Renovation to:

DOW EVENT CENTER PARKING RAMP

202 JOHNSON STREET
SAGINAW, MICHIGAN 48601

OWNER:

THE COUNTY OF SAGINAW, MICHIGAN
DOW EVENT CENTER
303 JOHNSON STREET
SAGINAW, MICHIGAN 48607

ARCHITECT/ENGINEER:

Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

CONTACT INFO: Terry Miner, P.E.
PROJECT MANAGER

EMAIL: tminer1475@kibbe.com
PHONE: (989) 752-5000
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WEB: www.kibbe.com

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C3.1 NEW SITE LAYOUT AND DIMENSION PLAN
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PROJECT INFORMATION:

- BUILDING CODE COMPLIANCE: MICHIGAN BUILDING CODE (MBC) 2009 ED.
  MICHIGAN PLUMBING CODE (MPC) 2009 ED.
  INTERNATIONAL FIRE CODE (IFC) 2009 ED.
  NATIONAL ELECTRICAL CODE (NEC) STANDARD 2008 EDITION
  MICHIGAN ELECTRICAL CODE RULES PART 8 2008 ED.
  MICHIGAN MECHANICAL CODE (MMC) 2009 ED.
  INTERNATIONAL ENERGY CODE

- USE GROUP: GROUP S-2 (LOW HAZARD STORAGE)

- TYPE OF CONSTRUCTION: TYPE I B (AREA UNLIMITED PER TABLE 406.3.5)

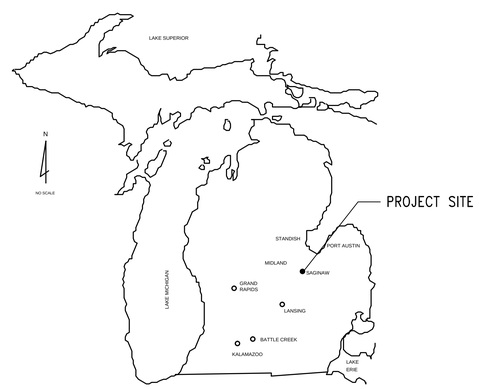
- SCHEDULE OF ALTERNATES:

A. ALTERNATE No. E-1: REPLACEMENT FOR STAIR LIGHTING FIXTURES.

1. BASE BID: LED TYPE AS INDICATED ON DRAWINGS "LIGHTING FIXTURES SCHEDULE".
2. ALTERNATE: FLUORESCENT TYPE AS INDICATED ON DRAWINGS " LIGHTING FIXTURE SCHEDULE".

B. ALTERANTE No. A-1: ELEVATOR LAYOUT SPACE.

1. GENERAL CONTRACTOR WILL SUPPLY AND CONSTRUCT A 10'x20' WEATHERPROOF ROOM, COMPLETE WITH LOCKABLE DOOR, TO UNDERSIDE OF BASEMENT LEVEL DECK. ROOM WILL PROVIDE LAY DOWN SPACE FOR ELEVATOR CONTRACTOR. IT WILL BE 2x6 STUDS @ 24" O.C. MAX. WITH PLYWOOD SHEATHING EXTERIOR.



LOCATION MAP

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	TM

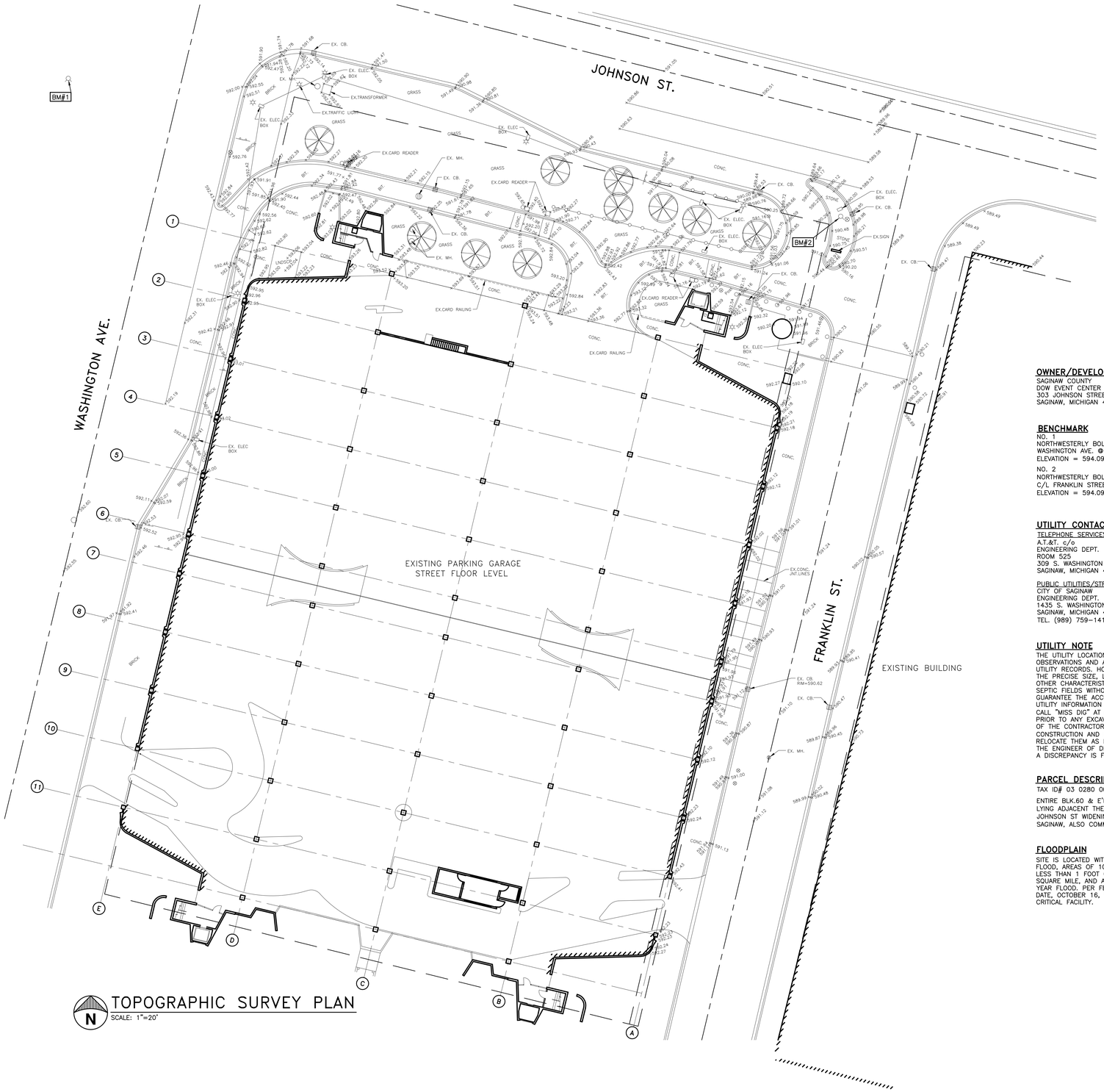
STATUS/REVISIONS

Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

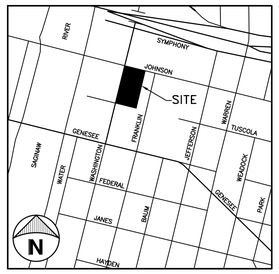
SHEET TITLE: TITLE SHEET
DRAWING NUMBER: TS
SHEET 1 OF 1



TOPOGRAPHIC SURVEY PLAN

SCALE: 1"=20'

Know what's **below.**
Call before you dig.



LOCATION MAP
NOT TO SCALE

LEGEND

- EX. SPOT GRADE
- EX. SANITARY SEWER W/MANHOLE
- EX. STORM SEWER
- EX. WATERMAIN
- EX. ELECTRIC LINE
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. GAS LINE
- EX. TELEPHONE LINE
- EX. OVERHEAD UTILITY WIRES
- EX. SIGN WITH POST
- EX. BUILDINGS
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- EX. WATER OR GAS VALVE
- EX. UTILITY POLE
- EX. SEWER CLEANOUT
- EX. WATER WELL
- EX. LIGHT POLE
- EX. UTILITY RISER OR BOX
- EX. MAILBOX

OWNER/DEVELOPER

SAGINAW COUNTY
DOW EVENT CENTER
303 JOHNSON STREET
SAGINAW, MICHIGAN 48607

BENCHMARK

NO. 1
NORTHWESTERLY BOLT TOP FLANGE HYDRANT SW. QUAD WASHINGTON AVE. @ JOHNSON ST.
ELEVATION = 594.09 (NAVD 88 DATUM)

NO. 2
NORTHWESTERLY BOLT TOP FLANGE HYDRANT 25' WEST OF C/L FRANKLIN STREET & 46' SOUTH C/L JOHNSON STREET
ELEVATION = 594.09 (NAVD 88 DATUM)

UTILITY CONTACTS

TELEPHONE SERVICES
A.T.&T. c/o
ENGINEERING DEPT.
ROOM 525
309 S. WASHINGTON AVENUE
SAGINAW, MICHIGAN 48607

PUBLIC UTILITIES/STREETS
CITY OF SAGINAW
ENGINEERING DEPT.
1435 S. WASHINGTON
SAGINAW, MICHIGAN 48601
TEL. (989) 759-1410

GAS & ELECTRIC
CONSUMERS ENERGY
2400 WEISS STREET
SAGINAW, MICHIGAN 48602
(517) 791-5903

ZONING
CITY OF SAGINAW
PLANNING DEPT.
CITY HALL
TEL. (989) 759-1303

UTILITY NOTE

THE UTILITY LOCATIONS AS HEREIN SHOWN ARE BASED ON FIELD OBSERVATIONS AND A CAREFUL REVIEW OF MUNICIPAL AND UTILITY RECORDS. HOWEVER, IT IS NOT POSSIBLE TO DETERMINE THE PRECISE SIZE, LOCATION, DEPTH, PRESSURE, OR ANY OTHER CHARACTERISTICS OF UNDERGROUND UTILITIES, TANKS OR SEPTIC FIELDS WITHOUT EXCAVATION. THEREFORE, WE CANNOT GUARANTEE THE ACCURACY OF COMPLETENESS OF THE BURIED UTILITY INFORMATION HEREIN SHOWN. THE CONTRACTOR SHALL CALL "MISS DIG" AT (811) A MINIMUM OF THREE WORKING DAYS PRIOR TO ANY EXCAVATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THESE LOCATIONS PRIOR TO CONSTRUCTION AND MAKE EVERY EFFORT TO PROTECT AND/OR RELOCATE THEM AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DESIGN AS SOON AS POSSIBLE IN THE EVENT A DISCREPANCY IS FOUND.

PARCEL DESCRIPTION

TAX ID# 03 0280 00000

ENTIRE BLK.60 & E'LY 1/2 OF VACATED N BAUM ST LYING ADJACENT THERTO (EXC N 24 FT TAKEN FOR JOHNSON ST WIDENING) MAP OF THE CITY OF EAST SAGINAW, ALSO COMMONLY KNOWN AS HOYT'S PLAT.

FLOODPLAIN

SITE IS LOCATED WITHIN ZONE "X" – AREAS OF THE 500 YEAR FLOOD, AREAS OF 100 YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS PROTECTED BY LEVEES FROM 100 YEAR FLOOD. PER FEMA MAP, PANEL 26145C0135 D, EFFECTIVE DATE, OCTOBER 16, 1997. PROPOSED PROJECT IS NOT A CRITICAL FACILITY.

REV. #	DATE	DESCRIPTION	BY
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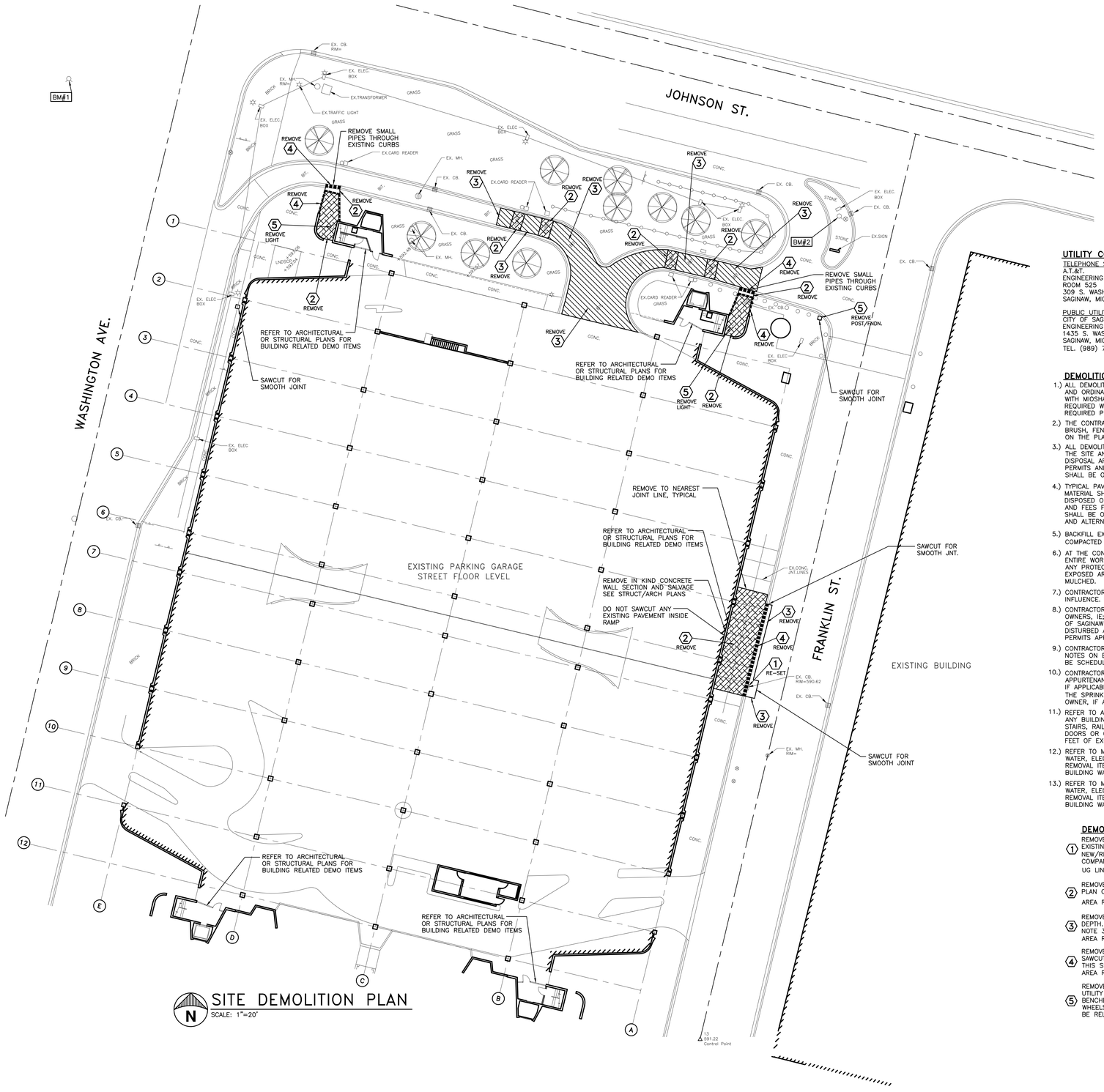
	07-23-12	ISSUED FOR BID	JW

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

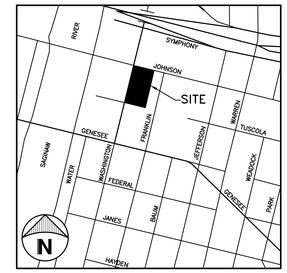
DRAWN BY: TAG	SHEET TITLE: TOPOGRAPHIC SURVEY PLAN
DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C1.1
PROJECT NUMBER: 12-0462-0190	SHEET 1 OF



SITE DEMOLITION PLAN

SCALE: 1"=20'

Know what's **below.** **Call** before you dig.



LOCATION MAP

NOT TO SCALE

UTILITY CONTACTS

TELEPHONE SERVICES
A.T.&T.
ENGINEERING DEPT.
ROOM 525
309 S. WASHINGTON AVENUE
SAGINAW, MICHIGAN 48607

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DEMOLITION NOTES:

1.) ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND ORDINANCES. ALL DEMOLITION OPERATIONS SHALL COMPLY WITH MIOSHA REGULATIONS INSOFAR AS THEY APPLY TO THE REQUIRED WORK. A SOIL EROSION CONTROL PLAN WILL BE REQUIRED PRIOR TO DEMOLITION.

2.) THE CONTRACTOR SHALL REMOVE AND CLEAR ALL TREES, BRUSH, FENCES, BUILDINGS, CURB AND PAVEMENT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

3.) ALL DEMOLITION MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGALLY DESIGNATED DISPOSAL AREA. NO ON-SITE BURNING WILL BE PERMITTED. PERMITS AND FEES FOR DISPOSAL OF DEMOLITION MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

4.) TYPICAL PAVEMENT SECTION NOTE: ALL SURPLUS EXCAVATED MATERIAL SHALL BE PROPERLY REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL DESIGNATED DISPOSAL AREA. PERMITS AND FEES FOR DISPOSAL OF SURPLUS EXCAVATED MATERIAL SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR. BASE AND ALTERNATE BIDS.

5.) BACKFILL EXCAVATED AREAS WITH CLEAN GRANULAR FILL COMPACTED TO 95% DENSITY IN 12" LIFTS.

6.) AT THE CONCLUSION OF THE DEMOLITION OPERATIONS, THE ENTIRE WORK AREA SHALL BE LEFT IN A CLEAN CONDITION WITH ANY PROTECTIVE DEVICES AND BARRIERS REMOVED. ALL EXPOSED AREAS SHALL BE SUITABLE TOPSOIL, SEEDED AND MULCHED.

7.) CONTRACTOR TO VERIFY ALL UTILITIES WITHIN CONSTRUCTION INFLUENCE. NOTIFY ENGINEER OF ANY CONFLICTS.

8.) CONTRACTOR SHALL COORDINATE WITH ALL LOCAL UTILITY OWNERS, IE; AT&T, CONSUMERS ENERGY, CHARTER COMM., CITY OF SAGINAW AND ALL OTHERS THAT WOULD APPLY TO THE DISTURBED AREA OF CONSTRUCTION. OBTAIN NECESSARY PERMITS APPLICABLE.

9.) CONTRACTOR SHALL VERIFY CONSTRUCTION SCHEDULING AND NOTES ON EACH SHEET PRIOR TO DEMOLITION. DEMOLITION TO BE SCHEDULED WITH OWNER AND ENGINEER.

10.) CONTRACTOR TO VERIFY ALL SPRINKLER SYSTEM APPURTENANCES WITHIN PROPOSED NEW CONSTRUCTION AREAS, IF APPLICABLE. CONTRACTOR SHALL REMOVE AND RELOCATE PER THE SPRINKLER MANUFACTURER'S SPECIFICATIONS AND PER OWNER, IF APPLICABLE.

11.) REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR REMOVAL OF ANY BUILDING RELATED ITEMS SUCH AS WALLS ATTACHED STAIRS, RAILINGS, GUARD RAILS, POSTS, SUPPORTED SLABS, DOORS OR OTHER BUILDING RELATED DEMO ITEMS WITHIN 5 FEET OF EXISTING BUILDING WALLS, IF APPLICABLE.

12.) REFER TO MECHANICAL/ELECTRICAL FOR ANY STORM, SANITARY, WATER, ELECTRICAL, COMMUNICATION OR GAS ITEM DEMO REMOVAL ITEMS ALONG AND WITHIN 5 FEET OF EXISTING BUILDING WALLS.

13.) REFER TO MECHANICAL/ELECTRICAL FOR ANY STORM, SANITARY, WATER, ELECTRICAL, COMMUNICATION OR GAS ITEM DEMO REMOVAL ITEMS ALONG AND WITHIN 5 FEET OF EXISTING BUILDING WALLS.

DEMOLITION KEYED NOTES:

1. REMOVE, ABANDON, RE-SET, ADJUST, RE-ROUTE EXISTING UTILITY SERVICE. SEE NEW SITE PLANS FOR NEW/RELOCATED ITEMS. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION. IF APPLICABLE.
   UG LINE AREA REPRESENTED BY:
2. REMOVE EXISTING CONCRETE SURFACES. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET.
   AREA REPRESENTED BY:
3. REMOVE EXISTING BIT. SURFACES AND SUB-BASE FULL DEPTH. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET.
   AREA REPRESENTED BY:
4. REMOVE EXISTING CONCRETE CURBING AND SUB-BASE. SAWCUT PER PLAN OR TO NEAREST JOINT. SEE NOTE 3 THIS SHEET.
   AREA REPRESENTED BY:
5. REMOVE EXISTING FENCES, POSTS, BOLLARDS, GATES, UTILITY POLES, LIGHT POLES, LIGHT FIXTURE, SIGNS, BENCHES, TRASH CONTAINERS, GUARD RAILS AND WHEELSTOPS, ETC. SEE NEW SITE PLANS FOR ITEMS TO BE RELOCATED OR SALVAGED.

LEGEND

- EX. SPOT GRADE
- EX. SANITARY SEWER W/MANHOLE
- EX. STORM SEWER
- EX. WATERMAIN
- EX. ELECTRIC LINE
- EX. CHAINLINK FENCE
- EX. WOOD FENCE
- EX. GAS LINE
- EX. TELEPHONE LINE
- EX. OVERHEAD UTILITY WIRES
- EX. SIGN WITH POST
- EX. BUILDINGS
- EX. BITUMINOUS PAVEMENT
- EX. CONCRETE PAVEMENT (C. OR CONC.)
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- EX. LIGHT POLE
- EX. UTILITY RISER OR BOX
- EX. MAILBOX

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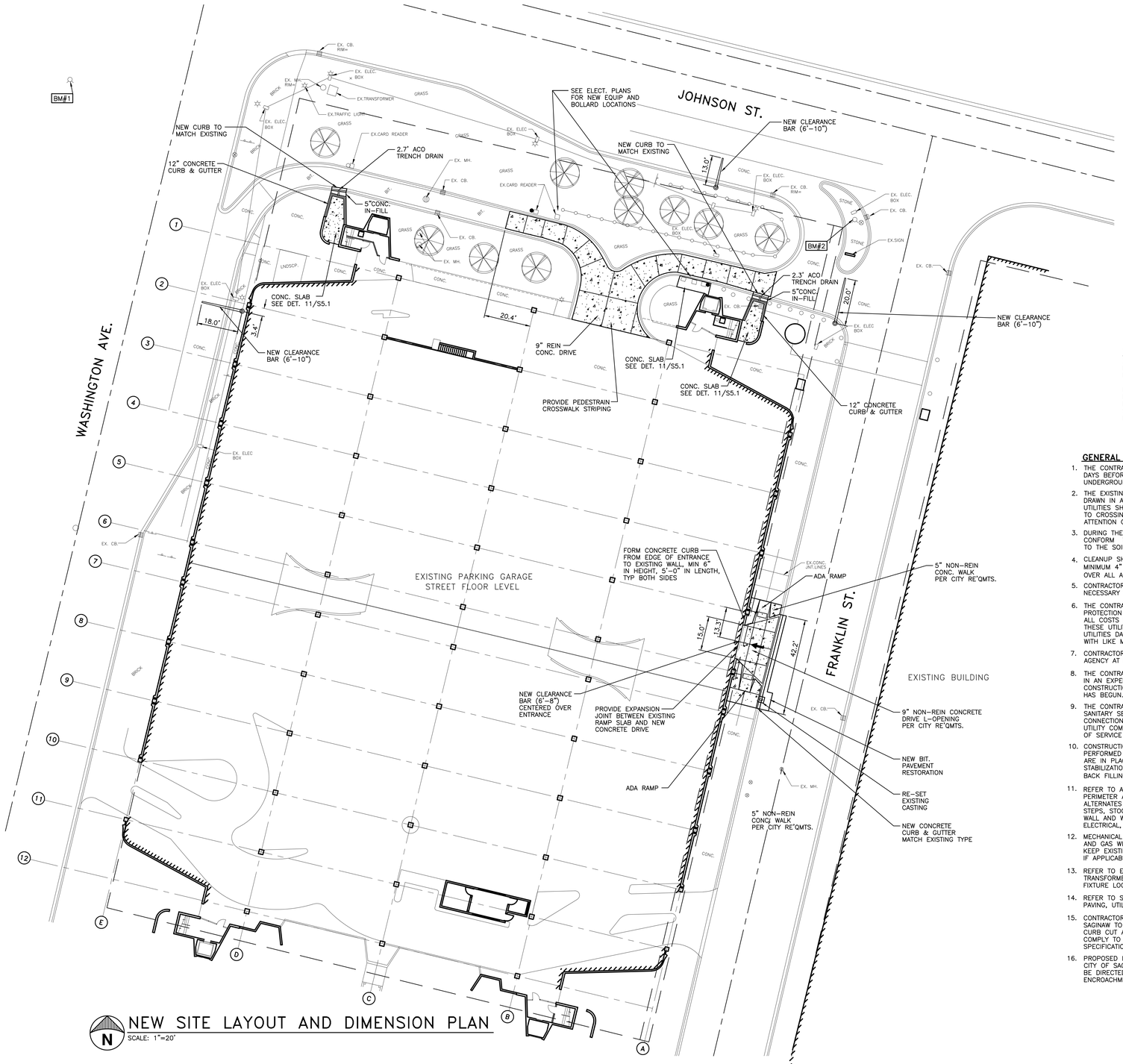
STATUS/REVISIONS

Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

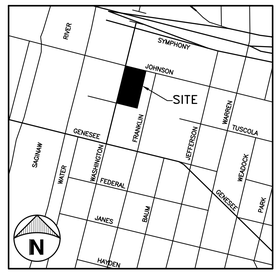
DRAWN BY: TAG	SHEET TITLE: SITE DEMOLITION PLAN
DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C2.1
PROJECT NUMBER: 12-0462-0190	SHEET 2 OF



NEW SITE LAYOUT AND DIMENSION PLAN

SCALE: 1"=20'

Know what's **below.**
Call before you dig.



LOCATION MAP

NOT TO SCALE

LEGEND

- EX. SPOT GRADE
- EX. SANITARY SEWER W/MANHOLE
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- EX. UTILITY POLE
- EX. SEWER CLEANOUT
- EX. WATER WELL
- EX. LIGHT POLE
- EX. UTILITY RISER OR BOX
- EX. MAILBOX
- PROP. STORM CATCH BASIN/MANHOLE
- PROP. STORM SEWER
- PROP. BITUMINOUS PAVEMENT
- PROP. CONCRETE PAVEMENT
- PROP. BRICK PATTERN SIDEWALK
- PROP. LIGHTPOLE

ZONING INFORMATION

ZONED:
B-3
PROPOSED USE – PAID PUBLIC PARKING

BUILDING SETBACKS:
B-3
FRONT YARD = 0 FEET
SIDE YARD = 0 FEET
REAR YARD = 0 FEET

GENERAL SITE NOTES:

1. THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
2. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
4. CLEANUP SHALL INCLUDE DEBRIS REMOVAL, ROUGH GRADING, MINIMUM 4" TOPSOIL PLACEMENT, SEEDING, AND FERTILIZING OVER ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
5. CONTRACTOR TO SUPPLY ALL MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK.
6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COSTS FOR LOCATING, REMOVING, REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED WITH LIKE MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL NOTIFY PROPER GOVERNMENTAL INSPECTION AGENCY AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
8. THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE ALL WORK IN AN EXPEDITIOUS MANNER AND SHALL NOT STOP CONSTRUCTION FOR EXTENDED PERIODS ONCE CONSTRUCTION HAS BEGUN.
9. THE CONTRACTOR SHALL MAINTAIN IN SERVICE, ALL EXISTING SANITARY SEWER, WATER OR STORM SEWER SERVICE CONNECTIONS WHENEVER POSSIBLE. COORDINATE WITH LOCAL UTILITY COMPANY AND OWNER BEFORE ANY UTILITIES TO BE OUT OF SERVICE FOR A PERIOD OF TIME.
10. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACK FILLING AND/OR GRADING OPERATIONS.
11. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR EXACT PERIMETER AND INSIDE BUILDING DIMENSIONS, BIDDING ALTERNATES AND DETAILS REFERRING TO ANY PLANTERS, RAMPS, STEPS, STOOPS, ELEVATOR PITS, ELEVATOR SHAFTS, RETAINING WALL AND WALL ENCLOSURES. FOR PIPING, HVAC AND ELECTRICAL, SEE MECHANICAL AND ELECTRICAL PLANS.
12. MECHANICAL ENGINEER SHALL COORDINATE ONSITE ELECTRICAL AND GAS WITH LOCAL UTILITY COMPANY. CONTRACTOR SHALL KEEP EXISTING SERVICES IN PLACE OR RE-ROUTE TEMPORARILY, IF APPLICABLE.
13. REFER TO ELECTRICAL SITE PLANS FOR UG CONDUITS, TRANSFORMERS, OHD LINE COORDINATION AND LIGHT POLE, LIGHT FIXTURE LOCATIONS AND DETAILS.
14. REFER TO SITE GRADING PLANS FOR MORE DETAILED NOTES FOR PAVING, UTILITIES AND FINISHED GRADES.
15. CONTRACTOR IS REQUIRED TO HAVE PERMITS FROM CITY OF SAGINAW TO INCLUDE BARRICADING, STREET CUT, SIDEWALK, CURB CUT AND SEWER EXTENSIONS. ALL SITE WORK WILL COMPLY TO THE LATEST RULES AND REGULATIONS AND SPECIFICATIONS PER THE CITY OF SAGINAW.
16. PROPOSED LIGHTING SHALL BE IN ACCORDANCE TO THE LATEST CITY OF SAGINAW GUIDELINES. ALL POLE MOUNTED LIGHTS SHALL BE DIRECTED IN A DOWNWARD MANNER AND AVOID ANY ENCROACHMENT ONTO ANY RESIDENTIAL PROPERTIES.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	JW

STATUS/REVISIONS

Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

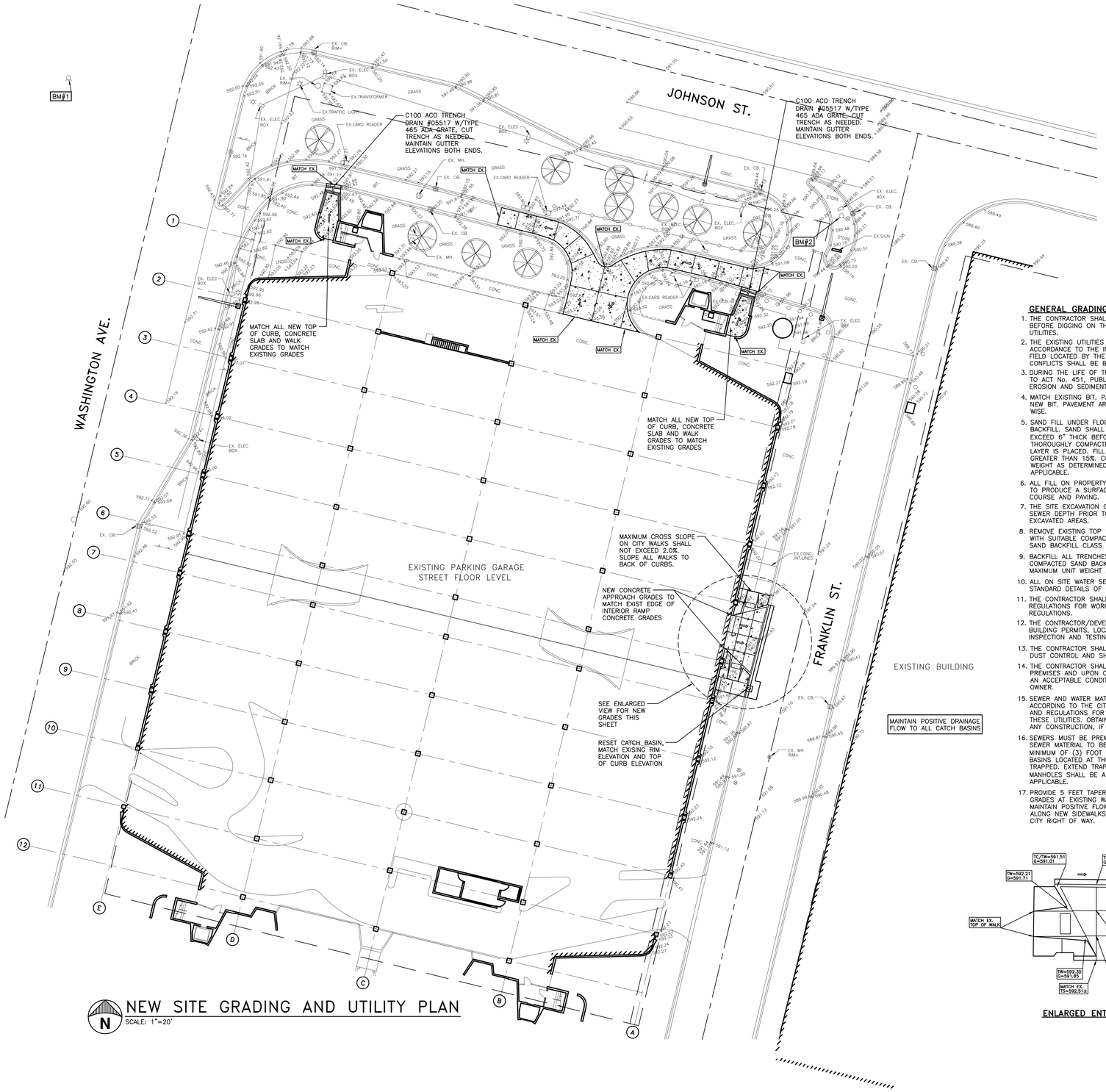
PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: TAG
DESIGNED BY: TAG
CHECKED BY: JCW
APPROVED BY: JCW
PROJECT NUMBER: 12-0462-0190

SHEET TITLE: NEW SITE LAYOUT AND DIMENSION PLAN

DRAWING NUMBER: C3.1

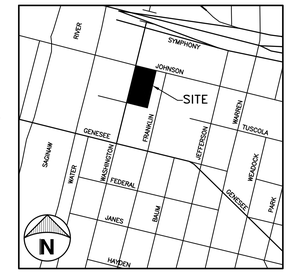
SHEET 3 OF



NEW SITE GRADING AND UTILITY PLAN

SCALE: 1"=20'

Know what's **below.** **Call** before you dig.



LOCATION MAP

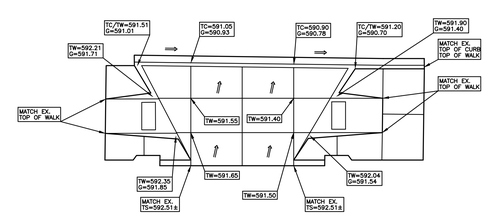
NOT TO SCALE

LEGEND

591.36	EX. SPOT GRADE
SAN	EX. SANITARY SEWER W/MANHOLE
STM	EX. STORM SEWER
WAT	EX. WATERMAIN
ELEC	EX. ELECTRIC LINE
X	EX. CHAINLINK FENCE
O	EX. WOOD FENCE
GAS	EX. GAS LINE
TELE	EX. TELEPHONE LINE
	EX. SIGN WITH POST
	EX. BUILDINGS
	EX. BITUMINOUS PAVEMENT
	EX. CONCRETE PAVEMENT (C. OR CONC.)
	EX. STEEL POST
	EX. STORM CURB INLET
	EX. STORM CATCH BASIN/MANHOLE
	EX. HYDRANT
	EX. WATER OR GAS VALVE
	EX. UTILITY POLE
	EX. LIGHT POLE
	EX. UTILITY RISER OR BOX
	PROP. STORM CATCH BASIN/MANHOLE
	PROP. STORM SEWER
	PROP. BITUMINOUS PAVEMENT
	PROP. CONCRETE PAVEMENT
	PROP. BRICK PATTERN SIDEWALK
	PROP. LIGHTPOLE
784	PROP. FINISH GRADE
	PROP. DRAINAGE FLOW
FS	FINISH SURFACE
TC	TOP OF CONCRETE CURB
TW	TOP OF CONCRETE WALK
TS	TOP OF CONCRETE SLAB
TB	TOP OF FINISH BIT
ME	MATCH EXISTING GRADE

GENERAL GRADING NOTES:

1. THE CONTRACTOR SHALL CALL "MISS DIG" (811) 3 WORKING DAYS BEFORE DIGGING ON THE PROJECT TO VERIFY EXISTING UNDERGROUND UTILITIES.
2. THE EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN DRAWN IN ACCORDANCE TO THE INFORMATION PROVIDED. ALL UTILITIES SHALL BE FIELD LOCATED BY THE CONTRACTOR PRIOR TO CROSSING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. DURING THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL CONFORM TO ACT No. 451, PUBLIC ACTS OF 1994, RELATIVE TO THE SOIL EROSION AND SEDIMENTATION CONTROL ACT.
4. MATCH EXISTING BIT. PAVEMENT ALONG NEW WALKS AND PROPOSED NEW BIT. PAVEMENT AREAS WHERE APPLICABLE. UNLESS NOTED OTHER WISE.
5. SAND FILL UNDER FLOOR SLABS SHALL BE MDOT CL.II GRANULAR BACKFILL. SAND SHALL BE SPREAD IN UNIFORM LAYERS NOT TO EXCEED 6" THICK BEFORE COMPACTION. EACH LAYER SHALL BE THOROUGHLY COMPACTED WITH A VIBRATING COMPACTOR AFTER EACH LAYER IS PLACED. FILL SAND SHALL NOT HAVE A MOISTURE CONTENT GREATER THAN 15%. COMPACTION SHALL MEET 95% OF MAXIMUM UNIT WEIGHT AS DETERMINED BY THE MODIFIED PROCTOR TEST, IF APPLICABLE.
6. ALL FILL ON PROPERTY SHALL BE ADEQUATELY COMPACTED BY ROLLING TO PRODUCE A SURFACE SATISFACTORY FOR THE INSTALLATION OF BASE COURSE AND PAVING.
7. THE SITE EXCAVATION CONTRACTOR SHALL VERIFY THE EXISTING STORM SEWER DEPTH PRIOR TO ANY FOOTING EXCAVATION OR OTHER EXCAVATED AREAS.
8. REMOVE EXISTING TOP SOIL FROM AREAS TO BE PAVED AND REPLACE WITH SUITABLE COMPACTED FILL. FILL MATERIAL SHALL BE COMPACTED SAND BACKFILL CLASS II GRANULAR.
9. BACKFILL ALL TRENCHES UNDER SLABS, WALKS AND PAVED AREAS WITH COMPACTED SAND BACKFILL MDOT CL.II. COMPACTION SHALL BE 95% MAXIMUM UNIT WEIGHT AS DETERMINED BY MODIFIED PROCTOR.
10. ALL ON SITE WATER SERVICE SHALL MEET THE REQUIREMENTS OF THE STANDARD DETAILS OF CITY OF SAGINAW, IF APPLICABLE.
11. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS FOR WORK AT THE SITE. THIS SHALL INCLUDE MIOSHA REGULATIONS.
12. THE CONTRACTOR/DEVELOPER SHALL PAY FOR AND OBTAIN ALL BUILDING PERMITS, LOCAL PERMITS AND PAY ALL CHARGES FOR ANY INSPECTION AND TESTING.
13. THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM OF DUST CONTROL AND SHALL ALLOW NO ON-SITE BURNING.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES AND UPON COMPLETION OF THE PROJECT LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE ENGINEER OR THE OWNER.
15. SEWER AND WATER MATERIALS AND SERVICES MUST BE INSTALLED ACCORDING TO THE CITY OF SAGINAWS LATEST STANDARDS AND RULES AND REGULATIONS FOR THE CONSTRUCTION AND MAINTENANCE OF THESE UTILITIES. OBTAIN ALL NECESSARY PERMITS AND FEES PRIOR TO ANY CONSTRUCTION, IF APPLICABLE.
16. SEWERS MUST BE PREMIUM JOINT, BELL AND SPIGOT ENDS. SANITARY SEWER MATERIAL TO BE SDR-26. ALL CATCH BASINS MUST BE A MINIMUM OF (3) FOOT DIAMETER WITH (2) FOOT SUMPS. ALL CATCH BASINS LOCATED AT THE INITIAL SEWER EXTENSIONS SHALL BE TRAPPED. EXTEND TRAPS TO OUTLET INVERTS IF APPLICABLE. ALL MANHOLES SHALL BE A MINIMUM OF (4) FOOT DIAMETER, IF APPLICABLE.
17. PROVIDE 5 FEET TAPERS FOR CONCRETE CURBS DOWN TO EXISTING GRADES AT EXISTING WALK SURFACES AT JOHNSON STREET DRIVE. MAINTAIN POSITIVE FLOW ALONG CURB LINE. MAXIMUM CROSS SLOPE ALONG NEW SIDEWALKS SHALL BE NO MORE THAN 2.0% WITHIN THE CITY RIGHT OF WAY.



ENLARGED ENTRANCE AREA-FRANKLIN STREET

REV. #	DATE	DESCRIPTION	BY
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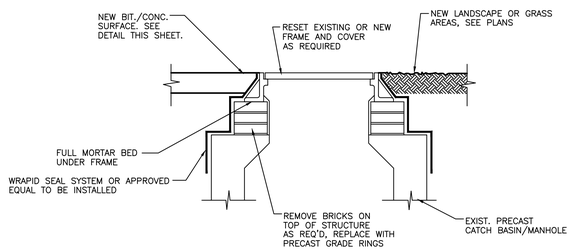
	07-23-12	ISSUED FOR BID	JW

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

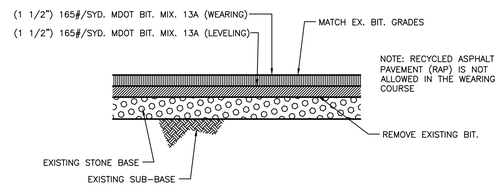
PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: TAG	SHEET TITLE: NEW SITE GRADING AND UTILITY PLAN
DESIGNED BY: TAG	
CHECKED BY: JCW	
APPROVED BY: JCW	DRAWING NUMBER: C4.1
PROJECT NUMBER: 12-0462-0190	SHEET 4 OF



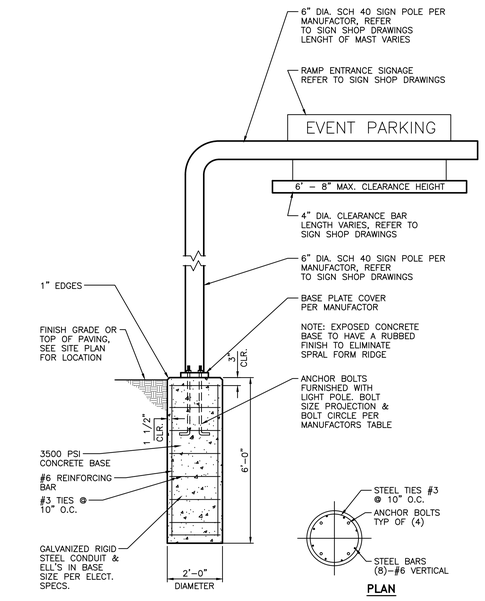
1 / C5.1 TYPICAL CATCH BASIN AND MANHOLE CASTING ADJUSTMENT

NOT TO SCALE



4 / C5.1 TYPICAL PAVEMENT PATCH SECTION

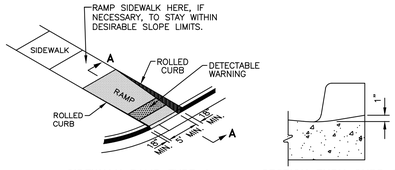
NOT TO SCALE – OPTION A & B

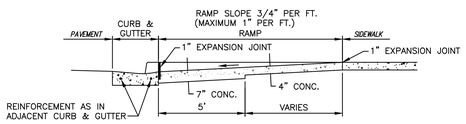


7 / C5.1 TYPICAL CLEARANCE SIGN POLE DETAIL

NOT TO SCALE

USE ADA SOLUTIONS, REPLACEABLE WET-SET TRUNCATED DOME DETECTABLE WARNING SYSTEM. 24" DEEP X 48" WIDE MIN. (PART # 2448REP), OR APPROVED EQUIVALENT. COORDINATE WITH CITY FOR EXACT MANUFACTURE, COLOR AND INSTALLATION. NEAREST EDGE WITHIN 8" OF GRADE BREAK AND FURTHEST EDGE WITHIN 5' OF BACK OF BURB. INSTALL AT BOTH SIDES OF NEW ENTRANCES FROM PUBLIC STREETS.

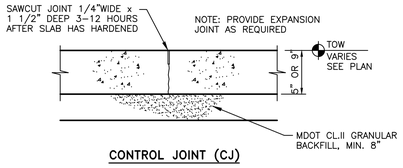




SECTION A–A
(TYPICAL ALL RAMP DETAILS)
(NOTE: ALL RAMPS MUST MEET THE LATEST ADA BARRIER FREE REQUIREMENTS)

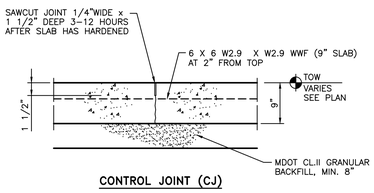
2 / C5.1 TYPICAL HANDI-CAP RAMP DETAILS-A

NOT TO SCALE



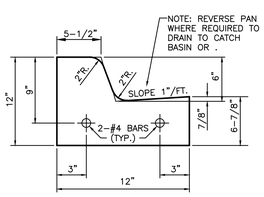
5 / C5.1 TYPICAL CONCRETE PAVING/SIDEWALK DETAIL PER CITY STANDARDS (NON-REIN.)

NOT TO SCALE



6 / C5.1 TYPICAL CONCRETE PAVING/SIDEWALK DETAIL (REIN.)

NOT TO SCALE



3 / C5.1 12" CURB DETAIL

NOT TO SCALE

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	JW

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

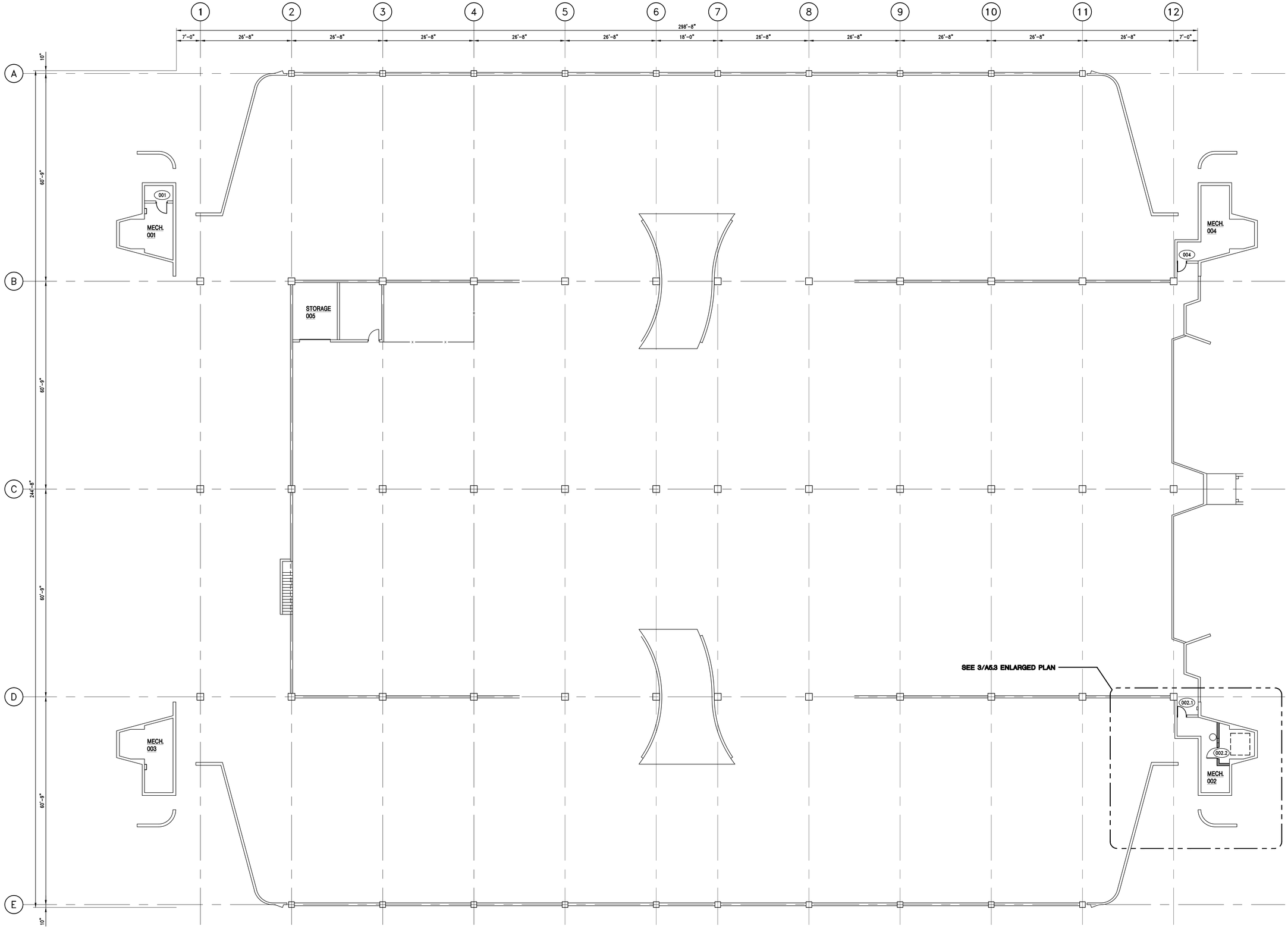
PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: TAG
DESIGNED BY: TAG
CHECKED BY: JCW
APPROVED BY: JCW
PROJECT NUMBER: 12-0462-0190

SHEET TITLE: MISCELLANEOUS SITE DETAILS

DRAWING NUMBER: C5.1

SHEET 5 OF



1 BASEMENT LEVEL
A2.1 3/32" = 1'-0"

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

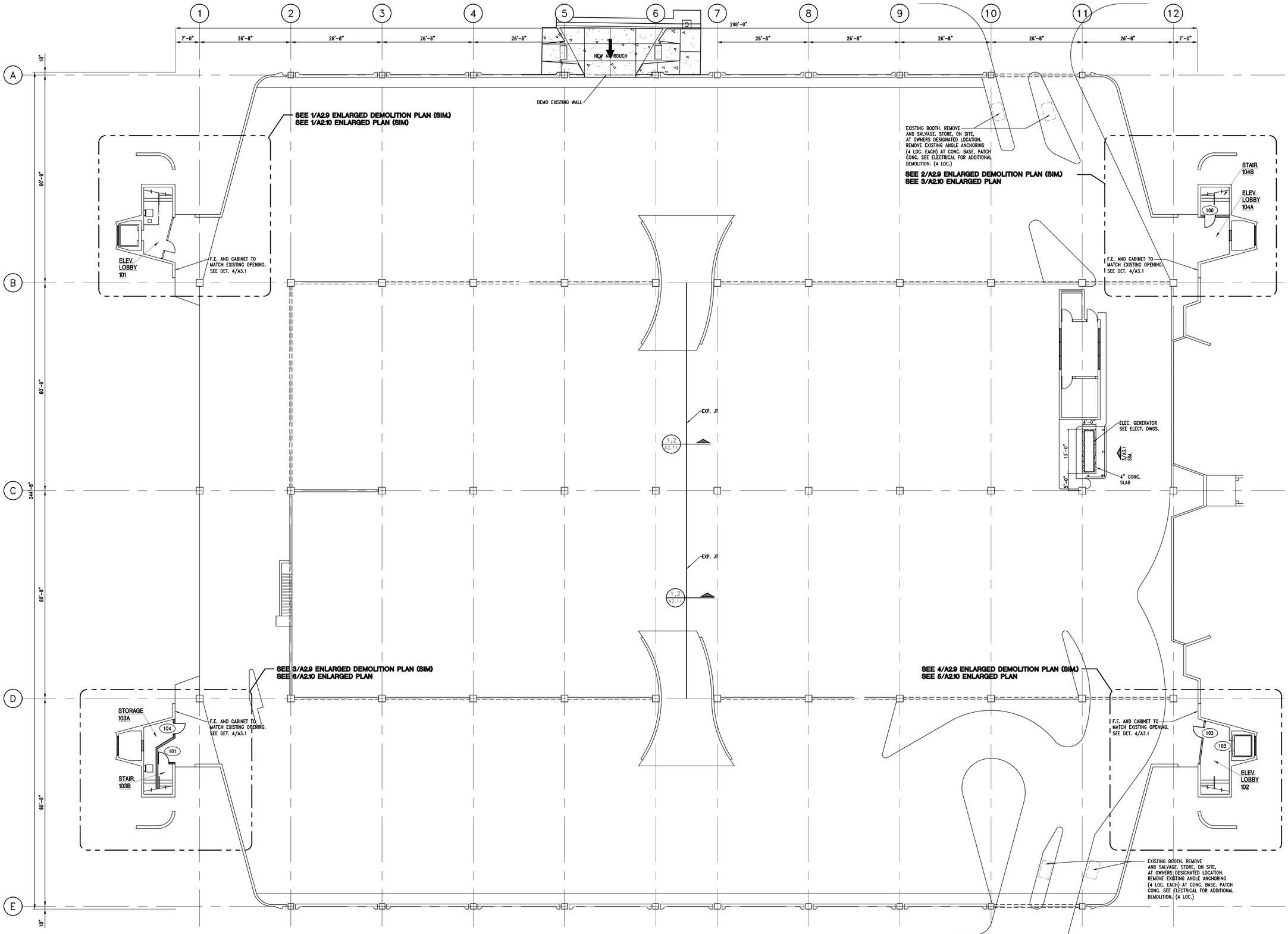
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: BASEMENT LEVEL FLOOR PLAN

DRAWING NUMBER: A2.1

SHEET 1 OF 1



1 A2.2 GROUND LEVEL
3/32" = 1'-0"

GENERAL DEMOLITION NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS.
2. OBJECTS INDICATED ON THIS DRAWING WITH DASHED LINES OR WITHIN A DASHED LINE SHALL BE REMOVED AND DISPOSED OF.
3. DEMOLISHED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL OFF SITE.
4. SEE ELECTRICAL DRAWINGS TO COORDINATE EXISTING ELECTRICAL POWER DEMOLITION REQUIREMENTS.
5. PATCH, PRIME AND PAINT ALL EXISTING WALL AND FLOOR SURFACES AFFECTED BY DEMOLITION WORK.
6. SEE MECHANICAL DRAWINGS TO COORDINATE EXISTING MECHANICAL AND PLUMBING DEMOLITION REQUIREMENTS.
7. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED.
8. MAINTAIN CONSTRUCTION IN A WEATHER TIGHT CONDITION.
9. MAINTAIN EXIT ACCESS AND EXITS.
10. OWNER INTENDS TO OCCUPY EXIST. FACILITY FOR MAXIMUM DURATION OF RENOVATION PRACTICABLE. COORDIANTE ALL TEMPORARY DUST AND BARRIER WORK AS REQUIRED.

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

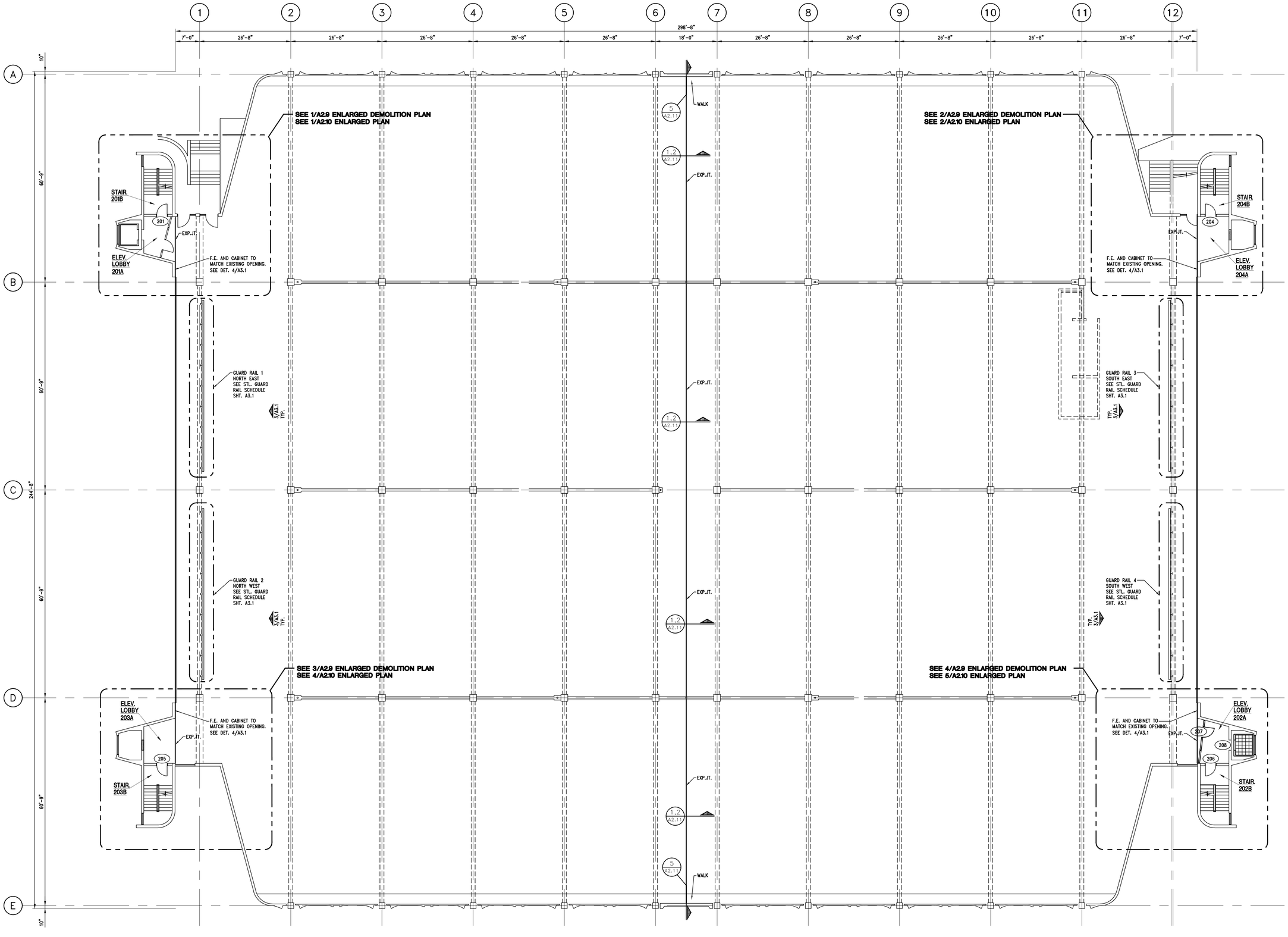
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: GROUND LEVEL FLOOR PLAN

DRAWING NUMBER: A2.2

SHEET 1 OF 1



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1 A2.3 2ND LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

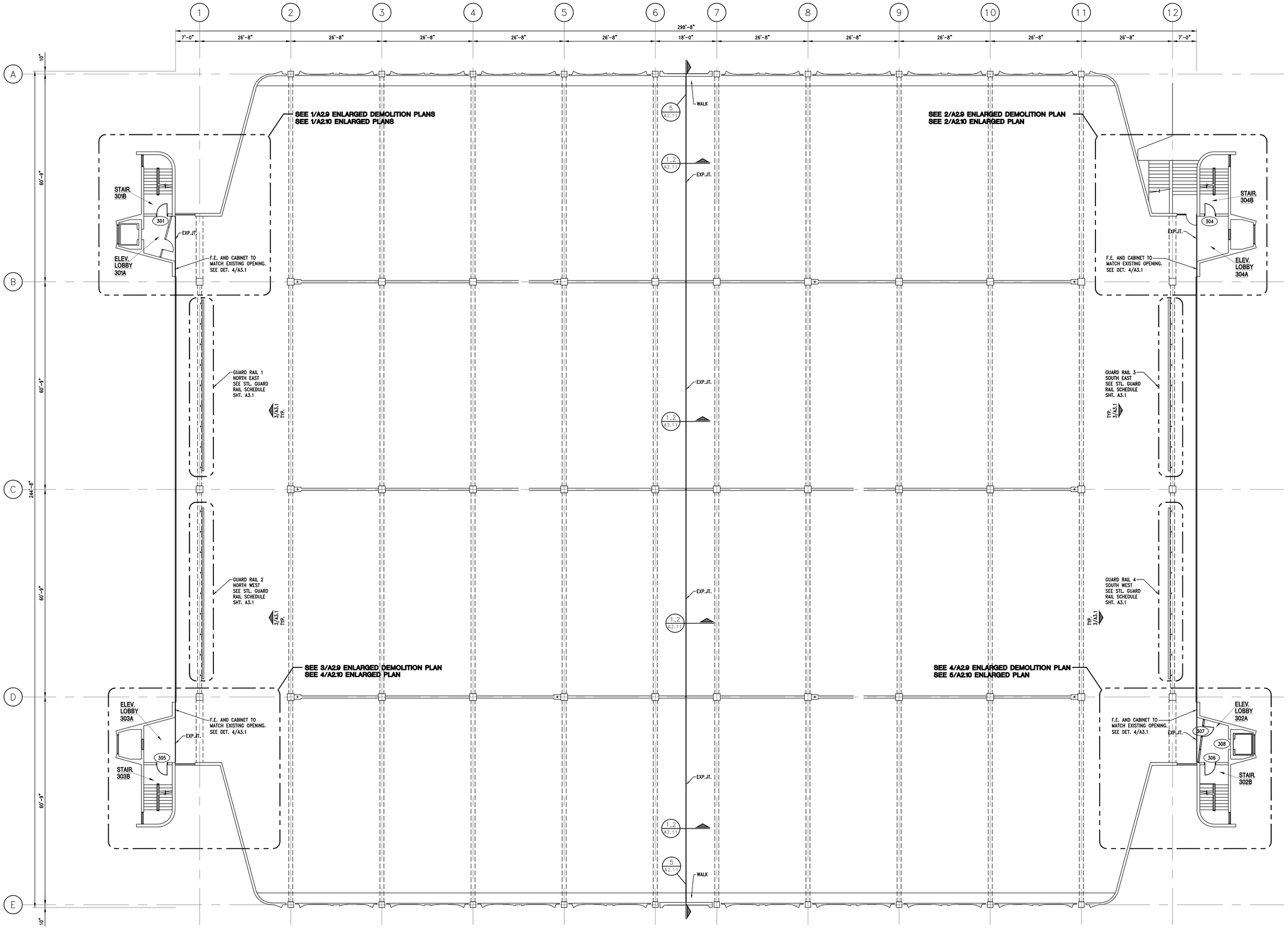
WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SECOND LEVEL FLOOR PLAN

DRAWING NUMBER: A2.3
SHEET 1 OF 1



1 A2.4 3RD LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

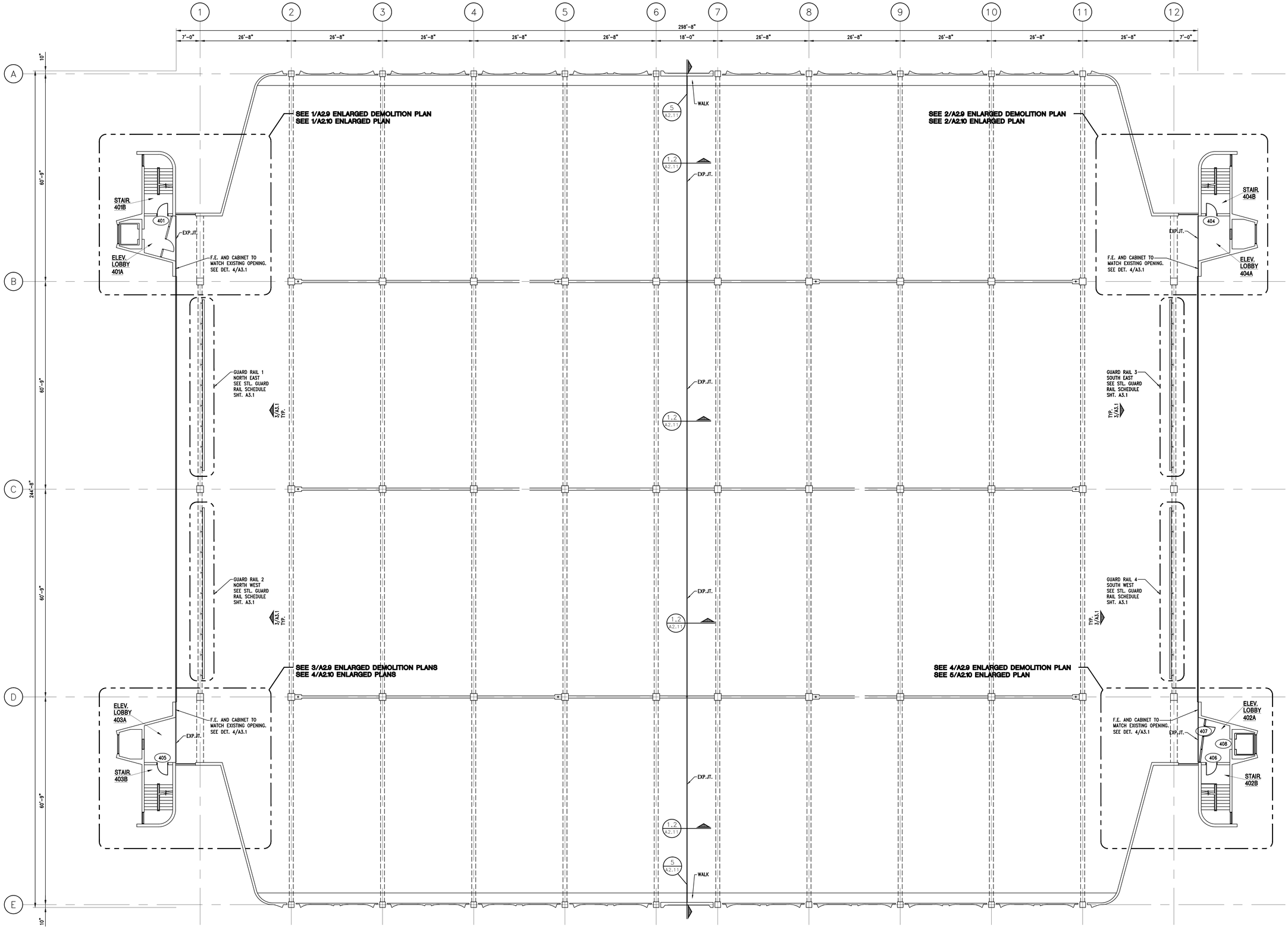
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 012-0462-0189

SHEET TITLE: THIRD LEVEL FLOOR PLAN

DRAWING NUMBER: A2.4

SHEET 1 OF 1



1 A2.5 4TH LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

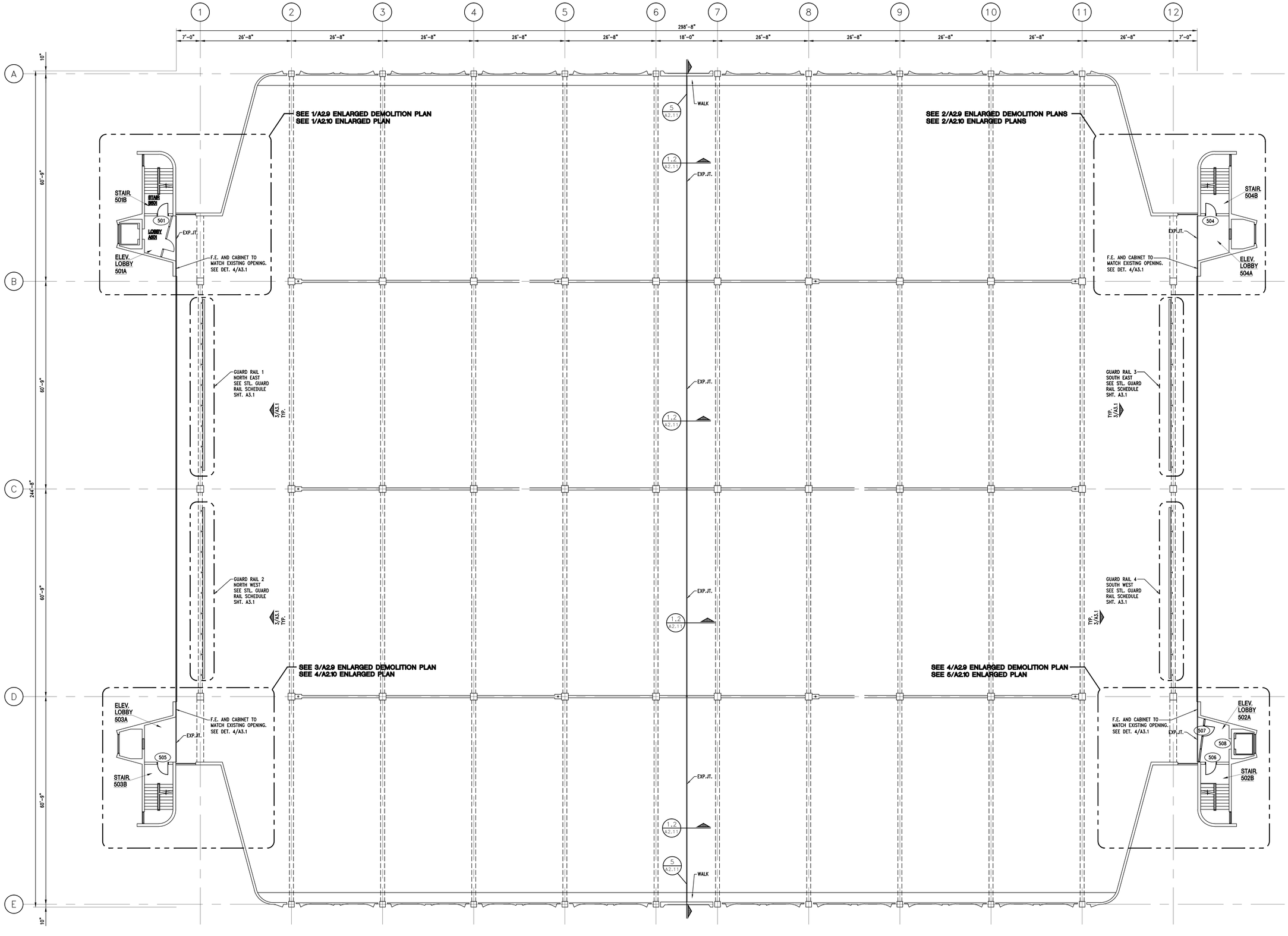
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FOURTH LEVEL FLOOR PLAN

DRAWING NUMBER: A2.5

SHEET 1 OF 1



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1 / A2.6 5TH LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

