ALL METAL FABRICATIONS SHALL BE HOT DIP GALVANIZED FOLLOWING FABRICATION.

ALL WELDING SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES AND SHALL

A. TOUCH UP ALL DAMAGED POWDER COATED AREAS ACCORDING TO MANUFACTURER’S

POWDER COAT ALL HOT DIP GALVANIZED METAL FABRICATIONS TO MATCH VINYL COATING.

CHANNELS, ANGLES, BARS, PLATES AND RODS: ASTM A36 WITH YIELD STRESS OF 36,000

MANUAL OF STEEL CONSTRUCTION.

CONFLICTS.

THE CORROSION PROTECTION SYSTEM IS BASED ON CRITERIA PRESENTED IN

NECESSARY TO COMPLETE THE WORK.

CONSTRUCTION LOADING

PARKING GARAGES.

MICHIGAN BUILDING CODE, CURRENT EDITION.

100 PSF

2

H. PROGRESS MEETINGS

G. QUANTITIES

E. INSTALL BARRIER FENCING SYSTEM AS INDICATED ON THE DRAWINGS.

OWNER. ELECTRICAL WORK BY OTHERS.

THE FILTER FABRIC MUST BE INSTALLED OVER ALL STORM DRAIN BASINS WITHIN THE

FIELD VERIFY THE LOCATIONS OF EXISTING STRUCTURES, PIPING, CONDUITS, ETC.,

WHERE DIMENSIONS ARE INDICATED FOR EXISTING STRUCTURES, THEY ARE

MAXIMUM NUMBER OF SPACES THAT MAY BE CLOSED AT A TIME IN EACH PARKING

CONTRACTOR SHALL MAINTAIN TRAFFIC FLOWS TO ALL LEVELS OF THE PARKING

CONTRACTOR MAY NOT USE ELEVATORS FOR TRANSPORTING PERSONNEL, HAND TOOLS,

ACCESS TO THE ELEVATORS AND ALL STAIR TOWERS IS TO BE MAINTAINED AT ALL TIMES.

TO MINIMIZE INTERFERENCE WITH THE BUILDING’S OPERATIONS. CONTRACTOR SHALL

AROUND THE PERIMETER OF THE PARKING STRUCTURE.

PROTECT PEDESTRIAN TRAFFIC THROUGHOUT THE STRUCTURE AND ON SIDEWALKS

STRUCTURE DESIGNATED TO BE OPEN.

CONTRACTOR SHALL MAINTAIN TRAFFIC FLOWS TO ALL LEVELS OF THE PARKING

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TO MINIMIZE INTERFERENCE WITH THE BUILDING’S OPERATIONS. CONTRACTOR SHALL
PLAN SYMBOLS

WORK ITEM NUMBER, REFER TO LIST BELOW
WALL HEIGHT SCHEDULE MARK
EXISTING FENCING
NEW BARRIER FENCING
TEMPORARY CONSTRUCTION FENCING
WORK ITEM NOTES
1. INSTALL BARRIER - TYPE A, REFER TO DETAIL 1/AP501.
2. INSTALL BARRIER - TYPE B, REFER TO DETAIL 1/AP502.

PLAN NOTES
1. REFER TO DETAIL 1/AP502 TO INSTALL BARRIER - TYPE B.
2. REFER TO DETAIL 1/AP501 TO INSTALL BARRIER - TYPE A.
3. REFER TO DETAIL 7/AP501 TO INSTALL EXPANSION JOINT.
4. REFER TO DETAIL 6/AP505 TO INSTALL 45° END POST.
5. REFER TO DETAIL 6/AP501 TO INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END.
6. REFER TO DETAIL 5/AP501 TO INSTALL WING PANEL.
7. REFER TO DETAIL 9/AP505 TO INSTALL WEDGE PANEL.
8. REFER TO DETAIL 1/A3004 TO INSTALL NEW BARRIER FENCING.
9. REFER TO DETAIL 1/A3004 TO REMOVE & REPLACE EXISTING 8'-0" FENCE/GATE.
10. REFER TO DETAIL 1/A3004 TO INSTALL & MAINTAIN CONSTRUCTION BARRIER FENCE.
11. REFER TO DETAIL 1/A3004 TO INSTALL & MAINTAIN CONSTRUCTION SIGNAGE.
12. REFER TO DETAIL 1/A3004 TO CONNECT NEW BARRIER FENCING TO ADJACENT EXISTING FENCING.
13. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING GUARDRAIL AT PERIMETER WALL.
14. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING CAPSTONE AT TOP OF WALL.
15. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL.
16. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING DRAIN PIPES.
17. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL GENERATORS.

