WKE MAY 2014

PROJECT ID: 1000-40-70
WITH: N/A

COUNTY: MILWAUKEE

ORDER OF SHEETS

Section No. 1 Title
Section No. 2 Typical Sections and Details
Section No. 3 Estimate of Quantities
Section No. 3 Miscellaneous Quantities
~~Section No. 4 Right of Way Plat~~
Section No. 5 Plan and Profile
Section No. 6 Standard Detail Drawings
~~Section No. 7 Sign Plates~~
Section No. 8 Structure Plans
~~Section No. 9 Computer Earthwork Data~~
~~Section No. 9 Cross Sections~~

TOTAL SHEETS = 236

19

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MILWAUKEE INTERMODAL STATION

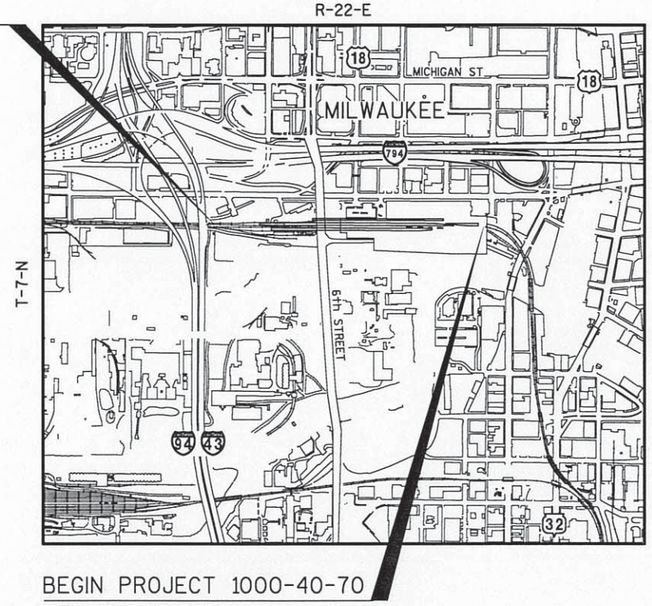
TRAIN SHED & PLATFORMS

NON-HIGHWAY

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1000-40-70

END PROJECT 1000-40-70
STA. 51+39.62
Y = 297,881.14
X = 602,590.22



BEGIN PROJECT 1000-40-70
STA. 27+96.93
Y = 297,862.56
X = 604,932.74

DESIGN DESIGNATION

A.A.D.T. (2010)	=	---
A.A.D.T. (2030)	=	---
D.H.V. (2030)	=	---
D.D.	=	---
T.	=	---
DESIGN SPEED	=	---
ESALS (20 YR)	=	---

CONVENTIONAL SYMBOLS

PLAN		PROFILE		UTILITIES	
CORPORATE LIMITS		GRADE LINE		ELECTRIC	E
PROPERTY LINE		ORIGINAL GROUND		FIBER OPTIC	FO
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK	GAS	G
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL	SANITARY SEWER	SAN
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36	STORM SEWER	SS
PROPOSED OR NEW R/W LINE				TELEPHONE	T
SLOPE INTERCEPT		CULVERT (Profile View)		WATER	W
REFERENCE LINE				UTILITY PEDESTAL	
EXISTING CULVERT				POWER POLE	
PROPOSED CULVERT (Box or Pipe)				TELEPHONE POLE	
COMBUSTIBLE FLUIDS	CAUTION				
MARSH AREA					
WOODED OR SHRUB AREA					

LAYOUT
SCALE 0 0.125 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.444 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MILWAUKEE COUNTY, NAD 83 (91).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929.

TO CONVERT ELEVATIONS SHOWN ON THIS PLAN TO CITY OF MILWAUKEE DATUM, SUBTRACT 580.603.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-40-70	WISC 2014176	1

ORIGINAL STRUCTURAL, DRAINAGE AND RAIL PLANS PREPARED BY

benesch
alfred benesch & company
Engineers · Surveyors · Planners
1300 W. Historical Street, Suite 400
Milwaukee, WI 53233
414.755.1310
www.benesch.com

WISCONSIN
WILLIAM J. ZIPPEL
38868-006
MILWAUKEE, WI
PROFESSIONAL ENGINEER

1/30/2014 (Date) (Signature)

ORIGINAL MEZZANINE AND PLATFORM PLANS PREPARED BY

GRAEF
One Honey Creek Corporate Center
125 South 84th Street
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

WISCONSIN
LOEI BADREDDINE
28595
MILWAUKEE, WI
PROFESSIONAL ENGINEER

01/28/2014 (Date) (Signature)

ORIGINAL ELECTRICAL AND MECHANICAL PLANS PREPARED BY

GRAEF
One Honey Creek Corporate Center
125 South 84th Street
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

WISCONSIN
WILLIAM D. BREUNIG
E-31819
GERMANTOWN, WI
PROFESSIONAL ENGINEER

01/28/14 (Date) (Signature)

ORIGINAL ARCHITECTURAL PLANS PREPARED BY

HANNO WEBER & ASSOCIATES
ARCHITECTURE/URBAN DESIGN
111 E. ADAMS ST. SUITE 702

WISCONSIN
HANNO WEBER
10339-005
CHICAGO, IL
ARCHITECT

01/28/14 (Signature)

B-G Rail

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	ALFRED BENESCH & CO
Designer	B-G RAIL
Project Manager	CRYSTAL DUPONT
Regional Examiner	
Regional Supervisor	
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 1/30/2014 (Signature)

E

ORDER OF SHEETS

SECTION	DESCRIPTION
2	GENERAL NOTES
2	PROJECT OVERVIEW
2	TYPICAL SECTIONS
2	CONSTRUCTION DETAILS
2	SITE DEMOLITION PLAN
2	SITE DEVELOPMENT PLAN
2	STORM SEWER PLAN
2	SITE UTILITY PLAN
2	MECHANICAL PLANS
2	ELECTRICAL PLAN
2	STAGE CONSTRUCTION
2	ALIGNMENT AND TIES
3	MISCELLANEOUS QUANTITIES
5	PLAN PROFILE - RR
5	SITE GRADING PLAN
6	STANDARD DETAIL DRAWINGS
8	ARCHITECTURAL DETAILS
8	STRUCTURAL DETAILS

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ANY AFFECTED UTILITIES THAT ARE NOT MEMBERS OF DIGGERS HOTLINE, PRIOR TO THE START OF WORK.

2. CONTRACTOR SHALL SUBMIT AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) FOR APPROVAL PRIOR TO START OF CONSTRUCTION. ECIP SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONSTRUCTION METHODS, LOCATION AND MATERIALS DETAILED IN THE PLANS.

3. LOCATIONS OF MANHOLES AND INLETS IN ROADWAY ARE REFERENCED TO THE CENTER OF THE STRUCTURE. LOCATIONS OF MANHOLES AND INLETS IN THE GUTTER ARE REFERENCED TO THE EDGE OF THE FLANGE OF THE CURB.

UTILITY CONTACTS

WE ENERGIES (GAS)
SEND ALL CORRESPONDECE TO:
MR. LaTROY BRUMFIELD
333 W. EVERETT ST - A299
MILWAUKEE, WI 53203
(414)221-5617

GAS CONSTRUCTION FIELD CONTACT:
MR. TOM MINERAL
500 S. 116TH ST
WEST ALLIS, WI 53214
(414) 944-5755

WE ENERGIES (ELECTRIC)
SEND ALL CORRESPONDECE TO:
MR. LaTROY BRUMFIELD
333 W. EVERETT ST - A299
MILWAUKEE, WI 53203
(414)221-5617

ELECTRIC CONSTRUCTION FIELD CONTACT:
MR. KEN FRANECKI
500 S. 116TH ST
WEST ALLIS, WI 53214
(414) 944-5531

WE ENERGIES (STEAM)
SEND ALL CORRESPONDECE TO:
MR. LaTROY BRUMFIELD
333 W. EVERETT ST - A299
MILWAUKEE, WI 53203
(414)221-5617

CONSTRUCTION FIELD CONTACT:
MR PAUL HUBBARD
333 W. EVERETT ST - A279
MILWAUKEE, WI 53203
(414)221-2391

AMERICAN TRANSMISSION COMPANY
CHRIS DAILEY
N19 W23993 RIDGEVIEW PARKWAY WEST
PO BOX 47
WAUKESHA, WI 53187-0047
(262) 506-6584

PLANNING SERVICES SUPERVISOR
MILWAUKEE METRO SEWERAGE DIST.
MS. DEBRA JENSEN
260 W SEEBOTH ST
MILWAUKEE, WI 53204-1446
(414) 225-2143

TIME WARNER CABLE
MR. STEVE CRAMER
1320 N MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
(414) 227-4045

CITY OF MILWAUKEE - SEWER
ZAFAR YOUSUF
841 N BROADWAY, ROOM 821
MILWAUKEE, WI 53202
(414) 286-2467

AT&T WISCONSIN, INC
JAY BULANEK
7721 W FOND DU LAC AVE
MILWAUKEE, WI 53218
(414) 535-7407

OTHER AGENCIES

WISDOT
CRYSTAL DUPONT
433 W ST PAUL AVENUE, SUITE 300
MILWAUKEE, WI 53203-3007
(414) 507-2155

WISCONSIN DNR
MICHAEL C THOMPSON
2300 N MARTIN LUTHER KING JR DR.
MILWAUKEE, WI 53212
(414) 263-8648

CITY OF MILWAUKEE
JEFFREY S. POLENSKE
CITY ENGINEER
(414) 286-2400

CANADIAN PACIFIC RAILWAY
EDWARD OOM
11306 FRANKLIN AVE
FRANKLIN PARK, IL
OFFICE - (630) 860-4975
MOBILE - (630) 701-5882

CANADIAN PACIFIC RAILWAY
CONSTRUCTION CONTACT
EDDIE CASTILLO
(773) 350-4670

CANADIAN PACIFIC RAILWAY
CONSTRUCTION CONTACT
ED SERDYNSKI
(262) 895-2415

AMTRAK
JIM BRZEZINSKI
525 W VAN BUREN STREET
CHICAGO, IL 60607
(312) 965-9982

GREYHOUND-MCMILLAN BUS LLC
BRIAN MCMILLAN
433 WEST ST. PAUL AVENUE, SUITE 150
MILWAUKEE, WI 53203
(517) 388-0449

UNITED STATES POSTAL SERVICE
JOSEPH CECI
GREAT LAKES FACILITIES SERVICE OFFICE - LAKELAND DOMICILE
PO BOX 505
HALES CORNERS WI 53130-0505
(414) 525-7861

CHARTER MANUFACTURING
MARK KASLOW
PO BOX 183
MILWAUKEE, WI 53201
(414_ 640-7669

ALFRED BENESCH & COMPANY
BILL ZIPPEL
1300 W CANAL STREET STE 150
MILWAUKEE, WI 53233
(414) 308-1321

CALL BEFORE YOU DIG
CP ONE CALL
(888) 291-0741

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Dial 811 or (800)242-8511
www.DiggersHotline.com

2

N

INTERSTATE 794

6TH ST.

5TH ST.

4TH ST.

3TH ST.

2ND ST.

ST. PAUL AVE.

MIS DEPOT

POST OFFICE

52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29

END PROJECT
END CONSTRUCTION
STA 51+39.62
Y = 297,881.14
X = 602,590.22

℄ MAIN NO. 2

MIS SHED

BEGIN PROJECT
BEGIN CONSTRUCTION
STA 27+96.93
Y = 297,862.56
X = 604,932.74

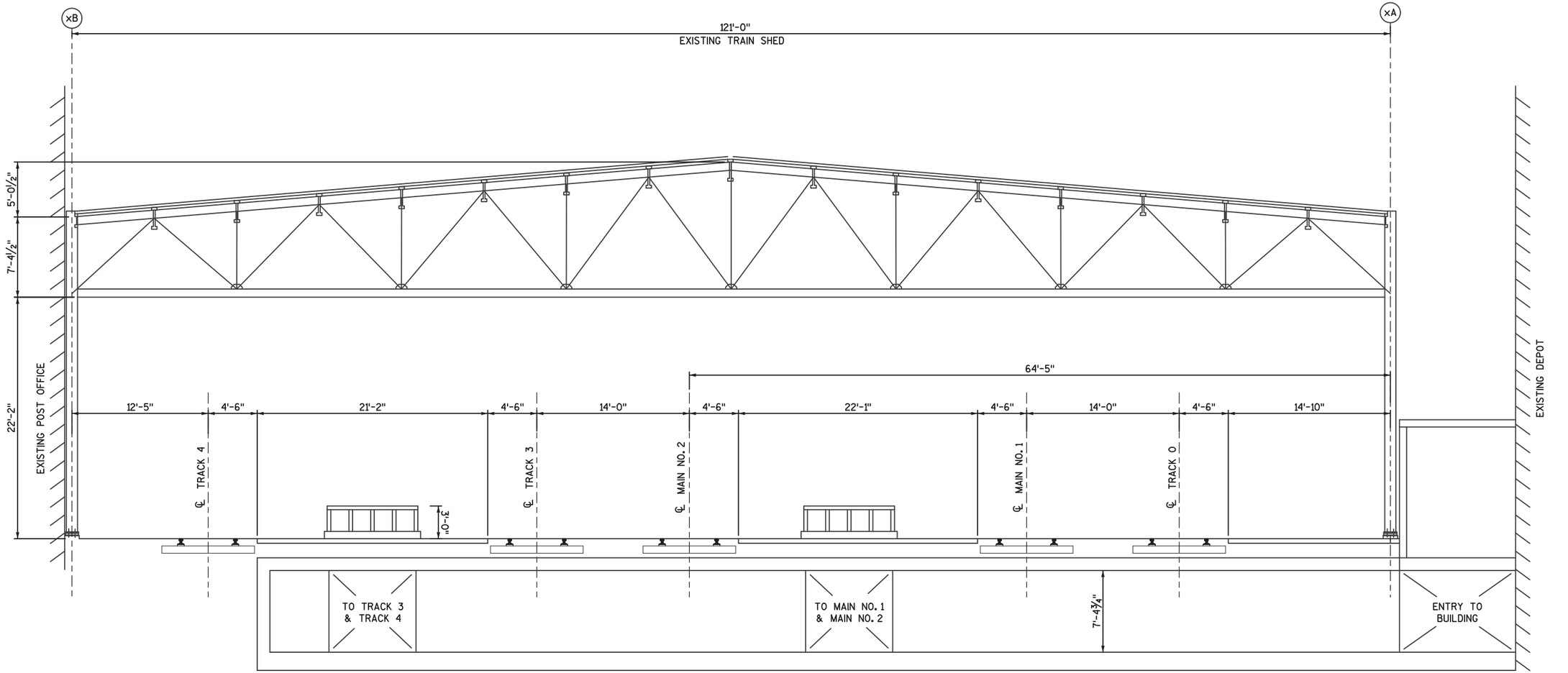
MENOMONEE RIVER

0 100 200
SCALE, FEET

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

2

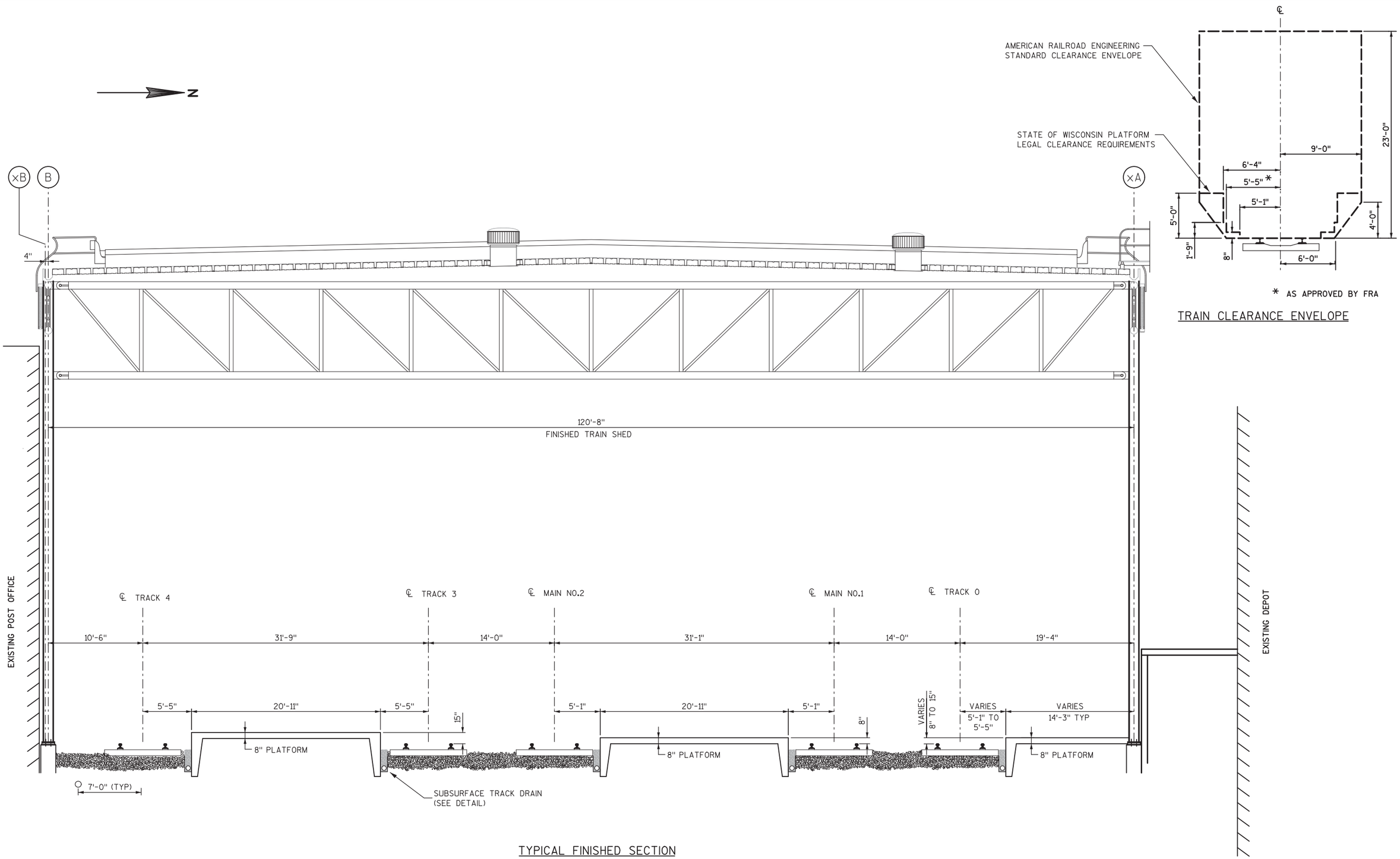
N



TYPICAL EXISTING SECTION

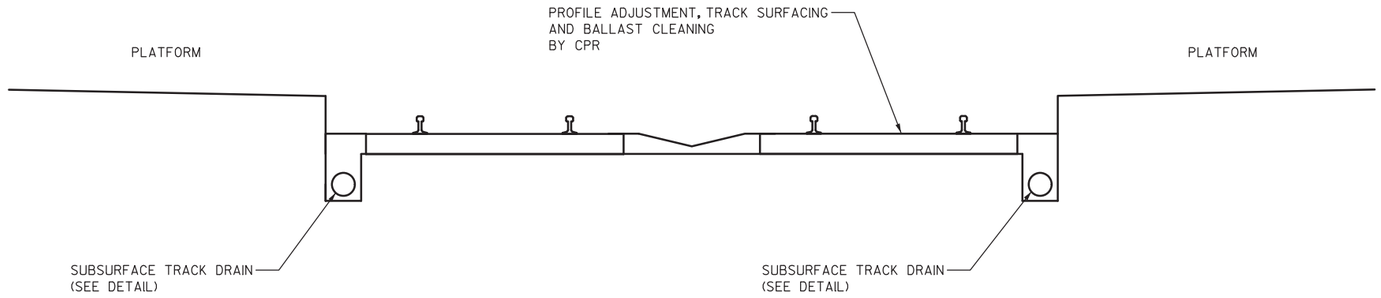
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Sheets\20038_TYP01.dgn PLOT DATE : 5/31/2013 PLOT BY : bweigand PLOT NAME : PLOT SCALE : 1:10



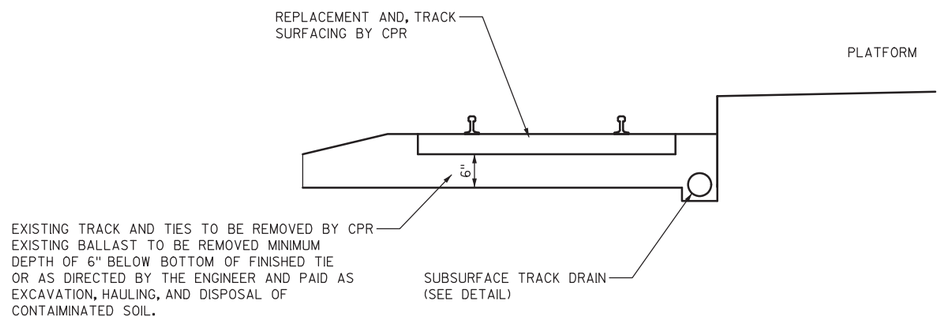
TYPICAL FINISHED SECTION

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 5	E



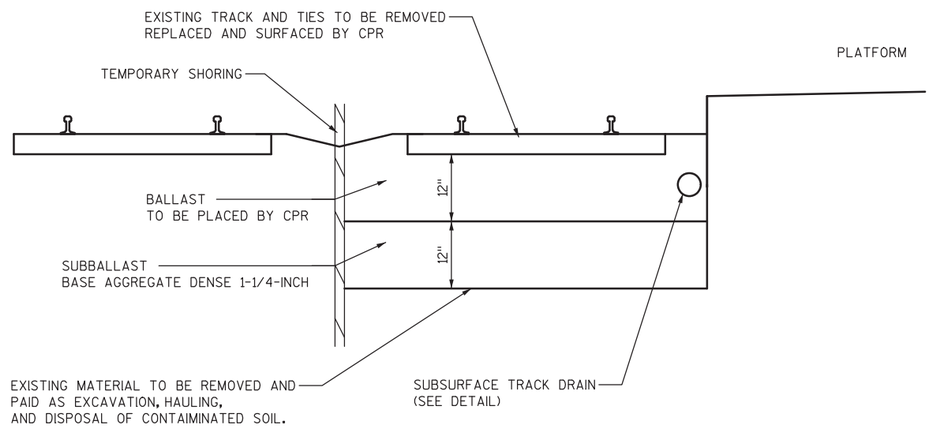
TYPICAL FINISHED SECTION

THROUGH PLATFORMS
TRACK 0: 131+73 - 137+25, 138+90 - 142+86
MAIN NO. 1: 232+94 - 245+97
MAIN NO. 2: 32+94 - 45+97
TRACK 3: 432+94 - 445+97
TRACK 4: 532+94 - 536+50, 541+00 - 545+97



TYPICAL FINISHED SECTION

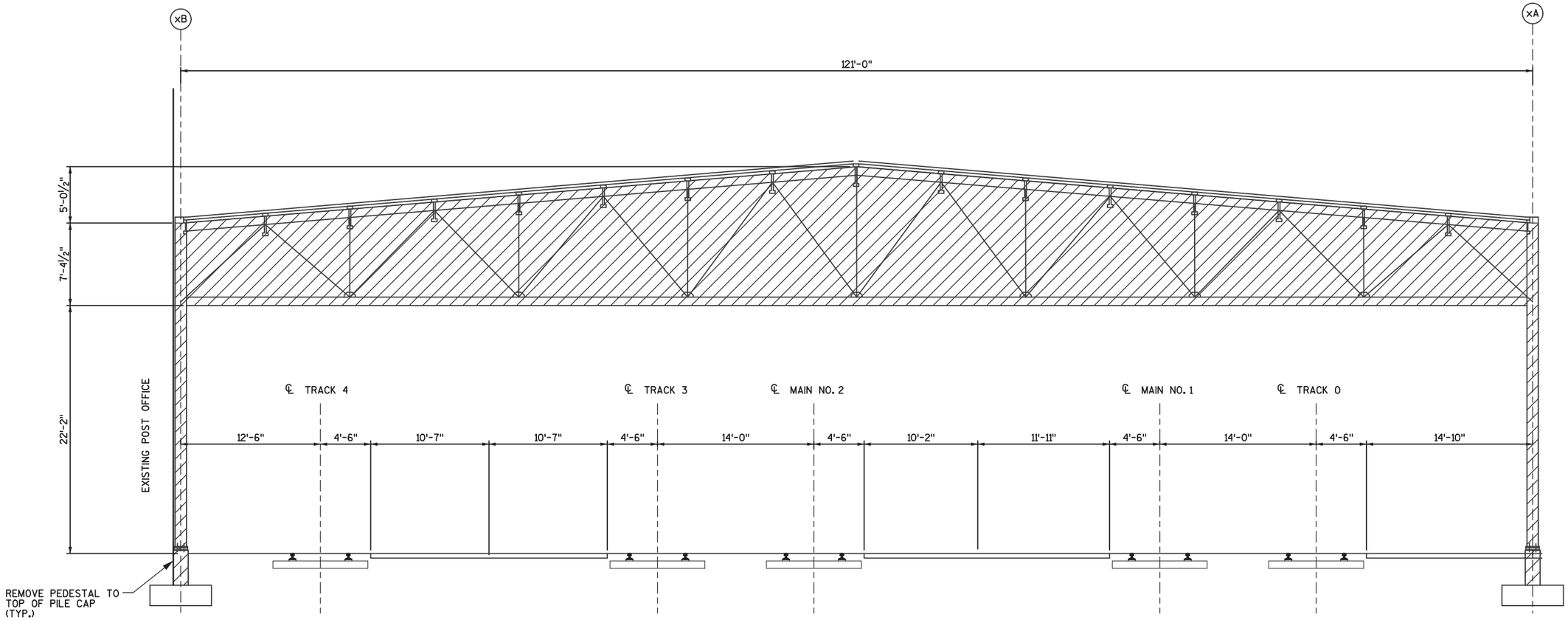
TRACK 4: 536+50 - 541+00



TYPICAL FINISHED SECTION

BACKFILL OVER STORM SEWER WORK
TRACK 0: 137+25 - 138+90

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 6	E



TRAIN SHED REMOVAL LIMITS

NOTES:
1. REMOVAL REQUIRED FOR EXISTING CANOPY ON CENTER PLATFORM. CANOPY CONSISTS OF 9 CIRCULAR CONCRETE COLUMNS AND A CONCRETE ROOF. THE TOTAL LIMITS ARE FROM STATION 42+80 STATION 45+30.
2. ESTIMATED TOTAL TRUSS WEIGHT = 9100 LBS. EACH
3. WHERE EXISTING STEEL FRAMES INTO ADJACENT BUILDINGS TO REMAIN, FIELD CUT STEEL TO BE REMOVED AT FACE OF WALL.

= SHED REMOVAL

N

X16 X15 X14 X13 X12 X11 X10 X9 X8 X7 X6

x3 xA xC

18'-0" 26'-4" 22'-9" 9'-4" 6'-6"

SAWCUT WALLS 6'-0" ABOVE TUNNEL FLOOR

NO SHORING REQUIRED STAIR 4

REMOVE CEILING THIS AREA. REMOVE FLOOR SLAB AS NEEDED FOR NEW STAIRS AND FLOORS.

REMOVE FLOOR SLAB AND TUNNEL WALLS WHERE CONFLICTS WITH PROPOSED ESCALATORS AND SIGN COLUMNS.

REMOVE WALL AT STAIR

℄ TRACK 0

SHORING REQUIRED

VERTICAL SAWCUT (TYP.)

EXISTING RAMP WALLS TO REMAIN WHERE NEW STAIRS ARE TO BE CONSTUCTED OR REMOVE EXISTING RAMP WALLS TO 2' BELOW GRADE WHERE NEW PLATFORMS ARE TO BE CONSTRUCTED.

℄ MAIN NO. 1

18'-0" 26'-4" 22'-9" 9'-4" 6'-6"

DEMO WALLS TO 12" BELOW PLATFORM

SAWCUT WALLS 9'-6" ABOVE TUNNEL FLOOR

SHORING REQUIRED

SAWCUT WALLS 9'-6" ABOVE TUNNEL FLOOR

℄ EXISTING TUNNEL

SHORING REQUIRED STAIR 2

NO SHORING REQUIRED

ELECTRICAL ROOM

NO SHORING REQUIRED

40'-0"

℄ MAIN NO. 2

FILL OVER TOP OF FLOOR SLAB WHERE SLAB REMAINS IN PLACE WITH COMPACTED GRANULAR MATERIAL. TYPICAL AT ALL FIVE EXISTING RAMP LOCATIONS.

REMOVE CEILING THIS AREA. REMOVE FLOOR SLAB AS NEEDED FOR NEW STAIRS AND FLOORS.

SAWCUT WALLS 6'-0" ABOVE TUNNEL FLOOR

REMOVE CEILING THIS AREA. REMOVE FLOOR SLAB AS NEEDED FOR NEW STAIRS AND FLOORS.

REMOVE FLOOR SLAB AND TUNNEL WALLS WHERE CONFLICTS WITH PROPOSED ESCALATORS AND SIGN COLUMNS.

WHALER (TYP)

JACK POST

℄ TRACK 3

DEMO WALLS TO 12" BELOW PLATFORM

SAWCUT WALLS 9'-6" ABOVE TUNNEL FLOOR

18'-0" 26'-4" 22'-9" 9'-4" 6'-6"

SAWCUT WALLS 9'-6" ABOVE TUNNEL FLOOR

TYPICAL WALL SHORING @ TUNNEL

INSTALL SHORING PRIOR TO WALL CUTTING & CEILING REMOVAL

COORDINATE SHORING INSTALL WITH CONCRETE CUTTER TO ALLOW CLEARANCE FOR CUTTING

℄ EXISTING TUNNEL

NO SHORING REQUIRED

SHORING REQUIRED STAIR 1

ELECTRICAL ROOM

NO SHORING REQUIRED

40'-0"

SHORING REQUIRED

REMOVE BLOWER THIS LOCATION

SUMP PUMP TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION

℄ TRACK 4

REMOVE FLOOR SLAB AND TUNNEL WALLS WHERE CONFLICTS WITH PROPOSED ESCALATORS AND SIGN COLUMNS.

① REMOVAL PLAN

NOTES:

1. CAP ALL EXISTING UTILITIES WITHIN THE TUNNEL.
2. REMOVE SPRINKLER SYSTEM AND CAP WITHIN DEPOT BUILDING.

HATCH AREAS INDICATE CONCRETE REMOVAL

REMOVE RAILING AND OVERHEAD SIGNS (TYP)

DO NOT REMOVE SHORING UNTIL CEILING AND/OR PLATFORM SLABS ARE IN PLACE

② ELEVATION OF TUNNEL @ PROP STAIRS 1 & 2

③ ELEVATION OF TUNNEL @ PROP STAIR 4 & ELECTRICAL ROOMS

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	TUNNEL REMOVAL PLAN	SHEET 8	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Sheets\20038_TunnelRemoval.dgn PLOT DATE : 5/31/2013 PLOT BY : bweigand PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 42

N

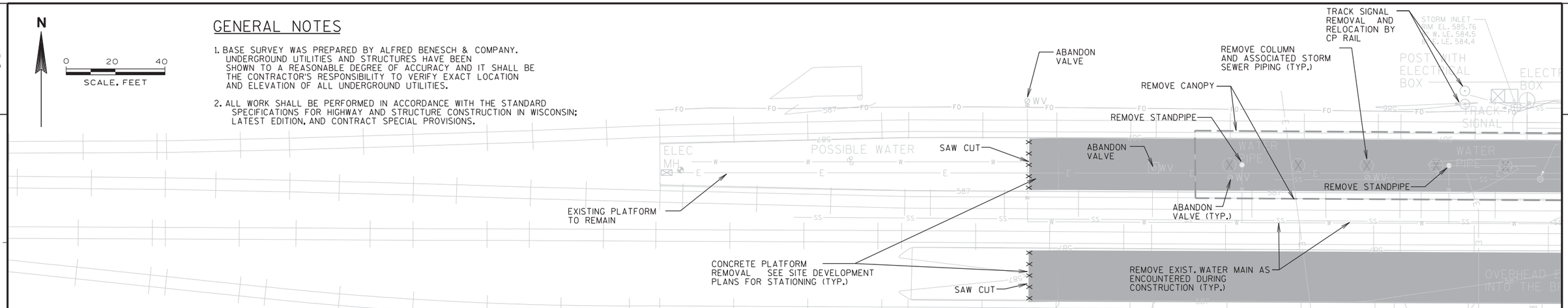
0 20 40

SCALE. FEET

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.



LEGEND

- CONCRETE REMOVAL
- ASPHALT REMOVAL
- X — COLUMN, TELEPHONE POLE, AND SPEAKER BOX REMOVAL
- X X X X — SAW CUT PAVEMENT
- — — — CANOPY REMOVAL
- TUNNEL REMOVAL (SEE STRUCTURAL PLANS)
- /////// — FENCE REMOVAL

REMOVAL NOTES

1. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.

2. CONTRACTOR TO VERIFY ALL EXISTING LINES NOTED FOR ABANDONMENT OR REMOVAL. EXISTING UTILITIES MUST REMAIN IN SERVICE UNTIL NEW UTILITIES OR PLUMBING IS INSTALLED.

3. ASPHALT AND CONCRETE PAVEMENT NOTED FOR REMOVAL SHALL BE SAW CUT TO FULL DEPTH IN COORDINATION WITH CONSTRUCTION STAGING PRIOR TO REMOVAL.

4. CONTRACTOR IS RESPONSIBLE FOR SECURING THE JOB SITE TO PROTECT THE PUBLIC.

5. UTILITIES SHALL BE REMOVED TO LOCATIONS INDICATED ON PLANS. ALL MANHOLES AND INLETS ALONG REMOVED SEWER SHALL BE REMOVED. MANHOLES AND INLET RIMS AND CASTINGS SHALL BE SALVAGED AND GIVEN TO OWNER UNLESS OTHERWISE NOTED.

6. ALL DEMOLITION SHALL BE COORDINATED WITH CANADIAN PACIFIC RAIL TO ASSURE TRACK, SIGNAL, AND SWITH REPLACEMENT OCCURS WITH PROPER CONSTRUCTION STAGE.

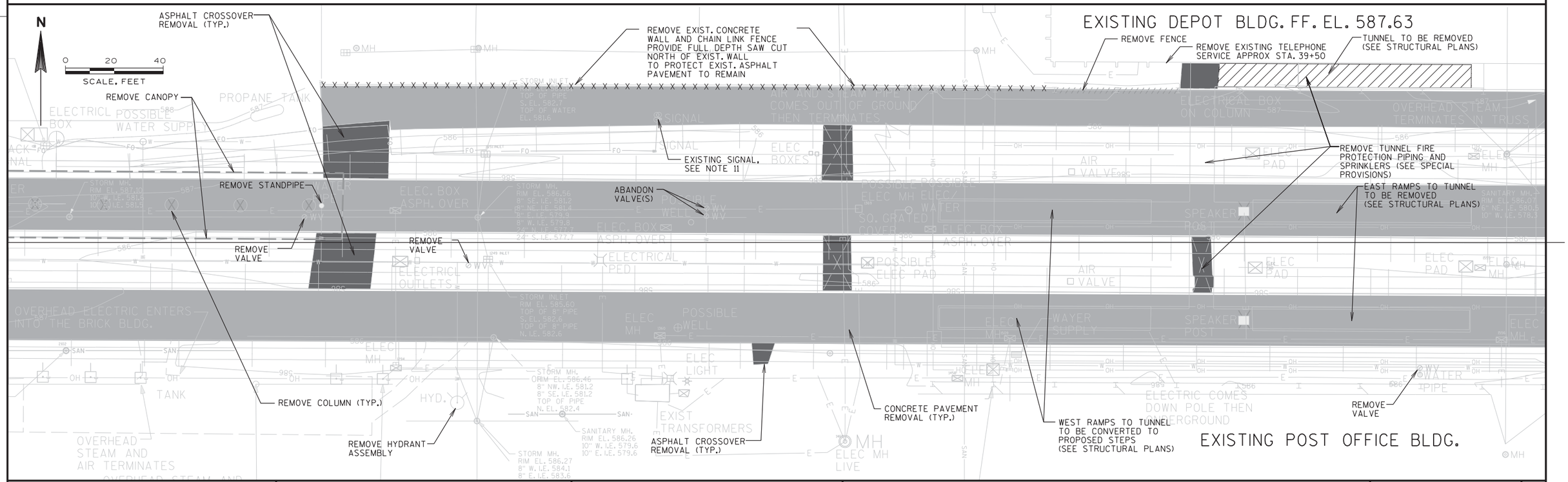
7. ALL MATERIALS ASSOCIATED WITH SWITCH OPERATIONS SALVAGED WITHIN PLATFORM LIMITS IS PROPERTY OF CANADIAN PACIFIC RAILWAY.

8. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UTILITIES ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION IN CONFLICT WITH PROPOSED STRUCTURES OR EXCAVATION.

9. EXISTING SITE WATER PIPING WITHIN PROJECT LIMITS HAS BEEN ABANDONED WITH PREVIOUS WORK. VALVES, HYDRANTS, AND ASSOCIATED PIPING SHALL BE REMOVED AS ENCOUNTERED WITH EXCAVATION.

10. SEE ELECTRICAL PLANS FOR ELECTRICAL ABANDONMENT LOCATIONS.

11. EXISTING SIGNAL TO BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION, AND RE-SET WITH NEW PLATFORM. COORDINATE WITH CP RAIL.



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE DEMOLITION PLAN	SHEET 9	E

EXISTING DEPOT
BLDG. FF. EL. 587.63

EXIST. POST OFFICE BLDG.

N

0 20 40
SCALE. FEET

REMOVE EXIST.
UTILITY POLE (TYP.)

ASPHALT PAVEMENT
REMOVAL (TYP.)

CONCRETE PAVEMENT
REMOVAL (TYP.) SEE SITE
DEVELOPMENT PLANS FOR
STATIONING OF REMOVAL
EXTENTS

SAW CUT

EXISTING PLATFORM TO REMAIN

ABANDON VALVE (TYP.)

SAW CUT

REMOVE EXIST. WATER MAIN AS
ENCOUNTERED DURING
CONSTRUCTION (TYP.)

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.
3. REMOVE EXISTING

CONCRETE PAVEMENT
REMOVAL (TYP.)

REMOVE UTILITY
POLE (TYP.)

EXISTING SIGNAL,
SEE NOTE 11

LEGEND

- CONCRETE PAVEMENT REMOVAL
- ASPHALT PAVEMENT REMOVAL
- X — COLUMN, TELEPHONE POLE, AND SPEAKER BOX REMOVAL
- X X X X SAW CUT
- — — CANOPY REMOVAL
- TUNNEL REMOVAL (SEE STRUCTURAL PLANS)
- /////// FENCE REMOVAL

N

0 20 40
SCALE. FEET

REMOVAL NOTES

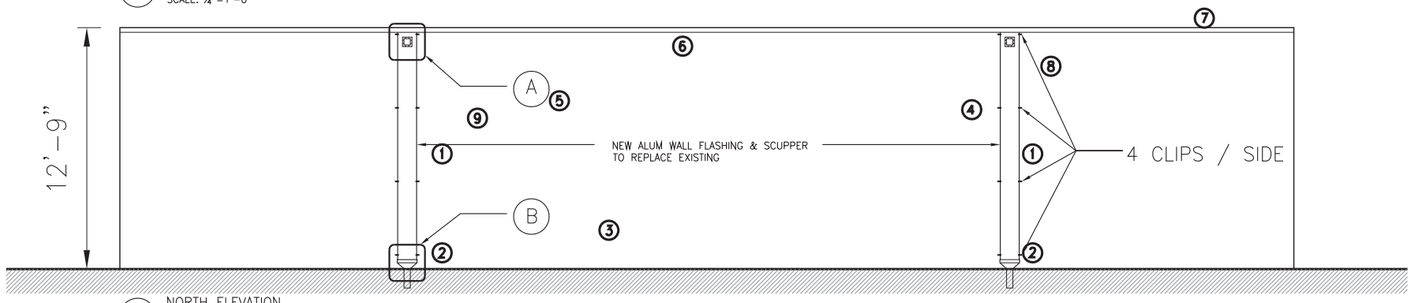
1. EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AND DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO COMMENCING WORK.
2. CONTRACTOR TO VERIFY ALL EXISTING LINES NOTED FOR ABANDONMENT OR REMOVAL. EXISTING UTILITIES MUST REMAIN IN SERVICE UNTIL NEW UTILITIES OR PLUMBING IS INSTALLED.
3. ASPHALT AND CONCRETE PAVEMENT NOTED FOR REMOVAL SHALL BE SAW CUT TO FULL DEPTH PRIOR TO REMOVAL.
4. CONTRACTOR IS RESPONSIBLE FOR SECURING THE JOB SITE TO PROTECT THE PUBLIC.
5. UTILITIES SHALL BE REMOVED TO LOCATIONS INDICATED ON PLANS. ALL MANHOLES AND INLETS ALONG REMOVED SEWER SHALL BE REMOVED. MANHOLES AND INLET RIMS AND CASTINGS SHALL BE SALVAGED AND GIVEN TO OWNER UNLESS OTHERWISE NOTED.
6. ALL DEMOLITION SHALL BE COORDINATED WITH CANADIAN PACIFIC RAIL TO ASSURE TRACK, SIGNAL, AND SWITH REPLACEMENT OCCURS WITH PROPER CONSTRUCTION STAGE.
7. ALL MATERIALS ASSOCIATED WITH SWITCH OPERATIONS SALVAGED WITHIN PLATFORM LIMITS SHALL BECOME PROPERTY OF CANADIAN PACIFIC RAILWAY.
8. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UTILITIES ENCOUNTERED DURING DEMOLITION OR CONSTRUCTION IN CONFLICT WITH PROPOSED STRUCTURES OR EXCAVATION.
9. EXISTING SITE WATER PIPING WITHIN PROJECT LIMITS HAS BEEN ABANDONED WITH PREVIOUS WORK. VALVES, HYDRANTS, AND ASSOCIATED PIPING SHALL BE REMOVED AS ENCOUNTERED WITH EXCAVATION.
10. SEE ELECTRICAL PLANS ELECTRICAL ABANDONMENT LOCATIONS.
11. EXISTING SIGNAL TO BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION, AND RE-SET WITH NEW PLATFORM. COORDINATE WITH CP RAIL.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE DEMOLITION PLAN	SHEET 10	E

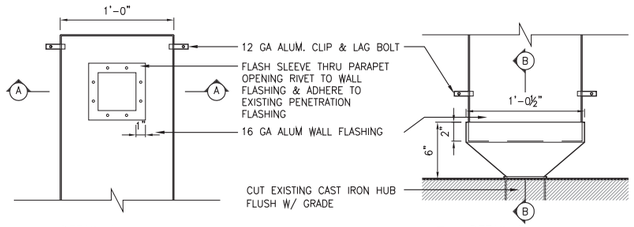
FILE NAME : L:\Jobs2010\20100072-02\CAD\Site\dgn\00\C_00_DEM001A_072.dgn PLOT DATE : 7/1/2013 PLOT BY : FJK PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

1 SELECTIVE DEMOLITION NORTH ELEVATION
SCALE: ⅛"=1'-0"

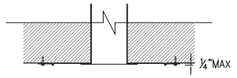


2 NORTH ELEVATION
SCALE: ⅛"=1'-0"

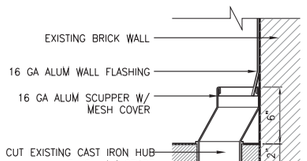


3 DETAIL A
SCALE: 1½"=1'-0"

5 DETAIL B
SCALE: 1½"=1'-0"



4 SECTION A-A
SCALE: 1½"=1'-0"



6 SECTION B-B
SCALE: 1½"=1'-0"

1. REMOVE EXISTING SCUPPER & DOWNSPOUT RETAIN EXISTING METAL FLASHING THROUGH MASONRY PARAPET.
2. CUT & RELOCATE EXISTING CAST IRON INLET PIPE FLUSH TO GRADE.
3. REMOVE EXISTING SURFACE MOUNTED METAL BOX. CUT EXISTING PIPING WITHIN THE BOX FLUSH WITH WALL & CAP & SEAL MASONRY PENETRATION AROUND PIPE.
4. REMOVE EXISTING CONDENSATE PIPING, CAP & SEAL MASONRY PENETRATION FLUSH WITH WALL.
5. REMOVE EXISTING STEAM PIPING, CAP & SEAL MASONRY PENETRATION FLUSH WITH WALL.
6. REMOVE EXISTING CONDUIT & RELOCATE TO ENTER ON THE EAST WALL. SEAL WALL PENETRATION.
7. REMOVE EXISTING WIRE.
8. REMOVE EXISTING WIRE & JUNCTION BOX & RELOCATE ON WEST WALL. SEAL MASONRY OPEINGS.
9. REMOVE EXISTING LADDER HARDWARE & SEAL MASONRY OPENINGS.
10. REMOVE EXISTING TANK & RELATED PIPING.

SELECTIVE DEMOLITION AND REVISIONS NOTES

i. Verify that electrical and mechanical services have been disconnected and capped.

ii. When unanticipated electrical, mechanical or structural elements that conflict with the intended removal are encountered, promptly submit a written report to the Architect/ Engineer

iii. Provide temporary enclosures for the protection of the work area from other construction operations.

iv. Use suitable methods to limit the spread of demolition work dust.

v. Remove and transport demolition debris to prevent spillage.

vi. Demolish and remove specified items shown on the drawing only to the extent required to enable the existing surfaces to return to the condition existing before demolition.

vii. Refer to Specification Section 07 61 00 **Sheet Metal Gutters and Flashing** for new sheet metal work.

viii. Refer to Specification Section 07 92 00 **Joint Sealants** in the new work.

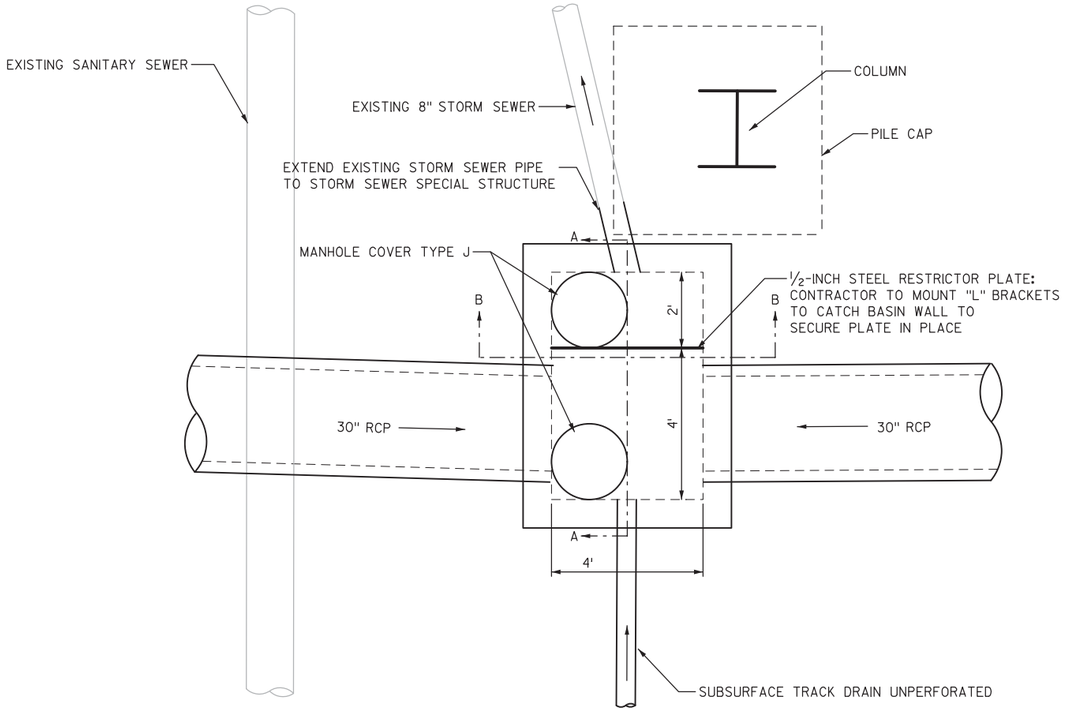
ix. Refer to Specification Section 03 41 20 **Precast Concrete Patching** similar in intent to the required new masonry patching.

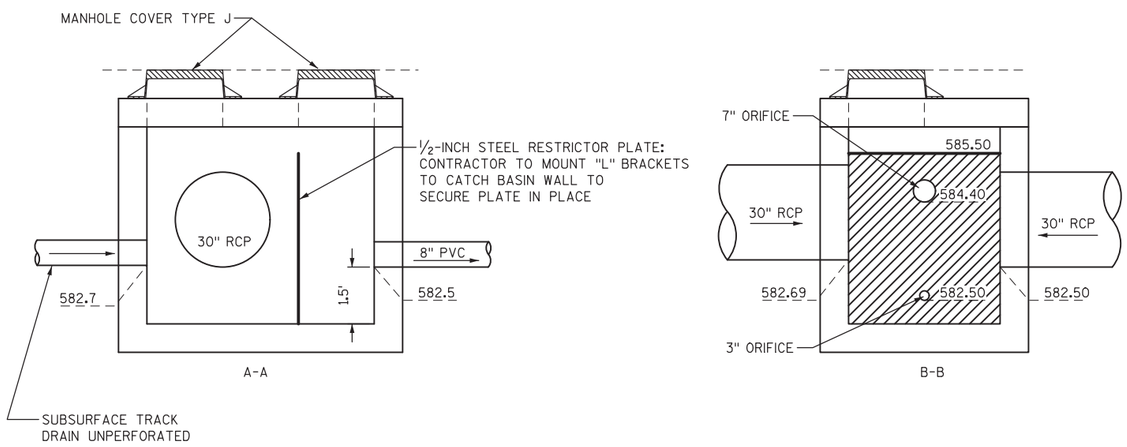
x. Refer to Specification Section 26 05 01 **Minor Electrical Demolition and Alterations** for the removal and relocation of electrical items

xi. Refer to Specification Section 22 14 00 **Facility Storm Drainage** for alterations to the existing drainage piping.

xii. Refer to Specification Section **Steam Pipe Demolition and Alteration** for the removal of the existing steam lines & tank.

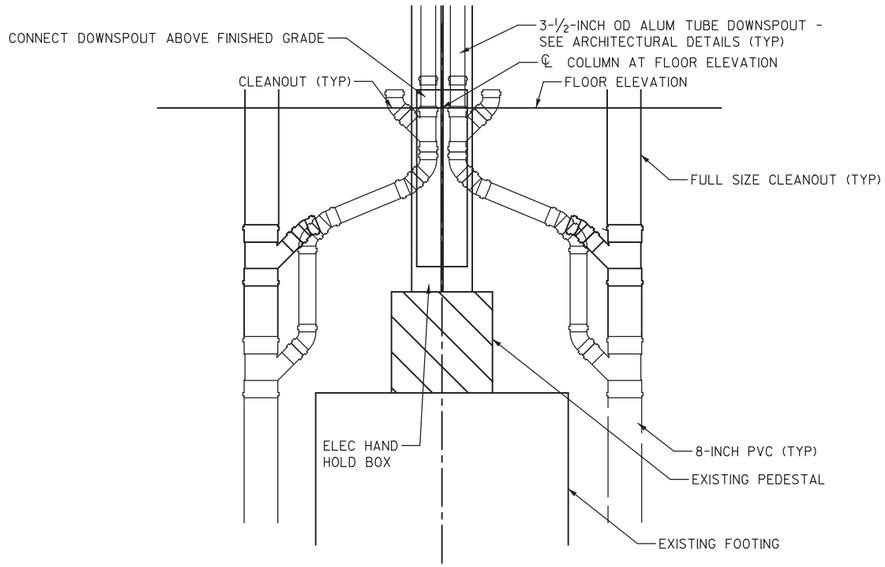
xiii. Clean all surfaces of dust and dirt and surrounding area of debris caused by the selective demolition operations.





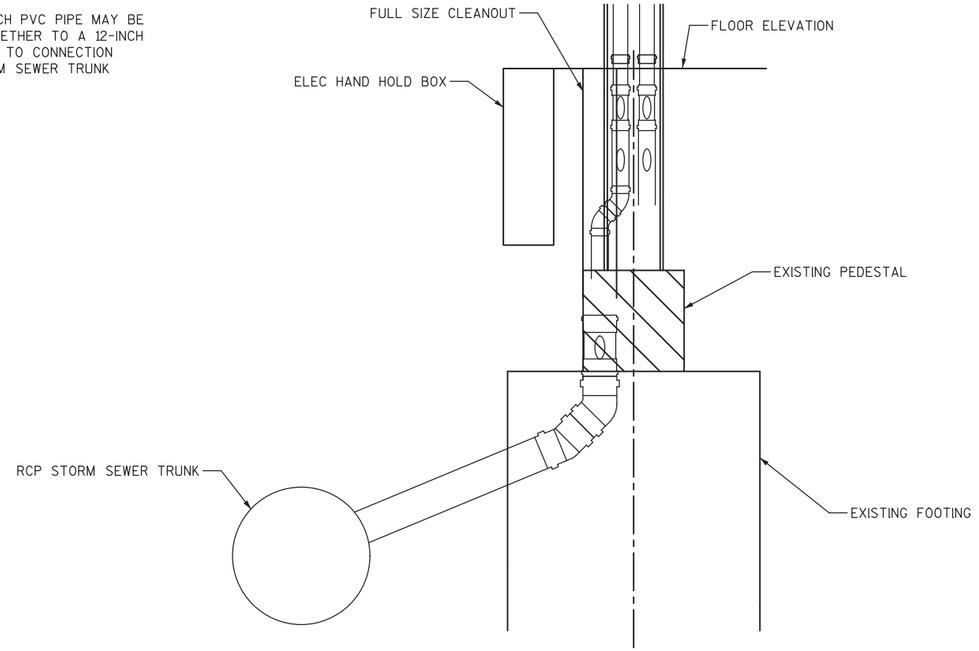
STORM SEWER SPECIAL STRUCTURE

STA. 40+14, 57.6 RT



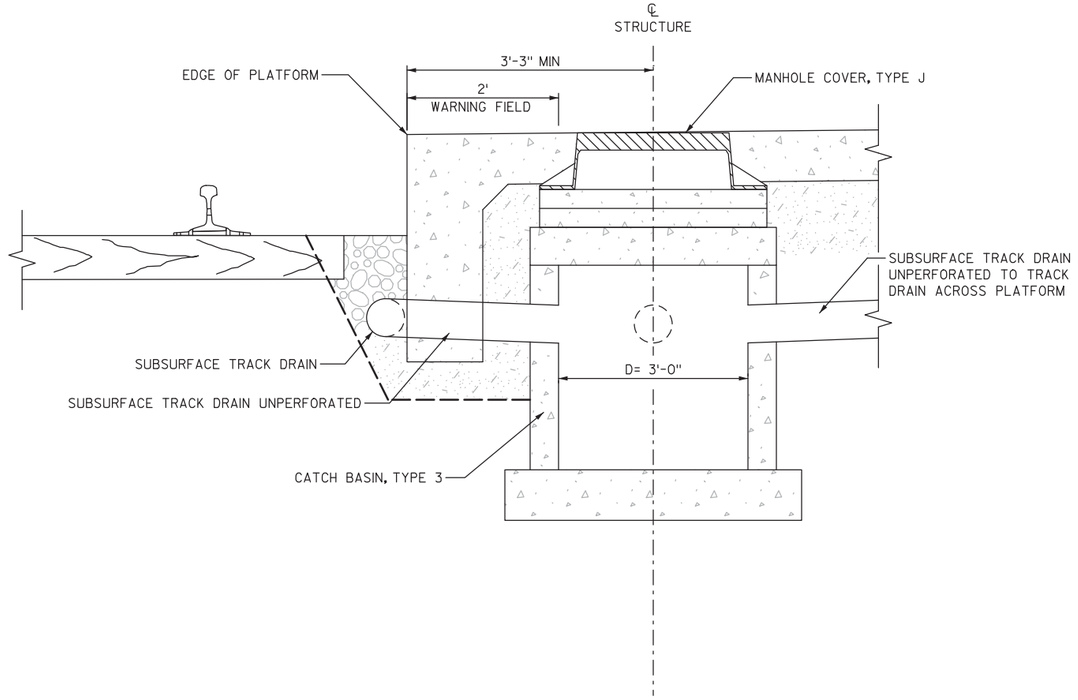
LOOKING NORTH/SOUTH

NOTE: TWO 8-INCH PVC PIPE MAY BE CONNECTED TOGETHER TO A 12-INCH PVC PIPE PRIOR TO CONNECTION INTO RCP STORM SEWER TRUNK

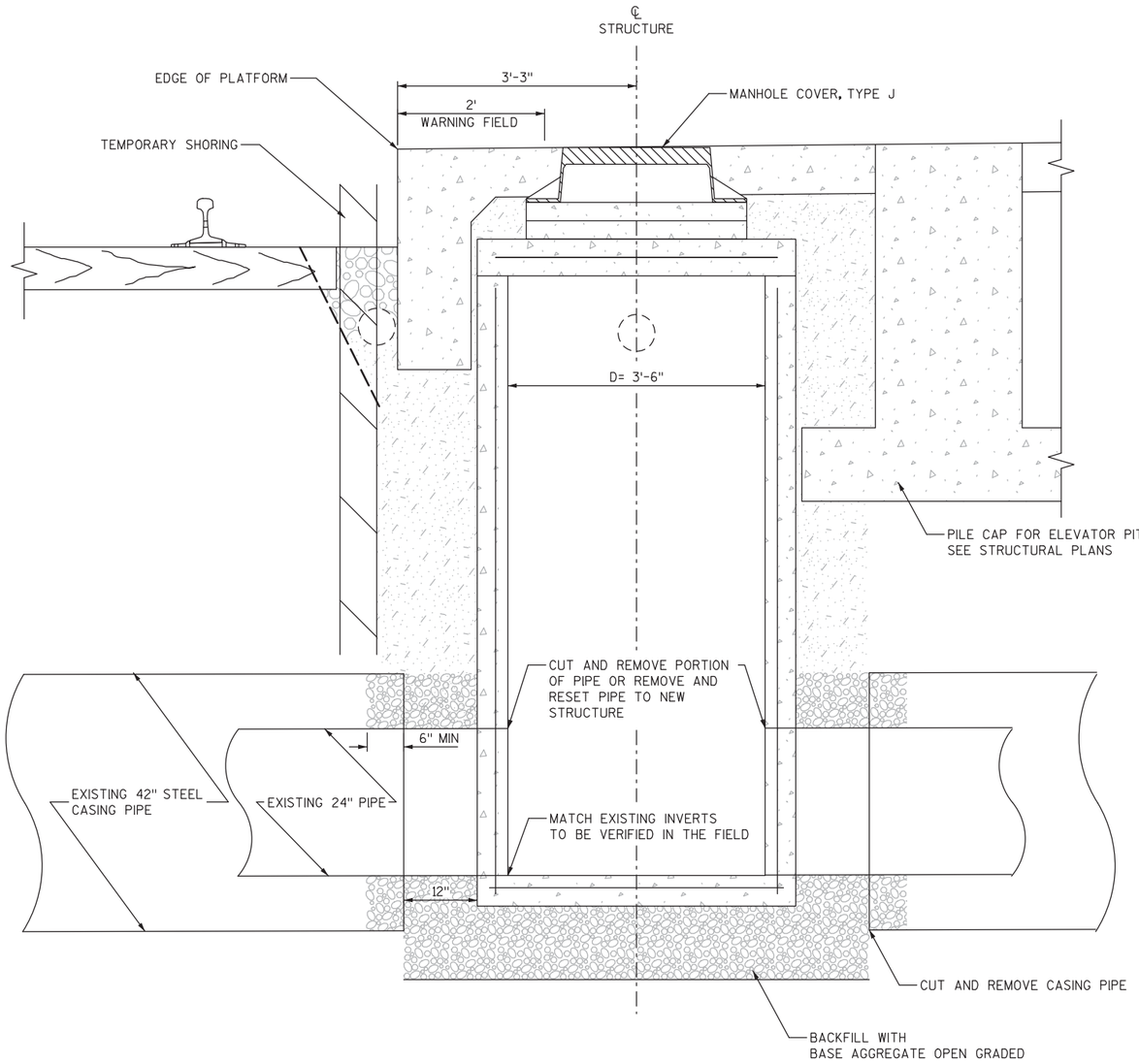


LOOKING EAST/WEST

PVC DOWNSPOUT OUTFALL CONNECTION (TYP)

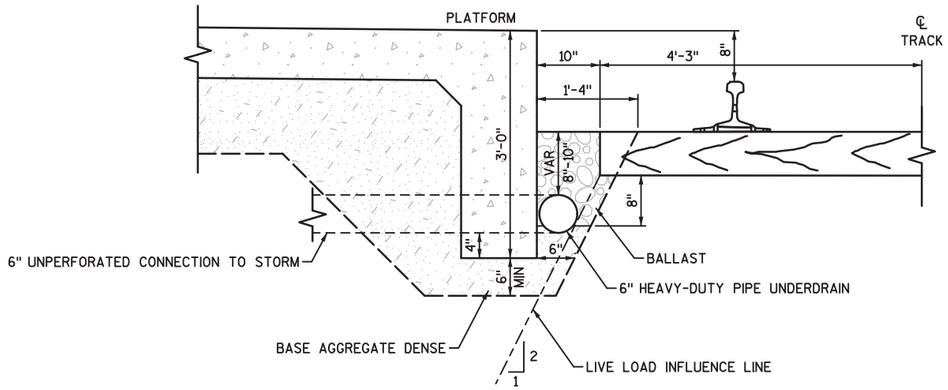


SUBSURFACE TRACK DRAIN TIE TO CATCH BASIN

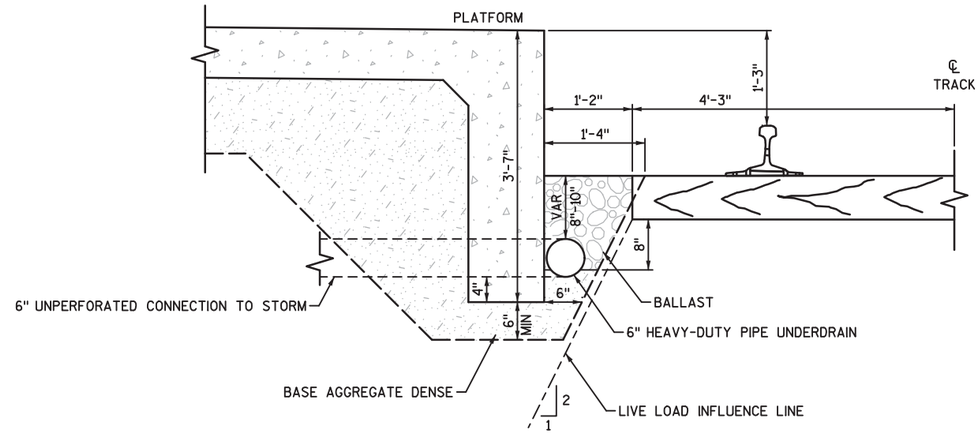


NOTES:
1. STRUCTURE TO BE INSTALLED WHILE ADJACENT TRACK IS OUT OF SERVICE
2. DETAILS AND LIMITS OF TEMPORARY SHORING TO BE DETERMINED BY THE CONTRACTOR

STORM SEWER TIE TO EXISTING TRUNK



SECTION AT 8" ABOVE T/R PLATFORMS

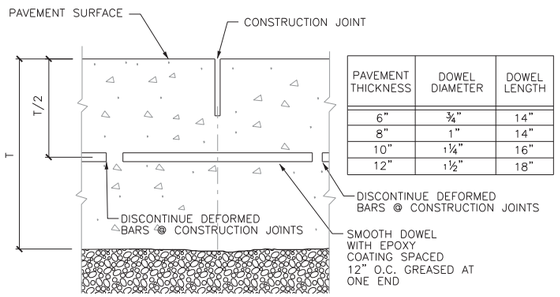


SECTION AT 15" ABOVE T/R PLATFORMS

NOTE:

UNDERCUTTING OF TRACK IS ONLY ALLOWED WHEN THE TRACK IS OUT OF SERVICE AND SHALL BE KEPT TO A MINIMUM WHERE EVER POSSIBLE. IF THERE IS POTENTIAL FOR EXCESSIVE SETTLEMENT OF THE TIES SHORING SHALL BE USED TO PROTECT THE RAIL GRADE AND AS DETERMINED BY THE ENGINEER. IF THE TRACK WILL BE PLACED BACK IN SERVICE BEFORE THE UNDERDRAIN IS COMPLETE AND BACKFILLED, THEN SHORING CAPABLE OF SUPPORTING E-80 WILL BE INSTALLED. THIS APPLIES ONLY IN AREAS WHERE THE RAIL WILL REMAIN IN PLACE THROUGHOUT CONSTRUCTION.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SUBSURFACE TRACK DRAIN DETAIL	SHEET 14	E

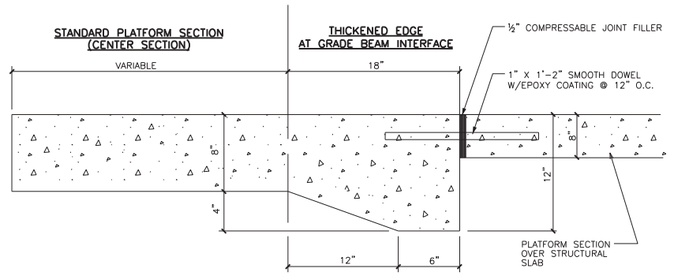


PAVEMENT THICKNESS	DOWEL DIAMETER	DOWEL LENGTH
6"	¾"	14"
8"	1"	14"
10"	1¼"	16"
12"	1½"	18"

NOTE: NO DOWEL REINFORCEMENT IS REQD. AT CONTROL JOINTS. CONTROL JOINTS SHALL BE CUT T/3

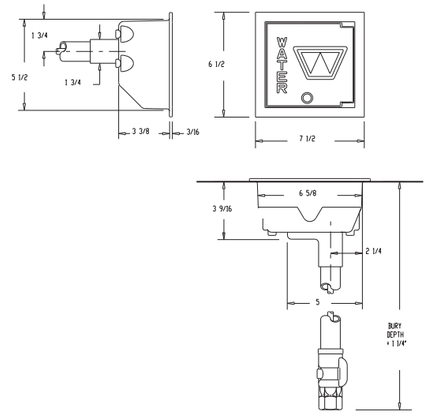
CONSTRUCTION JOINT

N.T.S.



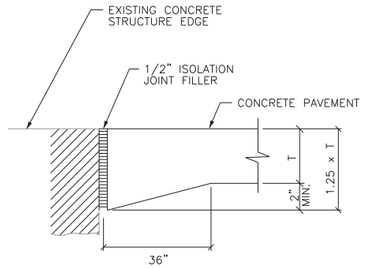
THICKENED EDGE AT GRADE BEAM

N.T.S.



NOTE: GROUND HYDRANT SHALL BE MANUFACTURED BY WOODFORD MODEL Y95 OR ENGINEER APPROVED EQUAL.

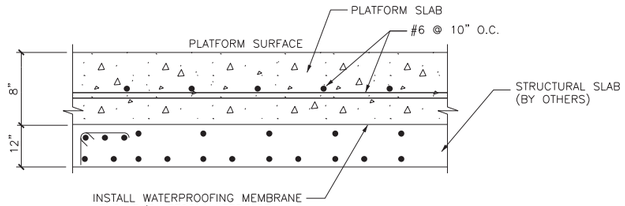
ENCASED GROUND HYDRANT



NOTE: THIS JOINT SHALL BE USED IN LOCATIONS WHERE PROPOSED CONC. PAVEMENT ABUTS CONCRETE BUILDINGS OR STRUCTURAL MEMBERS UNLESS OTHERWISE NOTED.

ISOLATION JOINT DETAIL

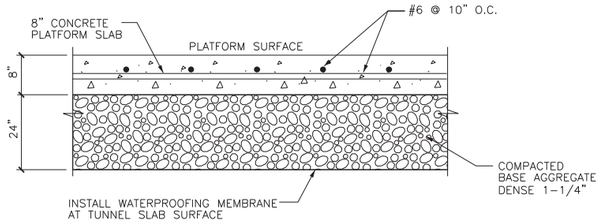
N.T.S.



NOTE: SEE ARCH. PLANS FOR JOINTING LAYOUT

SECTION OVER UTILITY ROOM STRUCTURAL SLAB

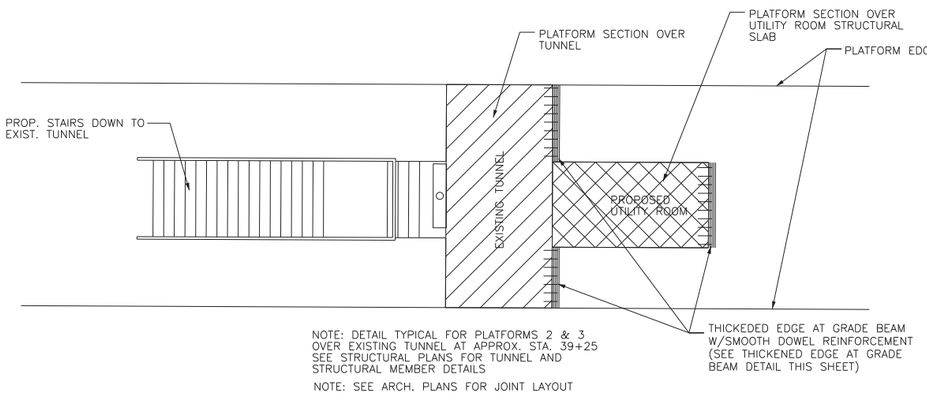
N.T.S.



NOTE: SEE ARCH. PLANS FOR JOINTING LAYOUT

SECTION OVER TUNNEL

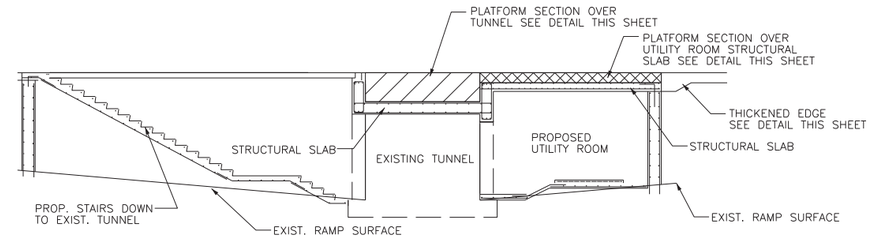
N.T.S.



NOTE: DETAIL TYPICAL FOR PLATFORMS 2 & 3 OVER EXISTING TUNNEL AT APPROX. STA. 39+25 SEE STRUCTURAL PLANS FOR TUNNEL AND STRUCTURAL MEMBER DETAILS

NOTE: SEE ARCH. PLANS FOR JOINT LAYOUT

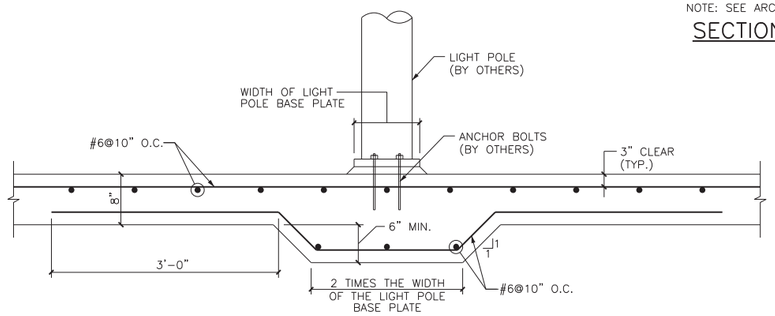
PLATFORM DETAIL OVER TUNNEL (PLAN VIEW)



NOTE: DETAIL TYPICAL FOR PLATFORMS 2 & 3 OVER EXISTING TUNNEL AT APPROX. STA. 39+25 SEE STRUCTURAL PLANS FOR TUNNEL AND STRUCTURAL MEMBER DETAILS

NOTE: SEE ARCH. PLANS FOR JOINT LAYOUT

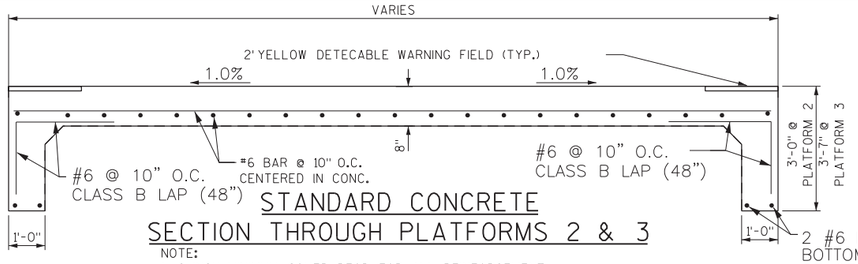
PLATFORM DETAIL OVER TUNNEL (SECTION VIEW)



NOTE: ANCHOR BOLTS FOR LIGHT POLE BY OTHERS. GENERAL CONTRACTOR TO COORDINATE DEPTH OF ANCHOR BOLTS FROM ELECTICAL CONTRACTOR WITH CONCRETE CONTRACTOR.

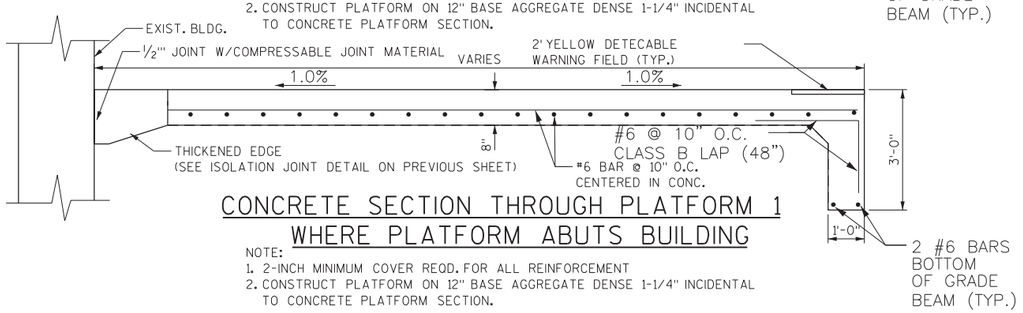
LIGHT POLE BASE DETAIL

N.T.S.



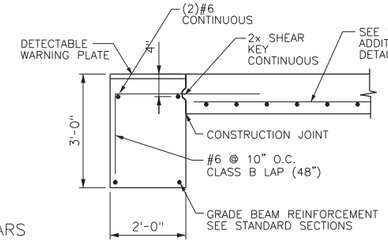
STANDARD CONCRETE SECTION THROUGH PLATFORMS 2 & 3

NOTE:
1. 2-INCH MINIMUM COVER REQD. FOR ALL REINFORCEMENT
2. CONSTRUCT PLATFORM ON 12" BASE AGGREGATE DENSE 1-1/4" INCIDENTAL TO CONCRETE PLATFORM SECTION.



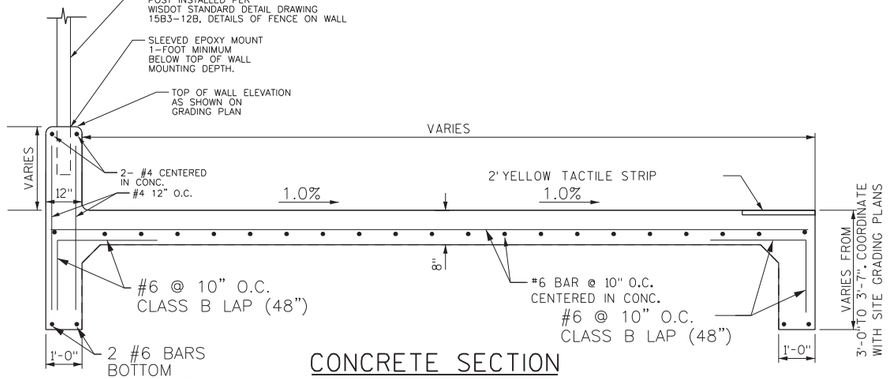
CONCRETE SECTION THROUGH PLATFORM 1 WHERE PLATFORM ABUTS BUILDING

NOTE:
1. 2-INCH MINIMUM COVER REQD. FOR ALL REINFORCEMENT
2. CONSTRUCT PLATFORM ON 12" BASE AGGREGATE DENSE 1-1/4" INCIDENTAL TO CONCRETE PLATFORM SECTION.



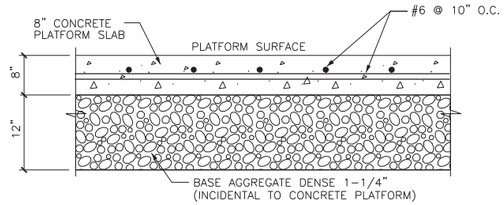
PLATFORM 2 CONSTRUCTION JOINT AT GRADE BEAM

N.T.S.



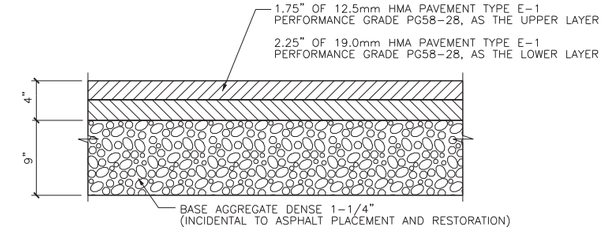
CONCRETE SECTION THROUGH PLATFORM 1 WITH WALL

NOTE:
1. 2-INCH MINIMUM COVER REQD. FOR ALL REINFORCEMENT
2. CONSTRUCT PLATFORM ON 12" BASE AGGREGATE DENSE 1-1/4" INCIDENTAL TO CONCRETE PLATFORM SECTION.
3. CONSTRUCT GATE IN ACCORDANCE WITH SDD 15B3-12A



STANDARD AGGREGATE BASE DETAIL

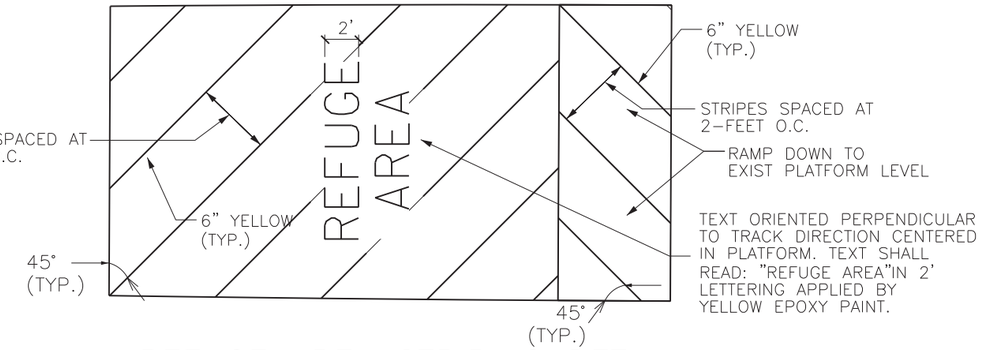
N.T.S.



ASPHALT PLACEMENT AND RESTORATION SECTION

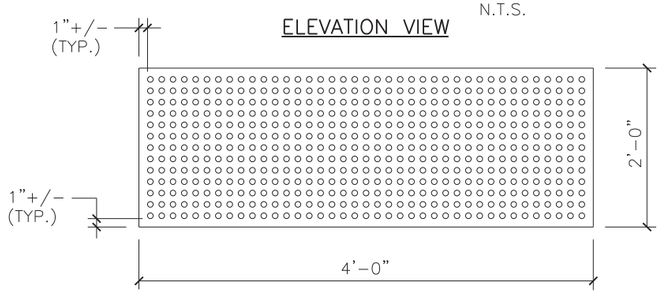
(NORTH OF WALL & BETWEEN RAILROAD TRACKS)

N.T.S.



REFUGE AREA STRIPING DETAIL

N.T.S.

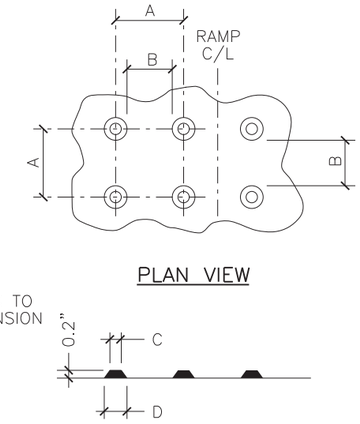


DETECTABLE WARNING FIELD (PLAN VIEW)

SUPPLIED W/YELLOW EPOXY PAINT

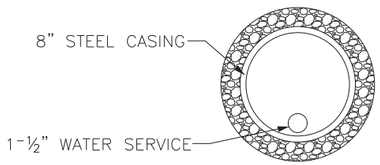
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.09"	1.4"

* THIS DIMENSION IS 50% TO 65% OF THE "D" DIMENSION



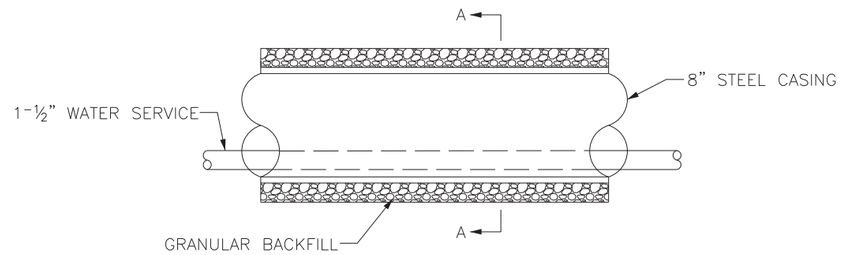
5

TRUNCATED DOMES DETECTABLE WARNING PLATE DETAIL



SECTION A-A

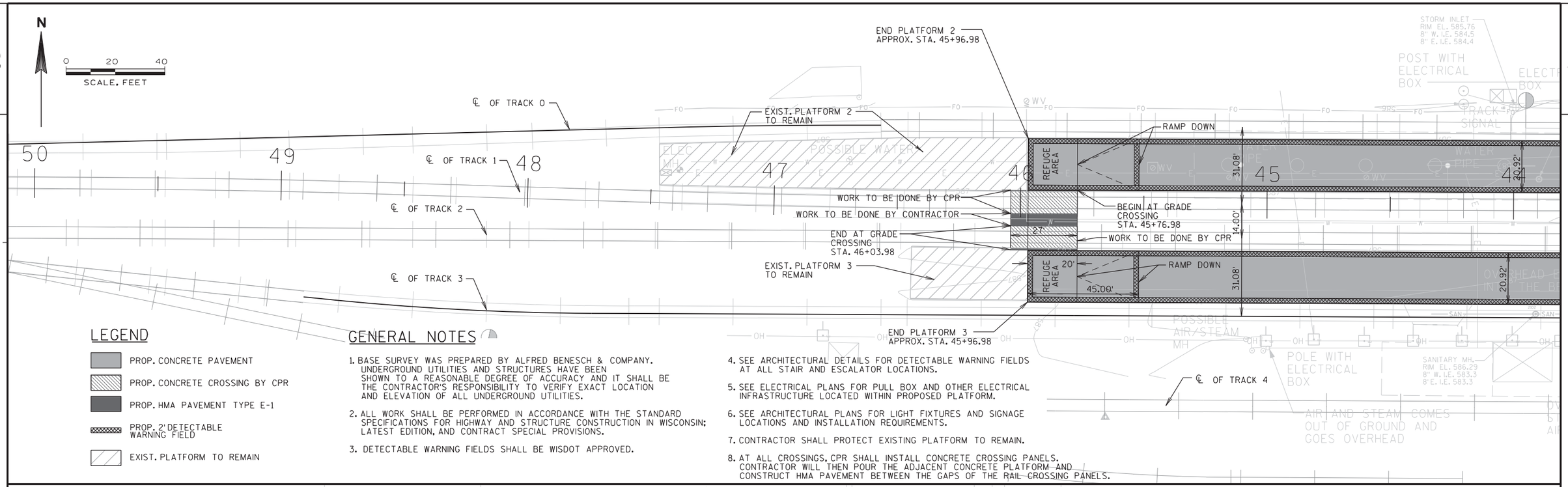
N.T.S.



STEEL CASING AROUND PROPOSED WATER SERVICE

N.T.S.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE DETAILS	SHEET 16	E

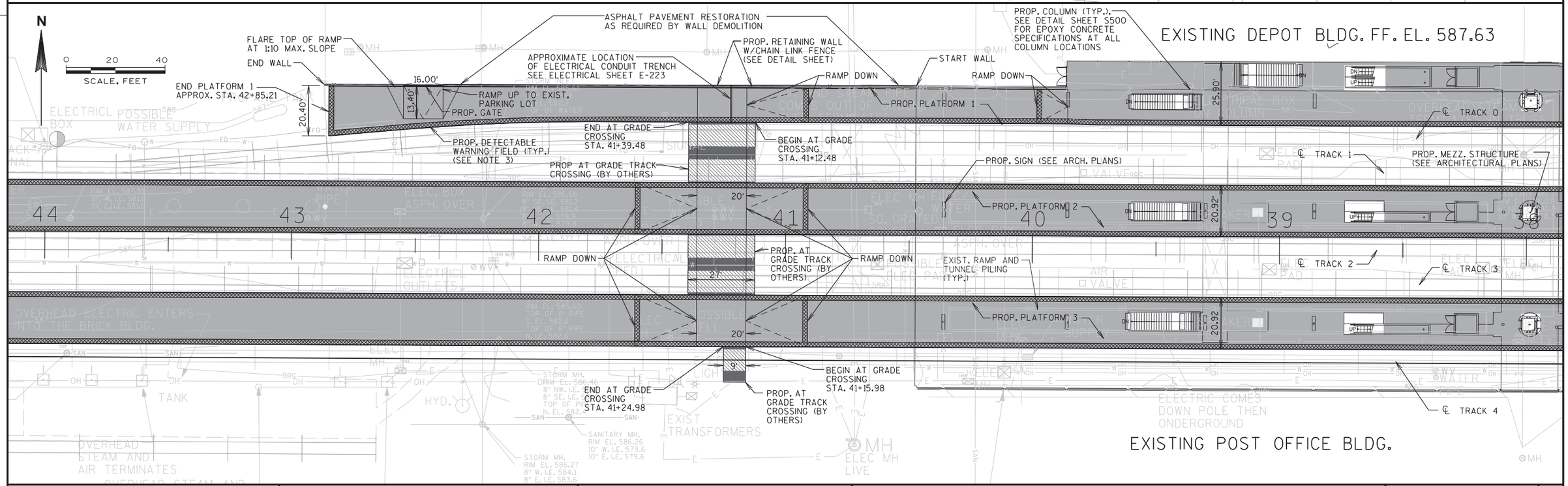


LEGEND

- PROP. CONCRETE PAVEMENT
- PROP. CONCRETE CROSSING BY CPR
- PROP. HMA PAVEMENT TYPE E-1
- PROP. 2' DETECTABLE WARNING FIELD
- EXIST. PLATFORM TO REMAIN

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.
3. DETECTABLE WARNING FIELDS SHALL BE WISDOT APPROVED.
4. SEE ARCHITECTURAL DETAILS FOR DETECTABLE WARNING FIELDS AT ALL STAIR AND ESCALATOR LOCATIONS.
5. SEE ELECTRICAL PLANS FOR PULL BOX AND OTHER ELECTRICAL INFRASTRUCTURE LOCATED WITHIN PROPOSED PLATFORM.
6. SEE ARCHITECTURAL PLANS FOR LIGHT FIXTURES AND SIGNAGE LOCATIONS AND INSTALLATION REQUIREMENTS.
7. CONTRACTOR SHALL PROTECT EXISTING PLATFORM TO REMAIN.
8. AT ALL CROSSINGS, CPR SHALL INSTALL CONCRETE CROSSING PANELS. CONTRACTOR WILL THEN POUR THE ADJACENT CONCRETE PLATFORM AND CONSTRUCT HMA PAVEMENT BETWEEN THE GAPS OF THE RAIL CROSSING PANELS.



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE DEVELOPMENT PLAN	SHEET 17	E

EXISTING DEPOT
BLDG. FF. EL. 587.63

EXIST. POST OFFICE BLDG.

PROP. COLUMN (TYP.). SEE DETAIL SHEET S500 FOR EPOXY CONCRETE SPECIFICATIONS AT ALL COLUMN LOCATIONS

RAMP DOWN

PROP. DETECTABLE WARNING FIELD (TYP.) (SEE NOTE 3)

PROP. PLATFORM 1 13.92'

PROP. MEZZ. STRUCTURE (SEE ARCHTECTURAL PLANS)

℄ TRACK 1

℄ TRACK 0

BEGIN AT GRADE CROSSING STA. 32+94.15

END AT GRADE CROSSING STA. 33+14.15

PROP. AT GRADE TRACK CROSSING (BY OTHERS)

RAMP DOWN

RAMP DOWN

BEGIN AT CROSSING STA. 32+87.15

WORK TO BE DONE BY CPR

WORK TO BE DONE BY CONTRACTOR

WORK TO BE DONE BY CPR

BEGIN PLAFORM 2 APPROX. STA. 32+94.15

PROP. PLATFORM 2 20.92'

38 37 36 35 34 33 32

20'

℄ TRACK 2

PROP. AT GRADE TRACK CROSSING (BY OTHERS)

EXIST. PLATFORM TO REMAIN

℄ TRACK 3

RAMP DOWN

PROP. PLATFORM 3 20.17'

20'

BEGIN PLAFORM 3 APPROX. STA. 32+94.15

℄ TRACK 4

EXIST. PILING (TYP.)

EXIST. POST OFFICE BLDG.

N

0 20 40

SCALE. FEET

REFUGE AREA

RAMP DOWN

BEGIN PLATFORM 1 APPROX. STA. 31+13.15

EXIST. PLATFORM TO REMAIN

32 31 30 29 28 27 26

ELECTRICAL BUNGALOW

TANK "GAS"

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.
3. DETECTABLE WARNING FIELDS SHALL BE WISDOT APPROVED.
4. SEE ARCHITECTURAL PLANS FOR DETECTABLE WARNING FIELDS AT ALL STAIR AND ESCALATOR LOCATIONS.
5. SEE ELECTRICAL PLANS FOR PULL BOXES AND OTHER ELECTRICAL INFRASTRUCTURE LOCATED WITHIN PROPOSED PLATFORM.
6. SEE ARCHITECTURAL PLANS FOR LIGHT FIXTURES AND SIGNAGE LOCATIONS AND INSTALLATION REQUIREMENTS.
7. CONTRACTOR SHALL PROTECT EXISTING PLATFORM TO REMAIN.
8. AT ALL CROSSINGS, CPR SHALL INSTALL CONCRETE CROSSING PANELS. CONTRACTOR WILL THEN POUR THE ADJACENT CONCRETE PLATFORM AND CONSTRUCT HMA PAVEMENT BETWEEN THE GAPS OF THE RAIL CROSSING PANELS.

N

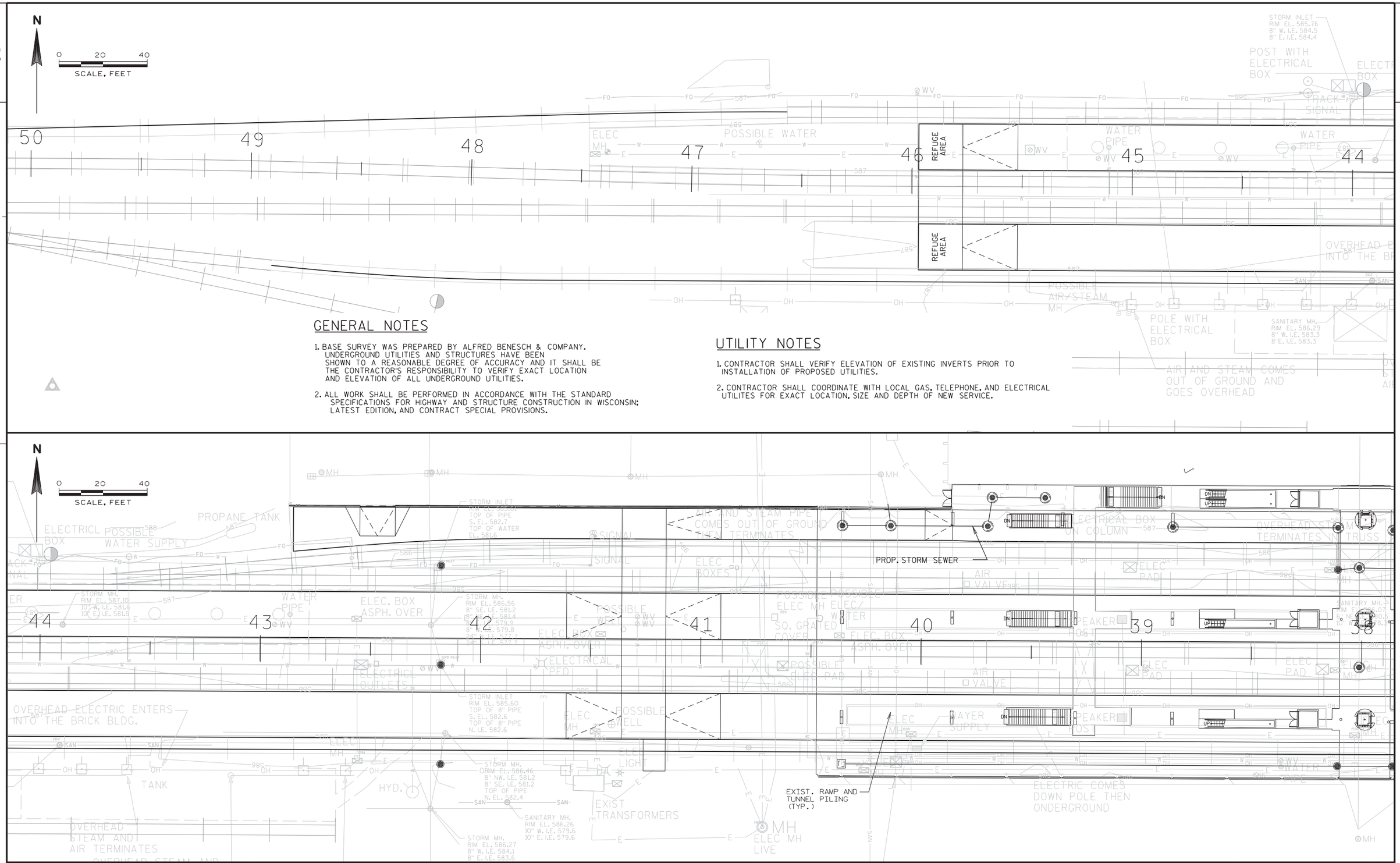
0 20 40

SCALE. FEET

LEGEND

- PROP. CONCRETE PAVEMENT
- PROP. CONCRETE CROSSING BY CPR
- PROP. HMA PAVEMENT TYPE E-1
- PROP. 2' DETECTABLE WARNING FIELD
- EXIST. PLATFORM TO REMAIN

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE DEVELOPMENT PLAN	SHEET 18	E



GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.

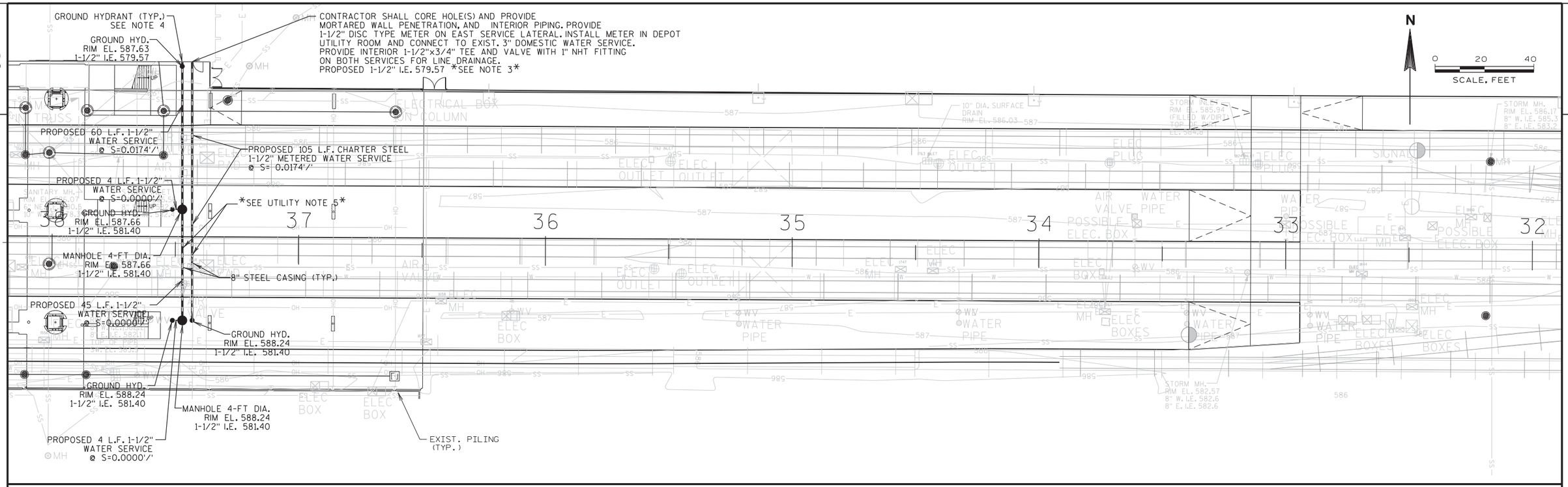
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.

UTILITY NOTES

1. CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO INSTALLATION OF PROPOSED UTILITIES.

2. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS, TELEPHONE, AND ELECTRICAL UTILITES FOR EXACT LOCATION, SIZE AND DEPTH OF NEW SERVICE.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE UTILITY PLAN	SHEET 19	E



UTILITY NOTES

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2. CONTRACTOR SHALL COORDINATE WITH LOCAL GAS, TELEPHONE, AND ELECTRICAL UTILITIES FOR EXACT LOCATION, SIZE AND DEPTH OF NEW SERVICE.
3. INTERIOR 3" WATER SERVICE LOCATED APPROXIMATELY 5 TO 6 FEET FROM EXTERIOR MASONRY WALL IN LOCATION OF WALL PENETRATION SHOWN ON PLANS.
4. GROUND HYDRANT SHALL BE NON-FREEZE TYPE WITH A 6-FOOT BURY DEPTH MANUFACTURED BY WOODFORD, MODEL Y95 OR ENGINEER APPROVED EQUAL.
5. WATER SERVICES SHALL BE INSTALLED BY TRENCHLESS CONSTRUCTION AND SHALL NOT DISTURB EXISTING TRACKS TO REMAIN. SEE SPECIAL PROVISIONS.

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
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PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE UTILITY PLAN	SHEET 20	E

NOTES:

HIGHER PA SYSTEMS

LOWER PA SYSTEM TO REMAIN

N

EXISTING DEPOT BUILDING

EXISTING POST OFFICE BUILDING

ABANDONED ELEC.

EXISTING COLUMNS WITH SCUPPER SYSTEM (TYP.)

STEAM; DANGLING ITEMS & ABANDON PIPES (POSSIBLE WATER OR GAS)

PIPES RUN INTO 2ND FLOOR OF DEPOT BUILDING (EST. PIPE SIZES: 3" & 1½" PIPES)

RAILING LIMITS

PA SYSTEM AND ABANDONED ELEC ON COLUMN

PA SYSTEM ON COLUMN

PA SYSTEM ON COLUMN

ABANDONED 1" PIPE (POSSIBLE GAS/WATER)

PA SYSTEM & SIGN ON COLUMN

GAS VENT CONDUIT PIPES ON WALL

ACTIVE PA SYSTEM AND ELEC ON COLUMN

PA SYSTEM AND ELEC CABLE ON COLUMN

SCUPPER SYSTEM (TYP)

STEAM PIPE

A

ELECTRICAL CONDUIT

℄ FINISHED TRACK 0

℄ FINISHED MAIN NO.1

3" ELECTRICAL CONDUIT & MULTIPLE DANGLING

PLATFORM 2

ELECTRICAL CONDUIT FOR LIGHTING

℄ FINISHED MAIN NO.2

℄ FINISHED TRACK 3

PULL BOX ON TRUSS

3" ELEC. CONDUIT

PLATFORM 3

PHONE SERVICE ON COLUMN

TWO ADDITIONAL CONDUIT LINES & TWO OR MORE DANGLING RUN EAST/WEST (ONE IS PROBABLY PA SYSTEM)

4" ELEC. CONDUIT

℄ FINISHED TRACK 4

STEAM PIPE ON COLUMN

C

ELECTRICAL CONDUIT

POSSIBLE ELECTRIC FROM GROUND

480V TRANSFORMER BOX

PRIVATE 1" CONDUIT ENDS; PHONE SERVICE

PA SYSTEM ON COLUMN

X16 X15 X14 X13 X12 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1

LOAD CENTER ON TRUSS

ELECTRICAL CONDUIT ON COLUMN

TELEPHONE AND POWER SERVICE TO PRIVATE CARS

TUNNEL VENTS ON COLUMN

ABANDON SOUTH WALL DRAIN PIPE

OVERHEAD STEAM PIPE

STEAM PIPE ON COLUMN

CABLE BOX & EAST/WEST CONDUIT RUN ON TRUSS

ELECTRICAL PIPE ON COLUMN

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	EXISTING OVERHEAD UTILITIES	SHEET 21	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Sheets\20038_Utility_Overhead.dgn PLOT DATE : 5/31/2013 PLOT BY : bweigand PLOT NAME : PLOT SCALE : 1:32

WISDOT/CADDS SHEET 42

2

N

℄ FINISHED TRACK 0

℄ FINISHED MAIN NO.1

SUBSURFACE TRACK DRAIN, 6"

SUBSURFACE TRACK DRAIN UNPERFORATED

PLATFORM 1

SUBSURFACE TRACK DRAIN UNPERFORATED

FLOW

REMOVE STORM SEWER TO LIMITS OF PLATFORM REPLACEMENT

46 45 44

43+90.00, 10.50 A201
CATCH BASIN 3-J
RIM EL. 587.90

43

PLATFORM 2

42+14.00, 11.25 A203
CATCH BASIN 3-J
RIM EL. 587.71

42 41

SUBSURFACE TRACK DRAIN UNPERFORATED

℄ FINISHED MAIN NO.2

REMOVE STORM SEWER TO LIMITS OF PLATFORM REPLACEMENT

℄ FINISHED TRACK 3

℄ FINISHED TRACK 4

43+90.00, -34.83 A202
CATCH BASIN 3-J
RIM EL. 588.48

ABANDONING WELL

PLATFORM 3

42+15.50, -36.50 A204
CATCH BASIN 3-J
RIM EL. 588.28

ABANDONING WELL

SUBSURFACE TRACK DRAIN UNPERFORATED

℄ EXISTING TRACK 4

SUBSURFACE TRACK DRAIN, 6"

SUBSURFACE TRACK DRAIN UNPERFORATED

REMOVE METAL CASTING
INSTALL HALF 8" PVC PIPE OVER EXISTING DRAIN PIPE
BACKFILL CONCRETE STRUCTURE WITH BACKFILL GRANULAR

SUBSURFACE TRACK DRAIN, 6"

CLEAN EXISTING PIPES & STRUCTURES TO RIVER OUTFALL

REMOVE EXISTING DOWNSPOUT AND SCUPPER FLASH BRICK FACE AND CONNECT TO EXISTING STORM SEWER (SEE DETAIL)

EXISTING SYSTEM A RIVER OUTFALL

MATCHLINE STA. 40+80

0 20 40
SCALE, FEET

NOTES

1. PROVIDE INLET PROTECTION TYPE B DURING CONSTRUCTION.
2. STORM STRUCTURE FRAMES/GRATES IN THE PLATFORMS ARE TO MATCH THE CROSS SLOPE OF THE PLATFORMS.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	STORM SEWER	SHEET 22	E

2

N

A109 40+13.85, 57.62 STORM SEWER SPECIAL STRUCTURE

REMOVE DOWNSPOUT OUTFLOW PIPES

PVC ROOF DOWNSPOUT OUTFALL CONNECTION TO STORM SEWER FROM COLUMN (TYP)

8-INCH CONNECTION TO EXISTING 8-INCH

A102 39+68.00, 70.08 MANHOLE 6-J

39+43.98, 70.08 MANHOLE 6-J A101

REMOVE DOWNSPOUT OUTFLOW PIPES

EXISTING BLIND CONNECTION

RECONSTRUCT DEPOT SUMP CONNECTION TO DRAIN TO STORM SEWER

REMOVE STRUCTURE

ABANDON EXISTING DEPOT SUMP CONNECTION PIPE

STORM SEWER PIPE TO REMAIN

B102 38+10.96, 57.08 CATCH BASIN 6-J

38+85.96, 57.08 MANHOLE 6-J B101

37+55.00, 56.08 CATCH BASIN 6-J B209

STORM SEWER PIPE TO REMAIN

EX 102 ADJUST RIM (MATCH LONGITUDINAL SLOPE OF PLATFORM; SEE PLATFORM GRADING SHEETS)

POST OFFICE CANOPY

EX 101 (NO WORK)

℄ FINISHED TRACK 0

REMOVE DOWNSPOUT OUTFLOW PIPES

ABANDON EAST PIPE CONNECTION

36+60.96, 56.08 MANHOLE 6-J B201

℄ FINISHED MAIN NO.1

A105 40+35.98, 57.08 MANHOLE 6-J

FLOW

ABANDONING WELL

SUBSURFACE TRACK DRAIN, 6"

PLATFORM 1

FLOW

A103 39+70.00, 57.08 MANHOLE 6-J

FLOW

37+55.00, 38.08 INLET 1G-MS WITH 18" SUMP B219

B109 38+10.96, 38.08 INLET 1G-MS WITH 18" SUMP

FLOW

REBUILD MANHOLE EX 502

B701 38+80.00, 8.58 CATCH BASIN 3-J RIM EL. 587.51

SUBSURFACE TRACK DRAIN UNPERFORATED

37+85.96, 56.08 MANHOLE 6-J B207

WATER SERVICE (SEE SITE UTILITY PLAN)

FLOW

PLATFORM 2

℄ FINISHED MAIN NO.2

MATCHLINE STA. 40+80

40 39 38 37 36

MATCHLINE STA. 35+00

FLOW

FLOW

FLOW

B801 38+80.00, -36.83 CATCH BASIN 3-J RIM EL. 588.10

FLOW

RECONNECT TUNNEL SUMP TO STORM SEWER STRUCTURE (SEE PLUMBING PLANS)

SUBSURFACE TRACK DRAIN UNPERFORATED

EX 503 ADJUST RIM

38+01.20, 8.58 MH CIP 3.5-J B702

38+01.20, -36.83 MH CIP 3.5-J B802

ABANDONING WELL

FLOW

PLATFORM 3

FLOW

℄ FINISHED TRACK 3

FLOW

REMOVE STORM SEWER TO LIMITS OF TRACK REPLACEMENT

40+35.94, -51.75 INLET 1G-MS INB301

SUBSURFACE TRACK DRAIN, 6"

ABANDON EXISTING WALL PIPE

INB401 36+60.94, -51.75 INLET 1G-MS

℄ EXISTING TRACK 4

SUBSURFACE TRACK DRAIN, 6"

℄ FINISHED TRACK 4

ABANDONING WELL

SUBSURFACE TRACK DRAIN, 6"

B302 38+10.94, -51.75 INLET 1G-MS WITH 18" SUMP

37+85.94, -51.75 INLET 1G-MS WITH 18" SUMP B402

CONNECT USPS BUILDING SCUPPERS TO OUTFALL STORM SEWER

ABANDON EXISTING DOWNSPOUT CONNECTIONS ALONG BASE OF SOUTH WALL (TYP)

CLEAN EXISTING PIPES & STRUCTURES TO RIVER OUTFALL

EXISTING SYSTEM B RIVER OUTFALL

NOTES

1. PROVIDE INLET PROTECTION TYPE B DURING CONSTRUCTION.
2. B101, B701 & B801: CONNECT ESCALATOR SUMP PUMP TO STORM SEWER STRUCTURE (SEE PLUMBING PLANS).
3. EX502, B702 & B802: CONNECT ELEVATOR SUMP PUMP TO STORM SEWER STRUCTURE (SEE PLUMBING PLANS).
4. FOR B701 & B801 CONSTRUCTION, AND CONNECTIONS FROM UNDERDRAINS, SEE SUBSURFACE TRACK DRAIN TIE TO CATCH BASINS DETAIL.
5. FOR B702 & B802 CONSTRUCTION, SEE STORM SEWER TIE TO EXISTING TRUNK DETAIL.
6. STORM STRUCTURE FRAMES/GRATES IN THE PLATFORMS ARE TO MATCH THE CROSS SLOPE OF THE PLATFORMS.

0 20 40
SCALE, FEET

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	STORM SEWER	SHEET 23	E

2

N

POST OFFICE CANOPY

℄ FINISHED TRACK 0

℄ FINISHED MAIN NO.1

SUBSURFACE TRACK DRAIN, 6"

SUBSURFACE TRACK DRAIN, 6"

MATCHLINE STA. 40+80

℄ FINISHED MAIN NO.2

34

33

32

31

30

℄ EXISTING TRACK 4

℄ FINISHED TRACK 3

℄ FINISHED TRACK 4

SUBSURFACE TRACK DRAIN, 6"

CLEAN EXISTING PIPES
& STRUCTURES
TO RIVER OUTFALL

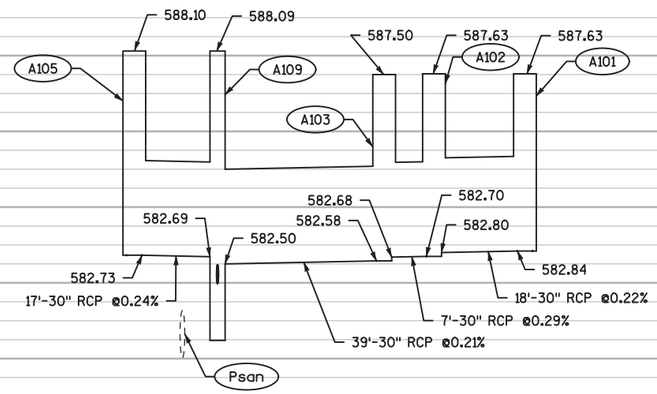
NOTE: PROVIDE INLET PROTECTION TYPE B DURING CONSTRUCTION.

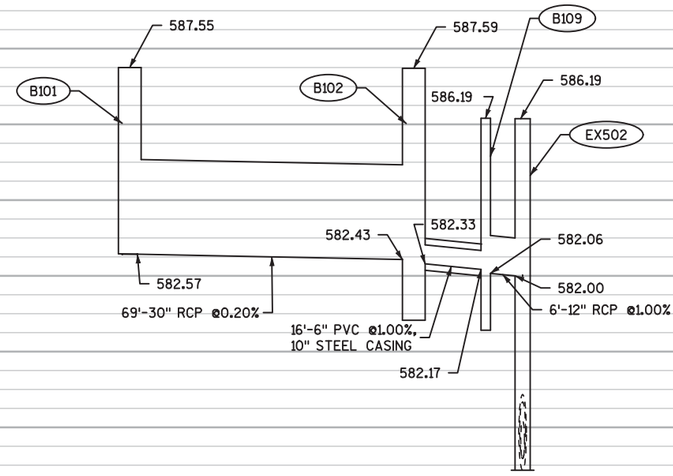
EXISTING
SYSTEM C
RIVER
OUTFALL

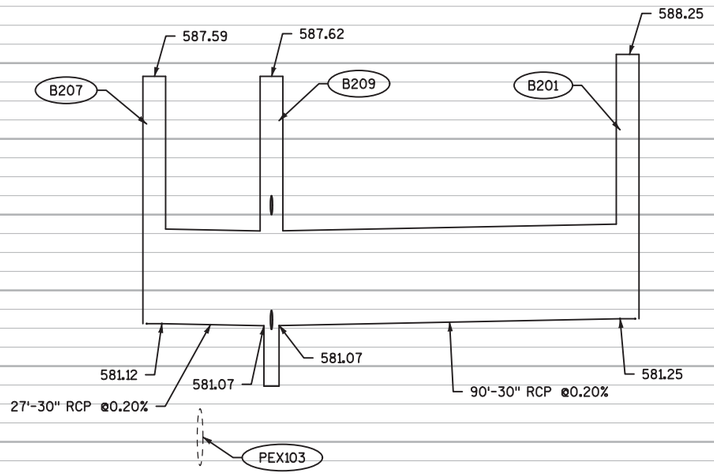
0 20 40
SCALE, FEET

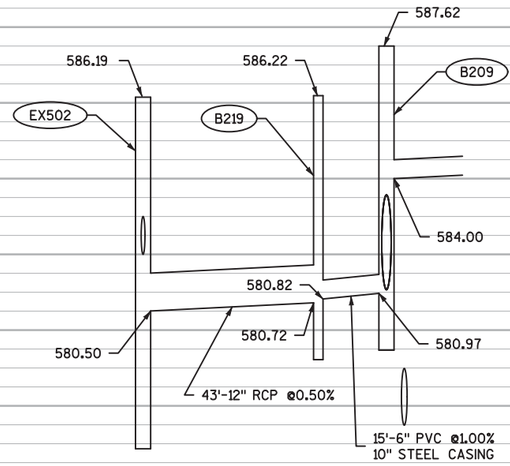
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	STORM SEWER	SHEET 24	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Sheets\20038_Storm_Sewer_03.dgn PLOT DATE : 2/25/2014 PLOT BY : wzippel PLOT NAME : PLOT SCALE : 1:40

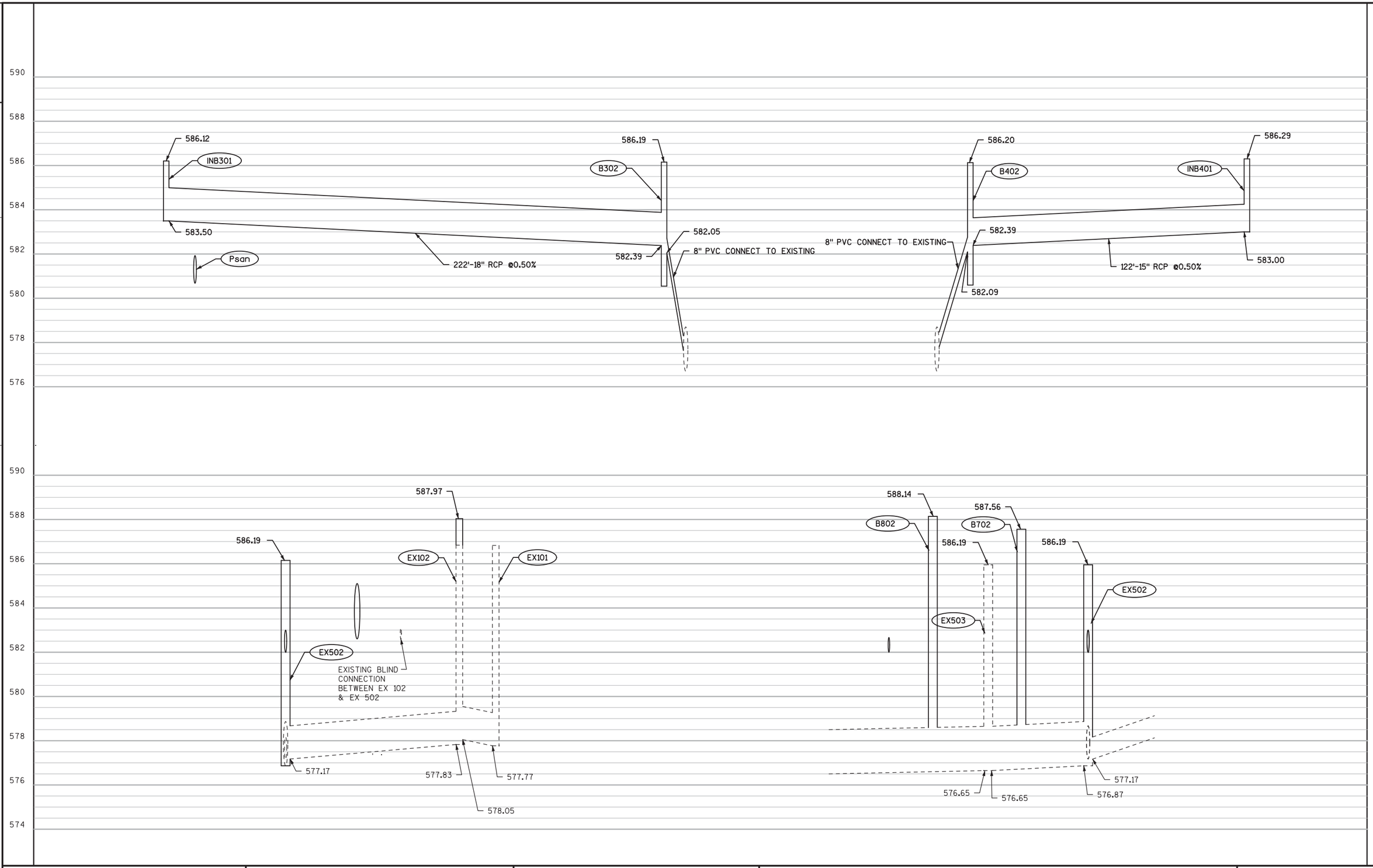








PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	STORM SEWER	SHEET 25	E



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	STORM SEWER	SHEET 26	E

MECHANICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

MECHANICAL ABBREVIATIONS

ADJ	-	ADJUSTABLE
AFF	-	ABOVE FINISHED FLOOR
AL	-	ALUMINUM
ALT	-	ALTERNATE
AP	-	ACCESS PANEL
APD	-	AIR PRESSURE DROP
APPROX	-	APPROXIMATE
ARCH	-	ARCHITECTURAL
AVG	-	AVERAGE
BAS	-	BUILDING AUTOMATION SYSTEM
BOB	-	BOTTOM OF BEAM
BOD	-	BOTTOM OF DUCT
BOP	-	BOTTOM OF PIPE
BTU	-	BRITISH THERMAL UNITS
BTUH	-	BRITISH THERMAL UNITS PER HOUR
CAV	-	CONSTANT AIR VOLUME
CFH	-	CUBIC FEET PER HOUR
CFM	-	CUBIC FEET PER MINUTE
CL	-	CENTERLINE
CLG	-	CEILING
COND	-	CONDENSATE
CONTR	-	CONTRACTOR
COP	-	COEFFICIENT OF PERFORMANCE
CU	-	COPPER
DAP	-	DUCT ACCESS PANEL
DB	-	DRY BULB
DDC	-	DIRECT DIGITAL CONTROL
DEG	-	DEGREES
DIA	-	DIAMETER
DIM	-	DIMENSION
DN	-	DOWN
DWG	-	DRAWING
DX	-	DIRECT EXPANSION
EA	-	EXHAUST AIR
EAT	-	ENTERING AIR TEMPERATURE
EC	-	ELECTRICAL CONTRACTOR
EDR	-	EQUIVALENT DIRECT RADIATION
EFF	-	EFFICIENCY
ELEC	-	ELECTRICAL
ELEV	-	ELEVATION
EM	-	EMERGENCY
ESP	-	EXTERNAL STATIC PRESSURE
ETR	-	EXISTING TO REMAIN
EWT	-	ENTERING WATER TEMPERATURE
EXH	-	EXHAUST
EXP	-	EXPANSION
EXIST	-	EXISTING
F	-	FAHRENHEIT
FC	-	FORWARD CURVED
FLA	-	FULL LOAD AMPS
FLR	-	FLOOR
FM	-	FACTORY MUTUAL
FPD	-	FLUID PRESSURE DROP
FPI	-	FINS PER INCH
FPM	-	FEET PER MINUTE
FPS	-	FEET PER SECOND
F&T	-	FLOAT AND THERMOSTATIC
FT	-	FEET
FTG	-	FOOTING
GA	-	GAUGE
GAL	-	GALLON
GALV	-	GALVANIZED
GBD	-	GRAVITY BACKDRAFT DAMPER
GC	-	GENERAL CONTRACTOR
GPM	-	GALLONS PER MINUTE
GPH	-	GALLONS PER HOUR
HP	-	HORSEPOWER
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
IN	-	INCHES
LAT	-	LEAVING AIR TEMPERATURE
LB/HR	-	POUNDS PER HOUR
LF	-	LINEAR FEET
LTG	-	LIGHTING
LWT	-	LEAVING WATER TEMPERATURE
MAX	-	MAXIMUM
MBH	-	THOUSANDS OF BTU PER HOUR
MC	-	MECHANICAL CONTRACTOR
MCA	-	MINIMUM CIRCUIT AMPACITY
MCC	-	MOTOR CONTROL CENTER
MEP	-	MECHANICAL, ELECTRICAL AND PLUMBING
MER	-	MECHANICAL EQUIPMENT ROOM
MEZZ	-	MEZZANINE
MFR	-	MANUFACTURER
MIN.	-	MINIMUM
MISC	-	MISCELLANEOUS
NA	-	NOT APPLICABLE
NC	-	NORMALLY CLOSED
NIC	-	NOT IN CONTRACT
NO	-	NORMALLY OPEN
NPS	-	NOMINAL PIPE SIZE
NPSH	-	NET POSITIVE SUCTION HEAD
NPT	-	NATIONAL PIPE THREAD
NR	-	NEAR
NTS	-	NOT TO SCALE
OA	-	OUTSIDE AIR
OC	-	ON CENTER
OED	-	OPEN END DUCT
OLP	-	OVERLOAD PROTECTION
OV	-	OUTLET VELOCITY
PC	-	PLUMBING CONTRACTOR
PCF	-	POUNDS PER CUBIC FOOT
PD	-	PRESSURE DROP
PH	-	PHASE
PLBG	-	PLUMBING
POC	-	POINT OF CONNECTION
PPH	-	POUNDS PER HOUR
PRV	-	PRESSURE RELIEF VALVE
PSF	-	POUNDS PER SQUARE FOOT
PSI	-	POUNDS PER SQUARE INCH
PSIA	-	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	-	POUNDS PER SQUARE INCH GAUGE
PVC	-	POLYVINYL CHLORIDE
RA	-	RETURN AIR
REQD	-	REQUIRED
RF	-	ROOF
RH	-	RELATIVE HUMIDITY
RPM	-	REVOLUTIONS PER MINUTE
SA	-	SUPPLY AIR
SCH	-	SCHEDULE
SHT	-	SHEET
SP	-	STATIC PRESSURE
SPEC	-	SPECIFICATION
SQ	-	SQUARE
S/S	-	STAINLESS STEEL
STD	-	STANDARD
STRUCT	-	STRUCTURAL
T&P	-	TEMPERATURE AND PRESSURE
TA	-	TRANSFER AIR
TBR	-	TO BE REMOVED
TC	-	TEMPERATURE CONTROL
TEMP	-	TEMPERATURE
TOB	-	TOP OF BEAM
TOD	-	TOP OF DUCT
TOP	-	TOP OF PIPE
TOS	-	TOP OF SLAB
TSP	-	TOTAL STATIC PRESSURE
T STAT	-	THERMOSTAT
TYP	-	TYPICAL
UC	-	UNDERCUT DOOR 1" (BY GENERAL CONTRACTOR)
UNO	-	UNLESS OTHERWISE NOTED
V	-	VOLTS
VA	-	VALVE
VAV	-	VARIABLE AIR VOLUME
VEL	-	VELOCITY
VP	-	VELOCITY PRESSURE
VTR	-	VENT THRU ROOF
W/	-	WITH
W/O	-	WITHOUT
WB	-	WET BULB
WC	-	WATER COLUMN
WG	-	WATER GAUGE
X	-	EXISTING

MECHANICAL EQUIPMENT ABBREVIATIONS

AC	-	AIR CONDITIONING UNIT/AIR COMPRESSOR
ACC	-	AIR COOLED CONDENSER
ACCU	-	AIR COOLED CONDENSING UNIT
ACU	-	AIR CONDITIONING UNIT
AHU	-	AIR HANDLING UNIT
AMD	-	AIR MIXING DEVICE
ARU	-	AIR ROTATION UNIT
AS	-	AIR SEPARATOR
AT	-	AIR TERMINAL DEVICE
B	-	BOILER
BBS	-	BOILER BLOWDOWN SEPARATOR
BC	-	BOOSTER COIL
BFS	-	BOILER FEEDWATER SYSTEM
C	-	CONVECTOR
CC	-	COOLING COIL
CH	-	CHILLER
CP	-	CONDENSATE PUMP
CRU	-	CONDENSATE RETURN UNIT
CT	-	COOLING TOWER
CUH	-	CABINET UNIT HEATER
CV	-	CONVECTOR
DC	-	DUST COLLECTOR
DH	-	DEHUMIDIFIER
EBB	-	ELECTRIC BASEBOARD
EF	-	EXHAUST FAN
EH	-	EXHAUST HOOD
EJ	-	EXPANSION JOINT
ET	-	EXPANSION TANK
EUH	-	ELECTRIC UNIT HEATER
F	-	FILTER
FCU	-	FAN COIL UNIT
FD	-	FLOOR DRAIN
FOP	-	FUEL OIL PUMP
FOT	-	FUEL OIL TANK
FTR	-	FIN TUBE RADIATION
GF	-	GAS FURNACE
GV	-	GRAVITY VENTILATOR
H	-	HUMIDIFIER
HC	-	HEATING COIL
HP	-	HEAT PUMP
HRC	-	HEAT RECOVERY COIL
HRD	-	HEAT RECLAIM DEVICE
HX	-	HEAT EXCHANGER
IAH	-	INTAKE AIR HOOD
IF	-	INLINE FAN
IFH	-	INFRARED HEATER
LP	-	LOUVERED PENTHOUSE
MAU	-	MAKE-UP AIR UNIT
MCC	-	MOTOR CONTROL CENTER
P	-	PUMP
RAHU	-	ROOFTOP AIR HANDLING UNIT
ROP	-	RADIANT CEILING PANEL
REF	-	ROOF EXHAUST FAN
RF	-	RETURN FAN
RH	-	RELIEF HOOD
RTU	-	ROOFTOP UNIT
RV	-	ROOF VENTILATOR
SA	-	SOUND ATTENUATOR
SF	-	SUPPLY FAN
T	-	TANK
TXV	-	THERMAL EXPANSION VALVE
UH	-	UNIT HEATER
UST	-	UNDERGROUND STORAGE TANK
UV	-	UNIT VENTILATOR
V	-	VALVE
VFD	-	VARIABLE FREQUENCY DRIVE
VP	-	VACUUM PUMP

DUCTWORK FITTINGS

SINGLE LINE DUCTWORK

DOUBLE LINE DUCTWORK

RECTANGULAR/ROUND BRANCH TAKE OFF (SA, RA, AND EA)

1/4 D BUT NOT NOT LESS 6"

1/4 W BUT NOT NOT LESS 6"

TEE (FOR LOW PRESSURE SUPPLY AIR DUCTWORK ONLY)

15° MAX. FOR DIVERGING TRANSITION, 25° MAX. FOR CONVERGING TRANSITION - ECCENTRIC

15° MAX. FOR DIVERGING TRANSITION, 25° MAX. FOR CONVERGING TRANSITION - CONCENTRIC

DUCT WITH FLOW DIRECTION ARROW

LINE CONTINUATION BREAK (RECTANGULAR, ROUND)

SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT UP

SUPPLY AIR (SA) OR OUTDOOR AIR (OA) DUCT DOWN

RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT UP

RETURN AIR (RA), RELIEF AIR OR TRANSFER AIR (TA) DUCT DOWN

EXHAUST AIR (EA) DUCT UP

EXHAUST AIR (EA) DUCT DOWN

DUCT RISE/DROP W/ 90° ELBOWS (SUPPLY RECTANGULAR DUCT SHOWN)

R=1.5W RADIUS ELBOW

EITHER RADIUS OR SQUARE ELBOW (REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS)

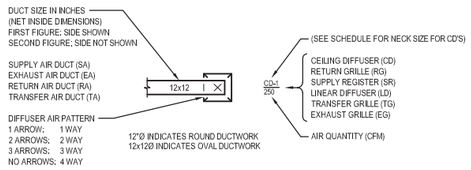
SQUARE ELBOW WITH TURNING VANES

DUCT RISE (R) OR DROP (D) W/ 30° ELBOWS (RECTANGULAR DUCTS)

DUCT CROSS OVER

THIS DUCT RUNS UNDERNEATH

DIFFUSER, GRILLE, AND REGISTER NOTATION



SUPPLY REGISTER OR GRILLE (VERTICAL MOUNT)

EXHAUST OR RETURN REGISTER OR GRILLE (VERTICAL MOUNT)

DAMPERS AND CONTROLS

MANUAL VOLUME DAMPER (VD)

FIRE DAMPER (FD)

SMOKE DAMPER (SD)

COMBINATION FIRE/SMOKE DAMPER (FD/SD)

BACKDRAFT DAMPER

SPACE THERMOSTAT

DUCTWORK SPECIALTIES

TEST HOLE

ACCESS DOOR (AD)

GENERAL SYMBOLS

DETAIL REFERENCE
TOP DESIGNATES DETAIL NUMBER
BOTTOM DESIGNATES SHEET NUMBER

SECTION REFERENCE
TOP DESIGNATES SECTION NUMBER
BOTTOM DESIGNATES SHEET NUMBER

ELEVATION SYMBOL

NEW PIPING, DUCTWORK OR EQUIPMENT

VAV-1 EQUIPMENT NAME AND NUMBER

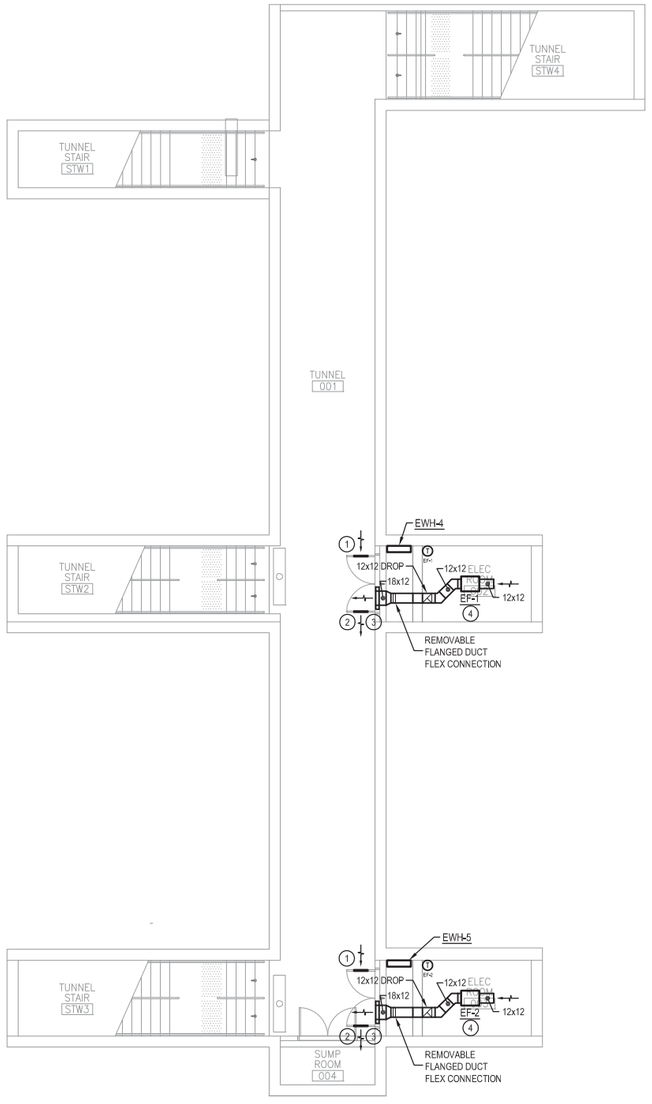
PLAN KEYED NOTE NUMBER

REVISION NUMBER

MECHANICAL SHEET INDEX

M-000	MECHANICAL SYMBOLS, ABBREVIATIONS AND SHEET INDEX
M-100	TUNNEL LEVEL - MECHANICAL PLAN
M-200	PLATFORM LEVEL - MECHANICAL PLAN
M-300	DEPOT BUILDING - PARTIAL MECHANICAL PLAN
M-500	MECHANICAL SCHEDULES

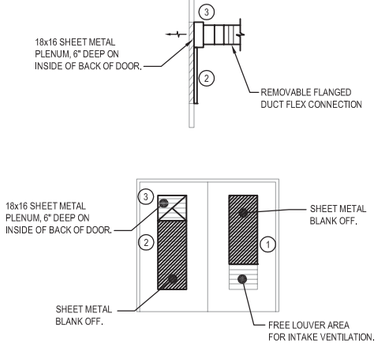
M-000



1 M-100 TUNNEL LEVEL – MECHANICAL PLAN
1/8"=1'-0"
0 4' 8'

KEYED NOTES:

1. PROVIDE SHEET METAL BLANK-OFF ON INSIDE OF LOUVERED DOOR. SHEET METAL BLANK-OFF TO BE APPROXIMATELY 18"x43.5". MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT DIMENSIONS OF DOOR LOUVER. BLANK-OFF TO BE ON UPPER PORTION OF DOOR WITH THE BOTTOM PORTION OPEN FOR INTAKE VENTILATION TO ROOM. SEAL BLANK-OFF AIR TIGHT TO DOOR.
2. PROVIDE SHEET METAL BLANK-OFF ON INSIDE OF LOUVERED DOOR. SHEET METAL BLANK-OFF TO BE APPROXIMATELY 18"x43.5". MECHANICAL CONTRACTOR TO FIELD VERIFY EXACT DIMENSIONS OF DOOR LOUVER. BLANK-OFF TO BE ON LOWER PORTION OF DOOR WITH THE TOP PORTION OPEN FOR EXHAUST VENTILATION TO ROOM. SEAL BLANK-OFF AIR TIGHT TO DOOR.
3. PROVIDE SHEET METAL PLENUM ON TOP PORTION OF DOOR LOUVER. PLENUM TO BE 18"x16", 6" DEEP. TRANSITION TO 12"x12" AND PROVIDE A DUCT FLEX CONNECTION WITH FLANGE TO THE 12"x12" EXHAUST DUCT. CONNECTION AT PLENUM BOX TO BE REMOVABLE IN THE EVENT THE 2ND DOOR NEEDS TO OPEN. FASTEN AND SEAL PLENUM BOX TO TOP PORTION OF DOOR LOUVER AIR TIGHT.
4. SUPPORT FAN FROM STRUCTURE AS SPECIFIED.



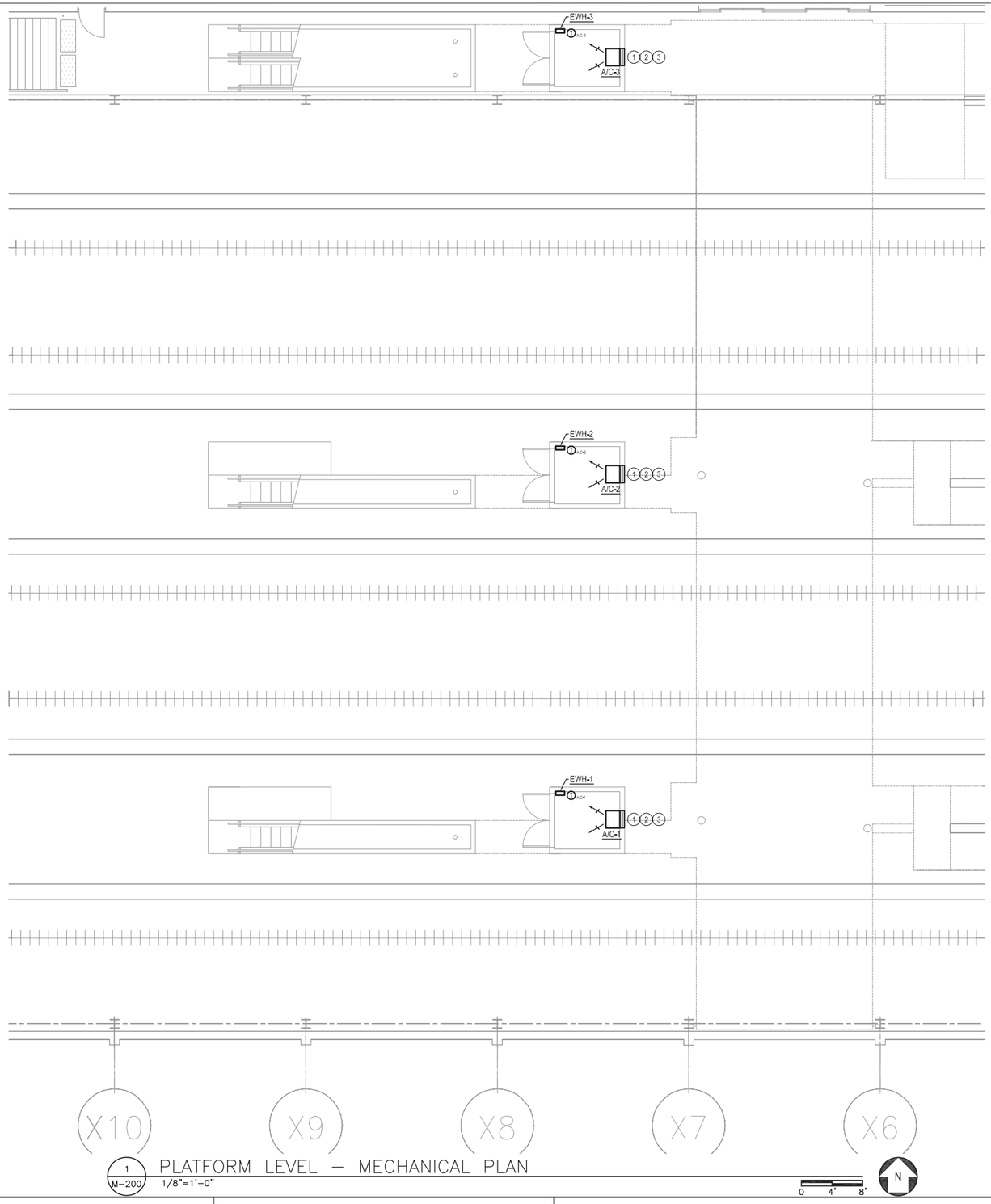
2 M-100 SECTIONS AT ELECTRICAL ROOM DOORS
1/4"=1'-0"
0 2' 4'

M-100

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN TUNNEL LEVEL – MECHANICAL PLAN	SHEET 28	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\HVAC\DGN\00\SHEETS\2010-0072-01 M100.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



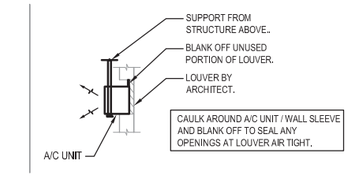
1 M-200 PLATFORM LEVEL – MECHANICAL PLAN
1/8"=1'-0"

0 4' 8'

N

KEYED NOTES:

1. SUPPORT A/C UNIT FROM STRUCTURE ABOVE AND THRU WALL SLEEVE.
2. EXTEND DRAIN LINE TO ESCALATOR SUMP PIT.
3. A/C UNIT TO BE INSTALLED IN WALL AND EXTENDED INTO ROOM. REFER TO 2/A410 FOR LOCATION IN WALL. UTILIZE 27-1/4"x21-3/4" WALL LOUVER PROVIDED BY ARCHITECT. BLANK-OFF PORTION OF LOUVER NOT REQUIRED FOR A/C UNIT. A/C UNIT TO BE INSTALLED FLUSH TO INSIDE OF LOUVER FACE.



2 M-200 SECTION AT A/C UNIT
1/4"=1'-0"

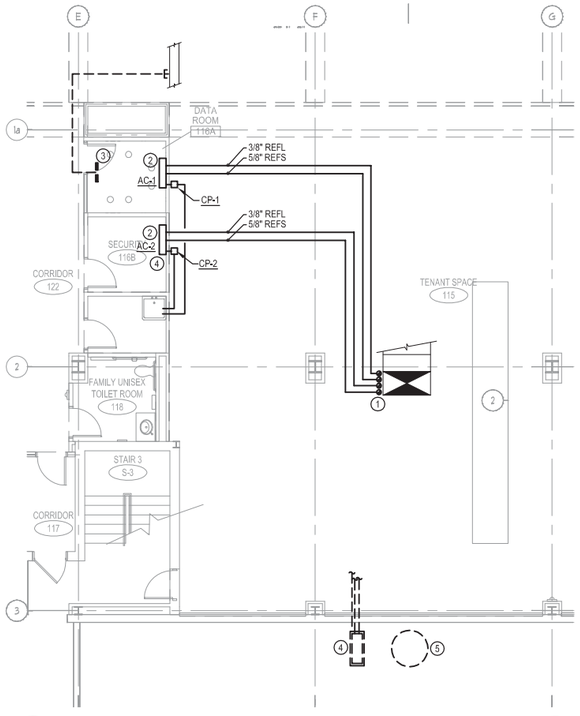
0 2' 4'

M-200

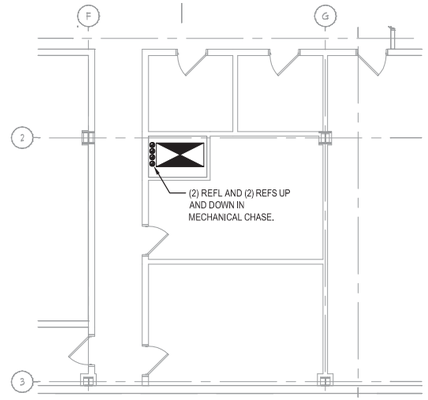
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PLATFORM LEVEL – MECHANICAL PLAN	SHEET 29 E

FILE NAME : L:\JOBS2010\20100072-01\CAD\HVAC\DGN\00\SHEETS\2010-0072-01 M200.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



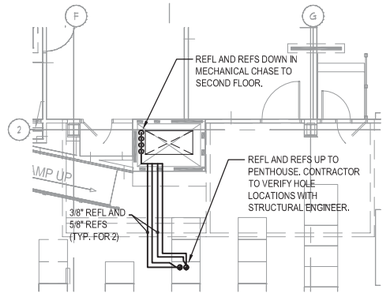
1 M-300 PARTIAL FIRST FLOOR HVAC PLAN
1/8"=1'-0"
0 4' 8'



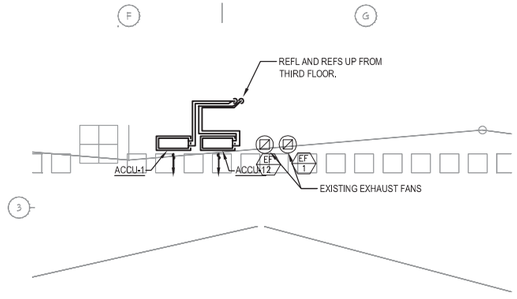
2 M-300 PARTIAL SECOND FLOOR HVAC PLAN
1/8"=1'-0"
0 4' 8'

KEYED NOTES:

1. ROUTE (2) NEW REFRIGERANT LINESETS UP THROUGH EXISTING MECHANICAL CHASE. FIREPROOF PENETRATIONS AS REQUIRED WITH FIRE RESISTANT CAULK.
2. MOUNT NEW DUCTLESS SPLIT SYSTEM INDOOR UNITS 8'-0" AFF. PROVIDE NEW COOLING COIL CONDENSATE PUMP AND ROUTE CONDENSATE TO JANITORS SINK.
3. DEMOLISH EXISTING DUCTWORK AND ASSOCIATED DIFFUSER BACK TO MAIN AND CAP.
4. REMOVE EXISTING DUCTLESS SPLIT SYSTEM AND ALL ASSOCIATED PIPING. TURN OVER EXISTING EQUIPMENT TO OWNER.
5. ABANDON EXISTING ROOF MOUNTED EXHAUST FAN IN PLACE.



3 M-300 PARTIAL THIRD FLOOR HVAC PLAN
1/8"=1'-0"
0 4' 8'



4 M-300 PARTIAL ROOF HVAC PLAN
1/8"=1'-0"
0 4' 8'

M-300

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN EXISTING DEPOT BUILDING – MECHANICAL PLAN	SHEET 30 E

FILE NAME : L:\JOBS2010\20100072-01\CAD\HVAC\DGN\00\SHEETS\2010-0072-01 M300.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44

HVAC MOTOR STARTER/CONTROL SCHEDULE

UNIT No.	MOTOR HP, UNIT KW, OR MCA	VOLTS / PH	STARTER: TYPE: INTEGRAL TO UNIT	TYPE: MANUAL	TYPE: MAGNETIC	TYPE: COMBINATION STARTER / DISCONNECT	TYPE: VFD	TYPE: REDUCED VOLTAGE	TYPE: TWO SPEED	LOCATION: NEAR UNIT	LOCATION: ON / IN UNIT	LOCATION: REMOTE	FURNISHED BY: EQUIPMENT MANUFACTURER	FURNISHED BY: MECHANICAL CONTRACTOR	FURNISHED BY: ELECTRICAL CONTRACTOR	ACCESSORIES: ON-OFF SWITCH	ACCESSORIES: HAND-OFF-AUTO SWITCH	ACCESSORIES: PILOT LIGHT	ACCESSORIES: PUSH BUTTON SWITCH	ACCESSORIES: PHASE LOSS PROTECTION	STARTER/ UNIT CONTROL: TEMP. CONTROL CONTRACTOR	STARTER/ UNIT CONTROL: MANUAL	STARTER/ UNIT CONTROL: INTEGRAL TO UNIT	STARTER/ UNIT CONTROL: INTERLOCK WITH	DISCONNECT: TYPE: FUSED	TYPE: NON FUSED	TYPE: WEATHER PROOF	TYPE: NOT REQUIRED	PROVIDED BY: EQUIPMENT MANUFACTURER	PROVIDED BY: MECHANICAL CONTRACTOR	PROVIDED BY: ELECTRICAL CONTRACTOR	UNIT ON EMERGENCY POWER	REMARKS
EF-1	1/4 HP	120 / 1		●						●				●			●	●				●				●							
EF-2	1/4 HP	120 / 1		●						●				●			●	●				●				●							
EWH-1	2 KW	208 / 1	●								●		●			●							●						●				
EWH-2	2 KW	208 / 1	●								●		●			●							●						●				
EWH-3	2 KW	208 / 1	●								●		●			●							●						●				
EWH-4	2 KW	208 / 1	●								●		●			●							●						●				
EWH-5	2 KW	208 / 1	●								●		●			●							●						●				
A/C-1	14.7 FLA	208 / 1	●								●		●			●							●						●				
A/C-2	14.7 FLA	208 / 1	●								●		●			●							●						●				
A/C-3	14.7 FLA	208 / 1	●								●		●			●							●						●				
AC-1	18 MCA	208 / 1			●						●		●										●				●			●			
ACCU-1	-	208 / 1			●						●		●										●				●			●			
AC-2	18 MCA	208 / 1			●						●		●										●				●			●			
ACCU-2	-	208 / 1			●						●		●										●				●			●			

PACKAGED THRU-WALL AIR CONDITIONING UNIT

UNIT NO.	SERVICE	TOTAL CFM	OUTSIDE AIR CFM	EXT. S.P. (IN. WC)	VOLTS / PHASE	UNIT FLA	COOLING COIL: EDB (°F)	EWB (°F)	TOT. MBH	SEN. MBH	AMB. TEMP. (°F)	COOLING WATTS	EER	HEATING: WATTS	HEATING: BTU/HR	MANUFACTURER	MODEL
A/C-1	MACHINE ROOM 103	300	-	-	208/1	14.7	-	-	9.2	9.2	-	958	4.6	2,450	9,100	FREDERICH	WE10C33
A/C-2	MACHINE ROOM 102	300	-	-	208/1	14.7	-	-	9.2	9.2	-	958	4.6	2,450	9,100	FREDERICH	WE10C33
A/C-3	MACHINE ROOM 101	300	-	-	208/1	14.7	-	-	9.2	9.2	-	958	4.6	2,450	9,100	FREDERICH	WE10C33

NOTES:
1. PROVIDE WITH FEDDERS B SLEEVE AND WITH BAFFLE KIT.
2. PROVIDE WITH 4' POWER CORD.
3. PROVIDE WITH OPTIONAL DRAIN KIT AND EXTEND DRAIN TO NEAREST FLOOR/HUB DRAIN IN ESCALATOR SUMP PIT.
4. SUPPORT A/C UNIT FROM STRUCTURE ABOVE AND WALL SLEEVE.

EXHAUST FAN SCHEDULE (EF)

UNIT NO.	SERVICE	CFM	TOTAL SP (IN. WC)	HIGH SPEED (RPM)	MAX. TIP SPEED (FPM)	DRIVE	MOTOR: HP	VOLTS	PH	SPD.	DAMPER TYPE	MANUFACTURER	MODEL	REMARKS
EF-1	ELECTRICAL ROOM 002	850	0.45	1,150	4,000	DIRECT	1/4	120	1	-	-	GREENHECK	SQ-120-B	1,2
EF-2	ELECTRICAL ROOM 003	850	0.45	1,150	4,000	DIRECT	1/4	120	1	-	-	GREENHECK	SQ-120-B	1,2

NOTES:
1. PROVIDE WITH SPEED SWITCH.
2. SUPPORT EXHAUST FAN FROM STRUCTURE ABOVE.

ELECTRIC WALL HEATER SCHEDULE

UNIT TAG	SERVICE	FAN: CFM	FAN: RPM	FAN: HP	HEAT CAP.: KW	HEAT CAP.: MBH	VOLTS	PH	RECESS DIM. (IN): W	RECESS DIM. (IN): H	RECESS DIM. (IN): D	MTG. ABOVE FLOOR	MFR.	MODEL	REMARKS
EWH-1	MACHINE ROOM 103	100	600	-	2	6.8	208	1	14.38	18.25	3.88	12 INCHES	QMARK	AWH4408	1, 2
EWH-2	MACHINE ROOM 102	100	600	-	2	6.8	208	1	14.38	18.25	3.88	12 INCHES	QMARK	AWH4408	1, 2
EWH-3	MACHINE ROOM 101	100	600	-	2	6.8	208	1	14.38	18.25	3.88	12 INCHES	QMARK	AWH4408	1, 2
EWH-4	ELECTRICAL ROOM 002	100	600	-	2	6.8	208	1	14.38	18.25	3.88	12 INCHES	QMARK	AWH4408	1, 2
EWH-5	ELECTRICAL ROOM 003	100	600	-	2	6.8	208	1	14.38	18.25	3.88	12 INCHES	QMARK	AWH4408	1, 2

NOTES:
1. PROVIDE WITH BUILT-IN THERMOSTAT, FAN DELAY SWITCH, AND DISCONNECT SWITCH.
2. PROVIDE FOR SURFACE MOUNT APPLICATION.

DUCTLESS SPLIT SYSTEM A/C UNIT SCHEDULE

UNIT NO.	INDOOR FAN COIL UNIT (AC-1): SERVICE	CFM	MOUNTING	COOLING CAP. (BTUH)	AIRFLOW SPEED SWITCH	OUTDOOR UNIT (ACCU-1): REFRIGERANT	SEER	MCA	MOCP	VOLTS	PHASE	MFR.	MODEL NO.
AC-1 / ACCU-1	DATA ROOM	775	HIGH WALL	24,000	HIGH	R410A	17	18	30	208	1	MITSUBISHI	PKA/PUY-A24
AC-2 / ACCU-2	SECURITY ROOM	775	HIGH WALL	24,000	HIGH	R410A	17	18	30	208	1	MITSUBISHI	PKA/PUY-A24

NOTES:
1. PROVIDE PRE-CHARGED INSULATED REFRIGERANT LINE SET, LOW AMBIENT TEMPERATURE CAPABILITY, AND WALL-MOUNTED WIRED CONTROLLER.
2. PROVIDE NEW COOLING COIL CONDENSATE PUMP (CP-1.2)
3. PROVIDE 3/4" PVC CONDENSATE DRAIN AND ROUTE AS SHOWN ON DRAWING.
4. PROVIDE ROOF EQUIPMENT RAILS FOR OUTDOOR UNIT.
5. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. AMPERAGE LISTED IS SYSTEM TOTAL. ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL DISCONNECTS FOR BOTH AC AND ACCU.

NOTES:

1. FOR WIND/GRAVITY VENTILATOR ROOF CONNECTION DETAILS, SEE ARCHITECTURAL SHEETS A–601 AND A–602.
2. FOR EXHAUST FAN ROOF CONNECTION DETAILS, SEE ARCHITECTURAL SHEETS A–601 AND A–603.
3. FOR POWER CONNECTIONS TO THE EXHAUST FANS, SEE THE ELECTRICAL DRAWINGS.

NORTH

P
M–101

VENTILATION PLAN

EXHAUST FAN SCHEDULE					
FAN	CFM	SP	MOTOR POWER	V/C/P	MAX. SONES
EF–1	7,000	1 INCH	3 H.P.	460/60/3	25
EF–2	7,000	1 INCH	3 H.P.	460/60/3	25
EF–3	7,000	1 INCH	3 H.P.	460/60/3	25

WIND/GRAVITY VENTILATOR SCHEDULE			
VENTILATOR	QUANTITY	MINIMUM THROAT SIZE	WIND SPEED RATING
GV	90	35 INCH	125 MPH

WISCONSIN
D. MICHAEL UTZINGER
E-27668
MILWAUKEE
WI
PROFESSIONAL ENGINEER

D. Michael Utzinger
31 Oct 2011

PROJECT NO: 1000–40–70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	VENTILATION PLAN	SHEET 32	E

FILE NAME :

PLOT DATE : OCT 31,2011 PLOT BY : M. UTZINGER PLOT NAME : VENTILATION PLAN PLOT SCALE : 1/32"=1'–0"

WISDOT/CADDS SHEET 42

ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN DRAWINGS AND MAY NOT APPLY TO CURRENT PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED ON DRAWINGS.

ELECTRICAL ABBREVIATIONS

1P	-	ONE POLE	KVAR	-	KILOVOLT AMPERE REACTIVE
2P	-	TWO POLE	KW	-	KILOWATT
3P	-	THREE POLE	LP	-	LIGHTING PANEL
4P	-	FOUR POLE	LS	-	LIMIT SWITCH
1P,1W	-	ONE POLE, ONE WIRE	LTG	-	LIGHTING
1P,2W	-	ONE POLE, TWO WIRE	LV	-	LOW VOLTAGE
2P,2W	-	TWO POLE, TWO WIRE	MC	-	MECHANICAL CONTRACTOR
2P,3W	-	TWO POLE, THREE WIRE	MCC	-	MOTOR CONTROL CENTER
3P,2W	-	THREE POLE, TWO WIRE	MDP	-	MAIN DISTRIBUTION PANEL
3P,3W	-	THREE POLE, THREE WIRE	MISC	-	MISCELLANEOUS
3P,4W	-	THREE POLE, FOUR WIRE	MH	-	MANHOLE
4P,4W	-	FOUR POLE, FOUR WIRE	MLO	-	MAIN LUGS ONLY
A	-	AMPERE	MTD	-	MOUNTED
AC	-	ALTERNATING CURRENT	MTG	-	MOUNTING
AF	-	AMPERE FRAME	MTS	-	MANUAL TRANSFER SWITCH
AFF	-	ABOVE FINISHED FLOOR	N / A	-	NOT APPLICABLE
AFG	-	ABOVE FINISHED GRADE	MV	-	MEDIUM VOLTAGE
AIC	-	AMPERE INTERRUPTING CAPACITY	NC	-	NORMALLY CLOSED
AL	-	ALUMINUM	NEC	-	NATIONAL ELECTRIC CODE
AS	-	AMP SWITCH	NIC	-	NOT IN CONTRACT
AT	-	AMP TRIP	NO	-	NORMALLY OPEN
ARCH	-	ARCHITECT	#	-	NUMBER
ATS	-	AUTOMATIC TRANSFER SWITCH	NTS	-	NOT TO SCALE
A / V	-	AUDIO VISUAL	P	-	POLE
B	-	PEDESTAL MOUNTED ON BENCH TOP	PB	-	PULL BOX
BF	-	BELOW FLOOR	PC	-	PLUMBING SYSTEM CONTRACTOR
BFF	-	BELOW FINISHED FLOOR	PH	-	PHASE
BFG	-	BELOW FINISHED GRADE	PNL	-	PANEL OR PANELBOARD
BLDG	-	BUILDING	PP	-	PARTITION PANEL
C	-	CONDUIT	PR	-	PRINTER
CAT	-	CATALOG	PRI	-	PRIMARY
CATV	-	CABLE TELEVISION	PVC	-	POLYVINYL CHLORIDE
CB	-	CIRCUIT BREAKER	REC	-	RECESSED
CKT	-	CIRCUIT	RSC	-	RIGID STEEL CONDUIT
CLG	-	CEILING MOUNTED	SC	-	SECURITY CONTRACTOR
CM	-	COFFEE MAKER	SEC	-	SECONDARY
CT	-	CURRENT TRANSFORMER	SN	-	SOLID NEUTRAL
CU	-	COPPER	SP	-	SPARE
CL	-	CENTERLINE	SS	-	STAINLESS STEEL
D	-	DEDICATED DEVICE	ST	-	SHUNT TRIP
DC	-	DIRECT CURRENT	STP	-	SHIELDED TWISTED PAIR
Δ	-	DELTA	SUSP	-	SUSPENDED
DISC	-	DISCONNECT	SW	-	SWITCH
DW	-	DISHWASHER	SWBD	-	SWITCHBOARD
DWG	-	DRAWING	T	-	TAMPER RESISTANT SAFETY RECEPTACLE
E	-	EMERGENCY	TC	-	TELEPHONE CABINET
EC	-	ELECTRICAL CONTRACTOR	TCI	-	TELECOMMUNICATIONS CABLING INSTALLER
EMT	-	ELECTRIC METALLIC TUBING	TELE / DATA	-	TELEPHONE / DATA
ETR	-	EXISTING TO REMAIN	TEL	-	TELEPHONE
EWC	-	ELECTRIC WATER COOLER	TELECOM	-	TELECOMMUNICATIONS
EX	-	EXISTING	TP	-	TWISTED PAIR
FA	-	FIRE ALARM	TV	-	CABLE TELEVISION
FLA	-	FULL LOAD AMPS	TYP	-	TYPICAL
FO	-	FIBER OPTIC	UG	-	UNDERGROUND
FPC	-	FIRE PROTECTION CONTRACTOR	UTP	-	UNSHIELDED TWISTED PAIR
GC	-	GENERAL CONTRACTOR	UOI	-	UNLESS OTHERWISE INDICATED
GD	-	GARBAGE DISPOSAL	V	-	VOLT
GFCI	-	GROUND FAULT CIRCUIT INTERRUPTER	W	-	WATT
GFPE	-	GROUND FAULT PROTECTION EQUIPMENT	WP	-	WEATHERPROOF
GND	-	GROUND	XFMR	-	TRANSFORMER
GRC	-	GALVANIZED RIGID CONDUIT	XR	-	XRAY
HH	-	HANDHOLE	XV	-	XRAY VIEWER
HP	-	HORSEPOWER	Y	-	WYE
HVAC	-	HEATING, VENTILATING, AND AIR CONDITIONING	ZAM	-	ZONE ADAPTER MODULE
HZ	-	HERTZ (CYCLE) PER SECOND			
JB	-	JUNCTION BOX			
KVA	-	KILOVOLT AMPERE			

GENERAL SYMBOLS

- DETAIL REFERENCE
  - TOP DESIGNATES DETAIL NUMBER
  - BOTTOM DESIGNATES SHEET NUMBER
- DETAIL COVERAGE AREA
- SECTION REFERENCE
  - TOP DESIGNATES SECTION NUMBER
  - BOTTOM DESIGNATES SHEET NUMBER
- EQUIPMENT REFERENCE
  - TOP DESIGNATES EQUIPMENT TYPE:
    (LP) LIGHTING PANEL
    (MDP) MAIN DISTRIBUTION PANEL
    (MSB) MAIN SWITCHBOARD PANEL
    (PP) POWER PANEL
    (RC) RELAY CABINET
    (RP) RECEPTACLE PANEL
    (T) TRANSFORMER
  - BOTTOM DESIGNATES EQUIPMENT ID
- BUSWAY REFERENCE
  - TOP DESIGNATES TYPE
  - BOTTOM DESIGNATES RATING

TELECOMMUNICATIONS

- TELEPHONE OUTLET
- TELEPHONE OUTLET
  - WALL MOUNTED
- TELEPHONE FLOOR OUTLET
  - (X) INDICATES MOUNTING TYPE:
    (F) FLUSH
    (S) SURFACE
- DATA OUTLET
- DATA OUTLET
  - FLOOR TYPE
  - (X) INDICATES MOUNTING TYPE:
    (F) FLUSH
    (S) SURFACE
- TELEPHONE / DATA OUTLET
- TELEPHONE / DATA OUTLET
  - FLOOR TYPE
  - (X) INDICATES MOUNTING TYPE:
    (F) FLUSH
    (S) SURFACE
- ANTENNA SYSTEM OUTLET (CATV)
- ANTENNA SYSTEM MASTER OUTLET (MATV)
- TELECOMMUNICATIONS POLE
  - DEVICES AS INDICATED ON DRAWINGS AND / OR SPECIFICATION

PUBLIC ADDRESS AND MUSIC

- MICROPHONE OUTLET
  - FLOOR MOUNTED
- MICROPHONE OUTLET
  - WALL MOUNTED
- INTERCOM UNIT
  - FLUSH MOUNTED
- MASTER INTERCOM AND DIRECTORY UNIT
- VOLUME CONTROL
- SPEAKER
  - WALL MOUNTED
- SPEAKER
  - CEILING MOUNTED
- SPEAKER
  - BI-DIRECTIONAL PAGING
  - WALL MOUNTED
- SPEAKER
  - BI-DIRECTIONAL PAGING
  - CEILING MOUNTED

LIGHTING FIXTURES

- SURFACE MOUNTED
- RECESS MOUNTED
- WALL MOUNTED
- SUSPENDED, PENDENT, CHAIN, STEM, OR CABLE HUNG
- POLE MOUNTED WITH ARM
- POST TOP MOUNTED
- IN-GROUND OR IN-FLOOR MOUNTED
- SINGLE HEAD SPOT OR FLOOD
- DOUBLE HEAD SPOT OR FLOOD
- STRIP OR UNDER CABINET
- LIGHTING TRACK
  - LENGTH AS INDICATED ON DRAWINGS
  - NUMBER AND DIRECTION OF FIXTURES AS INDICATED ON DRAWINGS AND / OR SCHEDULE
- SURFACE MOUNTED ACCENT
  - CHEVRON INDICATES DIRECTION OF ILLUMINATION
- RECESS MOUNTED ACCENT
  - CHEVRON INDICATES DIRECTION OF ILLUMINATION
- EMERGENCY BATTERY UNIT
  - DUAL LIGHTING HEADS
- EMERGENCY BATTERY REMOTE
  - SINGLE LIGHTING HEAD
- EMERGENCY BATTERY REMOTE
  - DUAL LIGHTING HEADS
- EXIT LIGHT FIXTURE
  - CEILING MOUNTED
  - SHADING INDICATES FACE(S)
  - ARROW(S) AND FACE(S) AS INDICATED ON DRAWINGS
- EXIT LIGHT FIXTURE
  - END MOUNTED
  - SHADING INDICATES FACE(S)
  - ARROW(S) AND FACE(S) AS INDICATED ON DRAWINGS

LIGHTING FIXTURE DESIGNATIONS

- SHADING INDICATES FIXTURE FULLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT
- PARTIAL SHADING INDICATES FIXTURE PARTIALLY WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT
- LIGHT FIXTURE DESIGNATION
  - (A) INDICATES FIXTURE TYPE (SEE SCHEDULE)
  - (1) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
  - (b) INDICATES CONTROL DESIGNATION (IF NOT INDICATED, CONTROLLED VIA SWITCH AT ROOM ENTRY)

A-1b

- con — CONTACTOR DESIGNATION (SEE SCHEDULE)
  - CONTROLLED VIA CONTACTOR
- dal — DIMMER CHANNEL
  - CABINET DESIGNATION
  - CONTROLLED VIA ELECTRONIC DIMMING SYSTEM
- os — SPECIFIC DEVICE DESIGNATION
  - CONTROLLING CIRCUIT OR PORTION OF CIRCUIT
  - OCCUPANCY SENSOR CONTROLLED
- rs — RELAY DESIGNATION
  - CONTROLLING CIRCUIT OR PORTION OF CIRCUIT
  - LOW VOLTAGE RELAY CONTROLLED VIA RELAY CABINET
- ta — TIME CLOCK DESIGNATION (SEE SCHEDULE)
  - TIME CLOCK CONTROLLED

TYPICAL AT EACH FIXTURE LOCATION

LIGHTING CONTROL

- SWITCH
  - MOUNTED 3'-6" AFF, UOI
  - (a) INDICATES SWITCH DESIGNATION
  - SINGLE POLE, UOI
  - (X) INDICATES SWITCH TYPE:
    (2) TWO POLE
    (3) THREE WAY
    (4) FOUR WAY
    (DLS) DUAL LEVEL SWITCH
    (K) KEY OPERATED
    (P) WITH PILOT LIGHT
- SWITCH
  - MOMENTARY CONTACT
  - MOUNTED 3'-6" AFF, UOI
  - (X) INDICATES SYSTEM DESIGNATION
- DIMMER CONTROL STATION
  - ASSOCIATED WITH PACKAGED DIMMING SYSTEM OR MULTI-CHANNEL WALL BOX DIMMER SYSTEM
  - (X) INDICATES SYSTEM DESIGNATION
- SWITCH STATION
  - LOW VOLTAGE
  - (X) INDICATES STATION IDENTIFIER:
    (X) FOR (4) OR MORE SWITCHES AT SINGLE LOCATION (SEE SCHEDULE)
    (Xa,Xb,Ya) FOR (3) OR FEWER SWITCHES AT SINGLE LOCATION WITH SINGLE RELAYS OR PARTITIONS OF CIRCUIT BEING CONTROLLED
    (Xa) FOR SINGLE SWITCH CONTROLLING SINGLE RELAY
    ((X,Y)a) FOR SINGLE SWITCH CONTROLLING MULTIPLE CIRCUITS
- MICROPANEL
  - (X) INDICATES STATION IDENTIFIER (SEE SCHEDULE)
- RELAY CABINET
  - LOW VOLTAGE
  - (SEE SCHEDULE)
- OCCUPANCY SENSOR
  - CEILING MOUNTED
  - (X) INDICATES TYPE (SEE SCHEDULE)
  - CHEVRON(S) INDICATE SENSING DIRECTION(S)
- OCCUPANCY SENSOR
  - WALL MOUNTED
  - 3'-6" AFF, UOI
  - (X) INDICATES TYPE (SEE SCHEDULE)
- CONTACTOR
  - (X) INDICATES TYPE (SEE SCHEDULE)
- TIME CLOCK
  - (X) INDICATES TYPE (SEE SCHEDULE)
- PHOTOCELL
  - (X) INDICATES TYPE (SEE SCHEDULE)
- DAYLIGHT SENSOR
  - (X) INDICATES TYPE (SEE SCHEDULE)

RACEWAYS AND BOXES

- BUSWAY
  - RATING AND TYPE AS INDICATED ON DRAWINGS
- MULTI-OUTLET RACEWAY ASSEMBLY
  - WALL MOUNTED 1'-6" AFF, UOI
  - (X) INDICATES TYPE (SEE SPECIFICATION)
- MH — MANHOLE
- HH — HANDHOLE
- PB — PULL BOX
- J — JUNCTION BOX
- J — JUNCTION BOX
  - POWER IN WHIP FOR MODULAR FURNITURE
- CTB — CABLE TAP BOX
- F — ELECTRICAL BOX
  - FLOOR MOUNTED
  - FLUSH
  - OUTLET TYPES REQUIRED AT EACH BOX AS INDICATED ON DRAWINGS
- P — ELECTRICAL BOX
  - FLOOR MOUNTED
  - POKE THRU
  - OUTLET TYPES REQUIRED AT EACH BOX AS INDICATED ON DRAWINGS

EQUIPMENT AND PANELBOARDS

- G — GENERATOR
- X — TRANSFORMER
  - MOUNTED ON 4" CONCRETE PAD, UOI
  - (X) INDICATES MOUNTING TYPE:
    (W) WALL
    (S) SURFACE
- TRANSFORMER
  - PAD MOUNTED
- CT — CURRENT TRANSFORMER CABINET
- M — METER
- PANELBOARD
  - RECESSED MOUNTED
  - (SEE SCHEDULE)
- PANELBOARD
  - SURFACE MOUNTED
  - (SEE SCHEDULE)
- P X — POWER POLE
  - (X) INDICATES CIRCUIT
  - DEVICES AS INDICATED ON DRAWINGS AND / OR IN SPECIFICATION
- TP X — TELECOMMUNICATIONS / POWER POLE
  - (X) INDICATES CIRCUIT
  - DEVICES AS INDICATED ON DRAWINGS AND / OR IN SPECIFICATION

MOTOR STARTERS AND DISCONNECTS

- M — MOTOR STARTER
  - MANUAL
- X — MOTOR STARTER
  - MAGNETIC
  - (X) INDICATES MOTOR STARTER CONTROLLED (SEE SCHEDULE)
- X — COMBINATION MOTOR STARTER
  - (X) INDICATES MOTOR STARTER CONTROLLED (SEE SCHEDULE)
- X — DISCONNECT SWITCH
  - (X) INDICATES MOTOR FED BY SWITCH
- F X — DISCONNECT SWITCH
  - FUSED
  - (X) INDICATES MOTOR FED BY SWITCH
- EMERGENCY POWER SHUNT TRIP
- PUSHBUTTON DISCONNECT

WIRING DEVICES

- Y H X — DUPLEX RECEPTACLE
  - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
  - (Y) INDICATES TYPE:
    (D) DEDICATED
    (DD) DOUBLE DUPLEX
    (GFCI) GROUND FAULT CIRCUIT INTERRUPTING
    (WP) WEATHERPROOF
    (TV) TELEVISION
    (CM) COFFEE MAKER
- H X — DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER BACKSPLASH
  - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
- S X — DUPLEX RECEPTACLE
  - TOP HALF SWITCHED
  - MOUNTED 1'-6" AFF, UOI
  - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
- X — DUPLEX RECEPTACLE
  - MOUNTED FLUSH IN COUNTERTOP
  - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
- C X — DUPLEX RECEPTACLE
  - MOUNTED FLUSH IN CEILING
  - (X) INDICATES CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
- X — SPECIAL PURPOSE OUTLET
  - (X) INDICATES DEVICE IDENTIFICATION (SEE SCHEDULE)
- X — SPECIAL POWER RECEPTACLE
  - (X) INDICATES NEMA CONFIGURATION AND CIRCUIT NUMBER (PANEL BOUNDS AS INDICATED ON DRAWINGS)
- X — MOTOR CONNECTION
  - (X) INDICATES MOTOR IDENTIFICATION (SEE SCHEDULE)

FIRE ALARM

- ARA FAAP — ANNUNCIATOR PANEL
- FACP — CONTROL PANEL
- FATP — TRANSPONDER PANEL
- FARP — RADIO TRANSMITTER PANEL
- RTS/I — REMOTE TEST SWITCH AND / OR INDICATOR
- FSS — FIRE SUPPRESSION CONTROL PANEL
- CM — CONTROL MODULE
  - ADDRESSABLE
- MM — MONITOR MODULE
  - ADDRESSABLE
- FIRE FIGHTER'S TELEPHONE JACK
- RE-ENTRANT SPEAKER
  - WALL MOUNTED
- PULL STATION
  - MOUNTED 4'-0" AFF
- E S — SMOKE DETECTOR
  - PHOTOELECTRIC
  - INTELLIGENT
  - (E) INDICATES ELEVATOR RECALL OPTION
- E H — HEAT DETECTOR
  - INTELLIGENT
  - (E) INDICATES ELEVATOR SHUTDOWN OPTION
- X B — SMOKE DETECTOR
  - BEAM
  - (X) INDICATES UNIT TYPE:
    (S) SENDING UNIT
    (R) RECEIVING UNIT
- DS — SMOKE DETECTOR
  - DUCT
  - PHOTOELECTRIC
  - INTELLIGENT
  - LINE INDICATES SENSING DIRECTION
- SP — SPEAKER
  - VOICE ALARM
- FS — SPRINKLER FLOW SWITCH
- TS — SPRINKLER TAMPER SWITCH
- R — FAN SHUTDOWN RELAY
- SD — SMOKE DAMPER
- DH — MAGNETIC DOOR HOLDER
- EOL — END OF LINE RESISTOR
- X FA — FIRE ALARM STROBE
  - WALL MOUNTED 6'-8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
  - (X) INDICATES STROBE CANDELA RATING
- X FAS — FIRE ALARM STROBE
  - CEILING MOUNTED
  - (X) INDICATES STROBE CANDELA RATING
- X FA — FIRE ALARM HORN
  - WALL MOUNTED 6'-8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
  - (X) INDICATES HORN DECIBEL RATING
- X FAM — FIRE ALARM HORN
  - CEILING MOUNTED
  - (X) INDICATES HORN DECIBEL RATING
- X FA — FIRE ALARM HORN / STROBE
  - WALL MOUNTED 6'-8" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER
  - (X) INDICATES STROBE CANDELA RATING
- X FAS — FIRE ALARM HORN / STROBE
  - CEILING MOUNTED
  - (X) INDICATES STROBE CANDELA RATING

SECURITY AND ACCESS CONTROL

- CCTV X — CCTV CAMERA
  - STATIONARY
  - (X) INDICATES TYPE:
    (WP) WEATHER PROOF
    (VP) VANDAL PROOF
- CCTV X — CCTV CAMERA
  - PAN-TILT-ZOOM
  - (X) INDICATES TYPE:
    (WP) WEATHER PROOF
    (VP) VANDAL PROOF
- CCTV — CCVT COAXIAL CABLE OUTLET
- MTV — CCVT MONITOR OUTLET
- B — DOOR BELL
- B — DOOR BUZZER
- B — DOOR CHIME
- DC — DOOR CONTACT
- ML — DOOR LOCK
  - MAGNETIC
- DR — DOOR OPENER
  - ELECTRIC
- ES — DOOR STRIKE
  - ELECTRIC
- K — KEY SWITCH STATION
- X CR — SECURITY CARD READER
  - (X) INDICATES TYPE:
    (WP) WEATHER PROOF
    (VP) VANDAL PROOF
- EXIT PUSHBUTTON
- MD — MOTION DETECTOR
- SCP — SECURITY CONTROL PANEL

GROUNDING AND LIGHTNING PROTECTION

- AIR TERMINAL
  - ROOF CENTER
- AIR TERMINAL
  - ROOF PERIMETER
- DOWN CONDUCTOR
- GROUND PLATE ELECTRODE
- GROUND ROD
- GROUND TEST STATION
- GROUND CONNECTION TO STRUCTURAL STEEL
- EXOTHERMIC CONNECTION
  - WELD OR BOLTED AS INDICATED ON DRAWINGS
- GROUND CONDUCTOR SPARE COIL

ONE LINE DIAGRAM

- XA — DISCONNECT SWITCH
  - NON-FUSED
  - (XA) INDICATES RATING
  - SIZE AS INDICATED ON DRAWINGS
- F XAF XA — DISCONNECT SWITCH
  - FUSED
  - (XAF) INDICATES FRAME SIZE
  - (XA) INDICATES FUSE RATING
  - SIZE AS INDICATED ON DRAWINGS
- CB XAF XAT — DISCONNECT SWITCH
  - CIRCUIT BREAKER
  - (XAF) INDICATES FRAME SIZE
  - (XAT) INDICATES TRIP SIZE
  - SIZE AS INDICATED ON DRAWINGS
- X Y — MOTOR STARTER
  - MAGNETIC
  - (X) INDICATES TYPE:
    (2S2W) 2 SPEED, 2 WINDING
    (2S1W) 2 SPEED, 1 WINDING
    (FVNR) FULL VOLTAGE NON-REVERSING
    (FVR) FULL VOLTAGE REVERSING
    (NEMA1) NEMA STARTER SIZE
    (RV) REDUCED VOLTAGE STARTER
  - (Y) INDICATES MOTOR CONTROLLED
- X Y — MOTOR STARTER AND DISCONNECT COMBINATION
  - MAGNETIC
  - (X) INDICATES TYPE:
    (2S2W) 2 SPEED, 2 WINDING
    (2S1W) 2 SPEED, 1 WINDING
    (CB) CIRCUIT BREAKER
    (F) FUSED DISCONNECT SWITCH
    (FVNR) FULL VOLTAGE NON-REVERSING
    (FVR) FULL VOLTAGE REVERSING
    (NEMA1) NEMA STARTER SIZE
    (RV) REDUCED VOLTAGE STARTER
  - (Y) INDICATES MOTOR CONTROLLED
- VFD X — VARIABLE FREQUENCY DRIVE
  - (X) INDICATES MOTOR CONTROLLED
- AUTO-TRANSFER SWITCH
- G — GENERATOR
- Δ Y — T / XXX
  XXKW/VA
  XXXV, XPH, XW PRI
  XXXY / XXXV, XPH, XW SEC
- TRANSFORMER
  - DRY TYPE, UOI
  - (XXX) INDICATES EQUIPMENT IDENTIFICATION
  - (XXXKVA) INDICATES RATING
  - (XXXV, XPH, XW PRI) INDICATES PRIMARY VOLTAGE, PHASE, AND WIRES
  - (XXXY / XXXV, XPH, XW SEC) INDICATES SECONDARY VOLTAGE, PHASE, AND WIRES
- XXX / XXX — PANELBOARD
  - TOP DESIGNATES PANELBOARD TYPE
  - BOTTOM DESIGNATES PANELBOARD ID
- XA XP — CIRCUIT BREAKER
  - (XA) INDICATES TRIP SIZE
  - (XP) INDICATES NUMBER OF POLES
- XAF XAT — CIRCUIT BREAKER
  - PRIMARY DRAW OUT
  - (XAF) INDICATES FRAME SIZE
  - (XAT) INDICATES TRIP SIZE
- XAF XAT — CIRCUIT BREAKER
  - LOW VOLTAGE DRAW OUT
  - (XAF) INDICATES FRAME SIZE
  - (XAT) INDICATES TRIP SIZE
- ST — SHUNT TRIP
- MO — MOTOR OPERATOR FOR CIRCUIT BREAKERS OR SWITCHES
- XA — SWITCH
  - FUSED CUTOUT
  - (XA) INDICATES RATING
- XAF — SWITCH
  - UN-FUSED CUTOUT
  - (XAF) INDICATES FRAME SIZE
- TC — CONTACT
  - NORMALLY OPEN
  - (TC) INDICATES TIMED CLOSING OPTION
- TO — CONTACT
  - NORMALLY CLOSED
  - (TO) INDICATES TIMED OPENING OPTION
- OVERLOAD RELAY
- XA — FUSE
  - (XA) INDICATES RATING
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER
  - PERSONAL PROTECTION
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSION
- (X) — TRANSFORMER
  - POTENTIAL
  - ((X)) INDICATES QUANTITY
- (X) X-XA — TRANSFORMER
  - CURRENT
  - ((X)) INDICATES QUANTITY
  - (X-XA) INDICATES RATIO
- CAPACITOR
- KK — KIRK KEY INTERLOCK SYSTEM
  - (X) INDICATES QUANTITY OF RELATED KIRK KEYS
- GROUND CONNECTION TO SYSTEM AND / OR EQUIPMENT
- LIGHTNING ARRESTER WITH GROUND CONNECTION TO PROTECT ALL PHASES
- POTHEAD
- STRESS CONE
- RESISTOR

PROJECT GENERAL NOTES:

1. COORDINATE ALL UNDERGROUND TRACK CROSSING REQUIREMENTS WITH CANADIAN PACIFIC RAIL.
2. THIS PROJECT HAS PHASED CONSTRUCTION. CONTRACTOR SHALL COORDINATE PHASING OF ALL ELECTRICAL SYSTEMS WITH OTHER TRADES.
3. ALL RACEWAYS SHALL BE CONCEALED, UOI. CONTRACTOR SHALL ROUTE CONDUITS UNDER PLATFORMS, IN UNDER CAVITY OF MEZZANINE, OR IN SOUTHERN EXTERNAL TRAIN SHED WALL. IF CONDITIONS DO NOT ALLOW FOR CONCEALMENT OBTAIN WRITTEN APPROVAL FROM ARCHITECT PRIOR TO INSTALLATION.
4. PROVIDE FIRE ALARM SYSTEM WHICH MEETS THE REQUIREMENTS OF DRAWINGS, SPECIAL PROVISIONS, AND THE AUTHORITY HAVING JURISDICTION.