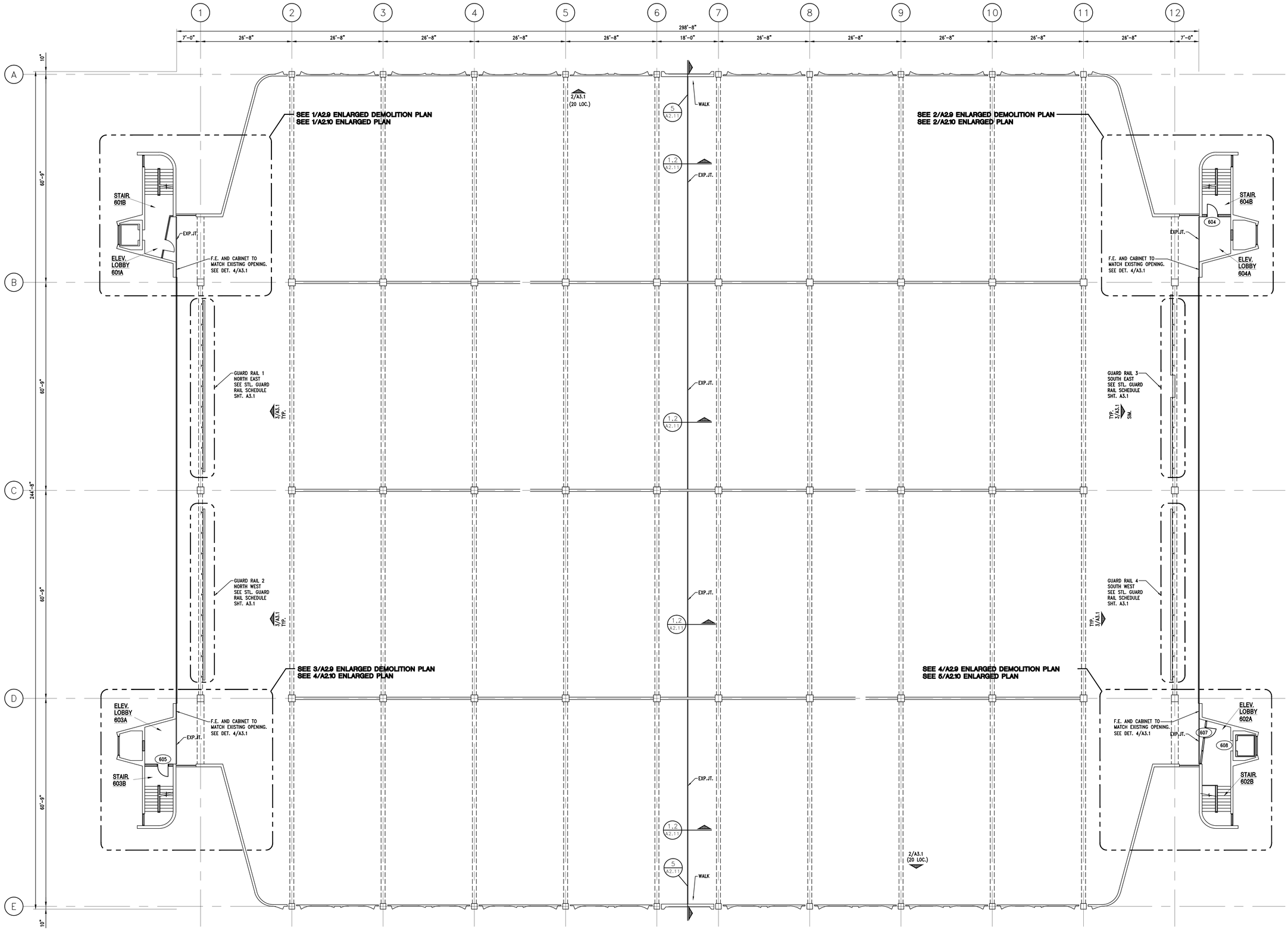
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FIFTH LEVEL FLOOR PLAN

DRAWING NUMBER: A2.6

SHEET 1 OF 1



1 / A2.7 6TH LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

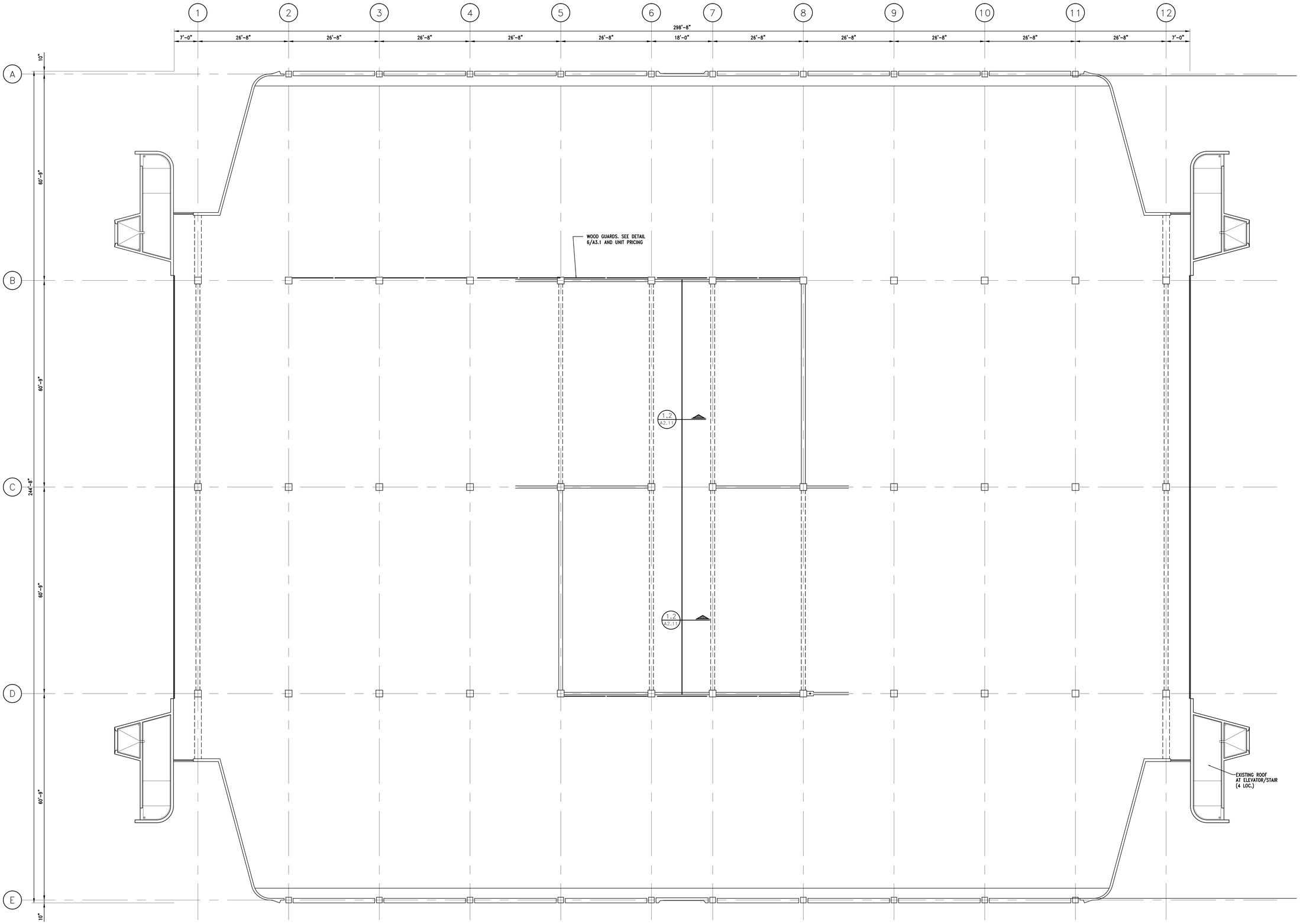
WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING
RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SIXTH LEVEL FLOOR PLAN

DRAWING NUMBER: A2.7
SHEET 1 OF 1



1 A2.8 ROOF LEVEL
3/32" = 1'-0"

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STATUS/REVISIONS

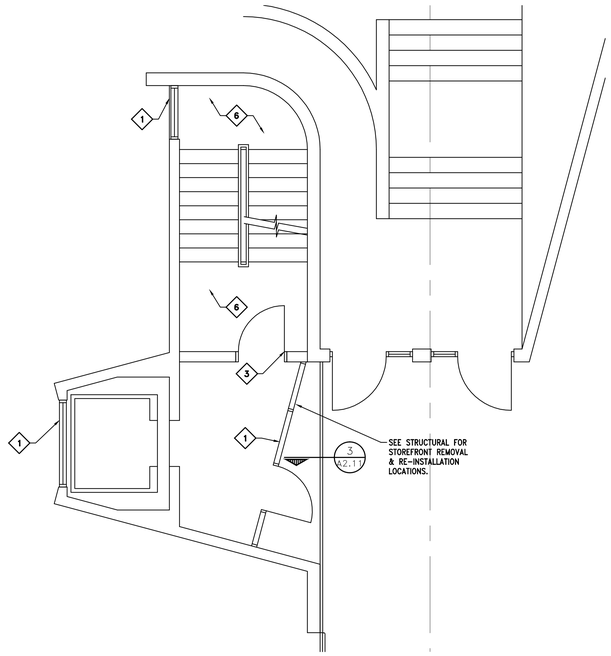
WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING RAMP No.2 RENOVATIONS

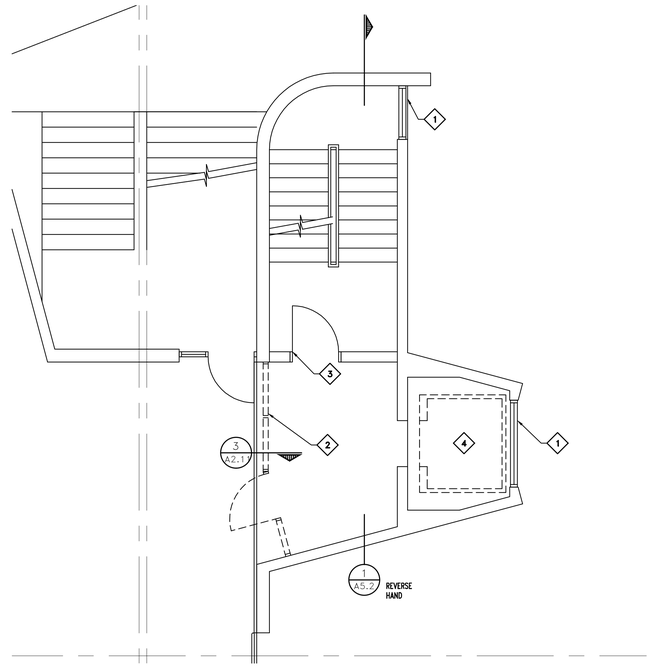
DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ROOF LEVEL FLOOR PLAN

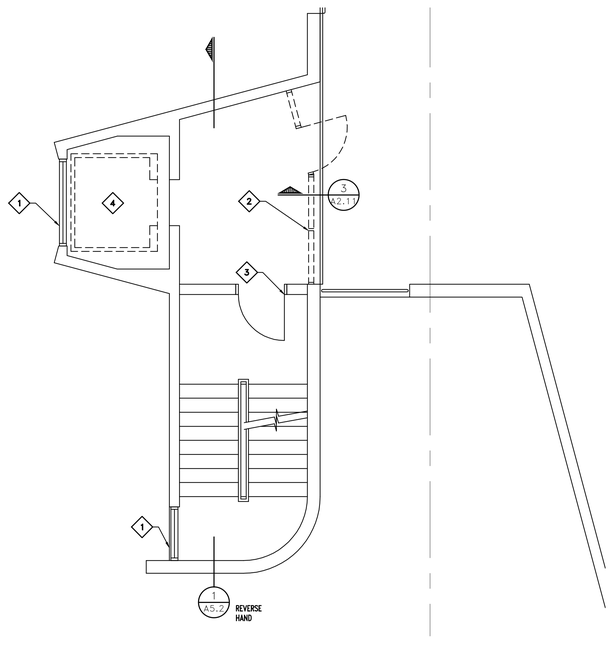
DRAWING NUMBER: A2.8
SHEET 1 OF 1



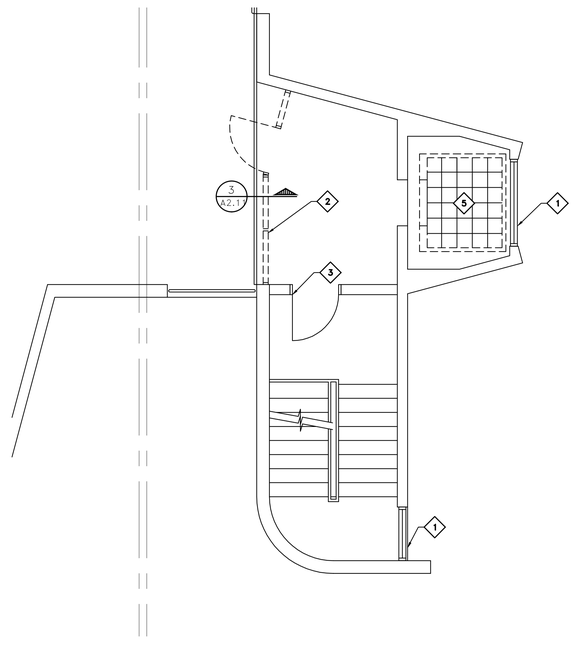
1 A2.9 ENLARGED DEMOLITION PLAN (NORTH EAST)
1/4" = 1'-0"



2 A2.9 ENLARGED DEMOLITION PLAN (SOUTH EAST)
1/4" = 1'-0"



3 A2.9 ENLARGED DEMOLITION PLAN (NORTH WEST)
1/4" = 1'-0"



4 A2.9 ENLARGED DEMOLITION PLAN (SOUTH WEST)
1/4" = 1'-0"

GENERAL DEMOLITION NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS.
2. OBJECTS INDICATED ON THIS DRAWING WITH DASHED LINES OR WITHIN A DASHED LINE SHALL BE REMOVED AND DISPOSED OF.
3. DEMOLISHED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR FOR PROPER DISPOSAL OFF SITE.
4. SEE ELECTRICAL DRAWINGS TO COORDINATE EXISTING ELECTRICAL POWER DEMOLITION REQUIREMENTS.
5. PATCH, PRIME AND PAINT ALL EXISTING WALL AND FLOOR SURFACES AFFECTED BY DEMOLITION WORK.
6. SEE MECHANICAL DRAWINGS TO COORDINATE EXISTING MECHANICAL AND PLUMBING DEMOLITION REQUIREMENTS.
7. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED.
8. MAINTAIN CONSTRUCTION IN A WEATHER TIGHT CONDITION.
9. MAINTAIN EXIT ACCESS AND EXITS.
10. OWNER INTENDS TO OCCUPY EXIST. FACILITY FOR MAXIMUM DURATION OF RENOVATION PRACTICABLE. COORDIANTE ALL TEMPORARY DUST AND BARRIER WORK AS REQUIRED.

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	STORE FRONT FRAMING FRAMING TO REMAIN.
2	REMOVE AND DISPOSE OF EXISTING ALUMINUM STOREFRONT SYSTEM.
3	EXISTING DOOR AND FRAME. SEE DOOR SCHEDULE.
4	REMOVE AND DISPOSE OF EXISTING ELEVATOR CAB, HOISTWAY CABLE, DOOR FRAME & ALL MACHINERY ASSOCIATED WITH ELEVATOR OPERATION.
5	REMOVAL OF EXISTING ELEVATOR AND ASSOCIATED EQUIPMENT NOT IN CONTRACT
6	EXISTING CONCRETE STAIR. SEE STRUCTURAL.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

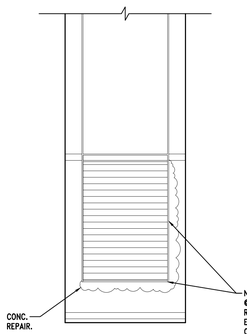
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

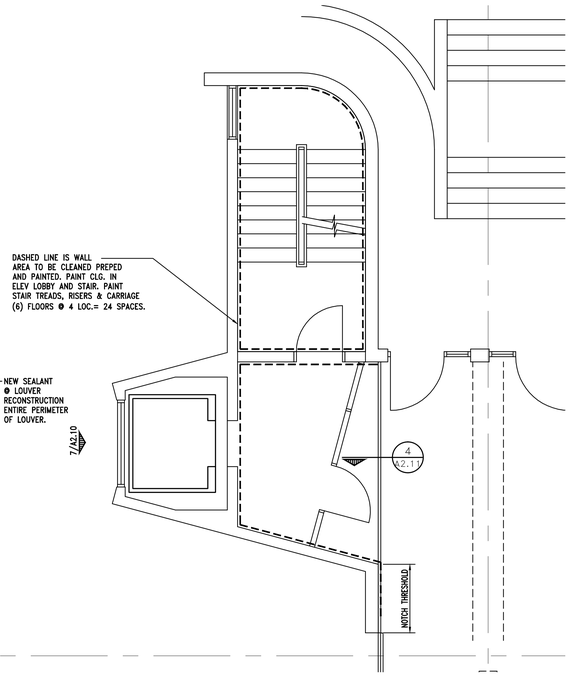
SHEET TITLE: ENLARGED DEMOLITION PLANS

DRAWING NUMBER: A2.9

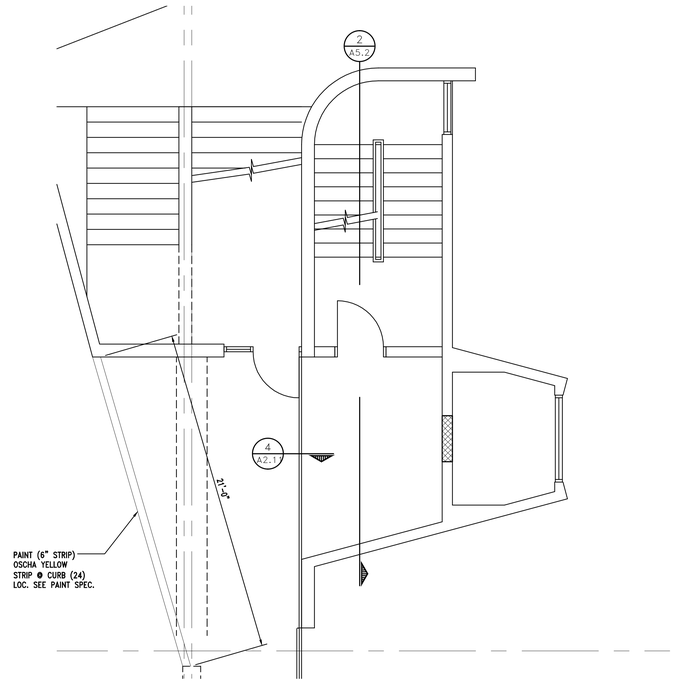
SHEET 1 OF 1



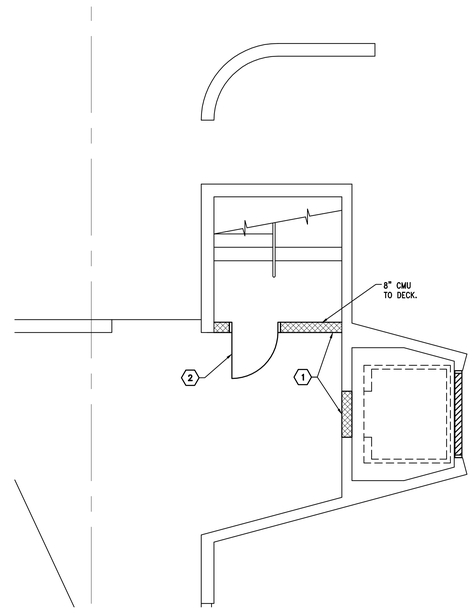
7 A2.10 ELEVATION 1/4" = 1'-0"



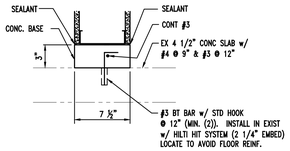
N 1 A2.10 ENLARGED PLAN (NORTH EAST) 1/4" = 1'-0"



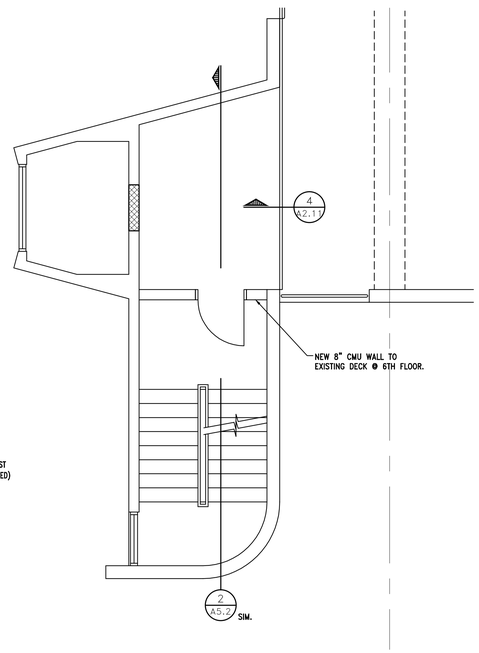
N 2 A2.10 ENLARGED PLAN (SOUTH EAST) 1/4" = 1'-0"



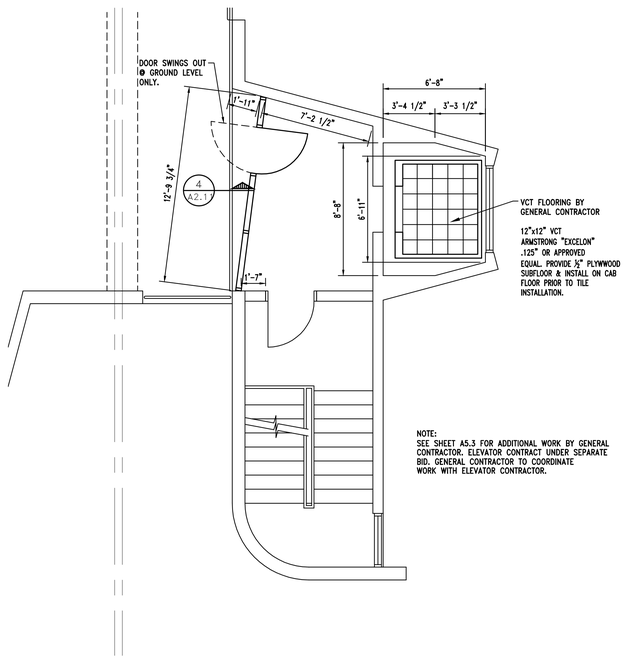
N 3 A2.10 ENLARGED PLAN (GROUND & 6TH LEVEL) 1/4" = 1'-0"



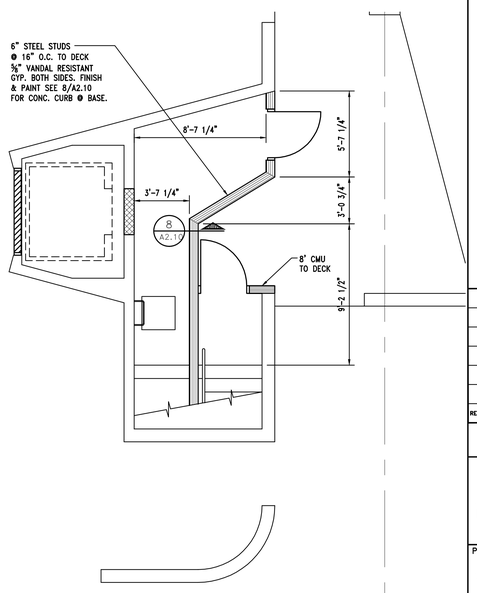
8 A2.10 DETAIL 1-1/2" = 1'-0"



N 4 A2.10 ENLARGED PLAN (NORTH WEST) 1/4" = 1'-0"



N 5 A2.10 ENLARGED PLAN (SOUTH WEST) 1/4" = 1'-0"



N 6 A2.10 ENLARGED PLAN (GROUND LEVEL) 1/4" = 1'-0"

KEYED FLOOR PLAN NOTES:

TAG	DESCRIPTION
1	NEW CMU WALL AND CMU INFILL WITH HORIZONTAL RAKED JOINTS TO MATCH EXISTING.
2	DOOR AND FRAME. SEE DOOR SCHEDULE.
3	ELECTRICAL. SEE ELEC. DWGS.
4	REMOVE EXISTING ELEVATOR EQUIP. CAB, CALL BUTTONS AND RELATED DEVICES.
5	PATCH VOID AT CALL BUTTON.
6	SEE PAINT SPECIFICATIONS FOR FINISH REQUIREMENTS.

REV. #	DATE	DESCRIPTION	BY
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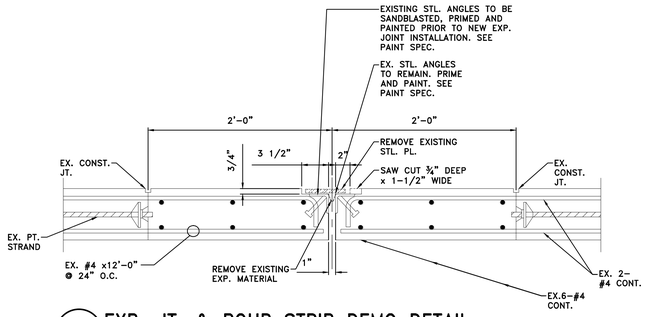
	07-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

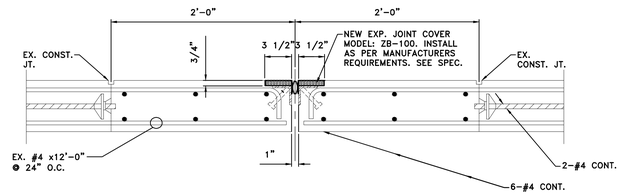
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON	SHEET TITLE: ENLARGED PLANS
DESIGNED BY: K.NEIGH	
CHECKED BY: I.DZIRNIS	
APPROVED BY: T.MINER	DRAWING NUMBER: A2.10
PROJECT NUMBER: 12-0462-0189	SHEET 1 OF 1



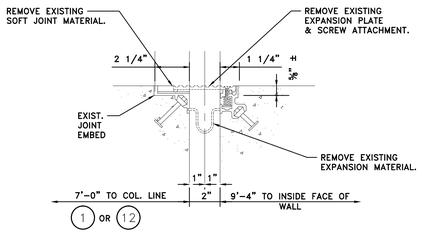
1 A2.11 EXP. JT. & POUR STRIP DEMO DETAIL

1-1/2" = 1'-0"



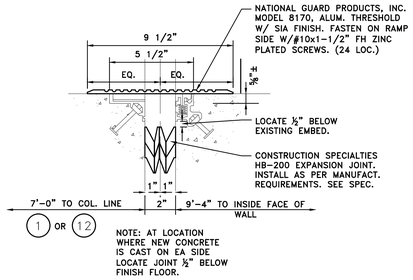
2 A2.11 EXP. JT. AT RAMP DETAIL

1-1/2" = 1'-0"



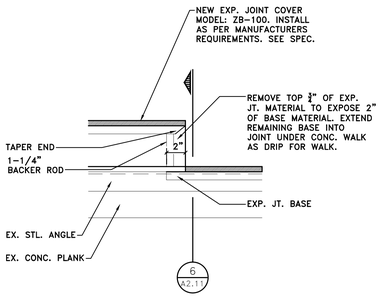
3 A2.11 STAIR & ELEV. EXP. JT. DEMO DETAIL

3" = 1'-0"



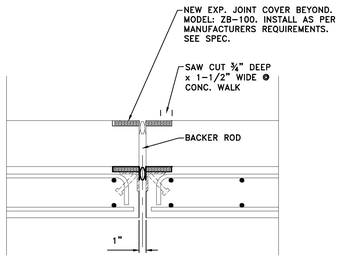
4 A2.11 STAIR WAY EXP. JT. DETAIL

3" = 1'-0"



5 A2.11 EXP. JT. AT CURB

1-1/2" = 1'-0"



6 A2.11 EXP. JT. AT CURB

1-1/2" = 1'-0"

GENERAL DEMOLITION NOTES:

1. SEE SPECIFICATIONS FOR ADDITIONAL PROJECT INFORMATION AND REQUIREMENTS.
2. OBJECTS INDICATED ON THIS DRAWING WITH DASHED LINES OR WITHIN A DASHED LINE SHALL BE REMOVED, RELOCATED OR TURNED OVER TO THE OWNER AS NOTED.
3. SEE ELECTRICAL DRAWINGS TO COORDINATE EXISTING ELECTRICAL POWER DEMOLITION REQUIREMENTS.
4. PATCH EXISTING WALL AND FLOOR SURFACES TO AFFECTED BY DEMOLITION WORK.
5. SEE MECHANICAL DRAWINGS TO COORDINATE EXISTING MECHANICAL AND PLUMBING DEMOLITION REQUIREMENTS.
6. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED.
7. MAINTAIN BUILDING IN A WEATHER TIGHT CONDITION.
8. MAINTAIN EXIT ACCESS AND EXITS.
9. OWNER INTENDS TO OCCUPY EXIST. FACILITY FOR MAXIMUM DURATION OF RENOVATION PRACTICABLE. COORDIANTE ALL TEMPORARY DUST AND BARRIER WORK AS REQUIRED.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: DETAILS

DRAWING NUMBER: A2.11

SHEET 1 OF 1

DOOR SCHEDULE – BASEMENT TO 6TH LEVEL ROOF

DOOR NO.	DOOR SIZE	TYPE	MATL.	FINISH	FRAME TYPE	MATL.	FINISH	DETAILS HEAD	JAMB	SILL	RATING	HDWR SET	REMARKS
001	4'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	–	–	–	–	3	–
002.1	2'–6"Wx6'–8"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	3	1, 3
002.2	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	2	1, 2, 3, 4
004	2'–6"Wx6'–8"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	3	
100	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	4	
101	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	4	
102	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	5	
103	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–	–	BY ELEVATOR SUPPLIER
104	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	2	
201	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	II	H.M.	P	–	–	–	–	1	6
204	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
205	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	II	H.M.	P	–	–	–	–	1	6
206	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
207	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	5	–
208	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–	–	BY ELEVATOR SUPPLIER
301	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	II	H.M.	P	–	–	–	–	1	6
304	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	II	H.M.	P	–	–	–	–	1	6
305	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	II	H.M.	P	–	–	–	–	1	6
306	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P			–	–	1	–
307	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	1	–
308	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–		BY ELEVATOR SUPPLIER
												1	
401	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	ETR	ETR	P	–	–	–	–	1	–
404	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
405	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
406	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
407	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	5	–
408	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–	–	BY ELEVATOR SUPPLIER
501	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	II	H.M.	P	–	–	–	–	1	4
504	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	II	H.M.	P	–	–	–	–	1	4
505	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	E.T.R.	E.T.R.	P	–	–	–	–	1	–
506	3'–0"Wx7'–0"Hx1–3/4"D	E.T.R.	E.T.R.	P	II	H.M.	P	–	–	–	–	1	4
507	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	5	–
508	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–	–	BY ELEVATOR SUPPLIER
604	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	4	1, 2, 3, 4
605	3'–0"Wx7'–0"Hx1–3/4"D	F	H.M.	P	I	H.M.	P	–	–	–	–	1	
607	3'–0"Wx7'–0"Hx1–3/4"D	FG2	ALUM	AA	III	ALUM	AA	–	–	–	–	5	
608	3'–0"Wx7'–0"Hx1–3/4"D	–	–	–	–	–	–	7/A5.3	6/A5.3	5/A5.3	–	–	BY ELEVATOR SUPPLIER

ABBREVIATIONS:

AA – ANODIZED ALUM. (CLEAR)
ETR – EXISTING TO REMAIN
F.V. – FIELD VERIFY
HM – HOLLOW METAL
P – PAINT
S&V – STAIN & VARNISH
WD – WOOD
PF – PRE–FINISHED
STL – STEEL
GYP – GYPSUM BOARD

DOOR SCHEDULE REMARKS:

1. CONTRACTOR TO FURNISH AND INSTALL EXTERIOR SEALANT TO MATCH FRAME COLOR.
2. CMU OPENING REQUIRES STEEL LINTEL. (SEE STRUCTURAL) COORDINATE SIZE AND LOCATION OF OPENING W/ PLANS.
3. HOLLOW METAL DOOR. SEE SPECIFICATION.
4. HOLLOW METAL STEEL FRAMES SHALL BE 5–5/8". SEE SPECIFICATIONS. GROUT SOLID
5. CUT 6" FROM EXISTING JAMB (BOTH JAMBS). REINSTALL MATCHING JAMB PORTION AND TACK WELD IN PLACE. FIBERGLASS FILL, SAND AND PAINT. GROUT SOLID.

HARDWARE SETS

1. SEE HARDWARE SET 1 IN SPECIFICATIONS.
2. MATCH EXISTING LOCKSET AND KEYING OF DOOR 002.1. CLOSER TO BE 4111 CUSH SRI OR APPROVED EQUAL.
3. REUSE EXISTING HARDWARE.
4. SEE HARDWARE SET 2 IN SPECIFICATION. CLOSER TO BE 4111 CUSH SRI OR APPROVED EQUAL.
5. PUSH AND PULL TO BE BY ALUM. DOOR MANUFACTURER. CLOSER TO BE 4111 CUSH SRI OR APPROVED EQUAL. PROVIDE LOCK CYLINDER.

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FINISH FLOOR	BASE	WALL NORTH	EAST	SOUTH	WEST	CEILING TYPE	HEIGHT	REMARKS
001	MECHANICAL	E.T.R.	–	–	–	–	–	E.T.R.	10'–6"	–
002	MECHANICAL	E.T.R.	–	–	–	–	–	E.T.R.	10'–6"	–
003	MECHANICAL	E.T.R.	–	–	–	–	–	E.T.R.	10'–6"	–
004	MECHANICAL	E.T.R.	–	–	–	–	–	E.T.R.	10'–6"	–
101	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–3/4"	1
102	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–3/4"	1
103A	STORAGE	–	–	–	–	–	–	E.T.R.	10' 1–3/4"	–
103B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
104A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–3/4"	1
104B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
201A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
201B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
202A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
202B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
203A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
203B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
204A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
204B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
301A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
301B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
302A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
302B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
303A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
303B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
304A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
304B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
401A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
401B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
402A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
402B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
403A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
403B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
404A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
404B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
501A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
501B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
502A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
502B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
503A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
503B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
504A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	10' 1–1/2"	1
504B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
601A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	8'–8"	1
601B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
602A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	8'–8"	1
602B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
603A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	8'–8"	1
603B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1
604A	ELEVATOR LOBBY	E.T.R./P	–	P	P	P	P	E.T.R./P	8'–8"	1
604B	STAIRWAY	E.T.R./P	–	P	P	P	P	E.T.R./P	VARIES	1

ROOM FINISH SCHEDULE REMARKS:

1. SEE 1/A2.0 FOR DEFINED PAINTING LIMITS IN STAIRWAY AND LOBBY

STEEL GUARD RAIL SCHEDULE

ROOM NO.	GUARD RAIL	COL.1	COL.2	COL.3	COL.4	COL.5	COL.6	COL.7	COL.8	COL.9	REMARKS
2ND FL	GUARD RAIL 1 NORTH EAST	RP	RP	RP	RP	RP	RP	RP	RP	RP	1.
	GUARD RAIL 2 NORTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 3 SOUTH EAST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 4 SOUTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
3RD FL	GUARD RAIL 1 NORTH EAST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 2 NORTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 3 SOUTH EAST	–	–	–	–	–	–	–	–	–	–
	GUARD RAIL 4 SOUTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
4TH FL	GUARD RAIL 1 NORTH EAST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 2 NORTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 3 SOUTH EAST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 4 SOUTH WEST	–	–	–	–	–	–	–	–	–	–
5TH FL	GUARD RAIL 1 NORTH EAST	–	–	–	–	–	–	–	–	–	–
	GUARD RAIL 2 NORTH WEST	RP	RP	RP	RP	RP	RP	RP	RP	RP	–
	GUARD RAIL 3 SOUTH EAST	–	–	–	–	–	–	–	–	–	–
	GUARD RAIL 4 SOUTH WEST	–	–	–	–	–	–	–	–	–	–
6TH FL	GUARD RAIL 1 NORTH EAST	–	–	–	–	–	–	–	–	–	1
	GUARD RAIL 2 NORTH WEST	–	–	–	–	–	–	–	–	–	–
	GUARD RAIL 3 SOUTH EAST	–	–	–	–	–	–	–	–	–	–
	GUARD RAIL 4 SOUTH WEST	–	–	–	–	–	–	–	–	–	–

NOTE:

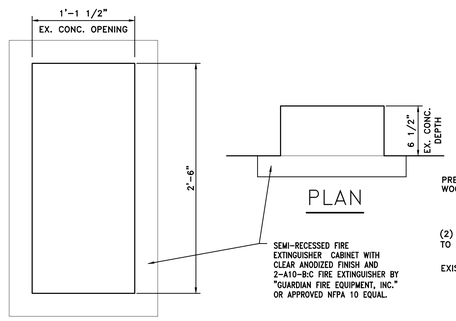
REFER TO DETAILS 1/A3.1 & 3/A3.1 FOR TYPICAL STEEL GUARD AND COLUMN DETAIL.

ABBREVIATIONS:

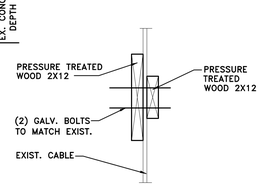
RP – SHOTBLAST OR WIRE BRUSH LOOSE RUST FROM FROM 6X8.5 COL., COL., BOLTS AND STEEL BASE PLATE. TREAT WITH RUST PREVENTATIVE PRIMER AND PAINT. SEE DETAIL 3/A3.1 AND PAINT SPECIFICATIONS

REMARKS:

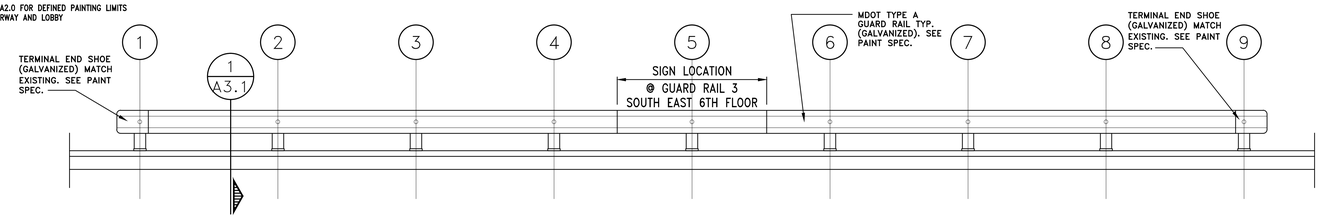
1. – REPLACE ENTIRE STEEL GUARD RAIL AND BOLTS. PRIME AND PAINT. SEE DETAIL 3/A3.1



4 A3.1 F.E. CAVITY
1–1/2" = 1'–0"

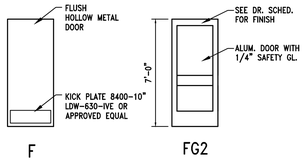


6 A3.1 WD. GUARD RAIL DETAIL
1–1/2" = 1'–0"

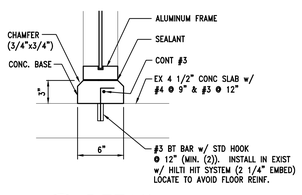


3 A3.1 (TYP.) STL.GUARD RAIL ELEVATION
3/8" = 1'–0"
ALL ELV. LOOKING OUT

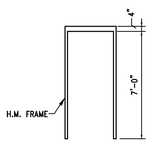
NOTE: COLUMN NUMBERING IS FOR REFERENCE ONLY. NUMBERS ARE NOT ASSOCIATED WITH PLAN COL. NUMBERS.



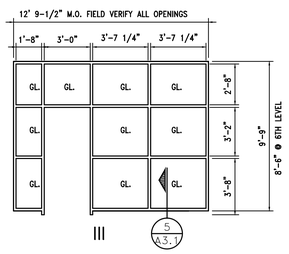
DOOR TYPES:
1/4"=1'–0"



5 A3.1 DETAIL
1/4" = 1'–0"

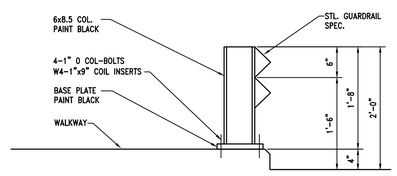


HM DOOR FRAME TYPES:
1/4"=1'–0"

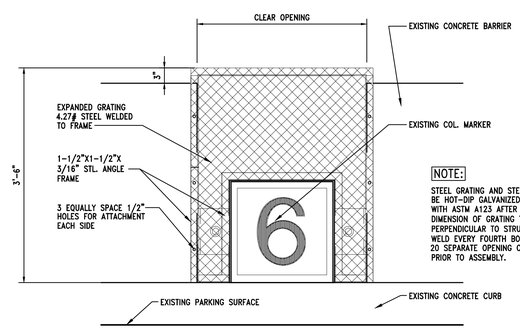


ALUMINUM STOREFRONT FRAME TYPES:

NOTE: ALUMINUM FRAMING – BASIS OF DESIGN, TUBELITE 4500 SERIES FRAMING. 1–3/4" X 4–1/2" FRAME WITH SINGLE GLAZING. DOOR TO BE MEDIUM STYLE FRAME WITH PANIC HARDWARE AND ALUM. SILL BY DOOR MANUFACTURER. PROVIDE ANGLED JAMB CLOSURES AT WALL JUNCTIONS TO MATCH DOOR SYSTEM.



1 A3.1 STL. GUARDRAIL COL. DET.
1" = 1'–0"



NOTE:
STEEL GRATING AND STEEL ANGLES TO BE HOT–DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER ASSEMBLY. LONG DIMENSION OF GRATING TO BE PLACED PERPENDICULAR TO STRUCTURAL SUPPORTS. WELD EVERY FOURTH BOND. FIELD VERIFY 20 SEPARATE OPENING CONFIGURATIONS PRIOR TO ASSEMBLY.

2 A3.1 DETAIL @ LEVEL MARKERS
1" = 1'–0"

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STATUS/REVISIONS

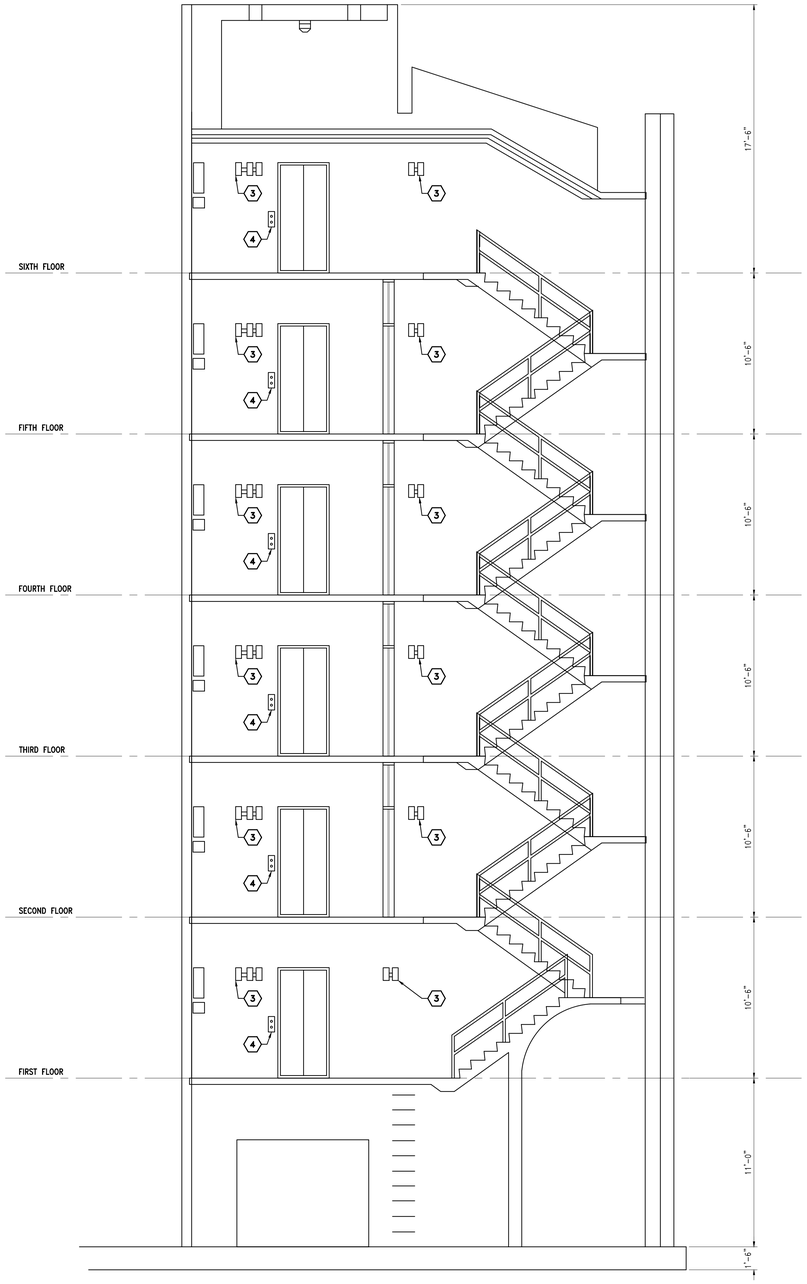
WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING
PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12–0462–0189

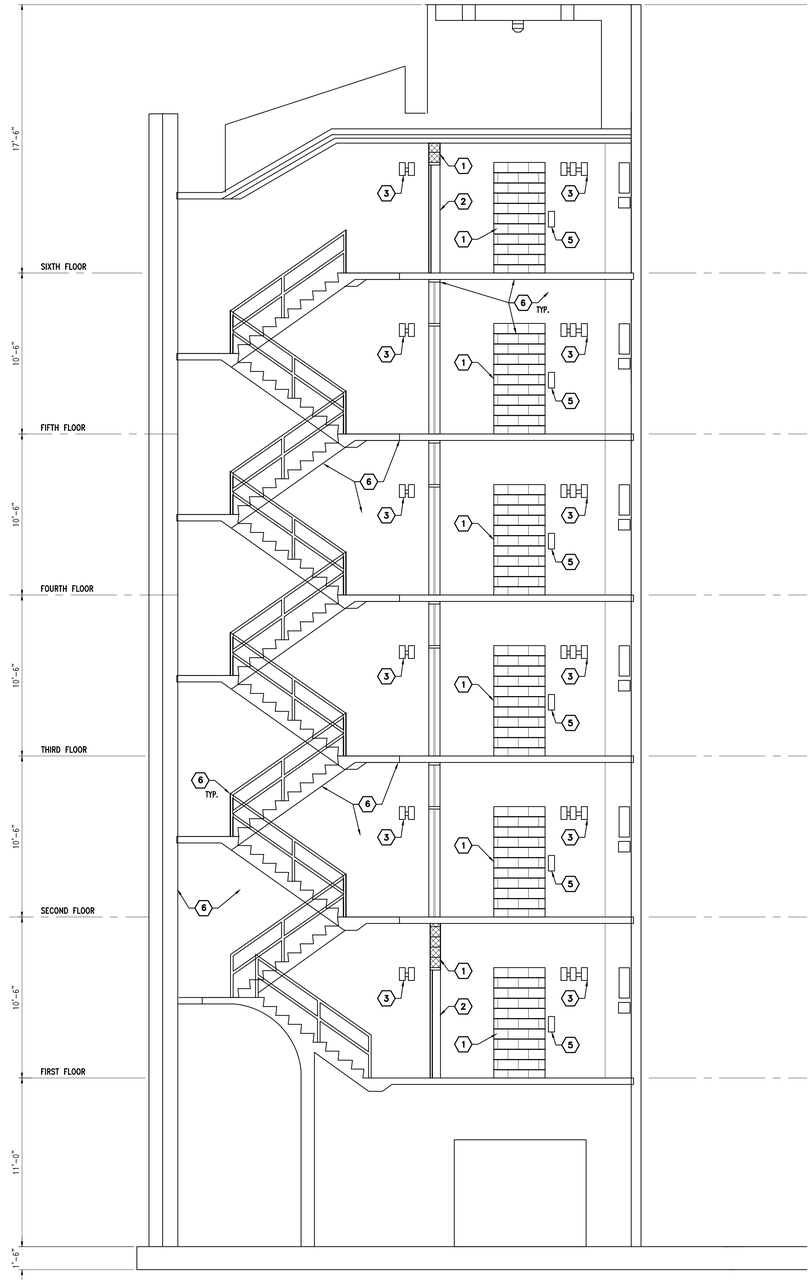
SHEET TITLE: DOOR SCHEDULE ROOM FINISH SCHEDULE

DRAWING NUMBER: A3.1
SHEET 1 OF 1



1 A5.2 **DEMOLITION ELEVATION**
1/4" = 1'-0" NORTH/EAST & SOUTH/WEST

NOTE: SEE 2/A5.3 FOR REMOVAL OF CONC. JAMB AT ELEVATOR DOOR OPENINGS AT SOUTH WEST ELEVATOR CONSTRUCTION.



2 A5.2 **ELEVATION**
1/4" = 1'-0"
NORTH/WEST & SOUTH/EAST

KEYED FLOOR PLAN NOTES:

TAG	DESCRIPTION
1	NEW CMU WALL AND CMU INFILL WITH HORIZONTAL RAKED JOINTS TO MATCH EXISTING.
2	DOOR AND FRAME. SEE DOOR SCHEDULE.
3	ELECTRICAL. SEE ELEC. DWGS.
4	REMOVE EXISTING ELEVATOR EQUIP. CAB, CALL BUTTONS AND RELATED DEVICES.
5	PATCH VOID AT CALL BUTTON.
6	SEE PAINT SPECIFICATIONS FOR FINISH REQUIREMENTS.

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William A. Kibbe & Associates, Inc.
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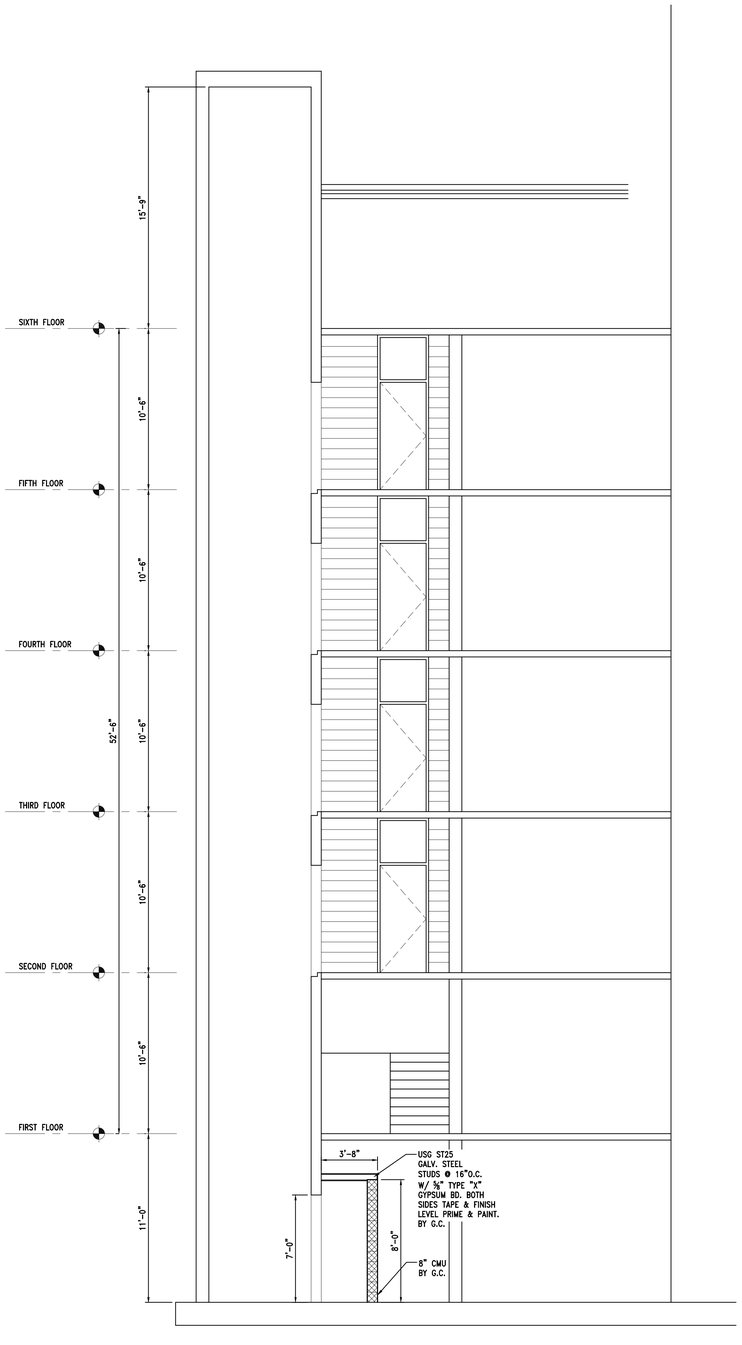
DOW EVENT CENTER PARKING RAMP RENOVATIONS

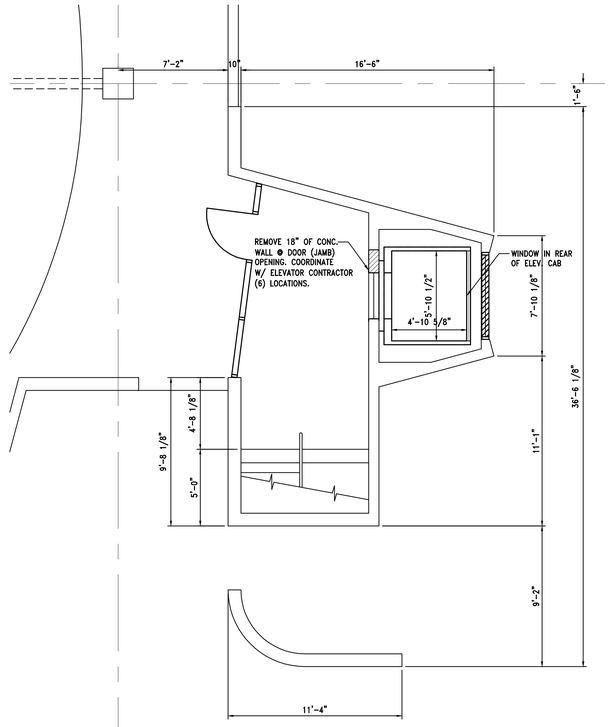
DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: STAIR AND ELEVATOR SECTIONS

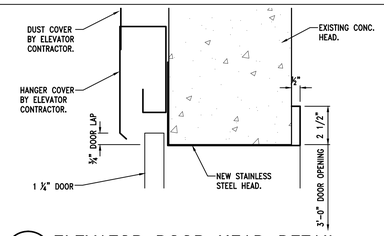
DRAWING NUMBER: A5.2
SHEET 1 OF 1



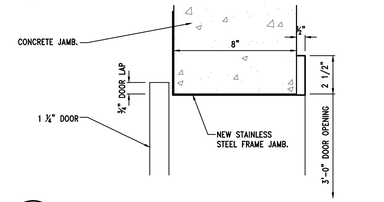
1 A5.3 SECTION ELEVATION
1/4" = 1'-0"



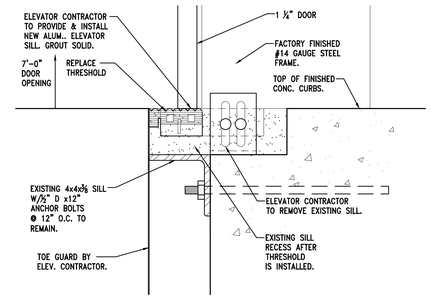
N 2 A5.3 TYPICAL SOUTH WEST PLAN
1/4" = 1'-0"



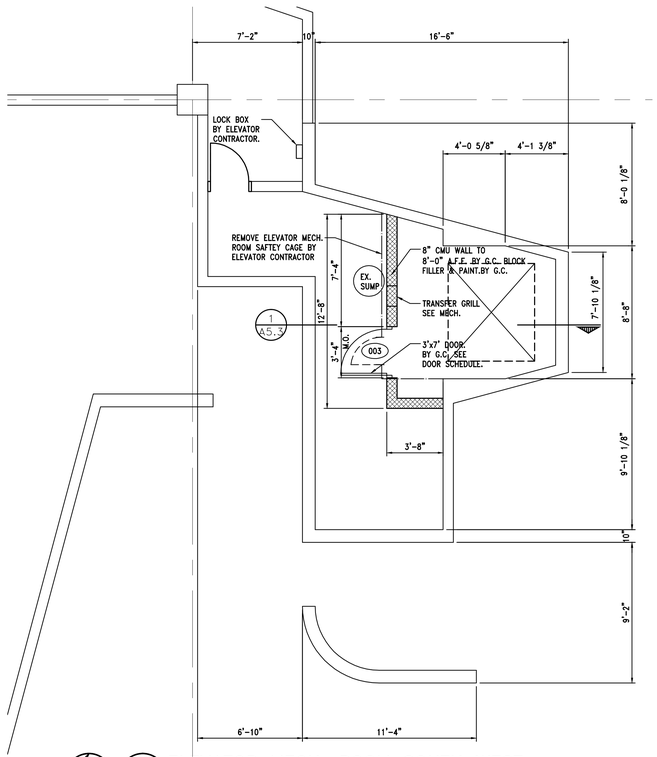
7 A5.3 ELEVATOR DOOR HEAD DETAIL
3" = 1'-0"



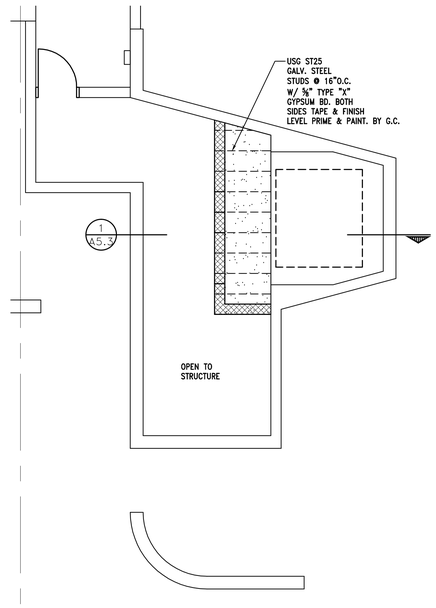
6 A5.3 ELEVATOR DOOR JAMB DETAIL
3" = 1'-0"



5 A5.3 ELEVATOR DOOR SILL DETAIL
3" = 1'-0"



N 3 A5.3 ELEVATOR MECH. ROOM SOUTH WEST
1/4" = 1'-0"



N 4 A5.3 ELEVATOR MECH. ROOM CEILING PLAN
1/4" = 1'-0"

GENERAL NOTES:

SOUTH WEST ELEVATOR DEMO IS BY ELEVATOR INSTALLER IN SEPERATE BID PACKAGE. GC TO COORDINATE NEW ELEVATOR INSTALLATION AND PRIME CONTRACTOR OVER ELEVATOR CONTRACTOR.

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

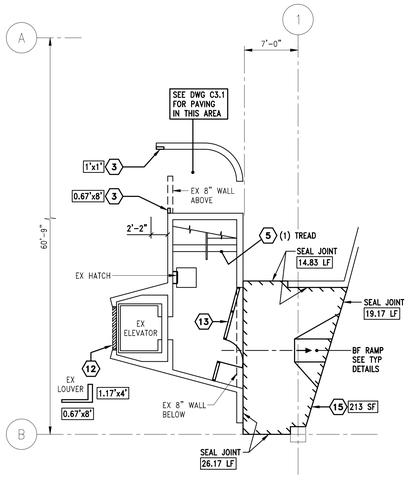
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J.GARRISON
DESIGNED BY: K.NEIGH
CHECKED BY: I.DZIRNIS
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

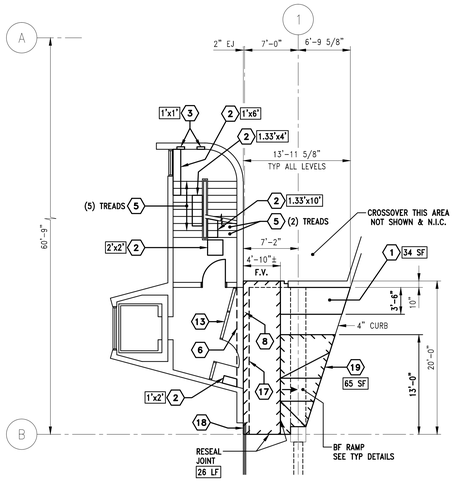
SHEET TITLE: ELEVATOR PLANS SECTIONS AND DETAILS

DRAWING NUMBER: A5.3

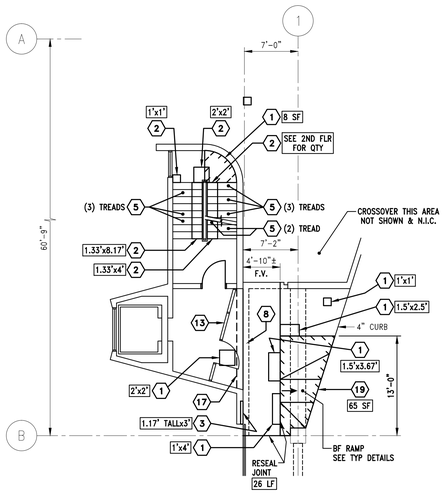
SHEET 1 OF 1



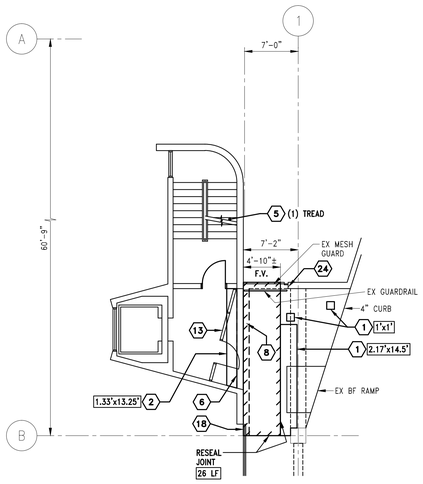
GROUND FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



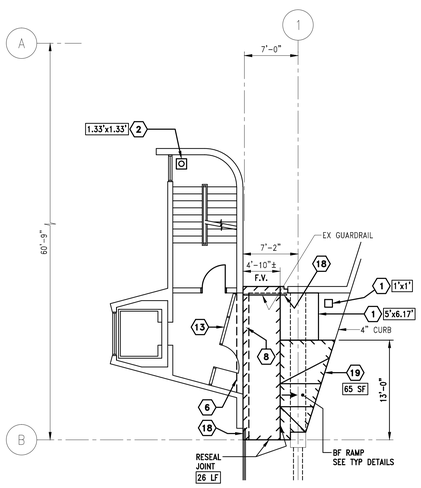
SECOND FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



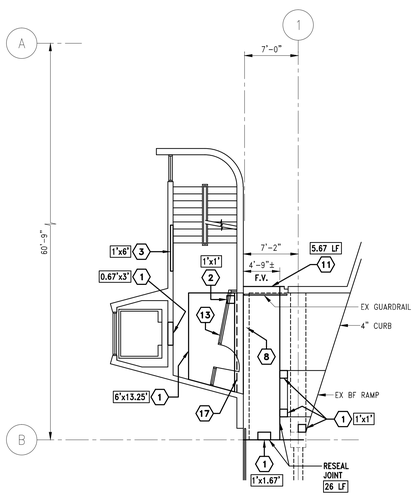
THIRD FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



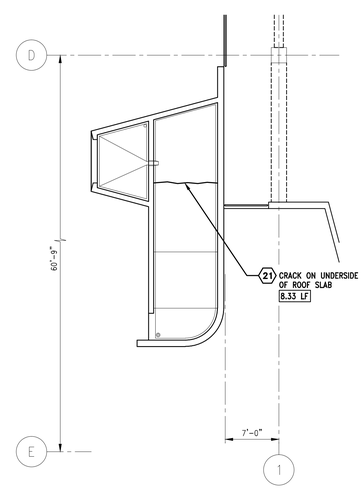
FOURTH FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



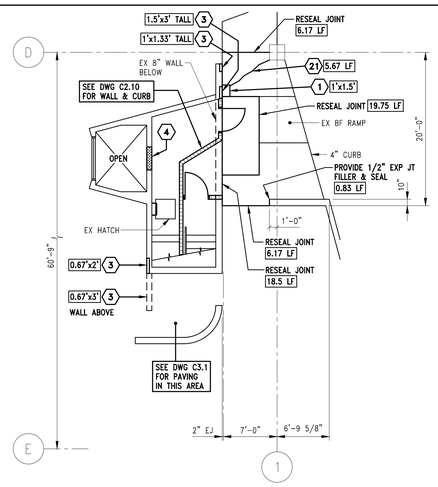
FIFTH FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



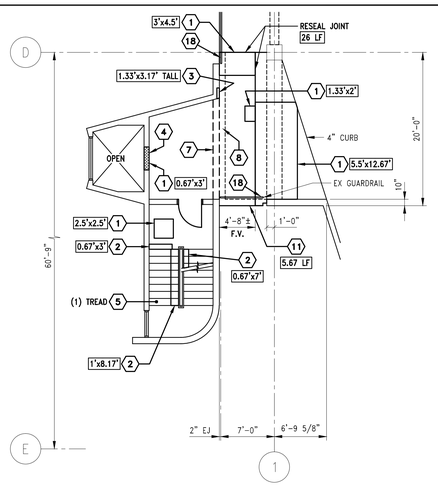
SIXTH FLOOR PLAN
1/8" = 1'-0" (NORTHEAST CORNER)



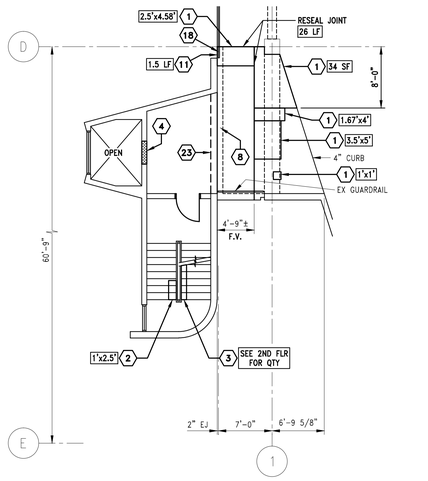
ROOF PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



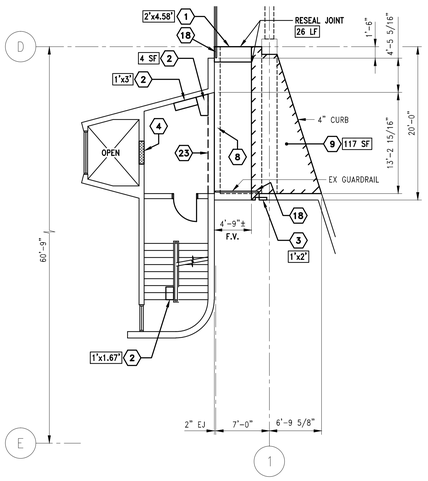
GROUND FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



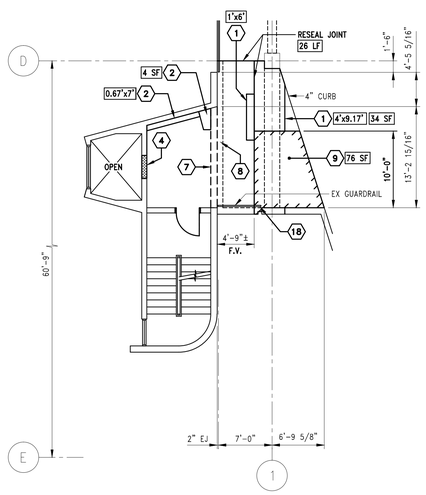
SECOND FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



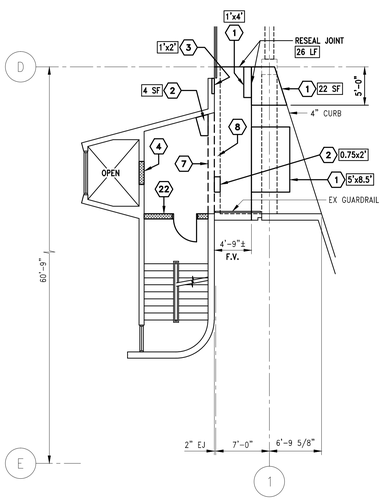
THIRD FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



FOURTH FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



FIFTH FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)



SIXTH FLOOR PLAN
1/8" = 1'-0" (NORTHWEST CORNER)

KEYED CONSTRUCTION NOTES:

TAG	DESCRIPTION
1	REPAIR CONCRETE FLOOR SURFACE PER DETAIL 1/S5.1.
2	REPAIR OVERHEAD CONCRETE ON THE UNDERSIDE OF THE STAIR LANDING OR STAIR PER DETAIL 2/S5.1.
3	REPAIR WALL CONCRETE PER DETAIL 3/S5.1.
4	AT EXISTING ELEVATOR OPENING (3'Wx7'-2 1/2" TALL) PROVIDE AND INSTALL NEW 8" CMU WITH HORIZONTAL JOINT REINFORCING @ 16". ATTACH TO EX CONCRETE WALL, EACH SIDE, WITH A DUR-O-WAL DA 2200 JOINT STABILIZING ANCHOR @ 16". GROUT CORES SOLID FULL HEIGHT AT ANCHORS.
5	REMOVE AND REPLACE EXISTING STAIR TREAD/RISERS (3'-10" WIDE) PER DETAIL 5/S5.1.
6	REMOVE AND REPLACE APPROXIMATELY 14'-3" LF OF CONCRETE BEAM AND 24.67 LF (INCLUDES 4'-10" ON WEST OR EAST EDGE) OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 6/S5.1. REPLACE CURB AS INDICATED (97 SF).
7	REPAIR APPROXIMATELY 13'-3" LF OF CONCRETE BEAM PER DETAIL 7/S5.1.
8	PROVIDE AND INSTALL EXPANSION JOINT SEAL (18.5 LF) AND COVER (14.25 LF) PER ARCHITECTURAL DRAWING A2.11.
9	REMOVE AND REPLACE EXISTING CONCRETE CURB PER DETAIL 9/S5.1.
10	REMOVE AND REPLACE CONCRETE BEAM EDGE PER DETAIL 10/S5.1.
11	REPAIR CONCRETE SLAB/BEAM EDGE PER DETAIL 12/S5.1.
12	REPAIR CONCRETE WALL AROUND ELEVATOR LOUVER PER DETAIL 3/S5.1. SEAL AROUND LOUVER PER ARCHITECTURAL.
13	REMOVE EXISTING STOREFRONT FRAMING AS REQUIRED FOR CONCRETE REPAIRS. REPLACE AND SEAL PER ARCHITECTURAL.
14	NOT USED.
15	REMOVE AND REPLACE EXISTING SLAB ON GRADE PER TYPICAL DETAIL 11/S5.1
16	REPAIR APPROXIMATELY 13'-3" LF OF CONCRETE BEAM PER DETAIL 7/S5.1 AND REMOVE AND REPLACE 24.67 LF (INCLUDES 4'-10" ON EAST EDGE) OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 6/S5.1. REPLACE CURB AS INDICATED (97 SF).
17	REMOVE AND REPLACE APPROXIMATELY 14'-3" LF OF CONCRETE BEAM PER DETAIL 6/S5.1. REPAIR 20 LF OF CONCRETE ANCHORAGE ENCASMENT PER DETAIL 13/S5.1.
18	AFTER CURB REPAIR OR REPLACEMENT REANCHOR PEDESTRIAN GUARDRAIL POSTS WITH (4) 3/8"ø STAINLESS STEEL HILTI HIT EPOXY ANCHORS PER POST.
19	REPAIR APPROXIMATELY 13'-3" LF OF CONCRETE BEAM PER DETAIL 7/S5.1 AND REPAIR 20 LF OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 13/S5.1.
20	REPAIR 20 LF OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 13/S5.1.
21	ROUTE CRACK WITH ROUTER OR SIMILAR TOOL AND FILL WITH SEALANT.
22	PROVIDE AND INSTALL NEW 8" CMU WITH HORIZONTAL JOINT REINFORCING @ 16" & #4 @ 48" VERTICAL. PROVIDE A BOND BEAM WITH (2) #4 @ TOP & BASE OF WALL. ATTACH TO EXIST CONCRETE WALL EACH SIDE, WITH A DUR-O-WAL DA 2200 JOINT STABILIZING ANCHOR @ 16". GROUT CORES SOLID FULL HEIGHT AT ANCHORS. SEE TYPICAL DETAILS ON SHEET S5.2 FOR ADDITIONAL INFORMATION.
23	REMOVE AND REPLACE APPROXIMATELY 14'-3" LF OF CONCRETE BEAM SIMILAR TO DETAIL 6/S5.1.
24	REMOVE AND REPLACE EXISTING GUARDRAIL AND FLOOR TO FLOOR MESH GUARD. REFASTEN FULL HEIGHT GUARD TO MATCH EXISTING. SALVAGE PIPE GUARDRAIL SLEEVE AND REINSTALL.
XXX	INDICATES APPROXIMATE DIMENSIONS, LINEAL FOOTAGE, OR SQUARE FOOTAGE OF REPAIR.

