT MAY OR MAY NOT BE APPLIED TO THE M/E ALLOWANCE (W.I. 25.1).

15. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

16. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING FEATURES FOR DURATION OF PROJECT INCLUDING, BUT NOT LIMITED TO: CONDUIT, SIGNAGE, DRAINS, PIPING, PERIMETER RAILINGS, PERMANENT SHORES, ETC. ANY CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED/REPLACED TO SATISFACTION OF OWNER AT NO ADDITIONAL COST TO OWNER. REFER TO SECTION 020010 FOR DESCRIPTION OF WORK THAT MAY OR MAY NOT BE APPLIED TO THE M/E ALLOWANCE (W.I. 25.1).

17. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

18. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

19. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

20. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

21. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

22. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

23. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

24. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.

25. CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION OPERATIONS TO PREVENT DAMAGE TO EXISTING CEILING REPAIRS (W.I. 4.1/4.2) IN FIELD WITH ENGINEER. REMOVE ALL LIVE LOADS FROM FLOORS ABOVE AND CLOSE LEVEL BELOW ACTIVE CEILING REPAIR AREAS.
LEVEL 4 PLAN VIEW

EXISTING CJ

UNCOATED (L-3) INSTALL COATING PER W.I. 16.1 COATED (L-3)

PROTECT EXISTING EJ.

SCARIFY / REMOVE THIN CEMENTIOUS COATING AS NEEDED PRIOR TO COATING INSTALLATION (INCIDENTAL TO W.I. 16.1). OCCURS "8.5" TO "12.5", "AA" TO "B"

GENERAL LEGEND

LEVEL 5 PLAN VIEW

GENERAL LEGEND

- EXPANSION JOINT (EJ)
- CONSTRUCTION JOINT (CJ)
- EXISTS, SHOWN BLACK TO WHITE
- REMOVED & SHOWN WHITE TO BLACK
- REMOVED & SHOWN BLACK TO WHITE

SHEET NOTES (R-101 THRU R-105):

1. SEE SHEET R-101.

EXISTING CJ

PROTECT EXISTING EJ.

REMOVE EXISTING COATING TO BARE CONCRETE PRIOR TO COATING INSTALLATION (INCIDENTAL) OCCURS "9" TO "10", "C" TO "D".

REMOVE AND DISPOSE OF EXISTING VEHICLE BARRIERS (INCIDENTAL). REPAIR CONCRETE AS NEEDED PER W.I. 3.1.

SCARIFY / REMOVE THIN CEMENTIOUS COATING AS NEEDED PRIOR TO COATING INSTALLATION (INCIDENTAL TO W.I. 16.1). OCCURS "8.5" TO "12.5", "AA" TO "B".

TYP ALL LEVELS

TAR ALL LEVELS

LEVEL 5 PLAN VIEW
NOTE:

1. **TRANSVERSE MIDDLE STRIP**
   - 13'-9" (CONT. AT GRID 11)
   - 13'-9" (CONT. AT GRID 10)

2. **TRANSVERSE COLUMN STRIP**
   - 10'-0" (TYP)(VIF)
   - 9'-4" (TYP)(VIF)

3. **LONGITUDINAL MIDDLE STRIP**
   - 11'-4" TYP (VIF)
   - 13'-9" (CONT. AT GRID 11)
   - 34'-0"

4. **LONGITUDINAL COLUMN STRIP**
   - 10'-0" (TYP)(VIF)
   - 9'-4" (TYP)(VIF)

5. **COLUMN STRIP**
   - EXIST. REINF. (TYP)