SHEET INDEX

E-001 - ELECTRICAL SYMBOLS, ABBREV. AND SHEET INDEX

E-100 - TUNNEL LEVEL - LIGHTING PLAN
E-101 - TUNNEL LEVEL - POWER AND SYSTEMS PLAN

E-200 - PLATFORM LEVEL - DEMOLITION PLAN (STA. 42+50 TO 37+50)
E-201 - PLATFORM LEVEL - DEMOLITION PLAN (STA. 37+50 TO 33+00)
E-202 - PLATFORM LEVEL - DEMOLITION PLAN (STA. 33+00 TO 29+00

E-210 - PLATFORM LEVEL - LIGHTING PLAN (STA. 45+50 TO 43+50)
E-211 - PLATFORM LEVEL - LIGHTING PLAN (STA. 43+50 TO 41+50)
E-212 - PLATFORM LEVEL - LIGHTING PLAN (STA. 41+50 TO 39+50)
E-213 - PLATFORM LEVEL - LIGHTING PLAN (STA. 39+50 TO 37+50)
E-214 - PLATFORM LEVEL - LIGHTING PLAN (STA. 37+50 TO 35+50)
E-215 - PLATFORM LEVEL - LIGHTING PLAN (STA. 35+50 TO 33+50)
E-216 - PLATFORM LEVEL - LIGHTING PLAN (STA. 33+50 TO 31+50)

E-222 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 43+50 TO 41+50)
E-223 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 41+50 TO 39+50)
E-224 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 39+50 TO 37+50)
E-225 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 37+50 TO 35+50)
E-226 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 35+50 TO 33+50)
E-227 - PLATFORM LEVEL - POWER AND SYSTEMS PLAN (STA. 33+50 TO 30+50)

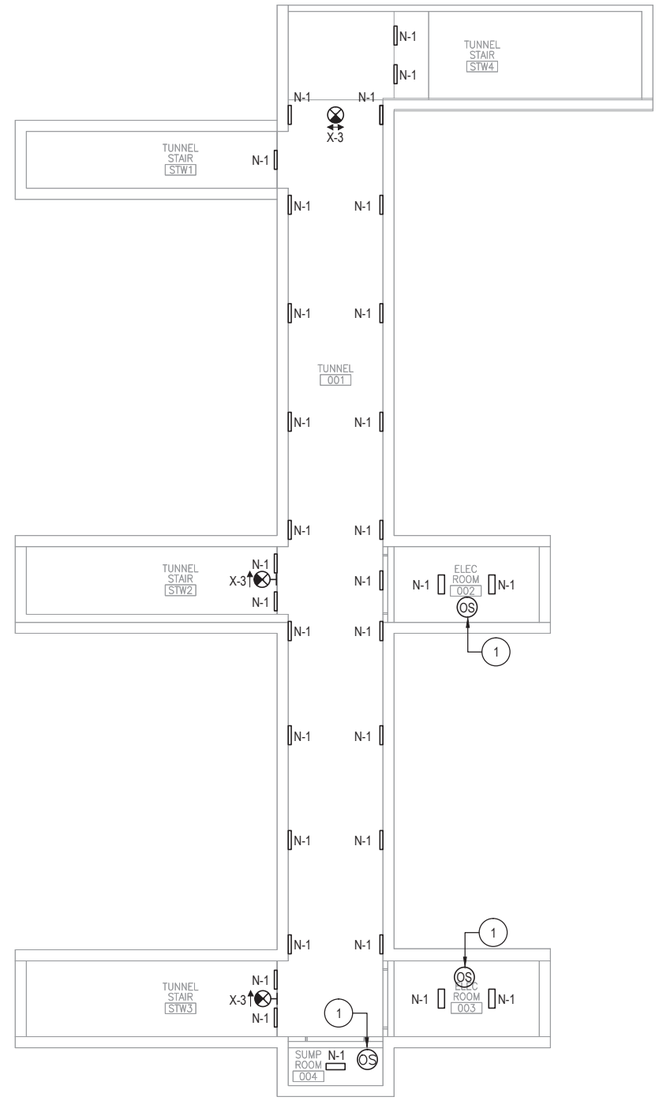
E-228 - MEZZANINE LEVEL - POWER AND SYSTEMS PLAN
E-229 - MEZZANINE LEVEL - LIGHTING PLAN

E-230 - ROOF LEVEL - POWER AND SYSTEMS PLAN

E-235 - PARTIAL FIRST FLOOR PLAN DATA ROOM LIGHTING PLAN
E-236 - PARTIAL FIRST FLOOR PLAN DATA ROOM - POWER

E-400 - ONE LINE DIAGRAM
E-500 - LIGHTING FIXTURE SCHEDULE
E-501 - LIGHTING FIXTURE SCHEDULE CONTINUED
E-502 - LOW VOLTAGE RELAY CABINET AND INVERTER SCHEDULES
E-600 - MOTOR SCHEDULE
E-601 - SPECIAL PURPOSE OUTLET SCHEDULE
E-602 - PANELBOARD SCHEDULES

E-800 - AMTRAK PANEL DETAILS
E-801 - AMTRAK PANEL DETAILS
E-802 - PAGING DESIGN DETAILS



GENERAL NOTES:

1) ALL TUNNEL LIGHTING FED BY EMERGENCY PANELBOARD IN INVERTER "LS/INV2". SEE SCHEDULE ON SHEET E-502.
2) COORDINATE CONDUIT AND JUNCTION BOXES PRIOR TO POUR OF NEW TUNNEL WALL AND CEILING. EXPOSED CONDUITS IN TUNNEL SHALL NOT BE PERMITTED.
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) OCCUPANCY SENSOR WATTSTOPPER DT-300 AND BZ-150 POWER PACK.

B

x14 x13 x12 x11

1 / E-100 TUNNEL LEVEL – LIGHTING PLAN

1/8"=1'-0"

0 4' 8'

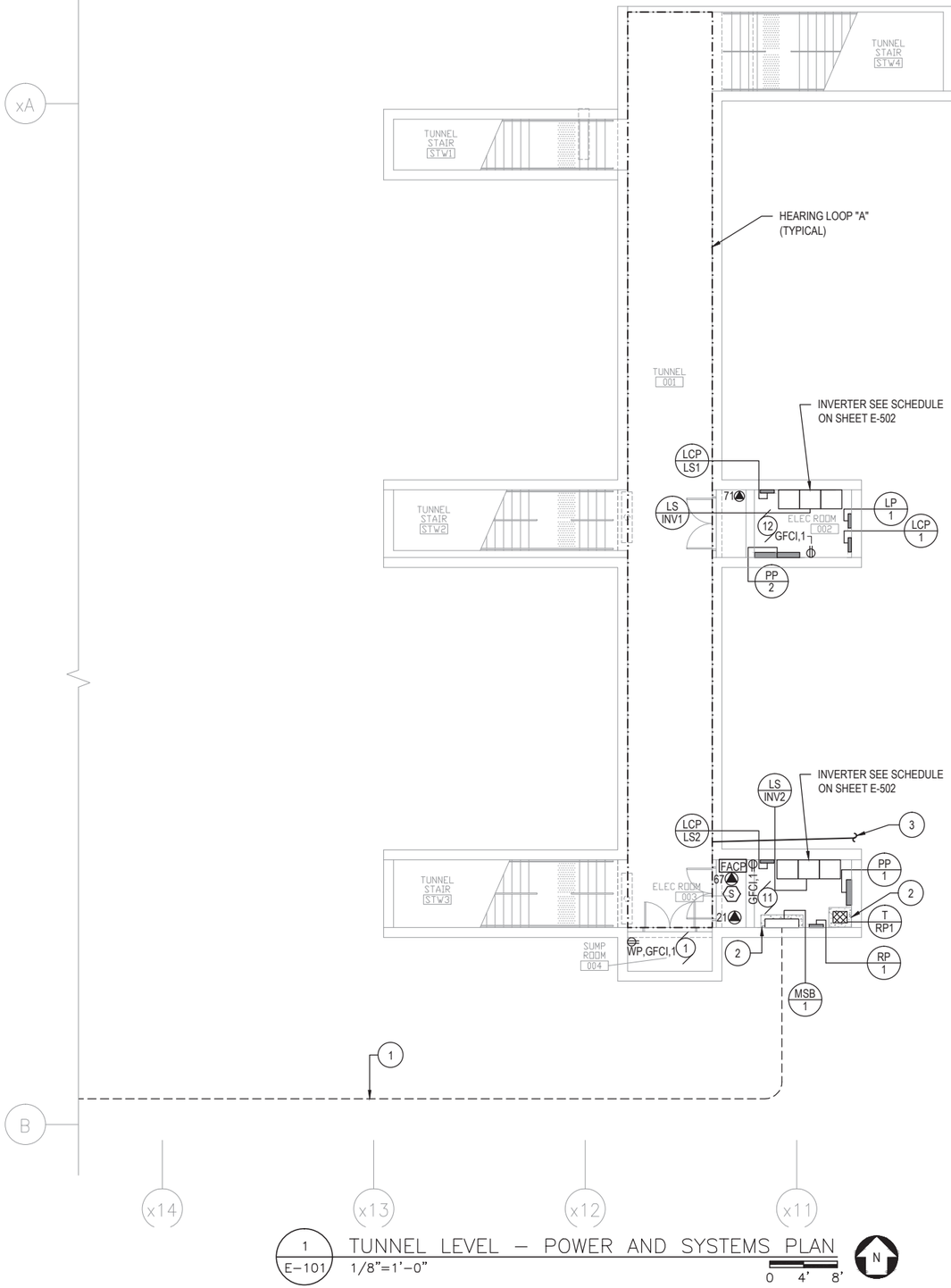
N

E-100

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN TUNNEL LEVEL – LIGHTING PLAN	SHEET 34	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E100.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



1 E-101 TUNNEL LEVEL – POWER AND SYSTEMS PLAN

1/8"=1'-0"

0 4' 8'

N

GENERAL NOTES:

1) ALL RECEPTACLE POWER FED FROM PANELBOARD "RP/1".
2) CONDUIT CROSSINGS UNDER TRAIN TRACKS SHALL BE SCHEDULE 80 PVC AND BURIED AT A DEPTH OF 4 FEED MINIMUM.
3) SURFACE MOUNT THHN 14AWG WIRE (PER HEARING LOOP SPECIAL PROVISION). CABLE SHALL BE CEILING MOUNTED AND KEPT 9-12 INCHES FROM WALLS.
4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

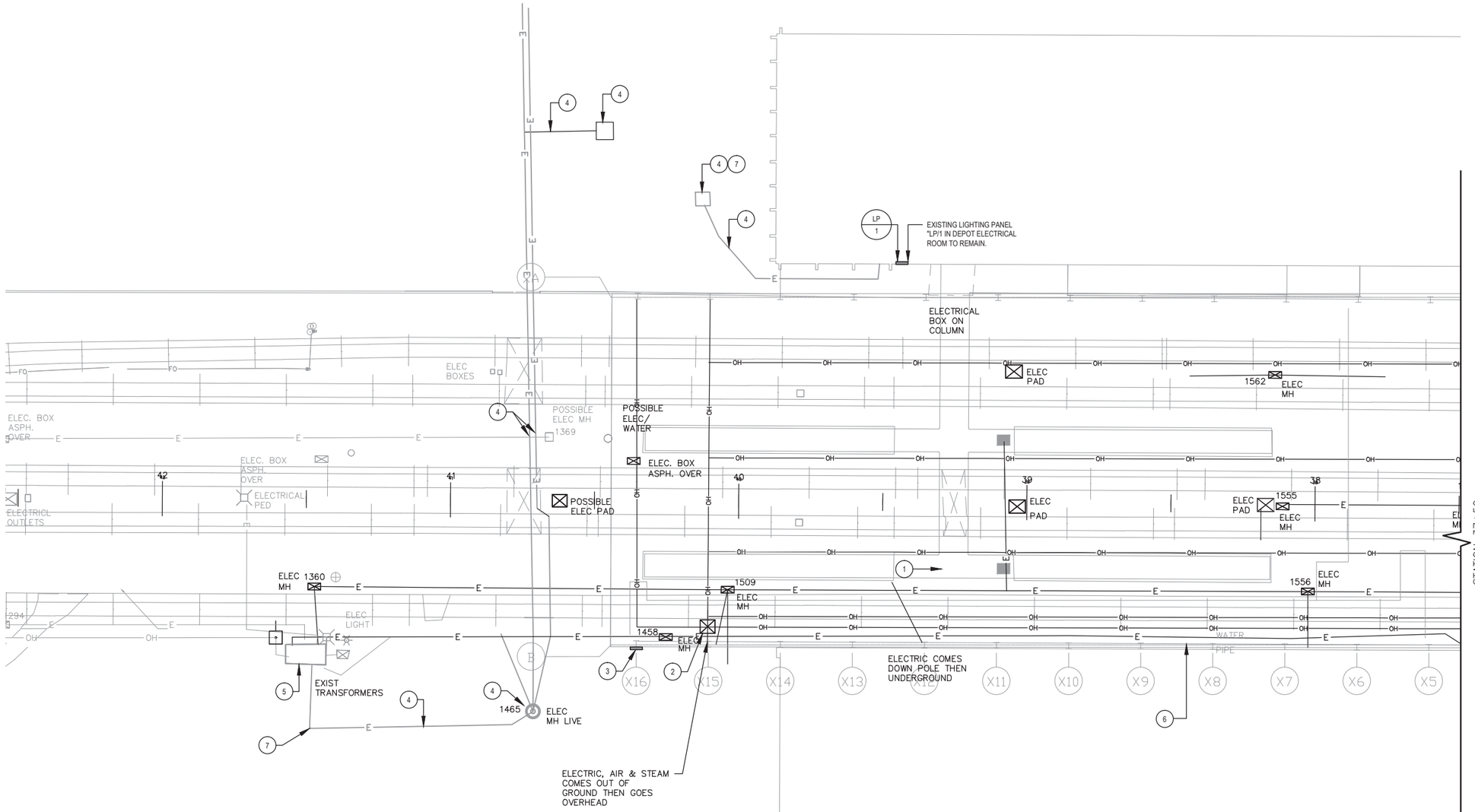
(1) ELECTRICAL SERVICE FEED FROM NEW 1200A TRANSOCKET. SEE SHEETS E-223 AND E-224 FOR ENTIRE CONDUIT ROUTE.

(2) PROVIDE 4" CONCRETE HOUSEKEEPING PAD. EXTEND PAD 4" BEYOND EQUIPMENT FOOTPRINT.

(3) PROVIDE 2" CONDUIT TO HEARING LOOP HANDHOLE ON PLATFORM. PROVIDE 1#14 AWG THHN CONDUCTOR FROM CEILING MOUNTED HEARING LOOP TO BE COUPLED TO HEARING LOOP "A" ON PLATFORM LEVEL IN HANDHOLE ON PLATFORM. SEE HEARING LOOP SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN TUNNEL LEVEL – POWER AND SYSTEMS PLAN	SHEET 35 E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E101.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____ WISDOT/CADDS SHEET 44



GENERAL NOTES:

1) ELECTRICAL CONTRACTOR TO REMOVE ALL ELECTRICAL ITEMS INCLUDING LIGHTING, EQUIPMENT CONNECTIONS CONDUITS, WIRING, BOXES, AND DEVICES IN TRAIN SHED BEING DEMOLISHED UOI. THE ITEMS SHOWN ON THIS PLAN ARE NOT INTENDED TO IDENTIFY EVERYTHING TO BE REMOVED. INFORMATION MUST BE VERIFIED PRIOR TO DEMOLITION. DEMOLITION ALSO SHALL INCLUDE ALL DATA, TELEPHONE WIRING AND EQUIPMENT WHICH IS NOT SHOWN. THE INFORMATION ON THIS SHEET HAS BEEN PROVIDED BY AN OUTSIDE SURVEY AND IS INTENDED TO ASSIST THE CONTRACTOR IN IDENTIFYING THE EXISTING ITEMS THAT IS INCLUDED IN PROJECT WORK.

2) PROVIDE TEMPORARY LIGHTING SYSTEM USING HID SOURCE FOR TRAIN SHED TO MAINTAIN 5fc ON PLATFORM GRADE DURING CONSTRUCTION. BUILDING MOUNTED FIXTURES WILL BE ACCEPTABLE ON NORTH AND SOUTH ADJACENT WALLS. EXISTING PANELBOARD "LP/1" MAY BE USED FOR TEMPORARILY LIGHTING POWER SOURCE.

3) FOR UNDERGROUND FEEDERS TO BE REMOVED EC SHALL REMOVE CONDUCTORS AND ABANDON CONDUIT IN PLACE.

SHEET NOTES:

1. SUMP PUMP MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. SUMP PUMP IS LOCATED IN TUNNEL MECHANICAL ROOM. PROVIDE TEMPORARY POWER AS PUMP REQUIRES. REMOVE ALL ABANDONED EQUIPMENT.
2. OVERHEAD 100A FEEDER MUST BE REROUTED AND MAINTAINED THROUGHOUT CONSTRUCTION FOR LIGHTING LOCATED AND CONTROLLED UNDER POST OFFICE. FEEDER CURRENTLY IS FED FROM PANELBOARD LOCATED IN TRUSSES.
3. PROVIDE TEMPORARY PANELBOARD TO FEED SUMP PUMP, TEMPORARY LIGHTING AND REFEED EXISTING 100A LIGHTING PANELBOARD UNDER POST OFFICE. UTILIZE EXISTING ELECTRICAL SERVICE AS TEMPORARY SOURCE OF POWER. COORDINATE LOCATION IN FIELD.
4. OWNED BY WE-ENERGIES LEAVE IN PLACE (ETR).
5. EXISTING METER STACKS TO REMAIN.
6. REMOVE EXISTING TRANSFORMER LOCATED ALONG THIS EAST - WEST COLUMN AND UNDERGROUND FEEDERS BACK TO CABINET LOCATED NEAR METER STACKS. SEE NOTE 5.
7. EXISTING WE-ENERGIES TRANSFORMER.

1 / E-200 PLATFORM LEVEL – DEMOLITION PLAN (STA. 42+50 TO 37+50)

1"=20'-0"

0 10' 20'

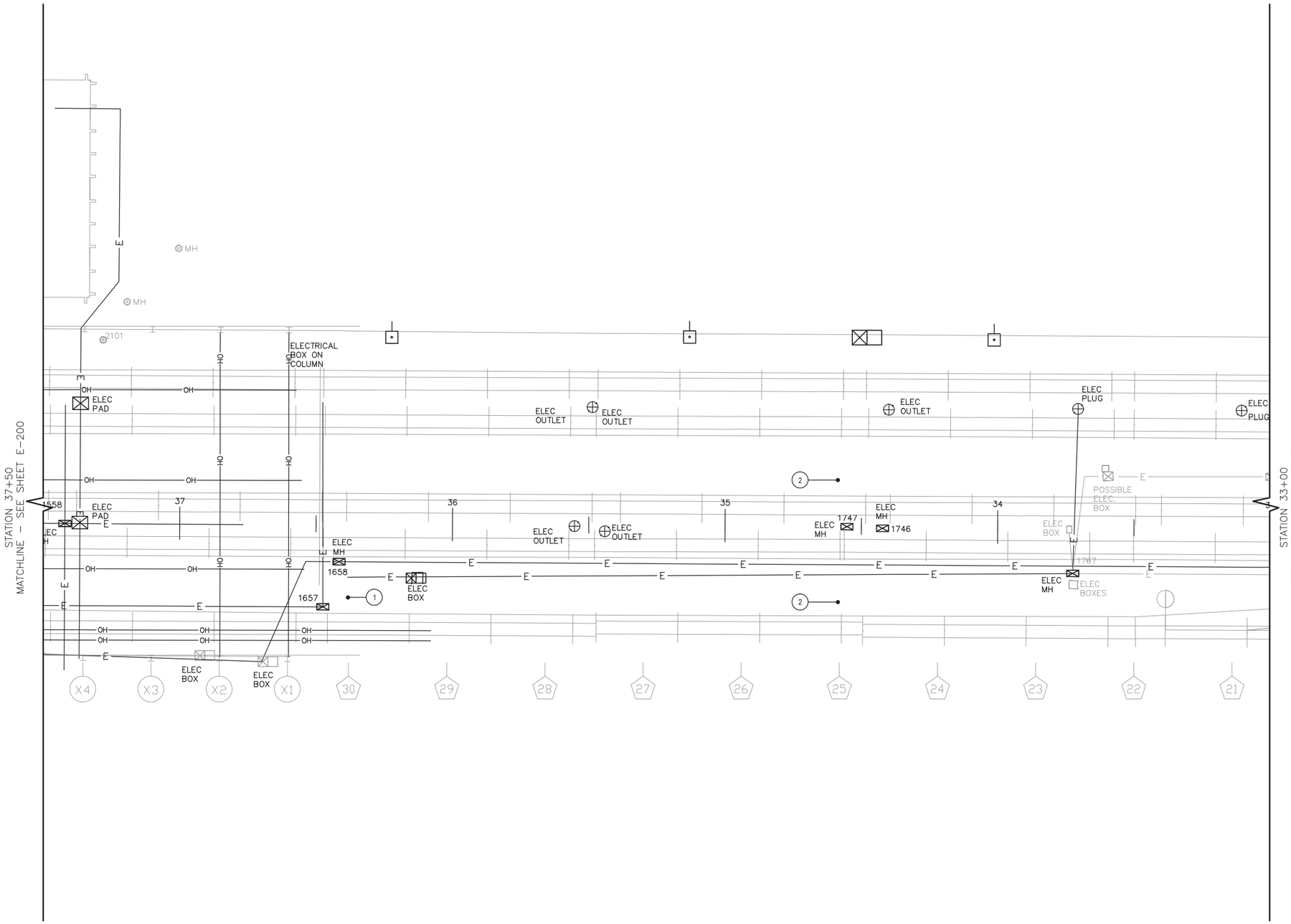
E-200

PROJECT NO: 1000-70-40	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – DEMOLITION PLAN (STA. 42+50 TO 37+50)	SHEET 36	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E200.DWG PLOT DATE : 5/29/2013 PLOT BY : ---- PLOT NAME : _____

WISDOT/CADDS SHEET 44

2



GENERAL NOTES:

1) ELECTRICAL CONTRACTOR TO REMOVE ALL ELECTRICAL ITEMS INCLUDING LIGHTING, EQUIPMENT CONNECTIONS CONDUITS, WIRING, BOXES, AND DEVICES IN TRAIN SHED BEING DEMOLISHED UOI. THE ITEMS SHOWN ON THIS PLAN ARE NOT INTENDED TO IDENTIFY EVERYTHING TO BE REMOVED. INFORMATION MUST BE VERIFIED PRIOR TO DEMOLITION. DEMOLITION ALSO SHALL INCLUDE ALL DATA, TELEPHONE WIRING AND EQUIPMENT WHICH IS NOT SHOWN. THE INFORMATION ON THIS SHEET HAS BEEN PROVIDED BY AN OUTSIDE SURVEY AND IS INTENDED TO ASSIST THE CONTRACTOR IN IDENTIFYING THE EXISTING ITEMS THAT IS INCLUDED IN PROJECT WORK.

2) FOR UNDERGROUND FEEDERS TO BE REMOVED EC SHALL REMOVE CONDUCTORS AND ABANDON CONDUIT IN PLACE.

SHEET NOTES:

(1) CAPTURE 100A EXISTING LIGHTING FEEDER AT JUNCTION BOX LOCATED HERE ABOVE GROUND ON POST OFFICE WALL TO REFEED EXISTING LIGHTING UNDER POST OFFICE OFFICE. UPON COMPLETION OF NEW TRAINSHED ALL TEMPORARY FEEDERS AND LIGHTING TO BE REMOVED.

(2) THIS COLUMN LINE IS THE EAST BOUNDARY OF THE PROJECT FOR PLATFORMS 2 AND 3 UNLESS NOTED OTHERWISE ALL ELECTRICAL ITEMS AND EQUIPMENT EAST OF THIS COLUMN LINE ARE BEING ABANDONED IN PLACE. ANY OVERHEAD WIRING, RACEWAY ETC., BEING REMOVED UNDER THE PROJECT SHALL BE REMOVED TO NEAREST JUNCTION BOX EAST OF THIS LINE.

1 / E-201 PLATFORM LEVEL – DEMOLITION PLAN (STA. 37+50 TO 33+00)

1"=20'-0"

0 10' 20'

N

E-201

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – DEMOLITION PLAN (STA. 37+50 TO 33+00)	SHEET 37	E

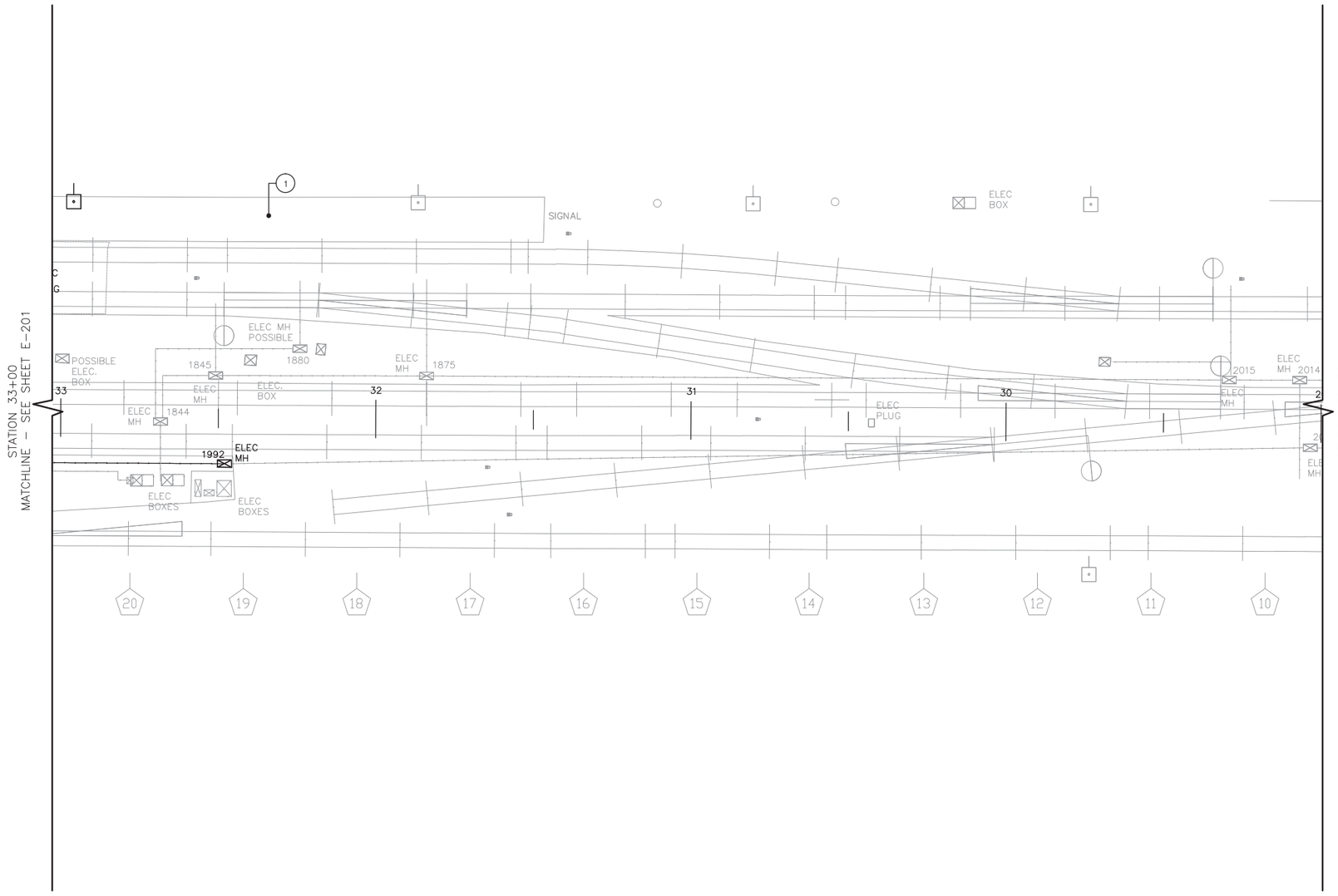
GENERAL NOTES:

1) ALL DEVICES, WIRING, EQUIPMENT, CONDUITS SHOWN OR NOT SHOWN REMAIN, UOI. SEE GENERAL NOTE No.1 ON SHET E-201.

2) FOR UNDERGROUND FEEDERS TO BE REMOVED EC SHALL REMOVE CONDUCTORS AND ABANDON CONDUIT IN PLACE.

SHEET NOTES:

(1) REMOVE ALL ELECTRICAL DEVICES, WIRING, EQUIPMENT, AND CONDUITS ON THIS PLATFORM.



1 / E-202 PLATFORM LEVEL – DEMOLITION PLAN (STA. 33+00 TO 29+00)

1"=20'-0"

0 10' 20'

N

E-202

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – DEMOLITION PLAN (STA. 33+00 TO 29+00)	SHEET 38 E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E202.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

2

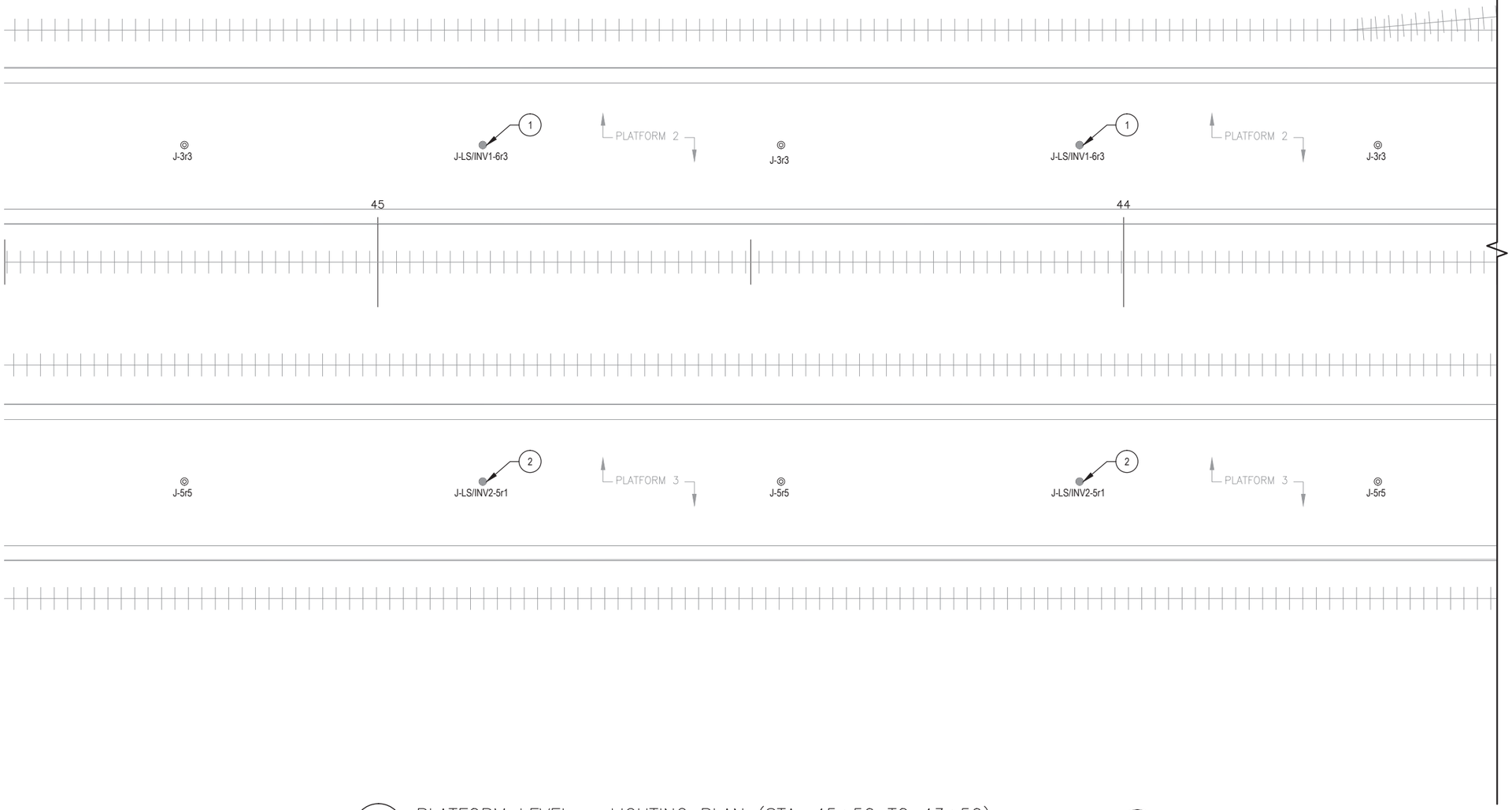
GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) SEE SHEET E-101 FOR PANEL LOCATIONS.
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1

(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.



1 / E-210 PLATFORM LEVEL – LIGHTING PLAN (STA. 45+50 TO 43+50)

1/8"=1'-0"

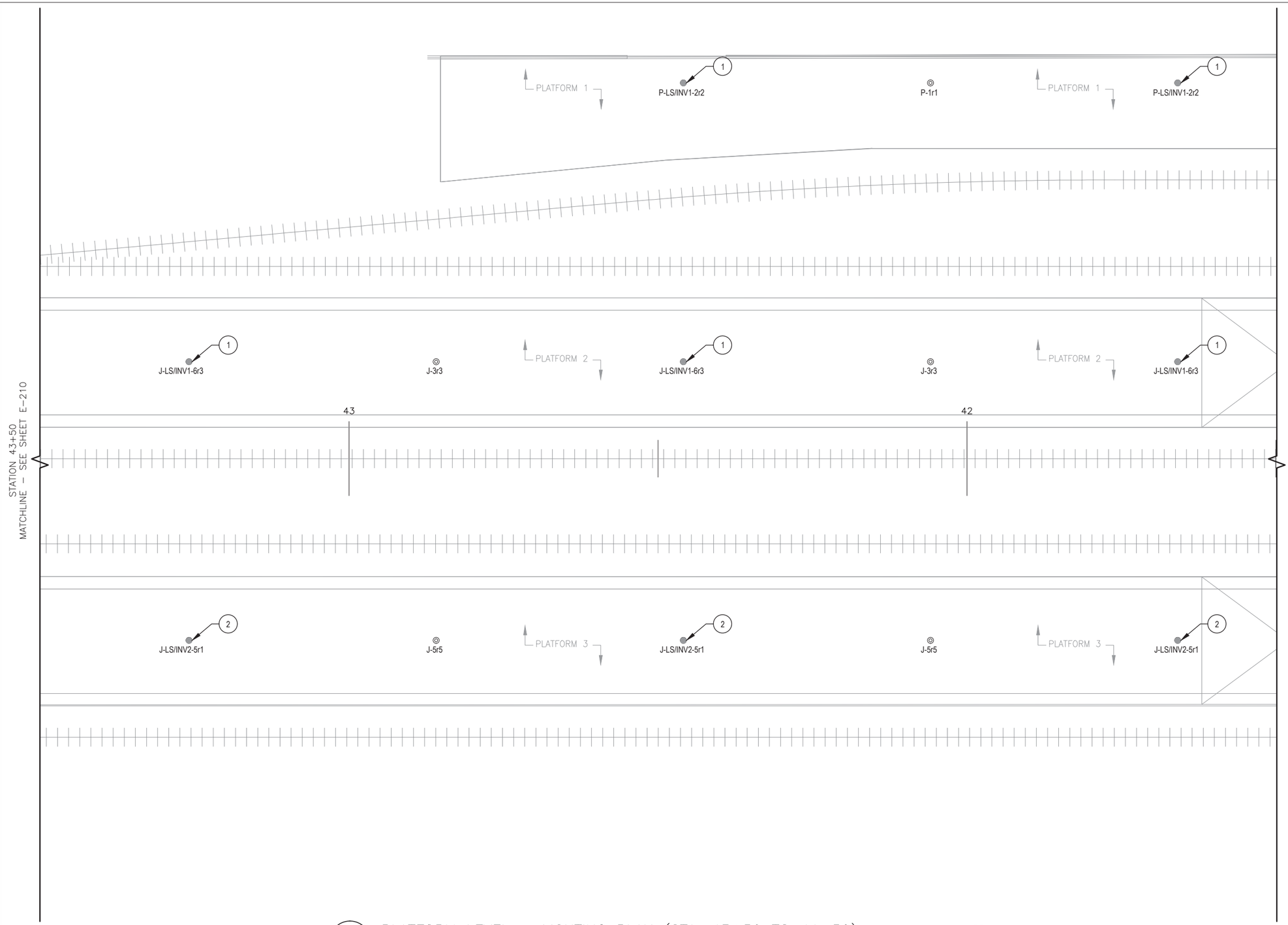
0 4' 8'

N

E-210

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA.45+50 TO 43+50)	SHEET 39	E

2



GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) SEE SHEET E-101 FOR PANEL LOCATIONS.
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1
(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.

1 / E-211 PLATFORM LEVEL – LIGHTING PLAN (STA. 43+50 TO 41+50)

1/8"=1'-0"

0 4' 8'

N

E-211

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 43+50 TO 41+50)	SHEET 40	E

2

GENERAL NOTES:

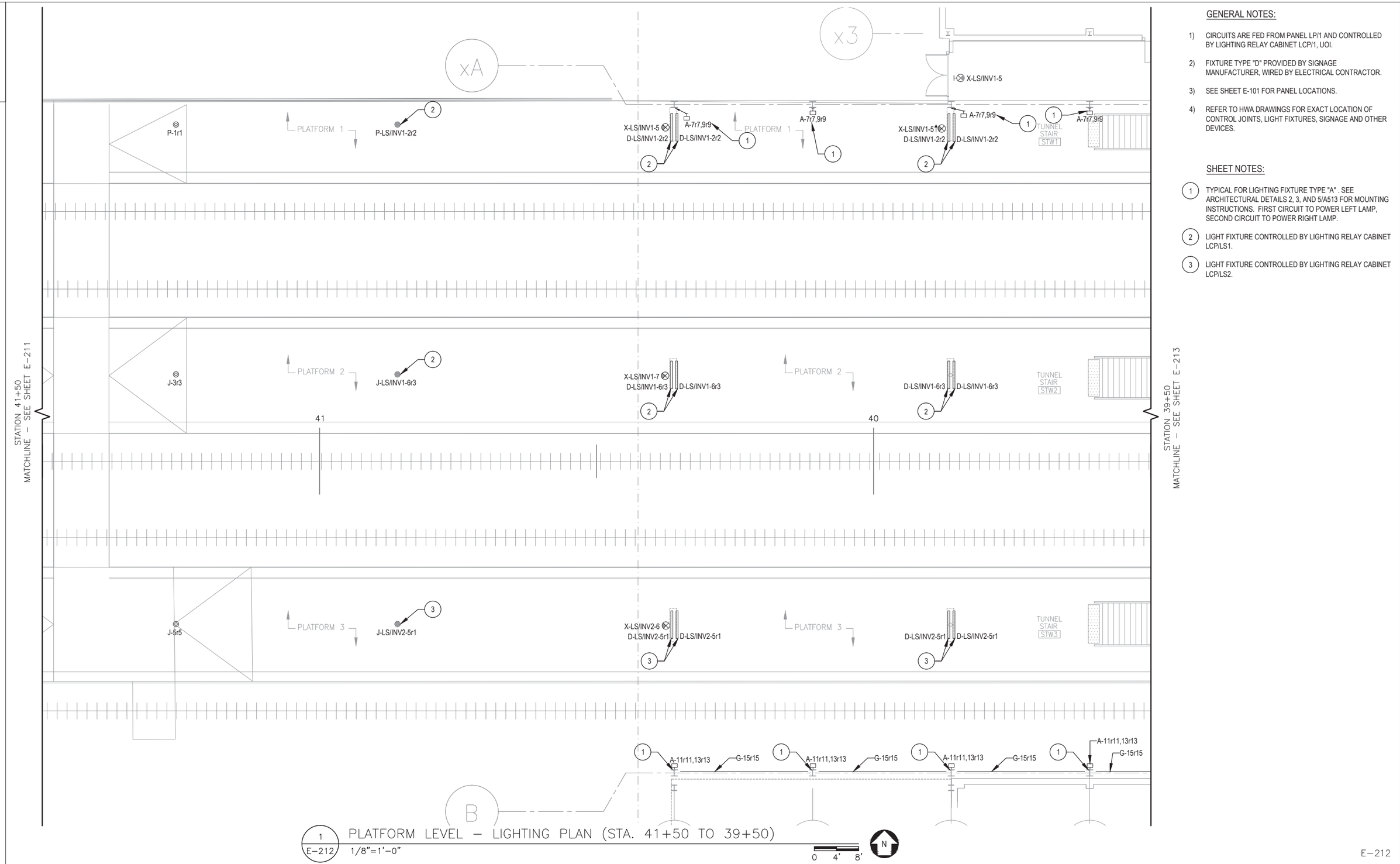
1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) FIXTURE TYPE "D" PROVIDED BY SIGNAGE MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.
3) SEE SHEET E-101 FOR PANEL LOCATIONS.
4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) TYPICAL FOR LIGHTING FIXTURE TYPE "A" . SEE ARCHITECTURAL DETAILS 2, 3, AND 5/A513 FOR MOUNTING INSTRUCTIONS. FIRST CIRCUIT TO POWER LEFT LAMP, SECOND CIRCUIT TO POWER RIGHT LAMP.

(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1.

(3) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.



1 / E-212 PLATFORM LEVEL – LIGHTING PLAN (STA. 41+50 TO 39+50)

1/8"=1'-0"

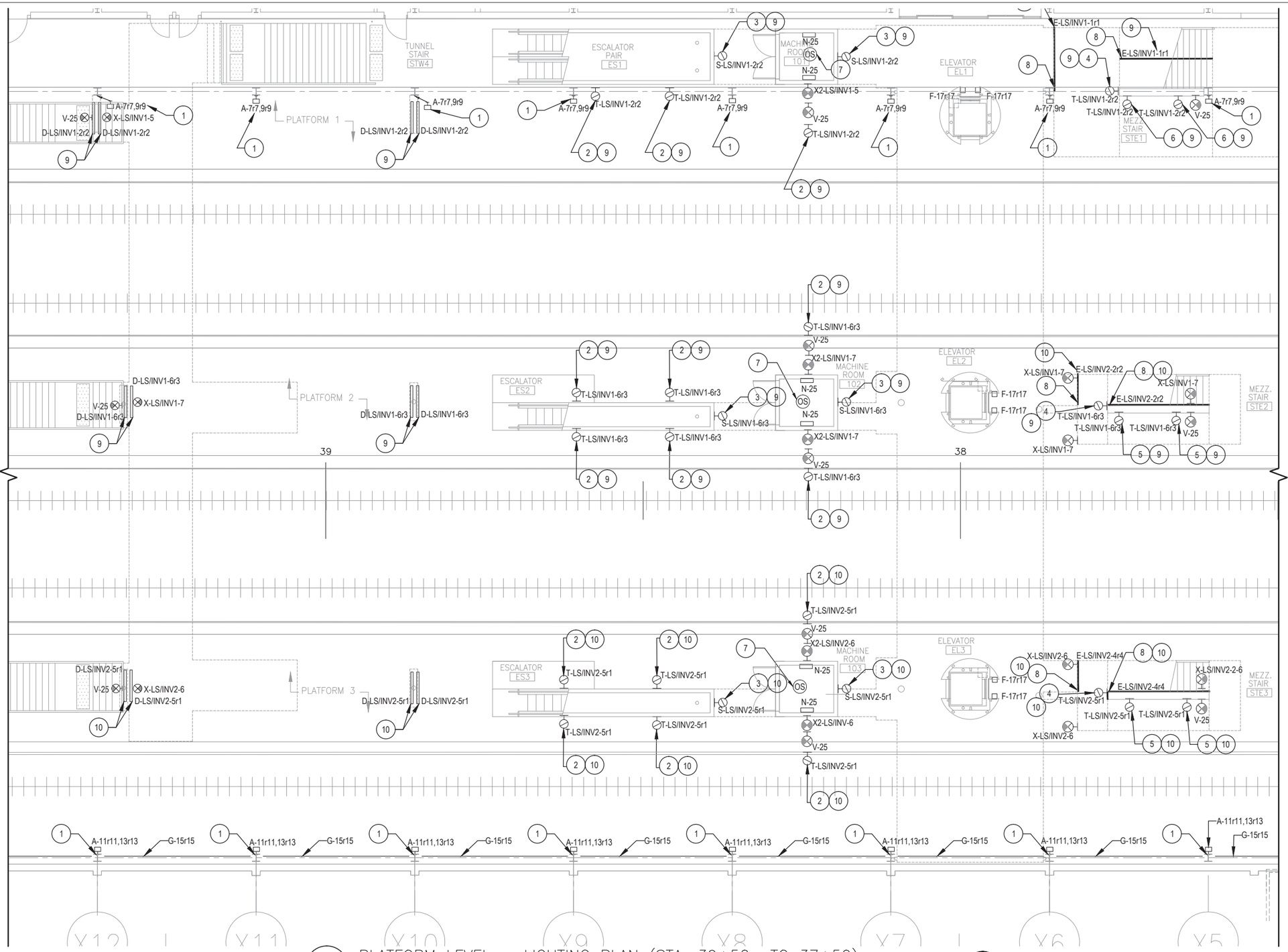
0 4' 8'

E-212

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 41+50 TO 39+50)	SHEET 41	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E212.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) FIXTURE TYPE "D" PROVIDED BY SIGNAGE MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.
3) SEE SHEET E-101 FOR PANEL LOCATIONS.
4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. TYPICAL FOR LIGHTING FIXTURE TYPE "A" . SEE ARCHITECTURAL DETAILS 2, 3, AND 5/A513 FOR MOUNTING INSTRUCTIONS. FIRST CIRCUIT TO POWER LEFT LAMP, SECOND CIRCUIT TO POWER RIGHT LAMP.
2. REFER TO DETAIL 4/A410 FOR MOUNTING INSTRUCTIONS.
3. REFER TO DETAIL 1/A411 FOR MOUNTING INSTRUCTIONS.
4. REFER TO DETAIL 2/A407 FOR MOUNTING INSTRUCTIONS.
5. REFER TO DETAIL 1/A408 FOR MOUNTING INSTRUCTIONS.
6. REFER TO DETAIL 1/A406 FOR MOUNTING INSTRUCTIONS.
7. OCCUPANCY SENSOR WATTSTOPPER DT-300 AND BZ-150 POWER PACK OR APPROVED EQUAL FROM HUBBELL.
8. HANDRAIL TYPE "E" FIXTURE, TO BE FED FROM MEZZANINE LEVEL JUNCTION BOX. FOR CONTINUATION OF LIGHT FIXTURE SEE SHEET E-229.
9. LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1.
10. LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.

1 / E-213 PLATFORM LEVEL – LIGHTING PLAN (STA. 39+50 TO 37+50)

1/8"=1'-0"

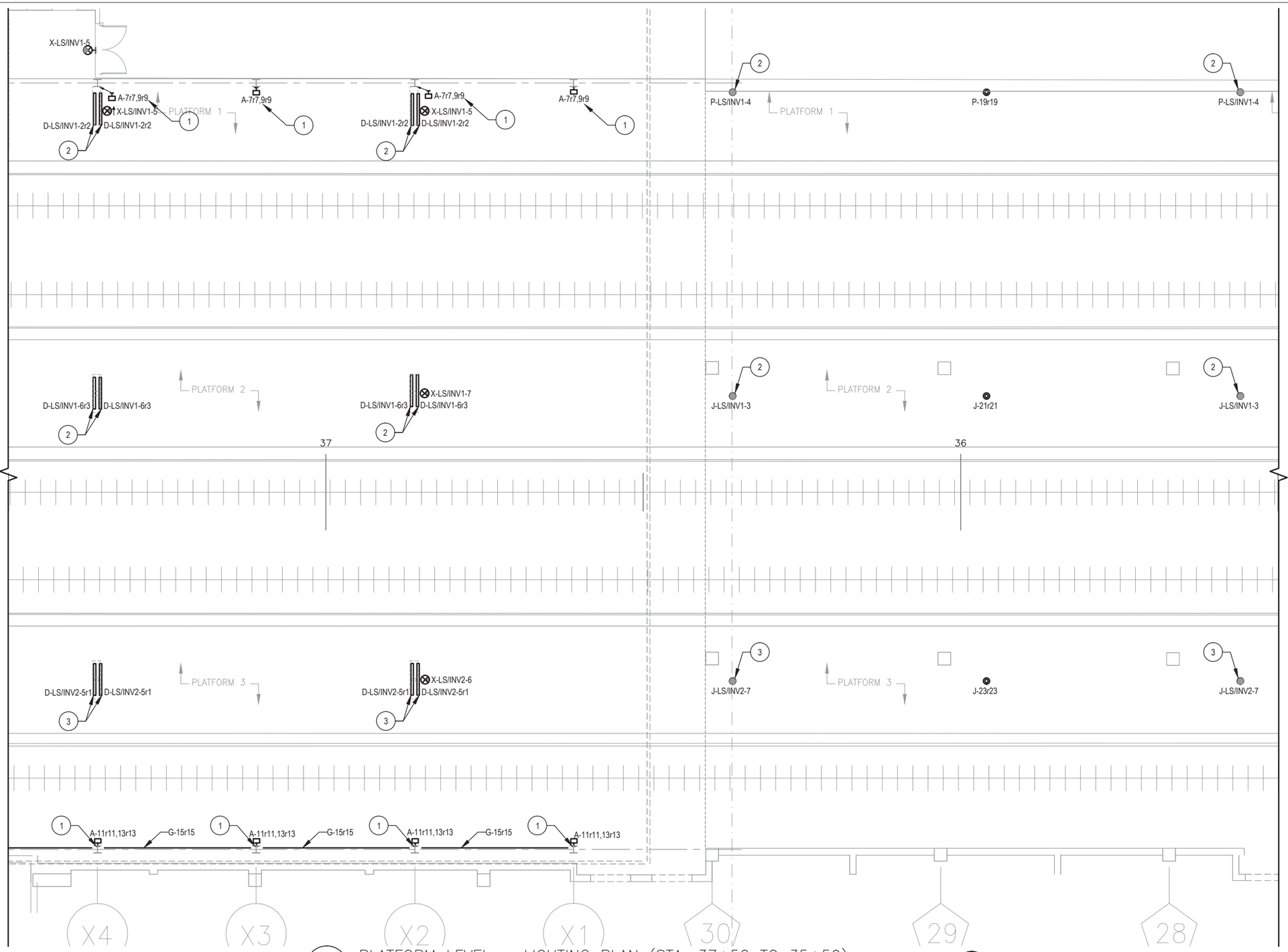
0 4' 8'

N

E-213

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 39+50 TO 37+50)	SHEET 42	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E213.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____



STATION 37+50
MATCHLINE – SEE SHEET E–213

STATION 35+50
MATCHLINE – SEE SHEET E–215

GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) FIXTURE TYPE "D" PROVIDED BY SIGNAGE MANUFACTURER, WIRED BY ELECTRICAL CONTRACTOR.
3) SEE SHEET E-101 FOR PANEL LOCATIONS.
4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) TYPICAL FOR LIGHTING FIXTURE TYPE "A" . SEE ARCHITECTURAL DETAILS 2, 3, AND 5/A513 FOR MOUNTING INSTRUCTIONS. FIRST CIRCUIT TO POWER LEFT LAMP, SECOND CIRCUIT TO POWER RIGHT LAMP.

(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1.

(3) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.

1 / E–214 PLATFORM LEVEL – LIGHTING PLAN (STA. 37+50 TO 35+50)

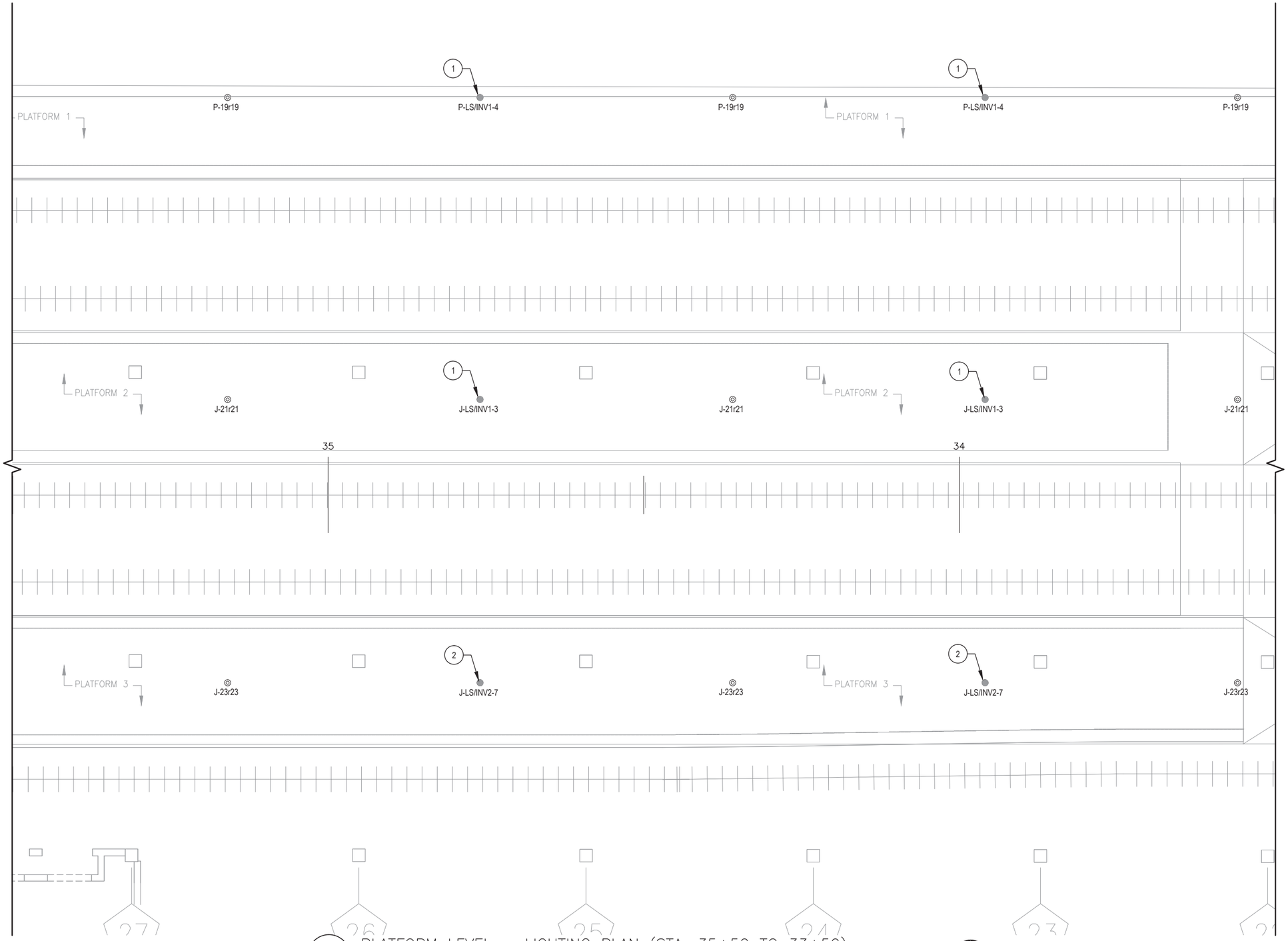
1/8"=1'–0"

0 4' 8'

N

E–214

PROJECT NO: 1000–40–70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 37+50 TO 35+50)	SHEET 43	E



GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) SEE SHEET E-101 FOR PANEL LOCATIONS.
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1
(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.

1 / E-215 PLATFORM LEVEL – LIGHTING PLAN (STA. 35+50 TO 33+50)

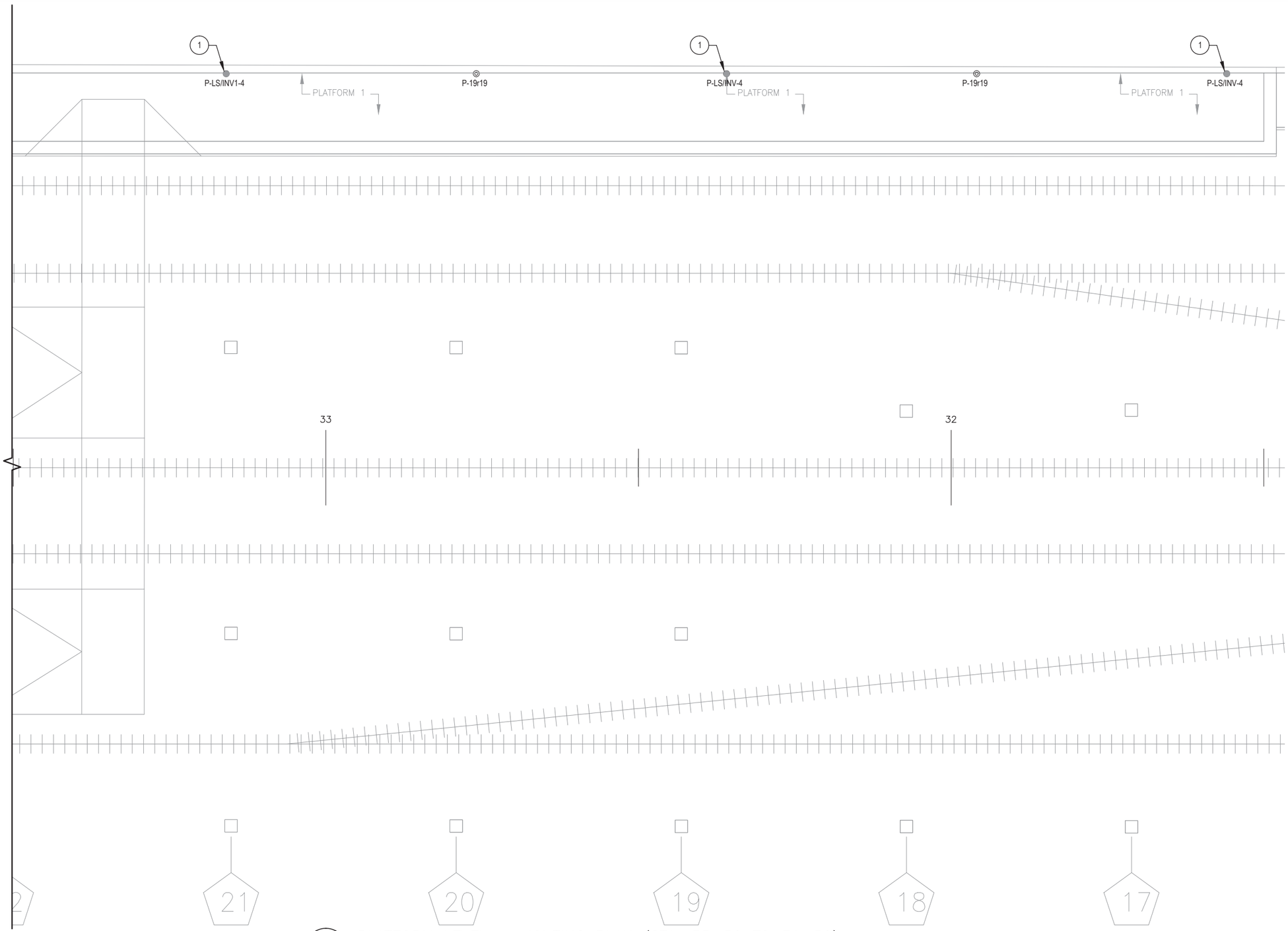
1/8"=1'-0"

0 4' 8'

N

E-215

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 35+50 TO 33+50)	SHEET 44	E



GENERAL NOTES:

1) CIRCUITS ARE FED FROM PANEL LP/1 AND CONTROLLED BY LIGHTING RELAY CABINET LCP/1, UOI.
2) SEE SHEET E-101 FOR PANEL LOCATIONS.
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS1

(2) LIGHT FIXTURE CONTROLLED BY LIGHTING RELAY CABINET LCP/LS2.

1 / E-216 PLATFORM LEVEL – LIGHTING PLAN (STA. 33+50 TO 31+50)

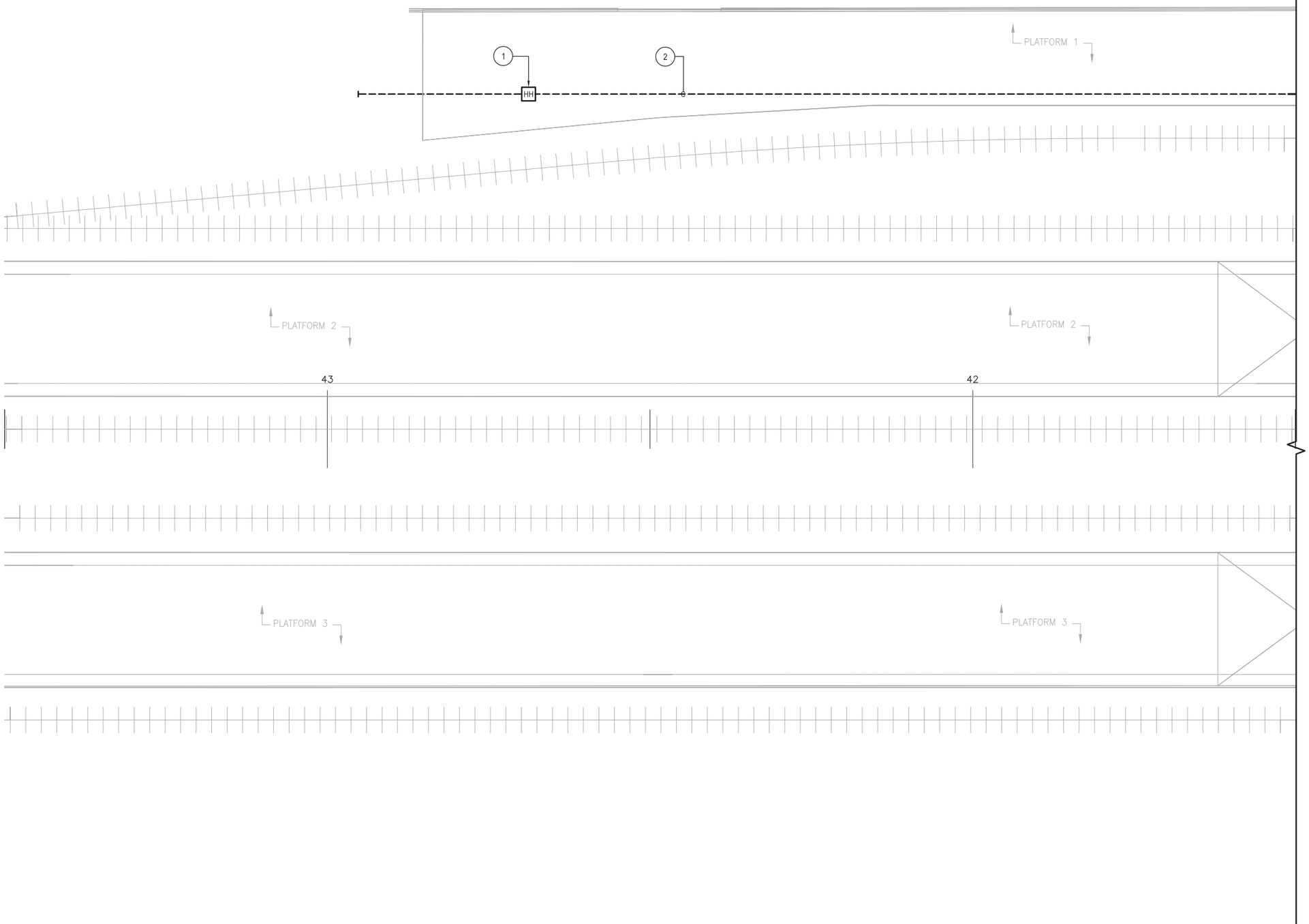
1/8"=1'-0"

0 4' 8'

N

E-216

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – LIGHTING PLAN (STA. 33+50 TO 31+50)	SHEET 45	E



GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.

2) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.

(2) PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.

1 / E-222 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 43+50 TO 41+50)

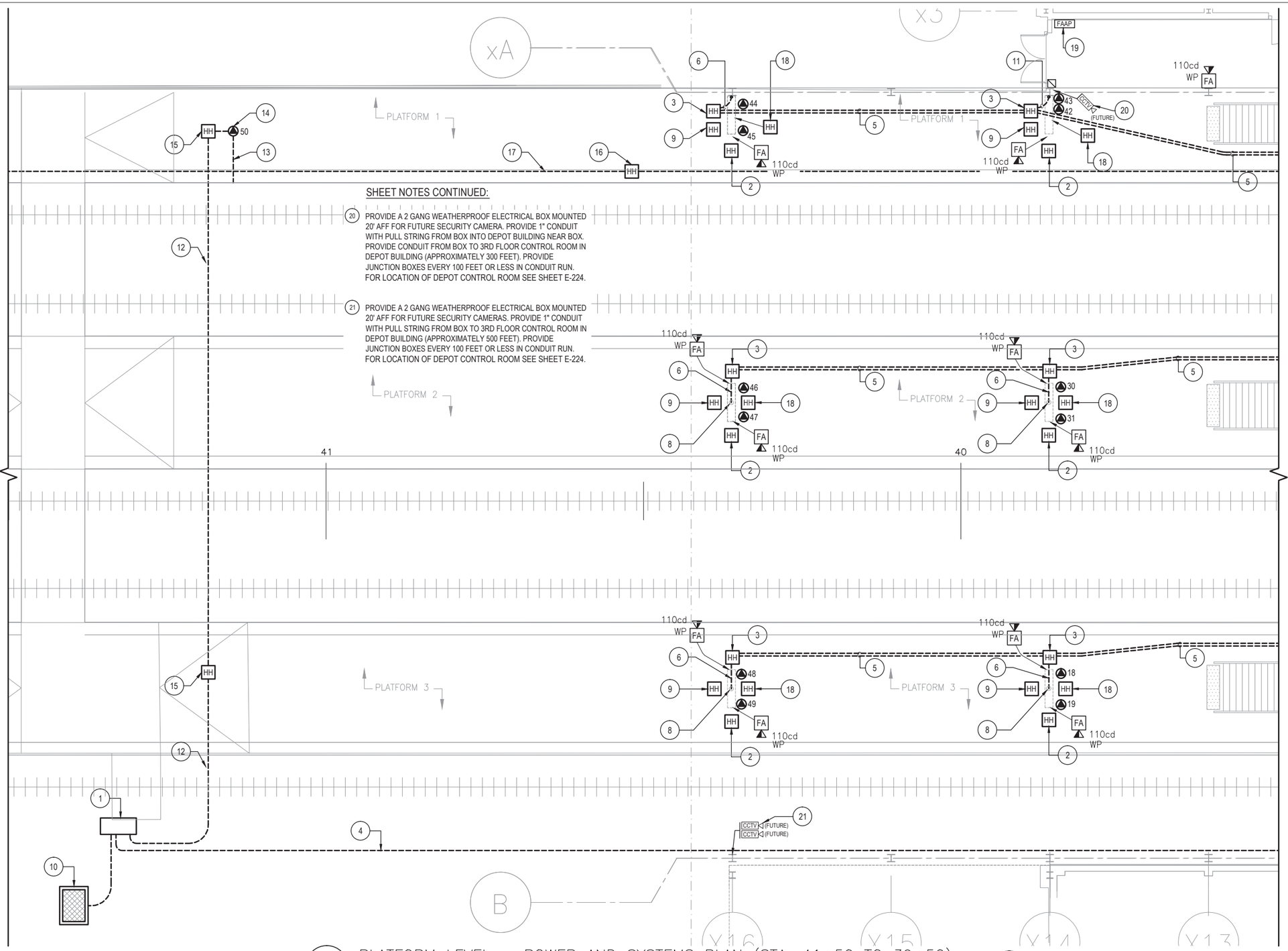
1/8"=1'-0"

0 4' 8'

N

E-222

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 43+50 TO 41+50)	SHEET 46	E



SHEET NOTES CONTINUED:

20. PROVIDE A 2 GANG WEATHERPROOF ELECTRICAL BOX MOUNTED 20' AFF FOR FUTURE SECURITY CAMERA. PROVIDE 1" CONDUIT WITH PULL STRING FROM BOX INTO DEPOT BUILDING NEAR BOX. PROVIDE CONDUIT FROM BOX TO 3RD FLOOR CONTROL ROOM IN DEPOT BUILDING (APPROXIMATELY 300 FEET). PROVIDE JUNCTION BOXES EVERY 100 FEET OR LESS IN CONDUIT RUN. FOR LOCATION OF DEPOT CONTROL ROOM SEE SHEET E-224.

21. PROVIDE A 2 GANG WEATHERPROOF ELECTRICAL BOX MOUNTED 20' AFF FOR FUTURE SECURITY CAMERAS. PROVIDE 1" CONDUIT WITH PULL STRING FROM BOX TO 3RD FLOOR CONTROL ROOM IN DEPOT BUILDING (APPROXIMATELY 500 FEET). PROVIDE JUNCTION BOXES EVERY 100 FEET OR LESS IN CONDUIT RUN. FOR LOCATION OF DEPOT CONTROL ROOM SEE SHEET E-224.

GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.
2) ALL RECEPTACLE POWER TO BE FED FROM PANELBOARD "RP/1".
3) SEE SHEET E-101 FOR PANEL LOCATIONS.
4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. FREE STANDING METER TRANSOCKET. SEE DETAIL 1/E-802 AND SHEET E-400 FOR MORE INFORMATION.
2. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR POWER AND LIGHTING CIRCUITS.
3. PROVIDE QUAZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR DATA/SOUND.
4. ELECTRICAL SERVICE FEEDERS TO TRAIN SHED. COORDINATE WITH OTHER UTILITIES.
5. PROVIDE (2) 2" PVC CONDUITS FOR DATA AND SOUND CABLING, UOI. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. EC SHALL VERIFY ALL ROUTING.
6. PROVIDE (1) 1" RIGID CONDUIT UP TO SIGNAGE.
7. AMTRAK STANDBY CABINET. SEE DETAIL 1/E-800 AND 1/E-801 FOR MORE INFORMATION.
8. MAINTAIN CODE REQUIRED SEPARATION OF SOURCES AT ALL TIMES IN STRUCTURAL POLE AND SIGNAGE. CONTRACTOR MAY USE FLEXIBLE CONDUIT ASSEMBLIES IN POLE AND SIGNAGE AS CODE ALLOWS. NO HAND HOLE TO BE PROVIDED IN BASE OF STRUCTURAL POLE. COORDINATE INSTALLATION OF REQUIRED WIRING WITH POLE PROVIDER AND SIGNAGE MANUFACTURER.
9. PROVIDE QUAZITE PULLBOX MODEL #PC0608 HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR EMERGENCY POWER.
10. APPROXIMATE UTILITY TRANSFORMER LOCATION.
11. ROUTE ALL CONDUITS FOR SIGNAGE PANELS AND LIGHTING ON FACE OF COLUMN. SEE ARCHITECTURAL DETAILS 1A/508 AND 10A/515 FOR SUPPORT AND SPACING REQUIREMENTS. ACTUAL CONDUIT SIZES SHALL BE AS SPECIFIED AND PER NEC.
12. PROVIDE (2) 3-1/2" SCH 80 PVC CONDUITS FROM METER TO HAND HOLE IN PLATFORM #1. PROVIDE TRACER WIRES AND PULL STRINGS IN EACH CONDUIT. CONDUIT DEPTH REQUIREMENTS UNDER TRACKS SHALL BE COORDINATED WITH ALL OTHER UTILITIES AND CANADIAN PACIFIC RAIL REQUIREMENTS.
13. PROVIDE OLDCASTLE PLASTIBETON PRECAST CHANNEL SYSTEM OR APPROVED EQUAL BY CONCAST INC. FROM STANDBY POWER CABINET TO EDGE OF PLATFORM FOR MOBILE AMTRAK CONNECTION WIRING TO RECEPTACLES ON SIDE OF CABINET. COORDINATE INSTALLATION WITH CONCRETE PLATFORM CONTRACTOR.
14. INSTALL STANDBY CABINET WITH FRONT CABINET DOOR PARALLEL TO TRACKS WITH SETBACK OF 8'-0" FRONT OF CABINET DOOR TO EDGE OF PLATFORM.
15. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR STANDBY POWER CABINET.
16. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.
17. PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.
18. PROVIDE QUARZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FIRE ALARM.
19. FINAL LOCATION OF FIRE ALARM ANNUNCIATOR PANEL TO BE APPROVED BY AHJ PRIOR TO INSTALLATION.

E–223

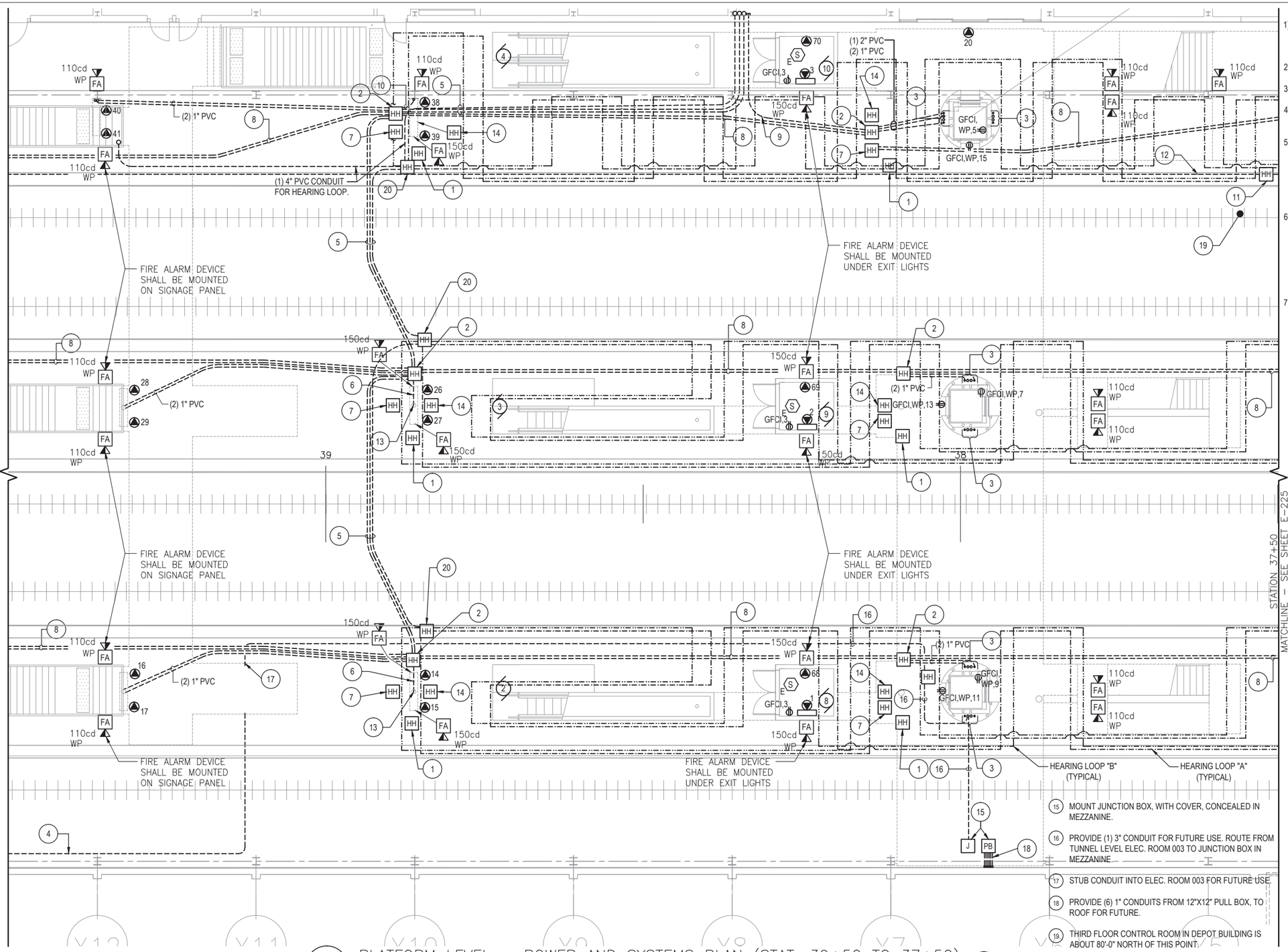
1 / E–223 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 41+50 TO 39+50)

1/8"=1'–0"

0 4' 8'

N

PROJECT NO: 1000–40–70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 41+50 TO 39+50)	SHEET 47	E



1 E-224 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STAT. 39+50 TO 37+50)

1/8"=1'-0"

0 4' 8'

N

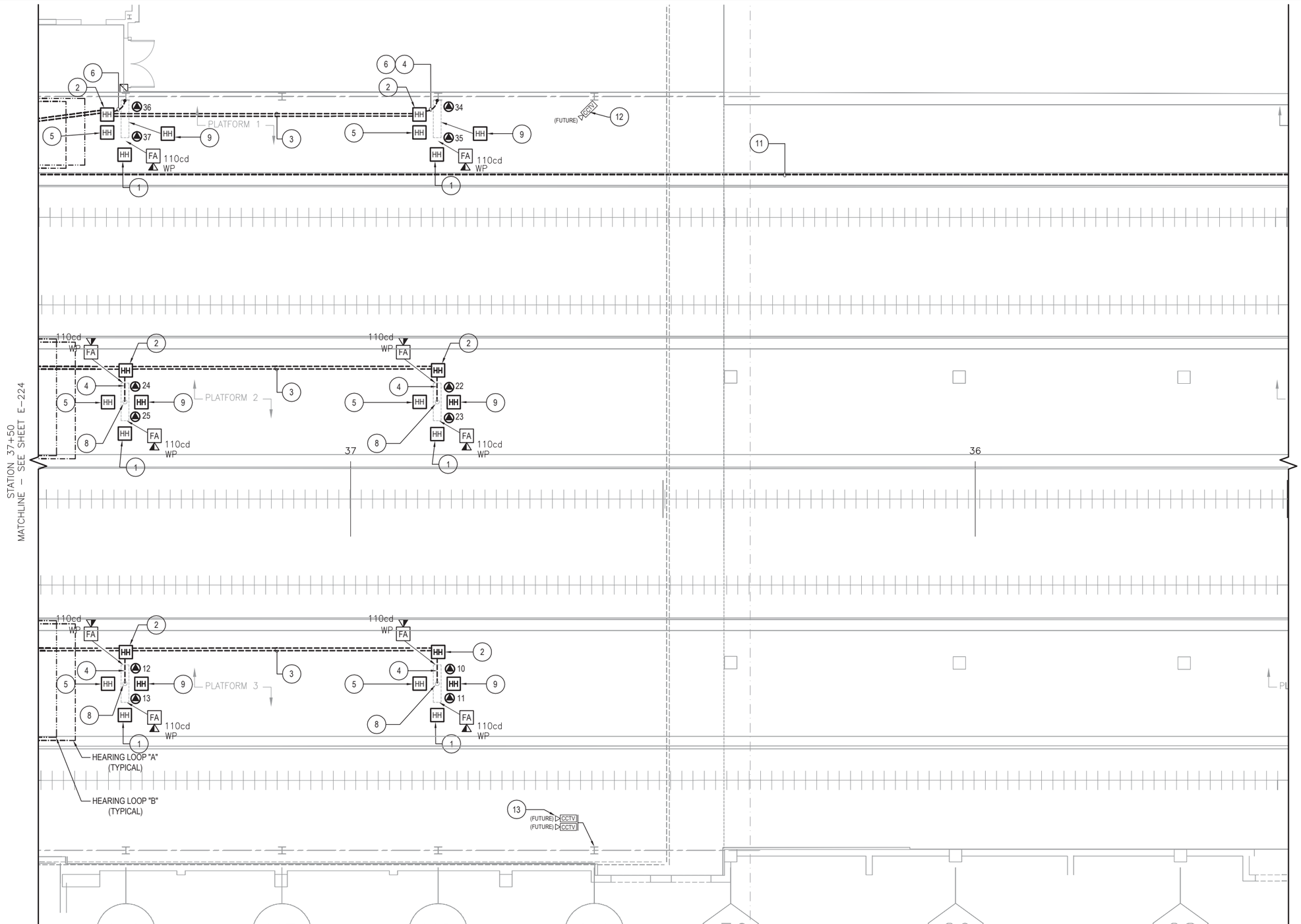
GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.
2) ALL RECEPTACLE POWER TO BE FED FROM PANELBOARD "RP/1".
3) SEE SHEET E-101 FOR PANEL LOCATIONS.
4) HEARING LOOP DRAWING IS DIAGRAMMATIC AND IS SPACED TO ALLOW CONTRACTOR TO SEE CROSSINGS, PATHWAYS, ETC,
5) INSTALL HEARING LOOP "A" WITH 2.5MM EPR-CSP HOFR CABLE IN CONCRETE. CABLE SHALL BE LOCATED WITHIN 9 TO 12 INCHES OF WALLS, PLATFORM EDGE ETC AND WITHIN 3 TO 4 INCHES OF TOP OF CONCRETE. PARALLEL CROSSING OF CABLES SHALL BE WITHIN 1 TO 2 INCHES WITH EACH OTHER. SEE HEARING LOOP SPECIAL PROVISION FOR MORE DETAIL.
6) INSTALL HEARING LOOP "B" WITH 2.5MM EPR-CSP HOFR CABLE IN CONCRETE. CABLE SHALL BE LOCATED WITHIN 9 TO 12 INCHES OF WALLS, PLATFORM EDGE ETC AND WITHIN 3 TO 4 INCHES OF TOP OF CONCRETE. CABLE SHALL BE INSTALLED DIRECTLY ON TOP OF LOOP "A". PARALLEL CROSSING OF CABLES SHALL BE WITHIN 1 TO 2 INCHES WITH EACH OTHER. SEE HEARING LOOP SPECIAL PROVISION FOR MORE DETAIL.
7) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR POWER AND LIGHTING CIRCUITS.
2. PROVIDE QUAZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR DATA/SOUND PULLBOX, UOI.
3. UTILIZE CONDUIT HOLES IN ELEVATOR SHAFT TO ACCESS MEZZANINE.
4. ELECTRICAL SERVICE FEEDERS TO TRAIN SHED. COORDINATE WITH OTHER UTILITIES.
5. PROVIDE (3) 4" PVC CONDUITS UNDERGROUND BETWEEN HANDHOLES. ROUTE CONDUITS INTO EXISTING DEPOT BUILDING. EXTEND CONDUITS TO FIRST FLOOR DATA ROOM. CONDUIT RUNS ARE DIAGRAMMATIC. EC SHALL VERIFY ALL ROUTING. (1) 4" PVC CONDUIT IS FOR HEARING LOOP CABLES.
6. PROVIDE (1) 1" RIGID CONDUIT UP TO SIGNAGE.
7. PROVIDE QUAZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR EMERGENCY POWER.
8. PROVIDE (2) 2" PVC CONDUITS FOR DATA AND SOUND CABLING, UOI. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. EC SHALL VERIFY ALL ROUTING.
9. PROVIDE (1) 2" PVC CONDUIT ROUTED FROM SOUTH END OF MEZZANINE TO EXISTING DEPOT BUILDING. STUB CONDUIT THROUGH EXTERIOR WALL OF BUILDING AND CAP FOR FUTURE.
10. ROUTE ALL CONDUITS FOR SIGNAGE PANELS AND LIGHTING ON FACE OF COLUMN. SEE ARCHITECTURAL DETAILS 1A/508 AND 10A/515 FOR SUPPORT AND SPACING REQUIREMENTS. ACTUAL CONDUIT SIZES SHALL BE AS SPECIFIED AND PER NEC.
11. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.
12. PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.
13. MAINTAIN CODE REQUIRED SEPARATION OF SOURCES AT ALL TIMES IN STRUCTURAL POLE AND SIGNAGE. CONTRACTOR MAY USE FLEXIBLE CONDUIT ASSEMBLIES IN POLE AND SIGNAGE AS CODE ALLOWS. NO HAND HOLE TO BE PROVIDED IN BASE OF STRUCTURAL POLE. COORDINATE INSTALLATION OF REQUIRED WIRING WITH POLE PROVIDER AND SIGNAGE MANUFACTURER.
14. PROVIDE QUARZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FIRE ALARM.
15. MOUNT JUNCTION BOX, WITH COVER, CONCEALED IN MEZZANINE.
16. PROVIDE (1) 3" CONDUIT FOR FUTURE USE. ROUTE FROM TUNNEL LEVEL ELEC. ROOM 003 TO JUNCTION BOX IN MEZZANINE.
17. STUB CONDUIT INTO ELEC. ROOM 003 FOR FUTURE USE.
18. PROVIDE (6) 1" CONDUITS FROM 12"X12" PULL BOX, TO ROOF FOR FUTURE.
19. THIRD FLOOR CONTROL ROOM IN DEPOT BUILDING IS ABOUT 80'-0" NORTH OF THIS POINT.
20. INSTALL 12"x12" HANDHOLE TO ALLOW FOR TERMINATION OF HEARING LOOPS A AND B WITH "STARQUAD" FEEDER CABLE (DEFINED IN HEARING LOOP SPECIAL PROVISION).

E-224



1 E-225 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 37+50 TO 35+50)

1/8"=1'-0"

0 4' 8'

GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.

2) ALL RECEPTACLE POWER TO BE FED FROM PANELBOARD "RP/1".

3) SEE SHEET E-101 FOR PANEL LOCATIONS.

4) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR POWER AND LIGHTING CIRCUITS.
2. PROVIDE QUAZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR DATA/SOUND PULLBOX, UOI.
3. PROVIDE (2) 2" PVC CONDUITS FOR DATA AND SOUND CABLING, UOI. CONDUIT RUNS SHOWN ARE DIAGRAMMATIC. EC SHALL VERIFY ALL ROUTING.
4. PROVIDE (1) 1" RIGID CONDUIT UP TO SIGNAGE.
5. PROVIDE QUAZITE PULLBOX MODEL #PC0608HGG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR EMERGENCY POWER
6. ROUTE ALL CONDUITS FOR SIGNAGE PANELS AND LIGHTING ON FACE OF COLUMN. SEE ARCHITECTURAL DETAILS 1A/508 AND 10A/515 FOR SUPPORT AND SPACING REQUIREMENTS. ACTUAL CONDUIT SIZES SHALL BE AS SPECIFIED AND PER NEC.
7. NOT USED.
8. MAINTAIN CODE REQUIRED SEPARATION OF SOURCES AT ALL TIMES IN STRUCTURAL POLE AND SIGNAGE. CONTRACTOR MAY USE FLEXIBLE CONDUIT ASSEMBLIES IN POLE AND SIGNAGE AS CODE ALLOWS. NO HAND HOLE TO BE PROVIDED IN BASE OF STRUCTURAL POLE. COORDINATE INSTALLATION OF REQUIRED WIRING WITH POLE PROVIDER AND SIGNAGE MANUFACTURER.
9. PROVIDE QUARZITE PULLBOX MODEL #PC0608HG00 COVER WITH BOX MODEL #PC0608BG06 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FIRE ALARM.
10. PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.
11. PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULL STRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.
12. PROVIDE 2 GANG WEATHERPROOF ELECTRICAL BOX MOUNTED 20 FEET AFF FOR FUTURE SECURITY CAMERAS. PROVIDE 1" CONDUIT WITH PULL STRING FROM BOX TO 3RD FLOOR CONTROL ROOM IN DEPOT BUILDING (APPROXIMATELY 200 FEET). PROVIDE JUNCTION BOXES EVERY 100 FEET OR LESS IN CONDUIT RUN. FOR LOCATION OF DEPOT CONTROL ROOM SEE SHEET E-224.
13. PROVIDE 2 GANG WEATHERPROOF ELECTRICAL BOX MOUNTED 20 FEET AFF FOR FUTURE SECURITY CAMERAS. PROVIDE 1" CONDUIT WITH PULL STRING FROM BOX TO 3RD FLOOR CONTROL ROOM IN DEPOT BUILDING (APPROXIMATELY 400 FEET). PROVIDE JUNCTION BOXES EVERY 100 FEET OR LESS IN CONDUIT RUN. FOR LOCATION OF DEPOT CONTROL ROOM SEE SHEET E-224.

2

PLATFORM 1

PLATFORM 2

ATFORM 3

STATION 35+50
MATCHLINE – SEE SHEET E-225

STATION 33+50
MATCHLINE – SEE SHEET E-227

35

34

HH

GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.

2) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.

(2) PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULLSTRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.

1 / E226 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 35+50 TO 33+50)

1/8"=1'-0"

0 4' 8'

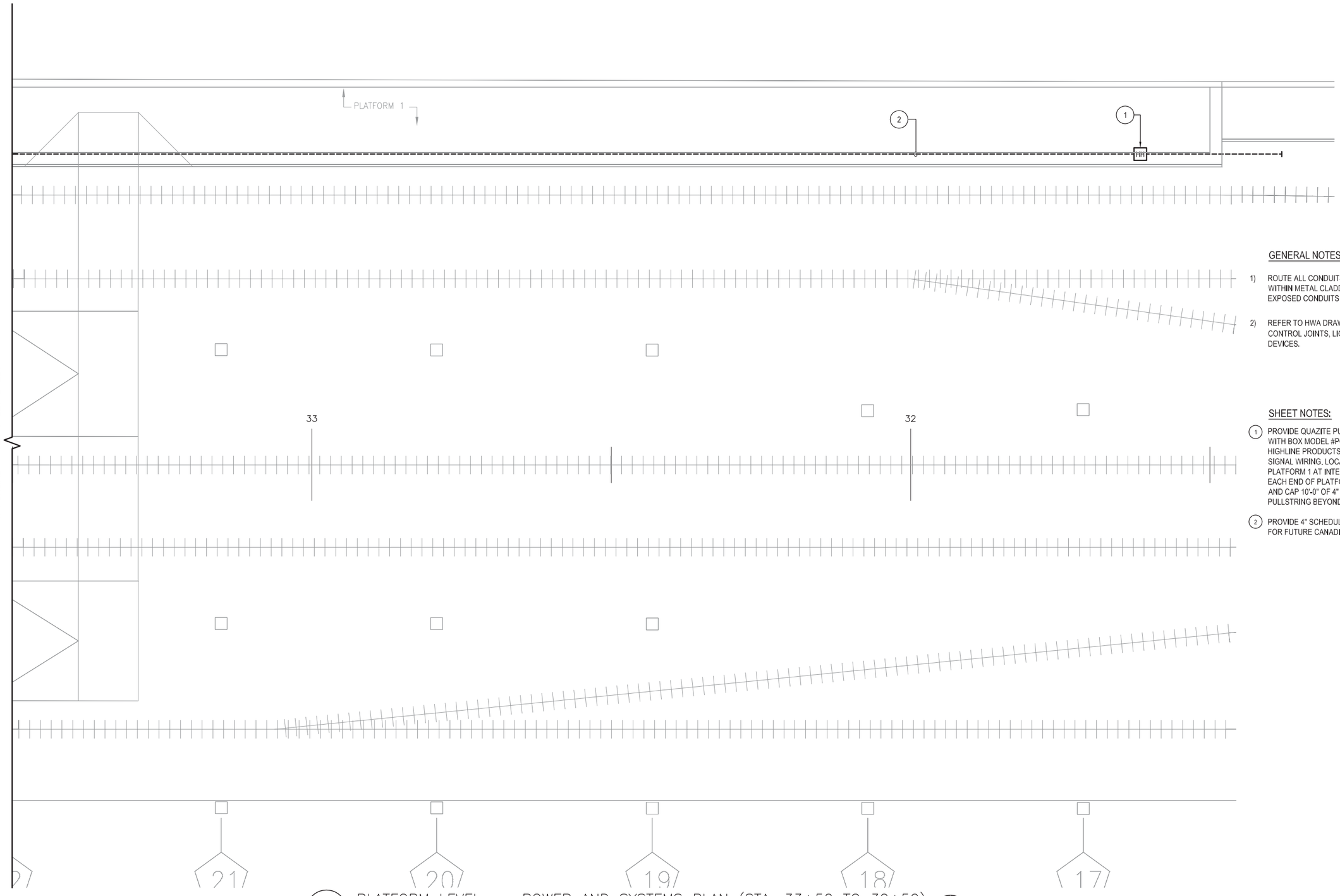
N

E-226

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 35+50 TO 33+50)	SHEET 50	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E226.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORMS AND CONCEALED WITHIN METAL CLADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.

2) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) PROVIDE QUAZITE PULL BOX MODEL #PG1118HG00 COVER WITH BOX MODEL #PG1118BG18 OR APPROVED EQUAL BY HIGHLINE PRODUCTS FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING. LOCATE PULL BOXES ENTIRE LENGTH OF PLATFORM 1 AT INTERVALS OF APPROXIMATELY 300 FEET. EACH END OF PLATFORM 1 SHALL HAVE A PULL BOX. STUB AND CAP 10'-0" OF 4" SCHEDULE 40 PVC PIPE WITH PULLSTRING BEYOND EACH END OF PLATFORM 1.

(2) PROVIDE 4" SCHEDULE 40 PVC CONDUIT WITH PULLSTRING FOR FUTURE CANADIAN PACIFIC RAIL SIGNAL WIRING.

1 / E227 PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 33+50 TO 30+50)

1/8"=1'-0"

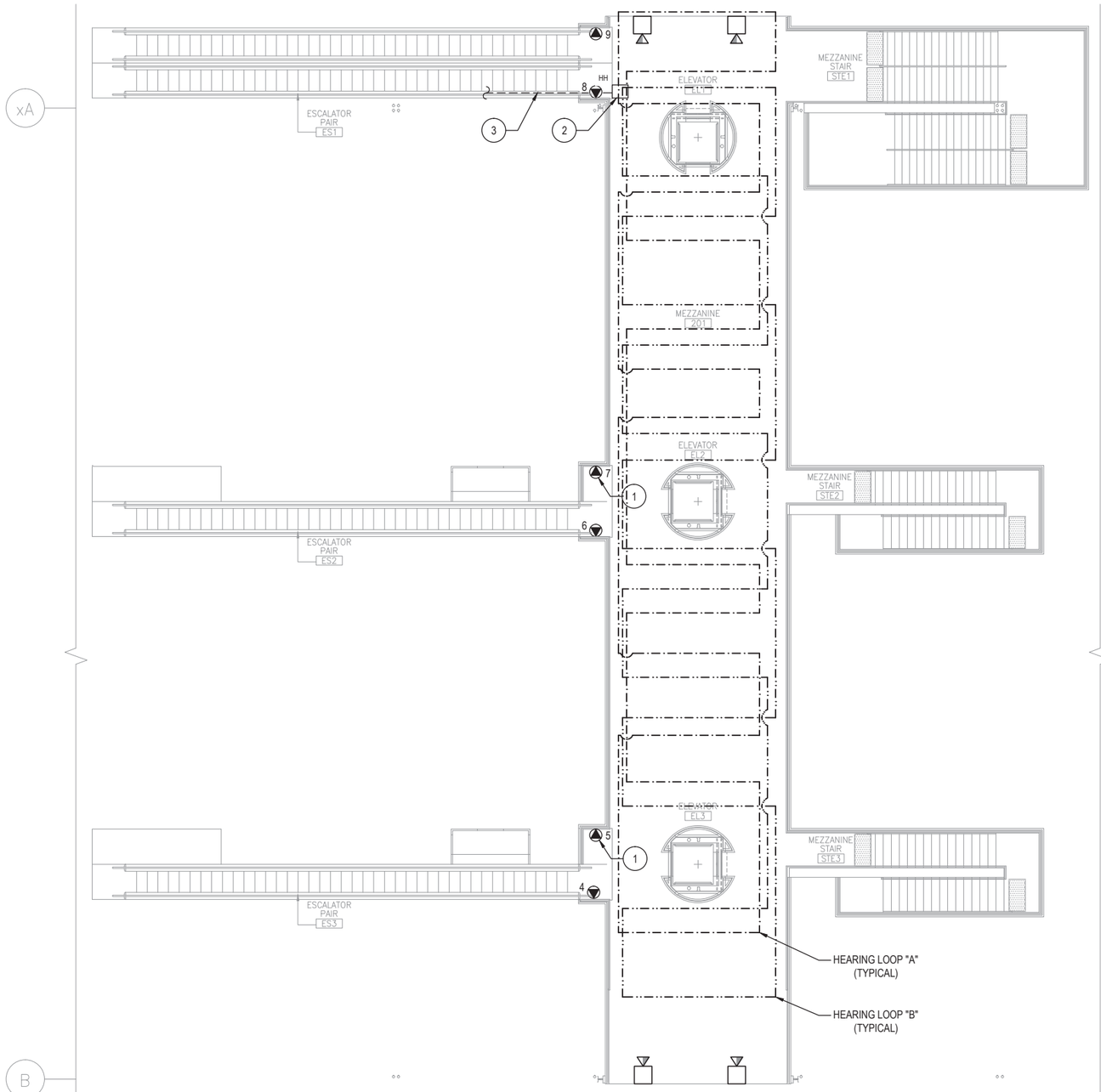
0 4' 8'

N

E-227

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – POWER AND SYSTEMS PLAN (STA. 33+50 TO 30+50)	SHEET 51	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E227.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____



1 E-228 MEZZANINE LEVEL – POWER AND SYSTEMS PLAN

1/8"=1'-0"

0 4' 8'

N

GENERAL NOTES:

1) ROUTE ALL CONDUITS UNDER PLATFORM AND CONCEALED WITHIN METAL CL;ADDING ALONG UNDERSIDE OF MEZZANINE. EXPOSED CONDUITS SHALL NOT BE PERMITTED, UOI.

2) ALL RECEPTACLE POWER TO BE FED FROM PANELBOARD "RP/1".

3) HEARING LOOP DRAWING IS DIAGRAMMATIC AND IS SPACED TO ALLOW CONTRACTOR TO SEE CROSSINGS, PATHWAYS, ETC,

4) INSTALL HEARING LOOP "A" WITH 2.5MM EPR-CSP HOFR CABLE IN CONCRETE. CABLE SHALL BE LOCATED WITHIN 9 TO 12 INCHES OF MEZZANINE BORDER AND WITHIN 3 TO 4 INCHES OF TOP OF CONCRETE. PARALLEL CROSSING OF CABLES SHALL BE WITHIN 1 TO 2 INCHES WITH EACH OTHER. SEE HEARING LOOP SPECIAL PROVISION FOR MORE DETAIL.

5) INSTALL HEARING LOOP "B" WITH 2.5MM EPR-CSP HOFR CABLE IN CONCRETE. CABLE SHALL BE LOCATED WITHIN 9 TO 12 INCHES OF MEZZANINE BORDER AND WITHIN 3 TO 4 INCHES OF TOP OF CONCRETE. CABLE SHALL BE INSTALLED DIRECTLY ON TOP OF LOOP "A". PARALLEL CROSSING OF CABLES SHALL BE WITHIN 1 TO 2 INCHES WITH EACH OTHER. SEE HEARING LOOP SPECIAL PROVISION FOR MORE DETAIL.

6) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

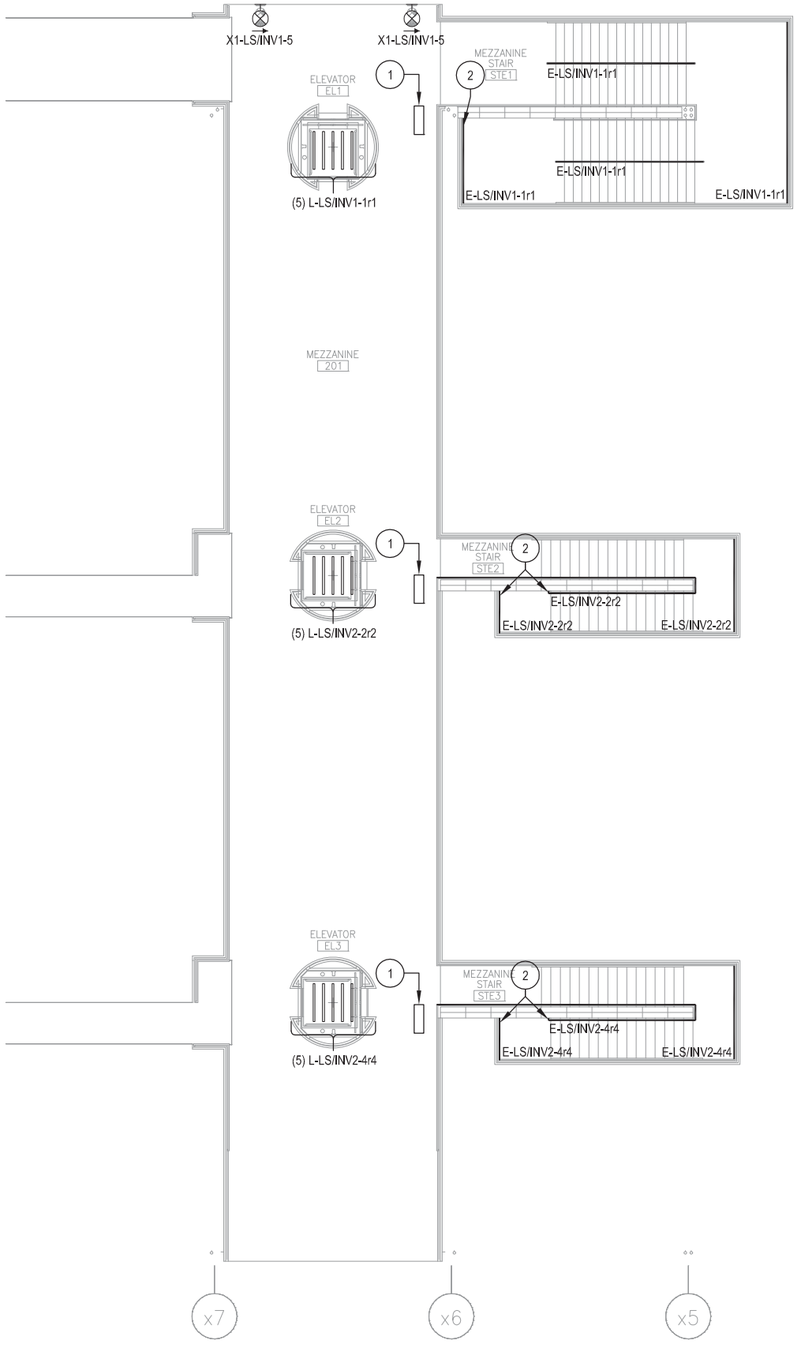
(1) PROVIDE CONDUCTORS FROM PANEL TO JUNCTION BOX AT THIS LOCATION FOR FUTURE ESCALATOR. COIL 10 FEET OF CONDUCTORS IN BOX. COVER ENDS OF LOOSE CONDUCTORS WITH WEATHER PROOF INSULATOR.

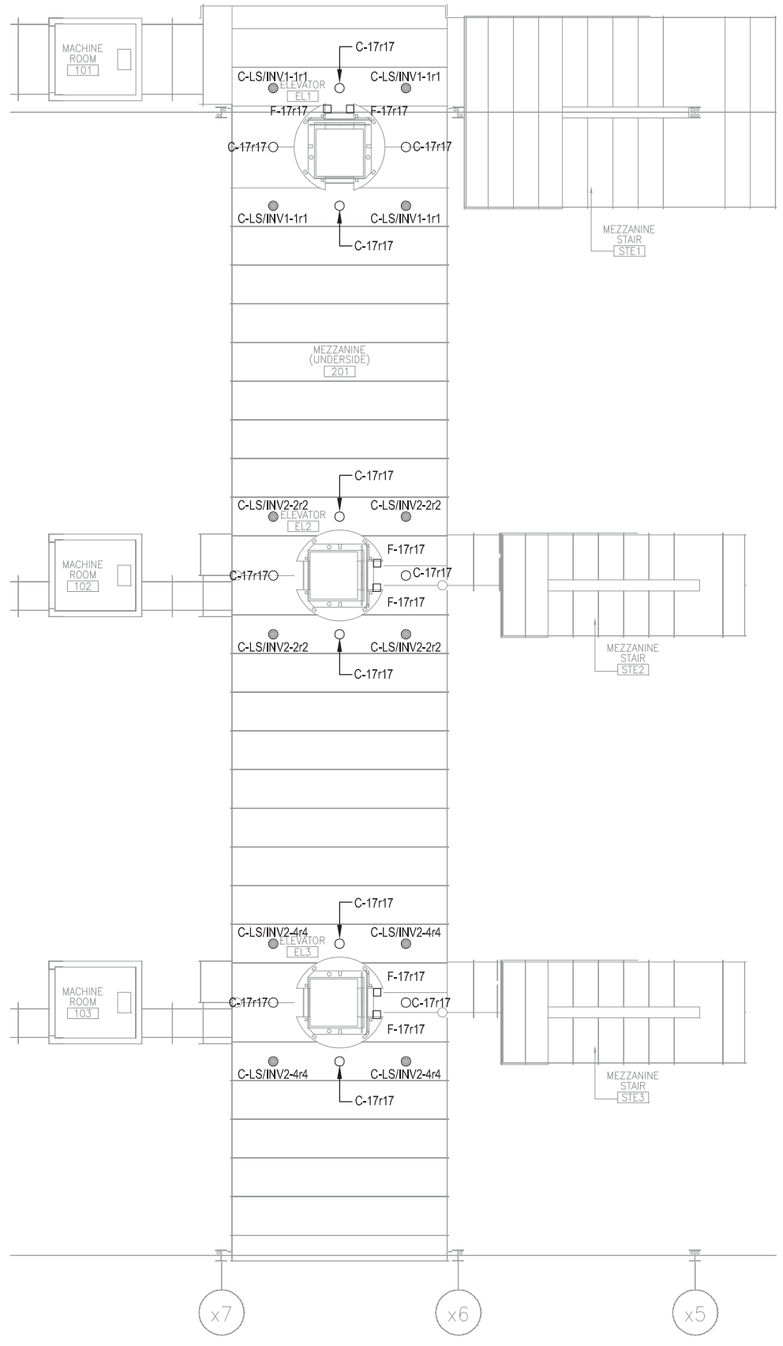
(2) INSTALL 12X12 HANDHOLE TO ALLOW FOR TERMINATION OF HEARING LOOPS A AND B WITH "STARQUAD" FEEDER CABLE (DEFINED IN HEARING LOOP SPECIAL PROVISION).

(3) RUN 2" CONDUIT FROM HANDHOLE TO HANDHOLE ON PLATFORM 1 FOR "HEARING LOOP". STARQUAD CABLE SHALL RUN THROUGH CONDUIT PATH TO DATA ROOM LOCATED IN MAIN TERMINAL (SEE SHEET E-236)

E-228

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN MEZZANINE LEVEL – POWER AND SYSTEMS PLAN	SHEET 52	E





GENERAL NOTES:

1) LIGHTING FIXTURE TYPES "X" , "L", "E" AND "C/EM " ABOVE PLATFORM 1 TO BE FED FROM EMERGENCY INVERTER PANELBOARD "LS/INV1".
2) ALL TYPE "X", "L", "E" AND "C/EM" ABOVE PLATFORM 2 & 3 TO BE FED FROM EMERGENCY INVERTER PANELBOARD "LS/INV2". ALL OTHER LIGHTING TO BE FED FROM PANELBOARD "LP/1".
3) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

(1) PROVIDE WEATHERPROOF FLUSH MOUNTED JUNCTION BOX WITH GASKETED COVER TO ACCOMMODATE FIXTURE TYPE "E" DRIVER. SEE ARCHITECTURAL SHEET A-901 FOR ADDITIONAL INFORMATION.

(2) FOR CONTINUATION OF TYPE "E" FIXTURE SEE SHEET E-213.

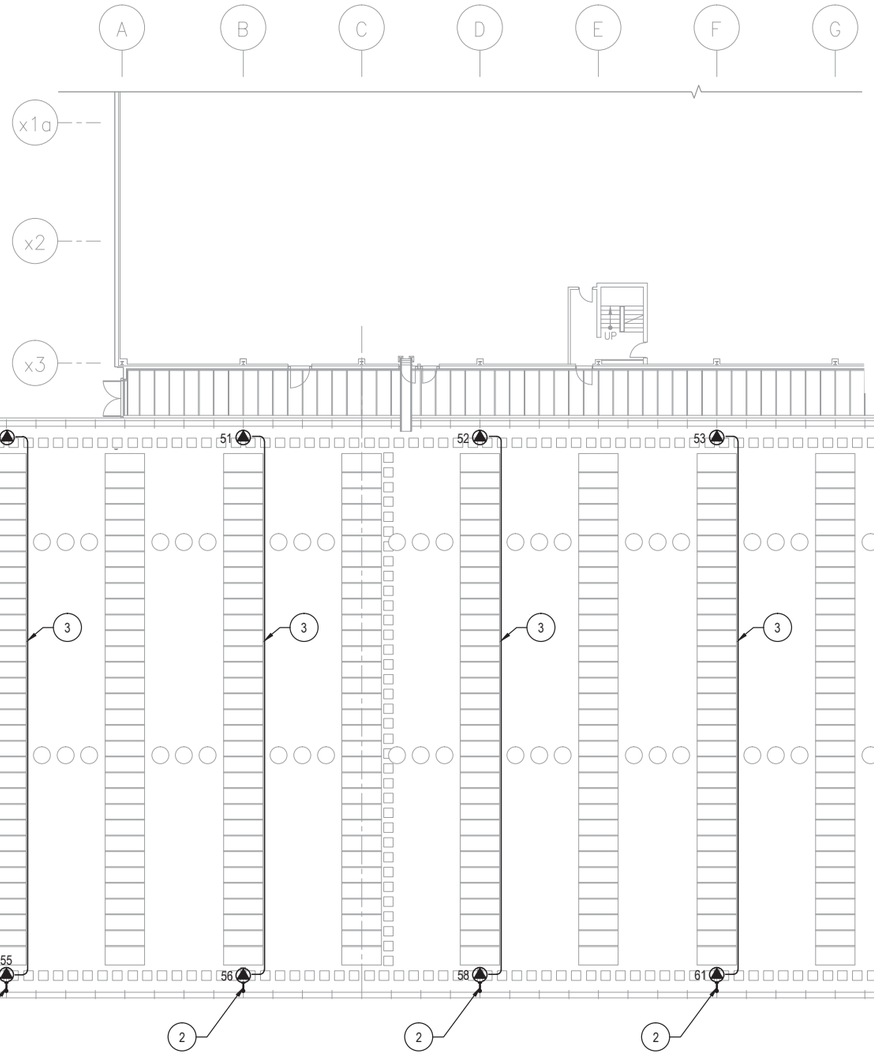
1 / E-229 MEZZANINE LEVEL – LIGHTING PLAN
1/8"=1'-0"
0 4' 8'

2 / E-229 MEZZANINE UNDERSIDE – LIGHTING PLAN
1/8"=1'-0"
0 4' 8'

E-229

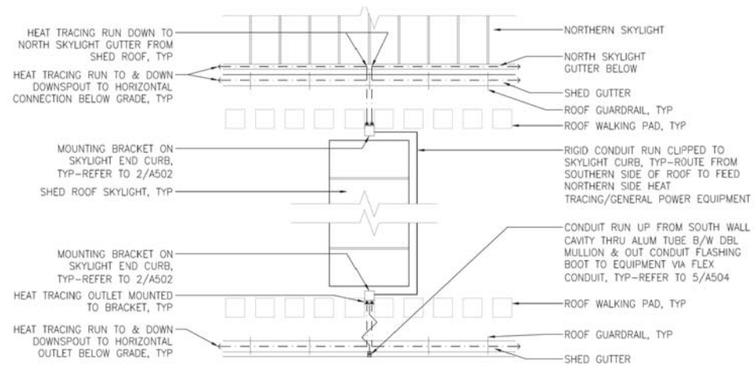
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN MEZZANINE LEVEL – LIGHTING PLAN	SHEET 53	E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E229.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____



1 E-230 ROOF LEVEL – POWER AND SYSTEMS PLAN
1/16"=1'-0"

0 8' 16'



2 E-230 HEAT TRACE CONDUIT DETAIL
NTS

GENERAL NOTES:

1) CONTRACTOR SHALL UTILIZE CONDUIT "FLASHING" FOR ALL LOCATIONS WHERE ROOF CONDUITS ENTER SOUTHERN WALL CAVITY. PROVIDE LEXCOR "FLASH-TITE" OR EQUAL.
2) SEE ARCHITECTURAL DETAIL 5/A504 FOR ADDITIONAL INFORMATION ON ROOF FLASHING.
3) WHERE REQUIRED A NON-PENETRATING CONDUIT SUPPORT SHALL BE USED. ROOF PENETRATIONS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL FROM ARCHITECT. SEE SHEET A-103 FOR ADDITIONAL INFORMATION.
4) ALL CONDUITS FROM ROOF TO MEZZANINE SHALL BE ROUTED IN CAVITY OF SOUTHERN WALL. SEE ARCHITECTURAL SHEET A901 FOR PROPOSED CONDUIT ROUTING AND OTHER INSTALLATION REQUIREMENTS. FINAL CONDUIT SIZING AS SPECIFIED AND/OR PER NEC. WHERE REQUIRED A NON-PENETRATING CONDUIT SUPPORT SHALL BE USED.
5) FOR ADDITIONAL ELECTRICAL HEAT TRACING INSTALLATION REQUIREMENTS SEE DRAWINGS A-103, A-501, A-502.
6) CONTRACTOR SHALL PROVIDE A SHOP DRAWING FOR HEAT TRACING SYSTEM MANUFACTURE'S FINAL DESIGN FOR SYSTEM THAT WILL BE PROVIDED.
7) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. PROVIDE MOUNTING FOR HEAT TRACE AND RECEPTACLE POWER. PROVIDE INSTALLATION IN ACCORDANCE WITH ARCHITECTURAL DETAIL 2/A502 AND HEAT TRACE MANUFACTURER.
2. ROUTE 1" CONDUIT FROM MEZZANINE TO ROOF. INSTALL WEATHERPROOF BOOT AS SHOWN IN DETAIL 5/A-504 WHERE CONDUIT STUBS THROUGH ROOF. CAP THE END OF CONDUIT FOR FUTURE.
3. CONDUITS SHALL ONLY PENETRATE ROOF AT SOUTH END OF STRUCTURE. FOR POWER CONNECTION AT NORTH SIDE OF ROOF BRANCH CIRCUIT CONDUITS SHALL PENETRATE ROOF AT SOUTH SIDE AND BE INSTALLED ON ROOF ALONG SKYLIGHT PER DETAIL 3/A502

2

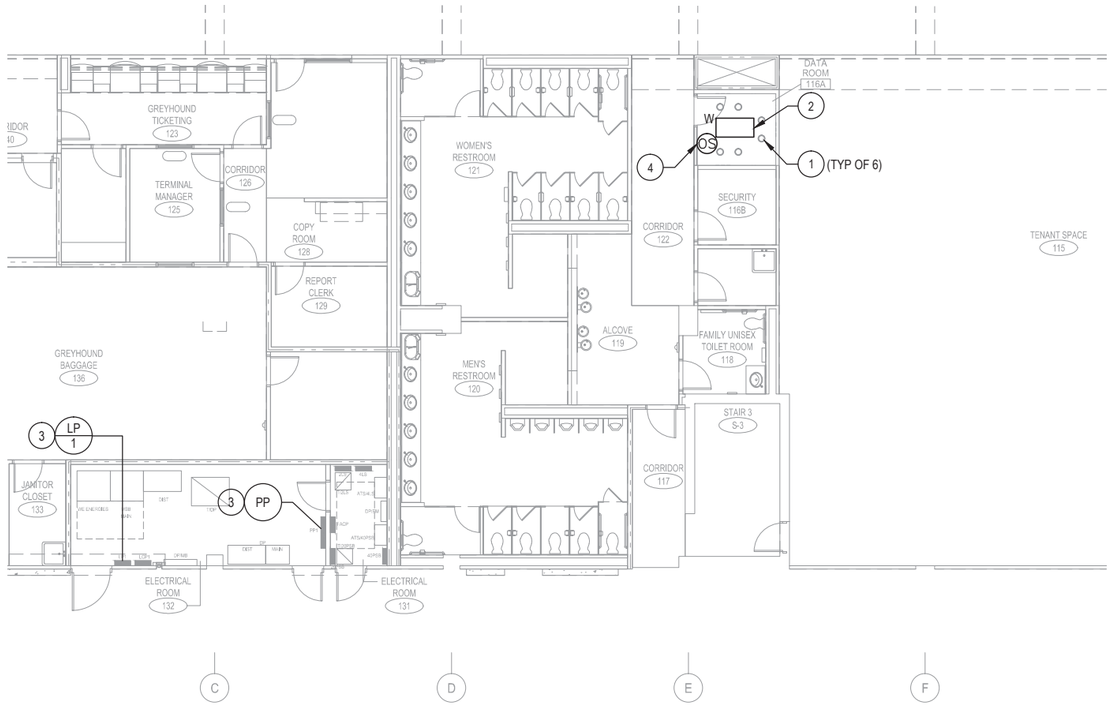
GENERAL NOTES:

1) ALL FLOOR PENETRATIONS IN DEPOT BUILDING MUST BE X-RAYED AND VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO CORING, TO PREVENT DAMAGE TO STRUCTURAL STEEL IN CONCRETE.

2) SPRINKLER HEAD LOCATED IN CENTER OF DATA ROOM TO BE REMOVED. ELECTRICAL CONTRACTOR TO COORDINATE LIGHT FIXTURE PLACEMENT WITH PLUMBING CONTRACTOR.

SHEET NOTES:

1. EXISTING DOWNLIGHTS TO REMAIN.
2. CONTRACTOR TO ADD FIXTURE TYPE "W" TO EXISTING LIGHTING CIRCUIT.
3. EXISTING ELECTRICAL PANEL TO REMAIN.
4. OCCUPANCY SENSOR WATTSTOPPER DT-300 AND BZ-150 POWER PACK OR APPROVED EQUAL BY HIGHLINE PRODUCTS. INSTALL OCCUPANCY SENSOR TO CONTROL ALL LIGHT FIXTURES IN DATA ROOM.

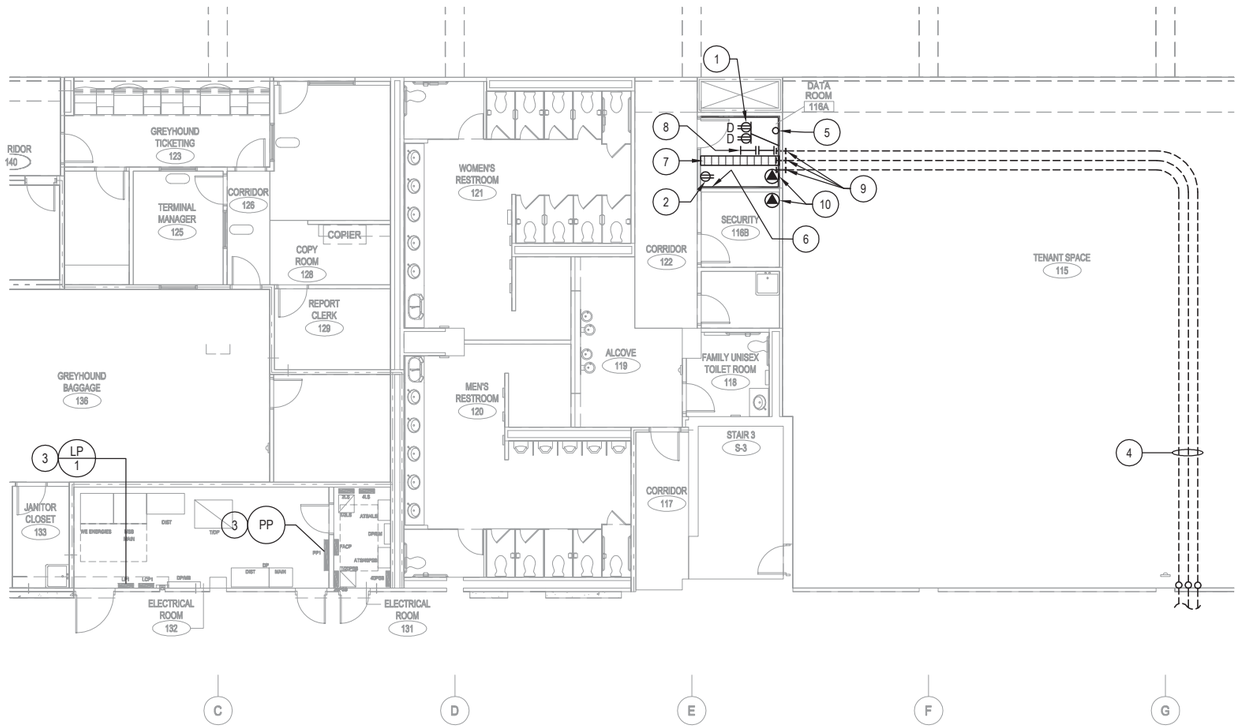


1 / E-235 PARTIAL FIST FLOOR PLAN DATA ROOM – LIGHTING
1/8"=1'-0"
0 4' 8'

N

E-235

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PARTIAL FIRST FLOOR PLAN DATA ROOM LIGHTING PLAN	SHEET 55	E



1 / E-236 PARTIAL FIST FLOOR PLAN DATA ROOM – POWER AND SYSTEMS
1/8"=1'-0"
0 4' 8'

GENERAL NOTES:

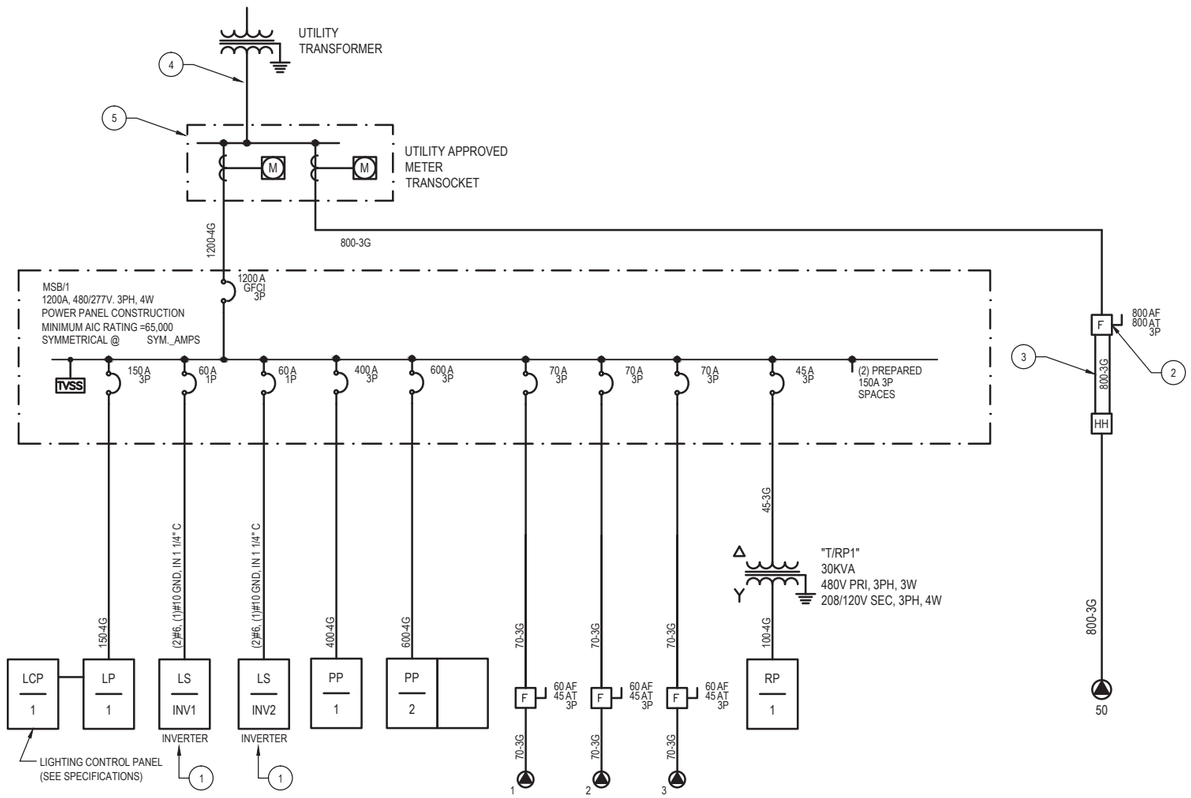
1) ALL FLOOR PENETRATIONS IN DEPOT BUILDING MUST BE X-RAYED AND VERIFIED WITH STRUCTURAL ENGINEER PRIOR TO CORING, TO PREVENT DAMAGE TO STRUCTURAL STEEL IN CONCRETE.

2) REFER TO HWA DRAWINGS FOR EXACT LOCATION OF CONTROL JOINTS, LIGHT FIXTURES, SIGNAGE AND OTHER DEVICES.

SHEET NOTES:

1. CONTRACTOR TO INSTALL TWO DEDICATED, DUPLEX RECEPTACLES FOR DATA EQUIPMENT. RECEPTACLE TO BE FED FROM PANEL "PP" LOCATED IN ELECTRICAL ROOM 132.
2. CONTRACTOR TO INSTALL GENERAL PURPOSE RECEPTACLE TO BE FED FROM RECEPTACLE CIRCUIT IN CORRIDOR.
3. EXISTING ELECTRICAL PANEL TO REMAIN.
4. PROVIDE (3) 4" CONDUITS FROM PLATFORM 1 HANDHOLE TO DATA ROOM 116A. SEE SHEET E-224 FOR CONTINUATION. (1) 4" PVC CONDUIT IS FOR HEARING LOOP CABLE.
5. PROVIDE ONE 2" CONDUIT TO THIRD FLOOR COMPUTER ROOM.
   APPROXIMATELY 150 FEET FROM THIS POINT. RUN (6) CAT 6 CABLES AND TERMINATE ON DESIGNATED PANEL.
   CONTRACTOR TO FIELD VERIFY ROUTE TO THIRD FLOOR.
6. PROVIDE 3/4" PLYWOOD PAINTED WITH FIRE RETARDANT PAINT.
7. PROVIDE 12" WIDE CABLE TRAY.
8. INSTALL 19" DATA RACK PROVIDED BY OTHERS.
9. INSTALL THREE 4" SLEEVES THROUGH DATA ROOM WALL.
10. CONNECT POWER CORD FROM ACCU-1 AND ACCU -2, LOCATED ON ROOF, TO AC-1 AND AC-2 LOCATED IN DATA AND SECURITY ROOM. CORD PROVIDED BY HVAC MANUFACTURER.

2



1 E-400 ONE LINE DIAGRAM
NO SCALE

FEEDER SCHEDULE

FEEDER AMPACITY	CONDUCTOR SIZE (kcmil)		CONDUIT SIZE	
	PH AND N	GRD	(3) AND (3G)	(4) AND (4G)
50	#8	#10	3/4"	1"
70	#4	#8	1-1/4"	1-1/4"
80	#4	#8	1-1/4"	1-1/4"
100	#3	#8	1-1/4"	1-1/4"
110	#2	#6	1-1/4"	1-1/2"
125	#1	#6	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
200	#3/0	#6	2"	2-1/2"
225	#4/0	#4	2"	2-1/2"
250	#250	#4	2-1/2"	3"
300	#350	#4	3"	3"
350	#500	#3	3"	3-1/2"
380	#500	#3	3"	3-1/2"
400	(2) #3/0	(2) #3	(2) 2"	(2) 2-1/2"
450	(2) #4/0	(2) #2	(2) 2"	(2) 2-1/2"
500	(2) #250	(2) #2	(2) 2-1/2"	(2) 3"
600	(2) #350	(2) #1	(2) 3"	(2) 3"
700	(2) #500	(2) #1/0	(2) 3"	(2) 3-1/2"
800	(2) #600	(2) #1/0	(2) 3-1/2"	(2) 4"
1000	(3) #400	(3) #2/0	(3) 3"	(3) 3-1/2"
1200	(3) 600	(3) #3/0	(3) 3-1/2"	(3) 4"
1600	(4) 600	(4) #4/0	(4) 3-1/2"	(4) 4"
2000	(5) 600	(5) #250	(5) 3-1/2"	(5) 4"

GENERAL NOTES:

1. ALL EQUIPMENT SHALL BE NEMA 3R UNLESSED NOTED DIFFERENTLY ON DRAWINGS OR SPECIFICATION. CONTACT ENGINEER WITH DISCREPANCIES.
2. SHORT CIRCUIT/COORDINATION/ARC FLASH STUDY MUST BE PERFORMED AND SUBMITTED PRIOR TO SUBMITTAL OF POWER EQUIPMENT SHOP DRAWINGS.

SHEET NOTES:

1. EMERGENCY EGRESS PANELBOARD LOCATED WITHIN LIGHTING INVERTER. FOR MORE INFORMATION SEE SPECIFICATIONS.
2. LOCATE SERVICE ENTRACE RATED FUSIBLE DISCONNECT NEAR NEW TRANSOCKET ON SOUTH SIDE OF RAIL ROAD TRACKS. PROVIDE FUSIBLE DISCONNECT WITH DUAL LUGS FOR FUTURE 800A CONNECTION ON PLATFORM 3.
3. PROVIDE (2) 3-1/2" SCH 80 PVC EMPTY CONDUITS WITH PULL STRINGS AND TRACER CABLES.
4. COORDINATE FINAL SERVICE REQUIREMENTS WITH WE-ENERGIES INCLUDING THE AVAILABLE SHORT CIRCUIT AT THE SERVICE ENTRANCE. PROVIDE ALL EQUIPMENT AND CONSTRUCTION AS INDICATED IN WE-ENERGIES SERVICE MANUALS.
5. SEE DETAIL 1/E802 FOR GENERAL FREE STANDING TRANSOCKET CONFIGURATION. COORDINATE FINAL EQUIPMENT AND CONNECTIONS REQUIREMENTS WITH WE-ENERGIES.

GENERAL NOTES:

1. ABOVE FEEDER SCHEDULE IS SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
2. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF NEC FOR COPPER CONDUCTOR TYPE THW / THWN.
3. FEEDER SIZES SHOWN ON RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR DERATING FACTORS REQUIRED BY CODE AND / OR ARE OVERSIZED FOR VOLTAGE DROP.

200 - 4G
- 200 — FEEDER DESIGNATION
- 4G — SYSTEM DESCRIPTION
  - (3) 3PH, 3W
  - (3G) 3PH, 3W + GROUND
  - (4) 3PH, 4W
  - (4G) 3PH, 4W + GROUND
- CONDUCTOR AMPACITY (SEE FEEDER SCHEDULE)

LIGHTING FIXTURE SCHEDULE - PREPARED BY KUGLER-NING LIGHTING DESIGN

NOTES:

1. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND ALSO VERIFY FIXTURE MOUNTING COMPATIBILITY WITH WALL SURFACE.
2. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION.
3. FIXTURE TO BE UL LISTED FOR DAMP LOCATIONS.
4. FINISHES TO BE VERIFIED BY ARCHITECT.
5. CONTRACTOR TO INSTALL FIXTURES PER ARCHITECT'S DETAIL DRAWINGS WHEN APPLICABLE TO ENSURE A COMPLETE INSTALLATION.
6. MANUFACTURER TO PROVIDE SHOP DRAWINGS PRIOR TO FIXTURE APPROVAL.

FIXT. TAG	MANUFACTURER AND CATALOG NUMBER	LAMP & SUPPLY VOLTAGE	FINISH	TRIM	REMARKS
A	ELLIPTIPAR LIGHTING M-154-(2)315C-MOUNTING-02-VOLTAGE-00-0 NOTE: FIXTURE SHALL CONTAIN (2) 315 W LAMPS ALTERNATES: WINONA LIGHTING - WINDIRECT HID LARGE WALL MOUNT P2-LS-MODIFIED FOR (2) 315W T9 LAMPS-V-LS4-SGW-X-MOD SPI LIGHTING EEW 135816-MODIFIED FOR (2) 315W T9 LAMPS	(2) CDM ELITE MW 315/T9/942/U/E (PHILIPS LIGHTING) COLOR TEMP: 4200K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	N/A	SURFACE MOUNTED DUAL CIRCUITED 2-LAMP CERAMIC METAL HALIDE UPLIGHT WITH INTEGRAL ELECTRONIC BALLAST. HOUSING IS EXTRUDED ALUMINUM; NOMINALLY 16-1/4" D X 9-5/16"" H X 25-15/15" W (FOR TWO LAMPS). MANUFACTURER TO PROVIDE TEMPERED GLASS LENS AND CUT OFF VISOR. ARCHITECT TO SPECIFY FINISH. BOTTOM OF FIXTURE SHALL BE MOUNTED AT 35'-0" A.F.F. FIXTURE SHALL BE MOUNTED WITH L SHAPED MOUNTING FEET ATTACHED TO UNDER SIDE OF ARMS. FIXTURE SHALL BE UL LISTED FOR WET LOCATION. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND VERIFY FIXTURE MOUNTING COMPATIBILITY WITH WALL SURFACE. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION.
C	EDISON PRICE LIGHTING ARCT4/4-39-VOLTAGE-ECOL-NDMODIFIED FOR INSTALLATION IN METAL CEILING ALTERNATES: KURT VERSEN R4404-P-SC-V-MODIFIED FOR INSTALLATION IN METAL CEILING AMERLUX RD4-39-T4-E-SD-C-V-NFMODIFIED FOR INSTALLATION IN METAL CEILING	(1) CDM35/TC/842 (PHILIPS LIGHTING) COLOR TEMP: 4200K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	OVERLAP	RECESS MOUNTED T4 CERAMIC METAL HALIDE DOWNLIGHT WITH INTEGRAL ELECTRONIC BALLAST; FIXTURE IS MODIFIED FOR INSTALLATION IN METAL CEILING. HOUSING IS NOMINALLY 18- 1/4" L X 11-5/8" W X 8" H WITH 4" DIAMETER APERTURE AND 3/4" W TRIM PLATE. MANUFACTURER TO PROVIDE NARROW DISTRIBUTION SETTING AND PROTECTIVE GLASS LENS. OVERLAP FLANGE FINISH IN EASYTONE CLEAR TO BE VERIFIED BY ARCHITECT. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATIONS. CONTRACTOR TO VERIFY TRIM/HOUSING COMPATIBILITY WITH CEILING TYPE AND THICKNESS. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION. *TYPE KC/EM SHALL BE ON EMERGENCY CIRCUIT AS NOTED IN THE DWG A-303. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.
D	ELLIPTIPAR LIGHTING F-301-140-S-00-VOLTAGE-0E-0 ALTERNATES: WINONA LIGHTING - WINDIRECT SMALL COVE FLUORESCENT P1-SC-1-60"-T8-V-SCVU-RA-X-STD PINNACLE LIGHTING C105-1T8-MOD 5' SECTION-V-1C-N	(1) F40T8/TL841/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	N/A	SURFACE MOUNTED LINEAR FORWARD THROW OPTIC FLUORESCENT FIXTURE WITH REMOTE ELECTRONIC BALLAST. HOUSING IS CONSTRUCTED OF ALUMINUM; NOMINALLY 2- 5/16" W X 4-3/4" H X 60" L. ARCHITECT TO SPECIFY FINISH. FIXTURES SHALL BE MOUNTED TO UNDERSIDE OF SIGNAGE KIOSKS; PER ARCHITECT'S DETAIL DRAWINGS AND PROVIDE EM AND NIGHT LIGHTING FOR THE TRAIN PLATFORM. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATION. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND ALSO VERIFY FIXTURE MOUNTING COMPATIBILITY WITH SIGNAGE SURFACE. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION. CONTRACTOR TO INSTALL FIXTURES PER ARCHITECT'S DETAIL DRAWINGS TO ENSURE A COMPLETE INSTALLATION. NOTE: FIXTURES SHALL ONLY BE ON DURING "NIGHT-TIME / AFTER HOURS" SETTINGS AS THEY ARE NOT NEED DURING NORMAL HOURS OF OPERATION AND MAY CAUSE GLARE.
E	IO LIGHTING - LUXRAIL 0-06-FINISH-1-WM-NR-65-5KHOLENGTH- VOLTS ADVANCE DRIVER (POWER SUPPLY) IS REMOTE. ALTERNATES: INTENSE LIGHTING IVR-2-ST-W-RAIL HEIGHT-HO-40- FINISH-VOLTS WAGNER COMPANIES LUMENRAIL-GR2166.4-MODIFIED SO THAT LEDS SIT UP INSIDE OR FLUSH TO BOTTOM OF RAIL .	7.6W / LIN. FT. COOL WHITE 5000K HIGH OUTPUT LEDS PROVIDED BY MANUFACTURER E.E. TO VERIFY VOLTAGE	ARCHITECT TO SPECIFY	N/A	WALL MOUNTED HANDRAIL WITH INTEGRAL LOW VOLTAGE LED STRIP. HOUSING IS ALUMINUM, NOMINALLY 1.66" IN DIAMETER; LENGTH OF RAILS TO BE DETERMINED BY CONTRACTOR IN CONJUNCTION WITH ARCHITECTS DRAWINGS. MANUFACTURER TO PROVIDE 65° BEAM ANGLE. MANUFACTURER SHALL ENSURE THAT LED AND LED DIODES ARE COLOR MATCHED TO THE HIGHEST LEVEL OF ACCURACY (+/- 100K). LED STRIP FIXTURES ARE POWERED BY REMOTE DRIVER(S). CONTRACTOR TO PROVIDE RAIL LENGTH(S) AS REQUIRED FOR CONTINUOUS LIGHT FOR ENTIRE LENGTH OF RUN AND TO COORDINATE SIZE(S), QUANTITY AND LOCATION OF FEED(S) AND DRIVER(S). ARCHITECT TO SPECIFY FINISH. MANUFACTURER'S SHOP DRAWINGS ARE REQUIRED PRIOR TO FIXTURE APPROVAL. INSTALLATION NOTES: 1 - CONTRACTOR TO COORDINATE FEED LOCATION WITH DRIVER LOCATION AND CONNECTION TO POWER. CONTRACTOR TO ORDER DRIVER ENCLOSURE FOR EXTERIOR. 2 - POWER SUPPLY(S) TO BE LOCATED IN ACCESSIBLE, VENTILATED LOCATIONS, AS COORDINATED WITH THE ARCHITECT. CONTRACTOR TO FURNISH NEMA APPROVED ENCLOSURE(S), AS REQUIRED. 3 - FIXTURE MANUFACTURER TO DETERMINE REQUIRED WIRE SIZE BETWEEN LED STRIP CONNECTION AND DRIVER, AND TO ASSURE THAT VOLTAGE DROP DOES NOT EXCEED ALLOWABLE LIMITS. 4 - CONTRACTOR TO VERIFY MOUNTING TYPE WITH ARCHITECT AND ORDER ALL REQUIRED ACCESSORY PARTS FOR A COMPLETE INSTALLATION. * ALL TYPE KE SHALL BE ON EMERGENCY CIRCUIT. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.
F	BEGA 2287P ALTERNATES: **LUMENTON** **SL690-PL13-VOLTS-FINISH** **HYDREL** **4453-A-13DTT-VOLTS-DNA**	(1) PL-C 13W/841/USA/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	OVERLAP	WALL RECESSED COMPACT FLUORESCENT STEP LIGHT WITH INTEGRAL MAGNETIC BALLAST. HOUSING IS DIE-CAST AND EXTRUDED ALUMINUM, NOMINALLY 2-5/8" H X 11-7/8" L X 4-1/4" D. FACEPLATE IS OVERLAP, ARCHITECT TO SPECIFY FINISH. FIXTURE TO BE INSTALLED IN ELEVATOR WALLS; CONTRACTOR TO LOCATE PER ARCHITECTURAL PLANS AND DETAILS. ARCHITECT TO SPECIFY MOUNTING HEIGHT. FIXTURE SHALL BE UL LISTED FOR WET LOCATIONS. INSTALLATION NOTE: 1 - ARCHITECT TO SPECIFY MOUNTING HEIGHT AFF. FIXTURE CAN NOT BE MOUNTED BELOW 3'-0" OF THE GROUND.
G	BOCA FLASHER HPNFLS-HO2-4100K-L-LINE VOLTAGE- 24' BEAM SPREAD ALTERNATES: COLOR KINETICS EW GRAZE POWERCORE-4000K-30° X 60°-V-L-ACCESSORIES INSIGHT LIGHTING TEL 12-40K-30°-CVS-UP-L-V-TWD	12W / LIN. FT. COOL WHITE 4100K LEDS TO BE PROVIDED BY MANUFACTURER EE. TO VERIFY VOLTAGE	N/A	N/A	SURFACE MOUNTED LINE VOLTAGE HIGH OUTPUT 4100K LED LIGHT STRIP WITH 24' BEAM DISTRIBUTION. HOUSING IS ANODIZED ALUMINUM; NOMINALLY 1.5" W X 1.6" H (NOT INCLUDING ADJUSTABLE MOUNTING BRACKET) X LENGTH, TO BE DETERMINED BY CONTRACTOR IN CONJUNCTION WITH ARCHITECT'S DRAWINGS. FIXTURE SHALL BE 12W / LINEAR FOOT AND SHALL BE UL LISTED FOR WET LOCATION. CONTRACTOR SHALL COORDINATE ALL MOUNTING & ELECTRICAL REQUIREMENTS (LEADS, CONNECTIONS TO POWER, CABLES, ETC.) WITH MANUFACTURER TO ENSURE A COMPLETE INSTALLATION. FIXTURES SHALL BE INSTALLED IN WALL GRAZING APPLICATION PER ARCHITECT'S DETAIL DRAWING AND RUN END-TO-END TO WITHIN 6" OF THE END OF THE ARCHITECTURAL RUN (NO DARK SPOTS). MANUFACTURER SHALL ENSURE THAT LED AND LED DIODES ARE COLOR MATCHED TO THE HIGHEST LEVEL OF ACCURACY (+/- 100K). CONTRACTOR TO INSTALL FIXTURE PER ARCHITECT'S DETAIL DRAWING TO ENSURE A COMPLETE AND ACCEPTABLE INSTALLATION. MANUFACTURER TO PROVIDE SHOP DRAWINGS PRIOR TO FIXTURE APPROVAL.
J	KIM LIGHTING HEAD: FM-WTH1-150PMH VOLTAGE-FINISH POLE: PRA14-5125-FM-FINISH ALTERNATES: ARCHITECTURAL AREA LIGHTING SL VT-H2 MODIFIED FOR TYPE I DISTRIBUTION-150PSMHT6- FINISH-POLE MOUNT LITHONIA LIGHTING MRP-150MHC-SR2 MODIFIED FOR TYPE I DISTRIBUTIONVOLTS- MRPF5 POLE MOUNT	(1) MHC150/U/M/4K/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K E.E. TO VERIFY VOLTAGE	ARCHITECT TO SPECIFY	N/A	FLUSH MOUNTED PULSE START METAL HALIDE POLE LIGHT WITH INTEGRAL MAGNETIC BALLAST. POLE HEAD IS SPUN ALUMINUM, NOMINALLY 21" DIA. X 10" H WITH (3) EQUALLY SPACED 1/2" X 8-1/2" H RIBS MOUNTED INTO 5" O.D EXTRUDED ALUMINUM POLE. MANUFACTURER TO PROVIDE TYPE I LIGHT DISTRIBUTION AND CLEAR TEMPERED GLASS LENS. REFLECTOR IS SPECULAR ALZAK. POLE HEIGHT SHALL BE 14'-0"H X 5"DIA. ARCHITECT TO SPECIFY STANDARD PAINT FINISH FOR BOTH POLE AND HEAD. FIXTURE IS UL LISTED FOR WET LOCATIONS. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND VERIFY FIXTURE MOUNTING COMPATIBILITY WITH FLOOR SURFACE. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION. * TYPE KJ/EM SHALL BE ON EMERGENCY CIRCUIT AS NOTED IN DWG A-101. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.

LIGHTING FIXTURE SCHEDULE CONTINUED - PREPARED BY KUGLER-NING LIGHTING DESIGN

NOTES:

1. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND ALSO VERIFY FIXTURE MOUNTING COMPATIBILITY WITH WALL SURFACE.
2. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION.
3. FIXTURE TO BE UL LISTED FOR DAMP LOCATIONS.
4. FINISHES TO BE VERIFIED BY ARCHITECT.
5. CONTRACTOR TO INSTALL FIXTURES PER ARCHITECT'S DETAIL DRAWINGS WHEN APPLICABLE TO ENSURE A COMPLETE INSTALLATION.
6. MANUFACTURER TO PROVIDE SHOP DRAWINGS PRIOR TO FIXTURE APPROVAL.

FIXT. TAG	MANUFACTURER AND CATALOG NUMBER	LAMP & SUPPLY VOLTAGE	FINISH	TRIM	REMARKS
L	BIRCHWOOD LIGHTING-ACC-VOLTAGE-EB-154-FEED POINT-FINISH ALTERNATES: PARAMOUNT LIGHTING C2-1-54T5H-2-E0-S3-EM-T3- VOLTS KENALL LIGHTING FES3-48-1-54-RS-1-VOLTS-B204SAC- IP65-TR	(1) F54T5/841/HO/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K E.E. TO VERIFY VOLTAGE	ARCHITECT TO SPECIFY	N/A	SURFACE MOUNTED T5HO FLUORESCENT STRIP WITH INTEGRAL ELECTRONIC BALLAST. HOUSING STEEL, NOMINALLY 2-1/2" W X 3- 7/8" H X 47-1/8" L. END CAPS ARE MILLED ALUMINUM. MANUFACTURER TO PROVIDE SMOOTH CLEAR ACRYLIC LENS. ARCHITECT TO SPECIFY FINISH. FIXTURES TO BE MOUNTED TO TOP OF ELEVATOR TOWER AT MEZZANINE LEVEL. SEE ARCHITECTURAL DRAWINGS/DETAILS FOR EXACT LOCATIONS. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND VERIFY FIXTURE MOUNTING COMPATIBILITY WITH ELEVATOR TOWER STRUCTURE. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION. * ALL TYPE KL SHALL BE ON EMERGENCY CIRCUIT. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.
N	KENALL LIGHTING MLHA8-24-F-MW-PP-1-24-RS-1-V-OPTIONS-ACCESSORIES ALTERNATES: EXCELINE: P-VN-0-2-24-VOLTS-K2Y-W LAMAR LIGHTING: V-W-2-24-H5-VOLTS-GSK-TP	(2) F17T8/TL**841**/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	NA	SURFACE MOUNTED LINEAR FLUORESCENT TAMPER RESISTANT DOWNLIGHT. FIXTURE IS CONSTRUCTED OF 18 GAUGE ALUMINUM;NOMINALLY 8"W X 4"D X 24.9" L. ARCHITECT TO SPECIFY FINISH. MANUFACTURER TO PROVIDE U.V. STABILIZED, HIGH IMPACT PEARLESCENT ACRYLIC LENS. FIXTURE SHALL BE UL LISTED FOR DAMP LOCATION. FIXTURE SHALL BE MOUNTED AT HEIGHT AFF AS SPECIFIED BY ARCHITECT. CONTRACTOR TO COORDINATE CONNECTION TO POWER, FEED LOCATIONS AND ALSO VERIFY FIXTURE MOUNTING COMPATIBILITY WITH CEILING SURFACE. CONTRACTOR TO ORDER ALL NECESSARY MOUNTING AND ELECTRICAL HARDWARE TO ENSURE A COMPLETE INSTALLATION.* ALL TYPE KN SHALL BE ON EMERGENCY CIRCUIT. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.
P	KIM LIGHTING HEAD: FM-WTH2-150PMH VOLTAGE-FINISH POLE: PRA14-5125-FM-FINISH ALTERNATES: ARCHITECTURAL AREA LIGHTING SL VT-H2-150PSMHT6-FINISHPOLE MOUNT LITHONIA LIGHTING MRP-150MHC-SR2-VOLTS-MRPF5 POLE MOUNT	(1) MHC150/U/M/4K/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K E.E. TO VERIFY VOLTAGE	ARCHITECT TO SPECIFY	NA	SAME AS J EXCEPT MANUFACTURER TO PROVIDE TYPE 2 LIGHT DISTRIBUTION. CONTRACTOR TO VERIFY LUMINAIRE POLE TOP COMPATIBILITY WITH POLE. * TYPE KP/EM SHALL BE ON EMERGENCY CIRCUIT AS NOTED IN DWG A-101. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.
S	BEGA 2277P ALTERNATES: NULITE RS142-120-FS4 WE EF LIGHTING QR 1304-616-2330	(1) PL-T 42W/841/4P/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K E.E. TO VERIFY VOLTAGE.	ARCHITECT TO SPECIFY	OVERLAP	WALL RECESSED COMPACT FLUORESCENT LUMINAIRE WITH INTEGRAL ELECTRONIC BALLAST. HOUSING IS DIE-CAST ALUMINUM, NOMINALLY 9" W X 9-7/8" H X 6-5/8" D. FACEPLATE IS DIE-CAST ALUMINUM WITH CLEAR TEMPERED GLASS LENS. FIXTURE IS UL LISTED FOR WET LOCATIONS. ARCHITECT TO SPECIFY FINISH. FIXTURE SHALL ONLY BE USED IN EMERGENCY SITUATIONS. * ALL TYPE KS SHALL BE ON EMERGENCY CIRCUIT. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE. INSTALLATION NOTES: 1 - ARCHITECT TO VERIFY MOUNTING HEIGHT A.F.F. FIXTURE CAN NOT BE MOUNTED BELOW 3'-0" OF THE GROUND.
T	BEGA 2287P-FINISH ALTERNATES: LUMENTON SL690-PL13-VOLTS-FINISH HYDREL 4453-A-13DTT-VOLTS-DNA	(1) PL-C 13W/841/USA/ALTO (PHILIPS LIGHTING) COLOR TEMP: 4100K EE TO VERIFY VOLTS	ARCHITECT TO SPECIFY	OVERLAP	SAME AS F EXCEPT FIXTURE SHALL ONLY BE USED IN EMERGENCY SITUATIONS. ALL TYPE KT SHALL BE ON EMERGENCY CIRCUIT. ALL EMERGENCY REQUIREMENTS SHALL BE COORDINATED BY EE.

LIGHTING FIXTURE SCHEDULE - PREPARED BY GRAEF

FIXT. TAG	MANUFACTURER AND CATALOG NUMBER	LAMP & SUPPLY VOLTAGE	FINISH	TRIM	REMARKS
X	DUAL-LITE SEWLSGW4X EVENLITE SURE-LITES ALTERNATES: CDW EMG1 WWCT UX71 GWH	(1) LED 277V	NA	N/A	* DIRECTIONAL ARROWS SHALL BE COORDINATED WITH ARCHITECT. PROVIDE WHITE SIGN WITH GREEN LETTERING.
X2	DUAL-LITE SEWLDGW4X EVENLITE SURE-LITES ALTERNATES: CDW EMG2 WWCT UX70 GWH UXUK	(1) LED 277V	NA	N/A	* DIRECTIONAL ARROWS SHALL BE COORDINATED WITH ARCHITECT. PROVIDE WHITE SIGN WITH GREEN LETTERING.
V	LITHONIA LESW1R120/277VRCUSTOM EVENLITE DUAL-LITE ALTERNATES: SENTRY SERIES SE SERIES	(1) LED 277V	NA	N/A	* SIGN TO HAVE CUSTOM GRAPHICAL ELEVATOR DISPLAY AS SHOWN IN DETAIL 3/A-705.
W	LITHONIA 2GT8-F-3-32-A12-MVOLT-1/3-GEB10RS METALUX COLUMBIA ALTERNATES: 2GC8332A125 4PS24332GFSA123EP	(3) 32W T8	NA	N/A	* RECESSED 2X4 FIXTURE TO BE CONNECTED TO EXISTING LIGHTING CIRCUIT.

LIGHTING CONTROL PANEL "LCP/1" SCHEDULE

RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE	RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE
		SWITCH STATION	SWITCH DES				SWITCH STATION	SWITCH DES	
1	LP/1-1	N/A	N/A	1	21	LP/1-21	N/A	N/A	3
3	LP/1-3	N/A	N/A	1	23	LP/1-23	N/A	N/A	3
5	LP/1-5	N/A	N/A	1					
7	LP/1-7	A	A	2					
9	LP/1-9	N/A	N/A	1					
11	LP/1-11	A	A	2					
13	LP/1-13	N/A	N/A	1					
15	LP/1-15	A	A	2					
17	LP/1-17	A	A	2					
19	LP/1-19	N/A	N/A	3					

LIGHTING CONTROL PANEL NOTES:

1. CONTROLLED VIA TIMECLOCK. "ON" AT DUSK, "OFF" AT MIDNIGHT.
2. RELAY TO BE CONTROLLED VIA LOW VOLTAGE SWITCH "A" IN AMTRAK OFFICE LOCATED IN DEPOT BUILDING. PROVIDE WIRING AND SWITCH FOR RELAY CONTROL. COORDINATE FINAL LOCATION WITH AMTRAK STATION MASTER.
3. FIXTURES LOCATED UNDER US POSTAL SERVICE BUILDING TO REMAIN "ON" 24 HOURS A DAY. PROGRAM RELAY TO PROVIDE A MINIMUM OF 15 MINUTES OFF EACH WEEK TO ACCOMMODATE MANUFACTURER'S LAMP OPERATION RECOMMENDATIONS.

LIGHTING CONTROL PANEL "LCP/LS1" SCHEDULE

RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE	RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE
		SWITCH STATION	SWITCH DES				SWITCH STATION	SWITCH DES	
1	LS/INV1-1	N/A	N/A	1,2	2	LS/INV1-2	N/A	N/A	1,2
3	LS/INV1-6	N/A	N/A	1,2					

LIGHTING CONTROL PANEL NOTES:

1. CONTROLLED VIA TIMECLOCK. "ON" AT DUSK, "OFF" AT DAWN.
2. LIGHTING CONTROL PANEL SHALL BE UL 924 RATED, WITH AUTOMATIC TRANSFER TO "ON" WHEN NORMAL POWER IS LOST.

LIGHTING CONTROL PANEL "LCP/LS2" SCHEDULE

RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE	RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY		NOTE
		SWITCH STATION	SWITCH DES				SWITCH STATION	SWITCH DES	
1	LS/INV2-5	N/A	N/A	1,2	2	LS/INV2-2	N/A	N/A	1,2
					4	LS/INV2-4	N/A	N/A	1,2

LIGHTING CONTROL PANEL NOTES:

1. CONTROLLED VIA TIMECLOCK. "ON" AT DUSK, "OFF" AT DAWN.
2. LIGHTING CONTROL PANEL SHALL BE UL 924 RATED, WITH AUTOMATIC TRANSFER TO "ON" WHEN NORMAL POWER IS LOST.