REV. #	DATE	DESCRIPTION	BY
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	7-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

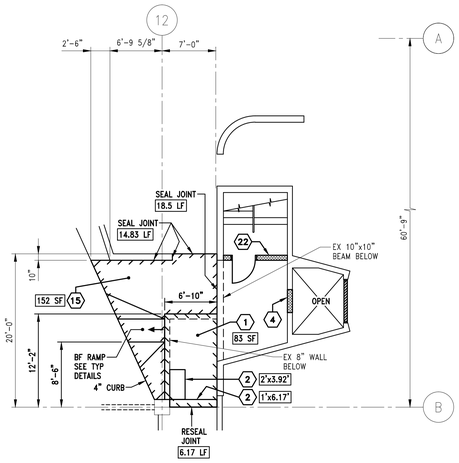
WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

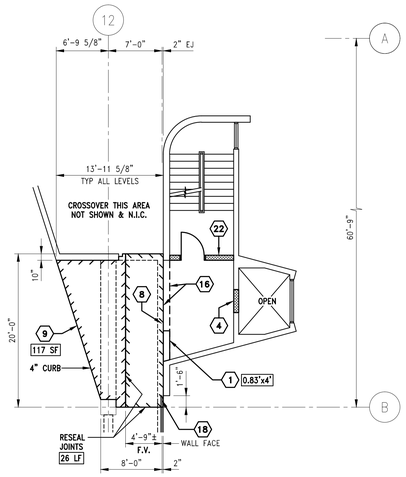
DRAWN BY: R. MARR
DESIGNED BY: G. BATOR
CHECKED BY: G. BATOR
APPROVED BY: G.BATOR
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: NORTHEAST AND NORTHWEST STAIR FRAMING PLANS

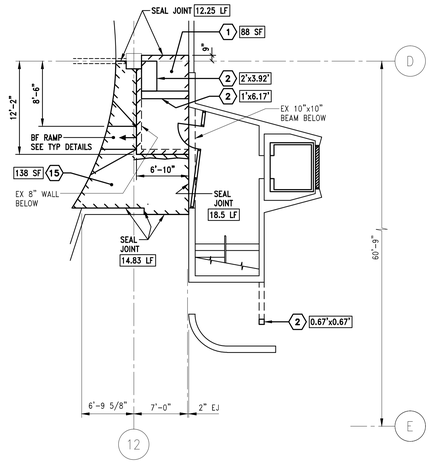
DRAWING NUMBER: S2.1
SHEET 1 OF 1



GROUND FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



SECOND FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



GROUND FLOOR PLAN
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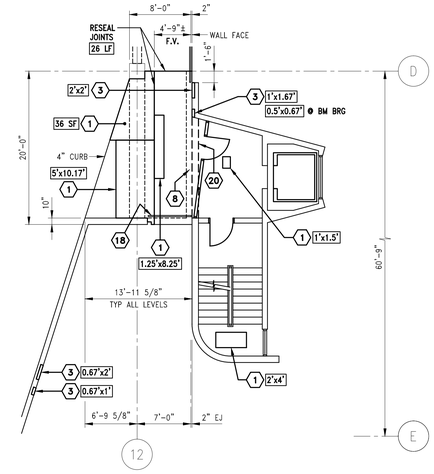
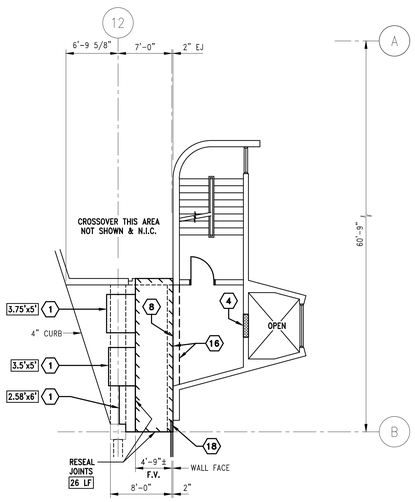
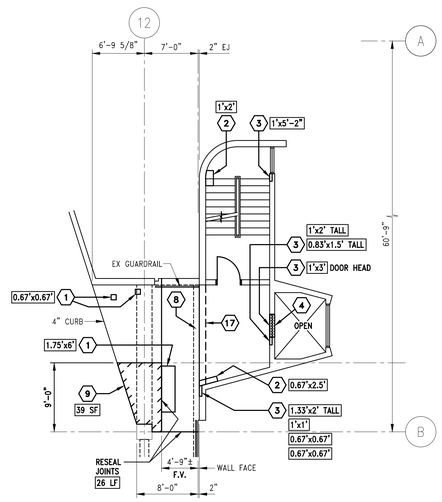


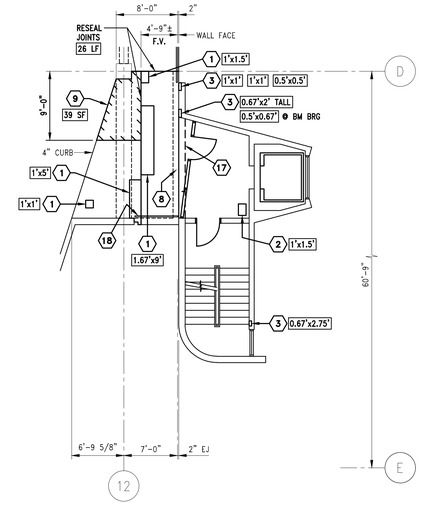
SECOND FLOOR PLAN
1/8" = 1'-0" (SOUTHWEST CORNER)



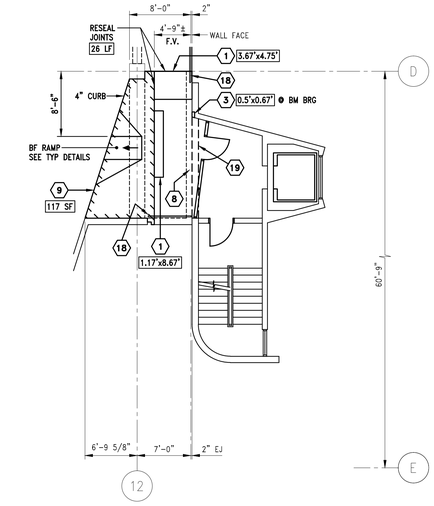
THIRD FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



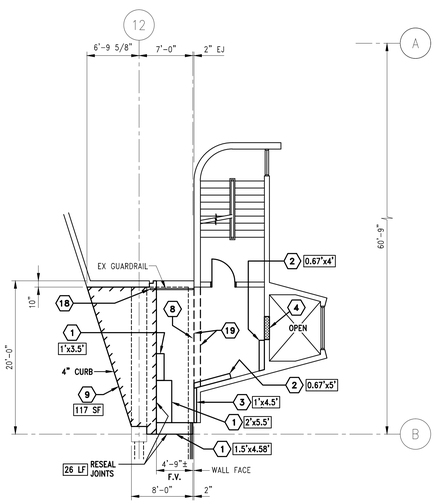
FOURTH FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



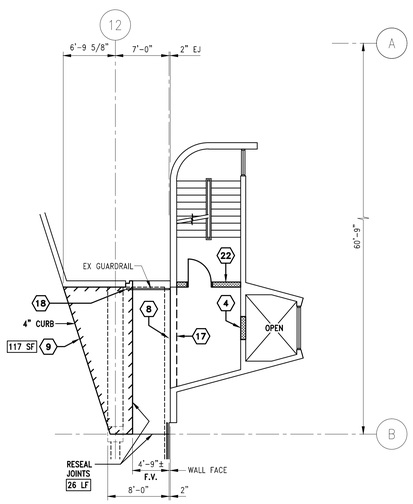
THIRD FLOOR PLAN
1/8" = 1'-0" (SOUTHWEST CORNER)



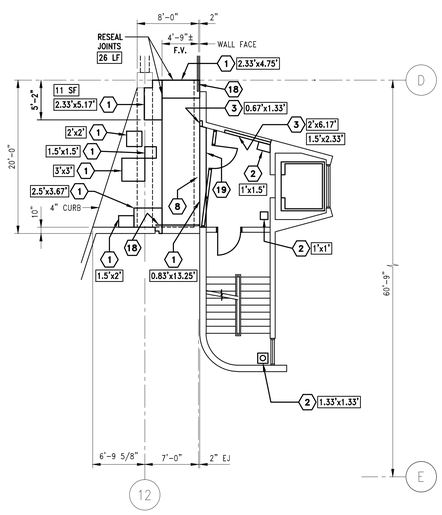
FOURTH FLOOR PLAN
1/8" = 1'-0" (SOUTHWEST CORNER)



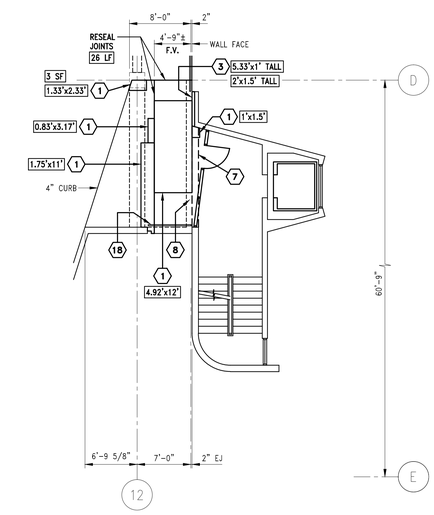
FIFTH FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



SIXTH FLOOR PLAN
1/8" = 1'-0" (SOUTHEAST CORNER)



FIFTH FLOOR PLAN
1/8" = 1'-0" (SOUTHWEST CORNER)



SIXTH FLOOR PLAN
1/8" = 1'-0" (SOUTHWEST CORNER)

KEYED CONSTRUCTION NOTES:

TAG	DESCRIPTION
1	REPAIR CONCRETE FLOOR SURFACE PER DETAIL 1/S5.1.
2	REPAIR OVERHEAD CONCRETE ON THE UNDERSIDE OF THE STAIR LANDING OR STAIR PER DETAIL 2/S5.1.
3	REPAIR WALL CONCRETE PER DETAIL 3/S5.1.
4	AT EXISTING ELEVATOR OPENING (3'Wx7'-2 1/2" TALL) PROVIDE AND INSTALL NEW 8" CMU WITH HORIZONTAL JOINT REINFORCING @ 16". ATTACH TO EX CONCRETE WALL, EACH SIDE, WITH A DUR-O-WAL DA 2200 JOINT STABILIZING ANCHOR @ 16". GROUT CORES SOLID FULL HEIGHT AT ANCHORS.
5	REMOVE AND REPLACE EXISTING STAIR TREAD/RISERS (3'-10" WIDE) PER DETAIL 5/S5.1.
6	REMOVE AND REPLACE APPROXIMATELY 14'-3" LF OF CONCRETE BEAM AND 24.67 LF (INCLUDES 4'-10" ON WEST OR EAST EDGE) OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 6/S5.1. REPLACE CURB AS INDICATED (97 SF).
7	REPAIR APPROXIMATELY 13'-3" LF OF CONCRETE BEAM PER DETAIL 7/S5.1.
8	PROVIDE AND INSTALL EXPANSION JOINT SEAL (18.5 LF) AND COVER (14.25 LF) PER ARCHITECTURAL DRAWING A2.11.
9	REMOVE AND REPLACE EXISTING CONCRETE CURB PER DETAIL 9/S5.1.
10	REMOVE AND REPLACE CONCRETE BEAM EDGE PER DETAIL 10/S5.1.
11	REPAIR CONCRETE SLAB/BEAM EDGE PER DETAIL 12/S5.1.
12	REPAIR CONCRETE WALL AROUND ELEVATOR LOUVER PER DETAIL 3/S5.1. SEAL AROUND LOUVER PER ARCHITECTURAL.
13	REMOVE EXISTING STOREFRONT FRAMING AS REQUIRED FOR CONCRETE REPAIRS. REPLACE AND SEAL PER ARCHITECTURAL.
14	NOT USED.
15	REMOVE AND REPLACE EXISTING SLAB ON GRADE PER TYPICAL DETAIL 11/S5.1
16	REPAIR APPROXIMATELY 13'-3" LF OF CONCRETE BEAM PER DETAIL 7/S5.1 AND REMOVE AND REPLACE 24.67 LF (INCLUDES 4'-10" ON EAST EDGE) OF CONCRETE ANCHORAGE ENCASEMENT PER DETAIL 6/S5.1. REPLACE CURB AS INDICATED (97 SF).
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23	REMOVE AND REPLACE APPROXIMATELY 14'-3" LF OF CONCRETE BEAM SIMILAR TO DETAIL 6/S5.1.
24	REMOVE AND REPLACE EXISTING GUARDRAIL AND FLOOR TO FLOOR MESH GUARD. REFASTEN FULL HEIGHT GUARD TO MATCH EXISTING. SALVAGE PIPE GUARDRAIL SLEEVE AND REINSTALL.
XXX	INDICATES APPROXIMATE DIMENSIONS, LINEAL FOOTAGE, OR SQUARE FOOTAGE OF REPAIR.

REV. #	DATE	DESCRIPTION	BY
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	7-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: R. MARR
DESIGNED BY: G. BATOR
CHECKED BY: G. BATOR
APPROVED BY: G.BATOR
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SOUTHEAST AND SOUTHWEST STAIR FRAMING PLANS

DRAWING NUMBER: S2.2

SHEET 1 OF 1

STRUCTURAL GENERAL NOTES

GENERAL

1. THIS BUILDING RENNOVATION HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE, 2009 EDITION.
2. THE OWNER WILL EMPLOY QUALIFIED SPECIAL INSPECTORS TO PERFORM INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE MICHIGAN BUILDING CODE. SPECIAL INSPECTIONS WILL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF THE MICHIGAN BUILDING CODE FOR CONCRETE. MASONRY SPECIAL INSPECTIONS SHALL BE LEVEL 1.
3. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS, THE OWNERS REQUIREMENTS FOR ACCESS TO THE SITE AND CONTINUED OPERATIONS DURING CONSTRUCTION.
4. THE PLAN, DETAIL DIMENSIONS & ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM AVAILABLE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS, ELEVATIONS & DETAILS AS NECESSARY AND MAKE APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL.
5. THE CONTRACTOR SHALL SUBMIT CONCRETE REINFORCING SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL ALSO SUBMIT MATERIAL REQUIREMENTS AND CONCRETE MIX DESIGNS. ALLOW (2) WEEKS FOR ENGINEER REVIEW.

DIVISION 2 – DEMOLITION/SHORING

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING WHERE REQUIRED DURING CONSTRUCTION. SHORING SHALL BE DESIGNED & DETAILED UNDER THE DIRECT SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MICHIGAN. SHORING PROCEDURES, DESIGNS AND DETAILS SHALL BE SUBMITTED FOR REVIEW PRIOR TO COMMENCEMENT OF WORK, ALLOW (2) WEEKS FOR ENGINEER TO REVIEW.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ERECTION PROCEDURE AND SEQUENCING AND TO SUBMIT WRITTEN PROCEDURES TO ENSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENTS DURING ERECTION.
3. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION. IF CONDITIONS EXIST THAT ARE DIFFERENT FROM WHAT IS INDICATED ON THE DRAWINGS, NOTIFY ARCHITECT FOR DIRECTION BEFORE PROCEEDING.

DIVISION 3 – CONCRETE

1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING, FABRICATION AND CONSTRUCTION OF ALL REINFORCED CONCRETE:
   A. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318.
   B. DETAILS & DETAILING OF CONCRETE REINFORCEMENT ACI 315.
2. ALL DEFORMED BAR REINFORCING SHALL BE ASTM A615 GRADE 60.
3. ALL WELDED WIRE FABRIC SHALL BE ASTM A185 FLAT SHEETS ONLY.
4. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH ($f'c$) OF 4500 PSI, 3" TO 5" SLUMP AND A WATER/CEMENT RATIO OF 0.45 MAXIMUM. ALL CONCRETE SHALL BE AIR ENTRAINED (6% ±1%).
5. ALL CONCRETE MIXES SHALL BE DESIGNED FOR EXPOSURE CLASSES F3, S0, P1 & C2.
6. SPLICES FOR DEFORMED BARS SHALL BE CLASS B WITH APPLICABLE INCREASES FOR BAR SPACING, COVER, TOP BAR EFFECT ETC. PER ACI 318.
7. BEFORE PLACING CONCRETE REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PIPE SLEEVES, EMBEDDED ITEMS, OPENINGS, EQUIPMENT PADS, ELECTRICAL CONDUITS, RECESSES, DRAINS, ETC. ALL OPENINGS FOR PIPE, CONDUITS, ETC. SHALL BE SLEEVED. MINIMUM SLEEVE SPACING SHALL BE 3 SLEEVE DIAMETERS.
8. CONCRETE CONTROL JOINTS SHALL BE CUT AS SOON AS CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT DISLODGEMENT OF AGGREGATES. SAW A CONTINUOUS SLOT TO A DEPTH OF 1/4 THE THICKNESS OF THE SLAB BUT NOT LESS THAN 1". COMPLETE SAWING WITHIN 12 HOURS AFTER PLACEMENT.
9. CONCRETE SHALL BE TESTED BY AN INDEPENDENT TESTING AGENCY. A SET OF (3) CONCRETE TEST CYLINDERS SHALL BE MADE AND TESTED FOR COMPRESSION STRENGTH AT 7 AND 28 DAYS OR EVERY 50 CUBIC YARDS OF CONCRETE CAST (MINIMUM OF (1) SET PER DAY OF CASTING). ALSO SLUMP AND UNIT WEIGHT TESTS SHALL BE PERFORMED EVERY OTHER TRUCK LOAD. CONTRACTOR MADE CONCRETE TEST CYLINDERS ARE NOT ACCEPTABLE.

DIVISION 4 – MASONRY

1. THE LATEST REVISION OF THE FOLLOWING CODES GOVERN THE DESIGN, DETAILING AND CONSTRUCTION OF ALL MASONRY:
   A. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES: ACI 530.
   B. SPECIFICATIONS FOR MASONRY STRUCTURES: ACI 530.1.
2. ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'm$=1500 PSI.
3. ALL MORTAR SHALL BE TYPE S, PROPORTIONED BY VOLUME ACCORDING TO ASTM C270.
4. ALL GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI AND SHALL BE PROPORTIONED BY VOLUME ACCORDING TO ASTM C476.
5. ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM OR HEAVY WEIGHT ASTM C90, GRADE N, TYPE 1 UNITS UNLESS NOTED OTHERWISE. UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI.
6. ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCEMENT (9 GA, HOT DIPPED GALVANIZED) AT 16" O.C. PROVIDE PREFABRICATED CORNER PIECES AT ALL CORNERS AND INTERSECTIONS OF WALLS.
7. ALL DEFORMED BAR REINFORCING SHALL BE ASTM A615, GRADE 60. AT LOCATIONS WHERE REINFORCING IS TO BE WELDED, THE DEFORMED BAR REINFORCING SHALL BE ASTM A706, GRADE 60. LAP SPLICES IN WALLS SHALL BE DETERMINED IN ACCORDANCE WITH ACI 530, BUT SHALL BE A MINIMUM OF 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
8. ALL MASONRY REINFORCING SHALL BE SECURED IN PLACE WITH REBAR POSITIONERS AND SPACERS.
9. ALL VERTICAL MASONRY WALL REINFORCEMENT SHALL BE CENTERED ON THE WALL, DOWELED INTO THE FOOTINGS, AND GROUTED SOLID, UNLESS NOTED OTHERWISE ON DETAILS.
10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY WALL BRACING ADEQUATE TO RESIST LATERAL LOADS.

ABBREVIATIONS LIST

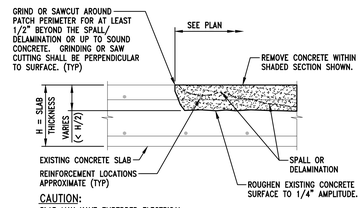
ADD'L	ADDITIONAL
@	AT
BF	BARRIER FREE
BM	BEAM
B.S.	BOTH SIDES
BOT	BOTTOM
B.O.	BOTTOM OF
BC	BUILDING COLUMN
C.L.	CENTER LINE
COL	COLUMN
CONC	CONCRETE
CSJ	CONSTRUCTION JOINT
CJ	CONTROL JOINT
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EQ	EQUAL
EX	EXISTING
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FND	FOUNDATION
FT	FOOT
FTG	FOOTING
GA	GAGE
H.P.	HIGH POINT
HORIZ	HORIZONTAL
k	KIPS
LF	LINEAL FEET
LL	LIVE LOAD
L.P.	LOW POINT
LN	LINE
MAX	MAXIMUM
MIN	MINIMUM
NIC	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
NO	NUMBER
O.C.	ON CENTER
PC	PIECE
PL	PLATE
PLCS	PLACES
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSIONED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPA	SPACE OR SPACED
STD	STANDARD
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WWF	WELDED WIRE FABRIC
w/	WITH
W.P.	WORK POINT

QUALITY ASSURANCE

1. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO BE INFORMED, TO PROVIDE FOR, AND TO MAINTAIN SAFETY OF OPERATING EQUIPMENT AND HANDLING OF MATERIALS. THE CONTRACTORS SHALL COMPLY WITH ALL SAFETY STANDARDS OF OSHA, MIOSHA AND ANY OTHER STANDARD ENFORCEABLE BY LAW.
2. THE ENGINEER AND ANY OF HIS CONSULTANTS ARE NOT RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCE OF ERECTION, OR OTHER PROCEDURES OF THE CONSTRUCTION WORK.

WARNING:

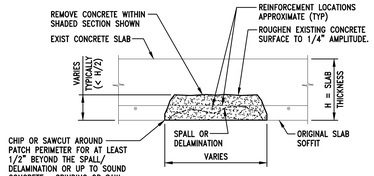
3. THE ERECTION OF THIS STRUCTURE IS NOT INCORPORATED IN THE DESIGN OR IN ANY DETAILS.



CAUTION:
SLAB MAY HAVE EMBEDDED ELECTRICAL CONDUITS. VERIFY LOCATION PRIOR TO COMMENCEMENT OF WORK.

NOTES:
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING".
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. NEW PATCH SHALL MATCH EXISTING FINISH.

1 S5.1 PARTIAL DEPTH CONCRETE FLOOR REPAIR
N.T.S.



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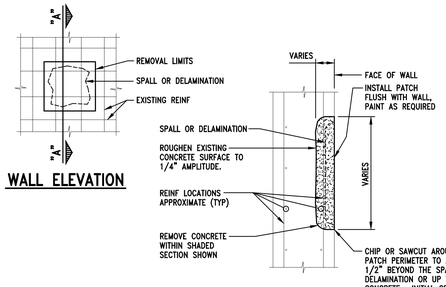
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING OR SAW CUTTING FOR SPALL/DELAMINATION REPAIR.
2. REFER TO SECTION "SURFACE PREPARATION FOR PATCHING" FOR CLEANING AND COATING ALL EXPOSED REINFORCEMENT.
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING".
4. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
5. PROVIDE SHORING AS SPECIFIED BY ENGINEER PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.
6. NEW PATCH SHALL MATCH EXISTING FINISH.

2 S5.1 PARTIAL DEPTH OVERHEAD SLAB REPAIR
N.T.S.



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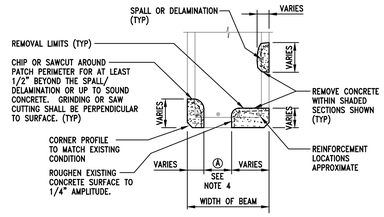
5. NEW PATCH SHALL MATCH EXISTING FINISH.

3 S5.1 CONCRETE WALL REPAIR DETAIL
N.T.S.



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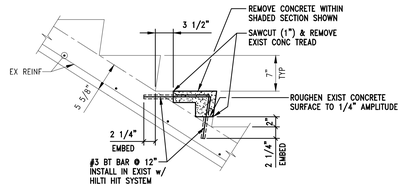
3. PROVIDE 3/4" CLEARANCE AROUND ALL EXPOSED REINFORCEMENT WHERE REQUIRED AS SPECIFIED IN SECTION "SURFACE PREPARATION FOR PATCHING".
4. WHERE DIMENSION "A" SHOWN IN DETAIL IS 4" OR LESS, REPAIR ENTIRE WIDTH OF BEAM.
5. WHERE REINFORCEMENT THAT IS EXPOSED DURING SURFACE PREPARATION IS FOUND TO BE SEVERELY CORRODED OR HAS LOST 10% OR MORE OF ITS CROSS SECTIONAL AREA, SUPPLEMENTARY REINFORCEMENT MAY BE REQUIRED. REPORT TO ENGINEER FOR REVIEW AND DESIGN OF SUPPLEMENTARY REINFORCEMENT.
6. PROVIDE SHORING AS REQUIRED PRIOR TO COMMENCEMENT OF ANY CONCRETE REMOVAL WORK.

4 S5.1 CONCRETE BEAM REPAIR
N.T.S.

NOTE: STAIR WIDTH = 3'-10"



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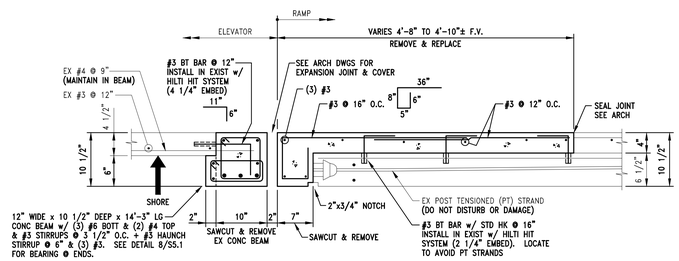
5. NEW PATCH SHALL MATCH EXISTING FINISH.

5 S5.1 STAIR TREAD REPAIR DETAIL
1" = 1'-0"



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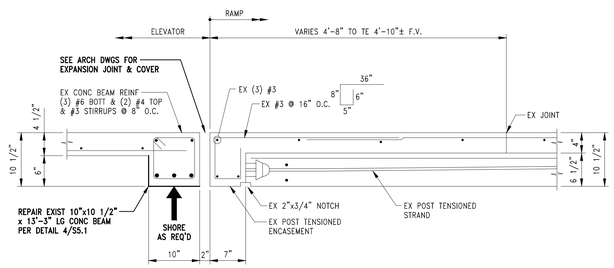
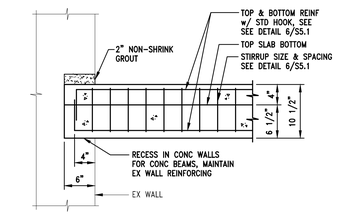
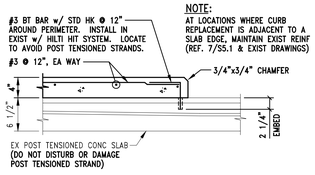
6 S5.1 BEAM REPLACEMENT DETAIL
1" = 1'-0"



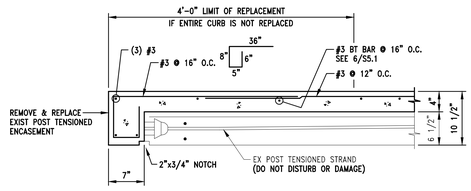
7 S5.1 BEAM REPAIR DETAIL
1" = 1'-0"



8 S5.1 TYP CONCRETE BEAM BEARING
1" = 1'-0"



9 S5.1 TYP CONCRETE CURB REPLACEMENT
1" = 1'-0"



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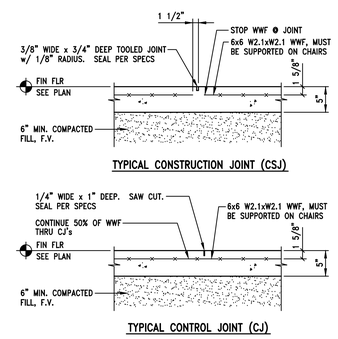
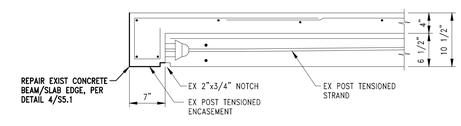
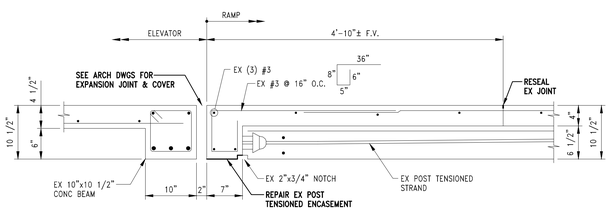
10 S5.1 EDGE REPLACEMENT DETAIL
1" = 1'-0"



11 S5.1 TYP SLAB ON GRADE DETAILS
NO SCALE



12 S5.1 EDGE REPAIR DETAIL
1" = 1'-0"



13 S5.1 BEAM REPAIR DETAIL
1" = 1'-0"

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	7-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: R. MARR
DESIGNED BY: G. BATOR
CHECKED BY: G. BATOR
APPROVED BY: G.BATOR
PROJECT NUMBER: 12-0462-0189

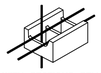
SHEET TITLE: GENERAL NOTES AND CONCRETE REPAIR DETAILS

DRAWING NUMBER: S5.1

SHEET 1 OF 1

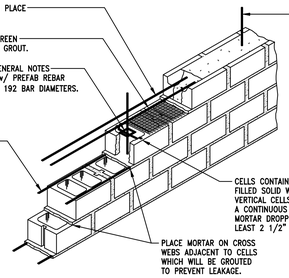
NOTE:
BETWEEN GROUT POURS A HORIZ CONST JT SHALL BE FORMED BY STOPPING ALL WYTHES AT THE SAME ELEV AND WITH GROUT STOPPING A MINIMUM OF 1 1/2" BELOW A MORTAR JT EXCEPT AT TOP OF WALL.

SLOTTED UNIT



UNIT WITH SECTIONS REMOVED

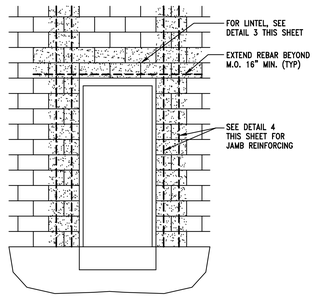
NOTE:
KNOCKOUT SLOTS MAY BE CAST IN UNIT WHEN MOLDED
OR
CUT OUT WITH A MASONRY SAW AFTER UNIT HAS BEEN CURED



1 / S5.2 LOW LIFT-GROUTING TECHNIQUE GROUT IS PLACED IN LIFT UP TO 5'-0"

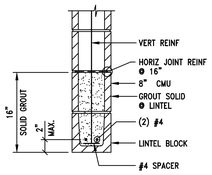
NO SCALE

HIGH LIFT GROUTING SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 530.1 SPECIFICATIONS FOR MASONRY STRUCTURES. CLEANOUTS SHALL BE PROVIDED AND INSPECTED.



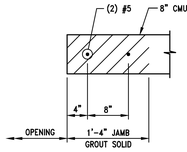
2 / S5.2 TYP MASONRY OPENING DETAILS

NO SCALE



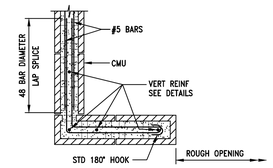
3 / S5.2 DETAIL

NO SCALE



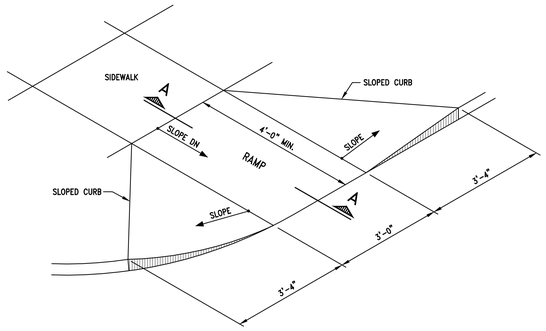
4 / S5.2 JAMB DETAIL

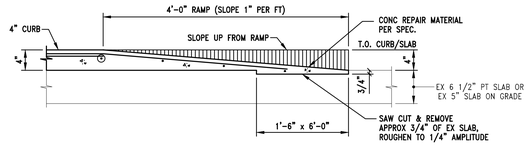
NO SCALE



5 / S5.2 CORNER DETAIL

NO SCALE





SECTION "A – A"

6 / S5.2 TYP BARRIER FREE RAMP DETAILS

NO SCALE

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	7-23-12	ISSUED FOR BID	TM

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

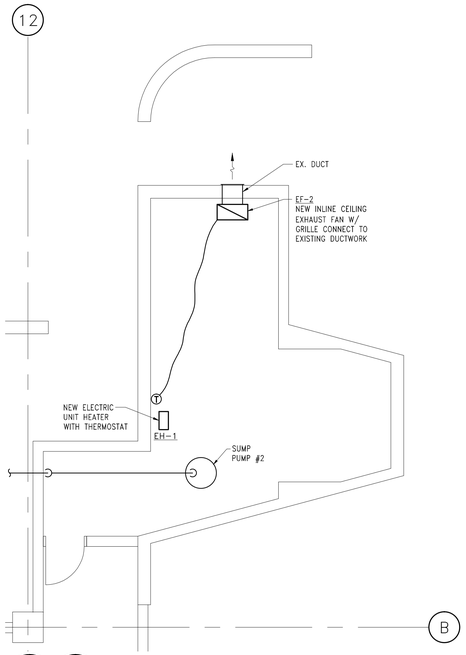
PROJECT:
DOW EVENT CENTER
PARKING RAMP RENOVATIONS

DRAWN BY: R. MARR
DESIGNED BY: G. BATOR
CHECKED BY: G. BATOR
APPROVED BY: G.BATOR
PROJECT NUMBER: 12-0462-0189

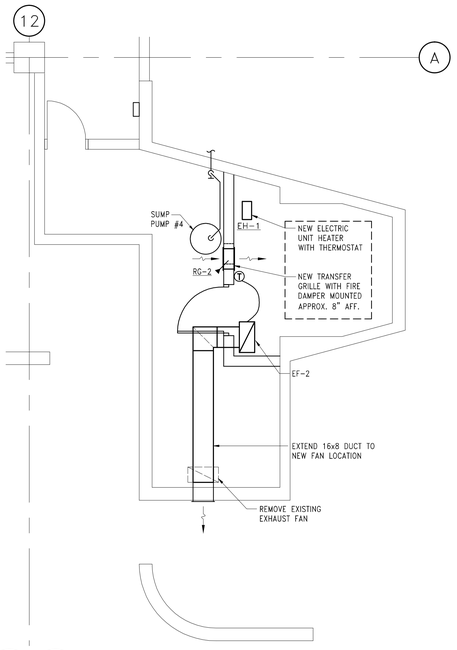
SHEET TITLE: TYPICAL DETAILS

DRAWING NUMBER: S5.2

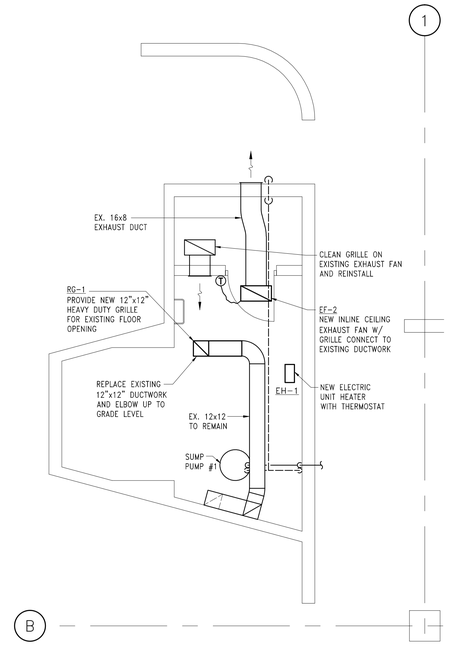
SHEET 1 OF 1



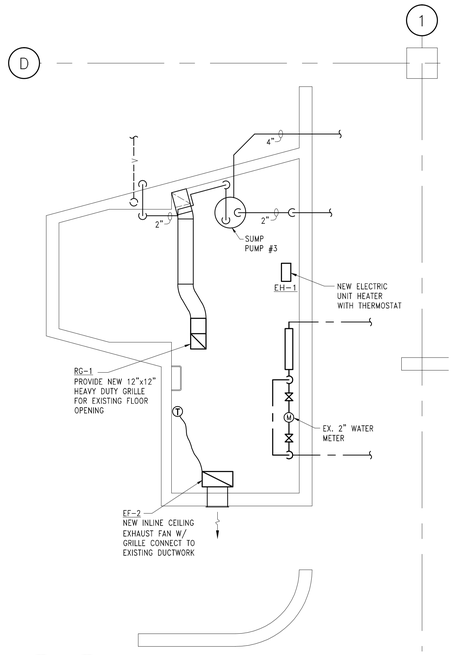
N 1/M5.1 ELEVATOR MECH. ROOM SOUTH EAST HVAC REVISION
1/4" = 1'-0"



N 2/M5.1 ELEVATOR MECH. ROOM SOUTH WEST HVAC REVISION
1/4" = 1'-0"



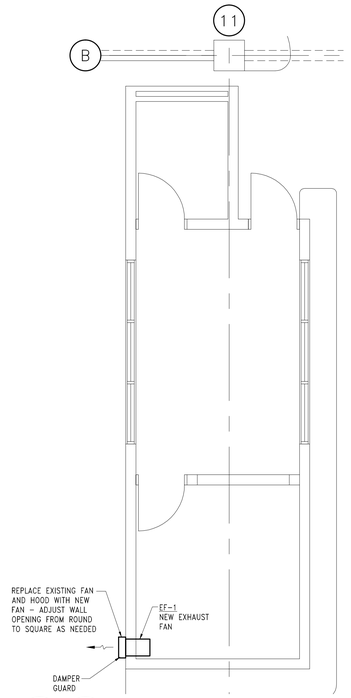
N 3/M5.1 ELEVATOR MECH. ROOM NORTH EAST HVAC REVISION
1/4" = 1'-0"



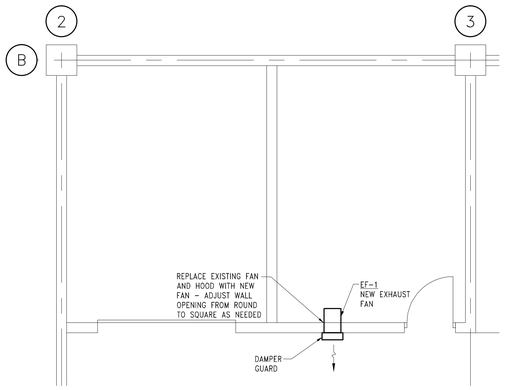
N 4/M5.1 ELEVATOR MECH. ROOM NORTH WEST HVAC REVISION
1/4" = 1'-0"

MECHANICAL SYMBOLS LEGEND

	WALL GRILLE
	VERTICAL FIRE DAMPER
	ELECTRIC UNIT HEATER
	EXHAUST FAN
T	THERMOSTAT
EF	EXHAUST FAN
EH	ELECTRIC UNIT HEATER
EX	EXISTING



N 5/M5.1 OFFICE AREA GRADE LEVEL HVAC REVISION
1/4" = 1'-0"



N 6/M5.1 BASEMENT STORAGE HVAC REVISION
1/4" = 1'-0"

EXHAUST FAN SCHEDULE

MARK	TYPE	AREA SERVED	GREENHECK MODEL NO	CFM	SP	MOTOR	SIZE	VOLTAGE	WEIGHT (LBS)	SONES	QUANTITY
EF-1	SIDEWALL DIRECT DRIVE	BASEMENT STORAGE	SE1-8-428-P	250	0.125	1/40 HP	13.25"x13.25"x19"	115/60/1	39	3.8	2
EF-2	INLINE CEILING EXHAUST	ELEVATOR MECH RMS	SP-A700	500	0.25	350 WATTS	25.125"x13.375"x11.625"	115/60/1	36	2.7	4

NOTES:
1. FURNISH EF-1 WITH SHORT WALL HOUSING, OSHA APPROVED GUARD, BACKDRAFT DAMPER AND DAMPER GUARD.
2. CONNECT TO EXISTING FAN ELECTRICAL.
3. REVISE EXISTING WALL OPENING AS NEEDED FOR EF-1 FAN CONFIGURATION.
4. FURNISH EF-2 WITH NEW HUMIDITY/TEMPERATURE CONTROL SIMILAR TO DAYTON MODEL 1UHG9 LINE VCONTROL WITH LCD DISPLAY.

DIFFUSER AND GRILLE SCHEDULE

TAG	BASIS OF DESIGN		MATERIAL	FRAME/ BORDER	NECK SIZE	QUANTITY	REMARKS
	MANUFACTURER	MODEL NO.					
RG-1	PRICE	LBPH 25B	ALUMINUM	1"	12x12	2	HEAVY DUTY, WALK PROOF, 0° DEFLECTION, 1/2" SPACING, PA FINISH.
RG-2	PRICE	91	STEEL	1 1/4"	16x16	1	HEAVY DUTY, FIXED LOUVER BLADES, SCREW FASTENING, WHITE FINISH.

NOTES:
1. FIELD VERIFY EXISTING OPENING SIZE PRIOR TO ORDERING.

ELECTRIC UNIT HEATER SCHEDULE

MARK	TYPE	AREA SERVED	MARKEL MODEL NO	ELECTRIC	VOLTAGE	SIZE	WEIGHT	QUANTITY
EH-1	VERTICAL PROPELLER	ELEVATOR MECH. RMS.	F1F5105	5kW	208/60/1	21.5"x6.5"x28.75"	25 LBS	4

NOTES:
1. FURNISH WITH UNIT MOUNTED THERMOSTAT AND DISCONNECT.
2. FURNISH WITH MOUNTING BRACKET.

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STATUS/REVISIONS

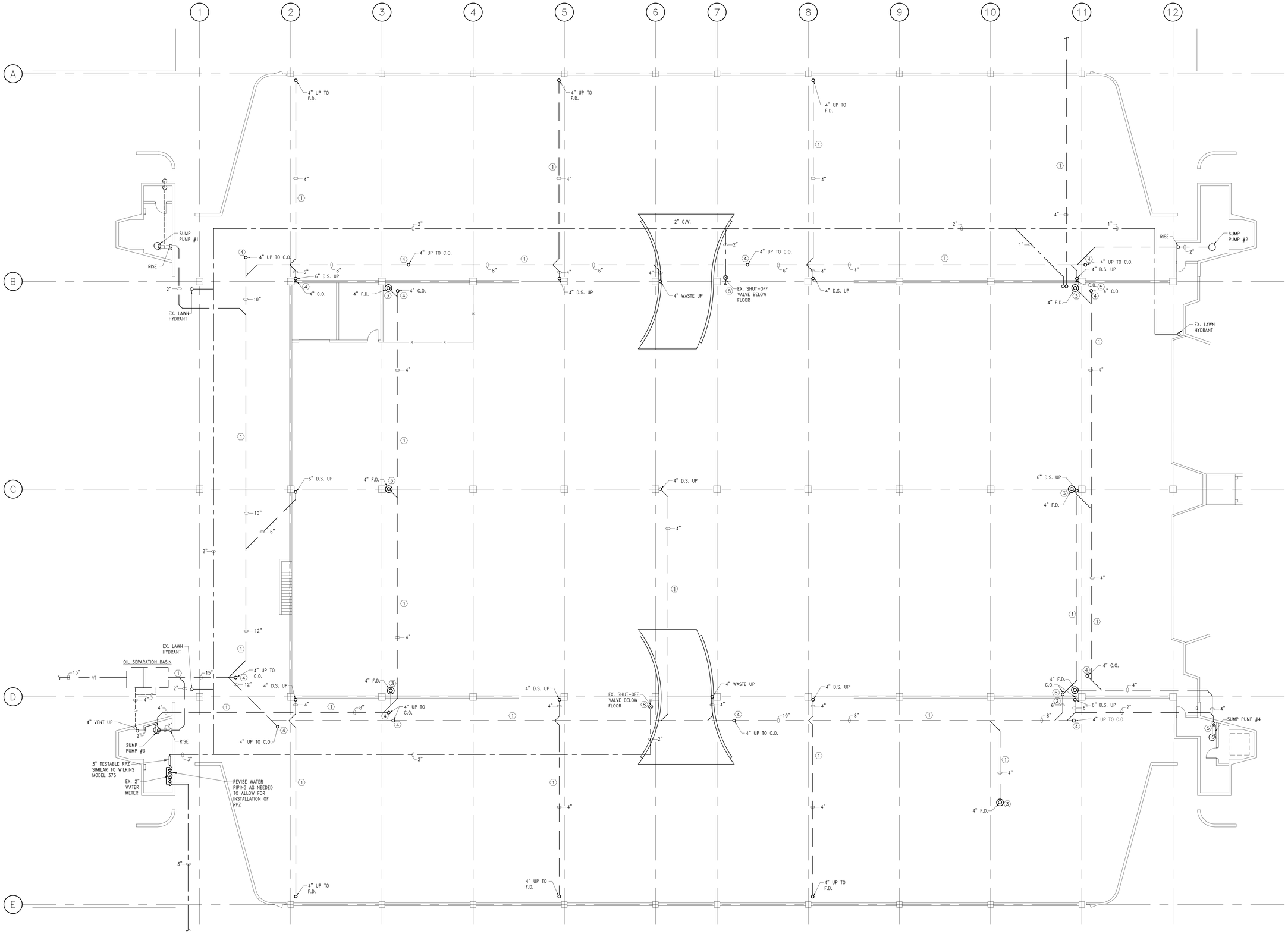
WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T.MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED HVAC PLANS AND SCHEDULES

DRAWING NUMBER: M5.1
SHEET OF



BASEMENT DRAINAGE PLAN

3/32"=1'-0"

SYMBOLS LEGEND

- DOMESTIC COLD WATER PIPING
- DRAINAGE PIPING
- FLOOR DRAIN
- ROOF DRAIN
- CLEAN OUT
- WALL CLEAN OUT
- RISER
- 90° DOWN
- EXPANSION JOINT DRAIN PAN
- FLOOR SINK

ABREVIATIONS

C.O.	CLEAN OUT
C.W.	DOMESTIC COLD WATER
DN.	DOWN
D.S.	DOWN SPOUT
F.D.	FLOOR DRAIN
F.P.	FIRE PROTECTION
R.D.	ROOF DRAIN

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT – SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. REMOVE EX. CAP ON 2" WATER PIPE AT GROUND LEVEL AND PROVIDE 2" MALE THREADED CONNECTION WITH 2" HYDRANT CAP WITH CHAIN.

GENERAL NOTES:

1. AVOID EXISTING REINFORCING WITH ALL NEW PIPE SUPPORTS. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING FIRM, ACCEPTABLE TO THE STRUCTURAL ENGINEER, TO PERFORM NON-DESTRUCTIVE TESTING OF ALL THE EXISTING COLUMNS AT NEW PIPE SUPPORT LOCATIONS TO LOCATE REINFORCING.

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

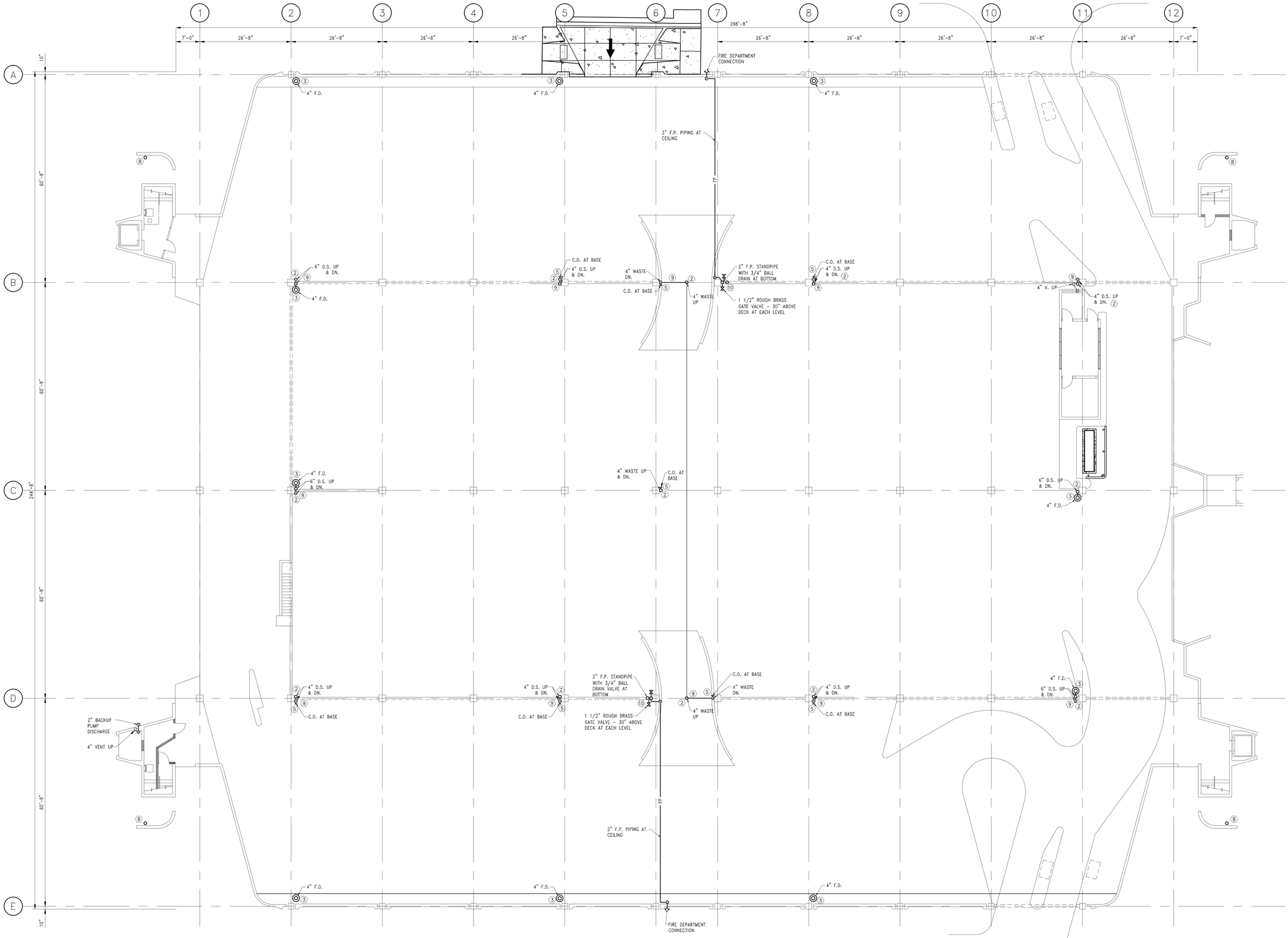
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: BASEMENT LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.1

SHEET 1 OF 9



GROUND LEVEL DRAINAGE PLAN

3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 4" DRAIN THROUGH BOTTOM OF LANDING TO REMAIN.
9. OFFSET AT UNDERSIDE OF 2ND LEVEL SLAB.
10. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.

NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
3. AVOID EXISTING REINFORCING WITH ALL NEW PIPE SUPPORTS. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING FIRM, ACCEPTABLE TO THE STRUCTURAL ENGINEER, TO PERFORM NON-DESTRUCTIVE TESTING OF ALL THE EXISTING COLUMNS AT NEW PIPE SUPPORT LOCATIONS TO LOCATE REINFORCING.

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STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

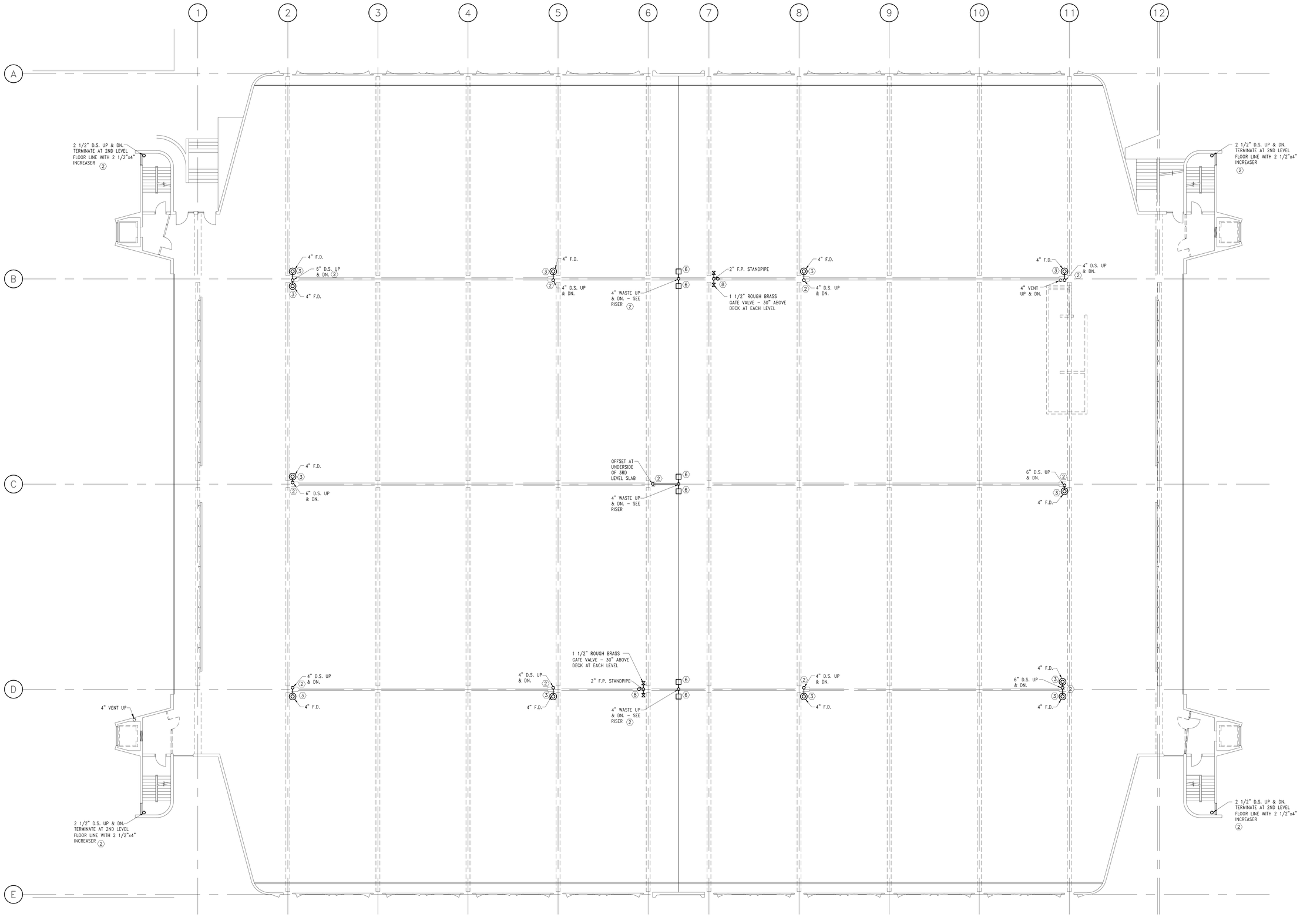
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: GROUND LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.2

SHEET 2 OF 9



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2ND LEVEL DRAINAGE PLAN

3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.

NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
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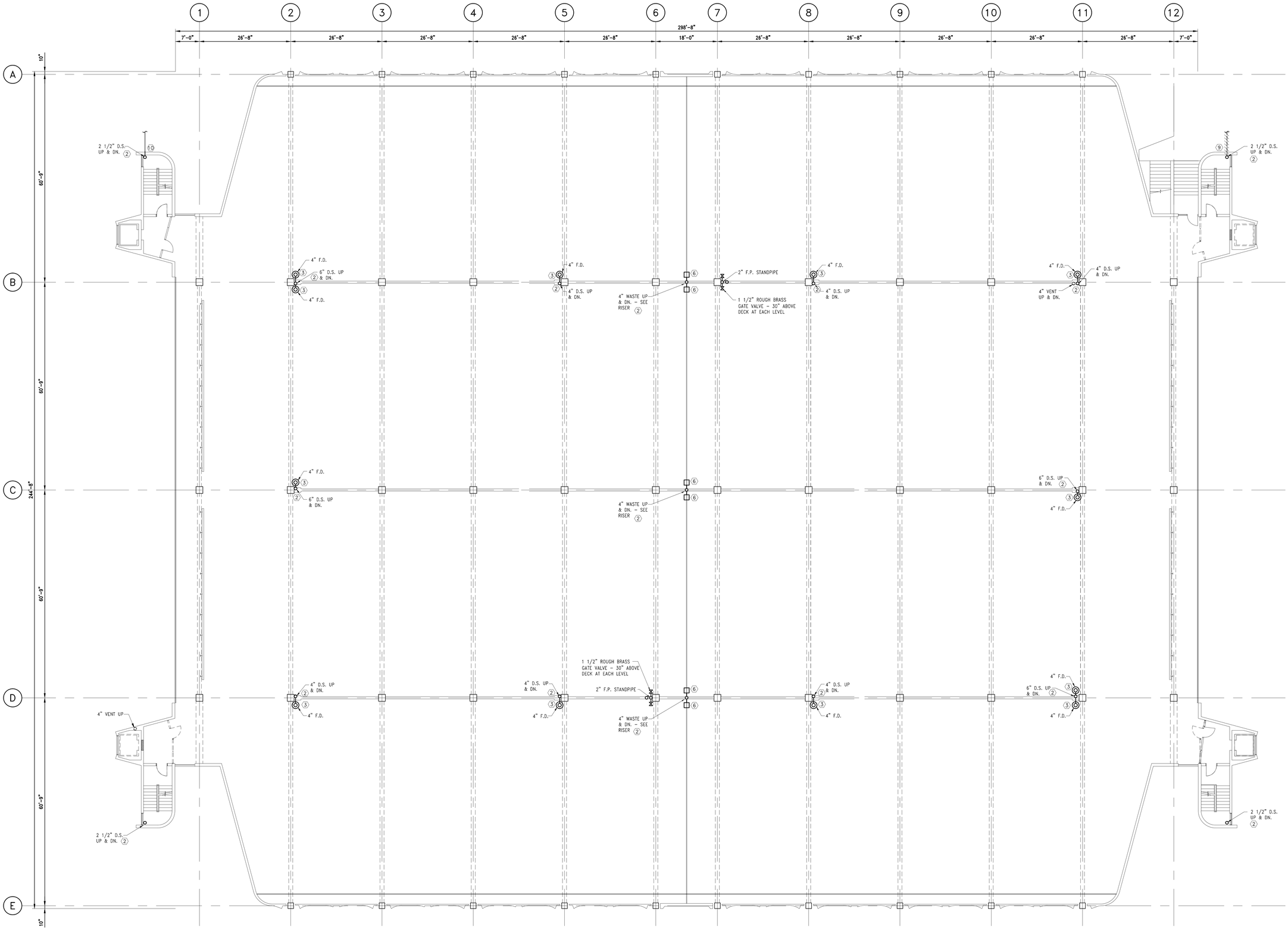
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: 2ND LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.3

SHEET 3 OF 9



3RD LEVEL DRAINAGE PLAN

3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY. OFFSET RISER AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.
9. REMOVE PIPING TO WALKWAY ROOF THROUGH WALL TO ALLOW FOR WALL PATCHING BY GENERAL TRADES.
10. REPLACE CAST IRON PIPING THROUGH WALL AND RECONNECT TO EXISTING PIPING FROM ADJACENT ROOF.

GENERAL NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
3. AVOID EXISTING REINFORCING WITH ALL NEW PIPE SUPPORTS. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING FIRM, ACCEPTABLE TO THE STRUCTURAL ENGINEER, TO PERFORM NON-DESTRUCTIVE TESTING OF ALL THE EXISTING COLUMNS AT NEW PIPE SUPPORT LOCATIONS TO LOCATE REINFORCING.

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William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

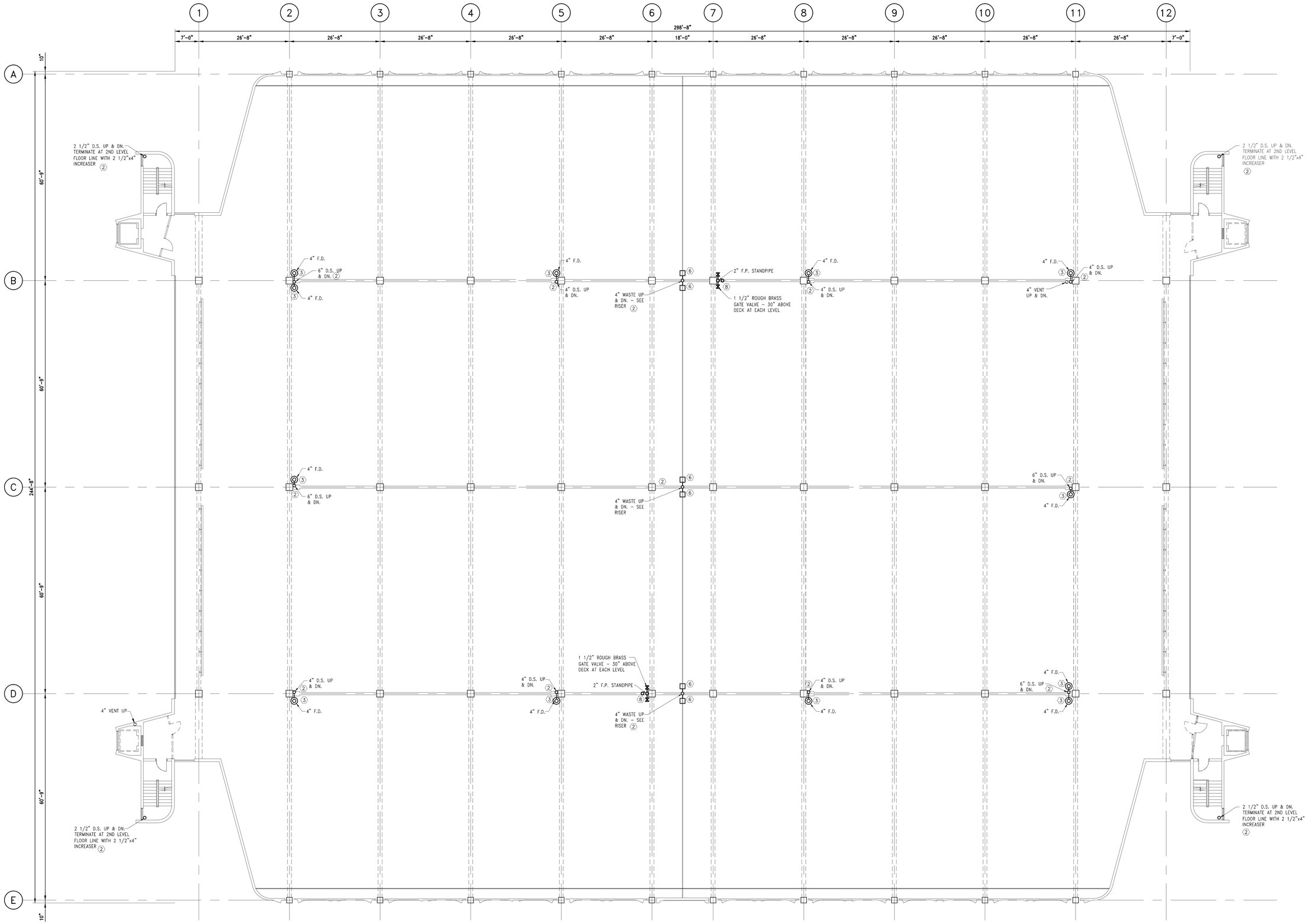
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: 3RD LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.4

SHEET 4 OF 9



GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY. OFFSET RISER AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.

GENERAL NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
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4TH LEVEL DRAINAGE PLAN

3/32"=1'-0"

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1475 S. Washington Avenue, Saginaw, MI 48601

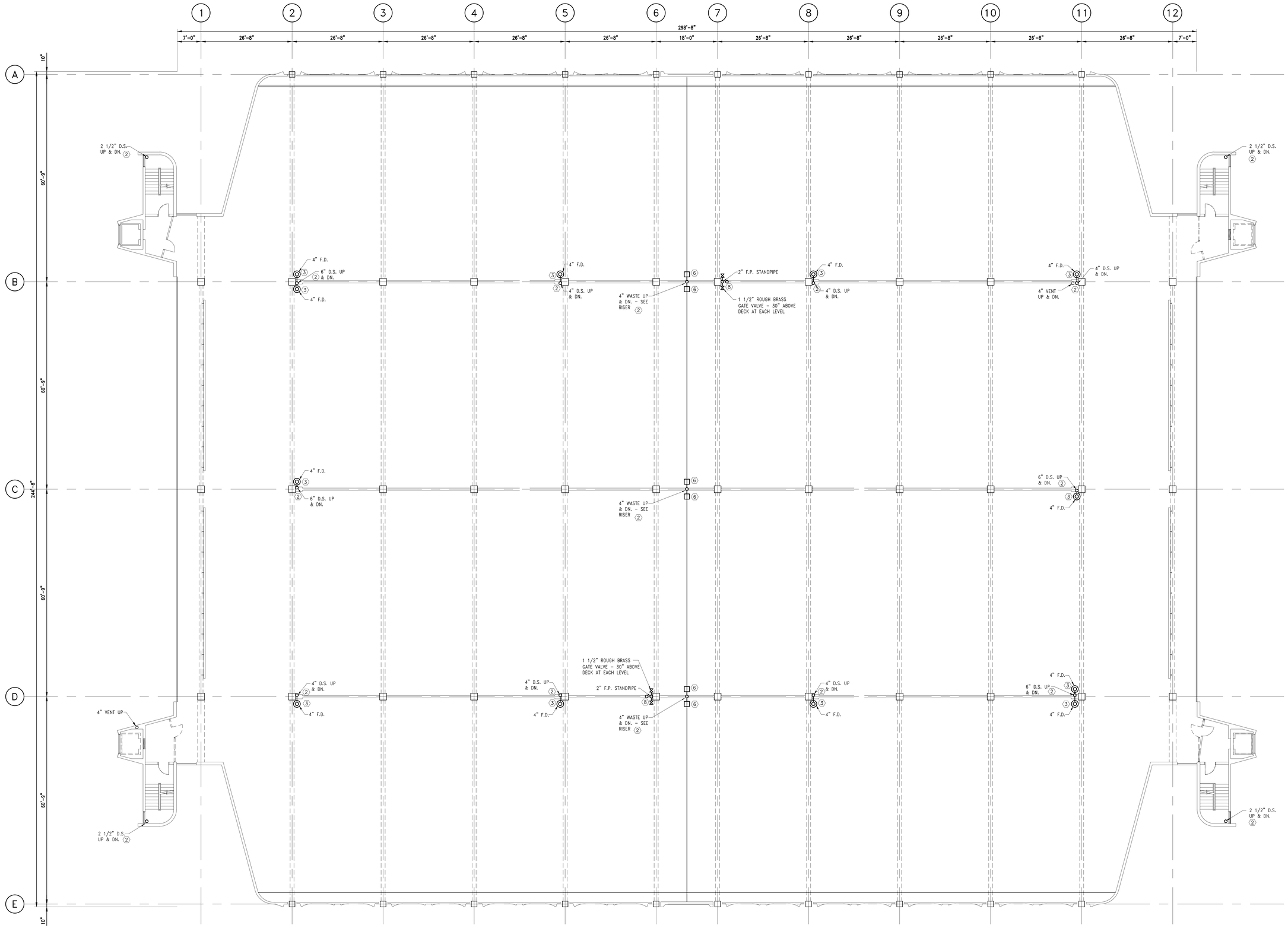
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: 4TH LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.5

SHEET 5 OF 9



5TH LEVEL DRAINAGE PLAN

3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY. OFFSET RISER AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.

GENERAL NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
3. AVOID EXISTING REINFORCING WITH ALL NEW PIPE SUPPORTS. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING FIRM, ACCEPTABLE TO THE STRUCTURAL ENGINEER, TO PERFORM NON-DESTRUCTIVE TESTING OF ALL THE EXISTING COLUMNS AT NEW PIPE SUPPORT LOCATIONS TO LOCATE REINFORCING.

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William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

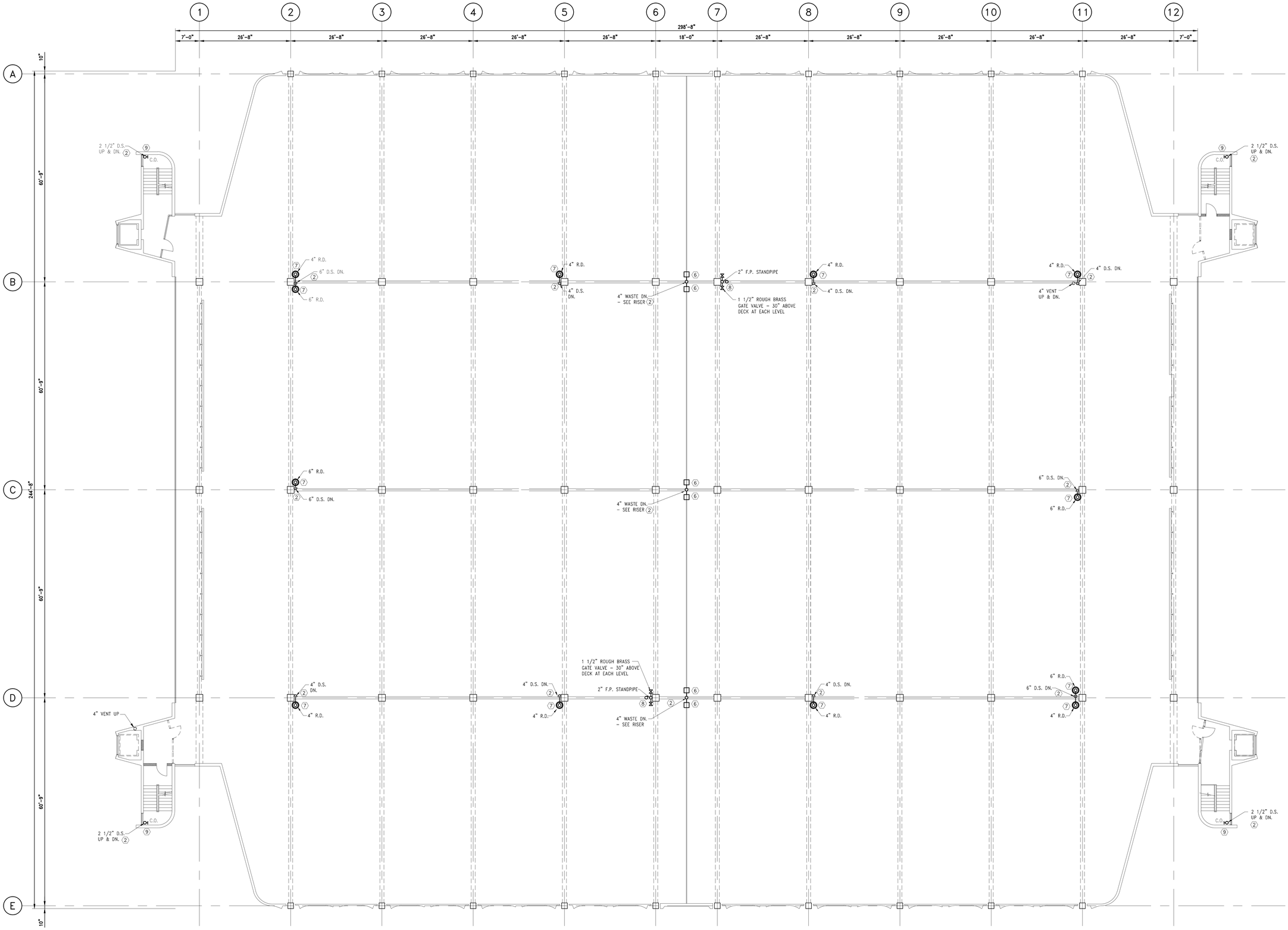
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: 5TH LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.6

SHEET 6 OF 9



6TH LEVEL DRAINAGE PLAN

3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY. OFFSET RISER AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.
9. PROVIDE CLEANOUT NEAR CEILING AT ROOF PENETRATION FOR INSTALLATION OF HEAT TRACE.