6. **EXISTING REINFORCMENT (TYP)**
   - TYPICAL REINFORCING STEEL AT COLUMN STRIP INTERSECTION

7. **TYPICAL REINFORCING STEEL**
   - (12) #8 TOP STEEL
   - (13) #7 TOP STEEL
   - (12) #7 BENT STEEL

8. **NOTE**:
   - SHEET NOTES:
     - SEE SHEET R-001 FOR GENERAL NOTES.
     - EXISTING REINFORCING STEEL TO REMAIN, EXCEPT SEVERELY CORRODED BARS.
     - REMOVE, REPLACE AND SUPPLEMENT DEFECTIVE REINFORCEMENT AS DIRECTED BY ENGINEER PER W.I. 3.9.
     - CONTRACTOR SHALL NOT CUT ANY BARS EMBEDDED IN EXISTING CONCRETE (AT ANY POINT) WITHOUT OBTAINING APPROVAL FROM ENGINEER, ON A CASE-BY-CASE BASIS.
     - WHERE EXISTING REINFORCING STEEL REMOVAL IS REQUIRED, SAVE A MINIMUM 5'-0" FROM FACE OF WALL/COLUMN/CURB (TYP). LAP NEW REINFORCEMENT WITH EXISTING A MINIMUM OF 4'-0".
     - WHERE REPLACEMENT BAR LENGTH IS GREATER THAN 25'-0", LAP SPLICE SHALL BE LOCATED A MINIMUM OF 6'-0" FROM TRANSVERSE COLUMN LINE ON THE NON-CANTILEVER SIDE. ALL OTHER BARS SHALL BE CONTINUOUS.
     - DETAILS ON THIS SHEET SHOW TYPICAL EXISTING REINFORCING STEEL LAYOUT, BASED ON ORIGINAL DRAWINGS. ACTUAL FIELD CONDITIONS VARY. REFER TO DETAIL SERIES 3.7 FOR CONCRETE REMOVAL REQUIREMENTS.
FLOOR REPAIR - SLAB EDGE

1. DO NOT UNDERMINE BASE PLATES OF PERIMETER VEHICLE BARRIERS.
2. SEE DETAIL 3.7.2 / R-501, & W.I. 10.3 CHECKED BY: DRAWN BY:
3. REMOVE EXISTING EXPANSION JT. SYSTEM INCLUDING EMBEDDED STEEL ANGLES AND STUDS (BOTH SIDES OF JOINT).
4. PROVIDE #4 x 3'-6" O.C. MAX. (INCIDENTAL, SEE NOTES)
5. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).
6. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION 3/4" CL. AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION"
7. REMOVE EXISTING PERMANENT POST SHORE.(TYP.). MIN. 8" X 8" PAD OF EXIST. FLOOR SURF. CHIPPING HAMMERS AS NEEDED (PROVIDE
8. SEE DETAILS 3.14 - 15 FOR RELATED WORK.

FLOOR REPAIR - OVERLAY STRIP-PATCHING

1. REMOVAL DEPTHS SHOWN ARE BASED ON TYPICAL LOCATIONS OF REINFORCING STEEL. MINIMUM PERFORMANCE REQUIREMENT IS TO REMOVE ALL CONCRETE TO MINIMUM 3/4" BELOW BOTTOM BARS IN THE TOP MAT WHERE VEHICLE BARRIERS ARE PRESENT. SEE DETAIL 3.4 / 10.3 FOR RELATED WORK.
2. SEE DETAILS 3.4 & 3.7 AS APPLICABLE (TYP.) SECURE TO EXISTING REINFORCEMENT TYP. @ 12" O.C. MAX. (INCIDENTAL, SEE NOTES)

FLOOR REPAIR - CURB

1. REMOVAL LIMITS (TYP.) SEE NOTE 3.
2. REMOVE EXISTING EXPANSION JT. SYSTEM INCLUDING EMBEDDED STEEL ANGLES AND STUDS (BOTH SIDES OF JOINT).
3. PROVIDE #4 x 3'-6" O.C. MAX. (INCIDENTAL, SEE NOTES)
4. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).
5. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION 3/4" CL. AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION"
6. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).

FLOOR REPAIR - OVERLAY STRIP-PATCHING

1. DO NOT UNDERMINE BASE PLATES OF PERIMETER VEHICLE BARRIERS.
2. SEE DETAIL 3.7.2 / R-501, & W.I. 10.3 CHECKED BY: DRAWN BY:
3. REMOVE EXISTING EXPANSION JT. SYSTEM INCLUDING EMBEDDED STEEL ANGLES AND STUDS (BOTH SIDES OF JOINT).
4. PROVIDE #4 x 3'-6" O.C. MAX. (INCIDENTAL, SEE NOTES)
5. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).
6. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION 3/4" CL. AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION"
7. REMOVE EXISTING PERMANENT POST SHORE.(TYP.). MIN. 8" X 8" PAD OF EXIST. FLOOR SURF. CHIPPING HAMMERS AS NEEDED (PROVIDE
8. SEE DETAILS 3.14 - 15 FOR RELATED WORK.