INVERTER "LS/INV1" PANEL SCHEDULE

CKT #	DESCRIPTION	LOAD VA	LOAD VA	DESCRIPTION	CKT #
1	MEZZANINE PLATFORM #1 EGRESS	1810	1595	PLATFORM #1 EGRESS WEST	2
3	PLATFORM #2 EGRESS EAST	925	1620	PLATFORM #1 EGRESS EAST	4
5	EXIT LIGHTING PLATFORM #1	50	2325	PLATFORM #2 EGRESS WEST	6
7	EXIT LIGHTING PLATFORM #2	60		SPARE	8
9	SPARE			SPARE	10
11	SPARE			SPARE	12
13	SPARE			SPARE	14
15	SPARE			SPARE	16
17	SPARE			SPARE	18
19	SPARE			SPARE	20

INVERTER "LS/INV2" PANEL SCHEDULE

CKT #	DESCRIPTION	LOAD VA	LOAD VA	DESCRIPTION	CKT #
1	TUNNEL EGRESS LIGHTING	1250	1760	MEZZANINE PLATFORM #2 EGRESS	2
3	EXIT LIGHTING TUNNEL	10	1760	MEZZANINE PLATFORM #3 EGRESS	4
5	PLATFORM #3 EGRESS WEST	2325	65	EXIT LIGHTING PLATFORM #3	6
7	PLATFORM #3 EGRESS EAST	925	500	FIRE ALARM CONTROL PANEL	8
9	SPARE			SPARE	10
11	SPARE			SPARE	12
13	SPARE			SPARE	14
15	SPARE			SPARE	16
17	SPARE			SPARE	18
19	SPARE			SPARE	20

MOTOR STARTER / WIRING SCHEDULE

NOTES:

1. ALL COMBINATION STARTERS SHALL BE CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED.
2. PROVIDE A DISCONNECT SWITCH FOR ALL MOTORS LOCATED IN SIGHT OF MOTOR.

#	HP	VOLT	PH	LOC (RM)	DRIVING	FEED FROM		BREAKER		BRANCH WIRING				STARTER														MOTOR DISCONNECT												ACCESSORIES NEAR EQUIPMENT WIRED TO STARTER					STARTER/UNIT CONTROL			SEE NOTES	#
														TYPE						FURNISHED BY			ACCESSORIES ON STARTER							TYPE						FURNISHED BY															
						PANEL	CKT	SIZE	POLE	#	SIZE	GND	COND	INTEGRAL TO UNIT	MANUAL	COMBINATION, MAGNETIC, FULL VOLTAGE NON-REVERSING	MAGNETIC, FULL VOLTAGE REVERSING	VFD	SOLID STATE REDUCED VOLTAGE	TWO SPEED, 1 WINDING	TWO SPEED, 2 WINDING	EQUIPMENT MANUFACTURER	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ON-OFF, PUSHBUTTON	ON-OFF, SWITCH	HAND-OFF-AUTO	PILOT LIGHT	PHASE LOSS PROTECTION	NEMA STARTER SIZE	INTEGRAL TO UNIT	NOT REQUIRED	NON-FUSED SWITCH NEAR MOTOR	FUSIBLE SWITCH NEAR MOTOR	CIRCUIT BREAKER NEAR MOTOR	NEMA 4X ENCLOSURE	EQUIPMENT MANUFACTURER	MECHANICAL CONTRACTOR	ELECTRICAL CONTRACTOR	ON-OFF, PUSHBUTTON	ON-OFF, SWITCH	HAND-OFF-AUTO	PILOT LIGHT	PHASE LOSS PROTECTION	SEE HVAC DRAWINGS AND SPECIFICATION	MANUAL	INTEGRAL		
1	3	120	1	004	SUMP PUMP	RP/1	36	70	1	2	8	8	3/4"																																		3	1
2	3/10	120	1	PIT	SUMP PUMP	RP/1	29	20	1	2	12	12	3/4"																																			2
3	3/10	120	1	PIT	SUMP PUMP	RP/1	31	20	1	2	12	12	3/4"																																			3
4	3/10	120	1	PIT	SUMP PUMP	RP/1	33	20	1	2	12	12	3/4"																																			4
5	3	480	3	ROOF	POWER ROOF VENTILATOR	PP/2	67,69,71	15	3	3	10	10	3/4"	●								●													●						●						●			1	5
6	3	480	3	ROOF	POWER ROOF VENTILATOR	PP/2	73,75.77	15	3	3	10	10	3/4"	●								●													●						●						●			1	6
7	3	480	3	ROOF	POWER ROOF VENTILATOR	PP/2	79,81,83	15	3	3	10	10	3/4"	●								●													●						●						●			1	7
8	2.9kW	208	1	103	AC-1	RP/1	2,4	20	2	2	12	12	3/4"	●								●													●						●						●			1,2	8
9	2.9kW	208	1	102	AC-2	RP/1	28,30	20	2	2	12	12	3/4"	●								●													●						●						●			1,2	9
10	2.9kW	208	1	101	AC-3	RP/1	32,34	20	2	2	12	12	3/4"	●								●													●						●						●			1,2	10
11	1/4	120	1	002	EXHAUST FAN EF-4	RP/1	8	20	1	2	12	12	3/4"	●								●													●						●						●			1	11
12	1/4	120	1	003	EXHAUST FAN EF-5	RP/1	10	20	1	2	12	12	3/4"	●								●													●						●						●			1	12
13	18 MCA	208	1	ROOF	ACCU-1	PP	66,68	30	2	2	10	10	3/4"	●								●														●		●			●							●		4,5	13
14	18 MCA	208	1	ROOF	ACCU-2	PP	70,72	30	2	2	10	10	3/4"	●								●														●		●			●							●		4,5	14

MOTOR STARTER / WIRING SCHEDULE NOTES:

1. COORDINATE FINAL LOADING, MOTOR STARTER, AND DISCONNECT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
2. AIR CONDITIONING UNIT REQUIRES PLUG CONNECTION. PROVIDE NEMA 6-20R RECEPTACLE LOCATED NEAR CEILING.
3. EXISTING SUMP MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. PROVIDE TEMPORARY POWER FEED.
4. SEE MECHANICAL PLANS FOR CONDUIT ROUTE TO ROOF.
5. PANEL PP LOCATED IN EXISTING FIRST FLOOR ELECTRICAL ROOM, LOCATED IN DEPOT BUILDING.

SPECIAL PURPOSE OUTLET SCHEDULE

#	SERVING	LOC	FEED FROM		BREAKER		WIRING				VOLT	PHASE	LOAD	SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	#	SIZE	GND	COND				
1	ELEVATOR (EL3)	103	MSB/1	← SEE ONE LINE DIAGRAM →							480	3	21HP	1
2	ELEVATOR (EL2)	102	MSB/1	← SEE ONE LINE DIAGRAM →							480	3	21HP	1
3	ELEVATOR (EL1)	101	MSB/1	← SEE ONE LINE DIAGRAM →							480	3	21HP	1
4	ESCALATOR (ES3)	SEE PLAN	PP/1	2,4,6	40	3	3	8	10	1"	480	3	12KW	2,5,6
5	FUTURE ESCALATOR	SEE PLAN	PP/1	8,10,12	40	3	3	8	10	1"	480	3	12KW	8
6	ESCALATOR (ES2)	SEE PLAN	PP/2	2,4,6	40	3	3	8	10	1"	480	3	12KW	2,5,6
7	FUTURE ESCALATOR	SEE PLAN	PP/2	8,10,12	40	3	3	8	10	1"	480	3	12KW	8
8	ESCALATOR (ES1)	SEE PLAN	PP/2	14,16,18	40	3	3	8	10	1"	480	3	12KW	2,5,6
9	ESCALATOR (ES1)	SEE PLAN	PP/2	20,22,24	40	3	3	8	10	1"	480	3	12KW	2,5,6
10	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	1	20	1	2	10	10	3/4"	277	1	4.5kW	3
11	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	3	20	1	2	10	10	3/4"	277	1	4.5kW	3
12	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	5	20	1	2	12	12	3/4"	277	1	4.5kW	3
13	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	7	20	1	2	12	12	3/4"	277	1	4.5kW	3
14	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	9	20	1	2	12	12	3/4"	277	1	4.5kW	3
15	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	11	20	1	2	12	12	3/4"	277	1	4.5kW	3
16	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	13	20	1	2	12	12	3/4"	277	1	4.5kW	3
17	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	15	20	1	2	12	12	3/4"	277	1	4.5kW	3
18	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	17	20	1	2	12	12	3/4"	277	1	4.5kW	3
19	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	19	20	1	2	12	12	3/4"	277	1	4.5kW	3
20	AUTOMATIC DOOR	SEE PLAN	RP/1	27	20	1	2	12	12	3/4"	120	1	-	-
21	ELECTRIC WALL HEATER EWH-5	003	RP/1	29,31	20	2	2	12	12	3/4"	208	1	2.0kW	-
22	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	3	20	1	2	10	10	3/4"	277	1	4.5kW	3
23	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	5	20	1	2	10	10	3/4"	277	1	4.5kW	3
24	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	7	20	1	2	12	12	3/4"	277	1	4.5kW	3
25	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	9	20	1	2	12	12	3/4"	277	1	4.5kW	3
26	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	11	20	1	2	12	12	3/4"	277	1	4.5kW	3
27	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	13	20	1	2	12	12	3/4"	277	1	4.5kW	3
28	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	15	20	1	2	12	12	3/4"	277	1	4.5kW	3
29	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	17	20	1	2	12	12	3/4"	277	1	4.5kW	3
30	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	19	20	1	2	12	12	3/4"	277	1	4.5kW	3
31	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	21	20	1	2	12	12	3/4"	277	1	4.5kW	3
32	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-
33	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-
34	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	27	20	1	2	10	10	3/4"	277	1	4.5kW	3
35	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	29	20	1	2	10	10	3/4"	277	1	4.5kW	3
36	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	31	20	1	2	10	10	3/4"	277	1	4.5kW	3
37	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	33	20	1	2	10	10	3/4"	277	1	4.5kW	3
38	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	35	20	1	2	12	12	3/4"	277	1	4.5kW	3
39	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	37	20	1	2	12	12	3/4"	277	1	4.5kW	3

SPECIAL PURPOSE OUTLET SCHEDULE CONTINUED

#	SERVING	LOC	FEED FROM		BREAKER		WIRING				VOLT	PHASE	LOAD	SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	#	SIZE	GND	COND				
40	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	39	20	1	2	12	12	3/4"	277	1	4.5kW	3
41	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	41	20	1	2	12	12	3/4"	277	1	4.5kW	3
42	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	43	20	1	2	12	12	3/4"	277	1	4.5kW	3
43	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	45	20	1	2	12	12	3/4"	277	1	4.5kW	3
44	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -1	PP/2	47	20	1	2	12	12	3/4"	277	1	4.5kW	3
45	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -1	PP/2	49	20	1	2	12	12	3/4"	277	1	4.5kW	3
46	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -2	PP/2	51	20	1	2	12	12	3/4"	277	1	4.5kW	3
47	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -2	PP/2	53	20	1	2	12	12	3/4"	277	1	4.5kW	3
48	ILLUMINATED SIGN - LED DISPLAY	PLAT-FORM -3	PP/1	23	20	1	2	12	12	3/4"	277	1	4.5kW	3
49	ILLUMINATED SIGN - FLUORESCENT SIGN	PLAT-FORM -3	PP/1	25	20	1	2	12	12	3/4"	277	1	4.5kW	3
50	STANDBY CABINET	PLAT-FORM -1	← SEE ONE LINE DIAGRAM →								480	3	800A	4
51	HEAT TRACE	NORTH ROOF	PP/1	35	40	1	2	8	10	1"	277	1	8.8kW	7
52	HEAT TRACE	NORTH ROOF	PP/1	37	40	1	2	6	8	1"	277	1	8.8kW	7
53	HEAT TRACE	NORTH ROOF	PP/1	39	40	1	2	6	8	1"	277	1	8.8kW	7
54	HEAT TRACE	NORTH ROOF	PP/1	41	40	1	2	6	8	1"	277	1	8.8kW	7
55	HEAT TRACE	SOUTH ROOF	PP/1	14	40	1	2	8	10	1"	277	1	8.8kW	7
56	HEAT TRACE	SOUTH ROOF	PP/1	16	40	1	2	8	10	1"	277	1	8.8kW	7
57	HEAT TRACE	NORTH ROOF	PP/1	18	40	1	2	8	10	1"	277	1	8.8kW	7
58	HEAT TRACE	SOUTH ROOF	PP/1	20	40	1	2	8	10	1"	277	1	8.8kW	7
59	HEAT TRACE	NORTH ROOF	PP/1	22	40	1	2	8	10	1"	277	1	8.8kW	7
60	HEAT TRACE	NORTH ROOF	PP/1	24	40	1	2	8	10	1"	277	1	8.8kW	7
61	HEAT TRACE	SOUTH ROOF	PP/1	26	40	1	2	8	10	1"	277	1	8.8kW	7
62	HEAT TRACE	SOUTH ROOF	PP/1	28	40	1	2	8	10	1"	277	1	8.8kW	7
63	HEAT TRACE	SOUTH ROOF	PP/1	30	40	1	2	8	10	1"	277	1	8.8kW	7
64	HEAT TRACE	SOUTH ROOF	PP/1	32	40	1	2	8	10	1"	277	1	8.8kW	7
65	HEAT TRACE	NORTH ROOF	PP/1	34	40	1	2	8	10	1"	277	1	8.8kW	7
66	HEAT TRACE	SOUTH ROOF	PP/1	36	40	1	2	8	10	1"	277	1	8.8kW	7
67	FIRE ALARM CONTROL PANEL	003	LS/INV2	8	20	1	2	12	12	3/4"	277	1	0.5kW	-
68	ELECTRIC WALL HEATER EWH-1	103	RP/1	12,14	20	2	2	12	12	3/4"	208	1	2.0kW	
69	ELECTRIC WALL HEATER EWH-2	102	RP/1	16,18	20	2	2	12	12	3/4"	208	1	2.0kW	
70	ELECTRIC WALL HEATER EWH-3	101	RP/1	20,22	20	2	2	12	12	3/4"	208	1	2.0kW	
71	ELECTRIC WALL HEATER EWH-4	002	RP/1	24,26	20	2	2	12	12	3/4"	208	1	2.0kW	

SPECIAL PURPOSE OUTLET SCHEDULE NOTES:

1. EC TO VERIFY EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
2. EC TO VERIFY EXACT REQUIREMENTS WITH ESCALATOR MANUFACTURER.
3. EC TO VERIFY EXACT REQUIREMENTS WITH SIGN MANUFACTURER.
4. EC TO VERIFY EXACT REQUIREMENTS WITH AMTRAK. SEPARATE WE-ENERGIES 800A, 3PHASE, 3WIRE, ELECTRICAL SERVICE TO BE PROVIDED.
5. EC TO PROVIDE 20A 120V CIRCUIT FROM PANELBOARD RP/1 WITH 30A DISCONNECT LOCATED AT TOP OF ESCALATOR MACHINE SPACE. PROVIDE 10'-0" WHIP OUT OF DISCONNECT FOR MANUFACTURER CONNECTION.
6. EC TO PROVIDE DISCONNECT AT TOP ESCALATOR SERVICE SPACE. PROVIDE 10'-0" WHIP OUT OF DISCONNECT FOR MANUFACTURER CONNECTION.
7. PROVIDE THERMON MODEL RGS-2 FOR ROOF AND GUTTER SNOW AND ICE MELTING SYSTEM OR EQUAL FROM RAYCHEM. THE GUTTERS 6"-12" WIDE PROVIDE A LOOPING CABLE RUN - ONE CABLE ON EACH SIDE OF GUTTER BASIN. IN THE GUTTERS LESS THAN 6" WIDE PROVIDE ONE CABLE RUN IN THE GUTTER BASIN. IN ALL DOWNSPOUTS A LOOPING CABLE RUN - ONE CABLE UP AND ONE CABLE DOWN IN THE SAME DOWNSPOUT FOR EACH DOWNSPOUT, CABLE TO EXTEND DOWN TO THE POINT WHERE THE VERTICAL DRAIN MEETS THE HORIZONTAL DRAIN, CABLE SHOULD NOT ENTER INTO THE HORIZONTAL STORM DRAIN PIPE. ON THE ROOF - INSTALL PER MANUFACTURER'S RECOMMENDATIONS. CIRCUITS SERVING THE GUTTERS AND DOWNSPOUTS TO BE COMBINED. CIRCUITS SERVING THE ROOF SHALL BE SEPARATE FROM THE GUTTERS AND DOWNSPOUTS. MAXIMUM LENGTH OF CABLING CIRCUIT RGS-2 AT 277 VAC SHALL NOT EXCEED 350 LINEAR FEET ON A 40 AMP CIRCUIT. PROVIDE WITH AUTOMATIC CONTROL - ROOF OR GUTTER MOUNTED ICE SENSOR TURNS SYSTEM ON WHEN MOISTURE IS DETECTED AND TEMPERATURES ARE IN THE RANGE WHEN FREEZING CAN OCCUR ON ROOF OVERHANGS OR IN GUTTERS. REFER TO ARCHITECTURAL DRAWING A101 FOR DOWNSPOUT LOCATIONS. INSTALL SNOW MELT / ICE DAM HEAT TRACE PER ALL MANUFACTURER'S RECOMMENDATIONS.PER NEC ARTICLE 426 PROVIDE 30mA GROUND FAULT CIRCUIT BREAKER. CONTRACTOR SHALL DETERMINE BRANCH CIRCUIT SIZE NEEDED AT EACH PANEL FEEDING HEAT TRACING AND NOTIFY ENGINEER IF DIFFERENT THAN SHOWN BEFORE BUYING MATERIALS AND STARTING INSTALLATION OF BRANCH CIRCUITS.
8. INSTALL BREAKER IN PANEL FOR FUTURE ESCALATOR. TURN BREAKER TO OFF POSITION. DO NOT CONNECT CONDUCTORS TO BREAKER AT THIS TIME. LEAVE ENOUGH SPARE WIRE FOR FUTURE CONNECTION. COVER THE ENDS OF LOOSE CONDUCTORS WITH A WEATHER PROOF INSULATOR.

PANELBOARD SCHEDULE: LP/1

VOLTAGE: 480/277V
PHASE/WIRE: 3PH, 4W
☐ SERVICE ENTRANCE LABEL
INTERRUPTING RATING: 65,000 AMPS SYMMETRICAL
☐ SERIES RATED

MAIN TYPE:
☒ 150 A TRIP MAIN CB
☐ _____ CONTACTOR
☐ LUGS ONLY ☐ FEED THRU
☐ SUB-FEED (DOUBLE) LUGS
☐ SHUNT TRIP
☐ _____

BUS: 150 AMPS
☒ COPPER
☐ ALUMINUM
☐ 200% NEUTRAL
GROUNDING:
☒ STANDARD (NON-INSULATED)
☐ ISOLATED (INSULATED)

MOUNTING:
☒ SURFACE
☐ FLUSH
ENCLOSURE:
☐ NEMA 1
☒ NEMA-3R

CCT #	LOAD DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	TRIP	TRIP	VA/PHASE A	VA/PHASE B	VA/PHASE C	LOAD DESCRIPTION	CCT #
1	WEST PLAT. 1 LIGHTING	555			20/1	20/1				SPARE	2
3	WEST PLAT. 2 LIGHTING		1295		20/1	20/1				SPARE	4
5	WEST PLAT. 3 LIGHTING			1295	20/1	20/1				SPARE	6
7	NORTH WALL WASH LTG	4800			20/1	20/1				SPARE	8
9	NORTH WALL WASH LTG		4800		20/1	20/1				SPARE	10
11	SOUTH WALL WASH LTG			4800	20/1					SPACE	12
13	SOUTH WALL WASH LTG	4800			20/1					SPACE	14
15	LED WALL WASH LTG		4800		20/1					SPACE	16
17	ELEVATOR/MEZZ LIGHTING			780	20/1					SPACE	18
19	EAST PLAT. 1 LIGHTING	1110			20/1					SPACE	20
21	EAST PLAT. 2 LIGHTING		370		20/1					SPACE	22
23	EAST PLAT. 3 LIGHTING			370	20/1					SPACE	24
25	ELEVATOR SIGNAGE	290			20/1					SPACE	26
27	SPARE				20/1					SPACE	28
29	SPARE				20/1					SPACE	30
31	SPARE				20/1					SPACE	32
33	SPARE				20/1					SPACE	34
35	SPARE				20/1					SPACE	36
37	SPARE				20/3					SPACE	38
39	SPARE									SPACE	40
41	SPARE									SPACE	42
		A 11555	B 11265	C 7245						TOTAL CONNECTED (VA): (TUB 1)	30065
										TOTAL CONNECTED (AMPS) (TUB 1)	36

PANELBOARD SCHEDULE: RP/1

VOLTAGE: 208/120V
PHASE/WIRE: 3PH, 4W
☐ SERVICE ENTRANCE LABEL
INTERRUPTING RATING: 10,000 AMPS SYMMETRICAL
☐ SERIES RATED

MAIN TYPE:
☒ 100 A TRIP MAIN CB
☐ _____ CONTACTOR
☐ LUGS ONLY ☐ FEED THRU
☐ SUB-FEED (DOUBLE) LUGS
☐ SHUNT TRIP
☐ _____

BUS: 100 AMPS
☒ COPPER
☐ ALUMINUM
☐ 200% NEUTRAL
GROUNDING:
☒ STANDARD (NON-INSULATED)
☐ ISOLATED (INSULATED)

MOUNTING:
☒ SURFACE
☐ FLUSH
ENCLOSURE:
☐ NEMA 1
☒ NEMA-3R

CCT #	LOAD DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	TRIP	TRIP	VA/PHASE A	VA/PHASE B	VA/PHASE C	LOAD DESCRIPTION	CCT #
1	RECEPT (RM 002,003)	360			20/1	20/2	1475			MOTOR NO. 8 AC-1	2
3	RECEPT (RM 101, 102,103)		520		20/1	X		1475		XX	4
5	RECEPT ELEV 1 PIT			180	20/1	20/1				SPARE	6
7	RECEPT ELEV 2 PIT	180			20/1	20/1	696			MOTOR NO. 11 EF-1	8
9	RECEPT ELEV 3 PIT		180		20/1	20/1		696		MOTOR NO. 12 EF-2	10
11	RECEPT ELEV 3			180	20/1	20/2			1000	SPO NO. 68 EWH-1	12
13	RECEPT ELEV 2	180			20/1	X	1000			XX	14
15	RECEPT ELEV 1		180		20/1	20/2		1000		SPO NO. 69 EWH-2	16
17	RECEPT ROOF			720	20/1	X			1000	XX	18
19	RECEPT ROOF	180			20/1	20/2	1000			SPO NO. 70 EWH-3	20
21	RECEPT ROOF		180		20/1	X		1000		XX	22
23	RECEPT ROOF			180	20/1	20/2			1000	SPO NO. 71 EWH-4	24
25	RECEPT ROOF	180			20/1	X	1000			XX	26
27	SPO#20		255		20/1	20/2		1475		MOTOR NO. 9 AC-2	28
29	MOTOR NO. 2 SUMP PUMP			960	20/1	X			1475	XX	30
31	MOTOR NO. 3 SUMP PUMP	960			20/1	20/2	1475			MOTOR NO.10 AC-3	32
33	MOTOR NO. 4 SUMP PUMP		960		20/1	X		1475		XX	34
35	SPARE				20/1	70/1			4080	MOTOR NO. 1 SUMP PUMP	36
37	SPARE				20/1	20/1				SPARE	38
39	SPARE				20/1	20/1				SPARE	40
41	SPARE				20/1	20/1				SPARE	42
		A 8686	B 9396	C 10776						TOTAL CONNECTED (VA): (TUB 1)	28857
										TOTAL CONNECTED (AMPS) (TUB 1)	80

PANELBOARD SCHEDULE: PP/1

VOLTAGE: 480/277V
PHASE/WIRE: 3PH, 4W
☐ SERVICE ENTRANCE LABEL
INTERRUPTING RATING: 65,000 AMPS SYMMETRICAL
☐ SERIES RATED

MAIN TYPE:
☒ 400 A TRIP MAIN CB
☐ _____ CONTACTOR
☐ LUGS ONLY ☐ FEED THRU
☐ SUB-FEED (DOUBLE) LUGS
☐ SHUNT TRIP
☐ _____

BUS: 400 AMPS
☒ COPPER
☐ ALUMINUM
☐ 200% NEUTRAL
GROUNDING:
☒ STANDARD (NON-INSULATED)
☐ ISOLATED (INSULATED)

MOUNTING:
☒ SURFACE
☐ FLUSH
ENCLOSURE:
☐ NEMA 1
☒ NEMA-3R

CCT #	LOAD DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	TRIP	TRIP	VA/PHASE A	VA/PHASE B	VA/PHASE C	LOAD DESCRIPTION	CCT #
1	SPO#10	4500			20/1	40/3	4000			SPO#4	2
3	SPO#11		4500		20/1	-		4000		-	4
5	SPO#12			4500	20/1	-			4000	-	6
7	SPO#13	4500			20/1	40/3				SPO#5	8
9	SPO#14		4500		20/1	-				-	10
11	SPO#15			4500	20/1	-				-	12
13	SPO#16	4500			20/1	40/1	8800			SPO#55	14
15	SPO#17		4500		20/1	40/1		8800		SPO#56	16*
17	SPO#18			4500	20/1	40/1			8800	SPO#57	18*
19	SPO#19	4500			20/1	40/1	8800			SPO#58	20*
21	SPARE				20/1	40/1		8800		SPO#59	22*
23	SPO#48			4500	20/1	40/1			8800	SPO#60	24*
25	SPO#50	4500			20/1	40/1	8800			SPO#61	26*
27	SPARE				20/1	40/1		8800		SPO#62	28*
29	SPARE				20/1	40/1			8800	SPO#63	30*
31	SPARE				20/1	40/1	8800			SPO#64	32*
33	SPARE				20/1	40/1		8800		SPO#65	34*
35*	SPO#51			8800	40/1	40/1			8800	SPO#66	36*
37*	SPO#52	8800			40/1	20/1				SPARE	38
39*	SPO#53		8800		40/1	20/1				SPARE	40
41*	SPO#54			8800	40/1	20/1				SPARE	42
		A 70500	B 61500	C 74800						TOTAL CONNECTED (VA): (TUB 1)	206800
										TOTAL CONNECTED (AMPS) (TUB 1)	249

* - PROVIDE A 30mA GROUND FAULT CIRCUIT BREAKER PER NEC 425 FOR HEAT TRACING CABLES.

PANELBOARD SCHEDULE: PP/2 (TUB 1)

VOLTAGE: 480/277V
PHASE/WIRE: 3PH, 4W
☐ SERVICE ENTRANCE LABEL
INTERRUPTING RATING: 65,000 AMPS SYMMETRICAL
☐ SERIES RATED

MAIN TYPE:
☒ 600 A TRIP MAIN CB
☐ _____ CONTACTOR
☐ LUGS ONLY ☒ FEED THRU
☐ SUB-FEED (DOUBLE) LUGS
☐ SHUNT TRIP
☐ _____

BUS: 600 AMPS
☒ COPPER
☐ ALUMINUM
☐ 200% NEUTRAL
GROUNDING:
☒ STANDARD (NON-INSULATED)
☐ ISOLATED (INSULATED)

MOUNTING:
☒ SURFACE
☐ FLUSH
ENCLOSURE:
☐ NEMA 1
☒ NEMA-3R

CCT #	LOAD DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	TRIP	TRIP	VA/PHASE A	VA/PHASE B	VA/PHASE C	LOAD DESCRIPTION	CCT #
1	SPARE				20/1	40/3	4000			SPO#6	2
3	SPO#22		4500		20/1	-		4000		-	4
5	SPO#23			4500	20/1	-			4000	-	6
7	SPO#24	4500			20/1	40/3				SPO#7	8
9	SPO#25		4500		20/1	-				-	10
11	SPO#26			4500	20/1	-				-	12
13	SPO#27	4500			20/1	40/3	4000			SPO#8	14
15	SPO#28		4500		20/1	-		4000		-	16
17	SPO#29			4500	20/1	-			4000	-	18
19	SPO#30	4500			20/1	40/3	4000			SPO#9	20
21	SPO#31		4500		20/1	-		4000		-	22
23	SPARE				20/1	-			4000	-	24
25	SPARE				20/1	20/1				SPARE	26
27	SPO#34		4500		20/1	20/1				SPARE	28
29	SPO#35			4500	20/1	20/1				SPARE	30
31	SPO#36	4500			20/1	20/1				SPARE	32
33	SPO#37		4500		20/1	20/1				SPARE	34
35	SPO#38			4500	20/1	20/1				SPARE	36
37	SPO#39	4500			20/1	20/1				SPARE	38
39	SPO#40		4500		20/1	20/1				SPARE	40
41	SPO#41			4500	20/1	20/1				SPARE	42
		A 34500	B 43500	C 39000						TOTAL CONNECTED (VA): (TUB 1)	117000
										TOTAL CONNECTED (AMPS) (TUB 1)	

PANELBOARD SCHEDULE: PP/2 (TUB 2)

VOLTAGE: 480/277V
PHASE/WIRE: 3PH, 4W
☐ SERVICE ENTRANCE LABEL
INTERRUPTING RATING: 65,000 AMPS SYMMETRICAL
☐ SERIES RATED

MAIN TYPE:
☐ _____ A TRIP MAIN CB
☐ _____ CONTACTOR
☒ LUGS ONLY ☐ FEED THRU
☐ SUB-FEED (DOUBLE) LUGS
☐ SHUNT TRIP
☐ _____

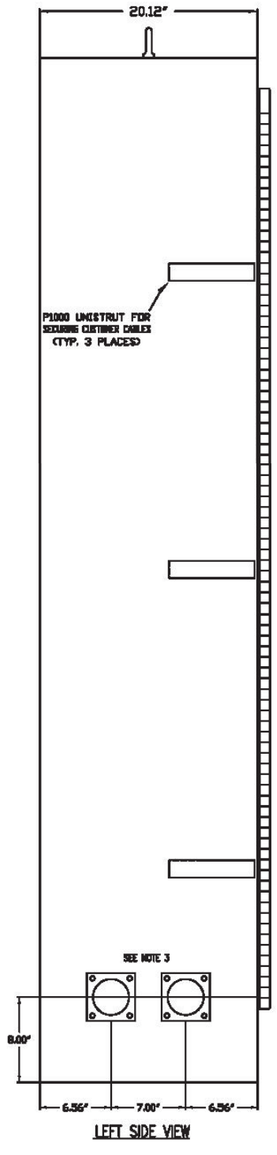
BUS: 600 AMPS
☒ COPPER
☐ ALUMINUM
☐ 200% NEUTRAL
GROUNDING:
☒ STANDARD (NON-INSULATED)
☐ ISOLATED (INSULATED)

MOUNTING:
☒ SURFACE
☐ FLUSH
ENCLOSURE:
☐ NEMA 1
☒ NEMA-3R

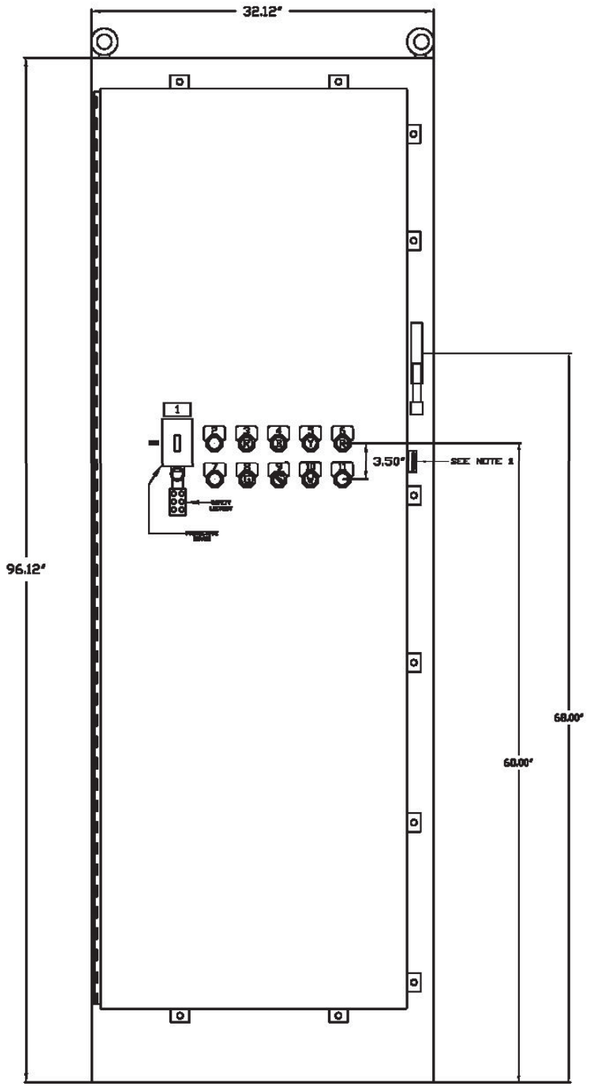
CCT #	LOAD DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	TRIP	TRIP	VA/PHASE A	VA/PHASE B	VA/PHASE C	LOAD DESCRIPTION	CCT #
43	SPO#42	4500			20/1	-				SPACE	44
45	SPO#43		4500		20/1	-				SPACE	46
47	SPO#44			4500	20/1	-				SPACE	48
49	SPO#45	4500			20/1	-				SPACE	50
51	SPO#46		4500		20/1	-				SPACE	52
53	SPO#47			4500	20/1	-				SPACE	54
55	SPARE				20/1	-				SPACE	56
57	SPARE				20/1	-				SPACE	58
59	SPARE				20/1	-				SPACE	60
61	SPARE				20/1	-				SPACE	62
63	SPARE				20/1	-				SPACE	64
65	SPARE				20/1	-				SPACE	66
67	MOTOR NO. 5	1335			15/3	-				SPACE	68
69	-		1335		-	-				SPACE	70
71	-			1335	-	-				SPACE	72
73	MOTOR NO. 6	1335			15/3	-				SPACE	74
75	-		1335		-	-				SPACE	76
77	-			1335	-	-				SPACE	78
79	MOTOR NO. 7	1335			15/3	-				SPACE	80
81	-		1335		-	-				SPACE	82
83	-			1335	-	-				SPACE	84
		A 13005	B 13005	C 13005						TOTAL CONNECTED (VA): (TUB 2)	39015
										TOTAL CONNECTED (AMPS) (TUB 1 +2)	188

E-602

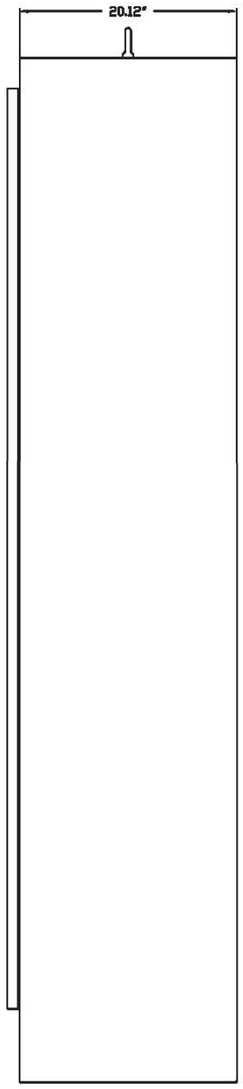
2



LEFT SIDE VIEW



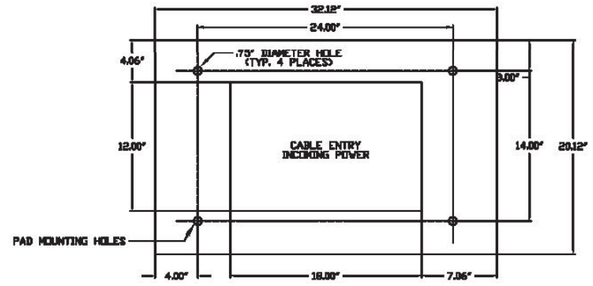
FRONT VIEW



RIGHT SIDE VIEW

DOOR NAMEPLATE LEGEND

	LINE 1	LINE 2	INTERNAL
1	CONTROL	POWER	CB2
2	CONTACTOR	CLOSE	PB53-2
3	CONTACTOR	CLOSED	PL63
4	LOOP	OPEN	PL57
5	BREAKER	OPEN	PL56
6	POWER TO	CONNECTORS	PL67
7	CONTACTOR	OPEN	PB53-1
8	CONTACTOR	OPEN	PL66
9	LOOP	OFF ON	KS-65
10	BREAKER TRIPPED	ON GROUND FAULT	PL58
11	GROUND FAULT	RESET	PB60



FRONT OF ENCLOSURE

BOTTOM VIEW

NOTES:

1. PADLOCK HASP AND STAPLE MUST BE PROVIDED. ASSEMBLY MUST BE CAPABLE OF ACCEPTING A 1/2" DIAMETER PADLOCK, IN ACCORDANCE WITH AMTRAK STANDARDS.
2. P1000 ALUMINUM UNISTRUT PROVIDED BY STANECO (TYP. 3 PLACES).
3. THE 480 VOLT RECEPTACLES SHALL BE SUPPLIED BY AMTRAK FOR INSTALLATION AT EITHER OUR FACTORY OR IN THE FIELD. RECEPTACLES SHALL BE MANUFACTURED BY CLEMENT'S MODEL NUMBERS MRA-H, MRA-1-0048.
4. NEMA 4X PANEL MATERIAL SHALL BE STAINLESS STEEL TYPE 304.
5. PANEL TO BE MANFACTURED IN ACCORDANCE WITH AMTRAK AM800 SPECIFICATIONS.

TITLE	AMTRAK
	ENCLOSURE LAYOUT
	800 AMP SYSTEM
DRAWN MSR	DATE 09-09-97
CHECKED ,	DATE ,
E.O. AMTRAK	SCALE 1" = 6"
DWG NO. AM800-2	REV. H

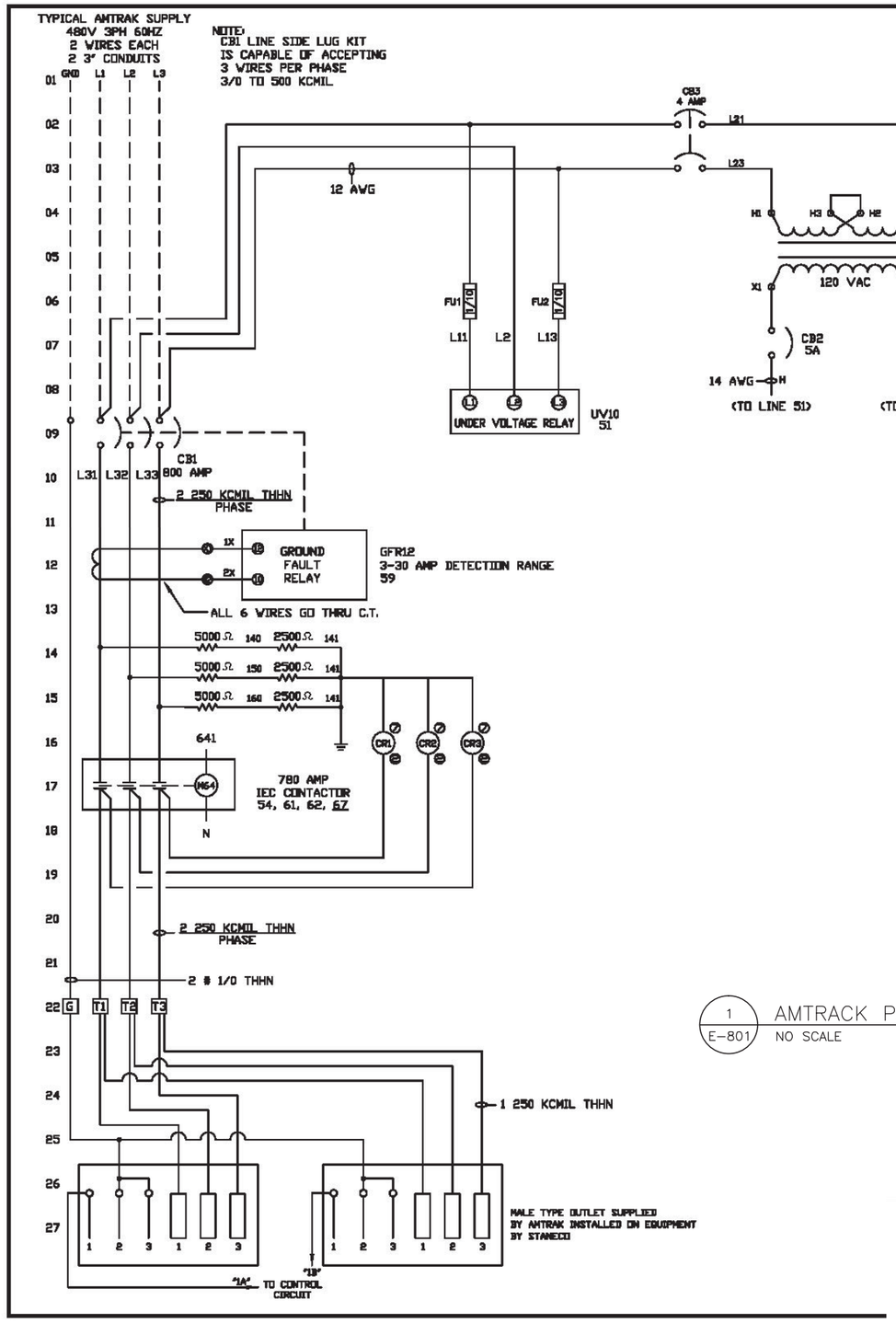
1 / E-800 AMTRACK PANEL DETAILS

NO SCALE

E-800

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN AMTRAK PANEL DETAILS	SHEET 64 E

FILE NAME : L:\JOBS2010\20100072-01\CAD\ELECTRICAL\DGN\00\SHEETS\2010-0072-01 E800.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

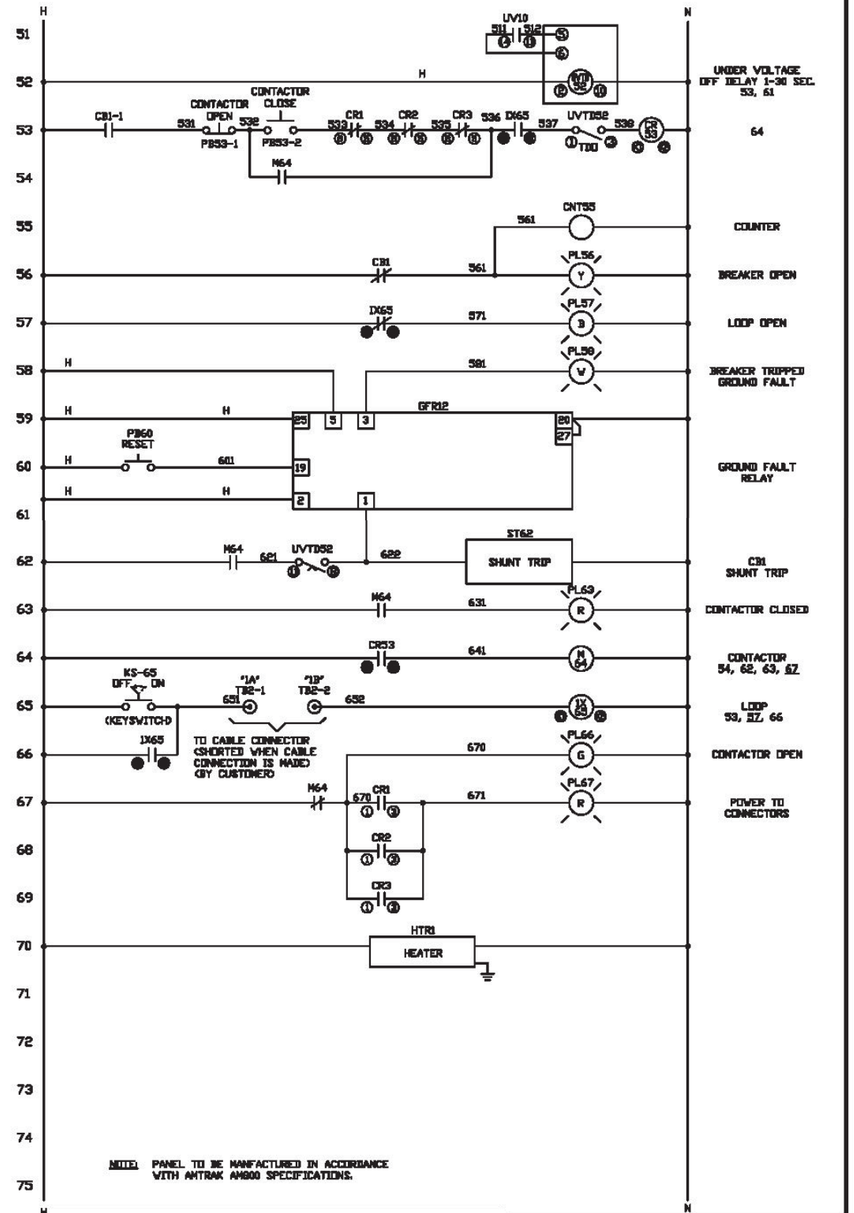


1 / E-801 AMTRACK PANEL DETAILS

NO SCALE

⊗ = TERMINAL ON DEVICE MOUNTED IN PANEL

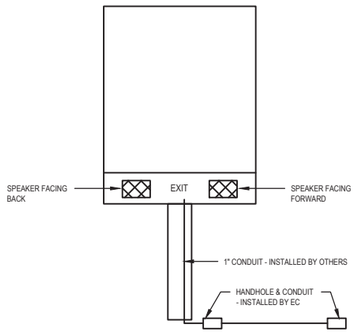
⊙ = TERMINAL FOR FIELD INTERCONNECT



NOTE: PANEL TO BE MANFACTURED IN ACCORDANCE WITH AMTRAK AM800 SPECIFICATIONS.

TITLE	AMTRAK ELECTRICAL SCHEMATIC 800 AMP SYSTEM
DRAWN MME	DATE 09-09-97
CHECKED	DATE
P.M. AMTRAK	SCALE NTS
DWG NO.	AM800-1 REV. H

E-801

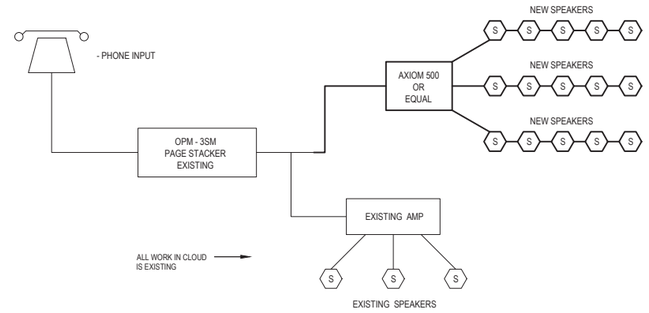


1 E802 SPEAKER INSTALLATION IN SIGN

SCALE:

GENERAL NOTES:

1. SPEAKERS WILL BE PROVIDED AND MOUNTED BY SIGN MANUFACTURER.
2. CONTRACTOR WILL BE RESPONSIBLE FOR WIRE INSTALLATION AND CONNECTION OF SPEAKER TO PA SYSTEM NETWORK.
3. SPEAKERS WILL BE QUAMM H16/SVP.

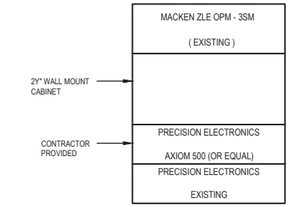


2 E802 FUNCTIONAL ONE-LINE

SCALE: NONE

GENERAL NOTES:

1. ALL SPEAKER CABLES TO BE INSTALLED BY CONTRACTOR.
2. ALL CABLE WILL BE RUN FROM SECURITY OFFICE TO SPEAKER LOCATION.
3. ALL CABLE WILL BE A MINIMUM OF SHIELDED 16/2 CABLE.
4. NO MORE THAN 5 SPEAKERS CAN BE RUN ON ANY CABLE.
5. CONTRACTOR RESPONSIBLE FOR CONNECTION OF CABLE TO SPEAKERS MOUNTED BY SIGN CONTRACTOR.
6. SPEAKERS SHALL BE MOUNTED IN UNDERSIDE OF ELEVATOR DOOR OPENING, BOTH LEVELS, SEE DETAILS 4/A-414 AND 7/A-414 FOR ADDITIONAL INFORMATION.
   a. CONTRACTOR WILL PROVIDE QUAMM H16/SVP SPEAKERS AND ALL CABLING.
   b. ALL CABLE WILL BE RUN IN CONDUIT. CONDUIT FROM GROUND LEVEL HAND HOLD TO SPEAKER LOCATION PROVIDED BY ELECTRICAL CONTRACTOR.

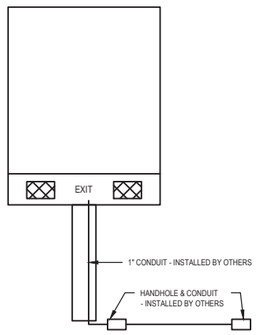


3 E802 EXISTING WALL MOUNT CABINET

SCALE: NONE

GENERAL NOTES:

1. AUDIO RACK CURRENTLY INSTALLED IN SECURITY OFFICE.
2. CONTRACTOR PROVIDED MIXER/AMP SHALL BE 500 WATT OR LARGER

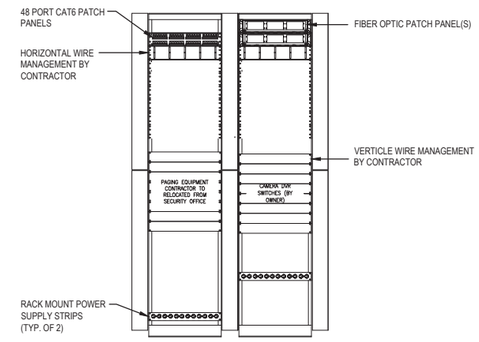


5 E802 FIBER INSTALLATION

SCALE:

GENERAL NOTES:

1. INSTALL 6 STRAND, 50 MICRON FIBER CABLE FROM DATA ROOM 116A TO EACH PLATFORM SIGN..
2. TERMINATE FIBER IN DATA RACK IN ROOM 116A.
3. TERMINATE FIBER IN HOUSING LOCATED IN SIGN CAVITY. HOUSING SHALL BE NO LARGER THAN 7"Hx7"wx1.5"d.
4. HARDWARE FOR DATA WILL BE PROVIDED BY OWNER.
5. PROVIDE A CATEGORY 3 CABLE TO SIGNS LOCATED ON PLATFORM 2 FOR WIRELESS TO BE INSTALLED BY OWNER...



NOTE: ACTUAL QUANTITIES MAY VARY FROM THOSE SHOWN

6 E802 TYPICAL RACK LAYOUT

SCALE: NONE

PLUMBING SYMBOLS, ABBREVIATIONS & SCHEDULES

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED HERE ARE USED IN THE DRAWINGS AND MAY NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE DRAWINGS.

PLUMBING ABBREVIATIONS

A	-	AIR	L	-	LAVATORY
AFF	-	ABOVE FINISHED FLOOR	LBS	-	POUNDS
AFG	-	ABOVE FINISHED GRADE	LB/HR	-	POUNDS PER HOUR
ALT	-	ALTERNATE			
AP	-	ACCESS PANEL	MAX	-	MAXIMUM
APPROX.	-	APPROXIMATELY	MB	-	MOP BASIN
ARCH	-	ARCHITECTURAL	MBH	-	THOUSANDS OF BTU PER HOUR
AV	-	ACID VENT	MC	-	MECHANICAL CONTRACTOR
AVG	-	AVERAGE	MEP	-	MECHANICAL, ELECTRICAL AND PIPING
AW	-	ACID WASTE	MER	-	MECHANICAL EQUIPMENT ROOM
			MEZZ	-	MEZZANINE
BFF	-	BELOW FINISHED FLOOR	MFR	-	MANUFACTURER
BLDG	-	BUILDING	MH	-	MANHOLE
BOT	-	BOTTOM	MIN.	-	MINIMUM
BOP	-	BOTTOM OF PIPE	MISC	-	MISCELLANEOUS
BT	-	BATHTUB	MTD	-	MOUNTED
BTU	-	BRITISH THERMAL UNITS	MTG	-	MOUNTING
BTUH	-	BRITISH THERMAL UNITS PER HOUR			
BV	-	BALANCING VALVE	NA	-	NOT APPLICABLE
			NIC	-	NOT IN CONTRACT
CAP	-	CEILING ACCESS PANEL	NO	-	NUMBER
CC	-	CAPPED CONNECTION	NPS	-	NOMINAL PIPE SIZE
CFH	-	CUBIC FEET PER MINUTE	NTS	-	NOT TO SCALE
CFM	-	CUBIC FEET PER HOUR			
CL	-	CENTERLINE	OC	-	ON CENTER
CLG	-	CEILING	OD	-	OUTSIDE DIAMETER
CLV	-	CLEAR WATER VENT	OFCI	-	OWNER FURNISHED, CONTRACTOR INSTALLED
CLW	-	CLEAR WATER WASTE	OFOI	-	OWNER FURNISHED, OWNER INSTALLED
CO	-	CLEANOUT			
COND	-	CONDUCTOR	P	-	PUMP
CONT	-	CONTRACTOR	PC	-	PLUMBING CONTRACTOR
CTR	-	CENTER	PCF	-	POUNDS PER CUBIC FOOT
CU	-	COPPER	PD	-	PRESSURE DROP
CV	-	CHECK VALVE	PH	-	PHASE
CW	-	COLD WATER	PLBG	-	PLUMBING
CWFU	-	COLD WATER FIXTURE UNITS	POC	-	POINT OF CONNECTION
CWS	-	COLD WATER SOFT	PP	-	POLYPROPYLENE
			PPH	-	POUNDS PER HOUR
DD	-	DRAIN DECK	PRV	-	PRESSURE RELIEF VALVE
DET	-	DETAIL	PSF	-	POUNDS PER SQUARE FOOT
DFU	-	DRAINAGE FIXTURE UNITS	PSI	-	POUNDS PER SQUARE INCH
DIA	-	DIAMETER	PSIA	-	POUNDS PER SQUARE INCH ABSOLUTE
DIM	-	DIMENSION	PSIG	-	POUNDS PER SQUARE INCH GAUGE
DN	-	DOWN	PVC	-	POLYVINYL CHLORIDE
DS	-	DOWNSPOUT			
DT	-	DRAIN TILE	RD	-	ROOF DRAIN
DTR	-	DRAIN TILE RECEIVER	REC	-	RECESSED
DWG.	-	DRAWING	RF	-	ROOF
DW	-	DISH WASHER	RI	-	ROUGHIN
			RPZ	-	REDUCED PRESSURE ZONE VALVE
E	-	EXISTING	RV	-	RELIEF VALVE
EEW	-	EMERGENCY EYEWASH			
ELEV	-	ELEVATION	S	-	SLOPE
EM	-	EMERGENCY	SCH	-	SCHEDULE
EQUIP	-	EQUIPMENT	SH	-	SHOWER
ES	-	EMERGENCY SHOWER	SHT	-	SHEET
ET	-	EXPANSION TANK	SOG	-	SLAB ON GRADE
ETR	-	EXISTING TO REMAIN	SPEC	-	SPECIFICATION
EWC	-	ELECTRIC WATER COOLER	SQ	-	SQUARE
EWH	-	ELECTRIC WATER HEATER	SS	-	SERVICE SINK
EXST	-	EXISTING	S/S	-	STAINLESS STEEL
			STD	-	STANDARD
F	-	FUTURE			
FCO	-	FLOOR CLEANOUT	T&P	-	TEMPERATURE AND PRESSURE
FD	-	FLOOR DRAIN	TBR	-	TO BE REMOVED
FFE	-	FINISHED FLOOR ELEVATION	TD	-	TRENCH DRAIN
FLR	-	FLOOR	TDFU	-	TOTAL DRAIN FIXTURE UNITS
FP	-	FIREPROOF	TEMP	-	TEMPERATURE
FPM	-	FEET PER MINUTE	TOP	-	TOP OF PIPE
FPS	-	FEET PER SECOND	TOS	-	TOP OF SLAB
FS	-	FLOOR SINK	T STAT	-	THERMOSTAT
FST	-	FLOAT AND THERMOSTATIC	TWFU	-	TOTAL WATER FIXTURE UNITS
FT	-	FEET	TYP	-	TYPICAL
FTG	-	FOOTING			
FU	-	FIXTURE UNITS	UNO	-	UNLESS OTHERWISE NOTED
G	-	GAS	V	-	VENT
GAL	-	GALLON	VB	-	VACCUM BREAKER
GC	-	GENERAL CONTRACTOR	VB	-	VALVE IN BOX
GPM	-	GALLONS PER MINUTE	VTR	-	VENT THRU ROOF
GPH	-	GALLONS PER HOUR			
			W	-	WASTE
HB	-	HOSE BIBB	W/	-	WITH
HD	-	HUB DRAIN	W/O	-	WITHOUT
HP	-	HORSE POWER	WHA	-	WATER HAMMER ARRESTOR
HVAC	-	HEATING, VENTILATING & AIR CONDITIONING	WCO	-	WALL CLEANOUT
HW	-	HOT WATER	WC	-	WATER CLOSET
HWFU	-	HOT WATER FIXTURE UNITS	WF	-	WASH FOUNTAIN
HWR	-	HOT WATER RETURN	WH	-	WATER HEATER
			WM	-	WASHING MACHINE
ID	-	INSIDE DIAMETER	WSFU	-	WATER SUPPLY FIXTURE UNITS
IE	-	INVERT ELEVATION	WG	-	WATER GAUGE
IN	-	INCHES			
			YCO	-	YARD CLEAN OUT
KO	-	KNOCK-OUT			

PIPE FITTINGS

- FLANGE
- UNION
- ANCHOR
- PIPE GUIDE
- TEE BRANCH
- LINE CONTINUATION BREAK
- PLUMBING FIXTURE STOPS
- PIPELINE STRAINER
- ELBOW DOWN
- ELBOW UP
- TEE DOWN
- TEE UP
- PIPE CAP
- VALVE IN VERTICAL
- DOUBLE WYE
- WYE
- WYE WITH VENT UP

DRAINS AND CLEANOUTS

- FLOOR DRAIN
- FLOOR SINK
- ROOF DRAIN
- HUB DRAIN
- FIXTURE WASTE TRAP
- CO — CLEANOUT
- FCO — FLOOR CLEANOUT

PIPING SYSTEM LABELS

WATER PIPING SYSTEMS:

- COLD WATER
- HOT WATER
- HOT WATER RETURN
- NP — NON-POTABLE WATER
- F — FIRE PROTECTION

WASTE AND VENT SYSTEMS:

- CWV — CLEARWATER VENT
- CWW — CLEARWATER WASTE
- OD — OVERFLOW DRAIN LINE
- ST — STORM
- SSD — SUBSOIL DRAIN LINE
- UNDERFLOOR FOR WASTE OR SOIL, SUBSOIL, STORM & FORCE MAIN
- SANITARY VENT
- SAN — WASTE OR SOIL LINE

SITE PIPING SYSTEMS:

- SAN — SANITARY SEWER
- ST — STORM SEWER
- W — WATER LINE

NOTE:
(X) PRIOR TO SYSTEM TYPE DENOTES EXISTING PIPING
(F) PRIOR TO SYSTEM TYPE DENOTES FUTURE PIPING

PIPE VALVES AND SPECIALTIES

- ANGLE VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- DRAIN VALVE
- GAS SHUTOFF VALVE
- GATE VALVE
- BACKFLOW PREVENTOR
- THERMOMETER
- HB — HOSE BIBB AND WALL HYDRANT
- WATER HAMMER ARRESTOR
- PRESSURE RELIEF VALVE

REFERENCE SYMBOLS

- DETAIL REFERENCE — TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES SHEET NUMBER
- SECTION REFERENCE — TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES SHEET NUMBER
- ELEVATION SYMBOL
- EQUIPMENT NAME AND NUMBER
- PLAN NOTE NUMBER
- REVISION NUMBER
- POINT OF CONNECTION
- POINT OF DISCONNECTION

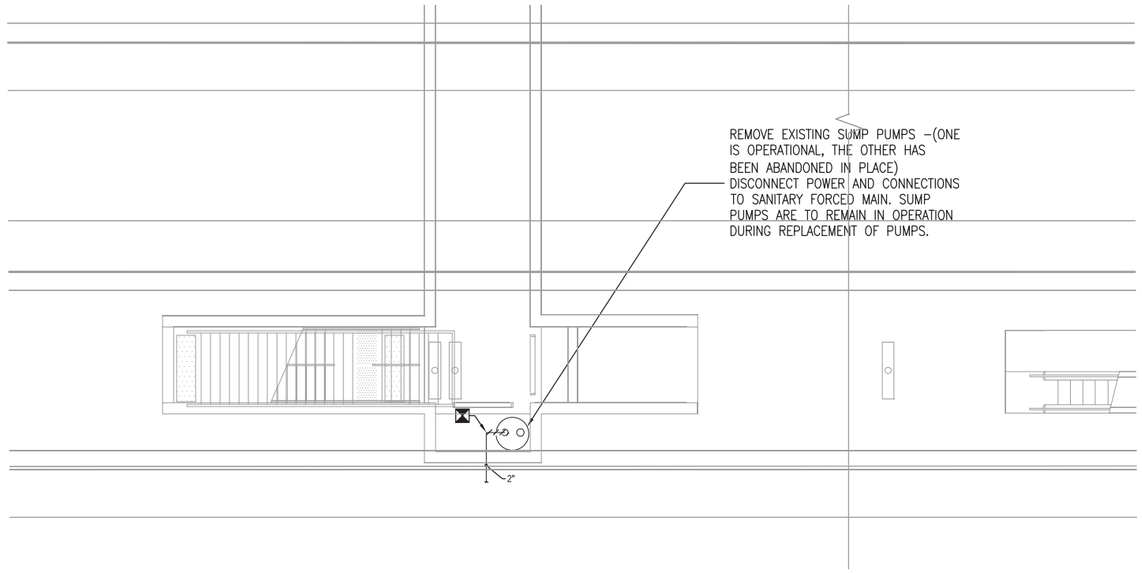
PLUMBING EQUIPMENT SCHEDULE

TAG	MANUFACTURER	MODEL NO.	REMARKS
SP-1 SP-2	WEIL	MODEL 2437 PUMP 2613 REMOVAL SYSTEM 8100 CONTROL PANEL 8235 LEVEL CONTROL 8431 HIGH WATER ALARM	1 1/2 HP, 120 VOLT, 1 PHASE, DUPLEX SUMP PUMP ASSEMBLY, 25 FT/HD, CAST IRON PUMP CASING, CAST IRON VOLUTE, 40 GPM, REMOVAL SYSTEM, CONTROL PANEL, LEVEL CONTROL, HIGH WATER ALARM,
SP-3	HYDROMATIC	SERIES CSS/3V	3/10 HP, 120 VOLT, 1 PHASE, SUMP PUMP AND 18"X22" 20 GALLON BASIN ASSEMBLY, 30 GPM @ 15 FT/HD, CAST IN-PLACE BASIN, CAST IRON PUMP CASING, PLASTIC VOLUTE.

PLUMBING DRAIN AND CLEANOUT SCHEDULE

TAG	MANUFACTURER	MODEL NO.	REMARKS
FCO	ZURN	Z1474	CAST IRON BODY, HEAVY DUTY CLEANOUT HOUSING, WITH NICKEL BRONZE TOP AND INTERNAL CLEANOUT.
YCO	ZURN	Z1440-BP	CAST IRON BODY FERRULE WITH BRONZE PLUG. PROVIDE WITH FROST SLEEVE AND HEAVY DUTY WATER TIGHT TOP.
WCO	ZURN	Z1468	ROUND STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW, BRONZE RAISED HEX HEAD PLUG.
CO	ZURN	Z1440-BP	CAST IRON BODY FERRULE WITH BRONZE PLUG.

P-000



1 / P–100 TUNNEL LEVEL–PLUMBING DEMOLITION PLAN
1/8"=1'–0"

0 4' 8'

N

GENERAL NOTES:

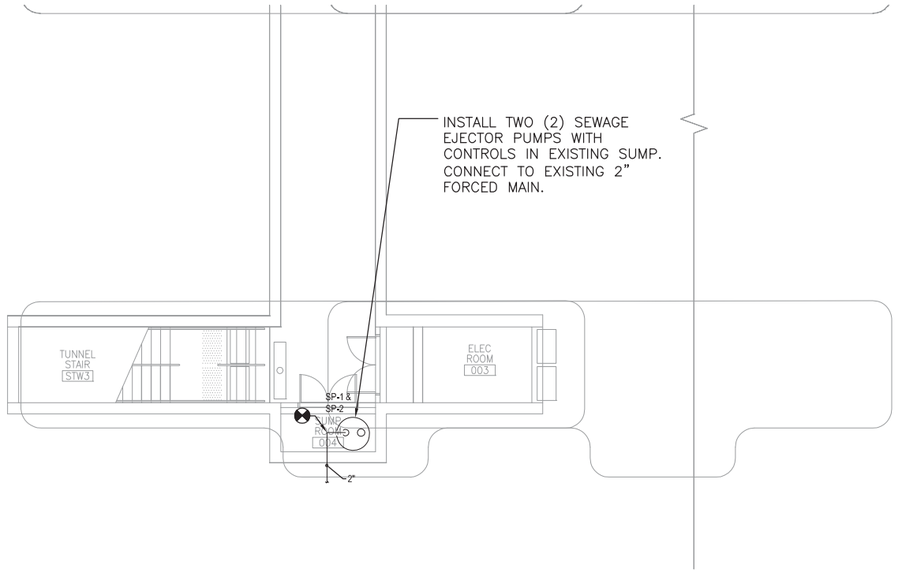
1) COORDINATE REMOVAL OF SUMP PUMPS WITH ELECTRICAL CONTRACTOR.
2) AT LEAST ONE SUMP PUMP IS TO REMAIN IN OPERATION DURING REMOVAL AND INSTALLATION OF NEW PUMPS.
3) REPLACE SUMP COVERS.

P–100

PROJECT NO: 1000–40–70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN TUNNEL LEVEL – PLUMBING DEMO PLAN	SHEET 68	E

FILE NAME : L:\JOBS2010\20100072–01\CAD\PLUMBING\DGN\00\SHEETS\2010–0072–01 P100.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

WISDOT/CADDS SHEET 44



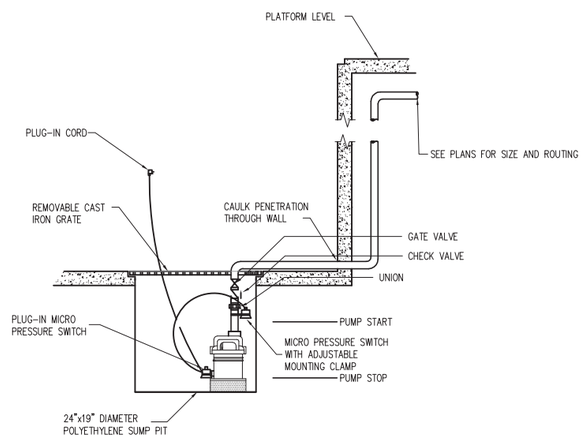
1 / P-101 TUNNEL LEVEL – PLUMBING CONSTRUCTION PLAN
1/8"=1'-0"

0 4' 8'

N

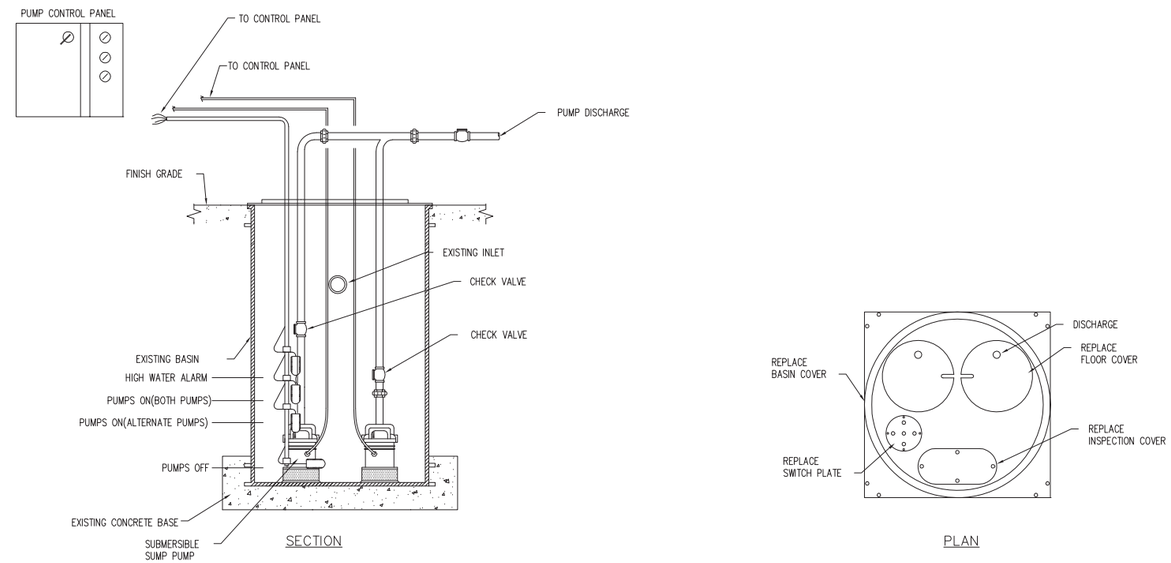
GENERAL NOTES:

1) COORDINATE INSTALLATION OF SUMP PUMPS WITH ELECTRICAL CONTRACTOR.
2) AT LEAST ONE SUMP PUMP IN THE MAIN TUNNEL SUMP, IS TO REMAIN IN OPERATION DURING REMOVAL AND INSTALLATION OF NEW PUMPS.
3) REPLACE SUMP COVERS AS INDICATED ON DETAIL BELOW
4) CLEAN BOTTOM OF BASIN AND REPAIR ANY DEFICIENCIES
5) CONNECT DISCHARGE TO EXISTING SANITARY FORCED MAIN.



SECTION

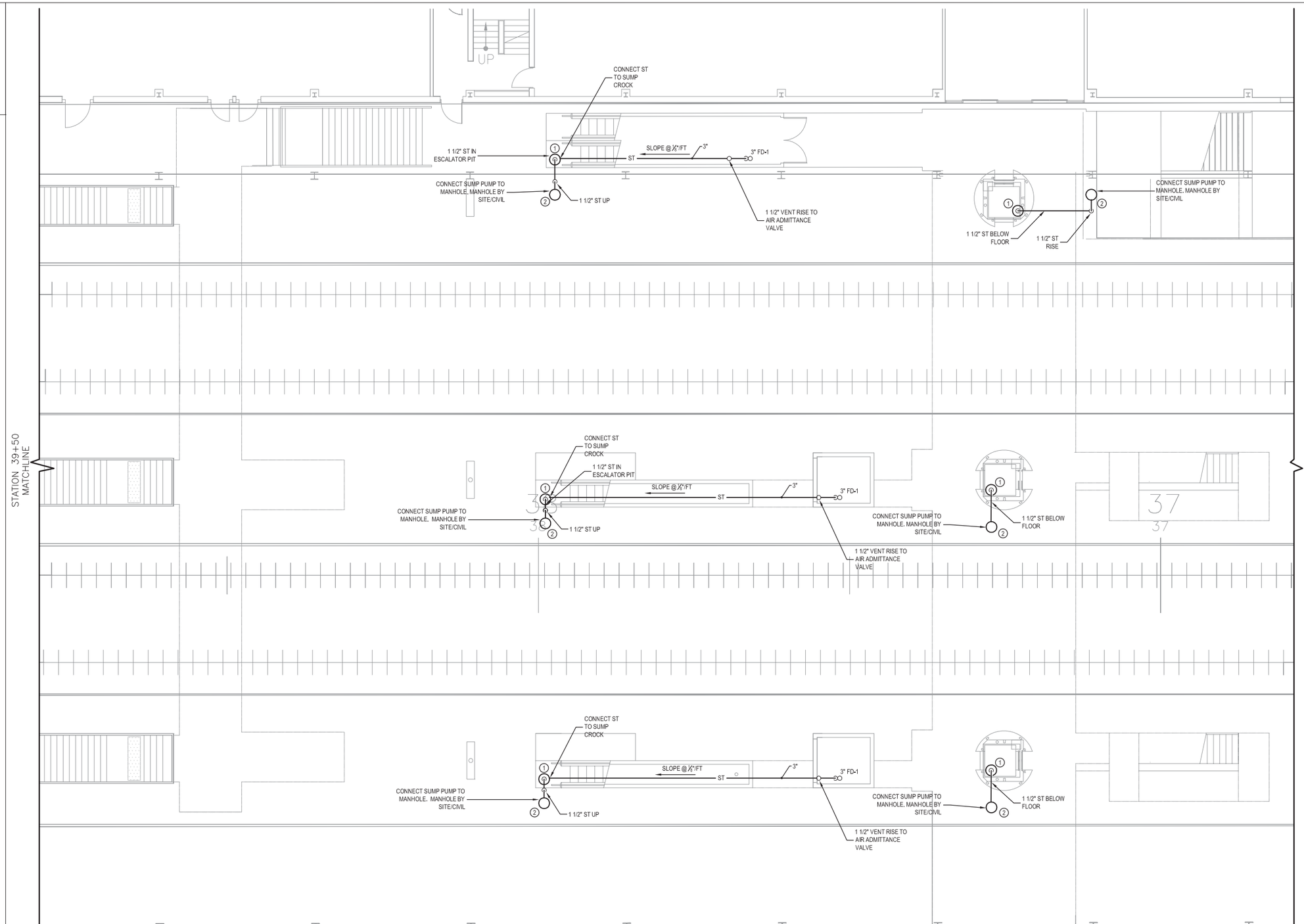
SUMP PUMP - SIMPLEX SYSTEM 2
No Scale



SUMP PUMPS SP-1 & SP-2 1
No Scale

P-101

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN TUNNEL LEVEL – PLUMBING CONSTRUCTION PLAN	SHEET 69 E



GENERAL NOTES:

1) ROUTE CLEARWATER FORCED MAIN UNDER PLATFORM AND TRACKS TO EXISTING SUMP PIT IN TUNNEL. SEE P101 FOR TUNNEL SUMP PUMP DETAILS AND PIPING.
2) COORDINATE INSTALLATION OF SUMP PUMP WITH ELECTRICAL ENGINEER.

SHEET NOTES:

(1) SUMP PUMP INSTALLED IN ESCALATOR OR ELEVATOR PIT. PIPE DISCHARGE BELOW GRADE. SEE DETAIL 2 ON SHEET P101.

(2) CONNECT DISCHARGE OF SUMP PUMPS TO MANHOLES AS SHOWN. FIELD COORDINATE EXACT LOCATION OF MANHOLE WITH SITE CONTRACTOR.

1 / P-102 PLATFORM LEVEL – PLUMBING SYSTEMS PLAN (STAT. 39+50 TO 37+50)

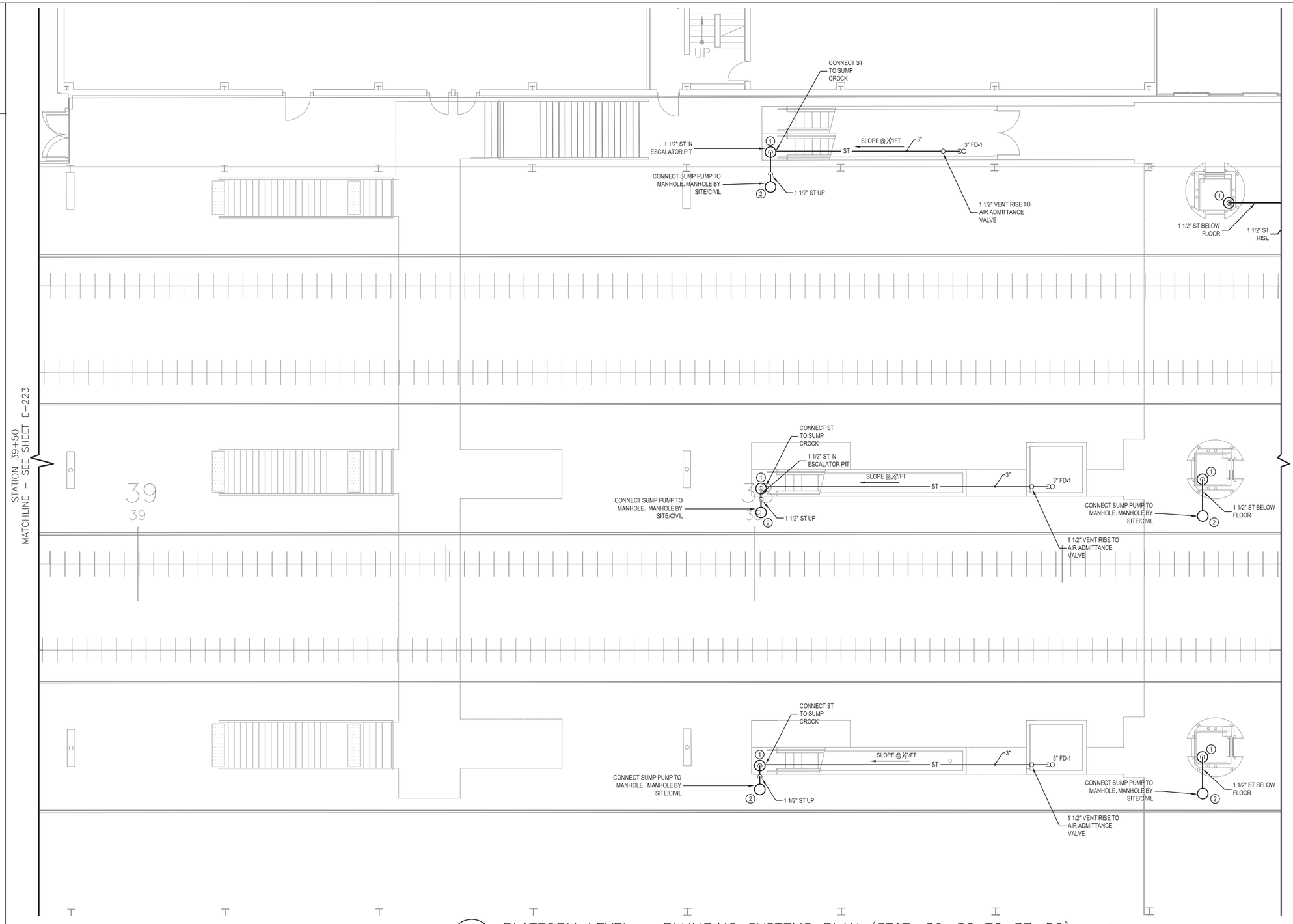
1/8"=1'-0"

0 4' 8'

N

P-102

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY:MILWAUKEE	PLAN PLATFORM LEVEL – PLUMBING SYSTEMS PLAN (STAT. 39+50 TO 37+50)	SHEET 70	E



GENERAL NOTES:

1) ROUTE CLEARWATER FORCED MAIN UNDER PLATFORM AND TRACKS TO EXISTING SUMP PIT IN TUNNEL. SEE P101 FOR TUNNEL SUMP PUMP DETAILS AND PIPING.
2) COORDINATE INSTALLATION OF SUMP PUMP WITH ELECTRICAL ENGINEER.

SHEET NOTES:

(1) SUMP PUMP INSTALLED IN ESCALATOR PIT. PIPE DISCHARGE BELOW GRADE. SEE DETAIL.

(2) CONNECT DISCHARGE OF SUMP PUMPS TO TUNNEL SUMP PUMP.

1 / P-224 PLATFORM LEVEL – PLUMBING SYSTEMS PLAN (STAT. 39+50 TO 37+50)

1/8"=1'-0"

0 4' 8'

N

P-224

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PLATFORM LEVEL – PLUMBING SYSTEMS PLAN (STAT. 39+50 TO 37+50)	SHEET 71	E

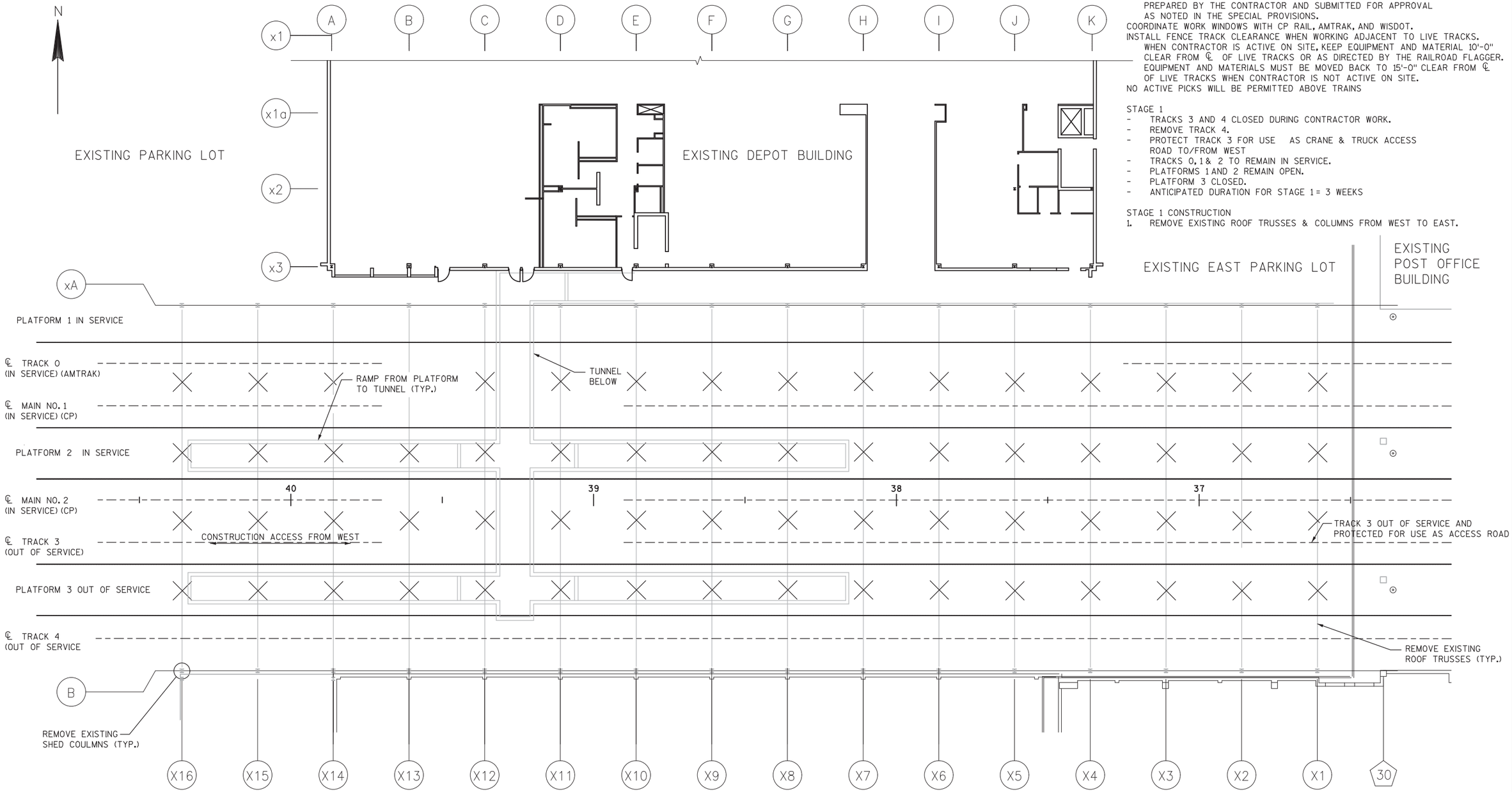
FILE NAME : L:\JOBS2010\20100072-01\CAD\PLUMBING\DGN\00\SHEETS\2010-0072-01 P224.DWG PLOT DATE : 05/31/2013 PLOT BY : MME PLOT NAME : _____

CONSTRUCTION STAGING NOTES:

DETAILED CONSTRUCTION STAGING PLANS AND SCHEDULES SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL AS NOTED IN THE SPECIAL PROVISIONS.
COORDINATE WORK WINDOWS WITH CP RAIL, AMTRAK, AND WISDOT.
INSTALL FENCE TRACK CLEARANCE WHEN WORKING ADJACENT TO LIVE TRACKS. WHEN CONTRACTOR IS ACTIVE ON SITE, KEEP EQUIPMENT AND MATERIAL 10'-0" CLEAR FROM ℄ OF LIVE TRACKS OR AS DIRECTED BY THE RAILROAD FLAGGER. EQUIPMENT AND MATERIALS MUST BE MOVED BACK TO 15'-0" CLEAR FROM ℄ OF LIVE TRACKS WHEN CONTRACTOR IS NOT ACTIVE ON SITE.
NO ACTIVE PICKS WILL BE PERMITTED ABOVE TRAINS

STAGE 1
- TRACKS 3 AND 4 CLOSED DURING CONTRACTOR WORK.
- REMOVE TRACK 4.
- PROTECT TRACK 3 FOR USE AS CRANE & TRUCK ACCESS ROAD TO/FROM WEST
- TRACKS 0, 1 & 2 TO REMAIN IN SERVICE.
- PLATFORMS 1 AND 2 REMAIN OPEN.
- PLATFORM 3 CLOSED.
- ANTICIPATED DURATION FOR STAGE 1 = 3 WEEKS

STAGE 1 CONSTRUCTION
1. REMOVE EXISTING ROOF TRUSSES & COLUMNS FROM WEST TO EAST.



EXISTING POST OFFICE BUILDING

STAGE 1 PLAN - SHED SUPERSTRUCTURE DEMOLITION

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 72	E

CONSTRUCTION STAGING NOTES:

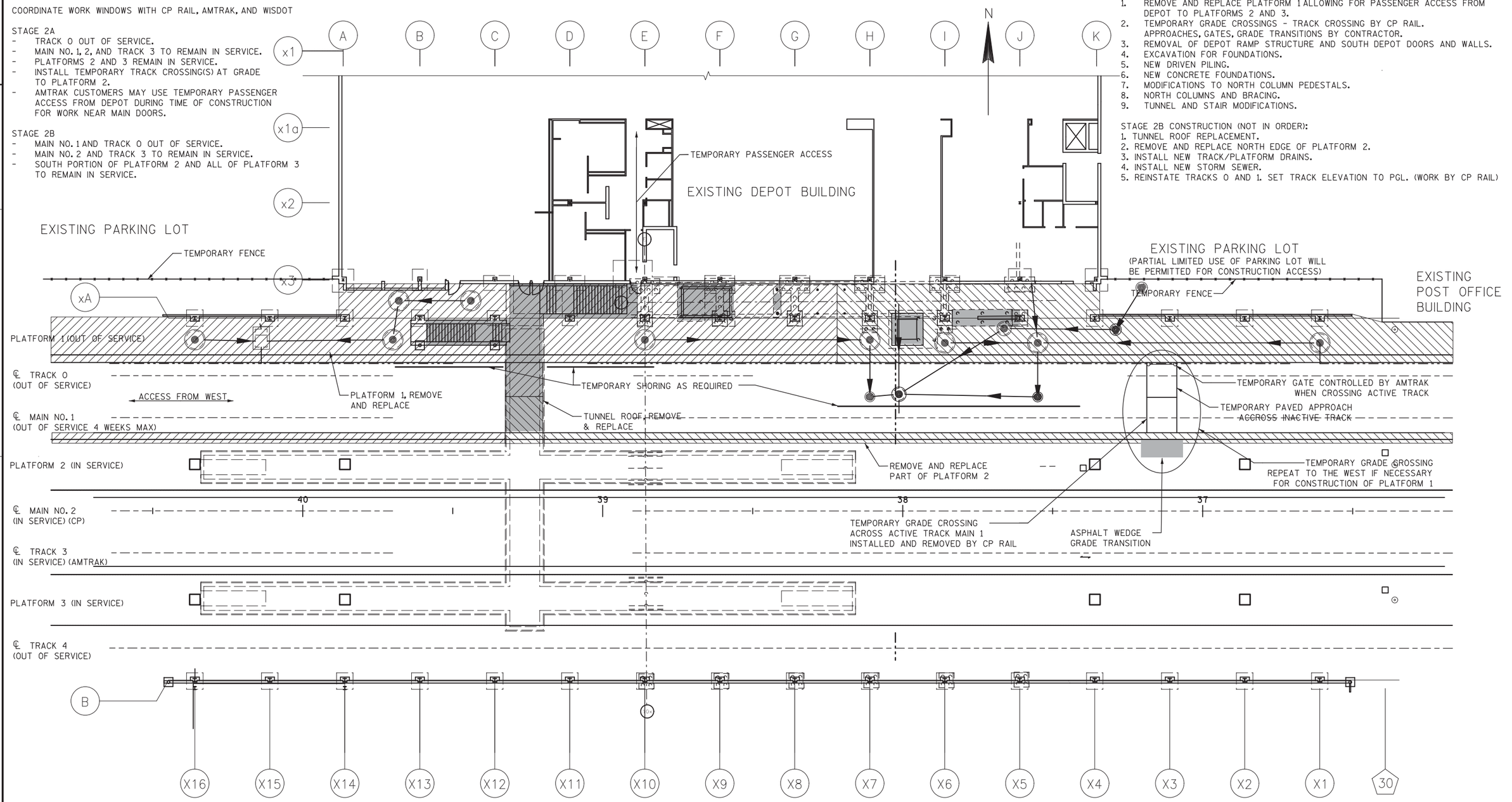
COORDINATE WORK WINDOWS WITH CP RAIL, AMTRAK, AND WISDOT

STAGE 2A
- TRACK 0 OUT OF SERVICE.
- MAIN NO. 1, 2, AND TRACK 3 TO REMAIN IN SERVICE.
- PLATFORMS 2 AND 3 REMAIN IN SERVICE.
- INSTALL TEMPORARY TRACK CROSSING(S) AT GRADE TO PLATFORM 2.
- AMTRAK CUSTOMERS MAY USE TEMPORARY PASSENGER ACCESS FROM DEPOT DURING TIME OF CONSTRUCTION FOR WORK NEAR MAIN DOORS.

STAGE 2B
- MAIN NO. 1 AND TRACK 0 OUT OF SERVICE.
- MAIN NO. 2 AND TRACK 3 TO REMAIN IN SERVICE.
- SOUTH PORTION OF PLATFORM 2 AND ALL OF PLATFORM 3 TO REMAIN IN SERVICE.

STAGE 2A CONSTRUCTION (NOT IN ORDER):
1. REMOVE AND REPLACE PLATFORM 1 ALLOWING FOR PASSENGER ACCESS FROM DEPOT TO PLATFORMS 2 AND 3.
2. TEMPORARY GRADE CROSSINGS - TRACK CROSSING BY CP RAIL. APPROACHES, GATES, GRADE TRANSITIONS BY CONTRACTOR.
3. REMOVAL OF DEPOT RAMP STRUCTURE AND SOUTH DEPOT DOORS AND WALLS.
4. EXCAVATION FOR FOUNDATIONS.
5. NEW DRIVEN PILING.
6. NEW CONCRETE FOUNDATIONS.
7. MODIFICATIONS TO NORTH COLUMN PEDESTALS.
8. NORTH COLUMNS AND BRACING.
9. TUNNEL AND STAIR MODIFICATIONS.

STAGE 2B CONSTRUCTION (NOT IN ORDER):
1. TUNNEL ROOF REPLACEMENT.
2. REMOVE AND REPLACE NORTH EDGE OF PLATFORM 2.
3. INSTALL NEW TRACK/PLATFORM DRAINS.
4. INSTALL NEW STORM SEWER.
5. REINSTATE TRACKS 0 AND 1. SET TRACK ELEVATION TO PGL. (WORK BY CP RAIL)



STAGE 2 PLAN - NORTH FOUNDATIONS, NORTH TUNNEL & PLATFORM 1
(OVERALL EXPECTED STAGE 2 DURATION OF 8 TO 10 WEEKS)

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 73	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Construction\Staging PlanB.dgn | PLOT DATE : 5/31/2013 | PLOT BY : bweigand | PLOT NAME : | PLOT SCALE : 1:32

CONSTRUCTION STAGING NOTES:

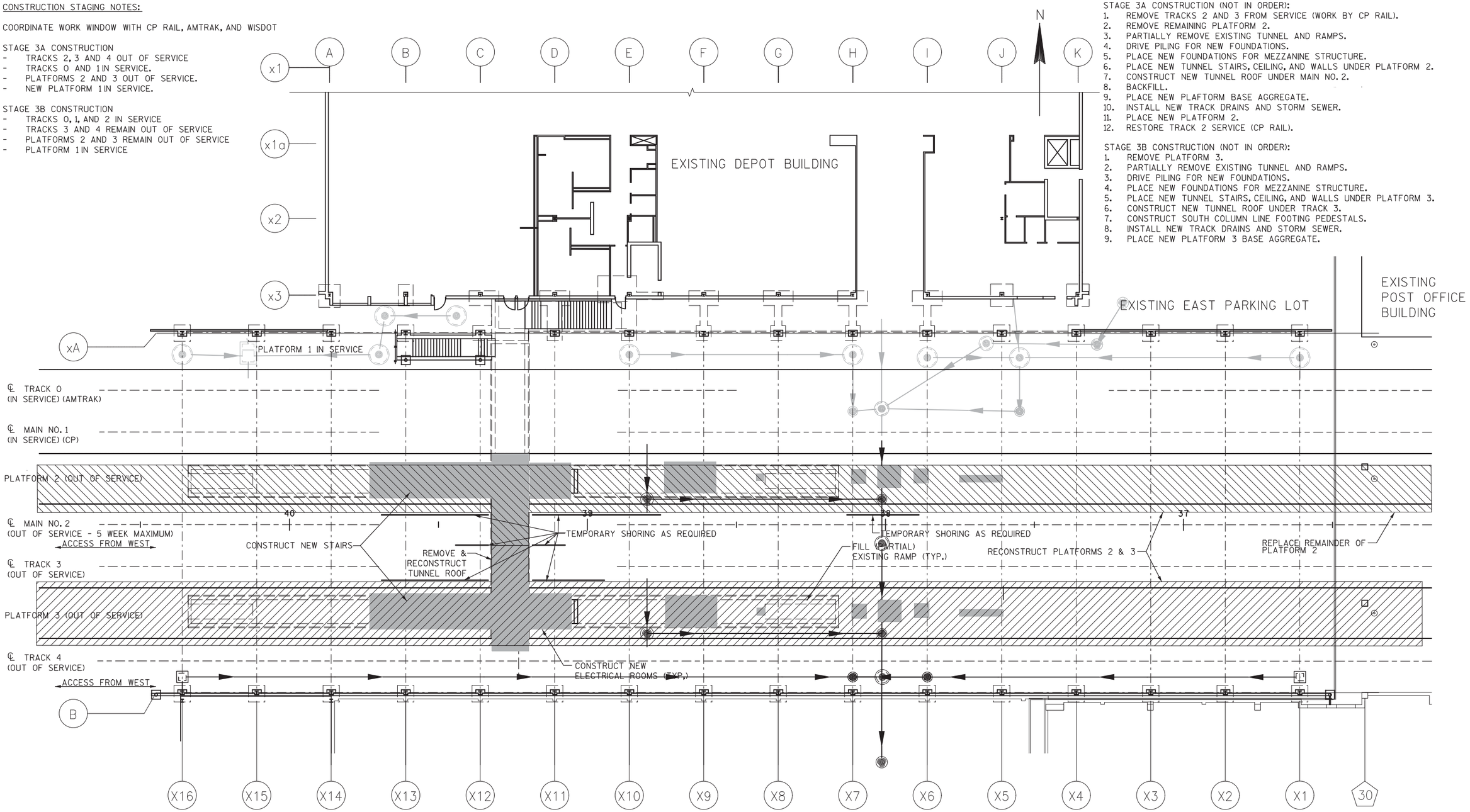
COORDINATE WORK WINDOW WITH CP RAIL, AMTRAK, AND WISDOT

STAGE 3A CONSTRUCTION
- TRACKS 2, 3 AND 4 OUT OF SERVICE
- TRACKS 0 AND 1 IN SERVICE.
- PLATFORMS 2 AND 3 OUT OF SERVICE.
- NEW PLATFORM 1 IN SERVICE.

STAGE 3B CONSTRUCTION
- TRACKS 0, 1, AND 2 IN SERVICE
- TRACKS 3 AND 4 REMAIN OUT OF SERVICE
- PLATFORMS 2 AND 3 REMAIN OUT OF SERVICE
- PLATFORM 1 IN SERVICE

STAGE 3A CONSTRUCTION (NOT IN ORDER):
1. REMOVE TRACKS 2 AND 3 FROM SERVICE (WORK BY CP RAIL).
2. REMOVE REMAINING PLATFORM 2.
3. PARTIALLY REMOVE EXISTING TUNNEL AND RAMPS.
4. DRIVE PILING FOR NEW FOUNDATIONS.
5. PLACE NEW FOUNDATIONS FOR MEZZANINE STRUCTURE.
6. PLACE NEW TUNNEL STAIRS, CEILING, AND WALLS UNDER PLATFORM 2.
7. CONSTRUCT NEW TUNNEL ROOF UNDER MAIN NO. 2.
8. BACKFILL.
9. PLACE NEW PLAFTORM BASE AGGREGATE.
10. INSTALL NEW TRACK DRAINS AND STORM SEWER.
11. PLACE NEW PLATFORM 2.
12. RESTORE TRACK 2 SERVICE (CP RAIL).

STAGE 3B CONSTRUCTION (NOT IN ORDER):
1. REMOVE PLATFORM 3.
2. PARTIALLY REMOVE EXISTING TUNNEL AND RAMPS.
3. DRIVE PILING FOR NEW FOUNDATIONS.
4. PLACE NEW FOUNDATIONS FOR MEZZANINE STRUCTURE.
5. PLACE NEW TUNNEL STAIRS, CEILING, AND WALLS UNDER PLATFORM 3.
6. CONSTRUCT NEW TUNNEL ROOF UNDER TRACK 3.
7. CONSTRUCT SOUTH COLUMN LINE FOOTING PEDESTALS.
8. INSTALL NEW TRACK DRAINS AND STORM SEWER.
9. PLACE NEW PLATFORM 3 BASE AGGREGATE.



LEGEND:

STAGE 3A

STAGE 3B

STAGE 3 PLAN - SOUTH FOUNDATIONS, SOUTH TUNNEL & PLATFORM 2
(OVERALL EXPECTED STAGE 3 DURATION OF 9 TO 11 WEEKS)

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 74	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Construction\Staging PlanC.dgn PLOT DATE : 5/31/2013 PLOT BY : bweigand PLOT NAME : PLOT SCALE : 1:32

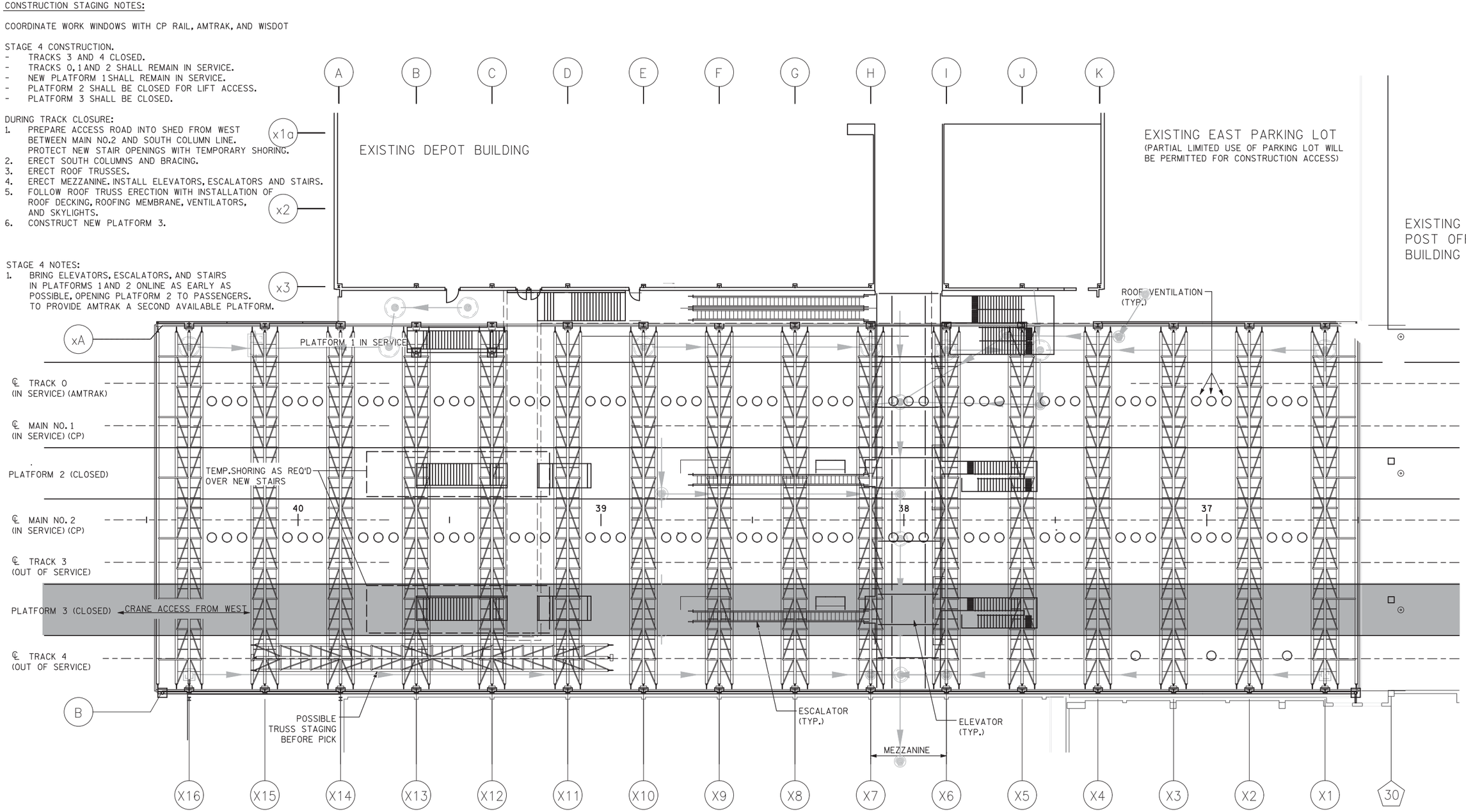
CONSTRUCTION STAGING NOTES:

COORDINATE WORK WINDOWS WITH CP RAIL, AMTRAK, AND WISDOT

STAGE 4 CONSTRUCTION.
- TRACKS 3 AND 4 CLOSED.
- TRACKS 0, 1 AND 2 SHALL REMAIN IN SERVICE.
- NEW PLATFORM 1 SHALL REMAIN IN SERVICE.
- PLATFORM 2 SHALL BE CLOSED FOR LIFT ACCESS.
- PLATFORM 3 SHALL BE CLOSED.

DURING TRACK CLOSURE:
1. PREPARE ACCESS ROAD INTO SHED FROM WEST BETWEEN MAIN NO.2 AND SOUTH COLUMN LINE. PROTECT NEW STAIR OPENINGS WITH TEMPORARY SHORING.
2. ERECT SOUTH COLUMNS AND BRACING.
3. ERECT ROOF TRUSSES.
4. ERECT MEZZANINE. INSTALL ELEVATORS, ESCALATORS AND STAIRS.
5. FOLLOW ROOF TRUSS ERECTION WITH INSTALLATION OF ROOF DECKING, ROOFING MEMBRANE, VENTILATORS, AND SKYLIGHTS.
6. CONSTRUCT NEW PLATFORM 3.

STAGE 4 NOTES:
1. BRING ELEVATORS, ESCALATORS, AND STAIRS IN PLATFORMS 1 AND 2 ONLINE AS EARLY AS POSSIBLE, OPENING PLATFORM 2 TO PASSENGERS. TO PROVIDE AMTRAK A SECOND AVAILABLE PLATFORM.



EXISTING POST OFFICE BUILDING

STAGE 4 PLAN - NEW SUPERSTRUCTURE AND PLATFORM 3

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 75	E

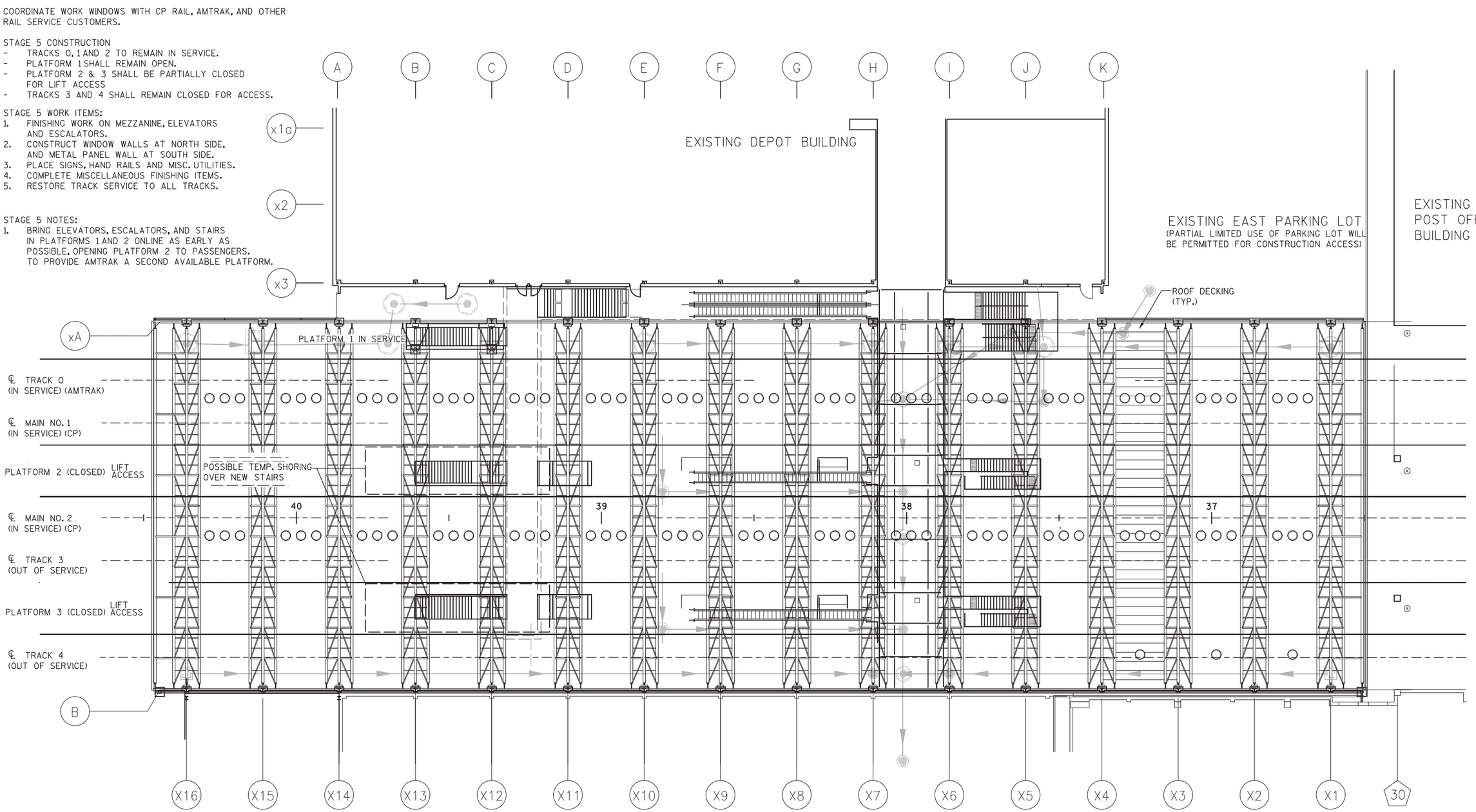
CONSTRUCTION STAGING NOTES:

COORDINATE WORK WINDOWS WITH CP RAIL, AMTRAK, AND OTHER RAIL SERVICE CUSTOMERS.

STAGE 5 CONSTRUCTION
- TRACKS 0, 1 AND 2 TO REMAIN IN SERVICE.
- PLATFORM 1 SHALL REMAIN OPEN.
- PLATFORM 2 & 3 SHALL BE PARTIALLY CLOSED FOR LIFT ACCESS
- TRACKS 3 AND 4 SHALL REMAIN CLOSED FOR ACCESS.

STAGE 5 WORK ITEMS:
1. FINISHING WORK ON MEZZANINE, ELEVATORS AND ESCALATORS.
2. CONSTRUCT WINDOW WALLS AT NORTH SIDE, AND METAL PANEL WALL AT SOUTH SIDE.
3. PLACE SIGNS, HAND RAILS AND MISC. UTILITIES.
4. COMPLETE MISCELLANEOUS FINISHING ITEMS.
5. RESTORE TRACK SERVICE TO ALL TRACKS.

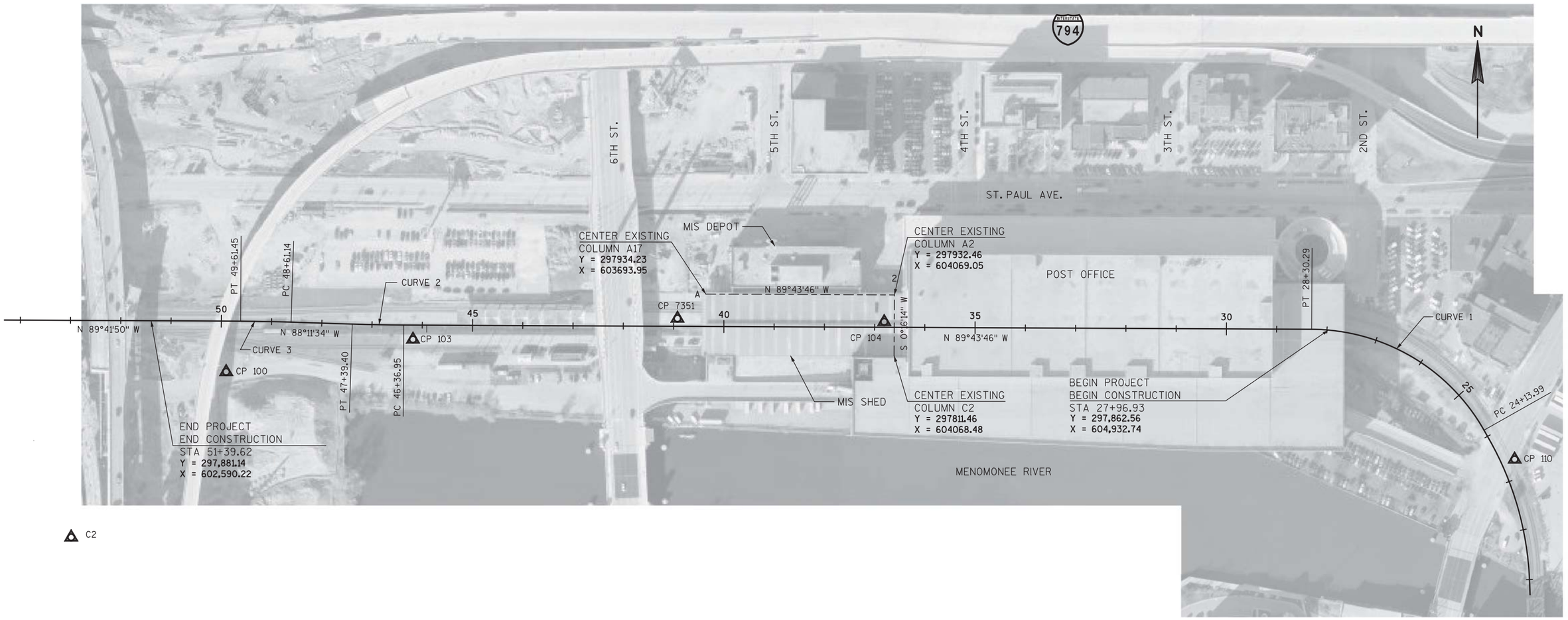
STAGE 5 NOTES:
1. BRING ELEVATORS, ESCALATORS, AND STAIRS IN PLATFORMS 1 AND 2 ONLINE AS EARLY AS POSSIBLE, OPENING PLATFORM 2 TO PASSENGERS. TO PROVIDE AMTRAK A SECOND AVAILABLE PLATFORM.



EXISTING POST OFFICE BUILDING

STAGE 5 - MISC ITEMS AND FINISHING

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 5	SHEET 76	E



CONTROL POINTS

CP NO.	STATION	COORDINATES	DESCRIPTION	BM NO.	ELEV.
S1		Y: 296,083.45 X: 602,426.60	BRASS CAP	BM 1	589.54
C2		Y: 297,450.09 X: 602,431.18	BRASS CAP	BM 2	591.50
100	49+89 LT	Y: 297,779.44 X: 602,739.51	PK NAIL	BM 3	587.15
103	46+18 LT	Y: 297,844.08 X: 603,111.15	CROSSCUT IN CONCRETE PLATFORM	BM 4	587.59
7351	40+92 RT	Y: 297,885.72 X: 603,637.42	CROSSCUT IN CONCRETE PLATFORM	BM 5	586.86
104	36+81 RT	Y: 297,879.00 X: 604,048.78	PK NAIL	BM 6	586.55
110	23+36 RT	Y: 297,605.23 X: 605,303.17	PK NAIL	BM 7	591.08

CURVE 1
PISTA 26+43.67
Y: 297863.03
X: 605129.10
PC STA 24+13.99
Y: 297663.19
X: 605242.30
PT STA 28+30.29
Y: 297864.12
X: 604899.43
R = 396.20
D = 14°30'00"
L = 416.29
DELTA = 60°12'06" L
T = 229.68

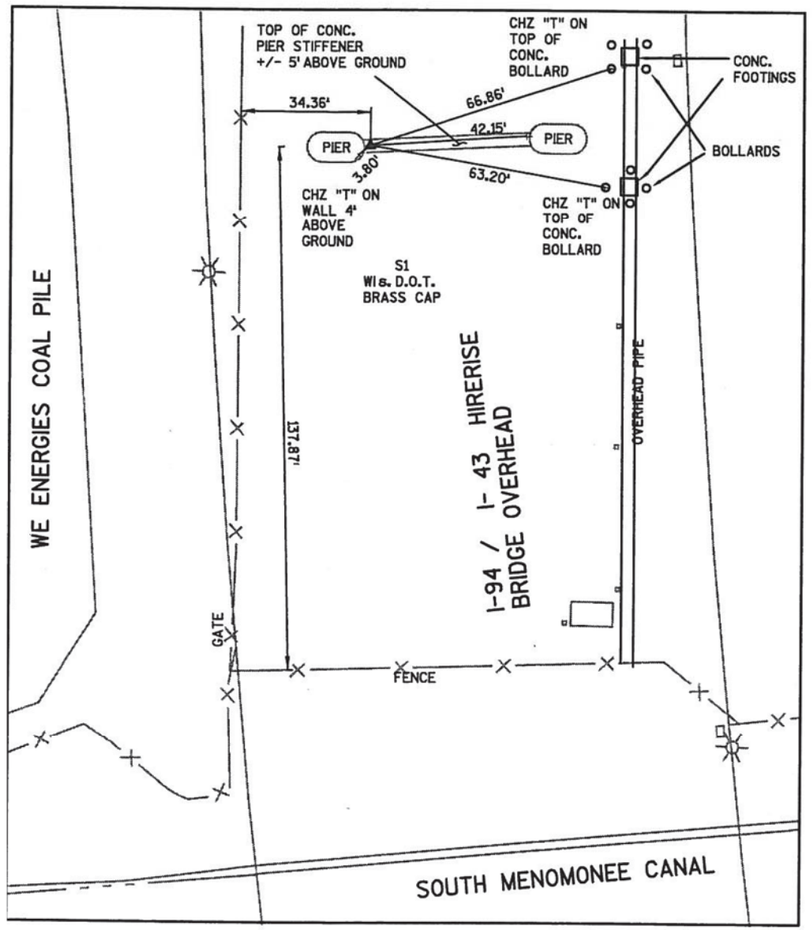
CURVE 2
PISTA 46+88.18
Y: 297872.90
X: 603041.56
PC STA 46+36.95
Y: 297872.65
X: 603092.79
PT STA 47+39.40
Y: 297874.51
X: 602990.3
R = 3819.83
D = 1°30'00"
L = 102.45
DELTA = 1°32'12" R
T = 51.23

CURVE 3
PISTA 49+11.30
Y: 297879.93
X: 602818.54
PC STA 48+61.14
Y: 297878.35
X: 602868.67
PT STA 49+61.45
Y: 297880.20
X: 602768.39
R = 3819.83
D = 1°30'00"
L = 100.31
DELTA = 1°30'16" L
T = 50.16

0 100 200
SCALE, FEET

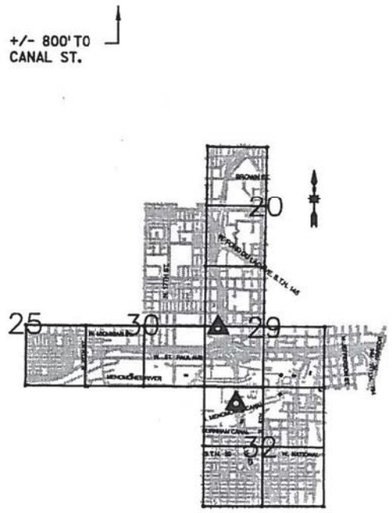
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	ALIGNMENT AND TIES	SHEET 77	E

2



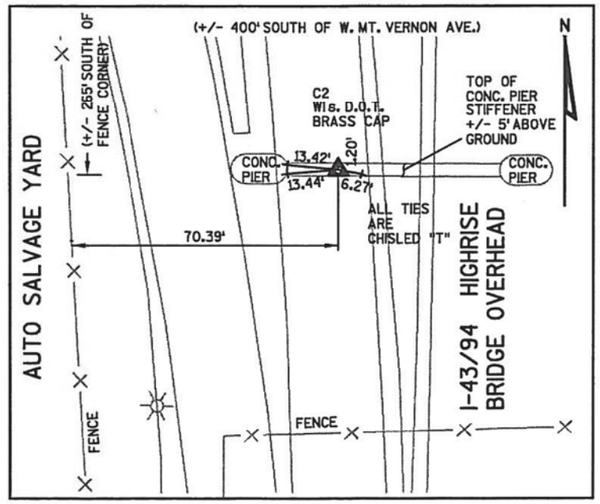
CONTROL POINT S1

BRASS CAP
N 296083.45
E 602426.60
ELEV: 589.54



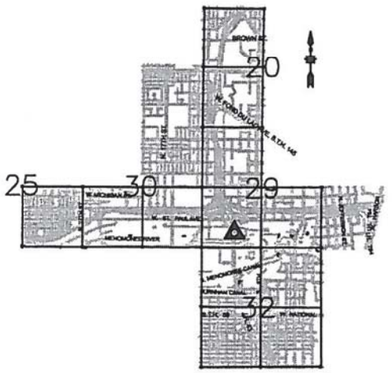
TO ACCESS THIS POINT

CHECK IN AT THE WE-ENERGIES VALLEY POWER PLANT OFFICE. ENTER THROUGH CANAL ST. GATE AND HEAD SOUTH TO COAL PILE ON THE RIGHT, THEN GO EAST UNDER FREEWAY, THEN SOUTH TO PIERS AND POINT.



CONTROL POINT C2

BRASS CAP
N 297450.09
E 602431.18
ELEV: 591.50



LEGEND

▲ CONTROL POINT

X CHISLED "X"

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	ALIGNMENT AND TIES	SHEET 78	E

DATE 06MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1000-40-70 QUANTITY
0010	108.4400	CPM PROGRESS SCHEDULE	EACH	1.000	1.000
0020	204.0265	ABANDONING WELLS	EACH	4.000	4.000
0030	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	2,900.000	2,900.000
0040	213.0100	FINISHING ROADWAY (PROJECT) 01. 1000-40-70	EACH	1.000	1.000
0050	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	100.000	100.000
0060	310.0110	BASE AGGREGATE OPEN GRADED	TON	440.000	440.000
0070	616.0800.S	FENCE TRACK CLEARANCE	LF	2,400.000	2,400.000
0080	619.1000	MOBILIZATION	EACH	1.000	1.000
0090	625.0500	SALVAGED TOPSOIL	SY	300.000	300.000
0100	627.0200	MULCHING	SY	300.000	300.000
0110	628.7560	TRACKING PADS	EACH	2.000	2.000
0120	629.0205	FERTILIZER TYPE A	CWT	0.200	0.200
0130	630.0140	SEEDING MIXTURE NO. 40	LB	5.000	5.000
0140	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0150	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1000-40-70	EACH	1.000	1.000
0160	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. MILWAUKEE INTERMODAL STATION	LS	1.000	1.000
0170	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	9,600.000	9,600.000
0180	656.0100	ELECTRICAL SERVICE METER SOCKET (LOCATION) 01. MILWAUKEE INTERMODAL STATION	LS	1.000	1.000
0190	999.1500.S	CRACK AND DAMAGE SURVEY	LS	1.000	1.000
0200	SPV.0060	SPECIAL 01. PLATFORM SNOW REMOVAL	EACH	4.000	4.000
0210	SPV.0090	SPECIAL 01. SUBSURFACE TRACK DRAIN WRAPPED	LF	5,800.000	5,800.000
0220	SPV.0090	SPECIAL 02. SUBSURFACE TRACK DRAIN UNPERFORATED	LF	162.000	162.000
0230	SPV.0105	SPECIAL 01. ABANDONING SEWER	LS	1.000	1.000
0240	SPV.0105	SPECIAL 02. ADJUSTING SEWER MANHOLE COVER	LS	1.000	1.000
0250	SPV.0105	SPECIAL 03. ABANDON WATERMAIN	LS	1.000	1.000
0260	SPV.0105	SPECIAL 04. HDPE WATER SERVICE	LS	1.000	1.000
0270	SPV.0105	SPECIAL 05. REINFORCED CONCRETE PLATFORM	LS	1.000	1.000
0280	SPV.0105	SPECIAL 06. CONCRETE RETAINING WALL AND CHAIN LINK FENCE	LS	1.000	1.000
0290	SPV.0105	SPECIAL 07. METAL ROOF DECK	LS	1.000	1.000
0300	SPV.0105	SPECIAL 08. COLD FORMED METAL FRAMING	LS	1.000	1.000
0310	SPV.0105	SPECIAL 09. METAL FABRICATIONS	LS	1.000	1.000
0320	SPV.0105	SPECIAL 10. RAILINGS AND HANDRAILS	LS	1.000	1.000
0330	SPV.0105	SPECIAL 11. LIGHTED HANDRAIL SYSTEM	LS	1.000	1.000
0340	SPV.0105	SPECIAL 12. METAL STAIR NOSINGS	LS	1.000	1.000
0350	SPV.0105	SPECIAL 13. ARCHITECTURAL GLASS RAILING	LS	1.000	1.000
0360	SPV.0105	SPECIAL 14. ALUMINUM DOWNSPOUTS	LS	1.000	1.000
0370	SPV.0105	SPECIAL 15. BUILDING INSULATION	LS	1.000	1.000
0380	SPV.0105	SPECIAL 16. COMPOSITE METAL PANELS	LS	1.000	1.000
0390	SPV.0105	SPECIAL 17. CORRUGATED METAL PANELS	LS	1.000	1.000
0400	SPV.0105	SPECIAL 18. EPDM MEMBRANE ROOFING	LS	1.000	1.000
0410	SPV.0105	SPECIAL 19. SHEET METAL GUTTERS AND FLASHING	LS	1.000	1.000
0420	SPV.0105	SPECIAL 20. JOINT SEALANTS	LS	1.000	1.000
0430	SPV.0105	SPECIAL 21. ALUMINUM DOORS AND FRAMES	LS	1.000	1.000
0440	SPV.0105	SPECIAL 22. ALUMINUM WINDOW WALL	LS	1.000	1.000

3

DATE 06MAR14 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1000-40-70 QUANTITY
0450	SPV.0105	SPECIAL 23. AUTOMATIC ENTRANCE DOORS	LS	1.000	1.000
0460	SPV.0105	SPECIAL 24. METAL FRAMED SKYLIGHTS	LS	1.000	1.000
0470	SPV.0105	SPECIAL 26. GYPSUM BOARD ASSEMBLIES	LS	1.000	1.000
0480	SPV.0105	SPECIAL 27. DETECTABLE WARNING TILES	LS	1.000	1.000
0490	SPV.0105	SPECIAL 28. PAINTING	LS	1.000	1.000
0500	SPV.0105	SPECIAL 29. LOUVERS AND VENTS	LS	1.000	1.000
0510	SPV.0105	SPECIAL 30. SIGNAGE	LS	1.000	1.000
0520	SPV.0105	SPECIAL 31. HOLELESS HYDRAULIC ELEVATORS	LS	1.000	1.000
0530	SPV.0105	SPECIAL 32. HEAVY DUTY ESCALATORS	LS	1.000	1.000
0540	SPV.0105	SPECIAL 33. PRECAST CONCRETE PATCHING	LS	1.000	1.000
0550	SPV.0105	SPECIAL 35. EXHAUST VENTILATORS	LS	1.000	1.000
0560	SPV.0105	SPECIAL 36. GRAVITY VENTILATORS	LS	1.000	1.000
0570	SPV.0105	SPECIAL 37. PLUMBING WORK	LS	1.000	1.000
0580	SPV.0105	SPECIAL 38. MECHANICAL WORK	LS	1.000	1.000
0590	SPV.0105	SPECIAL 39. ELECTRICAL WORK	LS	1.000	1.000
0600	SPV.0105	SPECIAL 40. TEMPORARY SHORING	LS	1.000	1.000
0610	SPV.0105	SPECIAL 41. PILING STEEL DELIVERED AND DRIVEN AND TESTED	LS	1.000	1.000
0620	SPV.0105	SPECIAL 42. CONCRETE, STRUCTURES	LS	1.000	1.000
0630	SPV.0105	SPECIAL 43. BAR STEEL REINFORCEMENT, STRUCTURES	LS	1.000	1.000
0640	SPV.0105	SPECIAL 44. PRECAST PRESTRESSED SLAB SPANS	LS	1.000	1.000
0650	SPV.0105	SPECIAL 45. MEMBRANE WATERPROOFING	LS	1.000	1.000
0660	SPV.0105	SPECIAL 46. COMPACTED BACKFILL	LS	1.000	1.000
0670	SPV.0105	SPECIAL 47. STRUCTURAL STEEL	LS	1.000	1.000
0680	SPV.0105	SPECIAL 48. STEEL FLOOR DECKING	LS	1.000	1.000
0690	SPV.0105	SPECIAL 49. FLOOR GRINDING	LS	1.000	1.000
0700	SPV.0105	SPECIAL 50. CLEAN TUNNEL DRAIN TILES	LS	1.000	1.000
0710	SPV.0105	SPECIAL 51. STORM SEWER INSTALLATION AND ALTERATION	LS	1.000	1.000
0720	SPV.0105	SPECIAL 52. EROSION CONTROL AND INLET PROTECTION	LS	1.000	1.000
0730	SPV.0105	SPECIAL 53. SEDIMENT TANK	LS	1.000	1.000
0740	SPV.0105	SPECIAL 54. SHED DEMOLITION	LS	1.000	1.000
0750	SPV.0105	SPECIAL 55. STEAM PIPE DEMOLITION AND ALTERATION	LS	1.000	1.000
0760	SPV.0105	SPECIAL 56. CONCRETE DEMOLITION	LS	1.000	1.000
0770	SPV.0105	SPECIAL 57. REMOVE FIRE PROTECTION WATER LINES	LS	1.000	1.000
0780	SPV.0105	SPECIAL 58. BLOWER AND TUNNEL VENT PIPES DEMOLITION AND ALTERATIONS	LS	1.000	1.000
0790	SPV.0105	SPECIAL 59. SAWING	LS	1.000	1.000
0800	SPV.0105	SPECIAL 60. PLATFORM DEMOLITION	LS	1.000	1.000
0810	SPV.0105	SPECIAL 61. HANDRAIL REMOVAL	LS	1.000	1.000
0820	SPV.0105	SPECIAL 62. ASPHALT PLACEMENT AND RESTORATION	LS	1.000	1.000
0830	SPV.0105	SPECIAL 63. COLUMN FOUNDATION MONITORING	LS	1.000	1.000
0840	SPV.0105	SPECIAL 64. ALUMINUM WINDOWS	LS	1.000	1.000
0850	SPV.0105	SPECIAL 65. BALLAST MAT	LS	1.000	1.000
0860	SPV.0195	SPECIAL 01. DIRECT LANDFILL	TON	2,900.000	2,900.000

3

CIVIL ITEMS UNDERNEATH CANDIAN PACIFIC TRACK WORK (CP TO PERFORM WORK FROM BALLAST UP)

FROM	TO	205.0501.S EXCAVATION, HAULING, AND DISPOSAL OF CONTAIMINATED SOIL TON	305.0120 BASE AGGREGATE DENSE 1-1/4-INCH TON	SPV.0195.01 DIRECT LANDFILL TON	SPV.0090.01 SUBSURFACE TRACK DRAIN WRAPPED LF	SPV.0090.02 SUBSURFACE TRACK DRAIN UNPERFORATED LF	310.0110 BASE AGGREGATE OPEN GRADED TON	REMARKS
131+48	137+25	207	-	207	577	8	43	TRACK 0
137+25	138+50	497	98	497	125	8	9	TRACK 0
138+50	139+00	3	-	3	50	-	4	TRACK 0
139+00	139+50	39	-	39	-	-	-	TRACK 0
139+50	141+48	71	-	71	198	8	15	TRACK 0
233+55	239+00	31	-	31	545	18	41	MAIN NO. 1
239+00	239+50	39	-	39	-	-	-	MAIN NO. 1
239+50	245+55	217	-	217	605	36	45	MAIN NO. 1
33+55	39+00	196	-	196	545	5	41	MAIN NO. 2
39+00	39+50	39	-	39	-	-	-	MAIN NO. 2
39+50	45+55	217	-	217	605	10	45	MAIN NO. 2
433+55	439+00	196	-	196	545	18	41	TRACK 3
439+00	439+50	39	-	39	-	-	-	TRACK 3
439+50	445+55	217	-	217	605	36	45	TRACK 3
531+00	536+50	143	-	143	550	-	41	TRACK 4
536+50	541+00	569	-	569	395	5	29	TRACK 4
541+00	548+95	118	-	118	455	10	34	TRACK 4
TOTALS		**2,900**	**100**	**2,900**	**5,800**	**162**	**440**	

FINISHING ITEMS

FROM	TO	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.7560 TRACKING PADS EACH	629.0205 FERTILIZER TYPE A CWT	630.0140 SEEDING MIXTURE NO. 40 LB
Undistributed		300	300	2	0.2	5
TOTALS		**300**	**300**	**2**	**0.2**	**5**

CONSTRUCTION STAKING

FROM	TO	650.8000 RESURFACING REFERENCE LF
129+50	143+70	1,420
227+97	251+40	2,343
28+35	50+50	2,215
429+35	447+46	1,811
531+00	548+95	1,795
TOTALS		**9,600**

MISCELLANEOUS CIVIL ITEMS

FROM	TO	204.0265 ABANDONING WELLS EACH	616.0800.S FENCE TRACK CLEARANCE LF	SPV.0060.01 PLATFORM SNOW REMOVAL EACH
Undistributed		4	2,400	4
TOTALS		**4**	**2,400**	**4**

CURVE 501

ELEMENT:	CIRCULAR		
PC	533+91.50	297822.59	604338.01
PI	534+19.03	297822.72	604310.48
CC		292093.00	604310.95
PT	534+46.56	297822.59	604282.95
RADIUS:	5729.65		
DELTA:	0°33'02" Left		
DEGREE OF CURVATURE(CHORD):	1°00'00"		
LENGTH:	55.06		
TANGENT:	27.53		
CHORD:	55.06		
MIDDLE ORDINATE:	0.07		
EXTERNAL:	0.07		
TANGENT DIRECTION:	N 89°43'46" W		
RADIAL DIRECTION:	N 0°16'14" E		
CHORD DIRECTION:	S 89°59'43" W		
RADIAL DIRECTION:	N 0°16'48" W		
TANGENT DIRECTION:	S 89°43'12" W		

CURVE 502

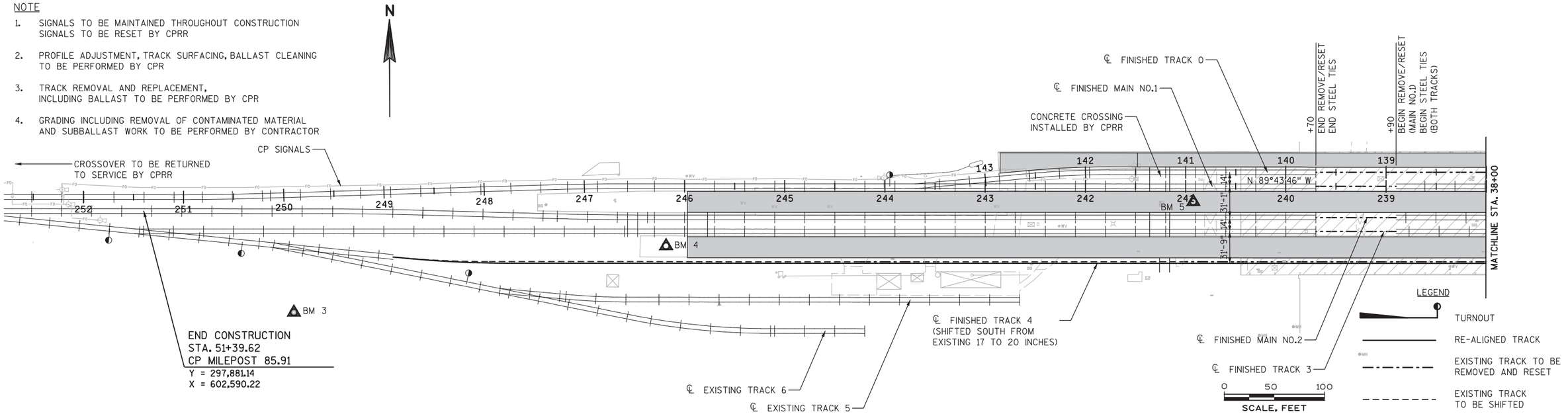
ELEMENT:	CIRCULAR		
PC	35+54.94	297822.06	604174.57
PI	535+82.47	297821.92	604147.04
CC		303551.64	604146.57
PT	536+10.00	297822.05	604119.51
RADIUS:	5729.65		
DELTA:	0°33'02" Right		
DEGREE OF CURVATURE(CHORD):	1°00'00"		
LENGTH:	55.06		
TANGENT:	27.53		
CHORD:	55.06		
MIDDLE ORDINATE:	0.07		
EXTERNAL:	0.07		
TANGENT DIRECTION:	S 89°43'12" W		
RADIAL DIRECTION:	N 0°16'48" W		
CHORD DIRECTION:	S 89°59'43" W		
RADIAL DIRECTION:	N 0°16'14" E		
TANGENT DIRECTION:	N 89°43'46" W		

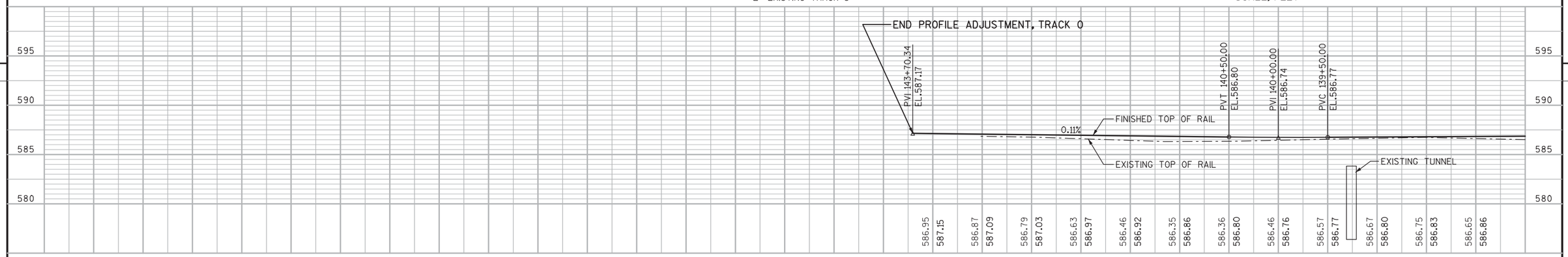
CURVE 503

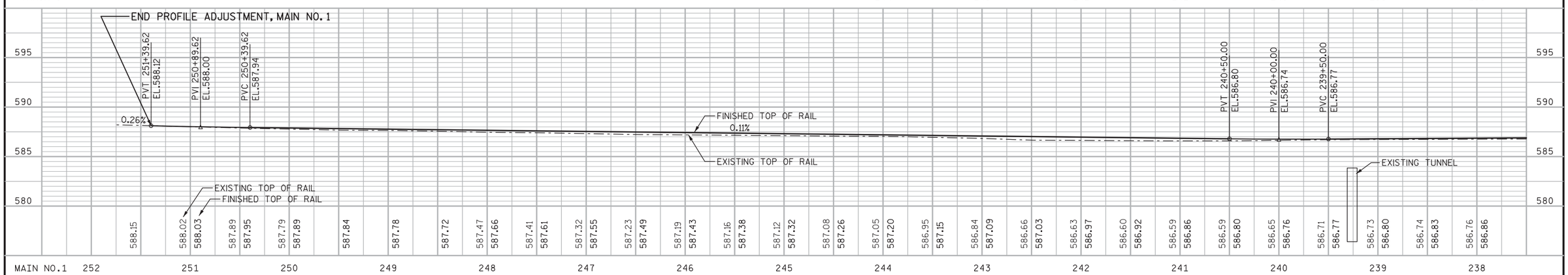
ELEMENT:	CIRCULAR		
PC	547+73.91	297827.55	602955.61
PI	548+29.06	297827.81	602900.46
CC		298942.03	602960.88
PT	548+84.13	297833.52	602845.60
RADIUS:	1114.49		
DELTA:	5°39'59" Right		
DEGREE OF CURVATURE(CHORD):	5°08'34"		
LENGTH:	110.22		
TANGENT:	55.15		
CHORD:	110.17		
MIDDLE ORDINATE:	1.36		
EXTERNAL:	1.36		
TANGENT DIRECTION:	N 89°43'46" W		
RADIAL DIRECTION:	N 0°16'14" E		
CHORD DIRECTION:	N 86°53'46" W		
RADIAL DIRECTION:	N 5°56'13" E		
TANGENT DIRECTION:	N 84°03'47" W		

NOTE

1. SIGNALS TO BE MAINTAINED THROUGHOUT CONSTRUCTION
   SIGNALS TO BE RESET BY CPRR
2. PROFILE ADJUSTMENT, TRACK SURFACING, BALLAST CLEANING
   TO BE PERFORMED BY CPR
3. TRACK REMOVAL AND REPLACEMENT,
   INCLUDING BALLAST TO BE PERFORMED BY CPR
4. GRADING INCLUDING REMOVAL OF CONTAMINATED MATERIAL
   AND SUBBALLAST WORK TO BE PERFORMED BY CONTRACTOR







PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE : CP RAILROAD, C&M SUBDIVISION, TRACK 0&MAIN NO.1	SHEET 83	E

FILE NAME : X:\20000S\20038\Engineering_Documents\Sheets\20038_PP01(Track 0&1).dgn
PLOT DATE : 2/14/2014 PLOT BY : bweigand PLOT NAME : PLOT SCALE : 1:100

NOTE

1. SIGNALS TO BE MAINTAINED THROUGHOUT CONSTRUCTION
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   INCLUDING BALLAST TO BE PERFORMED BY CPR
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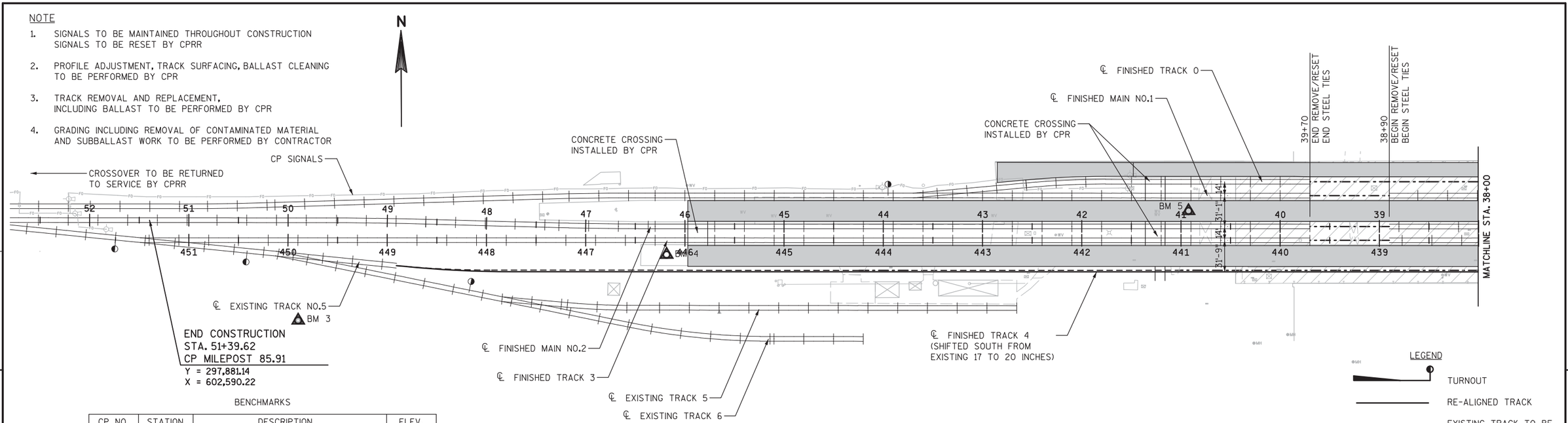
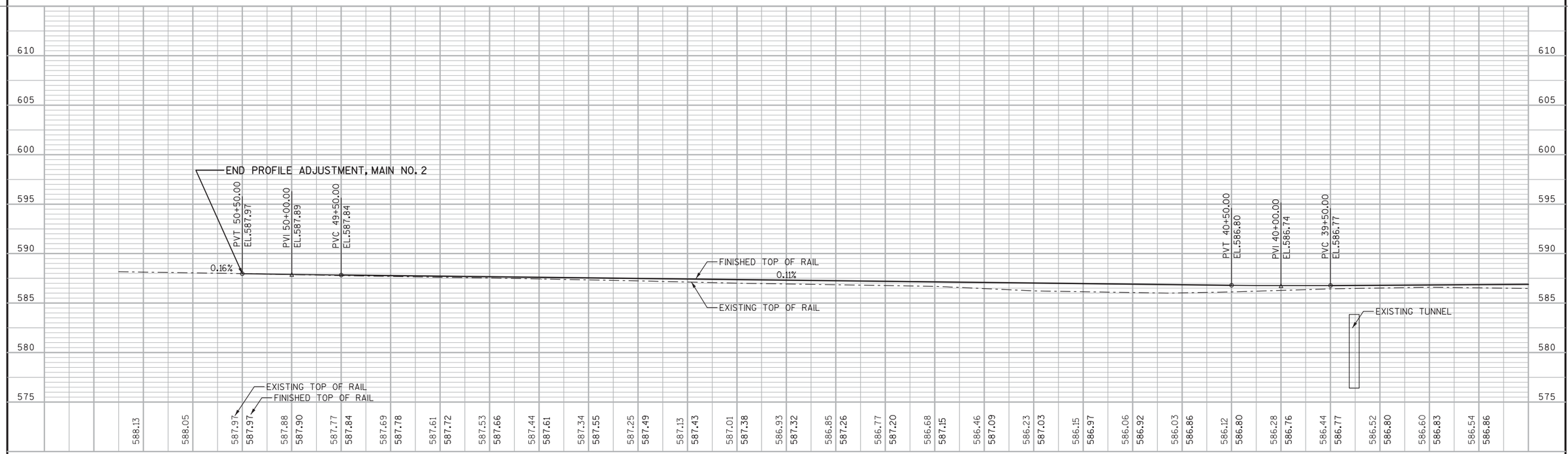
   AND SUBBALLAST WORK TO BE PERFORMED BY CONTRACTOR



BENCHMARKS

CP NO.	STATION	DESCRIPTION	ELEV.
BM 3	49+89 LT	PK NAIL	587.15
BM 4	46+18 LT	CROSSCUT IN CONCRETE PLATFORM	587.59
BM 5	40+92 RT	CROSSCUT IN CONCRETE PLATFORM	586.86



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE : CP RAILROAD, C&M SUBDIVISION, MAIN NO.2	SHEET 84	E

END CONSTRUCTION
STA. 51+39.62
CP MILEPOST 85.91
Y = 297,881.14
X = 602,590.22

N

CP SIGNALS

CONCRETE CROSSING INSTALLED BY CPR

DOWNSPOUTS AND ROOF TO BE RECONSTRUCTED BY CONTRACTOR UTILITIES AND LIGHTING REMOVED/RELOCATED BY CPR

℄ FINISHED MAIN NO.1

℄ FINISHED TRACK 3

℄ FINISHED MAIN NO.2

℄ FINISHED TRACK 0

439+70 END REMOVE/RESET END STEEL TIES

438+90 BEGIN REMOVE/RESET BEGIN STEEL TIES

MATCHLINE STA. 38+00

BM 5

BM 4

BM 3

CURVE 503 PC PT

548+84.13 END SHIFT

℄ EXISTING TRACK 5

℄ EXISTING TRACK 6

544+25 END REMOVE/RESET BEGIN SHIFT

543+75 END SHIFT BEGIN REMOVE/RESET

℄ FINISHED TRACK 4 (SHIFTED SOUTH FROM EXISTING 17 TO 20 INCHES)

CONCRETE CROSSING INSTALLED BY CPR

541+00 END REMOVE/RESET BEGIN SHIFT

31'-9" 31'-11" 14"

N 89°43'46" W

NOTE

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3. TRACK REMOVAL AND REPLACEMENT, INCLUDING BALLAST TO BE PERFORMED BY CPR
4. GRADING INCLUDING REMOVAL OF CONTAMINATED MATERIAL AND SUBBALLAST WORK TO BE PERFORMED BY CONTRACTOR

LEGEND

- TURNOUT
- RE-ALIGNED TRACK
- EXISTING TRACK TO BE REMOVED AND RESET
- EXISTING TRACK TO BE SHIFTED

0 50 100
SCALE, FEET

END PROFILE ADJUSTMENT, TRACK 3

PVT 447+46.02 EL.587.58
PVI 446+96.02 EL.587.54
PVC 446+46.02 EL.587.49
PVT 440+50.00 EL.586.80
PVI 440+00.00 EL.586.74
PVC 439+50.00 EL.586.77

0.08%
0.11%

FINISHED TOP OF RAIL
EXISTING TOP OF RAIL
EXISTING TUNNEL

595 590 585 580

587.93 587.86 587.77 587.69 587.65 587.62 587.62 587.59 587.54 587.54 587.48 587.49 587.39 587.43 587.30 587.38 587.20 587.32 587.11 587.26 586.98 587.20 586.84 587.15 586.70 587.09 586.56 587.03 586.46 586.97 586.36 586.92 586.28 586.86 586.28 586.80 586.39 586.76 586.50 586.77 586.59 586.80 586.67 586.83 586.49 586.86

TRACK 3 452 451 450 449 448 447 446 445 444 443 442 441 440 439 438

END PROFILE ADJUSTMENT, TRACK 4

PVI 548+95.00 EL.587.53
PVT 547+16.78 EL.587.51
PVI 546+66.78 EL.587.51
PVC 546+16.78 EL.587.45
PVT 540+50.00 EL.586.80
PVI 540+00.00 EL.586.74
PVC 539+50.00 EL.586.77

0.01%
0.11%

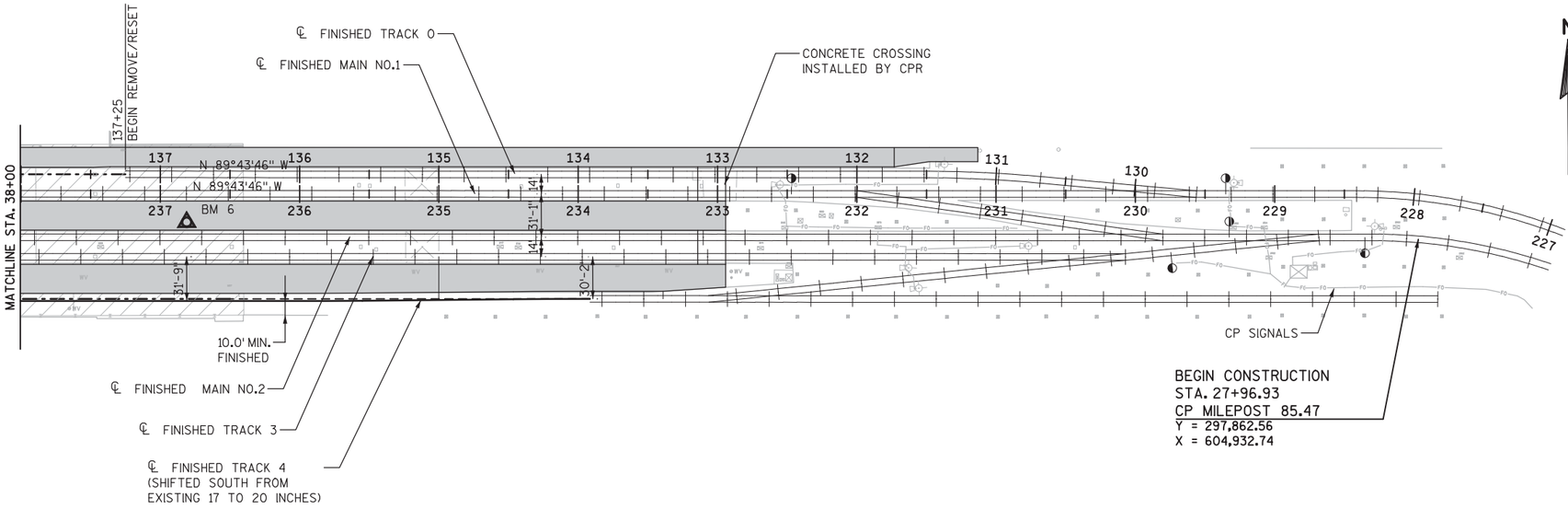
FINISHED TOP OF RAIL
EXISTING TOP OF RAIL
EXISTING TOP OF RAIL
FINISHED TOP OF RAIL

595 590 585 580

587.99 587.91 587.84 587.75 587.66 587.54 587.52 587.52 587.45 587.52 587.41 587.52 587.36 587.51 587.31 587.48 587.24 587.43 587.16 587.38 587.05 587.32 586.94 587.26 586.82 587.20 586.70 587.15 586.56 587.09 586.42 587.03 586.41 586.97 586.41 586.92 586.40 586.86 586.41 586.80 586.41 586.76 586.41 586.77 586.41 586.80 586.41 586.83 586.40 586.86

TRACK 4 552 551 550 549 548 547 546 545 544 543 542 541 540 539 538

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE: CP RAILROAD, C&M SUBDIVISION, TRACK 3 & 4	SHEET 85	E



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NOTE

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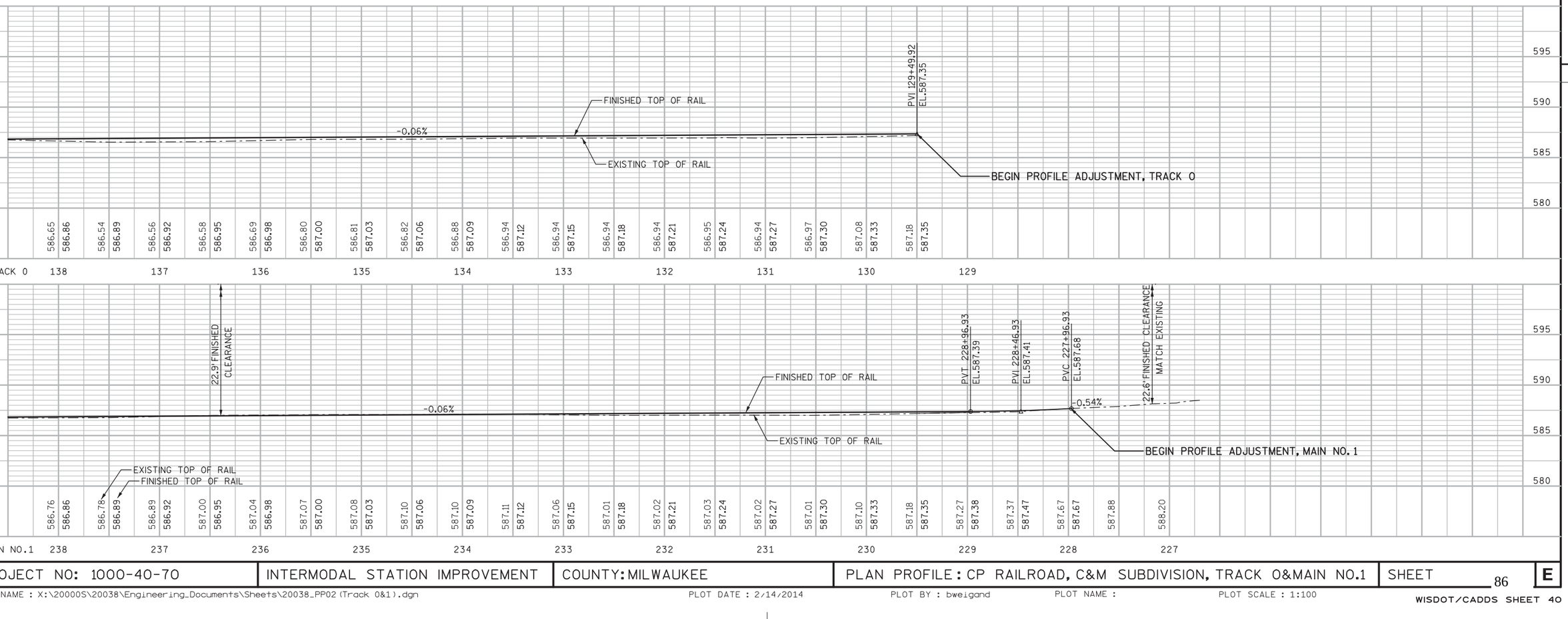
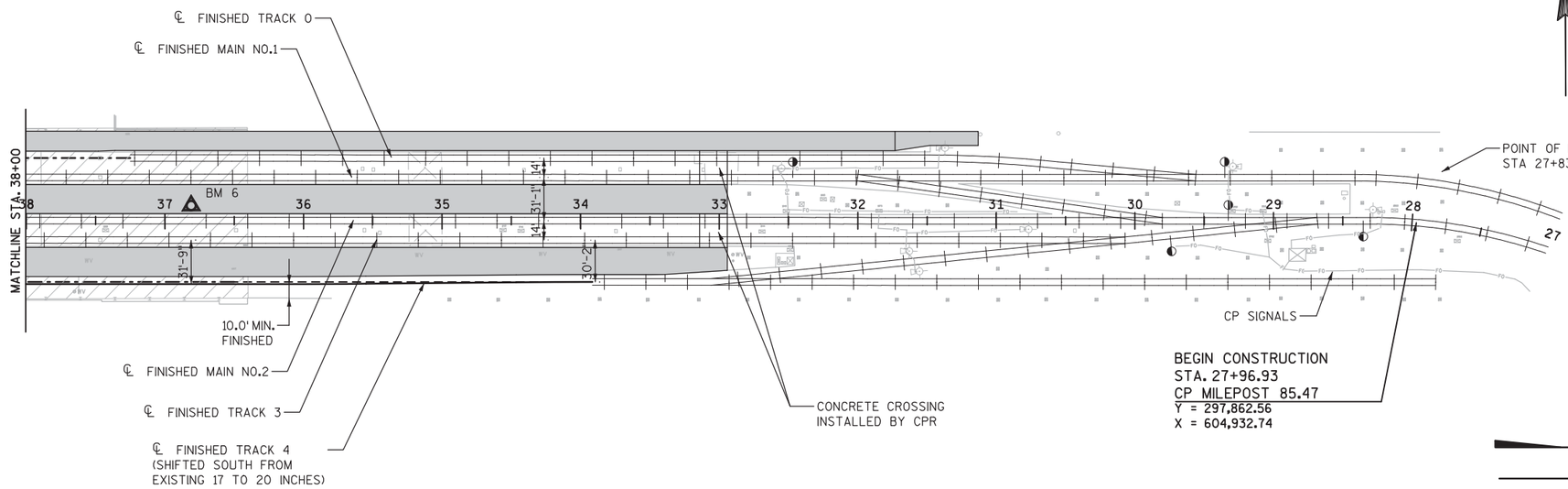
LEGEND

- TURNOUT
- RE-ALIGNED TRACK
- EXISTING TRACK TO BE REMOVED AND RESET
- EXISTING TRACK TO BE SHIFTED

0 50 100
SCALE, FEET



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE: CP RAILROAD, C&M SUBDIVISION, TRACK 0&MAIN NO.1	SHEET 86	E



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NOTE

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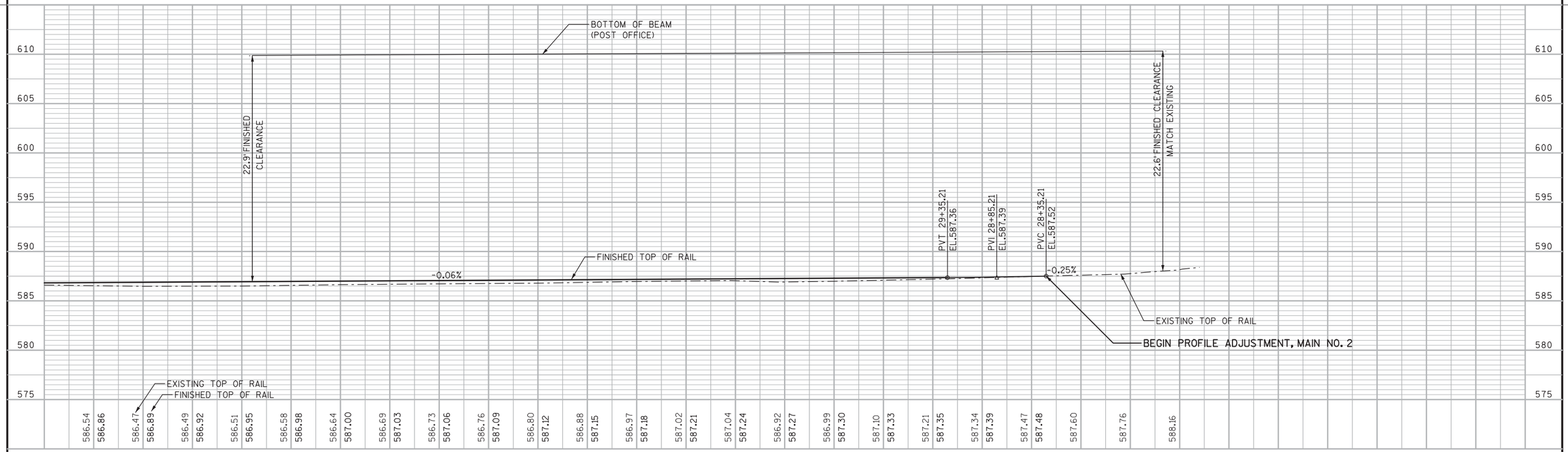
LEGEND

- TURNOUT
- RE-ALIGNED TRACK
- EXISTING TRACK TO BE REMOVED AND RESET
- EXISTING TRACK TO BE SHIFTED

0 50 100
SCALE, FEET

BENCHMARKS

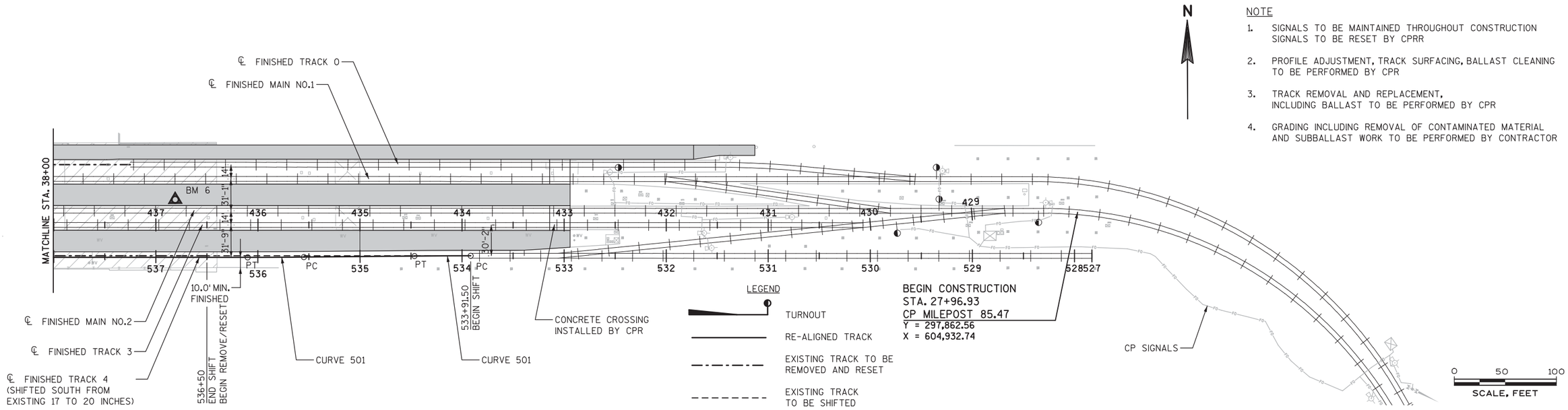
CP NO.	STATION	DESCRIPTION	ELEV.
BM 6	36+81 RT	PK NAIL	586.55
BM 7	23+36 RT	PK NAIL	591.08

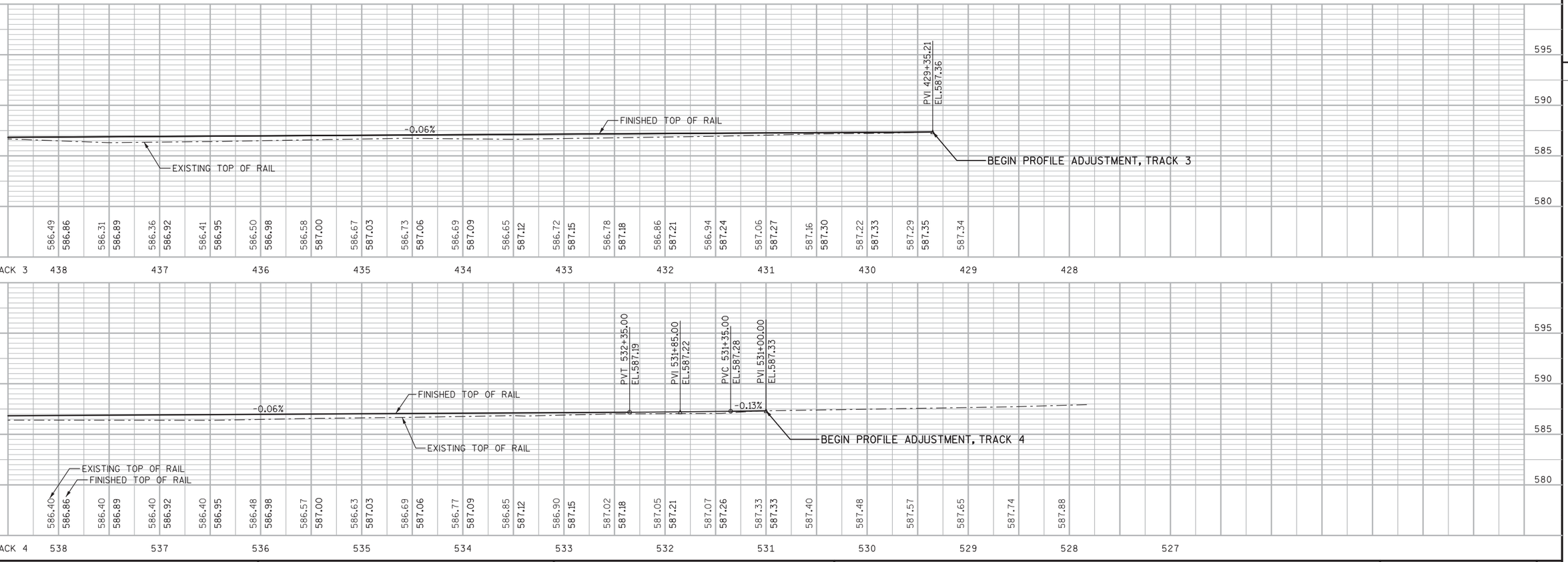


PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE: CP RAILWAY, C&M SUBDIVISION, MAIN NO. 2	SHEET 87	E

NOTE

1. SIGNALS TO BE MAINTAINED THROUGHOUT CONSTRUCTION SIGNALS TO BE RESET BY CPRR
2. PROFILE ADJUSTMENT, TRACK SURFACING, BALLAST CLEANING TO BE PERFORMED BY CPR
3. TRACK REMOVAL AND REPLACEMENT, INCLUDING BALLAST TO BE PERFORMED BY CPR
4. GRADING INCLUDING REMOVAL OF CONTAMINATED MATERIAL AND SUBBALLAST WORK TO BE PERFORMED BY CONTRACTOR





PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	PLAN PROFILE : CP RAILWAY, C&M SUBDIVISION, TRACK 3 & 4	SHEET 88	E

N

0 20 40

SCALE. FEET

LEGEND

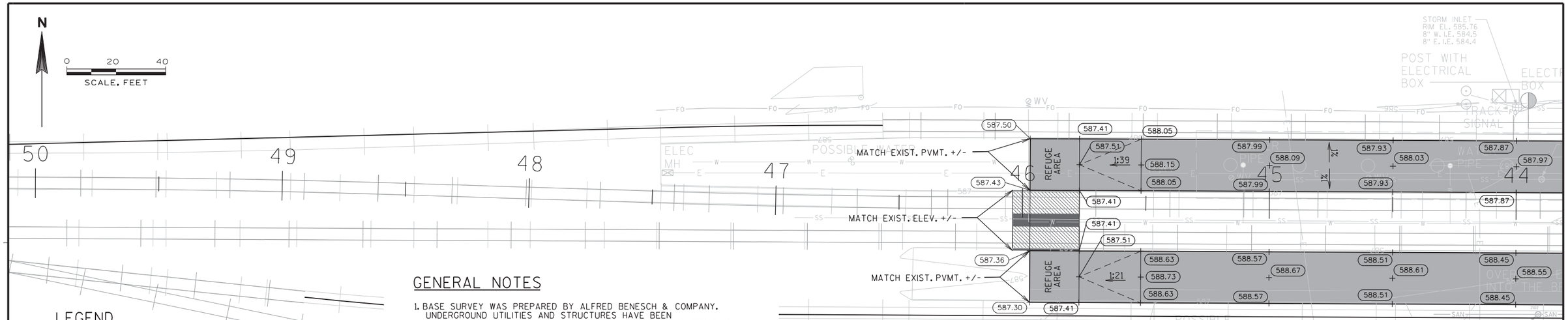
- (XXX.XX) PROP. SPOT GRADE
- (XXX.XX / XXX.XX) PROP. TOP OF CURB GRADE / PROP. FLANGE LINE GRADE
- XXX.XX / XXX.XX PROP. TOP OF WALL ELEVATION / PROP. GRADE AT BOTTOM OF WALL
- PROP. CONCRETE PAVEMENT
- PROP. CONCRETE CROSSING BY CPR
- PROP. HMA PAVEMENT TYPE E-1

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.
3. HMA PAVEMENT WHERE INDICATED ON THE PLANS SHALL CONSIST OF:

   2.25" OF 19.0mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE LOWER LAYER

   1.75" OF 12.5mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE UPPER LAYER



GRADING NOTES

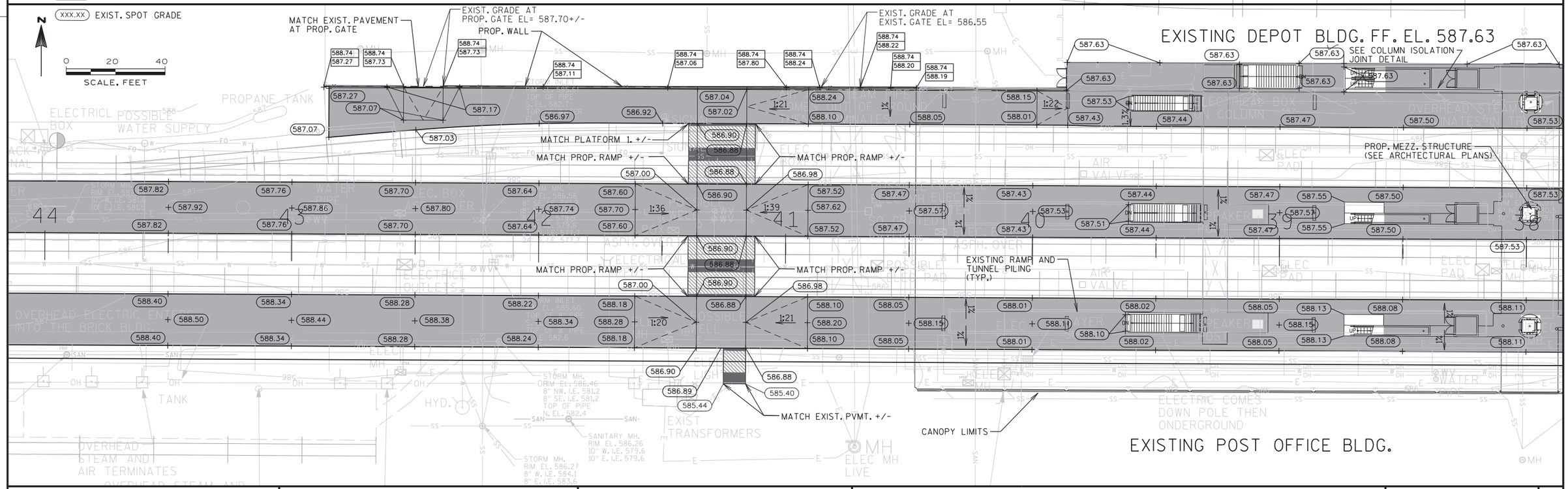
1. ADA REQUIREMENTS REQUIRE A MAXIMUM GRADING SLOPE OF 1:20 (5%) ALONG LENGTH OF PLATFORM AND A MAXIMUM GRADING SLOPE OF 1:50 (2%) ACROSS WIDTH OF PLATFORM.
2. ALL HANDICAP ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM 12:1 SLOPE, MINIMUM LENGTH OF 8 FEET, AND BE FURNISHED WITH A WISDOT APPROVED DETECTABLE WARNING FIELD.
3. ISOLATION JOINTS WITH COMPRESSIBLE JOINT FILLER ARE REQUIRED AT LOCATIONS CONCRETE PAVEMENT ABUTS BUILDING, PERMANANT STRUCTURES, CROSSING PANELS, AND STAIRWELLS. SEE DETAIL SHEET FOR JOINTING SECTIONS.
4. PLATFORMS 1 AND 2 FINSHED ELEVATION SHALL BE 8" ABOVE PROPOSED TOP OF RAIL. PLATFORM 3 FINSHED ELEVATION SHALL BE 15" ABOVE PROPOSED TOP OF RAIL. NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE JOINTING LAYOUT, LIGHT FIXTURES, AND SIGNAGE.