GENERAL NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.
3. AVOID EXISTING REINFORCING WITH ALL NEW PIPE SUPPORTS. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A QUALIFIED TESTING FIRM, ACCEPTABLE TO THE STRUCTURAL ENGINEER, TO PERFORM NON-DESTRUCTIVE TESTING OF ALL THE EXISTING COLUMNS AT NEW PIPE SUPPORT LOCATIONS TO LOCATE REINFORCING.

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William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

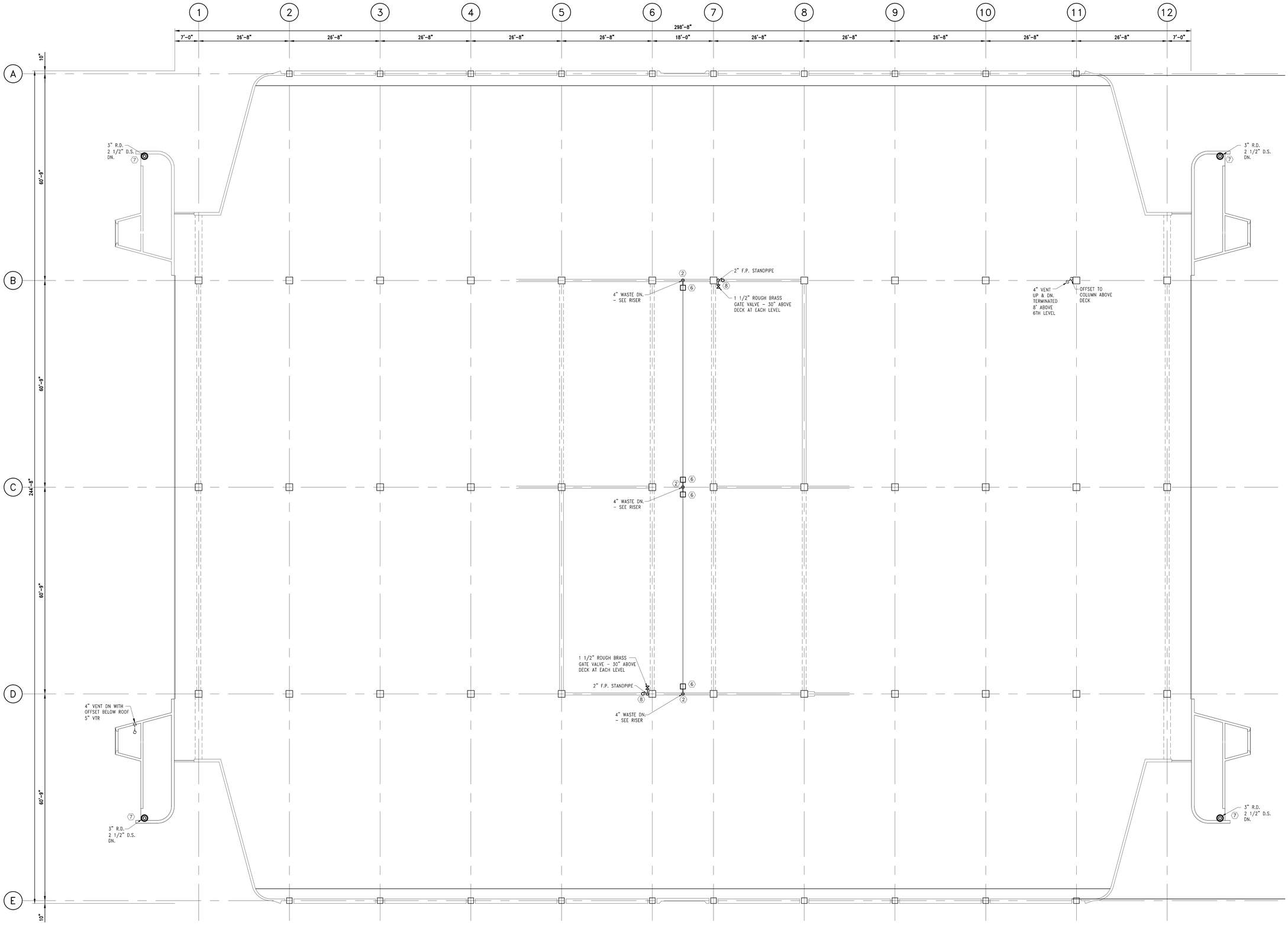
PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: 6TH LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.7

SHEET 7 OF 9



ROOF LEVEL DRAINAGE PLAN

N 3/32"=1'-0"

GENERAL KEYED NOTES:

1. EXISTING CAST IRON PIPING TO REMAIN.
2. REMOVE EXPOSED CAST IRON PIPING AND REPLACE WITH PVC.
3. EXISTING FLOOR DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER IF NEEDED. CONNECT NEW PVC PIPING TO DRAIN.
4. EXISTING CLEAN-OUT TO REMAIN. REPLACE COVER IF DAMAGED.
5. PROVIDE CLEAN-OUT IN NEW PVC VERTICAL PIPING TO REPLACE EXISTING CAST IRON CLEAN-OUT.
6. REMOVE EXISTING DRAIN PAN FROM BELOW EXPANSION JOINT. INSTALL NEW FLOOR SINK BELOW EXPANSION JOINT - SEE RISER DETAIL.
7. EXISTING ROOF DRAIN TO REMAIN. REMOVE ANY DEBRIS FROM DRAIN AND REPLACE COVER WHERE REQUIRED AND DIRECTED.
8. 2" GALVANIZED WASHDOWN RISER WITH 3/4" HYDRANT AT EACH LEVEL. SUPPORT HYDRANT FROM FLOOR OR COLUMN AS NECESSARY. OFFSET RISER AS NECESSARY AT EACH LEVEL TO AVOID CUTTING CONCRETE DECK.

GENERAL NOTES:

1. NEW FIRE RISER PIPING IS TO BE SCH. 40 GALVANIZED.
2. ALL EXPOSED DRAIN PIPING IS TO BE PVC UNLESS NOTED OTHERWISE.

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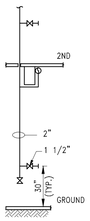
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189

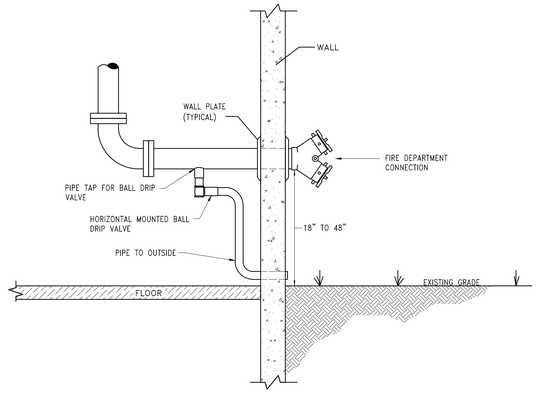
SHEET TITLE: ROOF LEVEL DRAINAGE PLAN

DRAWING NUMBER: P2.8

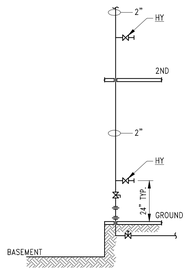


FIRE RISER DETAIL
NTS

DRAIN SCHEDULE				
MARK	MAKE	MODEL	TYPE	REMARKS
3" R.D.	JOSAM	403	CAST IRON	FLASHING CLAMP WITH 4 LB. SHEET LEAD FLASHING
6" R.D.	JOSAM	526	CAST IRON BODY	DUCTILE IRON GRATE – NO TRAP
4" F.D.	JOSAM	524	CAST IRON BODY	DUCTILE IRON GRATE – NO TRAP
C.O. (FLOOR)	JOSAM	Y-624-F	CAST IRON BODY	
F.S.	SOULX CHIEF	861-4PX	PVC	SCHEDULE 40 PVC FLOOR SINK W/4" HUB CONNECTION
HY	ZURN	Z1333-34EL	BRONZE	CERAMIC DISC WALL HYDRANT, EXPOSED, ANTI-SYPHON, AUTOMATIC DRAINING, MODERATE CLIMATE WITH 3/4" 90° SOLDER INLET ELBOW



WALL MOUNTED FIRE DEPARTMENT CONNECTION
NTS



WASHDOWN RISER DETAIL
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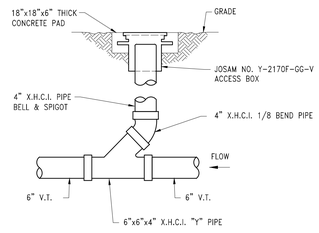
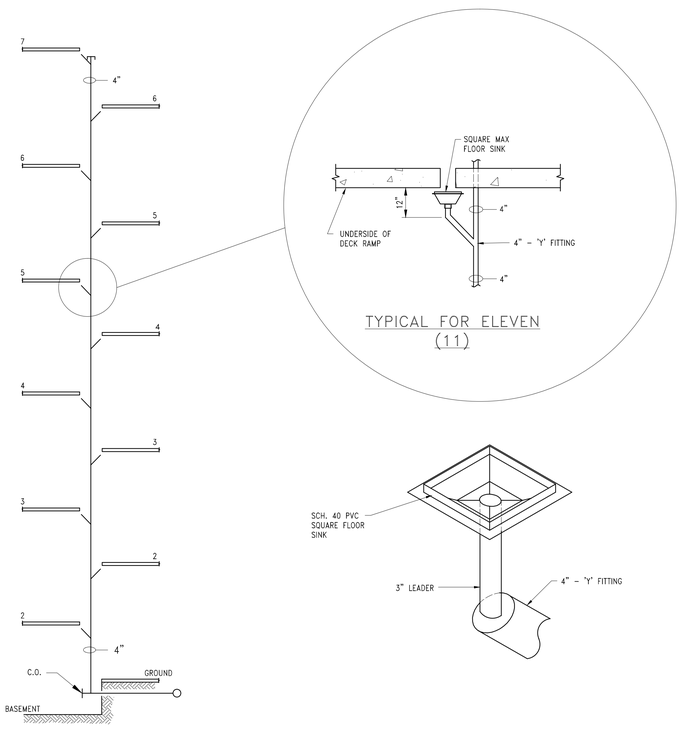
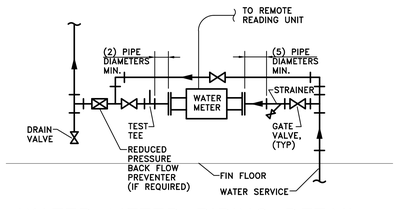


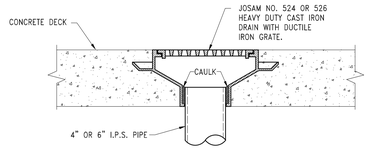
EXISTING CLEANOUT TO GRATE
NTS



WASTE RISER DIAGRAM AT EXPANSION JOINTS TYPICAL FOR THREE (3)
NTS



WATER METER PIPING DETAIL
NTS



EXISTING DRAIN DETAIL
NTS

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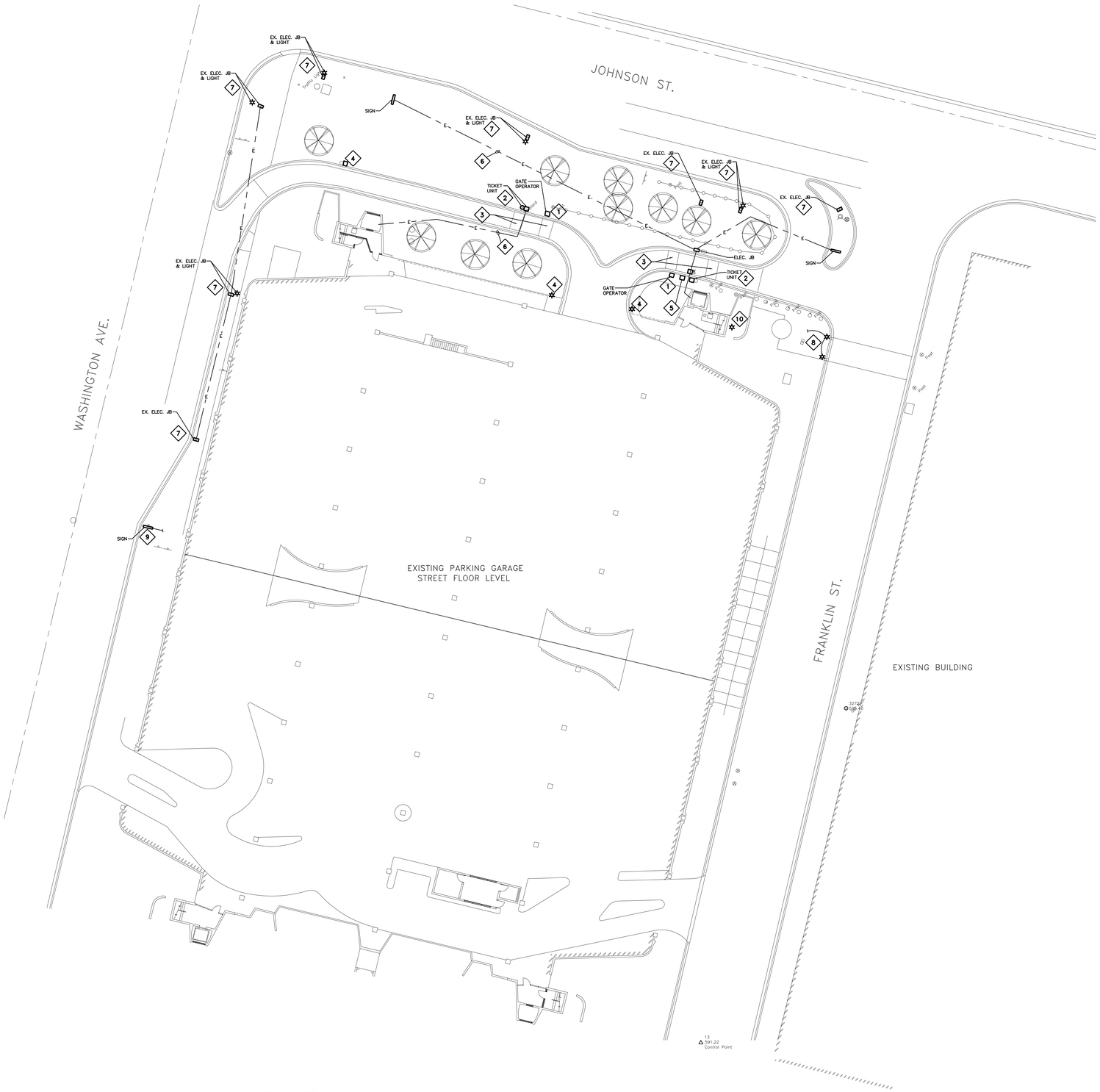
Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
DOW EVENT CENTER PARKING RAMP RENOVATIONS

DRAWN BY: J. BEISER
DESIGNED BY: J. MINTZ
CHECKED BY: J. MINTZ
APPROVED BY: T. MINER
PROJECT NUMBER: 12-0462-0189
SHEET TITLE: DRAINAGE DETAILS
DRAWING NUMBER: P5.1
SHEET 9 OF 9



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1 ES1.1 ELECTRICAL SITE – DEMOLITION

SCALE: 1"=20'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOUNT GATE OPERATOR ON NEW BASE.
2	DISCONNECT AND REMOVE TICKET UNIT WITH ASSOCIATED BASE. CONDUIT TO REMAIN.
3	DISCONNECT AND REMOVE GROUND LOOP WITH ASSOCIATED CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXISTING LIGHT BASE. ABANDON CONDUIT BELOW GRADE.
5	DISCONNECT AND REMOVE EXISTING CONCRETE BASE AND METAL BOX WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
6	EXISTING CONDUIT AND WIRE TO REMAIN.
7	EXISTING STREET LIGHT AND JUNCTION BOX TO REMAIN.
8	EXISTING BOLLARDS TO REMAIN. TRACE CIRCUIT AND CONNECT TO NEW RELAY PANEL.
9	EXISTING SIGN TO REMAIN. TRACE CIRCUIT AND CONDUIT.
10	EXISTING ABANDONED LIGHT FIXTURE. DISCONNECT AND REMOVE WITH CONCRETE REMOVAL.

REV. #	DATE	DESCRIPTION	BY
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	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

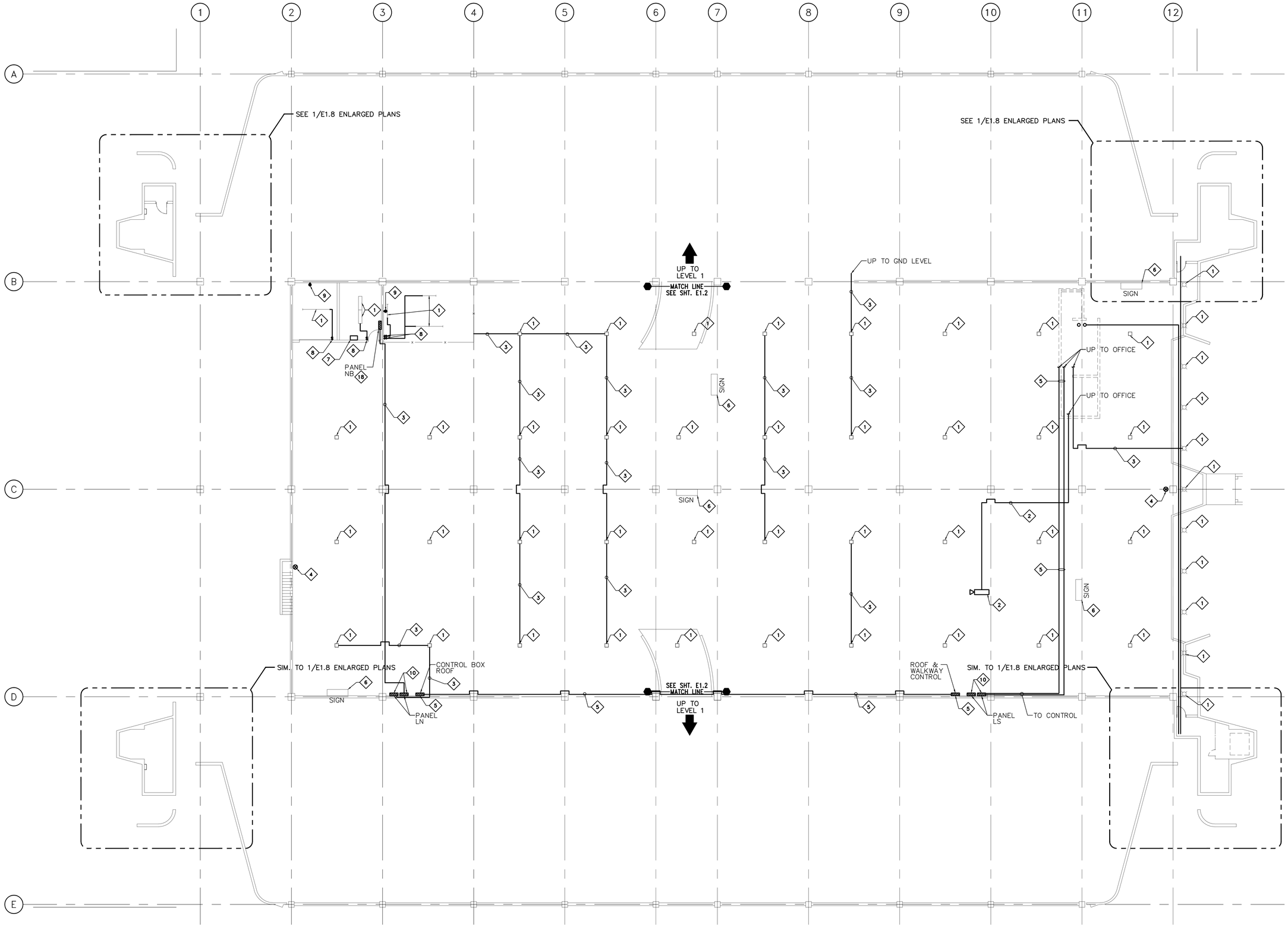
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ELECTRICAL SITE DEMOLITION

DRAWING NUMBER: ES1.1

SHEET 1 OF 1



1 / E1.1 BASEMENT LEVEL – ELECTRICAL DEMOLITION

3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
6	EXISTING POWERED WAYFINDING SIGNS TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
7	EXISTING HEATER TO REMAIN.
8	EXISTING SWITCH LOCATION TO REMAIN.
9	EXISTING RECEPTACLE TO REMAIN.
10	DISCONNECT AND REMOVE EXISTING DOUBLE PANEL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE AND TO BRANCH CIRCUITS.
11	TRANSFORMER AND METER TO REMAIN.
12	DISCONNECT AND REMOVE EXISTING SWITCH TO LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
13	DISCONNECT AND REMOVE POWER AND CONTROLS TO BOOTHS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. INCLUDES BUT NOT LISTED TO POWER, LOOP CONTROL, GATE, CONTROL, ETC..
14	DISCONNECT AND REMOVE METER PEDESTAL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. CAP HOLES IN CONCRETE.
15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING PANEL TO REMAIN.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

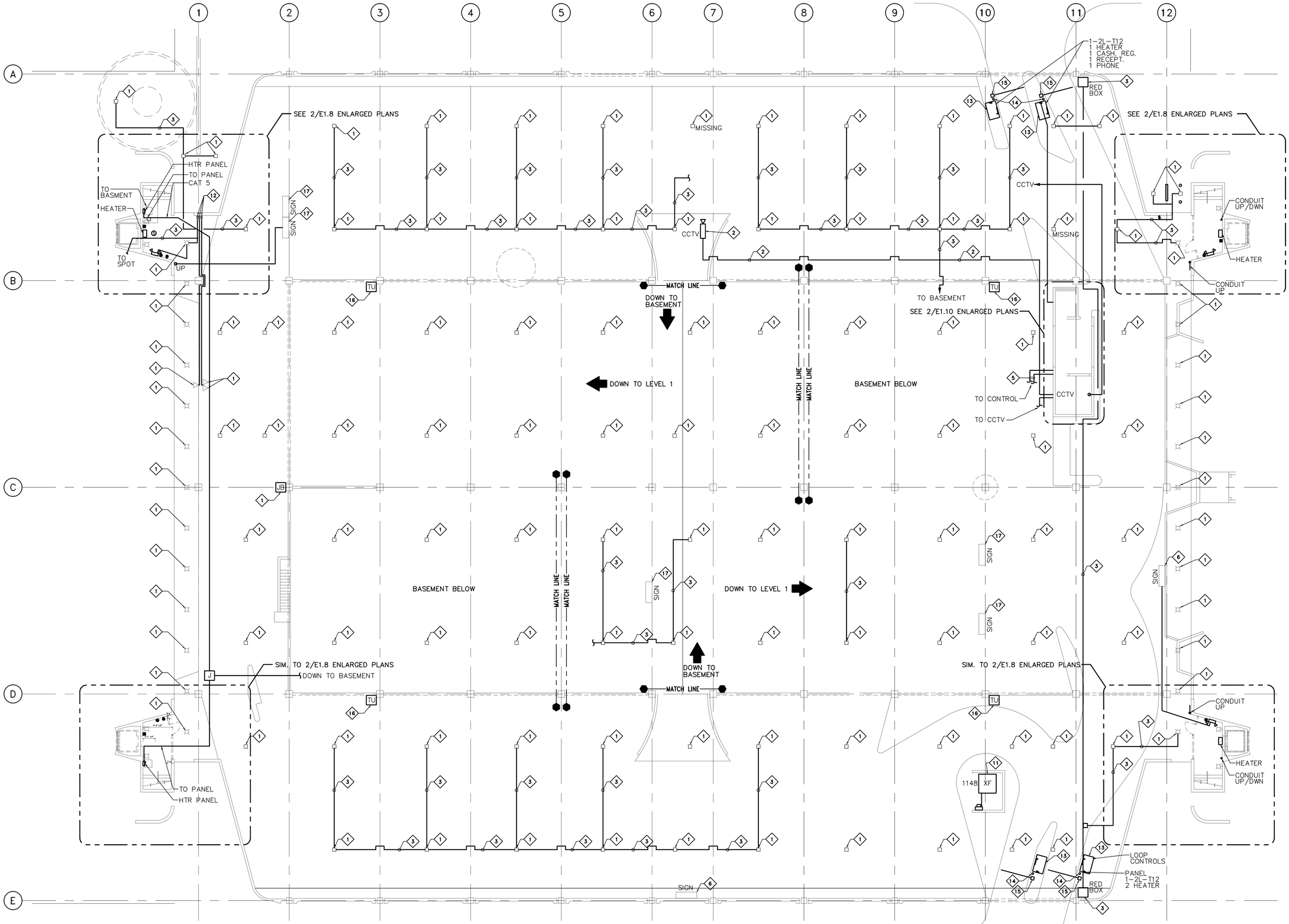
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: BASEMENT LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.1

SHEET 1 OF 1



1 / E1.2 GROUND LEVEL – ELECTRICAL DEMOLITION

3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
6	EXISTING POWERED WAYFINDING SIGNS TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
7	EXISTING HEATER TO REMAIN.
8	EXISTING SWITCH LOCATION TO REMAIN.
9	EXISTING RECEPTACLE TO REMAIN.
10	DISCONNECT AND REMOVE EXISTING DOUBLE PANEL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE AND TO BRANCH CIRCUITS.
11	TRANSFORMER AND METER TO REMAIN.
12	DISCONNECT AND REMOVE EXISTING SWITCH TO LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
13	DISCONNECT AND REMOVE POWER AND CONTROLS TO BOOTHS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. INCLUDES BUT NOT LISTED TO POWER, LOOP CONTROL, GATE, CONTROL, ETC..
14	DISCONNECT AND REMOVE METER PEDESTAL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. CAP HOLES IN CONCRETE.
15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

REV. #	DATE	DESCRIPTION	BY
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STATUS/REVISIONS

Engineers·Architects·Consultants
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PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: GROUND LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.2

SHEET 1 OF 1

1 E1.3 SECOND LEVEL – ELECTRICAL DEMOLITION

3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
6	EXISTING POWERED WAYFINDING SIGNS TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
7	EXISTING HEATER TO REMAIN.
8	EXISTING SWITCH LOCATION TO REMAIN.
9	EXISTING RECEPTACLE TO REMAIN.
10	DISCONNECT AND REMOVE EXISTING DOUBLE PANEL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE AND TO BRANCH CIRCUITS.
11	TRANSFORMER AND METER TO REMAIN.
12	DISCONNECT AND REMOVE EXISTING SWITCH TO LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
13	DISCONNECT AND REMOVE POWER AND CONTROLS TO BOOTHS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. INCLUDES BUT NOT LISTED TO POWER, LOOP CONTROL, GATE, CONTROL, ETC..
14	DISCONNECT AND REMOVE METER PEDESTAL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. CAP HOLES IN CONCRETE.
15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING FIXTURE TO REMAIN. REFER TO NEW PLANS FOR MODIFICATION.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

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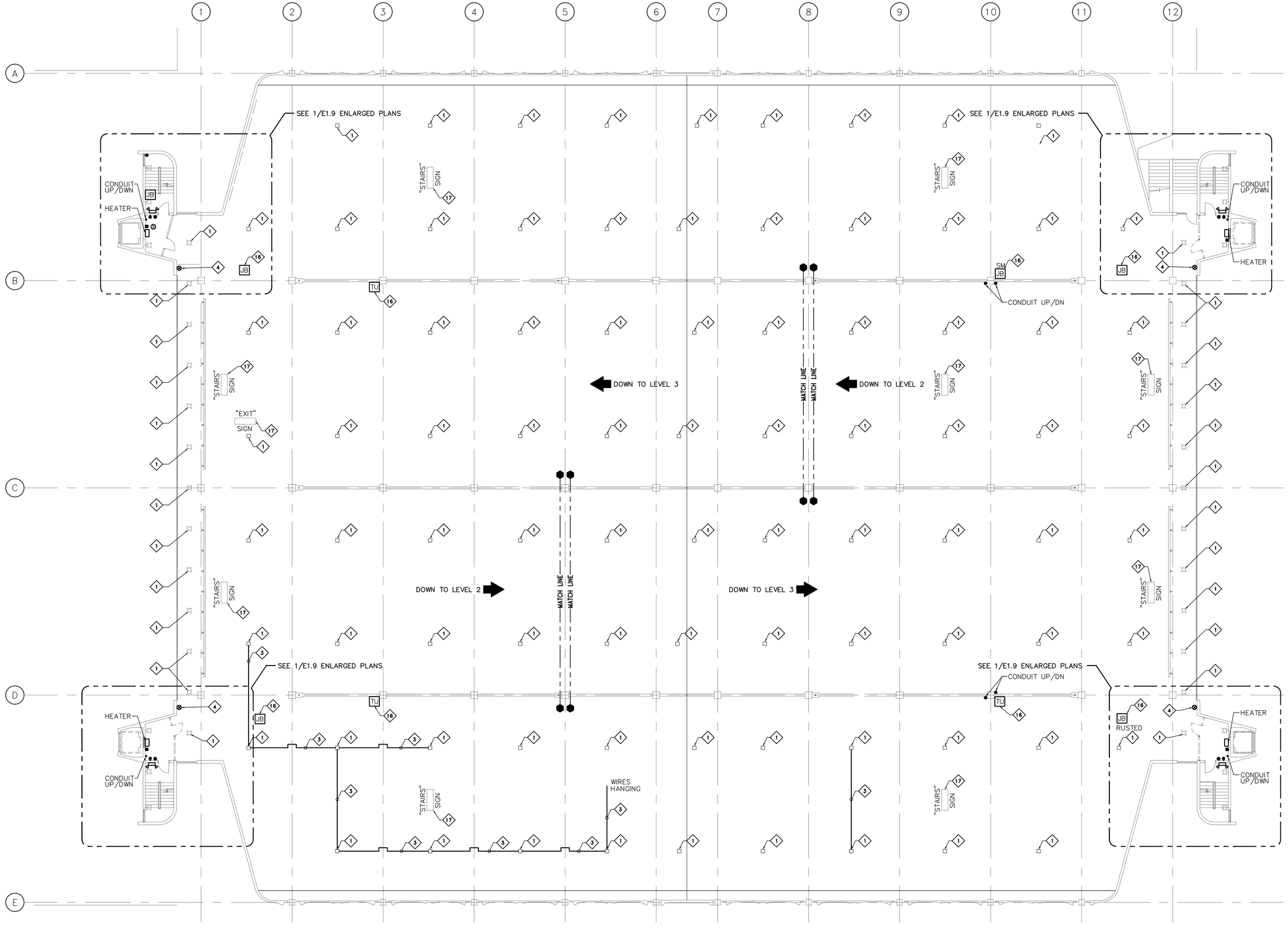
DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SECOND LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.3

SHEET 1 OF 1



THIRD LEVEL – ELECTRICAL DEMOLITION

1 / E1.4 3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
6	EXISTING POWERED WAYFINDING SIGNS TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
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9	EXISTING RECEPTACLE TO REMAIN.
10	DISCONNECT AND REMOVE EXISTING DOUBLE PANEL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE AND TO BRANCH CIRCUITS.
11	TRANSFORMER AND METER TO REMAIN.
12	DISCONNECT AND REMOVE EXISTING SWITCH TO LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
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14	DISCONNECT AND REMOVE METER PEDESTAL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. CAP HOLES IN CONCRETE.
15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING FIXTURE TO REMAIN. REFER TO NEW PLANS FOR MODIFICATION.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

REV. #	DATE	DESCRIPTION	BY
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STATUS/REVISIONS

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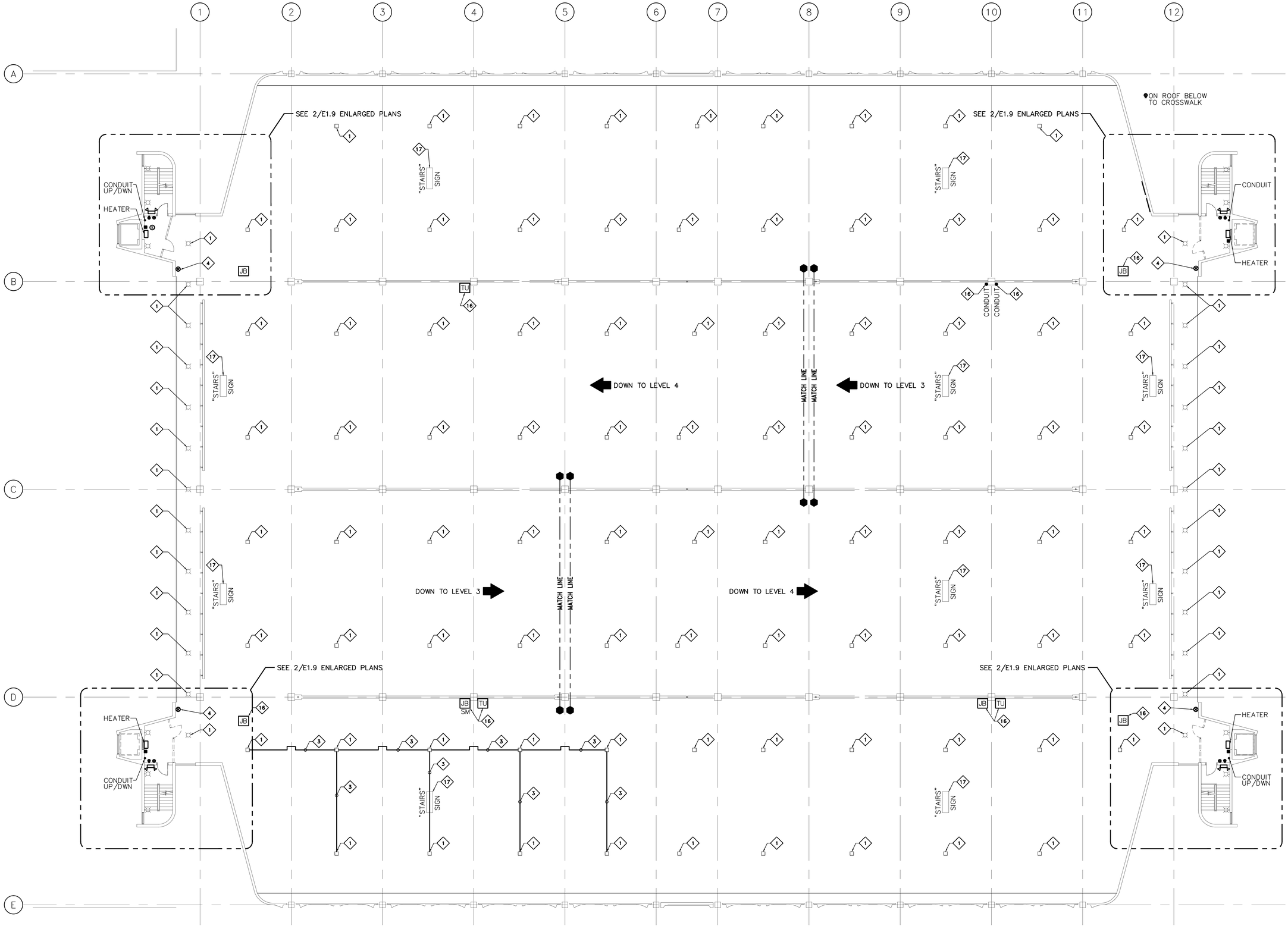
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: THIRD LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.4

SHEET 1 OF 1



N 1 E1.5 FOURTH LEVEL – ELECTRICAL DEMOLITION

3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
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15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING FIXTURE TO REMAIN. REFER TO NEW PLANS FOR MODIFICATION.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

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	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

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DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FOURTH LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.5

SHEET 1 OF 1

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
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15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING FIXTURE TO REMAIN. REFER TO NEW PLANS FOR MODIFICATION.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

FIFTH LEVEL – ELECTRICAL DEMOLITION

1 / E1.6 — 3/32" = 1'-0"

REV. #	DATE	DESCRIPTION	BY
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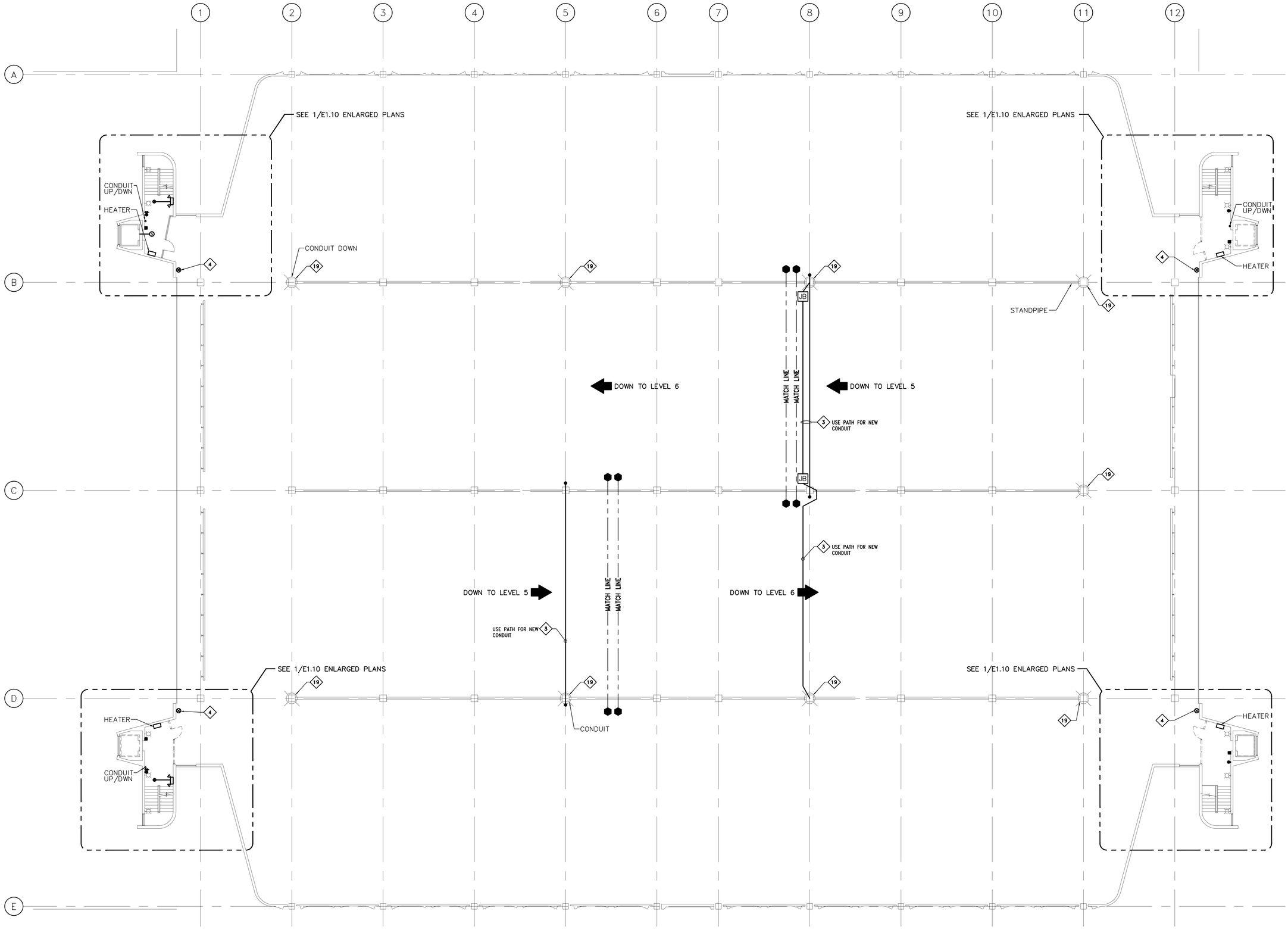
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FIFTH LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.6

SHEET 1 OF 1



N 1 E1.7 SIXTH LEVEL – ELECTRICAL DEMOLITION

3/32" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. SEAL ALL OPENINGS.
2	DISCONNECT AND REMOVE CCTV WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
3	DISCONNECT CONDUIT AND WIRE TO SOURCE.
4	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
5	DISCONNECT AND REMOVE CONTACTOR BOXES WITH ALL ASSOCIATED CONDUIT AND WIRE TO OFFICE CONTROL BOX.
6	EXISTING POWERED WAYFINDING SIGNS TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
7	EXISTING HEATER TO REMAIN.
8	EXISTING SWITCH LOCATION TO REMAIN.
9	EXISTING RECEPTACLE TO REMAIN.
10	DISCONNECT AND REMOVE EXISTING DOUBLE PANEL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE AND TO BRANCH CIRCUITS.
11	TRANSFORMER AND METER TO REMAIN.
12	DISCONNECT AND REMOVE EXISTING SWITCH TO LIGHT FIXTURE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
13	DISCONNECT AND REMOVE POWER AND CONTROLS TO BOOTHS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. INCLUDES BUT NOT LISTED TO POWER, LOOP CONTROL, GATE, CONTROL, ETC..
14	DISCONNECT AND REMOVE METER PEDESTAL WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE. CAP HOLES IN CONCRETE.
15	EXIT GATES, DISCONNECT AND REMOVE WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
16	DISCONNECT AND REMOVE ALL TU CABINETS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
17	DISCONNECT AND REMOVE POWER AND SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
18	EXISTING FIXTURE TO REMAIN. REFER TO NEW PLANS FOR MODIFICATION.
19	DISCONNECT AND REMOVE EXISTING FIXTURE, POLE AND BASE TO REMAIN. REWIRE AND CONDUIT FROM PANEL AS SHOWN.

GENERAL DEMOLITION NOTES:

1. ALL OPEN BOXES SHALL BE COVERED AND SEALED.
2. ALL CONDUIT ENTERING SLAB SHALL BE CAPPED, PLUGGED, ETC...

REV. #	DATE	DESCRIPTION	BY
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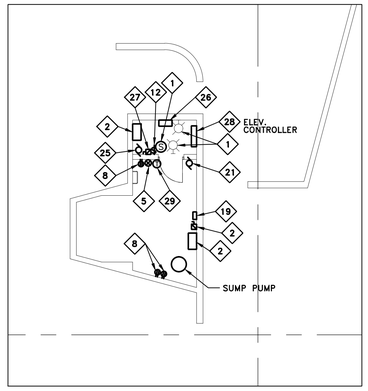
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

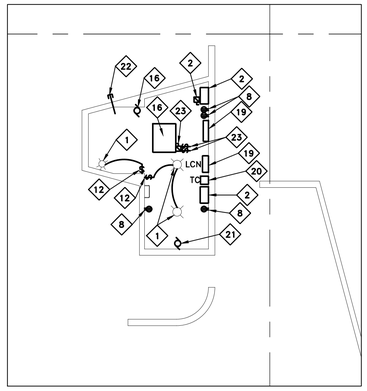
SHEET TITLE: SIXTH LEVEL ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.7

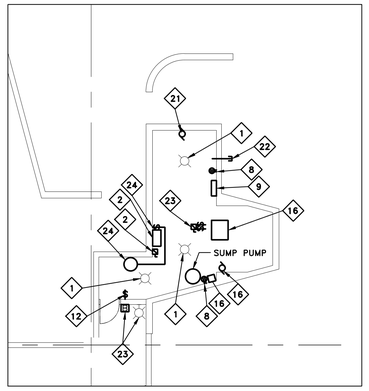
SHEET 1 OF 1



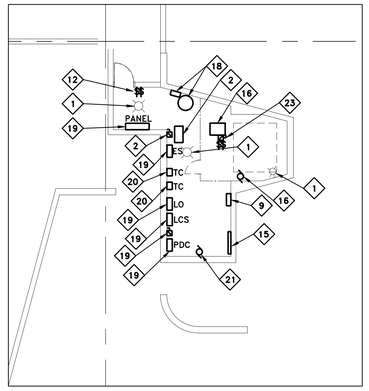
NORTHEAST



NORTHWEST



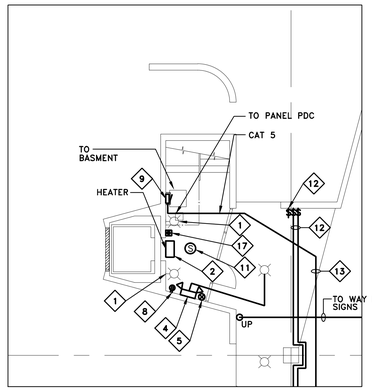
SOUTHEAST



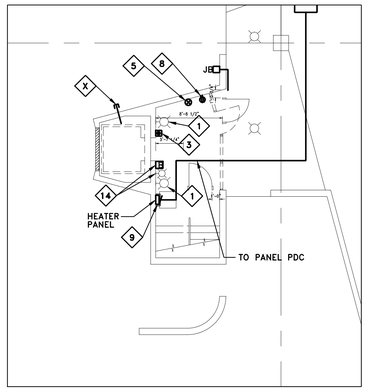
SOUTHWEST

1 / E1.8 BASEMENT LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

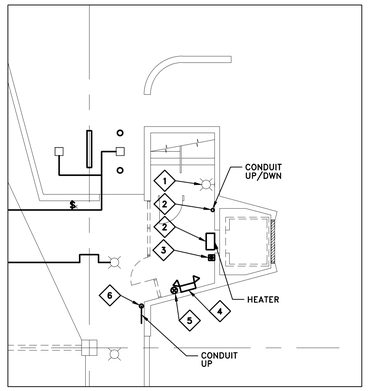
1/8" = 1'-0"



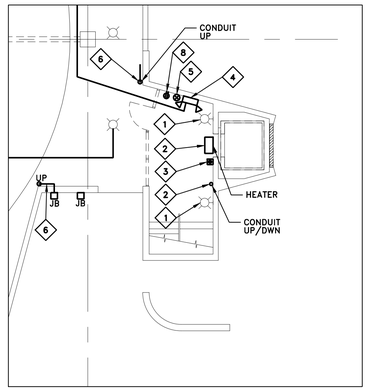
NORTHEAST



NORTHWEST



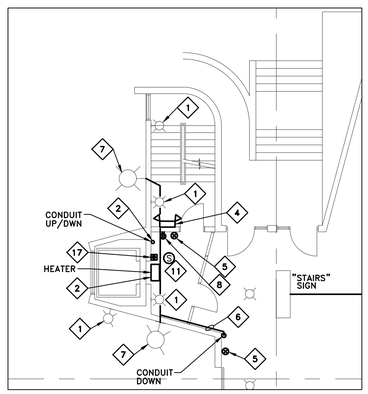
SOUTHEAST



SOUTHWEST

2 / E1.8 GROUND LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

1/8" = 1'-0"



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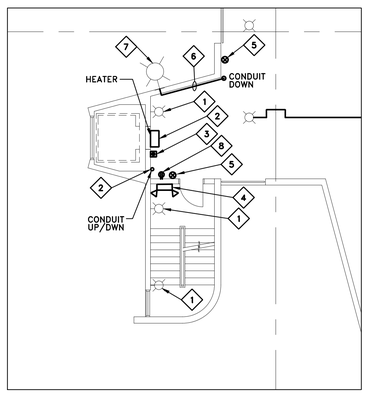

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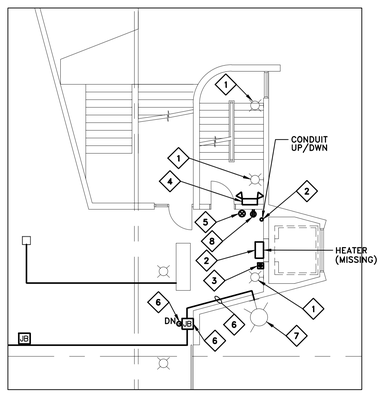

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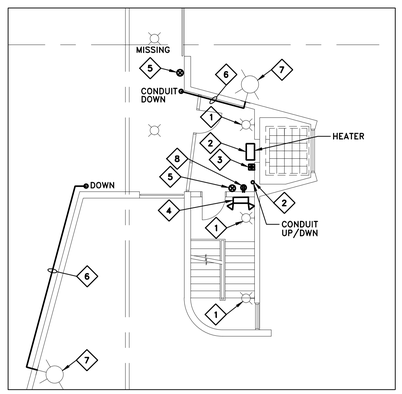

SOUTHWEST

3 / E1.8 SECOND LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

1/8" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE LIGHT FIXTURES WITH CONDUIT AND WIRE. PROVIDE COVER PLATE OVER BOX.
2	DISCONNECT AND REMOVE HEATER AND FEEDER WITH ALL ASSOCIATED CONDUIT AND WIRE.
3	DISCONNECT AND REMOVE CONTROLS FOR ELEVATOR. PROVIDE SS PLATE OVER OPENING.
4	DISCONNECT AND REMOVE EMERGENCY LIGHT WITH ALL ASSOCIATED CONDUIT AND WIRE.
5	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE.
6	DISCONNECT AND REMOVE WIRE TO SCONCE FIXTURE.
7	EXISTING LIGHT FIXTURE TO REMAIN. RECIRCUIT.
8	DISCONNECT AND REPLACE EXISTING RECEPTACLE.
9	DISCONNECT AND REMOVE HEATER PANEL WITH ASSOCIATED CONDUIT AND WIRE TO PDC.
10	DISCONNECT AND REMOVE SWITCH FOR FLOOD LIGHTS ON ROOF. REWIRE AS SHOWN ON NEW DRAWINGS.
11	EXISTING SMOKE DETECTOR TO REMAIN.
12	DISCONNECT AND REMOVE LIGHT SWITCHES WITH ASSOCIATED CONDUIT AND WIRE.
13	CAT 5 CABLE.
14	DISCONNECT EXISTING RED LIGHT AND BELL FOR ELEVATOR WITH ALL ASSOCIATED CONDUIT AND WIRE.
15	TELEPHONE BOARD TO REMAIN.
16	ELEVATOR MOTOR, REMOVE ALL ASSOCIATED CONDUIT AND WIRE TO CONTROLLER AND UP TO EACH FLOOR.
17	ELEVATOR CONTROLS TO REMAIN.
18	DISCONNECT CIRCUIT FROM SUMP PUMP CONTROLLER AND REFEED AS REQUIRED.
19	DISCONNECT AND REMOVE ALL EXISTING PANELS AND FEEDERS. MAIN FEEDER TO PDC TO REMAIN TO BE REUSED.
20	DISCONNECT AND REMOVE TIME CLOCKS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
21	DISCONNECT AND REMOVE EF AND CIRCUIT WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
22	EXISTING CONDUIT TO REMAIN FOR POWER TO GATE OPERATORS.
23	DISCONNECT AND REMOVE ELEVATOR FDS AND SWITCHES FOR ELEVATOR CONTROL AND CAR LIGHTS WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
24	WATER HEATER TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
25	EXISTING EF TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
26	SMALL BREAKER PANEL FOR CAR LIGHTS, EXISTING TO REMAIN, RECIRCUIT.
27	EXISTING ELEVATOR DISCONNECT TO REMAIN.
28	ELEVATOR CONTROLLER TO REMAIN WITH ALL ASSOCIATED CONDUIT AND WIRE.
29	DISCONNECT EXISTING THERMOSTAT WITH ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.

GENERAL DEMOLITION NOTES:

1. ALL CONDUITS TO BE TRACED. ALL CIRCUITS NOT SHOWN ON NEW PLANS THAT ARE BEING USED MUST BE RECONNECTED TO NEW PANELS.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

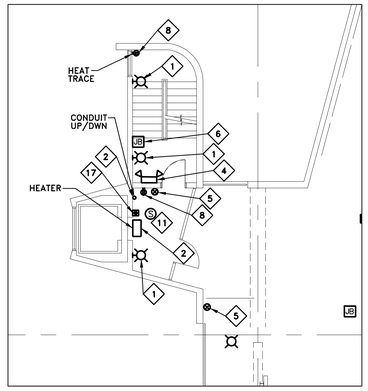
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.8

SHEET 1 OF 1



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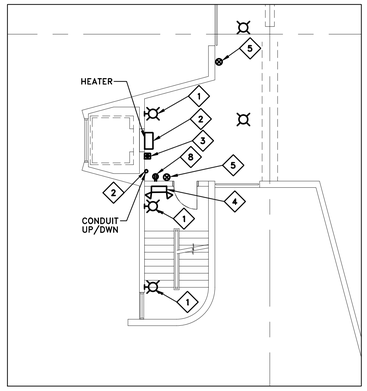

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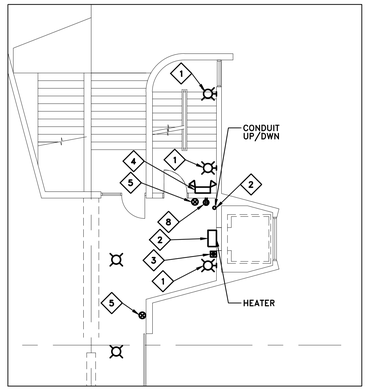

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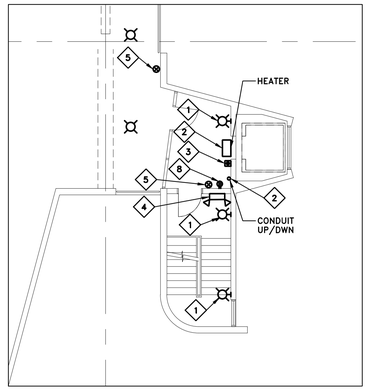
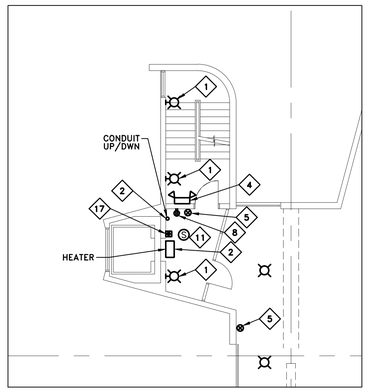


SOUTHWEST

1 / E1.9 THIRD LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

1/8" = 1'-0"



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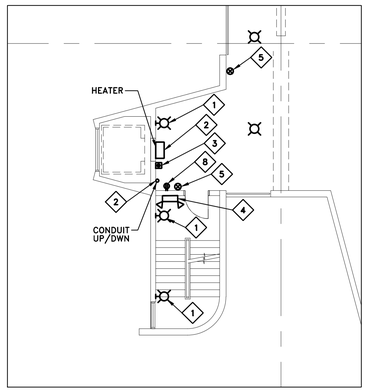

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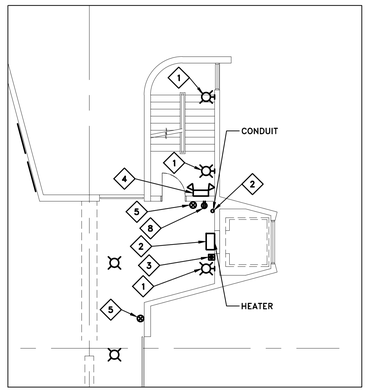

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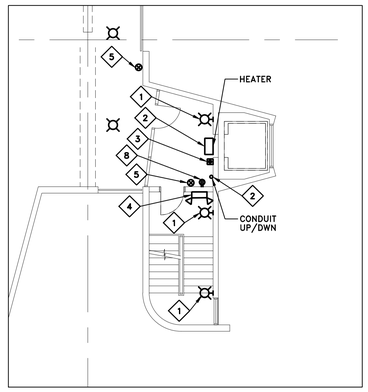
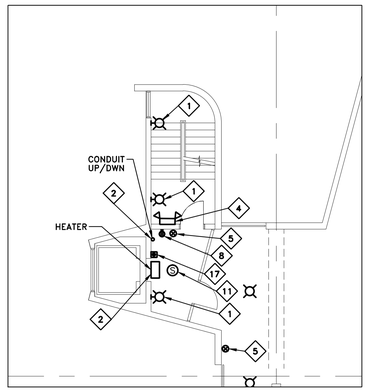


SOUTHWEST

2 / E1.9 FOURTH LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

1/8" = 1'-0"



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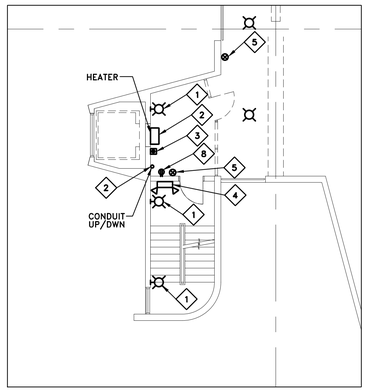

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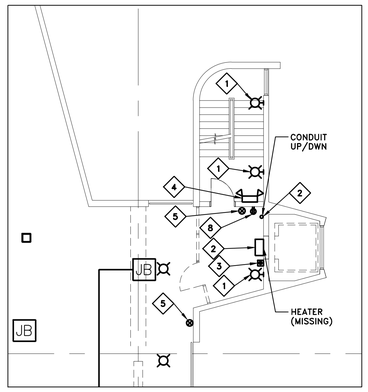

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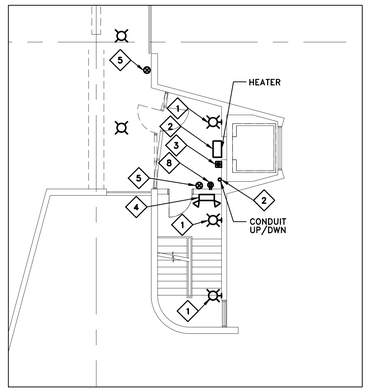

SOUTHWEST

3 / E1.9 FIFTH LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

1/8" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE LIGHT FIXTURES WITH CONDUIT AND WIRE. PROVIDE COVER PLATE OVER BOX.
2	DISCONNECT AND REMOVE HEATER AND FEEDER WITH ALL ASSOCIATED CONDUIT AND WIRE.
3	DISCONNECT AND REMOVE CONTROLS FOR ELEVATOR. PROVIDE SS PLATE OVER OPENING.
4	DISCONNECT AND REMOVE EMERGENCY LIGHT WITH ALL ASSOCIATED CONDUIT AND WIRE.
5	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE.
6	DISCONNECT AND REMOVE WIRE TO SCONCE FIXTURE.
7	EXISTING LIGHT FIXTURE TO REMAIN. RECIRCUIT.
8	DISCONNECT AND REPLACE EXISTING RECEPTACLE.
9	DISCONNECT AND REMOVE HEATER PANEL WITH ASSOCIATED CONDUIT AND WIRE TO PDC.
10	DISCONNECT AND REMOVE SWITCH FOR FLOOD LIGHTS ON ROOF. REWIRE AS SHOWN ON NEW DRAWINGS.
11	EXISTING SMOKE DETECTOR TO REMAIN.
12	DISCONNECT AND REMOVE LIGHT SWITCHES WITH ASSOCIATED CONDUIT AND WIRE.
13	CAT 5 CABLE.
14	DISCONNECT EXISTING RED LIGHT AND BELL FOR ELEVATOR WITH ALL ASSOCIATED CONDUIT AND WIRE.
15	TELEPHONE BOARD TO REMAIN.
16	ELEVATOR MOTOR.
17	ELEVATOR CONTROLS TO REMAIN.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

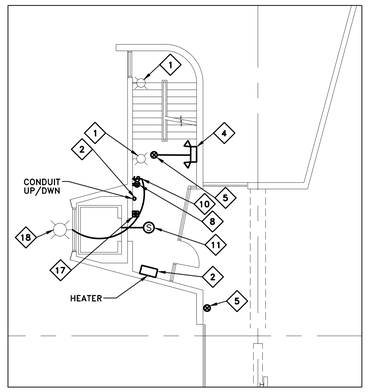
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.9

SHEET 1 OF 1



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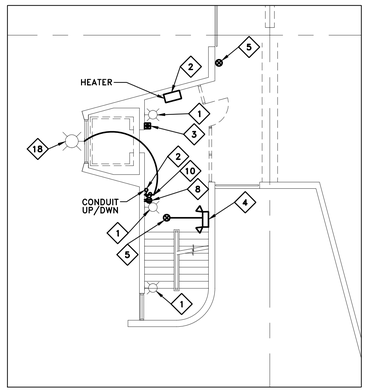

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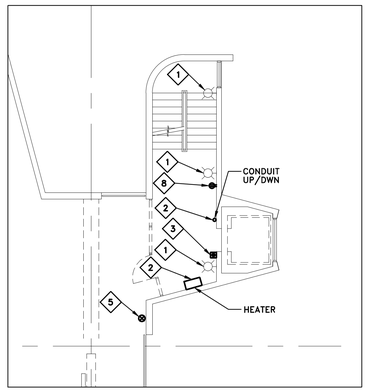

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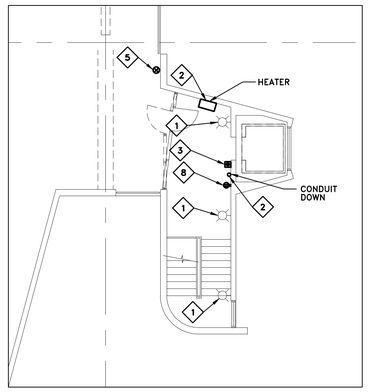
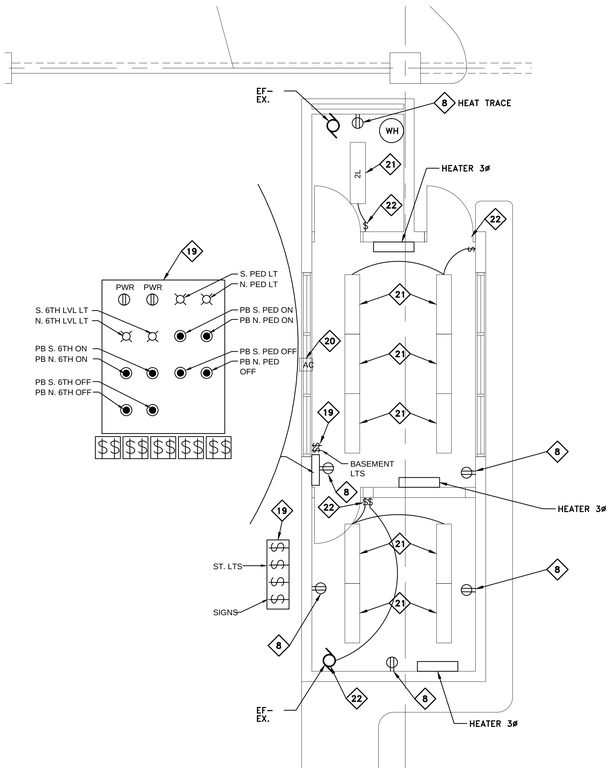


SOUTHWEST

1 SIXTH LEVEL STAIR/ELEVATOR TOWERS – DEMOLITION

E1.10 1/8" = 1'-0"



ELECTRICAL DEMOLITION

2 GROUND LEVEL OFFICE/STORAGE SOUTH EAST

E1.10 1/4" = 1'-0"

KEYED DEMOLITION NOTES:

TAG	DESCRIPTION
1	DISCONNECT AND REMOVE LIGHT FIXTURES WITH CONDUIT AND WIRE. PROVIDE COVER PLATE OVER BOX.
2	DISCONNECT AND REMOVE HEATER AND FEEDER WITH ALL ASSOCIATED CONDUIT AND WIRE.
3	DISCONNECT AND REMOVE CONTROLS FOR ELEVATOR. PROVIDE SS PLATE OVER OPENING.
4	DISCONNECT AND REMOVE EMERGENCY LIGHT WITH ALL ASSOCIATED CONDUIT AND WIRE.
5	DISCONNECT AND REMOVE EXIT SIGN WITH ALL ASSOCIATED CONDUIT AND WIRE.
6	DISCONNECT AND REMOVE WIRE TO SCONCE FIXTURE.
7	EXISTING LIGHT FIXTURE TO REMAIN. RECIRCUIT.
8	DISCONNECT AND REPLACE EXISTING RECEPTACLE.
9	DISCONNECT AND REMOVE HEATER PANEL WITH ASSOCIATED CONDUIT AND WIRE TO PDC.
10	DISCONNECT AND REMOVE SWITCH FOR FLOOD LIGHTS ON ROOF. REWIRE AS SHOWN ON NEW DRAWINGS.
11	EXISTING SMOKE DETECTOR TO REMAIN.
12	DISCONNECT AND REMOVE LIGHT SWITCHES WITH ASSOCIATED CONDUIT AND WIRE.
13	CAT 5 CABLE.
14	DISCONNECT EXISTING RED LIGHT AND BELL FOR ELEVATOR WITH ALL ASSOCIATED CONDUIT AND WIRE.
15	TELEPHONE BOARD TO REMAIN.
16	ELEVATOR MOTOR, REMOVE ALL ASSOCIATED CONDUIT AND WIRE TO CONTROLLER AND UP TO EACH FLOOR.
17	ELEVATOR CONTROLS TO REMAIN.
18	EXISTING LIGHT FIXTURES TO REMAIN. RECIRCUIT AS SHOWN ON NEW PLANS.
19	DISCONNECT AND REMOVE EXISTING LIGHTING CONTROL WITH ALL SWITCHES AND ALL ASSOCIATED CONDUIT AND WIRE TO SOURCE.
20	EXISTING AC UNIT TO REMAIN.
21	EXISTING LIGHTING TO REMAIN, DISCONNECT BALLASTS AND LAMPS, REPLACE WITH NEW.
22	EXISTING EXHAUST FAN TO REMAIN.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

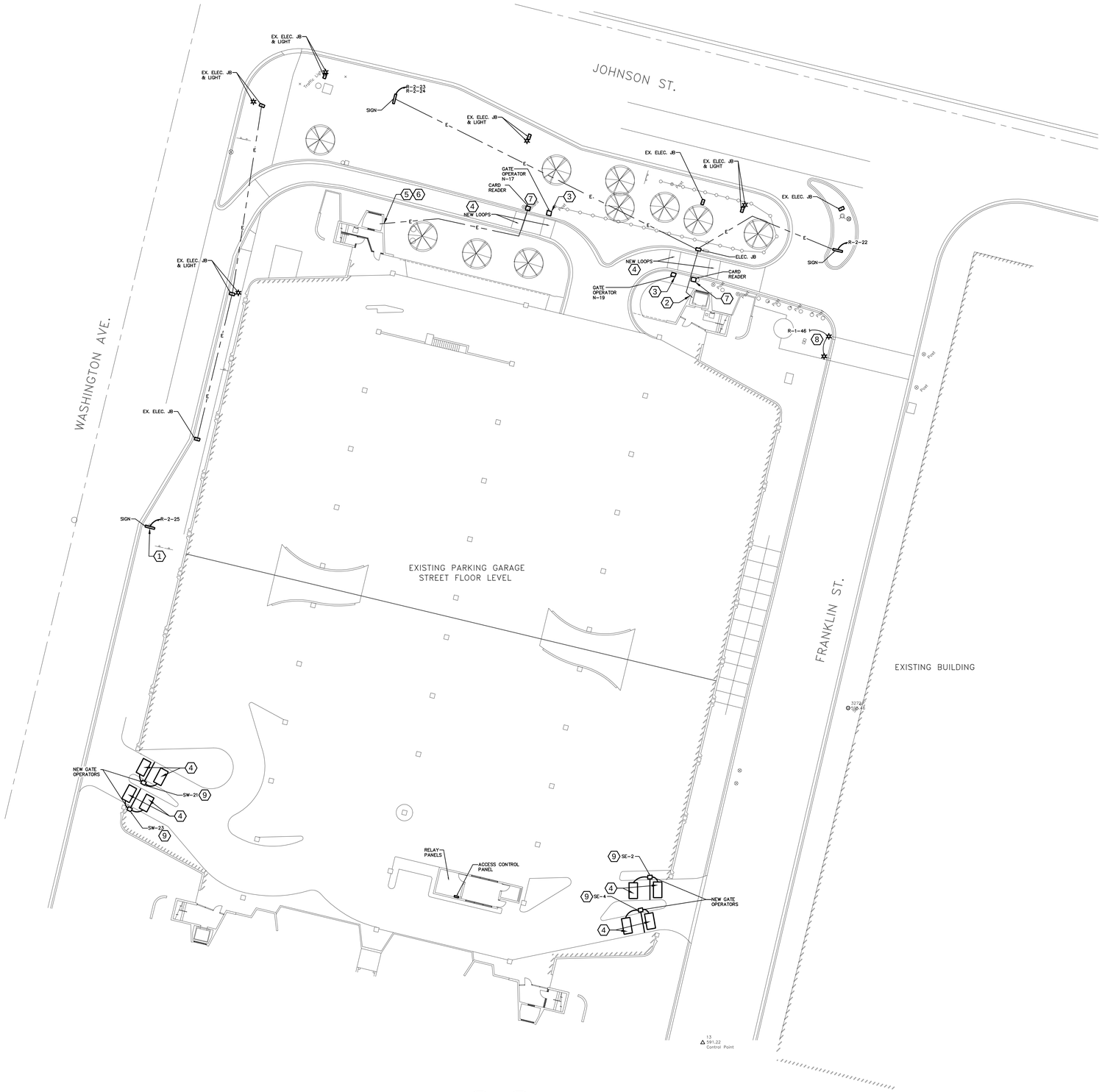
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

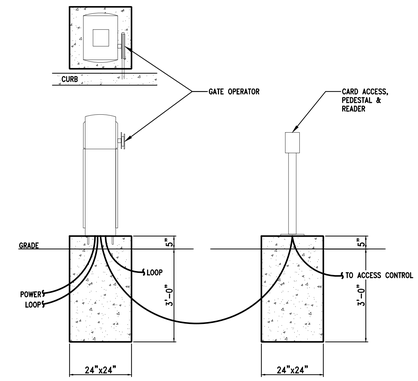
SHEET TITLE: ENLARGED PLANS ELECTRICAL DEMOLITION

DRAWING NUMBER: E1.10

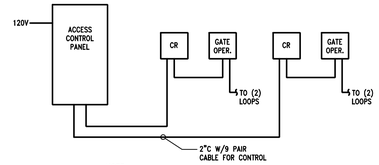
SHEET 1 OF 1



1 ES2.1 ELECTRICAL SITE
SCALE: 1"=20'-0"



2 ES2.1 GATE OPERATOR BASE DETAIL
SCALE: NONE



NOTE:

ALL CONDUIT AND CONTROL WIRE TO BE VERIFIED WITH SUPPLIER OF GATE OPERATOR AND ACCESS CONTROL.