KEY NOTES
1. REFER TO DETAIL 7/AP501 TO INSTALL EXPANSION JOINT.
2. REFER TO DETAIL 6/AP505 TO INSTALL 45° END POST.
3. REFER TO DETAIL 6/AP501 TO INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END.
4. REFER TO DETAIL 5/AP501 TO INSTALL WING PANEL.
5. REFER TO DETAIL 9/AP505 TO INSTALL WEDGE PANEL.
6. REFER TO DETAIL 1/A3004 TO INSTALL NEW BARRIER FENCING.
7. REFER TO DETAIL 1/A3004 TO REMOVE & REPLACE EXISTING 8'-0" FENCE/GATE.
8. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING GUARDRAIL AT PERIMETER WALL.
9. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING CAPSTONE AT TOP OF WALL.
10. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL.
11. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING DRAIN PIPES.
12. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL GENERATORS.

WALL HEIGHT SCHEDULE

MARK

EXISTING FENCING

NEW BARRIER FENCING

TEMPORARY CONSTRUCTION FENCING

1. REFER TO DETAIL 1/AP502 TO INSTALL BARRIER - TYPE B.
2. REFER TO DETAIL 1/AP501 TO INSTALL BARRIER - TYPE A.

1. REFER TO DETAIL 1/AP502 TO INSTALL BARRIER - TYPE B.
2. REFER TO DETAIL 1/AP501 TO INSTALL BARRIER - TYPE A.
3. REFER TO DETAIL 7/AP501 TO INSTALL EXPANSION JOINT.
4. REFER TO DETAIL 6/AP505 TO INSTALL 45° END POST.
5. REFER TO DETAIL 6/AP501 TO INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END.
6. REFER TO DETAIL 5/AP501 TO INSTALL WING PANEL.
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9. REFER TO DETAIL 1/A3004 TO REMOVE & REPLACE EXISTING 8'-0" FENCE/GATE.
10. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING GUARDRAIL AT PERIMETER WALL.
11. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING CAPSTONE AT TOP OF WALL.
12. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL.
13. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING DRAIN PIPES.
14. REFER TO DETAIL 1/A3004 TO INSTALL EXISTING ELECTRICAL GENERATORS.

MAYNARD - LEVEL 5/6 PLAN (UNCOVERED)
PLAN SYMBOLS

WORK ITEM NOTES

EXISTING FENCING

TEMPORARY CONSTRUCTION FENCING

WORK ITEM NOTES

1. REFER TO SHEET FOR GENERAL NOTES.
2. PRIOR TO BEGINNING WORK, THE ROOF LEVEL IS TO BE COMPLETELY BARRICADED TO PROHIBIT PUBLIC ACCESS, INCLUDING BUT NOT LIMITED TO THE VEHICULAR RAMP AND STAIR TOWERS. MAINTAIN CONSTRUCTION BARRIER FENCE AND CONSTRUCTION SIGNAGE THROUGH THE DURATION OF THE PROJECT.
3. REMOVE AND DISPOSE OF EXISTING FENCING TO INSTALL NEW BARRIER FENCING, REFER TO DTL 10/AP505.

PLAN NOTES

1. INSTALL BARRIER - TYPE A, REFER TO DETAIL 1/AP501.
2. INSTALL BARRIER - TYPE B, REFER TO DETAIL 1/AP502.

KEY NOTES

1. EXPANSION JOINT, REFER TO DETAIL 7/AP501.
2. INSTALL 45° END POST, REFER TO DTL 6/AP505.
3. INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END, REFER TO DTL 6/AP501.
4. INSTALL WING PANEL, REFER TO DTL 5/AP501.
5. INSTALL WEDGE PANEL, REFER TO DTL 9/AP505.
6. EXISTING GUARDRAIL AT PERIMETER WALL TO REMAIN.
7. EXISTING CAPSTONE AT TOP OF CONCRETE WALL. DO NOT DRILL OR ANCHOR INTO CAPSTONE.
8. EXISTING ELECTRICAL.
9. EXISTING DRAIN PIPE.
10. CONNECT NEW BARRIER FENCING TO ADJACENT EXISTING FENCING AT COVERED LEVEL.
11. INSTALL & MAINTAIN CONSTRUCTION BARRIER FENCE (8FT MIN), REFER TO SPEC SECTION 01 56 00.
12. REMOVE & REPLACE EXISTING 8'-0" FENCE/GATE TO MATCH EXISTING.
13. EXISTING ELECTRICAL GENERATOR.