(XXX.XX) EXIST. SPOT GRADE

N

0 20 40

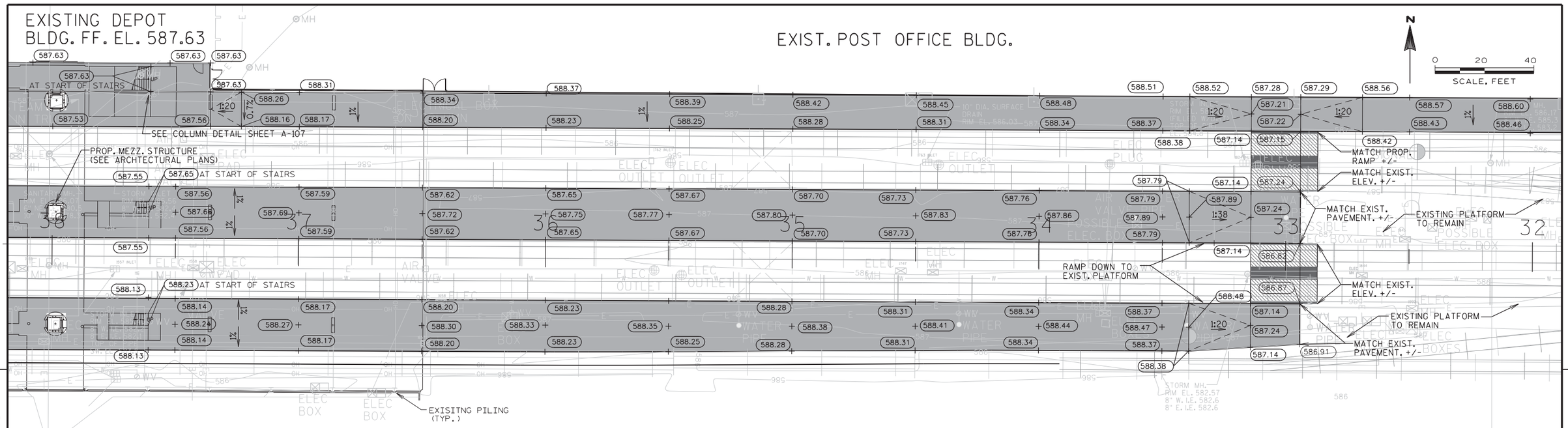
SCALE. FEET



PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE GRADING PLAN	SHEET 89	E

EXISTING DEPOT
BLDG. FF. EL. 587.63

EXIST. POST OFFICE BLDG.



EXIST. POST OFFICE BLDG.

GRADING NOTES

1. ADA REQUIREMENTS REQUIRE A MAXIMUM GRADING SLOPE OF 1:20 (5%) ALONG LENGTH OF SIDEWALK AND A MAXIMUM GRADING SLOPE OF 1:50 (2%) ACROSS WIDTH OF SIDEWALK.
2. ALL HANDICAP RAMPS SHALL HAVE A MAXIMUM 12:1 SLOPE, MINIMUM LENGTH OF 8 FEET, AND BE FURNISHED WITH A WISDOT APPROVED DETECTABLE WARNING FIELD.
3.) ISOLATION JOINTS WITH COMPRESSIBLE JOINT FILLER ARE ARE REQUIRED AT ALL LOCATIONS CONCRETE PAVEMENT ABUTS BUILDING, PERMANANT STRUCTURES, CROSSING PANELS, AND STAIRWELLS. SEE DETAIL SHEET FOR JOINTING SECTIONS.
4.) PLATFORMS 1 AND 2 FINSHED ELEVATION SHALL BE 8" ABOVE PROPOSED TOP OF RAIL. PLATFORM 3 FINSHED ELEVATION SHALL BE 15" ABOVE PROPOSED TOP OF RAIL. NOTIFY ENGINEER OF ANY DISCREPANCIES.
5.) REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE JOINTING LAYOUT, LIGHT FIXTURES, AND SIGNAGE.

LEGEND

- XXX.XX — PROP. SPOT GRADE
- XXX.XX / XXX.XX — PROP. TOP OF CURB GRADE / PROP. FLANGE LINE GRADE
- PROP. CONCRETE PAVEMENT
- PROP. CONCRETE CROSSING BY CPR
- PROP. HMA PAVEMENT TYPE E-1
- XXX.XX — EXIST. SPOT GRADE

N

0 20 40
SCALE. FEET

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
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   2.25" OF 19.0mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE LOWER LAYER

   1.75" OF 12.5mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE UPPER LAYER

PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE GRADING PLAN	SHEET 90	E

FILE NAME : L:\Jobs2010\20100072-02\CAD\Site\dgn\00\C_00_GRADE01A_072.dgn PLOT DATE : 2/25/2014 PLOT BY : FJK PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 44

GENERAL NOTES

1. BASE SURVEY WAS PREPARED BY ALFRED BENESCH & COMPANY. UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN SHOWN TO A REASONABLE DEGREE OF ACCURACY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION IN WISCONSIN; LATEST EDITION, AND CONTRACT SPECIAL PROVISIONS.

3. HMA PAVEMENT WHERE INDICATED ON THE PLANS SHALL CONSIST OF:

   2.25" OF 19.0mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE LOWER LAYER

   1.75" OF 12.5mm HMA PAVEMENT TYPE E-1
   PERFORMANCE GRADE PG58-28, AS THE UPPER LAYER

N

0 10 20
SCALE, FEET

DEPOT BLDG
FF. EL. 587.63

EXISTING PARKING LOT

PLACE 4 INCHES OF HMA PAVEMENT OVER 9 INCHES OF BASE AGGREGATE DENSE 1¼–INCH

EXISTING CURB & GUTTER

SAWCUT AND MATCH EXISTING PARKING LOT PAVEMENT (TYP)

PROPOSED CONCRETE CURB AND GUTTER TO MATCH EXISTING

15' RADIUS

RE–STRIPE NEW PAVEMENT WITH EPOXY PAVEMENT MARKING YELLOW DIAGONALS TO MATCH EXISTING CONDTIONS

10%

10%

588.18

588.18

10%

2%

15'(+/–)

8'

EXIST. POST OFFICE BLDG.

MATCH PROPOSED PLATFORM GRADES

588.34

588.34

15'(+/–)

14'

BACKFILL BEHIND CURB AND GUTTER WITH OPEN GRADED BASE COURSE AT 3:1 SLOPE TO MATCH EXISTING STONE SURFACE

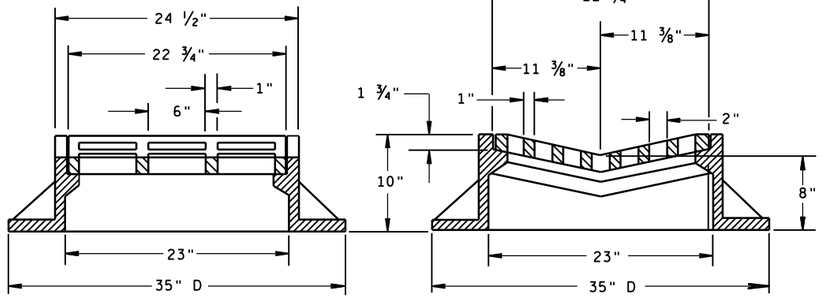
MH
UP
AIR VALVE
ELEC PAD
ELEC MH
ELEC OUTLET
1562
1564 INLET
1762 INLET
1557 INLET
1558
1559
SANITARY MH.
RIM EL. 586.07
6" NE 580.5
10" W 578.3
STORM INLET
RIM EL. 585.56
8" N 582.4
8" E 582.4
STEAM IN TRUSS
ELECTRICAL BOX ON COLUMN
OH
586
587
585
37
36

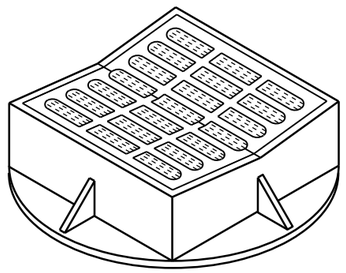
PROJECT NO: 1000-40-70	INTERMODAL STATION IMPROVEMENT	COUNTY: MILWAUKEE	SITE GRADING PLAN - PARKING LOT GATE RAMP	SHEET	E

FILE NAME : $FILE$ PLOT DATE : $DATE$ PLOT BY : PLOT NAME : PLOT SCALE :

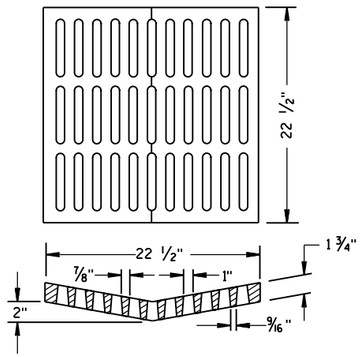
Standard Detail Drawing List

08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08B10-01	MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
12A03-10	NAME PLATE (STRUCTURES)
15B03-13A	FENCE CHAIN LINK
15B03-13B	FENCE CHAIN LINK
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE



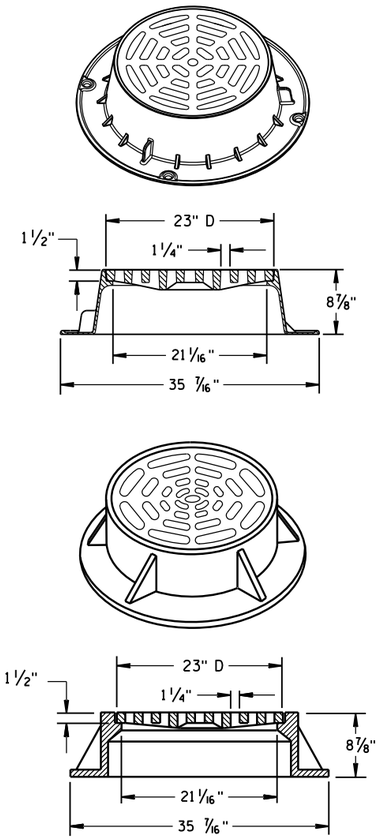


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

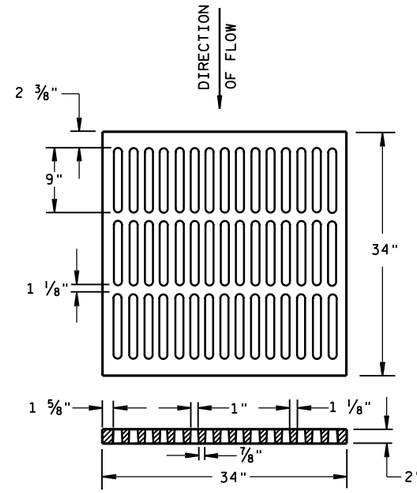
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

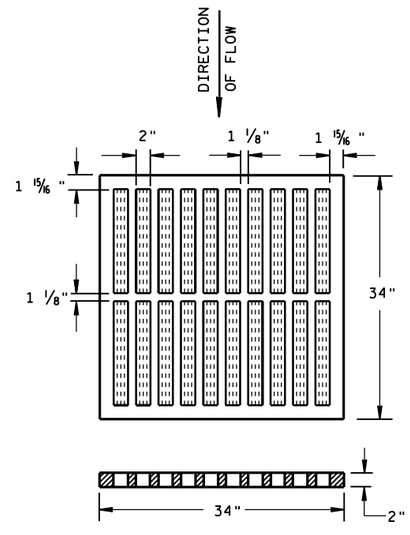
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



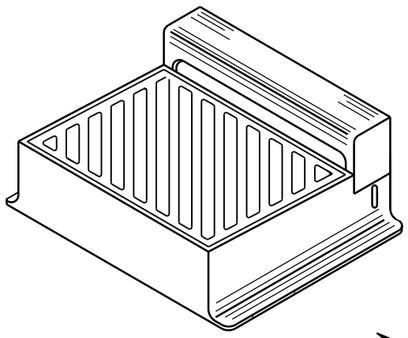
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

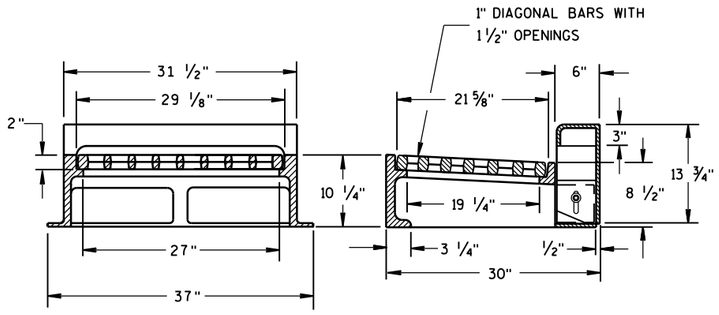


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

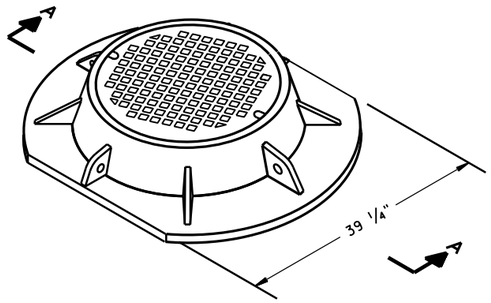
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

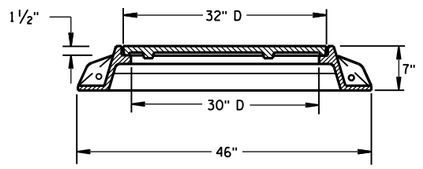
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

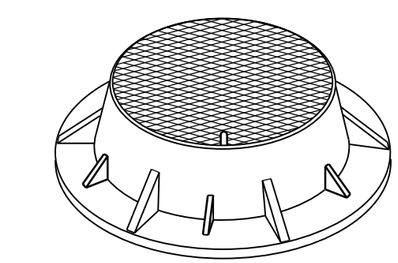
6

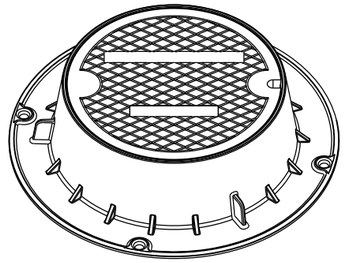
S.D.D. 8 A 5-19b

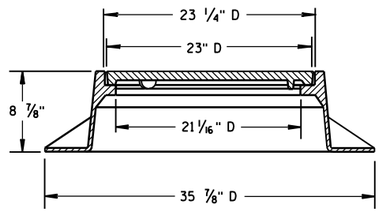


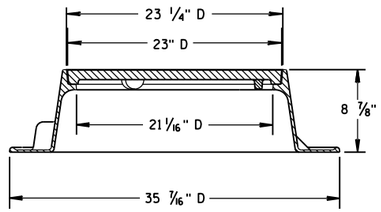


SECTION A-A
TYPE "K"









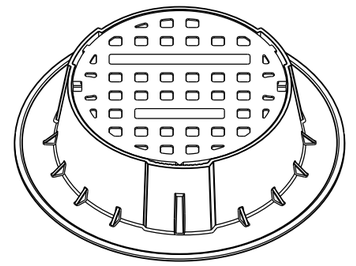
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

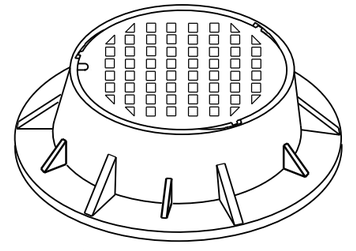
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

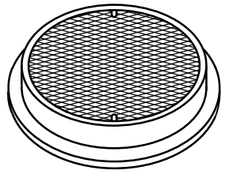
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

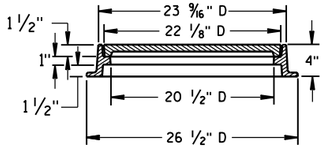
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



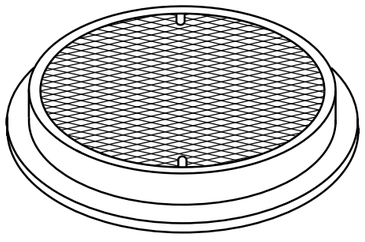


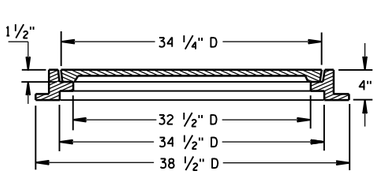
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



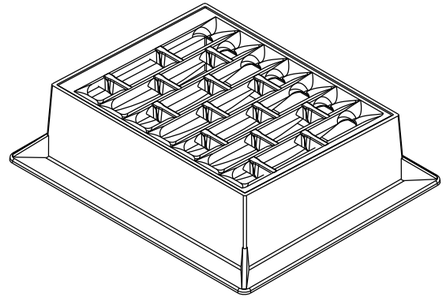


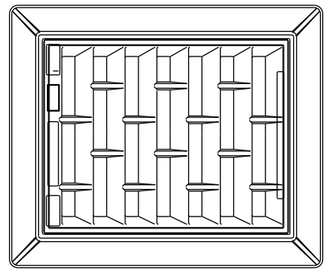
TYPE "L"

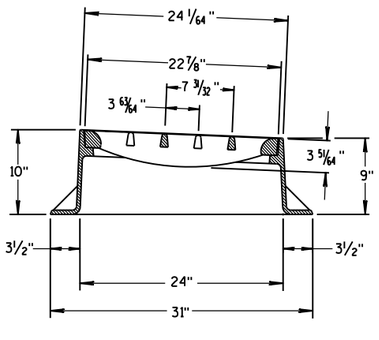


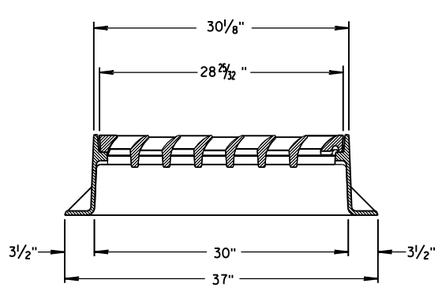


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

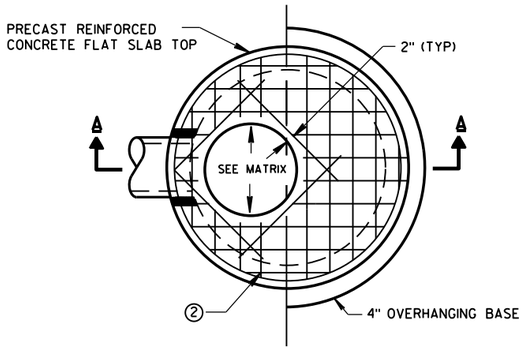
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

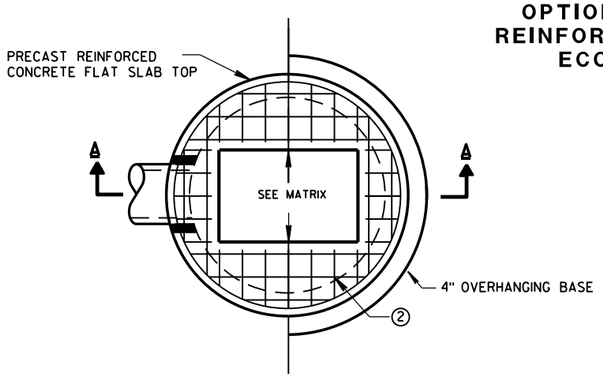
S.D.D. 8 A 5-19d

6

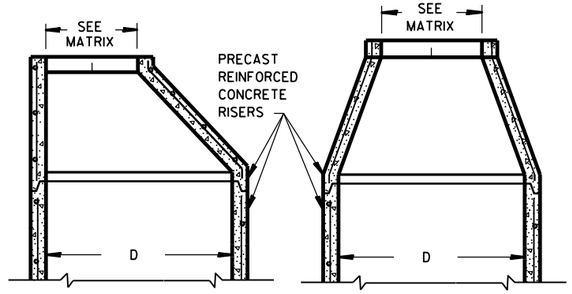
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

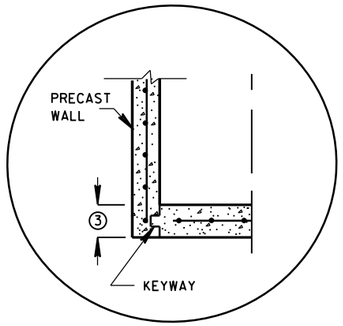


PLAN VIEW RECTANGULAR OPENING

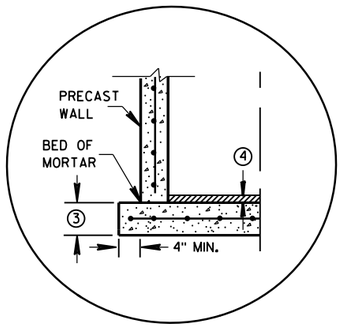


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

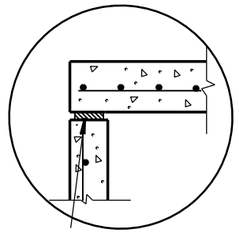


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



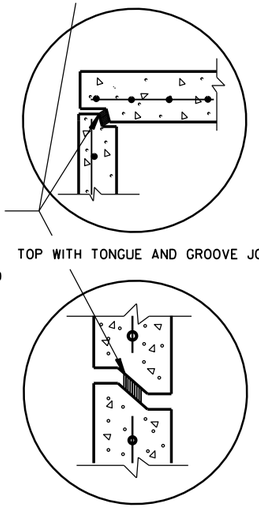
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



TOP WITH PLAIN END JOINT

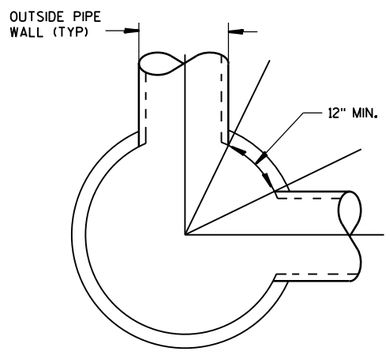
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



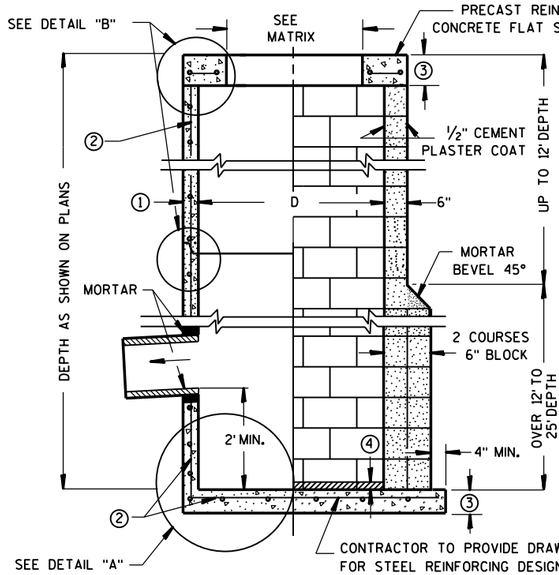
TOP WITH TONGUE AND GROOVE JOINT

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2 INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

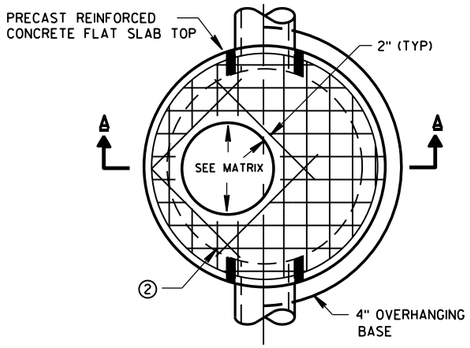
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

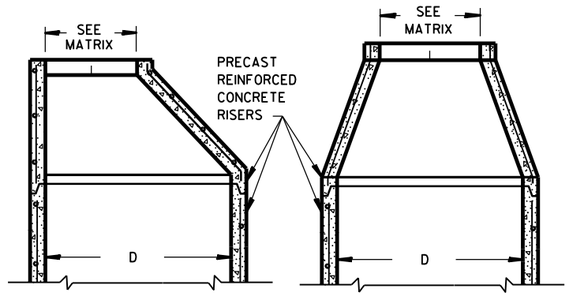
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 8 A 8-1

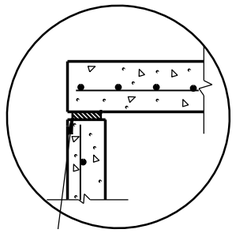


PLAN VIEW CIRCULAR OPENING

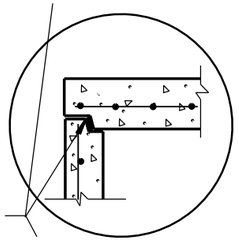


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

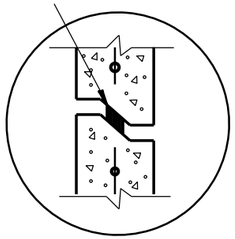


TOP WITH PLAIN END JOINT



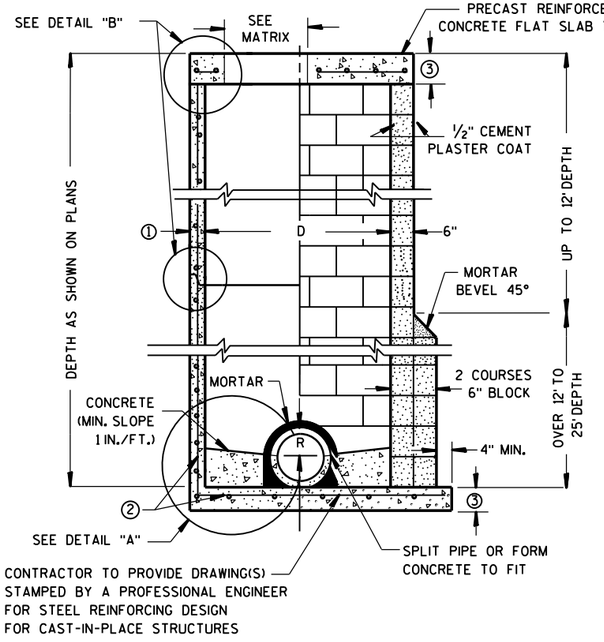
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



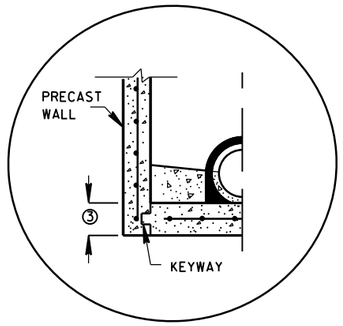
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

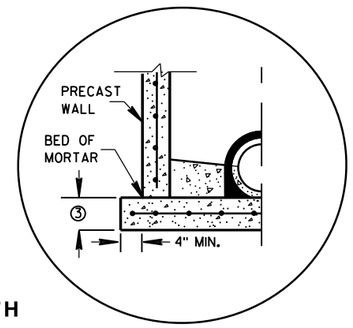


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

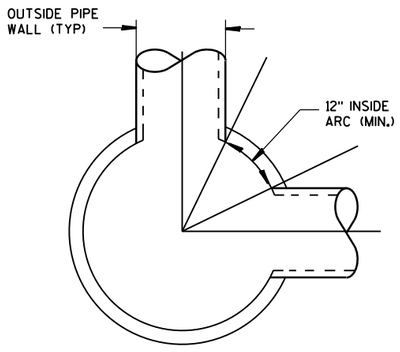


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

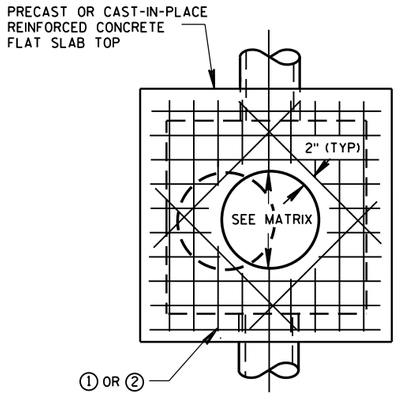
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

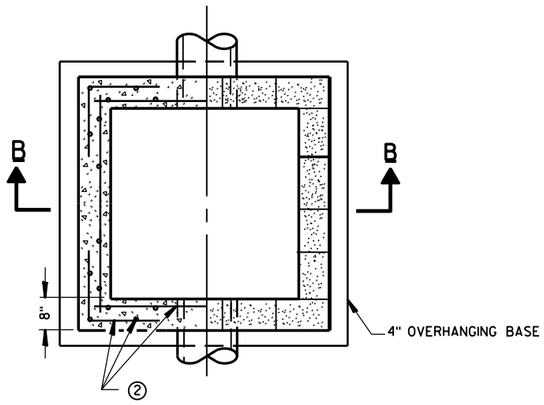
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

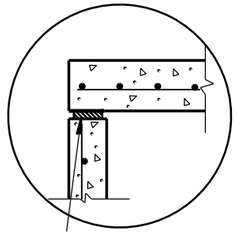
6
S.D.D. 8 B 9-1



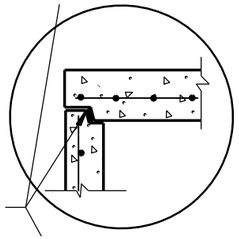
PLAN VIEW
CIRCULAR OPENING



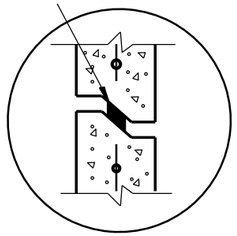
SECTION A-A
PLAN VIEW



TOP WITH PLAIN END JOINT

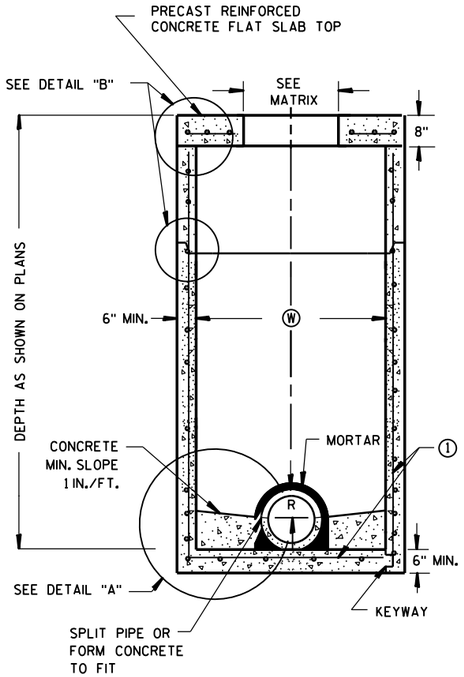


TOP WITH TONGUE AND GROOVE JOINT

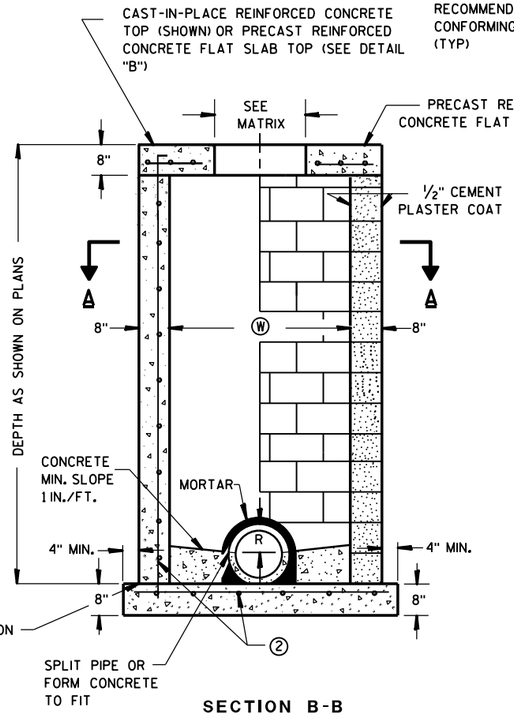


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

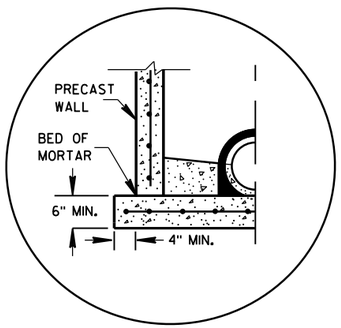


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

CAST-IN-PLACE REINFORCED CONCRETE

SECTION B-B

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

GENERAL NOTES

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STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN WIDTH.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "C". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

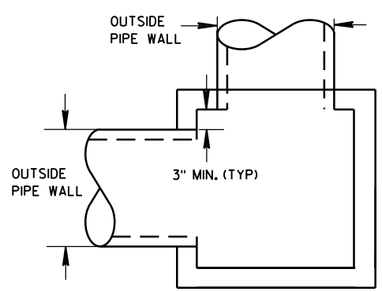
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (W) (IN)	LENGTH (L) (IN)
3X3-FT	24	24
4X4-FT	30	30
5X5-FT	42	42
6X6-FT	54	54



DETAIL "C"

SQUARE MANHOLES W/ FLAT TOP

MANHOLES 3X3-FT, 4X4-FT, 5X5-FT AND 6X6-FT

MANHOLES 3X3-FT, 4X4-FT
5X5-FT AND 6X6-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

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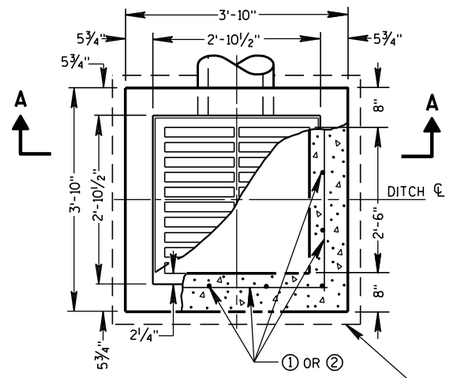
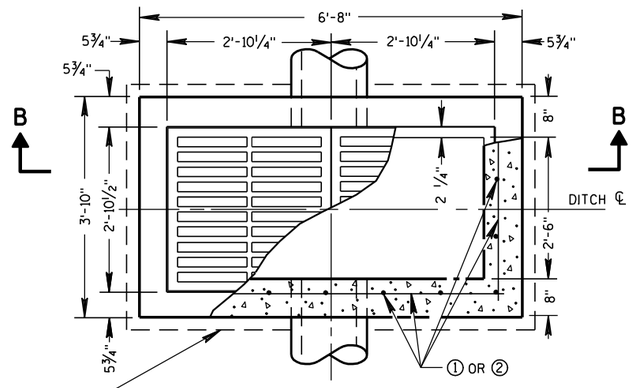
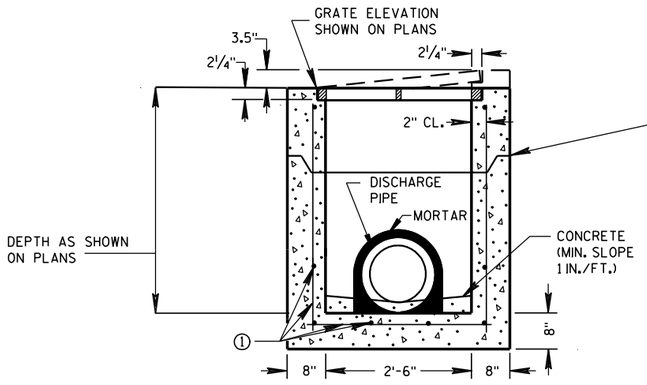


PLAN VIEW

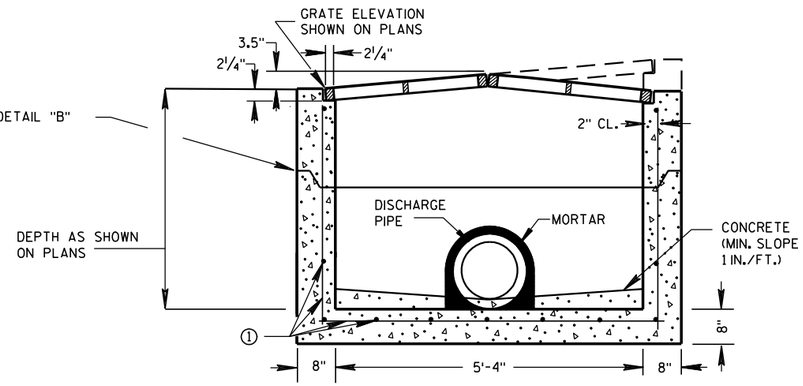


PLAN VIEW

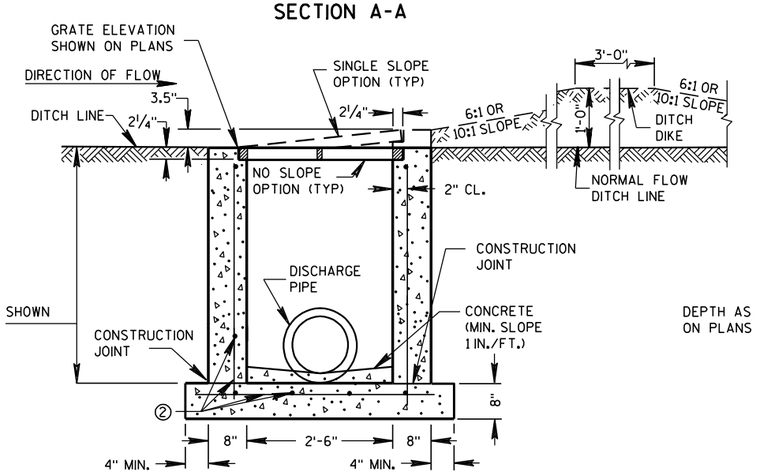
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



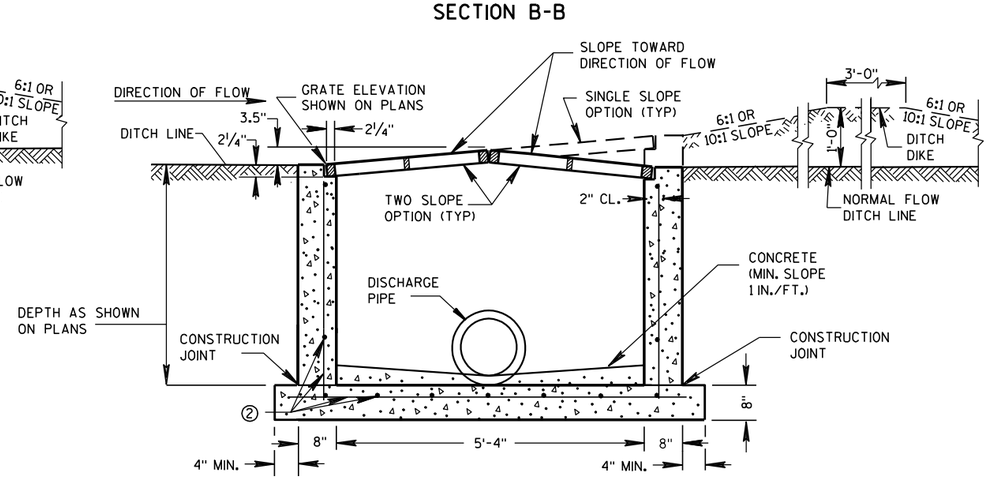
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

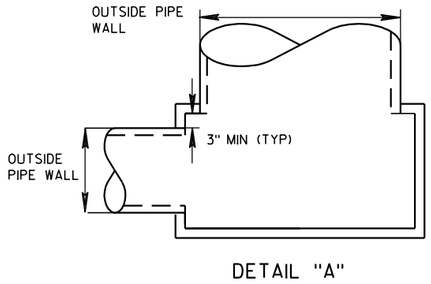
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

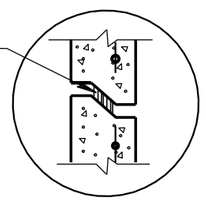
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS [98
ENGINEER

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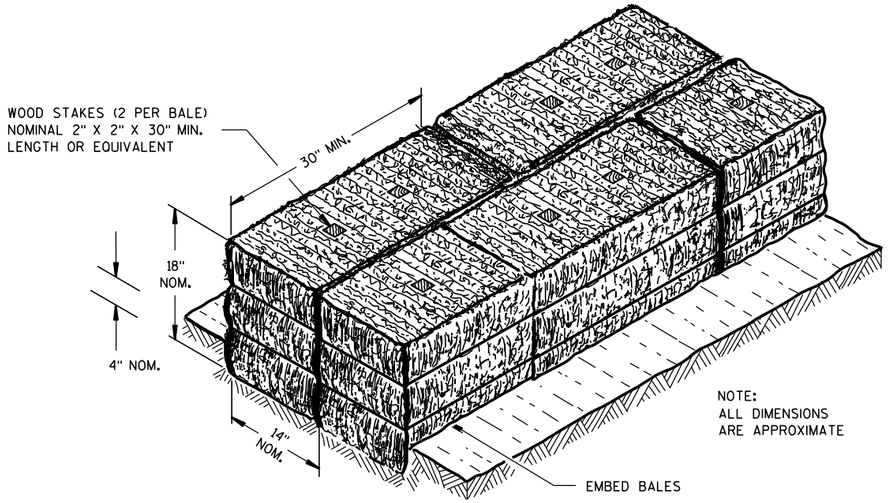
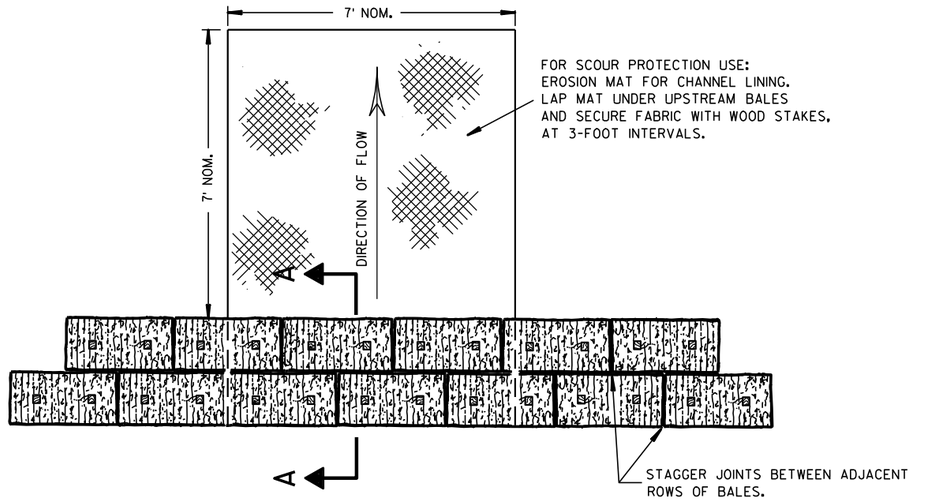
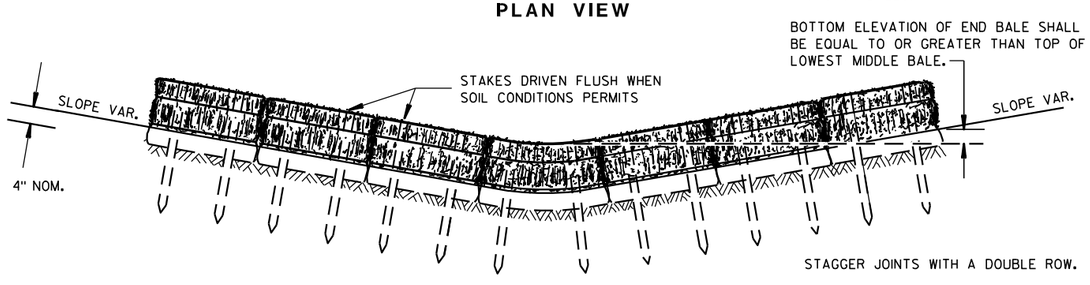


SECTION A-A



PLAN VIEW



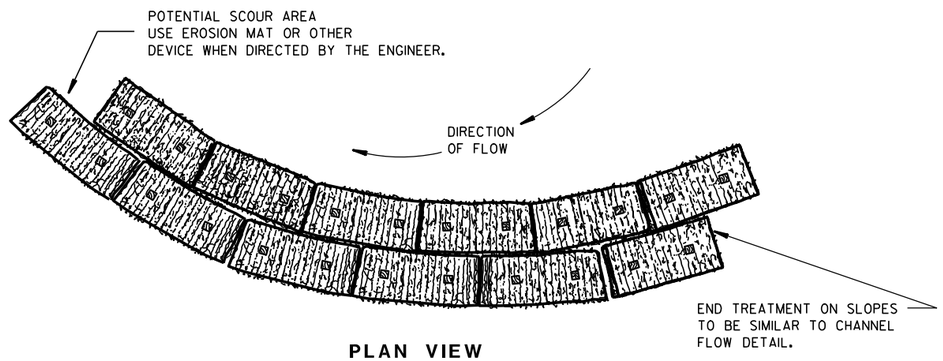
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

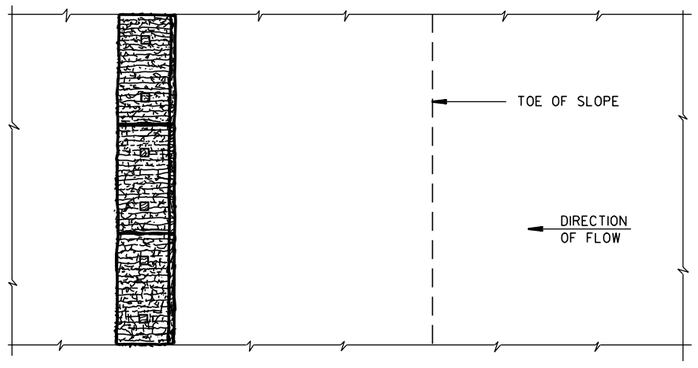
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

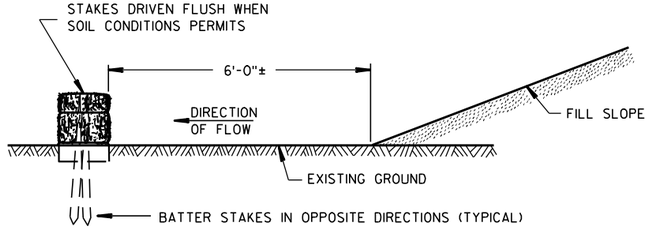


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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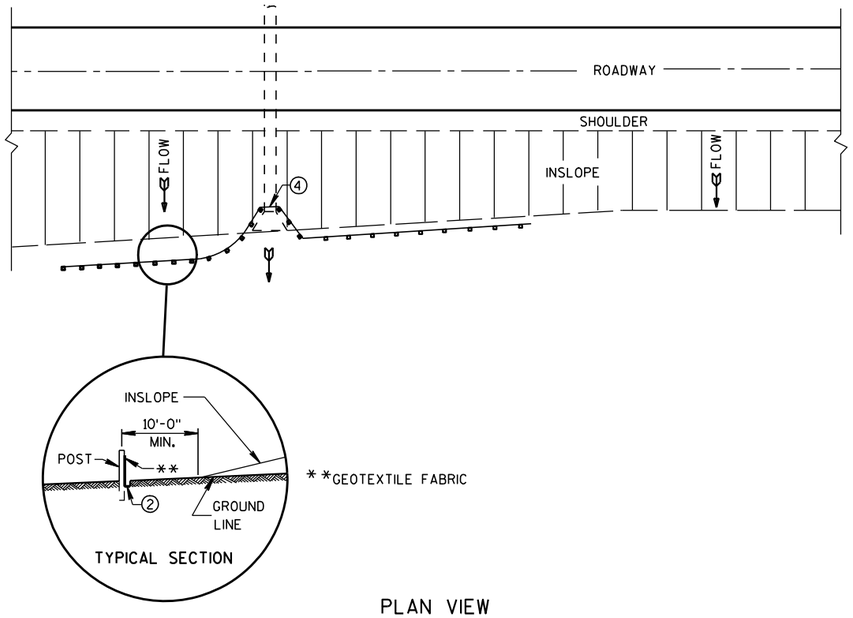
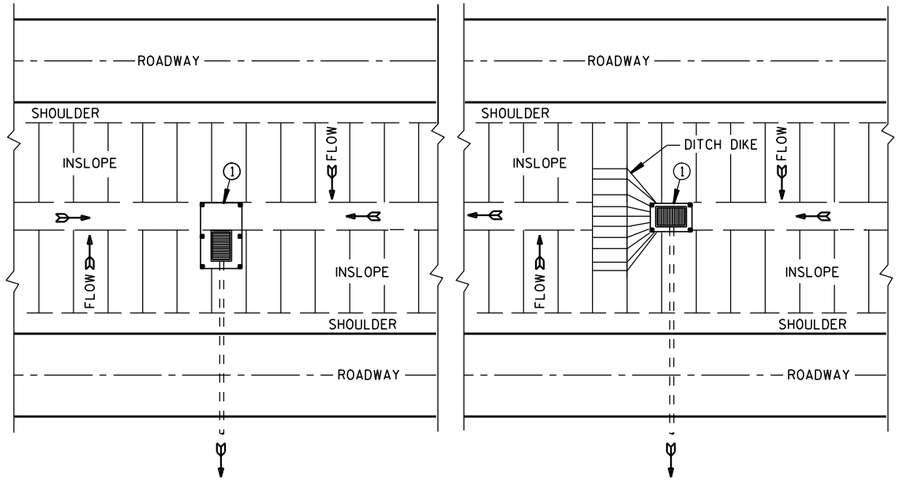


PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



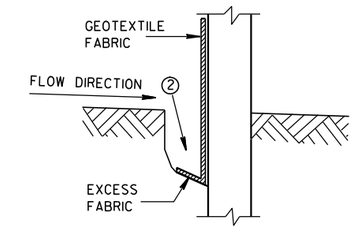
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

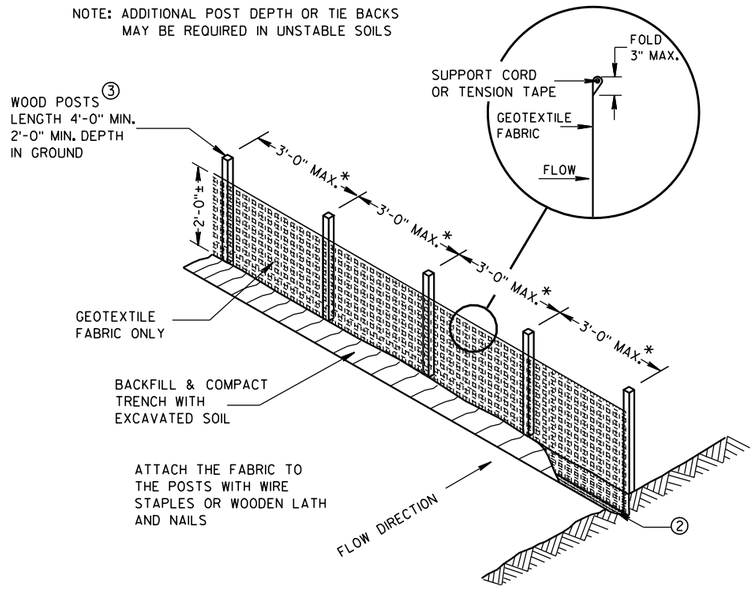
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

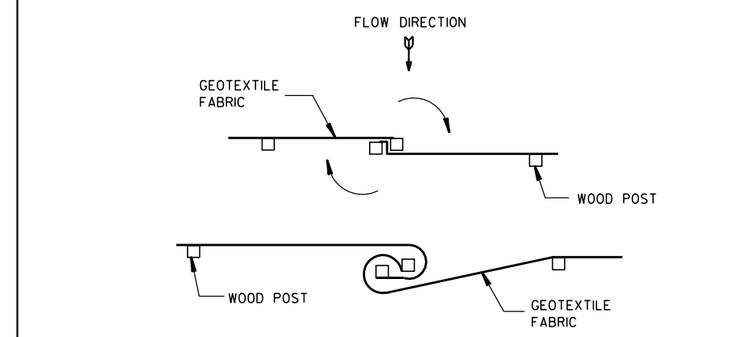
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



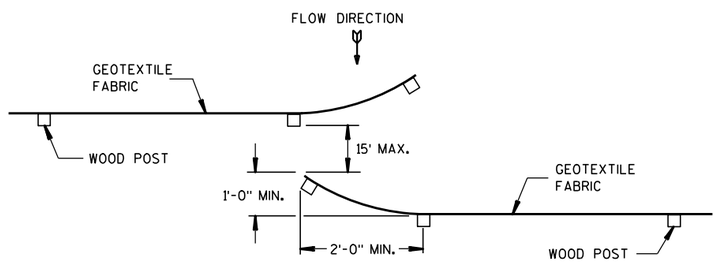
TRENCH DETAIL



SILT FENCE

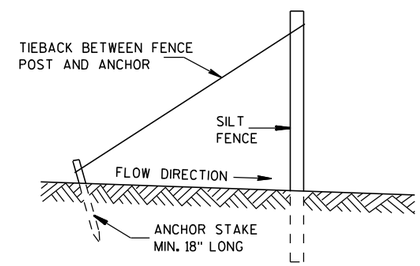


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
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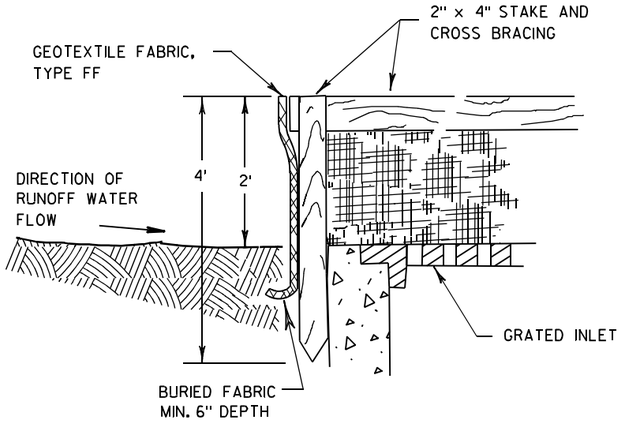
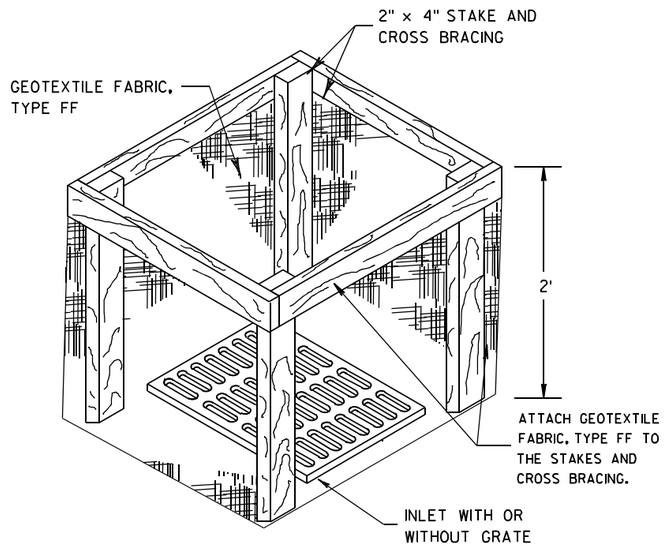
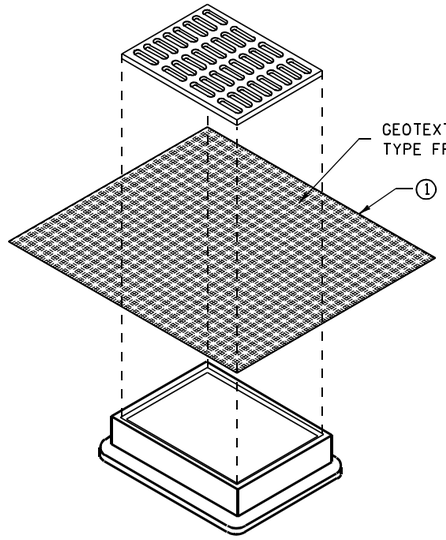


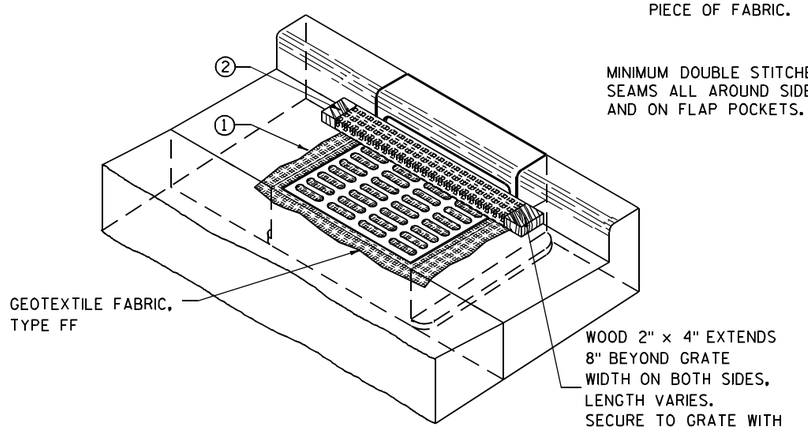


INLET PROTECTION, TYPE A

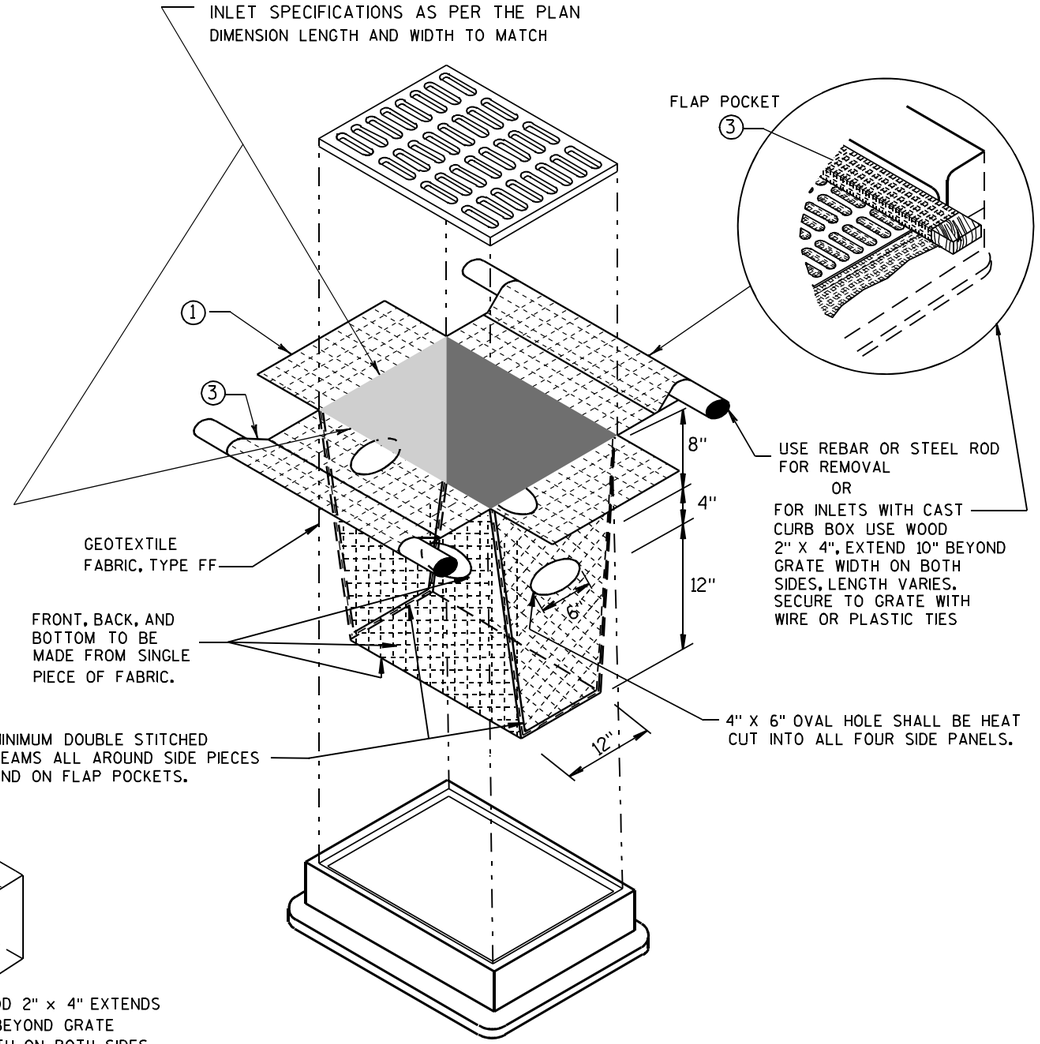


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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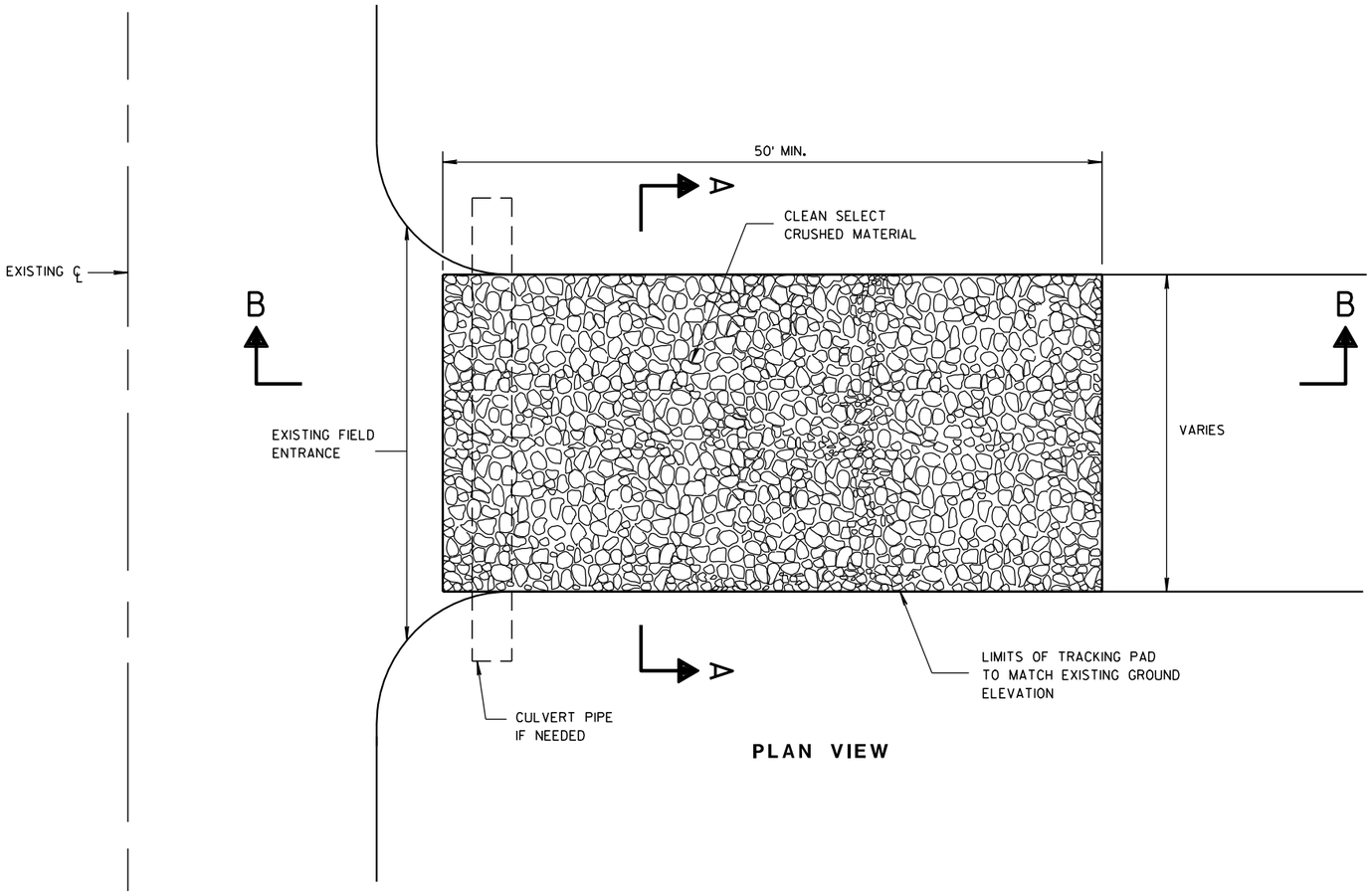
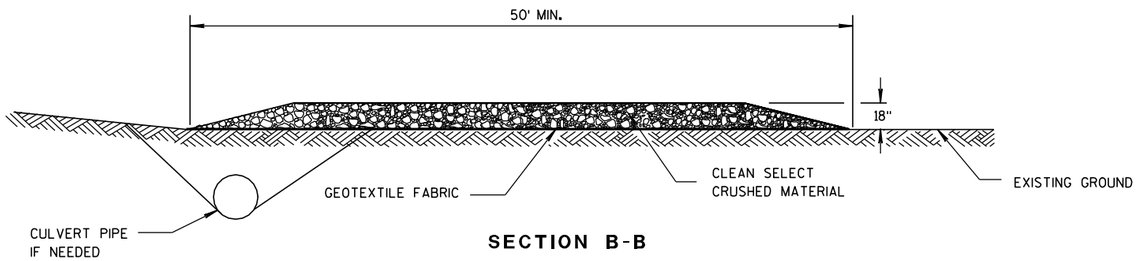


PLAN VIEW



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

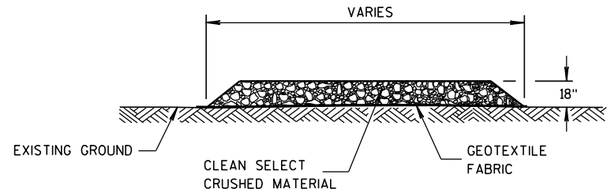
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

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TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

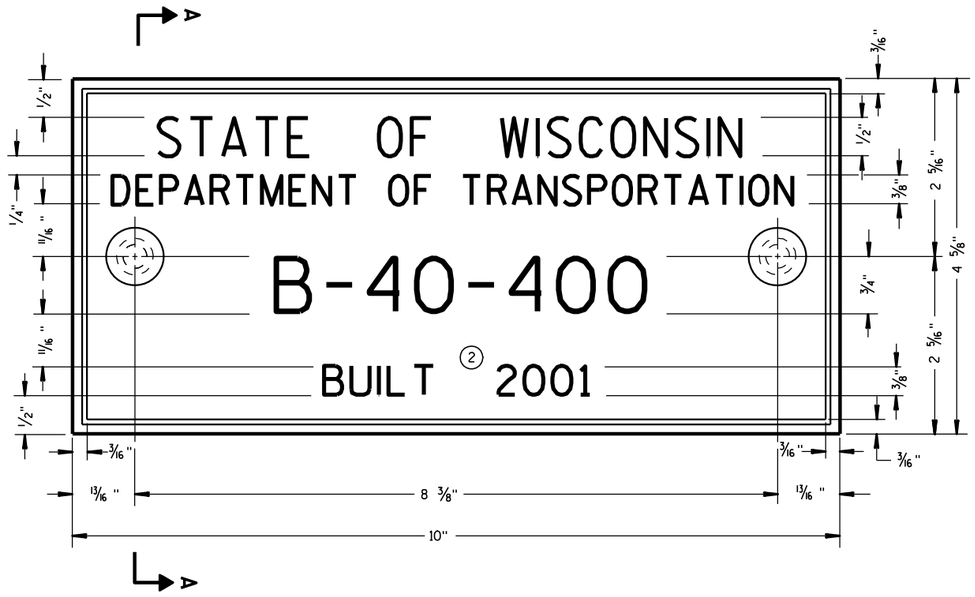
APPROVED

3/24/2011	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

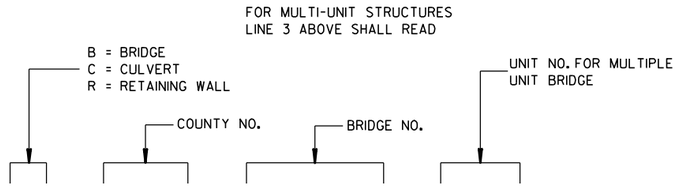
6

S.D.D. 8 E 14-1



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

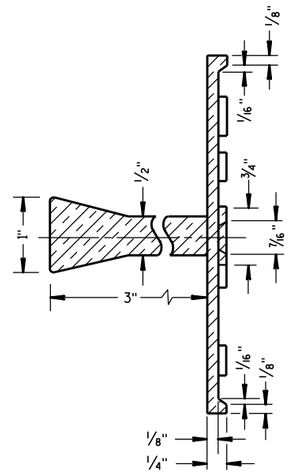
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

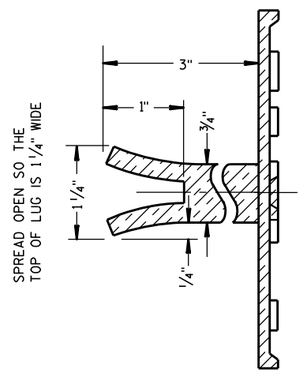
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

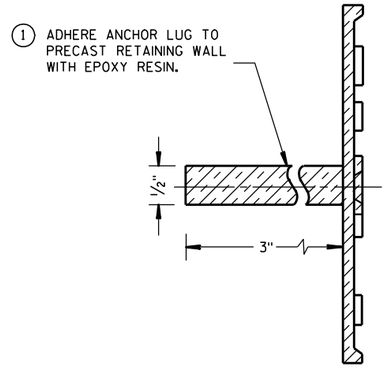
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

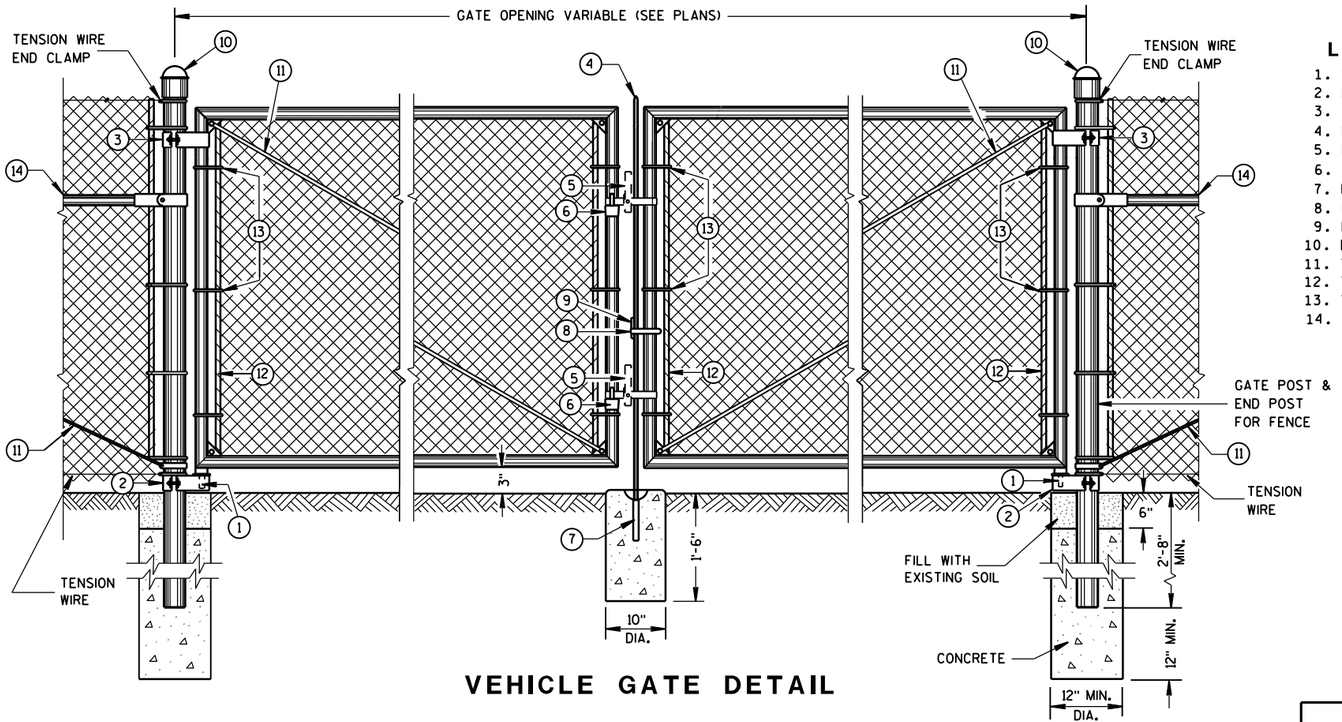
3/26/10 DATE

/S/ Scot Beck-- CHIEF STRUCTURAL DEVELOP ENGINEER

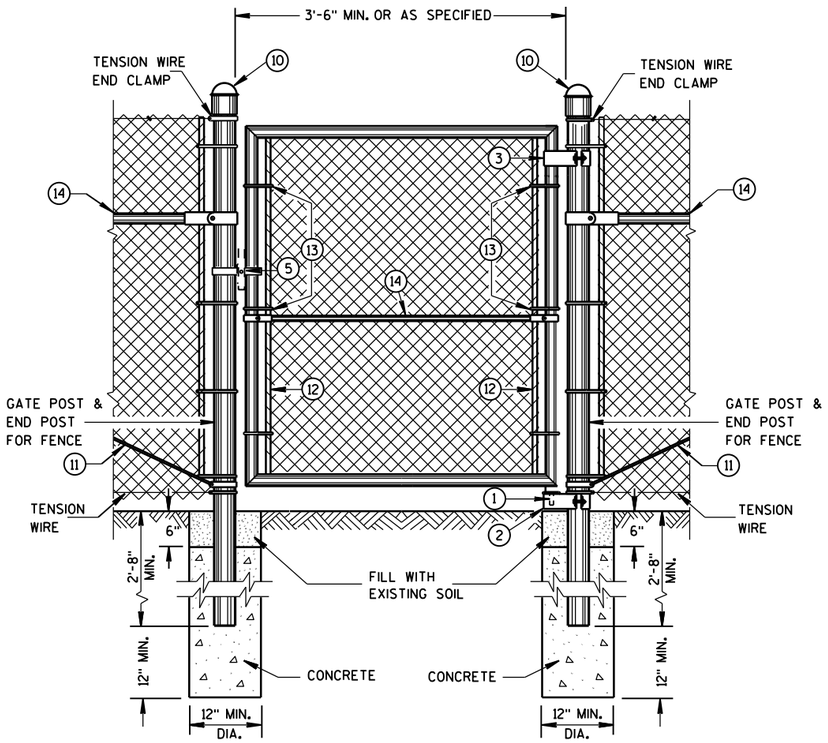
FHWA

6

S.D.D. 12 A 3-10



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

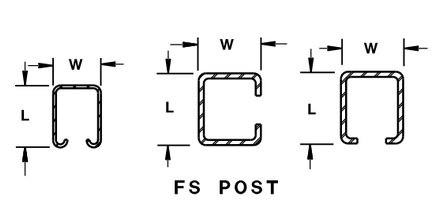
FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FORMED STEEL FENCE POST

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

REQUIRED POST SIZE FOR GATES

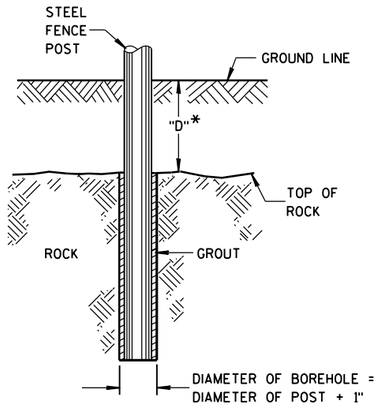
USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR ROUND STEEL FENCE POST

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

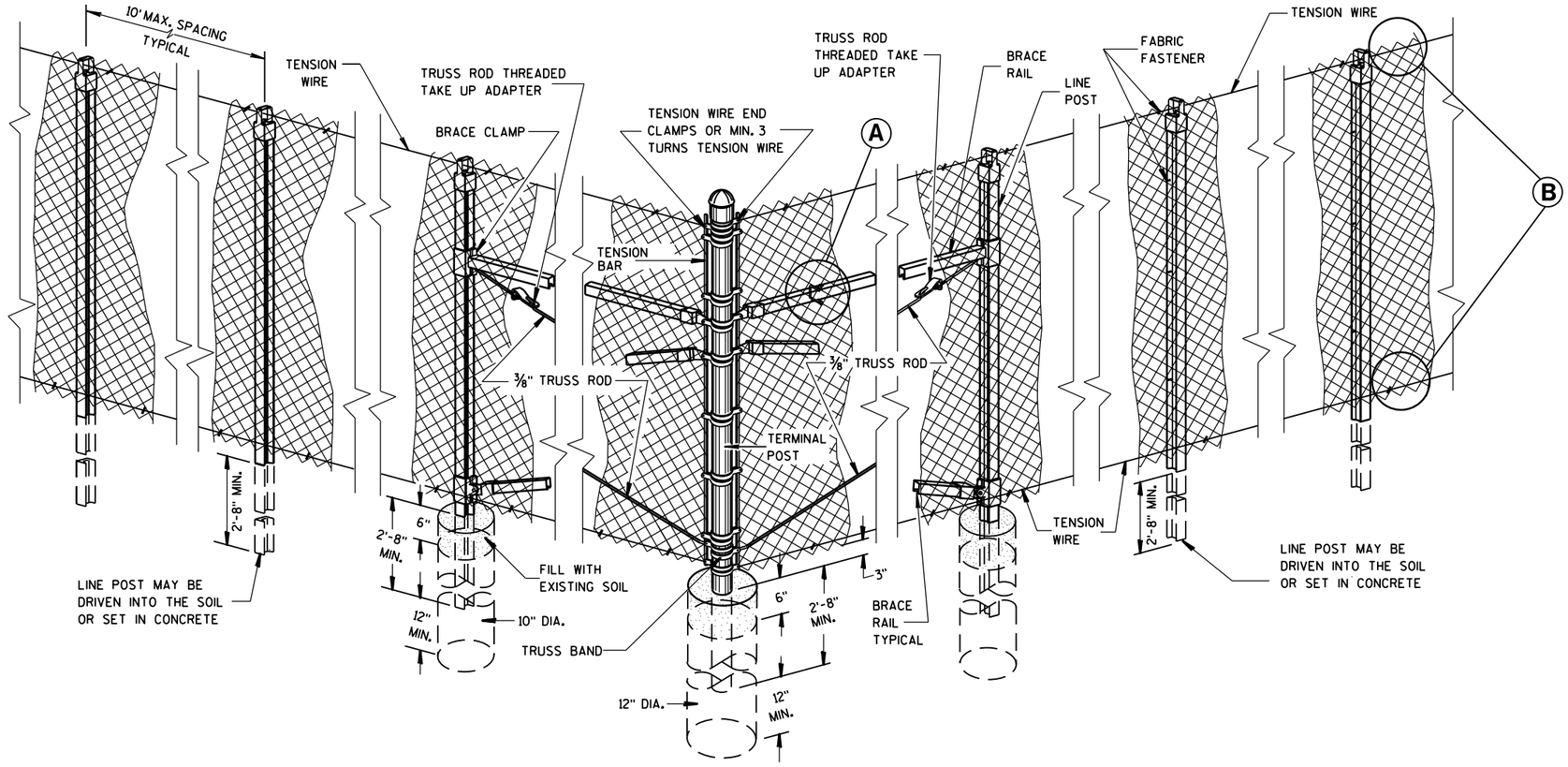
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

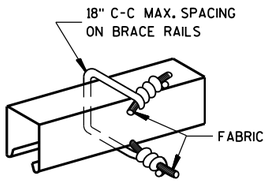


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



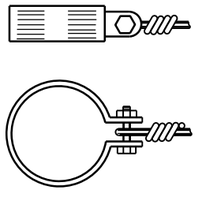
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



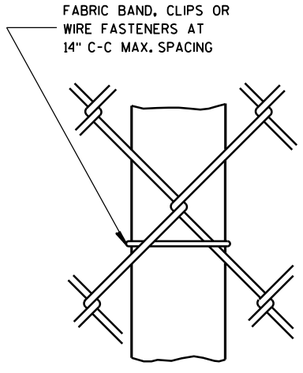
BRACE RAIL

FABRIC FASTENER

Ⓐ



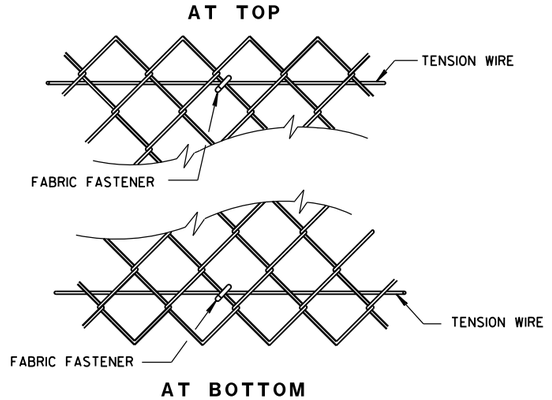
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

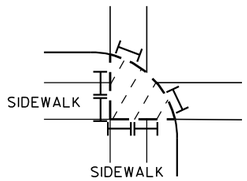
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

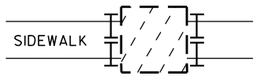
APPROVED
7/16/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

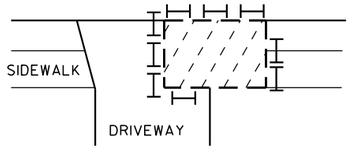
6

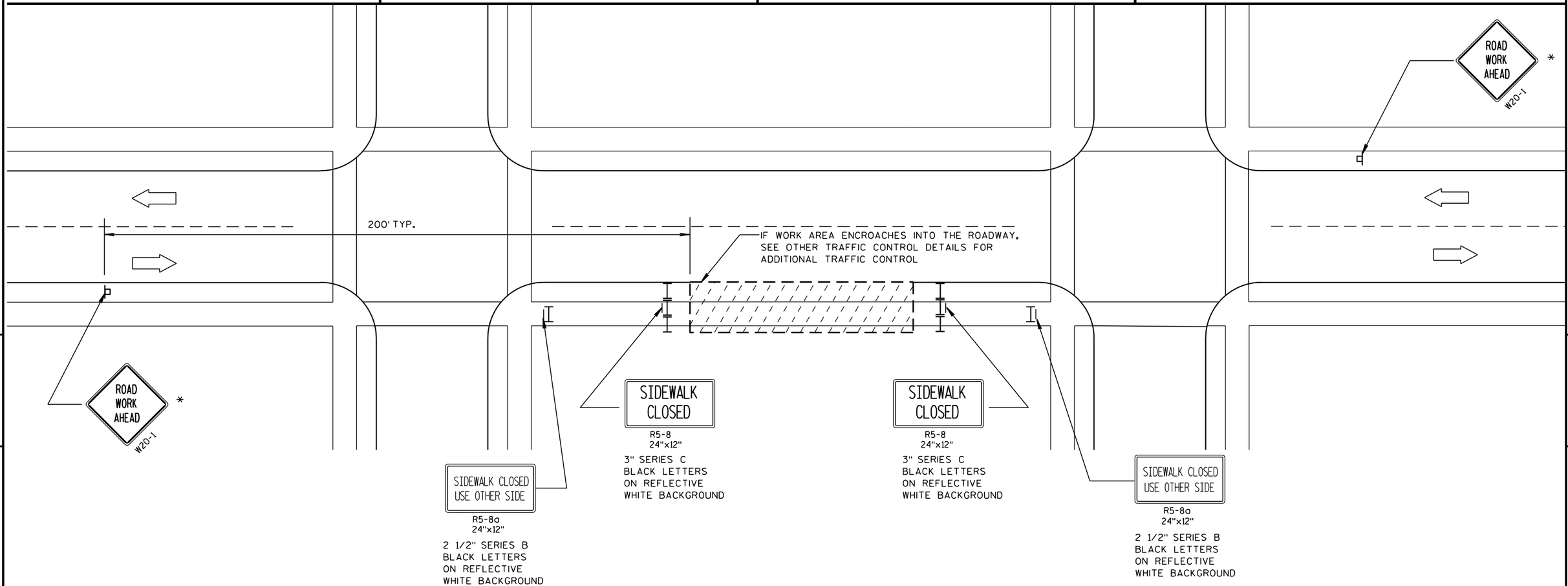
S.D.D. 15 B 3-13b

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible]NEER
FHWA

6

S.D.D. 15 D 30-1

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II. ACCESS REQUIREMENTS

III. USE AND OCCUPANCY REQUIREMENTS

IV. CONSTRUCTION REQUIREMENTS

V. INTERIOR FINISHES

VI. FIRE PROTECTION SYSTEMS

VII. EXIT REQUIREMENTS

VIII. RAILROAD REQUIREMENTS

I. GENERAL

A. Project Summary

1.	Project Name	MILWAUKEE INTERMODAL SHED RENOVATION
2.	Project Location	MILWAUKEE INTERMODAL STATION 433 W. St. Paul Ave. Milwaukee, WI 53203

B. Building Summary

3.	Project Type:	Renovation of existing access to the passenger platforms and renovation to existing weather protection to the passenger platforms
4.	Use and Occupancy Classification	Low-Hazard Storage, Group S-2 (IBC 2006)
5.	Project Height	NA. Renovation of Existing
6.	Gross Square Feet	NA. Renovation of Existing

C. Applicable Codes & Standards included herein but not limited to:

1. International Building Code, 2006 Edition (IBC 2006)
2. ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)
3. Wisconsin Administrative Code (WAC)
4. International Energy Conservation Code (IECC)
5. International Mechanical Code (ICM)
6. ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities

D. This document is intended as a summary of the specific code provisions relevant to the Architectural design of the Project

Category	Requirement	Reference
II. ACCESS REQUIREMENTS		
	TITLE 49, part 37, subpart C, 37.55: All intercity rail stations shall be made readily accessible to and usable by individuals with disabilities, including individuals who use wheelchairs, as soon as practicable, but in no event later than July 26th, 2010.	
A. Accessible route, location	1. At least one accessible route within the boundary of the site shall be provided from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance they serve. *The accessible route shall, to the maximum extent feasible, coincide with the route for the general public.*	ADAAG 4.3.2(1)
	2. At least one accessible route shall connect accessible buildings, facilities, elements, and spaces that are on the same site.	ADAAG 4.3.2(2)
	3. Rapid, light and commuter rail key stations, as defined under criteria established by the Department of Transportation in subpart C of 49 CFR part 37 and existing intercity rail stations shall provide at least one accessible route from an accessible entrance to those areas necessary for use of the transportation system.	ADAAG 10.3.2(1)
	4. Elements such as ramps, elevators or other circulation devices, …shall be placed to minimize the distance which wheelchair users and other persons who cannot negotiate steps may have to travel compared to the general public. The circulation path for persons with disabilities shall coincide with the circulation path for the general public. Where the circulation path is different, signage shall be provided to indicate direction to and identify the accessible entrance and accessible route.	ADAAG 10.3.1(1)
B. Accessible route	Min. clear width for accessible route = 36" Min. clear width for passing space = 60"	ADAAG 4.3.3 & 4.3.4
C. Protruding objects	Minimum clear head room = 80"	ADAAG 4.4.2
D. Curb ramps	1. Curb ramps shall be provided wherever and accessible route crosses a curb.	ADAAG 4.7.1
	2. Curb ramps shall have detectible warning extending the full width of the curb ramp (exclusive of flared sides) and shall extend either the full depth of the curb ramp or 24 inches deep minimum measured from the back of the curb on the ramp surface.	ADAAG 4.7.7

STATE PROJECT NUMBER

1000-40-70

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G-003	CODE ANALYSIS PT3
G-004	CODE ANALYSIS PT4
G-005	CODE ANALYSIS PT5
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G-101	EGRESS DIAGRAM, ABBREVIATIONS, SYMBOLS & NOTES
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A-902	EXISTING STATION WINDOW DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

CODE ANALYSIS PT1, INDEX OF DRAWINGS

SHEET G-001

107

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = N/A

Category	Requirement	Reference
E. Elevators	1. *Accessible* elevators shall be on an accessible route and shall comply with 4.10 and with the *ASME A17.1-1990, Safety code for Elevators and Escalators.*	ADAAG 4.10.1
	2. Where provided, elevators shall be glazed or have transparent panels to allow an unobstructed view both in to and out of the car.	ADAAG 10.3.1(17)
F. Escalators	1. Escalators shall have a minimum clear width of 32 inches. At the top and bottom of each escalator run, at least two contiguous treads shall be level beyond the comb plate before the risers begin to form. All escalator treads shall be marked by a strip of clearly contrasting color, 2 inches in width, placed parallel to and on the nose of each step. The strip shall be of a material that is at least as slip resistant as the remainder of the tread. The edge of the tread shall be apparent from both ascending and descending directions.	ADAAG 10.3.1(16)
G. Platform Lifts *(Wheelchair Lifts)*	1. Platform lifts (wheelchair lifts) shall comply with 4.11 and with the *ASME A17.1 Safety Code for Elevators and Escalators, Section XX, 1990.*	ADAAG 4.11.2
H. Doors	1. Doorways shall have a minimum clear opening of 32 inches with the door open 90 degrees, measured between the face of the door and the opposite stop.	ADAAG 4.13.5
	2. Automatic doors shall comply with ANSI/BHMA A156.10-1985. Slowly opening, low-powered automatic doors shall comply with ANSI A156.19-1984.	ADAAG 4.13.12
I. Detectable warnings	1. Detectable warnings shall consist of raised truncated domes with a diameter of nominal 0.9 in (23mm), a height of nominal 0.2 in (5mm) and a center-to-center spacing of nominal 2.35 in (60mm) and shall contrast visually with adjoining surfaces, dark-on-light or vice-versa.	ADAAG 4.29.2
	2. If a walk crosses a vehicular way and curbs, railing or other elements do not separate the walking surfaces, the boundary between shall be defined by a 36" wide detectable warning texture.	ADAAG 4.29.5
	3. Platform edges bordering a drop-off and not protected by platform screens or guard rails shall have a detectable warning 24 inches wide running the full length of the platform drop-off.	ADAAG 10.3.1(8)

Category	Requirement	Reference
J. Signage	1. Stations shall have identification signs. Signs shall be placed at frequent intervals and shall be clearly visible from within the vehicle on both sides when not obstructed by another train.	ADAAG 10.3.1(5)
	2. A minimum of one sign identifying the specific station shall be provided on each platform or boarding area.	ADAAG 10.3.1(6)
K. Platform and vehicle floor coordination	1. Station platforms shall be positioned to coordinate with vehicles in accordance with the applicable requirements of 36 CFR part 1192. Low-level platforms shall be 8 inches minimum above top of rail. In light rail, commuter rail, and intercity rail systems where it is not operationally or structurally feasible to meet the horizontal gap or vertical difference requirements of part 1192 or 49 CFR part 38, mini-high platforms, car-borne or platform-mounted lifts, ramps or bridge plates or similarly manually deployed devices, meeting the requirements of 49 CFR part 38, shall suffice.	IBC (2003) E109.3.2 ADAAG 10.3.1(9) EXCEPTION 2

III. USE AND OCCUPANCY REQUIREMENTS

A. Structure Use: Group S-2 Open Parking Garage (Passenger Rail Facility)	1. Renovation & refurbishment of existing open structure with roof over passenger rail platforms. Can be considered a type of garage for vehicles.	IBC 2006 311.3

08

08

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

CODE ANALYSIS PT2

SHEET G-002

108

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file=
SCALE = N/A

Category	Requirement	Reference

IV. CONSTRUCTION REQUIREMENTS

A. Construction type and name — 1. Type IIB - Noncombustible

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (Hours)

IBC 2006 Table 601

Building element	Type I A	Type I B	**Type II A**	**Type II B**
Structural Frame [a]	3[b]	2[b]	**1**	**0**
Bearing Walls				
Exterior	3	2	**1**	**0**
Interior	3[b]	2[b]	**1**	**0**
Nonbearing walls and partitions				
Exterior (see Table 602 below)	1	1	**1**	**0**
Interior	0	0	0	**0**
Floor Construction	2	2	**1**	**0**
Roof Construction	1 1/2[c]	1[c]	1[c]	**0**

a. The structural frame shall be considered to be the columns and the girders, beams, trusses and spandrels having direct connections to the columns and bracing members designed to carry gravity loads. The members of floor or roof panels that have no connection to the columns shall be considered secondary members and not a part of the structural frame.

b. 1. Except in Factory –Industrial (F-1), Hazardous (H), Mercantile (M) and Moderate-hazard Storage (S-1) occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below.

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE

IBC 2006 Table 602

Fire Separation Distance (feet)	Type of Construction	Group A,B,E, F-2, I,R,S-2,U
< 5	**All**	**1**
>/=5 to <10	IA	1
	Others	1
>/=10 to <30	IA, IB	1
	IIB, VB	**0**
	Others	1
>/=30	All	0

B. Allowable height and building area — 1. 50,000 sq. ft. ; 8 tiers

OPEN PARKING GARAGES AREA AND HEIGHT

IBC 2006 Table 406.3.5

Type of Construction	Area per Tier (square feet)	Height (in tiers)
IA	Unlimited	Unlimited
IB	Unlimited	12 tiers
IIA	50,000	10 tiers
IIB	**50,000**	**8 tiers**
IV	50,000	4 tiers

Category	Requirement	Reference

C. Glass & Glazing

1. Safety Glazing — IBC 2406.3

a. Glazing in swinging doors except jalousies
b. Glazing in fixed and sliding panels of sliding door assemblies and panels in sliding and bi-fold closet door assemblies.
c. Glazing in an individual fixed or operable panel adjacent to a door where the nearest exposed edge of the glazing is within a 24-inch arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches above the walking surface.
d. Glazing in an individual fixed or operable panel:
   1. greater than 9 square feet
   2. Exposed bottom edge less than 18 inches above the floor
   3. Exposed top edge greater than 36 inches above the floor
   4. One or more walking surface(s) within 36 inches horizontally of the plane of the glazing
e. Glazing in guards and railings, including structural baluster panels and nonstructural in-fill panels, regardless of area or height above a walking surface.
f. Glazing adjacent to stairways, landings and ramps within 36 inches horizontally of a walking surface; when the exposed surface of the glass is less than 60 inches above the plane of the adjacent walking surface.
g. Glazing adjacent to stairways within 60 inches horizontally of the bottom tread of a stairway in any direction when the exposed surface of the glass is less than 60 inches above the nose of the tread.
   Exception
   1. Side of stairway, landing or ramp has a guardrail or handrail, including balusters or in-fill panels.
   2. The plane of the glass is greater than 18 inches from the railing.

V. FIRE PROTECTION SYSTEMS

A. Automatic Sprinkler Systems — 1. An Automatic Sprinkler System is **not required** as the building is classified as an **open** parking structure. — IBC 2006 903.2.9

B. Portable Fire Extinguishers — 1. Portable fire extinguishers shall be provided in occupancies and locations as required by the *International Fire Code.* — IBC 2006 906.1

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NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

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CODE ANALYSIS PT3

SHEET G–003

109

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE =N/A

Category	Requirement	Reference
VI. EGRESS REQUIREMENTS		
A. Minimum Requirements	1. It shall be unlawful to alter a building or structure in a manner that will reduce the number of exits or the capacity of the means of egress to less than required by this code.	IBC 2006 1001.2
B. Ceiling Height & Protruding Objects	1. The means of egress shall have a ceiling height of not less than 7 feet 6 inches.	IBC 2006 1003.2
	2. Protruding objects are permitted to extend below the minimum ceiling height required by section 1003.2 provided a minimum headroom of 80 inches shall be provided…	IBC 2006 1003.3.1
	3. Protruding objects shall not reduce the minimum clear width of accessible routes….	IBC 2006 1003.3.4
C. Means of Egress Continuity	1. The path of egress travel along a means of egress shall not be interrupted by any building element other than a means of egress component as specified in this chapter. Obstructions shall not be placed in the required width of a means of egress except projections permitted by this chapter. The required capacity of a means of egress system shall not be diminished along the path of egress travel.	IBC 2006 1003.6
D. Elevators, Escalators & Moving Walkways	1. Elevators, escalators and moving walks shall not be used as a component of a required means of egress from any other part of the building.	IBC 2006 1003.7
	Exception: Elevators used as an accessible means of egress in accordance with Section 1007.4.	
	Exception: Escalators shall be permitted to be used as a means of egress, provided that in calculating egress capacity one escalator at each level shall be considered as being out of service.	NFPA 130 5.5.6.3.2.4 & 5.5.6.3.2.6

Category	Requirement	Reference
E. Occupant Load	1. The occupant load for a station shall be based on the train load of trains simultaneously entering the station on all tracks in normal traffic direction plus the simultaneous load awaiting trains.	NFPA 130 5.5.5.1
	2. The train load shall consider only one train at any one track.	NFPA 130 5.5.5.2
	3. At multiplatform stations, the maximum occupant load for each platform shall be considered separately for the purpose of sizing the means of egress from that platform.	NFPA 130 5.5.5.4
	4. The entraining load for each platform shall be the sum of the entraining loads for each track serving that platform.	NFPA 130 5.5.5.6.2
	5. The maximum train load at each track shall be the maximum passenger capacity for the largest capacity train operating on that track during the peak period.	NFPA 130 5.5.5.6.4
F. Egress Capacity	1. Platform Evacuation Time. There shall be sufficient egress capacity to evacuate the platform occupant load from the station platform in 4 minutes or less.	NFPA 130 5.5.6.1
	2. Evacuation Time to a Point of Safety. The station also shall be designed to permit evacuation from the most remote point on the platform to a point of safety in 6 minutes or less. *Refer to the Egress Diagram and Calculations on Sheet G-101 of the drawing set for demonstration of achievement of all egress requirements.*	NFPA 130 5.5.6.2
G. Means of Egress Illumination	1. The means of egress, including the exit discharge, shall be illuminated at all times the building space served by the means of egress is occupied.	IBC 2006 1006.1
H. Accessible Means of Egress	1. Accessible spaces shall be provided with not less than on accessible means of egress. **Exception:** 1. Accessible means of egress are not required in alterations to existing buildings. 2. One accessible means of egress is required from an accessible mezzanine level in accordance with Section 1007.3, 1007.4 or 1007.5.	IBC 2006 1007.1

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CODE ANALYSIS PT4

SHEET G-004

110

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Category	Requirement	Reference
	2. Each required accessible means of egress shall be continuous to a public way and shall consist of one or more of the following components: Accessible routes. Stairways within vertical exit enclosures. Exterior exit stairways. Elevators.	IBC 2006 1007.2
I. Stairways	1. Stair dimensions Mimimum width = 44 inches Minimum headroom clearance = 80 inches Stair riser height = 7" max / 4" min. Stair tread depth = 11" min. Cross slope = 1:48	IBC 2006 1009
	2. Outdoor stairways and outdoor approaches to stairways shall be designed so that water will not accumulate on walking surfaces.	IBC 2006 1009.5.2
	3. A flight of stairs shall not have a vertical rise greater than 12 feet between floor levels or landings.	IBC 2006 1009.6
J. Common Path of Egress Travel	1. A common path of travel from the platform ends shall not exceed 25 m (82 ft) or one car length, whichever is greater.	NFPA 130 5.5.1.4
K. Exit Access Travel Distance	1. Exits shall be so located on each story such than the maximum length of exit access travel, measured from the most remote point within a story to the entrance to an exit along the natural and unobstructed path of egress travel, shall not exceed the distances given in Table 1016.1 2. Where the path of exit access includes unclosed stairways or ramps within the exit access or includes unenclosed exit ramps or stairways, the distance of travel on such means of egress components shall also be included in the travel distance measurement. The measurement along stairways shall be made on a plane parallel and tangent to the stair tread nosings in the center of the stairway. **Exceptions:** 1. In outdoor facilities with open exit access components and open exterior stairs or ramps, travel distance is permitted to be measured to the closest riser or a stair or the closest slope of a ramp.	IBC 2006 1016.1

Category	Requirement	Reference
	EXIT ACCESS TRAVEL DISTANCE OCCUPANCY | WITHOUT SPRINKLER SYSTEM (feet) | WITH SPRINKLER SYSTEM (feet) A,E,F-1,I-1,M,R,S-1 | 200 | 250 B | 200 | 300 F-2, S-2, U | **300** | 400 H-1 | Not permitted | 75 H-2 | Not permitted | 100 H-3 | Not permitted | 150 H-4 | Not permitted | 175 H-5 | Not permitted | 200 I-2, I-3, I-4 | 150 | 200	IBC 2006 Table 1016.1
L. Exits	**MINIMUM NUMBER OF EXITS FOR OCCUPANT LOAD** OCCUPANT LOAD | MINIMUM NUMBER OF EXITS 1-500 | 2 501-1000 | 3 More than 1000 | 4	IBC 2006 Table 1019.1
M. Exit Discharge	1. Exits shall discharge directly to the exterior of the building. The exit discharge shall be at grade or shall provide direct access to grade. The exit discharge shall not reenter a building.	IBC 2006 1024.1
	2. The capacity of the exit discharge shall be not less than the required discharge capacity of the exits being served.	IBC 2006 1024.2
	3. Exterior balconies, stairways and ramps shall be located at least 10 feet from adjacent lot lines and from other buildings on the same lot unless the adjacent building exterior walls and openings are protected in accordance with Section 704 based on fire separation distance.	IBC 2006 1024.3
	4. Exit discharge components shall be sufficiently open to the exterior so as to minimize the accumulation of smoke and toxic gases.	IBC 2006 1024.4
	5. The exit discharge shall provide a direct and unobstructed access to a public way.	IBC 2006 1024.6

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CODE ANALYSIS PT5

SHEET G-005

111

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11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file=
SCALE = N/A

Category	Requirement	Reference
VII. RAILROAD REQUIREMENTS		
A. Railroad clearance requirements:	1. Minimum horizontal clearance between the centers of adjacent and parallel tracks shall not be less than 14 feet.	*Wisconsin Administrative Code*
	2. No structure which is less than 22 feet above the T/ rail shall be constructed or reconstructed over a railroad track or over the area 8 feet 6 inches from the track centerline on each side of the track	*Commissioner of Railroads* *Chapter RR 2: Railroads*
	Passenger platforms: Platform height: — Platform edge: ≤ 4" above T/ rail — 4'-6" from CL/ track ≥ 4" but ≤ 8" above T/ rail — 5'-1" from CL/ track ≥ 8" but ≤ 21" above T/ rail — 6'-0" from CL/ track ≤ 21" above T/ rail — 8'-0" from CL/ track	

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

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CODE ANALYSIS PT6

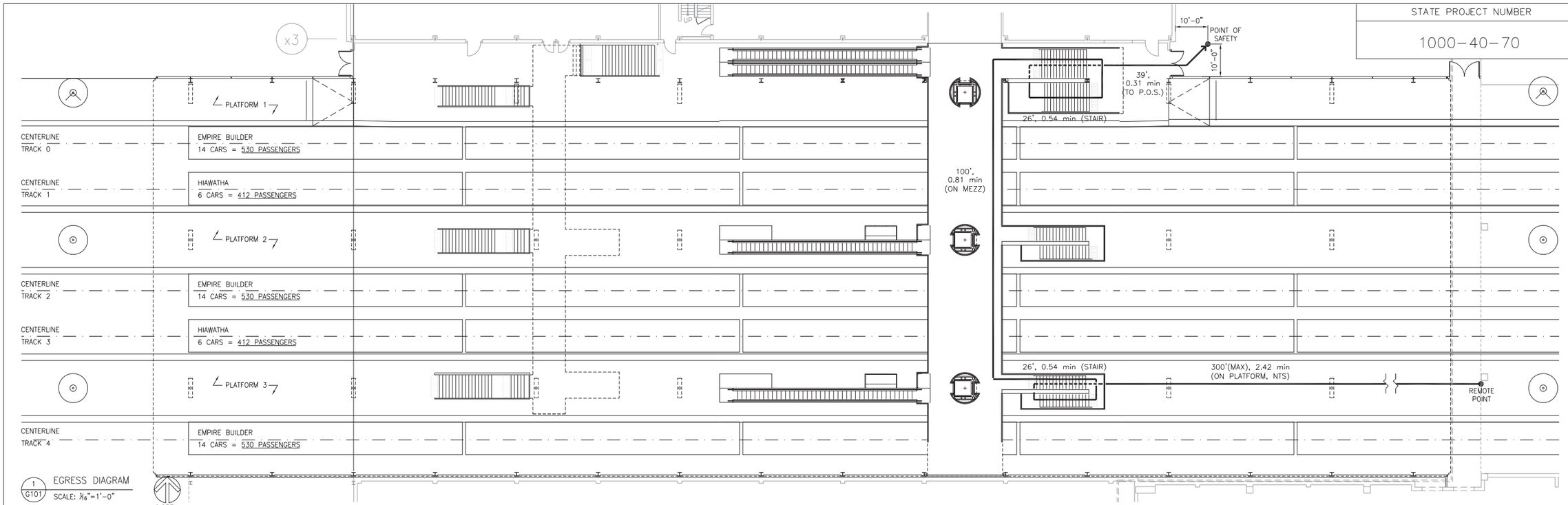
SHEET G–006

112

file=
SCALE =N/A

STATE PROJECT NUMBER

1000-40-70



1 / G101 EGRESS DIAGRAM
SCALE: 1/16"=1'-0"

ARCHITECTURAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
B/	BOTTOM OF
CCW	COUNTER CLOCKWISE
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT(S)
CONC	CONCRETE
CONT	CONTINUOUS
CW	CLOCKWISE
DIA	DIAMETER
DS	DOWNSPOUT
DTL	DETAIL
DW	DETECTABLE WARNING
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELE	ELECTRICAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EXST'G	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET

ARCHITECTURAL ABBREVIATIONS (cont.)

FIN	FINISH(ED)
FNDN	FOUNDATION
FLR	FLOOR
FRT	FIRE RETARDANT TREATED
FT	FOOT, FEET
GA	GAGE, GAUGE
GB	GYPSUM BOARD
GYP	GYPSUM
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP/	HIGH POINT OF
HSS	HOLLOW STEEL SECTION
INSUL	INSULATION
JB, J-BOX	JUNCTION BOX
MO	MASONRY OPENING
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MTL	METAL
MIN	MINIMUM
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
OC	ON CENTER
OH	OPPOSITE HAND
PSC	POLISHED & SEALED CONCRETE
REP	REINFORCED EPOXY POLYMER

ARCHITECTURAL ABBREVIATIONS (cont.)

R0'-0"	RADIUS = 0'-0"
REINF	REINFORCED, REINFORCING
REQ'D	REQUIRED
RM	ROOM
RO	ROUGH OPENING
ROT	ROTATED
SAFB	SOUND ATTENUATION FIRE BATT
SC	SAW CUT
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SOH	SIMILAR, OPPOSITE HAND
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SS	STAINLESS STEEL
STL	STEEL
T/	TOP OF
THK	THICK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WD	WOOD
W/	WITH
WP	WORK POINT
WR	WATER RESISTANT
WRPT	WATER REPELLENT PRESSURE TREATED
@	AT

ARCHITECTURAL GENERAL NOTES

1. ELEVATION 0'-0" ON ALL ARCHITECTURAL DRAWINGS REFERS TO THE FINISHED FLOOR ELEVATION OF THE EXISTING DEPOT (587.63). ALL OTHER ELEVATIONS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE IN REFERENCE TO THIS DATUM.
2. MECHANICAL, ELECTRICAL, PLUMBING & SITE UTILITY ELEMENTS THAT ARE SHOWN ON THE ARCHITECTURAL DRAWINGS ARE SHOWN FOR INFORMATION ONLY TO ILLUSTRATE THE INTENT FOR INSTALLATION AND/OR INTEGRATION OF SUCH ELEMENTS INTO THE ARCHITECTURAL WORK. REFER TO APPLICABLE DRAWINGS & SPECIFICATIONS FOR ALL RELATED MECHANICAL, ELECTRICAL, PLUMBING & SITE UTILITY WORK.
3. THE ARCHITECTURAL DRAWINGS INDICATE THE SCOPE OF THE WORK IN TERMS OF ARCHITECTURAL DESIGN CONCEPT, DIMENSIONS, AND MAJOR ARCHITECTURAL ELEMENTS OF THE WORK. AS BIDDING DOCUMENTS, THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE SCOPE INDICATED, THE CONTRACTOR SHALL FURNISH (UNO) ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
4. THE DRAWINGS ARE COMPLEMENTED BY THE SPECIFICATIONS. ANY ITEM OF WORK MENTIONED IN THE SPECIFICATIONS AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE PROVIDED AS IF SHOWN OR MENTIONED IN BOTH.
5. THESE DRAWINGS REPRESENT DESIGN INTENT AND IN NO WAY ARE MEANT TO DIRECT THE CONTRACTOR'S PERFORMANCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND TECHNIQUES AND FOR THE COORDINATION OF THE WORK.
6. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND CONSTRUCTION MATERIALS. ALL SHEETS ARE TO BE REVIEWED AND NOTES ON ANY ONE SHEET ARE TO BE APPLIED TO ALL RELATED DRAWINGS AND DETAILS.
7. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT THE CONSTRUCTION MANAGER PRIOR TO PROCEEDING WITH THE WORK.
8. ADJACENT AND DISSIMILAR MATERIALS THAT ARE SUBJECT TO MOLECULAR BREAKDOWN SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO PREVENT SUCH BREAKDOWN.
9. LEGENDS, ABBREVIATIONS & SYMBOLS SHOWN ON THIS SHEET APPLY TO THE "A" SERIES ARCHITECTURAL DRAWINGS.
10. PROFILES OF RAILROAD TRACKS & BED, RETAINING WALLS AND STRUCTURES ARE SHOWN ONLY TO ILLUSTRATE THE CONTEXT OF THE WORK DESCRIBED BY THE ARCHITECTURAL DRAWINGS. REFER TO THE CIVIL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ALL SITE, RAILROAD & STRUCTURAL WORK.

GENERAL ARCHITECTURAL SYMBOLS LEGEND

- PARTITION TYPE TAG
- WINDOW TYPE TAG
- SIGNAGE TAG
- X — CEILING DETAIL TAG
- XXXX — DOOR NUMBER
- ROOM NAME / NO. — ROOM TAG
- 0 / A000 — SECTION TAG
- 0 / A000 — ELEVATION TAG
- 0 / A000 — DETAIL AREA
- REVISION CLOUD
- 1 — REVISION TAG

GENERAL ARCHITECTURAL MATERIALS LEGEND

- CONCRETE
- PLYWOOD
- WOOD BLOCKING
- STAINLESS STEEL
- STEEL
- MASONRY
- GRAVEL, STONE
- EARTH
- BATT INSULATION
- BOARD INSULATION
- GYPSUM BOARD/ CEMENT BOARD
- ASPHALT
- SAFB

EGRESS CALCULATIONS

TEST 1

EGRESS CAPACITY - PLATFORM EVACUATION TIME

EGRESS WIDTH CAPACITY: SEE NOTE 4
(54"(stair) + 90"(tunnel stair) + 32"(escalator)) x 1.41 people/inch-minute = 248 PEOPLE/MINUTE

Fp = 942 people / 248 people per minute = 3.80 MINUTES (≤ 4.00 MINUTES)

TEST 2

TRAVEL DISTANCES & TOTAL EXIT TIME FROM REMOTE POINT TO POINT OF SAFETY

WALKING TIME ON PLATFORM (T1): 300'-0" MAX TRAVEL DIST FROM REMOTE POINT ON PLATFORM PER 5.5.6.1.1
300'(MAX), 2.42 MINUTES

WALKING TIME ON STAIRS (UP & DOWN): SEE NOTE 5
52' (26'x2), 1.08 MINUTES

WALKING TIME ON MEZZANINE:
100', 0.81 MINUTES

WALKING TIME TO P.O.S.
39', 0.31 MINUTES

TOTAL WALKING TIME (T):
T = (300', 2.42 min) +
(52' stairs, 1.08 min) + (100' on mezzanine, 0.81 min) +
(39' to p.o.s., 0.30 min)= 490', 4.61 MINUTES

WAITING TIME AT PLATFORM (Wp):
3.80 minutes - 2.42 minutes = 1.38 MINUTES

FARE BARRIER EXIT CAPACITY (EXIT DOORS):
(90"(E&W egress doors)x2) + (65"(main sliding doors)x2) x 2.08 people/inch-minute = 645 PEOPLE/MINUTE

FARE BARRIER FLOW TIME (Ffb):
2414 people / 645 people per minute = 3.74 MINUTES

WAITING TIME AT SHED EXITS (Wshed):
3.74 minutes - 3.80 minutes = .00 MINUTES

TOTAL EXIT TIME:
4.61 minutes + 1.38 minutes + 0.00 minutes + 0.00 minutes = 5.99 MINUTES (≤6.00 MIN)

EGRESS CALCULATION NOTES:

1. ALL CALCULATIONS, RATES, FIGURES, ETC. PER NFPA 130 2007 Ed.
2. THE SCOPE OF THE ANALYSIS IS WITHIN 300'-0" OF MEZZANINE & TUNNEL STAIRS, RESPECTIVELY
3. WAITING TIME WITHIN DEPOT (Wdepot) CALCULATED TO BE ZERO DUE TO THE DIFFERENCE OF FARE BARRIER FLOW TIME WITHIN SHED (Ffb) FROM FARE BARRIER FLOW TIME WITHIN DEPOT EQUALING A NEGATIVE NUMBER
4. ESCALATOR COUNTED IN CALCULATIONS PER NFPA 130 2007 Ed. SECTION 5.5.6.3.2.2
5. STAIR TRAVEL DISTANCES TAKEN AS VERTICAL COMPONENT PER NFPA 130 2007 Ed. SECTION 5.5.6.3.2.3(2)
6. TRAIN LOCATIONS SHOWN ARE ONLY THEORETICAL

NFPA 130 CALCULATION DEFINITIONS, RATES, ETC.

-STAIR/ESCALATOR EGRESS CAPACITY RATE: 1.41 PEOPLE/INCH-MINUTE

-PLATFORM CAPACITY (TYP): 530 PASSENGERS (EMPIRE) + 412 PASSENGERS (HIAWATHA)

-PLATFORM EVACUATION TIME (Fp) = (PLATFORM CAPACITY)/(EGRESS WIDTH CAPACITY)

-RATES OF TRAVEL: 124 fpm PLATFORM, 48 fpm STAIRS (VERTICAL RISE DIMENSION)

-WALKING TIME ON PLATFORM = T1

-WAITING TIME ON PLATFORM (Wp) = Fp - T1

-FARE BARRIER EXIT CAPACITY RATE (EXIT DOORS) = 2.08 PEOPLE/INCH-MINUTE

-SHED OCCUPANT LOAD (ALL TRAINS): (530 people)3+(412 people)2 = 2414 PEOPLE

-FARE BARRIER FLOW TIME (Ffb) = (SHED OCCUPANT LOAD)/(FARE BARRIER EXIT CAP.)

-WAITING TIME AT SHED EXITS (Wshed) = Ffb - Fp

-WAITING TIME IN DEPOT (Wdepot) = 0 [SEE NOTE 3]

-TOTAL EXIT TIME: T + Wp + Wshed + Wdepot

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STRUCTURE MIS SHED

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EGRESS DIAGRAM, ABBREVIATIONS, SYMBOLS & NOTES

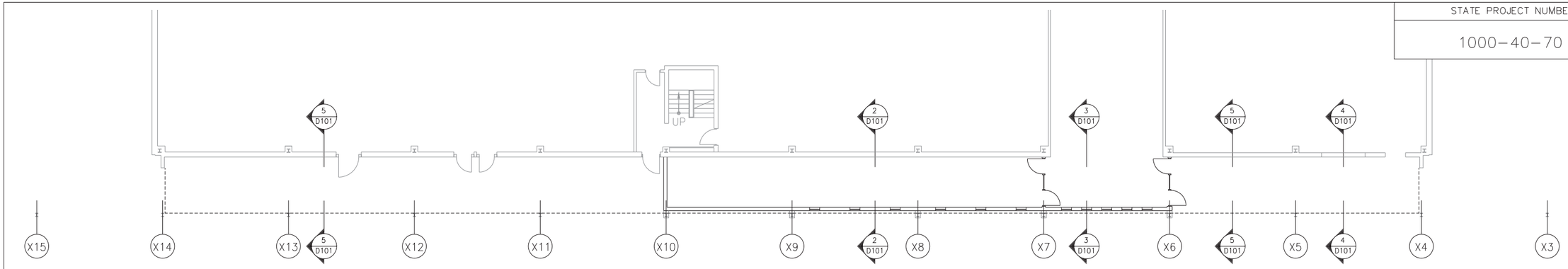
SHEET G-101

113

file= SCALE = 1/16" = 1'-0"

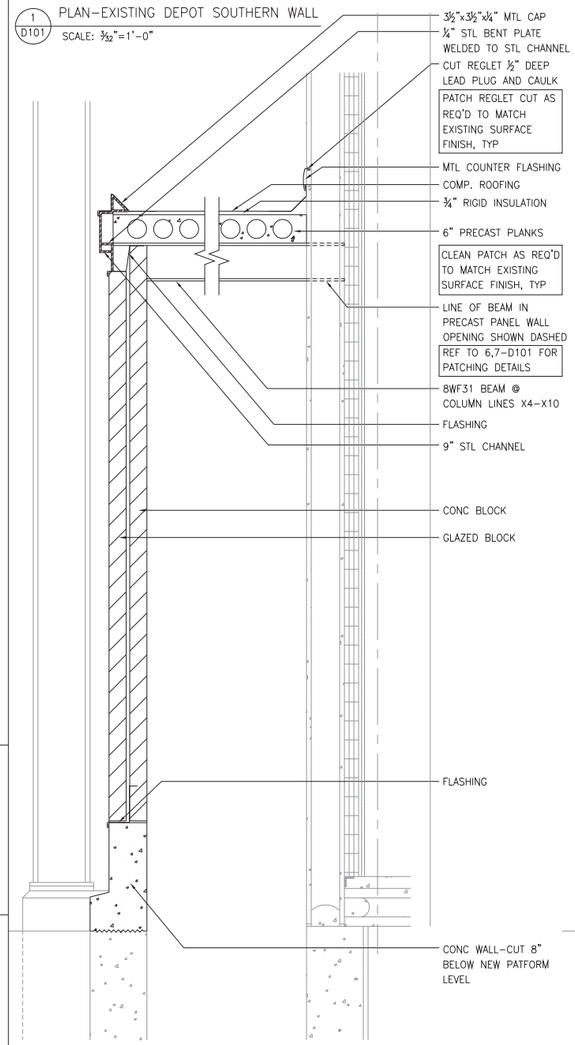
STATE PROJECT NUMBER

1000–40–70



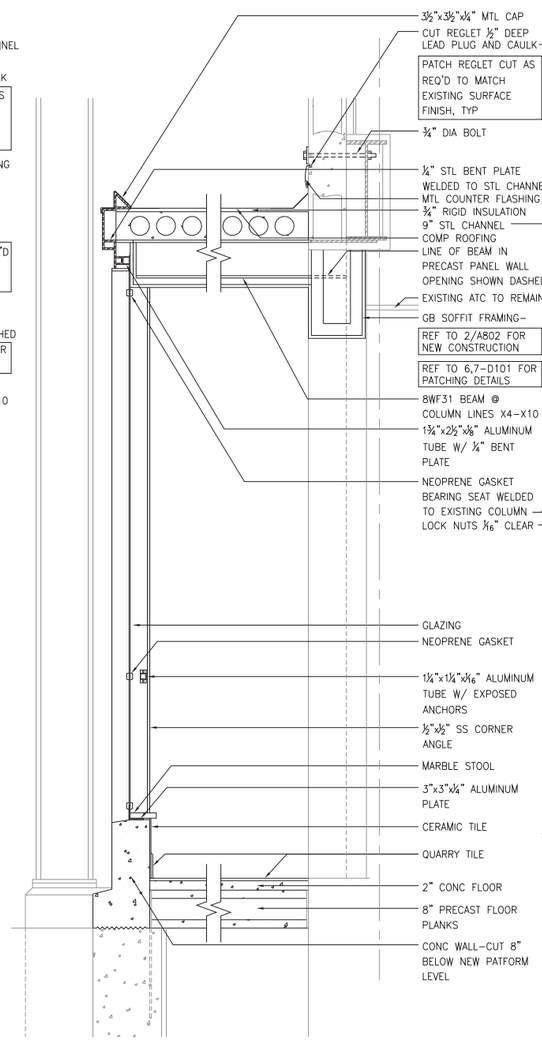
1 D101 PLAN–EXISTING DEPOT SOUTHERN WALL

SCALE: 3/32"=1'–0"



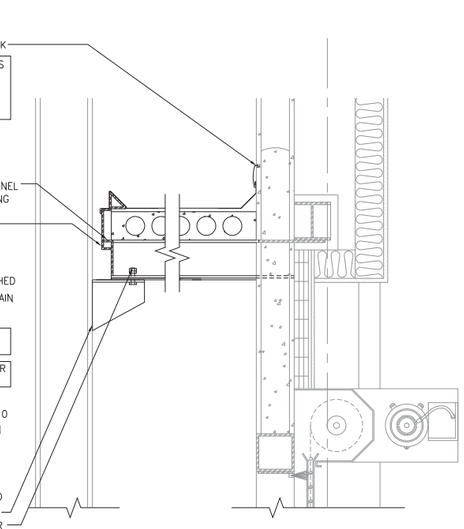
2 D101 SOUTH WALL SECTION @ RAMP

SCALE: 3/4"=1'–0"



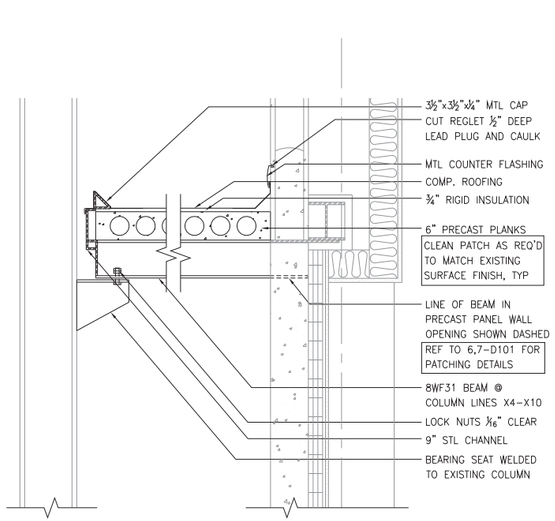
3 D101 SOUTH WALL SECTION @ AT DEPOT ENTRANCE

SCALE: 3/4"=1'–0"



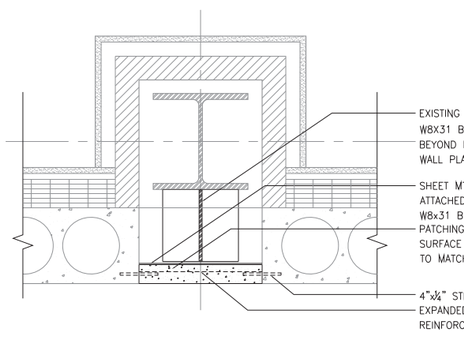
4 D101 SOUTH WALL SECTION @ OVERHEAD DOOR

SCALE: 3/4"=1'–0"



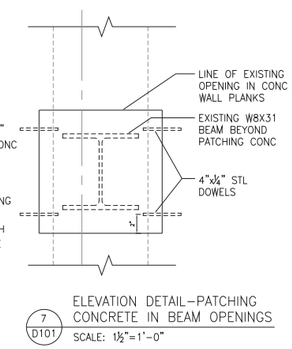
5 D101 SOUTH WALL SECTION @ CANOPY

SCALE: 3/4"=1'–0"



6 D101 PLAN DETAIL–PATCHING CONCRETE IN BEAM OPENINGS

SCALE: 1½"=1'–0"



7 D101 ELEVATION DETAIL–PATCHING CONCRETE IN BEAM OPENINGS

SCALE: 1½"=1'–0"

GENERAL SELECTIVE DEMOLITION NOTES:

1. THE SELECTIVE DEMOLITION SHOWN ON THIS SHEET COVERS THE DEMOLITION OF THE EXISTING DEPOT CANOPY & RAMP ENCLOSURE STRUCTURE ONLY. REFER TO CONTRACT DOCUMENTS FOR ALL OTHER DEMOLITION ITEMS.

2. ALL ITEMS CALLED OUT ON THIS SHEET AND DRAWN IN HARDLINE ARE TO BE REMOVED. ALL ITEMS SHOWN HALFTONE ARE TO REMAIN OR BE REMOVED ELSEWHERE IN THE CONTRACT DOCUMENTS. CONTACT ARCHITECT FOR ANY ITEMS ENCOUNTERED IN THE FIELD NOT SHOWN HEREIN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SELECTIVE DEMOLITION

SHEET D–101

114

HANNO WEBER & ASSOCIATES
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file= SCALE = 3/4"=1'–0" U.N.O.

STATE PROJECT NUMBER

1000–40–70

EXISTING DEPOT BUILDING

EXISTING POST OFFICE BUILDING

LIGHTING STANDARD, TYP–REFER TO LIGHTING PLANS & ELECTRICAL DWGS

AUTOMATIC GLAZED SLIDING ENTRANCE DOORS

LINE OF EXISTING POST OFFICE OVERHANG SHOWN DASHED HALFTONE

COLUMN HUNG SIGNAGE ABOVE SHOWN DASHED, TYP
REHAB EXISTING TUNNEL FOR ADDITIONAL EGRESS (SHOWN DASHED)

FREE STANDING SIGNAGE STANDARD, TYP

3'–6½" LENGTH HAS 4" MAX ENCROACHMENT @ ARC APEX, BOTH SIDES, TYP

50'–0" TYP

PLATFORM 1

PLATFORM 2

PLATFORM 3

CENTERLINE TRACK 0

CENTERLINE TRACK 1

CENTERLINE TRACK 2

CENTERLINE TRACK 3

CENTERLINE TRACK 4

TUNNEL STAIR STW1 DN

TUNNEL STAIR STW2 DN

TUNNEL STAIR STW3 DN

TUNNEL STAIR STW4 DN

TUNNEL LEVEL 1 A104

MEZZANINE LEVEL 1 A105

ESCALATOR PAIR ES1

ESCALATOR ES2

ESCALATOR ES3

MACHINE ROOM 101

MACHINE ROOM 102

MACHINE ROOM 103

ELEVATOR EL1

ELEVATOR EL2

ELEVATOR EL3

MEZZ. STAIR STE1

MEZZ. STAIR STE2

MEZZ. STAIR STE3

105 101 100A 100B 104 102 103

25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0"

375'–0"

X16 X15 X14 X13 X12 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1 30

EXISTING POST OFFICE PROPERTY / BUILDING

1 A101 SHED PLAN – PLATFORM LEVEL
SCALE: 1/16"=1'–0"

NORTH

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PLATFORM LEVEL SHED PLAN

SHEET A–101

115

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file= SCALE = 1/16" = 1'–0"

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A B C D E F G H I J K

x1a

x2

x3

xA

B

EXISTING DEPOT BUILDING

EXISTING POST OFFICE BUILDING

LINE OF EXISTING POST OFFICE

LINE OF EXISTING POST OFFICE OVERHANG

SKYLIGHT OVER PLATFORM 1

CROSS MEMBER @ END TRUSS, TYP

CANTILEVERED HSS SUPORT, TYP

SURFACE (COLUMN) MOUNTED UPLIGHT, TYP
M.H.=35'–1¾" TO CL/FIXTURE

ROOF VENTILATOR HOLE, TYP

INTERMEDIATE HSS @ SKYLIGHT ENDS–SEE STRUCTURAL

3'–1½" TYP

EQ TYP

EQ TYP

±11'–6" W/F

25'–1"

45'–0"

120'–8"

60" TYP

2'–10 ¾"ø TYP

PAINTED METAL DECK CEILING, TYP

3 / A601 TYP

5 / A601 TYP

11'–7" TYP OF 3

TYPICAL METAL DECK CEILING SIDE LAP JOINT PATTERN

10'–4" TO CL TRUSS

25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0" 25'–0"

10'–4" TO CL TRUSS

375'–0"

X16 X15 X14 X13 X12 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1 30

1 / A102 SHED REFLECTED CEILING PLAN

SCALE: 1/16"=1'–0"

NORTH

EXISTING POST OFFICE PROPERTY / BUILDING

8

8

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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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SHED REFLECTED CEILING PLAN

SHEET A–102

116

file= SCALE =1/16"=1'–0"

STATE PROJECT NUMBER

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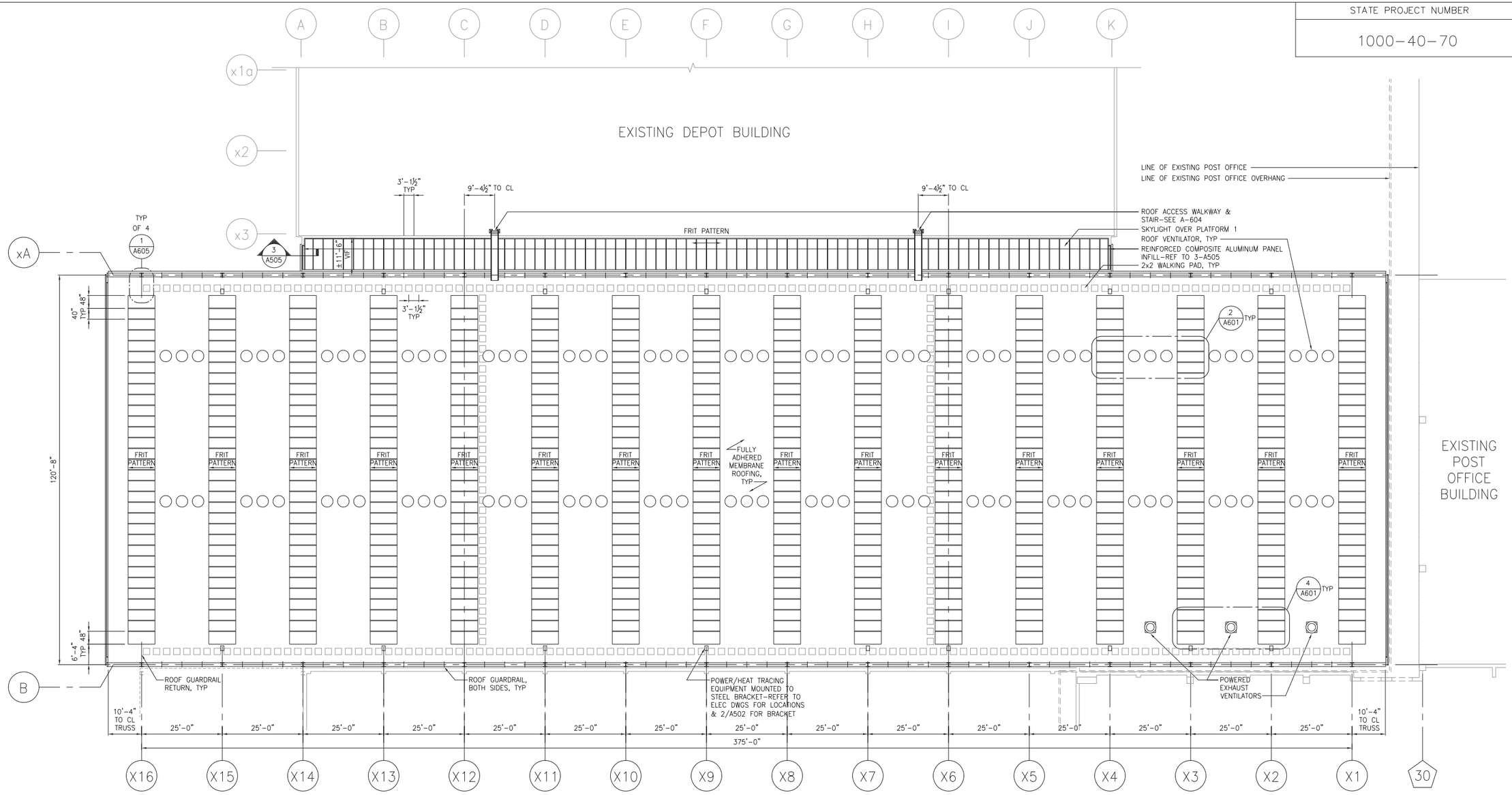


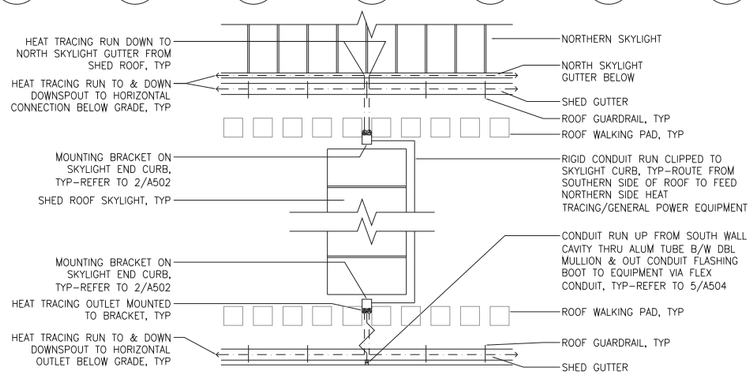
NORTH

1 A103 SHED ROOF PLAN

SCALE: 1/16"=1'–0"

2 A103 CONDUIT/HEAT TRACING ROUTING DIAGRAM–TYPICAL @ COL. LINES x2,x4,x6,x7,x9,x11, x13,x15

SCALE: ⅛"=1'–0"



POWER CONDUIT & HEAT TRACING ROUTING DIAGRAM SHOWN FOR COORDINATION WITH ARCHITECTURAL CONDITIONS ON ROOFING & GUTTERS– REFER TO AND COORDINATE WITH ELECTRICAL ROOF PLAN DRAWING E–230 AND HEAT TRACING & ELECTRICAL SPECIFICATIONS

CONDUIT LINETYPE LEGEND

RIGID CONDUIT

FLEX CONDUIT

HEAT TRACING

EXISTING POST OFFICE PROPERTY / BUILDING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ROOF PLAN

SHEET A–103

117

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RCP SYMBOL LEGEND

- SURFACE MOUNTED LINEAR FLUORESCENT
- EXIT SIGN
- WALL MOUNTED AUDIO VISUAL ALARM

PLATFORM LEVEL 1 A404

PLATFORM LEVEL 1 A401

PLATFORM LEVEL 1 A402

1 A403 PLATFORM LEVEL

xA

B

x14 x13 x12 x11

25'-0" 25'-0" 25'-0"

120'-8"

37'-9¾"

37'-4¾"

6'-0" 1'-10"

9'-4"

7'-2"

7'-2"

8'-0"

8'-0"

10'-0"

2'-4"

2'-8"

2'-8"

16'-6"

TUNNEL STAIR STW1

TUNNEL STAIR STW2

TUNNEL STAIR STW3

TUNNEL STAIR STW4

TUNNEL 001

ELEC ROOM 002

ELEC ROOM 003

SUMP ROOM 004

7.0 UP

8.0 UP

9.0 UP

14.0

19T @ 12" + 6'-0" LANDING = 25'-0"

20T @ 12" + 6'-0" LANDING = 26'-0"

COLUMN HUNG SIGNAGE ABOVE SHOWN DASHED

EXISTING TUNNEL CONSTRUCTION SHOWN HALFTONE, TYP

PLATFORM 1 (ABOVE)

REP TACTILE WARNING STRIP, TYP

FREE STANDING SIGNAGE STANDARD ABOVE SHOWN DASHED, TYP

PLATFORM 2 (ABOVE)

ADDITIONAL CONC ADDED TO EXISTING WALL SHOWN HARDLINE, TYP-REFER TO STRUCTURAL DWGS

LINE OF PLATFORM EDGE ABOVE SHOWN DASHED, TYP

PLATFORM 3 (ABOVE)

1 A104 PLAN - TUNNEL LEVEL

SCALE: ⅛"=1'-0"

NORTH

9'-9½" AFF

7'-6" AFF

PAINTED CONC, TYP

OPEN TO ABOVE

EQ

2:1

11'-5"

11'-0"

5'-0"

2 A104 RCP - TUNNEL LEVEL

SCALE: ⅛"=1'-0"

NORTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

TUNNEL PLAN & RCP

SHEET A-104

118

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file= SCALE =⅛"=1'-0"

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EXIT SIGN MOUNTED TO EXISTING DEPOT WALL BELOW WINDOW SILL, A/V ALARM MOUNTED BELOW EXIT SIGN

EXISTING DEPOT

ALUM CLADDING JOINT, TYP

PLATFORM 1

GLASS GUARDRAIL W/SS HANDRAIL, TYP

FREESTANDING ELEVATOR MACHINE ROOM W/PAINTED ALUMINUM CLADDING, TYP

CIP CONC STAIR W/PAINTED ALUM CLADDING, TYP

GLASS GUARDRAIL W/SS HANDRAIL, TYP

PLATFORM 2

CIP CONC SUPPORT WALL W/PAINTED ALUM CLADDING, TYP

REP TACTILE WARNING STRIP, TYP

CYLINDRICAL ELEVATOR SHAFT ENCLOSURE W/PAINTED ALUMINUM CLADDING, TYP

LINE OF ESCALATOR PIT COVER PLATE FOR FUTURE ESCALATOR

FREESTANDING ELEVATOR MACHINE ROOM W/PAINTED ALUMINUM CLADDING, TYP

PLATFORM 3

FULLY RECESSED LIGHT FIXTURE, BOTH SIDES OF ESCALATOR, TYP FOR ALL ESCALATORS-EXCEPTION: NORTH SIDE OF ESCALATOR PAIR ES1

A/V ALARMS MOUNTED ON WALL

CENTERLINE TRACK 0

CENTERLINE TRACK 1

CENTERLINE TRACK 2

CENTERLINE TRACK 3

CENTERLINE TRACK 4

ESCALATOR PAIR ES1

ESCALATOR ES2

ESCALATOR ES3

ELEVATOR EL1

ELEVATOR EL2

ELEVATOR EL3

MEZZANINE STAIR STE1

MEZZANINE STAIR STE2

MEZZANINE STAIR STE3

CONC/MTL DECK COMPOSITE SLAB

MEZZANINE 201

23'-0½"

45'-2¾"

45'-5"

120'-8"

25'-0" 25'-0" 25'-0" 25'-0"

x9 x8 x7 x6 x5

1 A105 PLAN - MEZZANINE LEVEL
SCALE: ⅛"=1'-0"

NORTH

JOINT BETWEEN MEZZANINE & CONC STAIR, TYP

MEZZANINE FLOOR TOOLED CONTROL JOINT, TYP

2 A105 MEZZANINE PAVING PATTERN PLAN
SCALE: ⅛"=1'-0"

3/4" 1/4" 1/4" 1/4"

3 A105 TOOLED CONTROL JOINTS
SCALE: FULL SIZE

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STRUCTURE MIS SHED

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MEZZANINE PLAN & PAVING PATTERN PLAN

SHEET A-105

119

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file= SCALE = AS NOTED

00

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STATE PROJECT NUMBER
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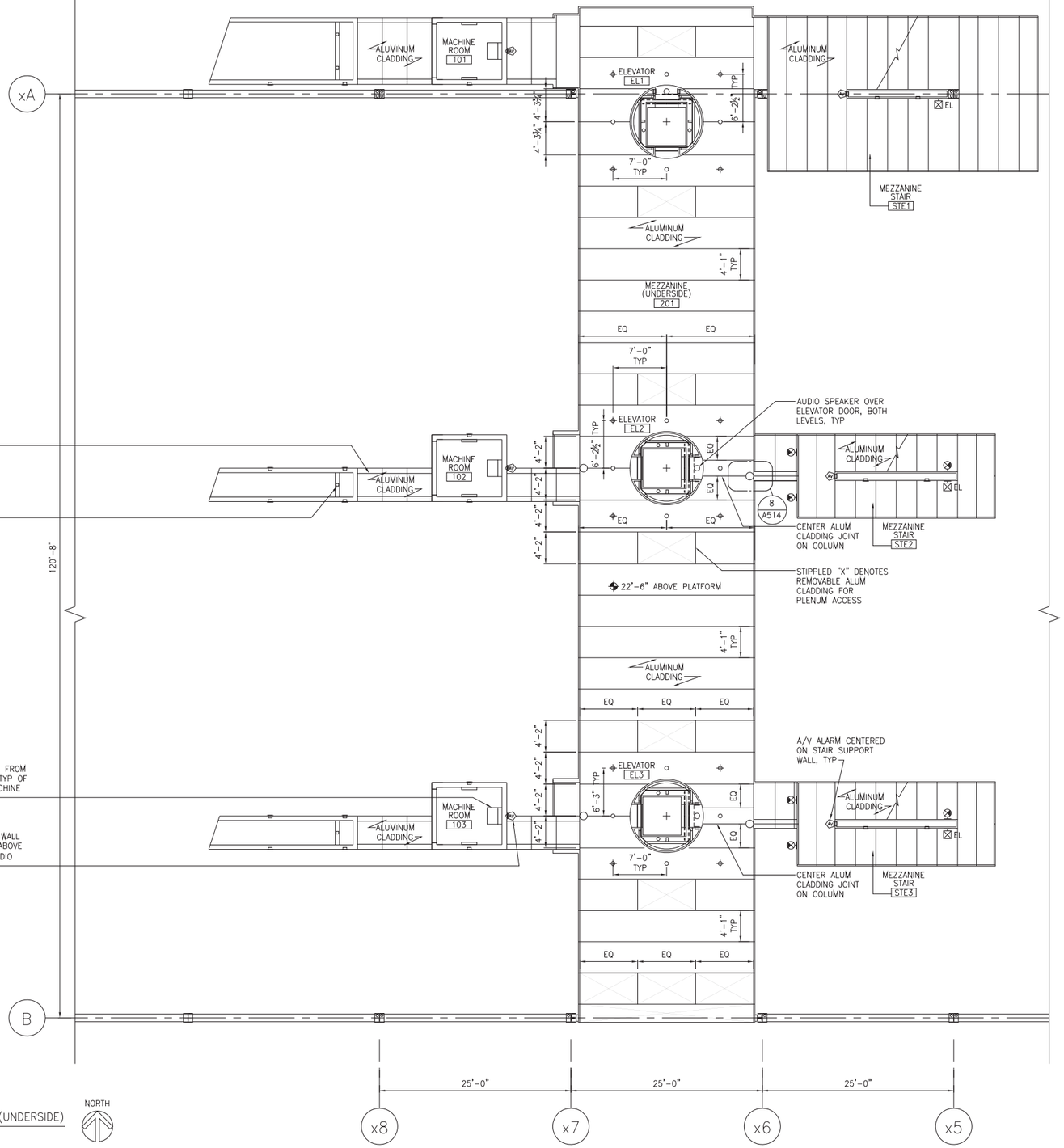
LIGHTING SYMBOL LEGEND

- RECESSED MH DOWNLIGHT
- RECESSED FLUORESCENT DOWNLIGHT
- EXIT SIGN
- RECESSED FLUORESCENT WALL LIGHT
- SURFACE MOUNTED LINEAR FLUORESCENT
- RECESSED FLUORESCENT ASYMMETRICAL WALL LIGHT
- RECESSED AUDIO SPEAKER



1 A106 RCP – MEZZANINE (UNDERSIDE)
SCALE: ⅛"=1'-0"

NORTH

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STRUCTURE MIS SHED

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MEZZANINE RCP

SHEET A–106

120

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file= SCALE = ⅛"=1'-0"

STATE PROJECT NUMBER

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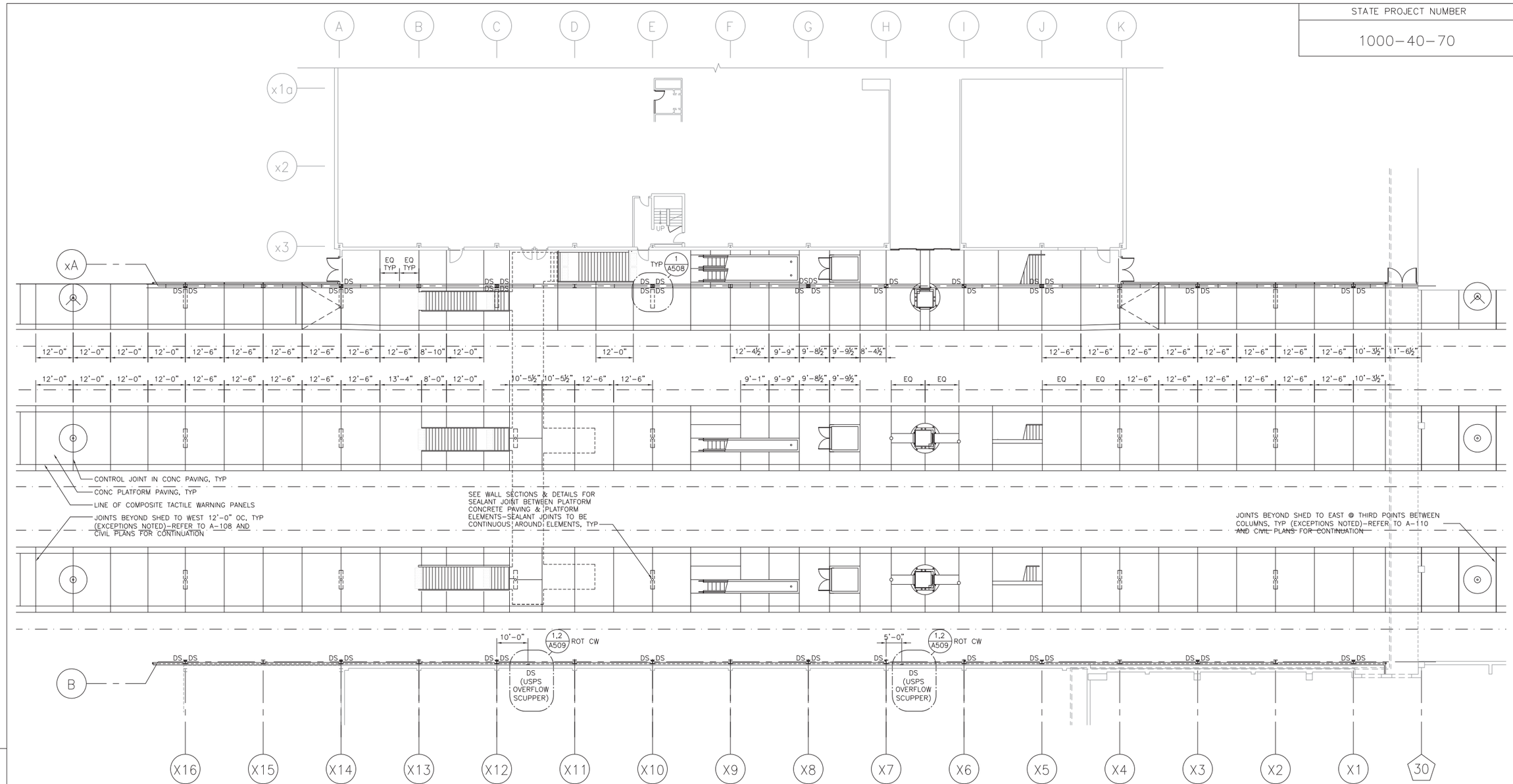

1 / A107 PAVING PATTERN & DOWNSPOUT PLAN

SCALE: 1/16"=1'–0"

GENERAL NOTES

1. THIS DRAWING SHOWS JOINT LAYOUTS FOR CONCRETE PAVING @ THE PLATFORM LEVEL. REFER TO CIVIL DRAWINGS FOR ALL PLATFORM CONSTRUCTION DETAILS.
2. JOINTS SHOWN IN LINE WITH ELEMENTS ON THE PLATFORM (COLUMNS, WALLS, OPENINGS, ETC.) SHALL BE ALIGNED WITH EDGE OF CONCRETE LINES ESTABLISHED BY THE SEALANT JOINT THAT RUNS AROUND EACH ELEMENT.
3. REFER TO CIVIL PLANS FOR ALL EXPANSION JOINT LOCATIONS.
4. JOINT LOCATIONS ON PLATFORM 3 ARE IDENTICAL TO PLATFORM 2.