3 ES2.1 ACCESS CONTROL RISER DIAGRAM
SCALE: NONE

EQUIPMENT:

PANEL: DSX1042 CONTROLLER WITH SOFTWARE
READER: HID PROX READER
CARDS: 150
PEDESTAL: 36" YELLOW, #36-YEL-APD BY APD
#HOOD-CS-6x6
(PEDESTALCEO.COM)
GATE OPERATOR: AMG 1700 BY AMANNO McGANN'S
GATE ARMS: TO MATCH EXISTING
REFER TO:
JEFF TIMAR
TRAFFIC AND SAFETY CONTROL SYSTEMS
(248) 361-3775

KEYED NOTES:

TAG	DESCRIPTION
1	TRACE CIRCUIT IN FIELD. RECIRCUIT TO LCP-B PANEL.
2	CONDUIT ENTRANCE LOCATION. ROUTE TO RELAY PANEL ON SOUTH END.
3	EXISTING GATE OPERATOR RELOCATED TO NEW LOCATION.
4	PROVIDE NEW LOOP IN CONCRETE.
5	CONDUIT ACCESS FOR POWER TO GATE OPERATOR AND CARD ACCESS.
6	PROVIDE A 1" CONDUIT FROM CARD READER TO CONTROL PANEL.
7	PROVIDE A SECOND 1" CONDUIT TO CARD READER THROUGH NE BASEMENT TO ACCESS CONTROL PANEL.
8	VERIFY CIRCUITING TO EXISTING BOLLARDS. CONNECT TO NEW RELAY IN PANEL.
9	PROVIDE CONTROL CONDUIT TO ACCESS CONTROL PANEL WITH REQUIRED CABLE P-ER MANUFACTURER. VERIFY ALL REQUIREMENTS.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

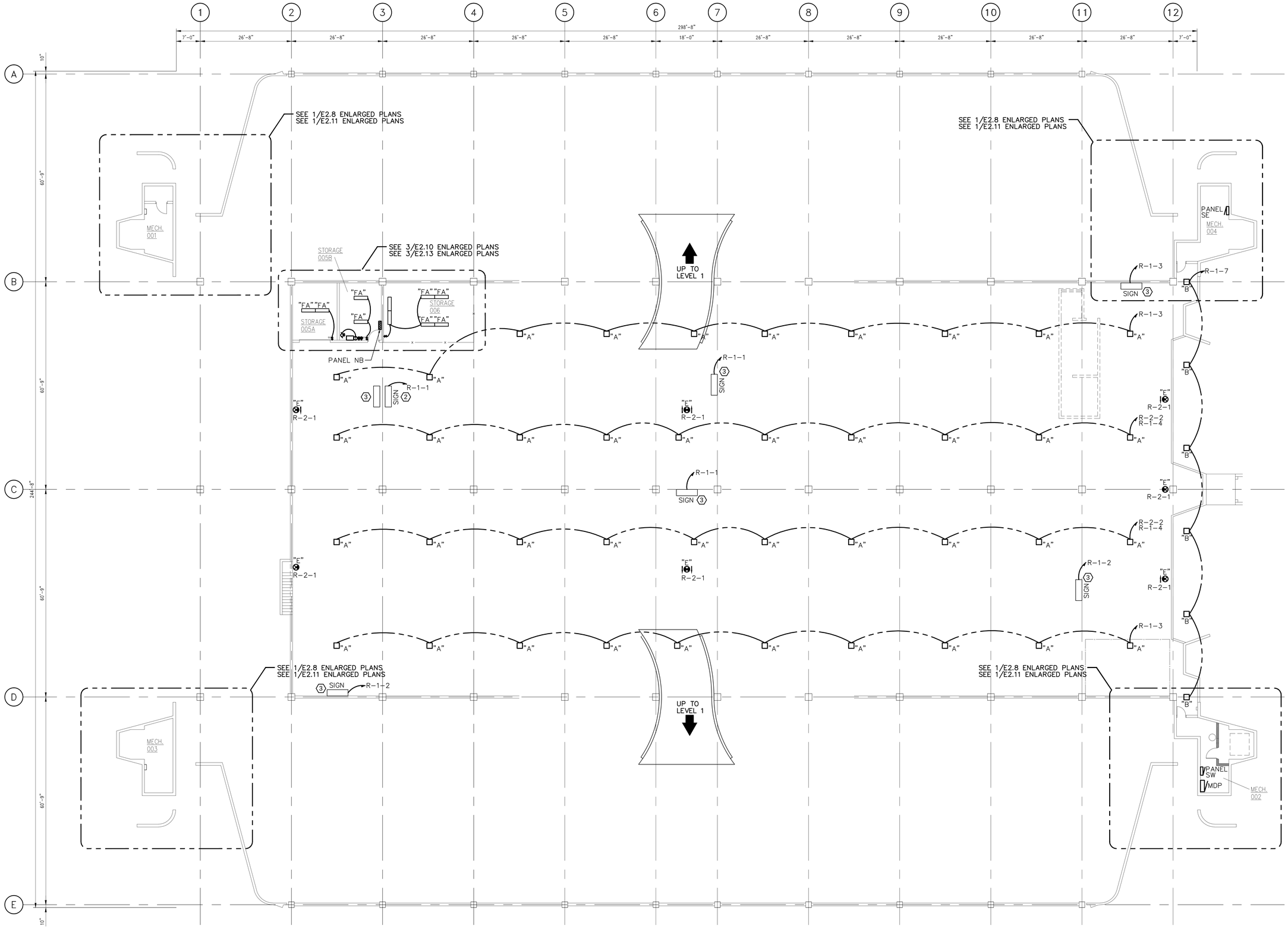
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ELECTRICAL SITE

DRAWING NUMBER: ES2.1

SHEET 1 OF 1



KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.

1/E2.1 BASEMENT LEVEL – ELECTRICAL

3/32" = 1'-0"

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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

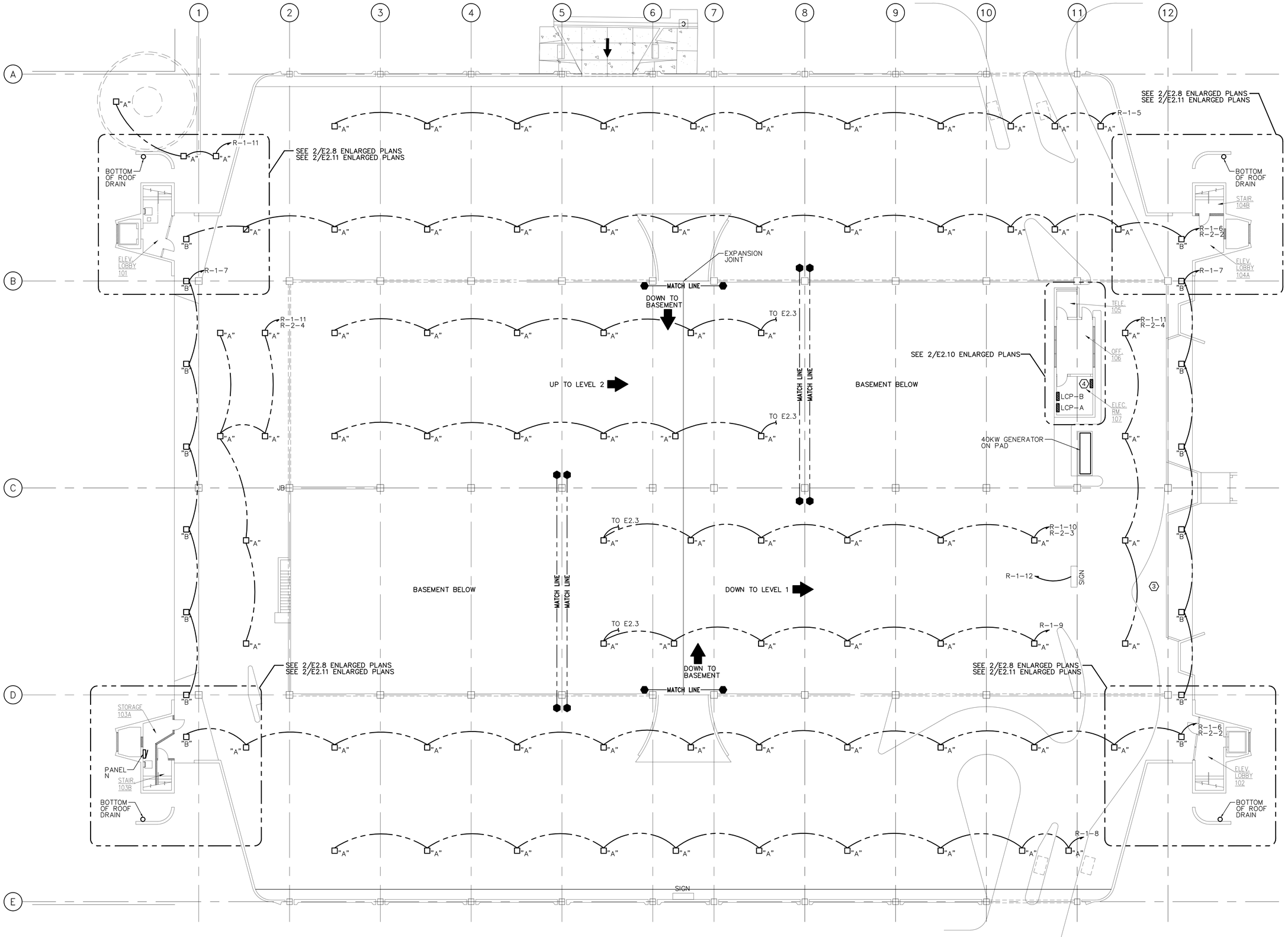
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: BASEMENT LEVEL ELECTRICAL

DRAWING NUMBER: E2.1

SHEET 1 OF 1



1 E2.2 GROUND LEVEL – ELECTRICAL
3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.
4	ACCESS CONTROL PANEL.

GENERAL NOTES:

1. ALL CONDUIT WILL BE SURFACE MOUNTED. LOCATE CONDUIT BETWEEN BEAMS AND NEAR COL. LINES "D","C" AND "B".

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

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1415 S. Washington Avenue, Saginaw, MI 48601

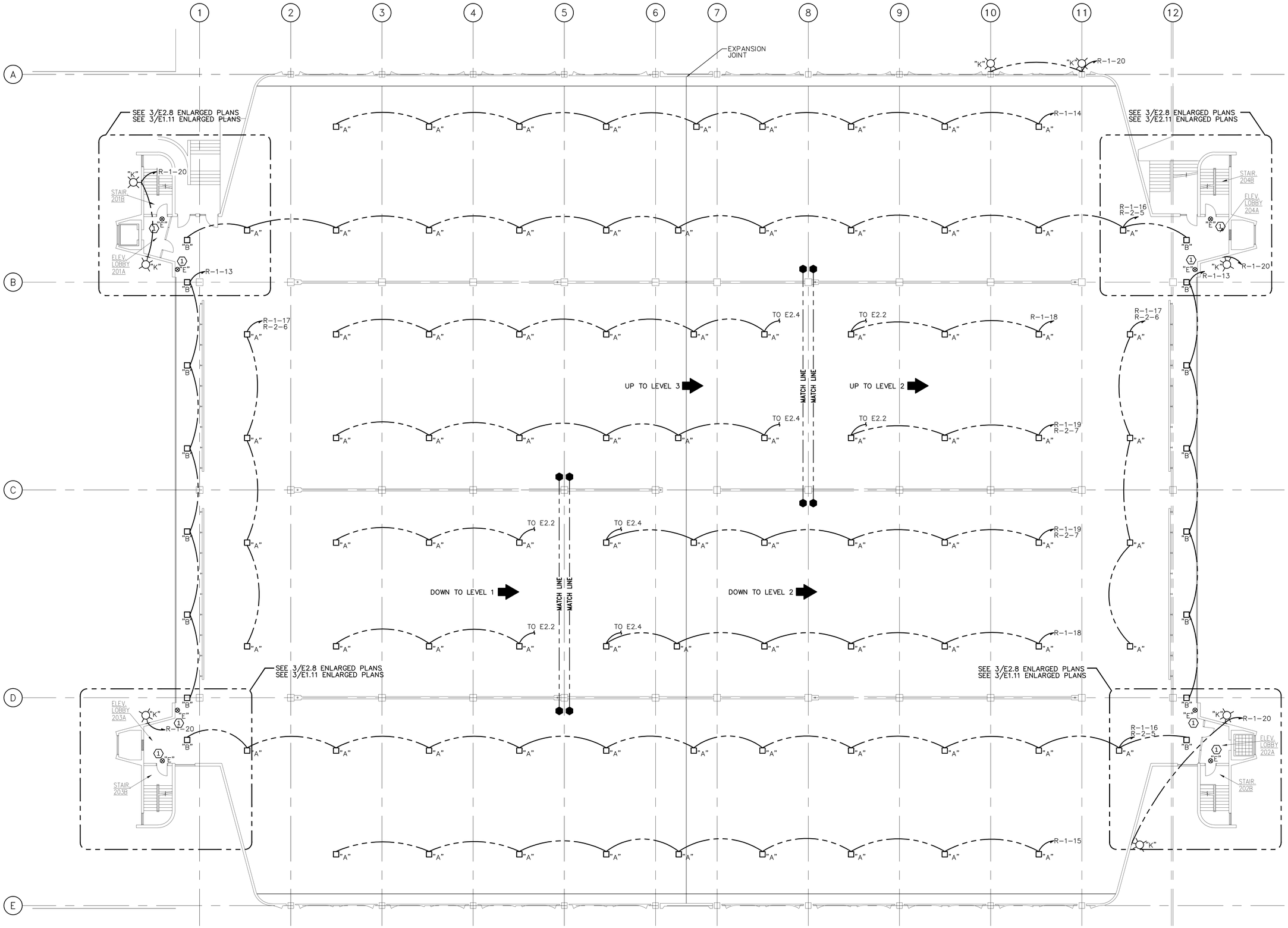
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: GROUND LEVEL ELECTRICAL

DRAWING NUMBER: E2.2

SHEET 1 OF 1



1 E2.3 SECOND LEVEL – ELECTRICAL

3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

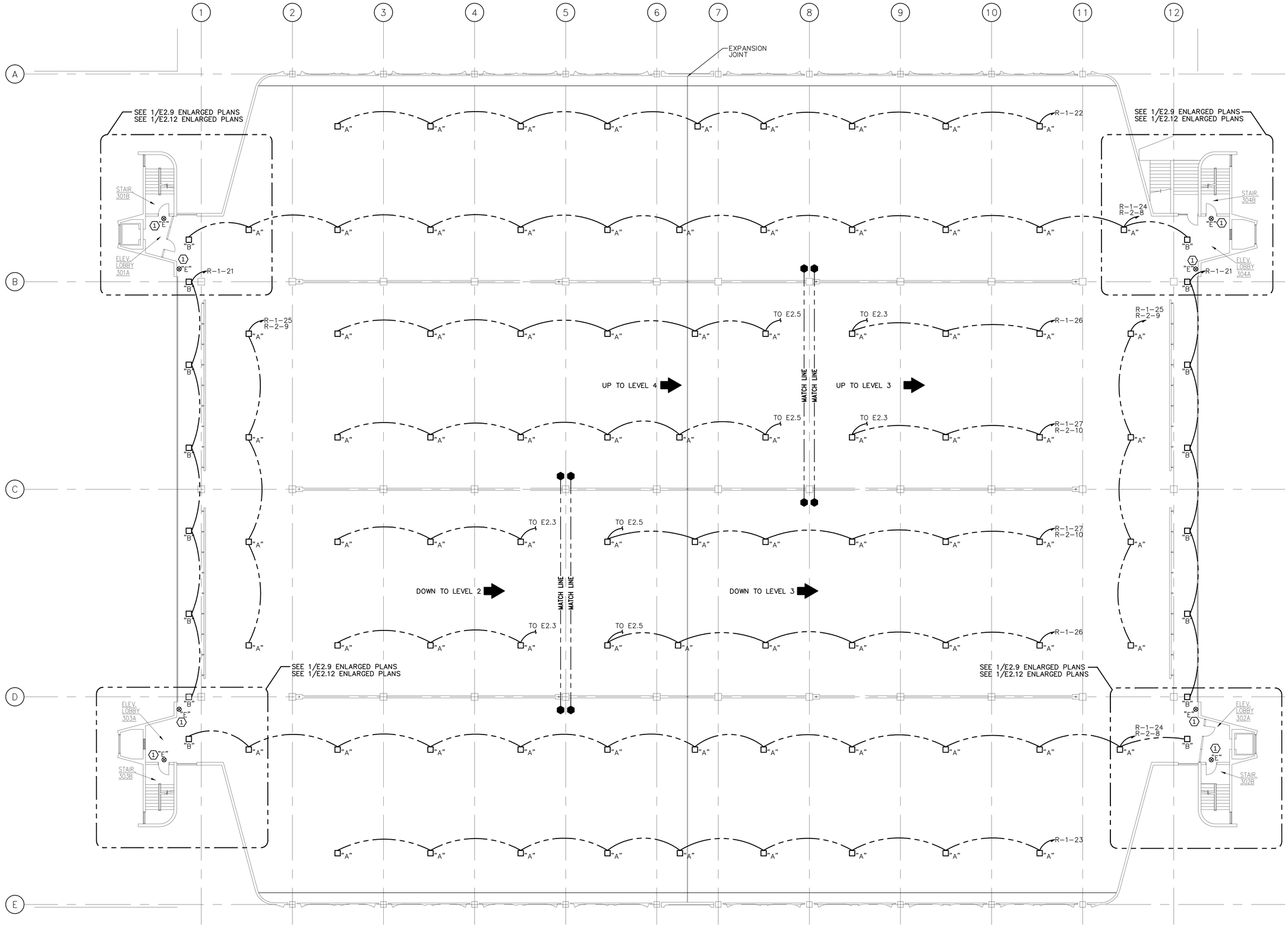
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SECOND LEVEL ELECTRICAL

DRAWING NUMBER: E2.3

SHEET 1 OF 1



1 E2.4 THIRD LEVEL – ELECTRICAL

3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
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PROJECT:
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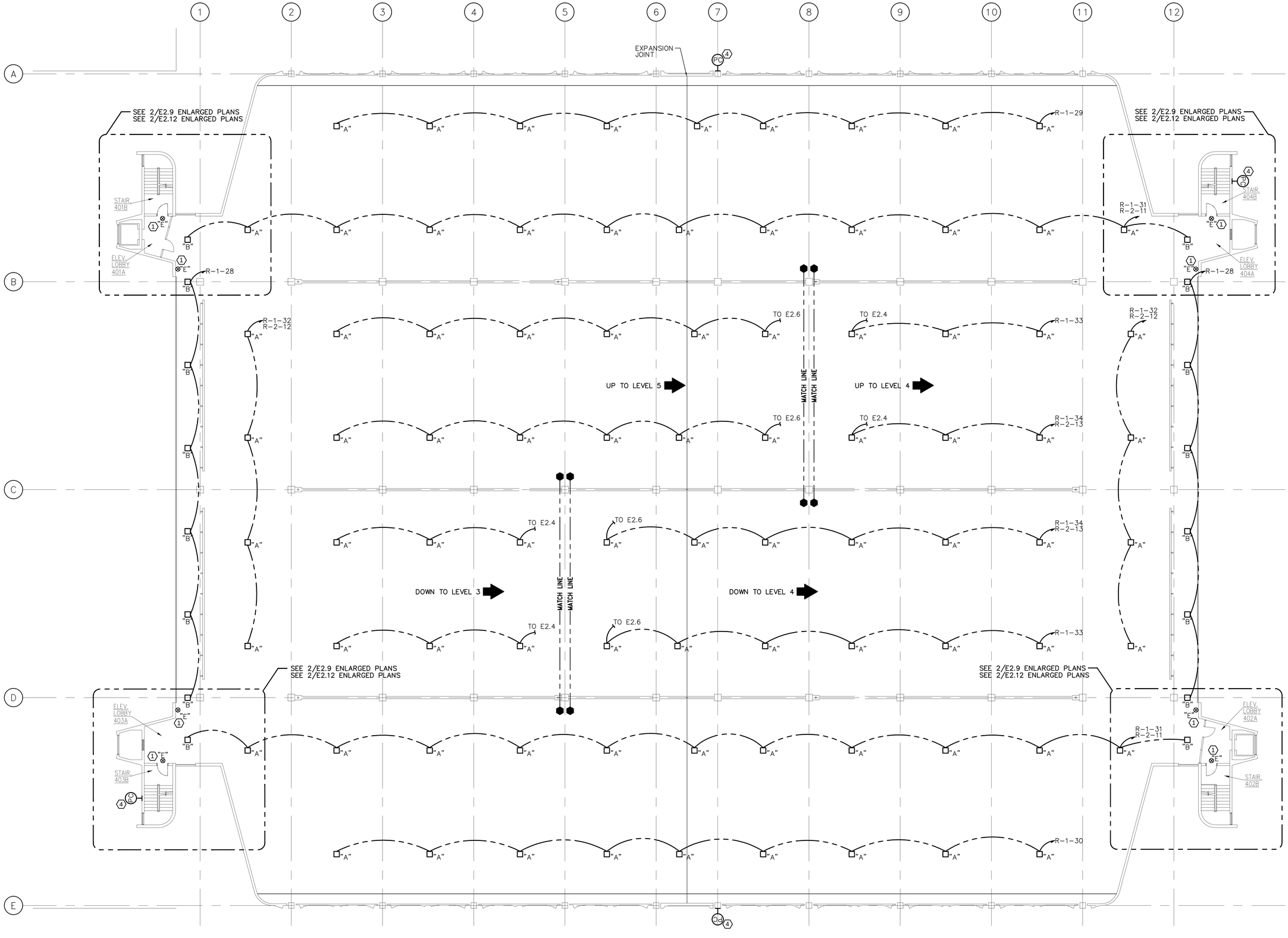
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: THIRD LEVEL ELECTRICAL

DRAWING NUMBER: E2.4

SHEET 1 OF 1



1 / E1.5 FOURTH LEVEL – ELECTRICAL

3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.
4	MOUNT PHOTOCELL AT A LOCATION DETERMINED BY MANUFACTURERS REPRESENTATIVE AND ENGINEER.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

Engineers-Architects-Consultants
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1415 S. Washington Avenue, Saginaw, MI 48601

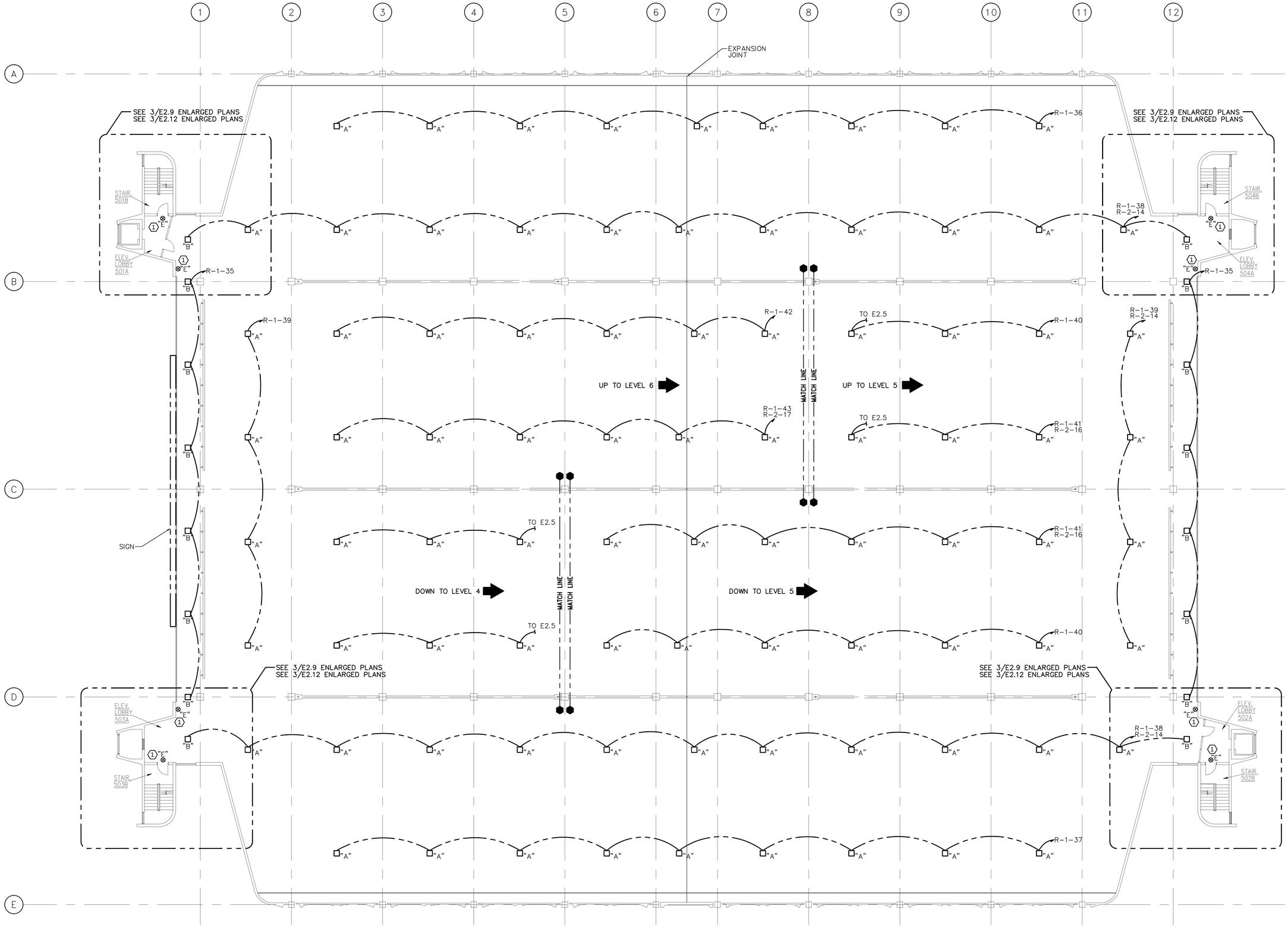
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FOURTH LEVEL ELECTRICAL

DRAWING NUMBER: E2.5

SHEET 1 OF 1



1 E2.6 FIFTH LEVEL – ELECTRICAL
3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

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1415 S. Washington Avenue, Saginaw, MI 48601

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DOW EVENT CENTER
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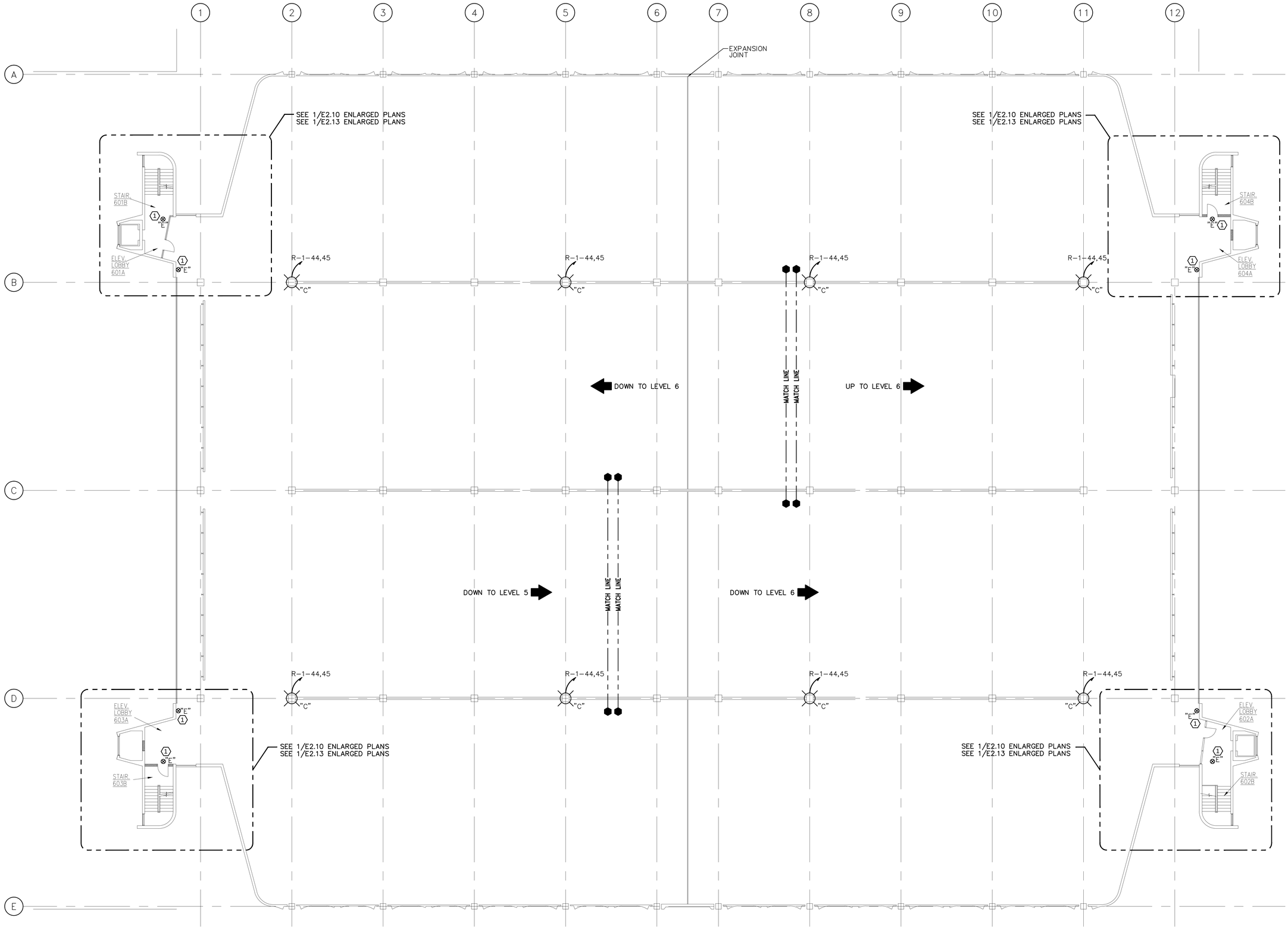
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: FIFTH LEVEL ELECTRICAL

DRAWING NUMBER: E2.6

SHEET 1 OF 1



N 1 E2.7 SIXTH LEVEL – ELECTRICAL
3/32" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXIT CIRCUITS ON SHEETS E2.11 THRU E2.13.
2	RELOCATE SIGN FROM UPPER FLOOR.
3	ALL SIGNS REFURBISHED W/BALLASTS AND LAMPS BY SIGN CONTRACTOR.

REV. #	DATE	DESCRIPTION	BY
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	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

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PROJECT:
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PARKING RAMP

DRAWN BY: B.J. RIEBENACK
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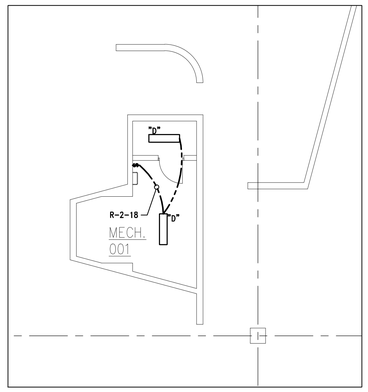
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

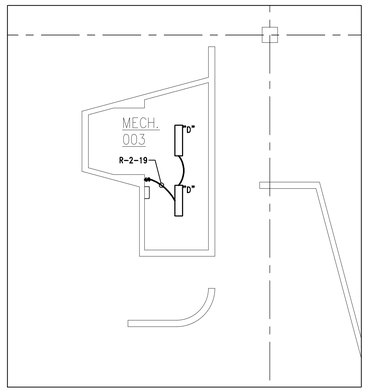
SHEET TITLE: SIXTH LEVEL ELECTRICAL

DRAWING NUMBER: E2.7

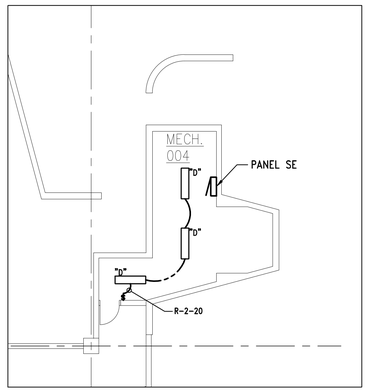
SHEET 1 OF 1



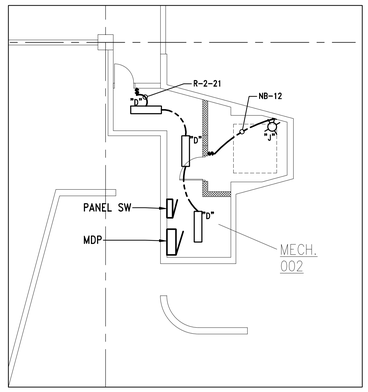
NORTHEAST



NORTHWEST



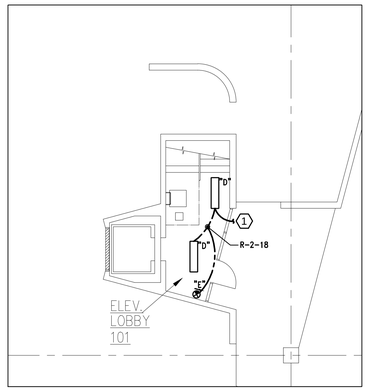
SOUTHEAST



SOUTHWEST

1 / E2.8 BASEMENT LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"



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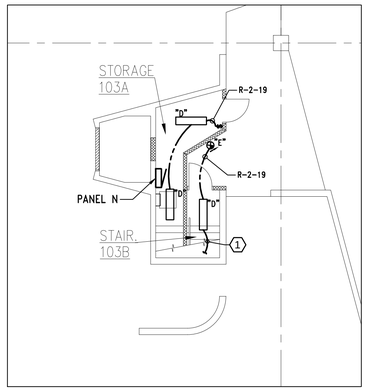

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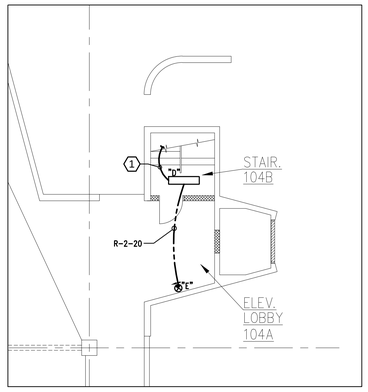

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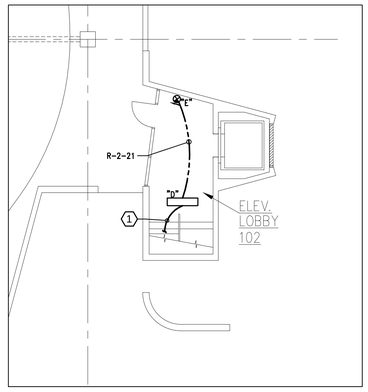
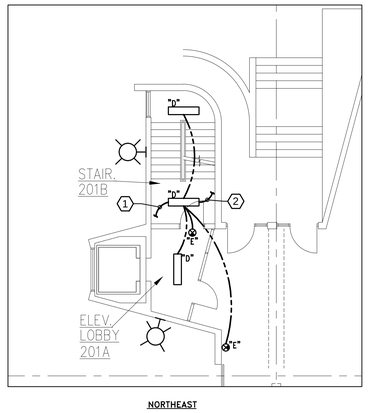


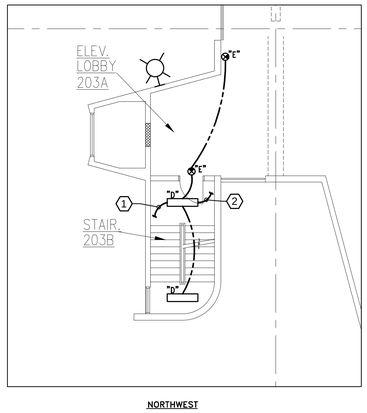
SOUTHWEST

2 / E2.8 GROUND LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"



NORTHEAST



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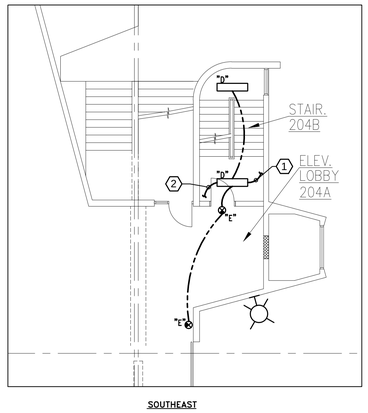

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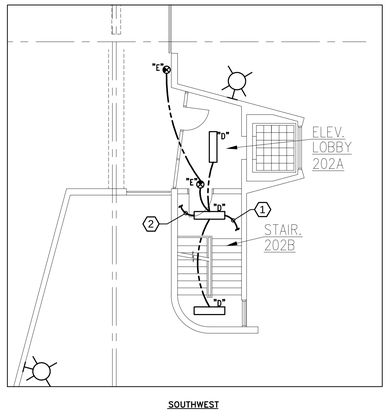

SOUTHWEST

3 / E2.8 SECOND LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	UP TO NEXT LEVEL LIGHTING.
2	DOWN TO NEXT LEVEL LIGHTING.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

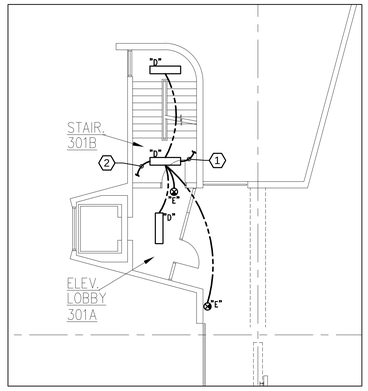
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

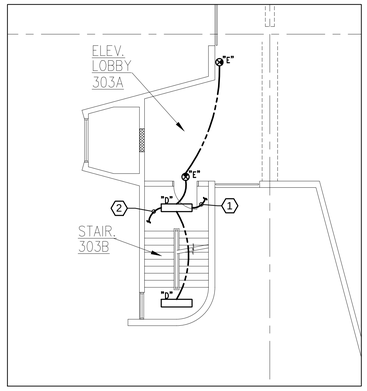
SHEET TITLE: ENLARGED PLANS LIGHTING

DRAWING NUMBER: E2.8

SHEET 1 OF 1



NORTHEAST



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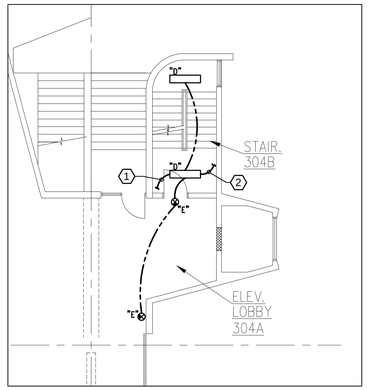

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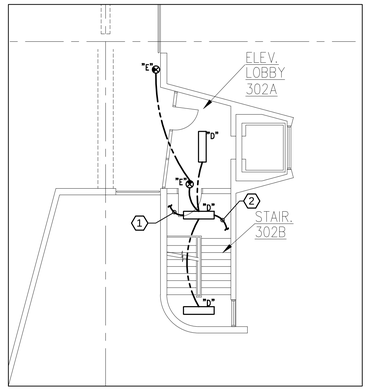
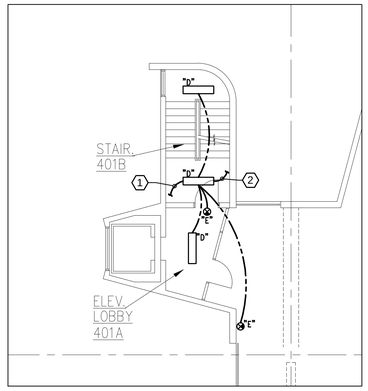


SOUTHWEST

1 / E2.9 THIRD LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"



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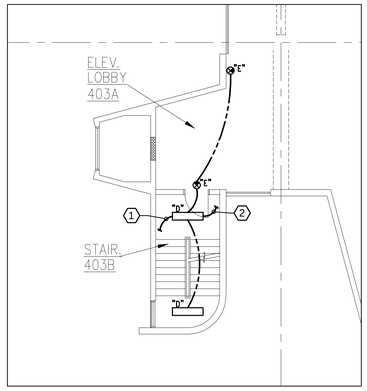

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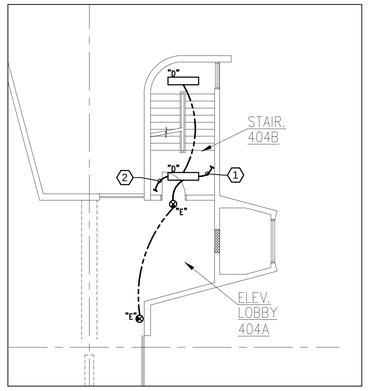

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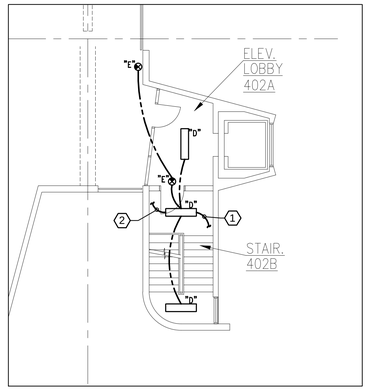
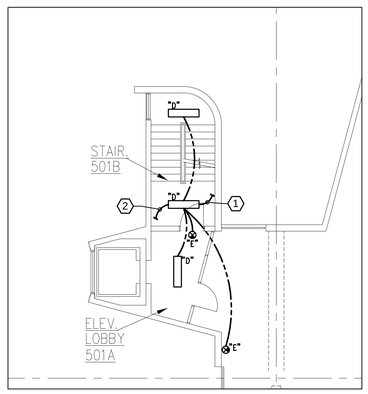


SOUTHWEST

2 / E2.9 FOURTH LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"



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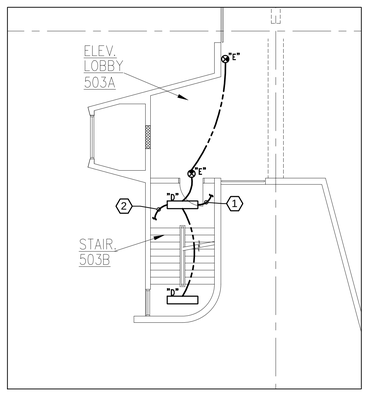
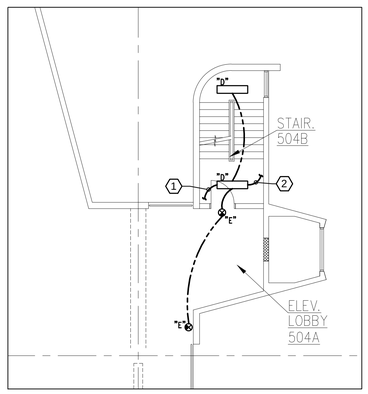
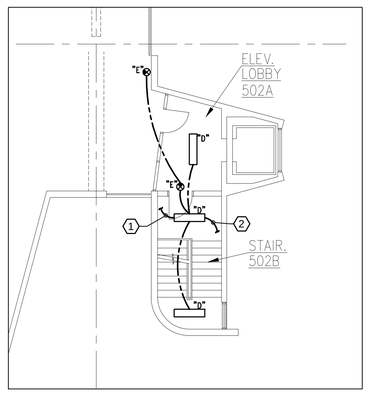


NORTHWEST



SOUTHEAST



SOUTHWEST

3 / E2.9 FIFTH LEVEL STAIR/ELEVATOR TOWERS – LIGHTING

1/8" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	UP TO NEXT LEVEL LIGHTING.
2	DOWN TO NEXT LEVEL LIGHTING.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

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1415 S. Washington Avenue, Saginaw, MI 48601

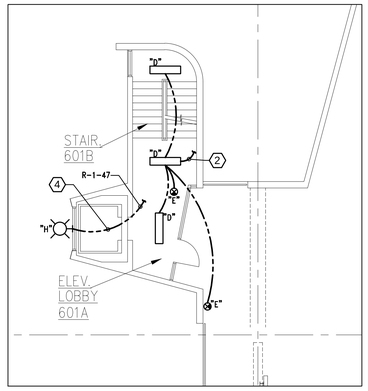
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS LIGHTING

DRAWING NUMBER: E2.9

SHEET 1 OF 1



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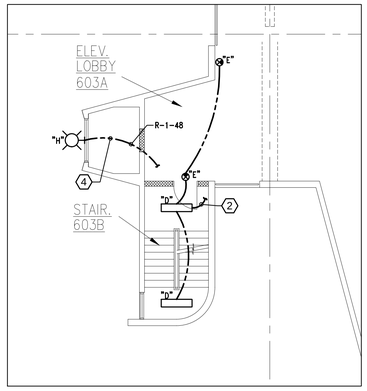
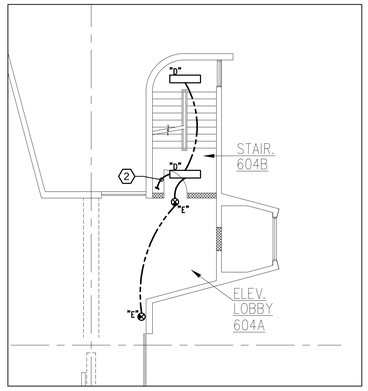
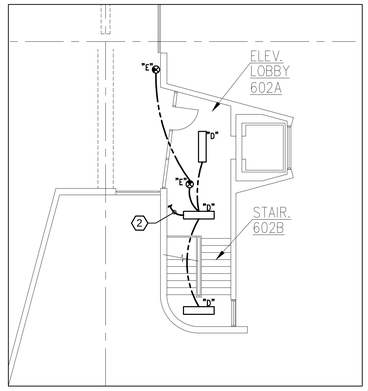


NORTHWEST

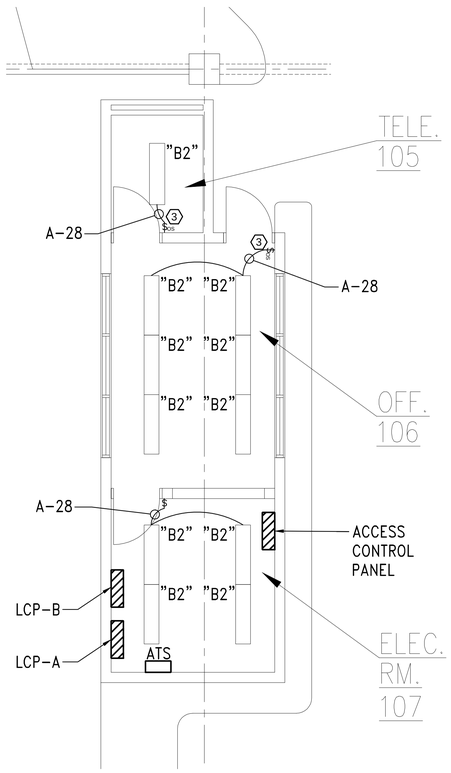


SOUTHEAST



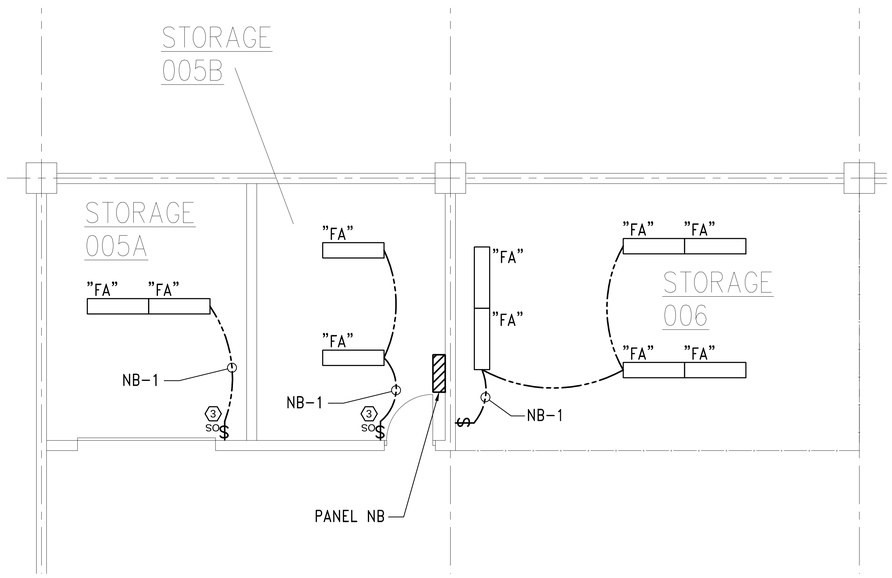
SOUTHWEST

N 1 E2.10 SIXTH LEVEL STAIR/ELEVATOR TOWERS – LIGHTING
1/8" = 1'-0"



LIGHTING

N 2 E2.10 GROUND LEVEL OFFICE/STORAGE SOUTH EAST
1/4" = 1'-0"



LIGHTING

N 3 E2.10 BASEMENT LEVEL STORAGE NORTH EAST
1/4" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	UP TO NEXT LEVEL LIGHTING.
2	DOWN TO NEXT LEVEL LIGHTING.
3	PROVIDE WALL SWITCH OCCUPANCY SENSOR.
4	REDO EXISTING CONDUIT AND WIRE. REUSE OPENING IN ROOF.

REV. #	DATE	DESCRIPTION	BY
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	06-19-12	50% OWNER REVIEW	PT

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1475 S. Washington Avenue, Saginaw, MI 48601

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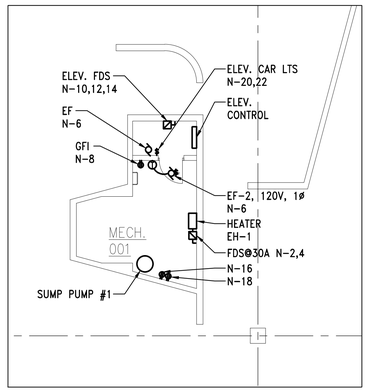
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

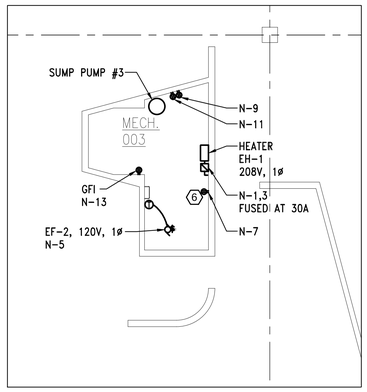
SHEET TITLE: ENLARGED PLANS LIGHTING

DRAWING NUMBER: E2.10

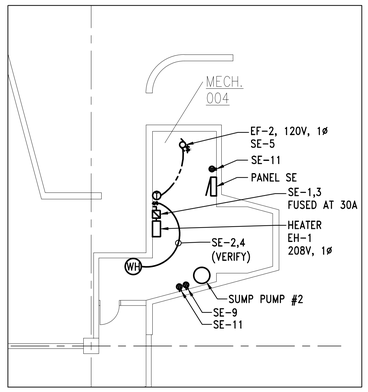
SHEET 1 OF 1



NORTHEAST



NORTHWEST



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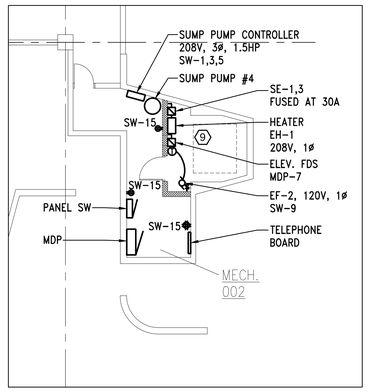
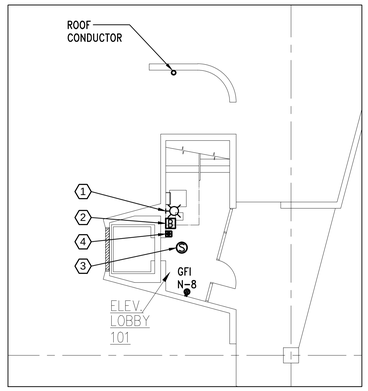


SOUTHWEST

1 BASEMENT LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.11 1/8" = 1'-0"



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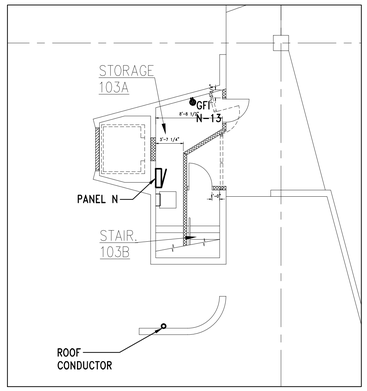

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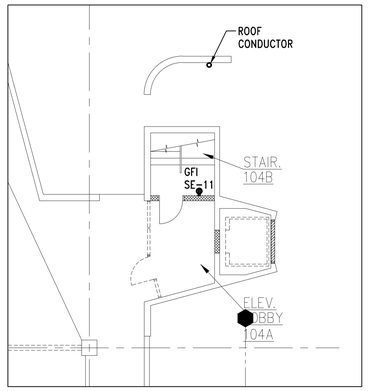

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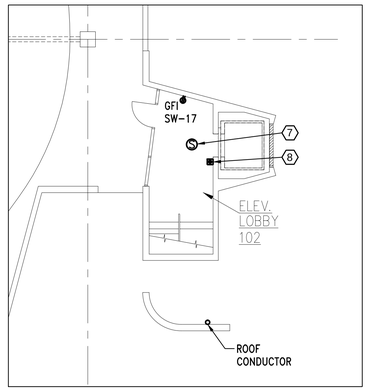
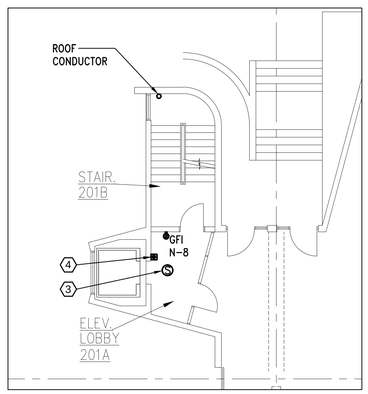


SOUTHWEST

2 GROUND LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.11 1/8" = 1'-0"



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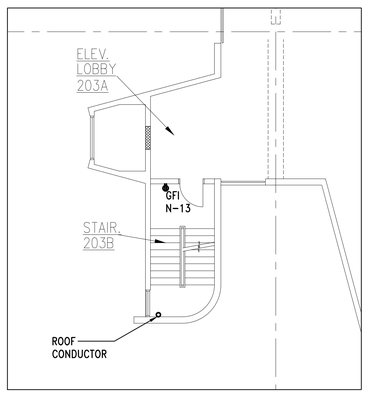

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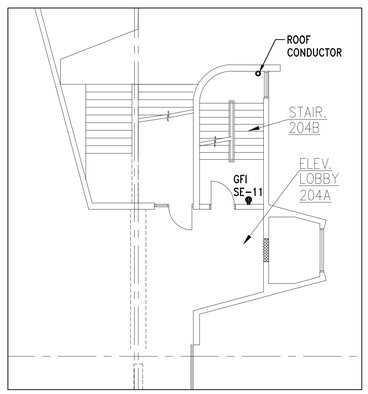

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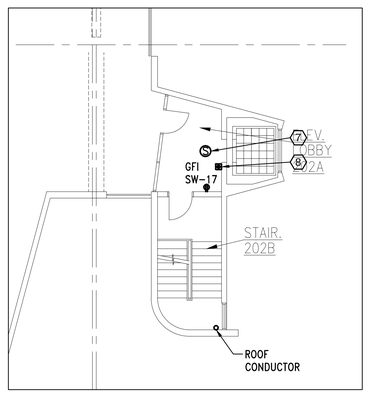

SOUTHWEST

3 SECOND LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.11 1/8" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXISTING RED LIGHT TO REMAIN AND CONNECTED TO ELEVATOR.
2	EXISTING BELL CONNECTED TO ELEVATOR.
3	EXISTING SMOKE DETECTOR.
4	ELEVATOR CONTROLS TO REMAIN.
5	HEAT TRACE TERMINATION BOX WITH RTD. MOUNT AT +84". CABLE TO RUN UP TO ROOF THEN DOWN TO GRADE LEVEL INSIDE ROOF CONDUCTOR.
6	PROVIDE NEW HEAT TRACE FOR WATER SERVICE. SEE SHEET E2.13.
7	NEW SMOKE DETECTOR BY ELEVATOR INSTALLED BY ELECTRICAL CONTRACTOR.
8	NEW PUSH BUTTON CONTROL. PROVIDE CONDUIT AS REQUIRED.
9	PROVIDE NEW CAT 5E CABLE FROM ELEVATOR TO TELEPHONE BOARD IN MECHANICAL 002. CABLE TO BE IN 1" CONDUIT.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

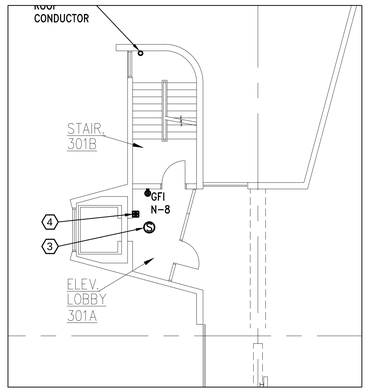
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS POWER

DRAWING NUMBER: E2.11

SHEET 1 OF 1



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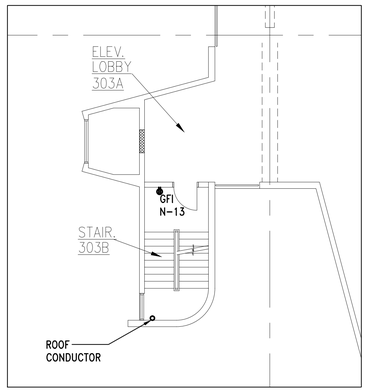

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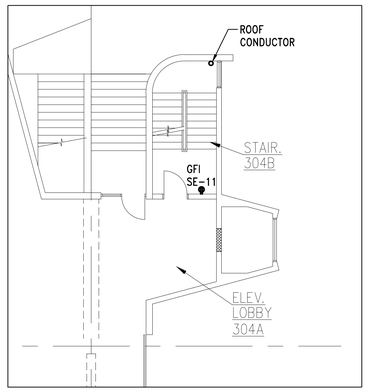

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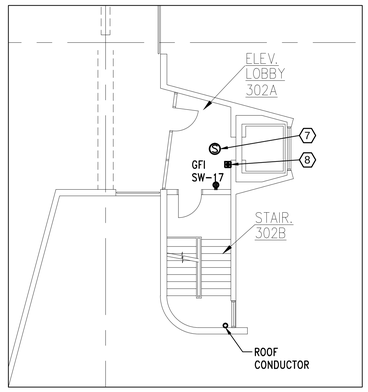
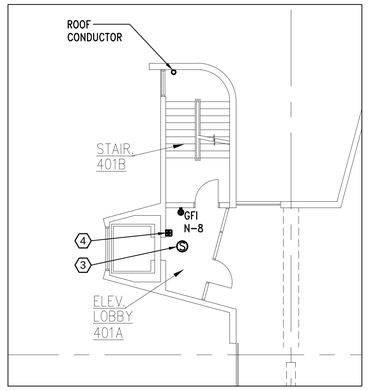


SOUTHWEST

1 THIRD LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.12 1/8" = 1'-0"



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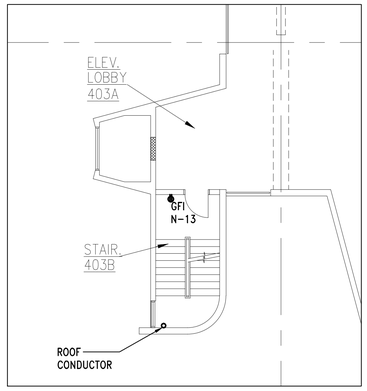

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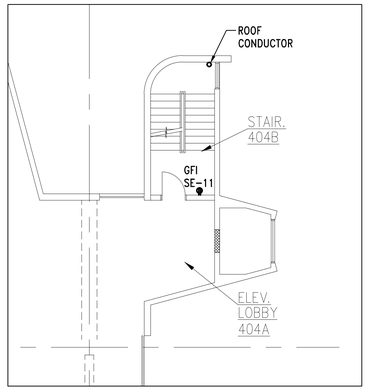

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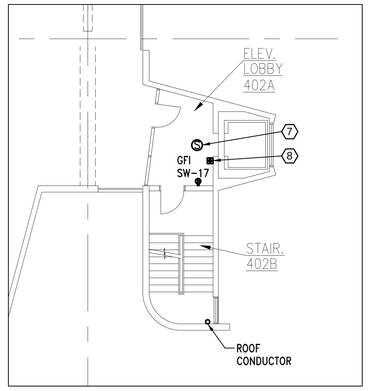
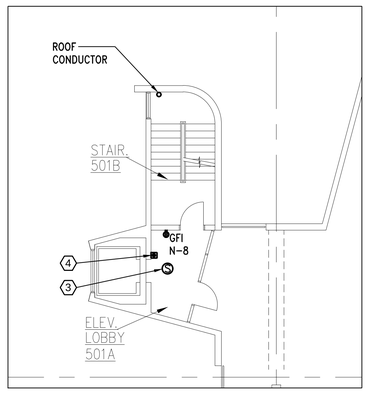


SOUTHWEST

2 FOURTH LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.12 1/8" = 1'-0"



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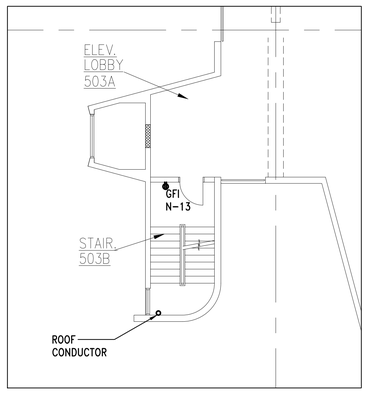

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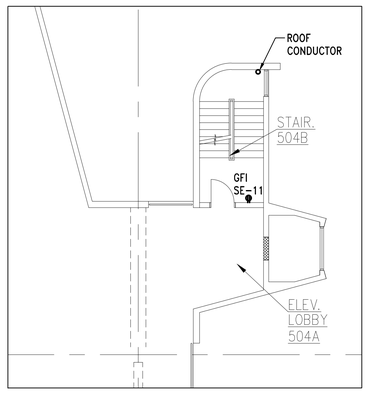
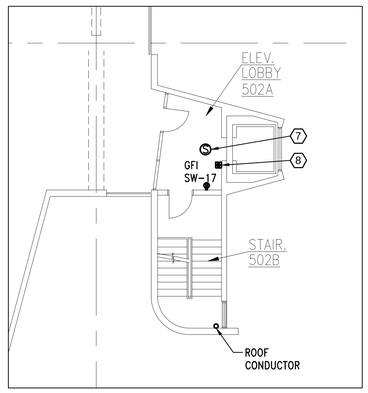


SOUTHEAST



SOUTHWEST

3 FIFTH LEVEL STAIR/ELEVATOR TOWERS – POWER

E2.12 1/8" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXISTING RED LIGHT TO REMAIN AND CONNECTED TO ELEVATOR.
2	EXISTING BELL CONNECTED TO ELEVATOR.
3	EXISTING SMOKE DETECTOR.
4	ELEVATOR CONTROLS TO REMAIN.
5	HEAT TRACE TERMINATION BOX WITH RTD. MOUNT AT +84". CABLE TO RUN UP TO ROOF THEN DOWN TO GRADE LEVEL INSIDE ROOF CONDUCTOR.
6	PROVIDE NEW HEAT TRACE FOR WATER SERVICE.
7	NEW SMOKE DETECTOR BY ELEVATOR INSTALLED BY ELECTRICAL CONTRACTOR.
8	NEW PUSH BUTTON CONTROL. PROVIDE CONDUIT AS REQUIRED.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT
	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

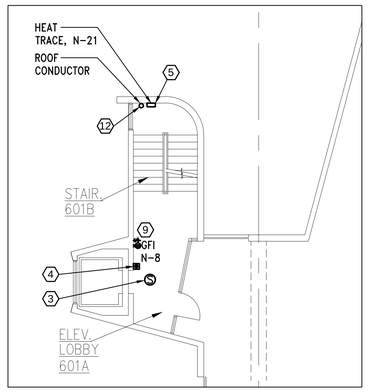
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS POWER

DRAWING NUMBER: E2.12

SHEET 1 OF 1



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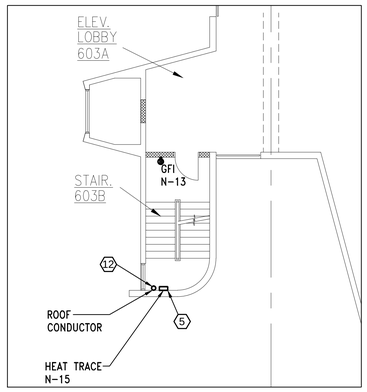

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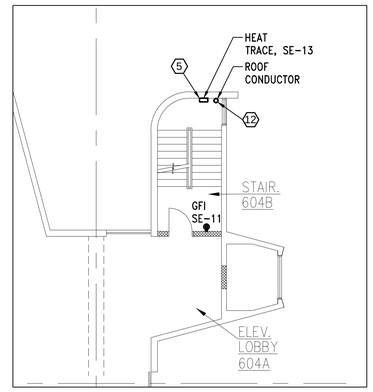
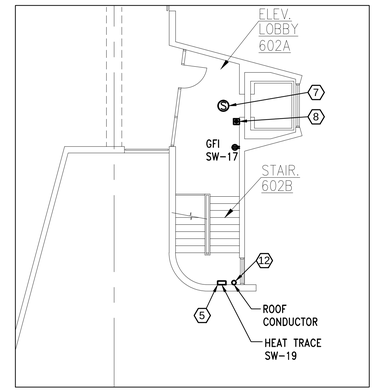


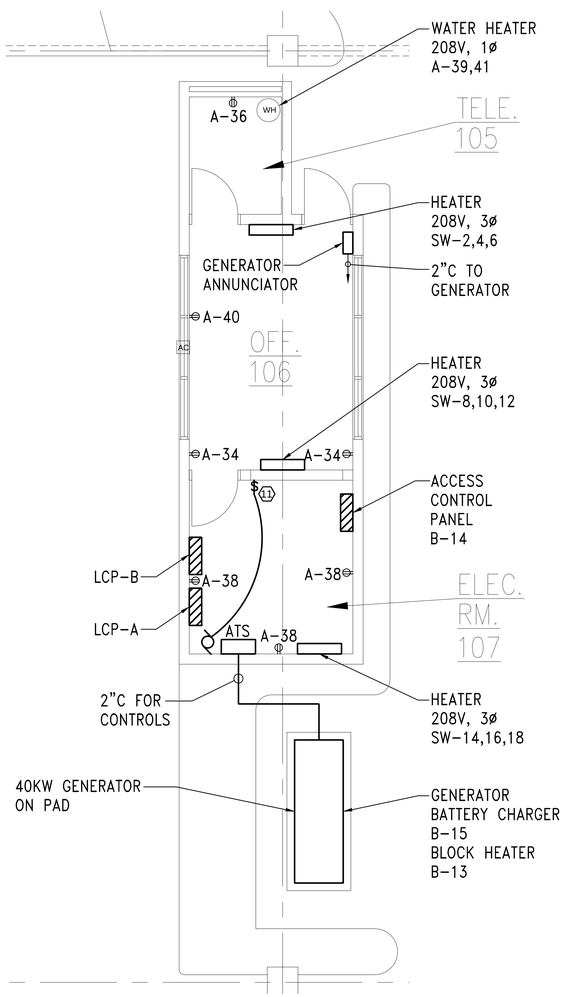
SOUTHEAST



SOUTHWEST

1 SIXTH LEVEL STAIR/ELEVATOR TOWERS – POWER

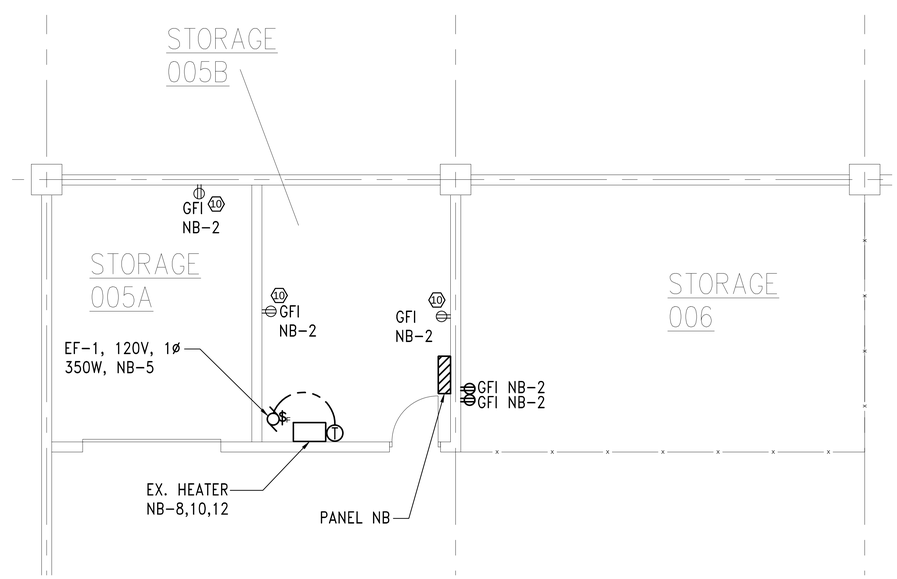
E2.13 1/8" = 1'-0"



POWER

2 GROUND LEVEL OFFICE/STORAGE SOUTH EAST

E2.13 1/4" = 1'-0"



LIGHTING

3 BASEMENT LEVEL STORAGE NORTH EAST

E2.10 1/4" = 1'-0"

KEYED NOTES:

TAG	DESCRIPTION
1	EXISTING RED LIGHT TO REMAIN AND CONNECTED TO ELEVATOR.
2	EXISTING BELL CONNECTED TO ELEVATOR.
3	EXISTING SMOKE DETECTOR.
4	ELEVATOR CONTROLS TO REMAIN.
5	HEAT TRACE TERMINATION BOX WITH RTD. MOUNT AT +84". CABLE TO RUN UP TO ROOF THEN DOWN TO GRADE LEVEL INSIDE ROOF CONDUCTOR. USE CHROMALUXHEAT TRACE EQUIPMENT: CABLE: 5W CABLE SRF5-1RGT END SEAL KIT: RG-EK-1 DIGITAL HEAT TRACE CONTROL W/RTD: DTS-HAZ
6	PROVIDE NEW HEAT TRACE FOR WATER SERVICE.
7	NEW SMOKE DETECTOR BY ELEVATOR INSTALLED BY ELECTRICAL CONTRACTOR.
8	NEW PUSH BUTTON CONTROL. PROVIDE CONDUIT AS REQUIRED.
9	KEYED SWITCH FOR FLOOR LIGHT ON SWITCH.
10	EXISTING RECEPTACLE LOCATION, NEW DEVICE AND CONVERT BOX.
11	CONNECT TO LIGHTING CIRCUIT.
12	MOUNT RTD ON PIPE INSIDE STAIRWELL.