FLOOR REPAIR - PARTIAL DEPTH

1. REMOVAL DEPTHS SHOWN ARE BASED ON TYPICAL LOCATIONS OF REINFORCING STEEL. MINIMUM PERFORMANCE REQUIREMENT IS TO REMOVE ALL CONCRETE TO MINIMUM 3/4" BELOW BOTTOM BARS IN THE TOP MAT WHERE VEHICLE BARRIERS ARE PRESENT. SEE DETAIL 3.4 / 10.3 FOR RELATED WORK.
2. SEE DETAILS 3.4 & 3.7 AS APPLICABLE (TYP.) SECURE TO EXISTING REINFORCEMENT TYP. @ 12" O.C. MAX. (INCIDENTAL, SEE NOTES)

FLOOR REPAIR - OVERLAY STRIP-PATCHING

1. DO NOT UNDERMINE BASE PLATES OF PERIMETER VEHICLE BARRIERS.
2. SEE DETAIL 3.7.2 / R-501, & W.I. 10.3 CHECKED BY: DRAWN BY:
3. REMOVE EXISTING EXPANSION JT. SYSTEM INCLUDING EMBEDDED STEEL ANGLES AND STUDS (BOTH SIDES OF JOINT).
4. PROVIDE #4 x 3'-6" O.C. MAX. (INCIDENTAL, SEE NOTES)
5. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).
6. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION 3/4" CL. AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION"
7. REMOVE EXISTING PERMANENT POST SHORE.(TYP.). MIN. 8" X 8" PAD OF EXIST. FLOOR SURF. CHIPPING HAMMERS AS NEEDED (PROVIDE
8. SEE DETAILS 3.14 - 15 FOR RELATED WORK.

FLOOR REPAIR - OVERLAY STRIP-PATCHING

1. DO NOT UNDERMINE BASE PLATES OF PERIMETER VEHICLE BARRIERS.
2. SEE DETAIL 3.7.2 / R-501, & W.I. 10.3 CHECKED BY: DRAWN BY:
3. REMOVE EXISTING EXPANSION JT. SYSTEM INCLUDING EMBEDDED STEEL ANGLES AND STUDS (BOTH SIDES OF JOINT).
4. PROVIDE #4 x 3'-6" O.C. MAX. (INCIDENTAL, SEE NOTES)
5. PROVIDE PERIMETER JT. BLOCKOUT DIMENSIONS. FORMS SHALL BE FREE OF DIRT, RUST & HARDENED CONC. CRUSHING & SHALL MAINTAIN JOINT & BLOCK OUT SUPPORTING CONC. WITHOUT SETTLEMENT, BOWING, OR VIBRATE DURING PLACEMENT TO ENSURE NO HONEY-COMBING (REPAIR AT NO COST TO OWNER).
6. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION 3/4" CL. AROUND ALL EXPOSED REINF. WHERE REQ'D AS SPECIFIED IN SECTION "SURFACE PREPARATION"
7. REMOVE EXISTING PERMANENT POST SHORE.(TYP.). MIN. 8" X 8" PAD OF EXIST. FLOOR SURF. CHIPPING HAMMERS AS NEEDED (PROVIDE
8. SEE DETAILS 3.14 - 15 FOR RELATED WORK.
NOTES:

1. LOCATION: TO BE AS INDICATED ON DETAIL SHEETS. FINISHED FLOOR SURFACE TO BE FREE OF ALL LIVE LOADS PRIOR TO START OF WORK.