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STRUCTURES DESIGN SECTION

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PLATFORM PAVING PATTERN & DOWNSPOUT PLAN

SHEET A–107

121

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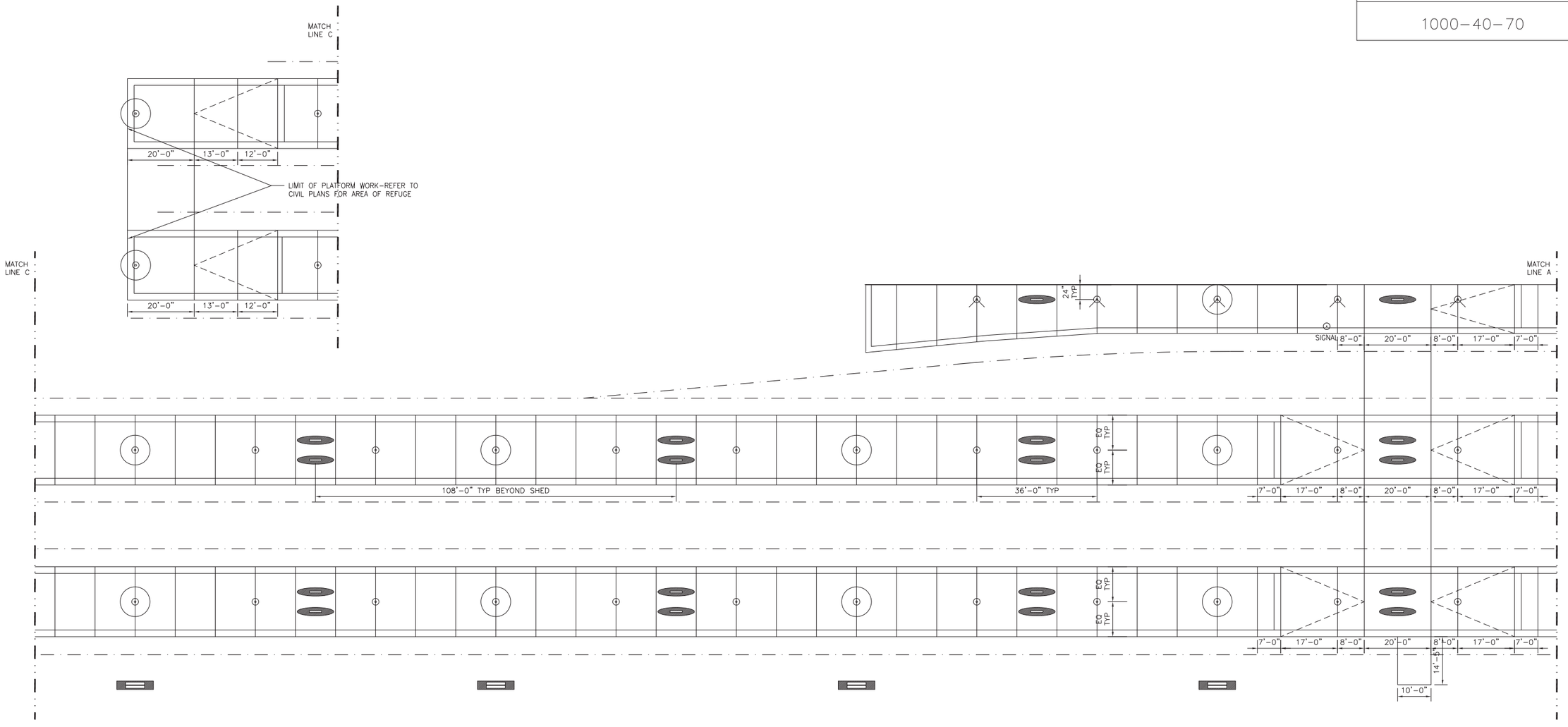
file=
SCALE = 1/16" = 1'–0"

STATE PROJECT NUMBER

1000-40-70



1 / A108 SIGNAGE LOCATION PLAN-WEST OF SHED

SCALE: 1/16"=1'-0"

SYMBOL LEGEND

- FLOOR EMBEDDED SIGN LETTERING
- POST MOUNTED SIGN PANELS
- FUTURE SIGN PANEL LOCATION
- POST MOUNTED SIGNAGE PANEL
- COLUMN MOUNTED SIGNAGE PANEL
- ASYMMETRICAL LIGHTING STANDARD
- SYMMETRICAL LIGHTING STANDARD
- CANOPY EXIT SIGN (SINGLE FACE)
- CANOPY EXIT SIGN (DOUBLE FACE)
- DIRECTIONAL EXIT SIGN
- EXIT SIGN RECESSED IN PANEL
- IR RECESSED EXIT SIGN
- IS SURFACE MOUNTED EXIT SIGN
- AV AUDIO/VISUAL ALARM
- EL CANOPY ELEVATOR SIGN
- F FIRE ALARM PULL STATION
- A/V ALARM SURFACE MOUNTED TO SIGNAGE PANEL
- EL ELEVATOR SIGN RECESSED IN SIGN PANEL
- 7.1 TACTILE SIGN TAG

NOTE: REFER TO A104 FOR TUNNEL SIGN LOCATIONS & A105 FOR MEZZANINE SIGN LOCATIONS

NOTE: REFER TO A701-A705 FOR SIGNAGE DETAILS

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SIGNAGE LOCATION PLAN-WEST OF SHED

SHEET A-108

122

file= SCALE =1/16"=1'-0"

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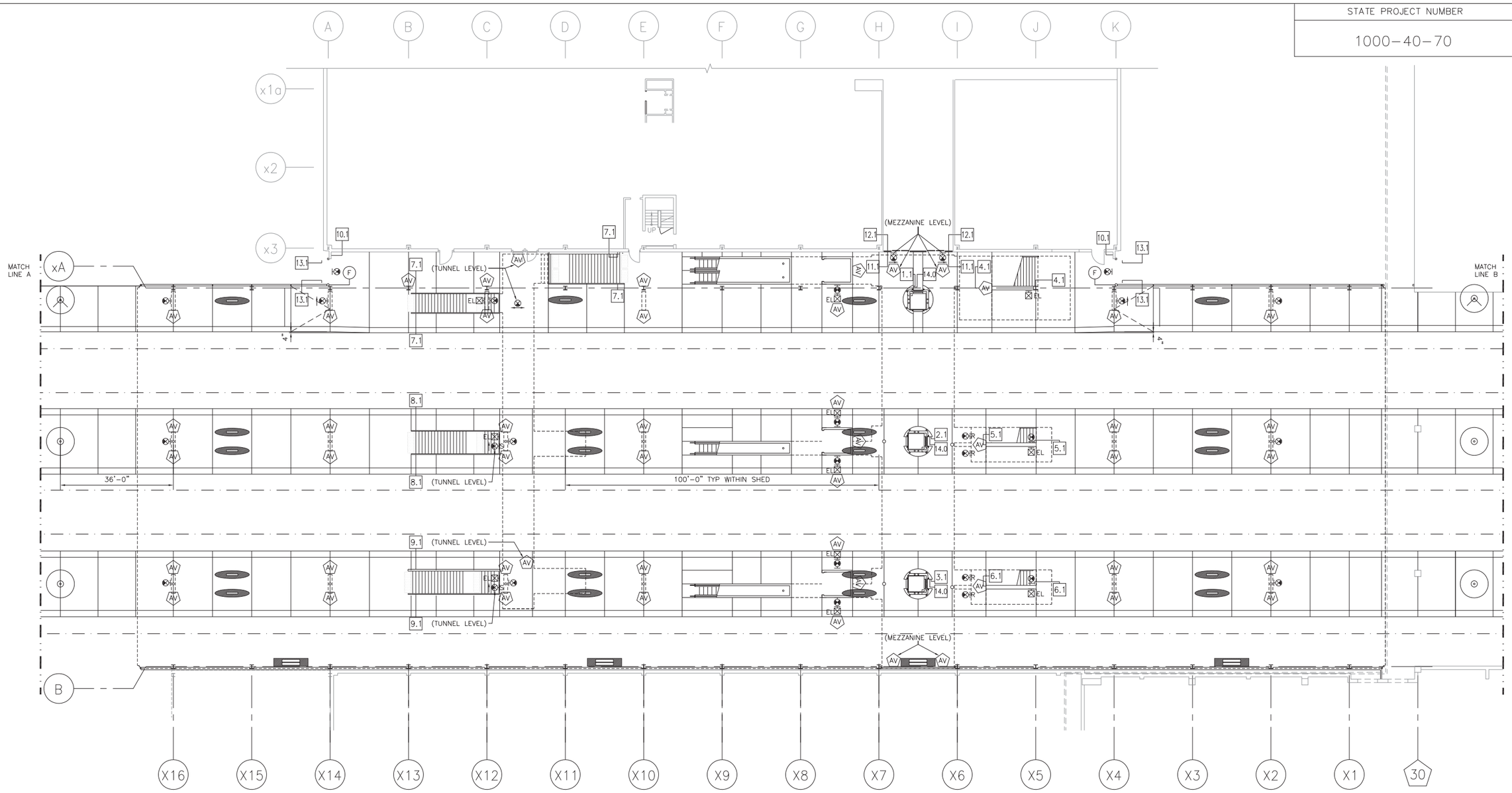

1/A109 SIGNAGE LOCATION PLAN–SHED

SCALE: 1/16"=1'–0"

SYMBOL LEGEND

- FLOOR EMBEDDED SIGN LETTERING
- POST MOUNTED SIGN PANELS
- FUTURE SIGN PANEL LOCATION
- POST MOUNTED SIGNAGE PANEL
- COLUMN MOUNTED SIGNAGE PANEL
- ASYMMETRICAL LIGHTING STANDARD
- SYMMETRICAL LIGHTING STANDARD
- CANOPY EXIT SIGN (SINGLE FACE)
- CANOPY EXIT SIGN (DOUBLE FACE)
- DIRECTIONAL EXIT SIGN
- EXIT SIGN RECESSED IN PANEL
- IR RECESSED EXIT SIGN
- IS SURFACE MOUNTED EXIT SIGN
- AV AUDIO/VISUAL ALARM
- EL CANOPY ELEVATOR SIGN
- F FIRE ALARM PULL STATION
- A/V ALARM SURFACE MOUNTED TO SIGNAGE PANEL
- EL ELEVATOR SIGN RECESSED IN SIGN PANEL
- 7.1 TACTILE SIGN TAG

NOTE: REFER TO A104 FOR TUNNEL SIGN LOCATIONS & A105 FOR MEZZANINE SIGN LOCATIONS

NOTE: REFER TO A701–A705 FOR SIGNAGE DETAILS

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SIGNAGE LOCATION PLAN–SHED

SHEET A–109

file= SCALE = 1/16" = 1'–0"

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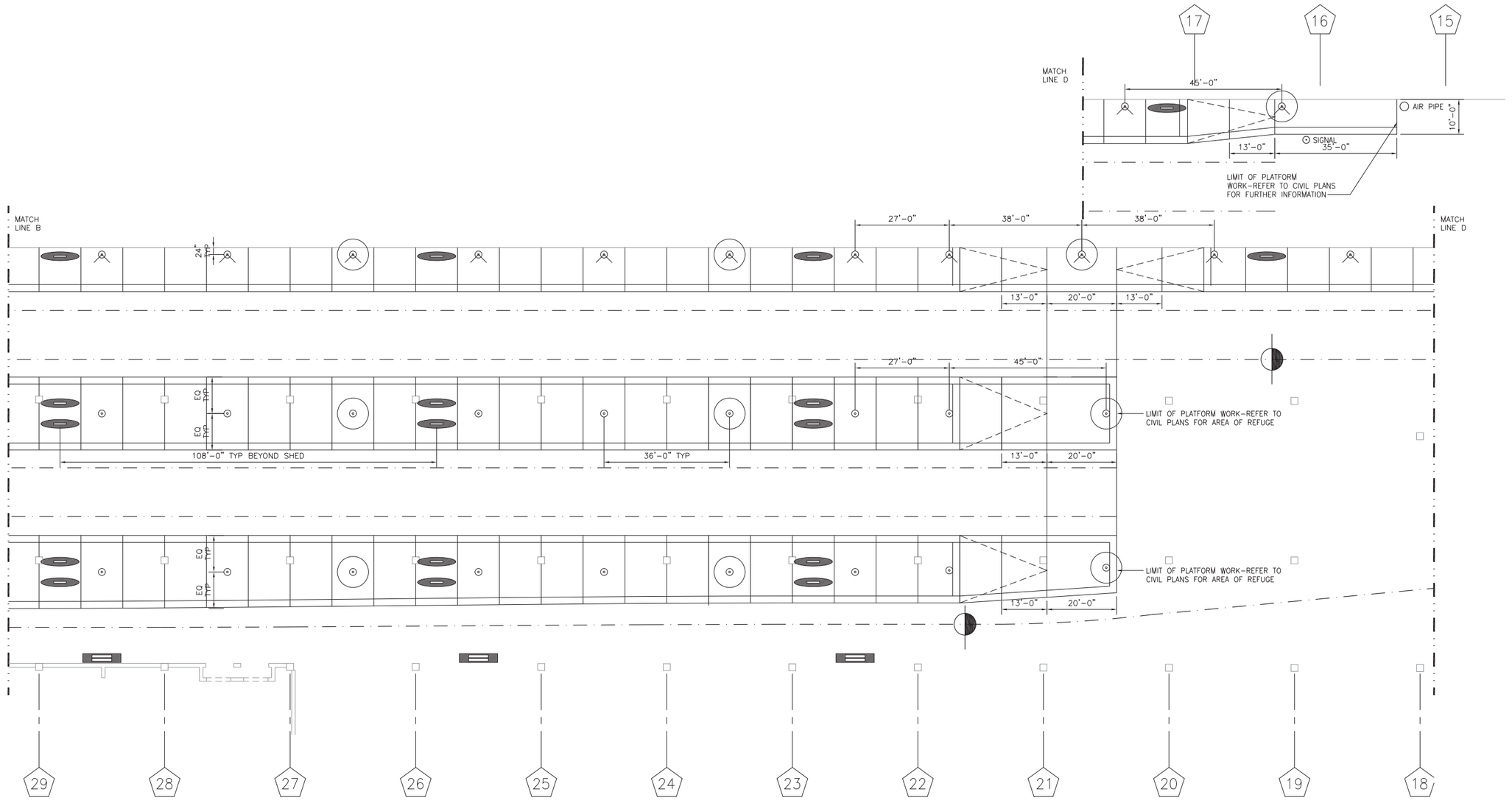

1 / A110 SIGNAGE LOCATION PLAN–EAST OF SHED

SCALE: 1/16"=1'–0"

SYMBOL LEGEND

- FLOOR EMBEDDED SIGN LETTERING
- POST MOUNTED SIGN PANELS
- FUTURE SIGN PANEL LOCATION
- POST MOUNTED SIGNAGE PANEL
- COLUMN MOUNTED SIGNAGE PANEL
- ASYMMETRICAL LIGHTING STANDARD
- SYMMETRICAL LIGHTING STANDARD
- CANOPY EXIT SIGN (SINGLE FACE)
- CANOPY EXIT SIGN (DOUBLE FACE)
- DIRECTIONAL EXIT SIGN
- EXIT SIGN RECESSED IN PANEL
- HR RECESSED EXIT SIGN
- HS SURFACE MOUNTED EXIT SIGN
- AV AUDIO/VISUAL ALARM
- EL CANOPY ELEVATOR SIGN
- F FIRE ALARM PULL STATION
- A/V ALARM SURFACE MOUNTED TO SIGNAGE PANEL
- EL ELEVATOR SIGN RECESSED IN SIGN PANEL
- 7.1 TACTILE SIGN TAG

NOTE: REFER TO A104 FOR TUNNEL SIGN LOCATIONS & A105 FOR MEZZANINE SIGN LOCATIONS

NOTE: REFER TO A701–A705 FOR SIGNAGE DETAILS

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STRUCTURE MIS SHED

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SIGNAGE LOCATION PLAN–EAST OF SHED

SHEET A–110

124

file= SCALE =1/16"=1'–0"

STATE PROJECT NUMBER
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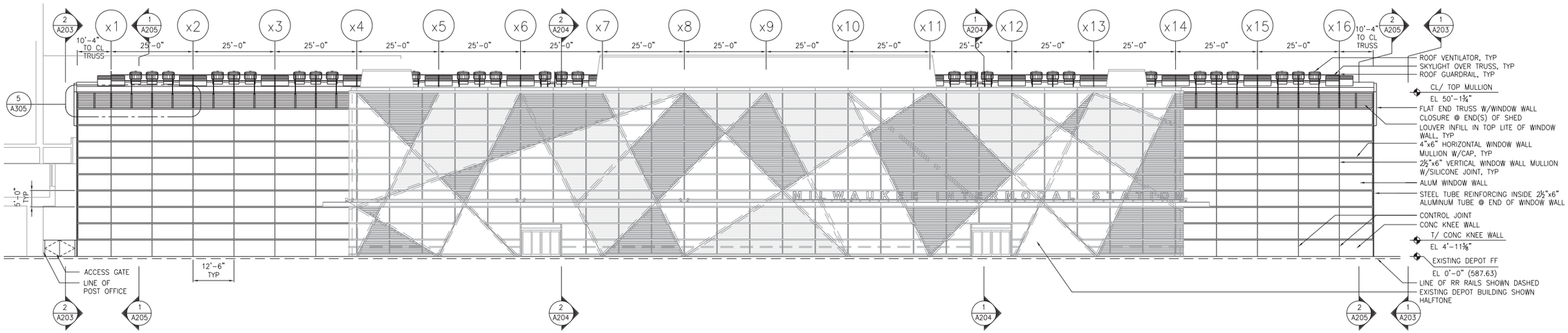
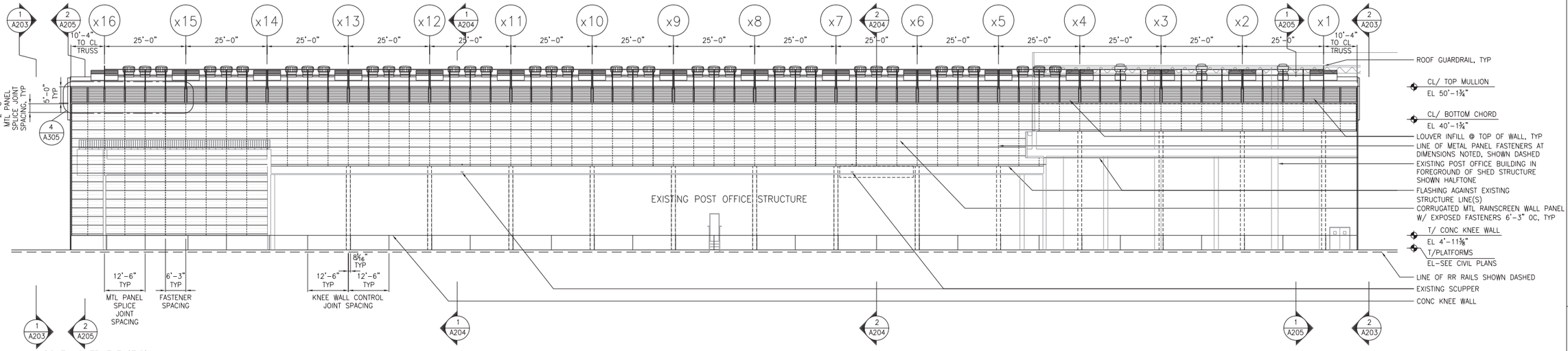


1 A201 NORTH SHED ELEVATION

SCALE: 1/16"=1'-0"



2 A201 SOUTH SHED ELEVATION

SCALE: 1/16"=1'-0"

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STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ELEVATIONS & SECTIONS

SHEET A-201

125

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STATE PROJECT NUMBER

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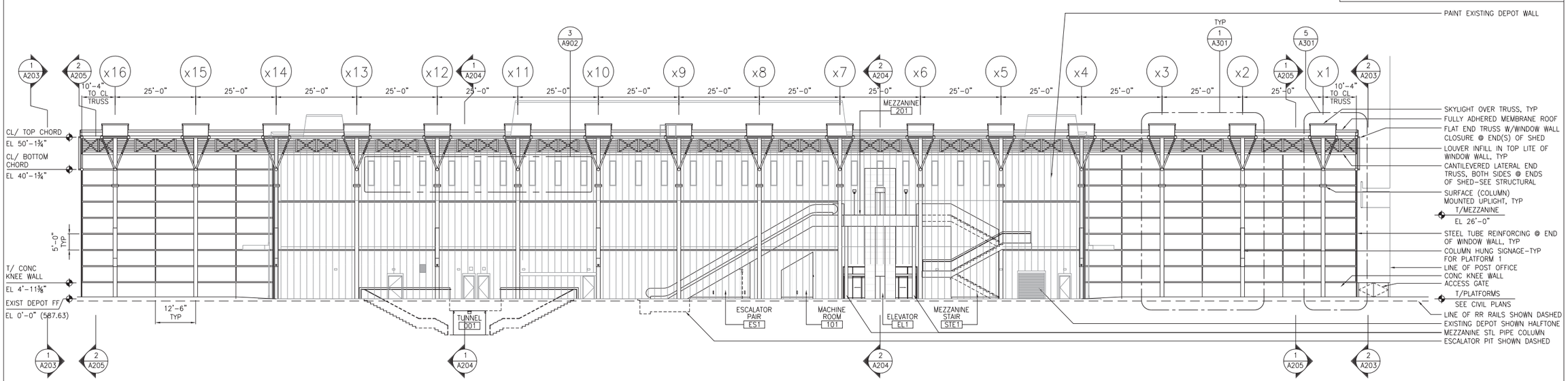
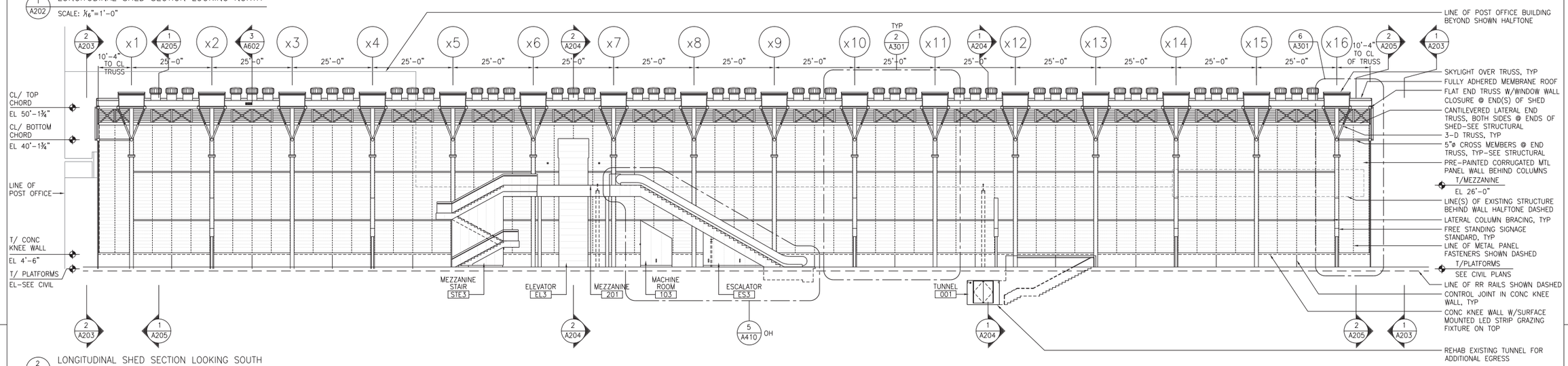


1 A202 LONGITUDINAL SHED SECTION LOOKING NORTH

SCALE: 1/16"=1'-0"



2 A202 LONGITUDINAL SHED SECTION LOOKING SOUTH

SCALE: 1/16"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ELEVATIONS & SECTIONS

SHEET A–202

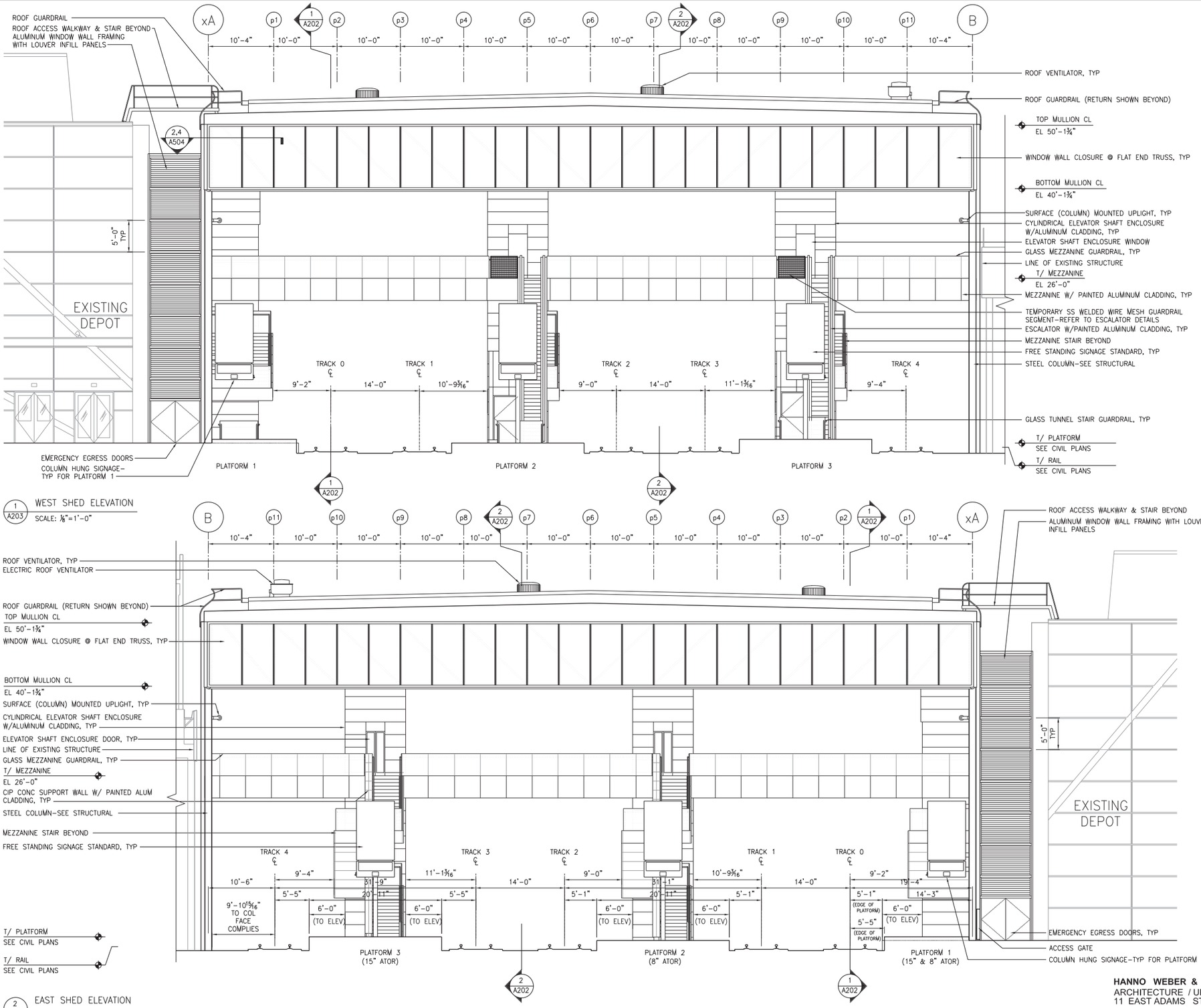
126

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = 1/16"=1'-0"

STATE PROJECT NUMBER

1000-40-70



1 A203 WEST SHED ELEVATION

SCALE: ⅛"=1'-0"

2 A203 EAST SHED ELEVATION

SCALE: ⅛"=1'-0"

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11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ELEVATIONS & SECTIONS

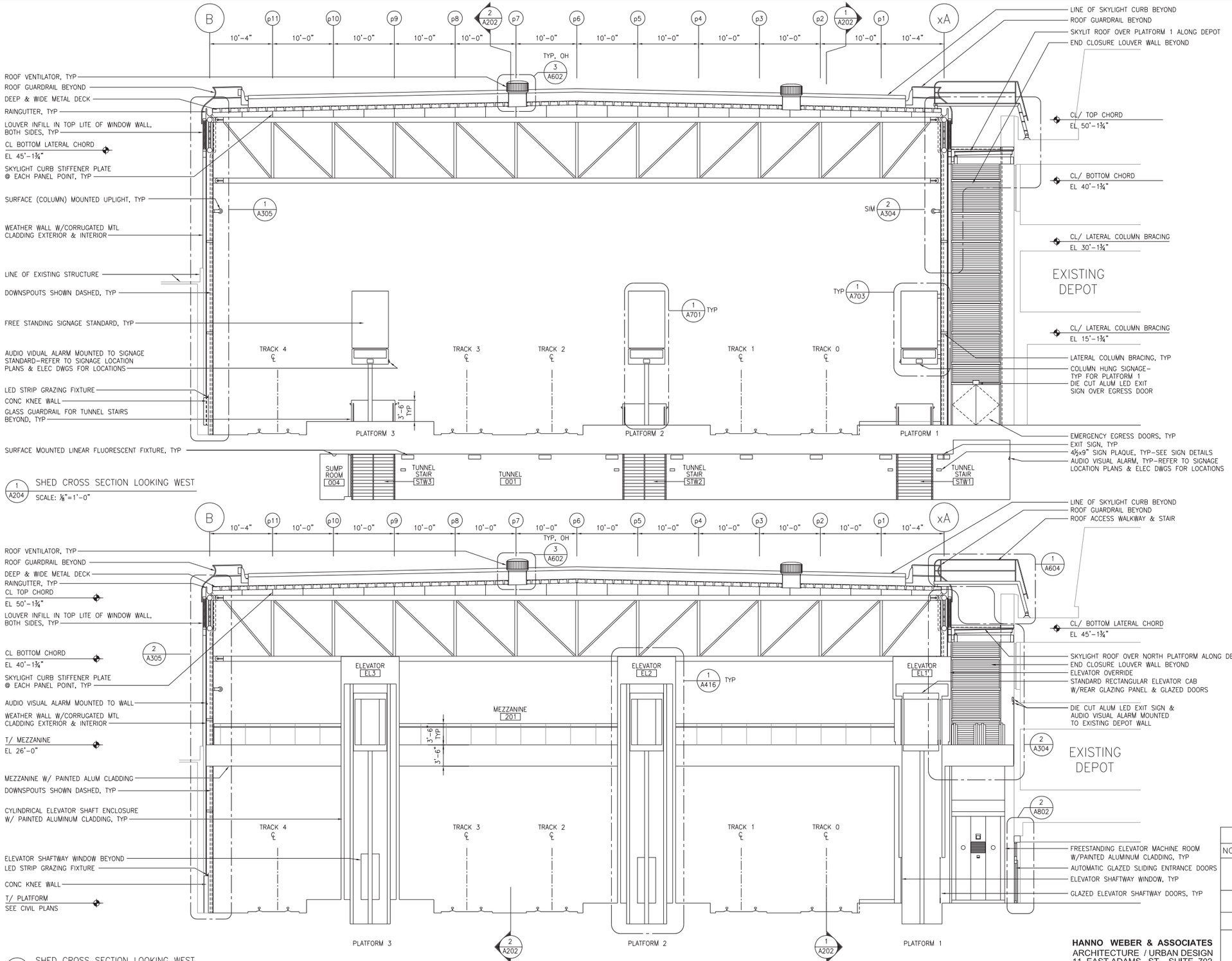
SHEET A-203

127

file= SCALE = ⅛"=1'-0"

STATE PROJECT NUMBER

1000-40-70



1 A204 SHED CROSS SECTION LOOKING WEST

SCALE: ⅛"=1'-0"

2 A204 SHED CROSS SECTION LOOKING WEST

SCALE: ⅛"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ELEVATIONS & SECTIONS

SHEET A-204

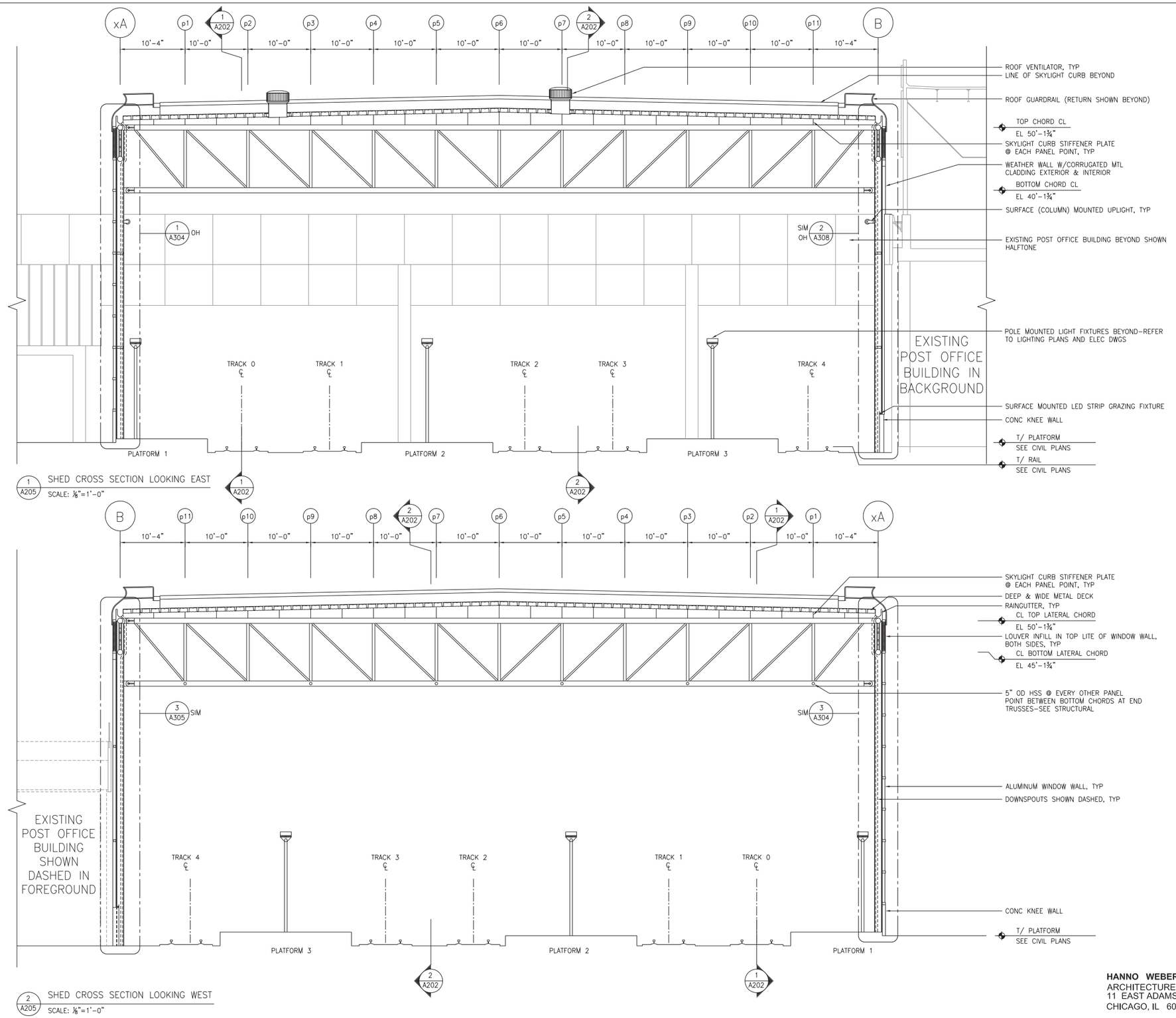
128

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE =⅛"=1'-0"

STATE PROJECT NUMBER

1000-40-70



1 A205 SHED CROSS SECTION LOOKING EAST
SCALE: ⅛"=1'-0"

2 A205 SHED CROSS SECTION LOOKING WEST
SCALE: ⅛"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SHED ELEVATIONS & SECTIONS

SHEET A-205

129

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE =⅛"=1'-0"

STATE PROJECT NUMBER

1000-40-70

X3 X2 X10 X11 X1

ROOF VENTILATOR, TYP

1/A501 TYP

SKYLIGHT OVER TRUSS, TYP

FULLY ADHERED MEMBRANE ROOF

CL/ TOP CHORD OF LATERAL TRUSS EL 50'-1¾"

3-D TRUSS, TYP

LOUVER INFILL BEYOND

CL/ BOT CHORD OF LATERAL TRUSS EL 45'-1¾"

TRAIN SHED WALL CAVITY

SS FASTENER, TYP

SEALANT, TYP

MTL PANEL SPLICE JOINT DIMENSION

7/A301 DETAIL-TYPICAL MTL PANEL HORIZONTAL SPLICE JOINT
SCALE: 3"=1'-0"

3/A513 TYP

SURFACE MOUNTED UPLIGHT, TYP

12"x4" HSS SPANNING BETWEEN COLUMNS

CL/ 12"x4" HSS EL 30'-1¾"

LINE OF EXISTING POST OFFICE WALL BEYOND SHOWN HALF TONE DASHED

2½"x4½" VERTICAL ALUMINUM MULLION, TYP

SURFACE MOUNTED ELEC CONDUIT, PAINTED, TYP

W14 COLUMN, PAINTED - SEE STRUCTURAL PLANS

COLUMN HUNG SIGNAGE, TYP FOR PLATFORM 1

12"x4" HSS SPANNING BETWEEN COLUMNS

CL/ 12"x4" HSS EL 15'-1¾"

EXPOSED FASTENER, TYP

6"x4" HORIZONTAL ALUMINUM MULLION

VERTICAL SPLICE JOINTS, TYP

HORIZONTAL SPLICE JOINT, TYP

SURFACE MOUNTED ELEC CONDUIT(S), PAINTED, TYP

3/A301 3/A301 4/A301 4/A301

T/ CONC WALL EL 4'-11⅛" T/ CONC WALL EL 4'-6"

LINE OF 7¾"x¾"x3" PTD STL ANGLE VALENCE

CONTROL JOINT IN CONC WALL, TYP

CONC WALL, PAINTED

T/ PLATFORM SEE CIVIL PLANS

49'-6¾" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 4'-6¾" 5'-0" 2'-8" TYP 4'-6¾"

5/A301 ELEVATION-NORTH WALL END BAY
SCALE: ¼"=1'-0"

SKYLIGHT OVER TRUSS, TYP

FULLY ADHERED MEMBRANE ROOF

2/A501 OH

CL/ TOP CHORD OF LATERAL TRUSS EL 50'-1¾"

FLAT END TRUSS W/ WINDOW WALL CLOSURE @ END(S) OF SHED

LOUVER INFILL BEYOND

CL/ BOT CHORD OF LATERAL TRUSS EL 45'-1¾"

3-D TRUSS, TYP

W14 COLUMN, PAINTED - SEE STRUCTURAL PLANS

6"x4" HORIZONTAL ALUMINUM MULLION

1/A503 OH

T/ CONC WALL EL 4'-11⅛"

CONC WALL, PAINTED

ACCESS GATE

T/ PLATFORM SEE CIVIL PLANS

X16

SKYLIGHT OVER TRUSS, TYP

FULLY ADHERED MEMBRANE ROOF

CL/ TOP CHORD OF LATERAL TRUSS EL 50'-1¾"

LOUVER INFILL BEYOND

FLAT END TRUSS W/ WINDOW WALL CLOSURE @ END(S) OF SHED

CL/ BOT CHORD OF LATERAL TRUSS EL 45'-1¾"

3-D TRUSS, TYP

EXPOSED FASTENER, TYP

5"ø CROSS MEMBERS @ END TRUSS, TYP-SEE STRUCTURAL

T/ CONC WALL EL 4'-6"

W14 COLUMN, PAINTED - SEE STRUCTURAL PLANS

T/ PLATFORM SEE CIVIL PLANS

6/A301 ELEVATION-SOUTH WALL END BAY
SCALE: ¼"=1'-0"

1/A301 ELEVATION-TYP NORTH WALL BAY
SCALE: ¼"=1'-0"

2½"x4½" VERTICAL ALUMINUM MULLION

6"x4" HORIZONTAL ALUMINUM MULLION BELOW

⅜" GLAZING

4" 12 GA GALV MTL STUDS, 12" OC, TYP

¾" PRE-PAINTED CORRUGATED MTL PANEL, TYP

LINE OF CONC WALL BELOW

3½" OD ALUMINUM DOWNSPOUTS

W14 COLUMN, PAINTED - SEE STRUCTURAL PLANS

1½" OD CONDUITS

CONTROL JOINT IN CONC FLOOR SLAB

COLUMN HUNG SIGNANGE ABOVE SHOWN DASHED

W14 COLUMN, PAINTED - SEE STRUCTURAL PLANS

12'-6" TYP XA SIM 3/A503 3/A503 3/A503 SIM 1/A301

3/A301 PLAN-TYP NORTH WALL BAY
SCALE: ¼"=1'-0"

2/A301 ELEVATION-TYP SOUTH WALL BAY
SCALE: ¼"=1'-0"

25'-0" TYP

2/A301

1'-4" 5'-10" (FASTENER SPACING) 6'-0" (FASTENER SPACING) 6'-0" (FASTENER SPACING) 5'-10" (FASTENER SPACING) 1'-4"

6'-1⅛" (PANEL DIM) 6'-4" (PANEL DIM) 6'-4" (PANEL DIM) 7'-6¾" (PANEL DIM)

B

4/A301 PLAN-TYP SOUTH WALL BAY
SCALE: ¼"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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ENLARGED PLANS & PARTIAL ELEVATIONS

SHEET A-301

130

HANNO WEBER & ASSOCIATES
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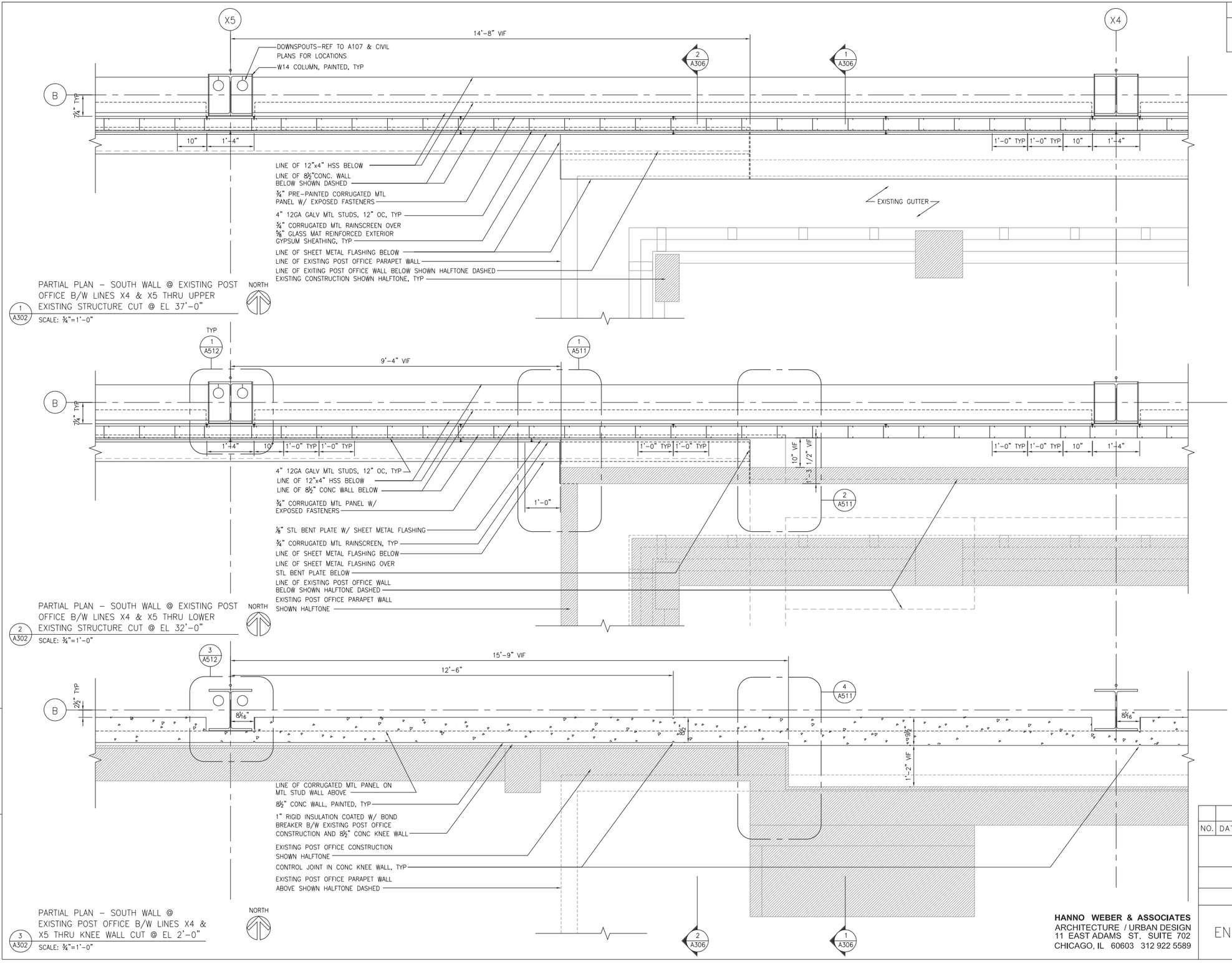
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE =¼"=1'-0"

STATE PROJECT NUMBER

1000-40-70



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

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ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

ENLARGED PLANS

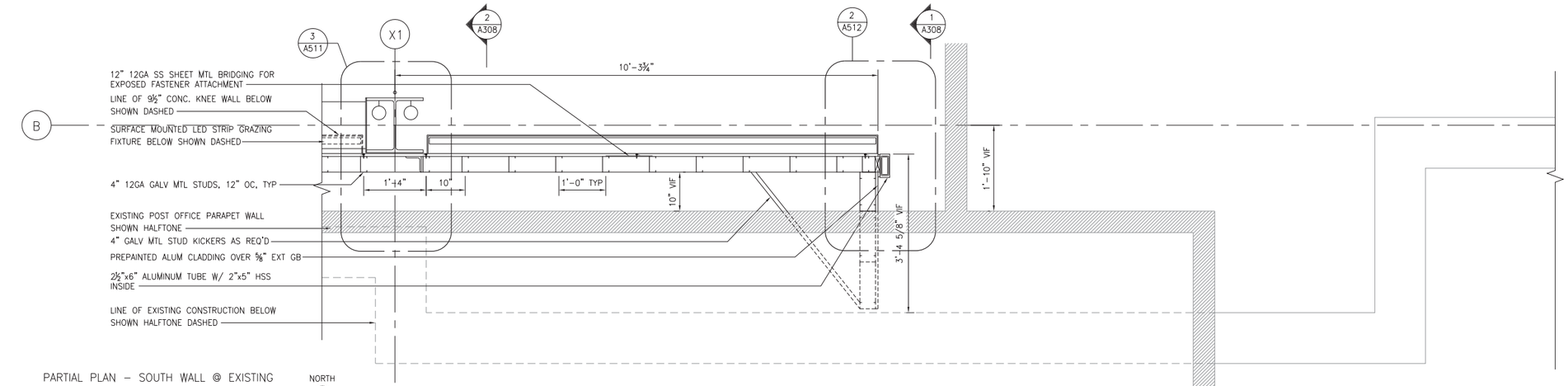
SHEET A-302

131

file= SCALE =¾"=1'-0"

STATE PROJECT NUMBER

1000-40-70

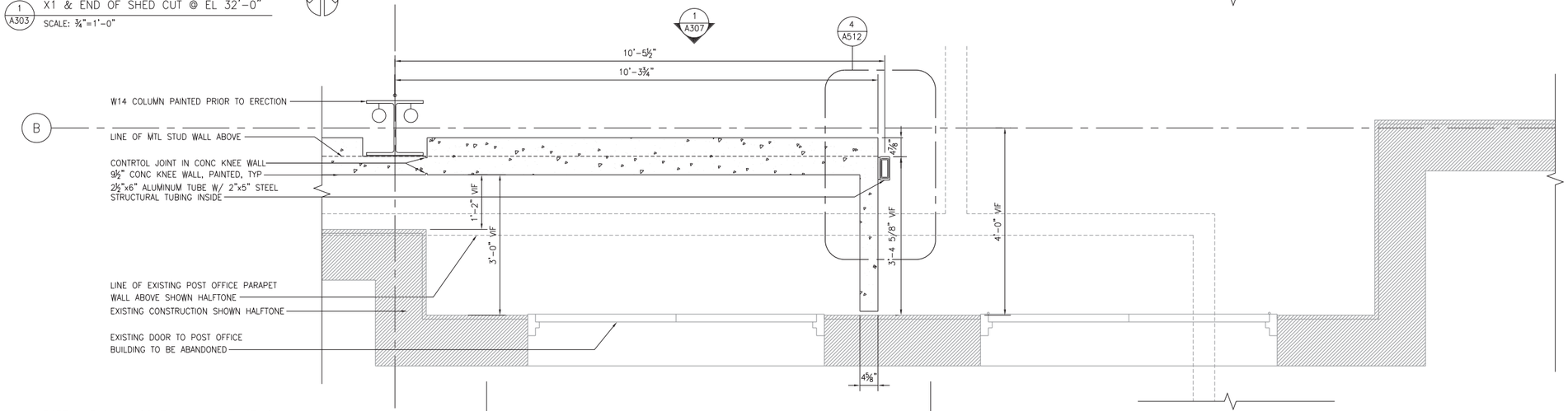


PARTIAL PLAN – SOUTH WALL @ EXISTING POST OFFICE THRU STUD WALL B/W LINE X1 & END OF SHED CUT @ EL 32'-0"

1 A303

SCALE: ¾"=1'-0"

NORTH

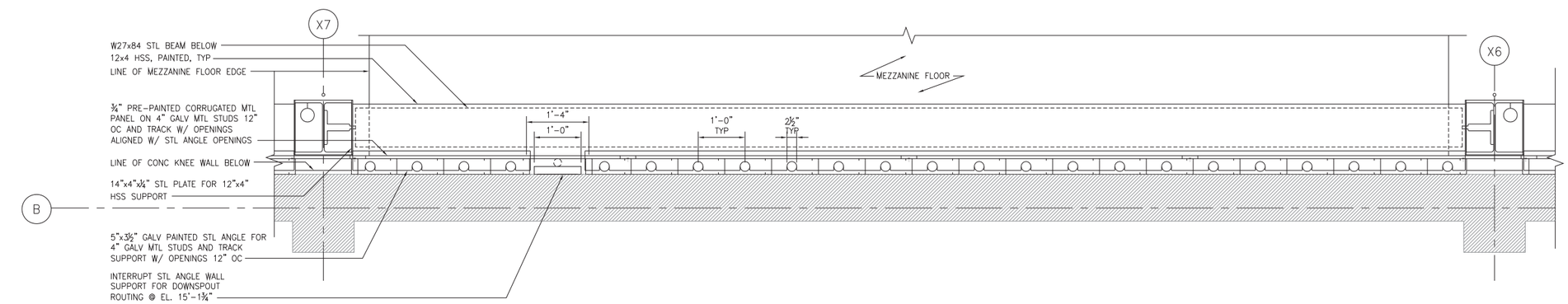


PARTIAL PLAN – SOUTH WALL @ EXISTING POST OFFICE THRU KNEE WALL B/W LINE X1 & END OF SHED CUT @ EL 2'-0"

2 A303

SCALE: ¾"=1'-0"

NORTH



PARTIAL PLAN – SOUTH WALL @ EXISTING POST OFFICE B/W LINES X6 & X7 CUT @ EL 15'-1¾" & EL 30'-1 ¾"

3 A303

SCALE: ¾"=1'-0"

NORTH

08

08

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

ENLARGED PLANS

SHEET A-303

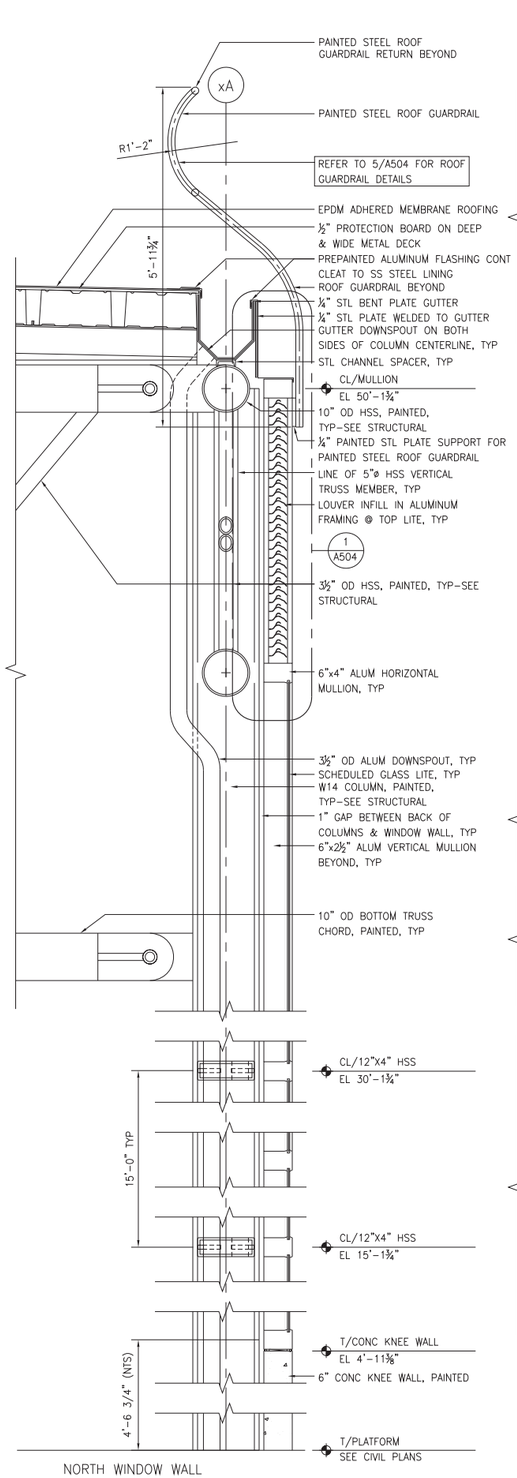
132

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = ¾" = 1'-0"

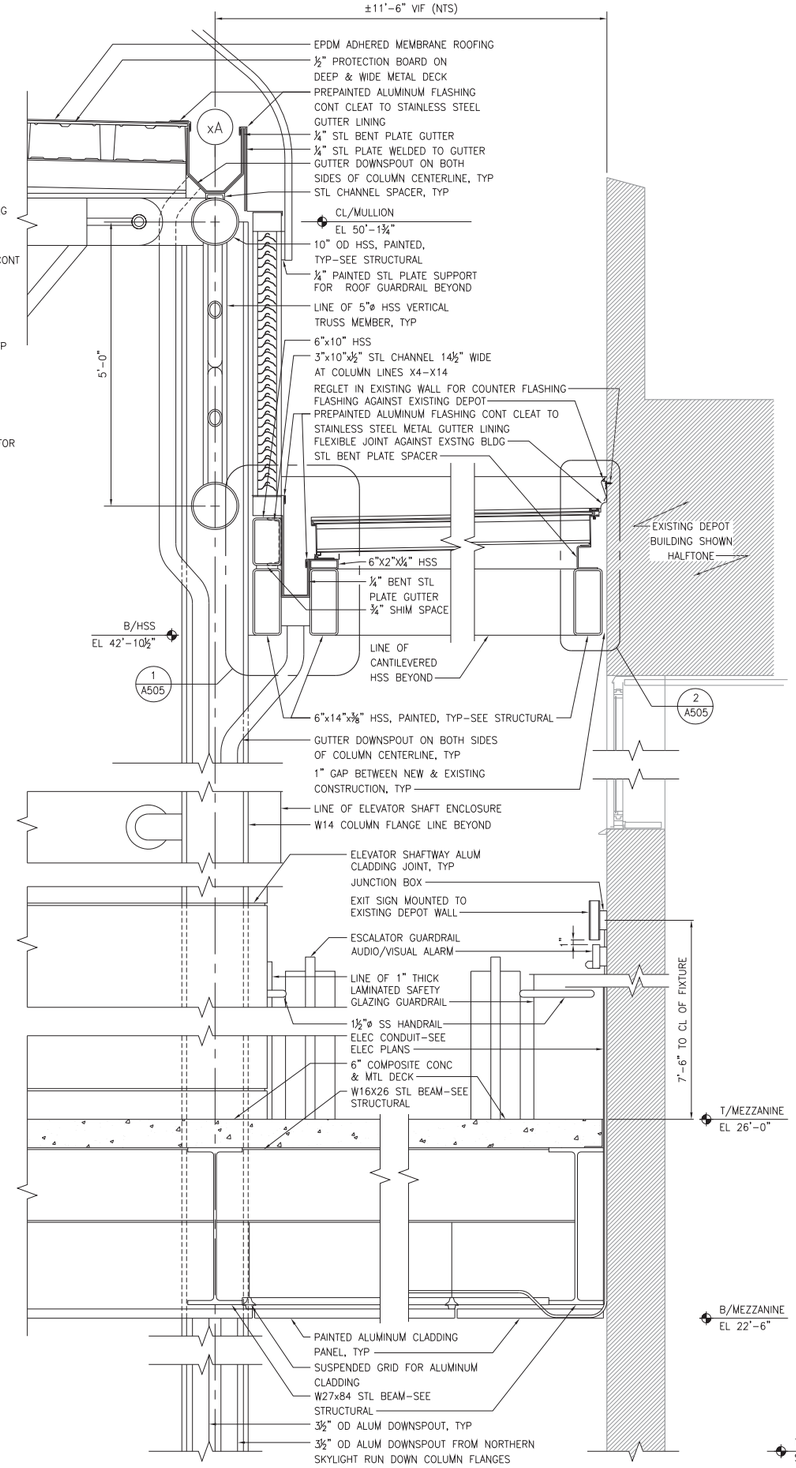
STATE PROJECT NUMBER

1000-40-70



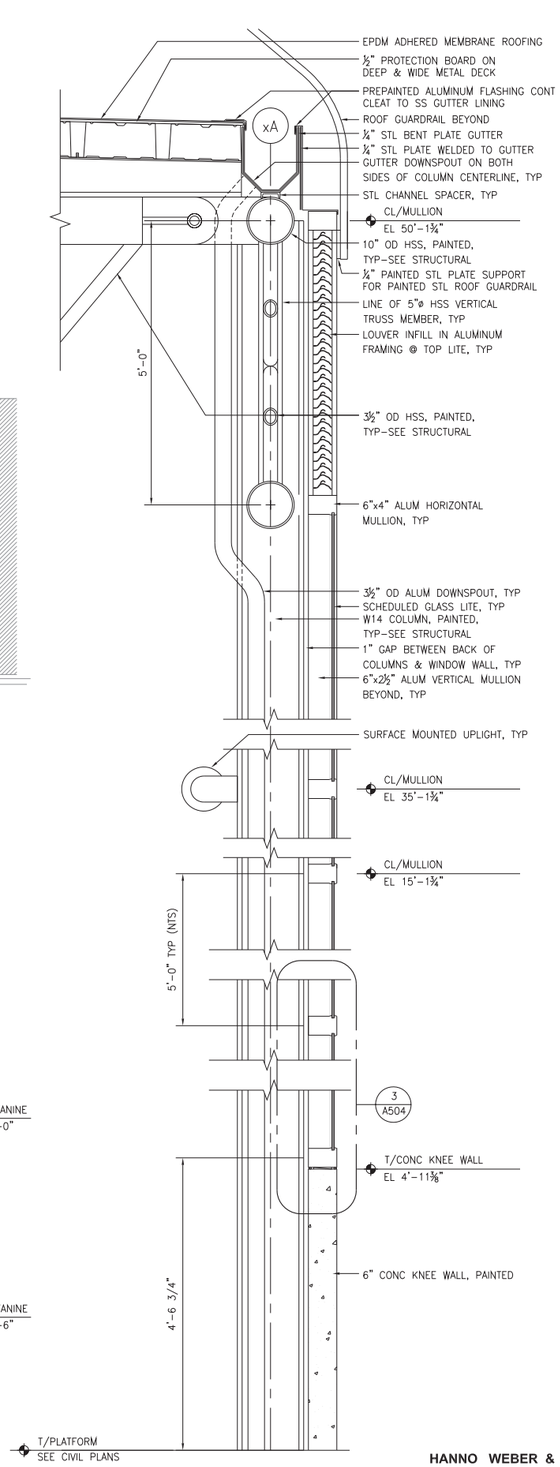
1 A304 NORTH WINDOW WALL B/W LINES X15 & X16

SCALE: ¾"=1'-0"



2 A304 NORTH SIDE OF SHED @ SKYLIGHT GASKET W/EXISTING DEPOT

SCALE: ¾"=1'-0"



3 A304 NORTH WINDOW WALL - EAST END BAY

SCALE: ¾"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

WALL SECTIONS

SHEET A-304

133

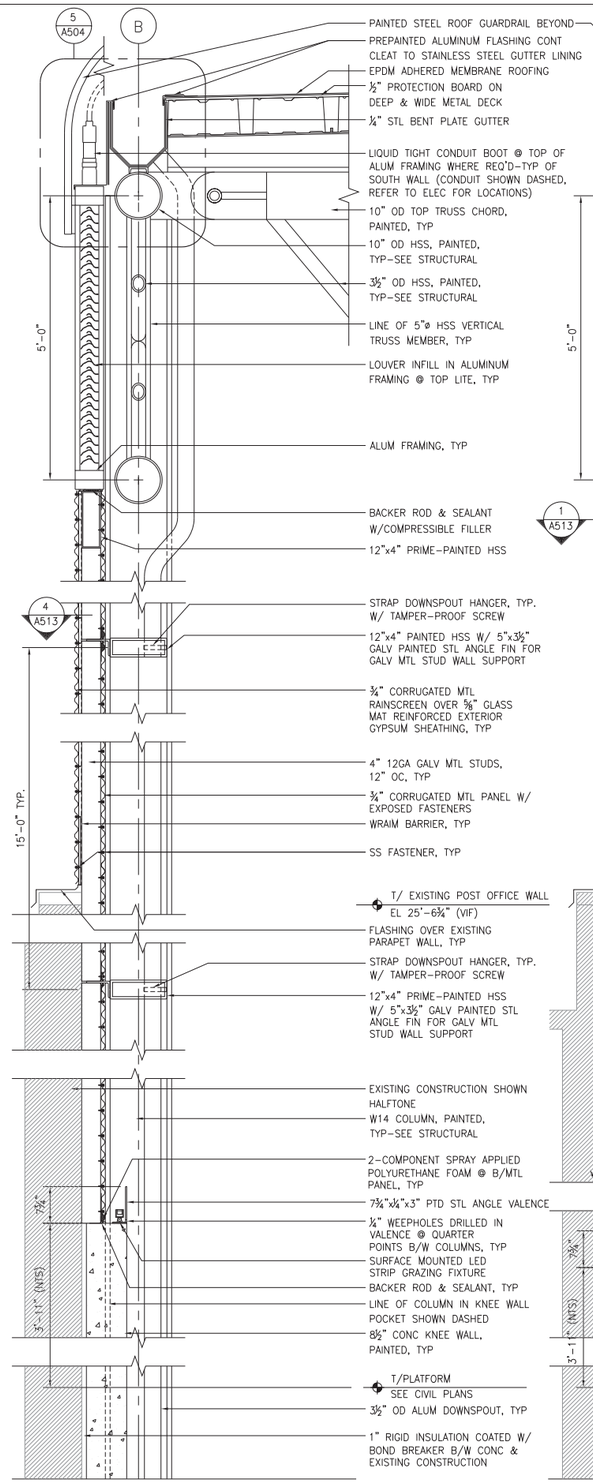
HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file=

SCALE = ¾"=1'-0"

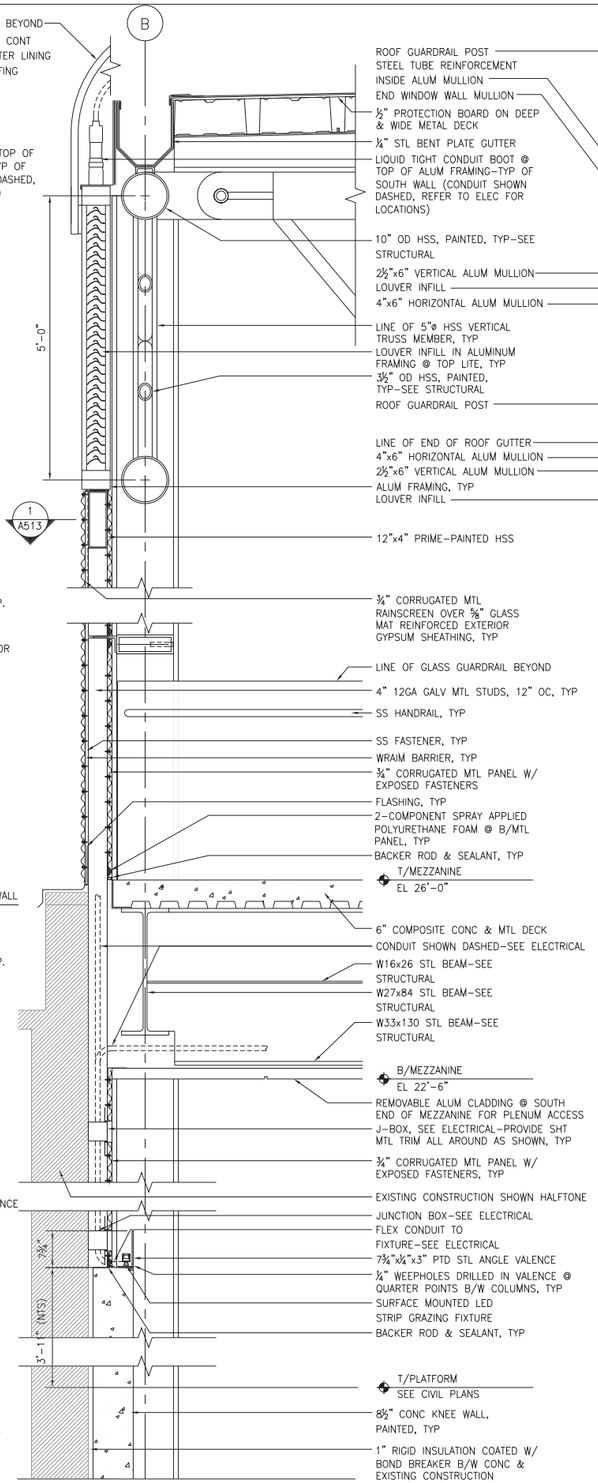
STATE PROJECT NUMBER

1000-40-70



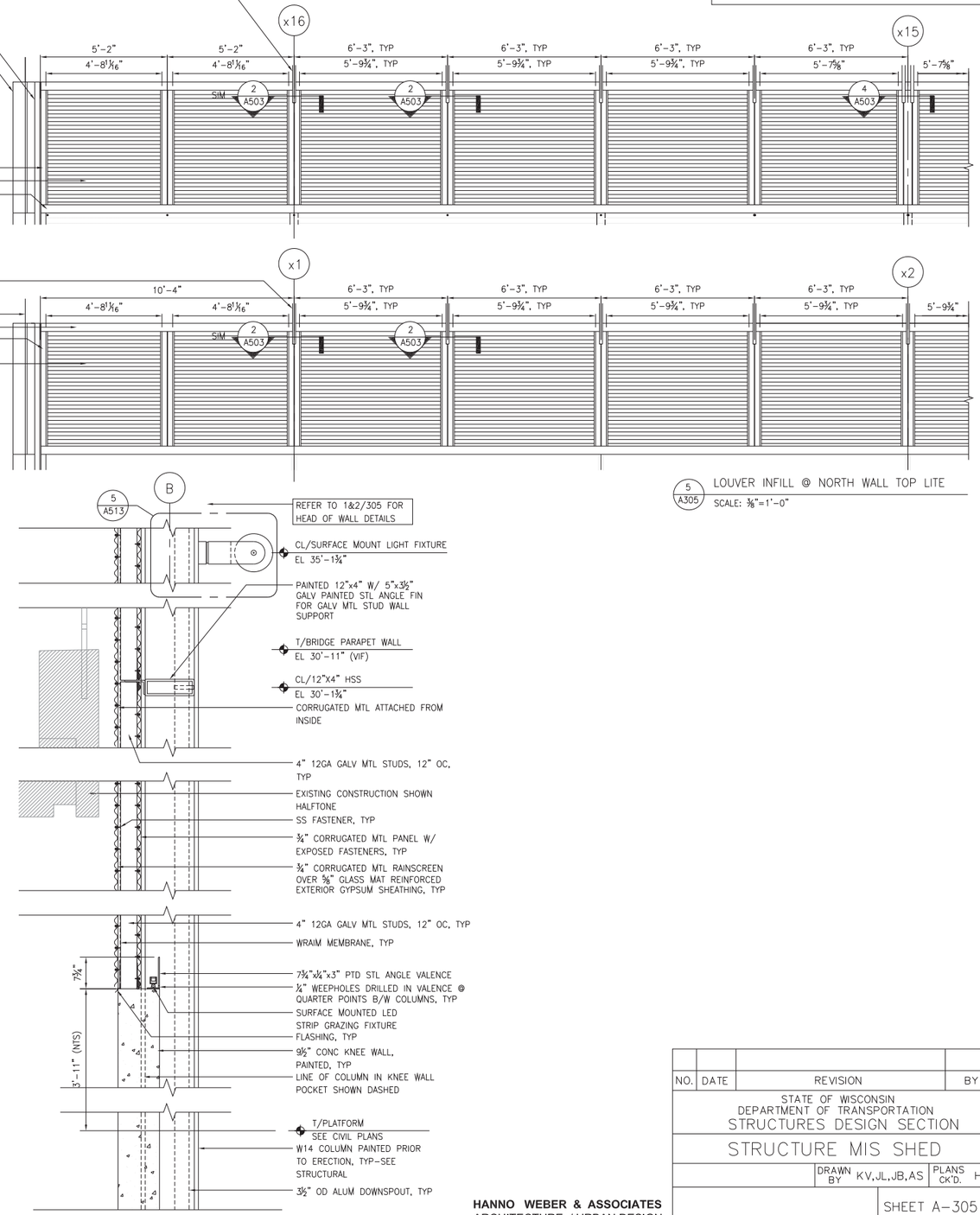
1 A305 SOUTH WALL @ POST OFFICE

SCALE: ¾"=1'-0"



2 A305 SOUTH WALL @ MEZZANINE

SCALE: ¾"=1'-0"



5 A305 LOUVER INFILL @ NORTH WALL TOP LITE

SCALE: ⅜"=1'-0"

3 A305 SOUTH WALL @ LOADING DOCK (WEST END)

SCALE: ¾"=1'-0"

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CHICAGO, IL 60603 312 922 5589

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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WALL SECTIONS

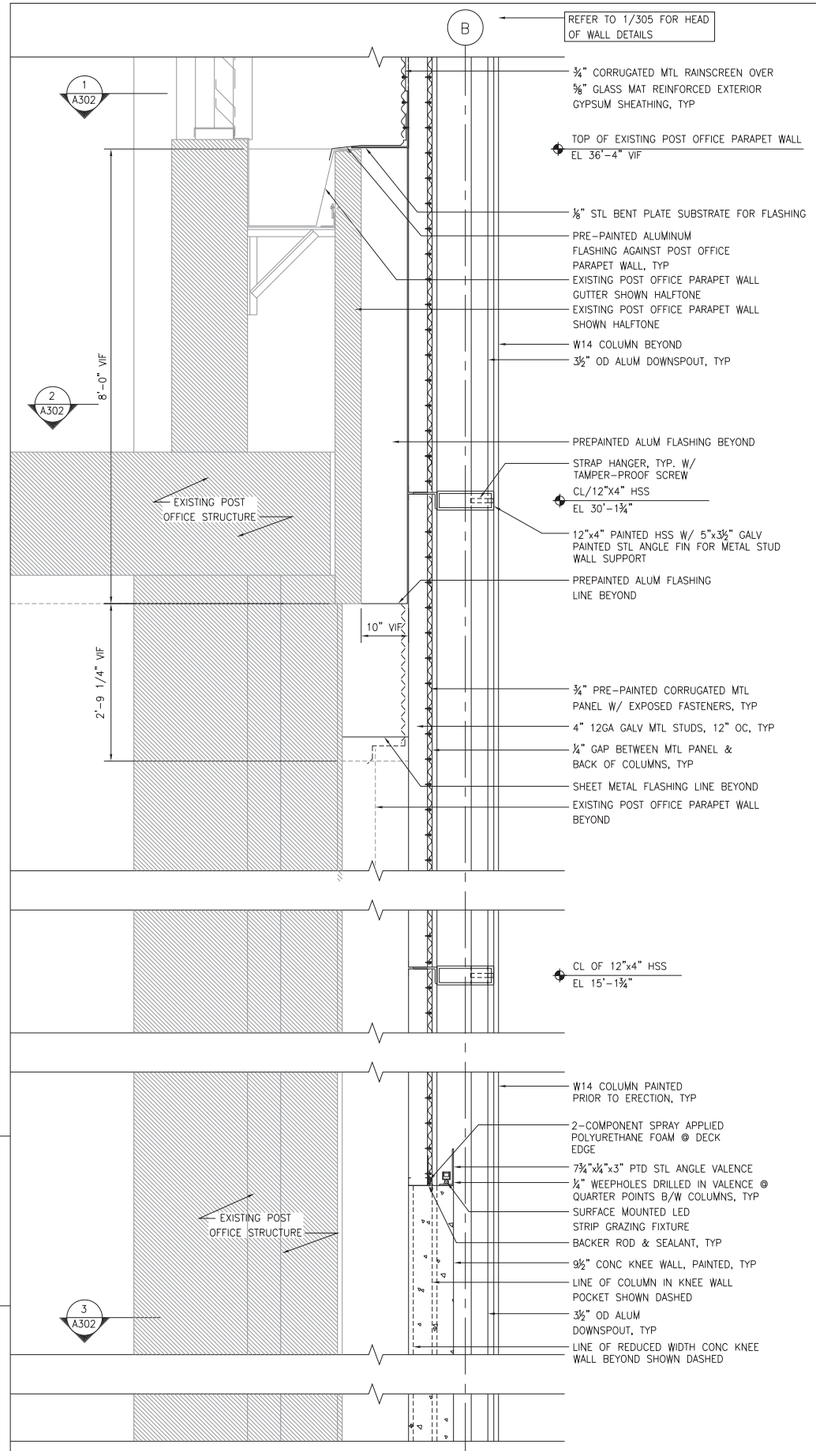
SHEET A-305

134

08

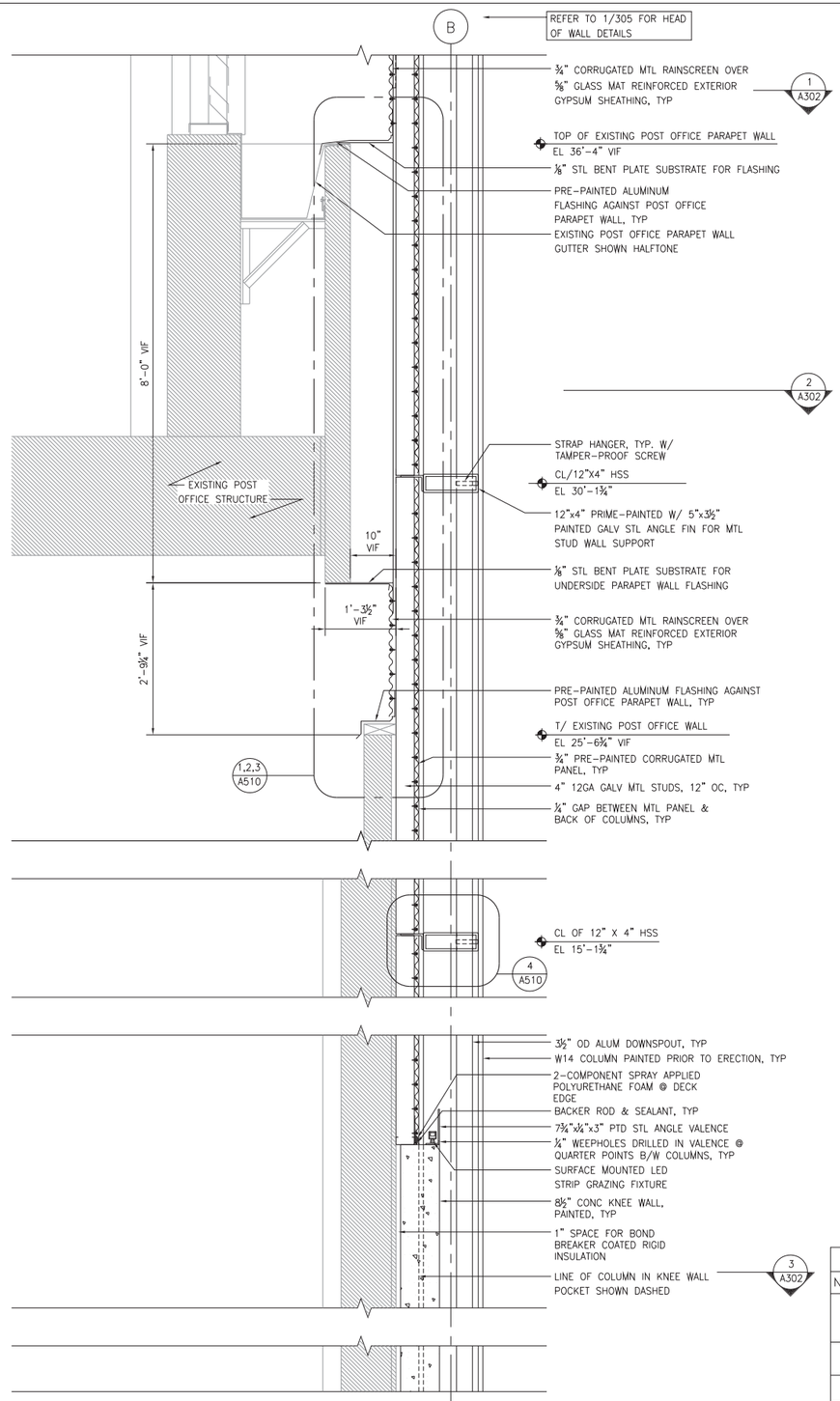
08

file= SCALE = ¾"= 1'-0"



1 A306 SOUTH WALL @ EXISTING POST OFFICE B/W LINES X4 & X5

SCALE: ¾"=1'-0"



2 A306 SOUTH WALL @ EXISTING POST OFFICE B/W LINES X4 & X5

SCALE: ¾"=1'-0"

STATE PROJECT NUMBER

1000-40-70

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

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WALL SECTIONS

SHEET A-306

135

HANNO WEBER & ASSOCIATES
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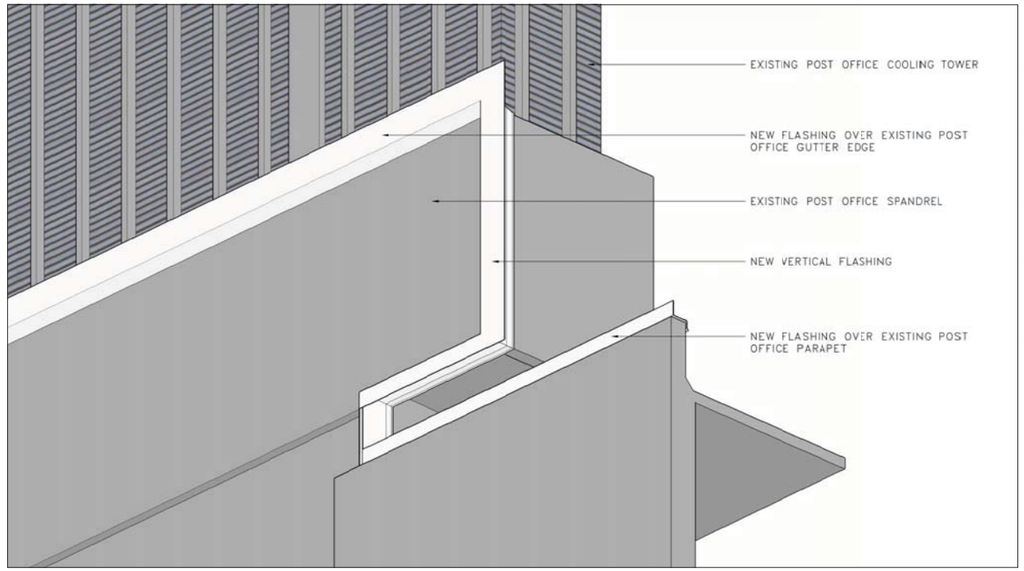
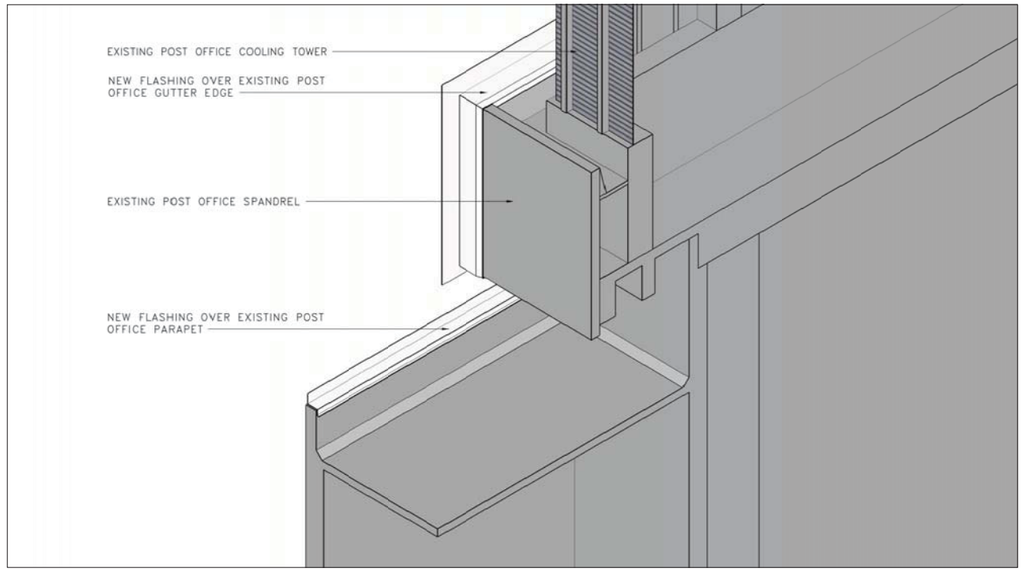
file= SCALE = ¾"=1'-0"

STATE PROJECT NUMBER

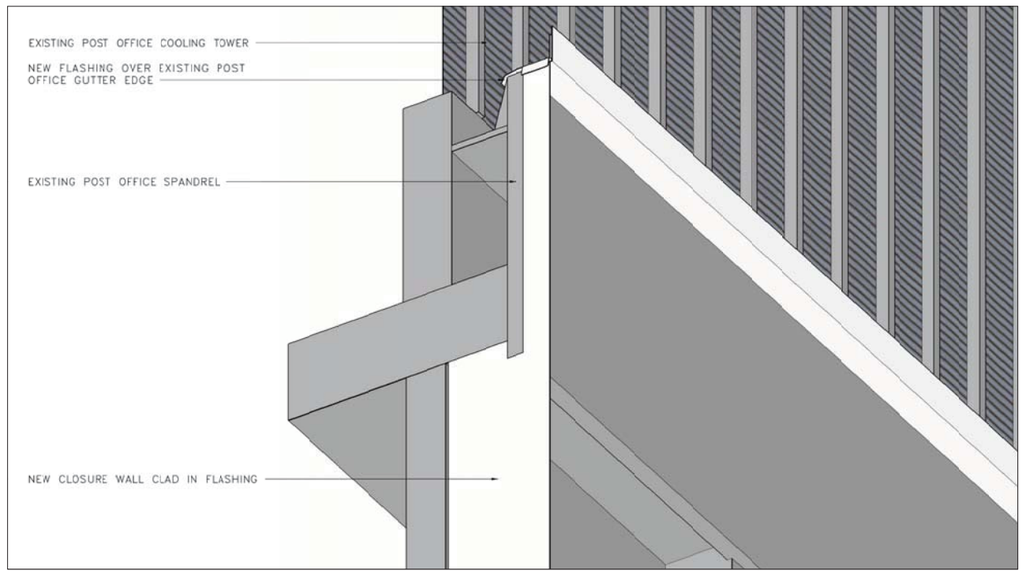
1000–40–70



1 A306A NEW FLASHING INTERFACE @ WEST END POST OFFICE COOLING TOWER
SCALE: N.T.S.



2 A306A NEW FLASHING INTERFACE @ WEST END POST OFFICE COOLING TOWER
SCALE: N.T.S.



3 A306A NEW FLASHING INTERFACE @ EAST END POST OFFICE COOLING TOWER
SCALE: N.T.S.

08

08

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POST OFFICE INTERFACE DIAGRAMS

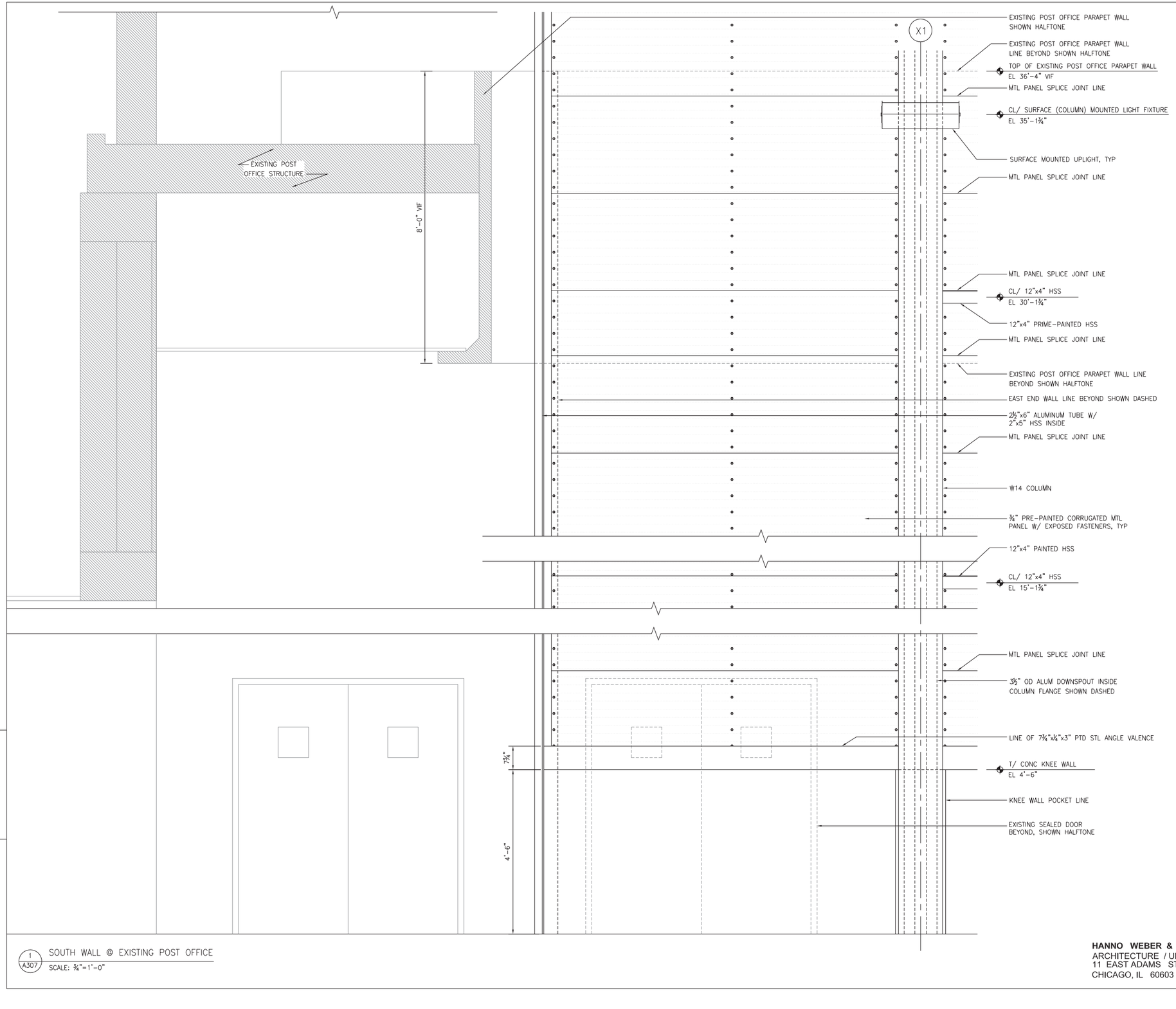
SHEET A–306A

136

file=
SCALE =N.T.S.

STATE PROJECT NUMBER

1000-40-70



1 / A307 SOUTH WALL @ EXISTING POST OFFICE

SCALE: ¾"=1'-0"

08

08

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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WALL SECTIONS

SHEET A-307

137

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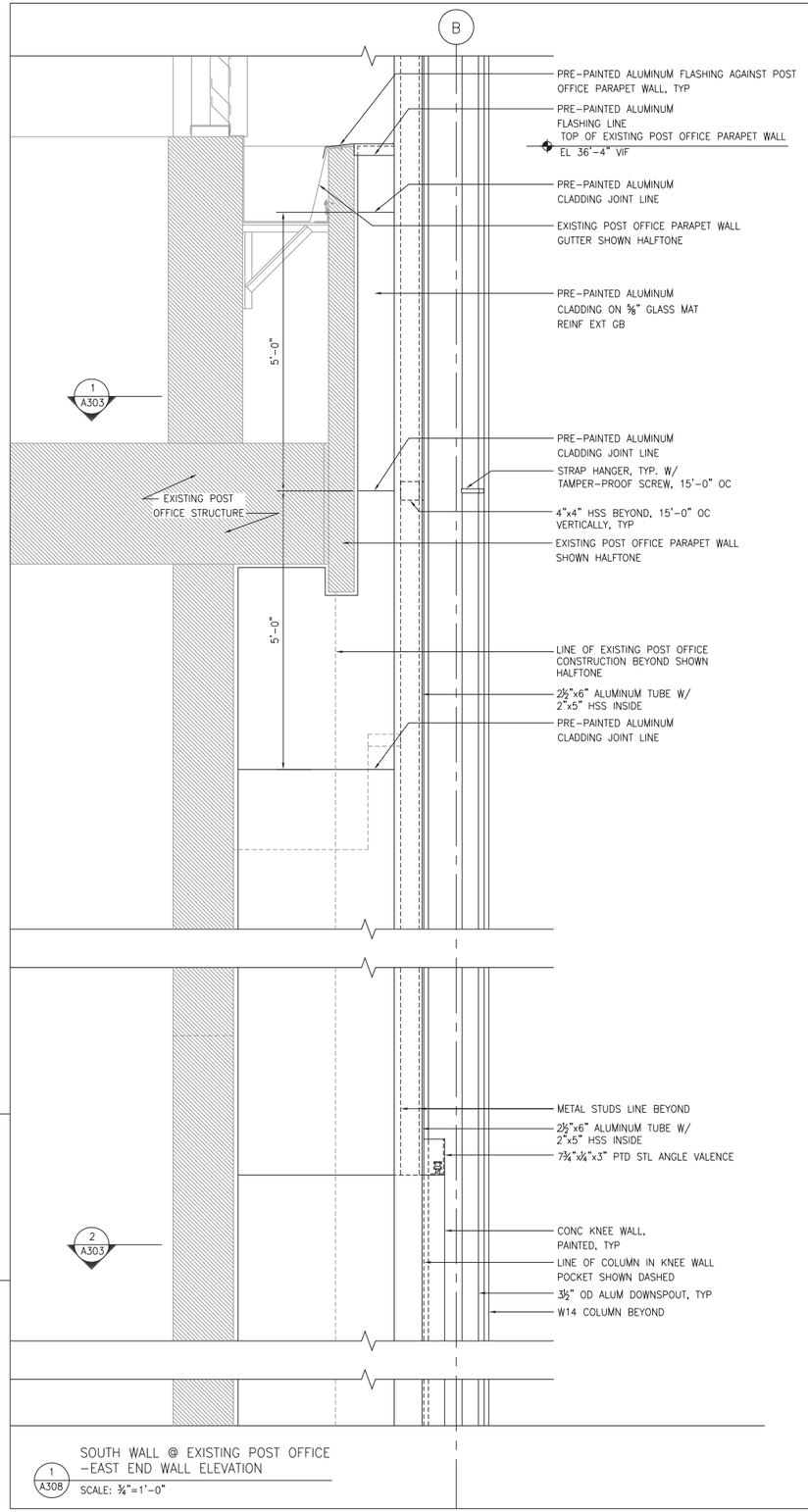
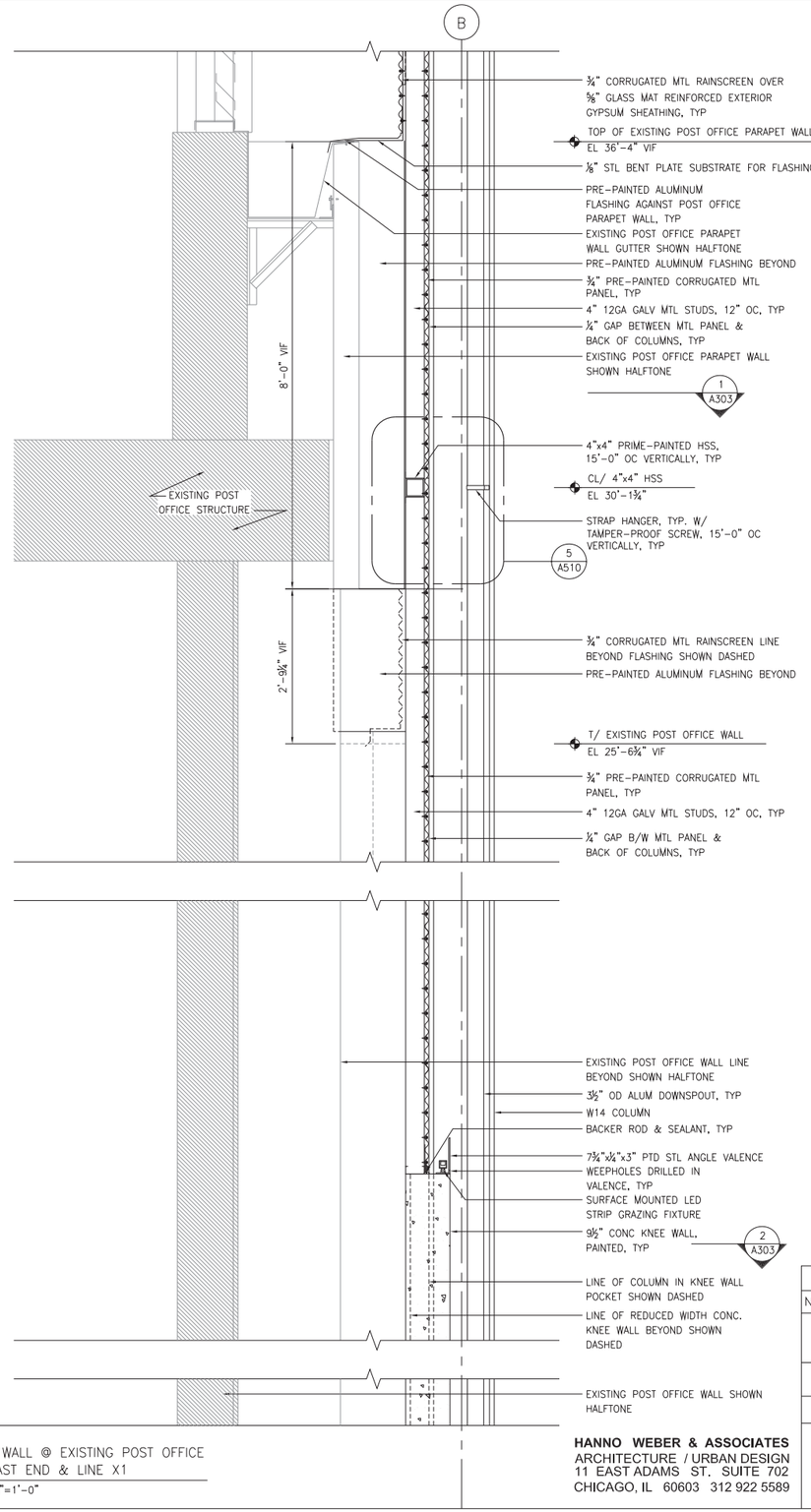
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = ¾"=1'-0"



1 A308 SOUTH WALL @ EXISTING POST OFFICE -EAST END WALL ELEVATION

SCALE: ¾"=1'-0"



2 A308 SOUTH WALL @ EXISTING POST OFFICE B/W EAST END & LINE X1

SCALE: ¾"=1'-0"

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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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WALL SECTIONS

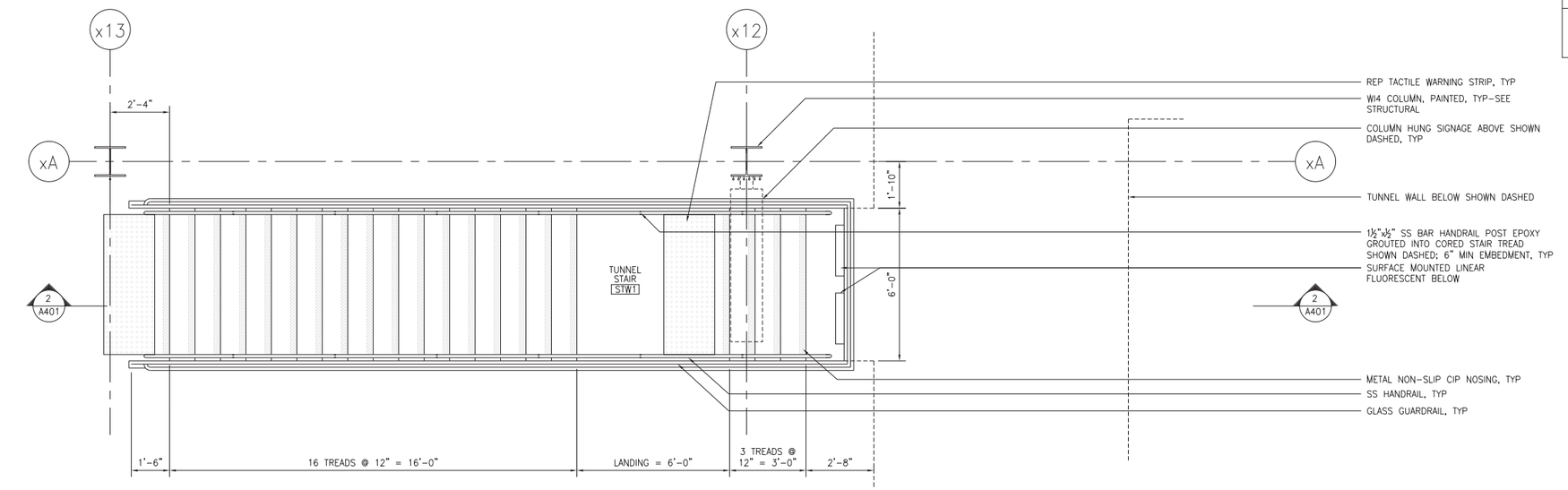
SHEET A-308

138

file= SCALE = ¾"=1'-0"

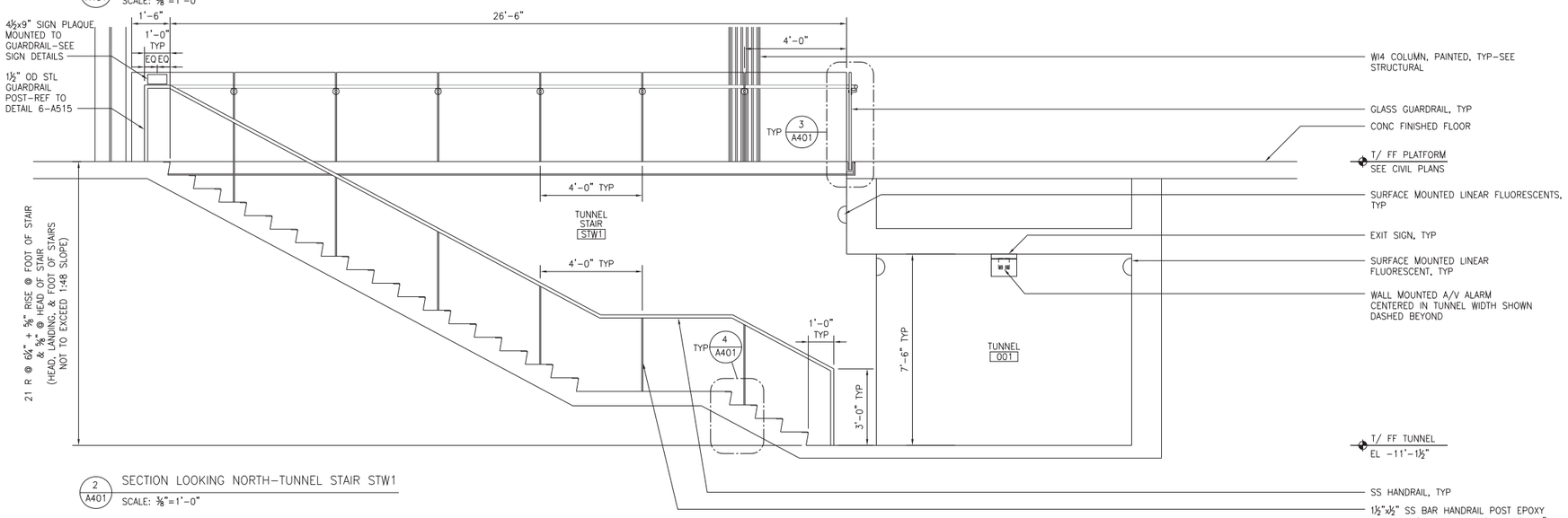
STATE PROJECT NUMBER

1000-40-70



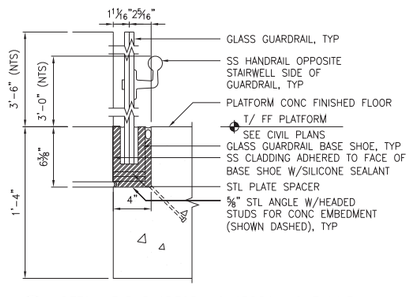
1 A401 PLAN-TUNNEL STAIR STW1

SCALE: ⅜"=1'-0"



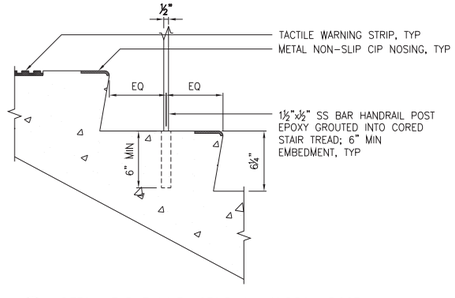
2 A401 SECTION LOOKING NORTH-TUNNEL STAIR STW1

SCALE: ⅜"=1'-0"



3 A401 DETAIL-TYP PLARFORM GUARDRAIL @ TUNNEL

SCALE: 1½"=1'-0"



4 A401 DETAIL-TYP TUNNEL STAIR & HANDRAIL POST

SCALE: 1½"=1'-0"

NO.	DATE	REVISION	BY

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TUNNEL STAIRS

SHEET A-401

139

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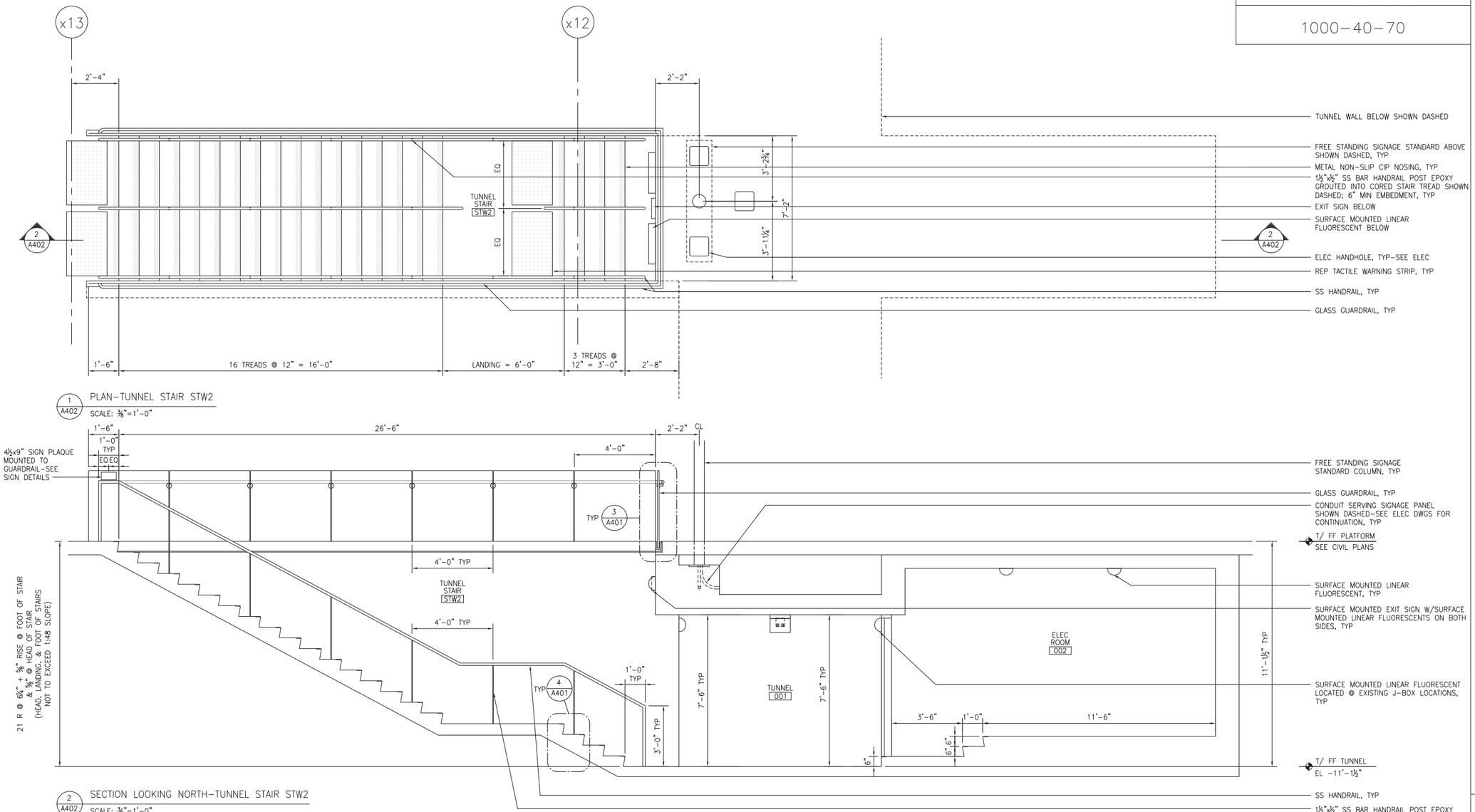
CHICAGO, IL 60603 312 922 5589

file= SCALE = ⅜"=1'-0"

STATE PROJECT NUMBER

1000-40-70



2 A402 SECTION LOOKING NORTH-TUNNEL STAIR STW2

SCALE: ⅜"=1'-0"

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TUNNEL STAIRS

SHEET A-402

140

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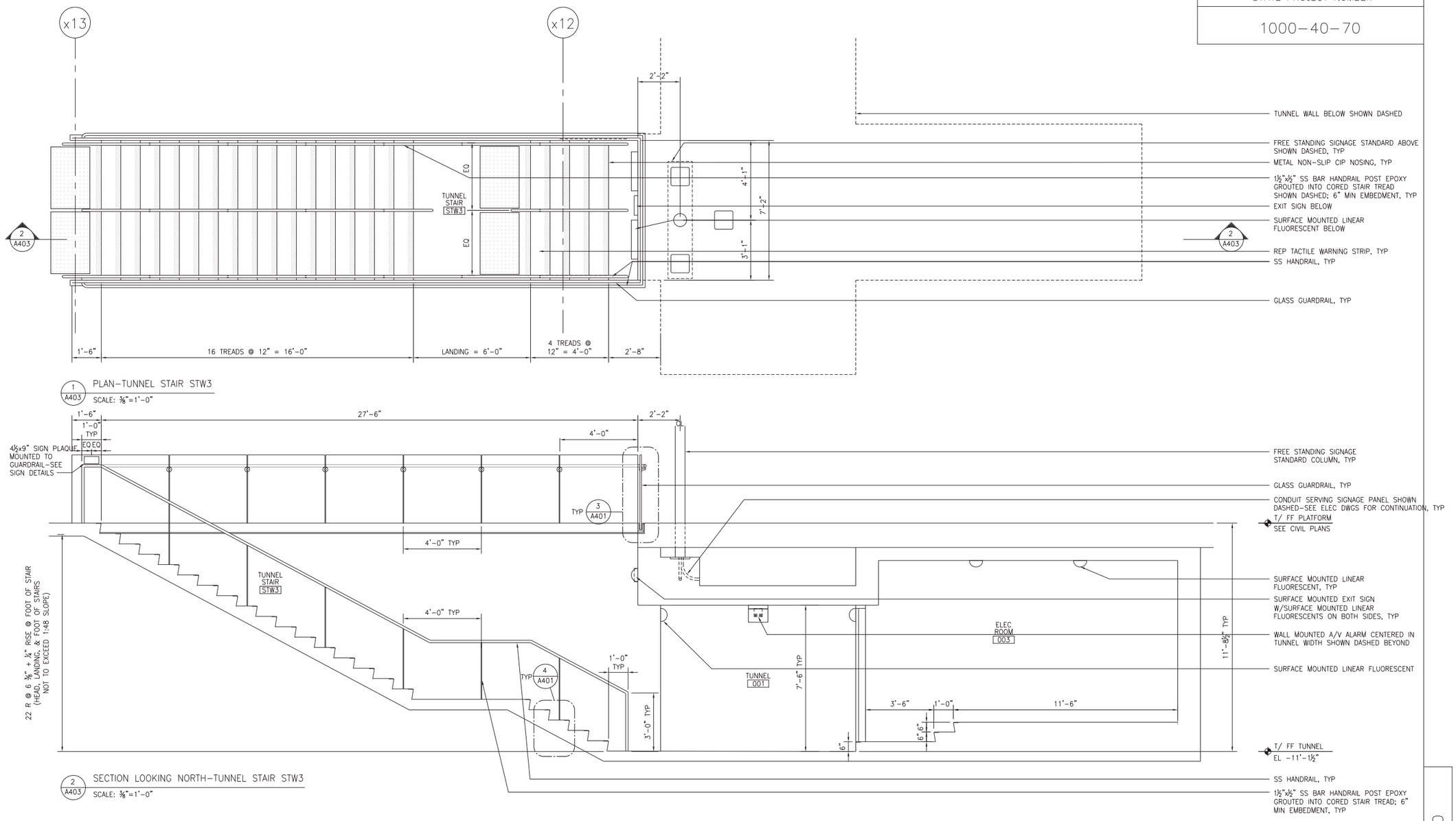
file= SCALE = ⅜"=1'-0"

8

8

STATE PROJECT NUMBER

1000-40-70



1 A403 PLAN-TUNNEL STAIR STW3

SCALE: ⅜"=1'-0"

2 A403 SECTION LOOKING NORTH-TUNNEL STAIR STW3

SCALE: ⅜"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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TUNNEL STAIRS

SHEET A-403

141

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file= SCALE = ⅜"=1'-0"

STATE PROJECT NUMBER

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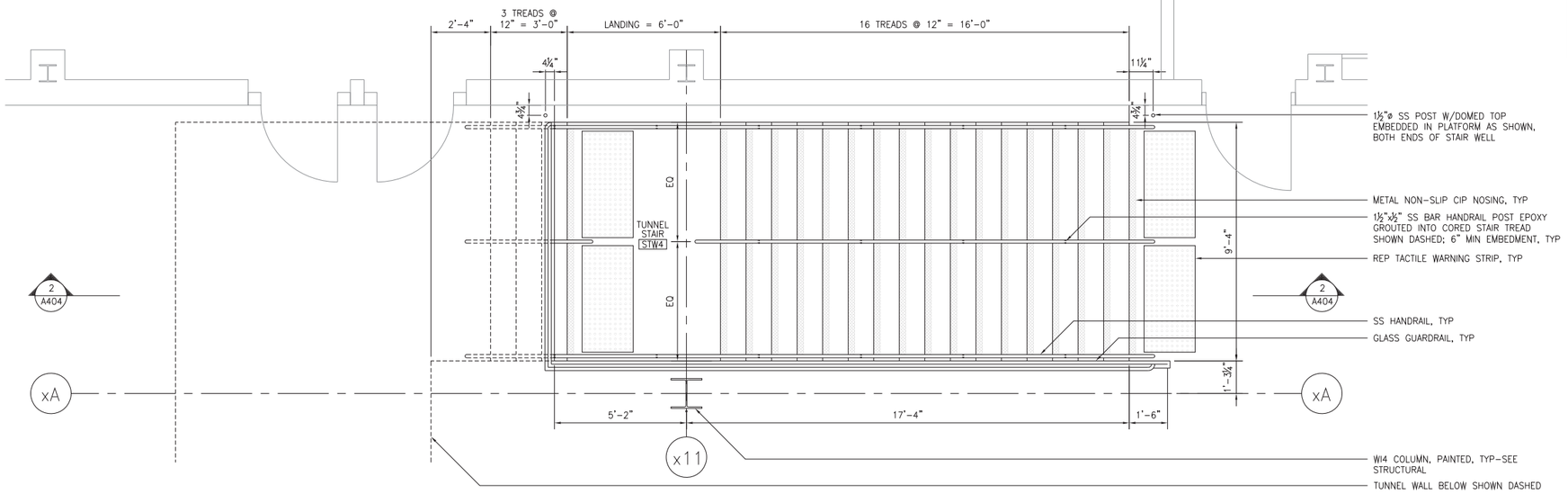
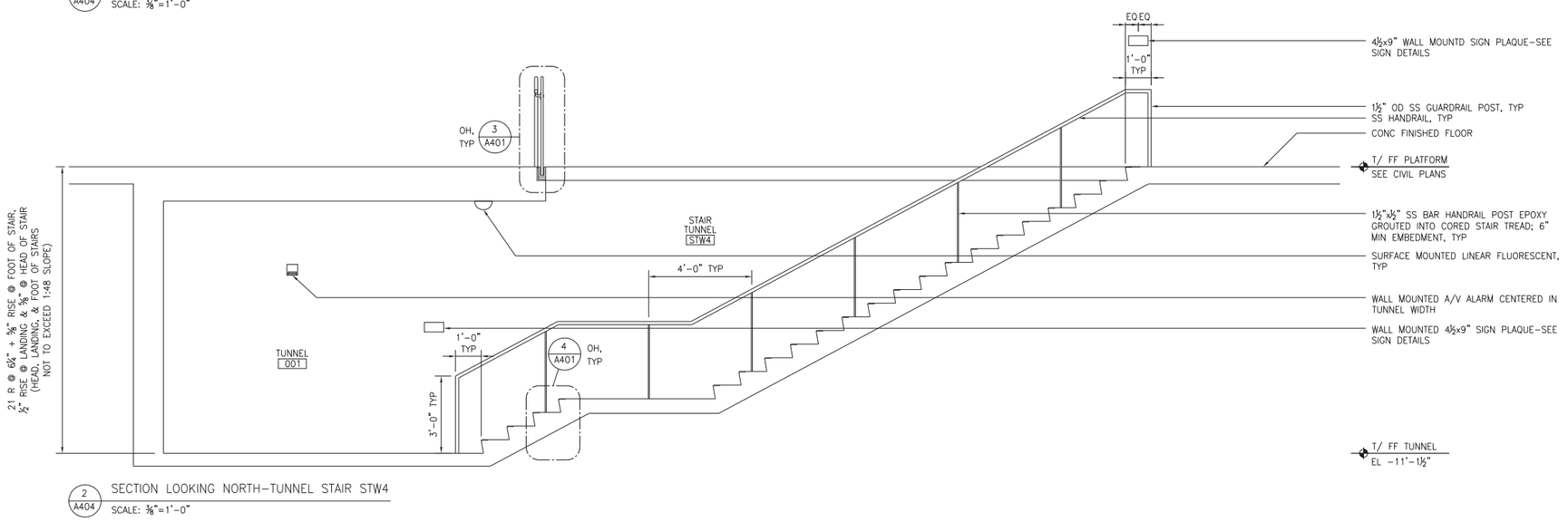


1 A404 PLAN-TUNNEL STAIR STW4

SCALE: ⅜"=1'-0"



2 A404 SECTION LOOKING NORTH-TUNNEL STAIR STW4

SCALE: ⅜"=1'-0"

NO.	DATE	REVISION	BY

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TUNNEL STAIRS

SHEET A-404

142

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file= SCALE = ⅜"=1'-0"

STATE PROJECT NUMBER

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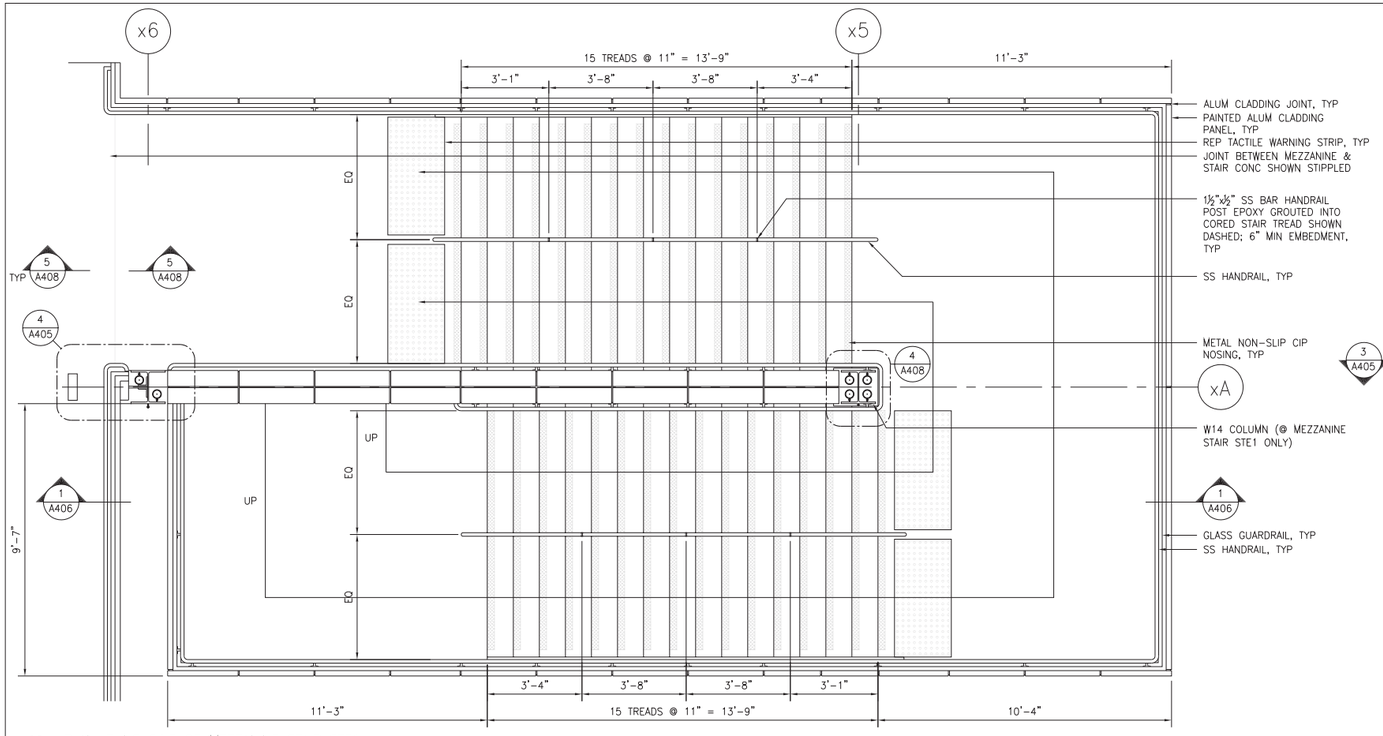
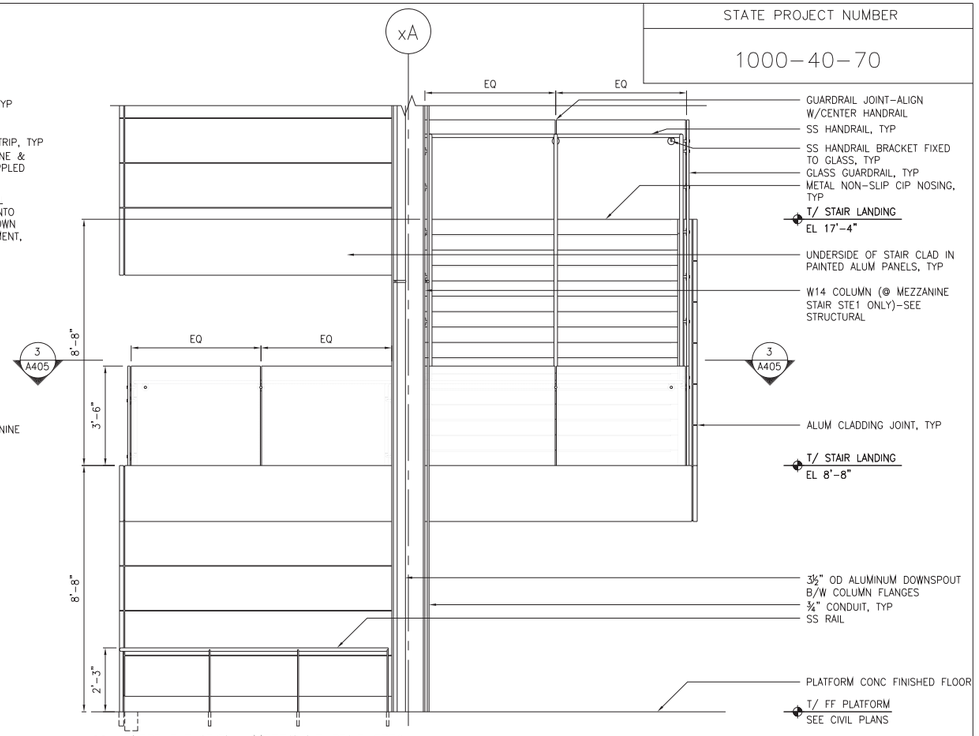


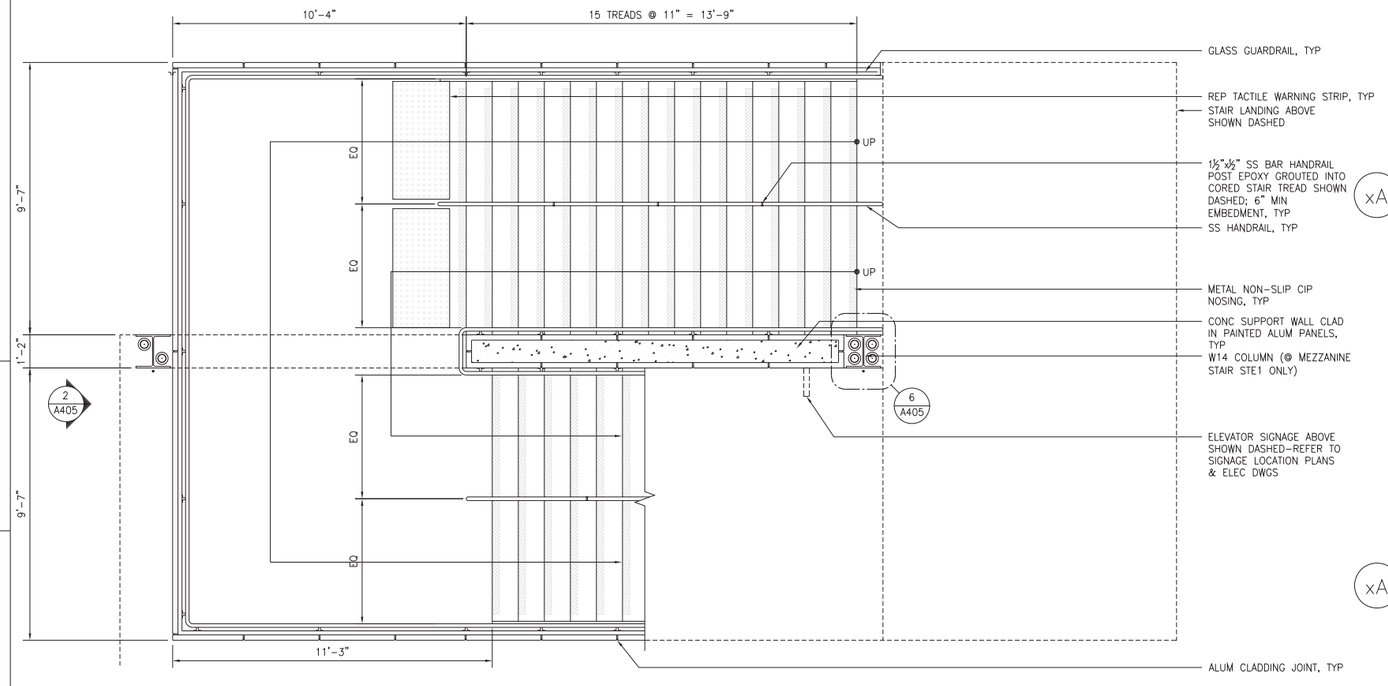
1 A405 PLAN-RUNS 2&3 OF MEZZANINE STAIR STE1

SCALE: ⅜"=1'-0"



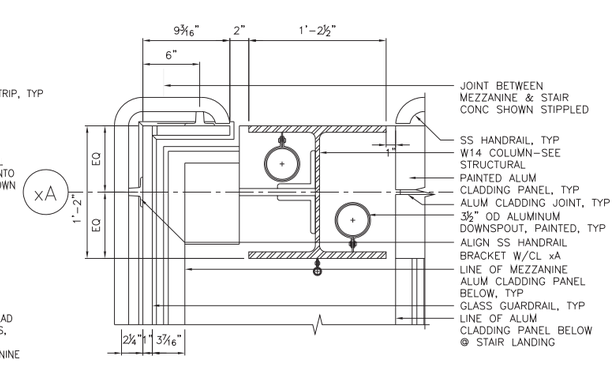
2 A405 WEST ELEVATION- MEZZANINE STAIR STE1

SCALE: ⅜"=1'-0"



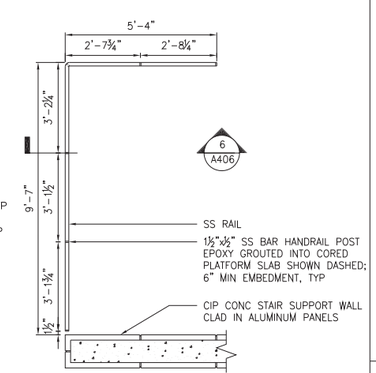
3 A405 PLAN-RUN 1 OF MEZZANINE STAIR STE1

SCALE: ⅜"=1'-0"



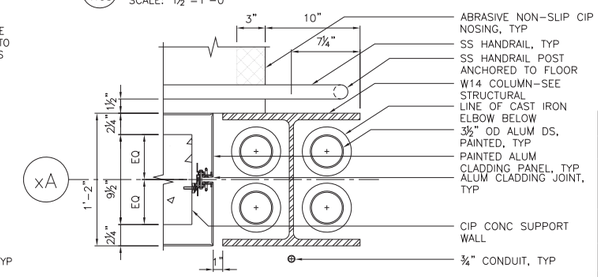
4 A405 DETAIL-SUPPORT WALL @ COLUMN LINE x6

SCALE: 1½"=1'-0"



5 A405 PLAN-CANE RAIL BELOW STAIR STE1

SCALE: ⅜"=1'-0"



6 A405 DETAIL-SUPPORT WALL @ COLUMN LINE x5

SCALE: 1½"=1'-0"

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MEZZANINE STAIRS

SHEET A-405

143

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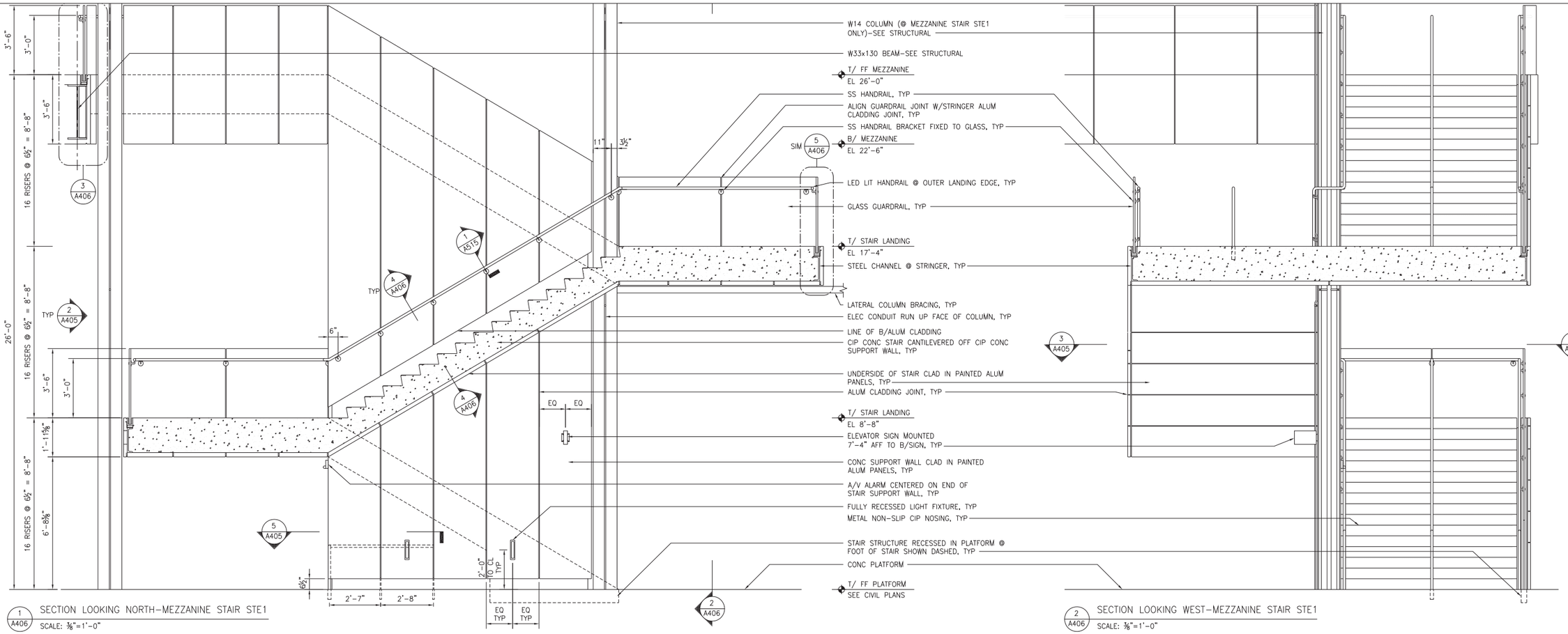
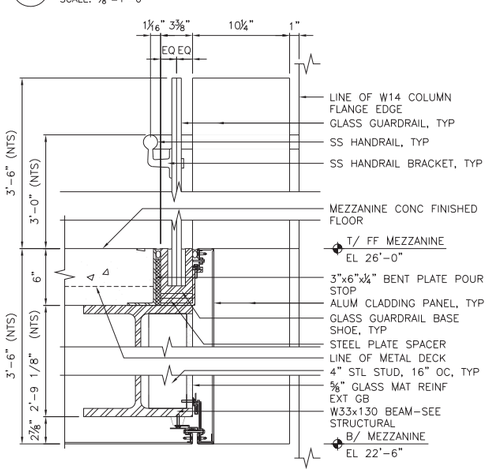


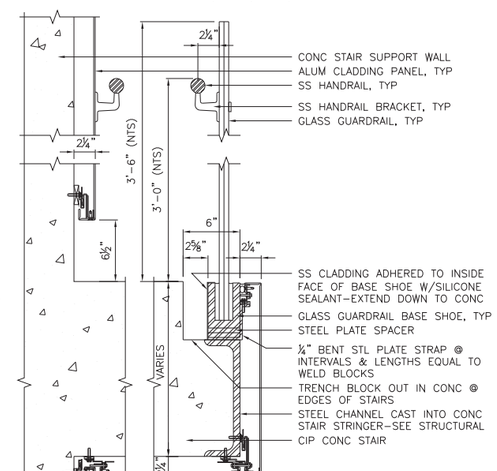
1 A406 SECTION LOOKING NORTH-MEZZANINE STAIR STE1

SCALE: ⅜"=1'-0"



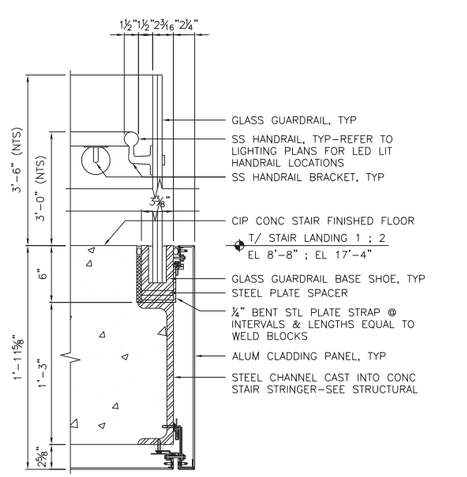
3 A406 DETAIL-MEZZANINE @ STAIR STE1

SCALE: 1½"=1'-0"



4 A406 DETAIL-STAIR STE1 (STE2 & STE3 IDENTICAL)

SCALE: 1½"=1'-0"

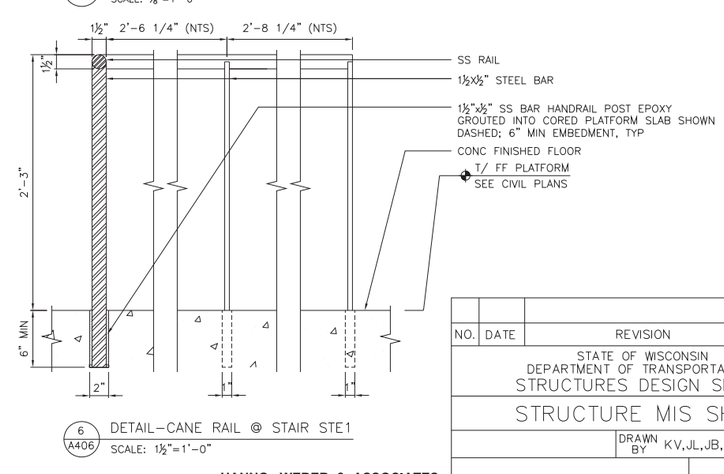


5 A406 DETAIL-STAIR STE1 LANDING (STE2 & STE3 IDENTICAL)

SCALE: 1½"=1'-0"

2 A406 SECTION LOOKING WEST-MEZZANINE STAIR STE1

SCALE: ⅜"=1'-0"



6 A406 DETAIL-CANE RAIL @ STAIR STE1

SCALE: 1½"=1'-0"

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MEZZANINE STAIRS

SHEET A-406

144

file=

SCALE = ⅜"=1'-0" U.N.O.

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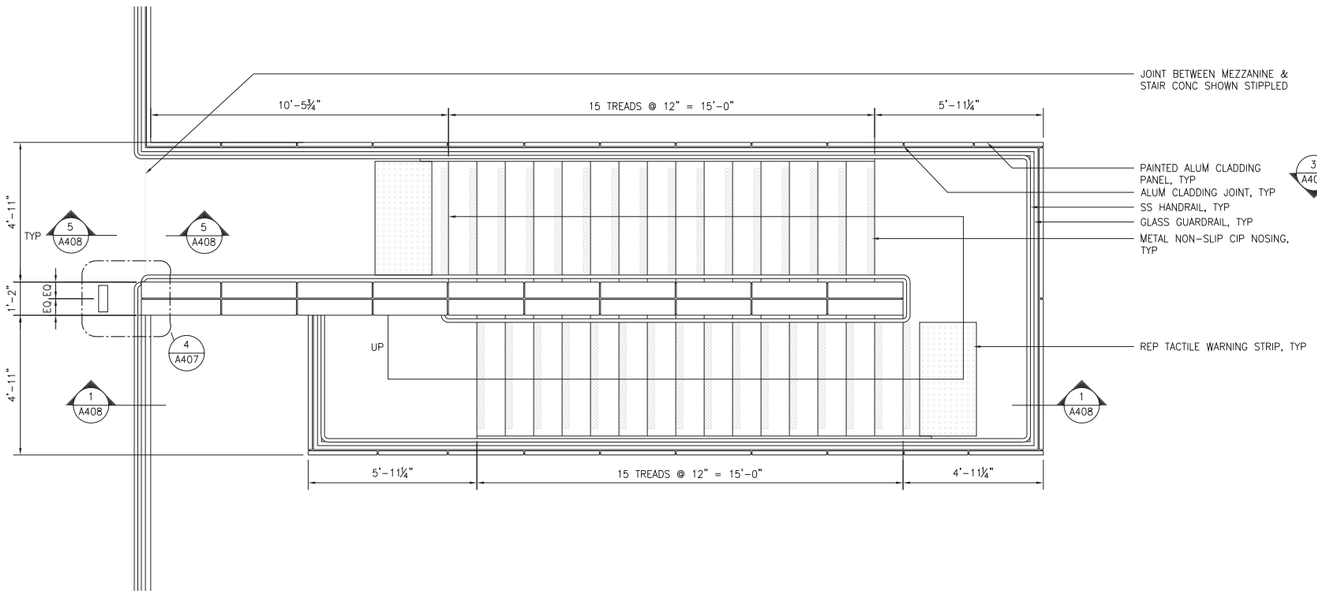
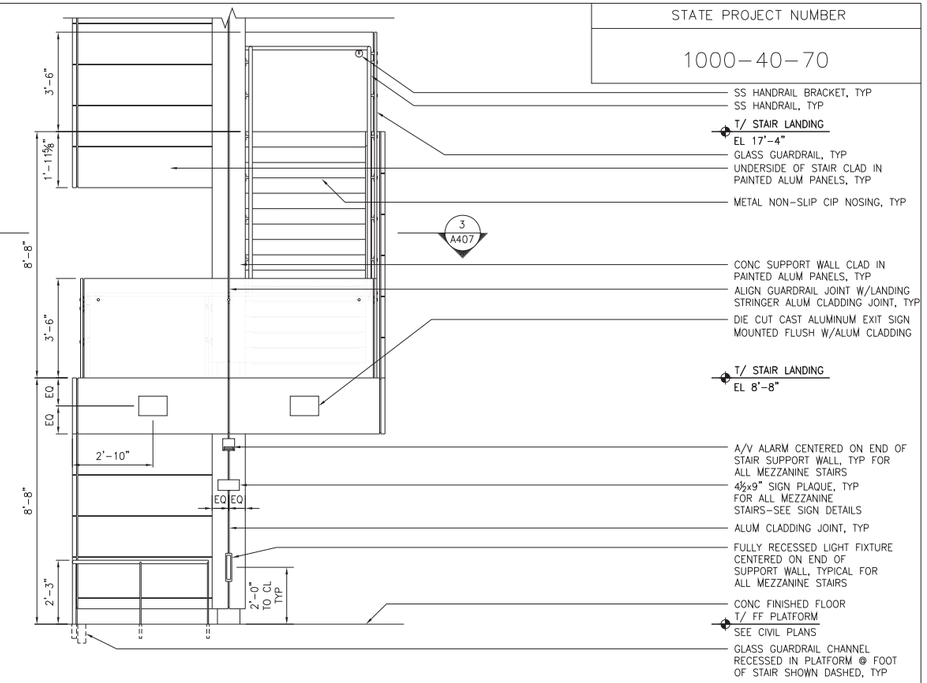


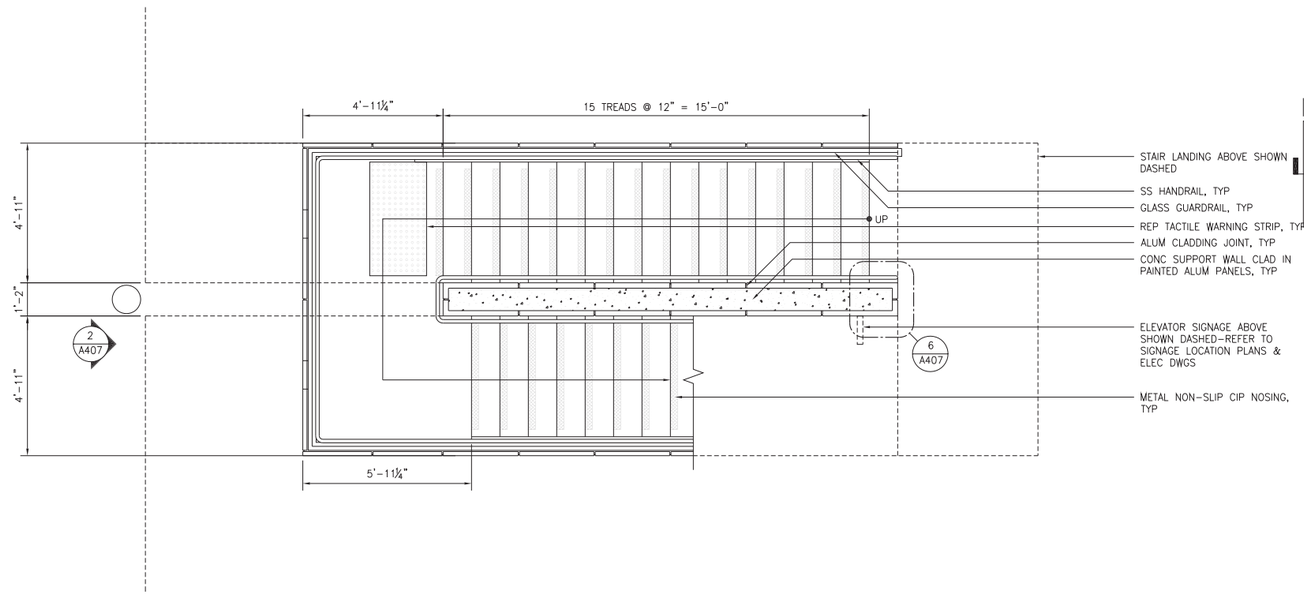
1 A407 PLAN-RUNS 2&3 OF MEZZANINE STAIR STE2

SCALE: ⅜"=1'-0"



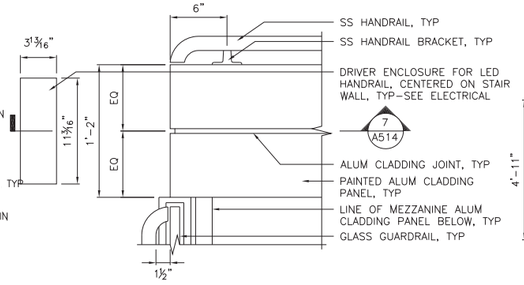
2 A407 WEST ELEVATION-MEZZANINE STAIR STE2

SCALE: ⅜"=1'-0"



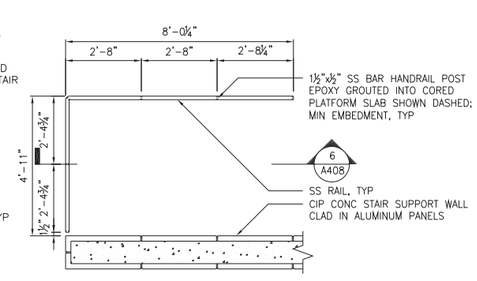
3 A407 PLAN-RUN 1 OF MEZZANINE STAIR STE2

SCALE: ⅜"=1'-0"



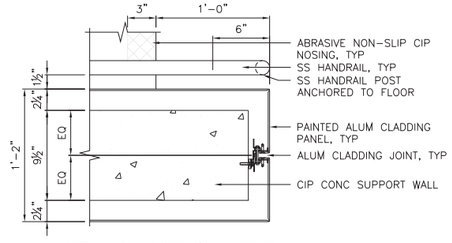
4 A407 DETAIL-SUPPORT WALL STAIR STE2 (STE3 IDENTICAL)

SCALE: 1½"=1'-0"



5 A407 PLAN-CANE RAIL BELOW STAIR STE2

SCALE: ⅜"=1'-0"



DETAIL-SUPPORT WALL STAIR STE2 (STE3 IDENTICAL)

6 A407 SCALE: 1½"=1'-0"

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MEZZANINE STAIRS

SHEET A-407

145

file= SCALE = ⅜"=1'-0" U.N.O.

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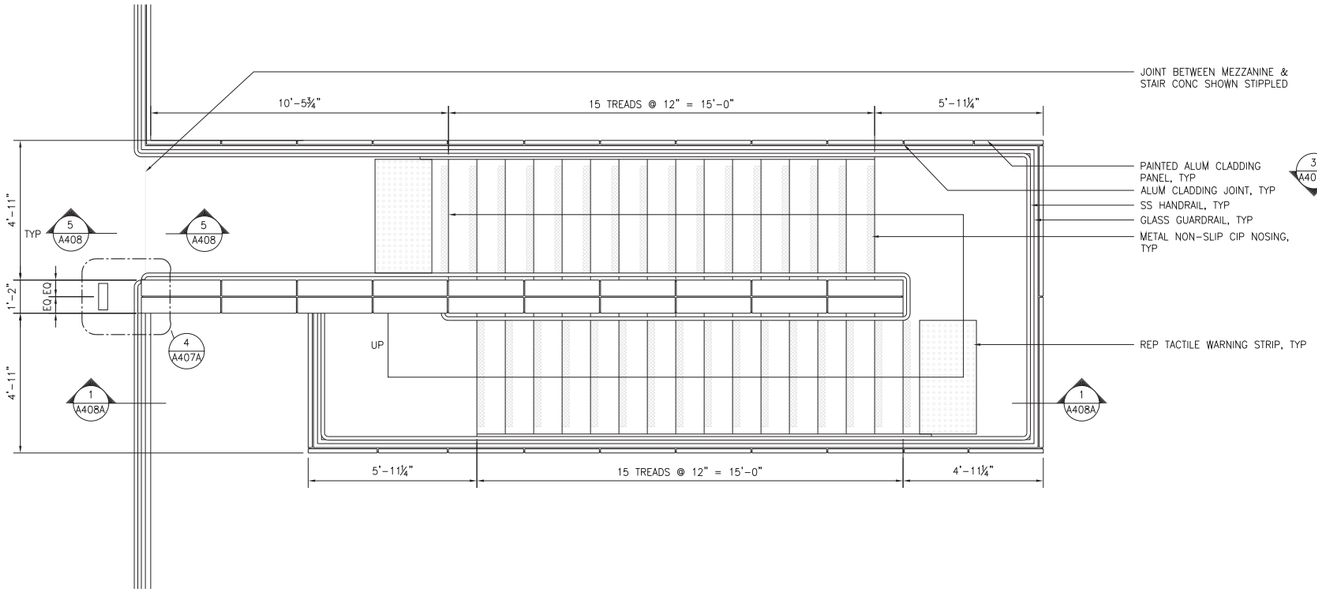
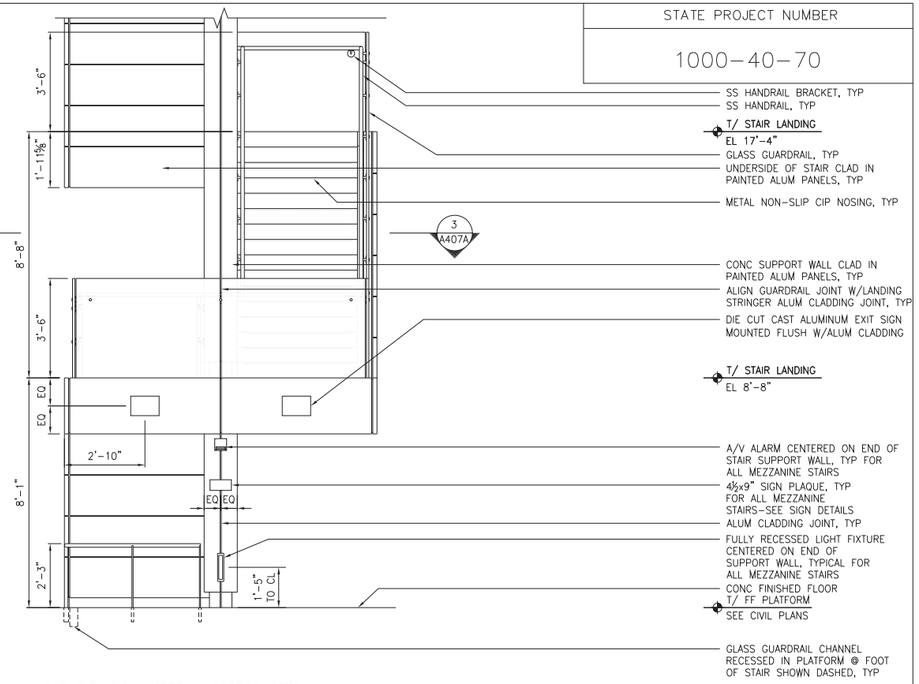


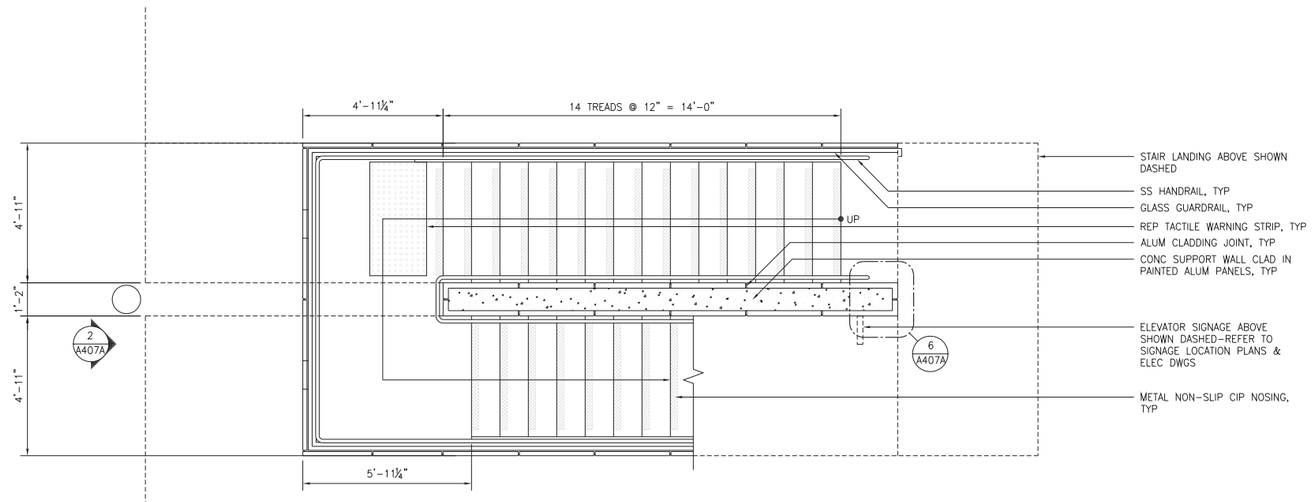
1 A407A PLAN-RUNS 2&3 OF MEZZANINE STAIR STE3

SCALE: ⅜"=1'-0"



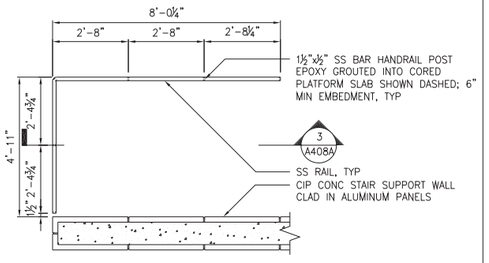
2 A407A WEST ELEVATION-MEZZANINE STAIR STE3

SCALE: ⅜"=1'-0"



3 A407A PLAN-RUN 1 OF MEZZANINE STAIR STE3

SCALE: ⅜"=1'-0"



4 A407A PLAN-CANE RAIL BELOW STAIR STE3

SCALE: ⅜"=1'-0"

NO.	DATE	REVISION	BY

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MEZZANINE STAIRS

SHEET A-407A

146

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file= SCALE = ⅜"=1'-0" U.N.O.

STATE PROJECT NUMBER

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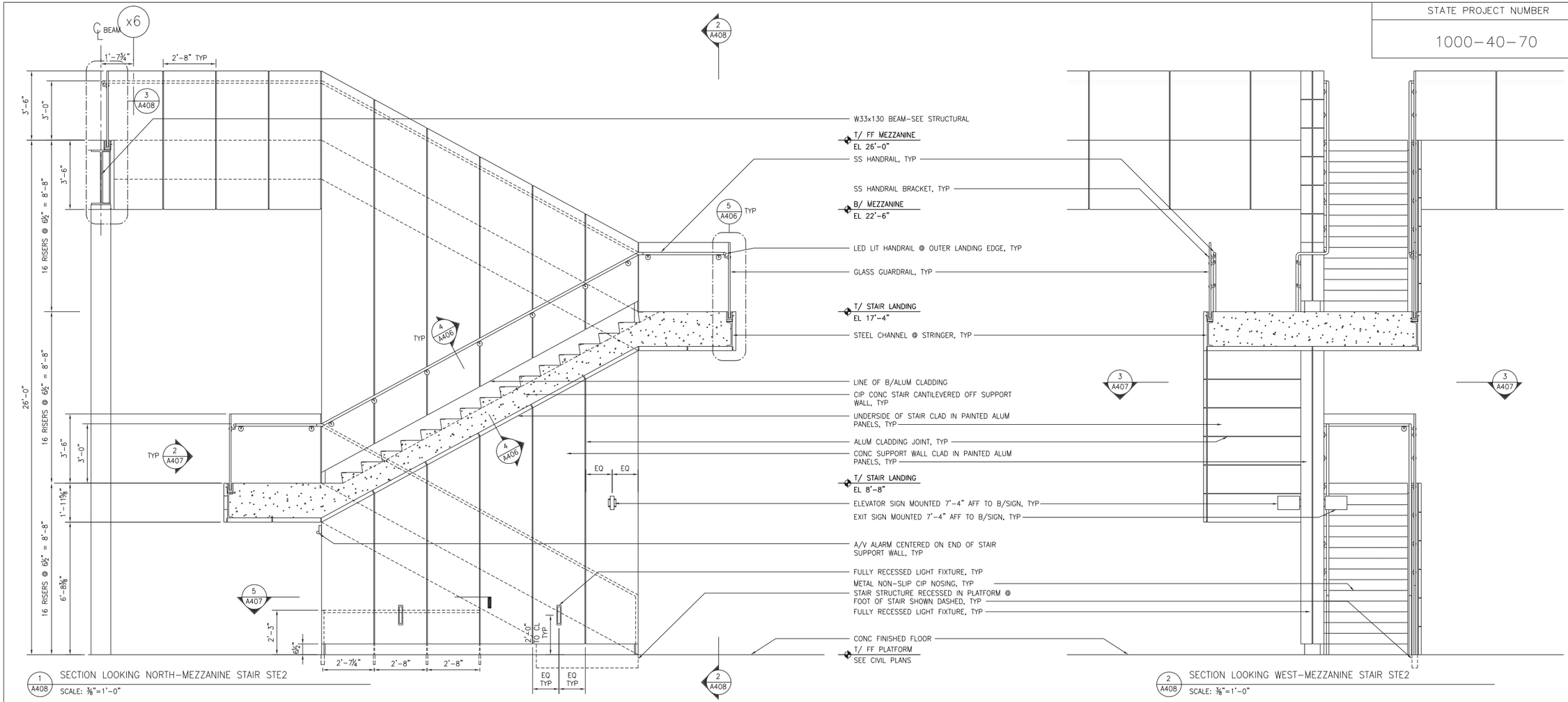
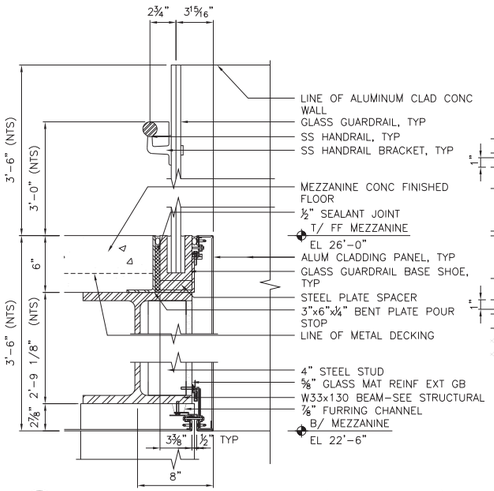


1 A408 SECTION LOOKING NORTH-MEZZANINE STAIR STE2

SCALE: ⅜"=1'-0"

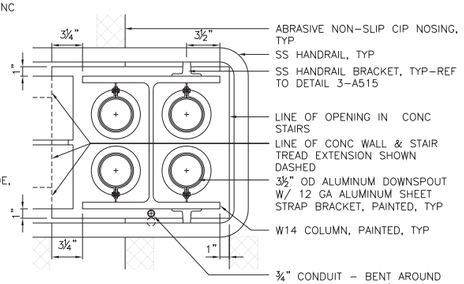
2 A408 SECTION LOOKING WEST-MEZZANINE STAIR STE2

SCALE: ⅜"=1'-0"



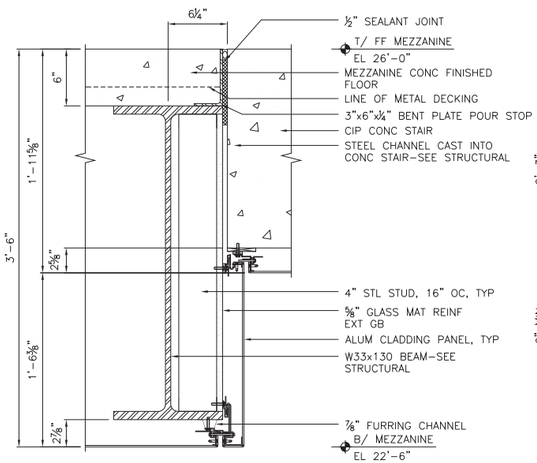
3 A408 DETAIL-MEZZANINE @ STAIR STE2 (STE3 IDENTICAL)

SCALE: 1½"=1'-0"



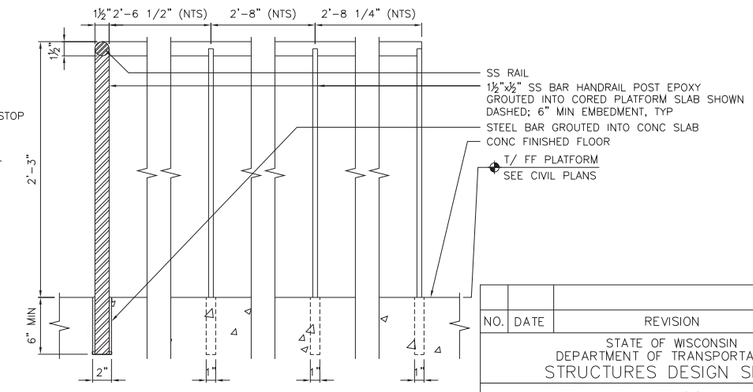
4 A408 DETAIL-SUPPORT WALL @ COL LINE x6

SCALE: 1½"=1'-0"



5 A408 DETAIL-JOINT @ STAIR STE1 & MEZZANINE (STE2 & STE3 IDENTICAL)

SCALE: 1½"=1'-0"



6 A408 DETAIL-CANE RAIL @ STAIR STE2

SCALE: 1½"=1'-0"

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MEZZANINE STAIRS

SHEET A-408

147

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file= SCALE = ⅜"=1'-0" U.N.O.

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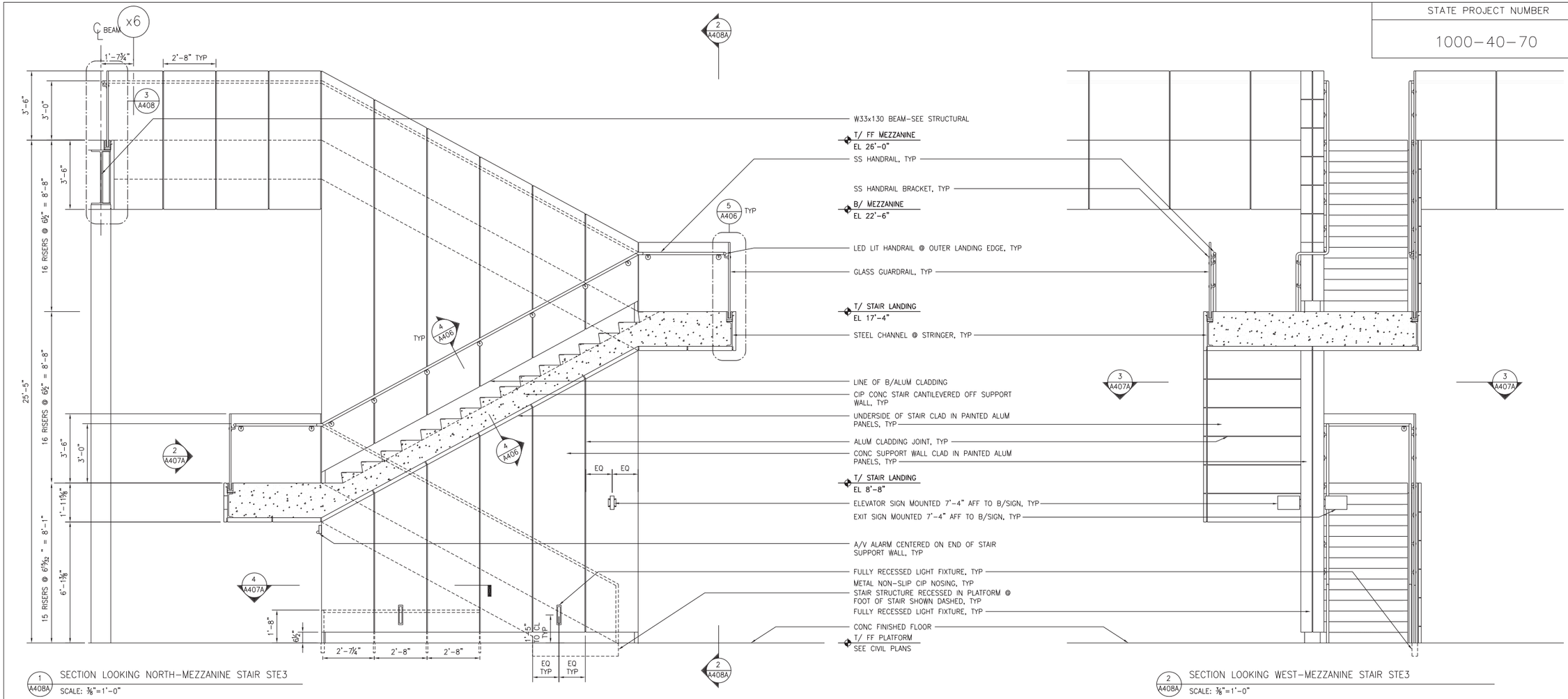
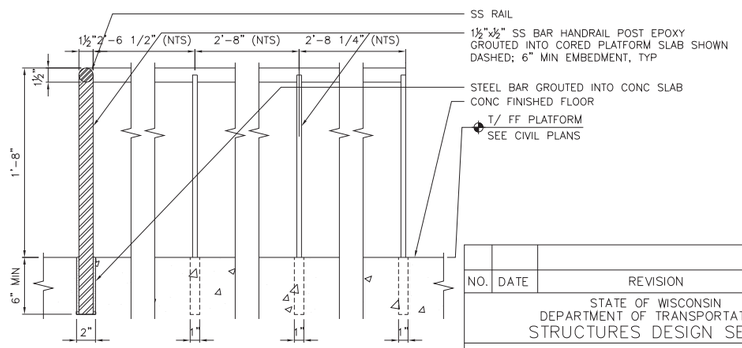


1 A408A SECTION LOOKING NORTH-MEZZANINE STAIR STE3

SCALE: ⅜"=1'-0"

2 A408A SECTION LOOKING WEST-MEZZANINE STAIR STE3

SCALE: ⅜"=1'-0"



3 A408A DETAIL-CANE RAIL @ STAIR STE3

SCALE: 1½"=1'-0"

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MEZZANINE STAIRS

SHEET A-408A

148

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file= SCALE = 3/8"=1'-0" U.N.O.

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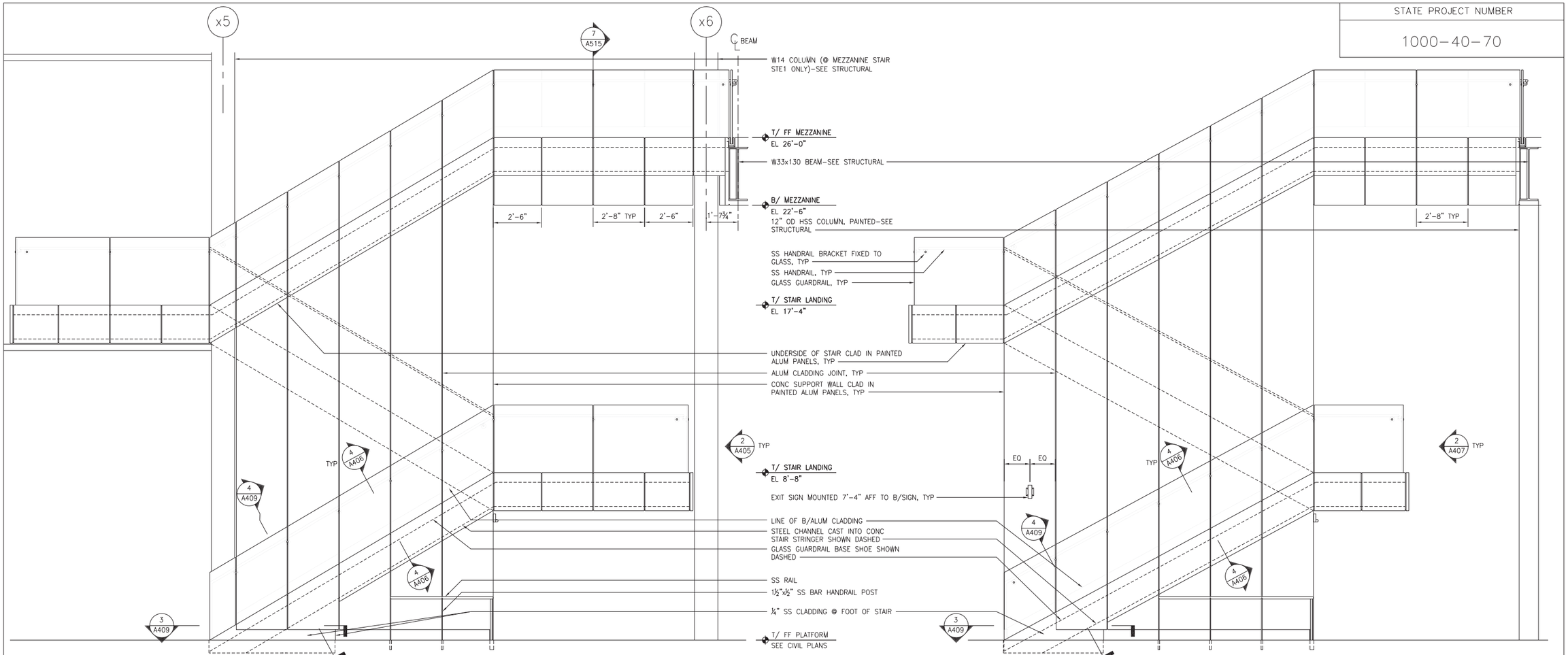
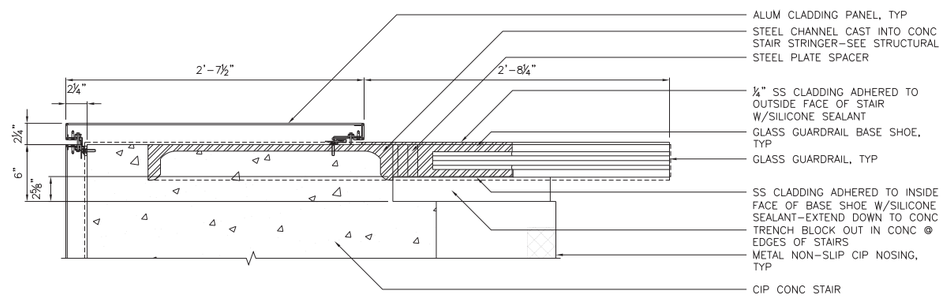
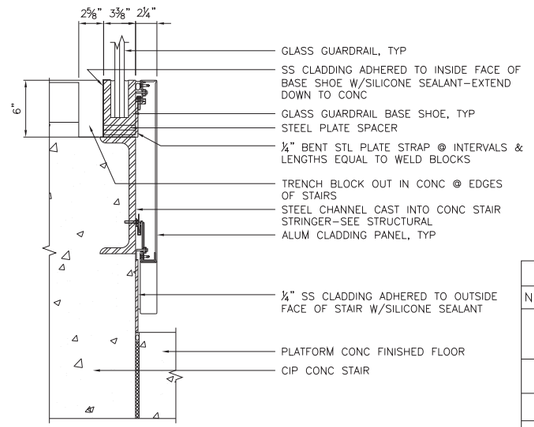


1 A409 NORTH ELEVATION-MEZZANINE STAIR STE1
SCALE: ⅜"=1'-0"

2 A409 NORTH ELEVATION-MEZZANINE STAIR STE2
SCALE: ⅜"=1'-0"



3 A409 DETAIL-FOOT OF MEZZANINE STAIRS STE2 (STE3 IDENTICAL)
SCALE: 1½"=1'-0"



4 A409 DETAIL-FOOT OF MEZZANINE STAIRS STE2 (STE3 IDENTICAL)
SCALE: 1½"=1'-0"

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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MEZZANINE STAIRS

SHEET A-409

149

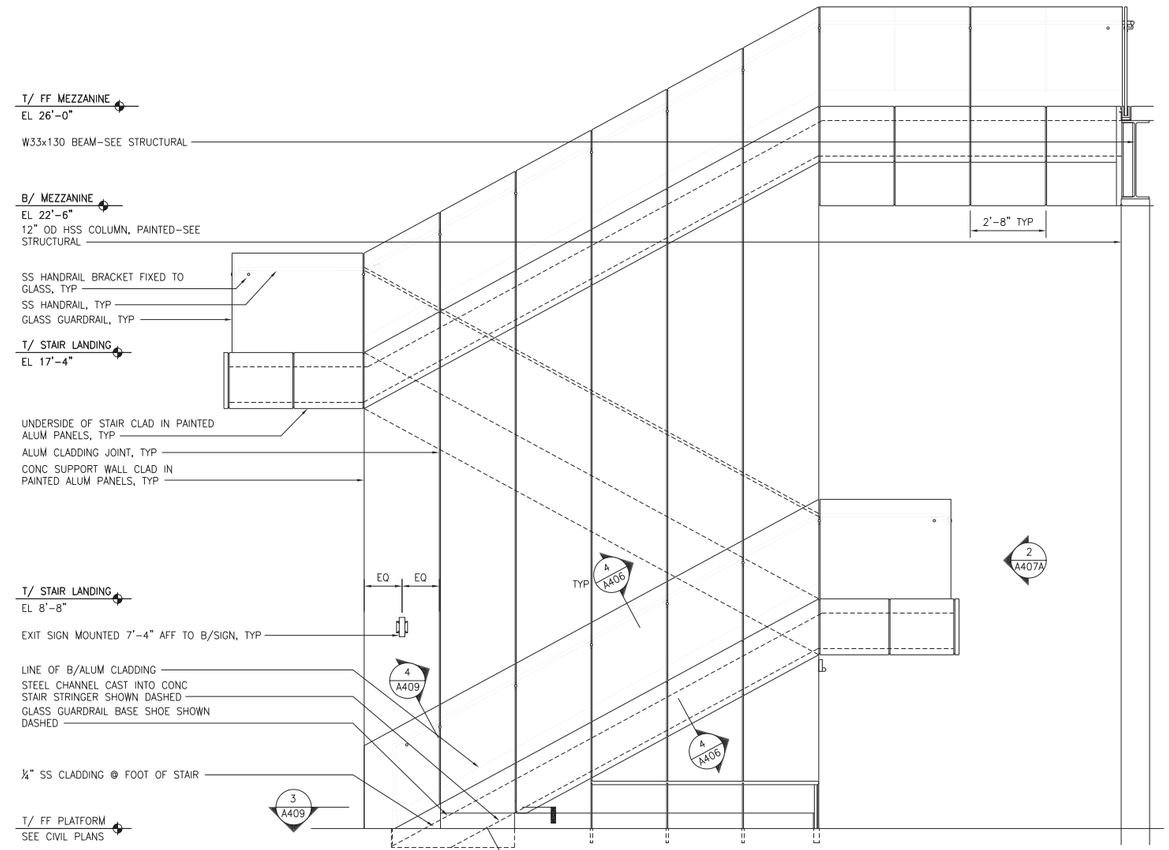
file= SCALE = ⅜"=1'-0" U.N.O.

08

08

STATE PROJECT NUMBER

1000–40–70



2 A409 NORTH ELEVATION–MEZZANINE STAIR STE3

SCALE: ⅜"=1'–0"

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MEZZANINE STAIRS

SHEET A–409A

150

file= SCALE = ⅜"=1'–0" U.N.O.

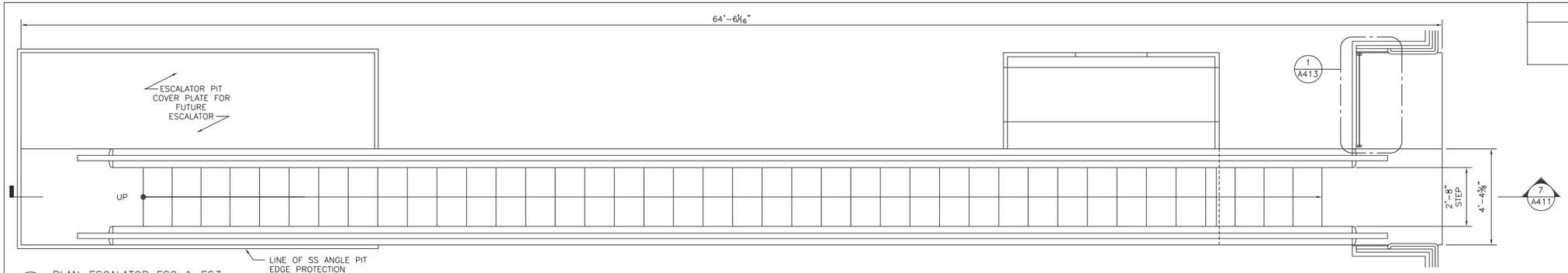
08

08

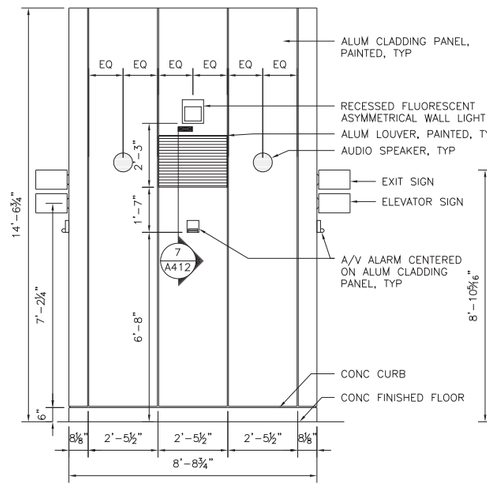
STATE PROJECT NUMBER

1000-40-70

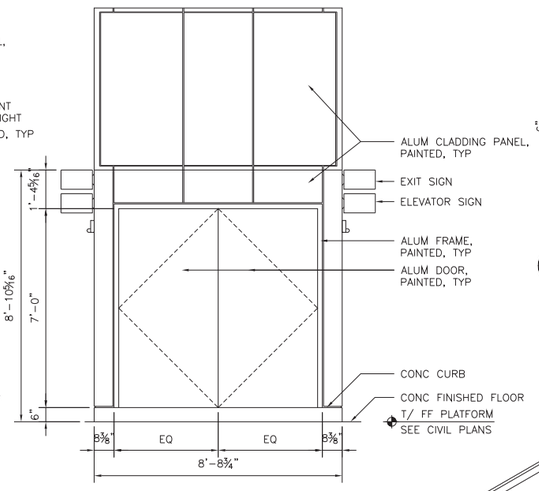
ESCALATOR PAIR ES1 TO FOLLOW ALL DETAILS OF SINGLE ESCALATOR SHOWN



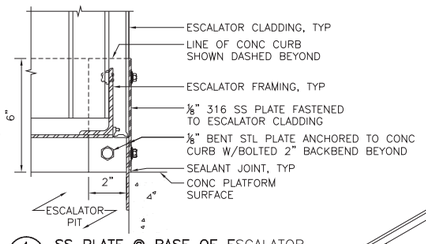
1 A410 PLAN-ESCALATOR ES2 & ES3
SCALE: 3/8"=1'-0"



2 A410 EAST ELEVATION-MACHINE ROOM 102 (IDENTICAL FOR ALL ESCALATORS)
SCALE: 3/8"=1'-0"



3 A410 WEST ELEVATION-MACHINE ROOM 102 (IDENTICAL FOR ALL ESCALATORS)
SCALE: 3/8"=1'-0"



4 A410 SS PLATE @ BASE OF ESCALATOR
SCALE: 3"=1'-0"

5 A410 SOUTH ELEVATION-ESCALATOR ES2 (ES1 IDENTICAL)
SCALE: 3/8"=1'-0"

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ESCALATOR PLANS & SECTIONS

SHEET A-410

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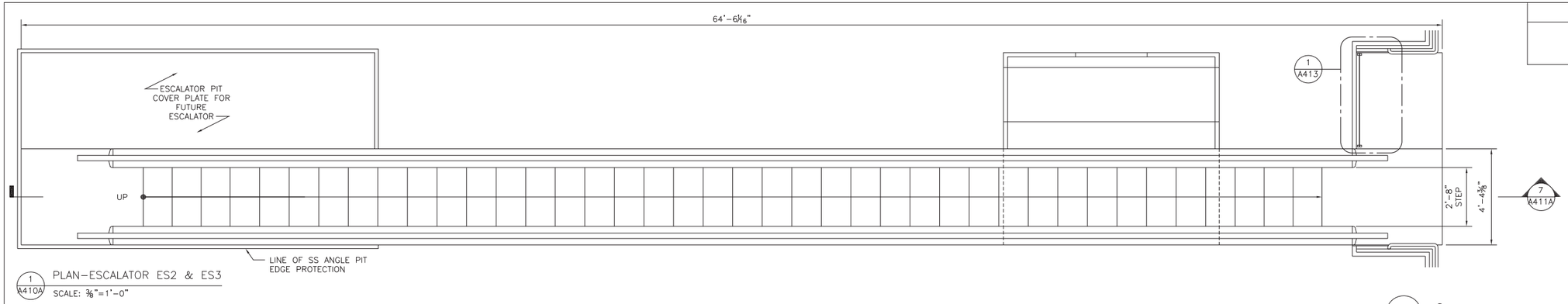
file= SCALE = 3/8"=1'-0"

STATE PROJECT NUMBER

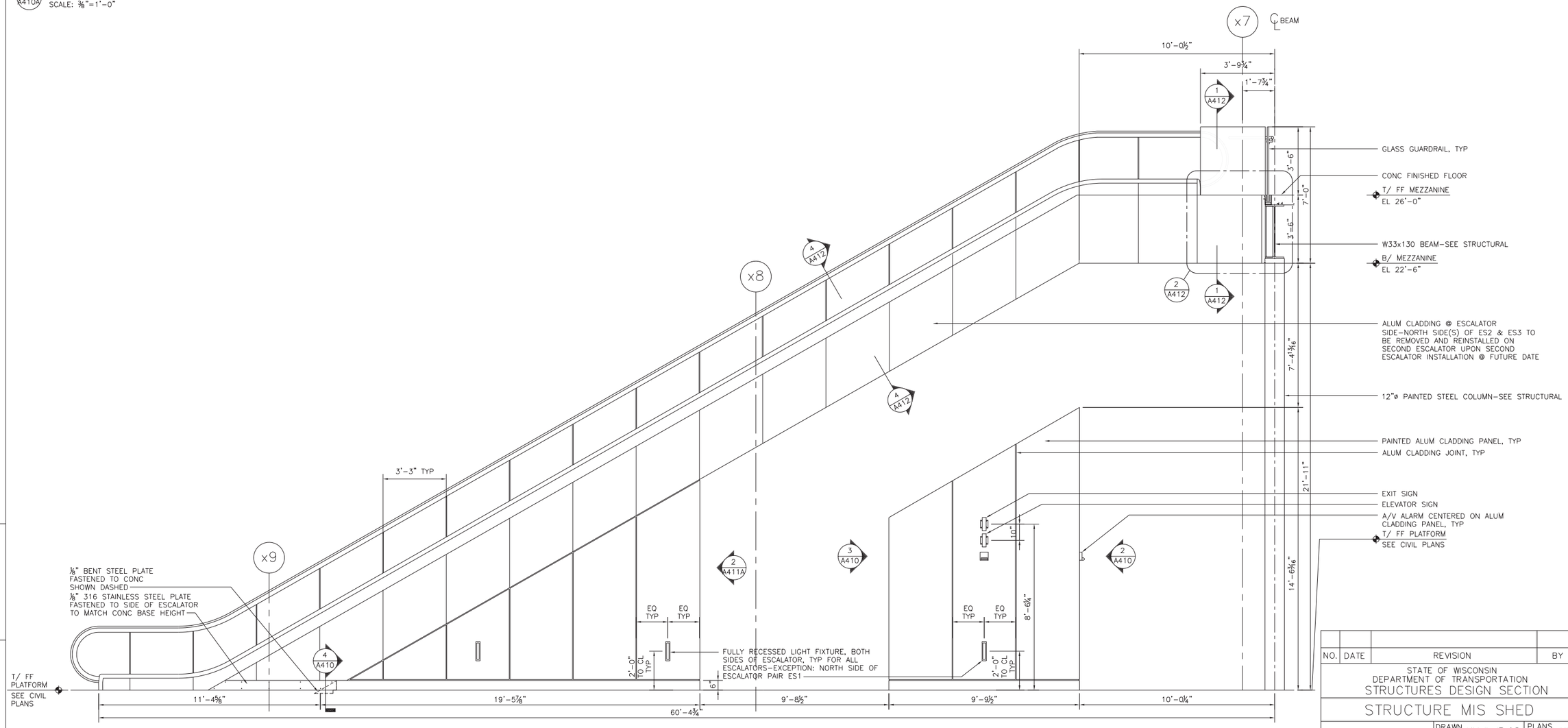
1000-40-70

ESCALATOR PAIR ES1 TO FOLLOW ALL DETAILS OF SINGLE ESCALATOR SHOWN



1 A410A PLAN-ESCALATOR ES2 & ES3

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



5 A410A SOUTH ELEVATION-ESCALATOR ES3

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

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ESCALATOR PLANS & SECTIONS

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file= SCALE = 3/8"=1'-0"

STATE PROJECT NUMBER

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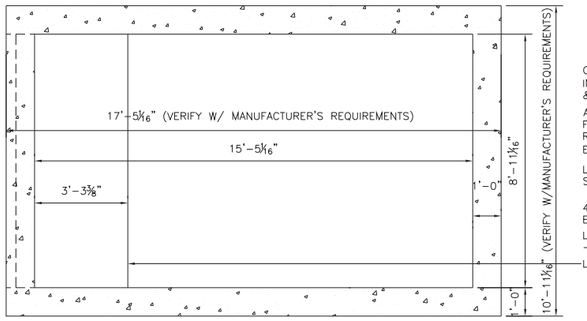
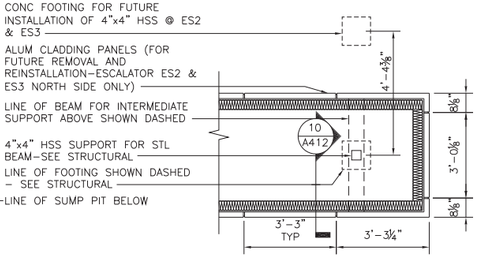


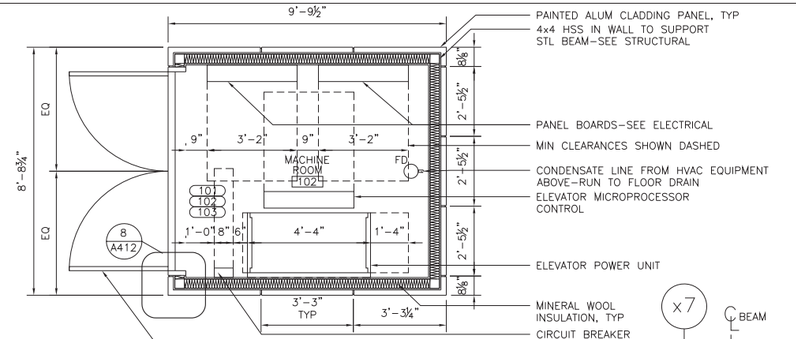
1 A411 PLAN–ESCALATOR PIT (IDENTICAL FOR ALL ESCALATORS)

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



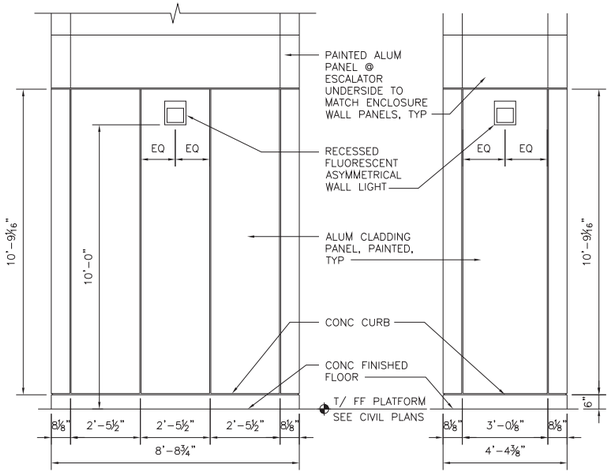
2 A411 PLAN–ENCLOSURE OF UNDERSIDE OF ESCALATOR ES2 (ES3 IDENTICAL)

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



3 A411 PLAN–MACHINE ROOM 102 (101 & 103 IDENTICAL)

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

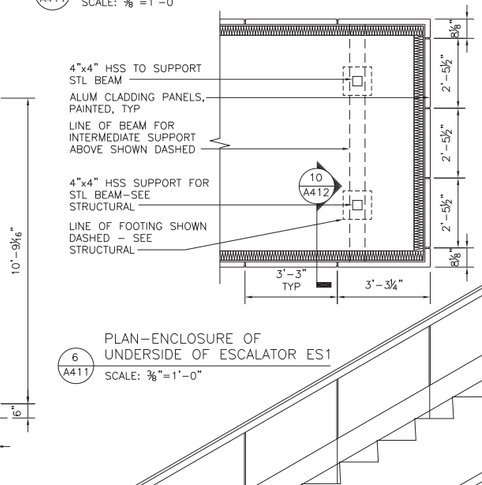


4 A411 EAST ELEVATION–UNDERSIDE ESCALATOR ENCLOSURE WALL (ESCALATOR PAIR ES1)

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

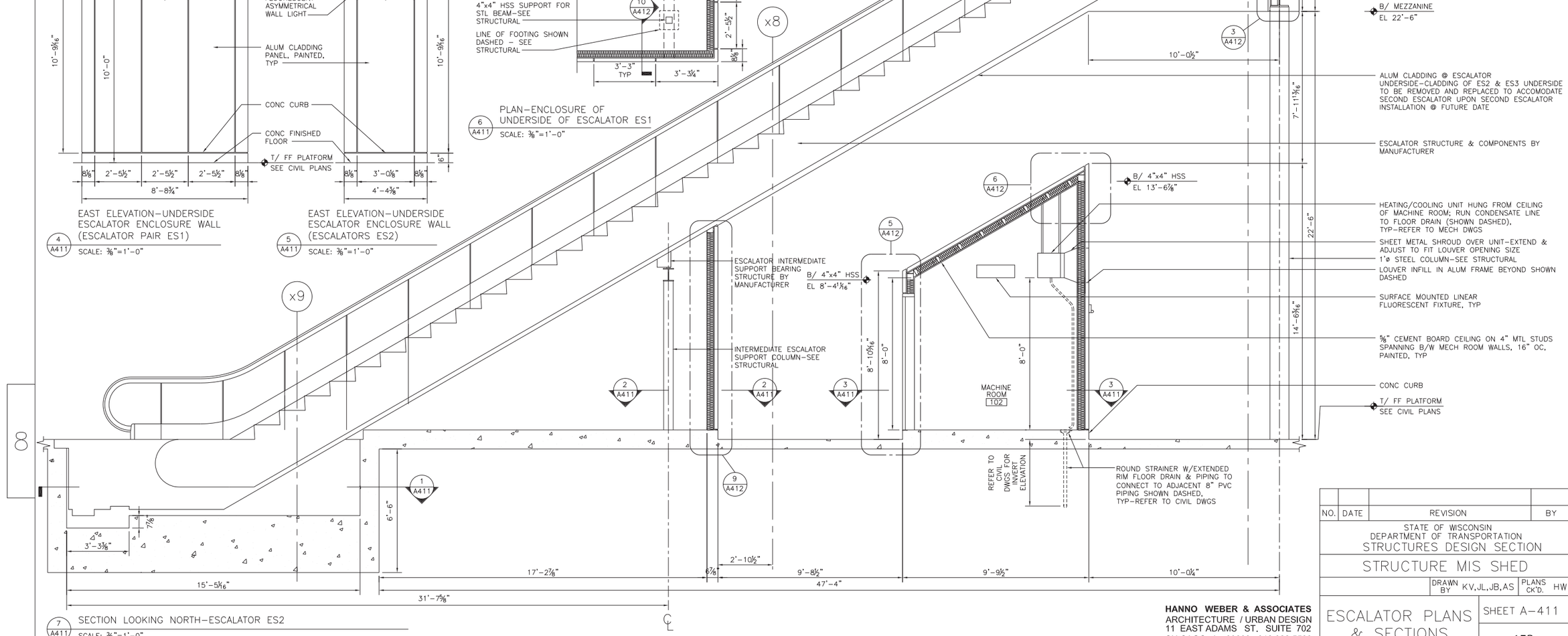
5 A411 EAST ELEVATION–UNDERSIDE ESCALATOR ENCLOSURE WALL (ESCALATORS ES2)

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



6 A411 PLAN–ENCLOSURE OF UNDERSIDE OF ESCALATOR ES1

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



7 A411 SECTION LOOKING NORTH–ESCALATOR ES2

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

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ESCALATOR PLANS & SECTIONS

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file= SCALE = 3/8"=1'-0" U.N.O.