REV. #	DATE	DESCRIPTION	BY
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	06-19-12	50% OWNER REVIEW	PT

STATUS/REVISIONS

Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1415 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
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APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ENLARGED PLANS POWER

DRAWING NUMBER: E2.13

SHEET 1 OF 1

FIXTURE SCHEDULE

TYPE	LAMP IN EA. FIXTURE	BALLAST	VOLTAG	DESCRIPTION	MANUFACTURE	CATALOG #
A	LED	INCLUDED	UNV	PENDANT MOUNTED WITH BIRD BOX PARKING GARAGE LIGHT FIXTURE WITH 50	MCGRAW EDISC	VPL-B02-LED-E1-SQ-WH-2L-TR-PBG-OS1
	2-21 LED BARS			WATTS OF LED'S, 4000K COLOR TEMPERATURE, TWO CIRCUITS, OCCUPANCY		
				SENSOR ON ONE LIGHT BAR, TAMPER PROOF FASTENERS, WHITE FINISH,		
				SQUARE TYPE V DISTRIBUTION AND U.L. LISTED FOR DAMP LOCATION		
B	LED	INCLUDED	UNV	PENDANT MOUNTED WITH BIRD BOX PARKING GARAGE LIGHT FIXTURE WITH 50	MCGRAW EDISC	VPL-B02-LED-E1-RW-WH-2L-TR-PBG-OS1
	2-21 LED BARS			WATTS OF LED'S, 4000K COLOR TEMPERATURE, TWO CIRCUITS, OCCUPANCY		
				SENSOR ON ONE LIGHT BAR, TAMPER PROOF FASTENERS, WHITE FINISH,		
				RECTANGLE WIDE DISTRIBUTION AND U.L. LISTED FOR DAMP LOCATIO		
C	LED	INCLUDED	UNV	EXISTING TO REMAIN LIGHT POLE. LED AREA LIGHT WITH A MIN. OF 27,700	MCGRAW EDISC	VTS-B12-E1-5XQ
	12-21 LED BARS			LUMENS, LESS THAN 285WATTS, TYPE 5 EXTRA WIDE SQUARE DISTRIBUTION,		
				208 VOLTS, ELECTRONIC DRIVER, OPERATION AT 350MA, WITH HI/LOW		
				OPERATION, DARK BRONZE FINISH, 5100 KELVIN TEMPATURE LIGHT		
D	LED	INCLUDED	UNV	SURFACE MOUNT VANDAL RESISTANT 2' LED FIXTURE, 3750 DELIVERED	MCGRAW EDISC	HVL8-2-3-7-50-UNV-O-ED-S-IB/OB-OS
				LUMENS, 5000K COLOR WITH 75 CRI, UNIVERSAL VOLTAGE, OPAL LENSE,		
				ELECTRONIC DRIVER, INBOARD/ OUTBOARD CIRCUITING, 2 CIRCUITS, INTEGRAL		
				OCCUPANCY SENSOR ON THE OUTBOARD LED BARS, U.L. LISTED FOR		
E	RED LED INCLUDED	INCLUDED	120V	DIE CAST ALUMINUM HOUSING WITH CLEAR POLYCARBONATE LENS, NEMA 4X	SURE-LITE	UX6-0-95-R-WH
				120 VOLT, AC ONLY, 2.7 WATTS POWDER COAT FINISH, NFPA 101 COMPLIANT, LED		
				RED LAMPS, UL 924 COMPLIANT, 5 YEAR WARRANTY,		
FA	2-F32T8/XL/SPX41/ECO	GE232-MAX-	UNV	4' 2 T8 LAMP VAPORTIGHT FIXTURE, UNIVERSAL VOLTAGE, 32 WATT LAMPS,	METALUX	VT2-232-DR-UNV-EB81-SSL-VTS-CHAIN/SET-U-VT2-SS-MBK
		N/ULTRA		INTERNAL PRIMATIC LENS WITH 15% DR HIGH IMPACT ADDITIVE, INSTAT START		
				BALLAST, STAINLESS STEEL LATCHES, CHAIN HANGING SET AND UL LISTED		
				DAMP LOCATION		
FB	2-F32T8/XL/SPX41/ECO	GE232-MAX-	UNV	2 LAMP SURFACE MOUNTED FIXTURE, 18 GAUGE STEEL HOUSING, PAINTED	FAIL SAFE	FRS-232-UNV-EB81
ALT TO D		N/ULTRA		AFTER FABRICATION, PRISMATIC POLYCARBONATE 0.125 LENS, UL DAMP		
				LOCATION, UNIVERSAL VOLTAGE, AND INSTANT START BALLAST.		
H	1000 METAL HALIDE	PULSE START	120V	LARGE 1000 WATT 6X7 FLOOD LIGHT, PULSE START BALLAST, 120V FUSED,	MCGRAW EDISC	AFL-Y-1000-MP-120-67-BZ-F
				YOKE MOUNT, BRONZE FINISH, U.L. LISTED,		
J	26 WATT	INCLUDED	120V	VAPORTIGHT WALL MOUNT, STONE GRAY, HEAT TREATED CLEAR GLASS WITH	CANLET	68-02-FWF-21-OG-11
				GUARD, 120 VOLT AND UL LISTED		
B2	2-F32T8/XL/SPX41/ECO	GE232-MAX-	UNV	PROVIDE INSTANT START BALLAST AND LAMPS TO RETROFIT EXISTING	GE	
		N/ULTRA		FIXTURES		
K	EXISTING HPS	-	-	EXISTING LIGHT FIXTURE TO REMAIN WITH HIGH PRESSURE SODIUM LIGHTING.	EXISTING	

EQUIPMENT LIST

TAG	DESCRIPTION	MANUFACTURER	CATALOG #
GEN	200 AMP FUSED DISCONNECT SWITCH WITH NUETRAL BUSS AND GROUND BUS.	SQUARE D	H364NRB-PKOGTA2
FDS	NEMA 3R CONSTRUCTION, SERVICE ENTRACE RATED AND LOCKABLE HANDLE.		
	FUSED AT 150 AMPS CLASS R.		
EH-1	30A NON FUSED DISCONNECT SWITCH, NEMA 1 ENCLOSURE AND U.L. LISTED	SQUARE D	DU321
FDS			
ELEV.	60A FUSED DISCONNECT SWITCH 3 POLE, 240VAC, FUSED AT 50 AMPS, GROUND	SQUARE D	H322N
FDS	BAR INCLUDED.		
SW			
MDP	800A MAIN BREAKER 120/208 VOLT, 3 PHASE, 4 WIRE, SOLID NUETRAL, GROUND	SQUARE D	HCP36868M-HCW68TSD-HC4286DB
	BAR KIT, NEMA 3R ENCLOSURE, I-LINE DISTRIBUTION, BUSSING RATED AT		HC8SN-PK32DGTA-HC4286WP
	22KAIC, COPPER BUSSING, SURFACE MOUNTED, SERVICE ENTRANCE RATED,		MGP36800
	AND U.L LISTED		(3) QDA32150
			(3) QDA32200
			(1) FA36050
LCP-A	INTEGRATED BREAKER AND RELAY ENCLOSURE, TOUCH SCREEN CONTROL,	COOPER CONTROL	CKMB-120V3P-(SQD)-48-0-46-1-5-S-T-CCM1-AN2
	PROGRAMMING STORED IN NON VOLATILE MEMORY, 30 AMP RELAYS (2POLE	CONTROL KEEPER	
	ENCLOSURE, UP TO 18 RELAYS, 120/208 3 PHASE MAIN LUG ONLY INPUT,	SQUARE D EQUAL	(2) QOB220
	OPERATING TEMPERATURE 32-122 DEG F, MASTER OVERIDE ON/OFF/AUTO OR		(1) QOB120 EPD
	PC SOFTWARE, ASTRONIC CLOCK, 0-10V INPUTS, DIGITAL SWITCH INPUT,		(37) QOB120
	INTEGRAL 20A BREAKERS, TIMED INPUTS, ETHERNET PORT DMX INTERFACE,		225A MIN. INTERIOR 42 SPACE
	AND SQUARE D QOB BREAKERS, 42 SPACE INTERIOR.		
LCP-B	INTEGRATED BREAKER AND RELAY ENCLOSURE, TOUCH SCREEN CONTROL,	COOPER CONTROL	CKMB-120V3P-(SQD)-36-0-29-1-5-S-T-CCM1-AN1
	PROGRAMMING STORED IN NON VOLATILE MEMORY, 30 AMP RELAYS (2POLE	CONTROL KEEPER	
	ENCLOSURE, UP TO 36 RELAYS, 120/208 3 PHASE MAIN LUG ONLY INPUT,	SQUARE D EQUAL	(30) QOB120
	OPERATING TEMPERATURE 32-122 DEG F, MASTER OVERIDE ON/OFF/AUTO OR		225A MLO INTERIOR 30 SPACE
	PC SOFTWARE, ASTRONIC CLOCK, 0-10V INPUTS, DIGITAL SWITCH INPUT,		
	INTEGRAL 20A BREAKERS, TIMED INPUTS, ETHERNET PORT DMX INTERFACE,		
	AND SQUARE D QOB BREAKERS, 30 SPACE INTERIOR. UL 924 COMPLIANT		
PHOTO	OUTDOOR LIGHT LEVEL SENSOR IN WEATHERPROOF HOUSING, 24VDC, 0-250FC,	GREENGATE	(4)- PC-O
CELL	ANALOG PHOTOSENSOR, 5 YEAR WARRANTY AND UL LISTED.	COOPER CONTROLS	
24V			
DIGITAL	24V DC SUPPLY VOLTAGE VIA THE NETWORK. CLASS 2 WIRING, ALL PLASTIC	COOPER CONTROL	(3) GDS-6-TSB-V-CE-BLANK
SW	CONSTRUCTION, 6 BUTTON UNIT OVERIDE AND COMPATIBLE WITH THE RELAY	GREENGATE	
	SYSTEM.		
PANEL	225A MAIN LUG ONLY, 120/208V, 3 PHASE, 4 WIRE, 42 SPACE PANEL BOARD,	SQUARE D	NQ442L2C-MH38WP
SE	GROUND BAR KIT, SOLID NUETRAL BUSSINING, NEMA 3R ENCLOSURE, COPPER		PK27GTACU
	BUSSING, 10KAIC RATED AND U.L. LISTED.		(22) QOB120
			(1) QOB120 EPD
			(1) QOB230
PANEL	225A MAIN LUG ONLY, 120/208V, 3 PHASE, 4 WIRE, 42 SPACE PANEL BOARD,	SQUARE D	NQ442L2C-MH38WP
SW	GROUND BAR KIT, SOLID NUETRAL BUSSINING, NEMA 3R ENCLOSURE, COPPER		PK27GTACU
	BUSSING, 10KAIC RATED AND U.L. LISTED.		(16) QOB120
			(1) QOB315
			(1) QOB230
			(1) QOB320
			(2) QOB330
			(1) QOB120 EPD
PANEL	225A MAIN LUG ONLY, 120/208V, 3 PHASE, 4 WIRE, 42 SPACE PANEL BOARD,	SQUARE D	NQ442L2C-MH38WP
N	GROUND BAR KIT, SOLID NUETRAL BUSSINING, NEMA 3R ENCLOSURE, COPPER		PK27GTACU
	BUSSING, 10KAIC RATED AND U.L. LISTED.		(22) QOB120
			(2) QOB230
			(1) QOB350
			(1) QOB220
			(1) QOB 360
			(2) QOB120 EPD
PANEL	EXISTING TO REMAIN	SQUARE D	AS REQUIRED
NB			

ELECTRICAL SYMBOLS:

- SURFACE MOUNT LIGHT FIXTURE – REFER TO SCHEDULE
- LINEAR SURFACE MOUNT LIGHT FIXTURE – REFER TO SCHEDULE
- WALL MOUNT FIXTURE – REFER TO SCHEDULE
- POLE MOUNT LIGHT FIXTURE – REFER TO SCHEDULE
- EXIT LIGHT
- ELECTRICAL CIRCUIT
- HOME RUN
- $ LIGHT SWITCH
- $F FUSED SWITCH
- $K KEYED SWITCH
- $OS OCCUPANCY SENSOR SWITCH
- MAIN DISTRIBUTION PANEL
- PANELBOARD
- PC PHOTOCELL
- FUSED DISCONNECT SWITCH
- DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- MOTOR
- T THERMOSTAT
- S SMOKE DETECTOR
- ELEVATOR CONTROL BUTTONS
- AUTOMATIC TRANSFER SWITCH

ABREVIATIONS:

XF	TRANSFORMER
LCP	LIGHTING CONTROL PANEL
PC	PHOTOCELL
FDS	FUSED DISCONNECT SWITCH
CB#	CIRCUIT BREAKER
GND	GROUND
NEC	NATIONAL ELECTRIC CODE
R-	CIRCUIT FOR RELAY
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
EF	EXHAUST FAN
OS	OCCUPANCY SENSOR

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT

STATUS/REVISIONS

WAK Engineers·Architects·Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: SCHEDULES, LEGEND & NOTES

DRAWING NUMBER: E5.1

SHEET 1 OF 1

MAIN SWITCHBOARD PANEL SCHEDULE

SWITCHBOARD PANEL: MDP — O.C. PROT: 800A
MOUNTING: SURFACE — VOLTAGE: 208/120
LOCATION: — BUSSING: 800A
A.I.C.: 22,000 — 3 PHASE, 4 WIRE

CIR. NO.		BREAKER AMPS	POLES	CAT#	KVA LOAD DISTRIBUTION LTG. A	LTG. B	LTG. C	PWR. A	PWR. B	PWR. C	MTR. A	MTR. B	MTR. C	MISC. A	MISC. B	MISC. C
1	LCP-A	150	3		10.9	10.2	9.7	0.5	1.2	0.4	0.1	1.0	1.0			
2	LCP-B	150	3		2.1	2.5	1.4	0.0	0.0	0.0	2.7	2.2	2.4			
3																
4	PANEL SE	150	3		0.0	0.0	0.0	0.2	0.2	1.3	4.2	3.7	0.4			
5	PANEL SW	200	3		0.2	0.0	0.0	0.0	0.7	1.3	13.8	12.4	14.5			
6	PANEL N	200	3		0.5	0.0	0.0	5.9	0.5	1.6	11.1	11.6	7.3			
7	ELEVATOR	50	3								3.1	3.1	3.1			
8																
9																
10																
11																
12																
13																
14																

NOTES :

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	37.5	125%	46.9
RECPT.	13.7	50%	11.9
MOTORS	97.5	100%	78.0
MISC.	0.0	100%	0.0
TOTALS	148.7		136.8

LOAD	CONN. KW/PHAS	DEMAND	DEMAND KW LOAD
LIGHTING			
A	13.7	125%	17.1
B	12.7	125%	15.9
C	11.1	125%	13.9
RECPT.			
A	6.6	50%	6.64
B	2.6	50%	2.6
C	4.5	50%	4.48
MOTORS			
A	34.9	100%	34.9
B	33.9	100%	33.9
C	28.6	100%	28.6
MISC.			
A	0.0	100%	0.0
B	0.0	100%	0.0
C	0.0	100%	0.0
TOTALS			
A	55.3		58.7
B	49.2		52.4
C	44.2		47.0
TOTAL	148.7		158.1

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 413.34 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 22,000

PANELBOARD SCHEDULE

PANEL : LCP-A — O.C. PROT. : MLO
MOUNTING : SURFACE — VOLTAGE : 208/120
LOCATION : — BUSSING : 225A
AIC : 10,000 — 3 PHASE, 4 WIRE

CKT. NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH.	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT. NO.
1	BASEMENT SIGNS	20/1	900			A			1156	20/1	THIRD LEVEL LIGHTS	2
3	BASEMENT SIGNS	20/1	900			B			486	20/1	THIRD LEVEL LIGHTS	4
5	BASEMENT CEILING LTS	20/1	1046			C			1100	20/1	FOURTH LEVEL LTS	6
7	BASEMENT CEILING LTS	20/1	540			A			1172	20/1	FOURTH LEVEL LTS	8
9	GROUND LEVEL LTS	20/1	1324			B			1156	20/1	FOURTH LEVEL LTS	10
11	GROUND LEVEL LTS	20/1	942			C			486	20/1	FOURTH LEVEL LTS	12
13	GROUND LEVEL LTS	20/1	980			A			1100	20/1	FIFTH LEVEL LTS	14
15	GROUND LEVEL LTS	20/1	1162			B			1172	20/1	FIFTH LEVEL LTS	16
17	SECOND LEVEL LIGHTS	20/1	1100			C			1156	20/1	FIFTH LEVEL LTS	18
19	SECOND LEVEL LIGHTS	20/1	1172			A			962	20/1	FIFTH LEVEL LTS	20
21	SECOND LEVEL LIGHTS	20/1	1156			B			1140	20/2	SIXTH LEVEL LTS.	22
23	SECOND LEVEL LIGHTS	20/1	486			C			1140	-	ROOF	24
25	SECOND LEVEL LIGHTS(S)	20/1	1600			A	100			20/1	CONTROL PANEL	26
27	THIRD LEVEL LIGHTS	20/1	1100			B			616	20/1	OFFICE LIGHTS RM. 105-107	28
29	THIRD LEVEL LIGHTS	20/1	1172			C			1080	20/1	ROOF FLOOD	30
31	BOLLARDS NW SIDEWALK	20/1	250			A			1080	20/1	ROOF FLOOD	32
33	SPARE	20/1				B		180		20/1	HEAT TRACE WH EPD	34
35	SPARE	20/1				C		360		20/1	RECEPTACLES RM 106	36
37	SPARE	20/1				A		540		20/1	ELEC RM 107 REC	38
39	WH RM 105 T.	20/2			1000	B		1000		20/1	RM 106 AC RECEPT	40
41	WITH NUETRAL	-			1000	C				20/1	SPARE	42

NOTES :
1. REFER TO RELAY PANEL SCHEDULES FOR CIRCUITS
2. 20 INCH WIDE ENCLOSURE
3. COPPER BUSSING
4. EQUIPMENT GROUND BAR KIT
5. NEUTRAL LUGS

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	30.8	125%	38.5
REC.	2.1	50%	2.1
MOTORS	2.1	100%	2.1
TOTALS	35.0		42.7

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	10.9	125%	13.6
B	10.2	125%	12.8
C	9.7	125%	12.1
REC.			
A	0.5	50%	0.5
B	1.2	50%	1.2
C	0.4	50%	0.4
MOTORS			
A	0.1	100%	0.1
B	1.0	100%	1.0
C	1.0	100%	1.0
TOTALS			
A	11.6		14.3
B	12.4		14.9
C	11.1		13.5
TOTAL	35.0		42.7

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 97.30 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 10,000

PANELBOARD SCHEDULE

PANEL : LCP-B — O.C. PROT. : MLO
MOUNTING : SURFACE — VOLTAGE : 208/120
LOCATION : — BUSSING : 225A
AIC : 10,000 — 3 PHASE, 4 WIRE

CKT. NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH.	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT. NO.
1	BASEMENT CEILING	20/1	650			A			918	20/1	FIFTH LEVEL	2
3	GROUND LEVEL	20/1	954			B			648	20/1	FIFTH LEVEL	4
5	SECOND LEVEL	20/1	918			C				20/1	STAIRWELL	6
7	SECOND LEVEL	20/1	486			A				20/1	STAIRWELL	8
9	THIRD LEVEL	20/1	918			B				20/1	STAIRWELL	10
11	THIRD LEVEL	20/1	486			C				20/1	STAIRWELL	12
13	GEN BLK HEATER	20/1			1000	A	500			20/1	ACCESS CONTROL PANEL	14
15	GEN BATTERY CHARGER	20/1			1000	B				20/1	SPARE	16
17	NW FRONT SIGN	20/1			1200	C				20/1	SPARE	18
19	NE FRONT SIGN	20/1			1200	A				20/1	SPARE	20
21	NE-FRONT SIGN	20/1			1200	B				20/1	SPARE	22
23	WEST SIGN	20/1			1200	C				20/1	SPARE	24
25	SPARE	20/1				A				20/1	SPARE	26
27	SPARE	20/1				B				20/1	SPARE	28
29	SPARE	20/1				C				20/1	SPARE	30

NOTES :
1. REFER TO RELAY PANEL SCHEDULES FOR CIRCUITS
2. 20 INCH WIDE ENCLOSURE
3. COPPER BUSSING
4. EQUIPMENT GROUND BAR KIT
5. NEUTRAL LUGS

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	6.0	125%	7.5
REC.	0.0	50%	0.0
MOTORS	7.3	100%	7.3
TOTALS	13.3		14.8

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	2.1	125%	2.6
B	2.5	125%	3.2
C	1.4	125%	1.8
REC.			
A	0.0	50%	0.0
B	0.0	50%	0.0
C	0.0	50%	0.0
MOTORS			
A	2.7	100%	2.7
B	2.2	100%	2.2
C	2.4	100%	2.4
TOTALS			
A	4.8		5.3
B	4.7		5.4
C	3.8		4.2
TOTAL	13.3		14.8

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 36.90 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 10,000

PANELBOARD SCHEDULE

PANEL : PANEL SE — O.C. PROT. : MLO
MOUNTING : SURFACE — VOLTAGE : 208/120
LOCATION : — BUSSING : 225A
AIC : 10,000 — 3 PHASE, 4 WIRE

CKT. NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH.	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT. NO.
1	EH-1	30/2			2500	A	1200			20/1	GATE OPERATOR SE	2
3	SE	-			2500	B	1200			20/1	GATE OPERATOR SE	4
5	EF-2 SE	20/1			350	C				20/1	SPARE	6
7	RM. 004 REC. SUMP PUMP	20/1		200		A				20/1	SPARE	8
9	RM. 004 REC. SUMP PUMP	20/1		200		B				20/1	SPARE	10
11	STAIR TOWER REC	20/1		1260		C				20/1	SPARE	12
13	HEAT TRACE EPD	20/1			500	A				20/1	SPARE	14
15	SPARE	20/1				B				20/1	SPARE	16
17	SPARE	20/1				C				20/1	SPARE	18
19	SPARE	20/1				A				20/1	SPARE	20
21	SPARE	20/1				B				20/1	SPARE	22
23	SPARE	20/1				C				20/1	SPACE	24
25	SPACE	20/1				A				20/1	SPACE	26
27	SPACE	20/1				B				20/1	SPACE	28
29	SPACE	20/1				C				20/1	SPACE	30
31	SPACE	20/1				A				20/1	SPACE	32
33	SPACE	20/1				B				20/1	SPACE	34
35	SPACE	20/1				C				20/1	SPACE	36
37	SPACE	20/1				A				20/1	SPACE	38
39	SPACE	20/1				B				20/1	SPACE	40
41	SPACE	20/1				C				20/1	SPACE	42

NOTES :
1. 20 INCH WIDE ENCLOSURE
2. COPPER BUSSING
3. EQUIPMENT GROUND BAR KIT
4. NEUTRAL LUGS

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	0.0	125%	0.0
REC.	1.7	50%	1.7
MOTORS	8.3	100%	8.3
TOTALS	9.9		9.9

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	0.0	125%	0.0
B	0.0	125%	0.0
C	0.0	125%	0.0
REC.			
A	0.2	50%	0.2
B	0.2	50%	0.2
C	1.3	50%	1.3
MOTORS			
A	4.2	100%	4.2
B	3.7	100%	3.7
C	0.4	100%	0.4
TOTALS			
A	4.4		4.4
B	3.9		3.9
C	1.6		1.6
TOTAL	9.9		9.9

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 27.54 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 10,000

PANELBOARD SCHEDULE

PANEL : PANEL SW — O.C. PROT. : MLO
MOUNTING : SURFACE — VOLTAGE : 208/120
LOCATION : — BUSSING : 225A
AIC : 10,000 — 3 PHASE, 4 WIRE

CKT. NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH.	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT. NO.
1	-				840	A	4000			-		2
3	SUMP PUMP #4	15/3			840	B	4000			30/3	HEATER RM. 107	4
5	CONTROLLER	-			840	C	4000			-		6
7	ELEV. CAR LTS SW	20/1	200			A	4000			-		8
9	EF-2	20/1			350	B	4000			30/3	HEATER 106	10
11	EH-1	30/2			2500	C	4000			-		12
13	SW	-			2500	A	2000			-		14
15	RM. 002 REC. (4)	20/1		720		B	2000			20/3	HEATER 105	16
17	STAIR REC	20/1		1260		C	2000			-		18
19	HEAT TRACE EPD	20/1			500	A				20/1	SPARE	20
21	GATE OP SW	20/1			1200	B				20/1	SPARE	22
23	GATE OP SW	20/1			1200	C				20/1	SPARE	24
25	SPARE	20/1				A				20/1	SPARE	26
27	SPARE	20/1				B				20/1	SPARE	28
29	SPARE	20/1				C				20/1	SPARE	30
31	SPACE	20/1				A				20/1	SPACE	32
33	SPACE	20/1				B				20/1	SPACE	34
35	SPACE	20/1				C				20/1	SPACE	36
37	SPACE	20/1				A				20/1	SPACE	38
39	SPACE	20/1				B				20/1	SPACE	40
41	SPACE	20/1				C				20/1	SPACE	42

NOTES :
1. 20 INCH WIDE ENCLOSURE
2. COPPER BUSSING
3. EQUIPMENT GROUND BAR KIT
4. NEUTRAL LUGS

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	0.2	125%	0.3
REC.	2.0	50%	2.0
MOTORS	40.8	100%	40.8
TOTALS	43.0		43.0

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	0.2	125%	0.3
B	0.0	125%	0.0
C	0.0	125%	0.0
REC.			
A	0.0	50%	0.0
B	0.7	50%	0.7
C	1.3	50%	1.3
MOTORS			
A	13.8	100%	13.8
B	12.4	100%	12.4
C	14.5	100%	14.5
TOTALS			
A	14.0		14.1
B	13.1		13.1
C	15.8		15.8
TOTAL	43.0		43.0

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 119.36 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 10,000

PANELBOARD SCHEDULE

PANEL : PANEL NORTH (N) — O.C. PROT. : MLO
MOUNTING : SURFACE — VOLTAGE : 208/120
LOCATION : — BUSSING : 225A
AIC : 10,000 — 3 PHASE, 4 WIRE

CKT. NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH.	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT. NO.
1	EH-1 RM. 003	30/2			2500	A	2500			30/2	EH-1 RM. 001	2
3	NW	-			2500	B	2500			-	NE	4
5	EF-2 NW	20/1			350	C	700			20/1	EF-2 & EX EF	6
7	RM. 003 HEAT TRACE REC.	20/1		1000		A		1260		20/1	NE STAIR REC	8
9	RM. 003 SUMP PUMP REC	20/1		200		B	3050			-		10
11	RM. 003 SUMP PUMP REC	20/1		200		C	3050			50/3	NE ELEVATOR DISC	12
13	RM. 003 REC & STAIR	20/1		1260		A	3050			-		14
15	RM. 605B HEAT TRACE EPD	20/1			500	B		200		20/1	RM. 001 REC SUMP PUMP 1	16
17	GATE OP NW	20/1		1200		C		200		20/1	RM. 001 REC SUMP PUMP 1	18
19	GATE OP NE	20/1		1200		A		100	200	20/2	CAR LIGHT BRKER PANEL	20
21	RM. 601B HEAT TRACE EPD	20/1				B		100		-		22
23	SPARE	20/1				C				20/1	SPARE	24
25	SPARE	20/1				A				20/1	SPARE	26
27	SPARE	20/1				B				20/1	SPARE	28
29	SPARE	20/1				C				20/1	SPARE	30
31	SPACE	20/1				A				20/1	SPACE	32
33	SPACE	20/1				B				20/1	SPACE	34
35	SPACE	20/1				C				20/1	SPACE	36
37	SPACE	20/1				A	3000	1080	336	-		38
39	SPACE	20/1				B	3000	0	0	60/3	PANEL NB	40
41	SPACE	20/1				C	3200	0	0	-		42

NOTES :
1. 20 INCH WIDE ENCLOSURE
2. COPPER BUSSING
3. EQUIPMENT GROUND BAR KIT
4. NEUTRAL LUGS

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	0.5	125%	0.7
REC.	8.0	50%	8.0
MOTORS	29.9	100%	29.9
TOTALS	38.4		38.6

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	0.5	125%	0.7
B	0.0	125%	0.0
C	0.0	125%	0.0
REC.			
A	5.9	50%	5.9
B	0.5	50%	0.5
C	1.6	50%	1.6
MOTORS			
A	11.1	100%	11.1
B	11.6	100%	11.6
C	7.3	100%	7.3
TOTALS			
A	17.5		17.6
B	12.1		12.1
C	8.9		8.9
TOTAL	38.4		38.6

FEEDER VOLTAGE : 208/120
FEEDER LOAD: 106.81 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY: 10,000

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	07-23-12	ISSUED FOR BID	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ELECTRICAL PANEL SCHEDULES

DRAWING NUMBER: E6.1

SHEET 1 OF 1

PANELBOARD SCHEDULE

PANEL : PANEL BASEMENT (NB)
MOUNTING : SURFACE
LOCATION : BASEMENT (EXISTING)
AIC :

O.C. PROT. : MLO
VOLTAGE : 208/120
BUSSING : 225A
3 PHASE, 4 WIRE

CKT NO.	ITEM OR AREA SERVED	O.C. PROT.	LTG. WATTS	REC. WATTS	MTR. WATTS	PH	MTR. WATTS	REC. WATTS	LTG. WATTS	O.C. PROT.	ITEM OR AREA SERVED	CKT NO.
1	LIGHTS	20/1	336			A		1080		20/1	RECEPT	2
3						B						4
5	EF-1	20/1			200	C						6
7		20/1				A	3000			-		8
9		20/1				B	3000			40/3	HEATER	10
11		20/1				C	3000			-		12

NOTES :

1. EXISTING PANEL TO REMAIN

LOAD	CONN. KW LOAD	DEMAND FACTOR %	DEMAND KW LOAD
LIGHTING	0.3	125%	0.4
REC.	1.1	50%	1.1
MOTORS	9.2	100%	9.2
TOTALS	10.6		10.7

LOAD	CONN. KW/PHASE	DEMAND	DEMAND KW LOAD
LIGHTING			
A	0.3	125%	0.4
B	0.0	125%	0.0
C	0.0	125%	0.0
REC.			
A	1.1	50%	1.1
B	0.0	50%	0.0
C	0.0	50%	0.0
MOTORS			
A	3.0	100%	3.0
B	3.0	100%	3.0
C	3.2	100%	3.2
TOTALS			
A	4.4		4.5
B	3.0		3.0
C	3.2		3.2
TOTAL	10.6		10.7

FEEDER VOLTAGE : 208/120

FEEDER LOAD: 29.50 :AMPS
FED FROM:
FEEDER LENGTH:
INTERRUPT. CAPACITY:

FROM PANEL : LCP-1A
MOUNTING : SURFACE
LOCATION : OFFICE
CONTROL CIRCUIT: A-26

RELAY NO.	LOAD DESCRIPTION	PANEL	CKT NO.	# POLES	WATTS	LOCATION
1-1	BASEMENT SIGNS	A	1	1	900	BASE
1-2	BASEMENT SIGNS	A	3	1	900	BASE
1-3	BASEMENT CEILING	A	5	1	1046	E-W
1-4	BASEMENT CEILING	A	7	1	540	CTR
1-5	GROUND LEVEL	A	9	1	594	EAST
1-6	GROUND LEVEL	A	9	1	730	E-W
1-7	GROUND LEVEL WALKWAY	A	11	1	942	N-S-B
1-8	GROUND LEVEL	A	13	1	510	WEST
1-9	GROUND LEVEL	A	13	1	470	CTR-W
1-10	GROUND LEVEL	A	15	1	243	CTR
1-11	GROUND LEVEL	A	15	1	319	N
1-12	GROUND LEVEL SIGN	A	15	1	600	S
1-13	SECOND LEVEL	A	17	1	630	N-S
1-14	SECOND LEVEL	A	17	1	470	EAST
1-15	SECOND LEVEL	A	19	1	470	WEST
1-16	SECOND LEVEL	A	19	1	702	E-W
1-17	SECOND LEVEL	A	21	1	216	N-S
1-18	SECOND LEVEL	A	21	1	940	CTR E-W
1-19	SECOND LEVEL	A	23	1	486	CTR
1-20	SECOND LEVEL	A	25	1	1600	SCONCE
1-21	THIRD LEVEL	A	27	1	630	N-S
1-22	THIRD LEVEL	A	27	1	470	EAST
1-23	THIRD LEVEL	A	29	1	470	WEST
1-24	THIRD LEVEL	A	29	1	702	E-W
1-25	THIRD LEVEL	A	2	1	216	N-S
1-26	THIRD LEVEL	A	2	1	940	CTR E-W
1-27	THIRD LEVEL	A	4	1	486	CTR
1-28	FOURTH LEVEL	A	6	1	630	N-S
1-29	FOURTH LEVEL	A	6	1	470	EAST
1-30	FOURTH LEVEL	A	8	1	470	WEST
1-31	FOURTH LEVEL	A	8	1	702	E-W
1-32	FOURTH LEVEL	A	10	1	216	N-S
1-33	FOURTH LEVEL	A	10	1	940	CTR E-W
1-34	FOURTH LEVEL	A	12	1	486	CTR
1-35	FIFTH LEVEL	A	14	1	630	N-S
1-36	FIFTH LEVEL	A	14	1	470	EAST
1-37	FIFTH LEVEL	A	16	1	470	WEST
1-38	FIFTH LEVEL	A	16	1	702	E-W
1-39	FIFTH LEVEL	A	18	1	216	N-S
1-40	FIFTH LEVEL	A	18	1	940	CTR E-W
1-41	FIFTH LEVEL	A	20	1	486	CTR
1-42	FIFTH LEVEL	A	20	1	314	6
1-43	FIFTH LEVEL	A	20	1	162	6
1-44	SIXTH LEVEL	A	22,24	2	2280	6
1-45	SIXTH LEVEL			-		
1-46	BOLLARDS MAIN ENTRY	A	31	1	250	GND
1-47	SIXTH LEVEL SPOTS	A	30	1	1080	ROOF
1-48	SIXTH LEVEL SPOTS	A	32	1	1080	ROOF

FROM PANEL : LCP-2B
MOUNTING : SURFACE
LOCATION : OFFICE
CONTROL CIRCUIT: B-16

RELAY NO.	LOAD DESCRIPTION	PANEL	CKT NO.	# POLES	WATTS	LOCATION
2-1	BASEMENT CEIL	B	1	1	650	E-W
2-2	GROUND LEVEL	B	3	1	630	E-W
2-3	GROUND LEVEL	B	3	1	162	CTR
2-4	GROUND LEVEL	B	3	1	162	N-S
2-5	SECOND LEVEL	B	5	1	702	E-W
2-6	SECOND LEVEL	B	5	1	216	N-S
2-7	SECOND LEVEL	B	7	1	486	CTR
2-8	THIRD LEVEL	B	9	1	702	E-W
2-9	THIRD LEVEL	B	9	1	216	N-S
2-10	THIRD LEVEL	B	11	1	486	CTR
2-11	FOURTH LEVEL	B	13	1	702	E-W
2-12	FOURTH LEVEL	B	13	1	216	N-S
2-13	FOURTH LEVEL	B	15	1	486	CTR
2-14	FIFTH LEVEL	B	2	1	702	E-W
2-15	FIFTH LEVEL	B	2	1	216	N-S
2-16	FIFTH LEVEL	B	4	1	486	CTR
2-17	FIFTH LEVEL	B	4	1	162	6
2-18	STAIR TOWER	B	6	1	119	NE
2-19	STAIR TOWER	B	8	1	900	NW
2-20	STAIR TOWER	B	10	1	900	SE
2-21	STAIR TOWER	B	12	1	1100	SW
2-22	FRONT SIGN	B	17	1	1200	NW
2-23	FRONT SIGN	B	19	1	1200	NE
2-24	FRONT SIGN	B	21	1	1200	NE
2-25	WEST SIGN	B	23	1	1200	WEST
2-26	SPARE			1		
2-27	SPARE			1		
2-28	SPARE			1		
2-29	SPARE			1		
2-30	SPARE			2		
2-31	-	-	-	-	-	-
2-32						
2-33						
2-34						
2-35						
2-36						

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT

STATUS/REVISIONS

WAK Engineers-Architects-Consultants
William A. Kibbe & Associates, Inc.
1475 S. Washington Avenue, Saginaw, MI 48601

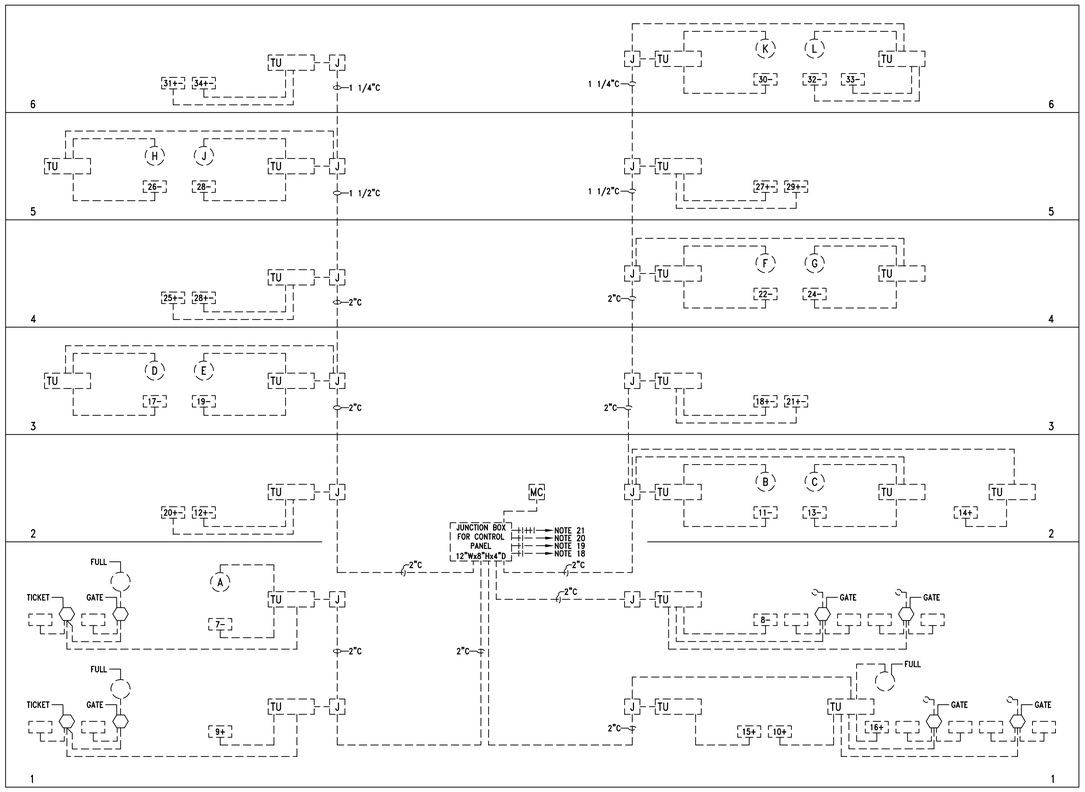
PROJECT:
Renovation to:
DOW EVENT CENTER
PARKING RAMP

DRAWN BY: B.J. RIEBENACK
DESIGNED BY: P.A. TANNER
CHECKED BY: P.A. TANNER
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: ELECTRICAL PANEL SCHEDULES

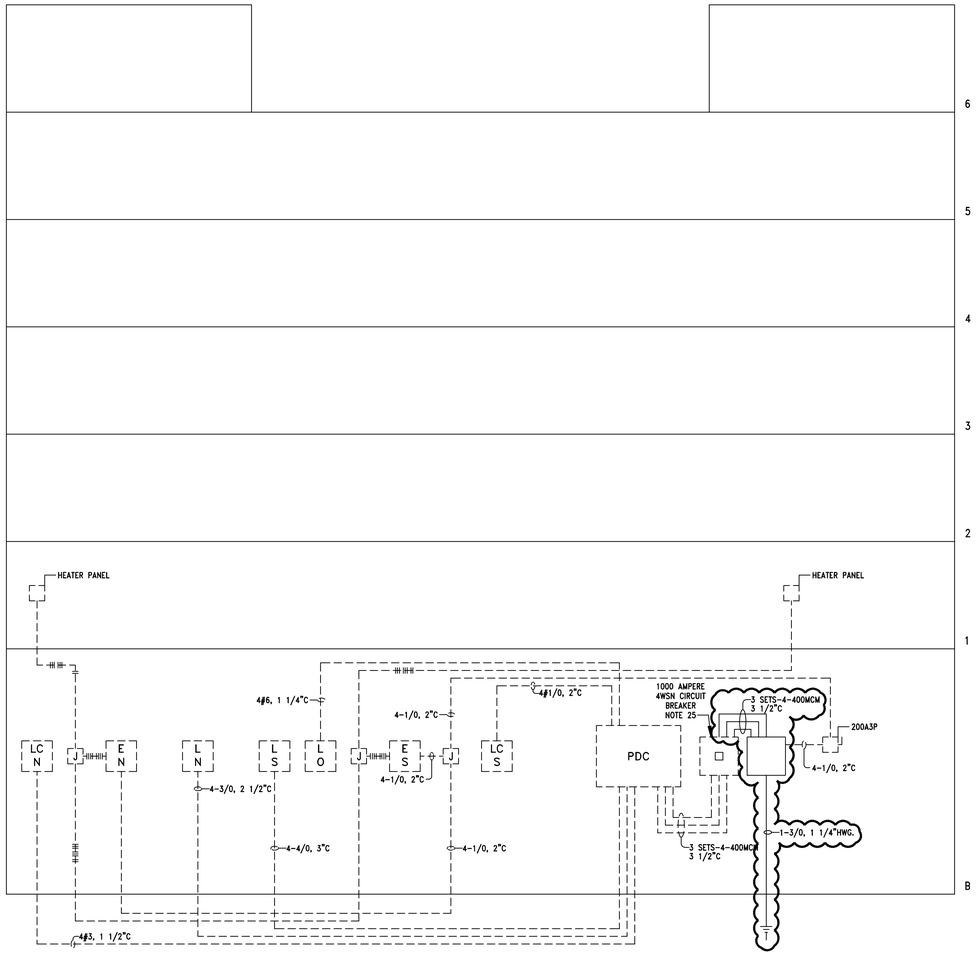
DRAWING NUMBER: E6.2

SHEET 1 OF 1



1 E7.1 RISER DIAGRAM REVENUE CONTROL SYSTEM – DEMOLITION

SCALE: NONE



2 E7.1 RISER DIAGRAM – DEMOLITION

SCALE: NONE

GENERAL DEMOLITION NOTES:

1. ALL ITEMS SHOWN AS DASHED TO BE DISCONNECTED AND REMOVE WITH ALL CONDUIT AND WIRE TO SOURCE.

REV. #	DATE	DESCRIPTION	BY
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	07-23-12	ISSUED FOR BID	PT

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William A. Kibbe & Associates, Inc.
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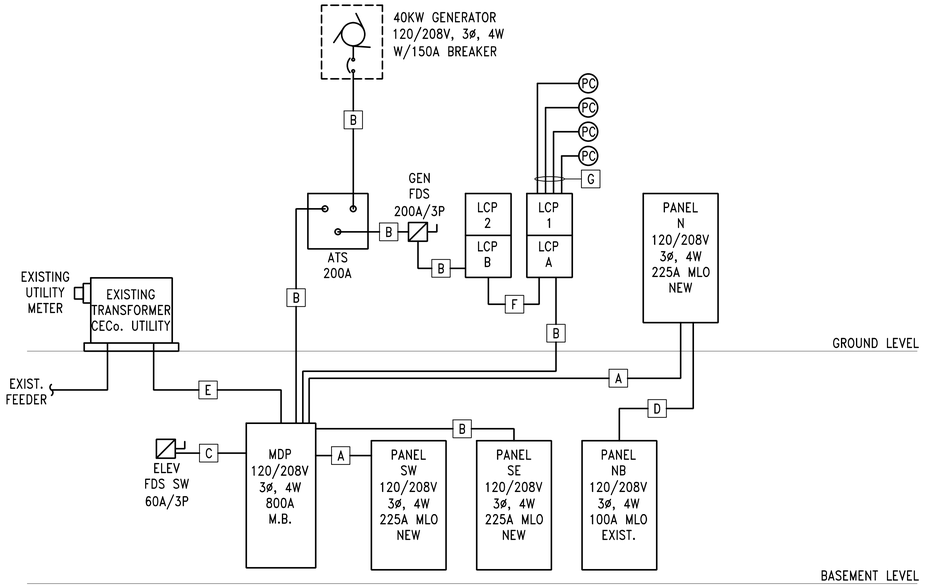
PROJECT NUMBER: 12-0462-0189

SHEET TITLE: EXISTING RISER DIAGRAMS ELECTRICAL

DRAWING NUMBER: E7.1

SHEET 1 OF 1



1 / E7.2 **RISER DIAGRAM**

SCALE: NONE

WIRE SCHEDULE:

A	2"C W/4-#4/0 THWN, PLUS 1-#2 GND.
B	2"C W/4-#2/0 THWN, PLUS 1-#4 GND.
C	1"C W/3-#6 THWN, PLUS 1-#8 GND.
D	1"C W/4-#6 THWN, PLUS 1-#8 GND.
E	EXISTING CONDUIT AND WIRE, EXTEND AS REQUIRED.
F	CONTROL WIRE BELDEN #9841 RS-485, VERIFY WITH MANUFACTURER.
G	3/4"C W/18-3 STRANDED CABLE

GENERAL DEMOLITION NOTES:

1. ALL ITEMS SHOWN AS DASHED TO BE DISCONNECTED AND REMOVE WITH ALL CONDUIT AND WIRE TO SOURCE.

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	07-23-12	ISSUED FOR BID	PT

STATUS/REVISIONS

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1415 S. Washington Avenue, Saginaw, MI 48601

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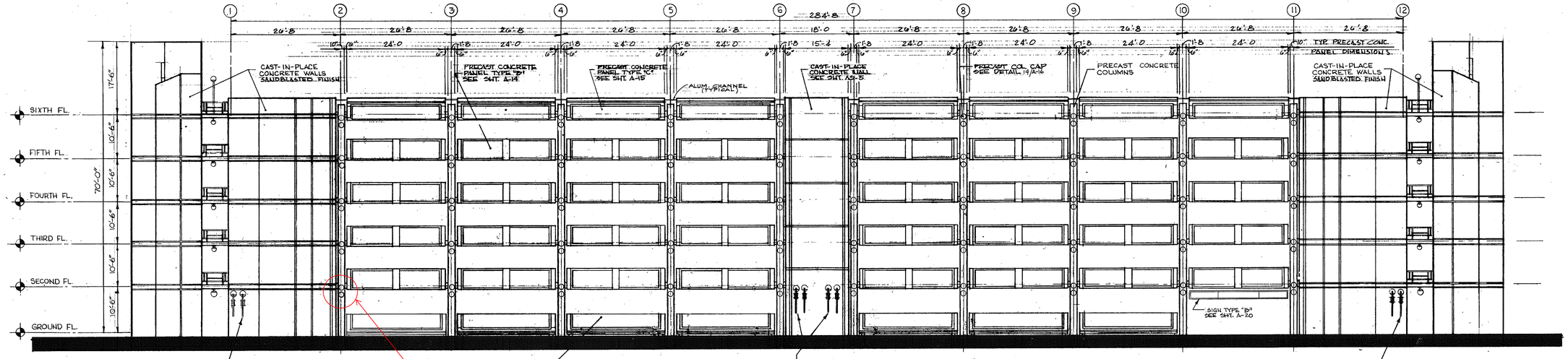
APPROVED BY: T.H. MINER
PROJECT NUMBER: 12-0462-0189

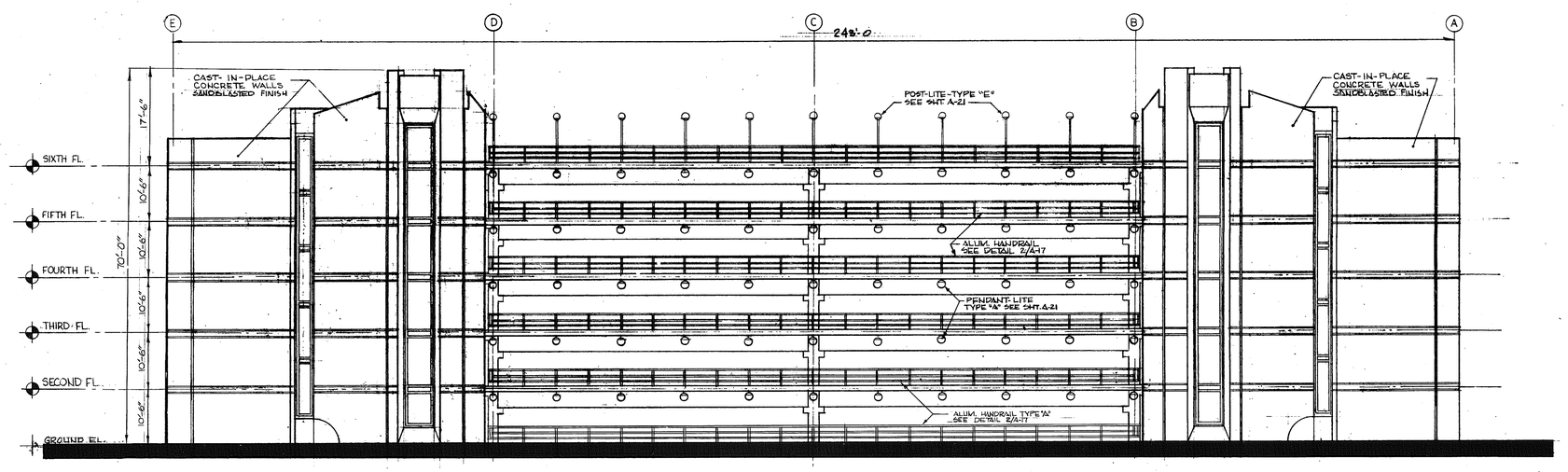
SHEET TITLE: RISER DIAGRAM ELECTRICAL

DRAWING NUMBER: E7.2

SHEET 1 OF 1



WEST ELEVATION 1/A-11



SOUTH ELEVATION 2/A-11

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NO.	DATE	REVISIONS	BY
1	3-12-73	AS BUILT DWGS: COLUMN CAP & ALUM. CHANNEL	RM

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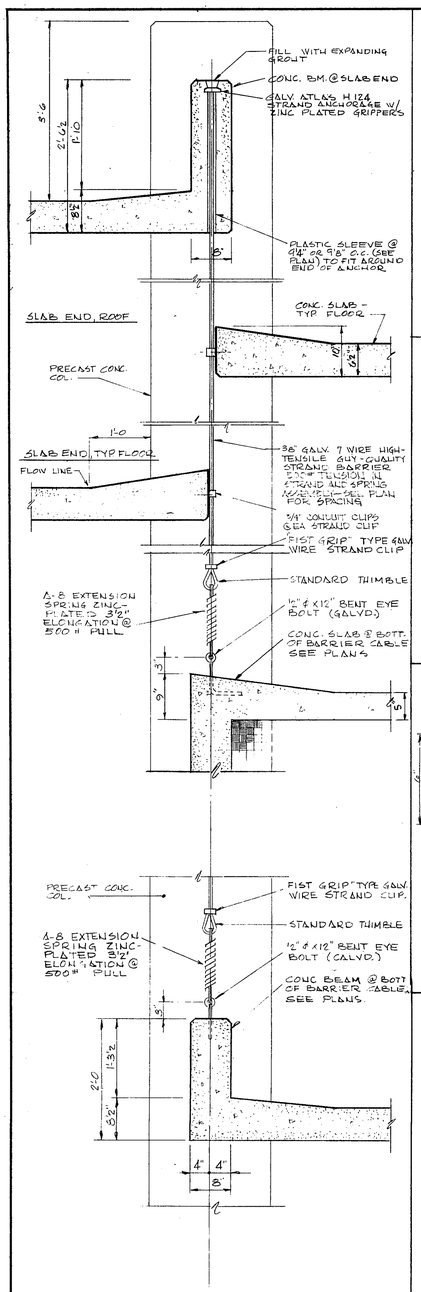
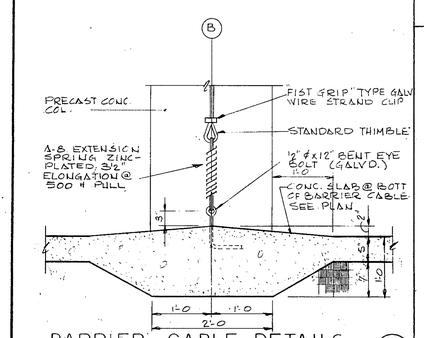
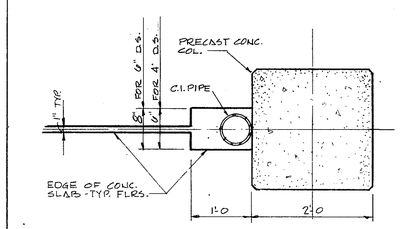
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
ELEVATIONS SOUTH AND WEST
SCALE: 3/32" = 1'-0"

DRWG. NO. A-11
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN I.I.K. DRAWN F.M. CHECK

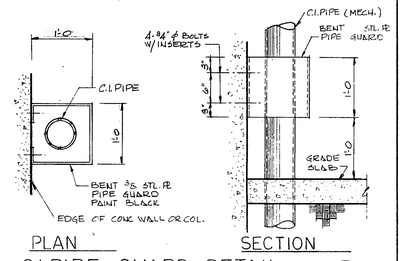




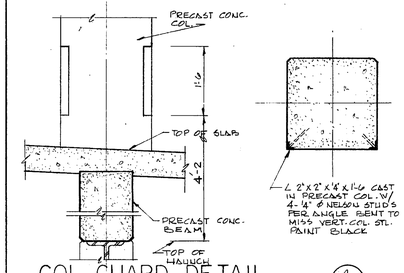
BARRIER CABLE DETAILS (1, A-16)



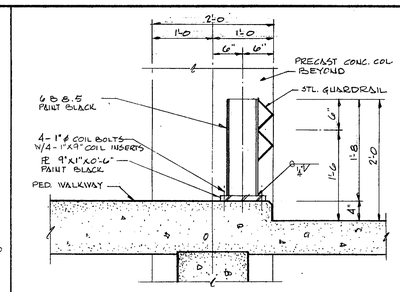
C.I.P. BLOCKOUT DETAIL (2, A-16) — 1" = 1'-0



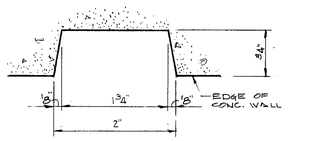
C.I. PIPE GUARD DETAIL (3, A-16) — 1" = 1'-0



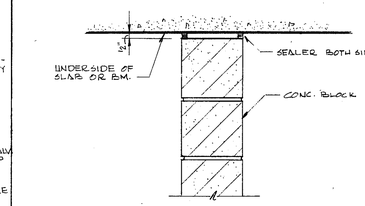
COL. GUARD DETAIL (4, A-16) — 3/4" = 1'-0



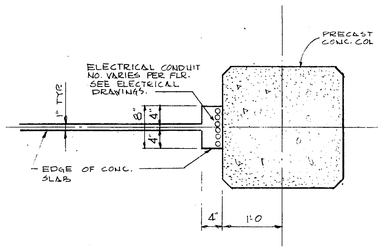
STL. GUARDRAIL DETAIL (5, A-16) — 1" = 1'-0



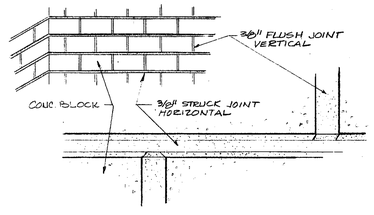
CONC. SCORING DETAIL (6, A-16) — FULL SIZE



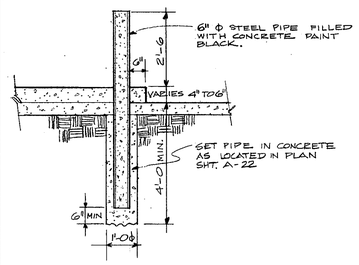
TOP OF CONC. BLK. WALL (7, A-16) — 1½" = 1'-0



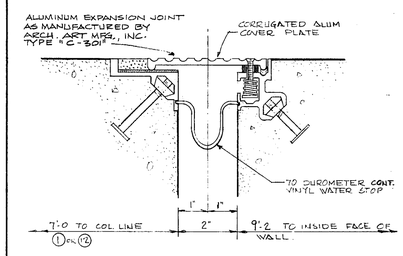
ELECT. BLOCKOUT DETAIL (8, A-16) — 1" = 1'-0



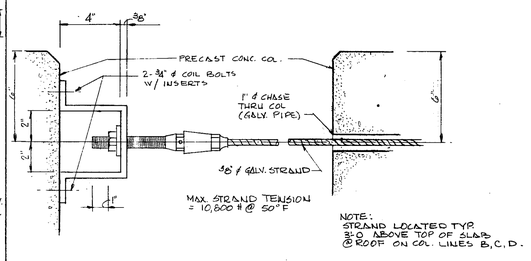
TYP. CONC. BLK. JT. DETAIL (9, A-16) — NO SCALE



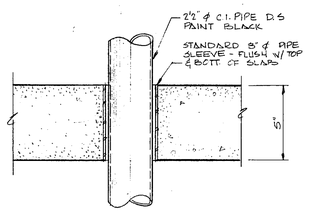
STEEL PIPE GUARD (10, A-16) — 1/2" = 1'-0



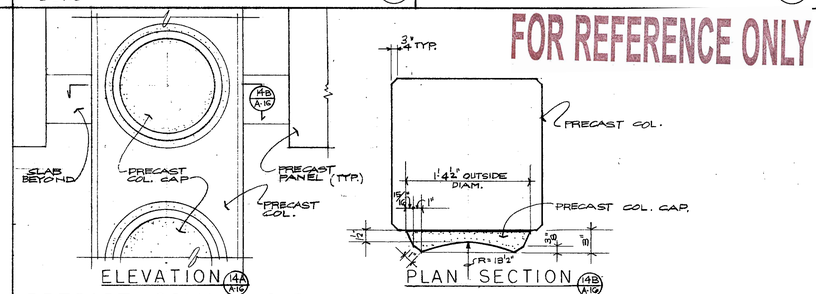
STAIR & ELEV. EXP. JT. DETAIL (11, A-16) — HALF SIZE



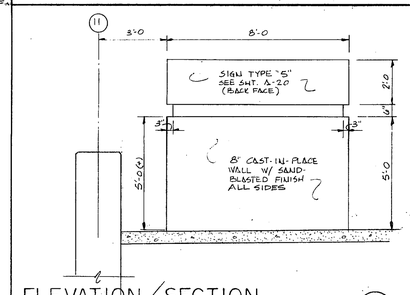
DETAIL OF HORIZ. STRAND RAIL (12, A-16) — 3" = 1'-0



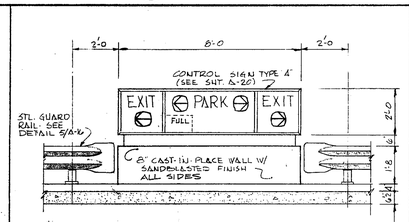
D.S. DETAIL @ STAIR (13, A-16) — 3" = 1'-0



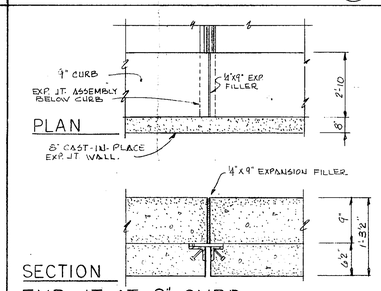
PRECAST COLUMN CAP DETAIL (14, A-16) — 1½" = 1'-0"



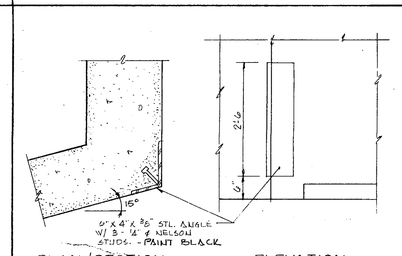
ELEVATION / SECTION (15, A-16) — 3/8" = 1'-0



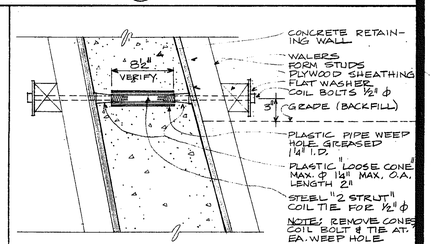
ELEVATION / SECTION (16, A-16) — 3/8" = 1'-0



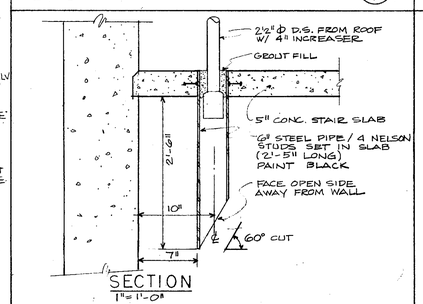
EXP. JT. AT 9" CURB (17, A-16) — N.T.S.



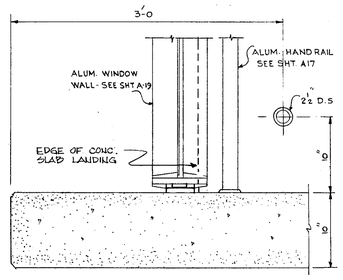
WING WALL CORNER GUARD (18, A-16) — 1½" = 1'-0" / 3/4" = 1'-0



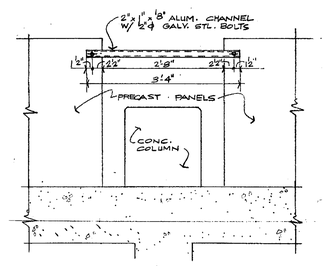
RETAINING WALL DETAIL (19, A-16) — 1½" = 1'-0"



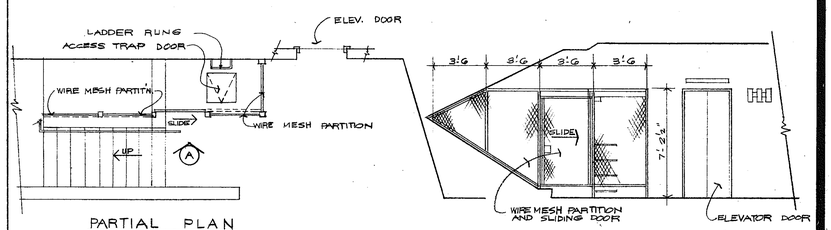
DOWNSPOUT (20, A-16) — 1" = 1'-0"



DOWNSPOUT PLAN AT STAIR (21, A-16) — 1½" = 1'-0



ELEVATION / SECTION (22, A-16) — 3/4" = 1'-0"



WIRE MESH PARTITION FOR STAIR TOWER NO. 1 & 3 (23, A-16)

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NO.	DATE	REVISIONS	BY
1	3-12-72	AS BUILT DWGS: DET. 14/A-16 CHANGED, DET. 22/A-16 & 23/A-16 ADDED	RM

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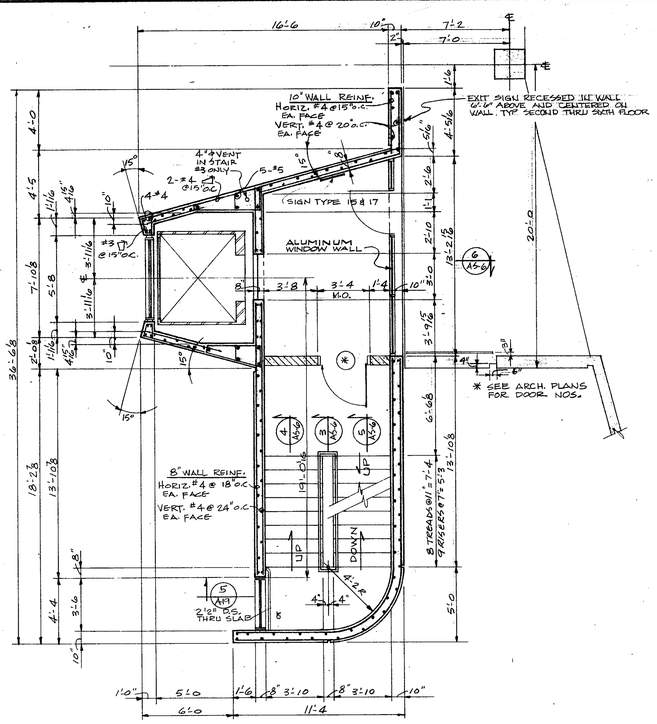
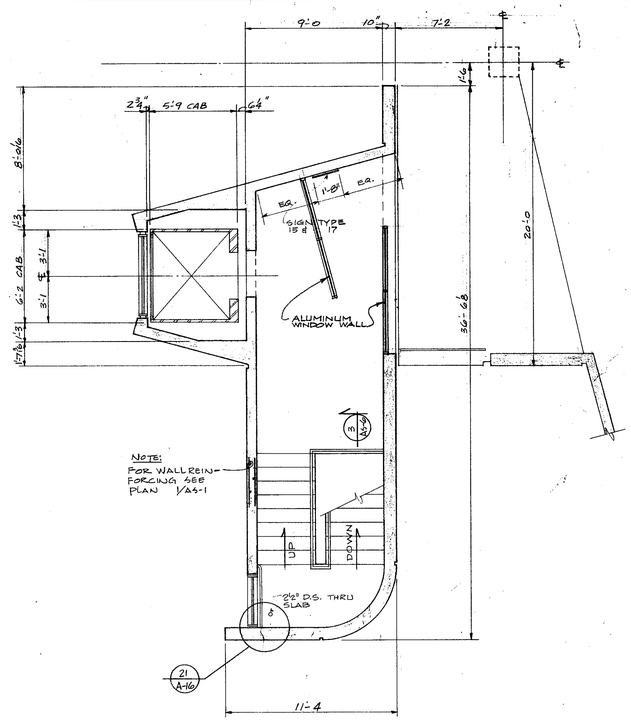
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
DETAILS

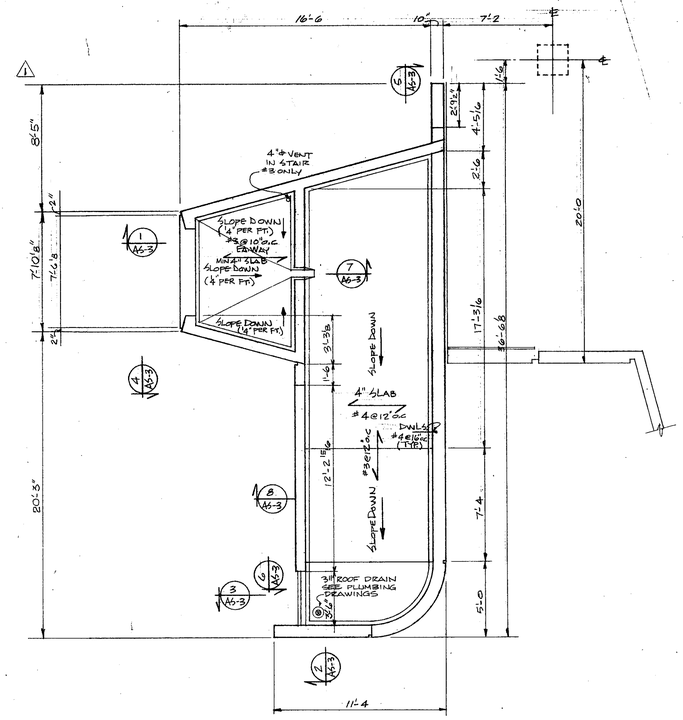
DRWG. NO. A-16
JOB NO. 69426
DATE JULY 15, 1970
DESIGN IIK | DRAWN | CHECK



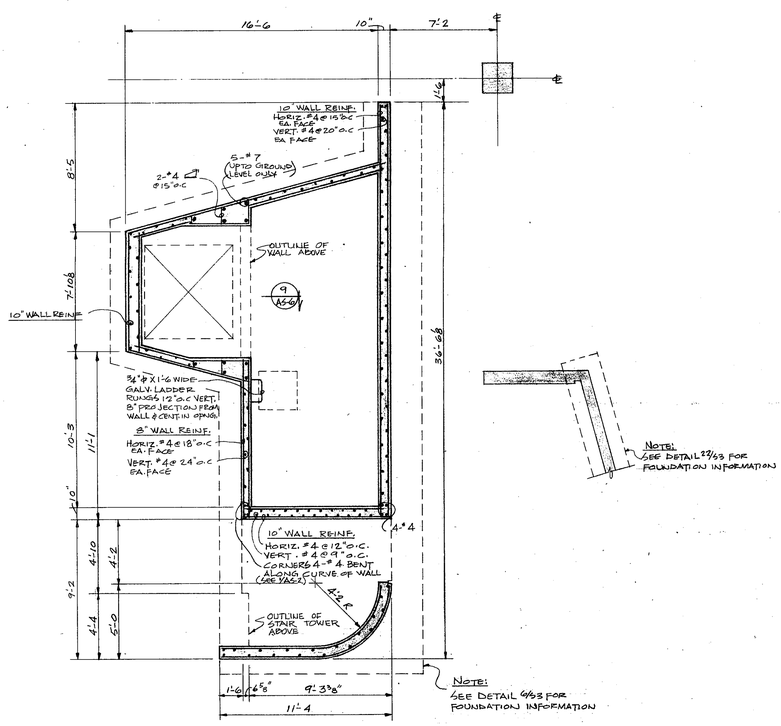
TYPICAL FL. PLAN (1 / AS-1)



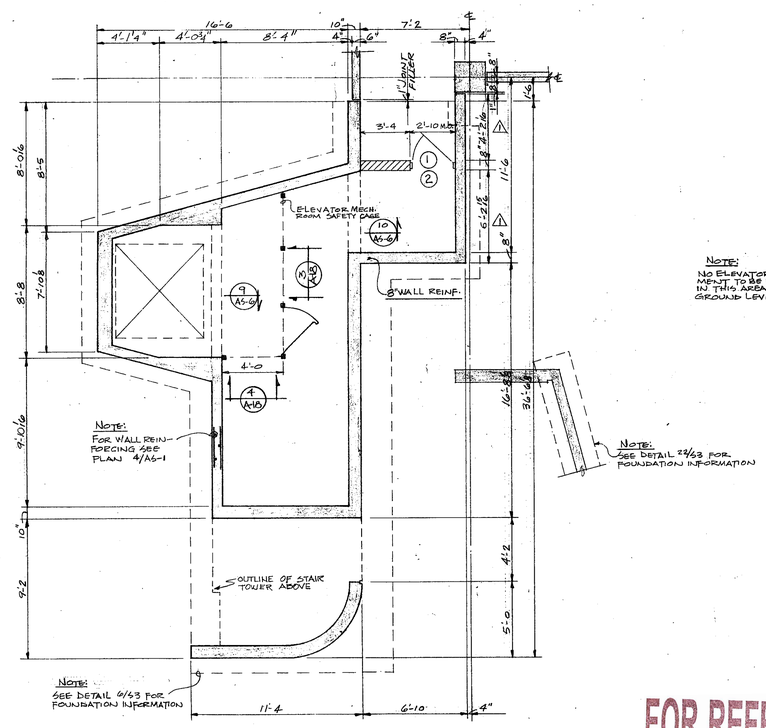
SIXTH FL. PLAN (2 / AS-1)



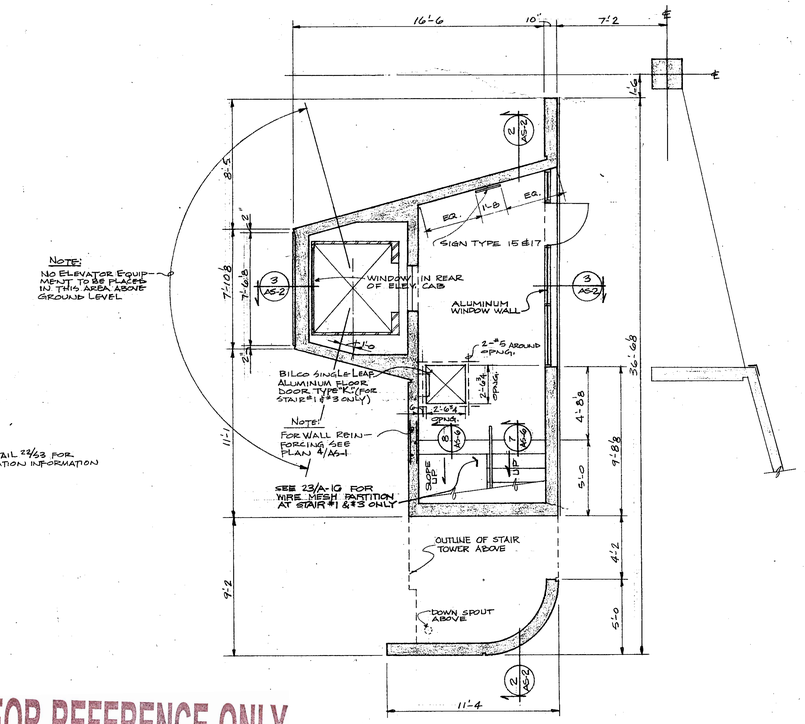
ROOF PLAN (3 / AS-1)



ELEVATOR MECH. ROOM (4 / AS-1)
Nº 1 AND Nº 3 (NORTH)



ELEVATOR MECH. ROOM (5 / AS-1)
Nº 2 AND Nº 4 (SOUTH)



GROUND FL. PLAN (6 / AS-1)

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NO.	DATE	REVISIONS	BY	APP.
1	11-5-70	REVISION OF DIMENSIONS	EBR	
2	3-12-73	AS BUILT DWGS: ALUM. WDO. WALL	RM	

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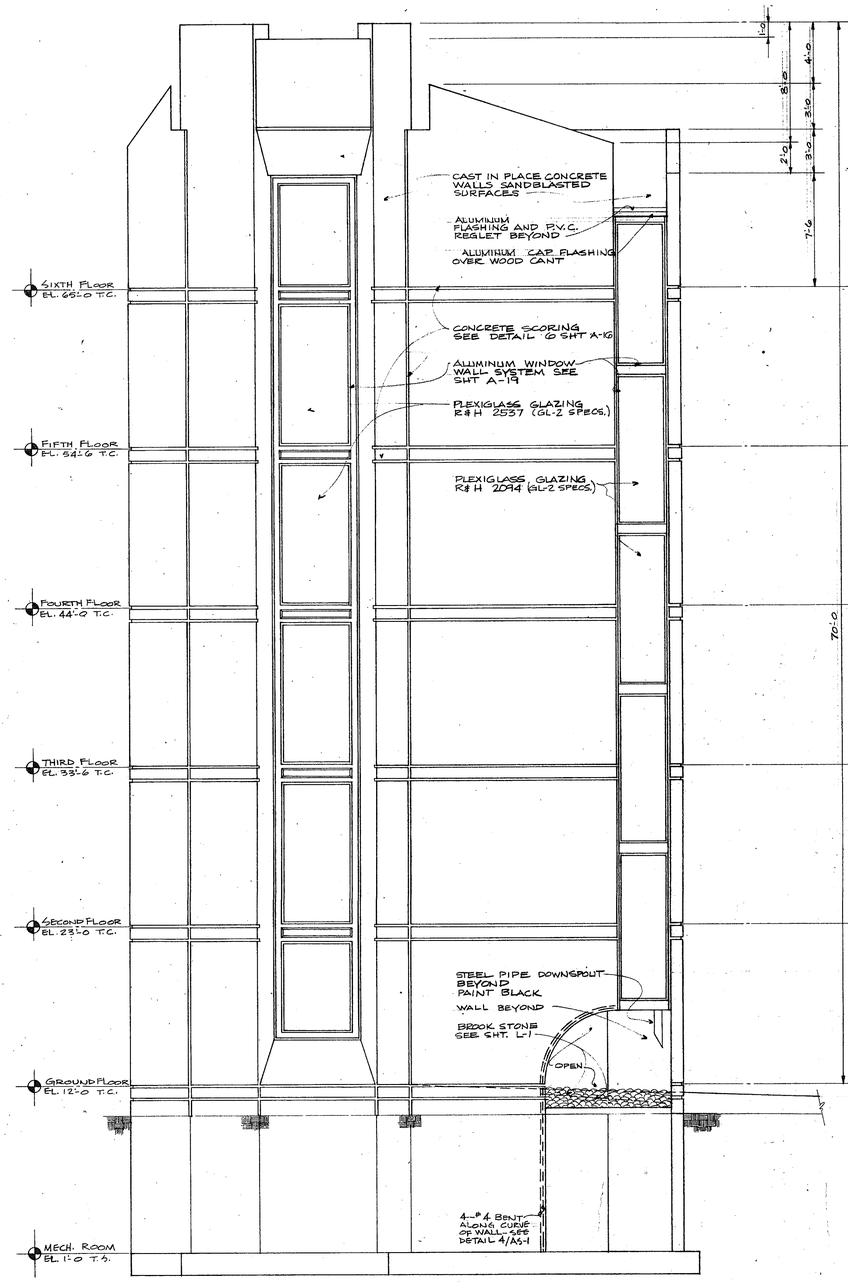
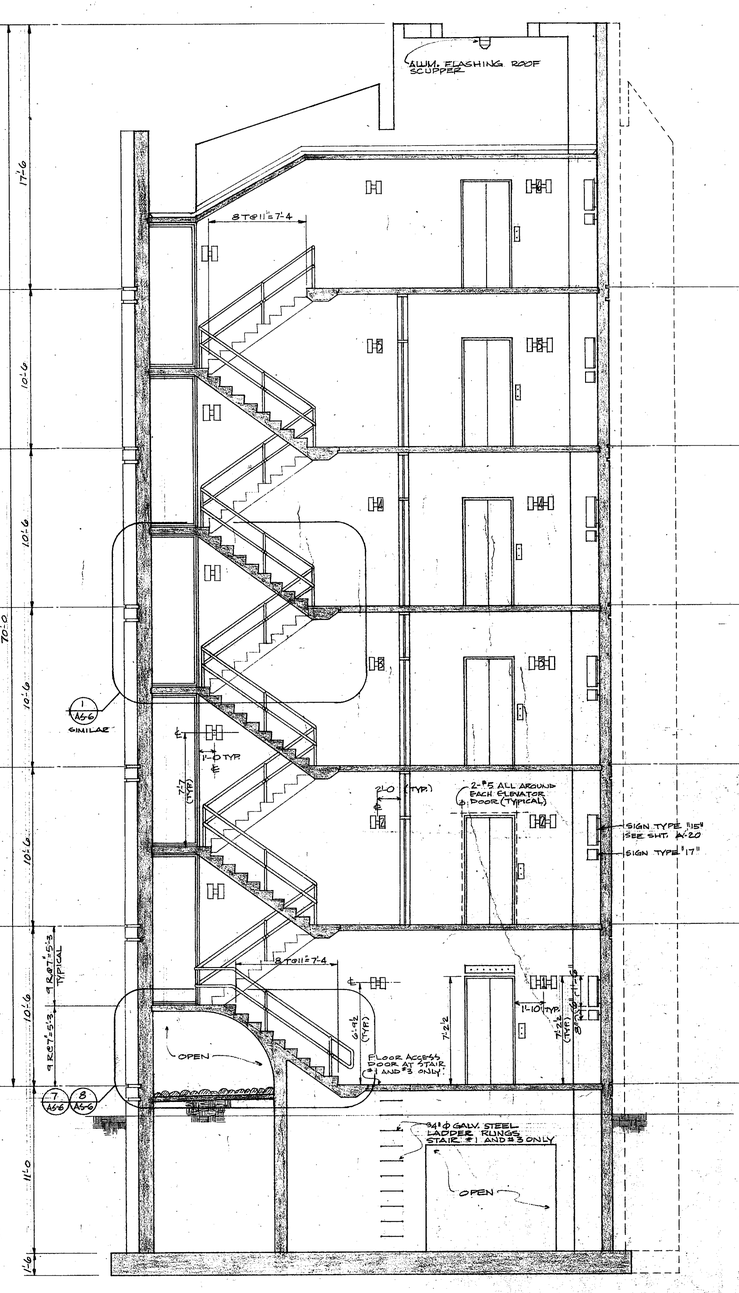
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW, MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
STAIR & ELEVATOR CORE FLOOR PLAN
SCALE 1/4"=1'-0

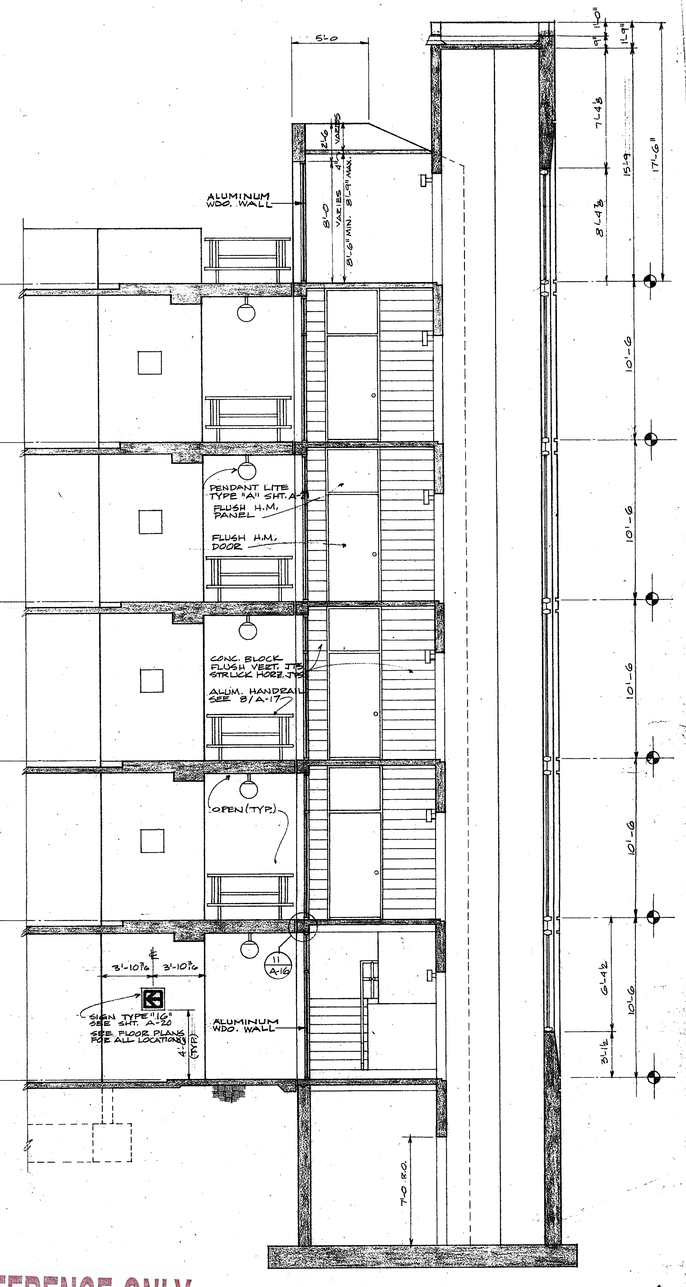
DRWG. NO. AS-1
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN IIK DRAWN TJ CHECK



ELEVATION 1/AS-2



SECTION ELEVATION 2/AS2



SECTION ELEVATION 3/AS-2

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NO.	DATE	REVISIONS	BY
1	8-12-78	AS BUILT DWGS: ALUM. WINDOW WALL	R.M.