WALL HEIGHT SCHEDULE

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PLAN SYMBOLS
- WORK PERMITS: REFER TO LIST BELOW
- WALL HEIGHT SCHEDULE MARK
- EXISTING FENCING
- NEW BARRIER FENCING
- TEMPORARY CONSTRUCTION FENCING

WORK ITEM NOTES
1. INSTALL BARRIER TYPE C (REF 1/ BOTTOM SPEC SHEET TO DETAIL DRAWING).  
2. INSTALL BARRIER TYPE C (AT RAMP), REFER TO DETAIL 4/AP502.
4. INSTALL BARRIER TYPE C (AT RAMP), REFER TO DETAIL 4/AP502.

PLAN NOTES
1. REFER TO LIST OF GENERAL NOTES.
2. INSTALL BARRIER TYPE C (AT RAMP), REFER TO DETAIL 4/AP502.
3. INSTALL BARRIER TYPE C (AT RAMP), REFER TO DETAIL 4/AP502.
4. EXISTING GUARDRAIL AT PERIMETER WALL TO REMAIN.

KEY NOTES
1. INSTALL (2) 45° END POSTS, REFER TO DETAIL 11/AP505.
2. INSTALL WING PANEL, REFER TO DTL 5/AP501.
3. EXISTING LIGHT POLE, REFER TO DTL 1/AP503.
4. CUT AND REMOVE STEEL PLATE BETWEEN SECTIONS OF EXISTING GUARDRAIL AS NEEDED TO INSTALL LINE POSTS, REFER TO DTL 13/AP505.
5. MAINTAIN A CONTINUOUS BARRIER FENCE HEIGHT FROM TO P OF SLAB ALONG EXISTING STEPPED WALL. DO NOT STEP BARRIER FENCING.
6. EXISTING ELECTRICAL.
7. EXISTING MECHANICAL DUCTWORK.
8. EXISTING STANDPIPE AND PIPE GUARD.
9. EXISTING FENCING TO REMAIN. REMOVE, STORE, AND REINSTALL EXISTING FENCING AS NECESSARY TO PERFORM WORK.
10. INSTALL & MAINTAIN CONSTRUCTION BARRIER FENCE (8FT MIN), REFER TO SPEC SECTION 01 56 00.
11. EXISTING TELECOM EQUIPMENT. TAKE EXTREME CAUTION NOT TO DAMAGE.

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WORK ITEM NOTES
1. INSTALL BARRIER - TYPE A, REFER TO DETAIL 1/AP501

PLAN NOTES
1. EXPANSION JOINT, REFER TO DETAIL 7/AP501
2. INSTALL 45° END POST, REFER TO DTL 6/AP505
3. INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END, REFER TO DTL 6/AP501
4. INSTALL WING PANEL, REFER TO DTL 5/AP501
5. TERMINATE NEW BARRIER FENCING AT EXISTING ARCHITECTURAL CURTAIN WALL, MAINTAIN MAXIMUM OPENING OF 3-3/4".
6. EXISTING PIPE GUARD.
7. CONNECT NEW BARRIER FENCING TO ADJACENT EXISTING FENCING AT COVERED LEVEL.
8. INSTALL & MAINTAIN CONSTRUCTION BARRIER FENCE (8FT MIN), REFER TO SPEC SECTION 01 56 00.

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Ann Arbor DDA
Ann Arbor, Michigan
Parking Structure Perimeter Barrier Enhancements 2024

PLOT INFO:
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PROJECT NO.
Drawn By
Designer
Reviewer
Manager

AP131
NORTH
LEVEL 1
LEVEL 2
LEVEL 3
LEVEL 4
LEVEL 5
LEVEL 6
LEVEL 7
LEVEL 8

FOURTH & WILLIAM - LEVEL 8 PLAN

NORTH
PLAN SYMBOLS
- WORK jonga, REFER TO DETAIL. SCHEDULE MARK
- EXISTING FENCING
- NEW BARRIER FENCING
- TEMPORARY CONSTRUCTION FENCING

WORK ITEM NOTES
- INSTALL BARRIER TYPE A, REFER TO DETAIL. INSTALL BARRIER TYPE A, REFER TO DETAIL. INSTALL BARRIER TYPE A (AT RAMP), REFER TO DETAIL. INSTALL BARRIER TYPE E, REFER TO DETAIL.
- INSTALL BARRIER TYPE A, REFER TO DETAIL. INSTALL BARRIER TYPE E, REFER TO DETAIL.

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WORK ITEM NOTES
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2. INSTALL BARRIER TYPE E, REFER TO DETAIL.
3. INSTALL BARRIER TYPE A (AT RAMP), REFER TO DETAIL.
4. INSTALL BARRIER TYPE E, REFER TO DETAIL.