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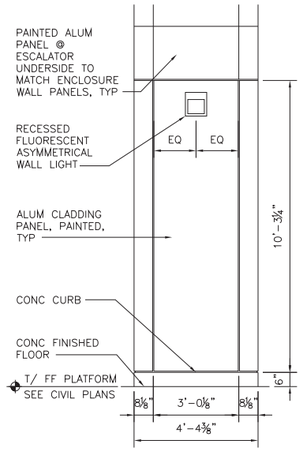
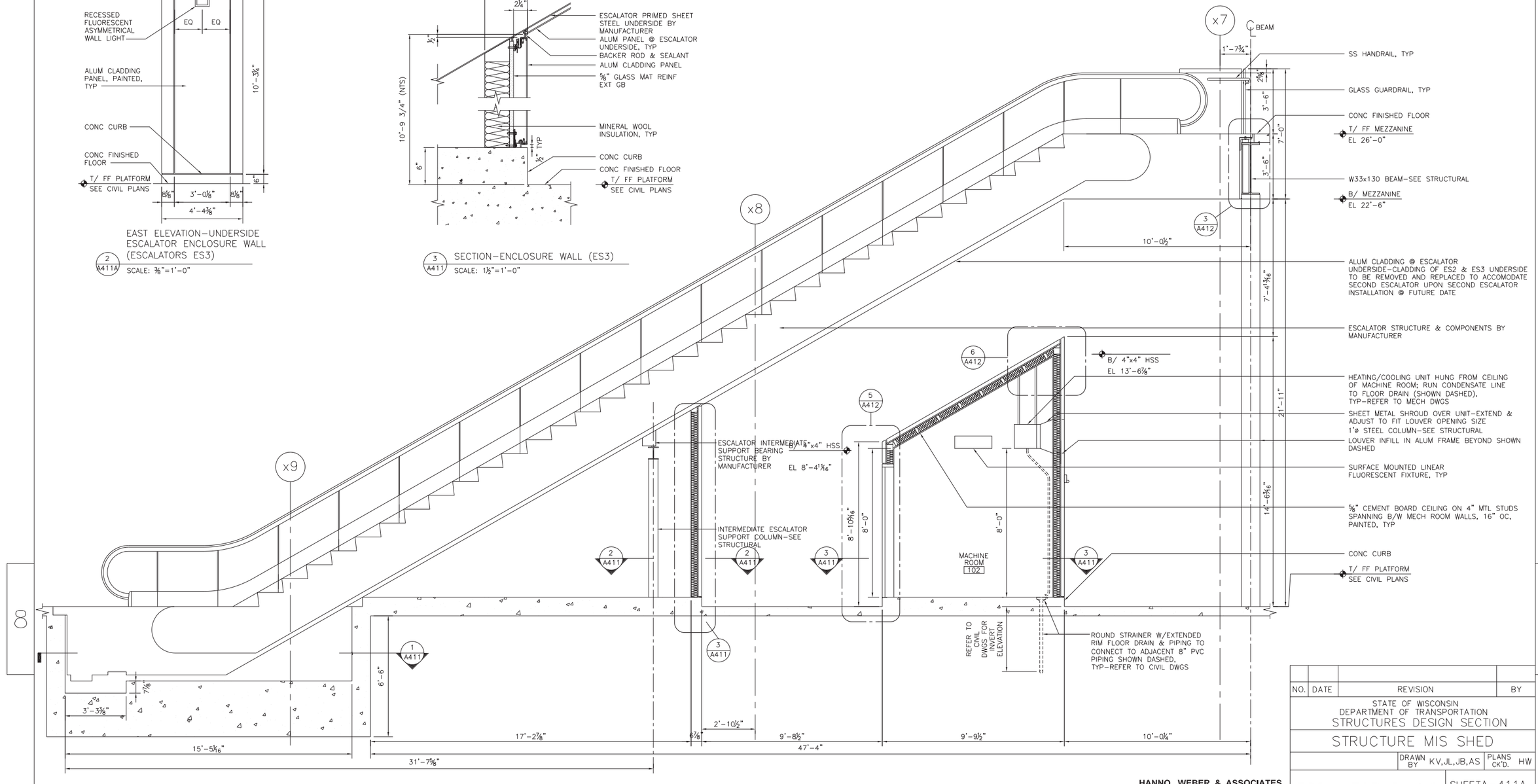


2 / A411A EAST ELEVATION–UNDERSIDE ESCALATOR ENCLOSURE WALL (ESCALATORS ES3)

SCALE: ⅜"=1'-0"

3 / A411 SECTION–ENCLOSURE WALL (ES3)

SCALE: 1½"=1'-0"



7 / A411A SECTION LOOKING NORTH–ESCALATOR ES3

SCALE: ⅜"=1'-0"

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ESCALATOR PLANS & SECTIONS

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file= SCALE = ⅜"=1'-0" U.N.O.

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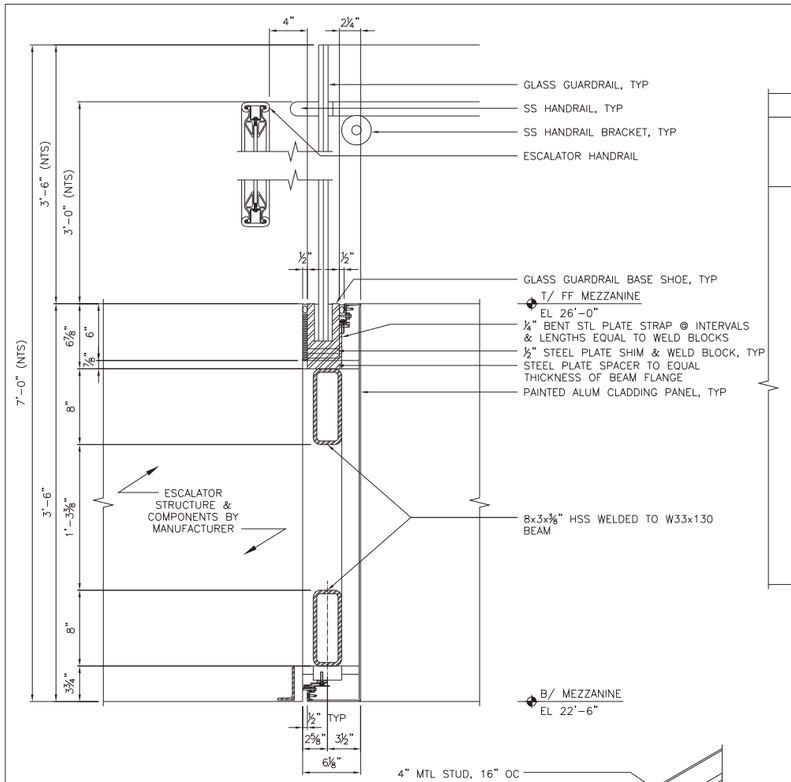
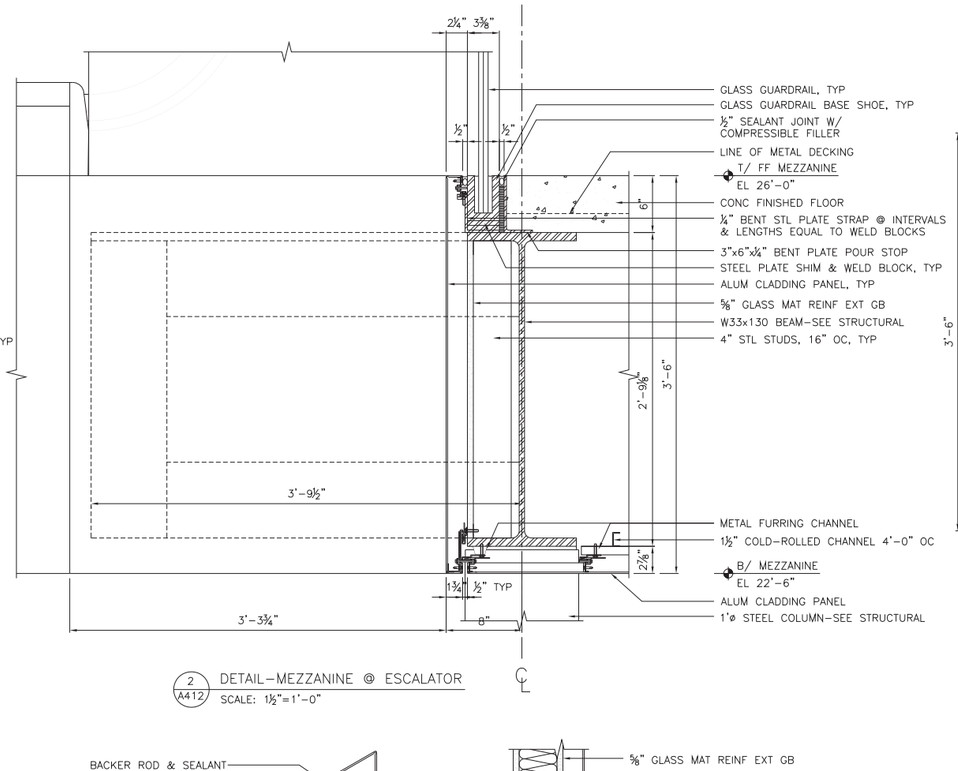


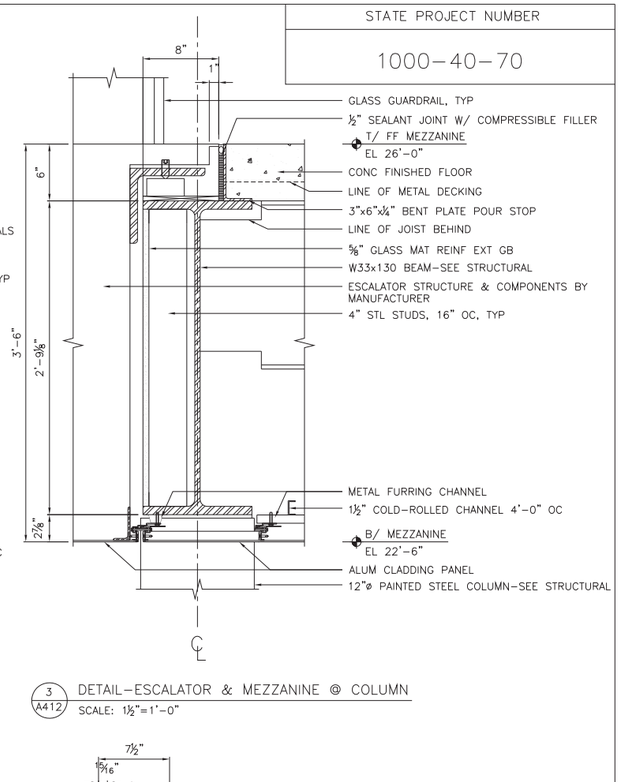
1 A412 DETAIL-MEZZANINE & ESCALATOR

SCALE: 1½"=1'-0"



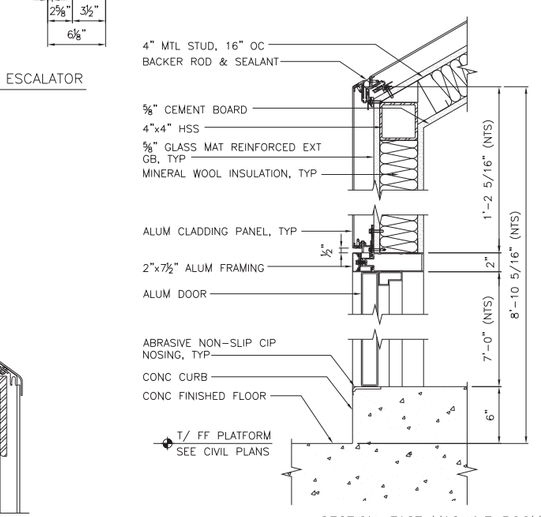
2 A412 DETAIL-MEZZANINE @ ESCALATOR

SCALE: 1½"=1'-0"



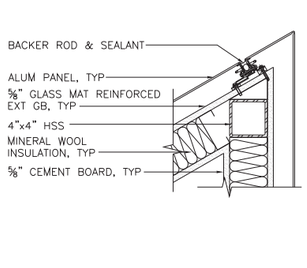
3 A412 DETAIL-ESCALATOR & MEZZANINE @ COLUMN

SCALE: 1½"=1'-0"



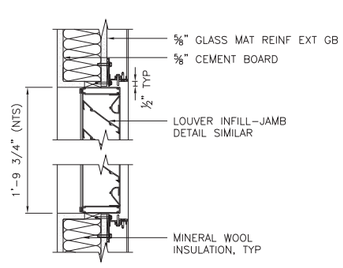
5 A412 SECTION-EAST MACHINE ROOM WALL

SCALE: 1½"=1'-0"



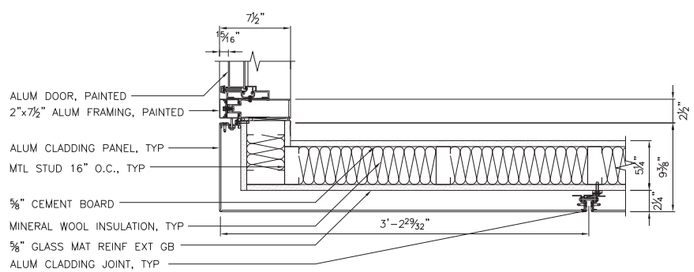
6 A412 DETAIL-MACHINE ROOM EAST WALL

SCALE: 1½"=1'-0"



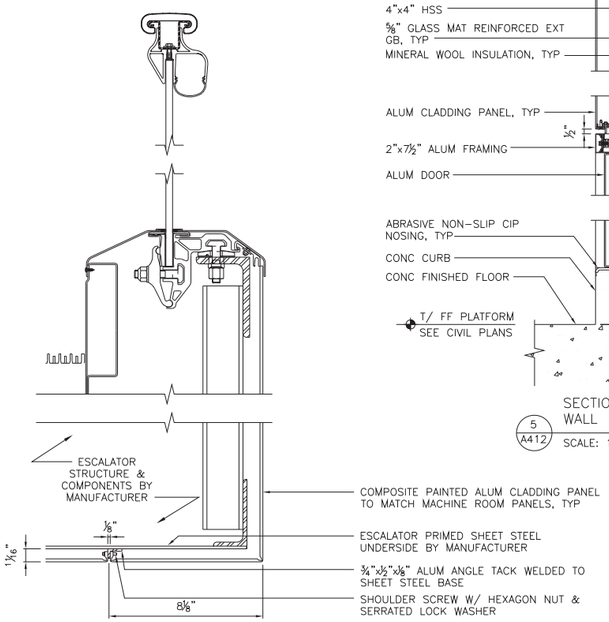
7 A412 DETAIL-MACHINE ROOM EAST WALL LOUVER

SCALE: 1½"=1'-0"



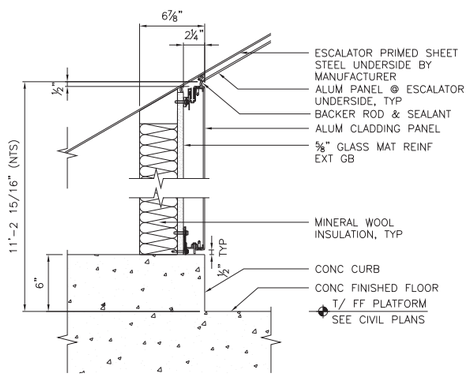
8 A412 DETAIL-JAMB CONDITION

SCALE: 1½"=1'-0"



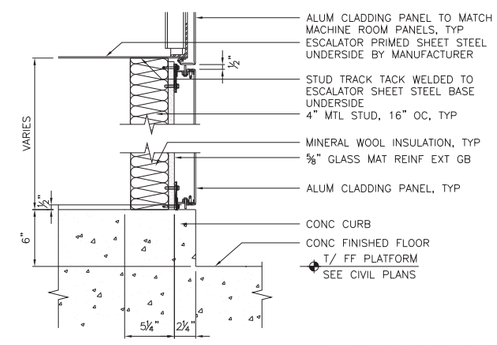
4 A412 SECTION DETAIL-ESCALATOR CLADDING

SCALE: 3"=1'-0"



9 A412 SECTION-ENCLOSURE WALL

SCALE: 1½"=1'-0"



10 A412 DETAIL-ENCLOSURE WALL @ CURB & ESCALATOR

SCALE: 1½"=1'-0"

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ESCALATOR DETAILS

SHEET A-412

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file= SCALE = 1½"=1'-0" U.N.O.

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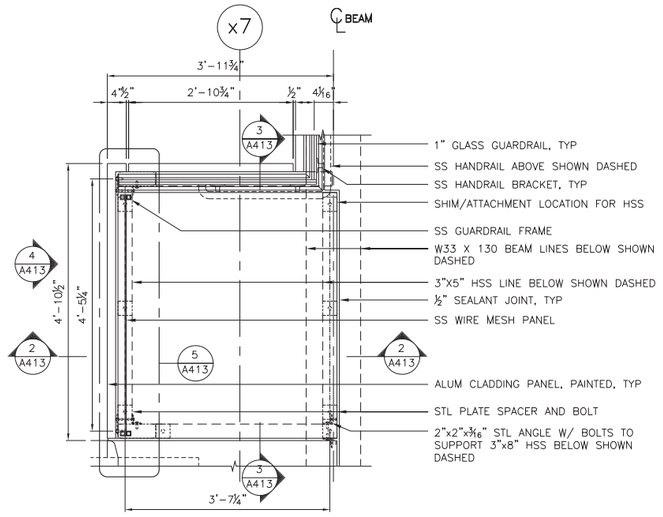
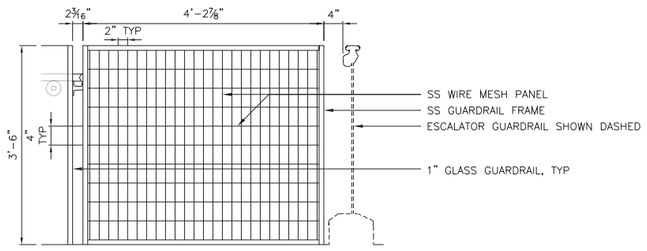


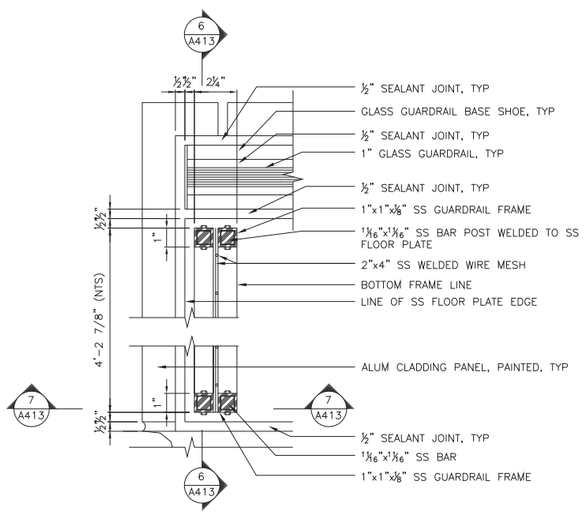
1 A413 PLAN-GUARDRAIL & FLOOR PLATE @ ESCALATOR ES2 (ES3 IDENTICAL)

SCALE: ¾"=1'-0"



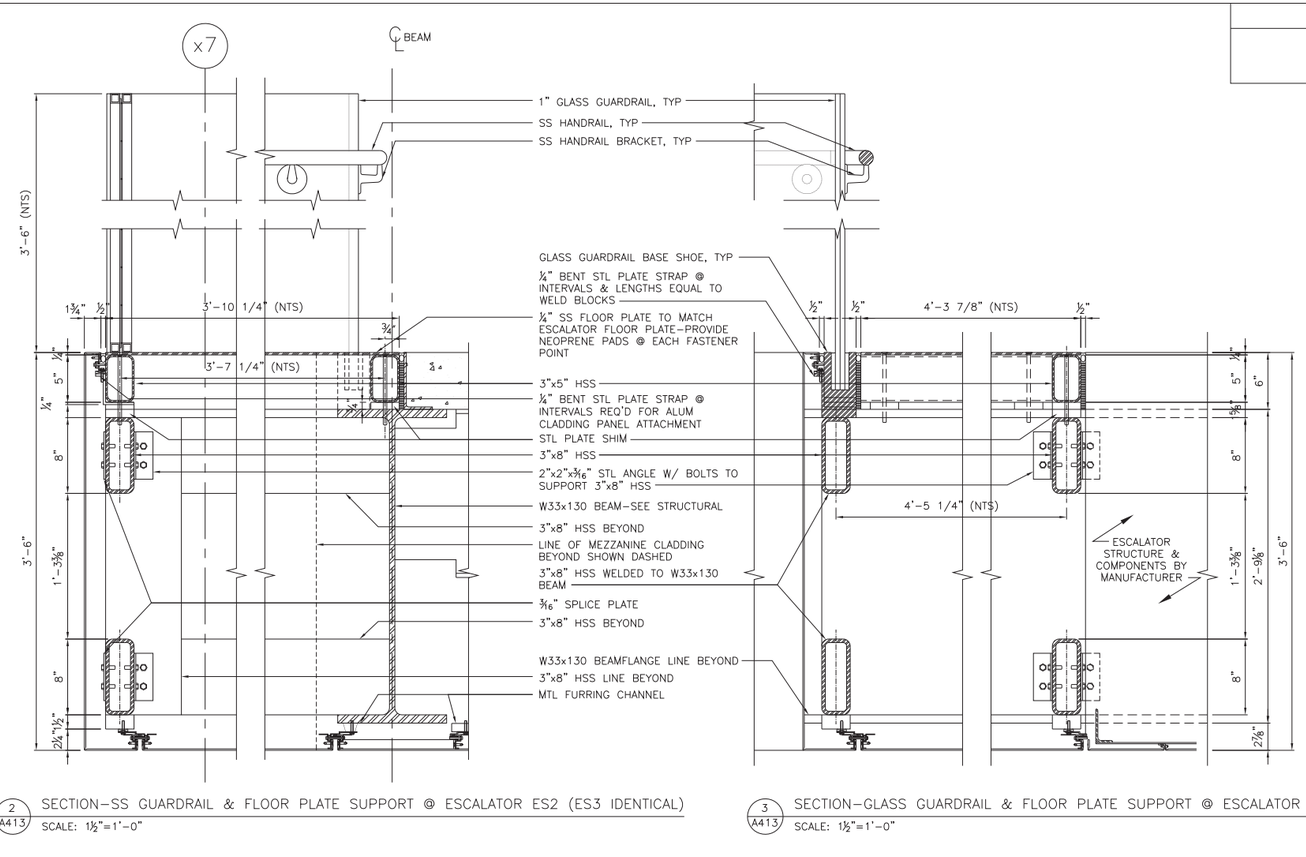
4 A413 ELEVATION-GUARDRAIL & FLOOR PLATE @ ESCALATOR ES2 (ES3 IDENTICAL)

SCALE: ¾"=1'-0"



5 A413 DETAIL-SS GUARDRAIL @ ESCALATOR ES2 (ES3 IDENTICAL)

SCALE: 3"=1'-0"

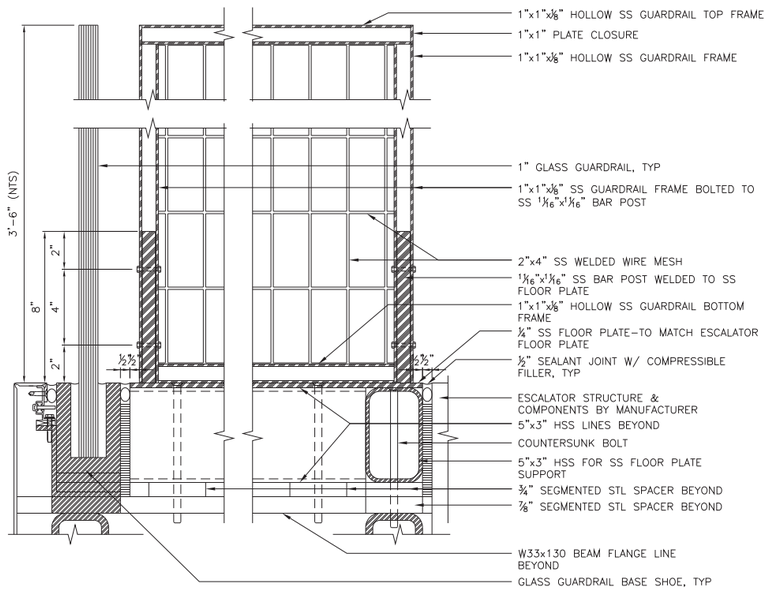


2 A413 SECTION-SS GUARDRAIL & FLOOR PLATE SUPPORT @ ESCALATOR ES2 (ES3 IDENTICAL)

SCALE: 1½"=1'-0"

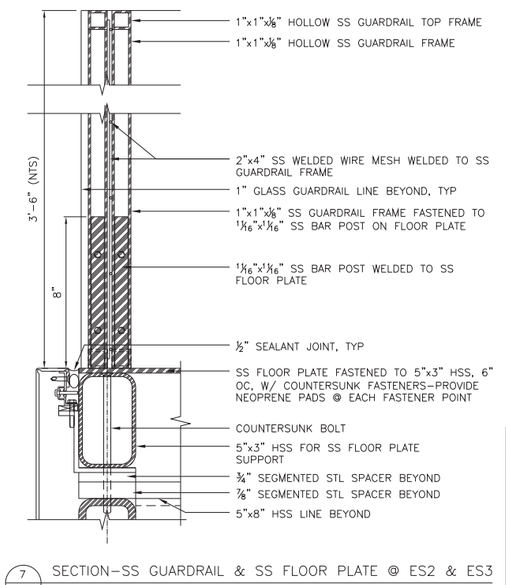
3 A413 SECTION-GLASS GUARDRAIL & FLOOR PLATE SUPPORT @ ESCALATOR ES2 (ES3 IDENTICAL)

SCALE: 1½"=1'-0"



6 A413 SECTION-SS GUARDRAIL & SS FLOOR PLATE CONNECTION @ ES2 & ES3

SCALE: 3"=1'-0"



7 A413 SECTION-SS GUARDRAIL & SS FLOOR PLATE @ ES2 & ES3

SCALE: 3"=1'-0"

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ESCALATOR GUARDRAIL DETAILS

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SCALE =1½"=1'-0" U.N.O.

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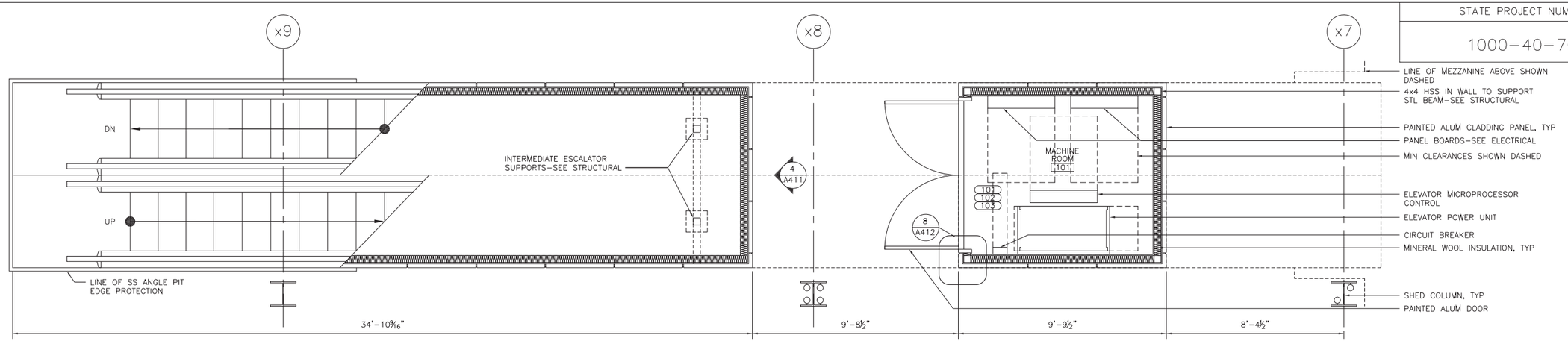
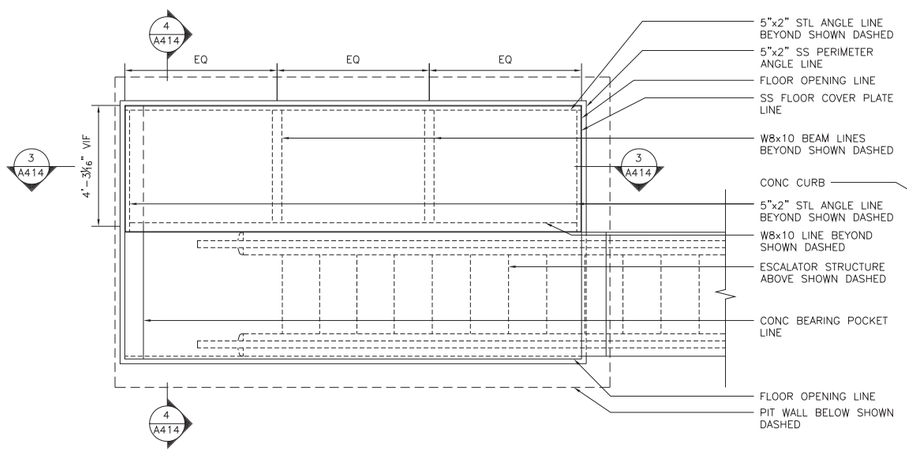


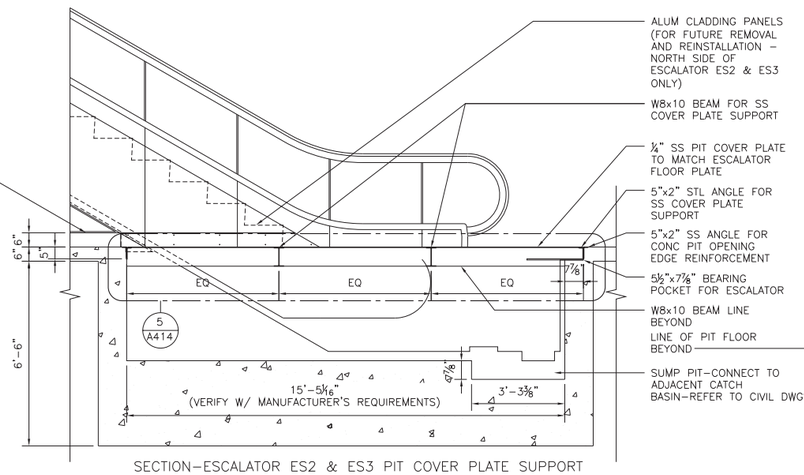
1 A414 PLAN-ESCALATOR PAIR ES1

SCALE: ⅜"=1'-0"



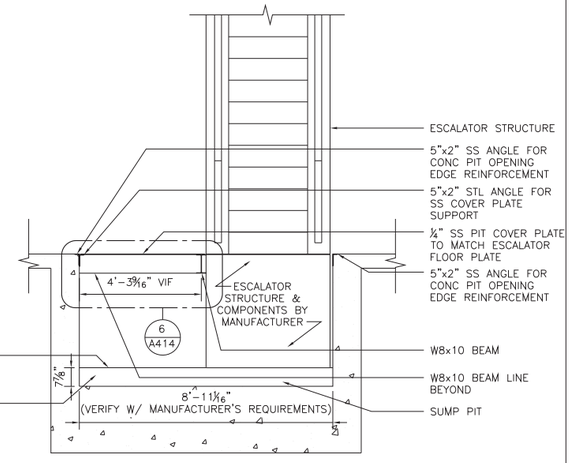
2 A414 PLAN-ESCALATOR ES2 & ES3 PIT COVER PLATE

SCALE: ⅜"=1'-0"



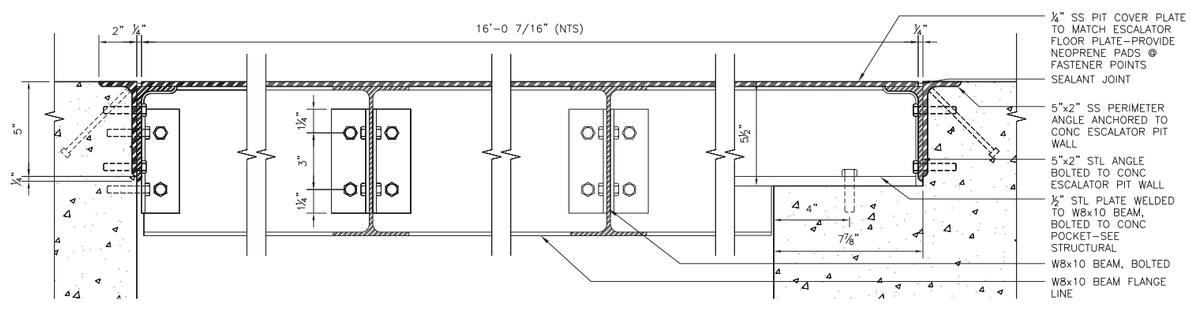
3 A414 SECTION-ESCALATOR ES2 & ES3 PIT COVER PLATE SUPPORT (SEE ESCALATOR ES3 SECTION ON A-411A FOR REVISED SLOPE)

SCALE: ⅜"=1'-0"



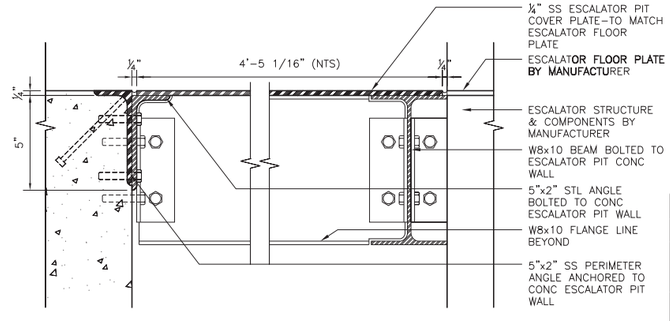
4 A414 SECTION-ESCALATOR ES2 & ES3 PIT COVER PLATE SUPPORT

SCALE: ⅜"=1'-0"



5 A414 DETAIL-ESCALATOR PIT EDGE REINFORCEMENT AND COVER PLATE SUPPORT

SCALE: 3"=1'-0"



6 A414 DETAIL-ESCALATOR PIT EDGE REINFORCEMENT AND COVER PLATE SUPPORT

SCALE: 3"=1'-0"

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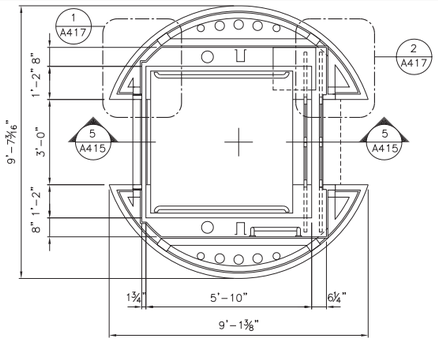
ESCALATOR ES1 PLAN & ES2 & ES3 PIT DETAILS

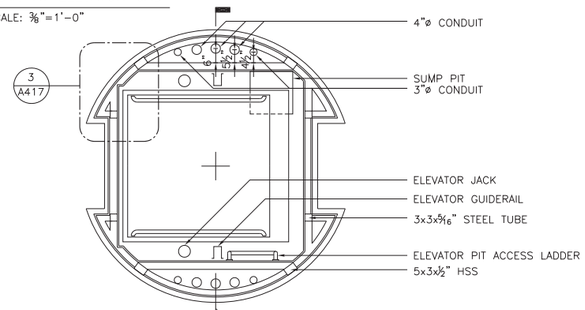
SHEET A-414

157

file= SCALE = ⅜"=1'-0" U.N.O.



1 A415 PLAN–AT ELEVATOR CAB
SCALE: ⅜"=1'-0"



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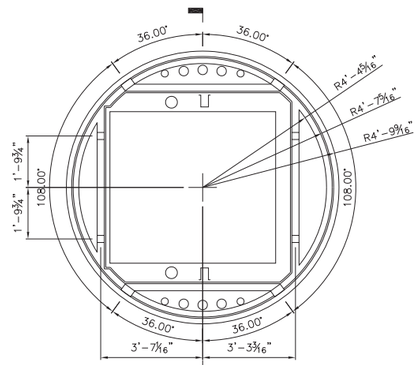
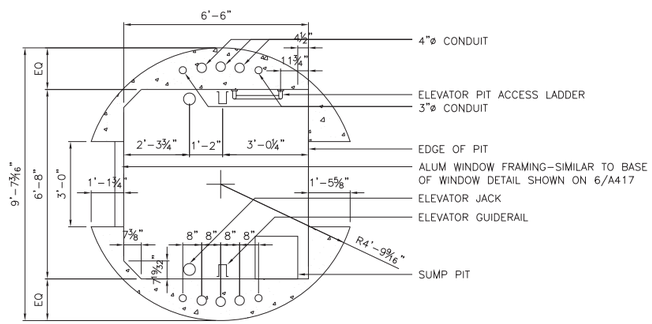
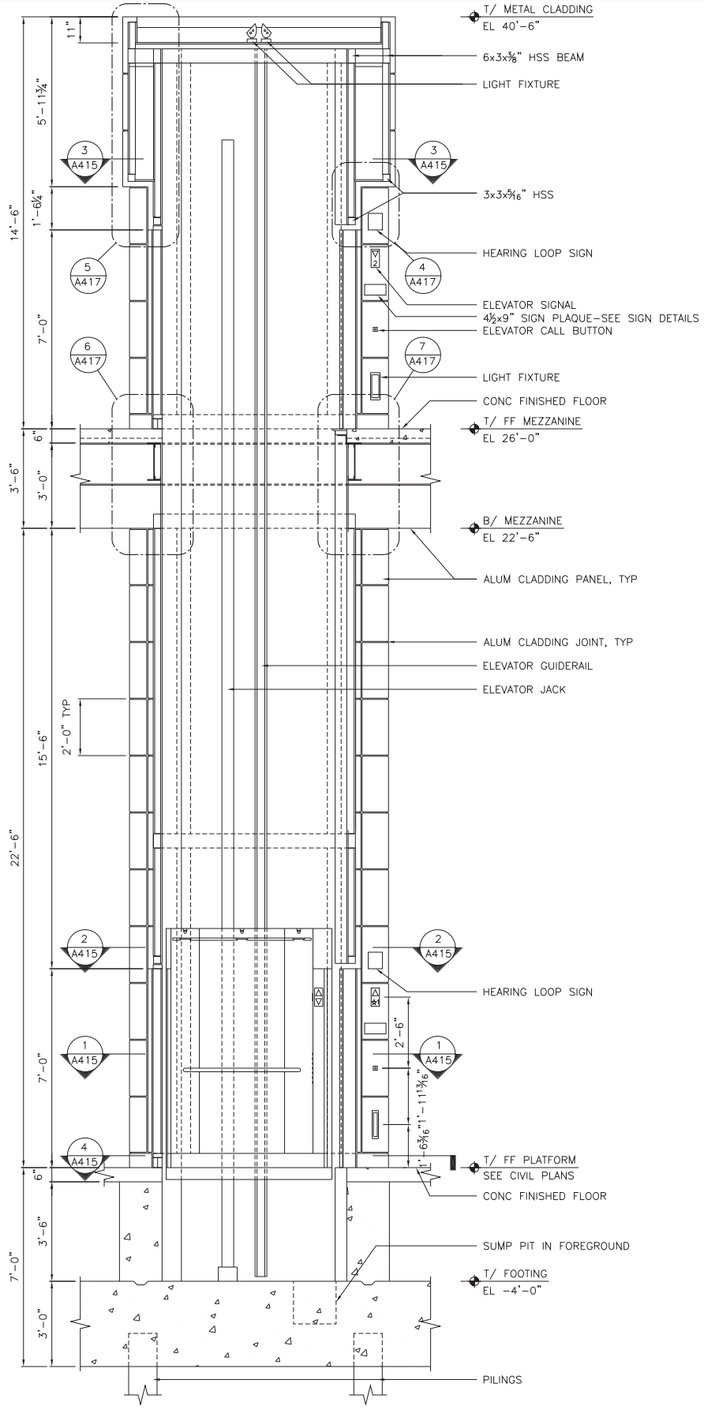


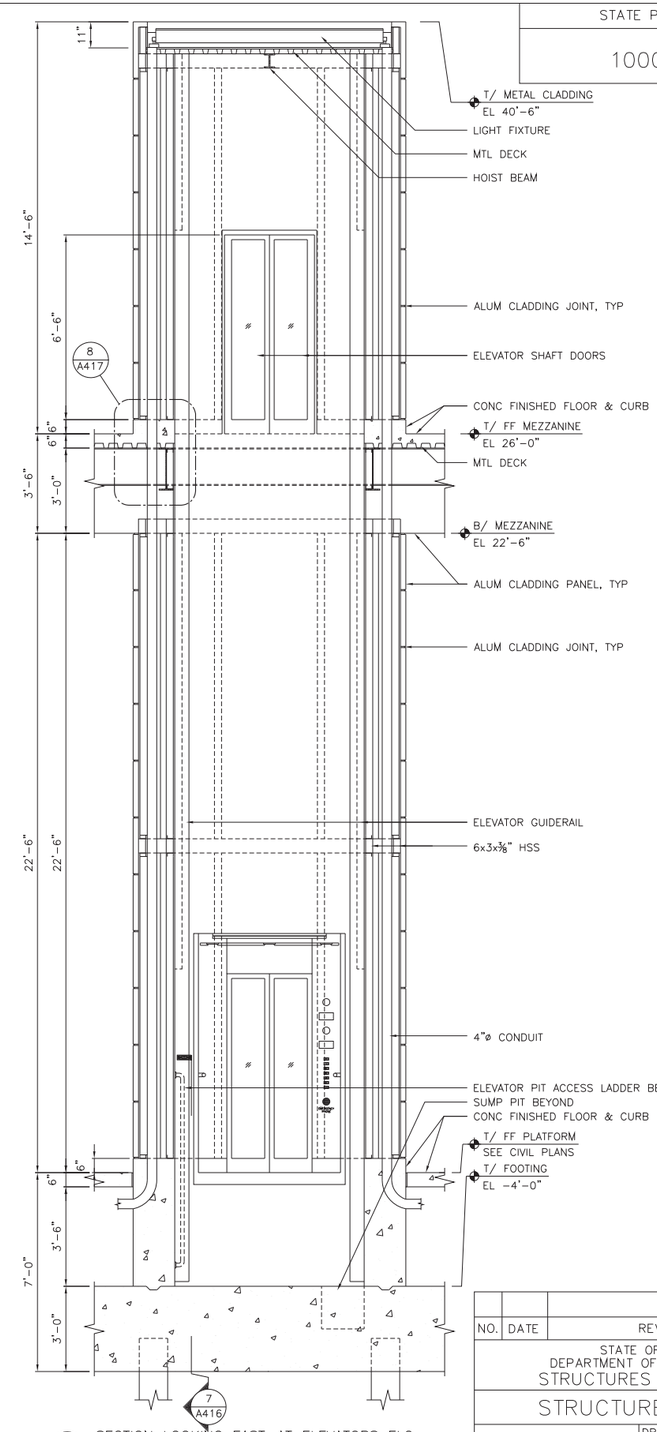
3 A415 PLAN–AT ELEVATOR SHAFT
SCALE: ⅜"=1'-0"



4 A415 PLAN–AT ELEVATOR PIT CURB
SCALE: ⅜"=1'-0"



5 A415 SECTION LOOKING NORTH–AT ELEVATORS EL2
SCALE: ⅜"=1'-0"



6 A415 SECTION LOOKING EAST–AT ELEVATORS EL2
SCALE: ⅜"=1'-0"

STATE PROJECT NUMBER
1000–40–70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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ELEVATOR PLANS & SECTIONS

SHEET A–415

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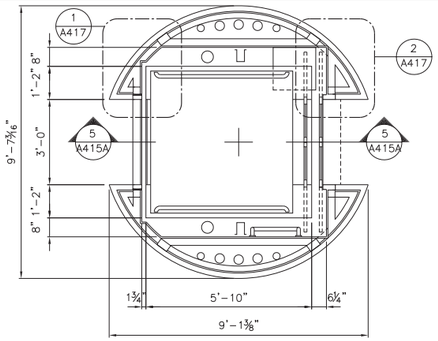
file= SCALE = ⅜"=1'-0"

8

8



1 A415A PLAN–AT ELEVATOR CAB
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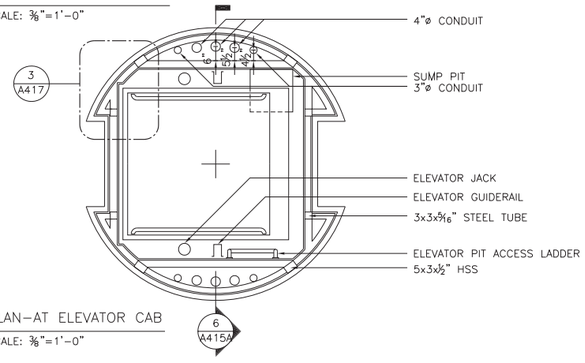

2 A415A PLAN–AT ELEVATOR CAB
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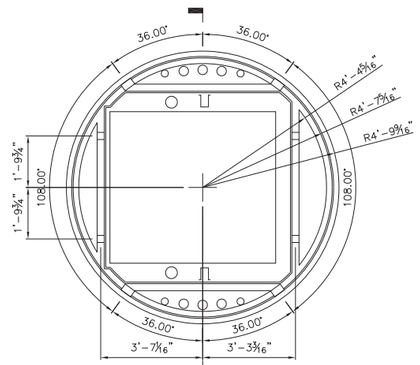
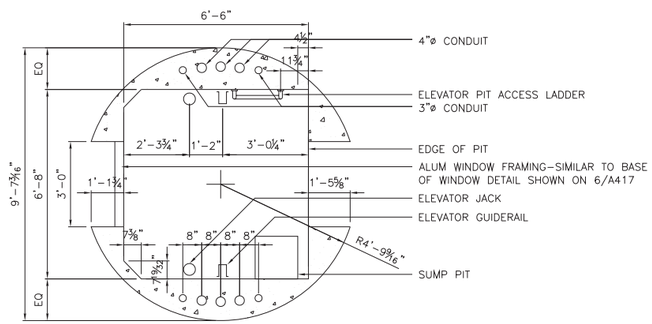


3 A415A PLAN–AT ELEVATOR SHAFT
SCALE: ⅜"=1'-0"
1 A416A



4 A415A PLAN–AT ELEVATOR PIT CURB
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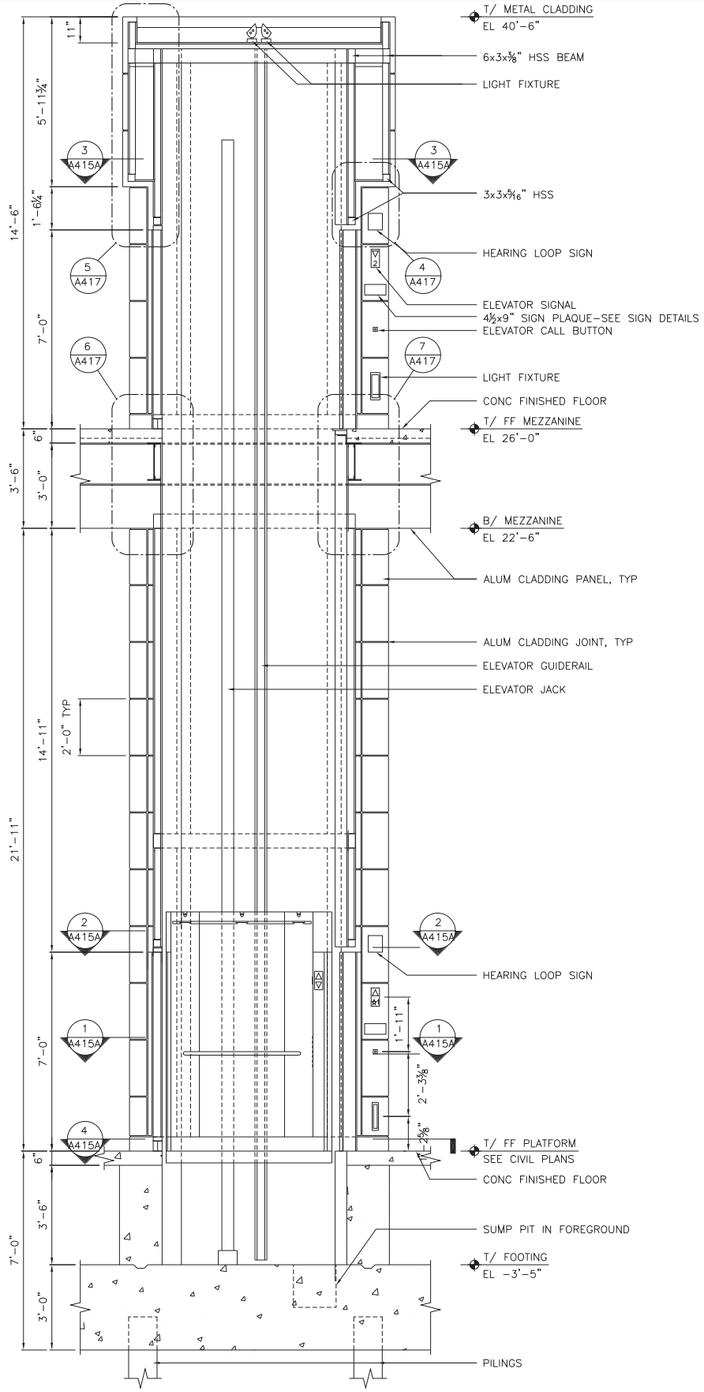

5 A415A SECTION LOOKING NORTH–AT ELEVATORS EL3
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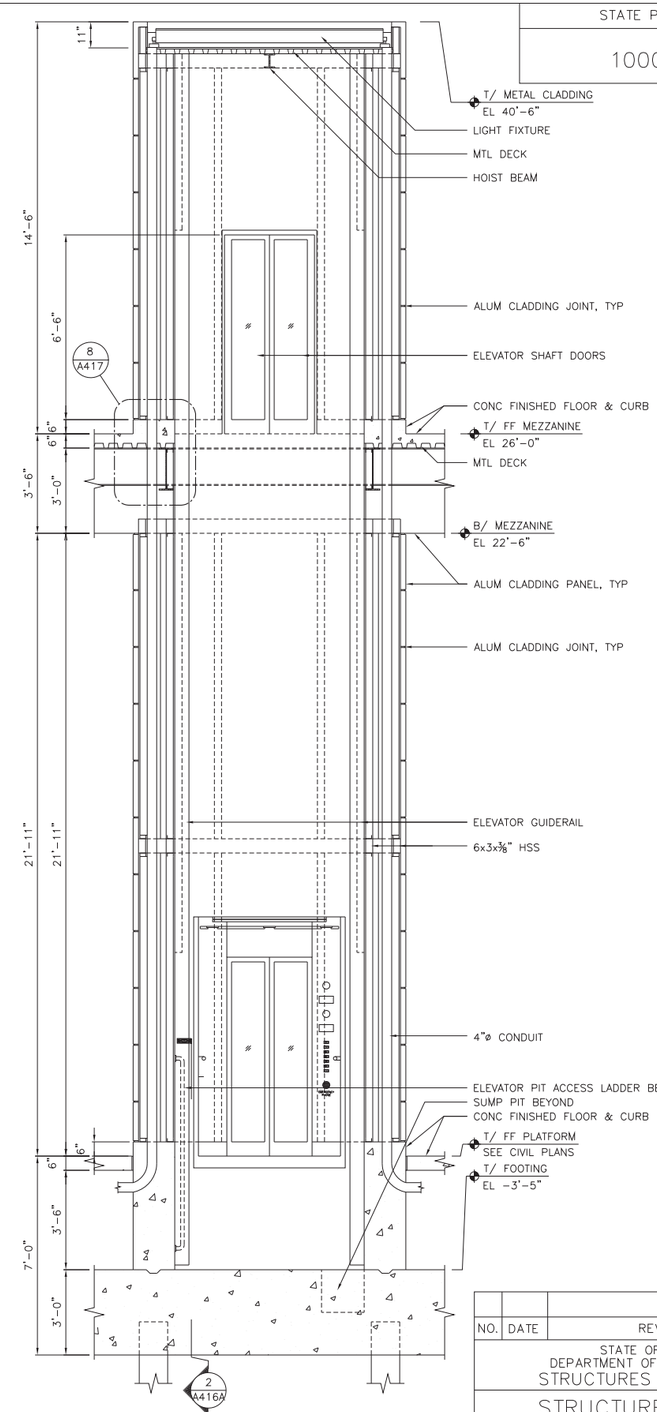

6 A415A SECTION LOOKING EAST–AT ELEVATORS EL3
SCALE: ⅜"=1'-0"

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ELEVATOR PLANS & SECTIONS

SHEET A–415A

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file= SCALE = ⅜"=1'-0"

STATE PROJECT NUMBER

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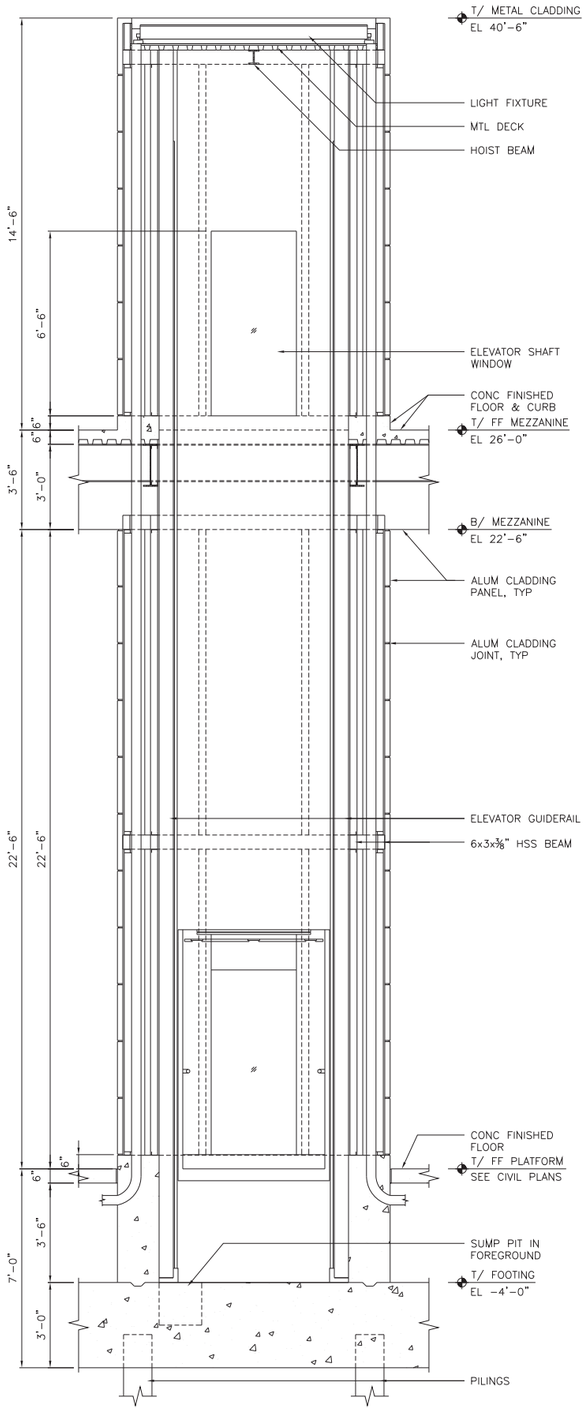

1 A416 SECTION LOOKING WEST-AT ELEVATORS EL2

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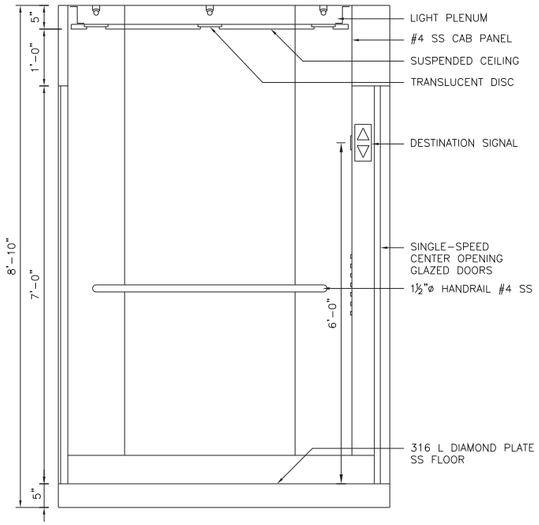

2 A416 ELEVATOR CAB ELEVATION-2

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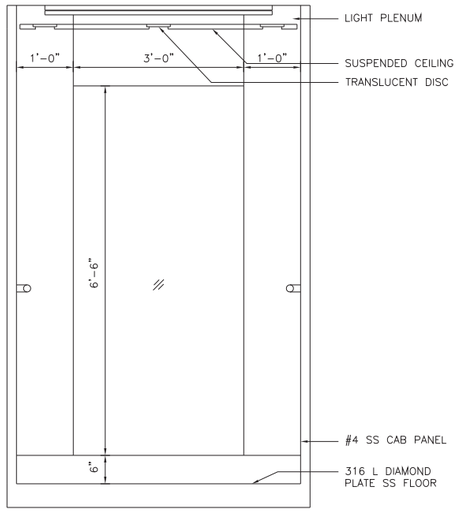

3 A416 ELEVATOR CAB ELEVATION-3

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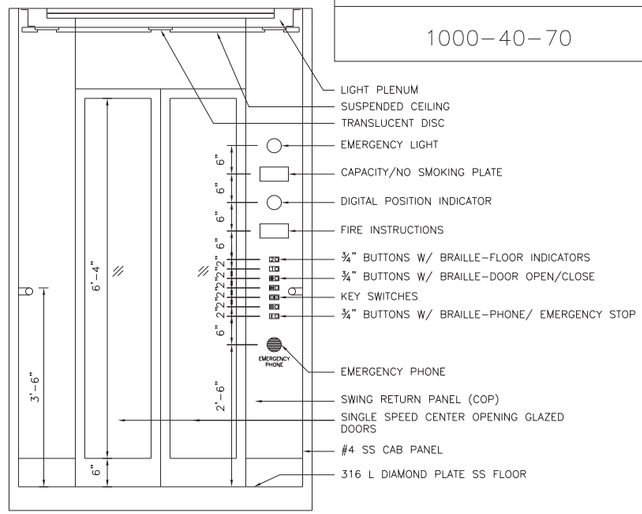
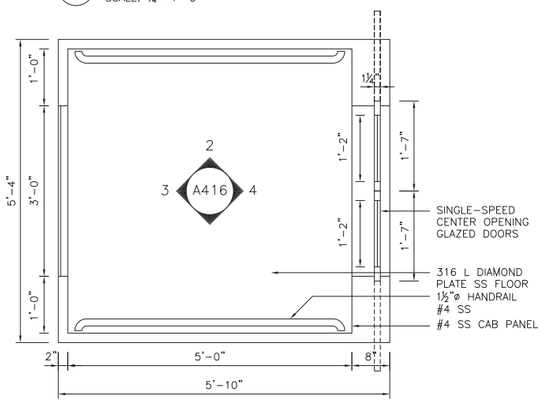


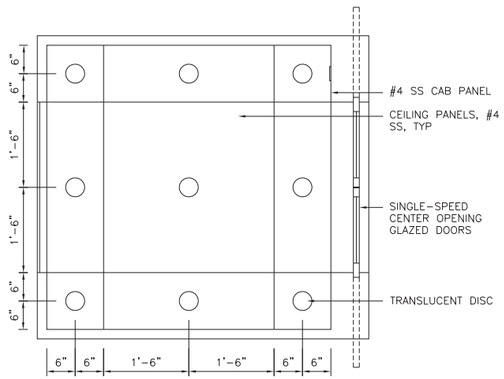
4 A416 ELEVATOR CAB ELEVATION-4

SCALE: ¾"=1'-0"



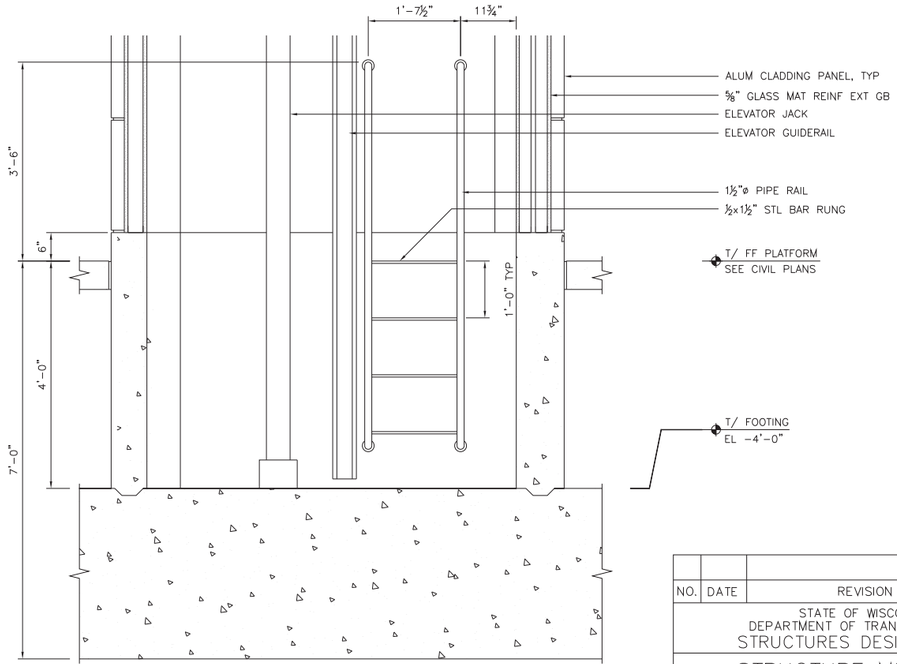
5 A416 ELEVATOR CAB PLAN

SCALE: ¾"=1'-0"



6 A416 ELEVATOR CAB REFLECTED CEILING PLAN

SCALE: ¾"=1'-0"



7 A416 SECTION LOOKING SOUTH-AT ELEVATORS EL2 PIT

SCALE: ¾"=1'-0"

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STATE OF WISCONSIN
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ELEVATOR PLANS & SECTIONS

SHEET A-416

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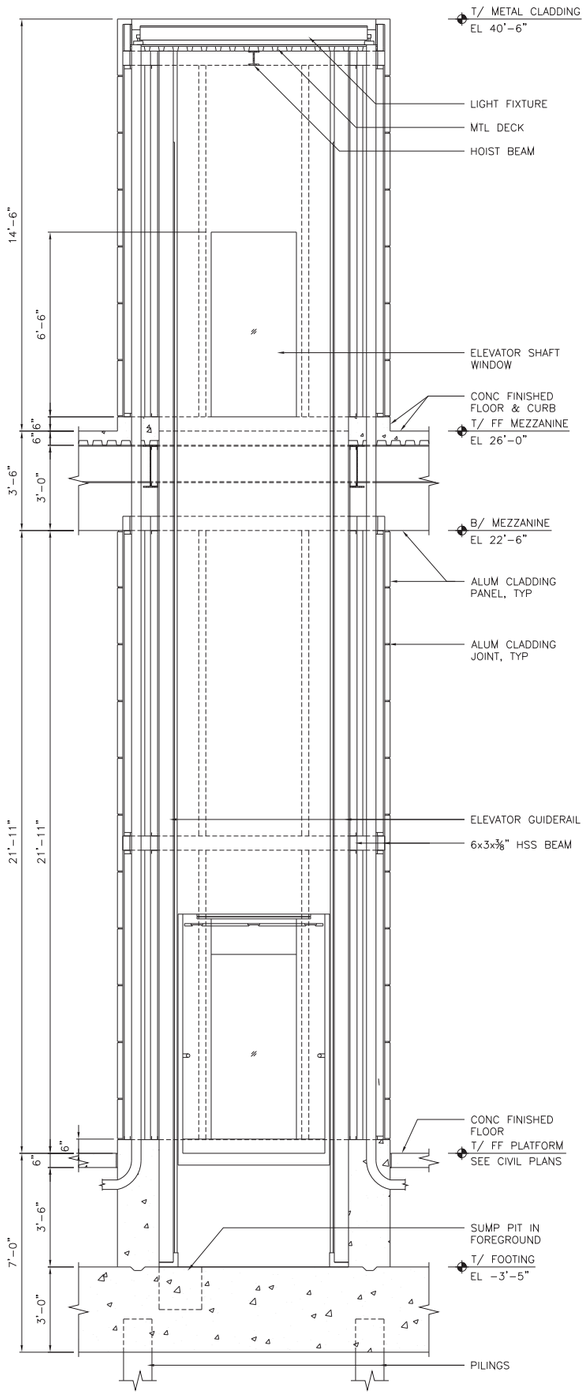

1 / A416A SECTION LOOKING WEST–AT ELEVATORS EL3

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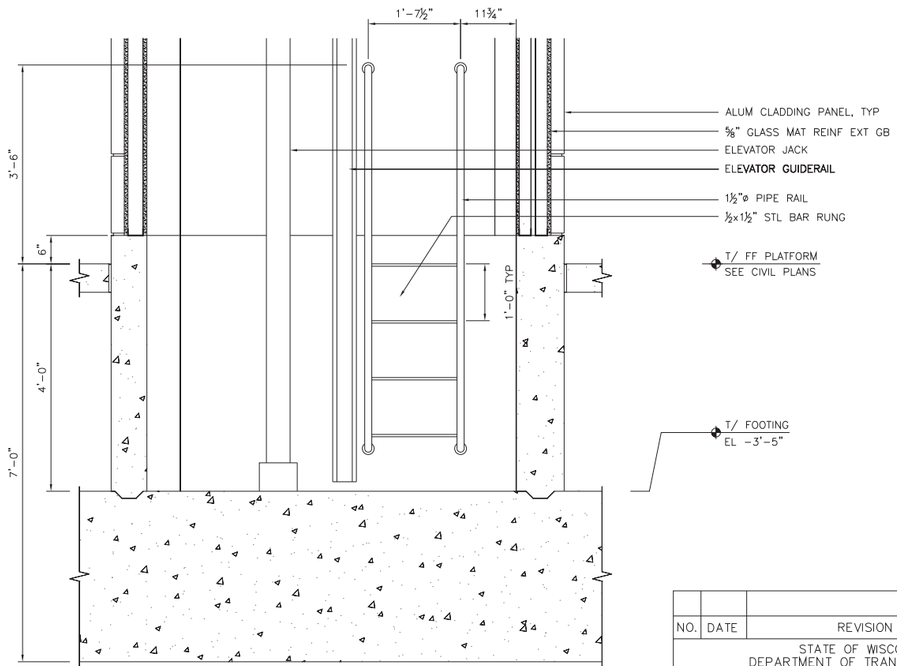

2 / A416A SECTION LOOKING SOUTH–AT ELEVATORS EL3 PIT

SCALE: ¾"=1'–0"

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SHEET A–416A

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file= SCALE = ¾"=1'–0" U.N.O.

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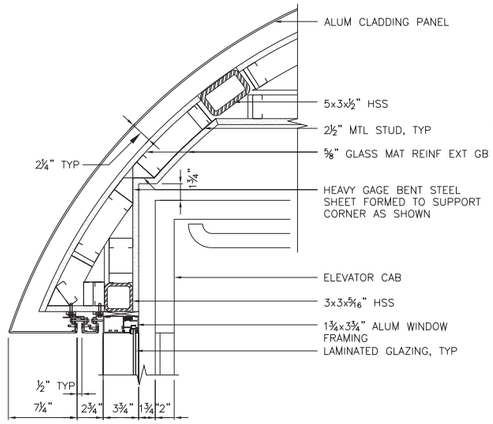
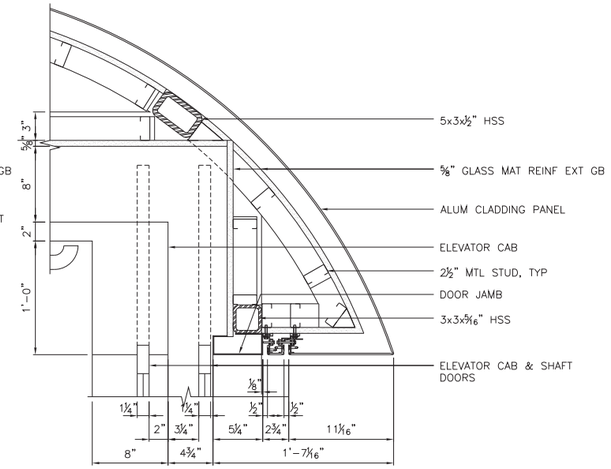
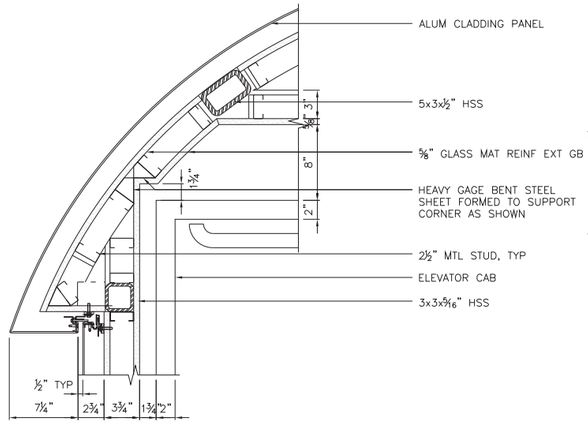


1 A417 DETAIL–JAMB CONDITION
SCALE: 1½"=1'–0"



2 A417 DETAIL–JAMB CONDITION
SCALE: 1½"=1'–0"



3 A417 DETAIL–INSIDE CORNER
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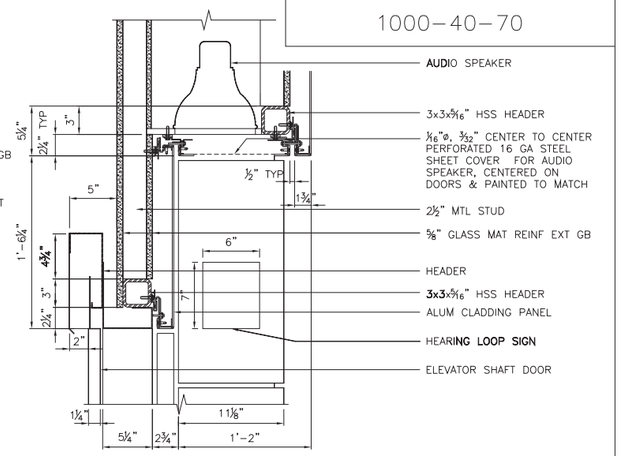
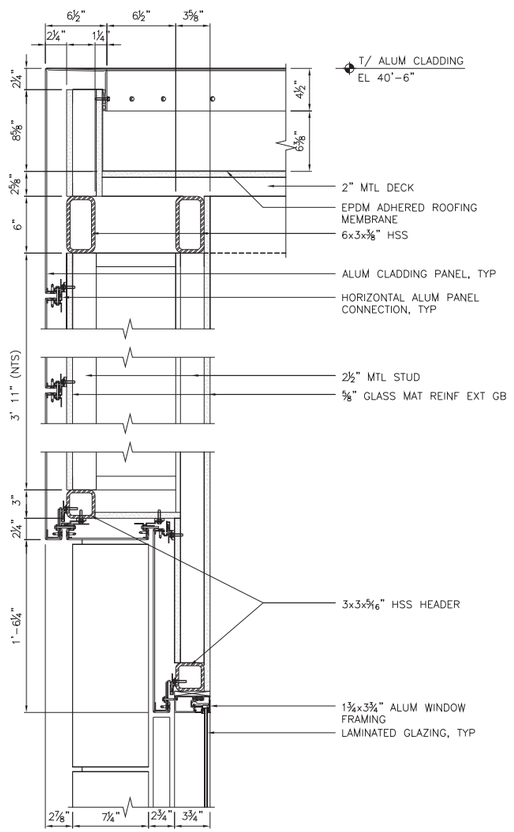
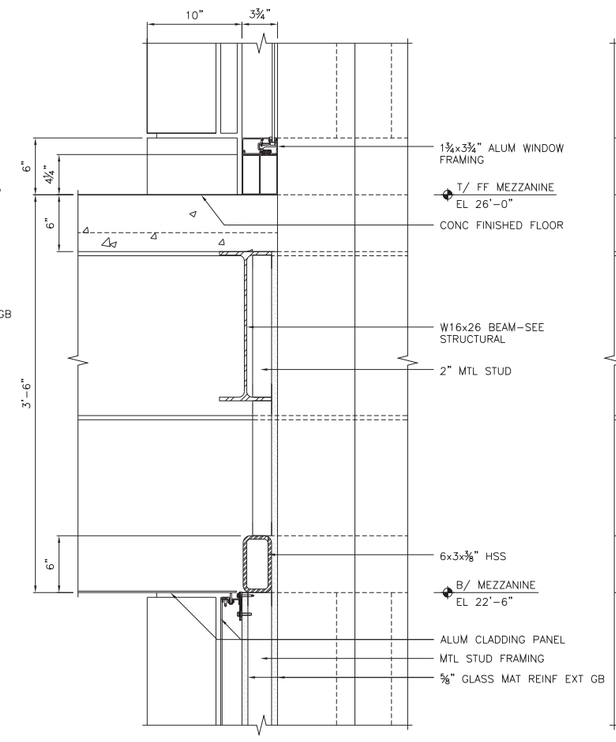


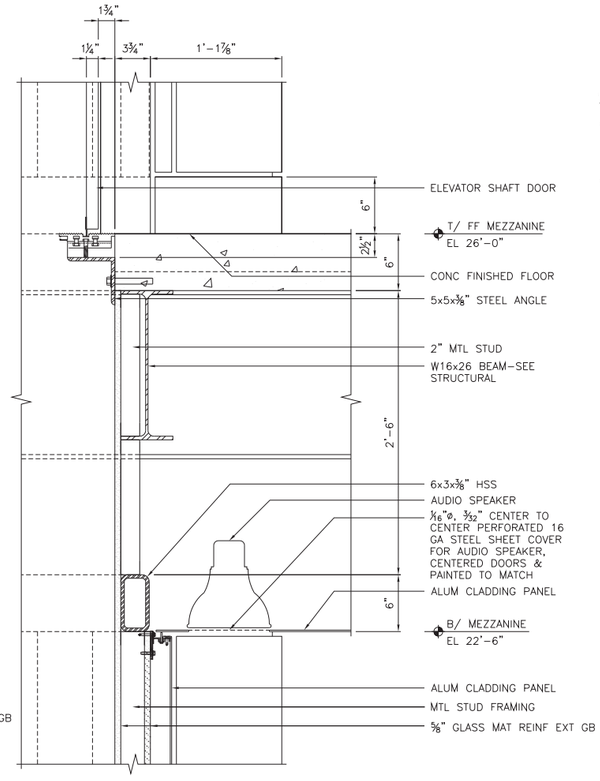
4 A417 DETAIL–HEAD CONDITION
SCALE: 1½"=1'–0"



5 A417 DETAIL–SOFFIT & PARAPET JOINTS
SCALE: 1½"=1'–0"



6 A417 DETAIL–ELEVATOR SHAFT @ MEZZANINE
SCALE: 1½"=1'–0"



7 A417 DETAIL–ELEVATOR SILL @ MEZZANINE
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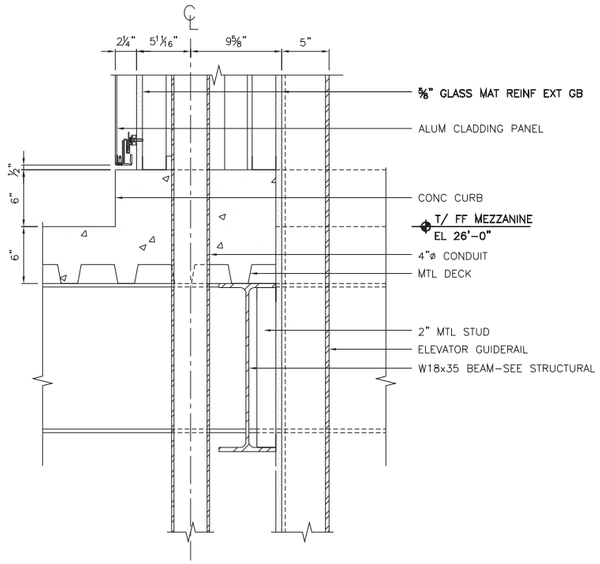

8 A417 DETAIL–CURB @ MEZZANINE
SCALE: 1½"=1'–0"

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ELEVATOR DETAILS

SHEET A–417

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file= SCALE = 1½" = 1'–0"

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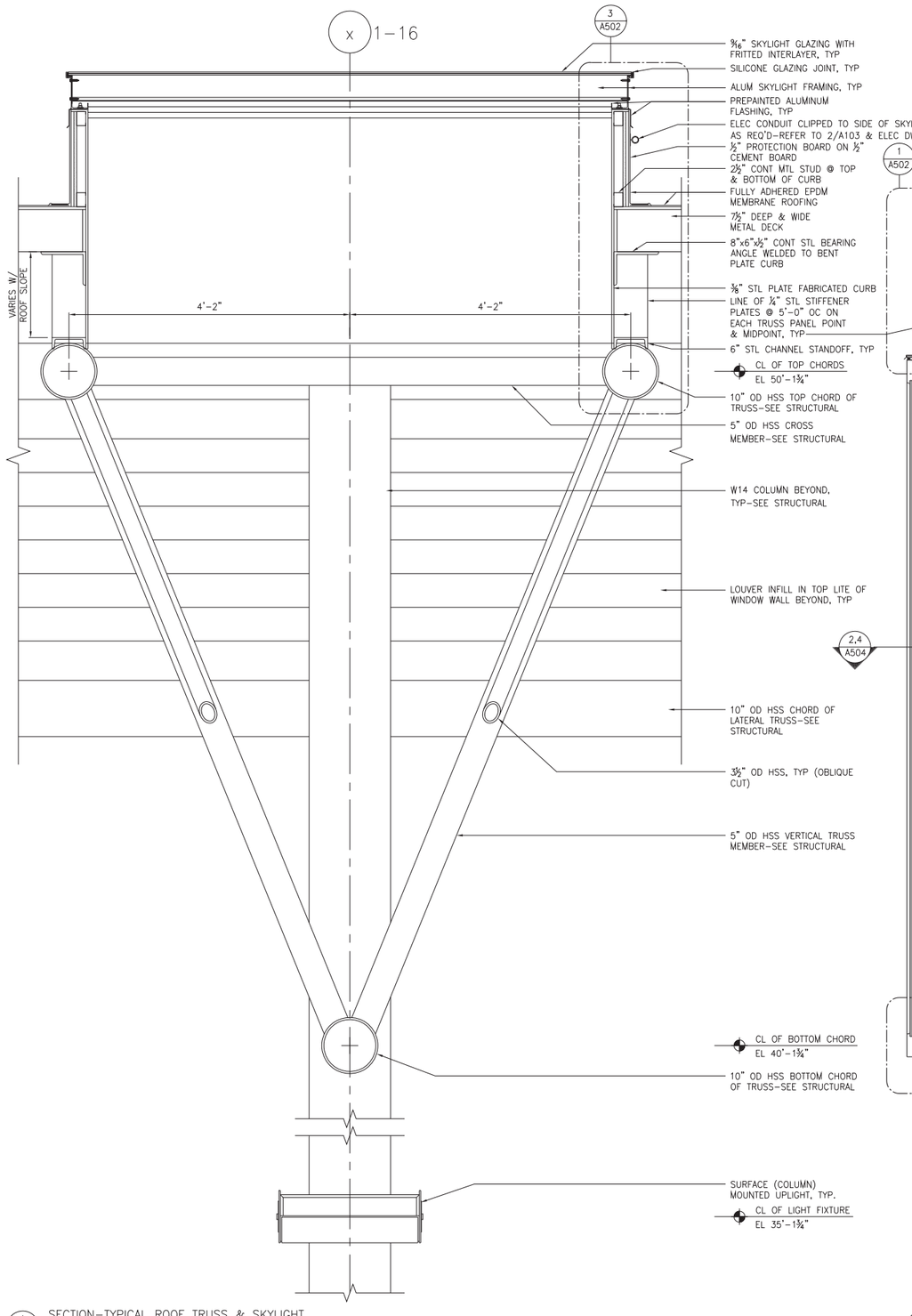

1 A501 SECTION-TYPICAL ROOF TRUSS & SKYLIGHT
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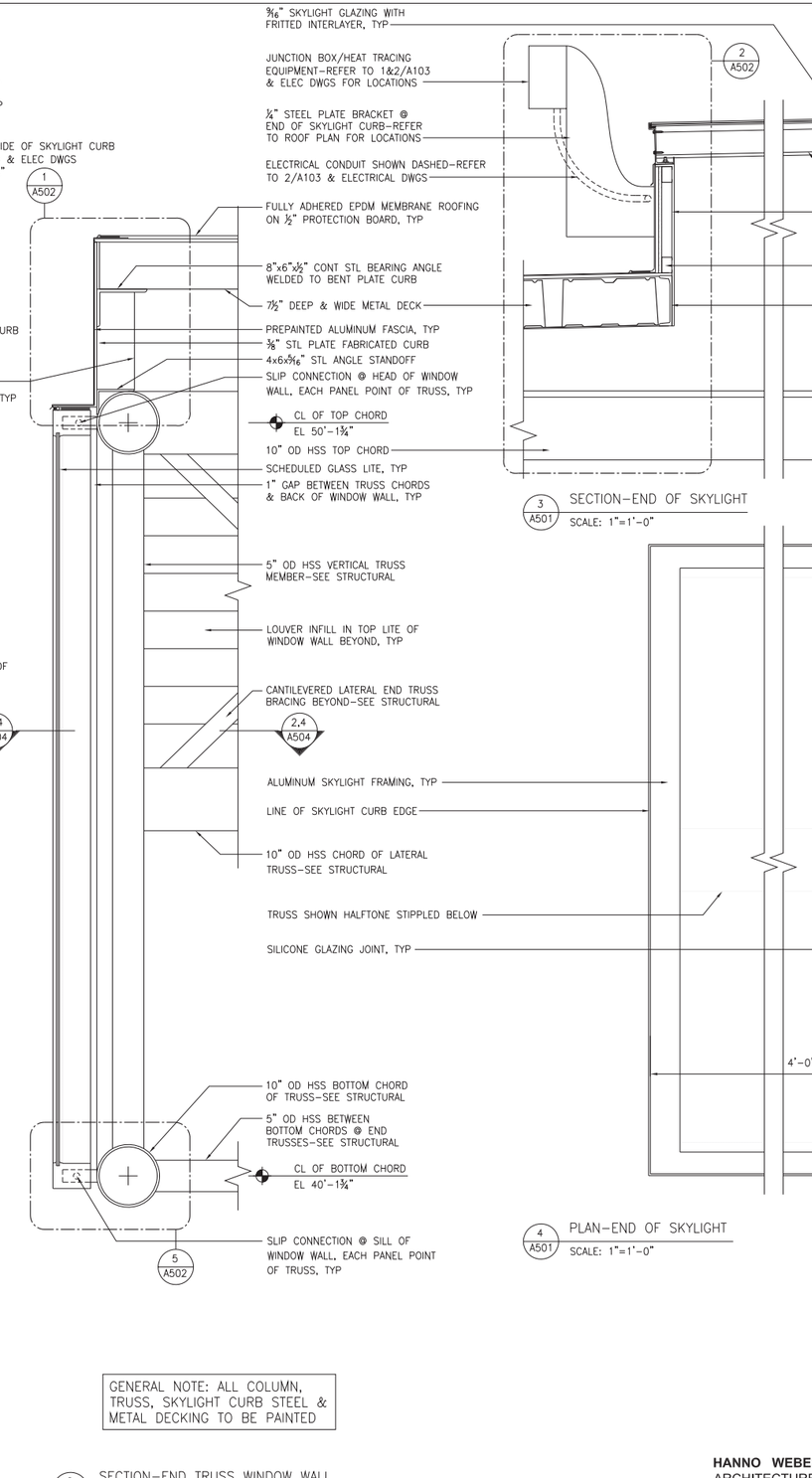
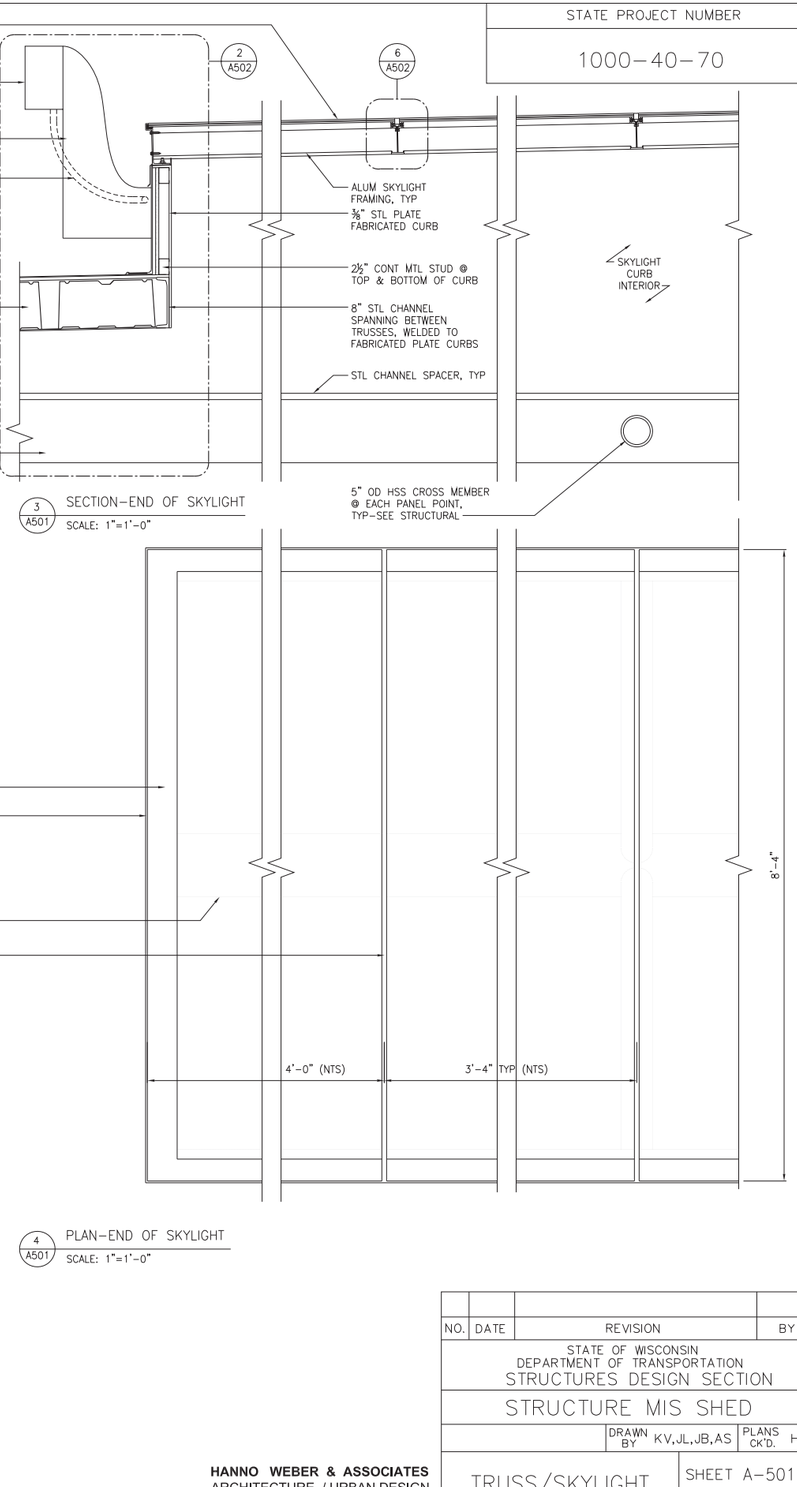


2 A501 SECTION-END TRUSS WINDOW WALL
SCALE: 1"=1'-0"



3 A501 SECTION-END OF SKYLIGHT
SCALE: 1"=1'-0"

4 A501 PLAN-END OF SKYLIGHT
SCALE: 1"=1'-0"

GENERAL NOTE: ALL COLUMN, TRUSS, SKYLIGHT CURB STEEL & METAL DECKING TO BE PAINTED

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TRUSS/SKYLIGHT DETAILS

SHEET A-501

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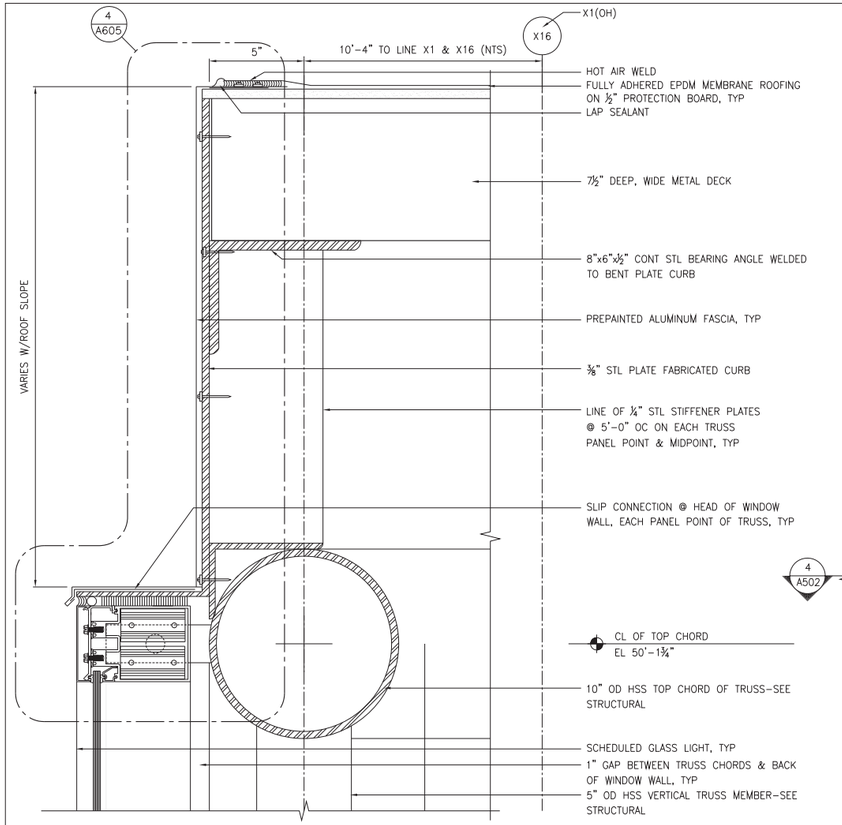
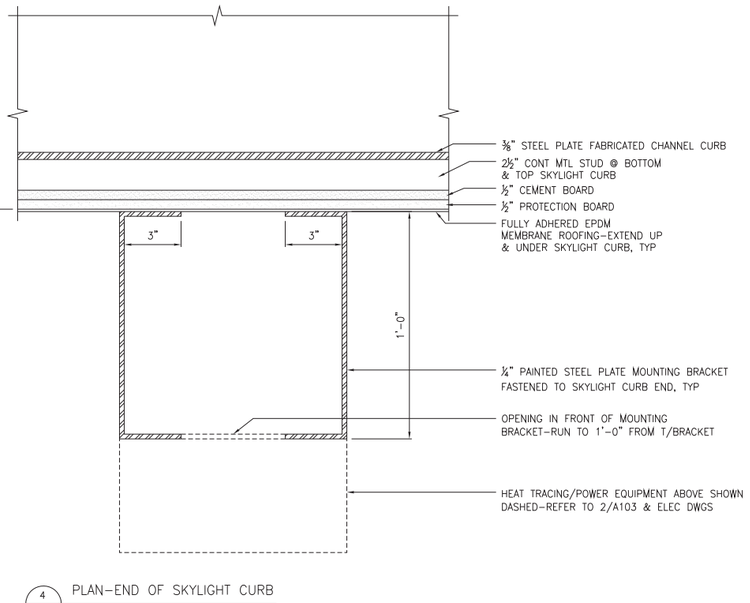
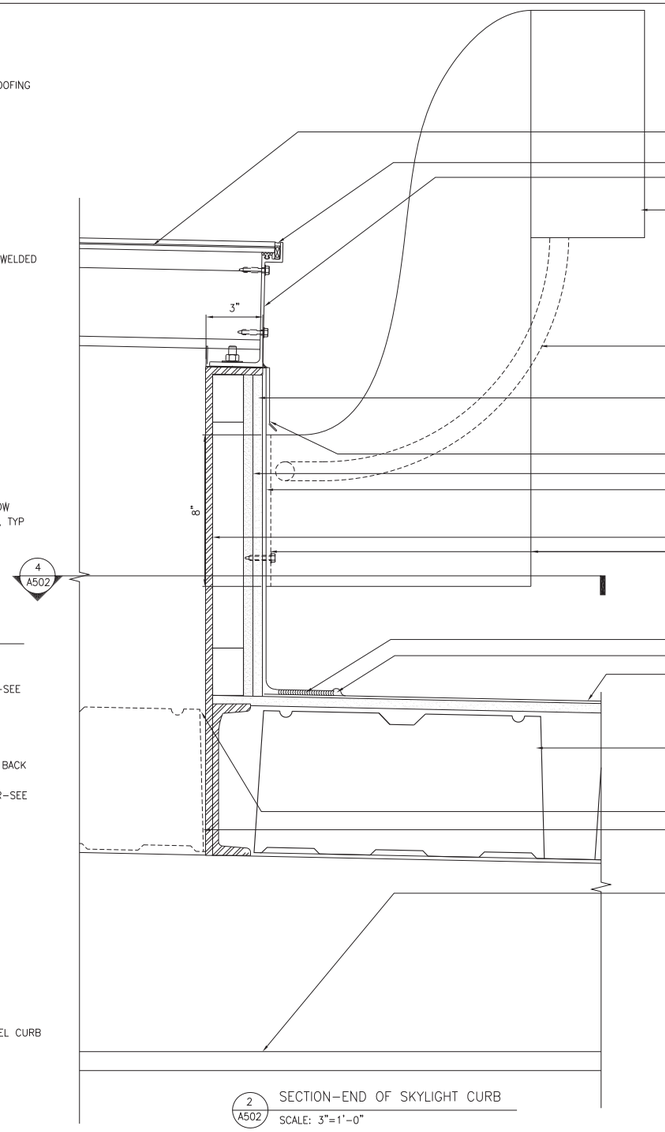


1 A502 DETAIL-ROOF & WINDOW WALL @ END TRUSS
SCALE: 3"=1'-0"



4 A502 PLAN-END OF SKYLIGHT CURB
SCALE: 3"=1'-0"



2 A502 SECTION-END OF SKYLIGHT CURB
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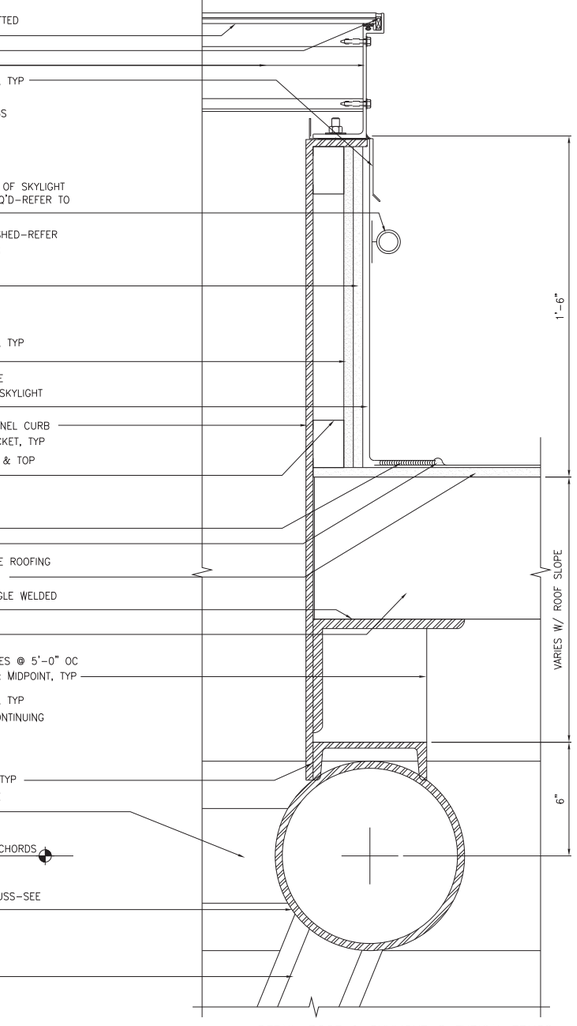
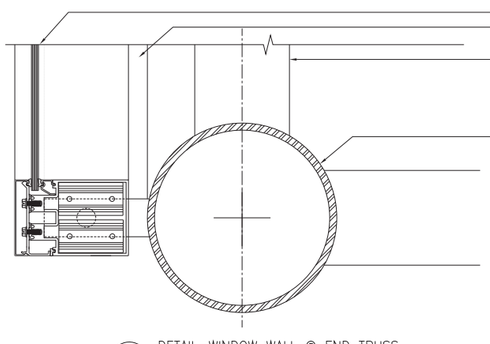


3 A502 DETAIL-ROOF & SKYLIGHT @ TYPICAL TRUSS
SCALE: 3"=1'-0"



5 A502 DETAIL-WINDOW WALL @ END TRUSS
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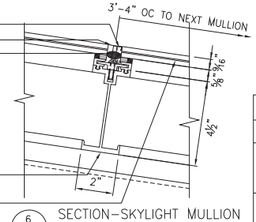

6 A502 SECTION-SKYLIGHT MULLION
SCALE: 3"=1'-0"

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TRUSS/SKYLIGHT DETAILS

SHEET A-502

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file= SCALE = 3"= 1'-0"

STATE PROJECT NUMBER

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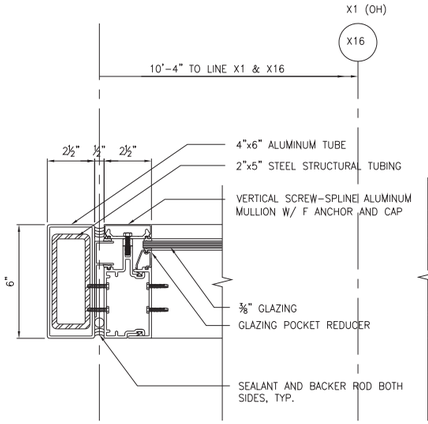

1 A503 DETAIL-END MULLION
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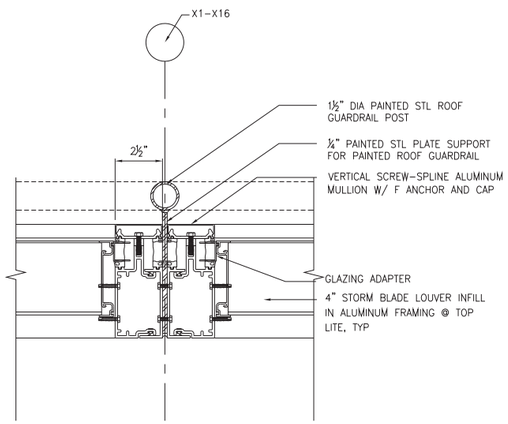
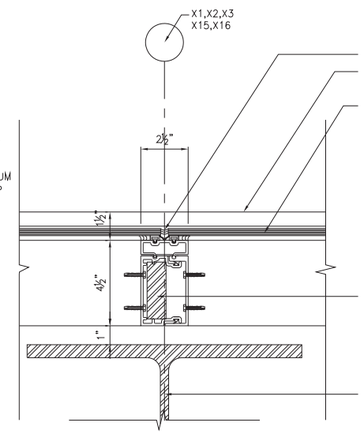
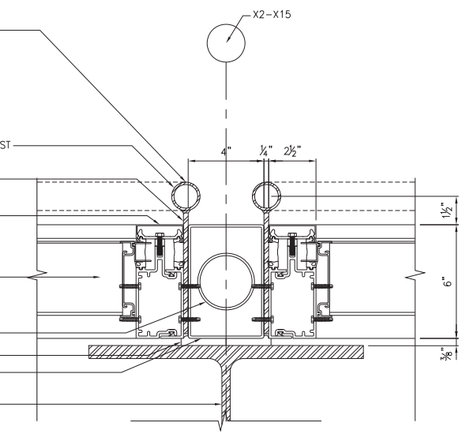


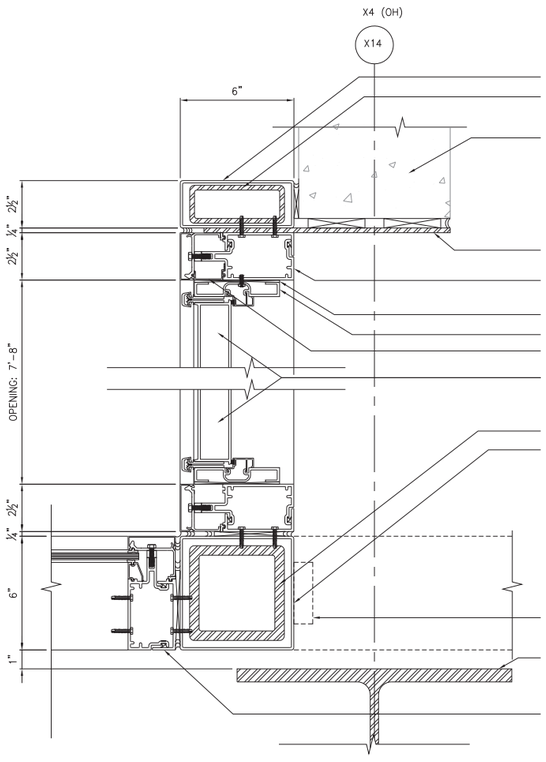
2 A503 DETAIL-TYP. DBL VERTICAL LOUVER MULLION & ROOF GUARDRAIL CONNECTION @ NORTH TOP LITE
SCALE: 3"=1'-0"



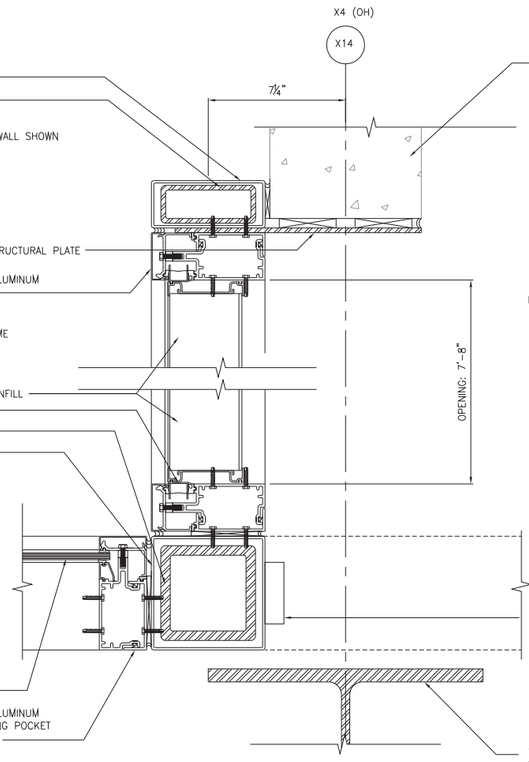
3 A503 DETAIL-TYP. VERTICAL MULLION W/ SILICONE JOINT GLAZING
SCALE: 3"=1'-0"



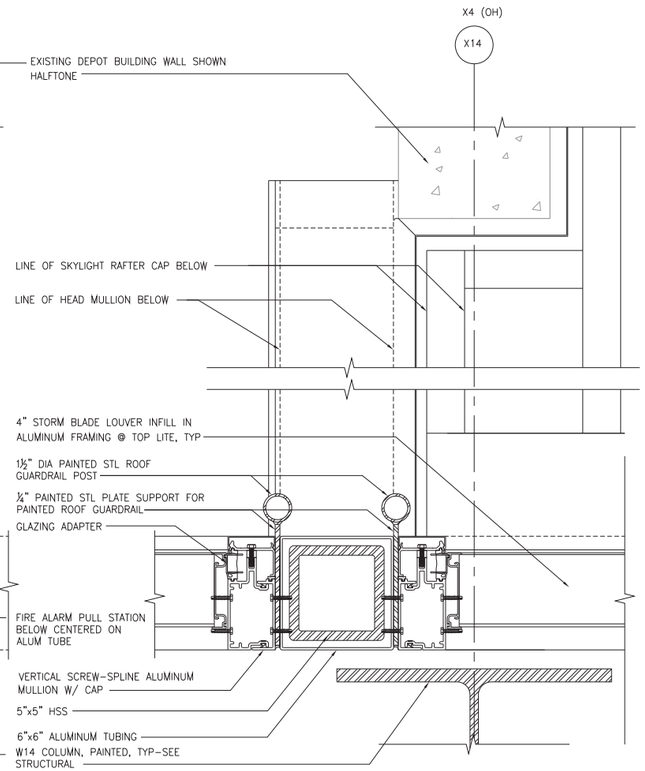
4 A503 DETAIL-TYP. DBL VERTICAL LOUVER MULLION & ROOF GUARDRAIL CONNECTION @ SOUTH TOP LITE
SCALE: 3"=1'-0"



5 A503 DETAIL-DOOR JAMB @ WEST/EAST LOUVER WALL
SCALE: 3"=1'-0"



6 A503 DETAIL-INSIDE CORNER & CONNECTION TO EXISTING DEPOT BUILDING FIN @ WEST/EAST LOUVER WALL
SCALE: 3"=1'-0"



7 A503 DETAIL-TOP OF WEST/EAST LOUVER WALL
SCALE: 3"=1'-0"

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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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WINDOW WALL/ LOUVER DETAILS

SHEET A-503

165

file= SCALE = 3"= 1'-0"

STATE PROJECT NUMBER

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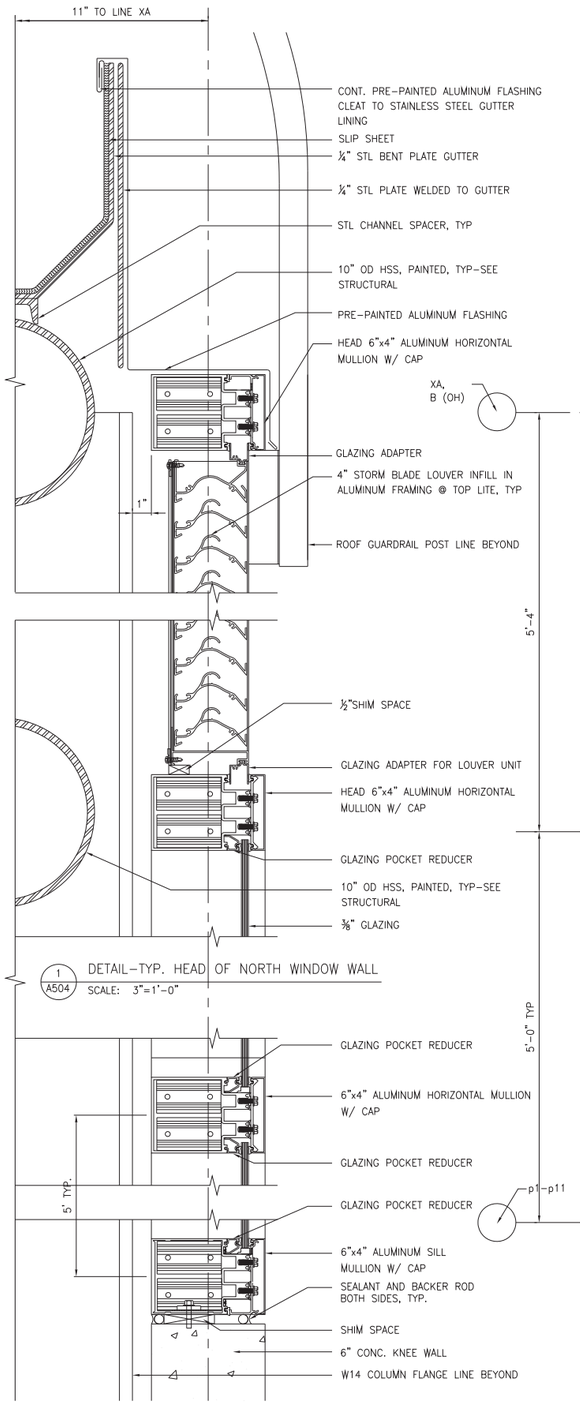
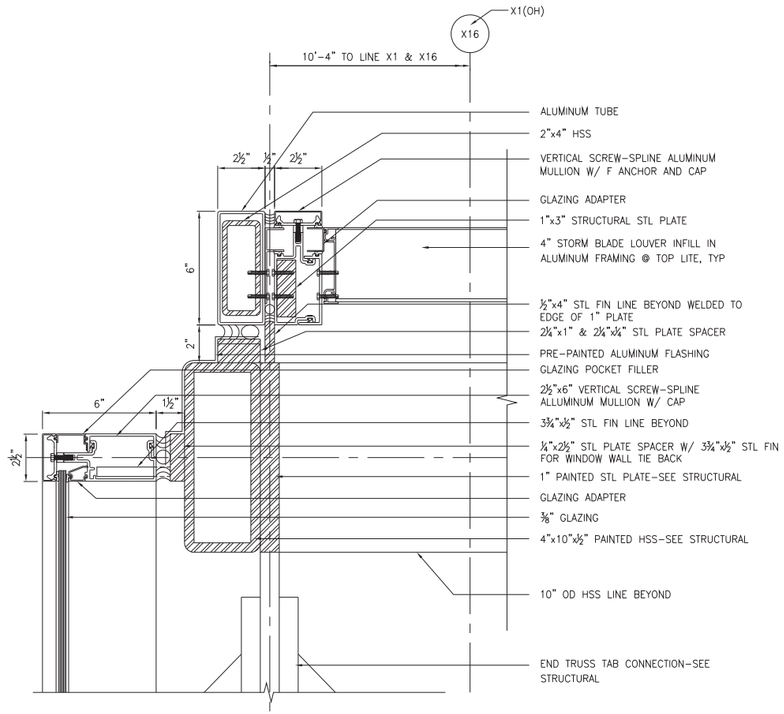
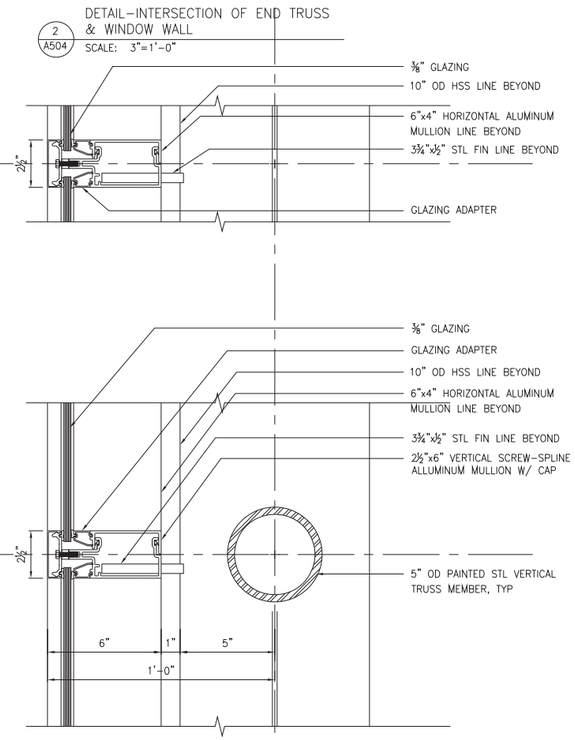


1 A504 DETAIL-TYP. HEAD OF NORTH WINDOW WALL
SCALE: 3"=1'-0"

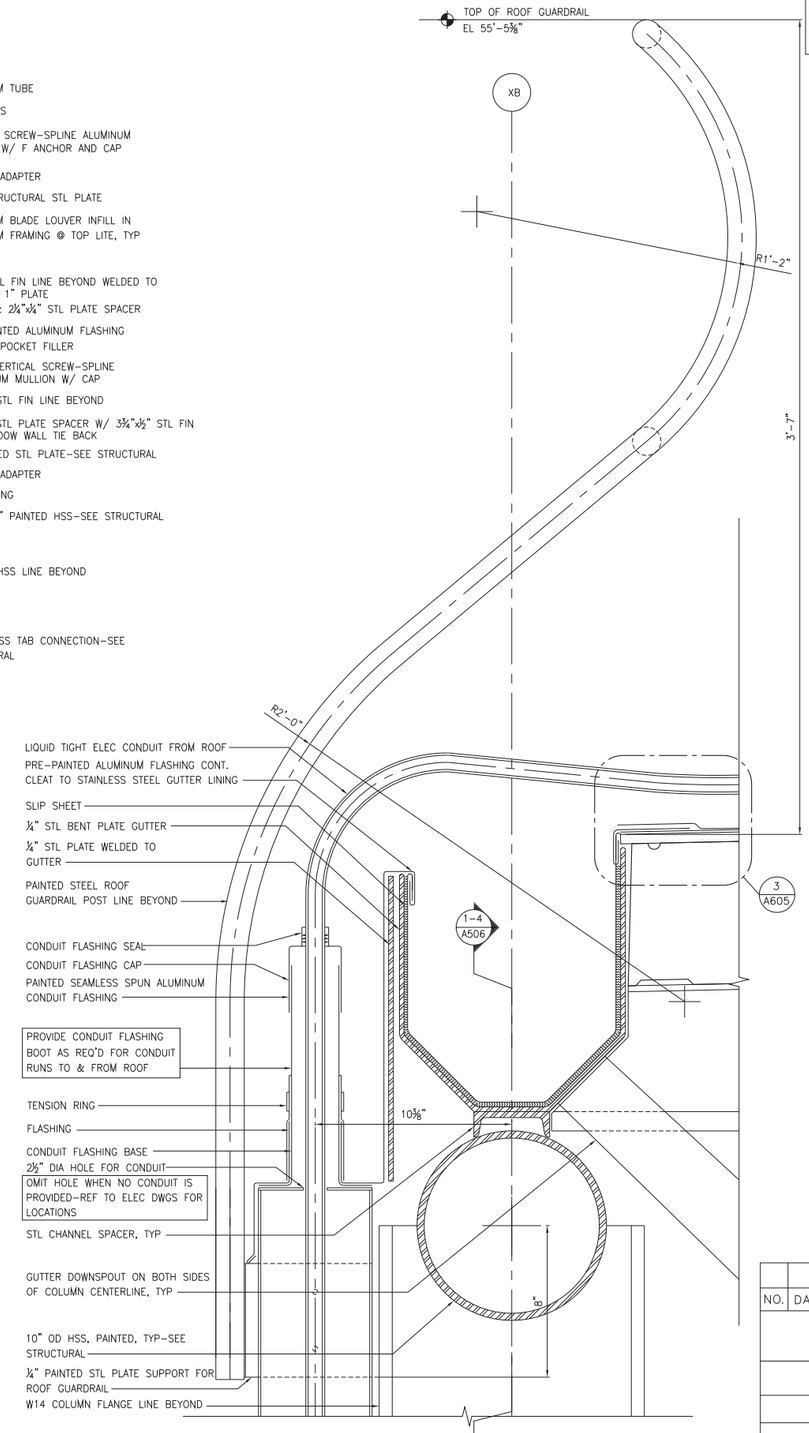
3 A504 DETAIL-TYP. SILL & HORIZONTAL MULLION OF NORTH WINDOW WALL
SCALE: 3"=1'-0"



2 A504 DETAIL-INTERSECTION OF END TRUSS & WINDOW WALL
SCALE: 3"=1'-0"



4 A504 DETAIL-TYPICAL END TRUSS WINDOW WALL VERTICAL MULLION
SCALE: 3"=1'-0"



5 A504 DETAIL-CONDUIT FLASHING & ROOF GUARDRAIL@ SOUTH WALL
SCALE: 3"=1'-0"

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WINDOW WALL/ LOUVER DETAILS

SHEET A-504

166

file=
SCALE = 3"=1'-0"

STATE PROJECT NUMBER

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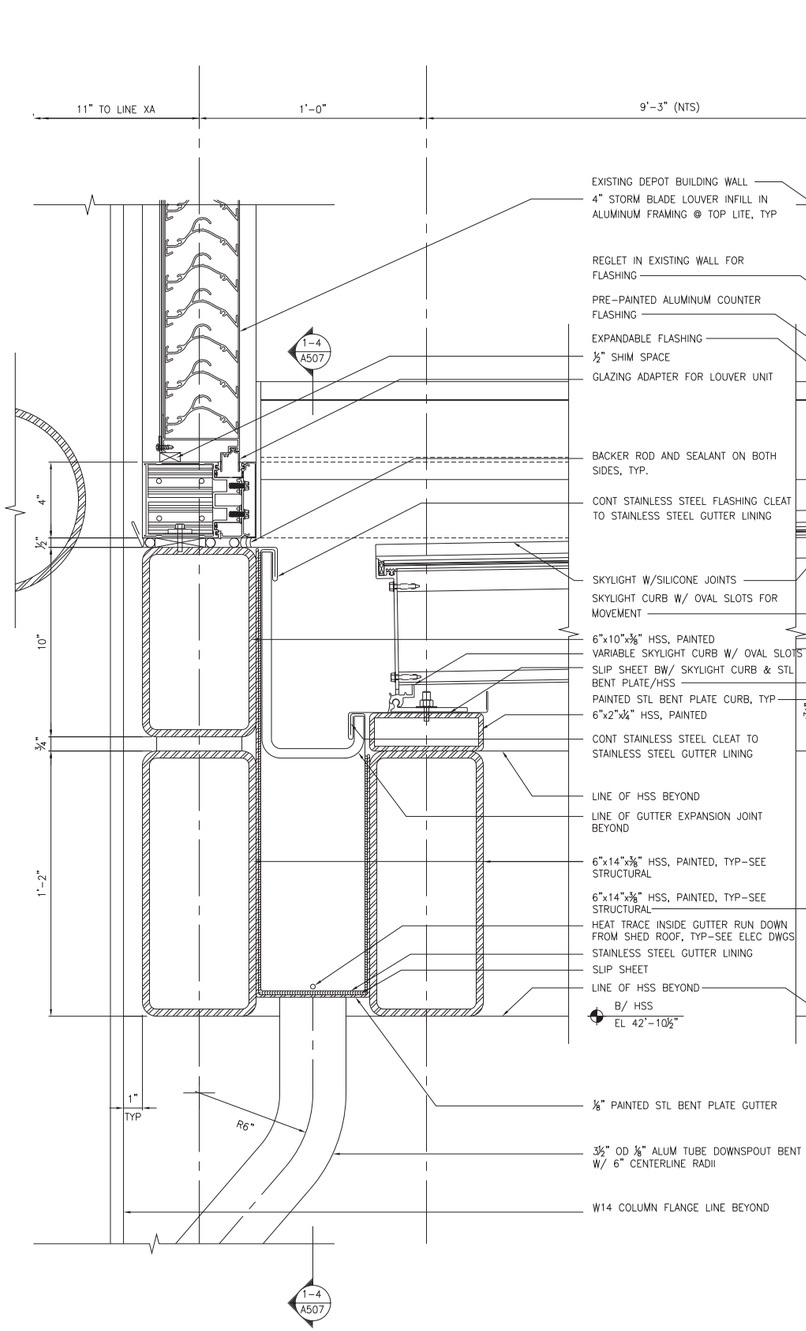
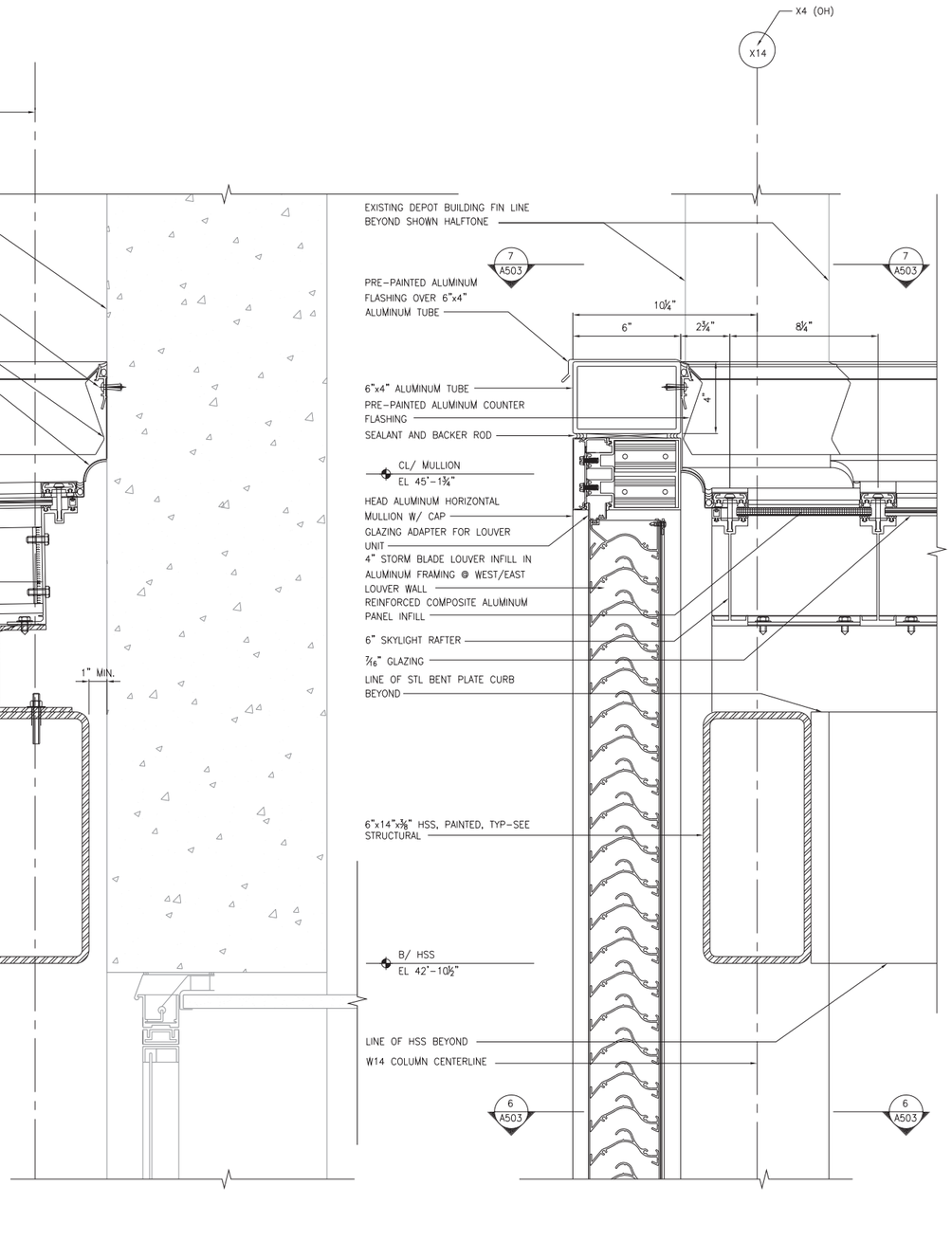


1 A505 DETAIL - NORTH SKYLIGHT CURB & GUTTER
SCALE: 3"=1'-0"



2 A505 DETAIL - NORTH SKYLIGHT CURB & FLASHING @ EXISTING DEPOT BUILDING
SCALE: 3"=1'-0"

3 A505 SKYLIGHT FLASHING DETAIL @ EAST/WEST LOUVER WALL
SCALE: 3"=1'-0"

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GUTTER/ DOWNSPOUT DETAILS

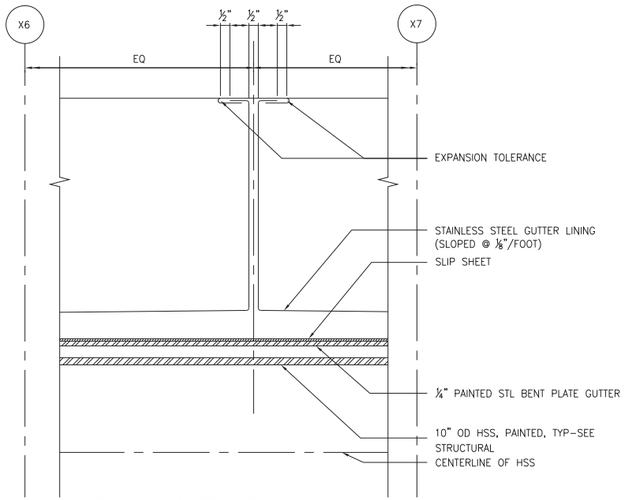
SHEET A-505

167

file= SCALE = 3"=1'-0"

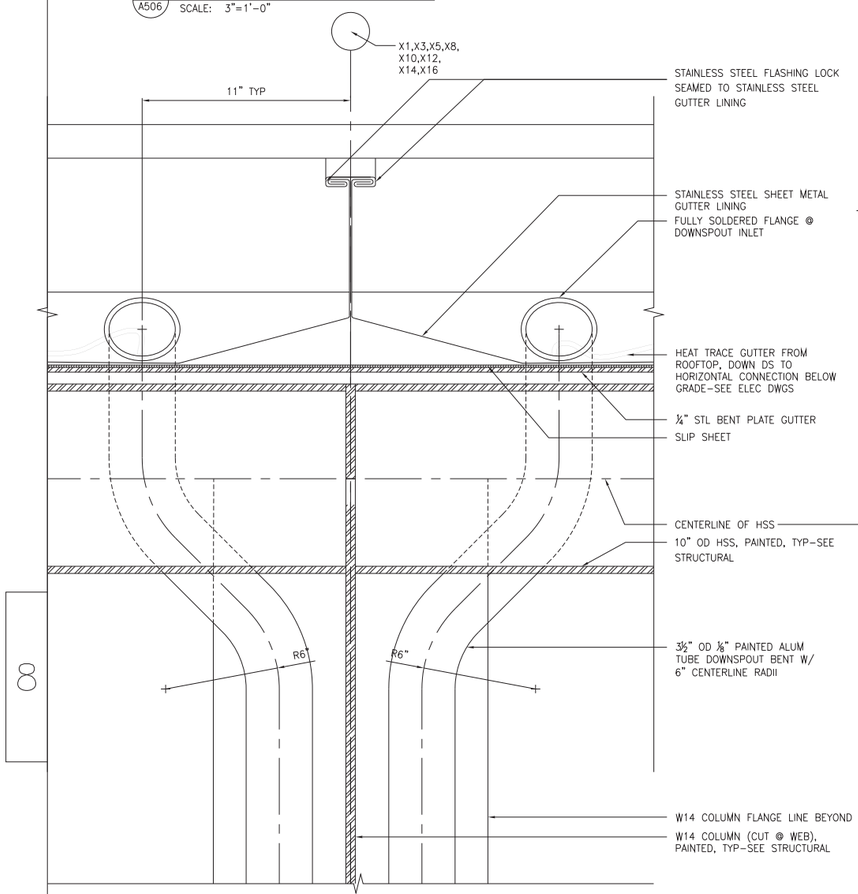
STATE PROJECT NUMBER

1000-40-70



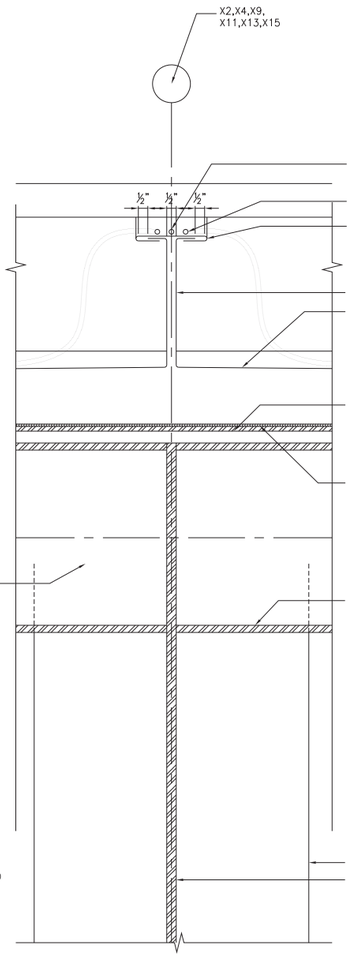
1 / A506 DETAIL-SHED GUTTER EXPANSION JOINT B/W LINES X6 & X7

SCALE: 3"=1'-0"



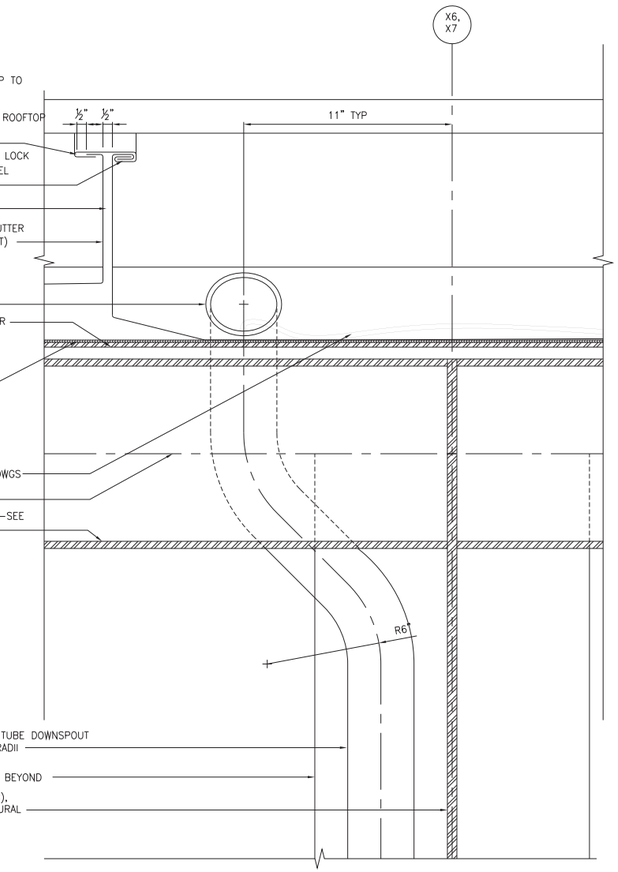
2 / A506 DETAIL-TYP. SHED ROOF DOWNSPOUTS

SCALE: 3"=1'-0"



3 / A506 DETAIL-TYP. SHED ROOF GUTTER EXPANSION JOINT

SCALE: 3"=1'-0"



4 / A506 DETAIL-SHED ROOF DOWNSPOUT @ LINES X6 & X7

SCALE: 3"=1'-0"

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GUTTER/
DOWNSPOUT DETAILS

SHEET A-506

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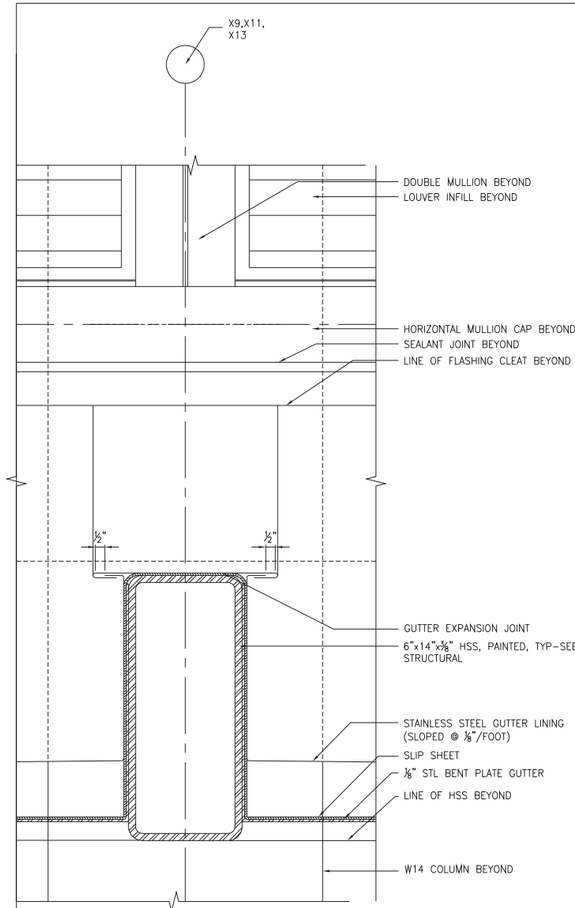
file= SCALE = 3"= 1'-0"

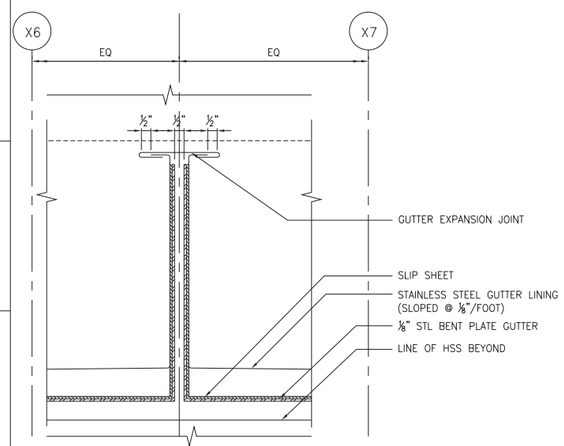
STATE PROJECT NUMBER

1000-40-70



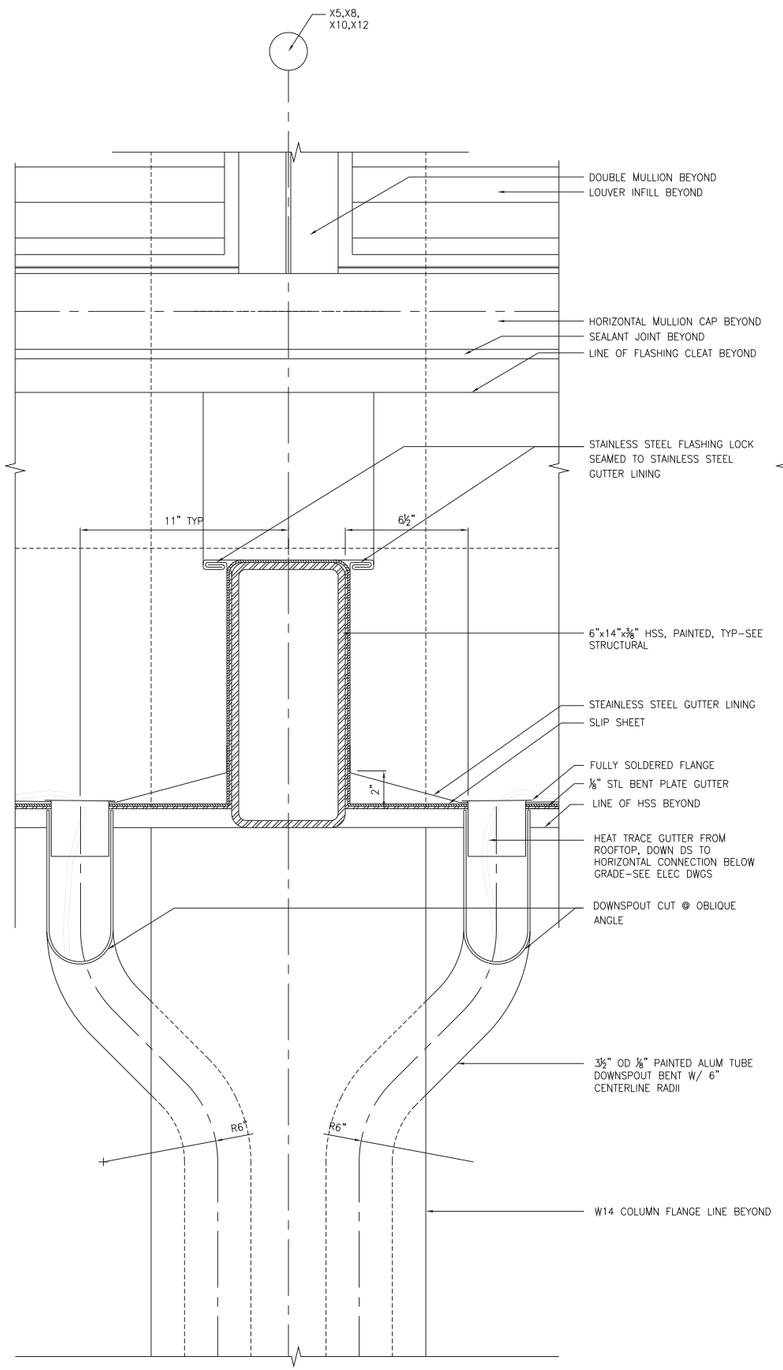
1 / A507 DETAIL-SKYLIGHT GUTTER EXPANSION JOINT @ HSS

SCALE: 3"=1'-0"



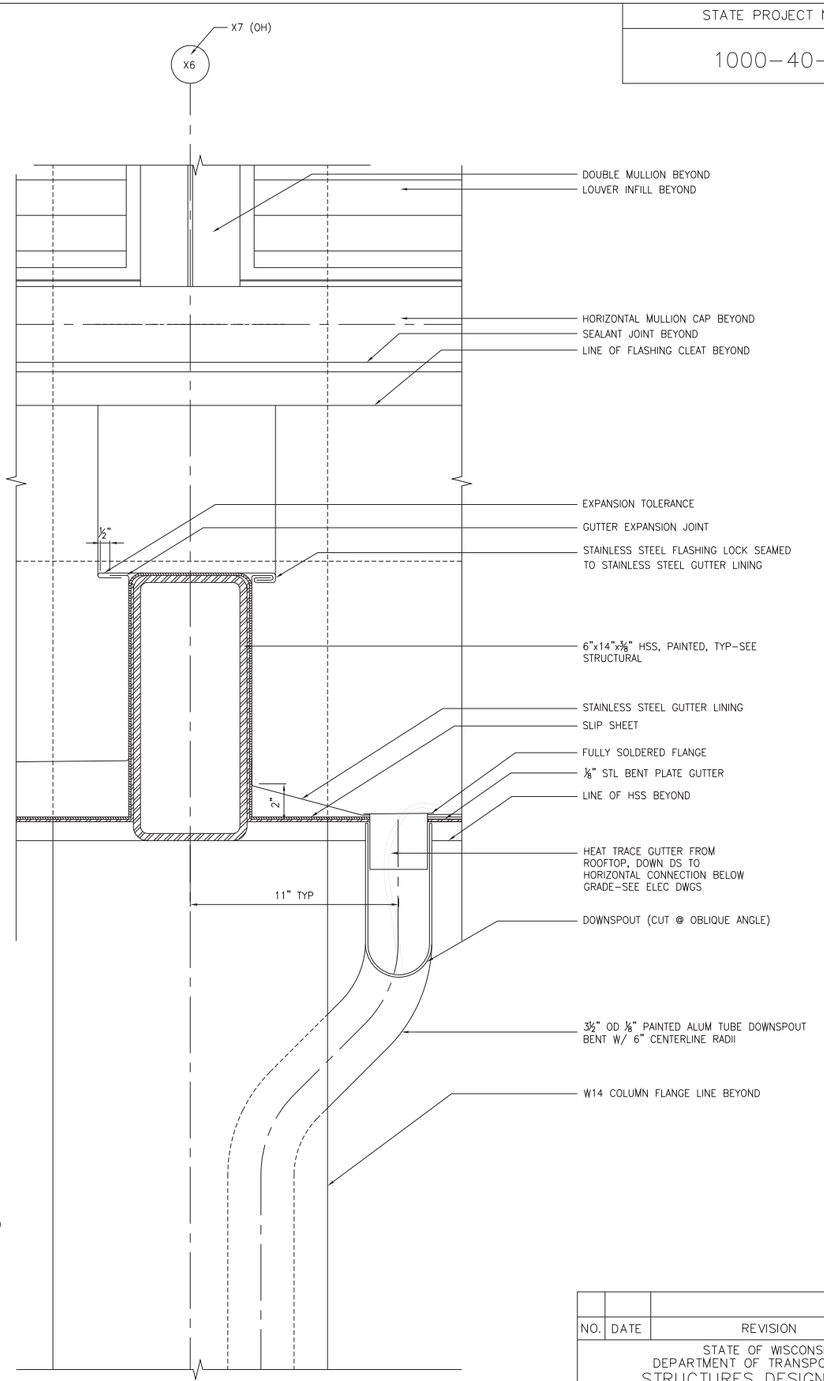
2 / A507 DETAIL-SKYLIGHT GUTTER EXPANSION JOINT B/W LINES X6 & X7

SCALE: 3"=1'-0"



3 / A507 DETAIL-TYP. SKYLIGHT GUTTER DOWNSPOUTS

SCALE: 3"=1'-0"



4 / A507 DETAIL-SKYLIGHT GUTTER DOWNSPOUT @ LINES X6 & X7

SCALE: 3"=1'-0"

NO.	DATE	REVISION	BY

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GUTTER/ DOWNSPOUT DETAILS

SHEET A-507

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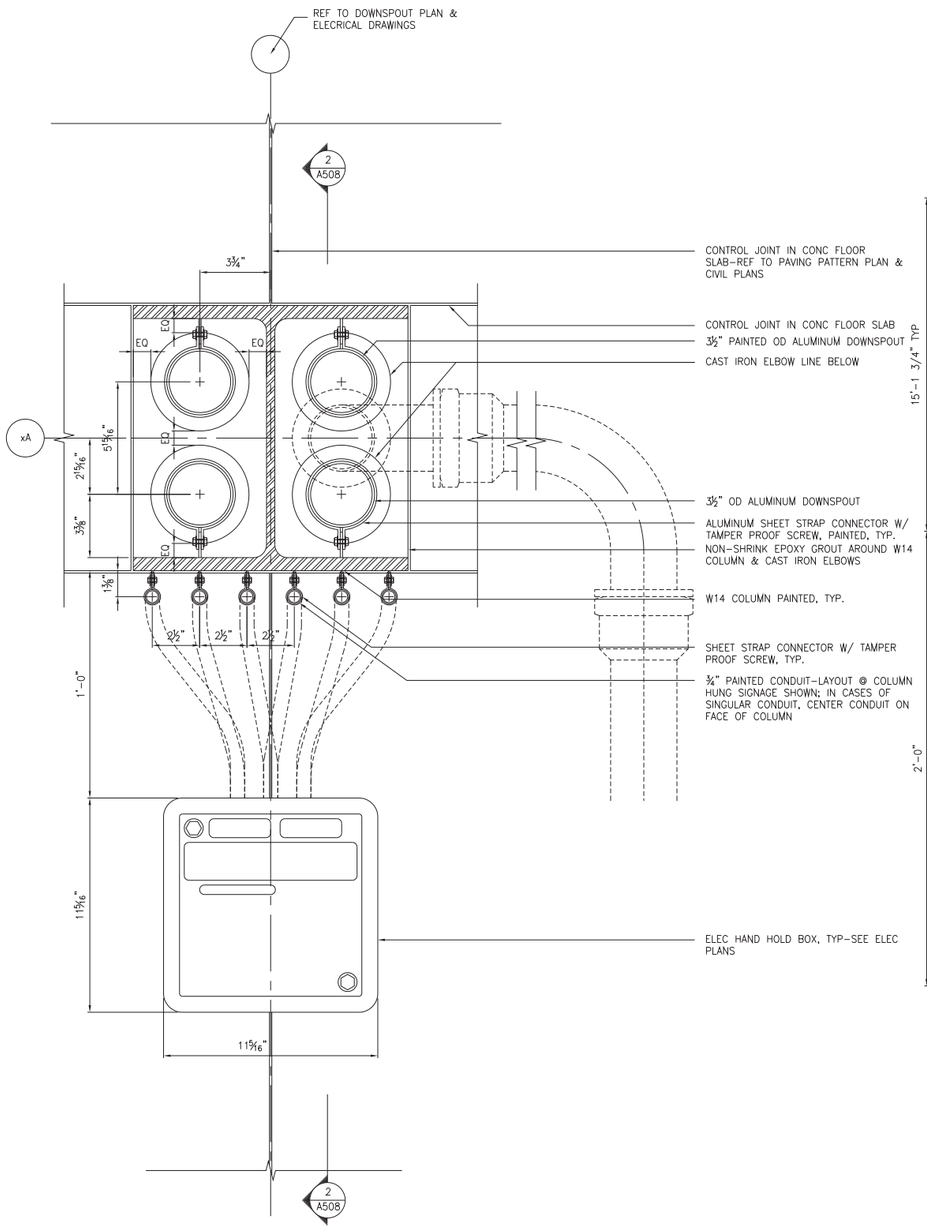
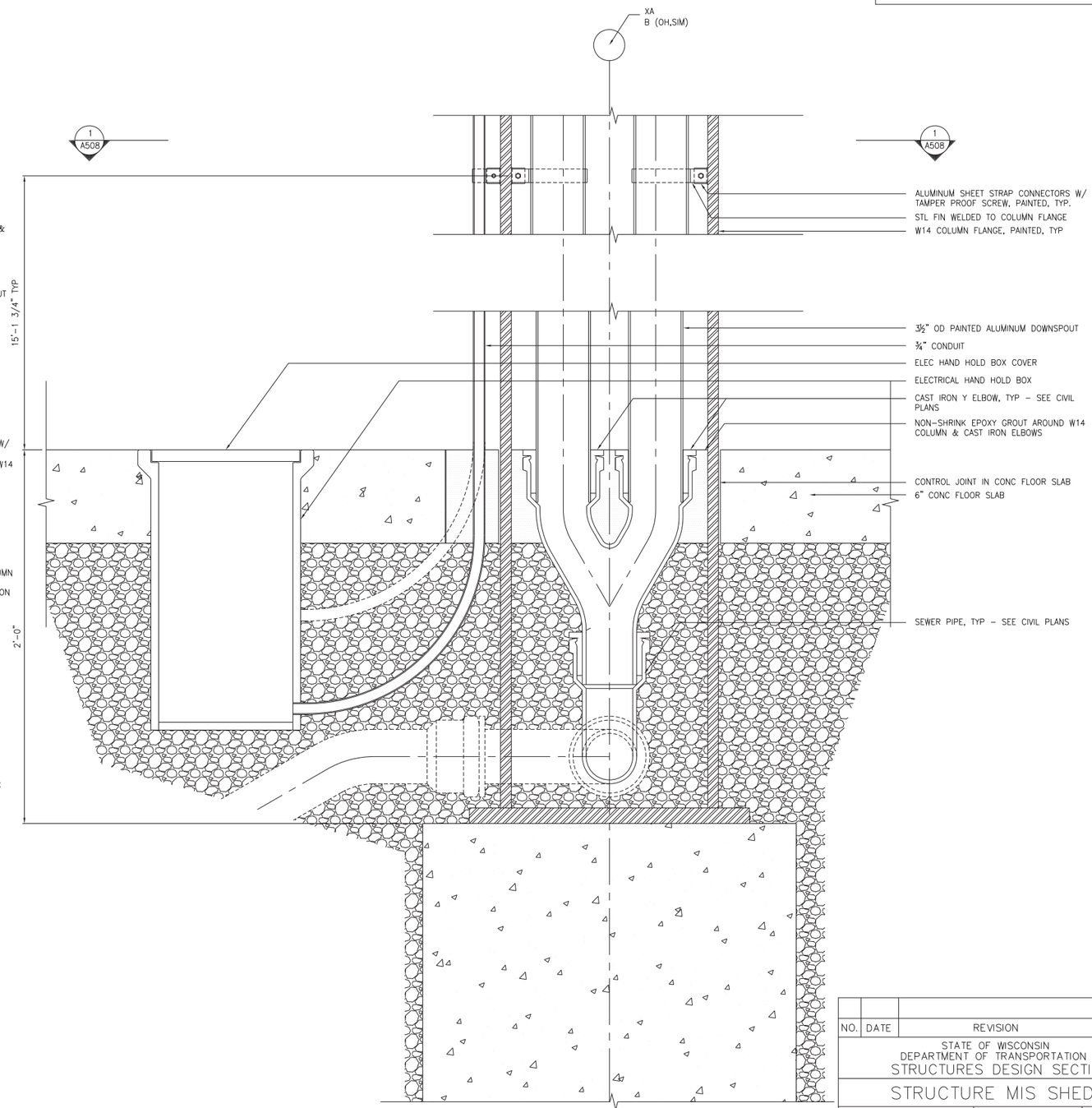
file= SCALE = 3"=1'-0"

STATE PROJECT NUMBER

1000-40-70





1 A508 PLAN DETAIL-CAST IRON DOWNSPOUT ELBOW AND ELECTRICAL HAND HOLD BOX
SCALE: 3"=1'-0"

2 A508 DETAIL-CAST IRON DOWNSPOUT ELBOW AND ELECTRICAL ELECTRICAL HAND HOLD BOX
SCALE: 3"=1'-0"

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GUTTER/ DOWNSPOUT DETAILS

SHEET A-508

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file= SCALE = 3"=1'-0"

STATE PROJECT NUMBER

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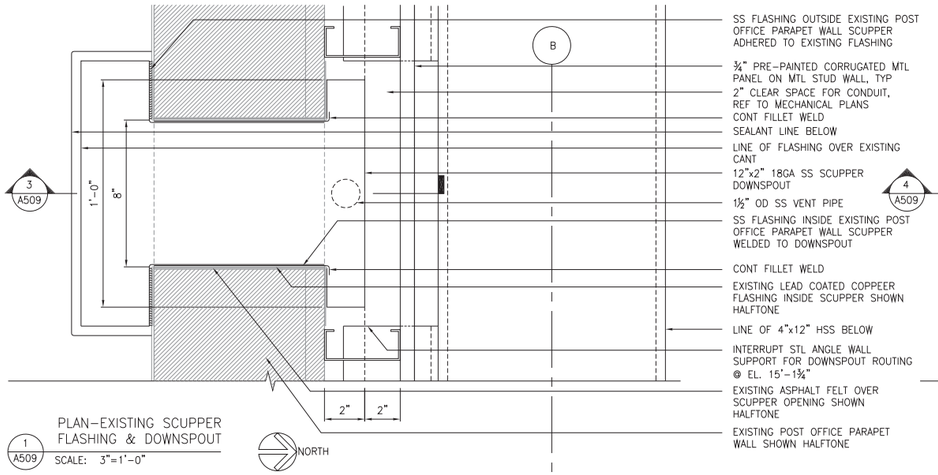
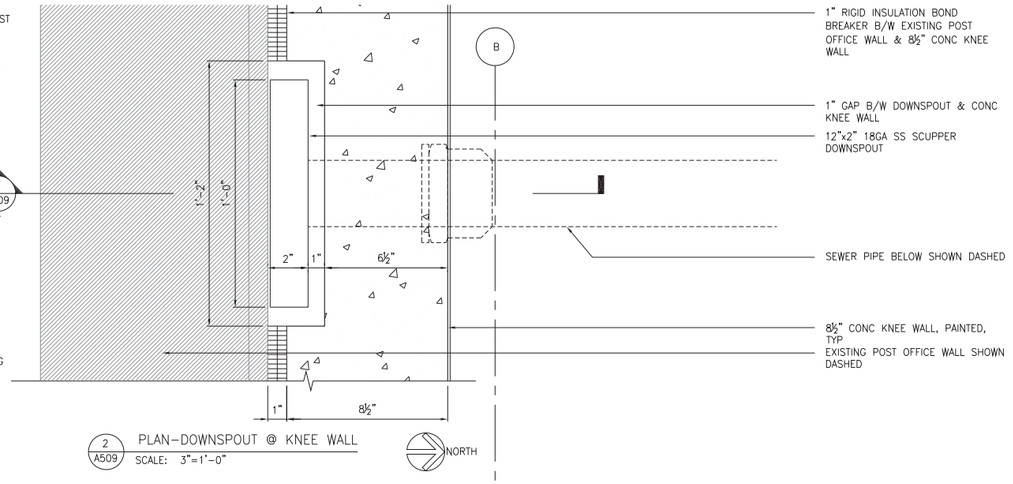
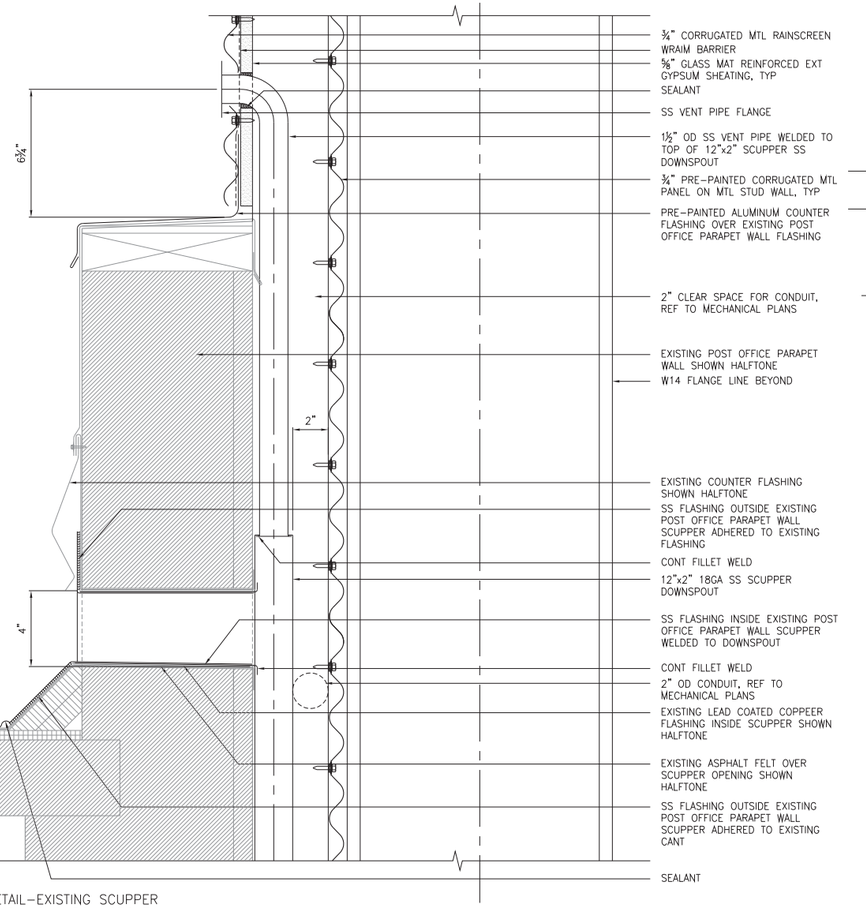


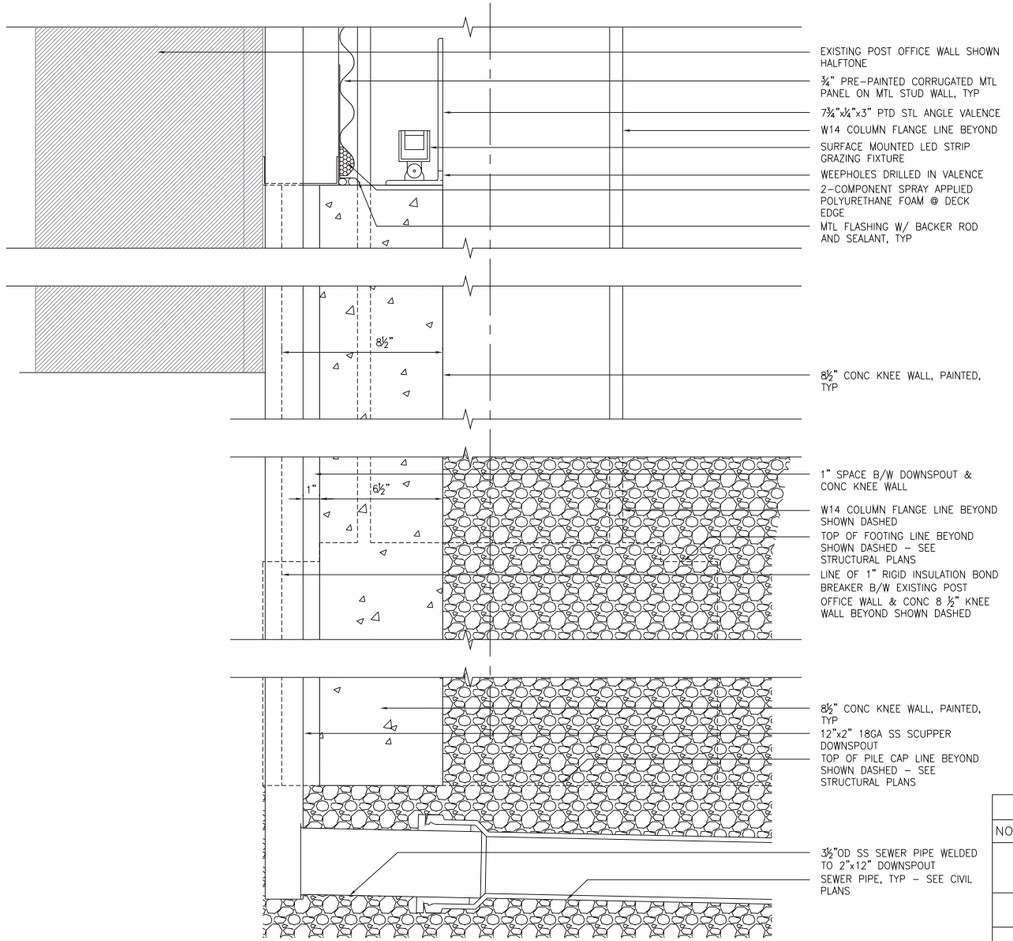
1 A509 PLAN-EXISTING SCUPPER FLASHING & DOWNSPOUT
SCALE: 3"=1'-0"



2 A509 PLAN-DOWNSPOUT @ KNEE WALL
SCALE: 3"=1'-0"



3 A509 DETAIL-EXISTING SCUPPER FLASHING & DOWNSPOUT
SCALE: 3"=1'-0"



4 A509 DETAIL-EXISTING SCUPPER DOWNSPOUT & BELL CONNECTION @ LINES X6-X7 & X11-X12
SCALE: 3"=1'-0"

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GUTTER/ DOWNSPOUT DETAILS

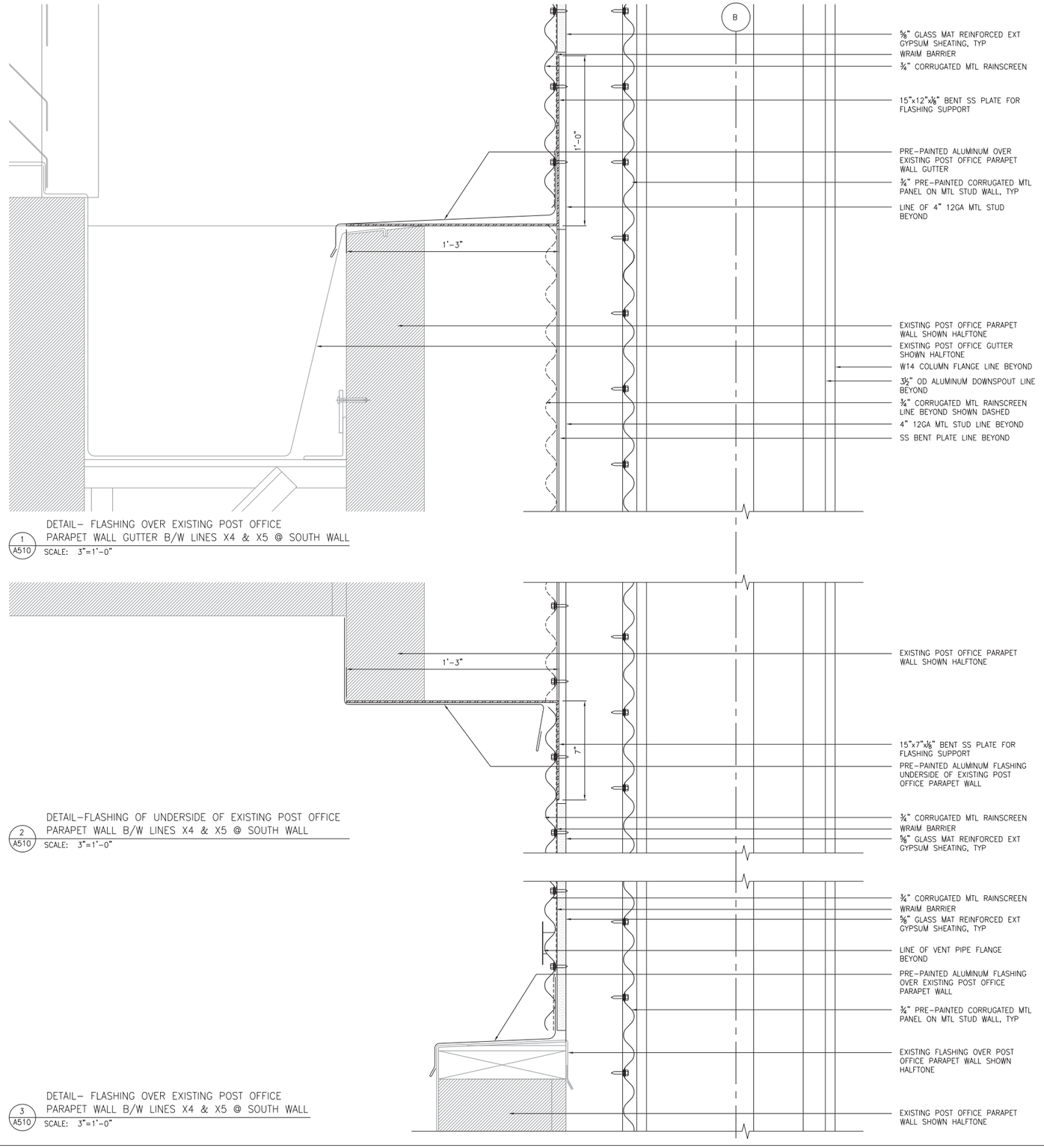
SHEET A-509

171

file= SCALE = 3"=1'-0"