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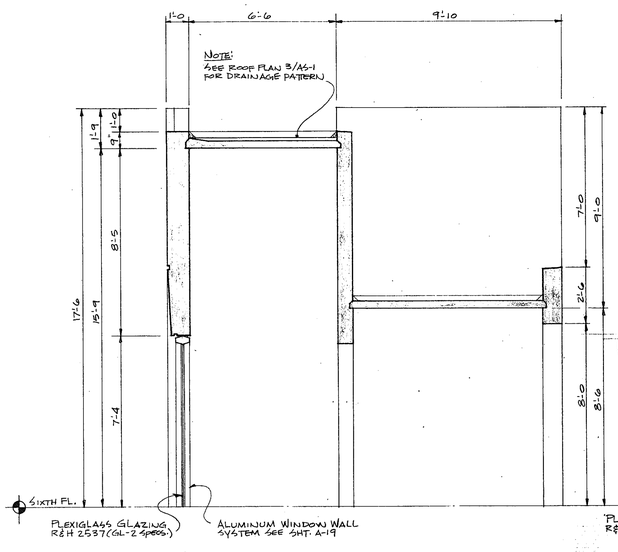
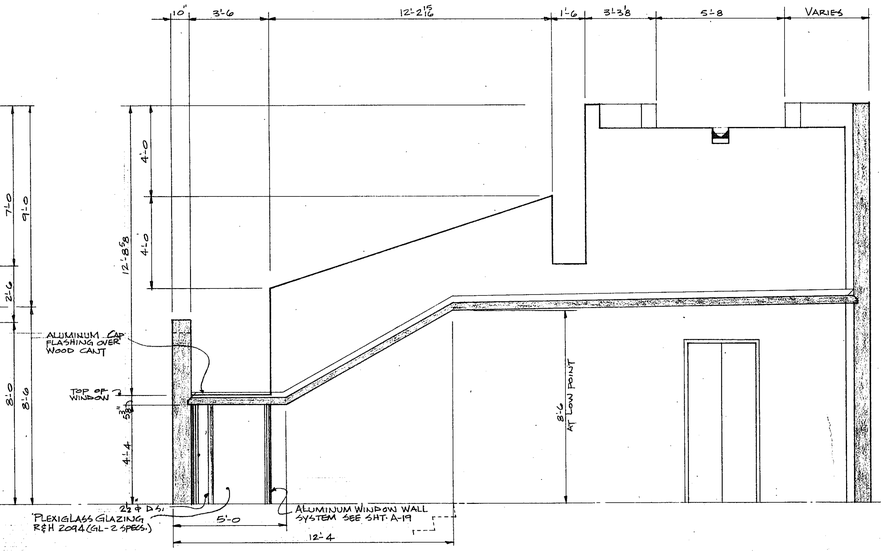
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
STAIR & ELEVATOR CORE SECTIONS
SCALE 1/4" = 1'-0"

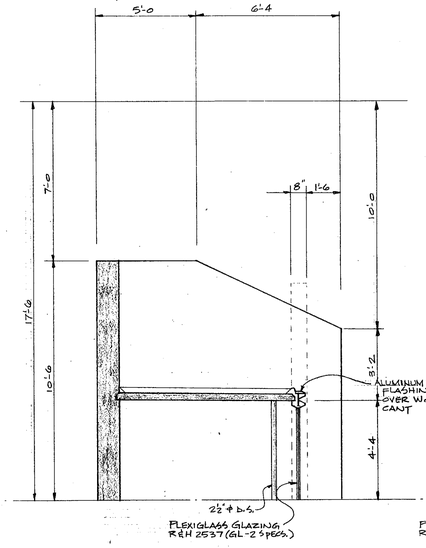
DRWG. NO. AS-2
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN: DRAWN: CHKD.



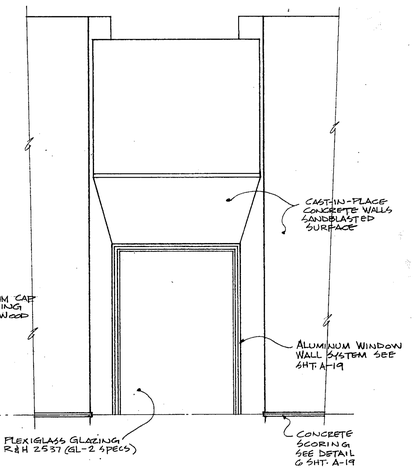
SECTION 1 / AS-3



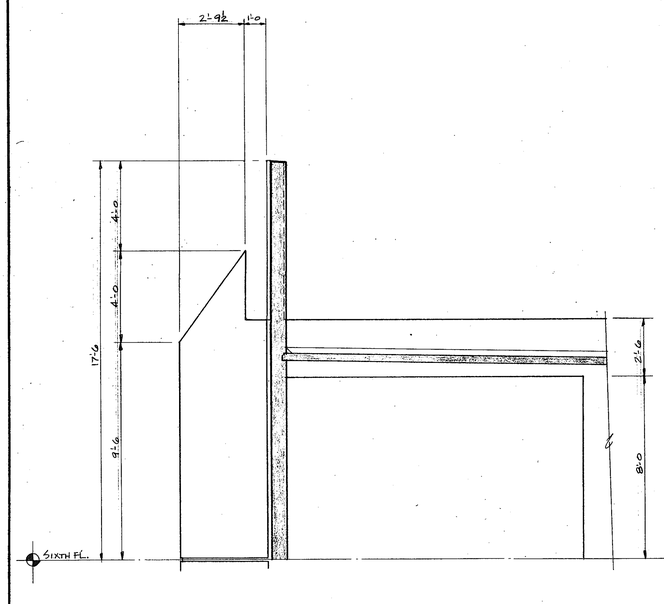
SECTION ELEVATION 2 / AS-3



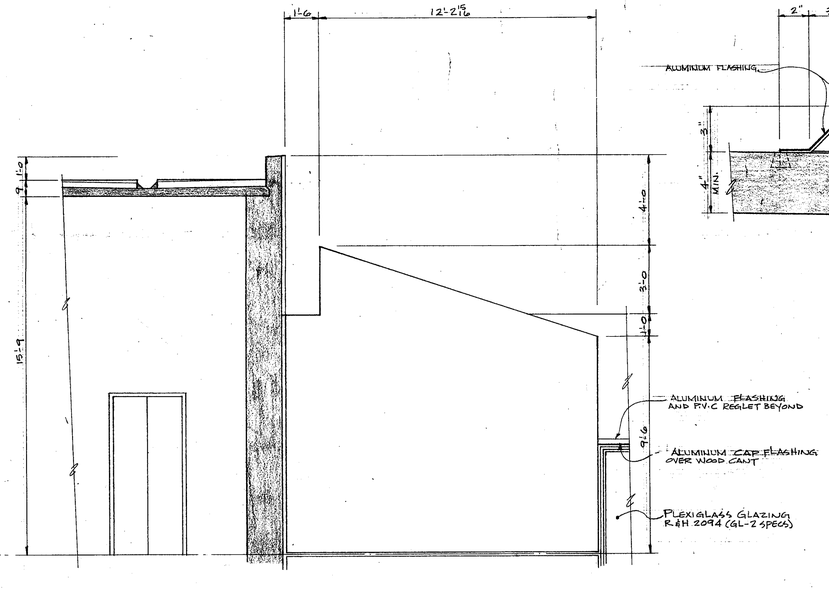
SECTION ELEVATION 3 / AS-3



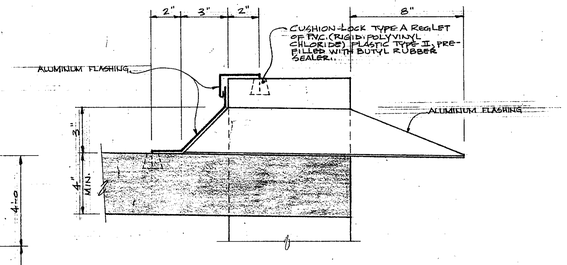
ELEVATION 4 / AS-3



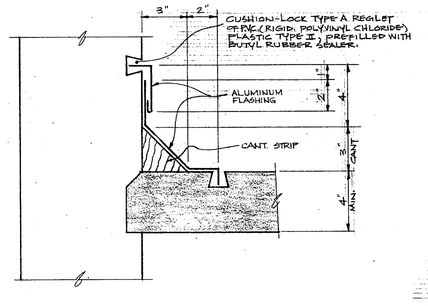
SECTION ELEVATION 5 / AS-3



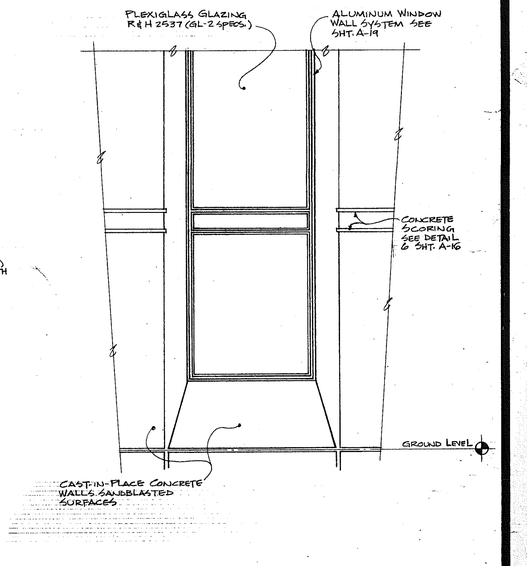
SECTION ELEVATION 6 / AS-3



SECTION 7 / AS-3
SCALE: 3" = 1'-0



SECTION 8 / AS-3
SCALE: 3" = 1'-0



ELEVATION 9 / AS-3

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NO.	DATE	REVISIONS	BY

CONRAD ASSOCIATES, N.
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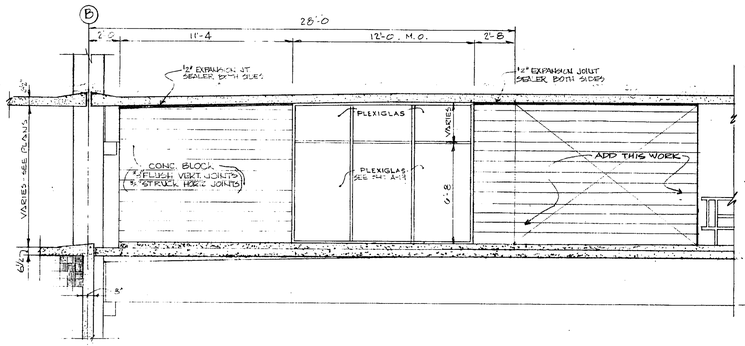
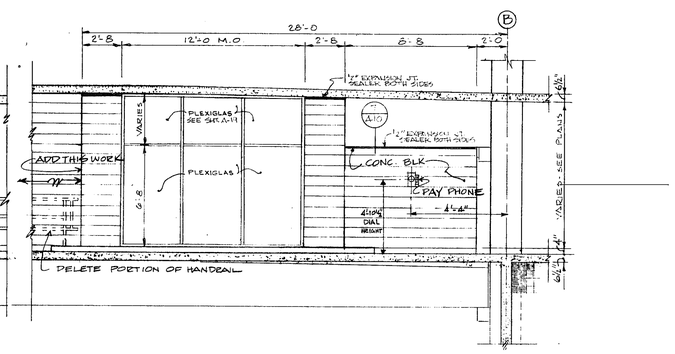
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
STAIR & ELEVATOR SECTION ELEVATIONS AT ROOF

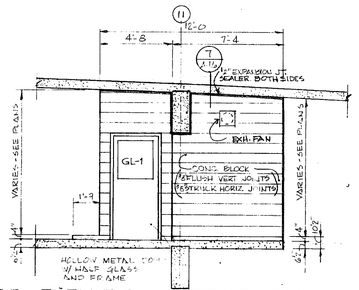
DRWG.: NO. AS-3
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN: J.J.K. DRAWN: TJ CHECK:



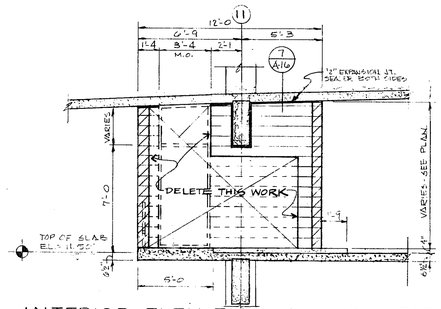
EXTERIOR ELEVATION OFFICE NORTH (1 / A5-4)
REVISED



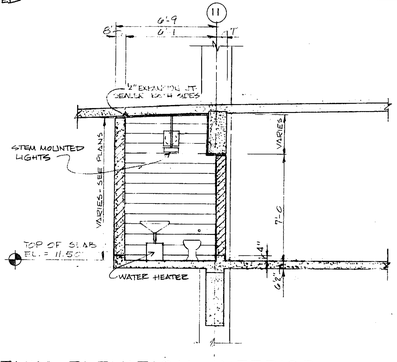
EXTERIOR ELEVATION OFFICE SOUTH (2 / A5-4)
REVISED



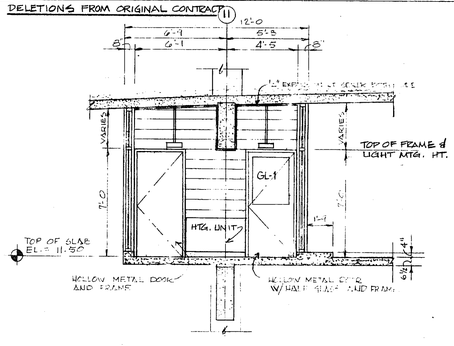
EXTERIOR ELEVATION OFFICE EAST (3 / A5-4)
REVISED



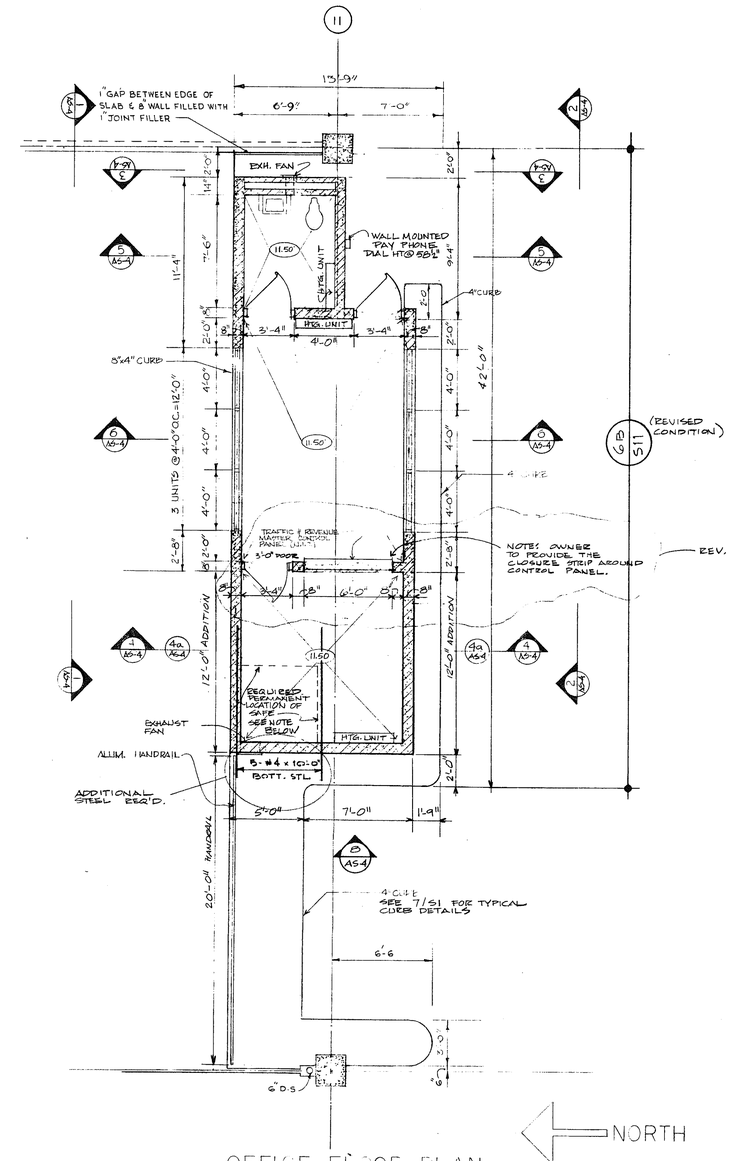
REVISED INTERIOR ELEVATION OFFICE WEST (4 / A5-4)
DELETIONS FROM ORIGINAL CONTRACT



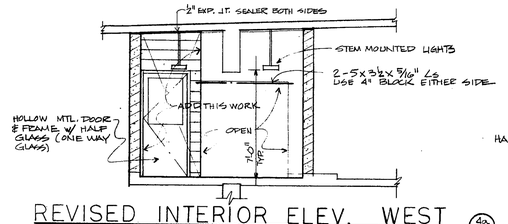
SECTION ELEVATION INTERIOR (5 / A5-4)
REVISED



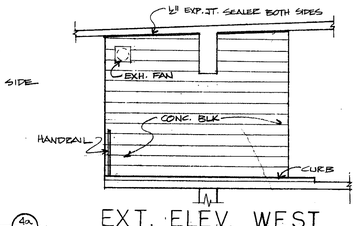
SECTION ELEVATION INTERIOR (6 / A5-4)
REVISED



OFFICE FLOOR PLAN (7 / A5-4)
REVISED



REVISED INTERIOR ELEV. WEST (4a / A5-4)
ADDITIONS TO ORIGINAL CONTRACT



EXT. ELEV. WEST (8 / A5-4)
ADDITIONS TO ORIGINAL CONTRACT

NOTE:
CONTRACTOR TO COORDINATE ARRIVAL OF SAFE TO JOBSITE. SIZE OF SAFE 38 3/4" x 51 1/4" x 75 7/8" MAY AFFECT CLOSURE OF MASONRY OPENINGS, OR SCHEDULING OF SAME

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NO.	DATE	REVISIONS	BY
23A	5-12-71	DIMENSION CHANGES & CLOSURE STEIP	GG
23	3-30-71	OFFICE ADDITION	GG

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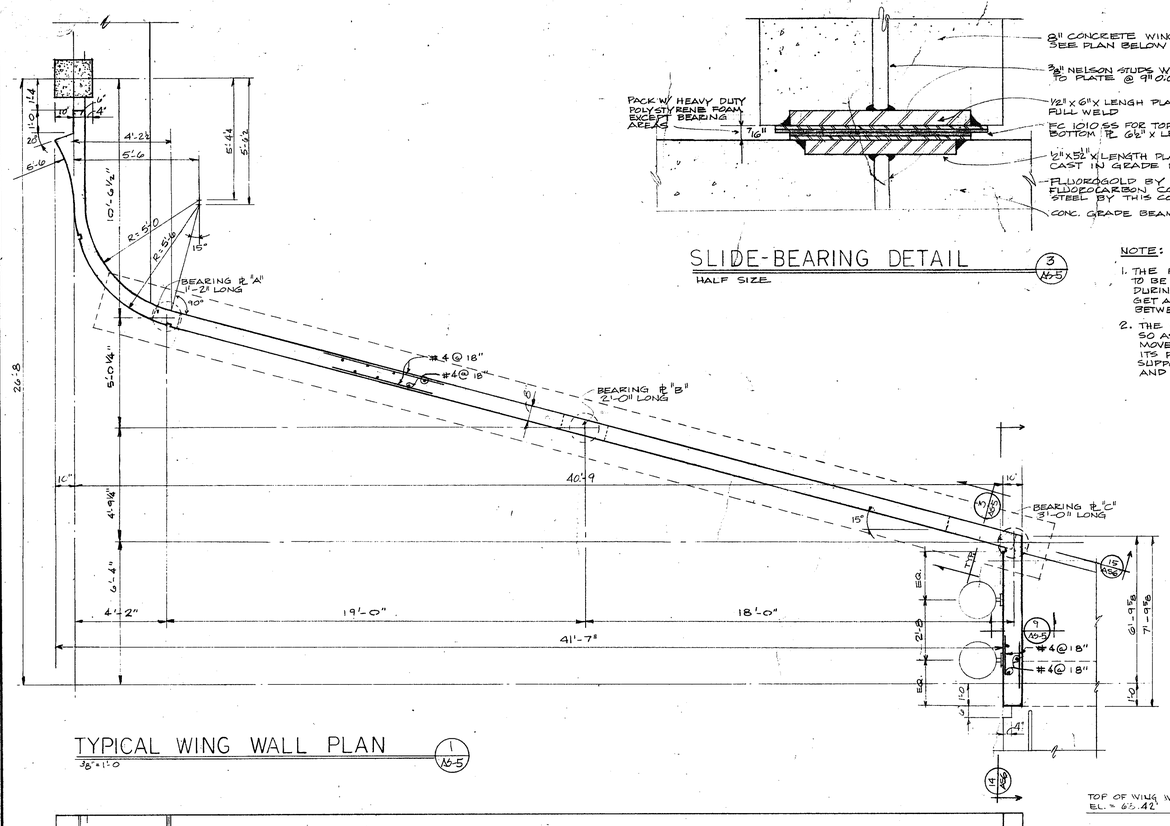
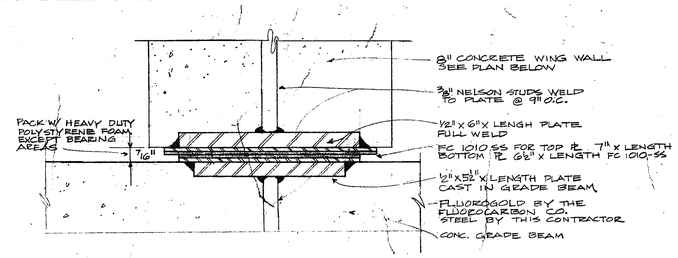
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
OFFICE PLAN & ELEVATIONS SCALE: 1/4"=1'-0"

REV. #	23 1 of 2
DATE:	3-30-71
SUPP. JOB #:	71421
DRWG.: NO.	AS-4
JOB NO.	69426
DATE:	JULY 15, 1970
DESIGN	LK
DRAWN	EM
CHECK	GG



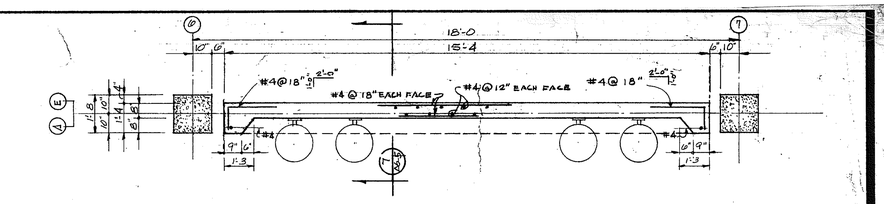
TYPICAL WING WALL PLAN (1 / 16-5)
3/8" = 1'-0"



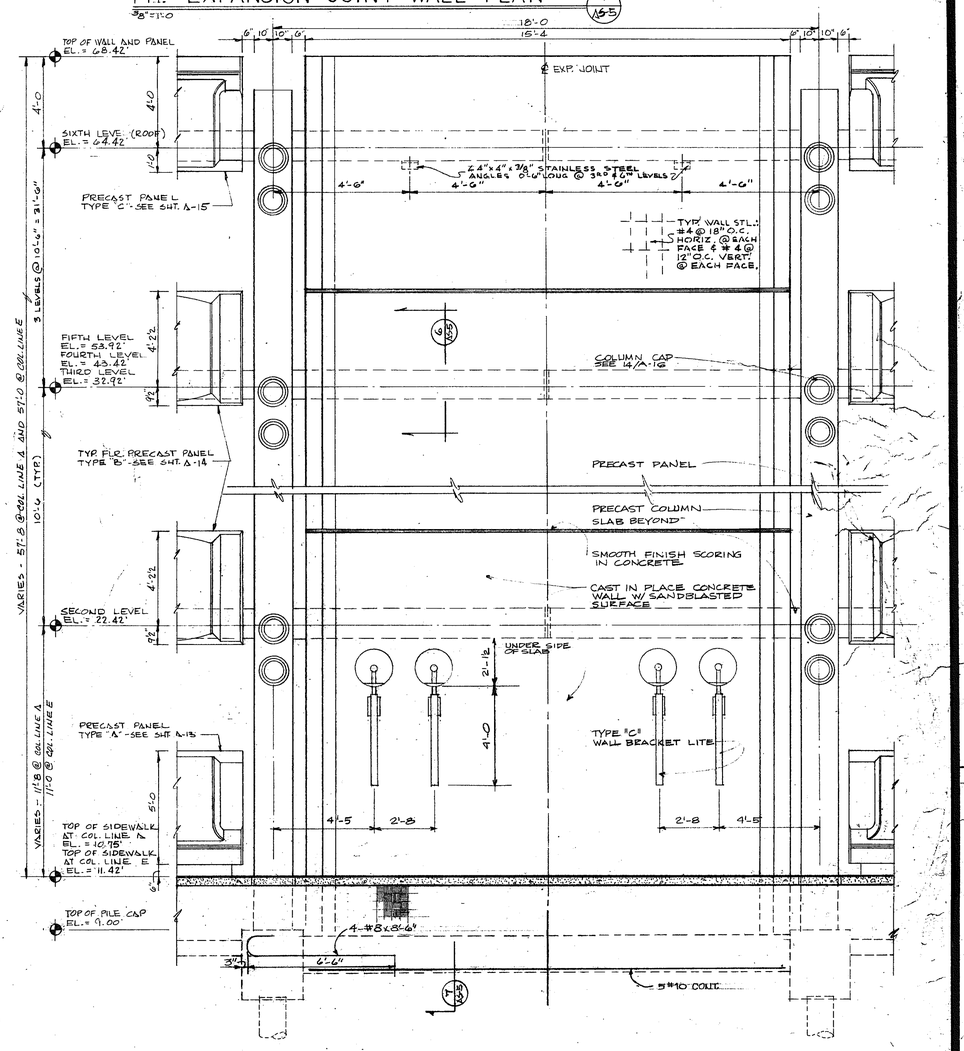
SLIDE-BEARING DETAIL (3 / 16-5)
HALF SIZE

NOTE:

1. THE FLUROGOLD PLATES HAVE TO BE ADEQUATELY PROTECTED DURING POURING SO AS NOT TO GET ANY DUST PARTICLES BETWEEN THEM.
2. THE WING WALL MUST BE SHORED SO AS NOT TO ALLOW ANY HORIZONTAL MOVEMENT PERPENDICULAR TO ITS PLANE AT LEAST UNTIL TWO SUPPORTED LEVELS ARE POURED AND CONNECTIONS MADE.

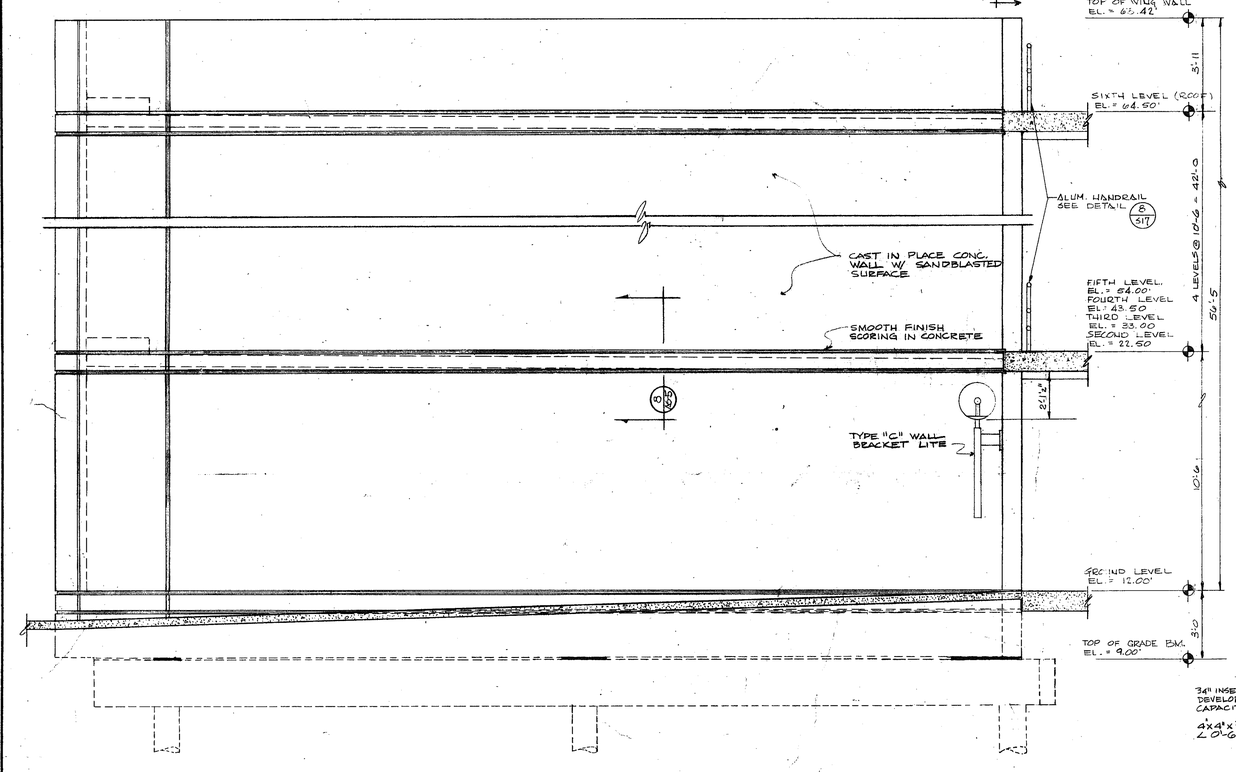


TYP. EXPANSION JOINT WALL PLAN (4 / 16-5)
3/8" = 1'-0"

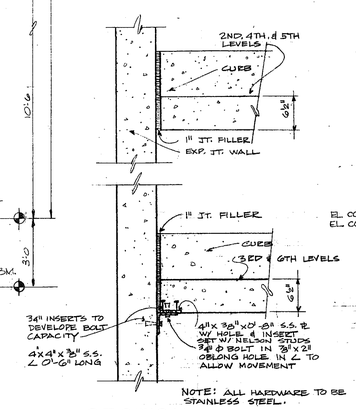


TYP. EXPANSION JOINT WALL ELEVATION (5 / 16-5)
3/8" = 1'-0"

FOR REFERENCE ONLY

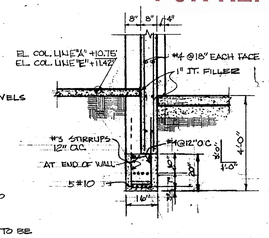


TYPICAL WING WALL ELEVATION (2 / 16-5)
3/8" = 1'-0"

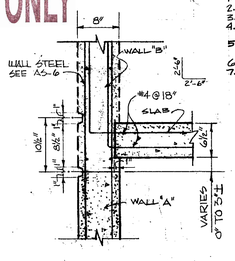


NOTE: ALL HARDWARE TO BE STAINLESS STEEL.

SECTION (6 / 16-5)
1" = 1'-0"



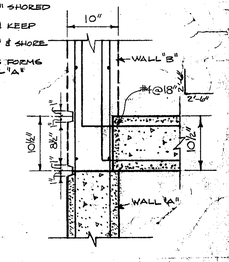
SECTION (7 / 16-5)
3/8" = 1'-0"



SECTION (8 / 16-5)
1" = 1'-0"

CONSTRUCTION SEQUENCE

1. POUR WALL "A"
2. KEEP WALL "A" SHORED
3. POUR SLAB
4. STRESS SLAB & KEEP SLAB FORMS
5. POUR WALL "B" & SHORE WALL "B"
6. REMOVE SLAB FORMS
7. REMOVE WALL "A" SHORING



SECTION (9 / 16-5)
1" = 1'-0"

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NO.	DATE	REVISIONS	BY
1	3-12-73	AS BUILT DWGS: COLUMN CAP	R.M.

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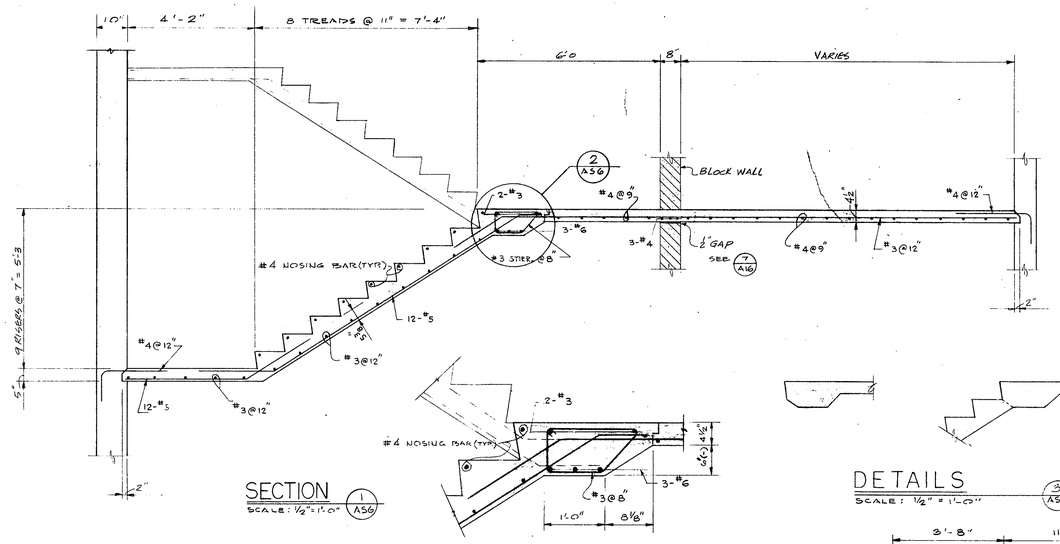
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW, MICHIGAN
CITY OF SAGINAW BUILDING AUTHORTY
WING WALL & EXPANSION JOINT WALL PLAN & DETAILS

DRWG. NO. A5-5
JOB NO. 69426
DATE JULY 15, 1970
DESIGN IIK DRAWN AB CHECK



SECTION 1 A5.6
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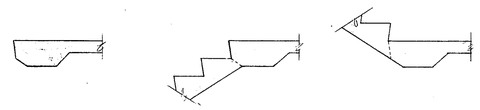
DETAIL 2 A5.6
SCALE: 1" = 1'-0"



DETAILS 3 A5.6 4 A5.6 5 A5.6
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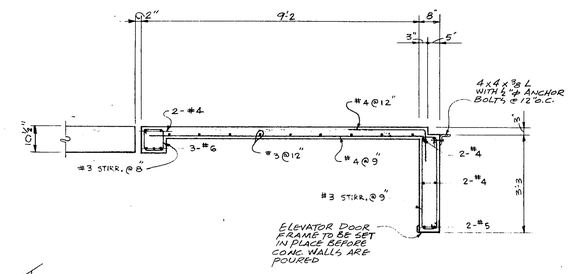

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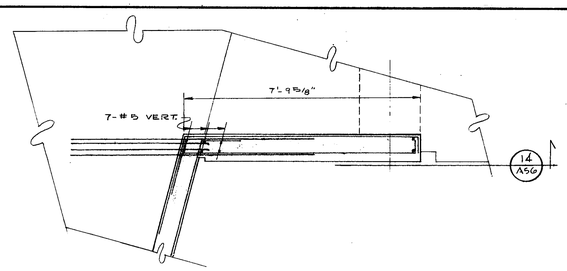

PLAN 13 A5.6
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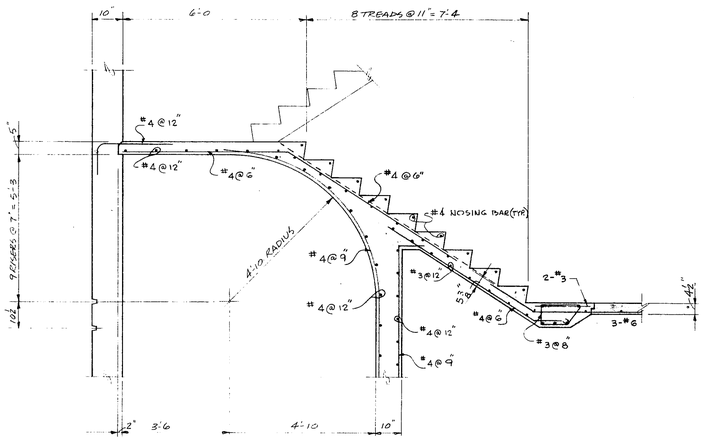

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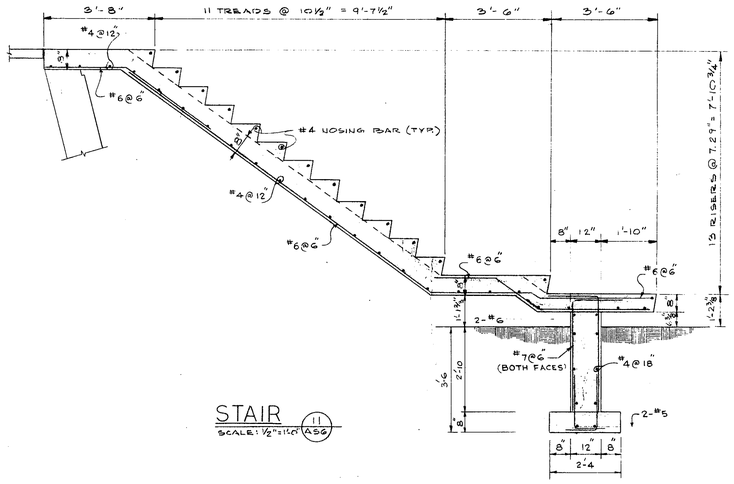

STAIR 11 A5.6
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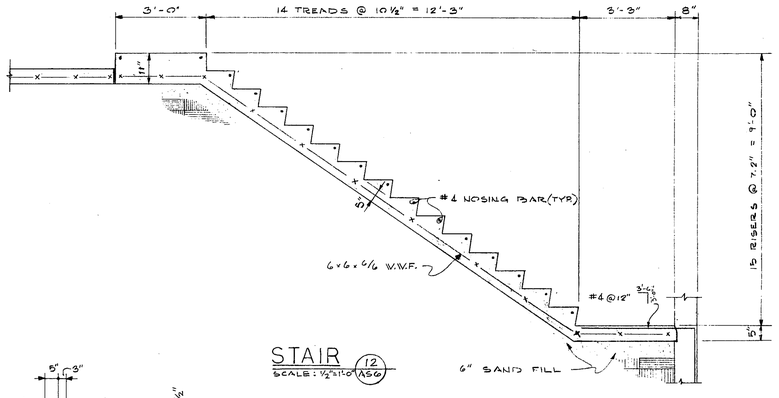

STAIR 12 A5.6
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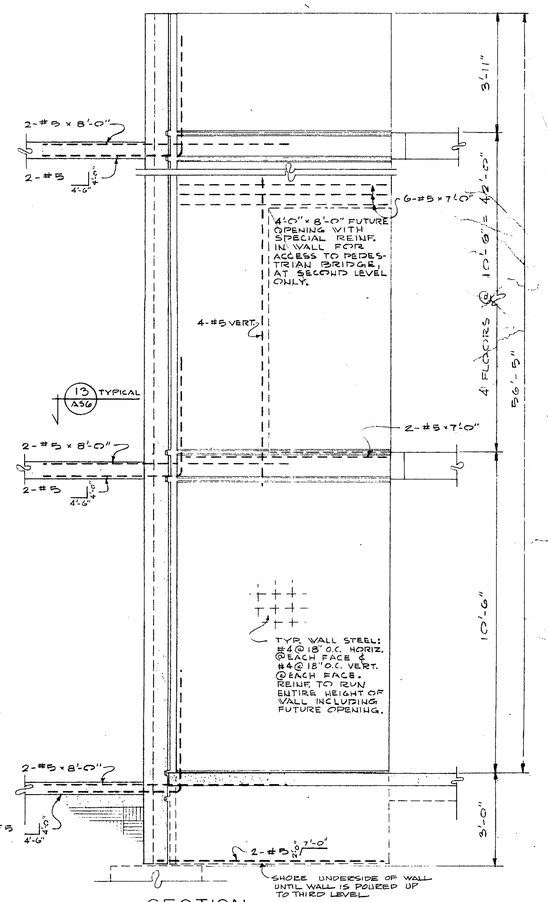

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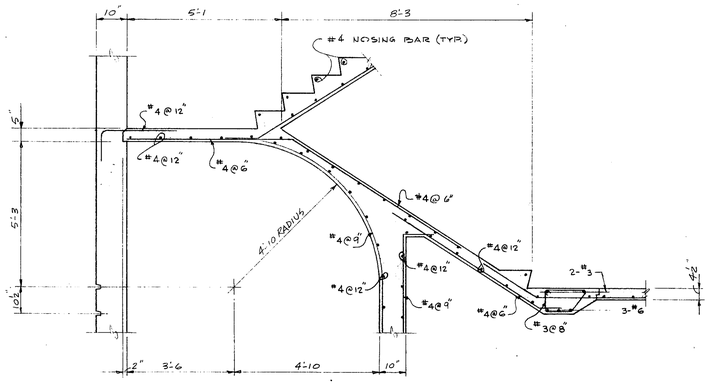

SECTION 8 A5.6
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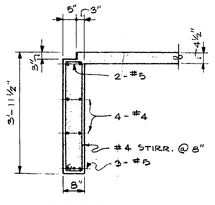

SECTION 9 A5.6
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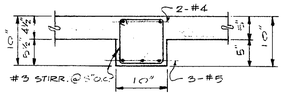
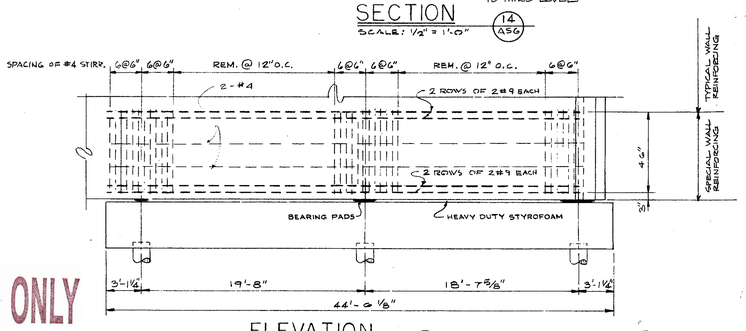


SECTION 10 A5.6
SCALE: 1" = 1'-0"

FOR REFERENCE ONLY



ELEVATION 15 A5.6
NOT TO SCALE

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CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN

CITY OF SAGINAW BUILDING AUTHORITY

STAIR SLABS, SECTIONS & WING WALL DETAILS

DRWG. NO. A5-6
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN VK | DRAWN TJ | CHECK

GENERAL NOTES

The following notes shall apply unless otherwise shown or noted on the Plans.

1. All design and construction shall be in accordance with the "Uniform Building Code", 1964 Edition.
2. The Contractor shall verify all dimensions in the field prior to commencing work. The Engineer shall be notified of any discrepancies which may exist.
3. All material tests shall be made as specified. Concrete test cylinders shall be made for all concrete having strengths in excess of 2,000psi. Tests shall be made by an approved laboratory. Test results shall be submitted to the Engineer.
4. All elevations are as specified in the drawings. Minimum head clearance between girders or beams and finished floor shall be 7'-0".
5. Forms for slab soffits shall be tight and leakproof. The forms shall remain in place until the slab is stressed and the slab ends adequately connected to the rest of the structure. Special construction sequences where specified in the drawings shall always be followed.
6. All details and sections shown in this sheet (S1) are intended to be typical and shall apply to similar situations elsewhere, unless otherwise shown.
7. Use bonding adhesive and sealer at all construction joints in supported slabs.
8. The Contractor shall furnish all necessary bracing required to properly construct the building.

MATERIALS

1. Concrete:

   A. Concrete strength shall be as follows:

      1. Grade slabs and side walks: Stone aggregate; fc'= 3000 psi @ 28 days
      2. Precast Columns: Stone aggregate; fc'= 6000 psi @ 28 days
      3. Precast beamsand precast wall panels: Stone aggregate; fc'= 5000 psi @ 28 days
      4. Cast-In-Place slabs, beams, stairs, walls, footings, pile caps, grade beams and foundation walls: Stone aggregate; fc'= 4000 psi @ 28 days
      5. Pile: As called out in the specifications

   B. All concrete used shall not have an airdry unit weight greater than 150 lbs/cft at 28 days.

   C. Concrete mix designs shall be made by an approved laboratory for all concrete and shall be submitted to the Engineer for approval before use.

   D. Portland Cement shall be Type I or III conforming to ASTM C150-67.

   E. Fine and course aggregates shall be stone aggregates conforming to ASTM C33.

   F. All reinforcing steel shall conform to ASTM A615-60 (60,000 psi yield) and shall be used throughout the job, with the exception of ties and stirrups.

   G. Tie and stirrups reinforcing steel shall conform to ASTM A 615-40 (40,000 psi yield).

   H. Welded wire fabric used for slab on grade shall conform to the specifications of the ASTM designation A-185 for welded wire.

   I. 7-wire strand for prestressing shall conform to ASTM A416. Minimum ultimate tensile strength shall be 270,000 psi. Wire shall be stress relieved, clean and free from corrosion.

   J. 1/4" diameter wires for prestressing shall conform to ASTM A421. Minimum ultimate tensile strength shall be 240,000 psi. Wire shall be stress relieved, clean and free from corrosion.

   K. Greased and Wrapped tendons shall be coated with a rust preventative mastic and wrapped with a double layer of kraft paper or a plastic sheath. Tendons shall be in satisfactory condition when placed.

   L. Anchorages for post-tensioning tendons shall be aporoved by the Engineer or shall be designed in accordance with ASCE-ACI Committee 323 Recommendations.

2. Drypack Concrete:

   Drypack concrete shall be one part portland cement and one part sand with sufficient water to allow a small amount of paste to come to the surface after vigorous tamping.

3. Steel:

   a. Structural steel shall conform to ASTM A36. Pipe to conform to ASTM A53, Grade A or B. High strength steel bolts to conform to ASTM A325. Light gauge structural steel shall conform to either ASTM A245 or ASTM A303.

STRUCTURAL STEEL NOTES

1. Construction shall be in accordance with the latest AISC standard practices.
2. Structural Steel welding shall be performed by a certified welder.

MASONRY NOTES

1. All non-load bearing masonry units shall conform to ASTM C 129-59 and shall be stored under cover on the job site.
2. Vertical and Horizontal joints between masonry units shall be as shown in the drawings to give the required architectural elevation.
3. Grout shall be of fluid consistency. Grout mix shall be one part portland cement to three parts sand for grout spaces less than 4" in any direction, and for grout spaces more than 4" in any direction, the grout mix may contain an additional two parts of pea gravel. All cells grouted where required.
4. Mortar shall be freshly prepared and uniformly mixed in a loose volume ratio of one part portland cement, 4 parts sand, and at least 1/4 part lime putty or hydrated lime but not more than 1/2 part.

REINFORCED CONCRETE

1. All reinforced concrete work shall be in accordance with "Building Code Requirements for Reinforced Concrete" ACI 318-63
2. All reinforcing steel details shall be in accordance with the Manual of Standard Practice for Detailing Reinforced Concrete Structures, ACI 315-65
3. Unless noted otherwise, minimum concrete cover to reinforcing steel (not prestressing steel) shall be as follows:

   3" Where concrete is deposited directly against ground (except grade slabs)
   2" Where concrete is exposed to ground, but placed in forms.
   1" For Wall bars unless otherwise shown.
   2" For main bars of tied columns
   1 ½" For main bars of beams
   3/4" For Precast Wall Panels
   3/4" For Slabs on Forms
   1 ½" For Slabs on Ground

4. All walls shall be dowelled to footings, walls, beams or slabs with bars of the same size and spacing as the wall bars, except where specifically indicated otherwise, with 30 diameter embedment.
5. See Architectural and Mechanical drawings for size and location of wall and floor openings, wall offsets, provisions for future equipment, stair details pipe, vent, duct and other openings and details not shown on Structural drawings. See Electrical drawings for attachment or mounting of light fixtures, light standards and other supports and openings for electrical equipment.
6. Concrete shall not be dropped through reinforcing steel (as in walls) so as to cause segregation of aggregates; in such cases, hopper or vertical chutes or trunks shall be used. Chutes or trunks shall be of variable lengths so that the free unconfined fall of concrete shall not exceed six (6) feet and a sufficient number shall be used to ensure the concrete being kept level at all times.
7. Shore retaining walls until connecting slabs are cast.
8. Splice in continuous reinforcement as in walls, wall footings, etc. shall have a lap of 30 diameters and the splices in adjacent bars shall not be less than five (5) feet apart. Vertical wall bars shall be spliced at or near floor lines. Bars may be wired together at splices or laps except for top reinforcing of beams and slabs or where definitely detailed to be separated. See beam details or schedules for separation of beam or girder bars over supports. Continuous bars in spandrels, wall beams, etc. shall lap as follows: Top bars at center line span; bottom bars at center line supports.

PRECAST CONCRETE

1. The precaster shall submit complete detailed shop and erection drawings to the Engineer for approval prior to construction. Shop drawings shall be based on the architectural and structural drawings and shall show all the embedded reinforcement, pipes, inserts, anchors and plates.
2. It is the precaster's responsibility to design and detail all connections for the beam postsensioning system used and submit shop drawings and calculations to the Engineer for approval prior to fabrication.
3. The precaster shall design and detail all the precast wall panel connections and reinforcement and submit shop drawings and calculations to the Engineer for approval prior to construction.
4. The concrete strength at transfer for the precast beams shall be not less than 3500 psi.

POST TENSIONING

1. The Contractor shall submit shop drawings for post tensioning the slabs, to the Engineer for approval. The following information shall be provided on the drawings:

   a. Tendon layout and dimensions locating tendons in horizontal plane at all points. Horizontal curvature of tendons at blockouts, anchorages shall be detailed. All openings in slabs and beams shall be shown on shop drawings.
   b. Tendon profiles showing chair heights and locations and any placement steel, if required. It shall be the prestressing steel placer's responsibility to maintain alignment of the tendons before, during and after concrete placement. Shop drawings shall clearly show location of each tendon and method of supporting tendon.
   c. Details of all reinforcement around stressing pockets, closures, anchorages, etc.
   d. Shop drawings shall include calculations of friction losses to determine that design forces are obtainable. Also, calculations or test results of adequacy of anchorage may be required.
   e. Required elongation of each tendon at each jacking point.
   f. Complete prestressing procedure to include:
      (1) Jacking force and jacking pressure.
      (2) Maximum temporary jacking force and jacking pressures.
      (3) Certified jack calibrations and method of identification of jacks. Each jack to be used on the job must be calibrated.
      (4) Method of determining slack, if any.
      (5) Method of determining anchor force or force remaining in tendons after anchor.
   g. Method of burning off excess tendon after anchorage.
   h. Method of sealing tendons.

2. One sample of prestressing wire or strand from each reel or heat shall be tested by an approved laboratory and test results submitted to the Engineer.
3. Tendons shall be draped to approximate a parabolic profile between supports and shall conform to the control points shown in the profile. Dimensions locate the center of gravity of the tendon or group of tendons. Low points are at midspan unless otherwise noted. Adequate support bars and chairs shall be furnished to adequately hold the tendons in place during the concrete placement.
4. Slight deviations in spacing of the slab tendons will be permitted where required to avoid openings, inserts, and dowels which are specifically located. Where location of tendons seem to interfere with each other, one tendon may be moved horizontally in order to avoid this interference.
5. All slab tendon anchors including temperature tendons shall have a minimum concrete cover of 3/4" and shall be provided with 2-#4 continuous backup bars.
6. All pockets required for anchorages shall be waterproofed so as to eliminate water leakage through the pocket.
7. All inserts for suspended mechanical and architectural work shall be cast-in-place whenever feasible. When additional fasteners are required, only those that are anchored in drilled holes shall be used.
8. Top of floors shall be true to indicated elevations. Variations shall not exceed 1/8" in 10 feet. Care must be exercised in the finishing operations to obtain a true surface. The floor slabs shall be finished as noted in the specifications.
9. Minimum temporary force in strands to overcome friction shall not exceed 216KSI for ½"Ø- 7 wire strands and 192 KSI for ¼" diameter wires.
10. Post-tension tendons shall be anchored as follows:
    ½" diameter 7-wire strands - 189 ksi stress in strands, 28.9 k/strand
    0.0824 inches/lin. ft. of strand
    ¼" diameter wire tendons - 169 ksi stress in tendons
    0.07 inches/lin. ft. of strand
11. Concrete strengths at transfer of prestress force to concrete shall be at least 3000 psi or the strength recommended by the Anchorage Supplier.
12. Contractor shall keep records of jacking forces and elongations and shall promptly submit to the Engineer.

FOUNDATION

1. Wall footings are to be placed on undisturbed soil or compacted fill at the Contractor's option. Minimum depths for wall footings as shown on the drawings will be held to. Stepped footing can be used only where mentioned.
2. All anchor bolts, reglets, dowels, bearing pads and miscellaneous items to be cast in concrete shall be secured in place in the forms before placing concrete.
3. Wall footings are proportionad using 1000 psf as the allowable bearing pressure at levels indicated, and 5000 psf at stair towers and landscaping retaining walls.
4. Only point bearing 200 ton capacity piles shall be used where indicated on the drawings. The piles shall be driven and tested as described in the Specifications.

SUGGESTED CONSTRUCTION SEQUENCE

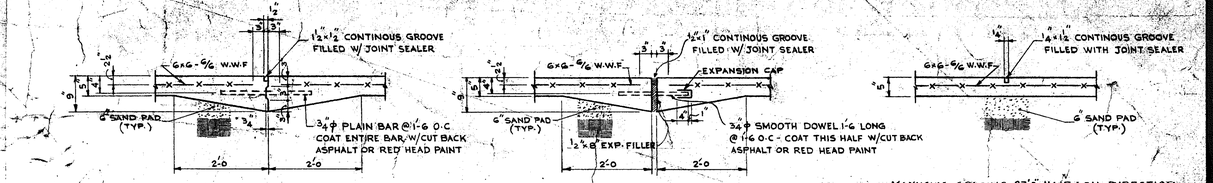
The Contractor shall submit erection drawings for approval of the Engineer prior to construction. The drawing shall indicate in detail the proposed sequence in which the precast members will be erected and the methods by which the columns will be guyed and braced, and the precast beams will be braced. The undermentioned construction sequence shall be used. Any modification on this sequence can be used only with prior approval from the Engineer. The special construction sequences as and where mentioned in other drawings shall apply in addition to these.

1. Perform all excavations, complete footings, piles, pile caps and grade beams. Provide shoring for all banks where required. Investigate to see if underpinning of adjacent footings are required.
2. Erect and brace precast columns, plumb and dry pack column base plates.
3. Erect and brace precast beams, connect post-tensioning hardware in beams through columns and grout ends of beam and beam cut-outs.
4. Form up slab (starting with the lowest slab), layout post-tensioning in slab, connect at end bulkheads and pour slab. (All precast beams must be in place on column tier before casting slab.)
5. Post tension slab (Main and temperature tendons)
6. Post tension beams loaded by slab in steps 4 & 5 and grout anchorages.
7. Repeat 4, 5 and 6 for each level. (With less than two supported levels below a slab to be poured, loads shall be shored to ground. With two or more supported levels below a slab to be poured, loads shall be distributed to at least the two fully stressed levels below. Each level shall be reshored for the form and concrete loads from the level above.)

NOTE:- THIS JOINT TO BE USED ONLY WHEN POURING CLOSES FOR MORE THAN 30 MINUTES AND TO BE LOCATED ONLY WHERE A CONTROL JOINT WOULD OCCUR. DO NOT LOCATE THIS JOINT ON COL. LINE C.

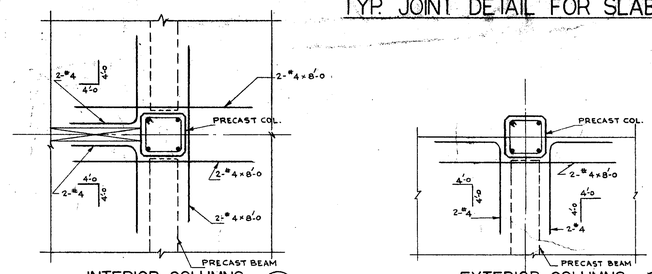
NOTE:- THIS JOINT IS TO BE USED ONLY WHERE SHOWN ON PLANS.