2. REMOVE CONCRETE WITHIN SPALL OR DELAMINATION BOUNDARY (TYP.) REPAIRS COMPLETED.

3. REMOVE AND REPLACE EXISTING JOINT SEALANTS. INSTALL SEALANT EVENLY AND RECESS 1/16" BELOW SURFACE.

4. USE HOOK OR SHEARS TO ATTACH MATERIAL TO JOINT OPENING AND TO PROVIDE ACCEPTABLE JOINT SEALANCE.

5. REMOVE EXISTING MECHANICAL FIXTURES AND INSTALL ASEPTIC MATERIALS.

6. INSTALL SEALANT FLUSH WITH WALL.

7. COMPLY WITH JOINT MANUFACTURER'S WRITTEN RECOMMENDATIONS.

8. REPLACE CONCRETE WHERE PRESENT.

9. REMOVE AND REPLACE CONCRETE WITHIN CROSS-HATCHED SECTION.

10. REPLACE JOINT SEALANTS.

11. MANLIFT OR OTHER MEANS OF ACCESS REQUIRED TO COMPLETE THIS WORK IS INCIDENTAL.}

12. COLUMN REPAIR - PARTIAL DEPTH AT DROP PANEL

13. CEILING REPAIR - PARTIAL DEPTH AT BLOCK OUT

14. REPLACE JOINT SEALANTS

15. REPLACE JOINT SEALANTS

16. EXTERIOR BUMPER WALL REPAIRS (INcl. TYPICAL)

17. EXPANSION JOINT - ELASTOMERIC CONCRETE EDGED

18. REPLACE STAIR TOWER ISOLATION JOINTS

19. REPLACE STAIR TOWER ISOLATION JOINTS

20. CEILING REPAIR - PARTIAL DEPTH
TYPICAL LEVEL SIGNAGE PLAN
SIGN DETAIL (SIDE VIEW)

1. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXITS. (EX: EXIT STAIRWAY & EXIT LOBBY)
   1) PROVIDE 6" X 12" SIGNS (MIN. 1/16" THICK) WITH 1/2" RADIUS ON SIGN CORNERS.
   2) PROVIDE 1" INTERVALS BETWEEN EACH LETTER & SYMBOL.
   3) PROVIDE & INSTALL 2"ohana FOR EXITS, 1.5" FOR ELEVATOR/SYMBOLS.
   4) PROVIDE & INSTALL 1 1/2" ROUND MOUNTING FLANGE (MIN. 1/2" THICK) PER SIGN.
   5) PROVIDE & INSTALL SIGNS ON SURFACE CONCRETE WALL OR CONCRETE COLUMN (MIN. 1/2" THICK) WITH CORRECT BOLTS PER SIGN.

2. MOUNTING LOCATION CONFIRMED WITH ENGINEER. (WHERE DOOR IS USED - MOUNT ON WALL ADJACENT TO LATCH SIDE.)
   1) PROVIDE 1 1/2" RADIUS ON SIGN CORNERS.
   2) PROVIDE 1" INTERVALS BETWEEN EACH LETTER & SYMBOL.
   3) PROVIDE & INSTALL SIGNS ON SURFACE CONCRETE WALL OR CONCRETE COLUMN (MIN. 1/2" THICK) WITH CORRECT BOLTS PER SIGN.

3. SIGN & MOUNTING TO CONFORM TO REQUIREMENTS OF AMERICAN'S WITH DISABILITIES ACT.
   1) PROVIDE & INSTALL 1 1/2" ROUND MOUNTING FLANGE (MIN. 1/2" THICK) PER SIGN.
   2) PROVIDE 1" INTERVALS BETWEEN EACH LETTER & SYMBOL.
   3) PROVIDE & INSTALL SIGNS ON SURFACE CONCRETE WALL OR CONCRETE COLUMN (MIN. 1/2" THICK) WITH CORRECT BOLTS PER SIGN.

4. SPECIFY MOUNTING LOCATION TO PROVIDE (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
   1) PROVIDE 1 1/2" RADIUS ON SIGN CORNERS.
   2) PROVIDE 1" INTERVALS BETWEEN EACH LETTER & SYMBOL.
   3) PROVIDE & INSTALL SIGNS ON SURFACE CONCRETE WALL OR CONCRETE COLUMN (MIN. 1/2" THICK) WITH CORRECT BOLTS PER SIGN.

5. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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6. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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7. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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9. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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10. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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    3) PROVIDE & INSTALL SIGNS ON SURFACE CONCRETE WALL OR CONCRETE COLUMN (MIN. 1/2" THICK) WITH CORRECT BOLTS PER SIGN.

11. PROVIDE & INSTALL (2) ALUMINUM SIGNS PER EACH EXIT (EX: EXIT STAIRWAY & EXIT LOBBY), PROVIDE & INSTALL SIGNS PER CONTRACTOR'S JETTER'S SPECIFICATIONS (EX: ALUMINUM SIGN COLOR TO BE BLACK DIE-RAISED LETTER (FACE, EDGES & BACK) 48"-60" A.F.F. BETWEEN LINES. HEIGHT). LEVEL NUMBERS.
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SIGN TYPES LEGEND
A - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
B - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
C - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
D - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
E - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
F - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
G - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
H - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
I - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
J - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
K - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
L - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
M - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
N - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
O - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
P - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
Q - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
R - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
S - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
T - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
U - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
V - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
W - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
X - 1 1/2" WHITE AT LEVELS 3, 4 & 5.
Y - 1 3/4" WHITE AT LEVELS 3, 4 & 5.
Z - 1 1/2" WHITE AT LEVELS 3, 4 & 5.