STATE PROJECT NUMBER

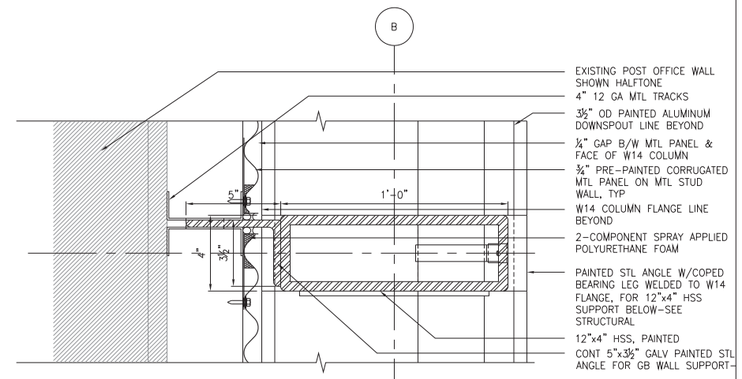
1000-40-70



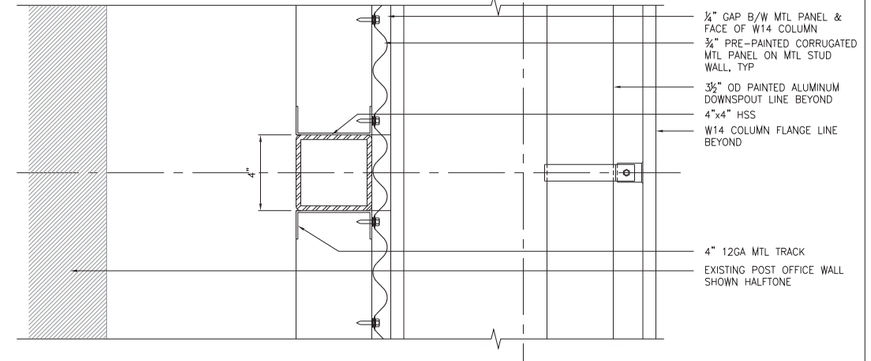
1 / A510 DETAIL- FLASHING OVER EXISTING POST OFFICE PARAPET WALL GUTTER B/W LINES X4 & X5 @ SOUTH WALL
SCALE: 3"=1'-0"

2 / A510 DETAIL-FLASHING OF UNDERSIDE OF EXISTING POST OFFICE PARAPET WALL B/W LINES X4 & X5 @ SOUTH WALL
SCALE: 3"=1'-0"

3 / A510 DETAIL- FLASHING OVER EXISTING POST OFFICE PARAPET WALL B/W LINES X4 & X5 @ SOUTH WALL
SCALE: 3"=1'-0"



4 / A510 DETAIL-STL ANGLE SUPPORT FOR SOUTH WALL
SCALE: 3"=1'-0"



5 / A510 DETAIL-SOUTH WALL SUPPORT @ END BAYS OF SHED
SCALE: 3"=1'-0"

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DETAILS

SHEET A-510

172

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file=
SCALE = 3"=1'-0"

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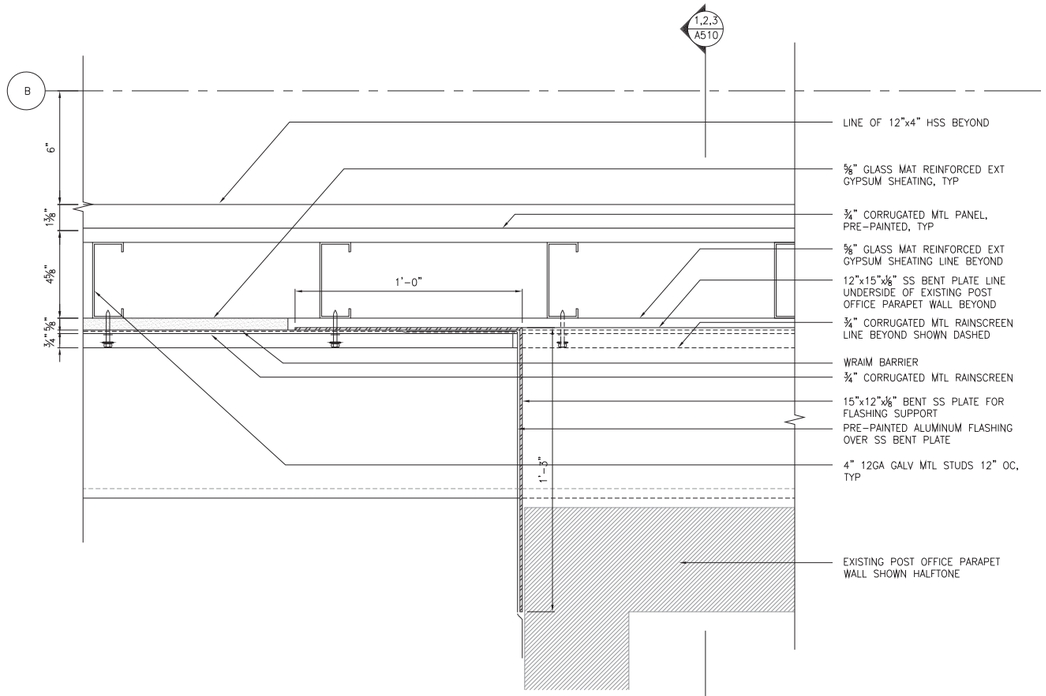
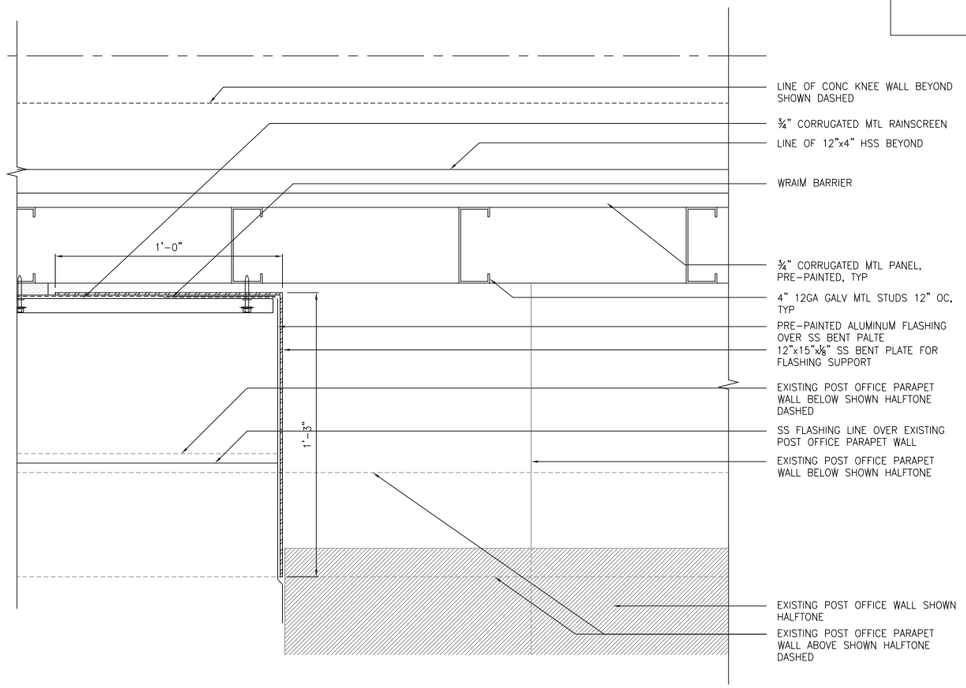


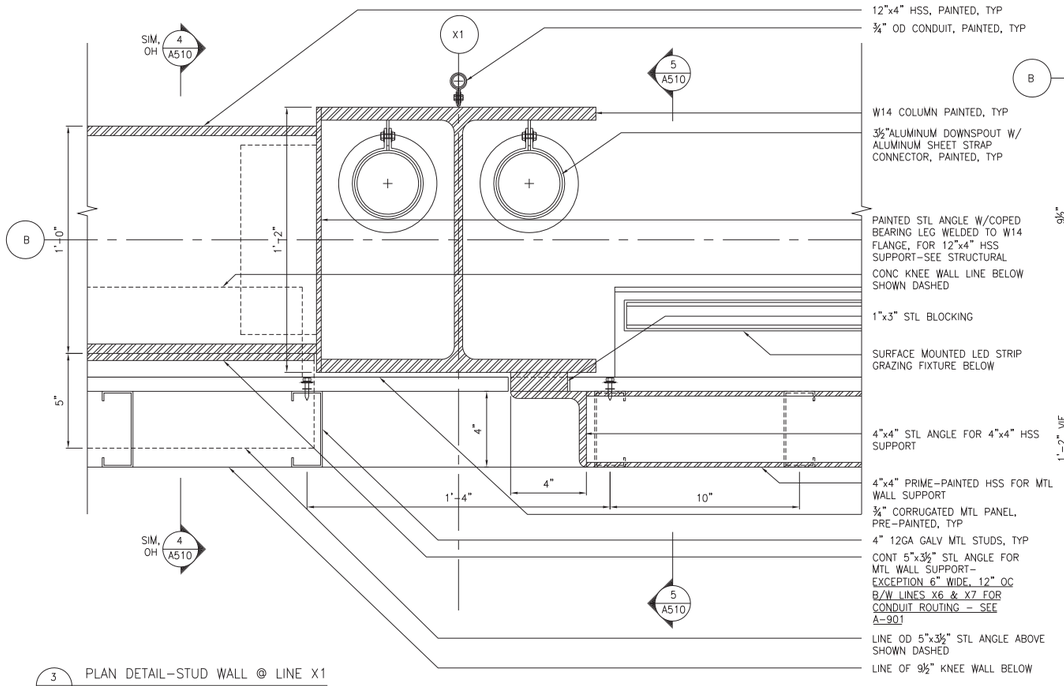
1 / A511 PLAN DETAIL-FLASHING B/W WEST FACE OF EXISTING POST OFFICE PARAPET WALL AND EXTERIOR OF SOUTH WALL B/W LINES X4 & X5

SCALE: 3"=1'-0"



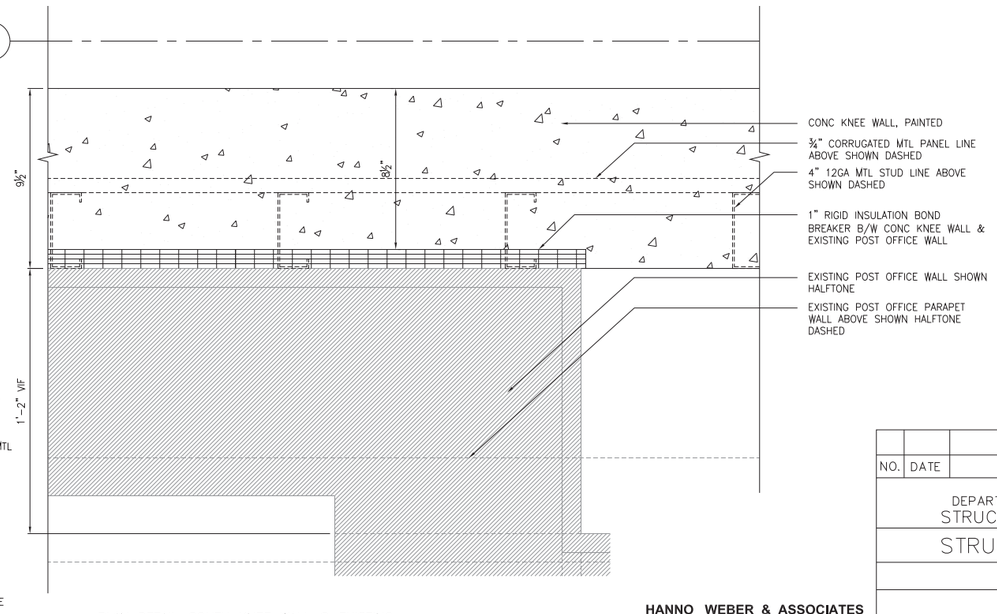
2 / A511 PLAN DETAIL-FLASHING B/W WEST EXISTING POST OFFICE WALL AND EXTERIOR OF SOUTH WALL B/W LINES X4 & X5

SCALE: 3"=1'-0"



3 / A511 PLAN DETAIL-STUD WALL @ LINE X1

SCALE: 3"=1'-0"



4 / A511 PLAN DETAIL-SOUTH KNEE WALL @ EXISTING POST OFFICE WALL B/W LINES X4 & X5

SCALE: 3"=1'-0"

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DETAILS

SHEET A-511

173

file= SCALE = 3"= 1'-0"

STATE PROJECT NUMBER

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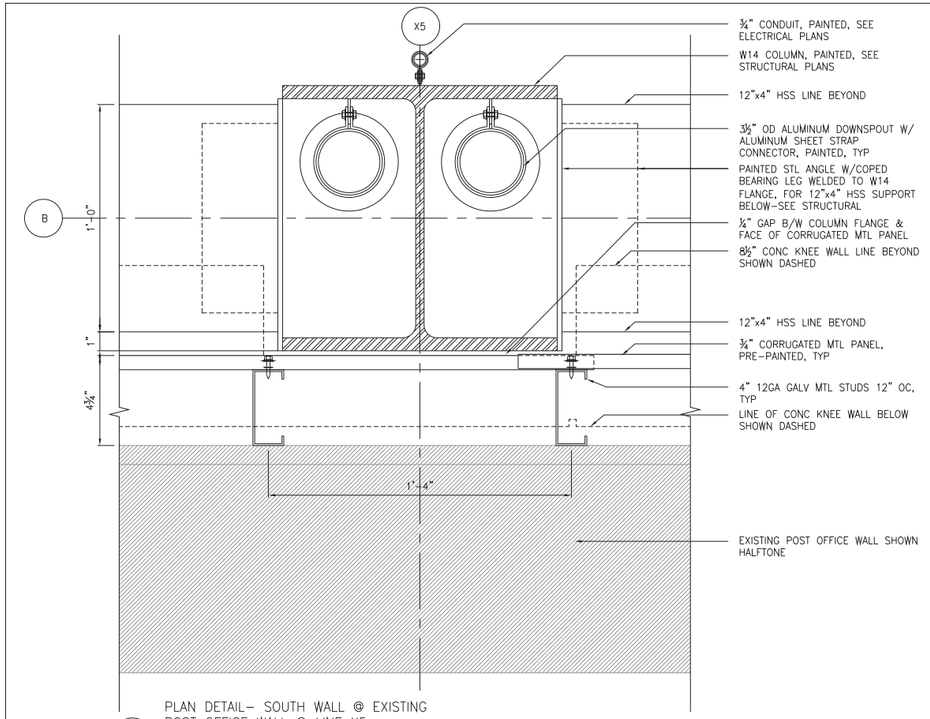
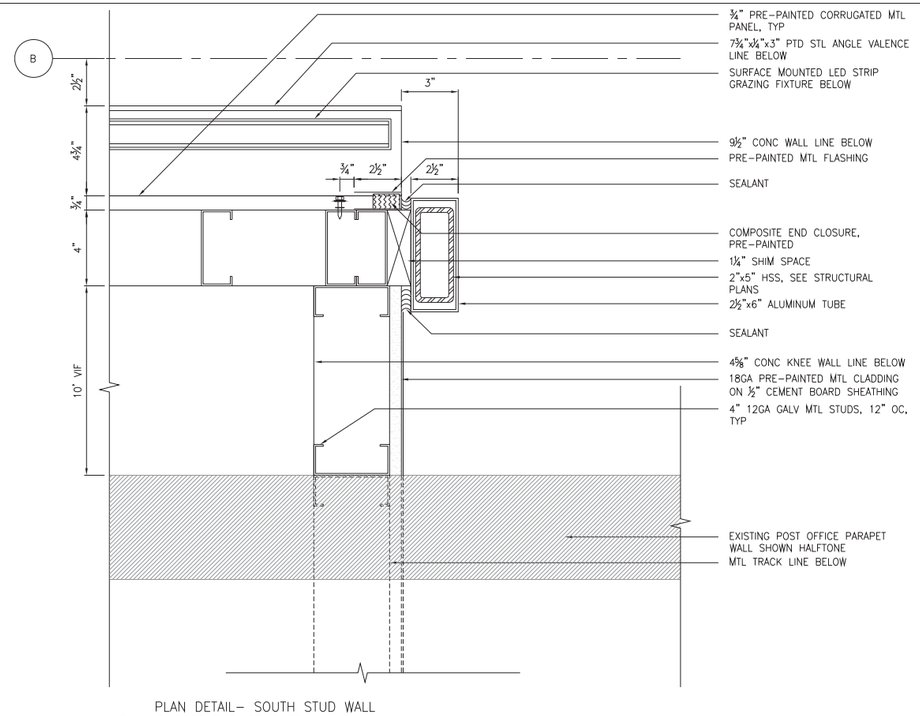


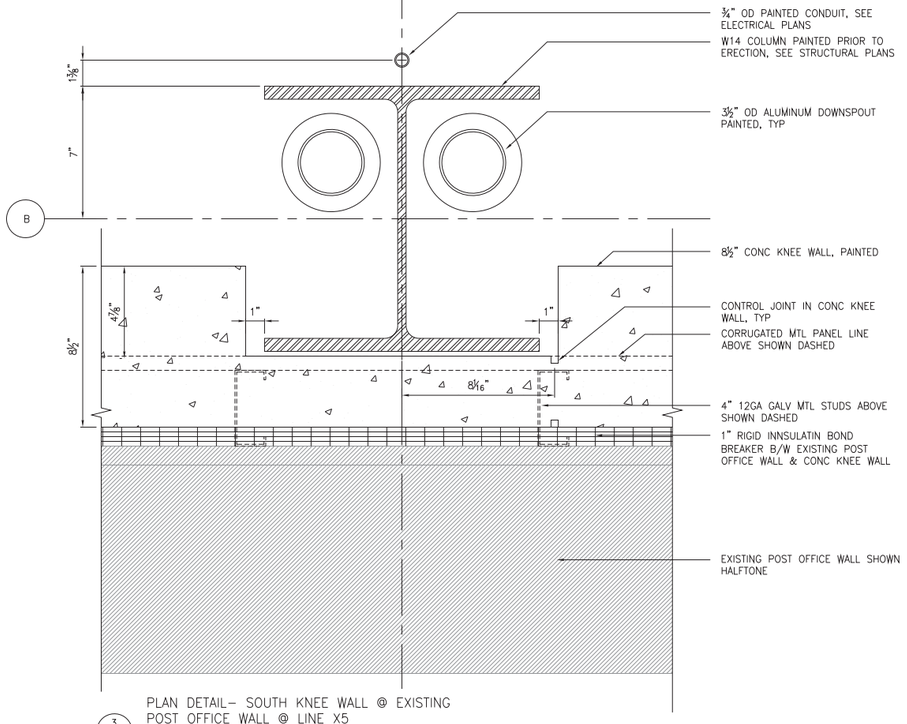
1 A512 PLAN DETAIL- SOUTH WALL @ EXISTING POST OFFICE WALL @ LINE X5

SCALE: 3"=1'-0"



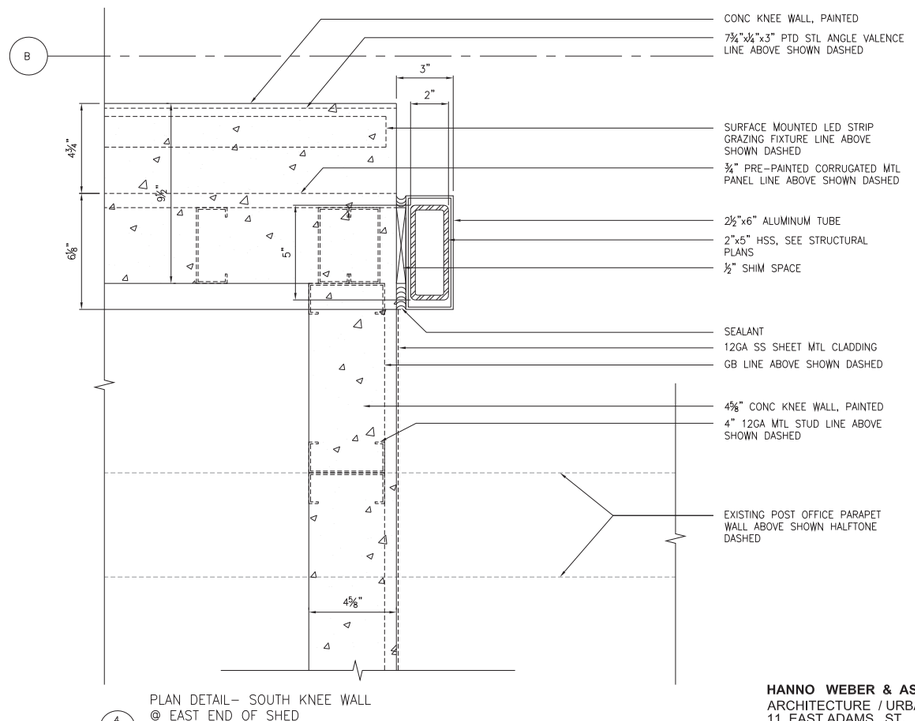
2 A512 PLAN DETAIL- SOUTH STUD WALL @ EAST END OF SHED

SCALE: 3"=1'-0"



3 A512 PLAN DETAIL- SOUTH KNEE WALL @ EXISTING POST OFFICE WALL @ LINE X5

SCALE: 3"=1'-0"



4 A512 PLAN DETAIL- SOUTH KNEE WALL @ EAST END OF SHED

SCALE: 3"=1'-0"

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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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DETAILS

SHEET A-512

174

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11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = 3"=1'-0"

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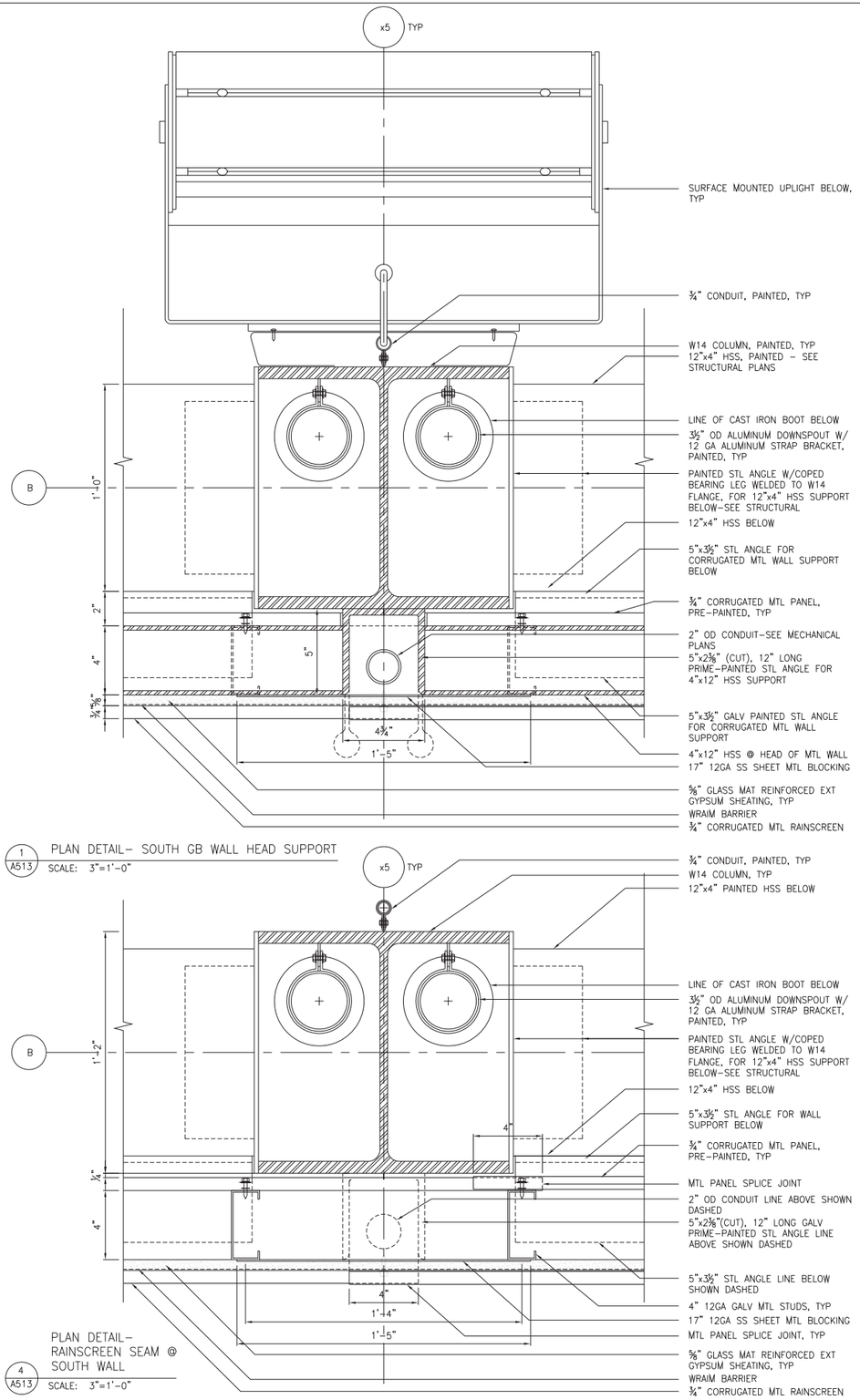
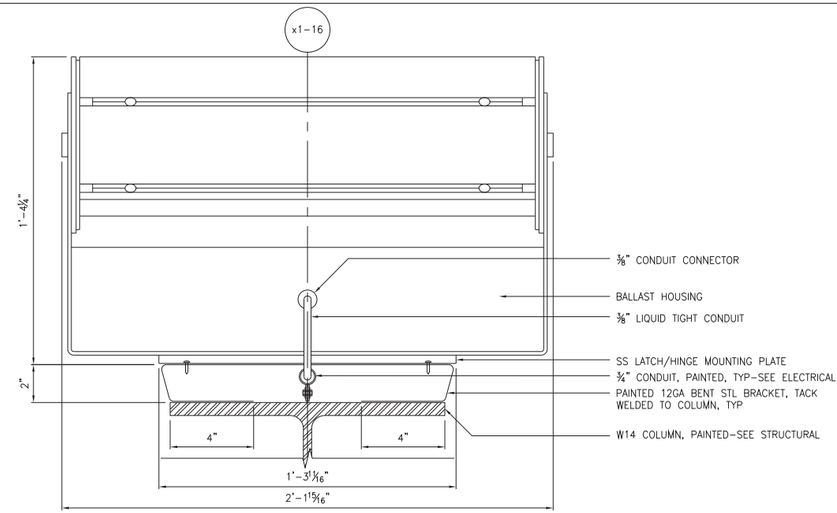
1000-40-70

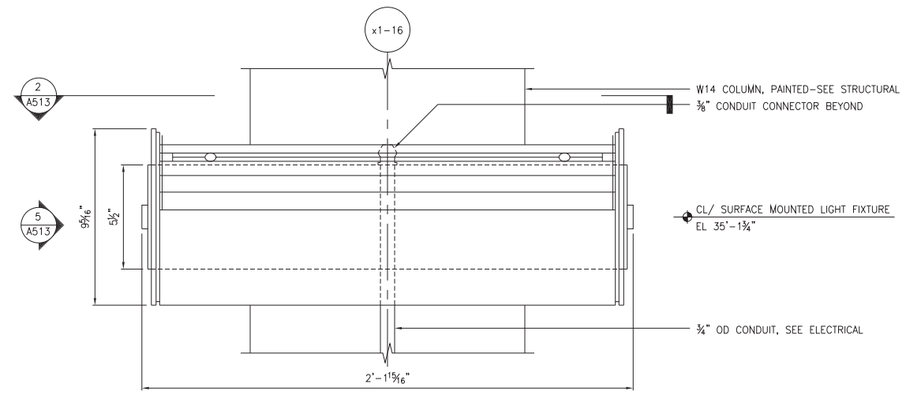


1 A513 PLAN DETAIL– SOUTH GB WALL HEAD SUPPORT
SCALE: 3"=1'-0"

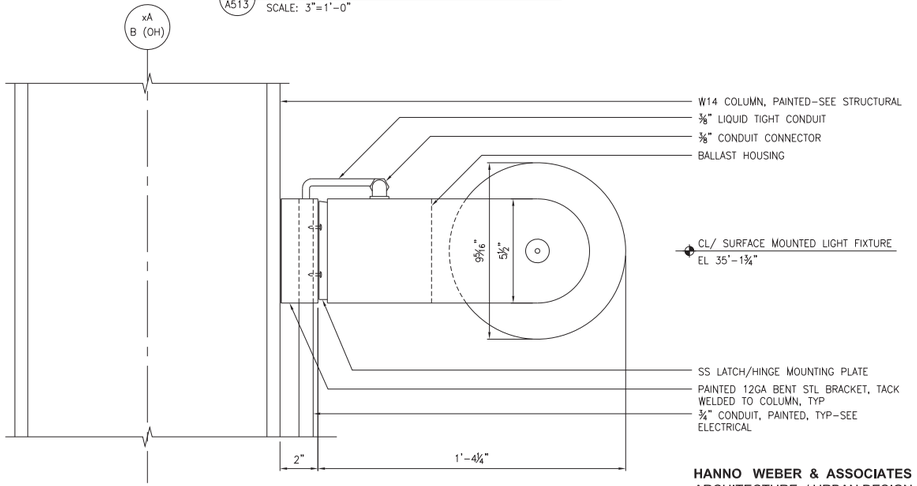
4 A513 PLAN DETAIL– RAINSCREEN SEAM @ SOUTH WALL
SCALE: 3"=1'-0"



2 A513 PLAN–COLUMN MOUNTED LIGHT FIXTURE
SCALE: 3"=1'-0"



3 A513 ELEVATION–COLUMN MOUNTED LIGHT FIXTURE
SCALE: 3"=1'-0"



5 A513 ELEVATION–COLUMN MOUNTED LIGHT FIXTURE
SCALE: 3"=1'-0"

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DETAILS

SHEET A-513

175

file= SCALE = 3"=1'-0"

08

08

STATE PROJECT NUMBER

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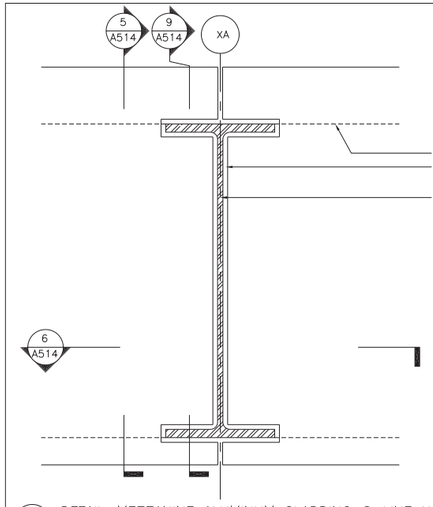
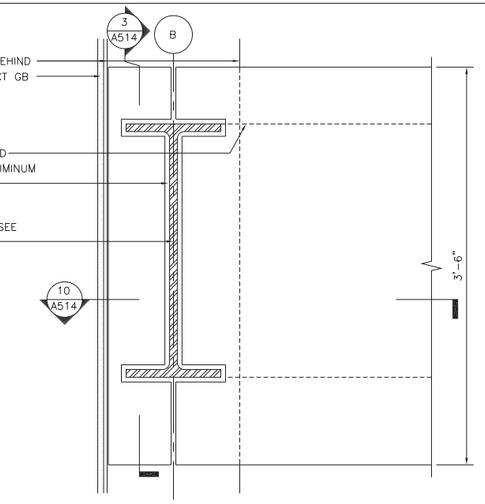
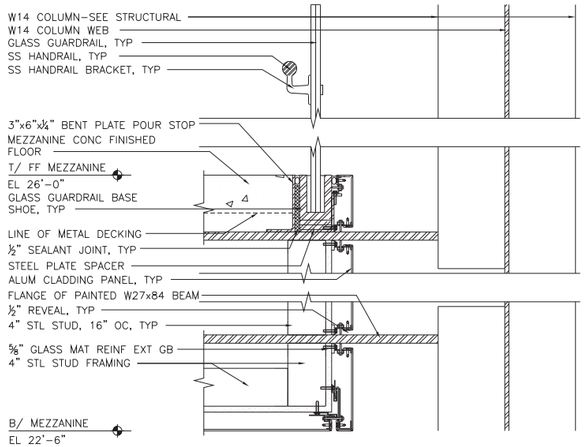


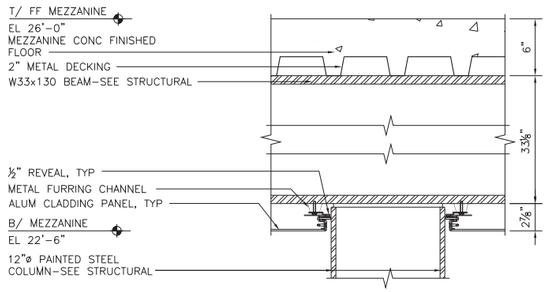
1 A514 DETAIL-MEZZANINE ALUMINUM CLADDING @ LINE XA
SCALE: 1½"=1'-0"



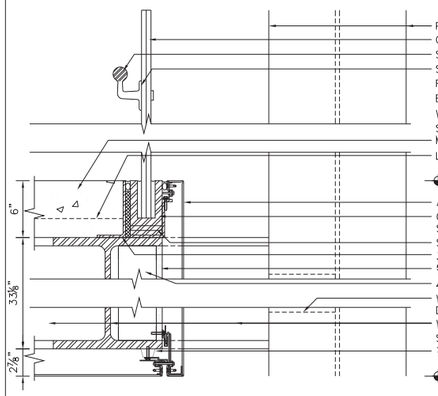
2 A514 DETAIL-MEZZANINE ALUMINUM CLADDING @ LINE B
SCALE: 1½"=1'-0"



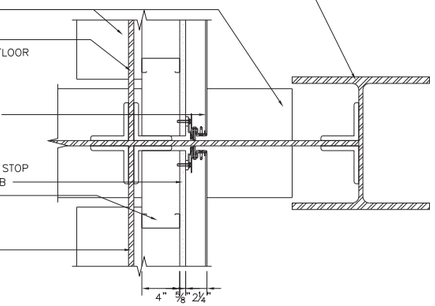
3 A514 SECTION DETAIL-ALUMINUM CLADDING @ BEAM
SCALE: 1½"=1'-0"



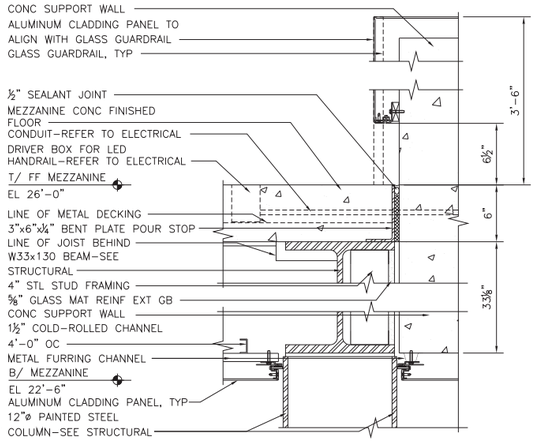
4 A514 DETAIL-UNDERSIDE ALUMINUM CLADDING @ COLUMN
SCALE: 1½"=1'-0"



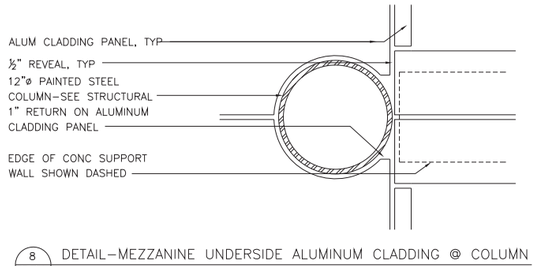
5 A514 SECTION DETAIL-ALUMINUM CLADDING @ MEZZANIINE EDGE
SCALE: 1½"=1'-0"



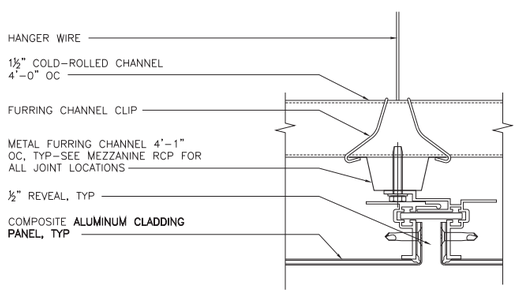
6 A514 PLAN DETAIL-ALUMINUM CLADDING @ BEAM INTERSECTION
SCALE: 1½"=1'-0"



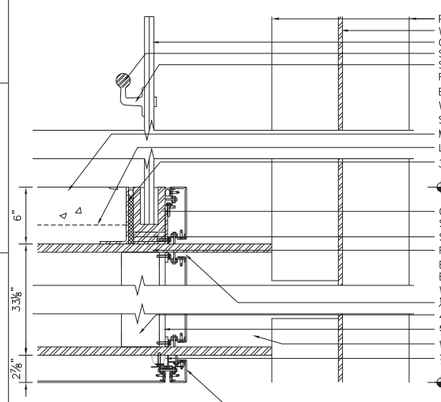
7 A514 SECTION DETAIL-ALUMINUM CLADDING @ STAIRS STE2 & STE3
SCALE: 1½"=1'-0"



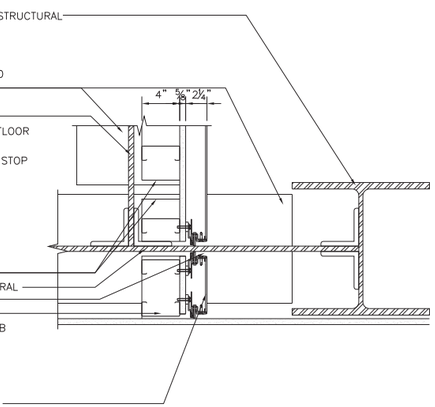
8 A514 DETAIL-MEZZANINE UNDERSIDE ALUMINUM CLADDING @ COLUMN
SCALE: 1½"=1'-0"



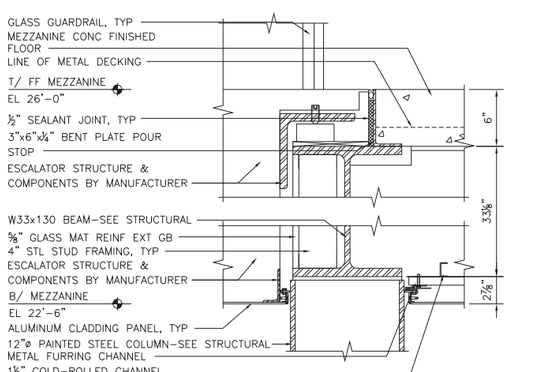
12 A514 DETAIL-MEZZANINE UNDERSIDE ALUMINUM CLADDING CONNECTION TO SUSPENDED CEILING SYSTEM
SCALE: 6"=1'-0"



9 A514 SECTION DETAIL-ALUMINUM CLADDING @ COLUMN
SCALE: 1½"=1'-0"



10 A514 PLAN DETAIL-ALUMINUM CLADDING @ BEAM INTERSECTION
SCALE: 1½"=1'-0"



11 A514 DETAIL-ALUMINUM CLADDING @ ESCALATOR
SCALE: 1½"=1'-0"

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DETAILS

SHEET A-514

176

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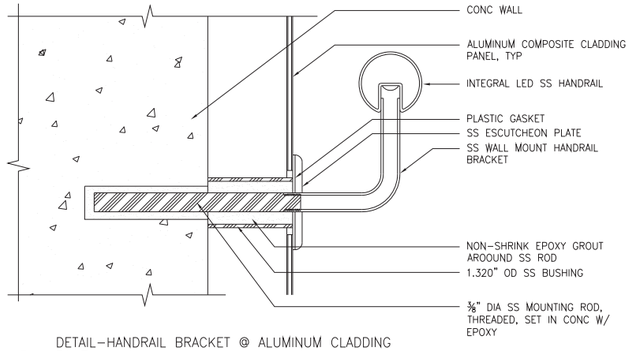
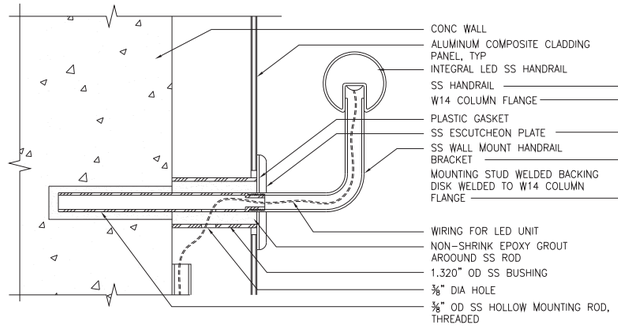


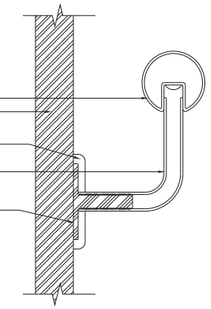
1 A515 DETAIL-HANDRAIL BRACKET @ ALUMINUM CLADDING PANEL

SCALE: 6"=1'-0"



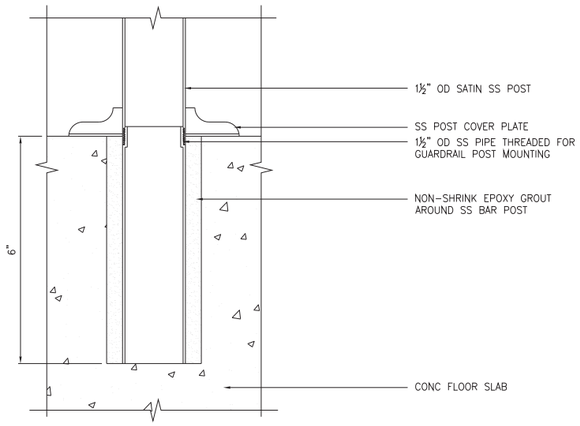
2 A515 DETAIL-HANDRAIL BRACKET W/ WIRING SLEEVE @ ALUMINNUM CLADDING PANEL

SCALE: 6"=1'-0"



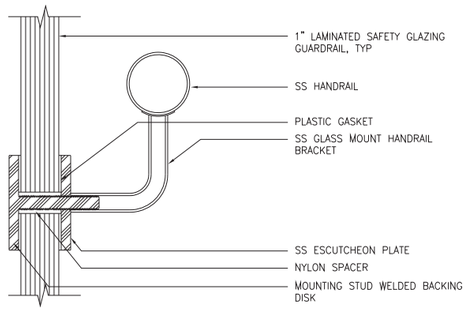
3 A515 DETAIL-HANDRAIL BRACKET @ COLUMN FLANGE

SCALE: 6"=1'-0"



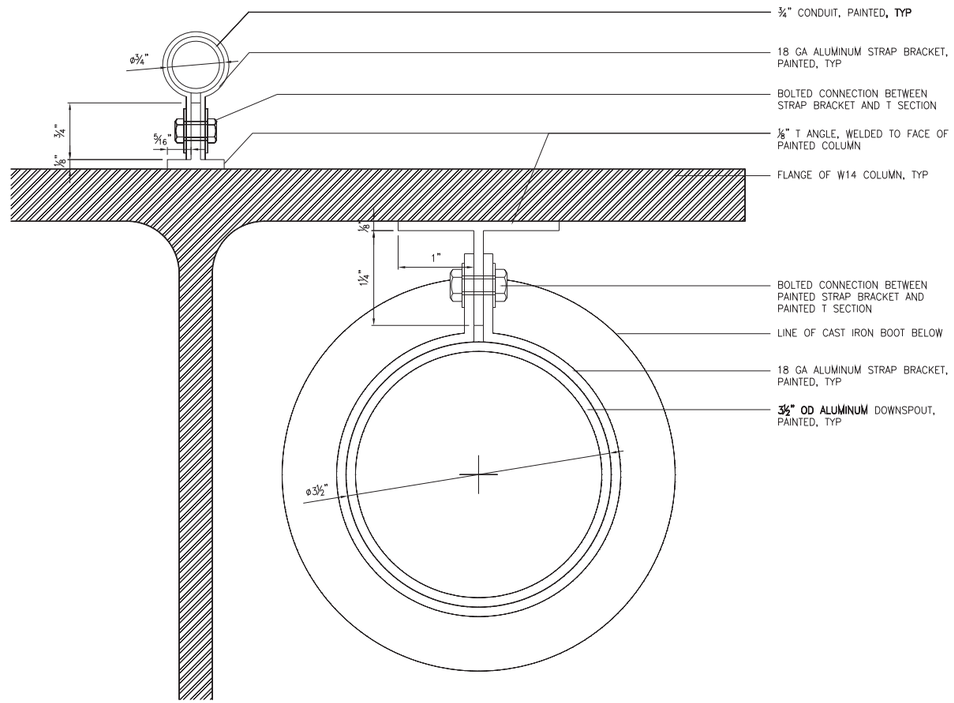
6 A515 DETAIL-GUARDRAIL END POST @ CONC FLOOR

SCALE: 6"=1'-0"



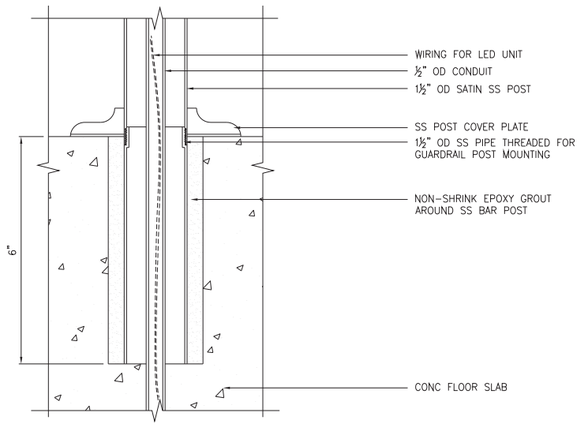
7 A515 DETAIL-HANDRAIL BRACKET @ GLAZING JOINTS

SCALE: 6"=1'-0"



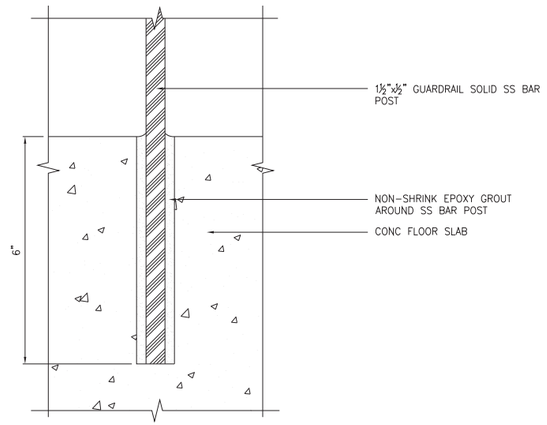
10 A515 DETAIL-DOWNSPOUT & CONDUIT BRACKET @ COLUMN FLANGE

SCALE: FULL SIZE



8 A515 DEATIL-GUARDRAIL END POST W/ WIRING @ CONC FLOOR

SCALE: 6"=1'-0"



9 A515 DETAIL-INTERMEDIATE GUARDRAIL SOLID SS BAR POST @ CONC FLOOR

SCALE: 6"=1'-0"

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DETAILS

SHEET A-515

177

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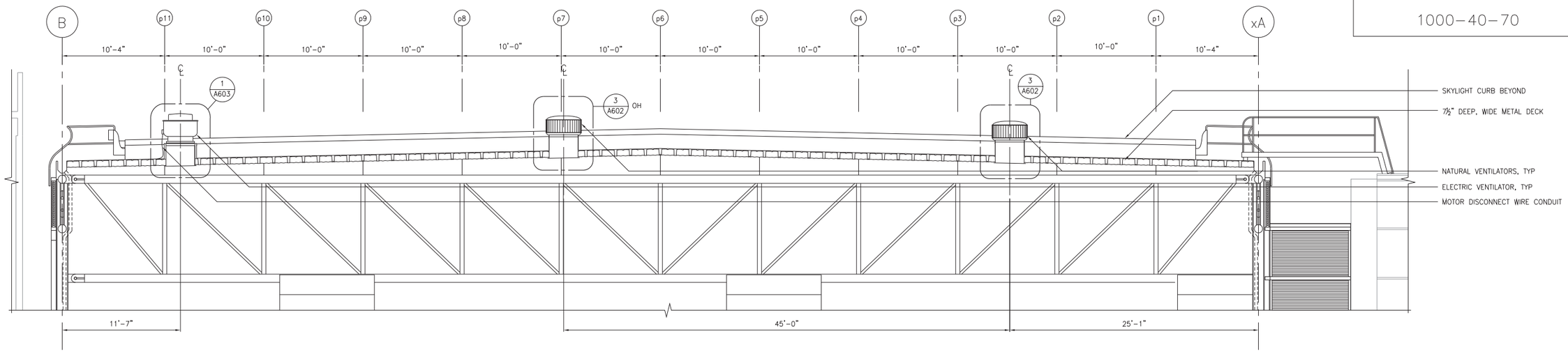
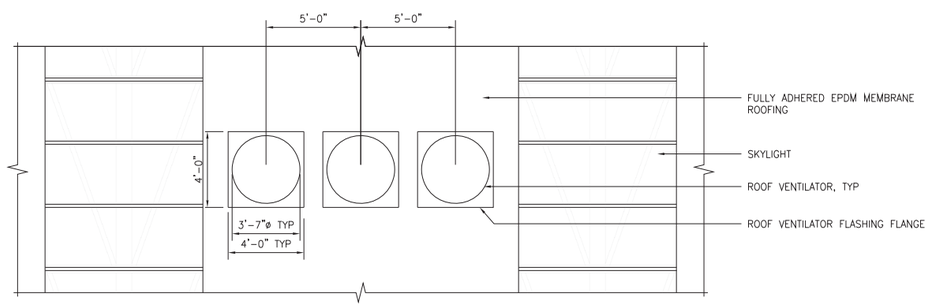


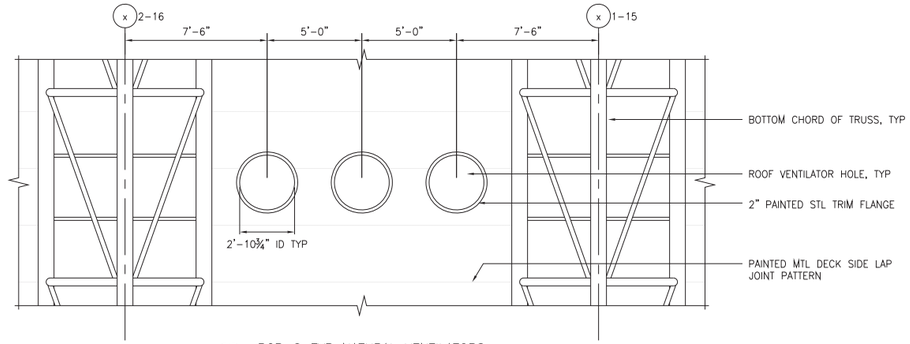
1 A601 SECTION LOOKING WEST THRU VENTILATORS

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



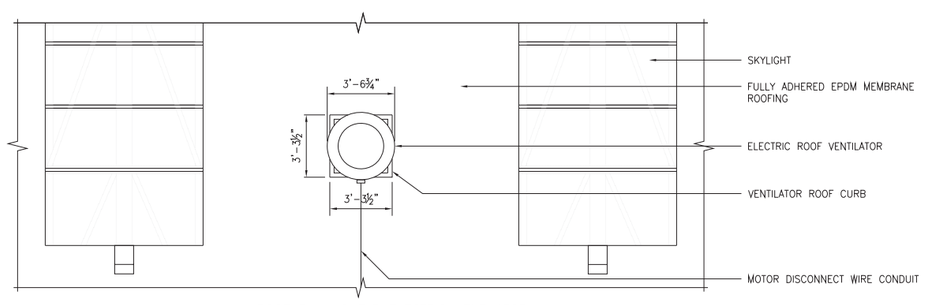
2 A601 ROOF PLAN @ TYP NATURAL VENTILATORS

SCALE: ¼"=1'-0"



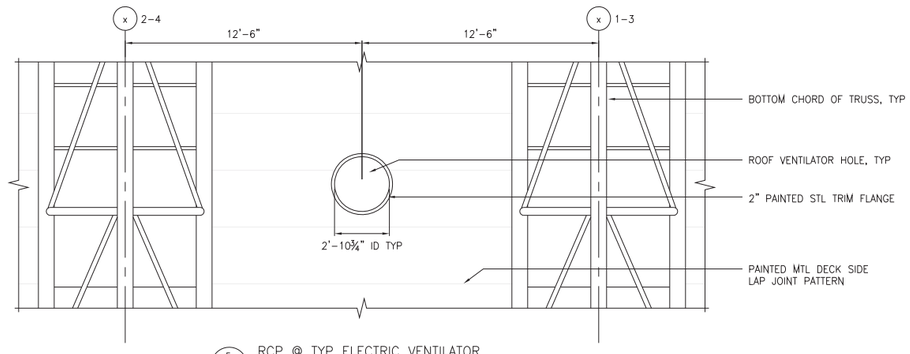
3 A601 RCP @ TYP NATURAL VENTILATORS

SCALE: ¼"=1'-0"



4 A601 ROOF PLAN @ TYP ELECTRIC VENTILATOR

SCALE: ¼"=1'-0"



5 A601 RCP @ TYP ELECTRIC VENTILATOR

SCALE: ¼"=1'-0"

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VENTILATOR DETAILS

SHEET A-601

178

file= SCALE = ¼"=1'-0" U.N.O.

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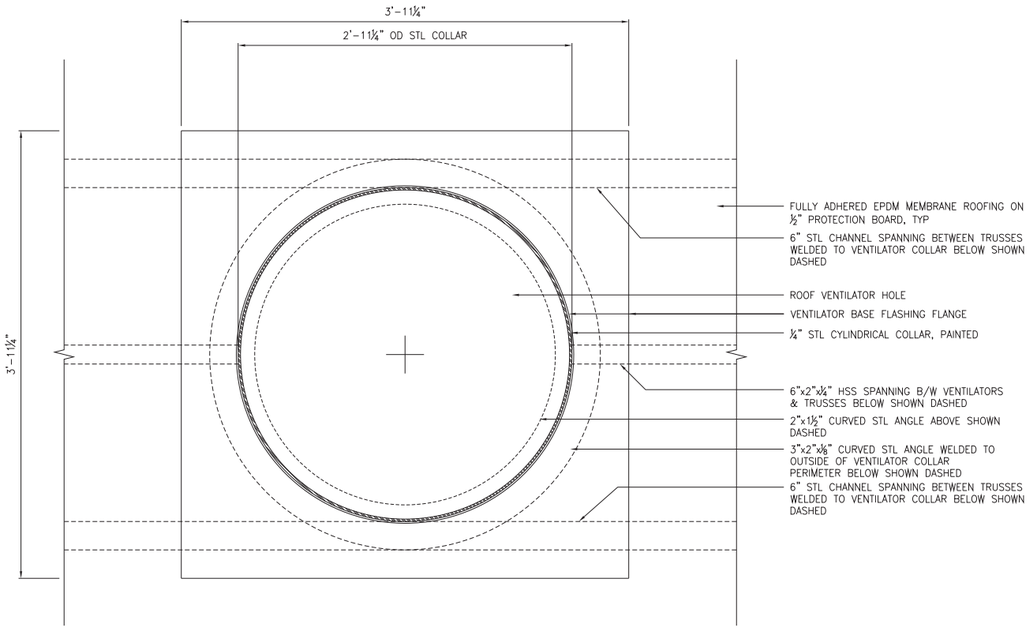
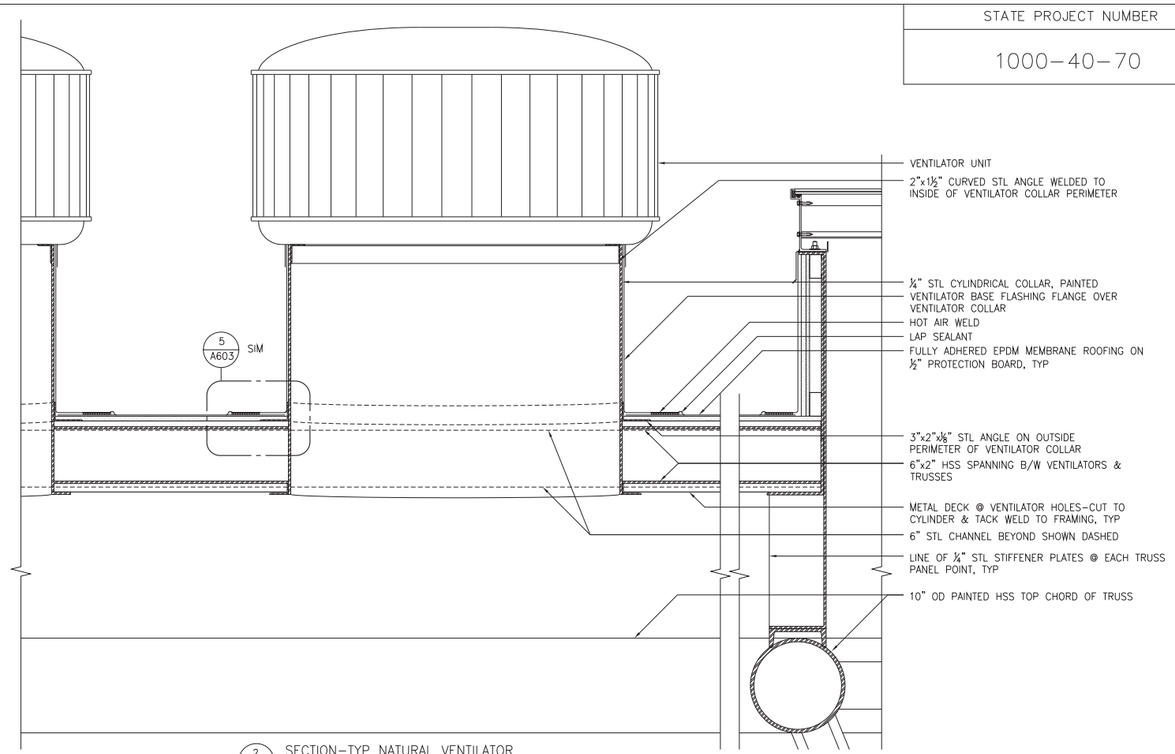


1/A602 PLAN–NATURAL VENTILATOR THROAT
SCALE: 1½"=1'-0"



2/A602 SECTION–TYP NATURAL VENTILATOR
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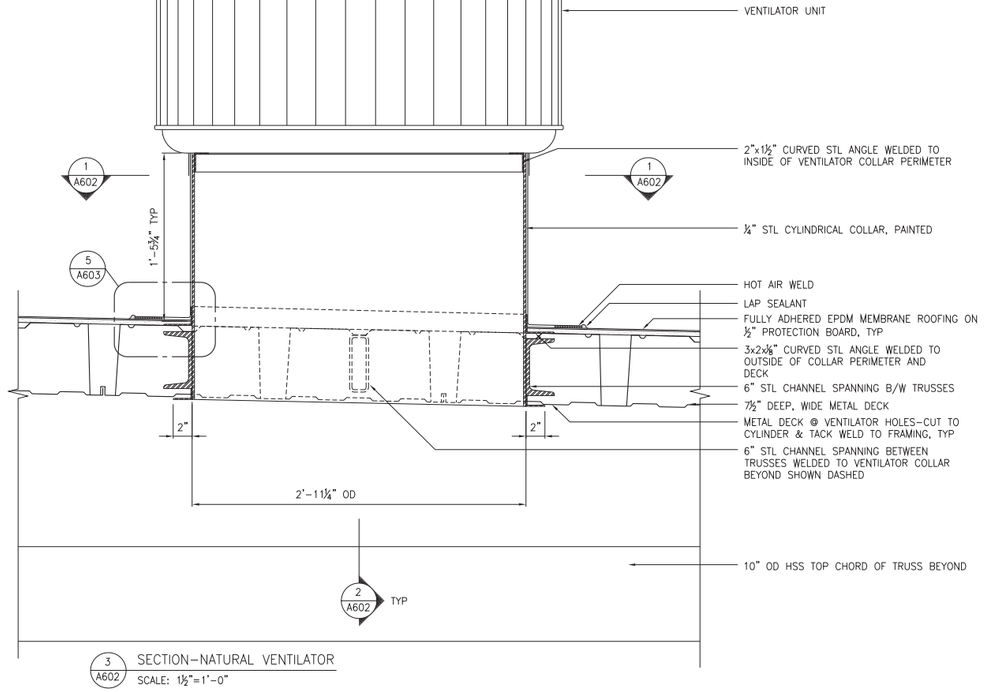

3/A602 SECTION–NATURAL VENTILATOR
SCALE: 1½"=1'-0"

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VENTILATOR DETAILS

SHEET A-602

179

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file= SCALE = 1½"=1'-0"

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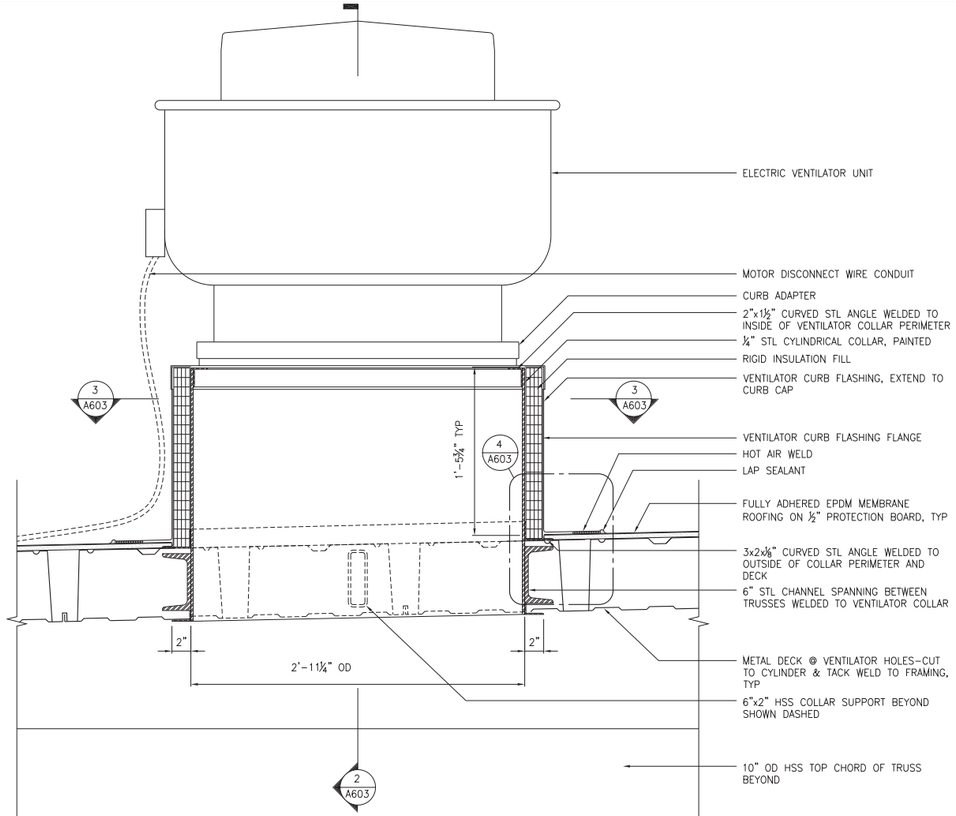
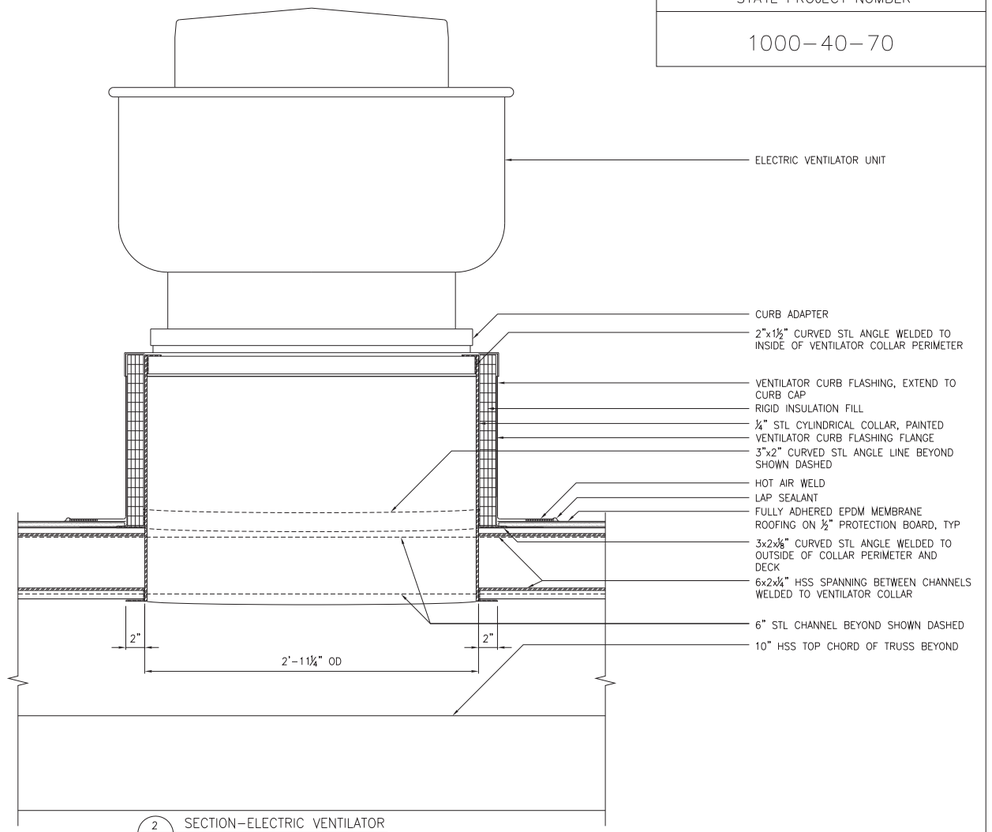
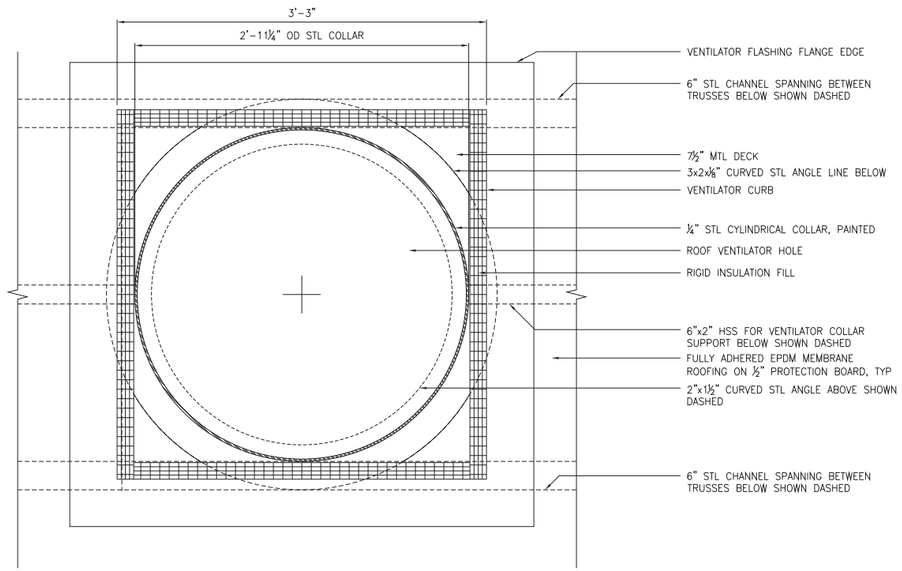


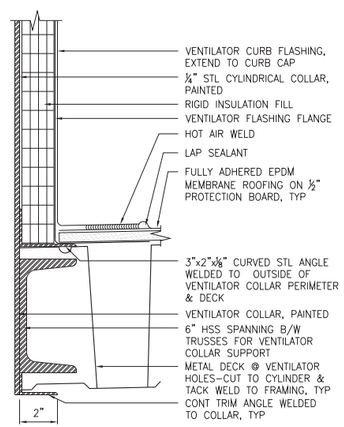
1 A603 SECTION-ELECTRIC VENTILATOR
SCALE: 1½"=1'-0"



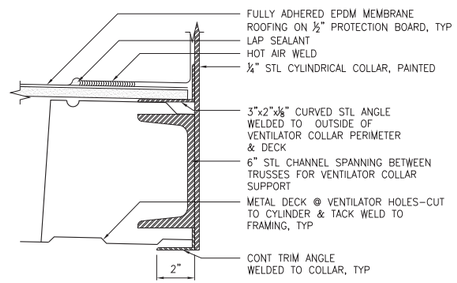
2 A603 SECTION-ELECTRIC VENTILATOR
SCALE: 1½"=1'-0"



3 A603 PLAN-ELECTRIC VENTILATOR THROAT
SCALE: 1½"=1'-0"



4 A603 SECTION DETAIL-ELECTRIC VENTILATOR CURB @ ROOF
SCALE: 3"=1'-0"



5 A603 SECTION DETAIL-NATURAL VENTILATOR BASE FLASHING FLANGE @ ROOOF
SCALE: 3"=1'-0"

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VENTILATOR DETAILS

SHEET A-603

180

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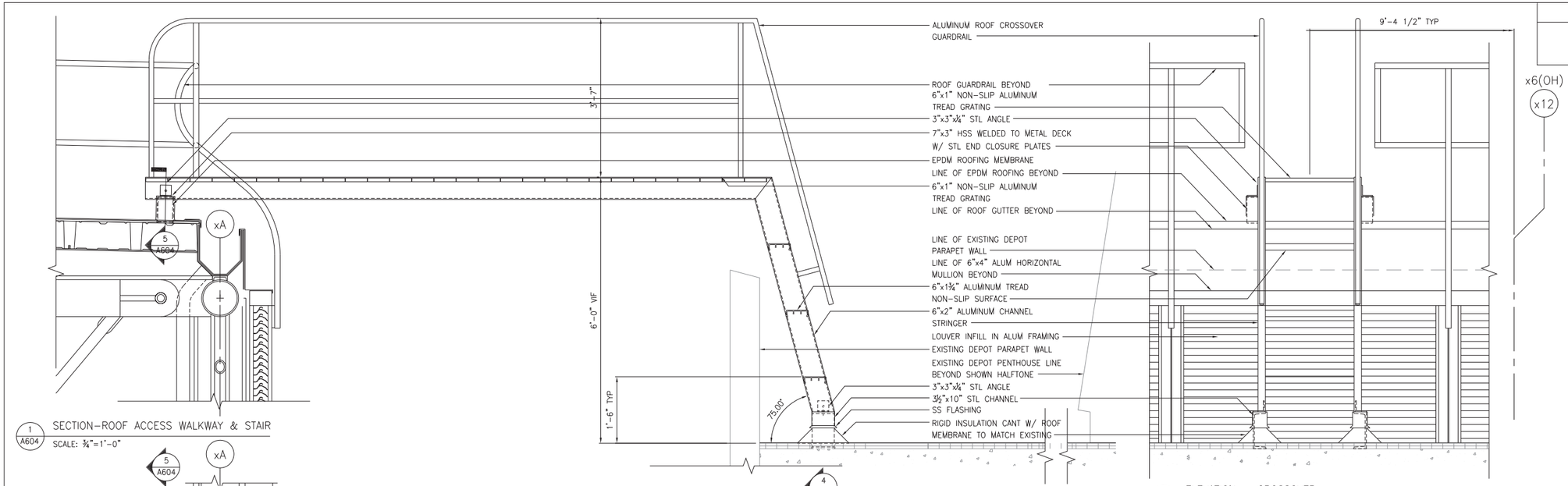
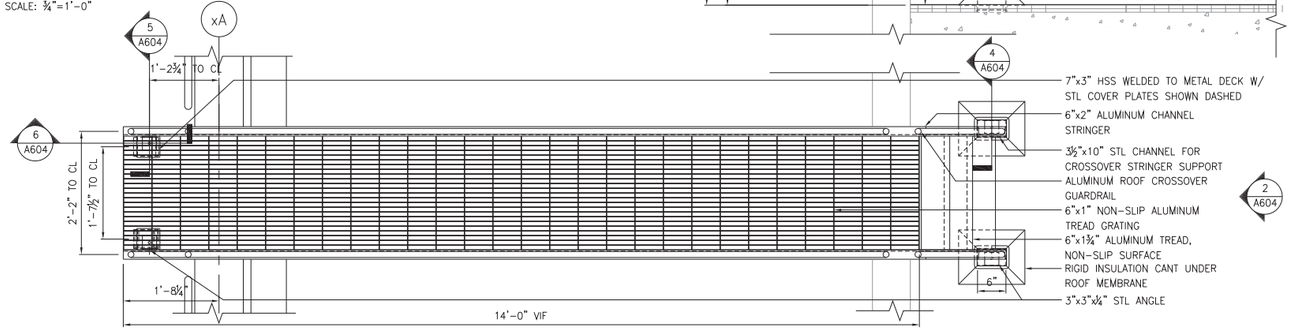


1 A604 SECTION-ROOF ACCESS WALKWAY & STAIR

SCALE: ¾"=1'-0"

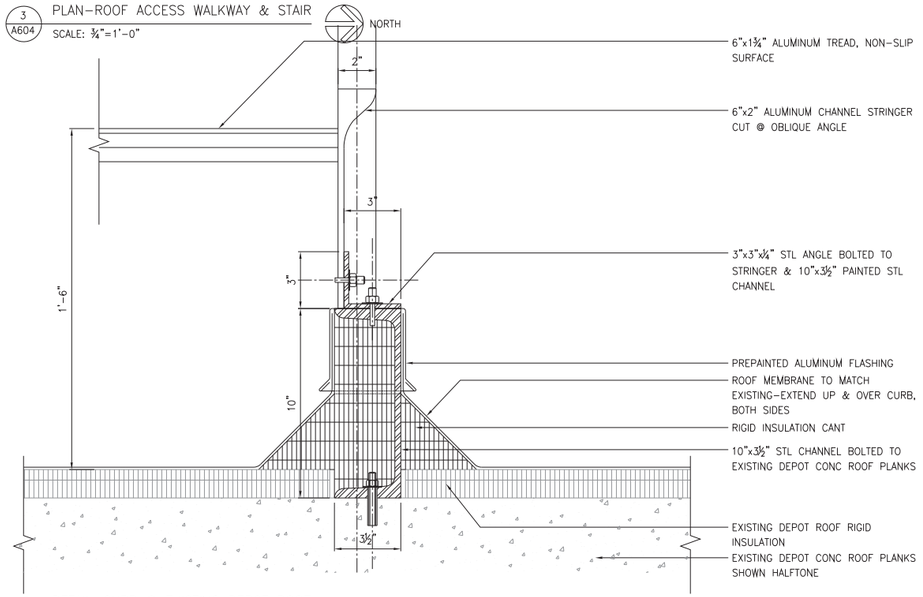
2 A604 ELEVATION - CROSSOVER

SCALE: ¾"=1'-0"



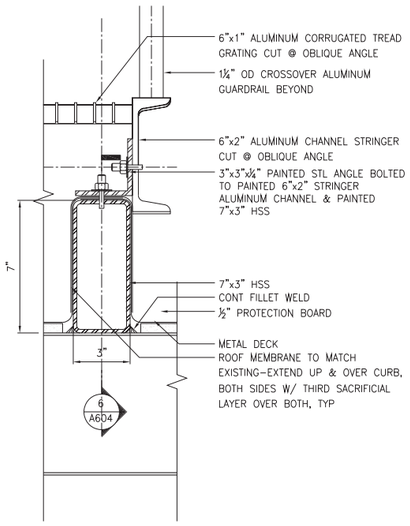
3 A604 PLAN-ROOF ACCESS WALKWAY & STAIR

SCALE: ¾"=1'-0"



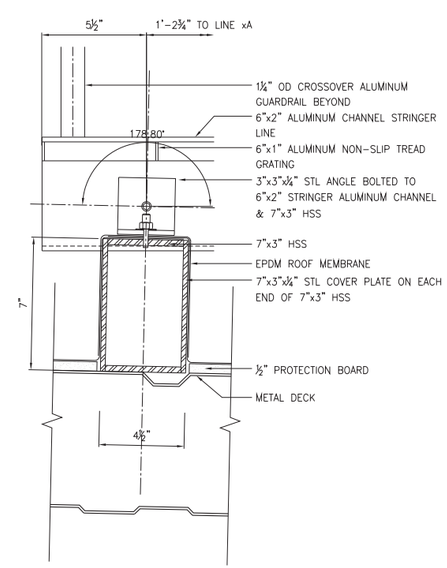
4 A604 DETAIL-CURB @ EXISTING DEPOT ROOF

SCALE: 3"=1'-0"



5 A604 SECTION-CURB @ SHED ROOF

SCALE: 3"=1'-0"



6 A604 SECTION-CURB @ SHED ROOF

SCALE: 3"=1'-0"

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

ROOF DETAILS

SHEET A-604

181

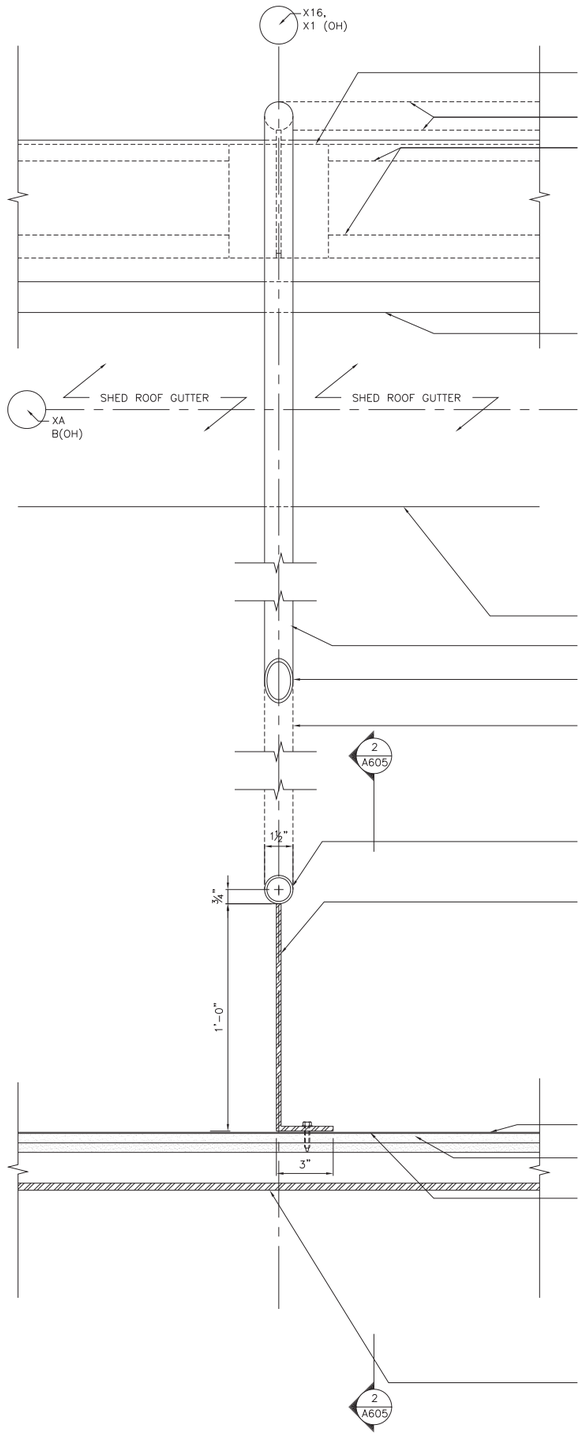
file= SCALE = AS NOTED

8

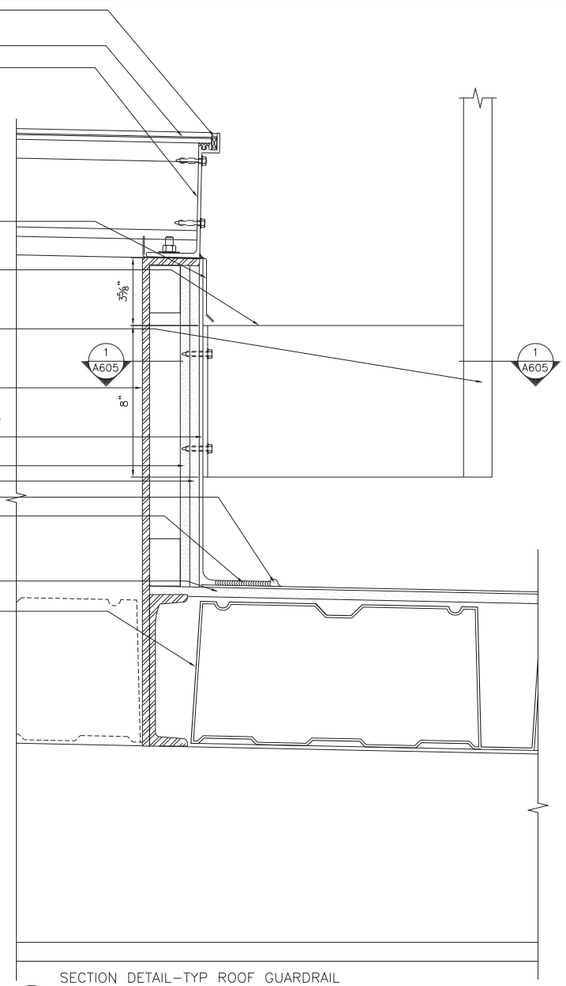
8

STATE PROJECT NUMBER

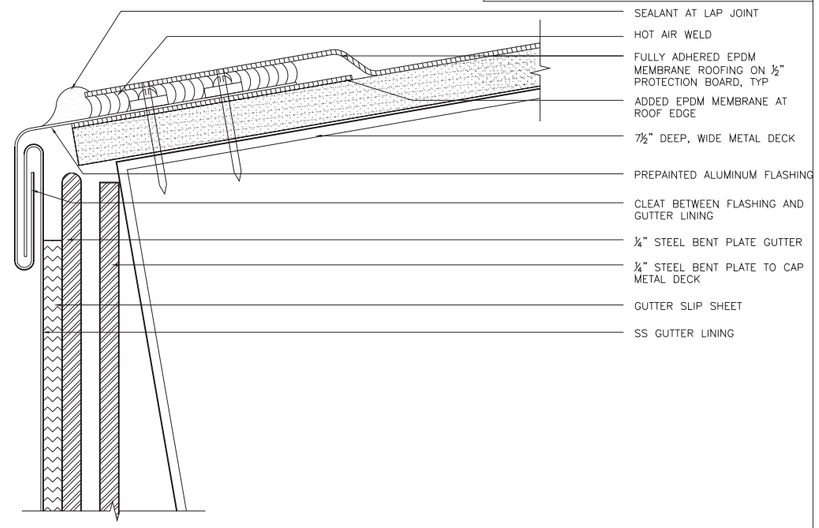
1000-40-70



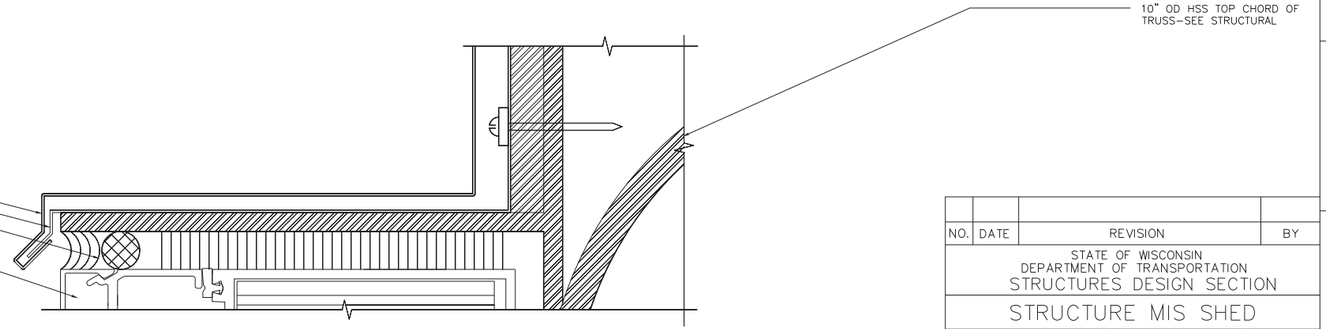
1 A605 PLAN DETAIL-TYP ROOF GUARDRAIL RETURN MOUNTING BRACKET
SCALE: 3"=1'-0"



2 A605 SECTION DETAIL-TYP ROOF GUARDRAIL RETURN MOUNTING BRACKET
SCALE: 3"=1'-0"



3 A605 DETAIL-JOINT BETWEEN GUTTER AND ROOF CONSTRUCTION
SCALE: FULL SIZE



4 A605 DETAIL-FASCIA AT END TRUSS AND TOP OF WINDOW WALL
SCALE: FULL SIZE

NO.	DATE	REVISION	BY

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ROOF DETAILS

SHEET A-605

182

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file= SCALE = AS NOTED

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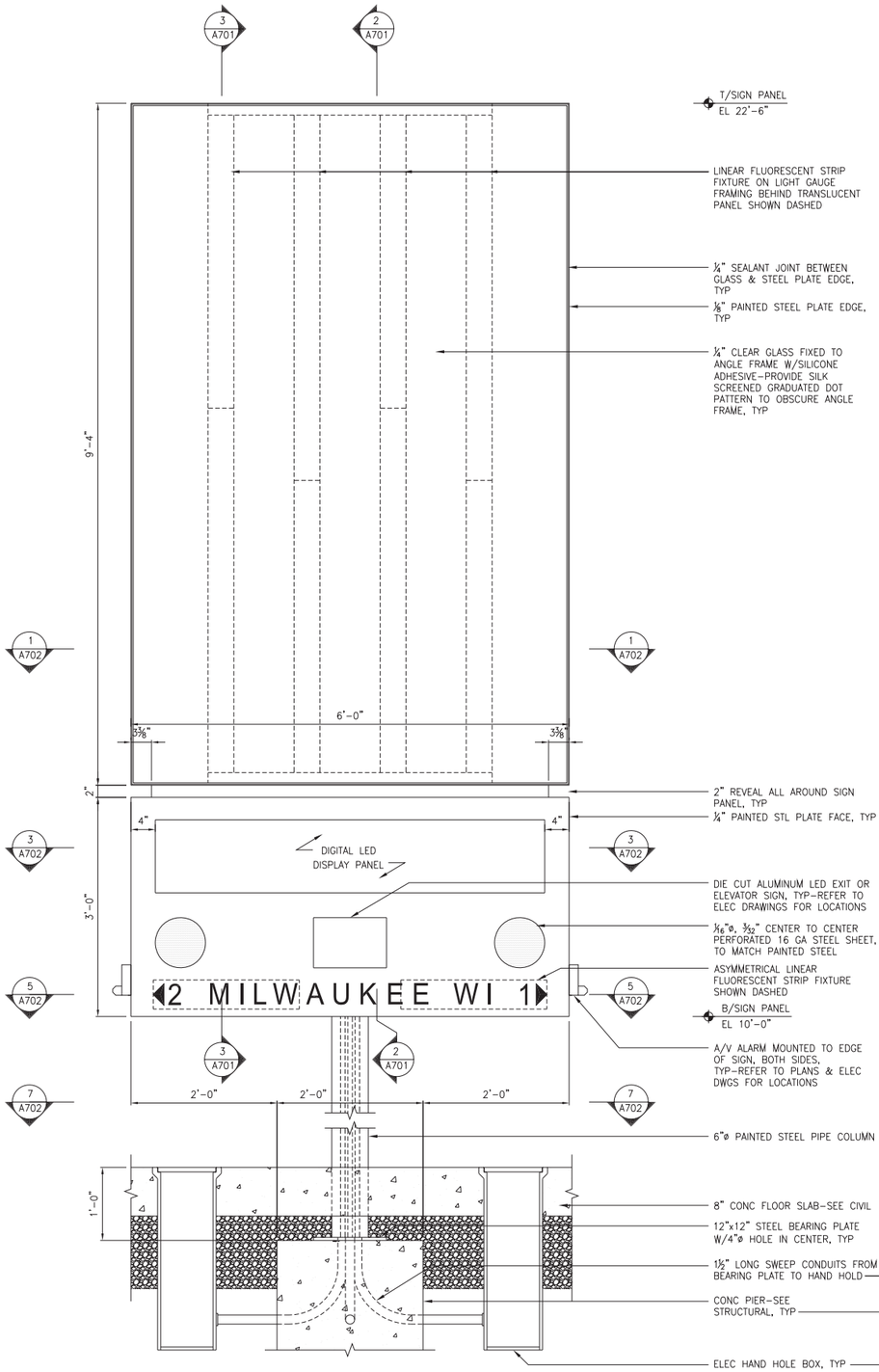
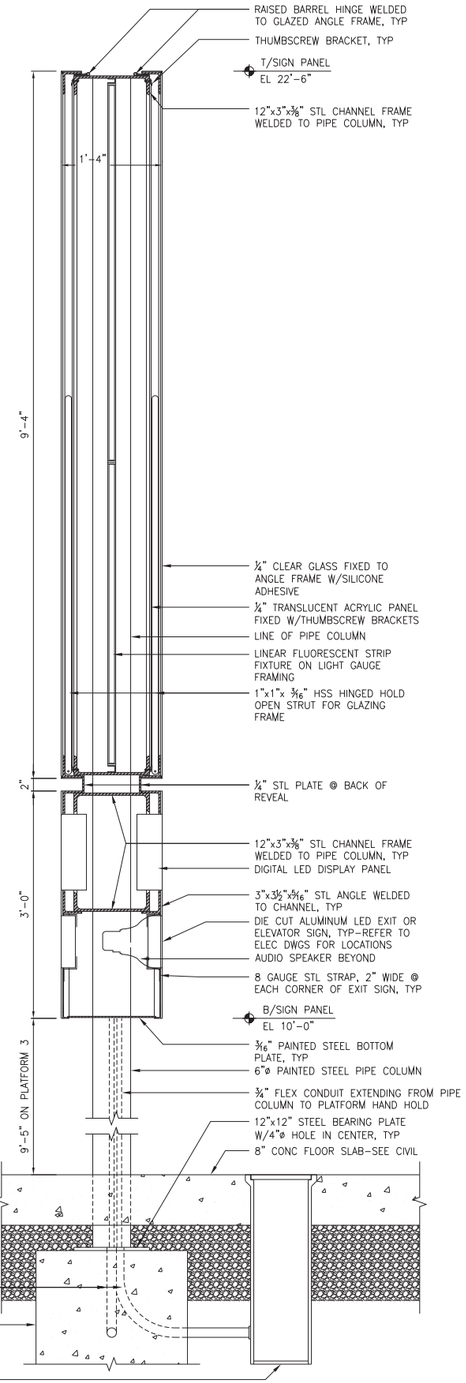


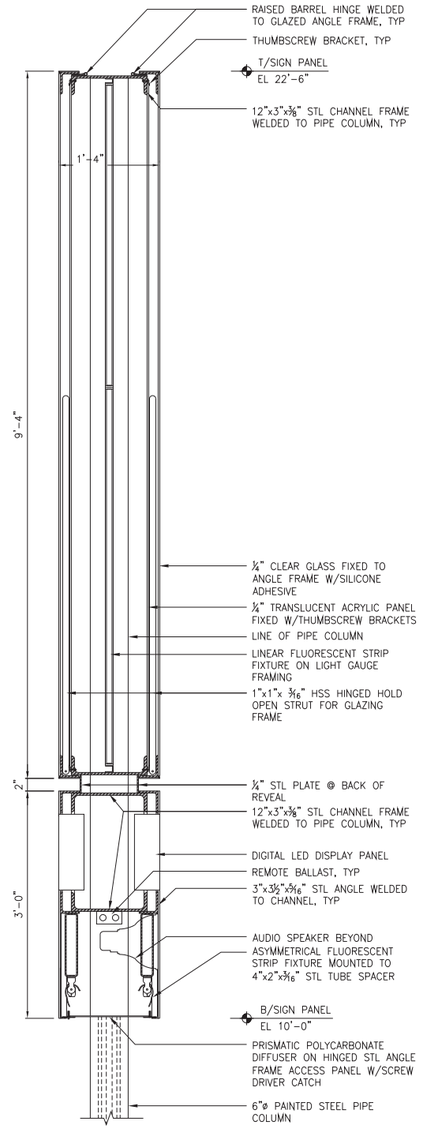
1 A701 ELEVATION-FREE STANDING SIGNAGE STANDARD

SCALE: 1"=1'-0"



2 A701 SECTION-FREE STANDING SIGNAGE STANDARD

SCALE: 1"=1'-0"



3 A701 SECTION-FREE STANDING SIGNAGE STANDARD

SCALE: 1"=1'-0"

GENERAL NOTES:

1. INSTALL JUNCTION BOXES AS REQUIRED WITHIN REACH OF ACCESS PANELS LOCATED ON THE UNDERSIDE OF SIGNS
2. ALL FABRICATION OF SIGNAGE STANDARDS TO BE PERFORMED IN SHOP INCLUDING BUT NOT LIMITED TO INSTALLATION OF: CONDUIT RUNS, CONDUIT PULL STRINGS, SPEAKERS, LED DISPLAYS, EXIT & ELEVATOR SIGNS, LIGHTING, ETC.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

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SIGNAGE DETAILS

SHEET A-701

183

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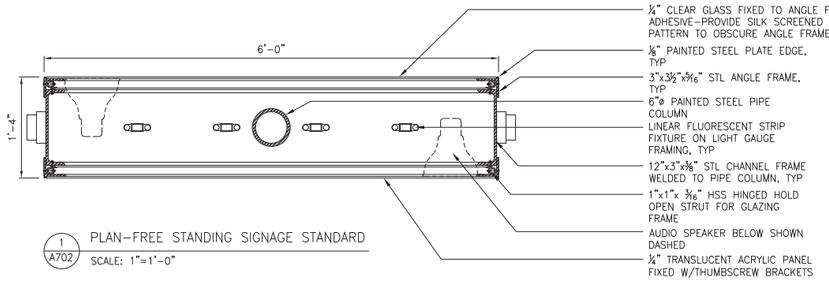
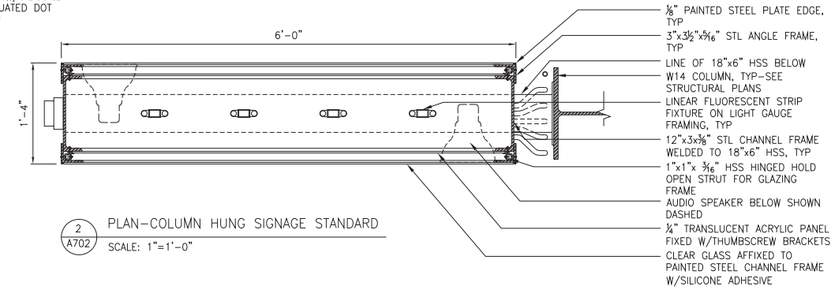
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE =1"=1'-0"

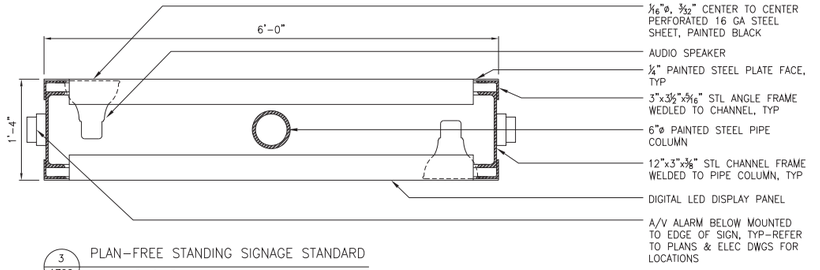
STATE PROJECT NUMBER
1000-40-70



1 A702 PLAN-FREE STANDING SIGNAGE STANDARD
SCALE: 1"=1'-0"



2 A702 PLAN-COLUMN HUNG SIGNAGE STANDARD
SCALE: 1"=1'-0"



3 A702 PLAN-FREE STANDING SIGNAGE STANDARD
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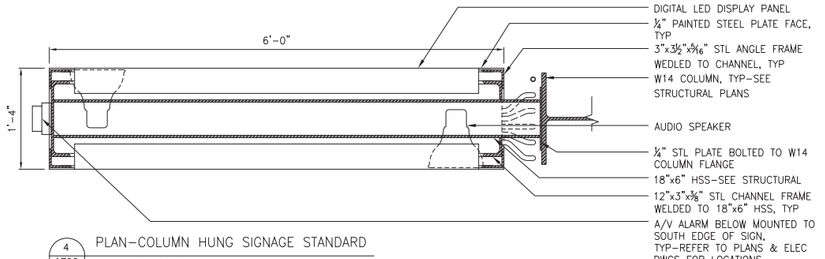
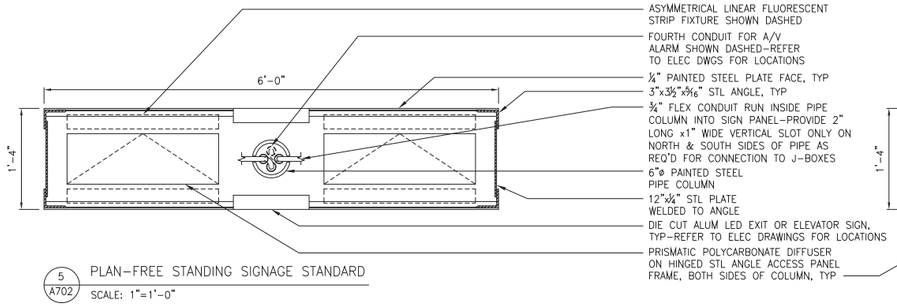
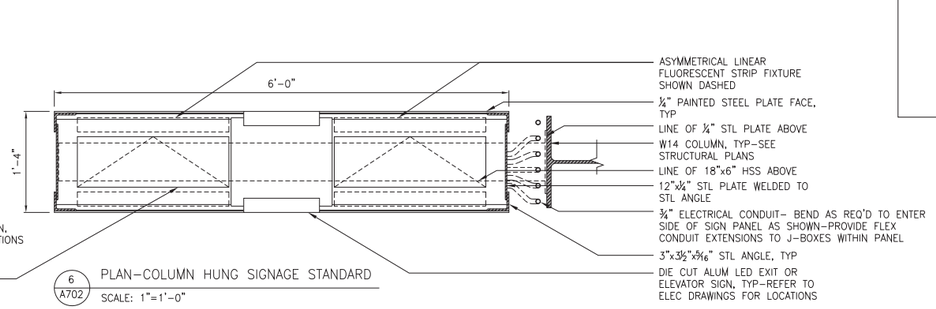


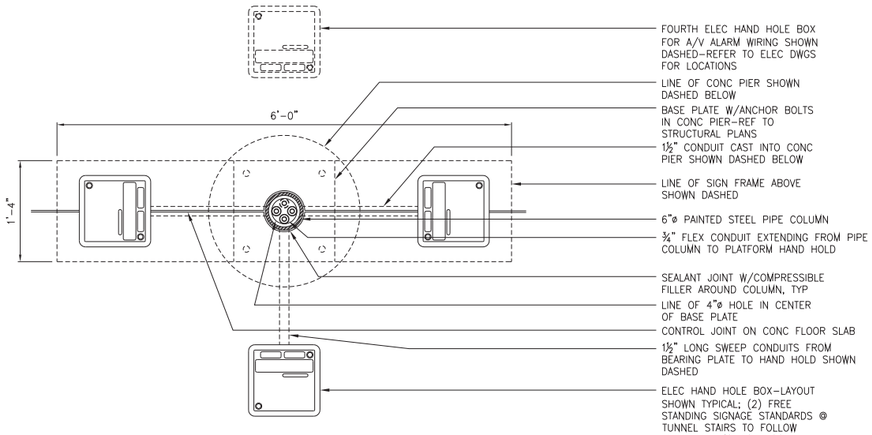
4 A702 PLAN-COLUMN HUNG SIGNAGE STANDARD
SCALE: 1"=1'-0"



5 A702 PLAN-FREE STANDING SIGNAGE STANDARD
SCALE: 1"=1'-0"



6 A702 PLAN-COLUMN HUNG SIGNAGE STANDARD
SCALE: 1"=1'-0"



7 A702 PLAN-FREE STANDING SIGNAGE STANDARD
SCALE: 1"=1'-0"

GENERAL NOTES:

1. INSTALL JUNCTION BOXES AS REQUIRED WITHIN REACH OF ACCESS PANELS LOCATED ON THE UNDERSIDE OF SIGNS
2. ALL FABRICATION OF SIGNAGE STANDARDS TO BE PERFORMED IN SHOP INCLUDING BUT NOT LIMITED TO INSTALLATION OF: CONDUIT RUNS, CONDUIT PULL STRINGS, SPEAKERS, LED DISPLAYS, EXIT & ELEVATOR SIGNS, LIGHTING, ETC.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SIGNAGE DETAILS

SHEET A-702

184

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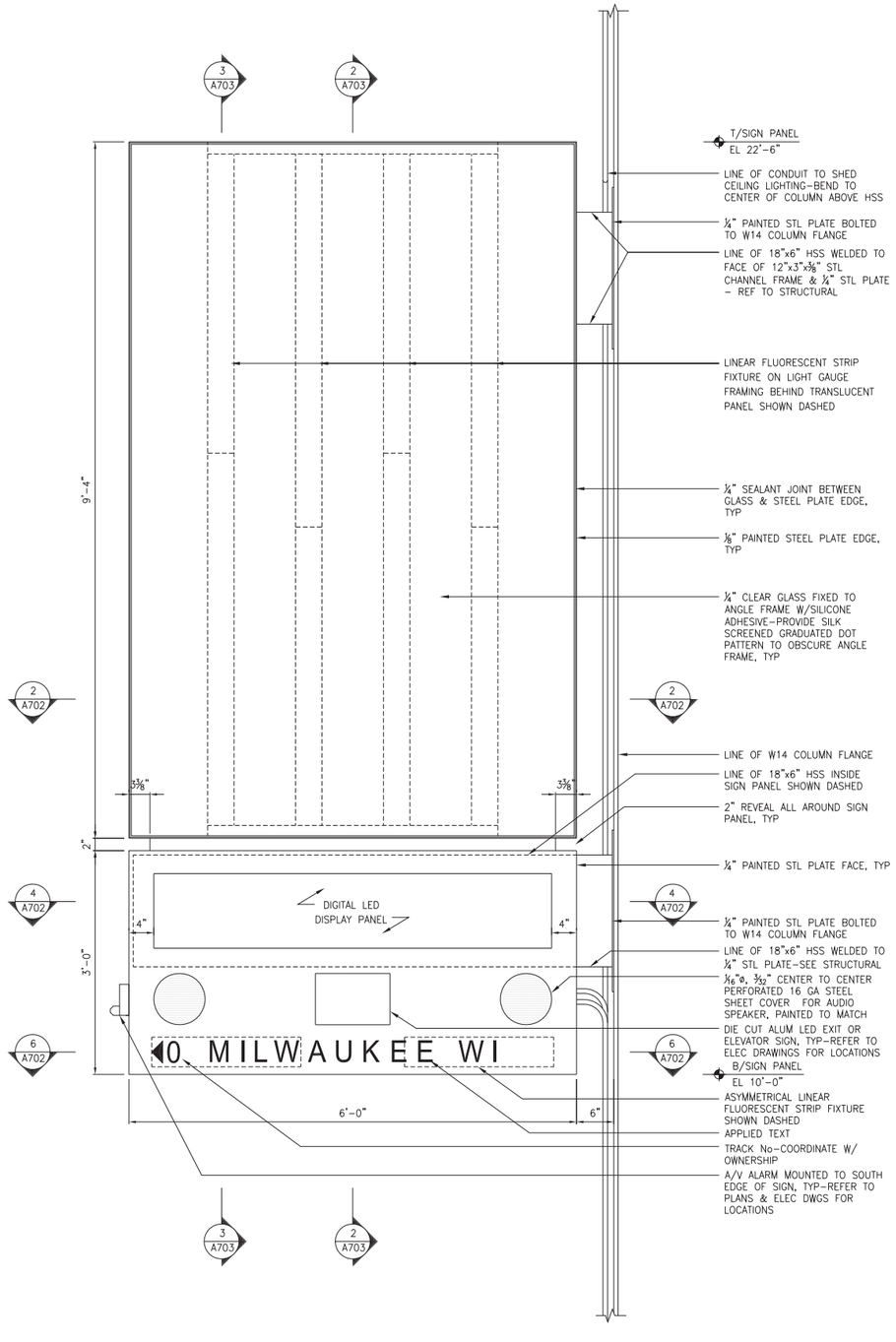
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

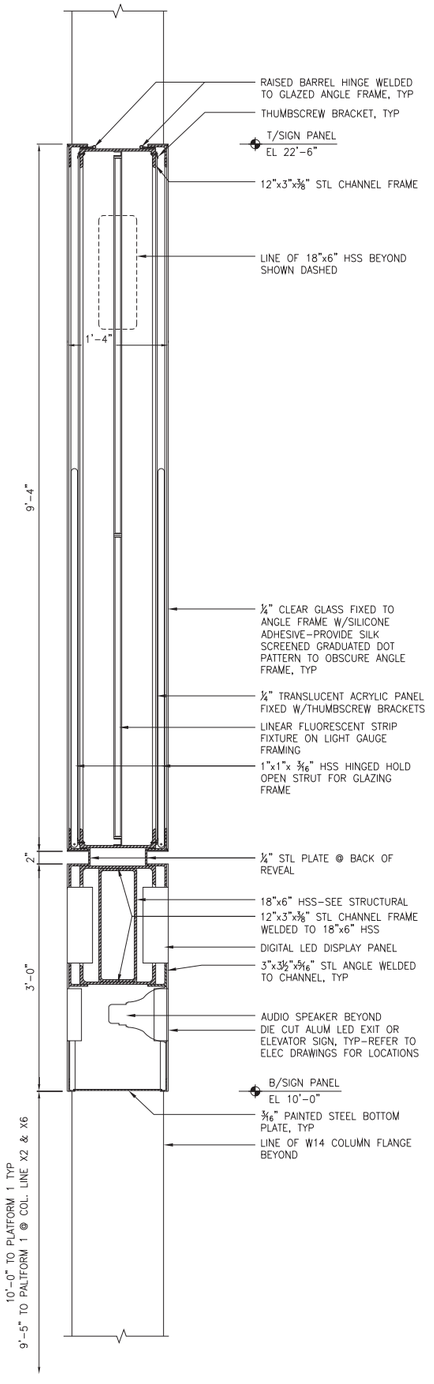
file=
SCALE =1"=1'-0"

STATE PROJECT NUMBER

1000-40-70



1 A703 ELEVATION-COLUMN HUNG SIGNAGE STANDARD
SCALE: 1"=1'-0"



2 A703 SECTION-COLUMN HUNG SIGNAGE STANDARD
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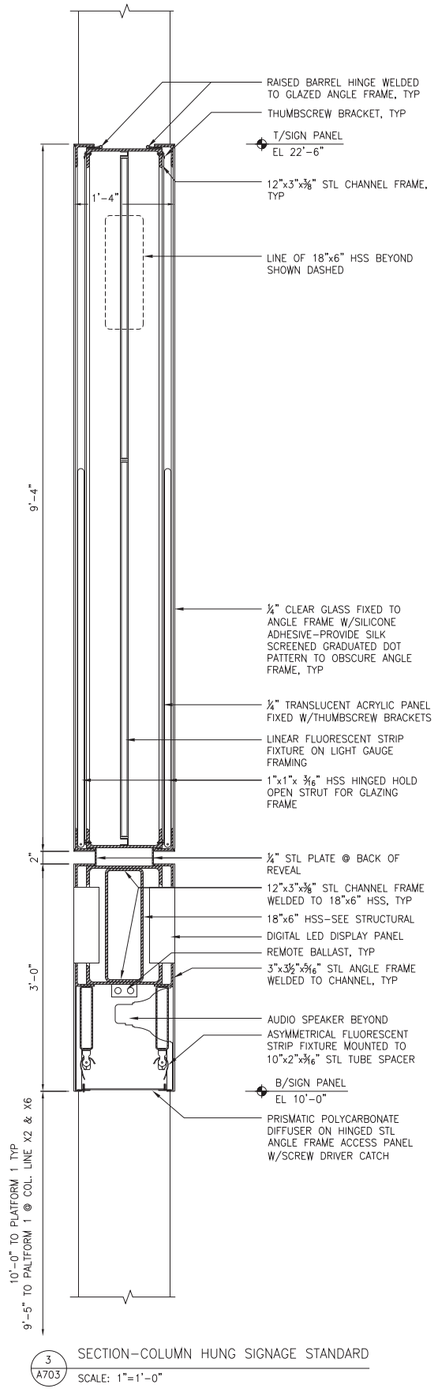


3 A703 SECTION-COLUMN HUNG SIGNAGE STANDARD
SCALE: 1"=1'-0"

GENERAL NOTES:

1. INSTALL JUNCTION BOXES AS REQUIRED WITHIN REACH OF ACCESS PANELS LOCATED ON THE UNDERSIDE OF SIGNS
2. ALL FABRICATION OF SIGNAGE STANDARDS TO BE PERFORMED IN SHOP INCLUDING BUT NOT LIMITED TO INSTALLATION OF: CONDUIT RUNS, CONDUIT PULL STRINGS, SPEAKERS, LED DISPLAYS, EXIT & ELEVATOR SIGNS, LIGHTING, ETC.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

SIGNAGE DETAILS

SHEET A-703

185

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

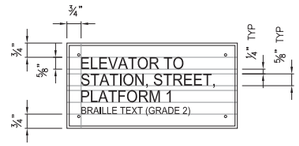
file= SCALE =1"=1'-0"

STATE PROJECT NUMBER

1000-40-70

BRAILLE SIGNAGE LEGEND

TAG	SIGNAGE CONTENT DESCRIPTION	REMARKS
1.2	TO STATION, STREET, PLATFORM 1	LOCATED ON MEZZANINE LEVEL ELEVATOR DOOR JAMB
2.2	TO PLATFORM 2	LOCATED ON MEZZANINE LEVEL ELEVATOR DOOR JAMB
3.2	TO PLATFORM 3	LOCATED ON MEZZANINE LEVEL ELEVATOR DOOR JAMB
4.2	TO STATION, STREET, PLATFORM 1	LOCATED ON MEZZANINE LEVEL GUARDRAIL
5.2	TO PLATFORM 2	LOCATED ON MEZZANINE LEVEL GUARDRAIL & STAIR CENTER WALL
6.2	TO PLATFORM 3	LOCATED ON MEZZANINE LEVEL GUARDRAIL & STAIR CENTER WALL
1.1	TO PLATFORM 2 & 3 VIA MEZZANINE	LOCATED ON PLATFORM LEVEL ELEVATOR DOOR JAMB
2.1	TO STATION, PLATFORM 1 & 3 VIA MEZZANINE	LOCATED ON PLATFORM LEVEL ELEVATOR DOOR JAMB
3.1	TO STATION, PLATFORM 1 & 2 VIA MEZZANINE	LOCATED ON PLATFORM LEVEL ELEVATOR DOOR JAMB
4.1	TO PLATFORM 2 & 3 VIA MEZZANINE	LOCATED ON STAIR CENTER WALL ON PLATFORM LEVEL
5.1	TO STATION, STREET, PLATFORM 1 & 3 VIA MEZZANINE	LOCATED ON STAIR CENTER WALL ON PLATFORM LEVEL
6.1	TO STATION, STREET, PLATFORM 1 & 2 VIA MEZZANINE	LOCATED ON STAIR CENTER WALL ON PLATFORM LEVEL
7.1	TO PLATFORMS 2 & 3 VIA TUNNEL	LOCATED ON PLATFORM LEVEL STAIR GUARDRAIL & DEPOT WALL
8.1	TO STATION, STREET, PLATFORM 1 & 3 VIA TUNNEL	LOCATED ON PLATFORM LEVEL STAIR GUARDRAIL
9.1	TO STATION, STREET, PLATFORMS 1 & 2 VIA TUNNEL	LOCATED ON PLATFORM LEVEL STAIR GUARDRAIL
10.1	TO STREET	LOCATED ON EXISTING DEPOT WALL
11.1	TO STATION	LOCATED ON SIDE GLASS PANEL OF AUTOMATIC DOOR
12.1	TO PLATFORMS	LOCATED ON SIDE GLASS PANEL OF AUTOMATIC DOOR
13.1	EMERGENCY EXIT ONLY ALARM WILL SOUND	LOCATED ON EAST & WEST EGRESS DOORS
7.0	TO PLATFORM 1	LOCATED ON TUNNEL WALL
8.0	TO PLATFORM 2	LOCATED ON TUNNEL WALL
9.0	TO PLATFORM 3	LOCATED ON TUNNEL WALL



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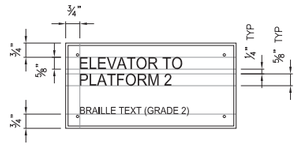

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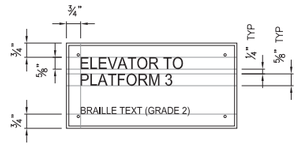

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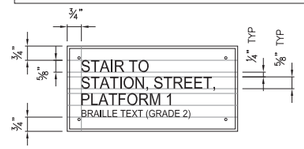

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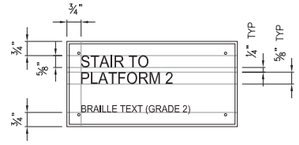

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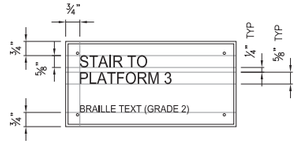

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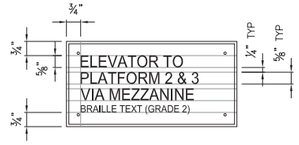

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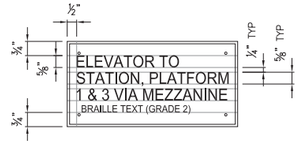

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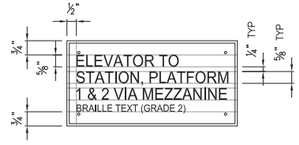

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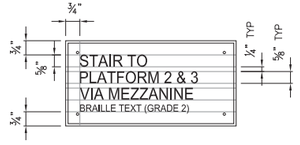

SIGN TYPE 4.1
3"=1'-0"

SIGN TYPE 5.1
3"=1'-0"

SIGN TYPE 6.1
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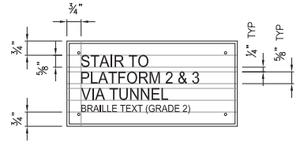

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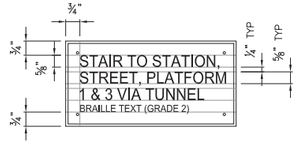

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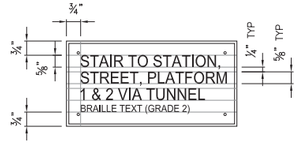

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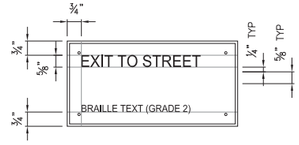

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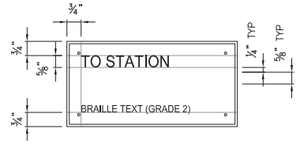

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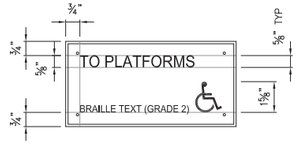

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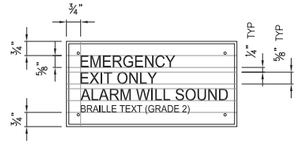

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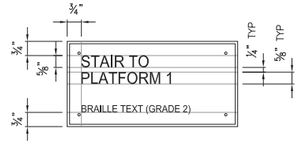

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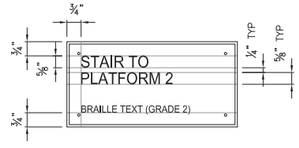

SIGN TYPE 8.0
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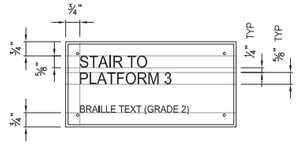

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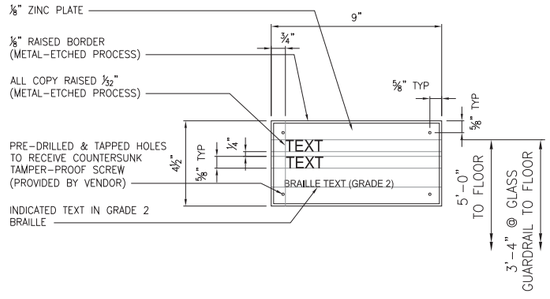

1 / A704 TYPICAL 4½"x9" SIGN PLAQUE
SCALE: 3"=1'-0"

2 / A704 4½"x9" SIGN PLAQUE GRAPHICS
SCALE: 3"=1'-0"

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SIGNAGE DETAILS

SHEET A-704

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file= SCALE =3"=1'-0"

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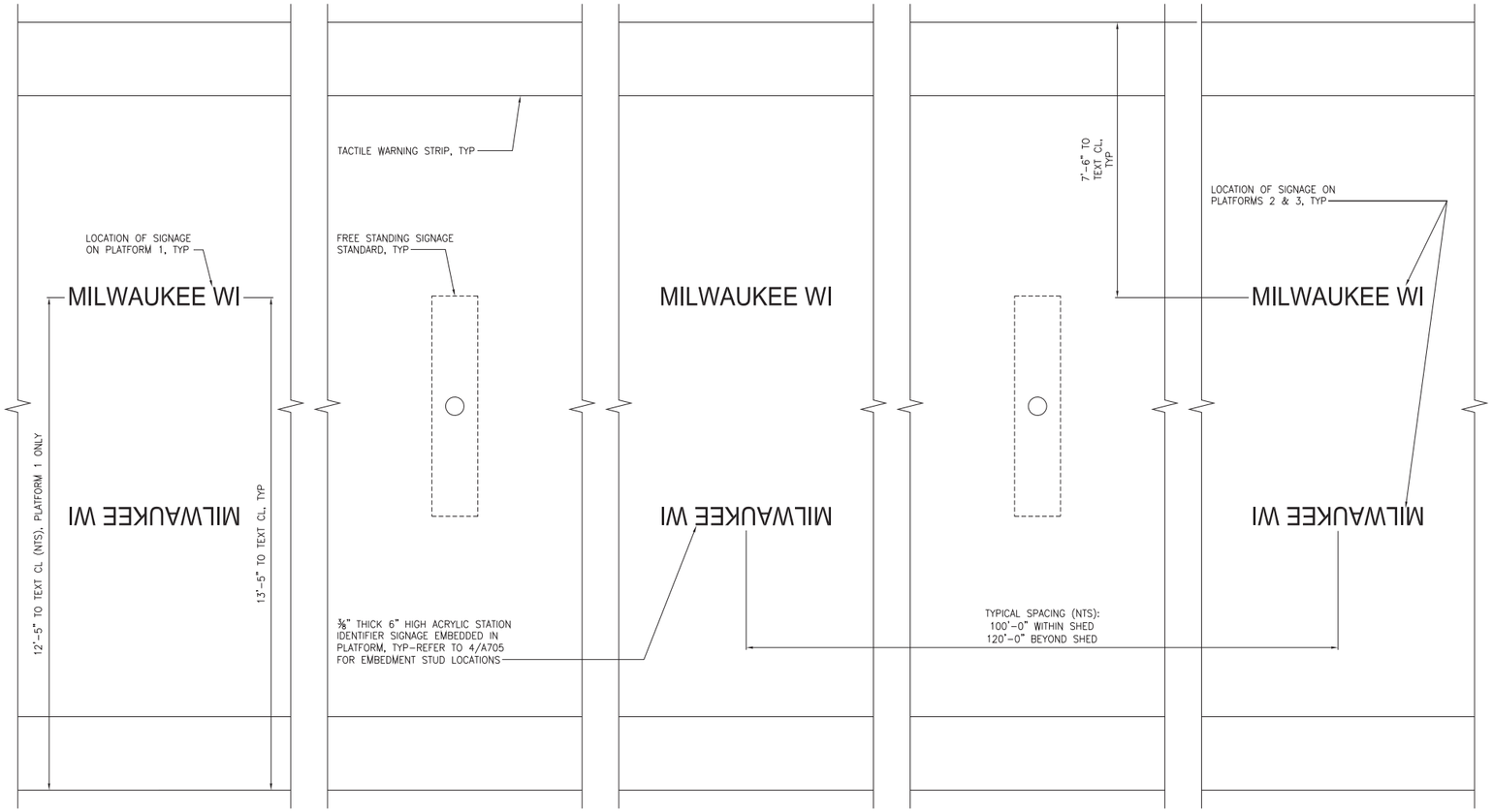
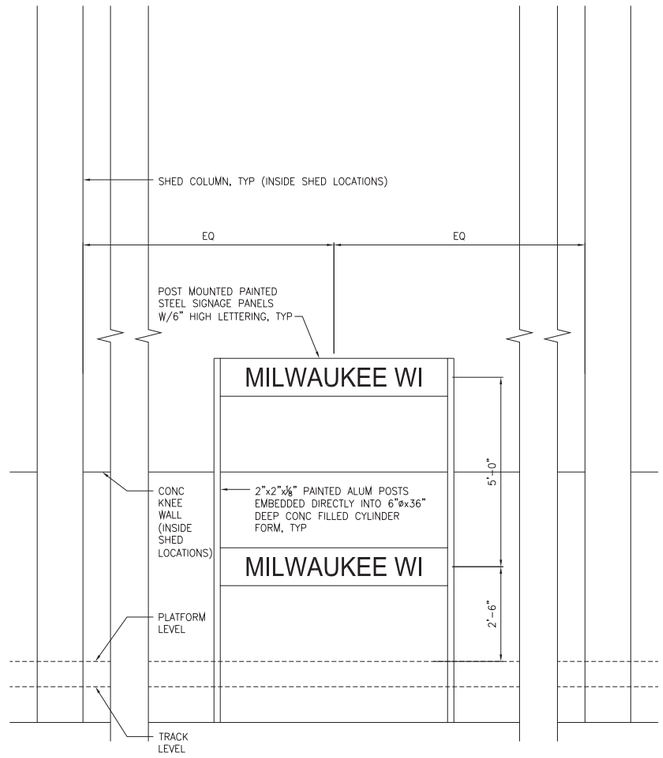


1 A705 DETAIL PLAN-PLATFORM FLOOR SIGNAGE
SCALE: ½"=1'-0"



2 A705 ELEVATION-POST MOUNTED SIGN PANELS
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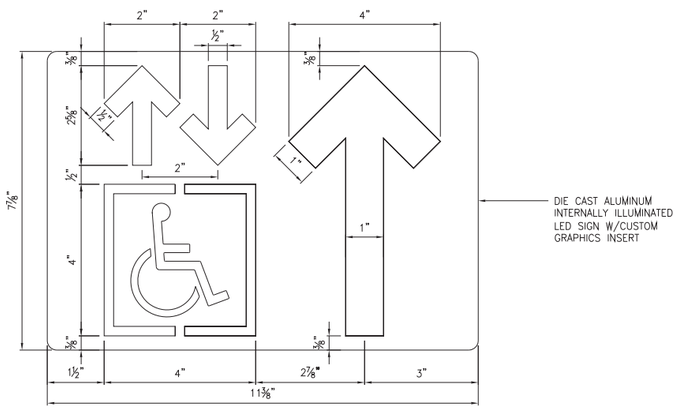
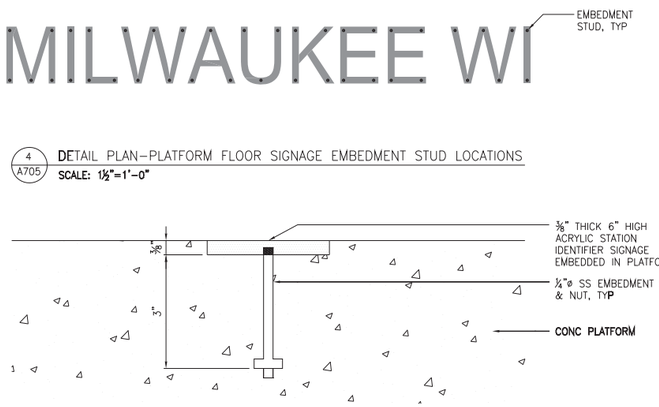


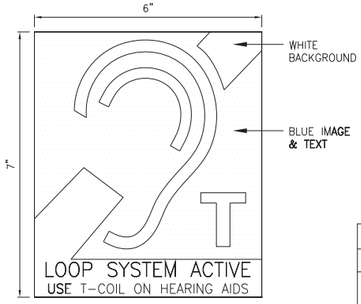
3 A705 ELEVATOR SIGN
SCALE: 6"=1'-0"

MILWAUKEE WI



4 A705 DETAIL PLAN-PLATFORM FLOOR SIGNAGE EMBEDMENT STUD LOCATIONS
SCALE: 1½"=1'-0"

5 A705 SECTION-PLATFORM FLOOR SIGNAGE EMBEDMENT STUD
SCALE: 6"=1'-0"



6 A705 HEARING LOOP SIGN
SCALE: 6"=1'-0"

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SIGNAGE DETAILS

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187

file= SCALE = ½"=1'-0" UNO

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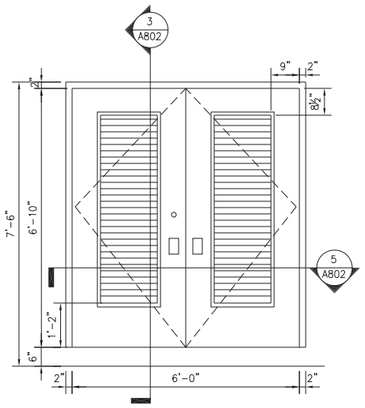

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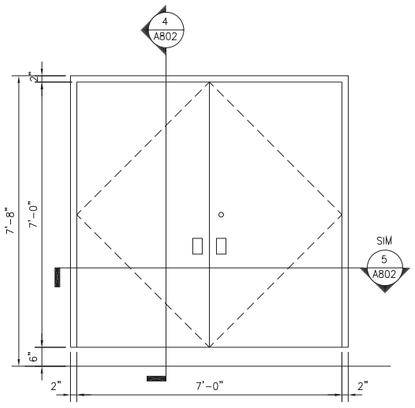

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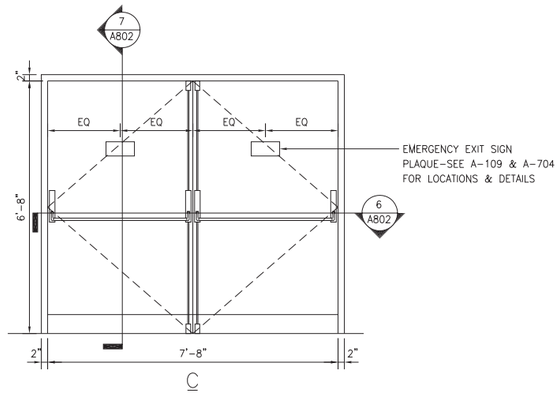

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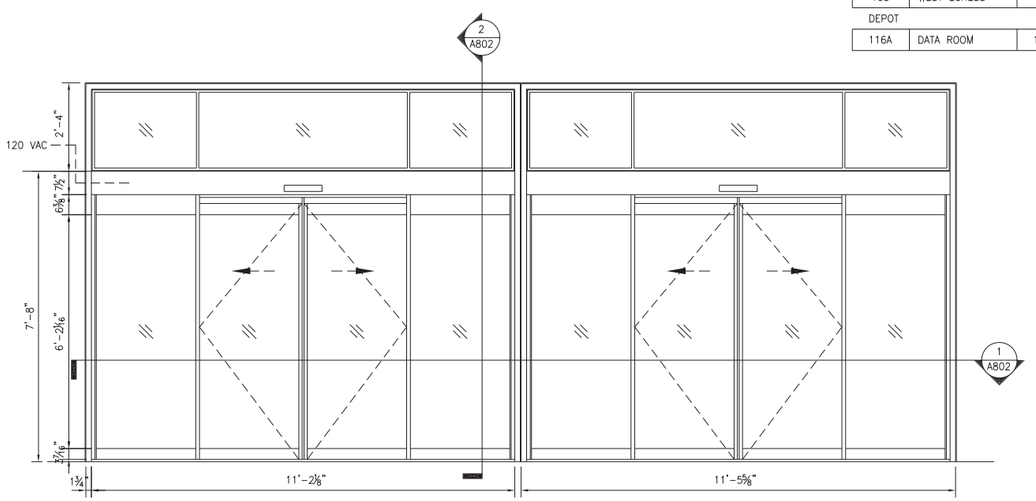
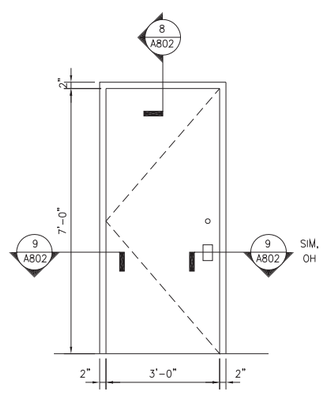


1 A801 DOOR ELEVATIONS
SCALE: ½"=1'-0"

D



E

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	WALL MATERIAL / WALL FINISH				WALL BASE	FLOORING	CEILING	REMARKS & KEYNOTES
		NORTH	SOUTH	EAST	WEST				
TUNNEL LEVEL									
001	TUNNEL	CONC/EPT	CONC/EPT	CONC/EPT	CONC/EPT	NA	CONC	CONC/EPT	
002	ELEC ROOM	CONC/EPT	CONC/EPT	CONC/EPT	CONC/EPT	NA	CONC*	CONC/EPT	*TROWEL FINISH CONCRETE
003	ELEC ROOM	CONC/EPT	CONC/EPT	CONC/EPT	CONC/EPT	NA	CONC*	CONC/EPT	*TROWEL FINISH CONCRETE
004	SUMP ROOM	CONC/EPT	CONC/EPT	CONC/EPT	CONC/EPT	NA	CONC*	CONC/EPT	*TROWEL FINISH CONCRETE
STW1	TUNNEL STAIR	CONC,EPT/ALUM,GLZG	CONC,EPT/ALUM,GLZG	NA	NA	NA	CONC	NA	
STW2	TUNNEL STAIR	CONC,EPT/ALUM,GLZG	CONC,EPT/ALUM,GLZG	NA	NA	NA	CONC	NA	
STW3	TUNNEL STAIR	CONC,EPT/ALUM,GLZG	CONC,EPT/ALUM,GLZG	NA	NA	NA	CONC	NA	
STW4	TUNNEL STAIR	CONC,EPT/ALUM,GLZG	CONC,EPT/ALUM,GLZG	NA	CONC/EPT	NA	CONC	NA	
PLATFORM LEVEL									
101	MACHINE ROOM	CEMBD/EPT	CEMBD/EPT	CEMBD/EPT	*SEE NOTE	NA	CONC	*SEE NOTE	WEST WALL & CEILING UNDERSIDE OF ESCALATOR
102	MACHINE ROOM	CEMBD/EPT	CEMBD/EPT	CEMBD/EPT	*SEE NOTE	NA	CONC	*SEE NOTE	WEST WALL & CEILING UNDERSIDE OF ESCALATOR
103	MACHINE ROOM	CEMBD/EPT	CEMBD/EPT	CEMBD/EPT	*SEE NOTE	NA	CONC	*SEE NOTE	WEST WALL & CEILING UNDERSIDE OF ESCALATOR
ES1	ESCALATOR PAIR	ALUM, GLZG	ALUM, GLZG	NA	NA	NA	ALUM	NA	
ES2	ESCALATOR PAIR	ALUM, GLZG	ALUM, GLZG	NA	NA	NA	ALUM	NA	
ES3	ESCALATOR PAIR	ALUM, GLZG	ALUM, GLZG	NA	NA	NA	ALUM	NA	
STE1	MEZZANINE STAIR	ALUM**, GLZGR	ALUM**, GLZGR	GLZGR	GLZGR	NA	CONC	NA	**PRE-FINISHED
STE2	MEZZANINE STAIR	ALUM**, GLZGR	ALUM**, GLZGR	GLZGR	GLZGR	NA	CONC	NA	**PRE-FINISHED
STE3	MEZZANINE STAIR	ALUM**, GLZGR	ALUM**, GLZGR	GLZGR	GLZGR	NA	CONC	NA	**PRE-FINISHED
MEZZANINE LEVEL									
201	MEZZANINE	NA	CORRUGATED METAL	ALUM, GLZGR	ALUM, GLZGR	NA	CONC***	NA	***BROOM FINISHED CONCRETE
DEPOT									
116A	DATA ROOM	HIR GB / EXISTING	HIR GB / EXISTING	HIR GB / EXISTING	**HIR GB / EXISTING**	**NA**	**RB / EXISTING**	**EXSTNG / PATCHING**	**PROVIDE CEILING ACCESS PANELS AS SHOWN ON RCP**

DOOR SCHEDULE

DOOR NO.	ROOM NAME	ROOM NO.	DOOR OPENING SIZE (W) x (H) x (DOOR THICKNESS)	SWING	LABEL	MATERIAL DOOR / FRAME	ELEV TYPE	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE SET	REMARKS & KEYNOTES
TUNNEL												
001	ELECTRIC ROOM	002	6'-0" x 6'-10" x 1¾"	RHA	--	AL/AL	A	3/A-802	5/A-802	3/A-802	4	
002	ELECTRIC ROOM	003	6'-0" x 6'-10" x 1¾"	RHA	--	AL/AL	A	3/A-802	5/A-802	3/A-802	4	
003	SUMP ROOM	004	6'-0" x 6'-10" x 1¾"	RHRA	--	AL/AL	A	3/A-802	5/A-802	3/A-802	3	
PLATFORM												
100A	EXISTING DEPOT	--	5'-5⅝" x 7'-8" x 1¾" + SIDE PANELS & TRANSOM	PAIR, SLIDING	--	AL, GLAZING/AL	D	2/A-802	1/A-802	2/A-802	--	
100B	EXISTING DEPOT	--	5'-5⅝" x 7'-8" x 1¾" + SIDE PANELS & TRANSOM	PAIR, SLIDING	--	AL, GLAZING/AL	D	2/A-802	1/A-802	2/A-802	--	
101	MACHINE ROOM	101	7'-0" x 7'-0" x 1¾"	RHRA	--	AL/AL*	B	4/A-802	6/A-802	4/A-802	2	*INSULATED DOOR & FRAME
102	MACHINE ROOM	102	7'-0" x 7'-0" x 1¾"	RHRA	--	AL/AL*	B	4/A-802	6/A-802	4/A-802	2	*INSULATED DOOR & FRAME
103	MACHINE ROOM	103	7'-0" x 7'-0" x 1¾"	RHRA	--	AL/AL*	B	4/A-802	6/A-802	4/A-802	2	*INSULATED DOOR & FRAME
104	EAST EGRESS	--	7'-8" x 6'-8" x 1¾"	PAIR	--	AL/AL	C	7/A802	5/A-503	7/A802	1	
105	WEST EGRESS	--	7'-8" x 6'-8" x 1¾"	PAIR	--	AL/AL	C	7/A802	5/A-503	7/A802	1	
DEPOT												
116A	DATA ROOM	116A	3'-0" x 7'-0" x 1¾"	LH	--	AL/AL	E	8/A802	9/A802	--	5	

ROOM FINISH SCHEDULE ABBREVIATIONS:

CEMBD	CEMENT BOARD
CONC	CONCRETE
HIR GB	HIGH IMPACT RESISTANT GYPSUM BOARD
GLZG	GLAZING
GLZGR	GLAZED GUARDRAIL
EPT	EPOXY PAINT
RB	RESILIENT BASE

DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
HM	HOLLOW METAL
INSUL	INSULATED
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHRA	LEFT HAND REVERSE ACTIVE
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RHRA	RIGHT HAND REVERSE ACTIVE
STL	STEEL

DOOR SCHEDULE NOTES

1. ANY LABELED DOOR IS TO RECEIVE A CLOSER (CBC13-160-220)
2. ALL **EXIT DOORS MUST BE** KEYLESS IN THE DIRECTINO OF EGR**ESS (CBC13-160-260)**
3. ALL GLAZED DOORS, AND ANY GL**AZED PANEL MORE THAN 18 INCHES IN WIDTH IMMEDIATELY** ADJACENT TO ANY DOOR WHEREIN THE SILL OF SUCH GLAZED PANEL IS LESS THAN 24 INCHES ABOVE THE FLO**OR SHALL BE CONSIDERED** "HAZARDOUS LOCATIONS" AND SHALL BE GLAZED WITH SAFETY GLAZIN**G MATERIALS.** (CBC13-124-350)

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DOOR & ROOM FINISH SCHEDULES

SHEET A-801

188

file=

SCALE = AS NOTED

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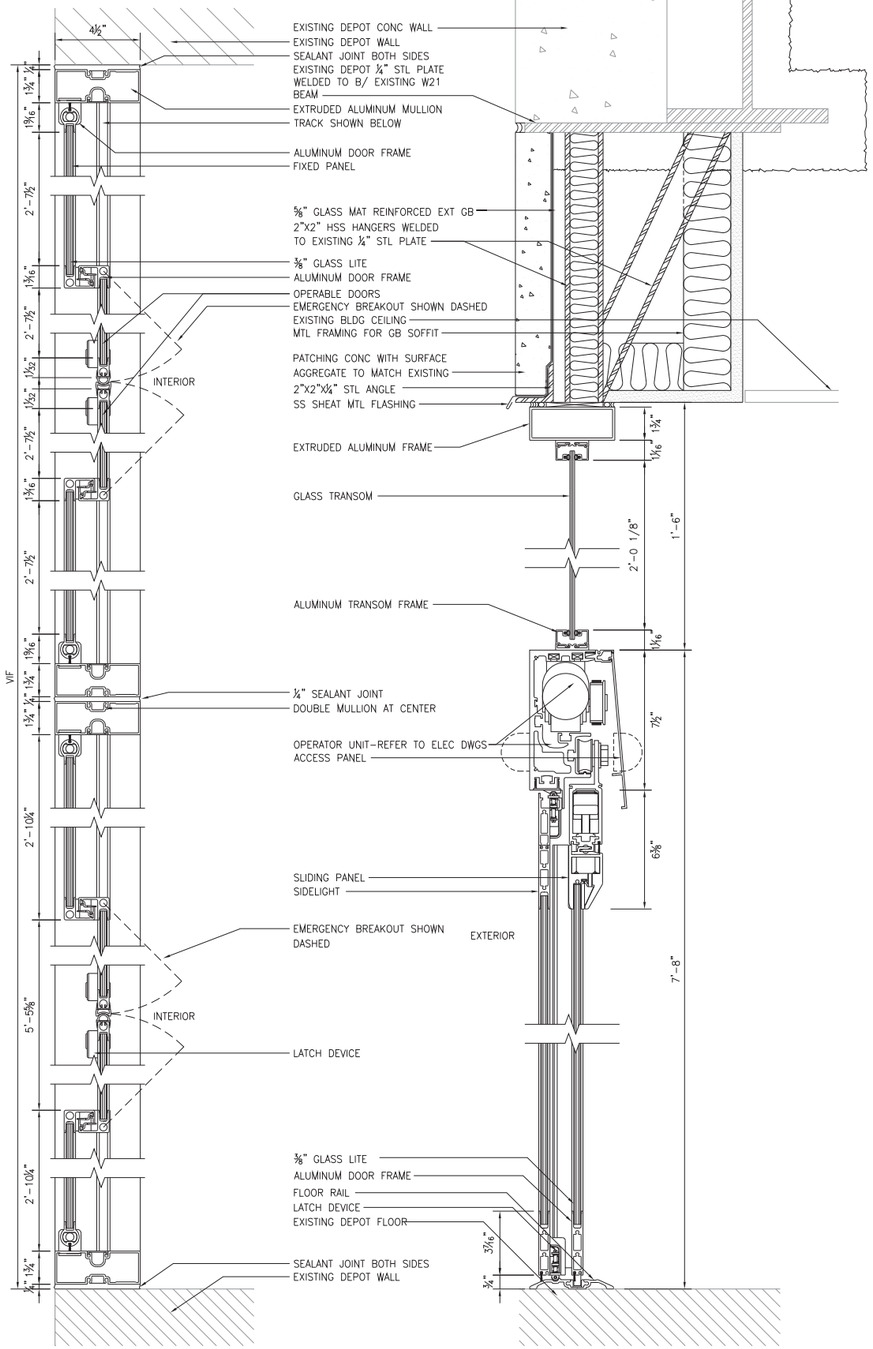
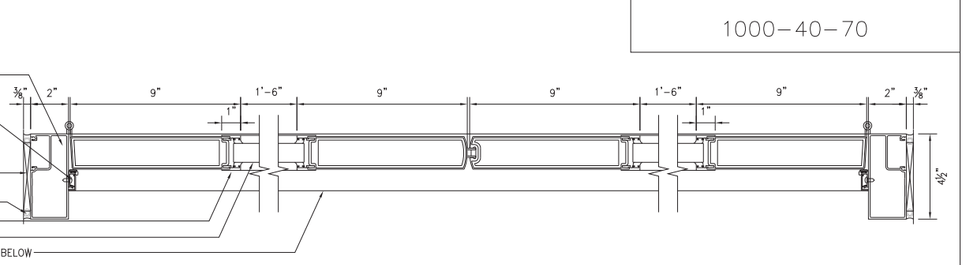
1000-40-70



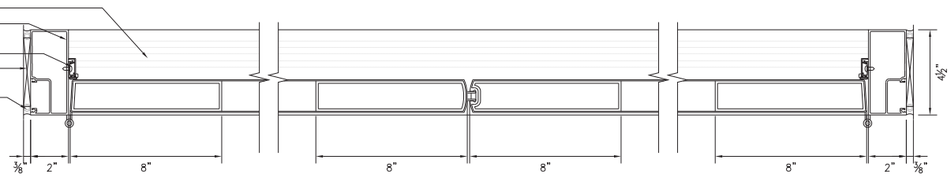
1 A802 PLAN-AUTOMATIC DOOR
SCALE: 3"=1'-0"

2 A802 SECTION-AUTOMATIC DOOR HEAD/SILL
SCALE: 3"=1'-0"

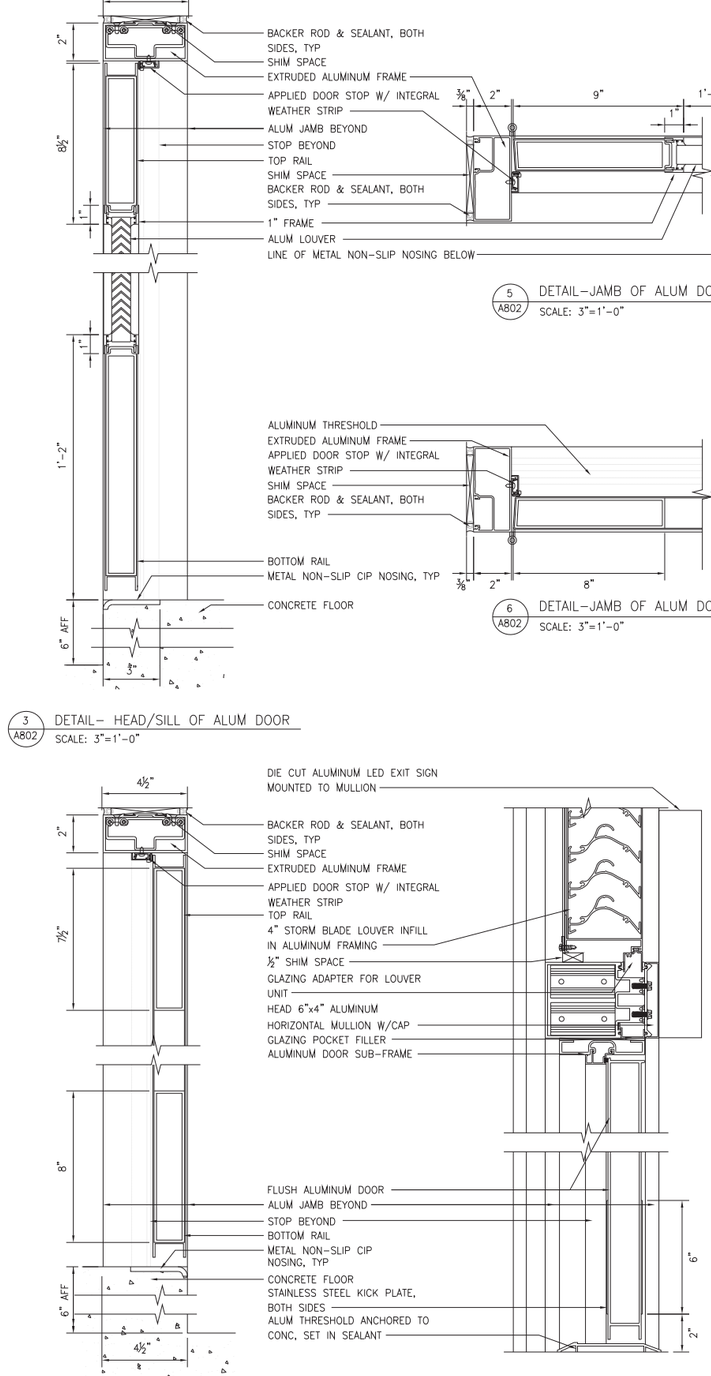
3 A802 DETAIL- HEAD/SILL OF ALUM DOOR
SCALE: 3"=1'-0"



5 A802 DETAIL-JAMB OF ALUM DOOR
SCALE: 3"=1'-0"

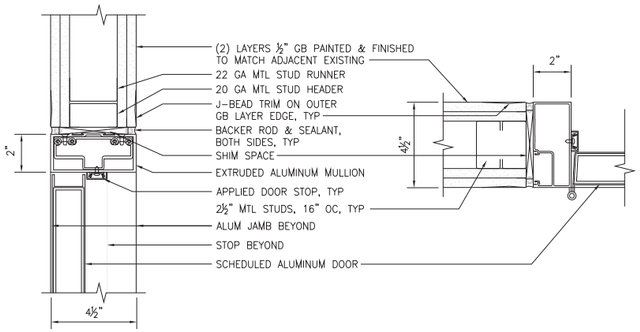


6 A802 DETAIL-JAMB OF ALUM DOOR
SCALE: 3"=1'-0"



4 A802 DETAIL- HEAD/SILL OF ALUM DOOR
SCALE: 3"=1'-0"

7 A802 DETAIL- HEAD/SILL OF ALUM DOOR
SCALE: 3"=1'-0"



8 A802 DETAIL- HEAD OF ALUM DOOR
SCALE: 3"=1'-0"

9 A802 DETAIL- JAMB OF ALUM DOOR
SCALE: 3"=1'-0"

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DOOR DETAILS

SHEET A-802

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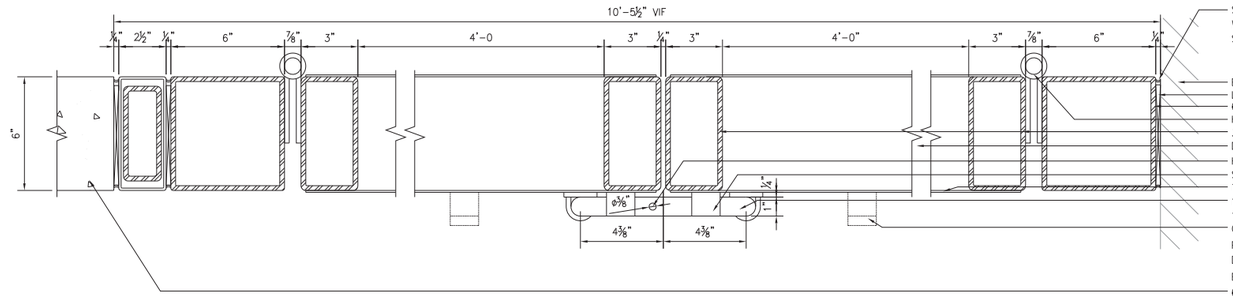
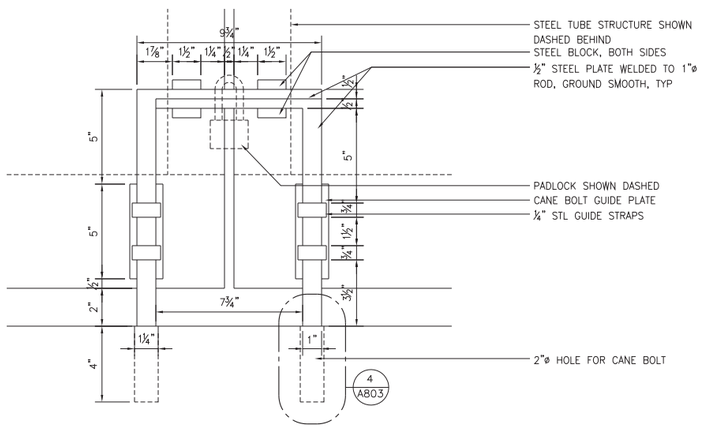


1 A803 PLAN-SHED ACCESS GATE
SCALE: 3"=1'-0"

3 A802



2 A803 CANE BOLT DETAIL-SHED ACCESS GATE
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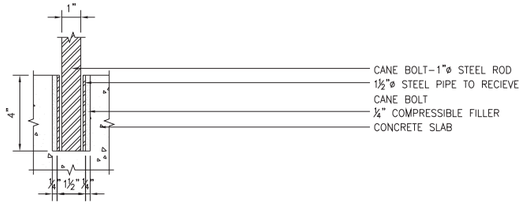

4 A803 CANE BOLT DETAIL-SHED ACCESS GATE
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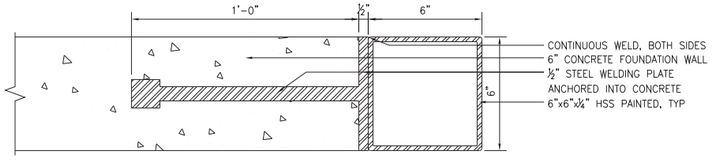
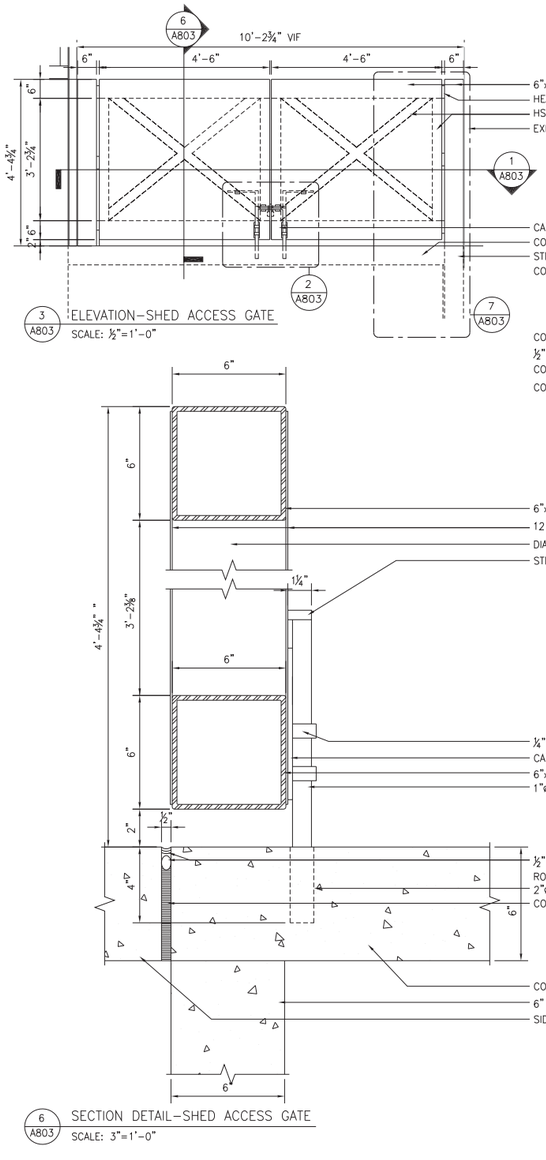


5 A803 FOUNDATION DETAIL-SHED ACCESS GATE
SCALE: 3"=1'-0"

6 A803



6 A803 SECTION DETAIL-SHED ACCESS GATE
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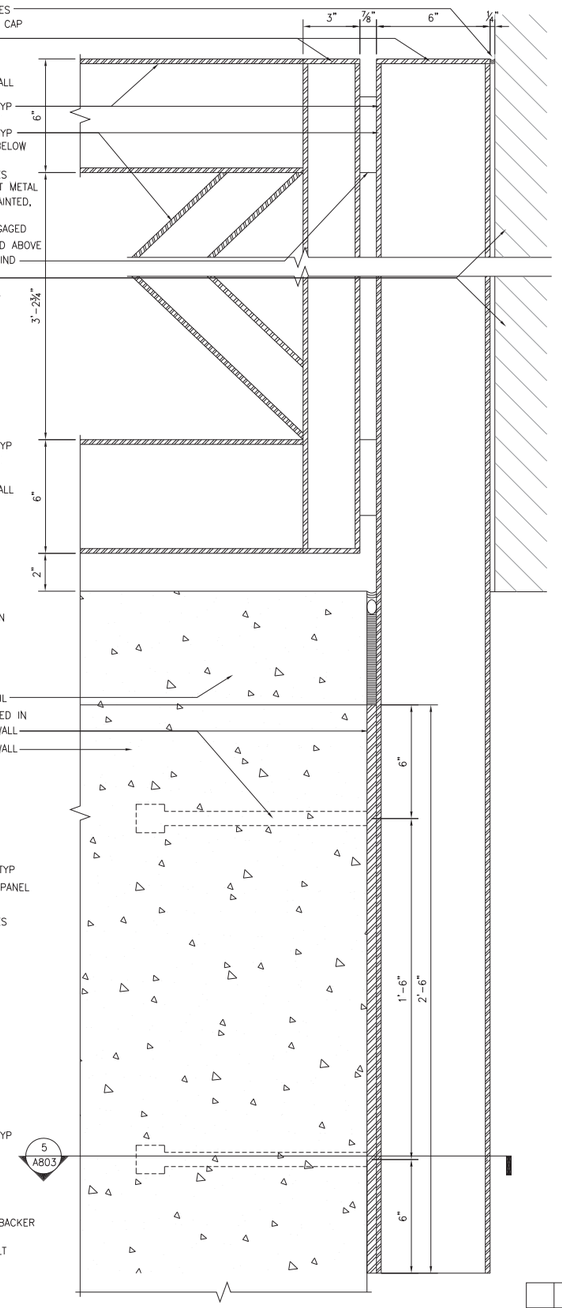

7 A803 FOUNDATION DETAIL-SHED ACCESS GATE
SCALE: 3"=1'-0"

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MISCELLANEOUS DETAILS

SHEET A-803

190

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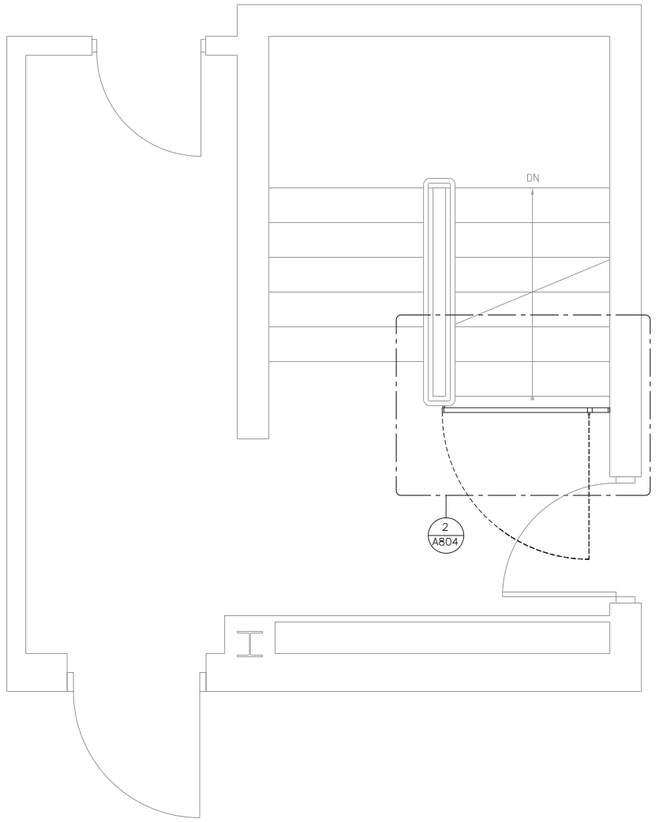
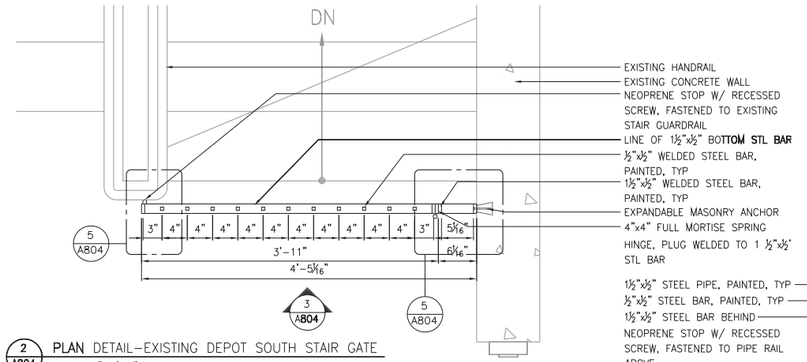
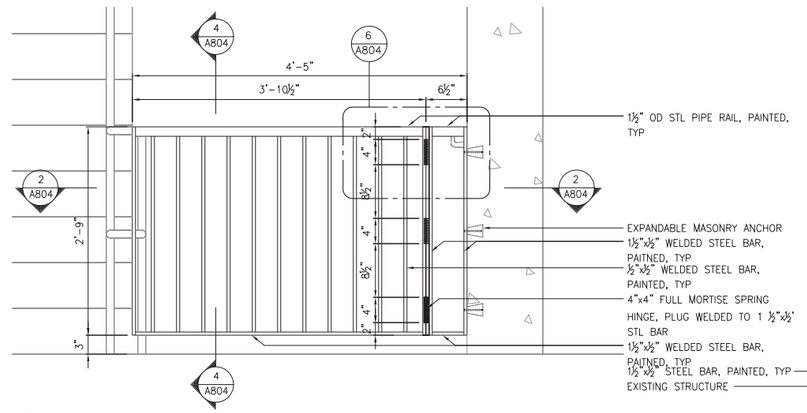


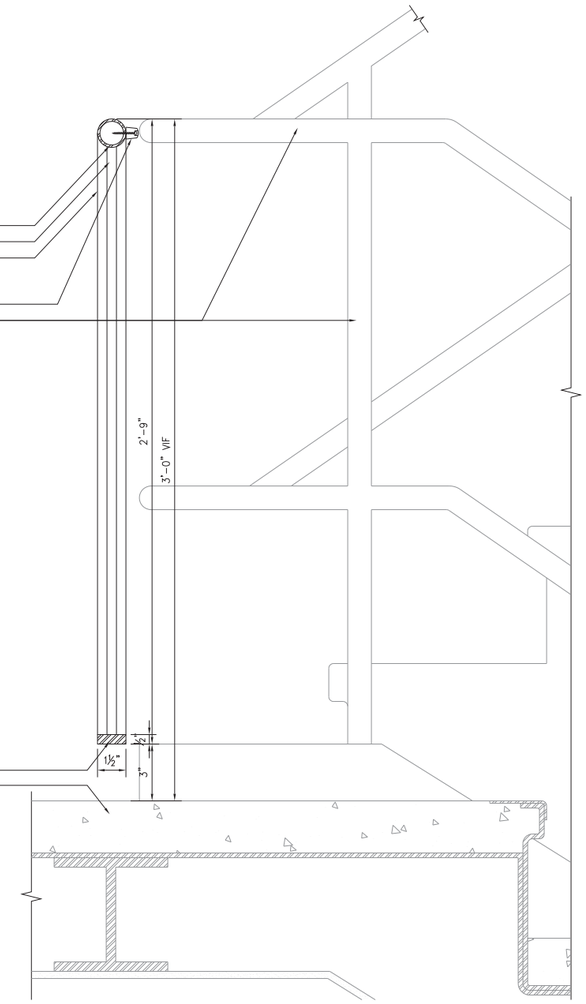
1 A804 PLAN–EXISTING DEPOT SOUTH STAIR GATE
SCALE: ½"=1'-0"



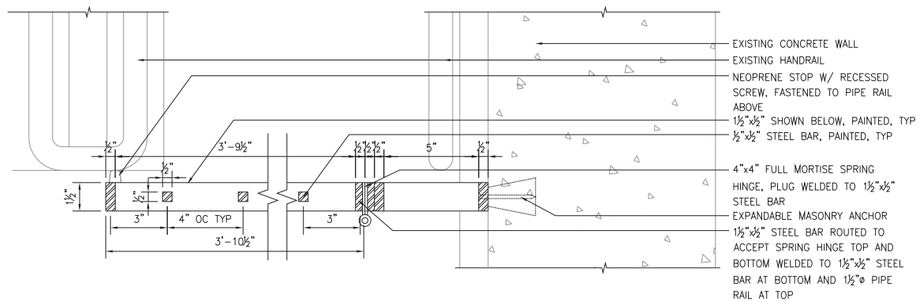
2 A804 PLAN DETAIL–EXISTING DEPOT SOUTH STAIR GATE
SCALE: 1"=1'-0"



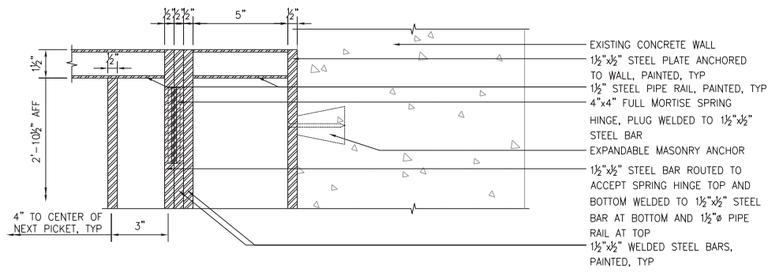
3 A804 ELEVATION–EXISTING DEPOT SOUTH STAIR GATE
SCALE: 1"=1'-0"



4 A804 SECTION DETAIL–EXISTING DEPOT SOUTH STAIR GATE
SCALE: 3"=1'-0"



5 A804 SECTION DETAIL–EXISTING DEPOT SOUTH STAIR GATE
SCALE: 3"=1'-0"



6 A804 SECTION DETAIL–EXISTING DEPOT SOUTH STAIR GATE
SCALE: 3"=1'-0"

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MISCELLANEOUS DETAILS

SHEET A-804

191

HANNO WEBER & ASSOCIATES
ARCHITECTURE / URBAN DESIGN
11 EAST ADAMS ST. SUITE 702
CHICAGO, IL 60603 312 922 5589

file= SCALE = AS NOTED

08

08

STATE PROJECT NUMBER

1000-40-70

REMOVE & SALVAGE EXISTING PAYPHONE UNIT & ALL ASSOCIATED MILLWORK-CAP ALL WIRING AS REQ'D BACK TO J-BOX & PROVIDE COVER PLATE PAINTED TO MATCH SURROUNDING WALL SURFACE; PATCH WALL SURFACE BEHIND PAYPHONE UNIT AS REQ'D

NEW ALUM DOOR & FRAME-REFER TO DOOR SCHEDULE

4"

3'-0"

116A

DATA ROOM 116A

NEW PARTITION: (2) LAYERS ½" GB ON 2½" MTL STUDS, 16" OC, BOTH SIDES-RUN FROM FLOOR TO UNDERSIDE OF EXISTING GB CEILING/SOFFIT; INSTALL SALVAGED STONE BASE ON BOTH SIDES

REMOVE & SALVAGE EXISTING PAYPHONE UNIT & ALL ASSOCIATED MILLWORK-CAP ALL WIRING AS REQ'D BACK TO J-BOX & PROVIDE COVER PLATE PAINTED TO MATCH SURROUNDING WALL SURFACE; PATCH WALL SURFACE BEHIND PAYPHONE UNIT AS REQ'D

REMOVE EXISTING STONE BASE & SALVAGE FOR REINSTALLATION ON BOTH SIDES OF NEW WEST PARTITION REPLACE W/6" TOELESS, ⅛" THICK RESILIENT BASE

PATCH GB CEILING TO MATCH EXISTING, TYP

PATCH WALL SEGMENT UNCOVERED BY PARTITION DEMOLITION TO MATCH EXISTING, TYP

SHEATHE EXISTING STUD WALL W/GB-PAINT & FINISH TO MATCH EXISTING SURROUNDING WALL SURFACE

GROUT EXISTING FLOOR SURFACE & LEVEL TO MATCH EXISTING SURROUNDING FLOOR FINISH

PATCH WALL SEGMENT UNCOVERED BY PARTITION DEMOLITION TO MATCH EXISTING, TYP

REMOVE EXISTING WALL PARTITION & ALL ASSOCIATED COMPONENTS-SALVAGE WALL BASE FOR REINSTALLATION

EXISTING LIGHT FIXTURE, TYP

REMOVE & SALVAGE EXISTING PAYPHONE UNIT & ALL ASSOCIATED MILLWORK-CAP ALL WIRING AS REQ'D BACK TO J-BOX & PROVIDE COVER PLATE PAINTED TO MATCH SURROUNDING WALL SURFACE; PATCH WALL SURFACE BEHIND PAYPHONE UNIT AS REQ'D

REMOVE EXISTING WALL PARTITION & ALL ASSOCIATED COMPONENTS-SALVAGE WALL BASE FOR REINSTALLATION

PATCH WALL SEGMENT UNCOVERED BY PARTITION DEMOLITION TO MATCH EXISTING, TYP

GROUT EXISTING FLOOR SURFACE & LEVEL TO MATCH EXISTING SURROUNDING FLOOR FINISH

SHEATHE EXISTING STUD WALL W/GB-PAINT & FINISH TO MATCH EXISTING SURROUNDING WALL SURFACE

PATCH WALL SEGMENT UNCOVERED BY PARTITION DEMOLITION TO MATCH EXISTING, TYP

18"x24" PAINTED MTL ACCESS PANEL TO MATCH EXISTING CEILING, TYP

1 A805 DATA ROOM PLAN
SCALE: 1"=1'-0"

4"

6"

DATA ROOM 116A

EXISTING GYPSUM BOARD CEILING

6"

4"

2 A805 DATA ROOM RCP
SCALE: 1"=1'-0"

08

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY KV,JL,JB,AS | PLANS CK'D. HW

DEPOT DATA ROOM

SHEET A-805

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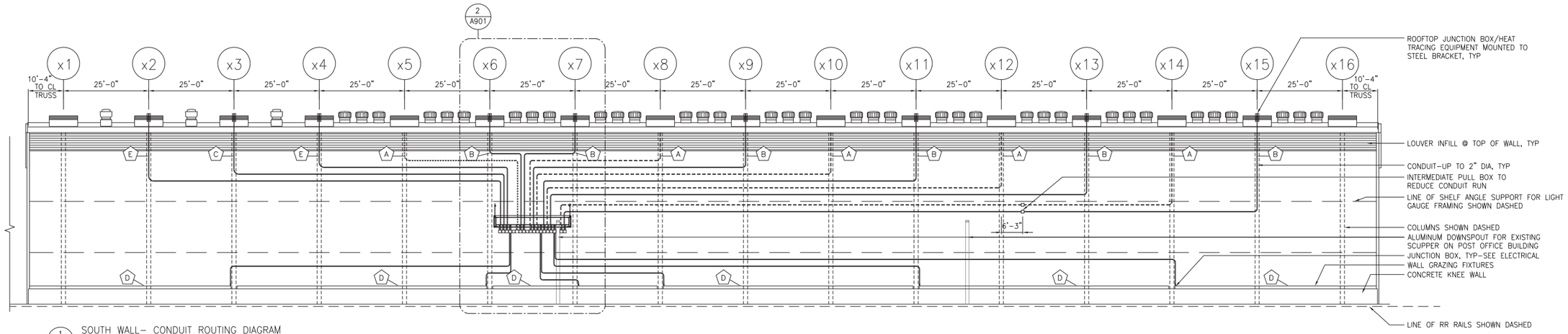
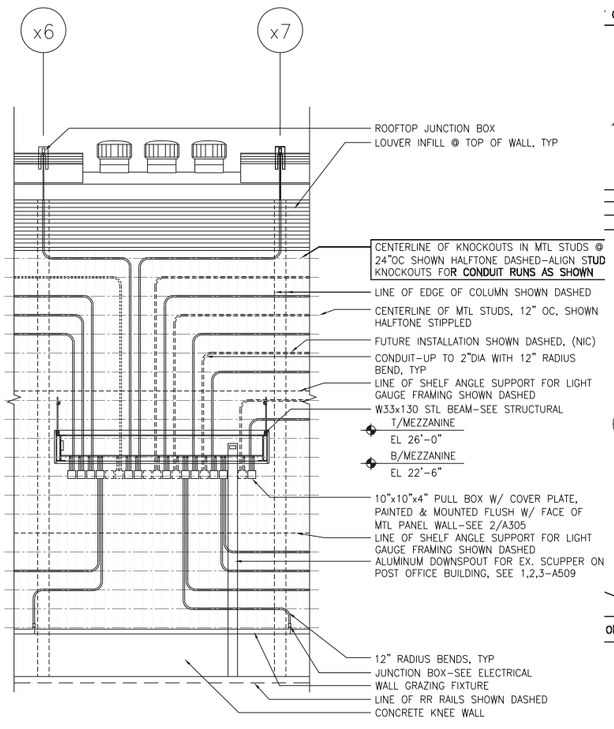
CONDUIT LEGEND

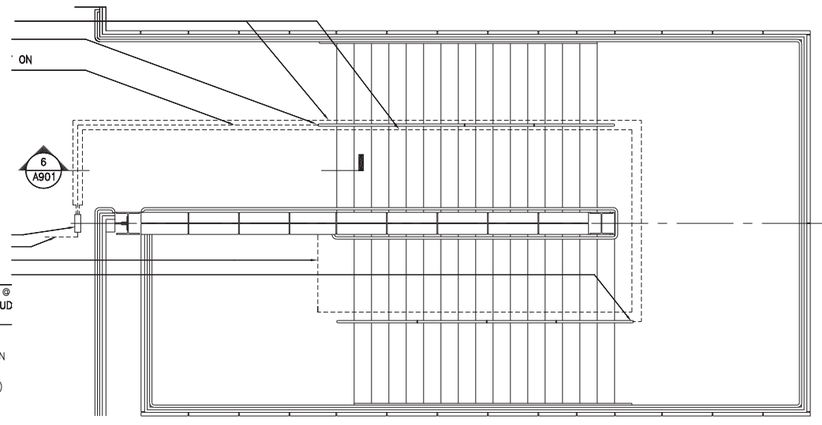
(A) NOT IN CONTRACT, SHOWN FOR FUTURE INSTALLATION
(B) GENERAL POWER/HEAT TRACING
(C) FAN POWER
(D) WALL GRAZING FIXTURES
(E) FAN POWER/HEAT TRACING/GENERAL POWER



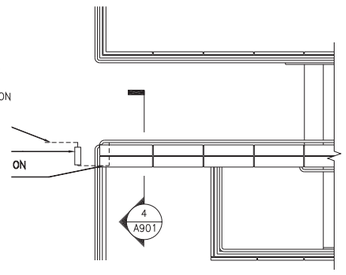
1 A901 SOUTH WALL– CONDUIT ROUTING DIAGRAM
SCALE: 1/16"=1'-0"



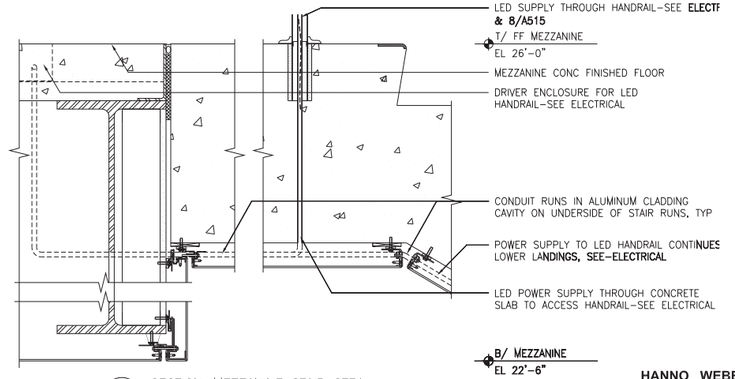
2 A901 CONDUIT ROUTING DIAGRAM–MEZZANINE BAY DETAIL
SCALE: 1/8"=1'-0"



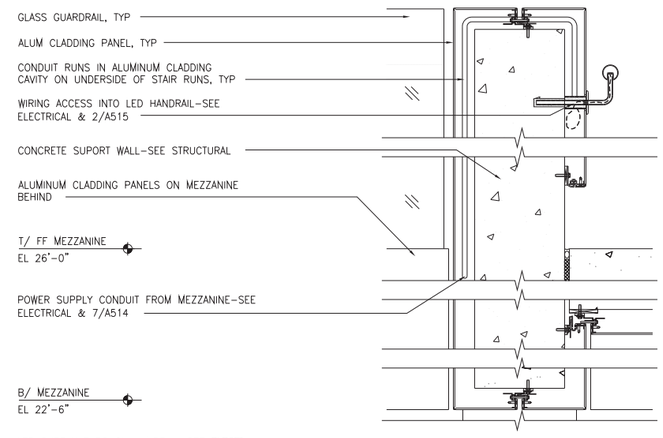
3 A901 PLAN–MEZZANINE STAIR STE1 INTERMEDIATE HANDRAIL CONDUIT ROUTNIG
SCALE: 1/4"=1'-0"



5 A901 PLAN–MEZZANINE STAIR STE2 (STE3 IDENTICAL) WALL HANDRAIL CONDUIT ROUTING
SCALE: 1/4"=1'-0"



6 A901 SECTION–MEZZANINE STAIR STE1
SCALE: 1½"=1'-0"



4 A901 SECTION–SUPPORT WALL @ STE2 (STE3 IDENTICAL)
SCALE: 1½"=1'-0"

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ELECTRICAL CONDUIT ROUTING DIAGRAMS

SHEET A–901

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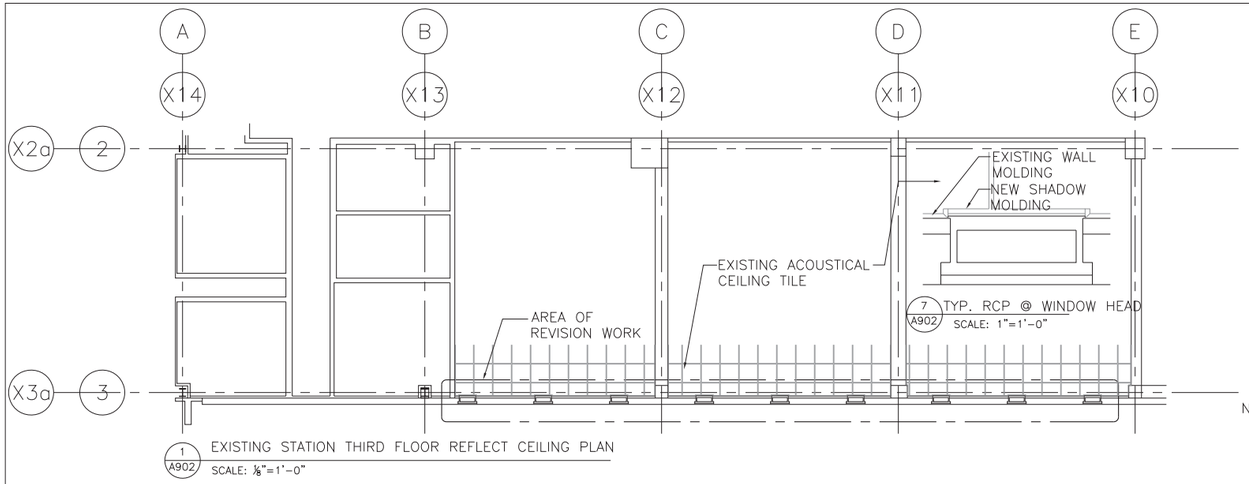
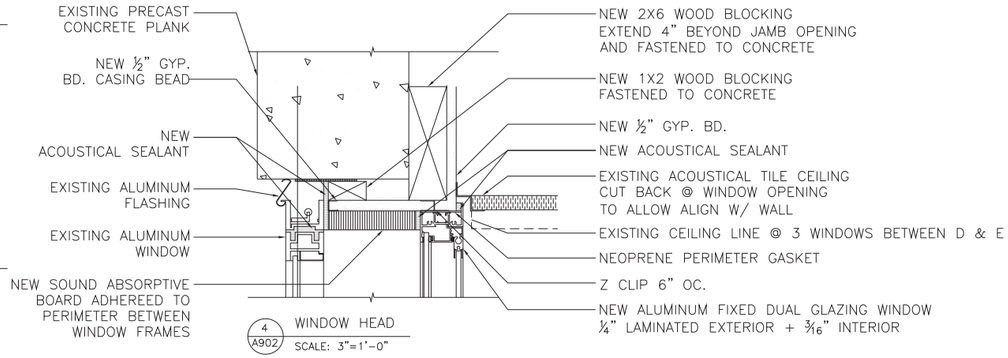
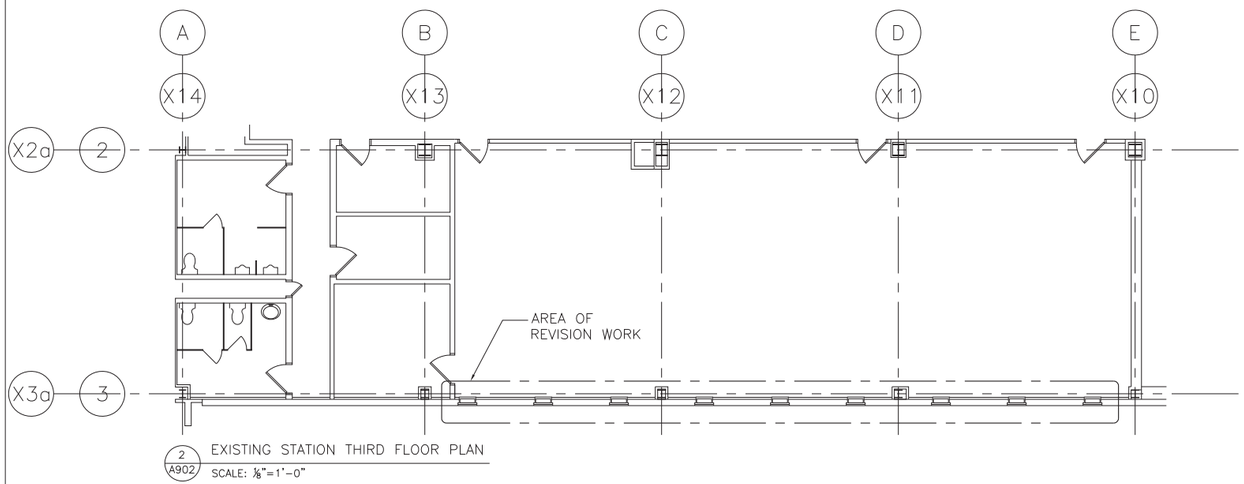


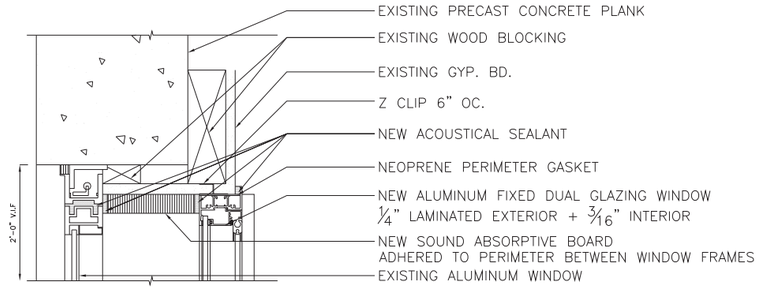
1 A902 EXISTING STATION THIRD FLOOR REFLECT CEILING PLAN
SCALE: ⅛"=1'-0"



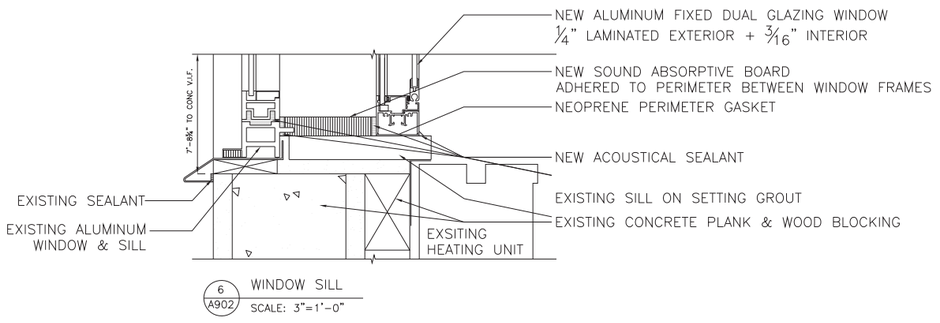
4 A902 WINDOW HEAD
SCALE: 3"=1'-0"



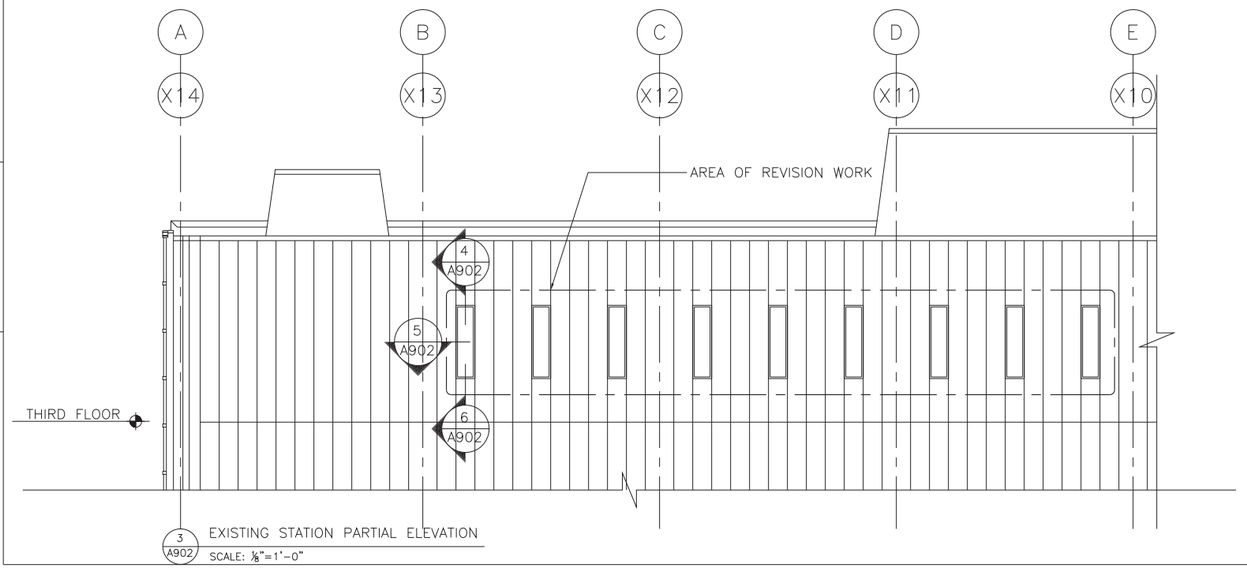
2 A902 EXISTING STATION THIRD FLOOR PLAN
SCALE: ⅛"=1'-0"



5 A902 WINDOW JAMB
SCALE: 3"=1'-0"



6 A902 WINDOW SILL
SCALE: 3"=1'-0"



3 A902 EXISTING STATION PARTIAL ELEVATION
SCALE: ⅛"=1'-0"

8

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EXISTING STATION WINDOW DETAILS

SHEET A-902

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ABBREVIATIONS

A

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
ADJC	ADJACENT
AES	ARCHITECTURALLY EXPOSED FABRICATIONS STEEL
AESS	ARCHITECTURALLY EXPOSED STRUCURAL STEEL
AFF	ABOVE FINISHED FLOOR
ANC	ANCHOR(AGE)
ARCH	ARCHITECT(URAL)

B

BFE	BOTTOM OF FOOTING ELEVATION
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING

C

C	AMERICAN STANDARD CHANNEL
CA	WATERSTOP
CIP	CAST IN PLACE
CJ	CONTROL/CONSTUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTER LINE
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINU(E) (OUS) (ATION)

D

D&E	DRILL AND EPOXY GROUT
DBA	DEFORMED BAR ANCHOR
DBE	DECK BEARING ELEVATION
DET	DETAIL
DIA	DIAMETER
DL	DEAD LOAD
DO	DITTO
DWGS	DRAWING(S)
DWL	DOWEL (REBAR)

E

EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT (W/O COVER ASSEMBLY)
EL	ELEVATION
EQ	EQUAL
ES	EACH SIDE
EW	EACH WAY
EXG	EXISTING

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FFE	FINISH FLOOR ELEVATION
FLG	FLANGE
FS	FAR SIDE/FOOTING STEP
FTG	FOOTING

G

GA	GAUGE
GALV	GALVANIZED
GLB	GLUE LAMINATED BEAM
GR	GRADE

H

HORIZ	HORIZONTAL
HPT	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION

I

IF	INSIDE FACE
INFO	INFORMATION

J

JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT

K

K	KIP (1000 POUNDS)

L

L	ANGLE
LB	POUND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCAT(E)(ION)
LONG	LONGITUDINAL(LY)
LPT	LOW POINT
LTL	LINTEL
LW	LIGHTWEIGHT

M

MAS	MASONRY
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MFR	MANUFACTURER
MIN	MINIMUM

N

NIC	NOT IN CONTRACT
NOM	NOMINAL
NS	NEAR SIDE
NSG	NON-SHRINK GROUT
NTS	NOTE TO SCALE
NW	NORMAL WEIGHT

O

OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPG	OPENING
OPP	OPPOSITE

P

PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PROJ	PROJECT(ION)(OR)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POST TENSION(ED)(ING)
PTD	PAINTED

R

RD	ROOF DRAIN
REF	REFER(ENCE)
REINF	REINFORC(E)(ING)(EMENT)
REQD	REQUIRED

S

S	S SHAPE
SCHED	SCHEDULE
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC(S)	SPECIFICATION(S)
SRCJ	SPECIALLY ROUGHENED CONSTRUCTION JOINT
SS	STAINLESS STEEL
STD	STANDARD
STIF	STIFFENER
STL	STEEL
STRUC	STRUCTUR(E)(AL)
SYM	SYMMETR(Y)(IAL)

T

T&B	TOP AND BOTTOM
TBE	TOP OF BEAM ELEVATION
TCE	TOP OF PILE CAP (DRILLED PIER CAP) ELEVATION
TDE	TOP OF DECK ELEVATION
TEMP	TEMPERATURE/TEMPORARY
TFE	TOP OF FOOTING ELEVATION
TJE	TOP OF JOIST ELEVATION
TLE	TOP OF LEDGE ELEVATION
TME	TOP OF MASONRY ELEVATION
TPE	TOP OF PIER ELEVATION
TRANSV	TRANSVERSE
TSE	TOP OF SLAB ELEVATION
TWE	TOP OF WALL ELEVATION
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE

V

VERT	VERTICAL
VIF	VERIFY IN FIELD
VR	VAPOR RETARDER

W

W	W SHAPE
W/	WITH
W/O	WITHOUT
WD	WOOD
WL	WIND LOAD
WP	WORK(ING) POINT
WT	WEIGHT/STRUCTURAL TEE
WWF	WELDED WIRE FABRIC

X

XP(D)	EXPOSE(D)

SPECIAL SYMBOLS

@	AT	/	PER
ϕ	DIAMETER	⊥	PERPENDICULAR

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS OR SPECIFICATIONS.