NOTE:- LOCATED AT ALL TRANSVERSE COL. LINES WHERE CONST. JOINTS DO NOT OCCUR



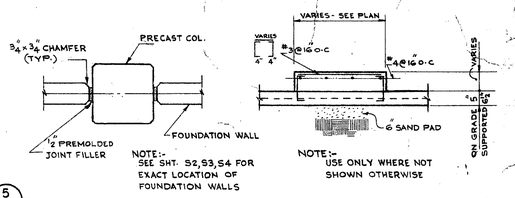
CONSTRUCTION JOINT DETAIL (1/S1) — EXPANSION JOINT DETAIL (2/S1) — CONTROL JOINT DETAIL (3/S1)

TYP. JOINT DETAIL FOR SLAB ON GRADE

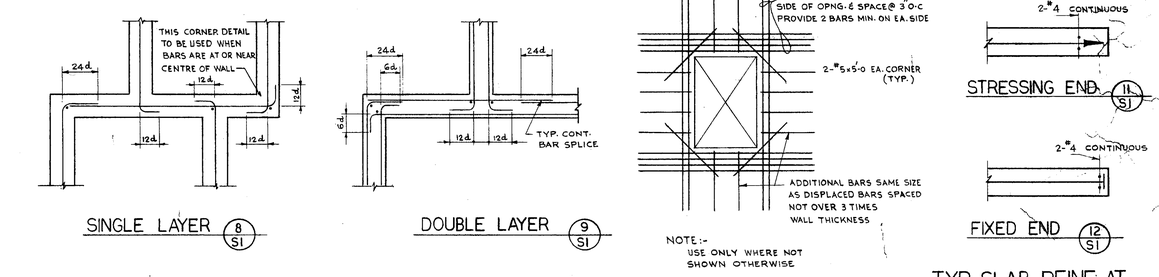


INTERIOR COLUMNS (4/S1) — EXTERIOR COLUMNS (5/S1)

TYP. SUPPORTED SLAB REINF. AT COLUMNS

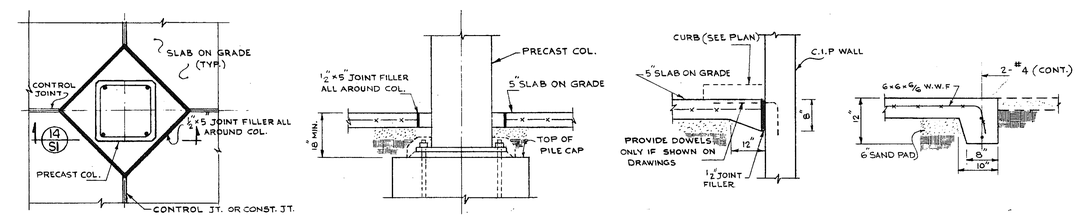


TYP. WALL/COL. JT. FILLER DETAIL (6/S1) — TYP. CURB REINF. (7/S1)



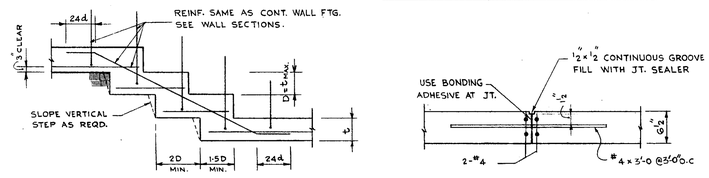
SINGLE LAYER (8/S1) — DOUBLE LAYER (9/S1) — STRESSING END (11/S1) — FIXED END (12/S1)

TYP. CONC. WALL REINFORCING BAR SPLICES — TYP. WALL OPNG. DETAIL (10/S1) — TYP. SLAB REINF. AT POST TENSIONING ANCHORAGES



COL.- SLAB PLAN (13/S1) — COL.- SLAB SECTION (14/S1) — SLAB TO WALL (15/S1) — END OF SLAB (16/S1)

TYPICAL GRADE SLAB DETAILS



TYPICAL STEPPED FOOTING DETAIL (17/S1)

SUPPORTED SLAB CONSTRUCTION JOINT (18/S1)

JOINTS OTHER THAN SHOWN ON DRAWINGS ALLOWED ONLY ON APPROVAL OF ENGINEER

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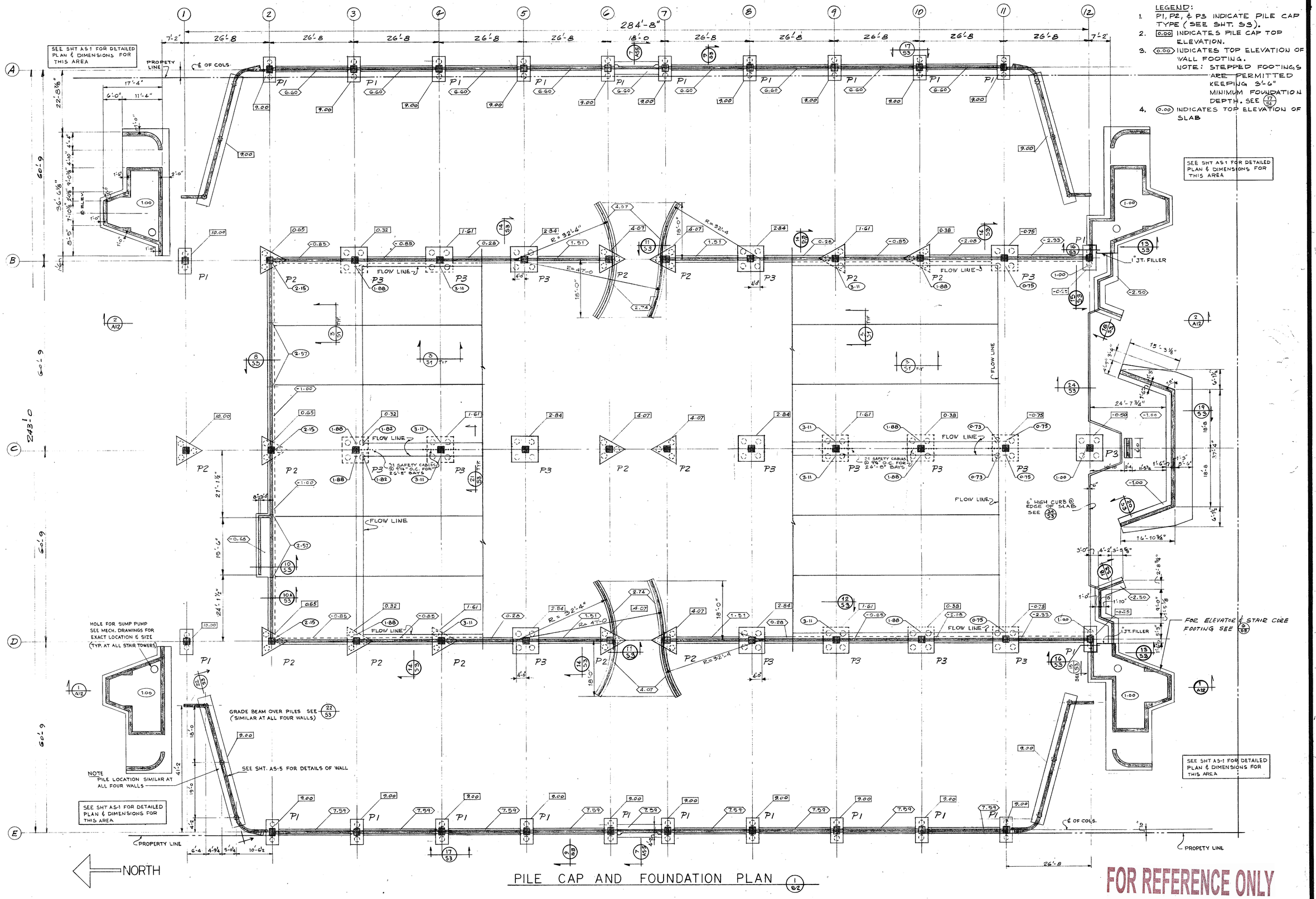
CITY OF SAGINAW PARKING DECK NO 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
NOTES & TYPICAL DETAILS

DRWG. NO. S1
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN VK | DRAWN OR | CHECK



PILE CAP AND FOUNDATION PLAN 1/S2

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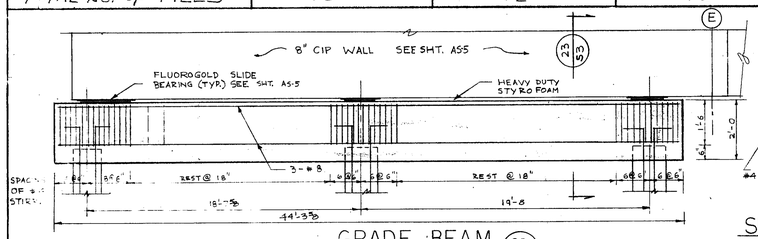
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
PILE CAP & FOUNDATION PLAN

SCALE 3/32"=1'-0"

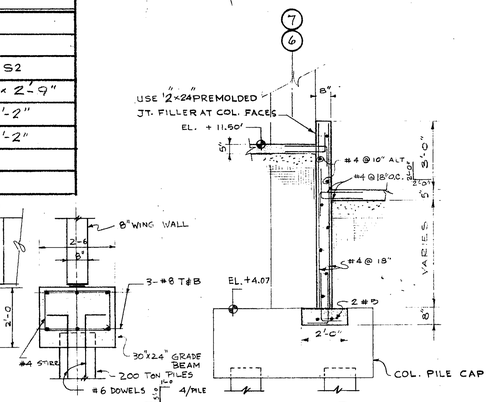
DRWG. NO. S2
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN PP DRAWN PP CHECK

PILE CAP & PILE SCHEDULE

MARK		P1	P2	P3
NUMBER OF CAPS		24	14	18
TOP OF CAP ELEVATION		SEE PLAN – S2	SEE PLAN – S2	SEE PLAN – S2
CAP DIMENSION		6'-2" x 2'-8" x 3'-0"	8'-2" x 8'-2" x 8'-2" x 3'-0"	6'-2" x 6'-2" x 2'-9"
BOTT. CAP REINF.	UPPER LAYER	6-#4 x 2'-2"	8-#10 x VARIES 8-#10 x VARIES 8-#10 x VARIES	10-#10 x 5'-2"
	LOWER LAYER	5-#10 x 5'2"		10-#10 x 5'-2"
No. of 200 TONS PILE/CAP		2	3	4
TOTAL No. OF PILES		48	42	72

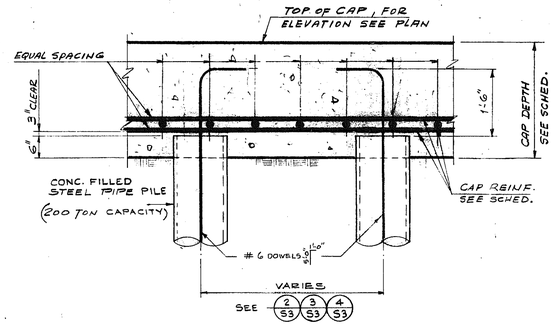


GRADE BEAM (22/S3)
(SECTION ALONG AXIS OF BEAM)

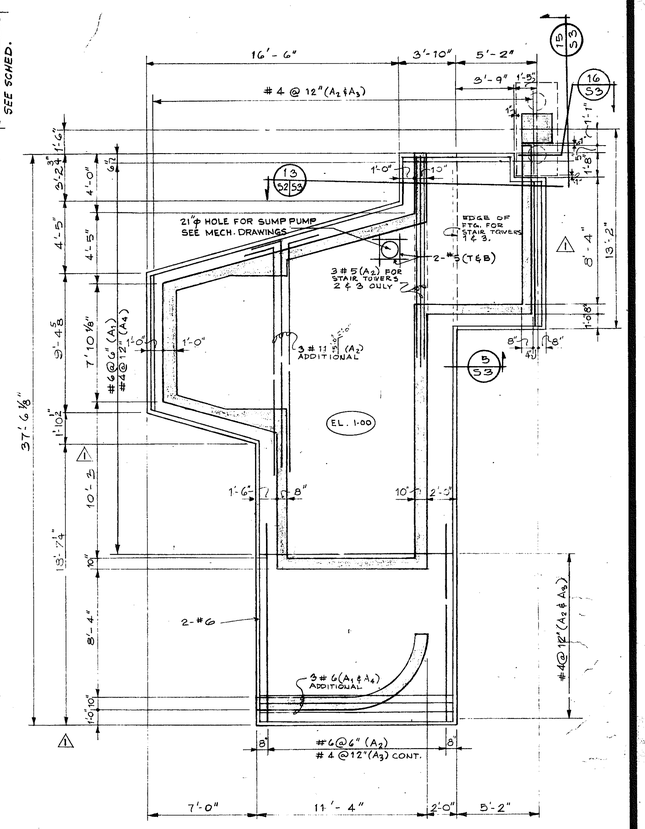


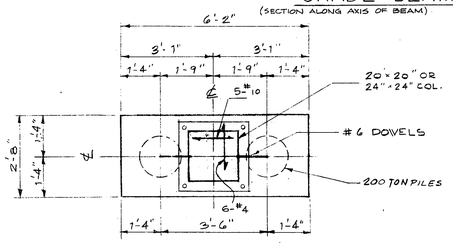
SECTION (11/S2,S3)
SCALE: 3/8" = 1'-0"

SECTION (23/S3)

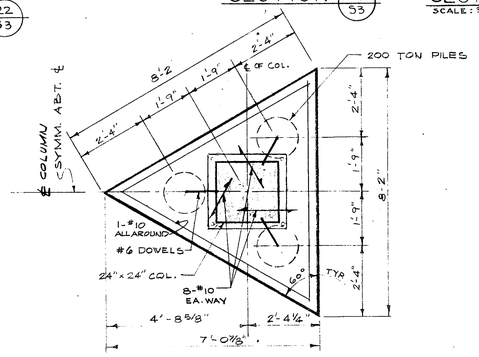


TYPICAL PILE CAP DETAIL (1/S3)
3/4" = 1'-0

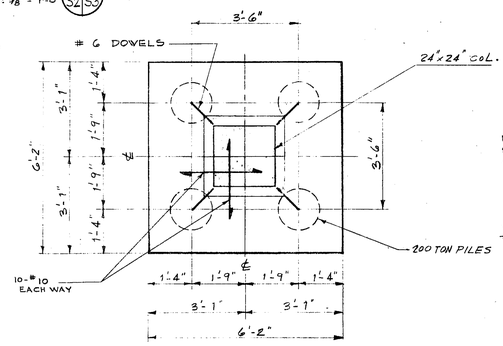




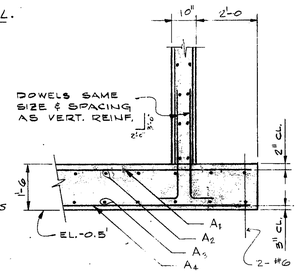
PILE CAP — P1 (2/S3)
1/2" = 1'-0
2-200 TON PILES PER CAP



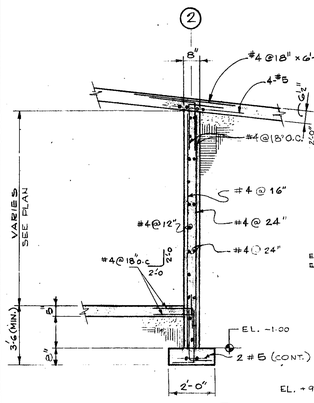
PILE CAP — P2 (3/S3)
1/2" = 1'-0
3-200 TON PILES PER CAP



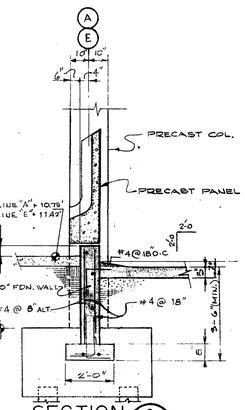
PILE CAP — P3 (4/S3)
1/2" = 1'-0
4-200 TON PILES PER CAP



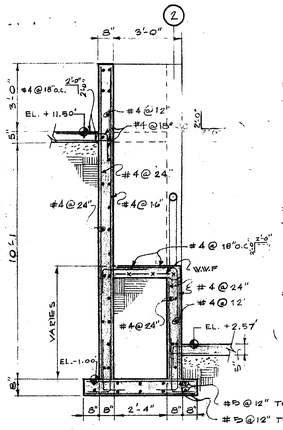
SECTION (5/S3)
SCALE: 1/2" = 1'-0
TYPICAL STAIR-ELEVATOR CORE FOUNDATION SECTION.



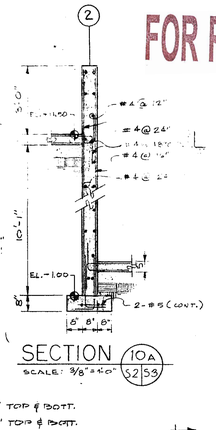
SECTION (8/S2,S3)
SCALE: 3/8" = 1'-0



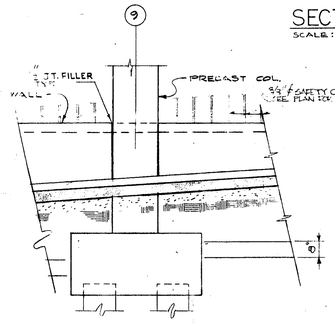
SECTION (9/S2,S3)
SCALE: 3/8" = 1'-0



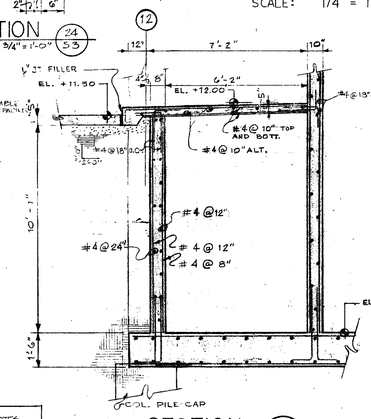
SECTION (10/S2,S3)
SCALE: 3/8" = 1'-0



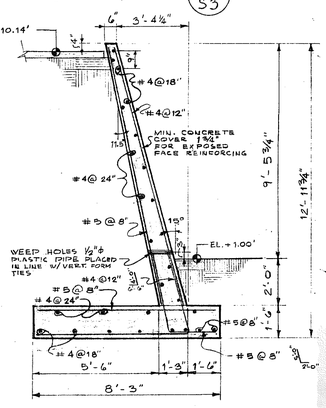
SECTION (10A/S2,S3)
SCALE: 3/8" = 1'-0



SECTION (12/S3)
SCALE: 3/8" = 1'-0



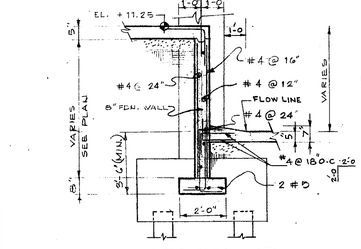
SECTION (13/S3)
SCALE: 3/8" = 1'-0



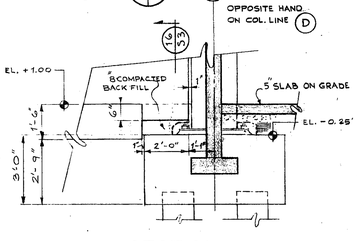
SECTION (19/S2,S3)
SCALE: 3/8" = 1'-0

NOTE: USE 1 - #6 T & B ALL AROUND EDGE OF FOOTING

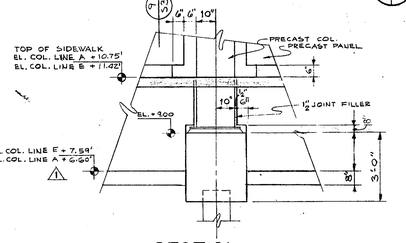
STAIR & ELEVATOR CORE FOUNDATION PLAN (6/S3)
SCALE: 1/4" = 1'-0"



SECTION (14/S2,S3)
SCALE: 3/8" = 1'-0



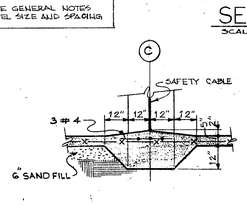
SECTION (15/S3)
SCALE: 3/8" = 1'-0



SECTION (16/S3)
SCALE: 3/8" = 1'-0

SECTION (17/S3)
SCALE: 3/8" = 1'-0

NOTE: SEE GENERAL NOTES FOR DOWEL SIZE AND SPACING



SECTION (21/S3)
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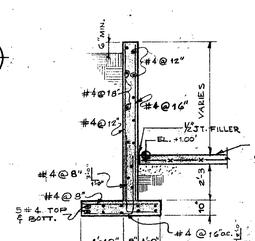
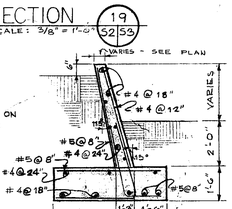


SECTION (18/S2,S3)
SCALE: 3/8" = 1'-0



SECTION (20/S2,S3)
SCALE: 3/8" = 1'-0

FOR REFERENCE ONLY

NO.	DATE	REVISIONS	BY	APP.
1	11-5-70	REVISION OF DIMENSIONS	EBR	

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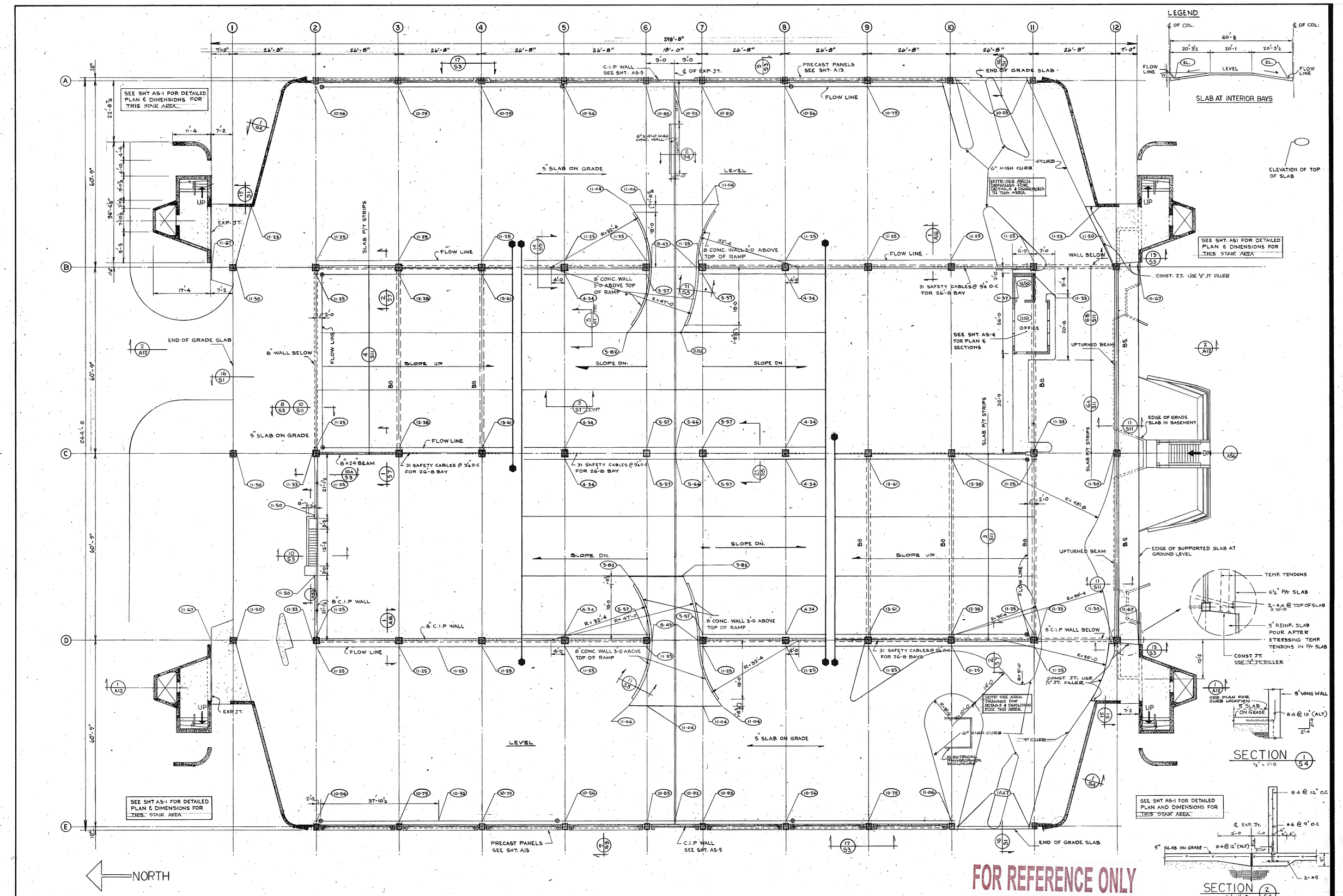
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
PILE CAP & FOUNDATION DETAILS

DRWG: NO. S3
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN PP DRAWN PP CHECK



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NO:	DATE	REVISIONS	BY
1	3-12-73	AS BUILT DWGS: ELECT. TRANSF. ENCLOSURE	R.M.

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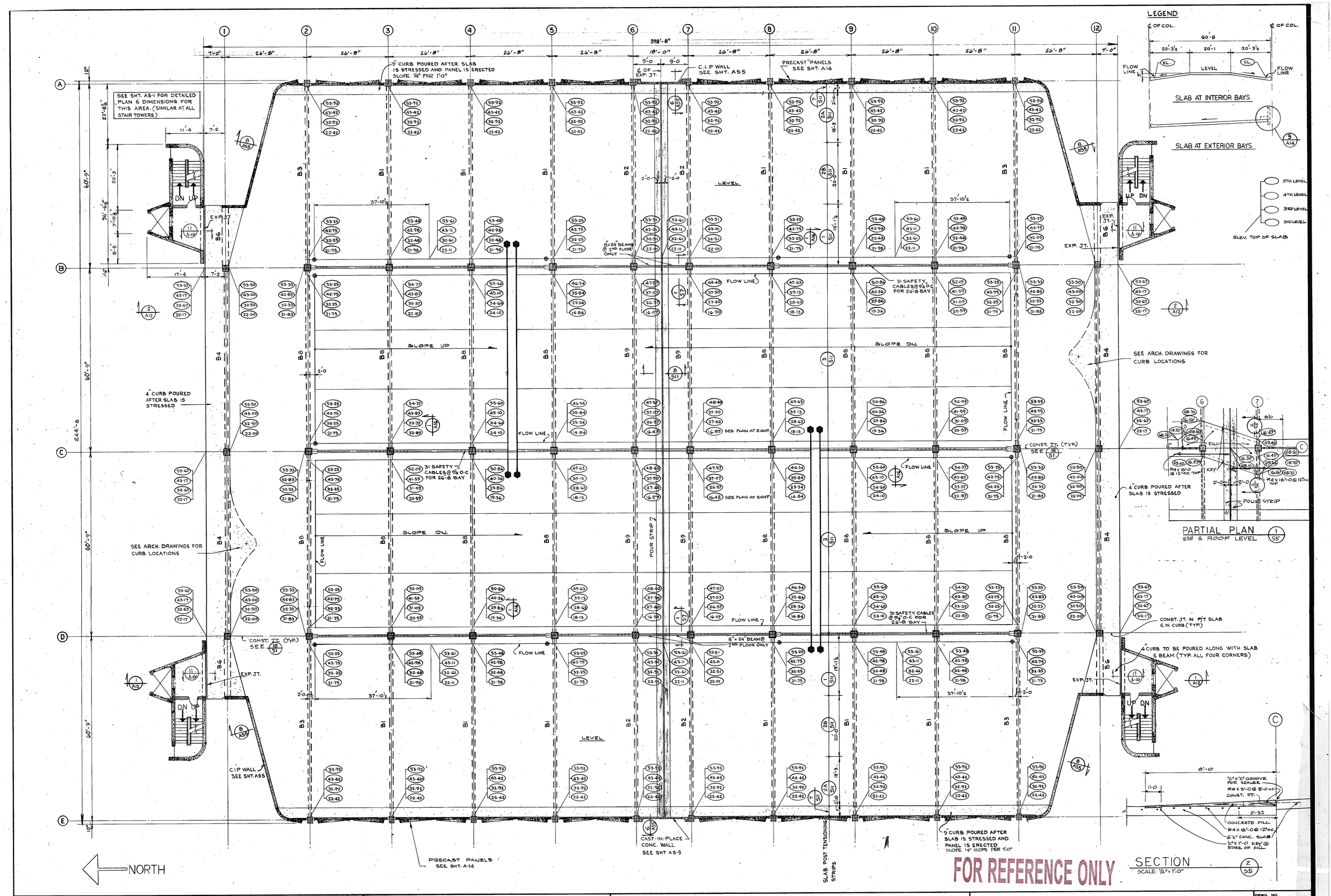
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN

CITY OF SAGINAW BUILDING AUTHORITY

GROUND LEVEL PLAN

SCALE 3/32" = 1'-0

DRWG. NO. S4
JOB NO. 69426
DATE JULY 15, 1970
DESIGN VK | DRAWN OR | CHECK



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NO:	DATE	REVISIONS	BY
1	3-2-73	AS BUILT DWGS: DETAIL 1/S-5 REVISED	RM.

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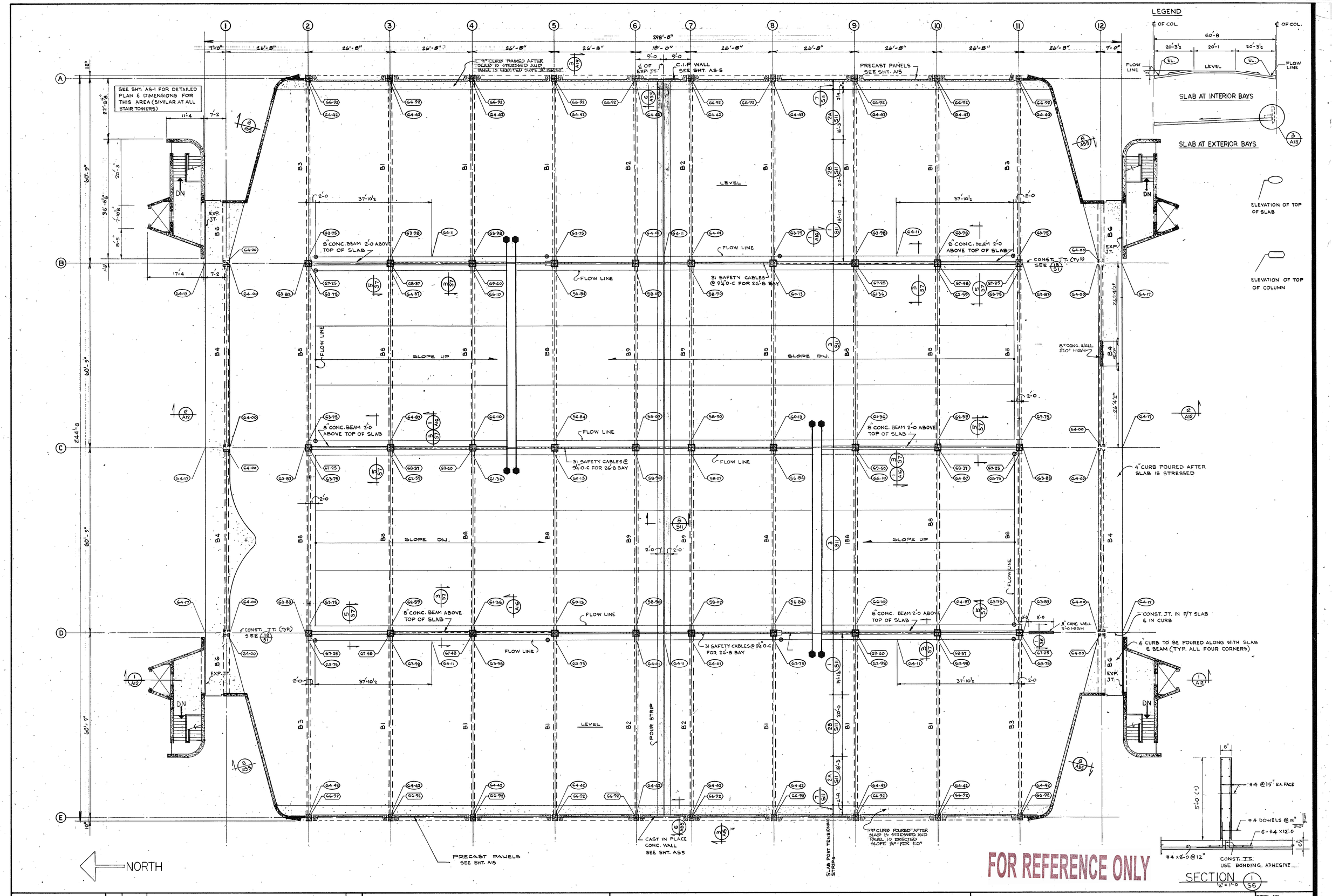
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
TYPICAL LEVEL FRAMING PLAN

SCALE 3/32"=1'-0"

DRWG NO. S5
JOB NO. 69426
DATE JULY 15, 1970
DESIGN VK | DRAWN OR | CHECK

87



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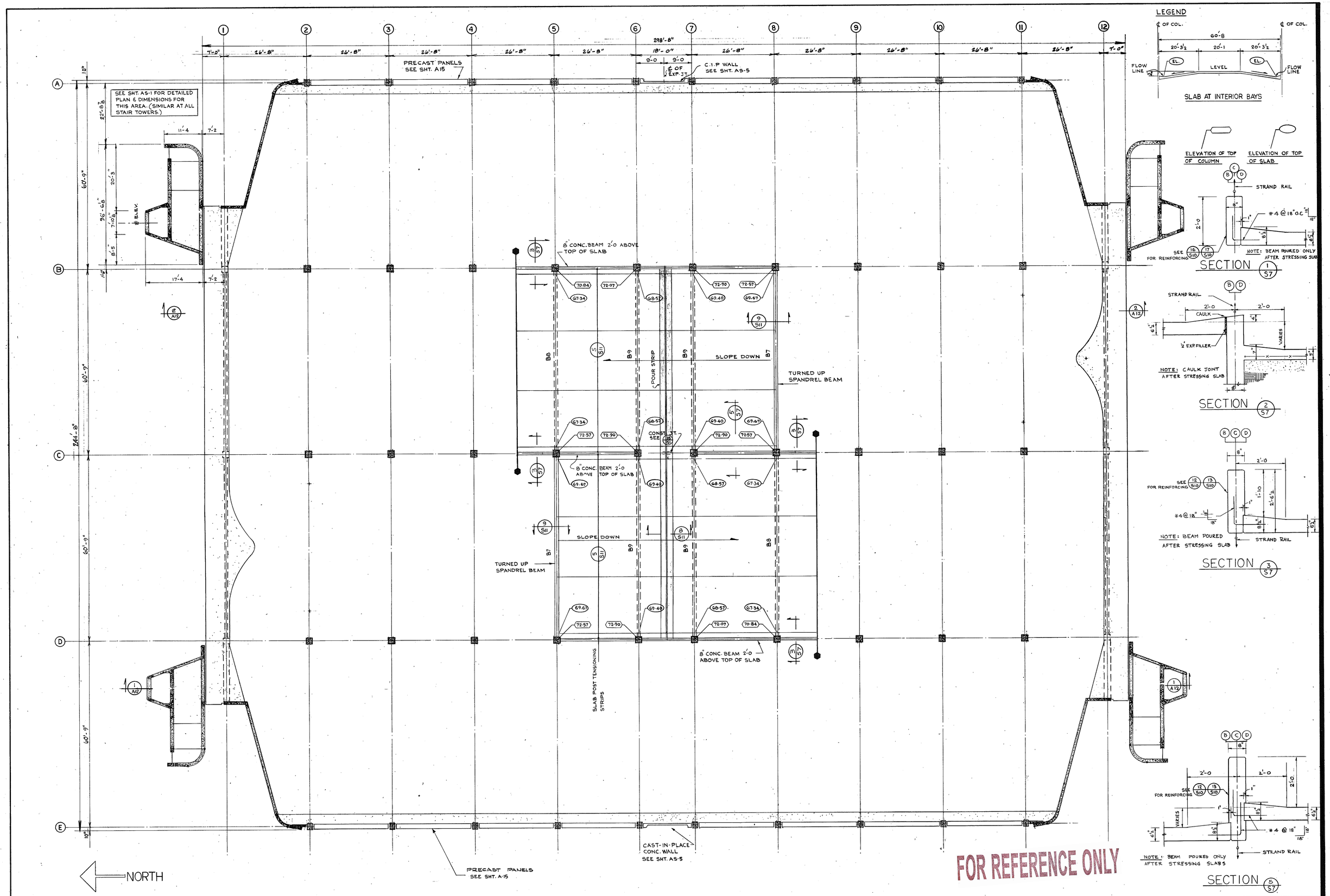
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN

CITY OF SAGINAW BUILDING AUTHORITY

SIXTH LEVEL FRAMING PLAN

SCALE 3/32" = 1'-0"

DRWG NO	JOB NO	DATE	DESIGN	DRAWN	CHECK
S6	69426	JULY 15, 1970	VK	OR	



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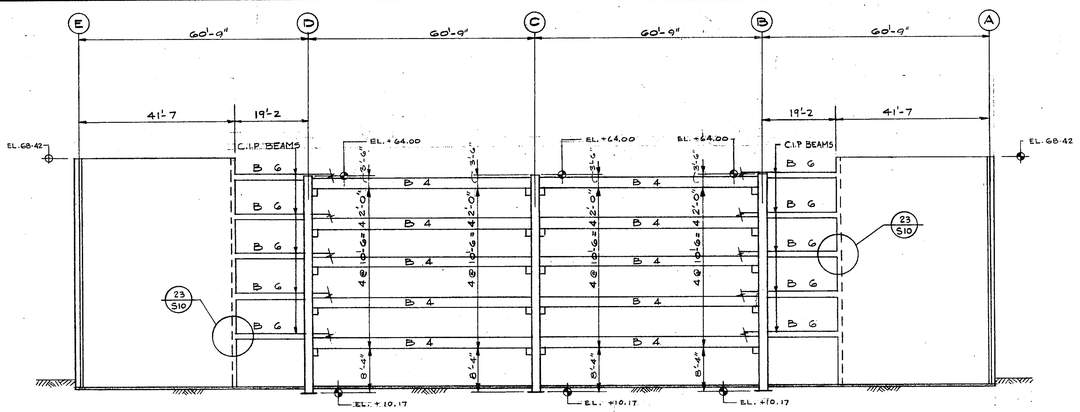
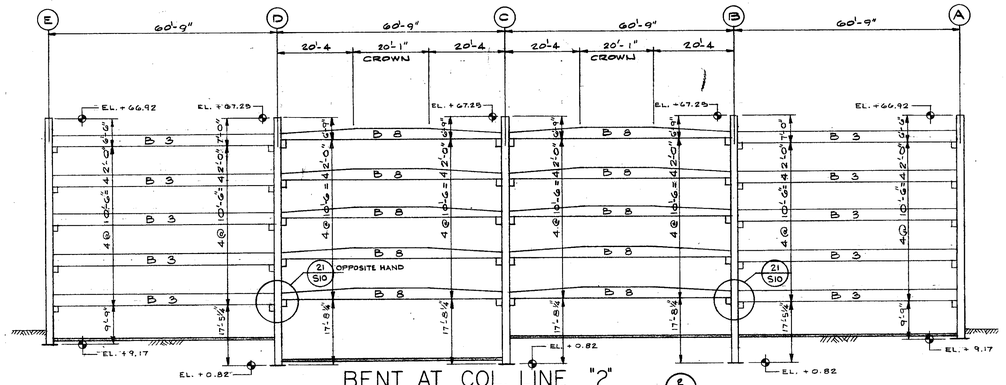
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
PARTIAL ROOF FRAMING PLAN SCALE 3/32" = 1'-0

DRWG. NO. S7
JOB NO. 69426
DATE JULY 15, 1970
DESIGN VK | DRAWN DR | CHECK



BENT AT COL. LINE "1" (1/58)



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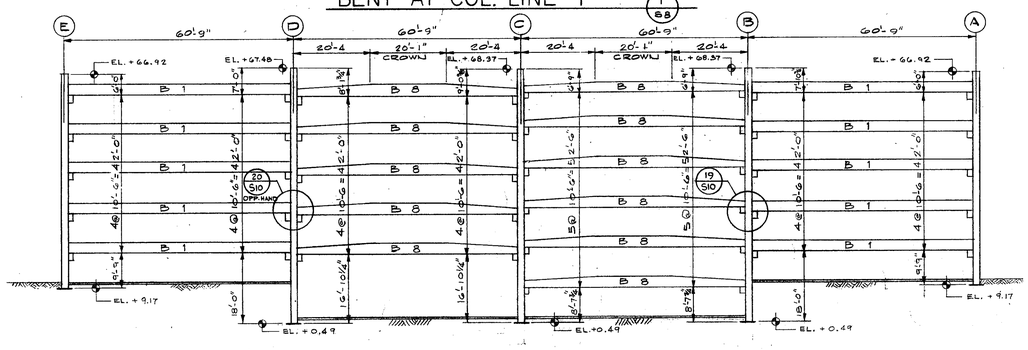

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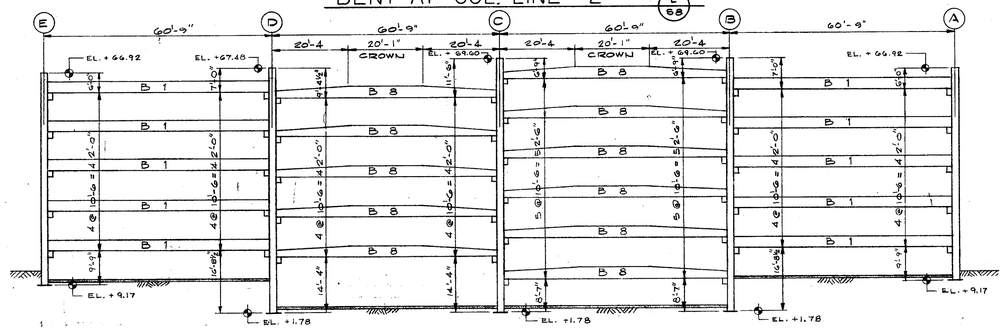

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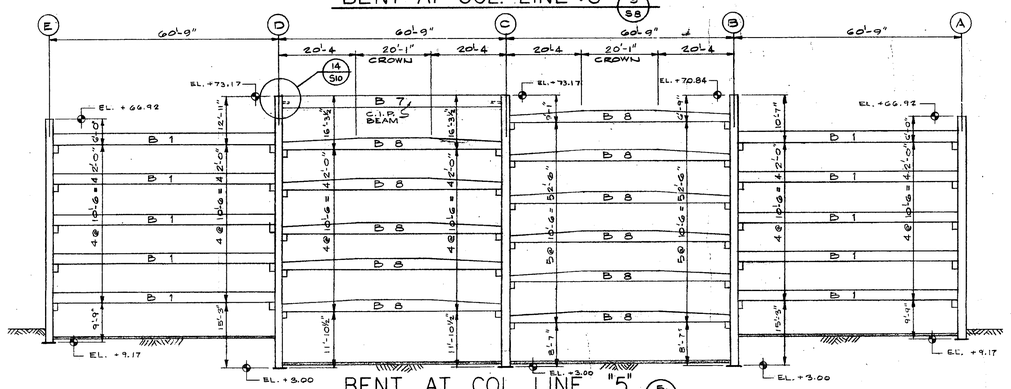

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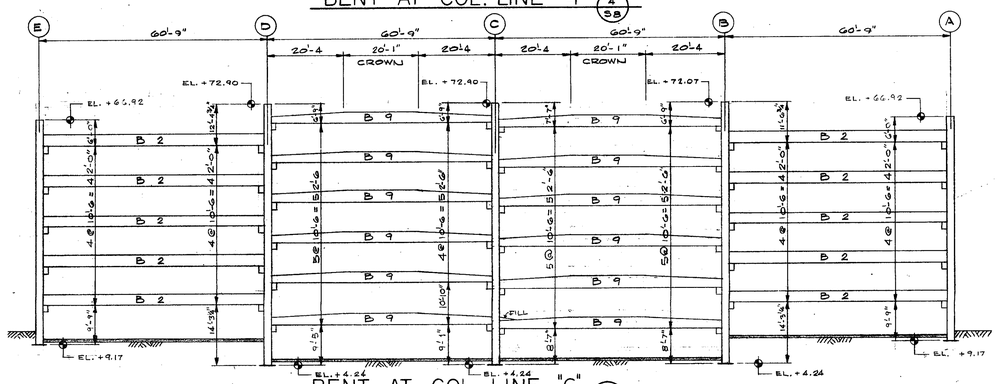

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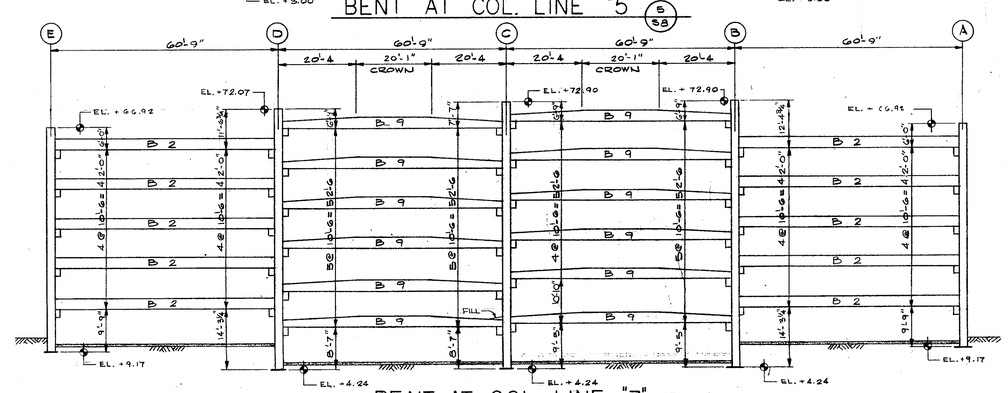

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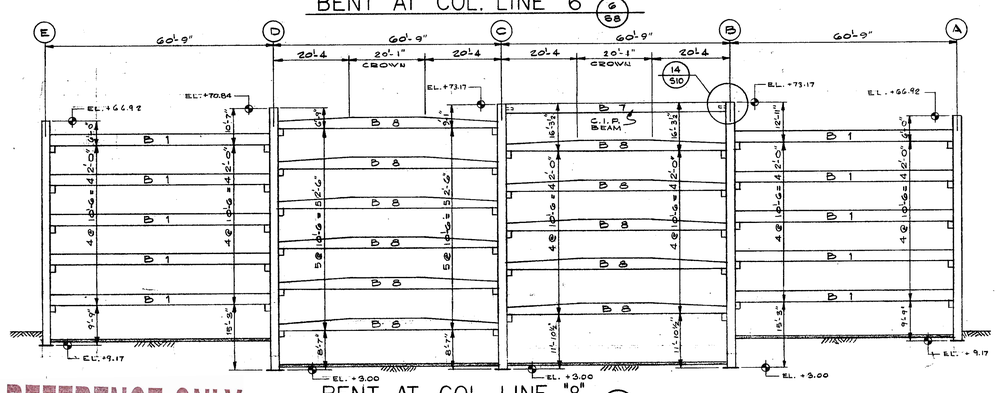

BENT AT COL. LINE "8" (8/58)

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SCALE: 1/16" = 1'-0

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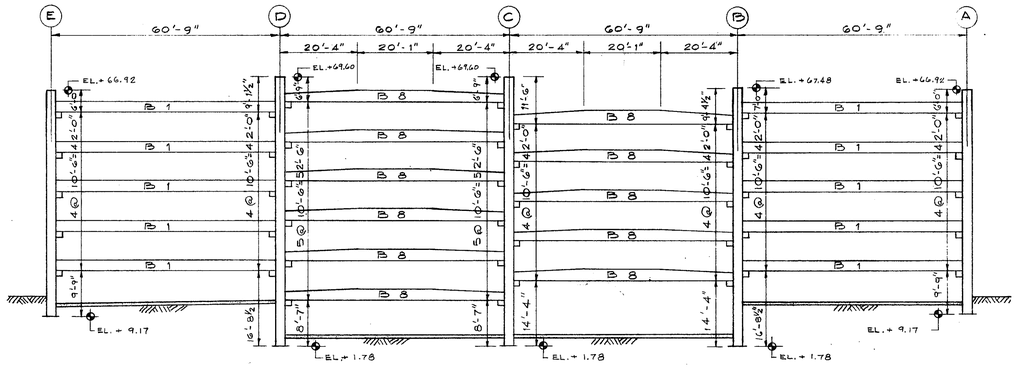
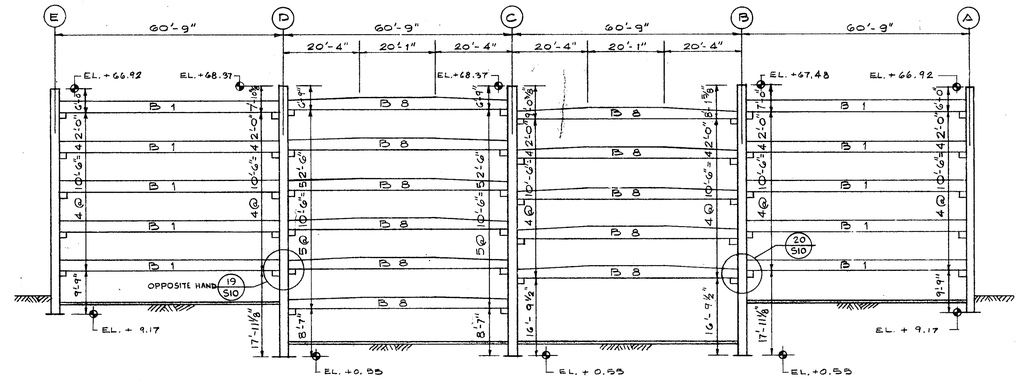
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
PRECAST COLUMN BENTS - TRANSVERSE

DRWG. NO. 58
JOB NO. 69426
DATE JULY 15, 1970
DESIGN V.K. DRAWN PHJ CHECK



BENT AT COL. LINE "9" (1/59)



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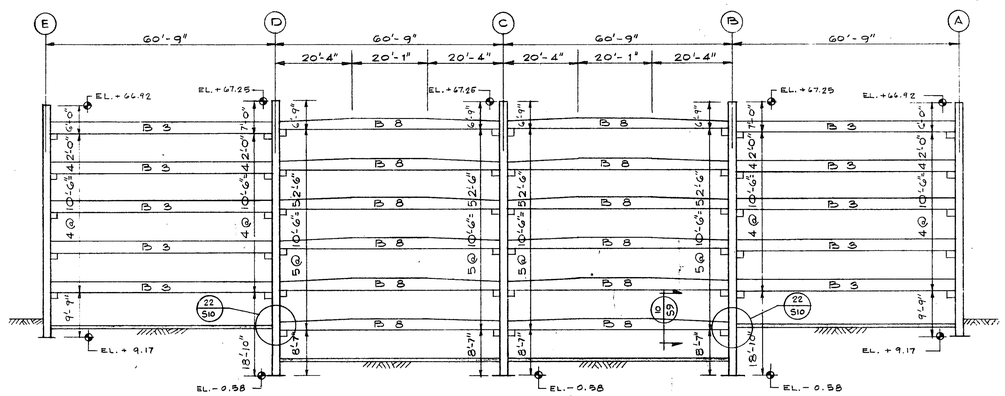

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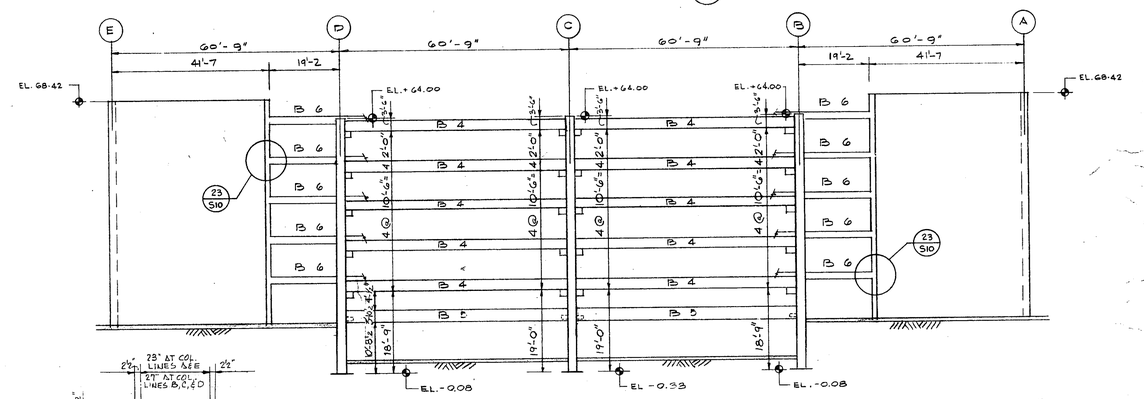
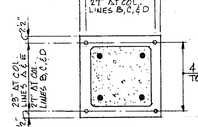


BENT AT COL. LINE "12" (4/59)

NOTE: ELEVATIONS ARE FROM BOTTOM OF BASE PLATE TO TOP OF PRECAST COLUMN.

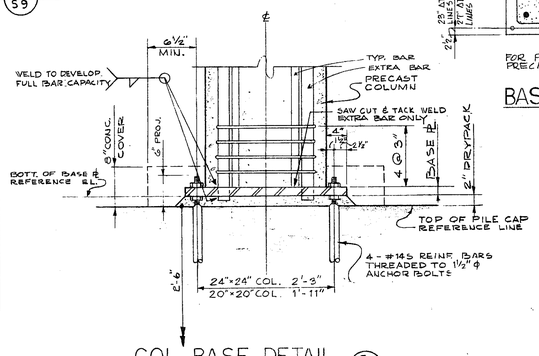


FOR PLATE SIZES SEE PRECAST COLUMN SCHEDULE.

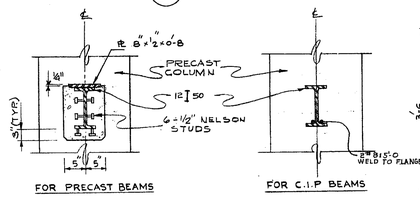
BASE PLATE PLAN (12/59)

PRECAST COLUMN SCHEDULE

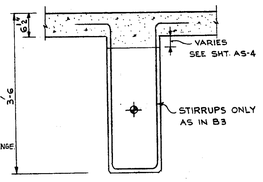
COLUMN LOCATION	No.	SIZE	VERT. REINF.	BASE #	REMARKS AND NOTES
A2 THRU A11 E2 THRU E11	20	20" × 20"	4-#10 (TYP) 2-#11 X 10'-0 @ TOP OUTSIDE FACE	28"×1½"×2'-4"	1. ALL COLUMNS SHALL BE FULL HEIGHT COLUMNS. SPLICES ARE NOT ALLOWED IN ANY OF THE COLUMNS. 2. THE COLUMN FOUNDATION IS NOT DESIGNED FOR WIND IN N-S DIRECTION DURING ERECTION. HENCE ADEQUATE BRACING SHOULD BE PROVIDED BETWEEN COLUMNS IN THE N-S DIRECTION. 3. COLUMN TIES TO BE 3/8 WELDED WIRE TIES AT 12" O.C (TYP), WITH SPACING @ 6 O.C TO FIRST SUPPORTED LEVEL AND CLOSER SPACING AS SHOWN AROUND HAUNCHES, POST-TENSIONING, ANCHORAGE AND BASE PLATE 4. PROVIDE INSERTS AND PIPE CHASES AS SHOWN IN OTHER STRUCTURAL & ARCHITECTURAL DRAWINGS. 5. COLUMNS ARE SYMMETRICAL ABOUT BASE PLATE. 6. USE 2-#11 X 10'-0 @ TOP ON OUTSIDE FACE OF ALL COLUMNS
B1, B12, D1, & D12	4	24" × 24"	4-#14S (TYP)	32"×1⅜"×2'-8"	
C6 & C7	2	24" × 24"	4-#18S (TYP)	32"×1¾"×2'-8"	
B3, B4, B5, B8, B11, C3, C4, C5, C8, C9, C10, C11, C12, D5, D8, D9, D10, D11	18	24" × 24"	4-#18S (TYP) 4-#11 × 14'-0" @ BOTT.	-do-	
B2, B6, B7, B9, B10, C2, D2, D3, D4, D6, & D7	11	24" × 24"	4-#14S (TYP) 4-#10 × 14'-0" @ BOTT.	-do-	
C1	1	24" × 24"	4-#14S (TYP)	-do-	



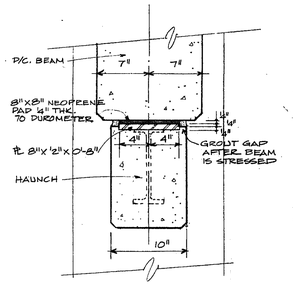
COL. BASE DETAIL (5/59)
SCALE: 1" = 1'-0"



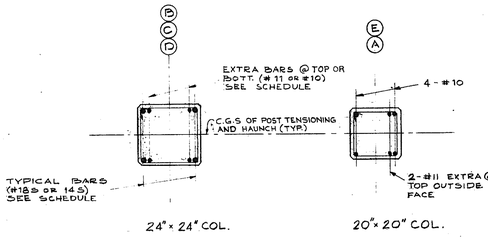
COLUMN HAUNCH DETAIL (6/59)
SCALE: 3/4" = 1'-0"



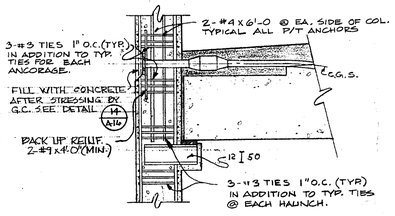
SECTION (10/59)



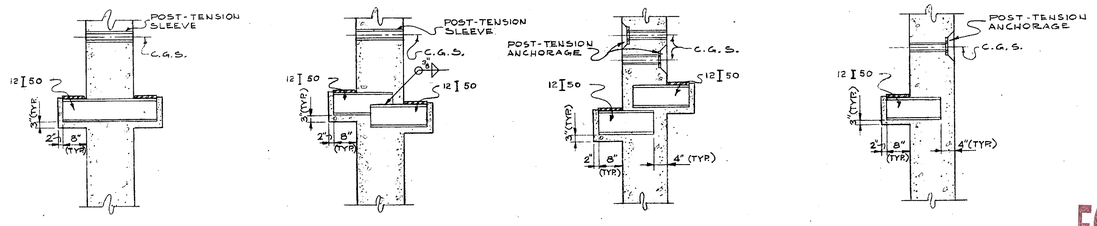
SECTION (11/59)
SCALE: 1½" = 1'-0"



COLUMN SECTIONS (7/59)
SCALE: 1/2" = 1'-0"



DETAIL (8/59)
SCALE: 3/8" = 1'-0"
TYPICAL COLUMN TIE ARRANGEMENT AT BEAM CONNECTION. C.I.P BEAMS SIMILAR



COLUMN HAUNCH DETAILS (9/59)
SCALE: 3/8" = 1'-0"
TYPICAL COLUMN SLEEVE & HAUNCH DETAILS

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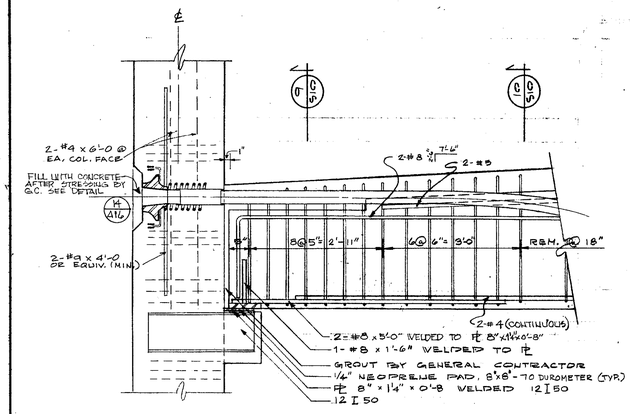
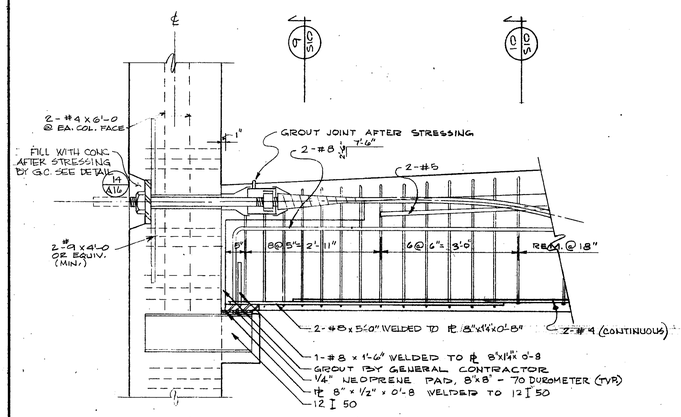
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
TRANSVERSE BENTS & PRECAST COLUMN DETAILS

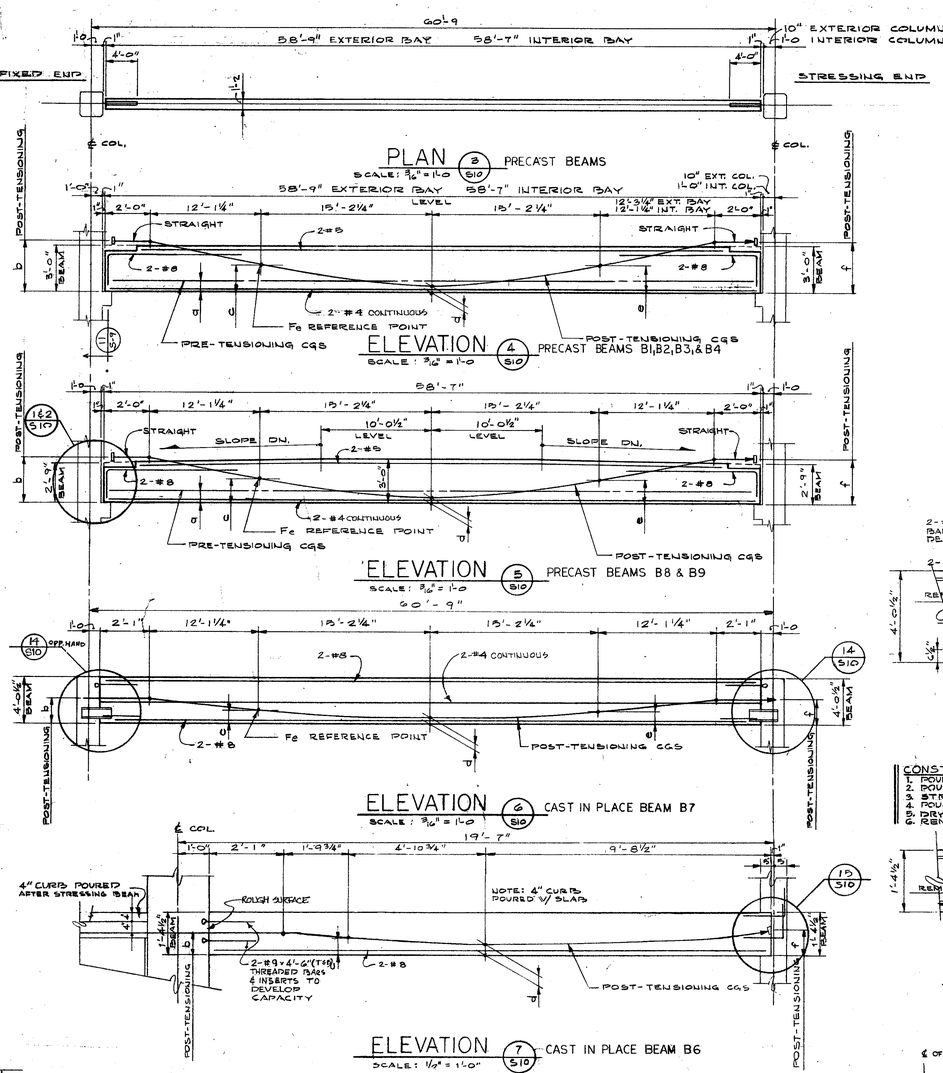
DRWG. NO. 59
JOB NO. 69426
DATE JULY 15, 1970
DESIGN VK DRAWN PP CHECK

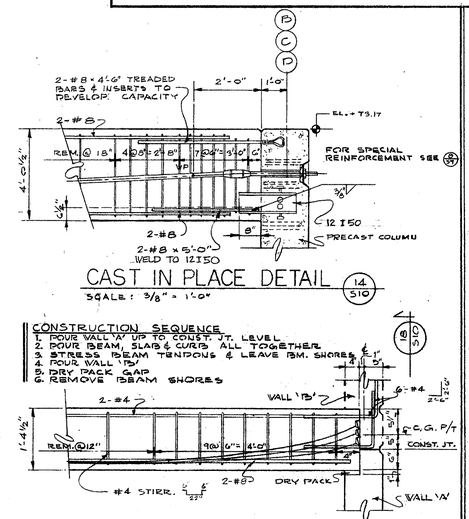


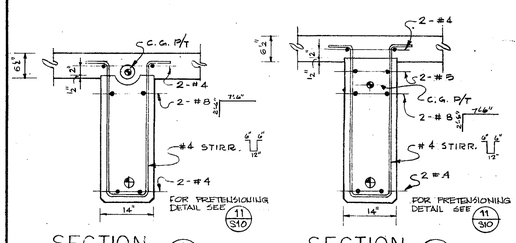
TYPICAL BEAM END DETAIL (1/510)
SCALE: 3/4" = 1'-0"

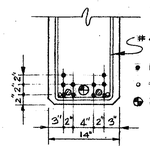


TYPICAL BEAM END DETAIL (ALT.) (2/510)
SCALE: 3/4" = 1'-0"

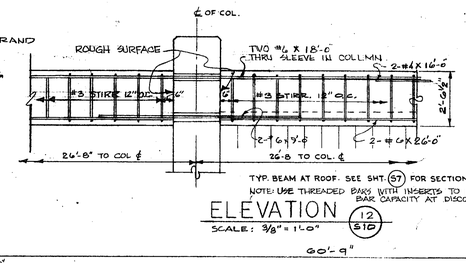


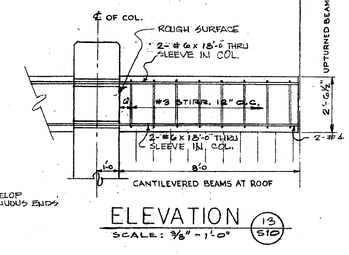


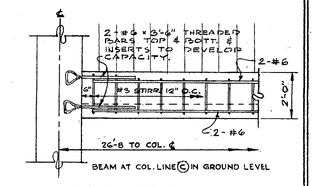


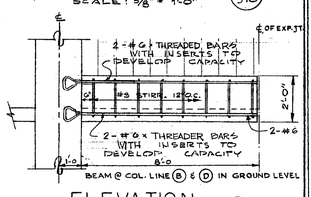


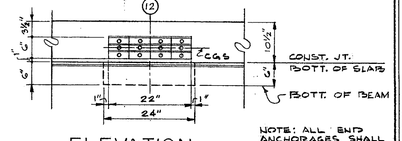
BEAM SECTION AT MIDSPAN (11/510)
SCALE: 1" = 1'-0"

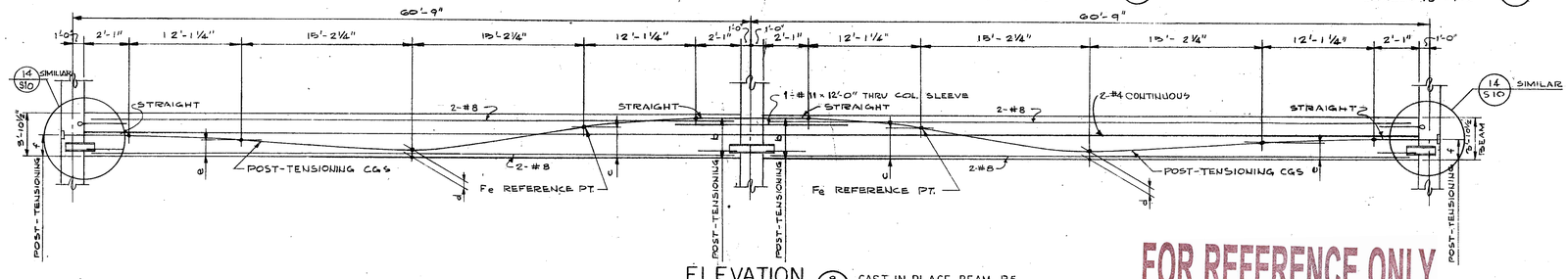












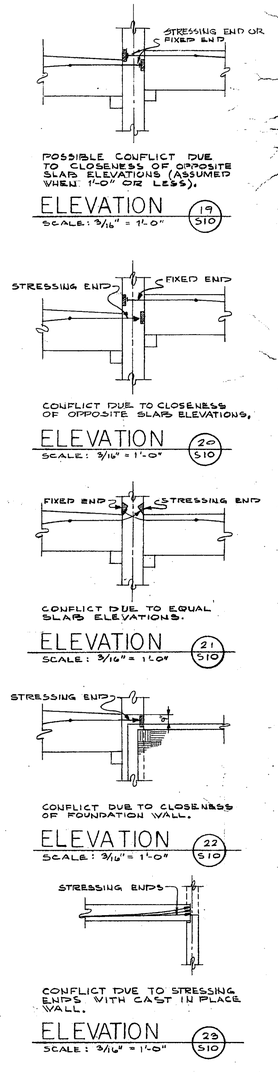
PRECAST POST-TENSIONED BEAM SCHEDULE

BEAM MARK	NO.	LENGTH	PRETENSIONING: NO. OF 1/2"ϕ (270K) STRAND	PRETENSIONING: a	POST-TENSIONING: Fe	b	c	d	e	f	REMARKS
B 1	60	58'-9"	10	3 1/2"	2 8 8 k	38"	12 1/8"	3 1/2"	12 1/8"	38"	BEAM ENDS NOT AT SAME LEVEL
B 2	20	58'-9"	10	3 1/2"	2 4 0 k	38"	12 1/8"	3 1/2"	12 1/8"	38"	—do—
B 3	20	58'-9"	10	3 1/2"	2 4 0 k	38"	12 1/8"	3 1/2"	12 1/8"	38"	—do—
B 4	20	58'-7"	10	3 1/2"	2 8 8 k	38"	12 1/8"	3 1/2"	12 1/8"	38"	BEAM. ENDS AT SAME LEVEL
B 5	2	58'-9"	—	—	4 8 0 k	42 1/2"	16 5/8"	8"	11 7/8"	23 1/2"	CAST IN PLACE
B 6	20	18'-6"	—	—	2 8 8 k	8 1/2"	5 5/8"	4 3/4"	6"	10"	—do—
B 7	2	58'-9"	—	—	3 8 4 k	28"	9 5/8"	3 1/2"	9 5/8"	28"	USE CLOSED STIRR. ONLY CAST IN PLACE (14/510)
B 8	88	58'-7"	10	3 1/2"	2 8 8 k	35"	11 3/8"	3 1/2"	11 3/8"	35"	
B 9	24	58'-7"	10	3 1/2"	2 4 0 k	35"	11 3/8"	3 1/2"	11 3/8"	35"	

NOTES TO PRECASTER

1. THE PRECAST CONNECTIONS SHOWN ARE "TYPICAL" ONLY. IT IS THE PRECASTER'S RESPONSIBILITY TO DESIGN AND DETAIL ALL CONNECTIONS AND SUBMIT TO ENGINEER PRIOR TO FABRICATION.
2. THE POST-TENSIONING SYSTEM COULD CONSIST OF WIRES OR STRANDS. THE PRECASTER SHOULD USE SUFFICIENT NUMBER OF STRANDS OR WIRES TO DEVELOP THE REQUIRED EFFECTIVE FORCE "Fe" AT THE "Fe" REFERENCE POINT. THE PRECASTER SHALL WORK OUT STRESSING PROCEDURES AND FRICTION CALCULATIONS AND SUBMIT TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
3. THE BEAM POST-TENSIONING WILL NOT BE STRESSED UNTIL THE POST-TENSIONING OF THE SLAB, LOADING THAT BEAM, HAS BEEN STRESSED.

POST-TENSIONING BEAM ANCHORAGES



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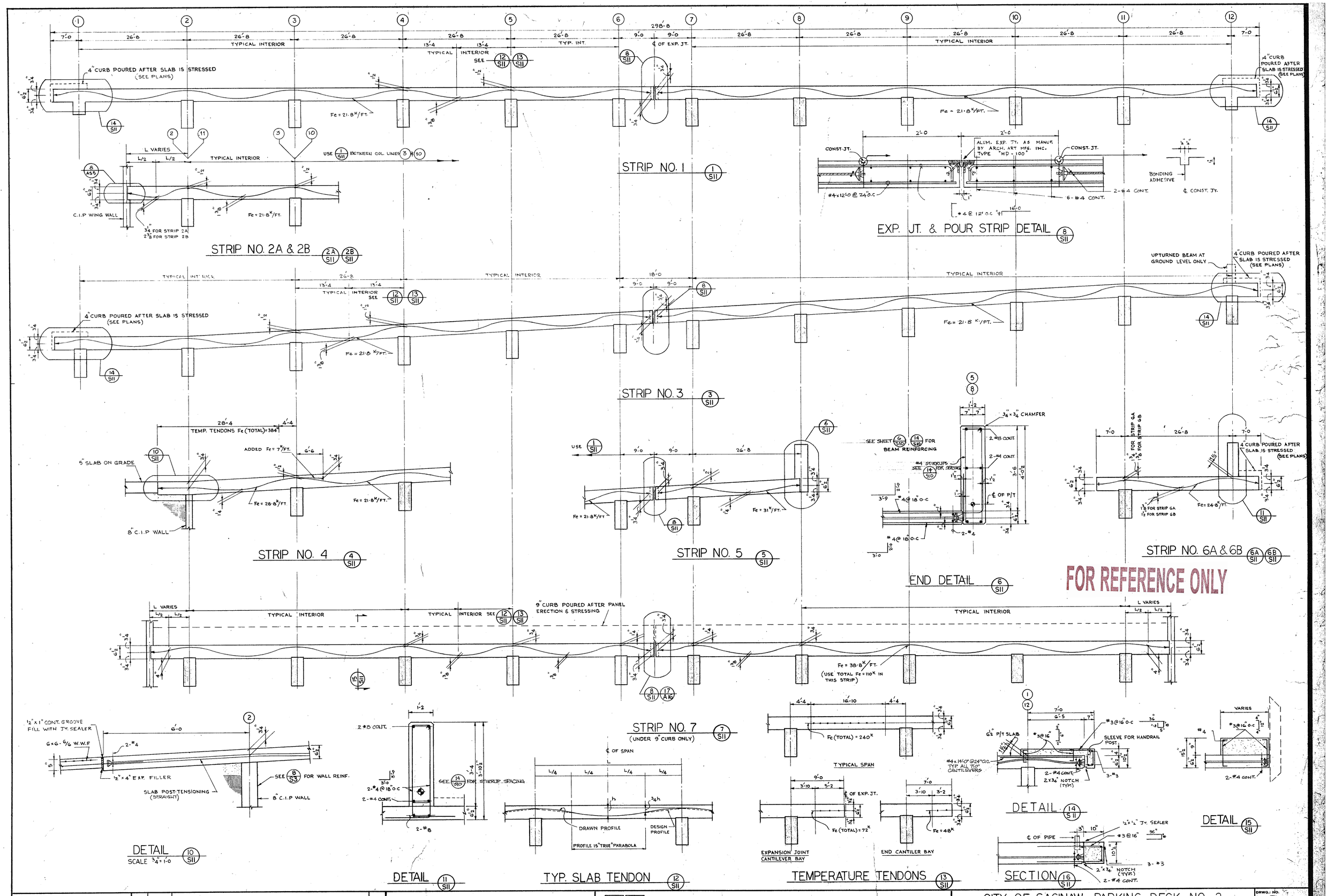
CITY OF SAGINAW PARKING DECK NO. 2
SAGINAW MICHIGAN
CITY OF SAGINAW \ BUILDING AUTHORITY
PRECAST POST BEAM DETAILS

DRWG.: NO. 510
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN | DRAWN: VK | CHECK: RP



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CITY OF SAGINAW PARKING DECK NO 2
SAGINAW MICHIGAN
CITY OF SAGINAW BUILDING AUTHORITY
POST TENSIONED SLAB SECTIONS & DETAILS

DRWG. NO. S11
JOB NO. 69426
DATE: JULY 15, 1970
DESIGN VK DRAWN OR CHECKED