PLANNED-BARRIER ENHANCEMENTS 2024

LEVEL 7 PLAN

KEY NOTES
- INSTALL BARRIER TYPE A, REFER TO DETAIL
- INSTALL BARRIER TYPE E, REFER TO DETAIL
- INSTALL BARRIER TYPE A (AT RAMP), REFER TO DETAIL
- INSTALL BARRIER TYPE E, REFER TO DETAIL

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<td>33&quot; - 46&quot;</td>
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<td>47&quot; - 50&quot;</td>
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<td>40&quot; - 42.5&quot;</td>
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<td>44&quot; - 60&quot;</td>
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PLAN SYMBOLS
- WORK ITEM NUMBER, REFER TO LIST BELOW
- WALL HEIGHT SCHEDULE MARK
- EXISTING FENCING
- NEW BARRIER FENCING
- TEMPORARY CONSTRUCTION FENCING

WORK ITEM NOTES
1. INSTALL BARRIER TYPE A, REFER TO DETAIL AP501.

PLAN NOTES
1. REFER TO SECTION GENERAL NOTES.
   PROJECT DOCUMENTATION INCLUDES ALL APPROACHES AND INFORMATION RELATED TO THE FIXING OF STAIR AND STEEL TOWERS. MAIN BARRIER FENCING AND CONSTRUCTION MATERIALS ARE TO BE APPROVED BY ANN ARBOR DDA AND MAIN BARRIER FENCING REFER TO DETAIL AP501.

KEY NOTES
1. EXPANSION JOINT, REFER TO DETAIL AP501.
2. INSTALL (2) 45° END POSTS, REFER TO DETAIL 7/AP505.
3. INSTALL (2) 8'-6" FENCE SECTIONS W/ ANTI-CLIMB SHIELD (90° PANEL) AT SECOND POST FROM END, REFER TO DETAIL 6/AP501.
4. INSTALL WING PANEL, REFER TO DETAIL 5/AP501.
5. EXISTING BRICK AT TOP OF CONCRETE WALL. DO NOT DRILL OR ANCHOR INTO BRICK. EXISTING ELECTRICAL.
6. INSTALL & MAINTAIN CONSTRUCTION BARRIER FENCE (8FT MIN), REFER TO SPEC SECTION 01 56 00.

WORK ITEM NOTES
1. REFER TO G002 FOR GENERAL NOTES.
2. PRIOR TO BEGINNING WORK, THE ROOF LEVEL IS TO BE COMPLETELY BARRICADED TO PROHIBIT PUBLIC ACCESS, INCLUDING BUT NOT LIMITED TO THE VEHICULAR RAMP AND STAIR TOWERS. MAIN BARRIER FENCING AND CONSTRUCTION MATERIALS ARE TO BE APPROVED BY ANN ARBOR DDA.
3. REMOVE AND DISPOSE OF EXISTING FENCING TO INSTALL NEW BARRIER FENCING, REFER TO DETAIL 10/AP505.

1. INSTALL BARRIER TYPE A, REFER TO DETAIL 1/AP501.
NOTES:
1. VINYL COATING AND POWDER COATING SHALL BE BLACK.
2. REFER TO DTL 8/AP505 FOR END POST COLUMN PLAN.

Galv. Vinyl Coated Chain Link Fabric 1 1/4" Diamond Mesh, 9 Gauge.
Top selvage to be twisted & barbed.

Fabric Tie, 9 Gauge Steel, TYP.

2 3/8" OD HD Galv. Powder Coated Line & End Post W/ Fittings, TYP.

Rail Clamp, TYP.

Tension Bar, TYP.

Top of Existing Concrete Wall Tension Band @ 15" O.C.

8'-0" Max - Line Post Spacing

End Post Anchor Plate, Refer to DTL 4/AP505, TYP.
Line Post Anchor Plate, Refer to DTL 5/AP505.

Exist. Painted Metal Guardrail, TYP.

Existing Painted Concrete Column (Beyond), TYP.

Existing Painted Metal Railing (Beyond)

Top of Wash, Curb or Slab, TYP.

Schedule (VIF) H - Refer to

Galv. Vinyl Coated Chain Link Fabric 1 1/4" Diamond Mesh, 9 Gauge.
Top selvage to be twisted & barbed.

Fabric Tie, 9 Gauge Steel, TYP.

2 3/8" OD HD Galv. Powder Coated Line & End Post W/ Fittings, TYP.

1 5/8" OD Galv. Vinyl Coated Top, Middle & Bottom Rails W/ Fittings, TYP.

Tension Band, TYP.

End Post Anchor Plate Mounted on Column, Refer to DTL 4/AP505.

Shim Plate as req’d to level

R 3' - 0"
NOTES:

1. VINYL COATING AND POWDER COATING SHALL BE BLACK.

2. EXISTING GUARDRAIL TO REMAIN.

3. DO NOT DRILL OR ANCHOR INTO CAPSTONE.

4. REFER TO DTL 8/AP505 FOR END POST COLUMN PLAN.