DESIGN CODE

WISCONSIN COMMERCIAL BUILDING CODE (IBC 2006 WITH WISCONSIN AMENDMENTS)

DESIGN LOADS

FLOOR LIVE LOADS

FLOOR LOCATION	LIVE LOAD	REDUCED	PARTITIONS
PLATFORMS	100 PSF	NO	NA
STAIRS AND CORRIDOR	100 PSF	NO	NA
MECHANICAL ROOM	150 PSF	NO	NA

(LIVE LOAD REDUCTION PER IBC 1607.9)

SNOW LOAD

GROUND SNOW LOAD, Pg	30 PSF
FLAT ROOF SNOW LOAD, Pf	28 PSF
SNOW IMPORTANCE FACTOR	1.1
SNOW EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.2

WIND LOAD

BASIC WIND SPEED (3 SECOND GUST)	90 MPH
WIND IMPORTANCE FACTOR	1.15
WIND EXPOSURE CATEGORY	B
MEAN ROOF HEIGHT	54 FT
BUILDING CATEGORY	I
INTERNAL PRESSURE COEFFICIENT	±0.55

COMPONENTS AND CLADDING WIND PRESSURES SEE 1&2/S002

SEISMIC DESIGN DATA

SEISMIC USE GROUP	III
SPECTRAL RESPONSE COEFFICIENT, Sds	0.183
SPECTRAL RESPONSE COEFFICIENT, Sd1	0.105
SITE CLASS	E
SEISMIC IMPORTANCE FACTOR	1.25
SEISMIC DESIGN CATEGORY (SDC)	B
BASE SHEAR	13.3 KIPS

MAIN LATERAL FORCE RESISTING SYSTEM

STEEL BRACING IN ALL DIRECTIONS

FUTURE EXPANSION

NONE

MATERIALS

CAST-IN-PLACE CONCRETE
F'c= 3500 PSI AT 28 DAYS (NORMAL WEIGHT CONCRETE ON METAL DECK)
F'c= 4000 PSI AT 28 DAYS (ALL OTHER CONCRETE)

CONCRETE MASONRY

CONCRETE MASONRY UNITS	ASTM C90 TYPE "N-1"
MASONRY GROUT	F'c = 3000 PSI AT 28 DAYS
MASONRY MORTAR	ASTM C270 (TYPE S UNO)

STEEL REINFORCING

REINFORCING BARS	ASTM A615 (GRADE 60)
DEFORMED BAR ANCHORS	ASTM A496
EPOXY-COATED REINFORCING BARS	ASTM A775 OR ASTM A964
WELDED WIRE FABRIC	ASTM A185

STRUCTURAL STEEL

W SHAPES (AND WT CUT FROM W SHAPES)	ASTM A992 (Fy=50 KSI)
PLATES AND SHAPES OTHER THAN W	ASTM A36 (Fy=36 KSI)
RECTANGULAR HSS	ASTM A500, GRADE B (Fy=46 KSI)
ROUND HSS	ASTM A500, GRADE B (Fy=42 KSI)
PIPES	ASTM A53, TYPES E OR S, GRADE B (Fy=35 KSI)
BOLTS	ASTM A325/ASTM A490
ANCHOR BOLTS	F1554 (Fy=50 KSI)
EXPANSION BOLTS	HILTI, RAWL, THUNDERSTUDS OR NATIONAL FASTENERS
ADHESIVE ANCHORS/GROUT	SIKA, HILTI, EPCON
HEAD STUDS/SHEAR CONNECTORS	ASTM A108

PRECAST CONCRETE
F'c= 6000 PSI AT TRANSFER OF PRESTRESSING FORCE
F'c= 7500 psi AT 28 DAYS

PRESTRESSING STRANDS	ASTM A416

FOUNDATIONS

FOUNDATION DESIGN PARAMETERS ARE BASED ON RECOMMENDATIONS FROM THE GEOTECHNICAL EXPLORATION REPORT NUMBER 07065-10 DATED OCTOBER 17, 2007 BY GESTRA AND GEOTECHNICAL EXPLORATION REPORT NUMBER 10040-10 DATED AUGUST 13, 2010 BY GESTRA.

REFER TO THE GEOTECHNICAL REPORT FOR SOIL CLASSIFICATION.

FOOTINGS HAVE BEEN DESIGNED TO RE-USE THE EXISTING TIMBER PILES. SHALLOW FOUNDATIONS ARE NOT SUITABLE AT THIS PROJECT SITE PER THE GEOTECHNICAL REPORT.

IF THE SOIL AT THE FOUNDATION OR SLAB-ON-GRADE ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AT ONCE FOR RESOLUTION.

ALL FOUNDATIONS SHALL BE CENTERED ON WALLS OR COLUMNS UNO.

WALLS RETAINING SOIL HAVE BEEN DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 55 POUNDS PER CUBIC FOOT.

WHERE FILL MATERIAL IS PLACED ON ONE SIDE OF A WALL (OR GRADE BEAM), THE WALL (OR BEAM) SHALL BE ADEQUATELY SHORED AND BRACED OR THE MATERIAL SHALL NOT BE PLACED UNTIL SUPPORTING FLOORS SLABS, INCLUDING SLAB-ON-GRADE, HAVE BEEN POURED AND SET.

CONTINUOUS FOOTINGS SHALL BE STEPPED AT A SLOPE OF ONE VERTICAL TO TWO HORIZONTAL.

PROTECT IN-PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATION UNTIL PROJECT COMPLETION.

SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS SHALL NOTE EXCEED ONE VERTICAL TO TWO HORIZONTAL. STEP FOOTINGS DOWN AS NECESSARY TO MAINTAIN THIS SLOPE.

CAST-IN-PLACE CONCRETE

CODE FOR REINFORCED CONCRETE DESIGN AND CONSTRUCTION - ACI 318.

ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.

REINFORCING STEEL SHALL BE NEW DEFORMED BARS.

CLEAR COVER REQUIREMENTS:
CONCRETE COVER TO REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

SURFACES CAST AGAINST EARTH	3"
FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHERING:	
#6 OR LARGER	2"
#5 OR SMALLER	1½"
FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHERING:	
WALLS, SLABS, JOISTS	1"
BEAMS, COLUMNS	1½"

NON-CONTINUOUS ENDS OF TOP BARS IN BEAMS AND SLABS SHALL TERMINATE IN A STANDARD HOOK, UNLESS DETAILED OTHERWISE. BAR LENGTHS INDICATED DO NOTE INCLUDE HOOKS WHERE THEY OCCUR.

WHERE REINFORCING BARS ARE SHOWN CONTINUOUS, PROVIDE CLASS B TENSION LAP SPLICES (12" MINIMUM) EXCEPT WHERE NOTED OR DETAILED OTHERWISE. LAP WWF WIRE SPACING PLUS 2" (6" MINIMUM).

DETAIL AND PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE. ALL CHAIRS SUPPORTED BY GRADE SHALL INCLUDE SAND PLATES.

BAR SUPPORTS WHICH COME IN CONTACT WITH EXPOSED SURFACES SHALL HAVE PLASTIC OR RUBBER TIPS OR BE STAINLESS STEEL.

PROVIDE DOWELS OF SAME SIZE AND SPACING AS VERTICAL WALL OR COLUMN PIER REINFORCING AT THE FOUNDATION. UNLESS NOTED OTHERWISE. DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.

PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF WALLS, BEAMS, AND FOOTINGS.

CONTINUOUS TOP BARS IN WALLS, BEAMS AND GRADE BEAMS SHALL BE SPLICED AT MIDSPAN AND BOTTOM BARS OVER SUPPORTS, UNLESS NOTED OTHERWISE.

DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND PLACING SEQUENCE SHALL BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO PREPARATION OF THE REINFORCING STEEL SHOP DRAWINGS.

HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN CONCRETE MEMBERS UNLESS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE. VERTICAL CONSTRUCTION JOINTS OR BULKHEADS SHALL BE MADE AT MIDSPAN OR POINTS OF MINIMUM SHEAR.

SIZE OF CONCRETE POURS BETWEEN CONSTRUCTION JOINTS SHALL BE LIMITED TO:

WALLS	MAXIMUM LENGTH 100 FT WITH INTERMEDIATE CONTROL JOINTS AT APPROXIMATELY 30 FT. DO NOT LOCATE WITHIN 5 FT OF A CORNER OR COLUMN. COORDINATE LOCATIONSWITH VENEER JOINTS.
SLABS ON GRADE	3600 SQUARE FT WITH MAXIMUM DIMENSION OF 60 FT; PLACE IN LANE OR STRIP FASHION WITH INTERMEDIATE CONTROL JOINTS AT APPROXIMATELY 20 FT OR 15 FT FOR EXPOSED CONCRETE SURFACES. COORDINATE LOCATIONS WITH FLOOR FINISHES.

VERIFY LOCATION OF OPENINGS SHOWN THROUGH CONCRETE SLABS OR WALLS AND COORDINATE ANY ADDITIONAL REQUIRED OPENINGS WITH OTHER TRADES AND THE ARCHITECT/ENGINEER.

CONCRETE EXPOSED TO FREEZING AND THAWING SHALL CONTAIN 6% (PLUS OR MINUS 1.5%) ENTRAINED AIR.

THICKEN SLABS ON GRADE BELOW NON-BEARING INTERIOR MASONRY WALLS.

ALUMINUM CONDUIT OR PIPING MAY NOT BE EMBEDDED IN ANY CONCRETE.

CALCIUM CHLORIDE IS NOT PERMITTED AS A CONCRETE ADDITIVE.

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STRUCTURE MIS SHED

DRAWN BY	PLANS CK'D.
BLM	SWS

GENERAL NOTES

SHEET S-001

195

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FILE= 20038_S001GEN NOTES.DGN
SCALE = 1:1

GENERAL STRUCTURAL NOTES

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PRECAST CONCRETE

DESIGN, MATERIALS AND CONSTRUCTION OF PRESTRESSED CONCRETE PLANKS SHALL BE IN ACCORDANCE WITH THE CURRENT CP STANDARD SPECIFICATIONS AND THE CURRENT AREMA MANUAL FOR RAILWAY ENGINEERING, CHAPTER 8, PART 17 - PRESTRESSED CONCRETE DESIGN.

PRECAST CONCRETE SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE ACI MANUALS AND THE AFOREMENTIONED CONCRETE PROVISIONS.

PRECAST MEMBERS SHALL BE ATTACHED AND SUPPORTED BY THE STRUCTURE AS INDICATED ON THE DRAWINGS. (DEVIATION FROM THESE LOCATIONS WILL CONSTITUTE MEANS FOR REJECTION OF MEMBERS.)

PRECAST CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS (HANGERS, CLIPS, PLATES, HEADERS, ANCHORAGES, ETC.) WHICH MUST BE PRECAST INTO THE CONCRETE UNLESS OTHERWISE NOTED OR REQUIRED FOR CONNECTION OF PRECAST TO STRUCTURE.

CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL HOLES OR OPENINGS WITH RESPECTIVE TRADES BEFORE FABRICATION. ANY DEVIATION FROM THESE LOCATIONS OR ADDITIONAL OPENINGS MUST BE APPROVED BY THE FABRICATOR.

CONCRETE SHALL BE AIR-ENTRAINED CONTAINING 7% PLUS OR MINUS 1% AIR BY VOLUME.

MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE ¾ INCH.

MAXIMUM ALLOWABLE CAMBER (1) INCH.

MINIMUM CONCRETE COVER ON REINFORCEMENT SHALL BE 1½ INCHES.

ALL PRESTRESSING STRANDS SHALL BE STRAIGHT 0.6" DIA., 7 WIRE UNCOATED, LOW-RELAXATION, WITH MINIMUM F's = 270,000 PSI.

INITIAL PRESTRESS SHALL BE 0.75*F's = 44,000 LBS. PER STRAND.

ALL EXPOSED EDGES SHALL BE CHAMFERED ¾ INCH.

FIRE RATING OF PRECAST FLOOR PLANK SHALL BE 2-HOUR.

GROUT IN PRECAST MEMBER KEYWAYS SHALL BE NON-SHRINK GROUT f'C = 4000 PSI

PRODUCTION PROCEDURES AND DIMENSIONAL TOLERANCES FOR THE MANUFACTURE OF PRECAST, PRESTRESSED BEAMS SHALL BE IN ACCORDANCE WITH THE PRESTRESSED CONCRETE INSTITUTE'S CURRENT MANUAL MNL-116 FOR QUALITY CONTROL.

AN ALTERNATE STRAND PATTERN BETTER SUITED TO THE MANUFACTURER'S FACILITIES WHICH HAS THE SAME ECCENTRICITY AS THE PATTERN SHOWN ON THIS PLAN WILL BE CONSIDERED FOR APPROVAL PRIOR TO CASTING UPON SUBMISSION BY THE MANUFACTURER OF PLANS AND COMPUTATIONS.

IF REINFORCING BAR SUPPORTS ARE USED, THEY SHALL BE CLASS 1, PLASTIC PROTECTED, IN ACCORDANCE WITH CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE.

MANUFACTURER SHALL CUT PRESTRESSING STRANDS FLUSH WITH ENDS OF CONCRETE BEAMS AND PAINT.

STRUCTURAL STEEL

LATEST A.I.S.C. MANUAL AND SPECIFICATIONS APPLY.

WELDING ELECTRODES SHALL BE E70XX. USE STAINLESS STEEL ELECTRODES COMPATIBLE WITH BASE METALS.

ALL WELDING AND TESTING OF WELDS SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS.

ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES IN THE TYPE OF WELD REQUIRED.

COMPOSITE BEAMS ARE DESIGNED AS UNSHORED UNO.

ALL BOLTED CONNECTIONS IN TRUSSES, MOMENT FRAMES, BRACING, BEAMS WITH AXIAL FORCES, BEAMS BRACING TRUSS CHORDS, AND MEMBERS FRAMING TO COLUMNS SHALL BE SLIP CRITICAL USING TYPE "SC" BOLTS.

CONTRACTOR SHALL PROVIDE THE NECESSARY BRACING DURING ERECTION AND UNTIL ALL STEEL IS PLUMB AND SECURED.

FIELD CUTTING OR OTHER FIELD MODIFICATIONS TO STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT SPECIFIC PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.

ALL BEAM COPES MUST BE MADE TO A RADIUS (1" MINIMUM).

STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.

ANCHOR RODS ARE NOT DESIGNED TO SUPPORT ERECTION LOADS.

STEEL FABRICATOR SHALL COMPLY WITH OSHA STANDARDS IN DETAILING AND FABRICATING STEEL FOR ERECTION.

STEEL ROOF DECKING

STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS APPLY.

SUPPLEMENTAL NOTES

EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS TO DETERMINE LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.

BEFORE FABRICATION AND ERECTION OF ANY MATERIALS, FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS AND CONDITIONS AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER AT ONCE FOR RESOLUTION.

STRUCTURAL MEMBERS ARE DESIGNED FOR "IN PLACE" LOADS. CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS (AS REQUIRED AT ANY STAGE OF CONSTRUCTION) UNTIL COMPLETION OF THIS PROJECT.

FOLLOW OSHA SAFETY STANDARDS FOR STEEL ERECTION, STEEL JOIST ERECTION AND METAL DECKING ERECTION.

ELEVATION 100'-0" = 587.63 FT (SURVEYED)

LAP SPLICE & EMBEDMENT SCHEDULE

BAR LOCATION	LAP CLASS	CLASS A EMBEDMENT/ LAP SPLICE		CLASS B LAP SPLICE	
	CONC. STRENGTH	4000	5000	4000	5000
TOP	#4	25	22	32	29
	#5	31	28	40	36
	#6	37	33	48	43
	#7	54	48	70	63
	#8	62	55	80	72
	#9	70	62	90	81
	#10	78	70	102	91
	#11	87	78	113	101
OTHER	#4	19	17	25	22
	#5	24	21	31	28
	#6	28	25	37	33
	#7	42	37	54	48
	#8	47	42	62	55
	#9	54	48	70	62
	#10	60	54	78	70
	#11	67	60	87	78

NOTES:
1. TOP INDICATES HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW BARS

2. MULTIPLY THE LENGTHS IN THE SCHEDULE BY THE APPROPRIATE MODIFIERS WHEN REQUIRED:
   1.3 FOR LIGHTWEIGHT CONCRETE
   1.5 FOR BARS COVER LESS THAN THE BAR DIAMETER
   1.5 FOR BARS CLEAR SPACING LESS THAN 2 BAR DIAMETERS

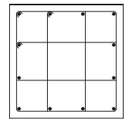
FOOTING SCHEDULE

TYPE	SIZE	DEPTH	REINFORCING
F3	3'-0"x3'-0"	24"	3-#5 EW TOP & BOT

PIER SCHEDULE

MARK	SIZE	REINFORCING	STIRRUPS	
P36	36"x24"	12-#5 VERT	3-#4 SPA. EQ.	*
P36A	36"x24"	12-#8 VERT	#4 AT 9" OC	**

* SEE DETAIL 7/S500 FOR TIE SPACING AT TOP OF PIER
** SEE DETAIL 8/S500 FOR TIE SPACING AT TOP OF PIER

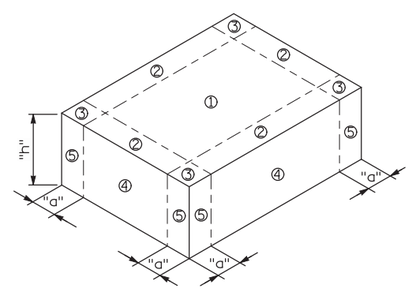


12 BAR
3 TIES/SET

SLAB/DECK SCHEDULE

MARK	TOTAL THICKNESS	TYPE	DECK			CONCRETE		STUD LENGTH	REINFORCING	
			DEPTH	GAGE	FINISH	THICKNESS	TYPE		REINF	DETAIL
DECK ①	7½"	ROOF	7½"	18	GALV	---	---	---	---	---

* DECK CONNECTION TO THE TRUSS SYSTEM SHALL BE DESIGNED TO HAVE A SHEAR CAPACITY OF 0.5 KIPS/FT TO ENSURE DIAPHRAGM BEHAVIOR.



NOTE:
REFER TO "WIND LOADS AT COMPONENTS AND CLADDING" FOR DEFINITIONS. ① THROUGH ⑤ INDICATE WIND LOAD ZONES.

1 S002 COMPONENTS AND CLADDING WIND LOAD DIAGRAM

LOADS ON WIND LOAD DIAGRAM

ZONE (NOTE 1)	AREA (SQ/FT) (NOTE 2)	DESIGN WIND LOADS (psf) (NOTE 3)	
1 ROOF	10	25.0	-26.7
	20	24.5	-25.8
	50	23.8	-24.1
	100	23.3	-23.3
2 ROOF	10	25.0	-30.2
	20	24.5	-29.3
	50	23.8	-27.6
	100	23.3	-26.7
3 ROOF	10	25.0	-30.2
	20	24.5	-29.3
	50	23.8	-27.6
	100	23.3	-26.7
4 WALL	10	26.7	-28.4
	20	25.8	-27.6
	50	25.0	-26.7
	100	24.1	-25.0
5 WALL	10	26.7	-33.6
	20	25.8	-31.9
	50	25.0	-29.3
	100	24.1	-27.6

LOADS AT ROOF OVERHANG

ZONE (NOTE 1)	AREA (SQ/FT) (NOTE 2)	DESIGN WIND LOADS (psf) (NOTE 3)	
2 ROOF	10	10.0	-43.9
	20	10.0	-43.1
	50	10.0	-41.3
	100	10.0	-40.5
3 ROOF	10	10.0	-43.9
	20	10.0	-43.1
	50	10.0	-41.3
	100	10.0	-40.5

2 S002 WIND LOADS AT COMPONENTS AND CLADDING

NOTES:
1. ZONES ARE PORTIONS OF THE WALLS OR ROOFS WHERE WIND LOADS ARE APPLIED, AS SHOWN ON THE "COMPONENT AND CLADDING LOAD DIAGRAM". THE WIDTH OF THE EDGE STRIPS "a" SHALL BE 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 40 PERCENT OF THE EAVE HEIGHT "h", WHICHEVER IS LESS, BUT NOT LESS THAN EITHER 4 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 3 FEET.

2. AREA IS THE "EFFECTIVE WIND AREA" ON ELEMENTS OF THE COMPONENTS AND CLADDING, AND CLADDING FASTENERS. AS DEFINED IN IBC 1609.6.2.

3. BASIC WIND LOAD IS THE WIND LOAD ON COMPONENTS AND CLADDING FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B, AS SHOWN IN THE IBC TABLE 1609.6.2.1(2).

4. BASIC WIND LOAD IS THE WIND LOAD ON ROOF OVERHANG COMPONENTS AND CLADDING FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B, AS SHOWN IN THE IBC TABLE 1609.6.2.1(3).

5. DESIGN WIND LOADS ARE THE BASIC WIND LOADS MULTIPLIED BY THE APPROPRIATE HEIGHT AND EXPOSURE COEFFICIENT FROM TABLE 1609.6.2.1(4) AND IMPORTANCE FACTOR FROM TABLE 1604.5.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

GENERAL NOTES

SHEET S-002

196

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SCALE = 1:1

STATE PROJECT NUMBER
1000-40-70

DESIGN SPECIFICATIONS

- DESIGN IS IN ACCORDANCE WITH THE STATE OF WISCONSIN AND THE 2006 INTERNATIONAL BUILDING CODE.
- MINIMUM 28 DAY CONCRETE CYLINDER STRENGTH SHALL BE:

PILE CAPS	4000 PSI
PIERS	4000 PSI
FOUNDATION WALLS/GRADE BEAMS	4000 PSI
STAIR WALLS	5000 PSI
STRUCTURAL SLAB SYSTEMS	5000 PSI
SLABS ON METAL DECK	4000 PSI
FILL FOR PIPE PILES	3000 PSI
DRILLED PIERS	4000 PSI

- REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
- STRUCTURAL STEEL W-SHAPES SHALL CONFORM TO ASTM A992 GRADE 50.
- STRUCTURAL STEEL PLATES, ANGLES, CHANNELS, AND OTHER ROLLED MEMBERS SHALL CONFORM TO ASTM A36.
- RECTANGULAR OR SQUARE HSS MEMBERS SHALL CONFORM TO ASTM A500 GRADE B.
- STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B.
- ROUND HSS MEMBERS SHALL CONFORM TO ASTM A500 GRADE B.
- DRIVEN PILE CAPACITY IS 25 TONS PER PILE USING 80 FOOT, 10.75 INCH DIAMETER CONCRETE FILLED STEEL PIPE PILES, BASED UPON SOILS REPORTS PREPARED BY GESTRA ENGINEERING, INC. DATED OCTOBER 17, 2007 AND AUGUST 13, 2010.
- DESIGN LOADS:

FLOOR LIVE LOADS (IBC 2006)

MEZZANINE	100 PSF
FUTURE BATTERY STORAGE	300 PSF

WIND LOAD (ASCE 7-05)

MAIN WIND FORCE RESISTING SYSTEM	5 PSF
OCCUPANCY CATEGORY	III
IMPORTANCE FACTOR	Iw = 1.15
BASIC WIND SPEED	90 MPH
EXPOSURE	B
INTERNAL PRESSURE	GCpi +/-0.55

COMPONENT AND CLADDING

- SIGNS TO BE DESIGNED PER ASCE 7-05 SECTION 6.5.14
- INTERNAL COMPONENT AND CLADDING TO BE DESIGNED PER TABLES ON S-002.

SEISMIC LOAD (IBC 2006)

OCCUPANCY CATEGORY	III
IMPORTANCE FACTOR	Ie = 1.25
SPECTRAL RESPONSE ACCELERATIONS	SS = 0.107 g S1 = 0.045 g
SPECTRAL RESPONSE COEFFICIENTS	SDS = 0.179 g SD1 = 0.105 g
SEISMIC RESPONSE COEFFICIENT	Cs = 0.072
RESPONSE MODIFICATION FACTOR	R = 3
SOIL SITE CLASS	E
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC FORCE RESISTING SYSTEM	ORDINARY BRACE FRAMES
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
DESIGN BASE SHEAR	34 KIPS FOR MEZZANINE ONLY

- RESISTANCE TO LATERAL LOADS ON STRUCTURE IS PROVIDED BY FLOOR, ROOF DIAPHRAGMS, AND ROOF STRUCTURAL LATERAL SYSTEM. CONTRACTOR SHALL PROVIDE SUFFICIENT TEMPORARY BRACING UNTIL ALL LATERAL SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL.
- ALL STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING STEEL ERECTION AND CONSTRUCTION. ANY INVESTIGATION OF THE STRUCTURAL FRAMING AND CONNECTIONS FOR ADEQUACY DURING THE STEEL ERECTION AND CONSTRUCTION PROCESS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

GENERAL NOTES

EARTHWORK

- SITE PREPARATION SHALL BE IN ACCORDANCE WITH THE SOILS REPORTS PROVIDED BY GESTRA ENGINEERING, INC. AND DATED OCTOBER 17, 2007 AND AUGUST 13, 2010 PERTAINING TO THE BUILDING INDICATED ON THESE DRAWINGS AND ALL PERTINENT CORRESPONDENCE WITH GESTRA ENGINEERING, INC.
- NO HOLES, TRENCHES OR DISTURBANCES OF THE SOIL SHALL BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, FOOTINGS MUST BE LOWERED.
- PROVIDE MINIMUM 24 INCHES OF FREE DRAINING AGGREGATE AS SPECIFIED OVER ALL DRAIN TILES AND 4 INCHES BELOW.
- BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALL.

CONCRETE

- FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION.
- REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.
- LAP ALL WALL BARS 30 DIAMETERS WITH CLASS B SPLICES UNLESS OTHERWISE DETAILED. LAP WELDED WIRE MESH 6 INCHES.
- PROVIDE WALL AND PIER DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE WALL AND PIER REINFORCING UNLESS OTHERWISE DETAILED.
- WHEREVER AN APPROVED PIPE OR CONDUIT EXTENDS THROUGH A BEAM, PROVIDE ONE ADDITIONAL STIRRUP ON EACH SIDE OF THE OPENING.
- CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-05.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE.
- DO NOT PLACE OR CUT HOLES IN CONCRETE BEAMS, SLABS, OR WALLS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- ALL CONCRETE SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE 5 PERCENT (+/- 1 ½ PERCENT).
- CAMBER CONCRETE MEMBERS FOR DEAD LOAD DEFLECTION BY ADJUSTING FORMS.
- PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE STRUCTURAL ENGINEER. PIPE AND CONDUITS EMBEDDED IN CONCRETE SHALL NOT BE LARGER THAN 2 INCHES IN OUTSIDE DIAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL.
- ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT:
  1. THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER.
  2. THE CONCRETE COVER IS NOT LESS THAN 2 INCHES.
  3. THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.
- ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE.
- CHAMFER ALL EXPOSED CONCRETE CORNERS. SEE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR REQUIREMENTS.
- CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING.
- CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.
- PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW THE WATER TABLE AND AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", THIRTEENTH ADDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", MARCH 18, 2005 EDITION.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL WHICH SHALL REMAIN EXPOSED TO VIEW SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL", LATEST EDITION, WITHOUT GAPS OR OPEN JOINTS.
- STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
- ALL WELDING SHALL COMPLY WITH AWS D1.1 USING E70XX ELECTRODES. ALL WELDING TO BE DONE BY AWS PREQUALIFIED WELDERS, CERTIFIED FOR WELDS MADE. PROVIDE CONTINUOUS MINIMUM SIZED WELDS PER AISC REQUIREMENTS, UNLESS NOTED OTHERWISE.
- THE MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL".
- MINIMUM STRENGTH OF WELDED CONNECTIONS: UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL SHOP AND FIELD WELDS SHALL DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER OF ELEMENT JOINED. ALL MEMBERS WITH MOMENT CONNECTIONS, NOTED ON THE DRAWINGS, SHALL BE WELDED TO DEVELOP THE FULL FLEXURAL CAPACITY OF THE MEMBER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325 HIGH STRENGTH BOLTS (MINIMUM 3/4-INCH DIAMETER). CONNECTIONS SHALL SUPPORT, AT A MINIMUM, ONE-HALF THE TOTAL FACTORED UNIFORM LOAD CAPACITY SHOWN IN THE AISC TABLES OF UNIFORM LOAD CONSTANTS FOR THE GIVEN BEAM, SPAN, AND STEEL SPECIFIED, UNLESS OTHERWISE DETAILED. BEAM-TO-BEAM AND BEAM-TO-COLUMN FRAMING CONNECTIONS SHALL BE MADE WITH DOUBLE ANGLES UNLESS OTHERWISE DETAILED.
- ALL STRUTS, HANGERS, AND BRACES SHALL HAVE CONNECTIONS DESIGNED TO DEVELOP THE FULL ALLOWABLE TENSILE STRENGTH OF THE MEMBER UNLESS THE DESIGN FORCE IS INDICATED ON THE DRAWINGS, IN WHICH CASE THE CONNECTIONS SHALL BE DESIGNED FOR THE FORCE INDICATED.
- COLUMN BASE PLATES SHALL HAVE OVERSIZED HOLES WITH PLATE WASHERS (MINIMUM 3/8-INCH THICK) PROVIDED WITH ANCHOR RODS.
- GROUT UNDER BASE PLATES IN ACCORDANCE WITH THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", MARCH 18, 2005 EDITION.
- STEEL FLOOR DECK SHALL BE FASTENED TO ALL STRUCTURAL SUPPORTS BY 5/8" DIAMETER PUDDLE WELDS @ 12" OC. SIDELAPS ARE REQUIRED AT 36" ON CENTER MAXIMUM.
- DECK END LAPS SHALL BE 2-INCH MINIMUM AND SHALL OCCUR AT SUPPORTS. LOCATE AT VALLEYS AND RIDGES.
- WHERE CONTINUOUS DIAPHRAGM CHORD ANGLES ARE INDICATED, PROVIDE A FULL PENETRATION WELD AT THE SPLICE LOCATIONS.
- CLEAN, PREPARE, AND SHOP PRIME EXTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-6.
- CLEAN, PREPARE, AND SHOP PRIME INTERIOR EXPOSED STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH SSPC STANDARDS SP-1 AND SP-3.
- WHILE THE DESIGN DOCUMENTS MAY REFERENCE OSHA, THEY ARE NOT INTENDED TO SPECIFICALLY IDENTIFY ALL APPLICABLE OSHA REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND COMPLY WITH ALL APPLICABLE OSHA REQUIREMENTS.
- ALL STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123, UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL MISCELLANEOUS STEEL.

COLD-FORMED STEEL FRAMING

- DESIGN, FABRICATION, AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE AISI DESIGN MANUAL AS AMENDED TO DATE. ALL FRAMING MEMBERS SHOWN ON PLANS ARE SCHEMATIC AND ARE SHOWN FOR INTENT ONLY.
- LIVE LOAD DEFLECTION CRITERIA FOR COMPONENTS SHALL BE AS FOLLOWS:

WALL STUDS	L/240
ROOF PURLINS	L/240

- LOAD BEARING STUDS NOT VERTICALLY SUPPORTING MASONRY SHALL BE DESIGNED TO CARRY ALL GRAVITY LOADS AND LATERAL FORCES INCLUDING BUT NOT LIMITED TO DEAD LOADS, LIVE LOADS, WIND LOADS, AND AXIAL LOAD ECCENTRICITY.
- NON-LOAD BEARING STUDS NOT VERTICALLY SUPPORTING MASONRY SHALL TRANSFER LATERAL LOADS TO STRUCTURE BY MEANS OF SLIDE CLIPS TO ALLOW FOR VERTICAL MOVEMENT OF PRIMARY STRUCTURAL MEMBERS.
- SPLICES IN AXIALLY LOADED STUDS ARE NOT PERMITTED.
- STUDS, TRACK, AND ACCESSORIES SHALL BE GALVANIZED WITH A MINIMUM G-90 COATING PER ASTM A-525.
- STUDS SHALL BE PLUMBED, ALIGNED, AND SECURELY ATTACHED TO FLANGES OR WEBS OF LOWER TRACK. STUDS SHALL BE SEATED TIGHT TO TRACK WEBS PRIOR TO ATTACHMENT.
- JOINTS SHALL BE LOCATED DIRECTLY OVER BEARING STUDS OR A LOAD DISTRIBUTION MEMBER SHALL BE PROVIDED AT THE TOP OF THE WALL.
- REFER TO ARCHITECTURAL WALL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
- ALL MEMBERS 0.0566 INCH MINIMUM THICKNESS OR THICKER (16 GAGE OR LOWER) SHALL BE OF MINIMUM 50 KSI STEEL. ALL MEMBERS OF 0.0451 INCH MINIMUM THICKNESS OR THINNER (18 GAGE OR HIGHER) AND ALL ACCESSORIES SHALL BE OF MINIMUM 33 KSI STEEL.
- STEEL STUD ERECTOR SHALL CONSTRUCT ALL LIGHTGAGE FRAMING IN A MANNER WHICH PROTECTS LATERAL STABILITY OF THE STRUCTURE.
- ALL WELDS PERFORMED ON GALVANIZED LIGHTGAGE COMPONENTS SHALL BE COATED WITH ZINC RICH PAINT FOR CORROSION PROTECTION IN ACCORDANCE WITH ASTM A780. CONTRACTOR SHALL NOTIFY THE ENGINEER TO ALLOW ADEQUATE TIME FOR WELDS TO BE REVIEWED BEFORE SYSTEMS ARE ENCLOSED.
- STEEL STUD WALLS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE REQUIRED CAPACITIES TO CARRY CONSTRUCTION LOADS. CONTRACTOR SHALL PROVIDE NECESSARY BRIDGING OR ATTACHMENT TO WALL SHEATHING BEFORE STRUCTURAL COMPONENTS ARE LOADED.

MISCELLANEOUS

- DIMENSIONS OF EXISTING CONSTRUCTION OR CONSTRUCTION IN PROGRESS SHALL BE VERIFIED AND COORDINATED PRIOR TO FABRICATION OF STRUCTURAL COMPONENTS.
- VERIFY AND COORDINATE, WITH ALL CONTRACTORS, THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS.
- EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.
- ADHESIVE ANCHORS SHALL BE HILTI RE-500-SD.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS PRIOR TO FABRICATION: STRUCTURAL STEEL, CONCRETE REINFORCING, CONCRETE MIX DESIGN, METAL DECK, ELEVATOR, ESCALATOR AND PILE DRIVING REPORTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

MEZZANINE
GENERAL NOTES

SHEET S-003

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FILE=
SCALE =

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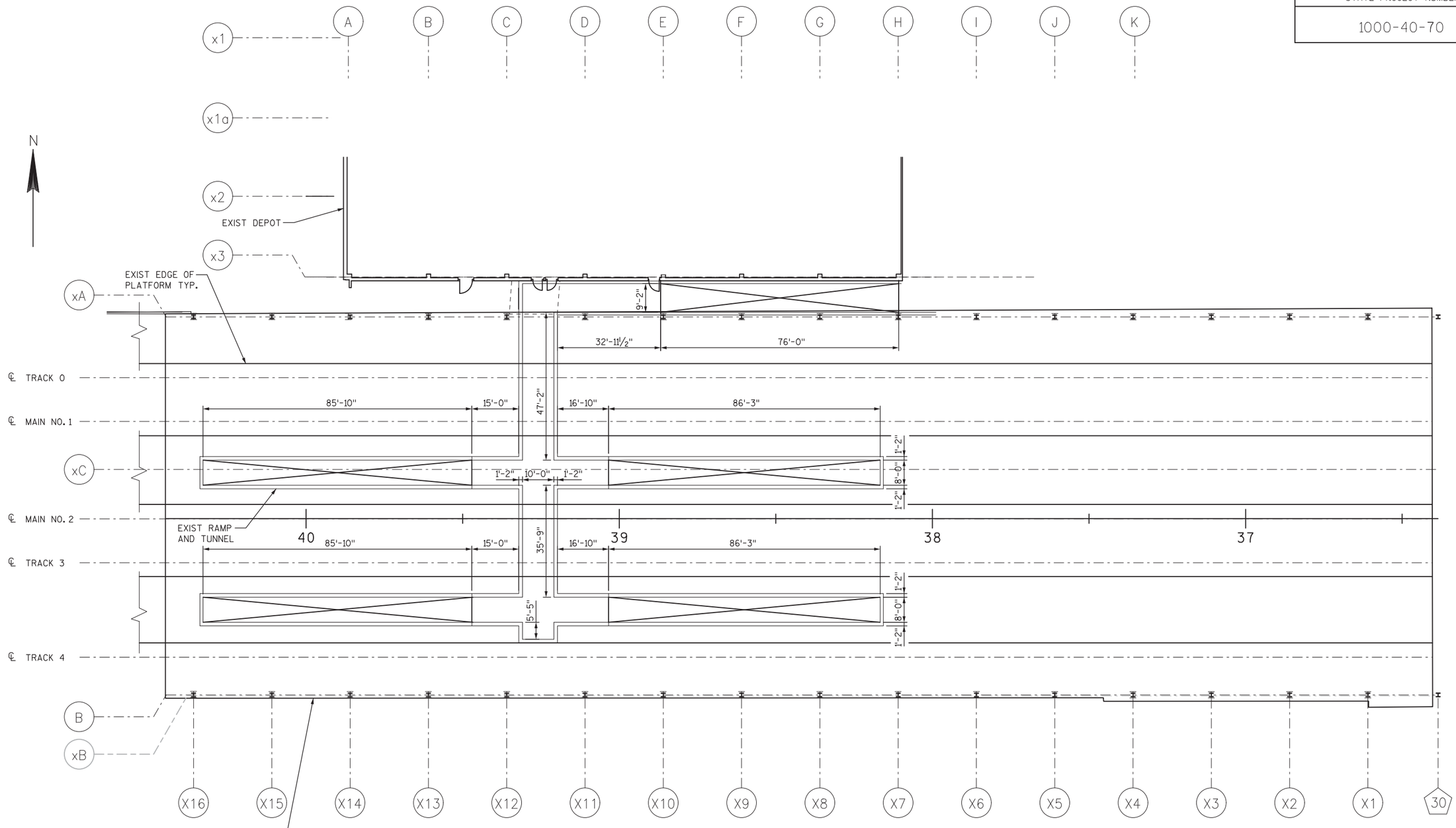
STATE PROJECT NUMBER

1000-40-70



PLAN

NOTES:
1. VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

EXISTING TUNNEL PLAN

SHEET S-101

198

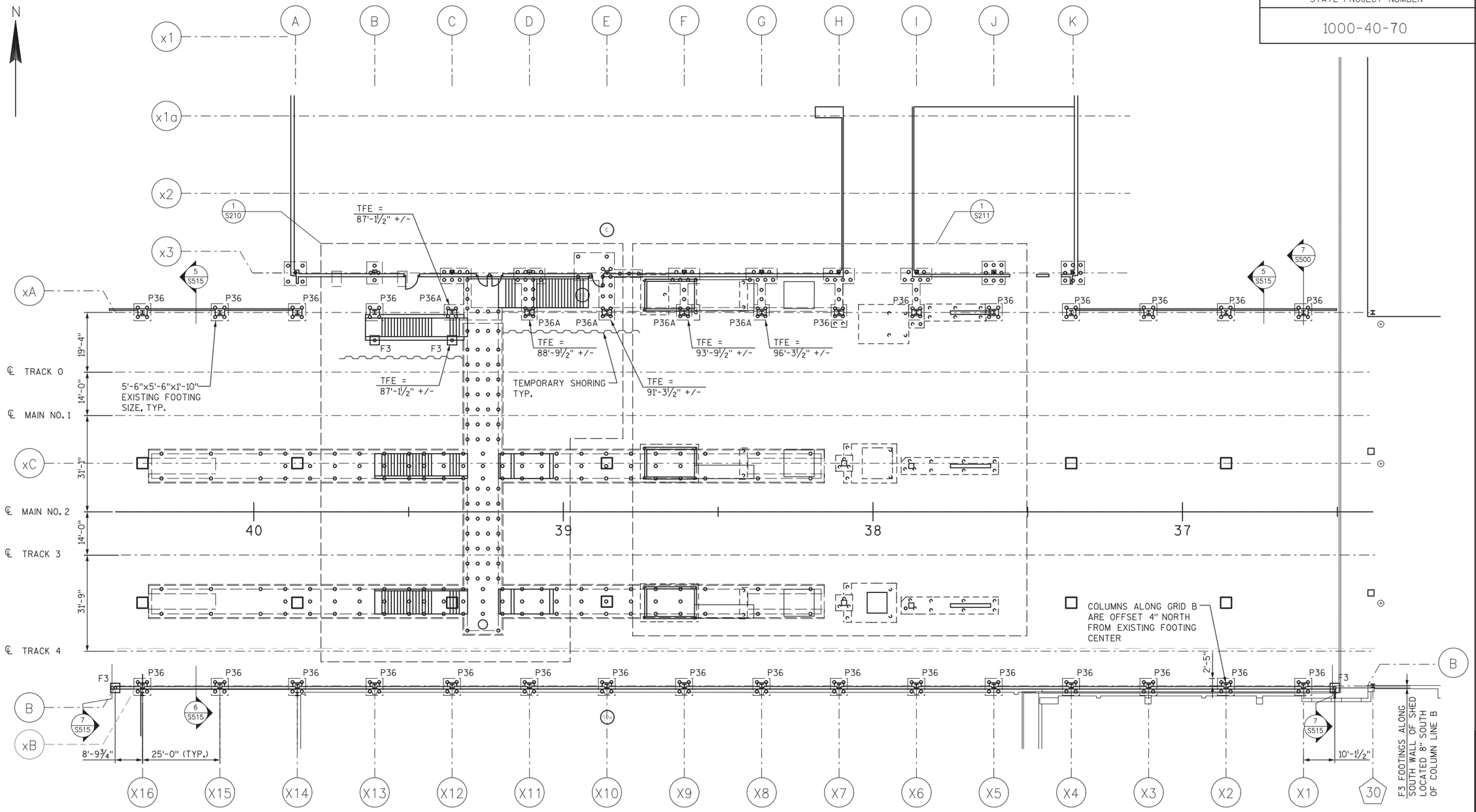
FILE= 20038_S101 EX FNDN PLAN.DGN
SCALE = 1:32

8

8

STATE PROJECT NUMBER

1000-40-70



PLAN

NOTES:
1. REFER TO GENERAL STRUCTURAL NOTES ON SHEETS S001 & S002.
2. REFER TO STEEL COLUMN SCHEDULE AND DETAILS ON SHEET S400.
3. REFER TO TYPICAL CONCRETE DETAILS ON SHEET S500.
4. ALL COLUMNS ARE CENTERED ON EXISTING FOOTINGS, UNO.
5. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL PLANS REFER TO ARCHITECTURAL PLANS.
6. F3 INDICATES FOOTING SUPPORTED BY A DRIVEN PILE. SEE FOOTING SCHEDULE ON SHEET S002. TFE = 96'-9½", UNO.
7. P36 INDICATES CONCRETE PIER. SEE PIER SCHEDULE ON SHEET S002. TPE = 97'-6", UNO.
8. TFE = 96'-9½" (+/-), UNO, FOR EXISITNG FOOTINGS.
9. ⁓⁓⁓ DENOTES TEMPORARY SHORING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

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FOUNDATION PLAN

SHEET S-201

199

FILE= 20038_S201FNDN PLAN.DGN
SCALE = 1:32

8

8

STATE PROJECT NUMBER

1000-40-70

N

x1 A B C D E F G H I J K

x1a

x2

x3

xA

5 S515 59'-5½"

1 S513

5 S514

3 S514

5 S515 84'-5½"

10'-3¾" PLATFORM 14'-3"

10'-3¾" PLATFORM

19'-4"

℄ TRACK 0

14'-0"

2 PLANKS AT 12'-0" = 24'-1½"

1 S212

℄ MAIN NO. 1

xC

31'-1"

PLATFORM 40 39 38 37 PLATFORM

20'-11½"

℄ MAIN NO. 2

14'-0"

2 PLANKS AT 12'-0" = 24'-1½"

1 S212

℄ TRACK 3

xD

31'-9"

PLATFORM PLATFORM

20'-5½"

℄ TRACK 4

10'-3¾" 10'-3¾"

B

xB

6 S515 6 S515

25'-0" (TYP.)

6'-0"

X16 X15 X14 X13 X12 X11.8 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1 30

8

8

PLAN

NOTES:

▨ = PROPOSED SOLID PRECAST, PRESTRESSED CONCRETE DECK AREA

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STRUCTURES DESIGN SECTION

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PROPOSED PLATFORM PLAN

SHEET S-202

200

FILE= 20038_S202 PTFM PLAN.DGN

SCALE = 1:32

STATE PROJECT NUMBER

1000-40-70

N

x1 x1a x2 x3 xA xC xB

A B C D E F G H I J K

1 S213

1 S214

1 S215

1 S215

19'-4"

14'-0"

31'-1"

14'-0"

31'-9"

℄ TRACK 0

℄ MAIN NO. 1

℄ MAIN NO. 2

℄ TRACK 3

℄ TRACK 4

40 39 38 37

25'-0" (TYP.)

X16 X15 X14 X13 X12 X11 X10 X9 X8 X7 X6 X5 X4 X3 X2 X1 30

8

8

PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

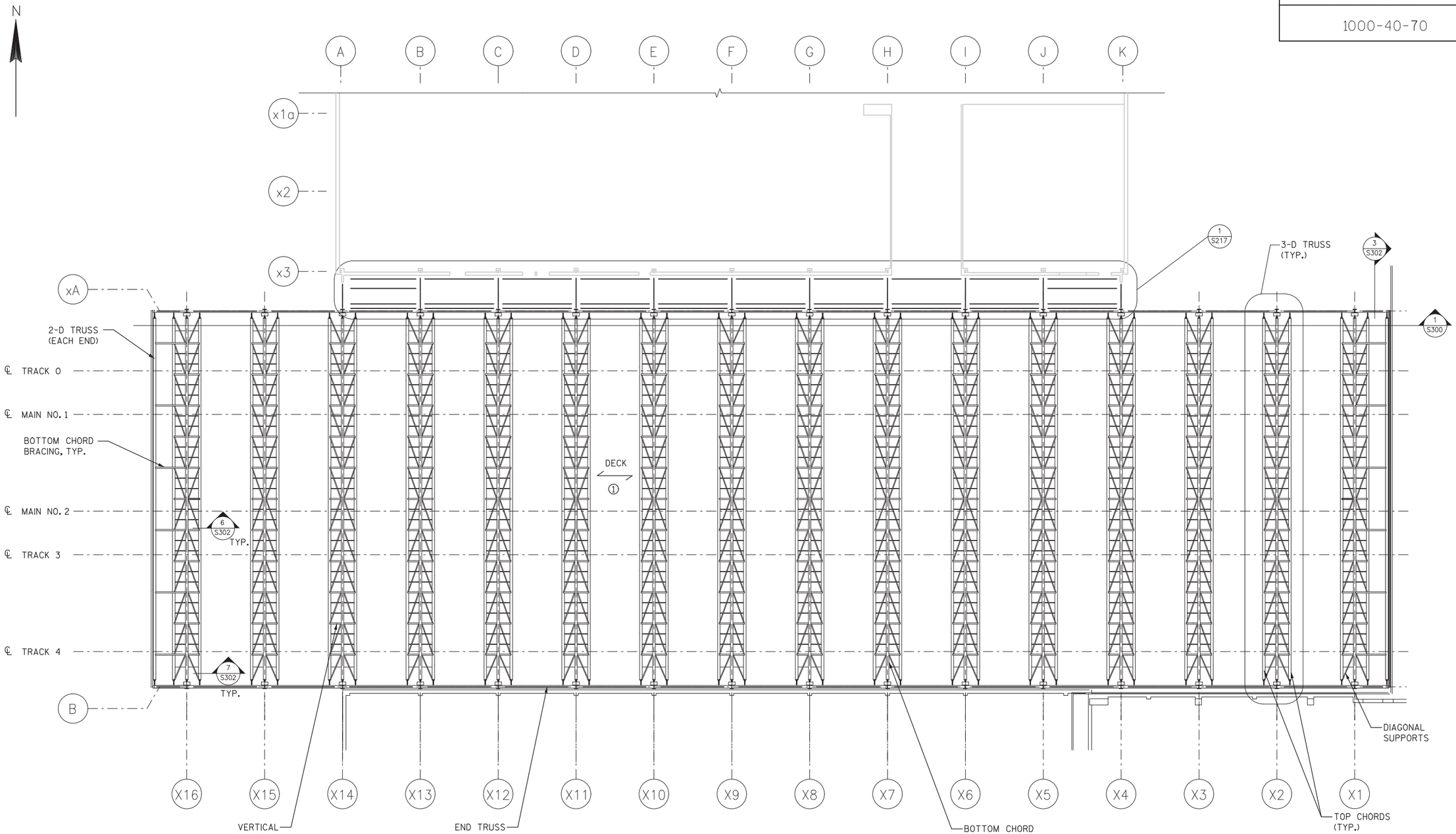
MEZZANINE PLAN

SHEET S-203

201

FILE= 20038_S203 MEZZ PLAN.DGN
SCALE = 1:32

STATE PROJECT NUMBER
1000-40-70



TRUSS PLAN

NOTES:
1. SEE SHEET A103 FOR DECK OPENINGS AND FOR ROOF VENTILATORS.

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. AJK

ROOF PLAN

SHEET S-204

202

FILE= 20038_S204 ROOF PLAN.DGN
SCALE = 1:32

8

8

STATE PROJECT NUMBER

1000-40-70

N

XA

XC

B

X14

X13

X12

X11

X10

1'-10⅞"

9'-4"

2'-2"

8'-4"

36'-7¾"

8'-0"

7'-2"

120'-8"

36'-6¾"

7'-2"

5'-5¼"

1 S514

2 S514

3 S514

4 S514

8 S514

1 S513

1 S510

1 S511

11 S514

3 S212

6 S514

11 S514

9 S514

1 S512

7 S514

11 S514

9 S514

10 S514

8 S514 SIM

3 S212

1 S512

9 S500

5'-4" 16'-0" 6'-0" 5'-8"

10'-0"

2'-4" 16'-0" 11'-8" 5'-0" 11'-6" 1'-2"

5'-4" 6'-0" 16'-0" 1'-8"

25'-0" 25'-0" 25'-0" 25'-0"

10'-0" REF.

℄ TRACK 0

℄ MAIN NO. 1

℄ MAIN NO. 2

℄ TRACK 3

℄ TRACK 4

PLATFORM 1 (ABOVE)

EXISTING FOUNDATION

EXISTING TIMBER PILES, (TYP.)

PLATFORM 2 (ABOVE)

LINE OF PLATFORM EDGE ABOVE, TYP

CLOSURE WALL SEE DETAIL 1 ON SHEET S512

PLATFORM 3 (ABOVE)

PLAN

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

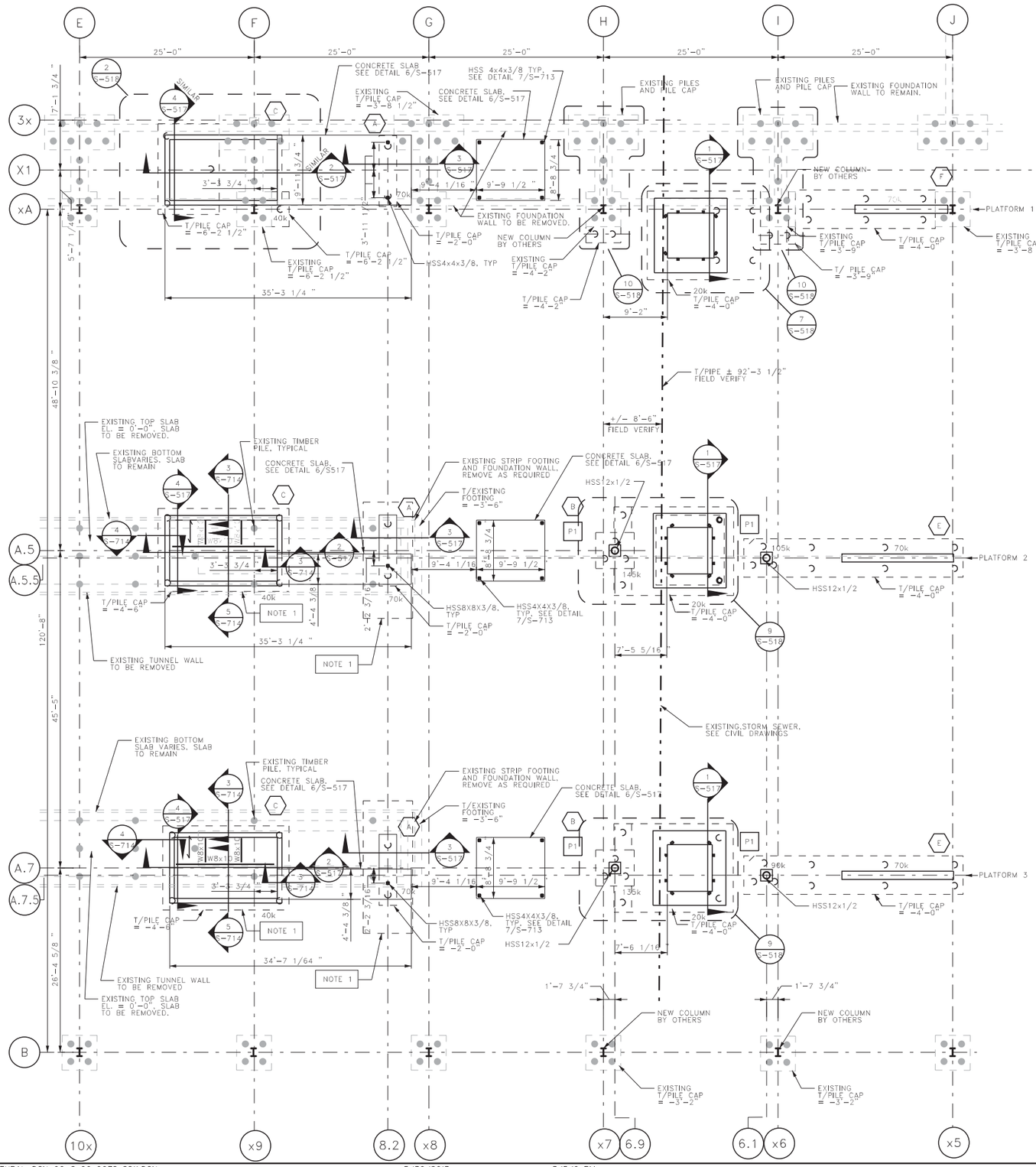
PLAN OF TUNNEL

SHEET S-210

203

FILE= 20038_S210 PRTL PLANS.DGN
SCALE = 1:16

STATE PROJECT NUMBER
1000-40-70



FOUNDATION PLAN

1/8"=1'-0"

- SEE CIVIL DRAWINGS FOR SLAB ON GRADE/PLATFORM.
- ⬡ = PILE CAP, SEE SCHEDULE ON SHEET S-516.
- ▭ = 26"X26" CONCRETE PIER, SEE DETAIL 1/S-516 FOR MORE INFO
- FOR OPENINGS IN GRADE BEAMS/FOUNDATION WALLS AND PILE CAPS, SEE DETAIL 9/S-516.
- FOR GRADE BEAM/FOUNDATION WALLS CONSTRUCTION & CONTROL JOINT, SEE DETAILS 11&12/S-516.
- FOR GRADE BEAM/FOUNDATION WALL CORNER, SEE DETAIL 10/S-516.
- * = DIMENSIONS INDICATED ONPLAN ARE BASED UPON ESCALATOR BY THYSSENKRUPP ESCALATOR (MODEL FT842-4EK-30D-1200HOR) FINAL SIZE SHALL BE VERIFIED WITH SELECTED ESCALATOR VENDOR'S STANDARD PIT DIMENSIONS. FUTHER COORDINATION IS REQUIRED.
- LOADS SHOWN ARE UNFACTORED AND ARE FOR REFERENCE ONLY.
- SEE DETAIL 8/S-701 FOR BASE PLATES AND ANCHOR BOLTS.
- FOR SIGN SUPPORT – SEE DETAIL 8/S-516, SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR LOCATION.
- NOTE 1 – REMOVE EXISTING RAMP SLAB AS REQUIRED FOR NEW FOUNDATIONS
- SEE SHEET S-003 FOR GENERAL NOTES.
- ⟷ = SPAN DIRECTION OF 1/2" STAINLESS CHECKERED STEEL PLATE, SEE ARCHITECTURAL DRAWINGS. CONNECTION PER MANUFACTURER'S RECOMMENDATION.
- PROVIDE NEOPRENE SHIM BETWEEN STAINLESS STEEL AND STRUCTURAL STEEL.
- 0'-0" ELEVATION = [587.63']

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STRUCTURE MIS SHED

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MEZZANINE FOUNDATION PLAN

SHEET S-211

204

FILE= SCALE =

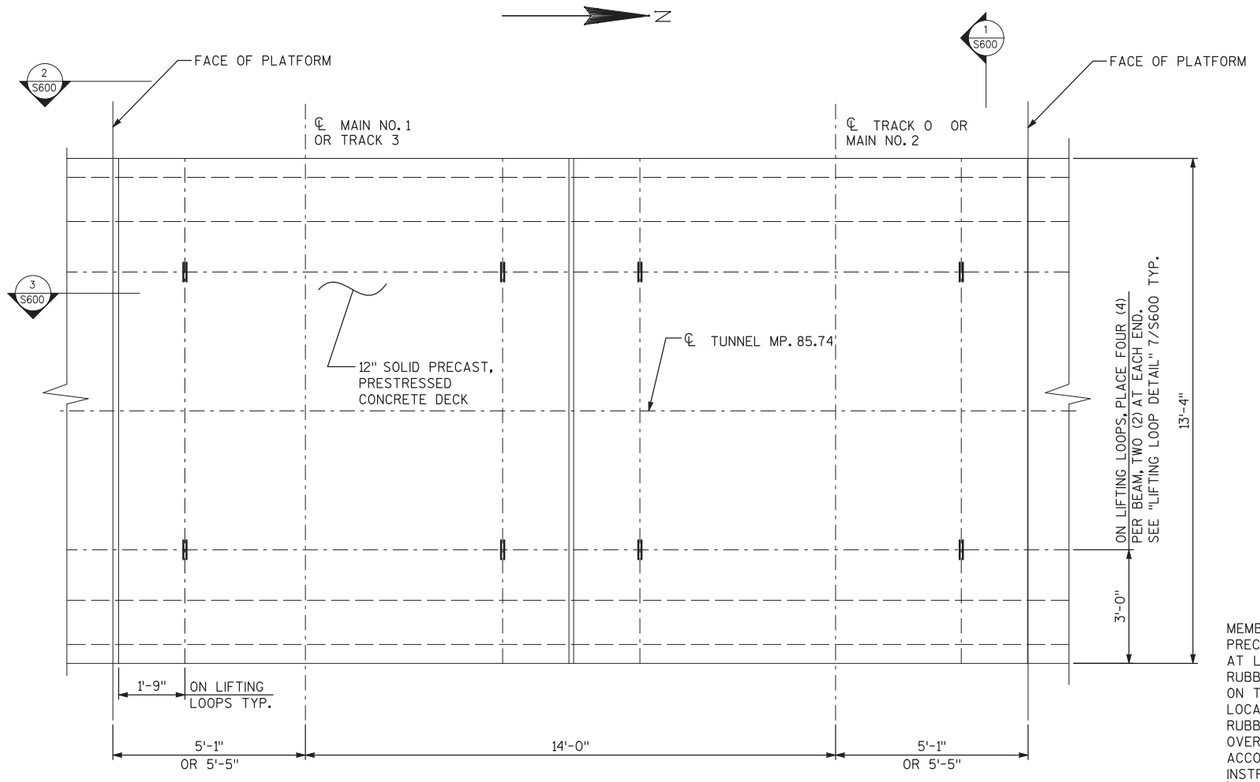
8

8

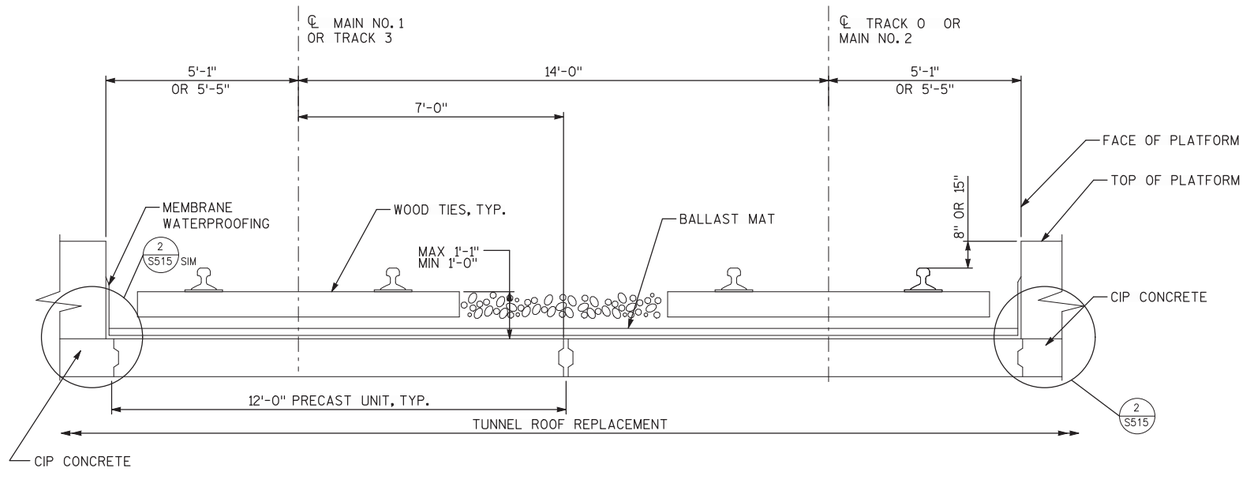
L:±JOBS2010±20100072-01±CAD±STRUCTURAL±DGN±00±S_00_0072_S211.DGN 5/30/2013 3:15:16 PM

STATE PROJECT NUMBER

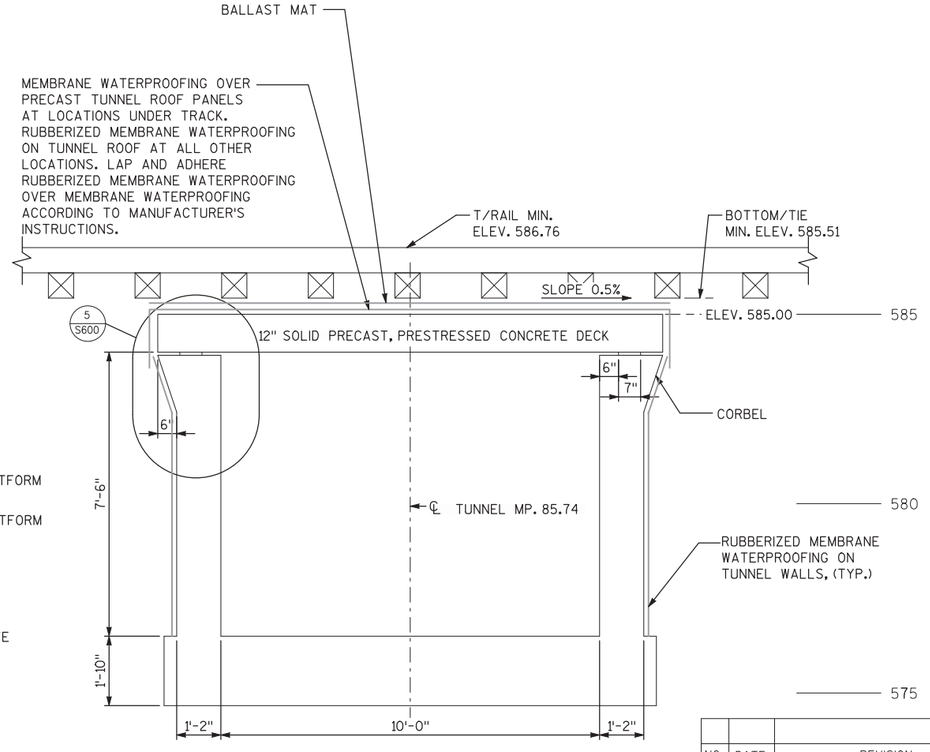
1000-40-70



1 S212 PLAN



2 S212 TYPICAL CROSS SECTION



3 S212 SECTION ELEVATION

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

PARTIAL PLAN OF TUNNEL

SHEET S-212

205

FILE= 20038_S212 PRTL PLANS.DGN
SCALE = 1:4

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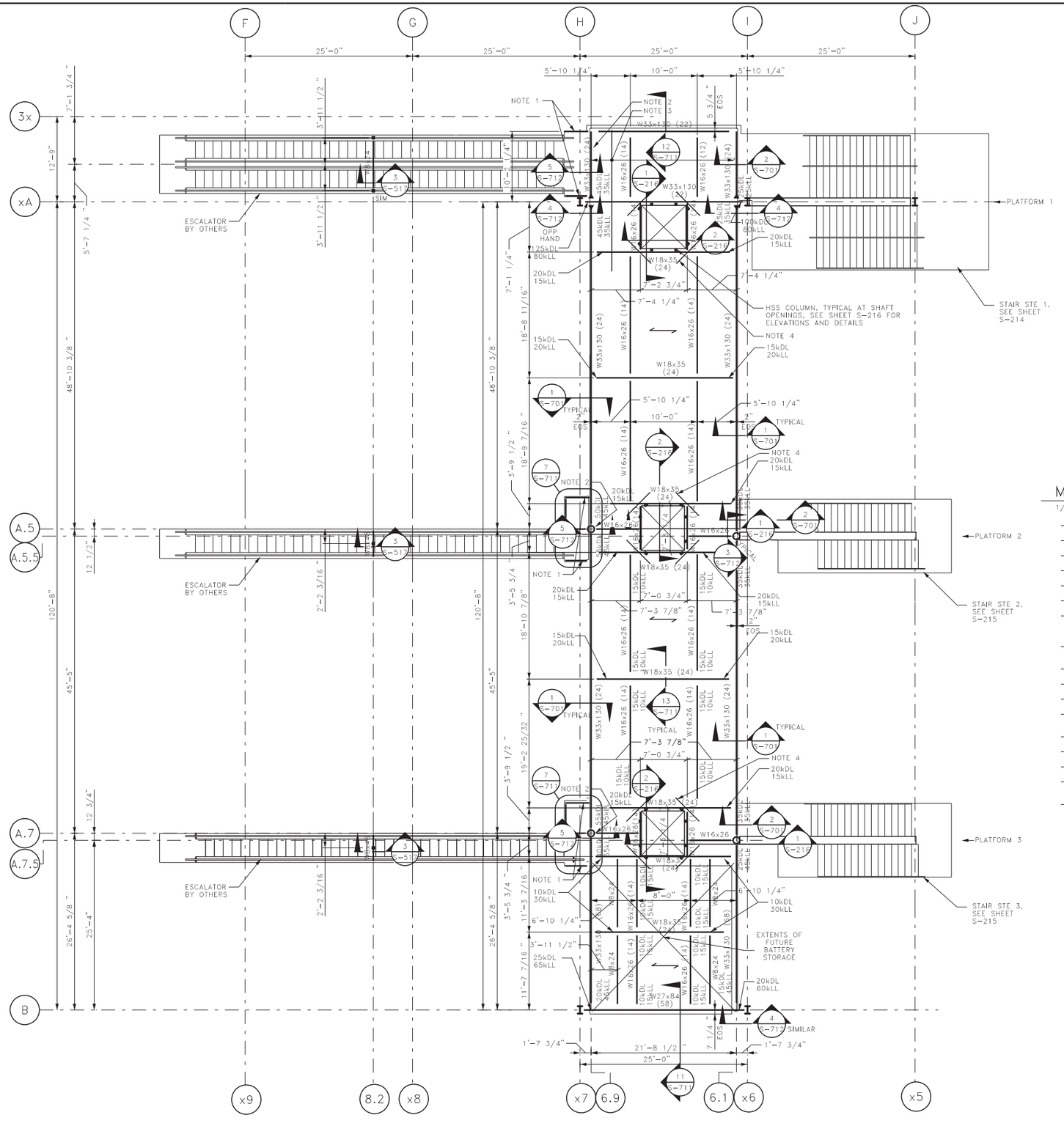
8

STATE PROJECT NUMBER
1000-40-70



MEZZANINE FRAMING PLAN

1/8"=1'-0"

- TOP OF CONCRETE = 26'-0" [613.63]
- TOP OF STEEL = 25'-6" [613.13]
- DL = UNFACTORED DEAD LOAD REACTION
- LL = UNFACTORED LIVE LOAD REACTION
- EOS = EDGE OF SLAB, SEE PLAN.
- ⟷ = DIRECTION OF METAL DECK SPAN.
- 3"x18 GAGE COMPOSITE METAL DECK WITH 3" NORMAL WEIGHT CONCRETE DECK (6" TOTAL) WITH #3@8" O.C. EACH WAY WITH 1" COVER. PLACING E-W REBAR FIRST AND N-S REBAR SECOND (TOP).
- SEE DETAIL 3/S-712 AND 10/S-713 FOR BEAM TO BEAM AND BEAM TO COLUMN CONNECTIONS
- ▶— = MOMENT CONNECTION. REFER TO DETAIL 1/S-712.
- NOTE 1 = (2) HSS8x3x3/8, SEE DETAIL 2/S-712, LOCATION BY OTHERS.
- NOTE 2 = NO STUDS ON STEEL BEAM IN LOCATION OF ESCALATOR.
- NOTE 3 = ADDITIONAL #6@12" O.C. WITH STD. HOOK TOP, LAY HOOK FLAT AS REQUIRED.
- NOTE 4 = ADDITIONAL #5x5'-0" DIAGONAL REBAR TYPICAL AT OPENING CORNERS.
- SEE SHEET S-003 FOR GENERAL NOTES.
- FOR TYPICAL DETAIL FOR COMPOSITE BEAMS SEE S-701.
- BEAM CONNECTIONS TO BE DESIGNED FOR 10 KIPS LIVE LOAD AND 10 KIPS DEAD LOAD (UNFACTORED), UNLESS NOTED OTHERWISE.
- SEE A-105 FOR TOOLED MEZZANINE JOINTS.

N

8

8

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MEZZANINE LEVEL FRAMING PLAN

SHEET S-213

206

FILE=
SCALE =

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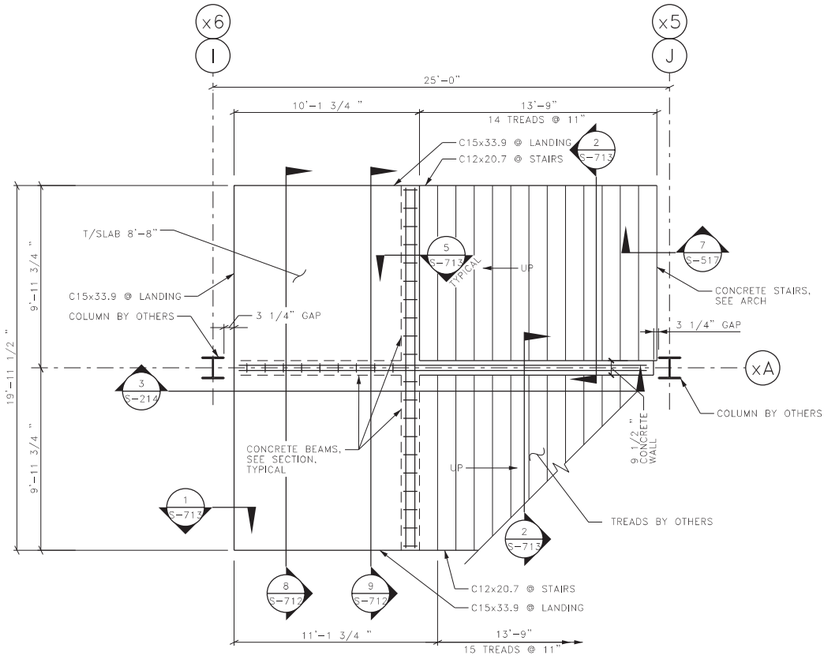
STATE PROJECT NUMBER

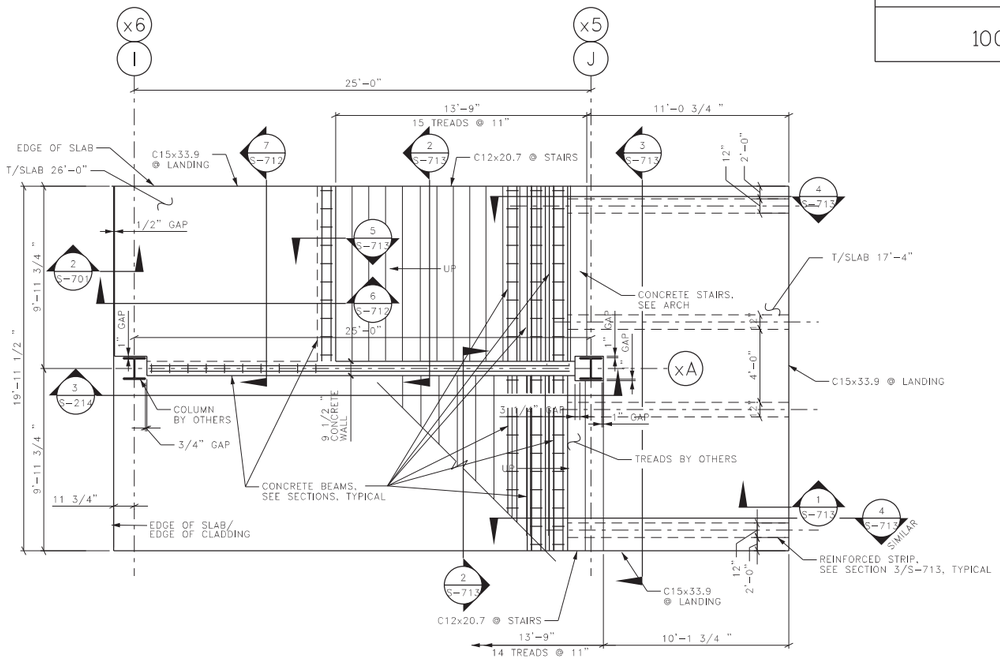
1000-40-70



1 S-214 STAIR STE1 REINFORCEMENT PLAN

1/4"=1'-0"

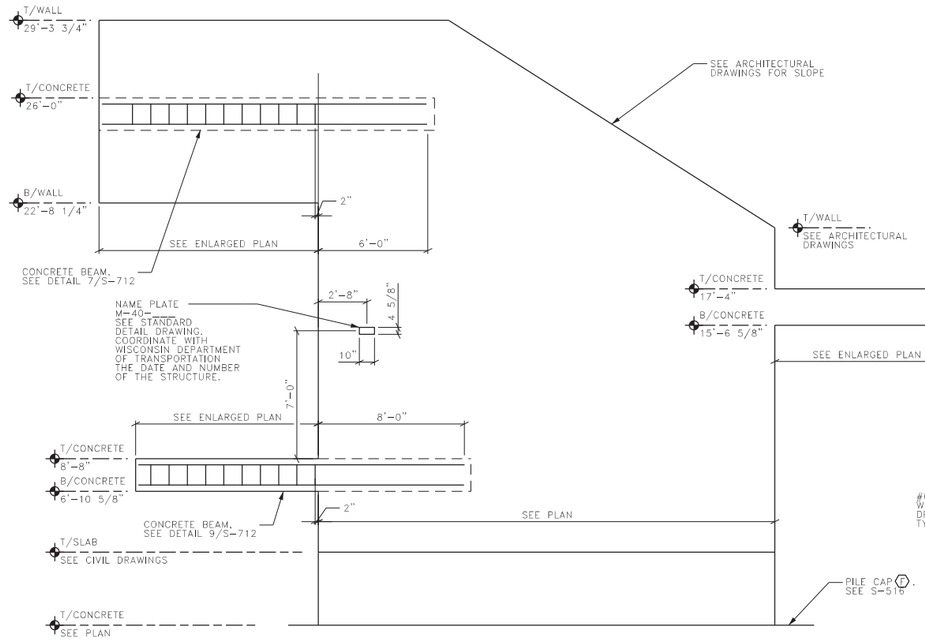
ALL LAPS SHALL BE CLASS B FOR SLABS AND WALLS, UNLESS NOTED OTHERWISE



2 S-214 STAIR STE1 REINFORCEMENT PLAN

1/4"=1'-0"

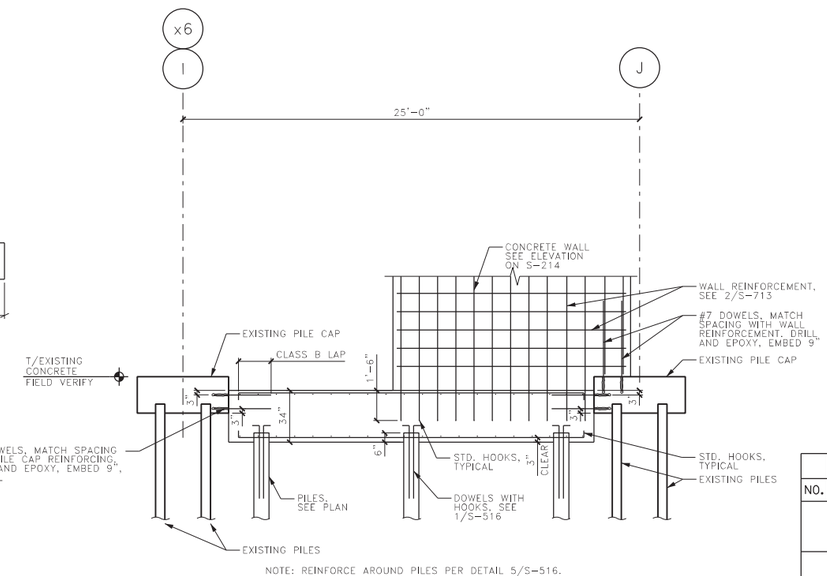
ALL LAPS SHALL BE CLASS B FOR SLABS AND WALLS, UNLESS NOTED OTHERWISE



3 S-214 STAIR STE1 REINFORCEMENT SECTION

1/4"=1'-0"

– NOTES: STEEL COLUMNS NOT SHOWN FOR CLARITY



NOTE: REINFORCE AROUND PILES PER DETAIL 5/S-516.

4 S-214 SECTION

1/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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ENLARGED PLANS

SHEET S-214

207

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FILE=
SCALE =

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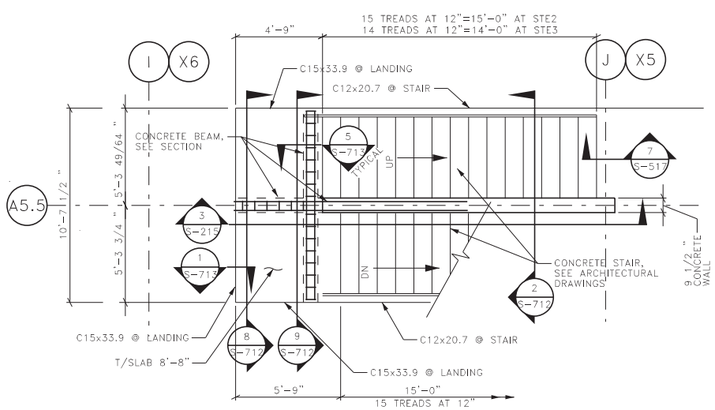
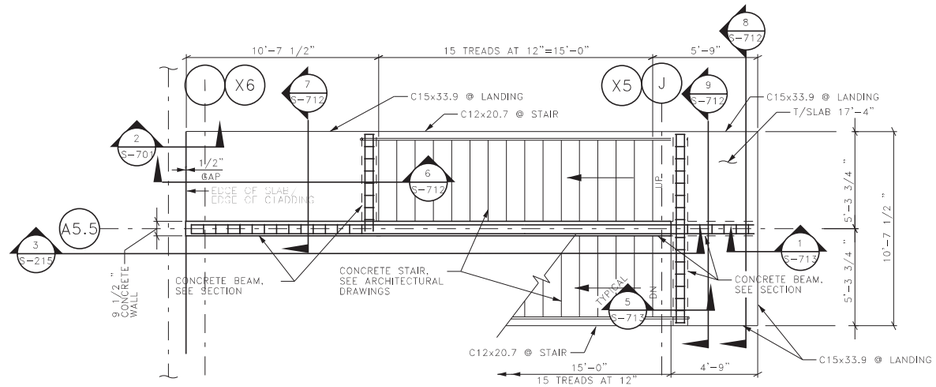
STATE PROJECT NUMBER
1000-40-70



1 S-215 STAIR STE2 AND STE3 REINFORCEMENT PLAN

1/4"=1'-0"

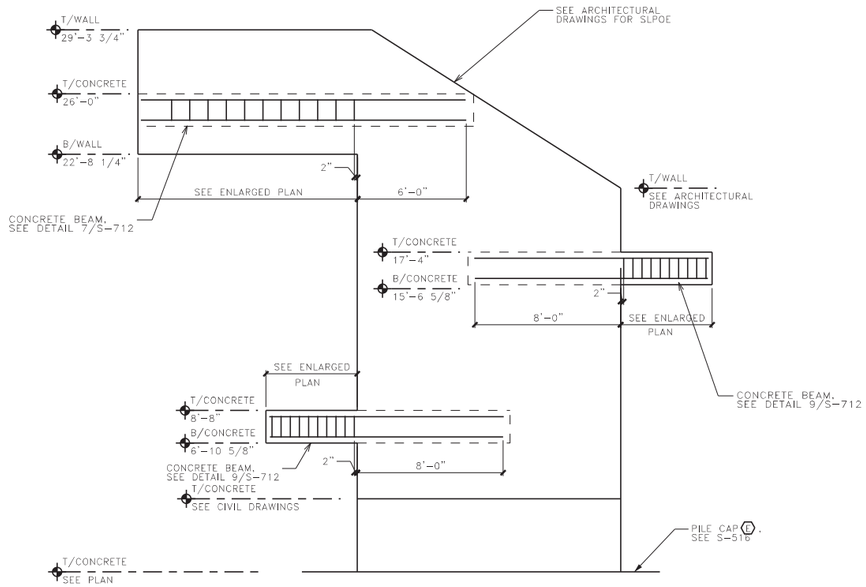
ALL LAPS SHALL BE CLASS B FOR SLABS AND WALLS, UNLESS NOTED OTHERWISE



2 S-215 STAIR STE2 AND STE3 REINFORCEMENT PLAN

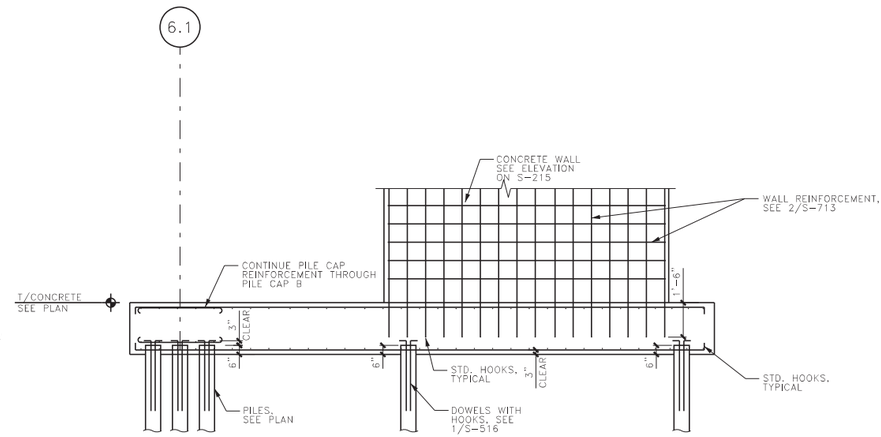
1/4"=1'-0"

ALL LAPS SHALL BE CLASS B FOR SLABS AND WALLS, UNLESS NOTED OTHERWISE



3 S-215 STAIR STE2 AND STE3 REINFORCEMENT SECTION

1/4"=1'-0"



NOTE: REINFORCE AROUND PILES PER DETAIL 5/S-516.

4 S-215 SECTION

1/4"=1'-0"

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ENLARGED PLANS

SHEET S-215

208

8

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FILE=
SCALE =

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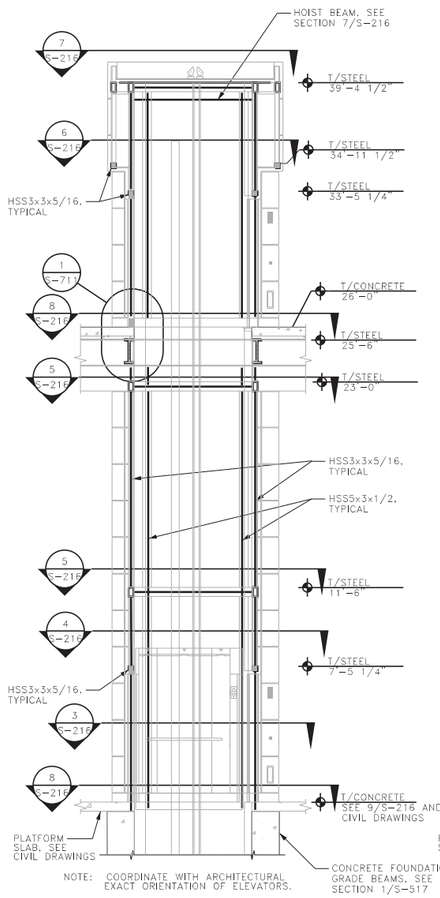
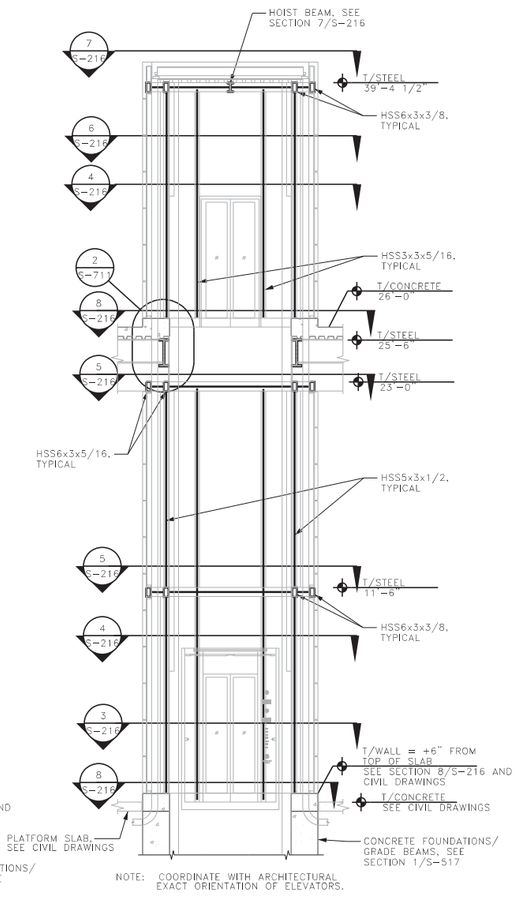
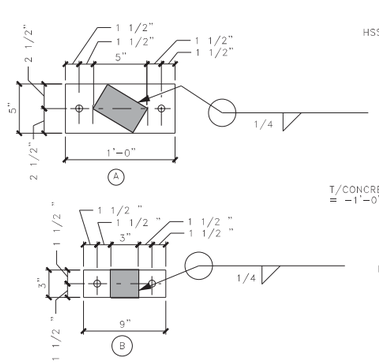
STATE PROJECT NUMBER
1000-40-70

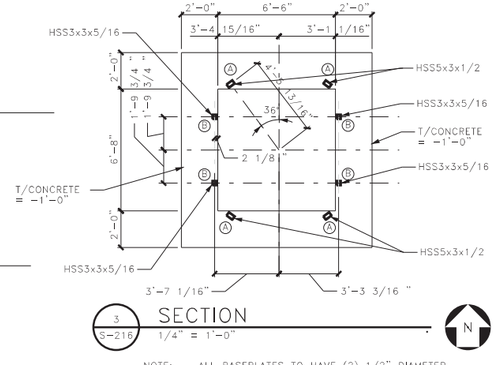


1 S-216 SECTION 1/4" = 1'-0"



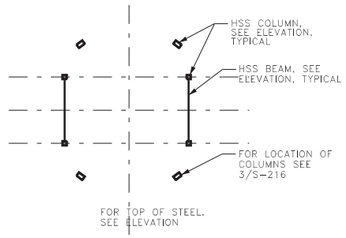
2 S-216 SECTION 1/4" = 1'-0"





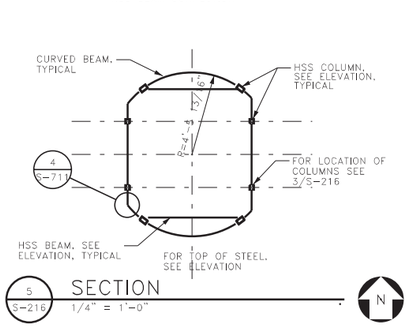
3 S-216 SECTION 1/4" = 1'-0"

NOTE: ALL BASEPLATES TO HAVE (2) 1/2" DIAMETER EPOXY ANCHORS, EMBED 2 1/4"



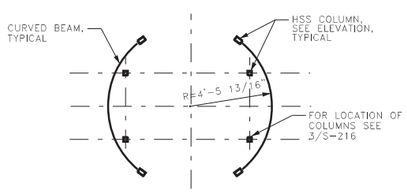
4 S-216 SECTION 1/4" = 1'-0"

NOTE: SEE DETAIL 3/S-711 FOR TYPICAL HSS BEAM CONNECTION



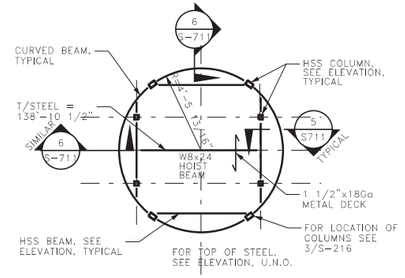
5 S-216 SECTION 1/4" = 1'-0"

NOTE: SEE DETAIL 3/S-711 FOR TYPICAL HSS BEAM CONNECTION



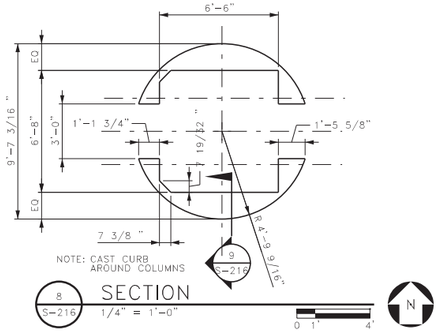
6 S-216 SECTION 1/4" = 1'-0"

NOTE: SEE DETAIL 3/S-711 FOR TYPICAL HSS BEAM CONNECTION

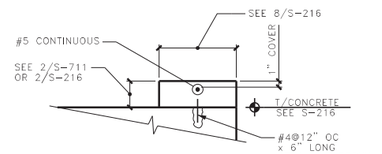


7 S-216 SECTION 1/4" = 1'-0"

NOTE: SEE DETAIL 3/S-711 FOR TYPICAL HSS BEAM CONNECTION



8 S-216 SECTION 1/4" = 1'-0"



9 S-216 SECTION 1"=1'-0"

NO.	DATE	REVISION	BY

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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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ELEVATOR ELEVATIONS AND PLANS

SHEET S-216

209

8

8

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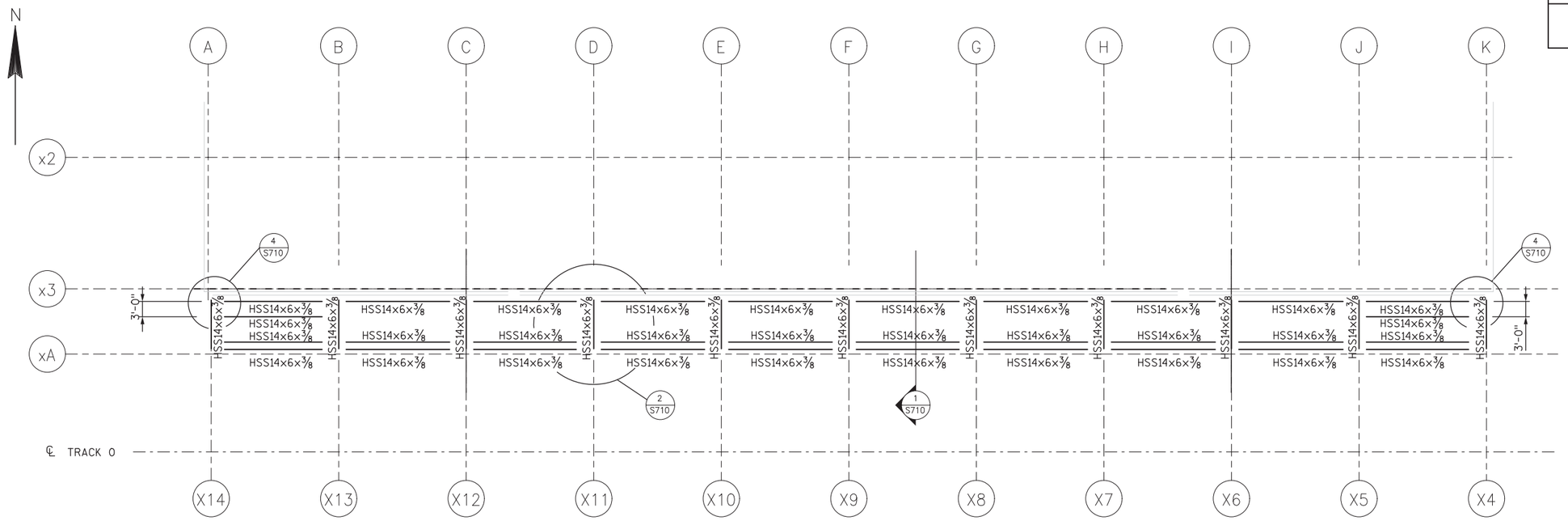
FILE=
SCALE =

STATE PROJECT NUMBER

1000-40-70



1 S217 NORTH CANOPY PLAN

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. AJK

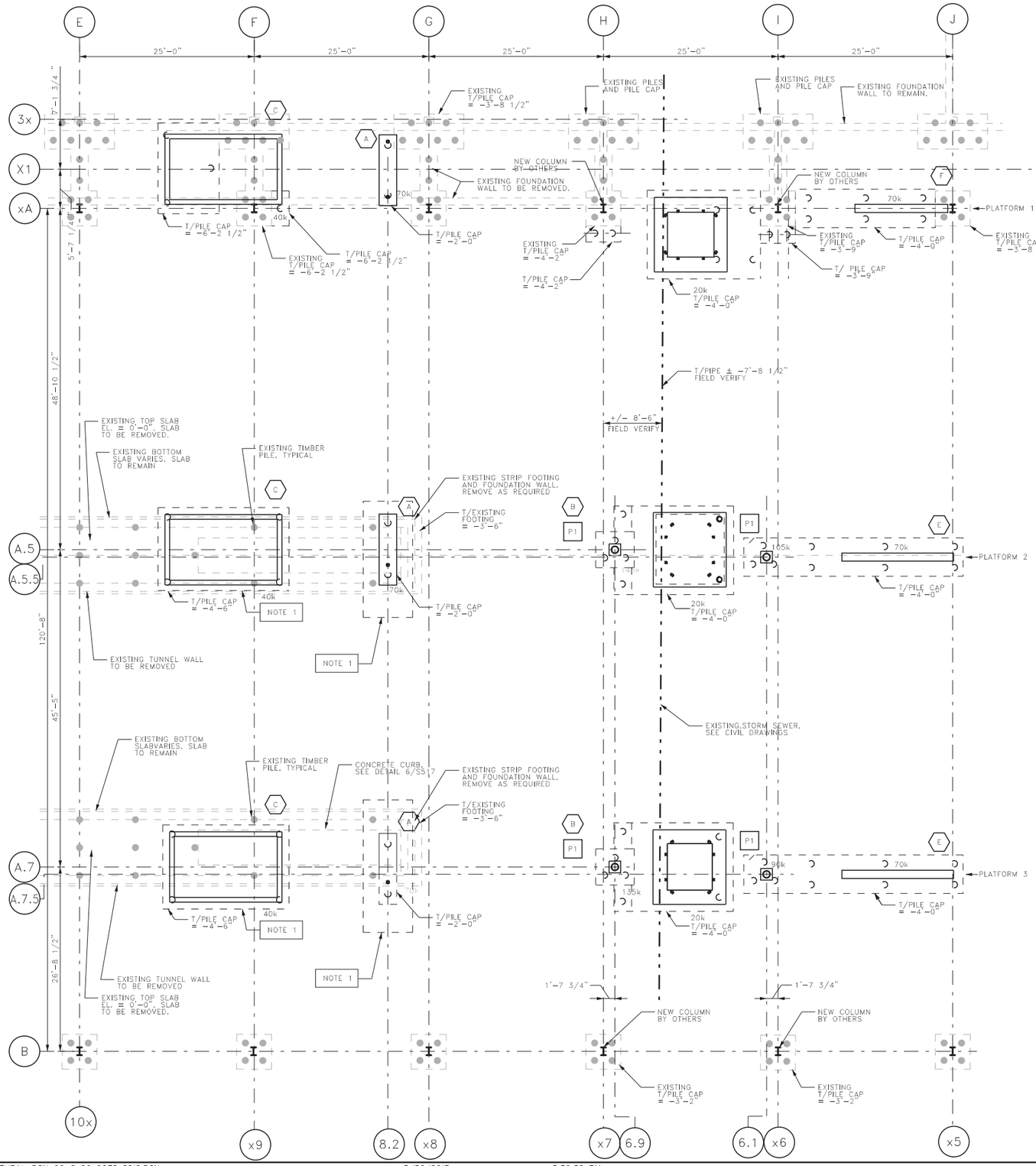
PARTIAL PLANS

SHEET S-217

210

FILE= 20038_S217 PRTL PLANS.DGN
SCALE = 1:24

STATE PROJECT NUMBER
1000-40-70



FOUNDATION PLAN

1/8"=1'-0"

- SEE CIVIL DRAWINGS FOR SLAB ON GRADE/PLATFORM.
- ⬡ = PILE CAP, SEE SCHEDULE ON SHEET S-516.
- □ = 26"X26" CONCRETE PIER, SEE DETAIL 1/S-516 FOR MORE INFO
- * = DIMENSIONS INDICATED ONPLAN ARE BASED UPON ESCALATOR BY THYSSENKRUPP ESCALATOR (MODEL FT842-4EK-30D-1200HOR) FINAL SIZE SHALL BE VERIFIED WITH SELECTED ESCALATOR VENDOR'S STANDARD PIT DIMENSIONS. FUTHER COORDINATION IS REQUIRED.
- LOADS SHOWN ARE UNFACTORED AND ARE FOR REFERENCE ONLY.
- FOR SIGN SUPPORT - SEE DETAIL 8/S-516. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR LOCATION.
- NOTE 1 - REMOVE EXISTING RAMP SLAB AS REQUIRED FOR NEW FOUNDATIONS
- SEE SHEET S-003 FOR GENERAL NOTES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY	BMS	PLANS CK'D.	LB

PILE REFERENCE PLAN

SHEET S-218

211

FILE=
SCALE =

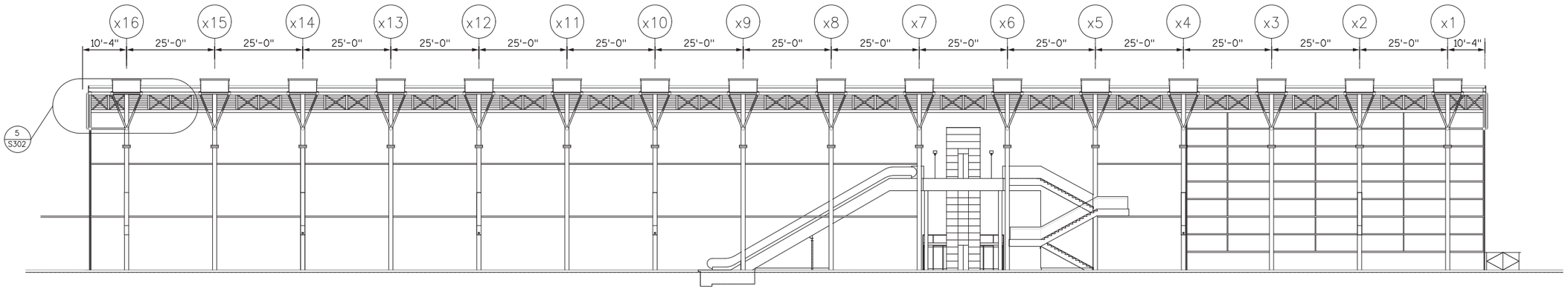
8

8

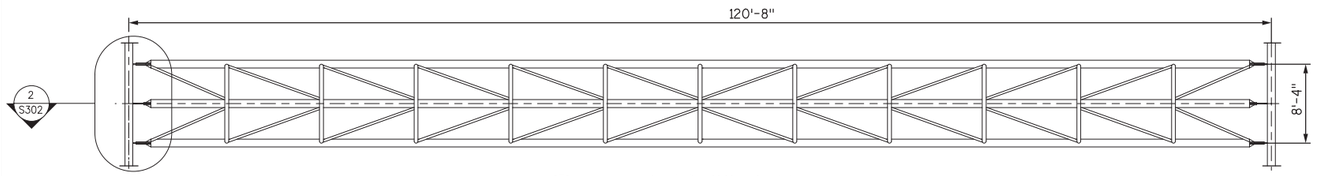
L:\JOBS2010\20100072-01\CAD\STRUCTURAL\DGN\00\S_00_0072_S218.DGN 5/30/2013 3:30:39 PM

STATE PROJECT NUMBER

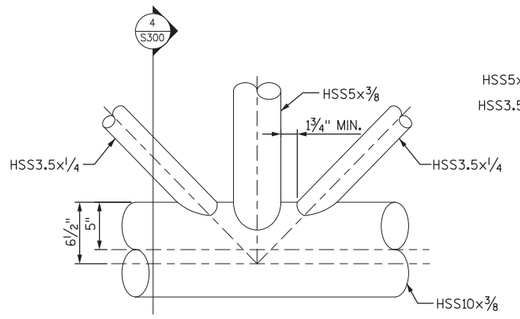
1000-40-70



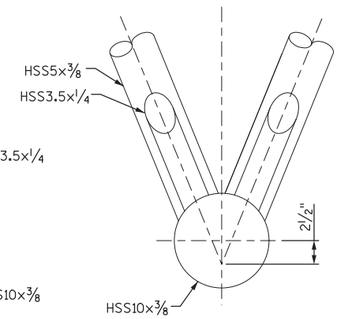
1 S300 NORTH SHED ELEVATION



2 S300 3-D TRUSS PLAN

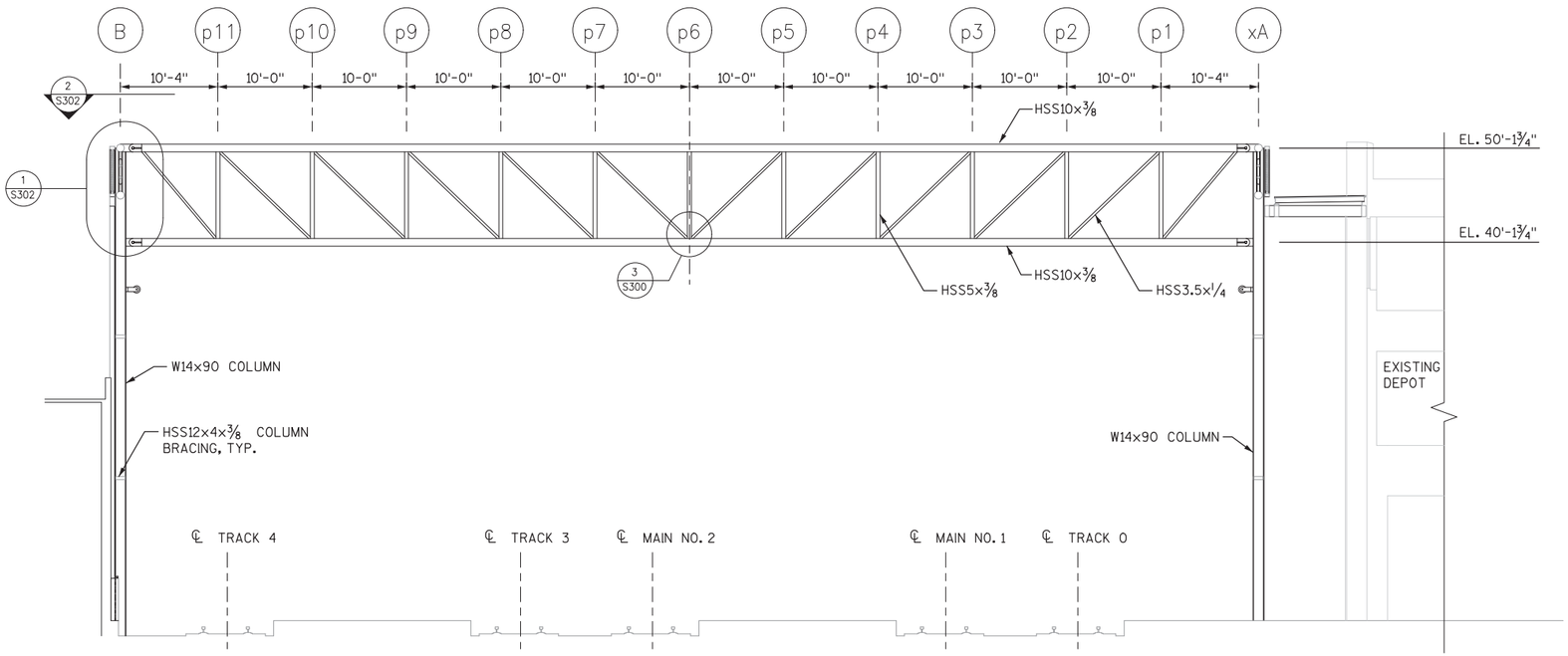


3 S300 CONNECTION DETAIL
(TOP CHORD CONNECTION SIMILAR)



4 S300 SECTION THRU CONNECTION

NOTES:
1. ALL TRUSS MEMBERS AND COLUMNS SHALL BE FABRICATED TO AESS STANDARDS. THIS INCLUDES HSS MEMBERS.



UNFACTORED AXIAL FORCES

3D TRUSS MEMBERS	DL (kips)	SNOW (kips)	WIND (kips)
HSS10	74 k	134 k	13 k
HSS5	13 k	26 k	4 k
HSS3.5	18 k	35 k	6 k

NOTE:
ALL DIMENSIONS TO VERIFIED WITH ARCH. DRAWINGS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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3-D TRUSS ELEVATION

SHEET S-300

212

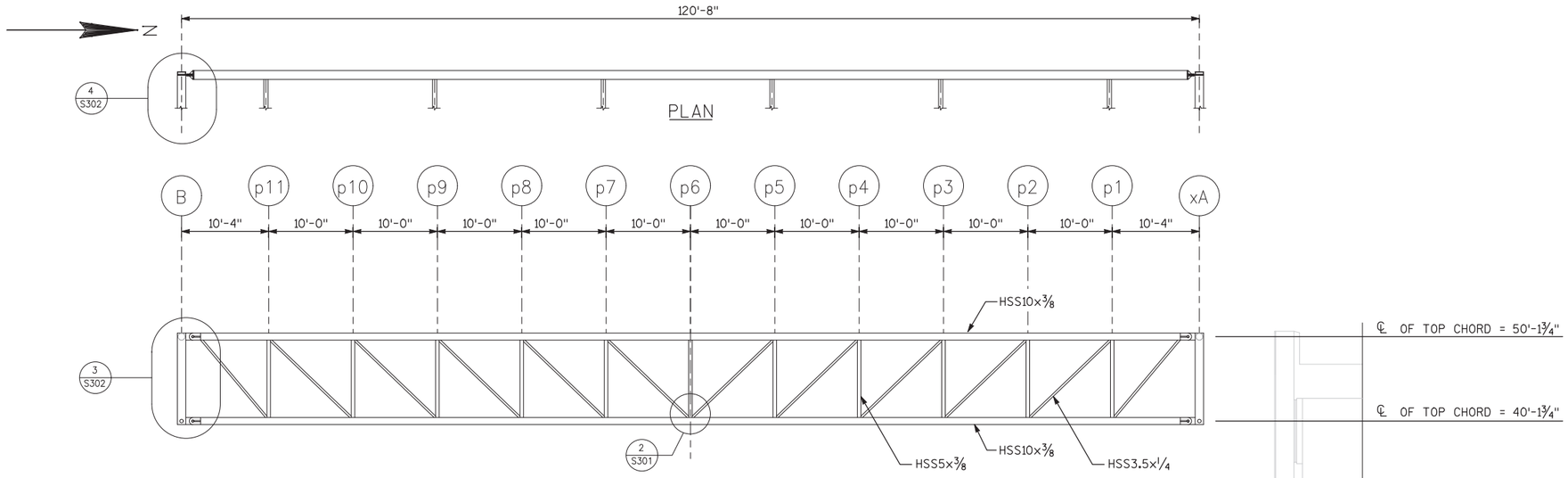
FILE= 20038_S300 TRSS ELEV.DGN
SCALE = 1:32

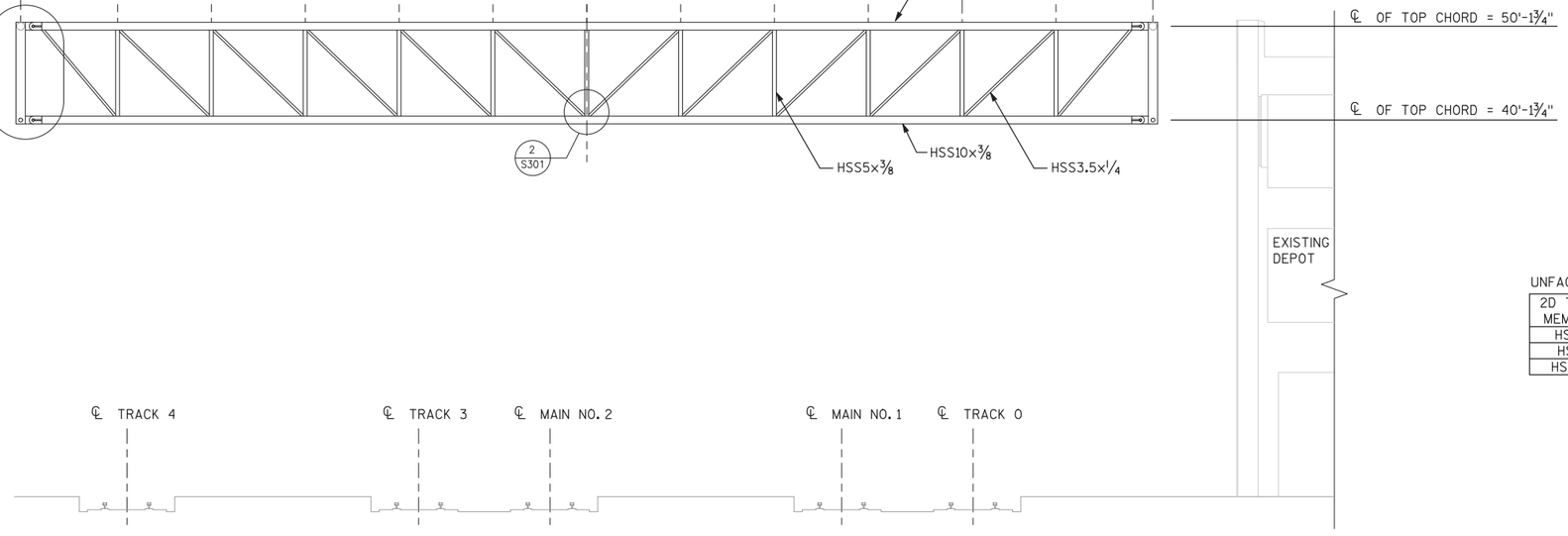
8

8

STATE PROJECT NUMBER

1000-40-70

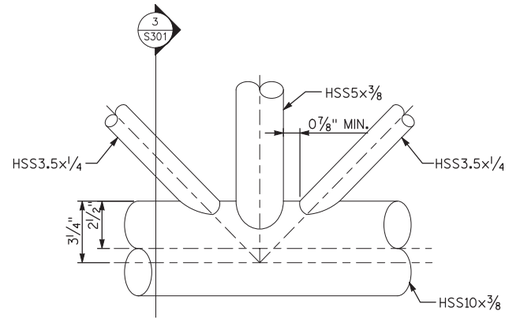




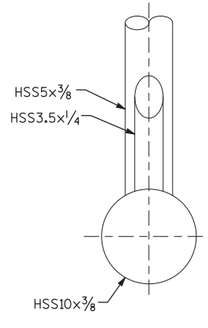
1 S301 2-D END TRUSS ELEVATION
(LOOKING WEST)

UNFACTORED AXIAL FORCES

2D TRUSS MEMBERS	DL (kips)	SNOW (kips)	WIND (kips)
HSS10	29 k	34 k	3 k
HSS5	8 k	10 k	1 k
HSS3.5	13 k	14 k	1 k



2 S301 CONNECTION DETAIL
(TOP CHORD CONNECTION SIMILAR)



3 S301 SECTION THRU CONNECTION

NOTES:
1. ALL TRUSS MEMBERS AND COLUMNS SHALL BE FABRICATED TO AESS STANDARDS. THIS INCLUDES HSS MEMBERS.

NOTE:
ALL DIMENSIONS TO VERIFIED WITH ARCH. DRAWINGS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. AJK

2-D TRUSS ELEVATION

SHEET S-301

213

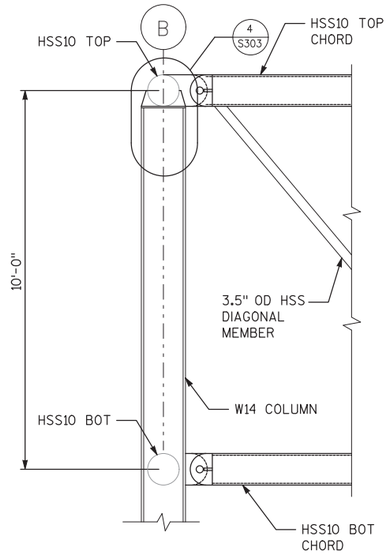
FILE= 20038_S301 TRSS ELEV.DGN
SCALE = 1:16

8

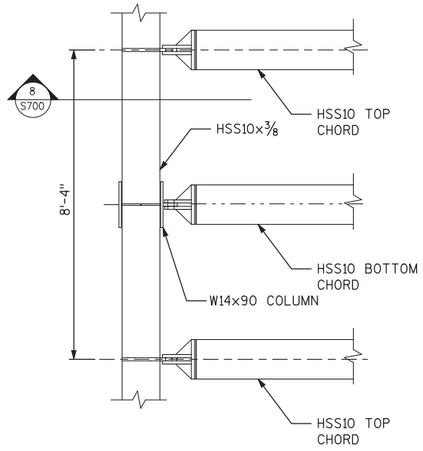
8

STATE PROJECT NUMBER

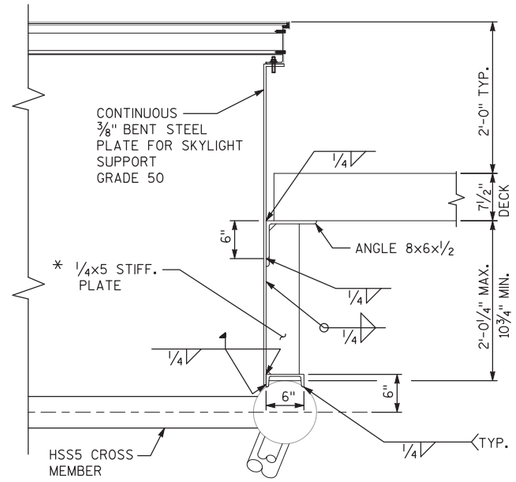
1000-40-70



1 S302 3-D TRUSS CONNECTION ELEVATION



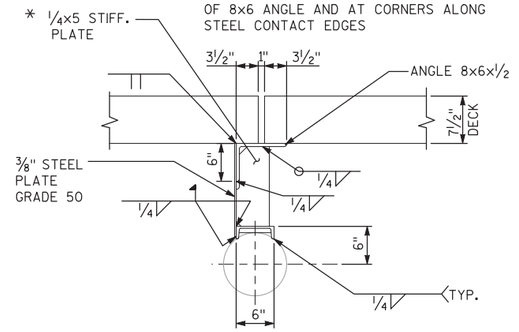
2 S302 3-D TRUSS CONNECTION PLAN



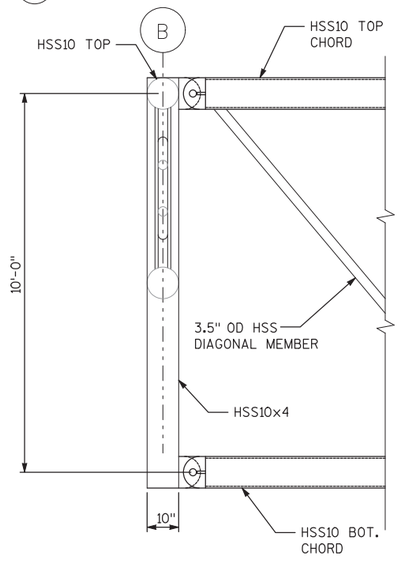
6 S302 3-D TRUSS SKYLIGHT CONNECTION ELEVATION

NOTE:
* STIFFENER PLATE TO BE PLACED AT EACH HSS5 TRUSS CROSS MEMBER AND AT MIDPOINT BETWEEN CROSS MEMBERS (5'-0" MAX. SPACING)

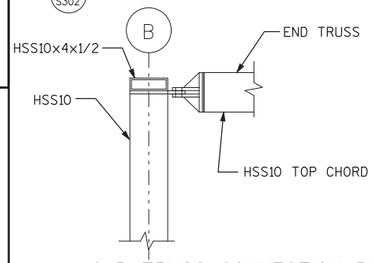
COPE STIFFENER PLATE AROUND LEG OF 8x6 ANGLE AND AT CORNERS ALONG STEEL CONTACT EDGES



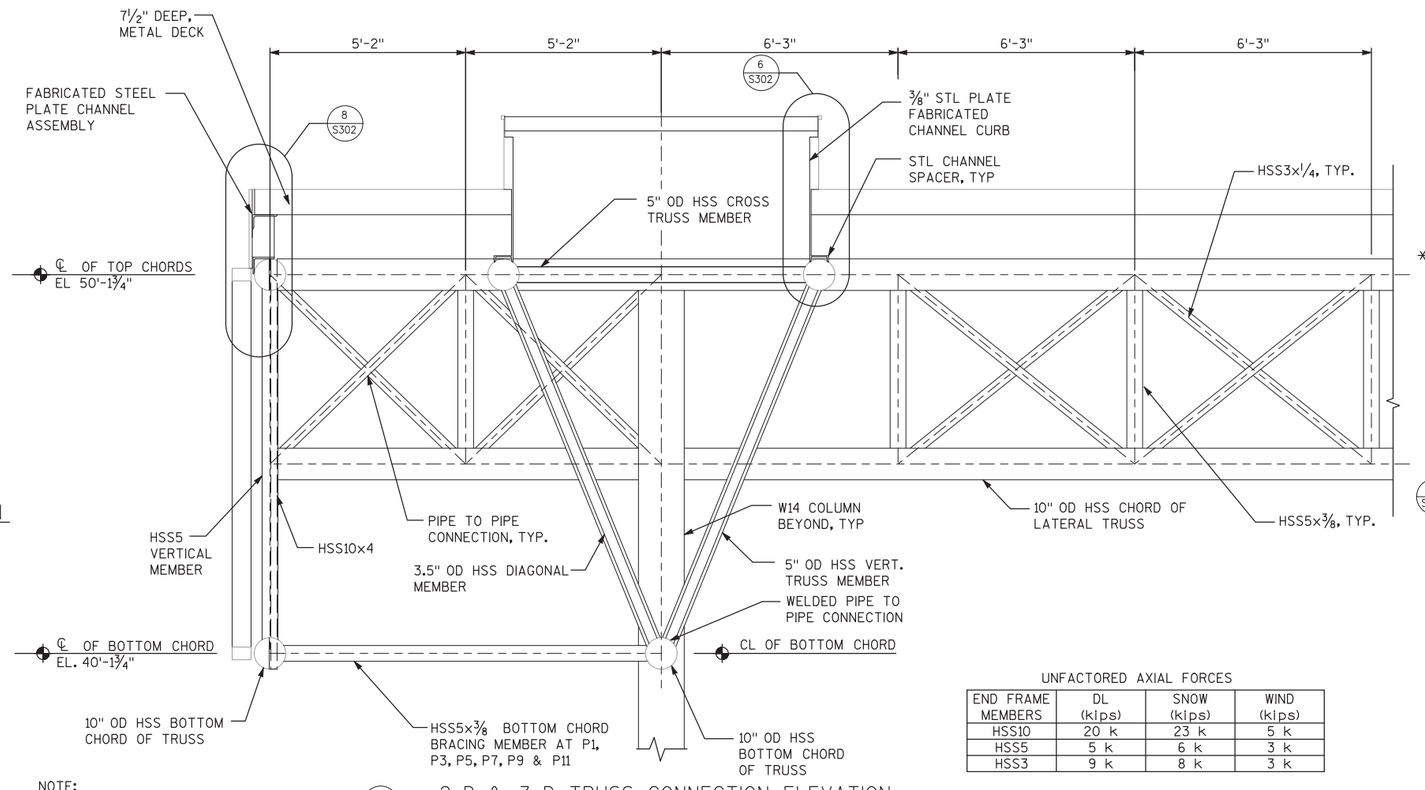
7 S302 3-D TRUSS SKYLIGHT CONNECTION ELEVATION
(TYPICAL AT ENDS OF SKYLIGHT)



3 S302 2-D TRUSS CONNECTION ELEVATION



4 S302 2-D TRUSS CONNECTION PLAN

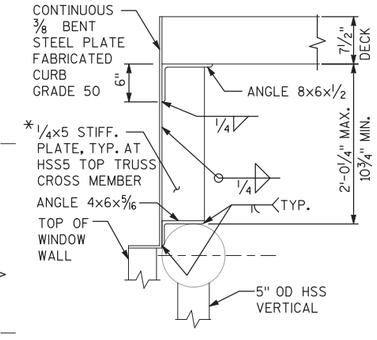


NOTE:
ALL DIMENSIONS TO VERIFIED WITH ARCH. DRAWINGS

5 S302 2-D & 3-D TRUSS CONNECTION ELEVATION

UNFACTORED AXIAL FORCES

END FRAME MEMBERS	DL (kips)	SNOW (kips)	WIND (kips)
HSS10	20 k	23 k	5 k
HSS5	5 k	6 k	3 k
HSS3	9 k	8 k	3 k



8 S302 2-D TRUSS SKYLIGHT CONNECTION ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. AJK

TRUSS DETAILS

SHEET S-302

214

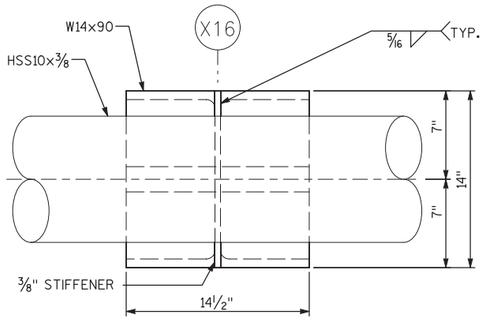
FILE= 20038_S302 TRSS DTLS.DGN
SCALE = 1:16

8

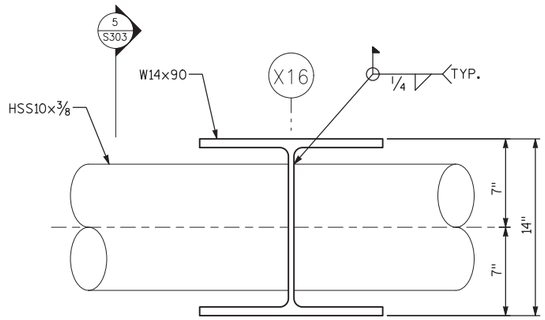
8

STATE PROJECT NUMBER

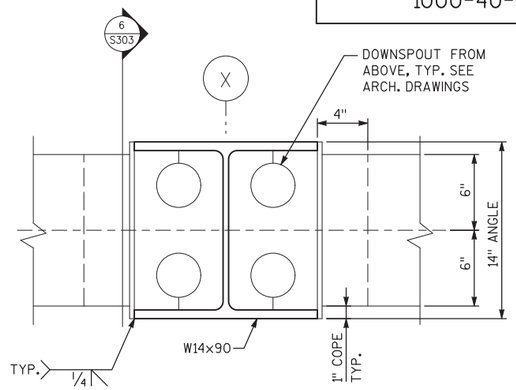
1000-40-70



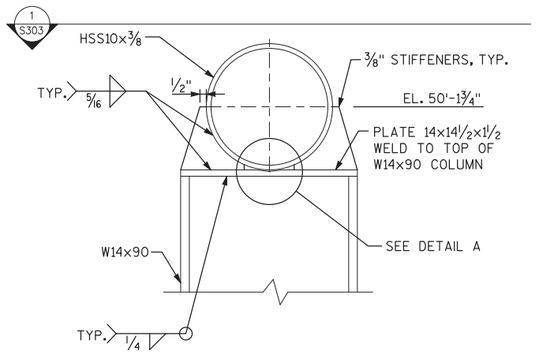
1 S303 W14 COLUMN CONNECTION PLAN



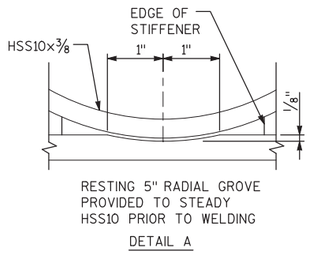
2 S303 W14 COLUMN CONNECTION PLAN

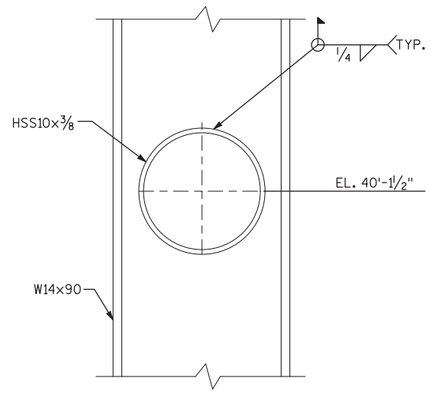


3 S303 W14 COLUMN CONNECTION PLAN

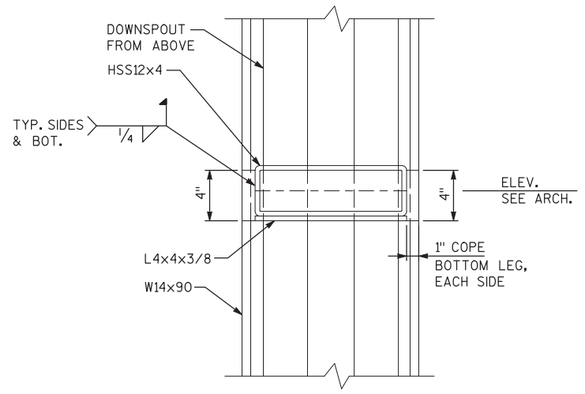


4 S303 W14 COLUMN CONNECTION ELEVATION





5 S303 W14 COLUMN CONNECTION ELEVATION



6 S303 W14 COLUMN CONNECTION ELEVATION

8

8

NOTE:
ALL DIMENSIONS TO BE VERIFIED WITH ARCH. DRAWINGS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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TRUSS CONNECTION DETAILS

SHEET S-303

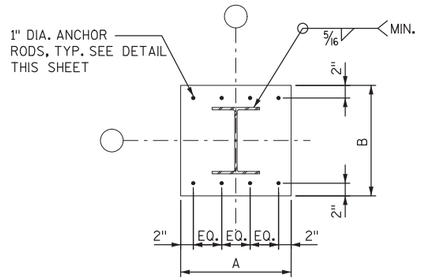
215

FILE= 20038_S303 TRSS DTLS.DGN
SCALE = 1:1

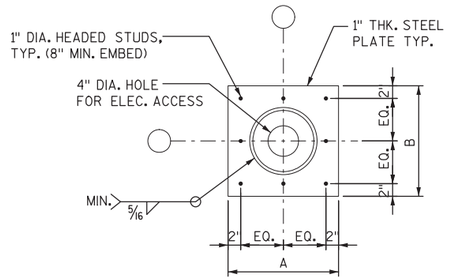
STATE PROJECT NUMBER
1000-40-70

STEEL COLUMN SCHEDULE

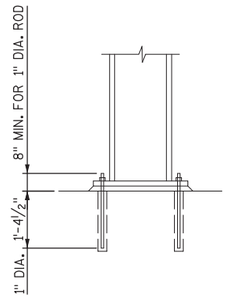
ROOF LEVEL	XA-X1 B-X1 XA-X2 B-X2 XA-X3 B-X3 XA-X4 B-X4 XA-X5 B-X5 XA-X6 B-X6 XA-X7 B-X7 XA-X7 B-X7 XA-X8 B-X8 XA-X9 B-X9 XA-X10 B-X10 XA-X11 B-X11 XA-X12 B-X12 XA-X13 B-X13 XA-X14 B-X14 XA-X15 B-X15 XA-X16 B-X16	XC-X11.8 XD-X11.8
EL 150'-8" MEZZANINE LEVEL	AESS	HSS6.625X0.432
EL 126'-0" PLATFORM LEVEL	W14x90	
EL 100'-0"		
BASE DETAIL	1 /S400	2/S400
BASE PLATE SIZE AxB	1'-6"x2'-0"x1⅜"	1'-0"x1'-0"x1"
BOTTOM OF BASE PLATE	97'-7½"	98'-9"



1 S400 TYPICAL BASE PLATE DETAIL



2 S400 TYPICAL BASE PLATE DETAIL



BASE PLATES AND ROD NOTES:

1. SEE SCHEDULE FOR BASE PLATE.
2. SECURELY FASTEN ANCHOR RODS IN PLACE WITH TEMPLATES OR OTHER MEANS PRIOR TO CONCRETE PLACEMENT. INSERTION INTO CONCRETE AFTER CASTING IS PROHIBITED.
3. ADHESIVE ANCHOR RODS SHALL BE HILTI STANDARD HVA CAPSULE ADHESIVE ANCHORING SYSTEM WITH HAS SUPER RODS DEVELOPING A MINIMUM ALLOWABLE TENSILE CAPACITY OF 30 KIPS OR APPROVED EQUAL.

3 S400 ANCHOR ROD DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

COLUMN SCHEDULE

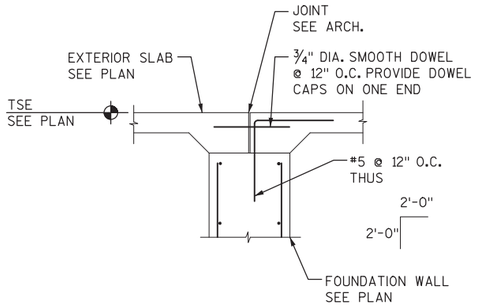
SHEET S-400

216

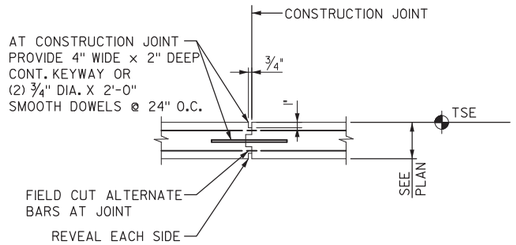
FILE= 20038_S400 COLM SCHD.DGN
SCALE = 1:1

STATE PROJECT NUMBER

1000-40-70

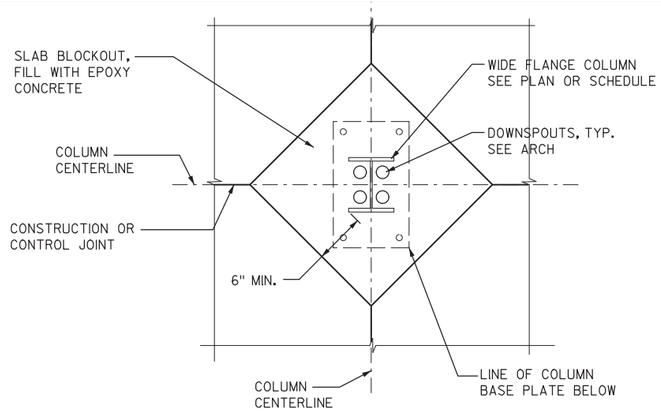


1 S500 TYP FOUNDATION WALL AT DOOR

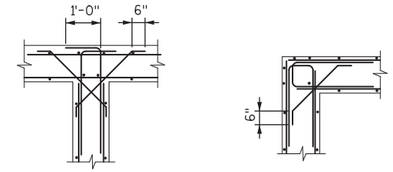


NOTES:
1. SEE GENERAL STRUCTURE NOTES FOR MAX. JOINT SPACES.
2. SMOOTH DOWEL BARS, IF USED, SHALL BE SAW CUT

2 S500 CONTROL JOINT IN WALL



3 S500 TYPICAL BLOCK OUT AT STEEL COL

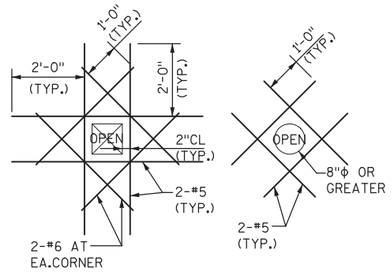


PLAN AT INTERSECTION

PLAN AT CORNER

NOTE:
CORNER AND INTER-SECTION DOWELS TO BE SAME SIZE AS HORIZONTAL WALL BARS.

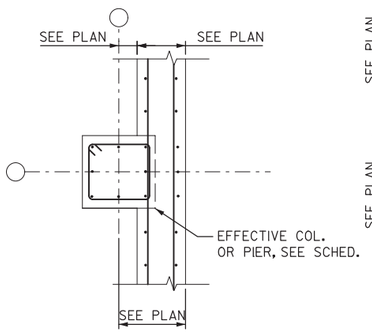
4 S500 CONCRETE WALL INTERSECTIONS



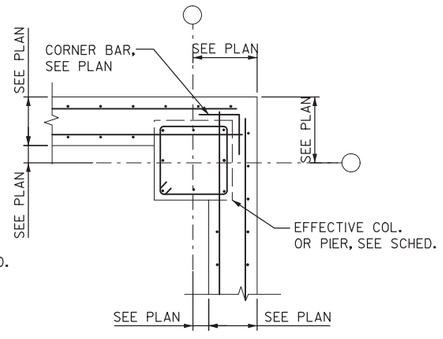
RECTANGULAR OPN'G.

ROUND OPN'G.

5 S500 ADDITIONAL REINFORCING AT OPENINGS



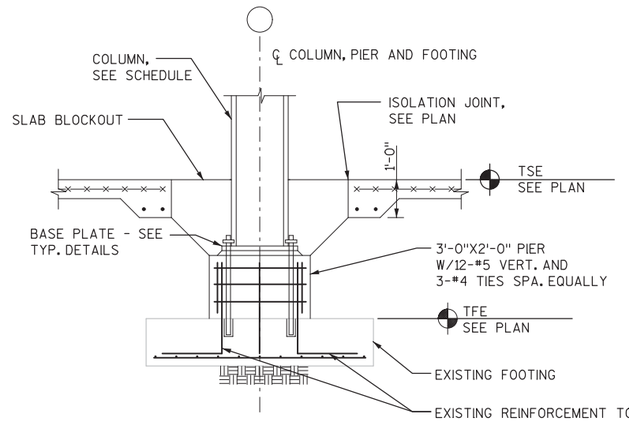
EXTERIOR CONDITION



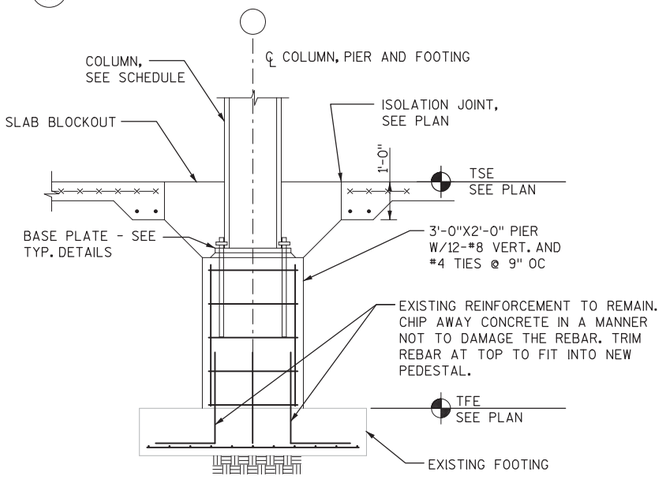
CORNER CONDITION

NOTES:
1. SEE COLUMN/PIER SCHEDULE FOR SIZE AND REINFORCEMENT OF COLUMN/PIERS.
2. CENTER CAGE ON GRID INTERSECTIONS.

6 S500 TYPICAL COLUMN OR PIER/WALL INTERSECTIONS

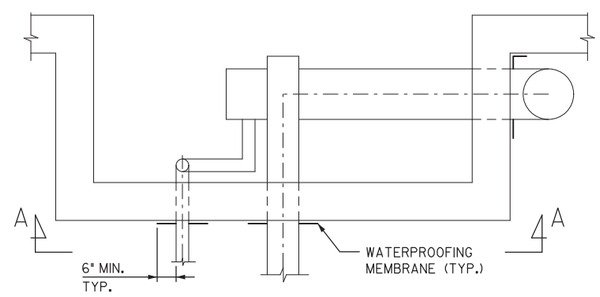


7 S500 TYPICAL PEDESTAL DETAIL

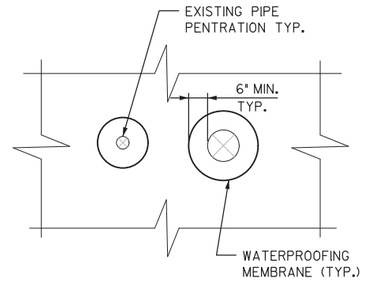


8 S500 TALL PEDESTAL DETAIL

NOTE:
SUMP ROOM SHOWN
(APPLY TO ALL OTHER
EXISTING PENETRATIONS)



9 S500 WATERPROOFING DETAIL



10 S500 SECTION A-A

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION TYPICAL DETAILS

SHEET S-500

217

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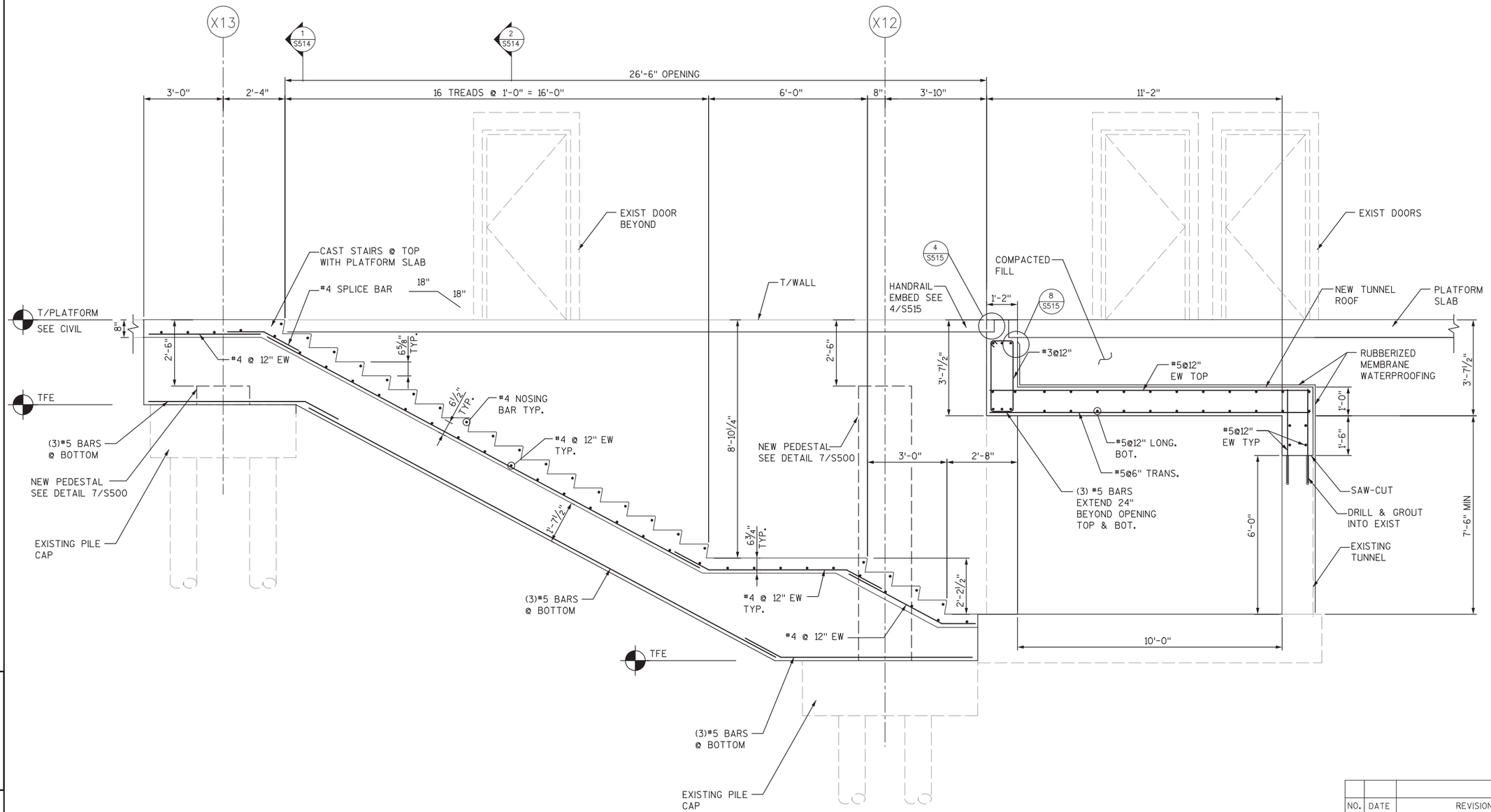
SCALE = 1:1

STATE PROJECT NUMBER

1000-40-70



1 S510 SECTION

(NORTHWEST STAIR - NORTH WALL) PLATFORM 1

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

SHEET S-510

218

FILE= 20038_S510_FNDN DTLS.DGN
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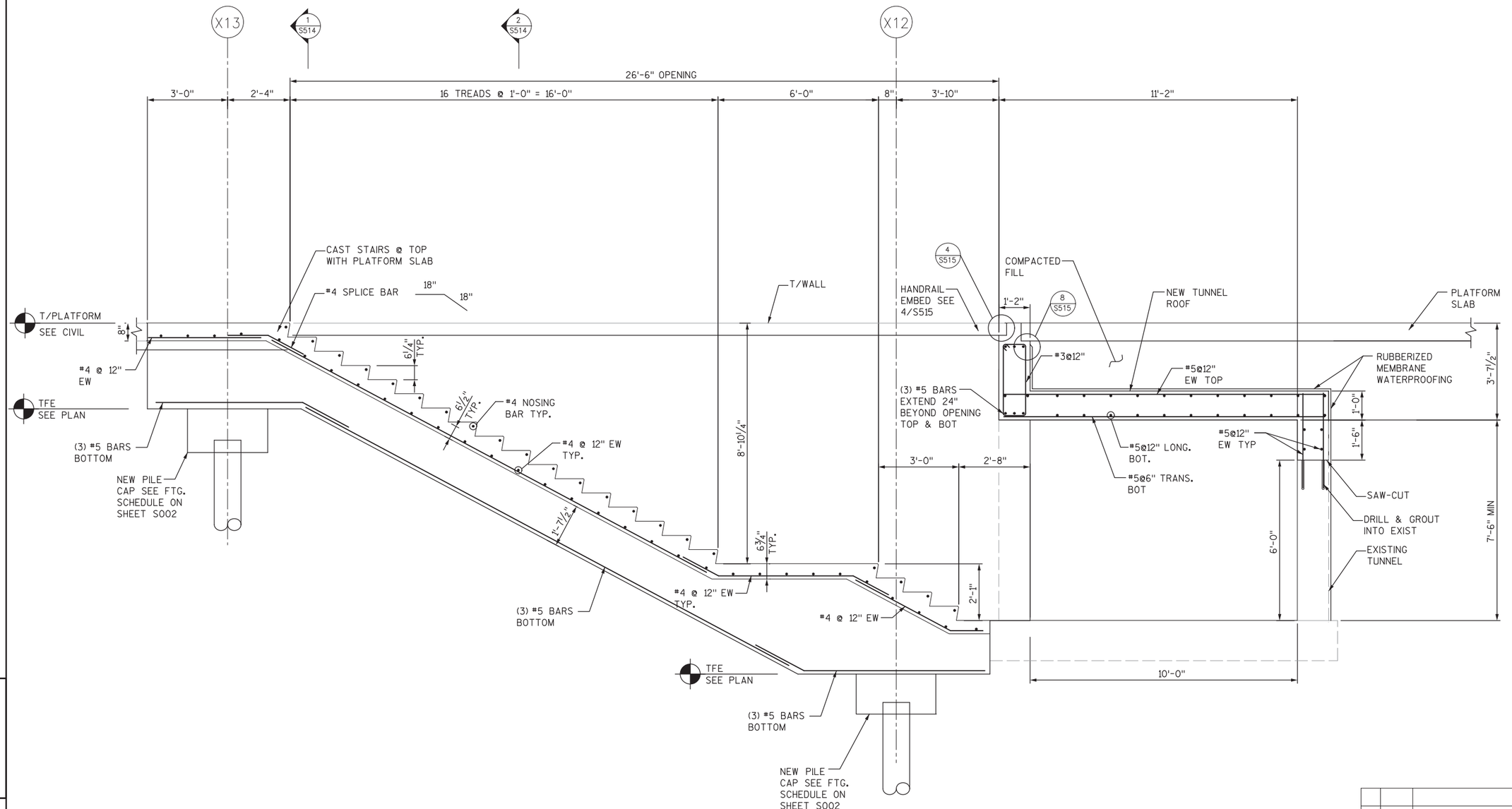
STATE PROJECT NUMBER

1000-40-70



1 S511 SECTION

(NORTHWEST STAIR - SOUTH WALL) PLATFORM 1

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

SHEET S-511

219

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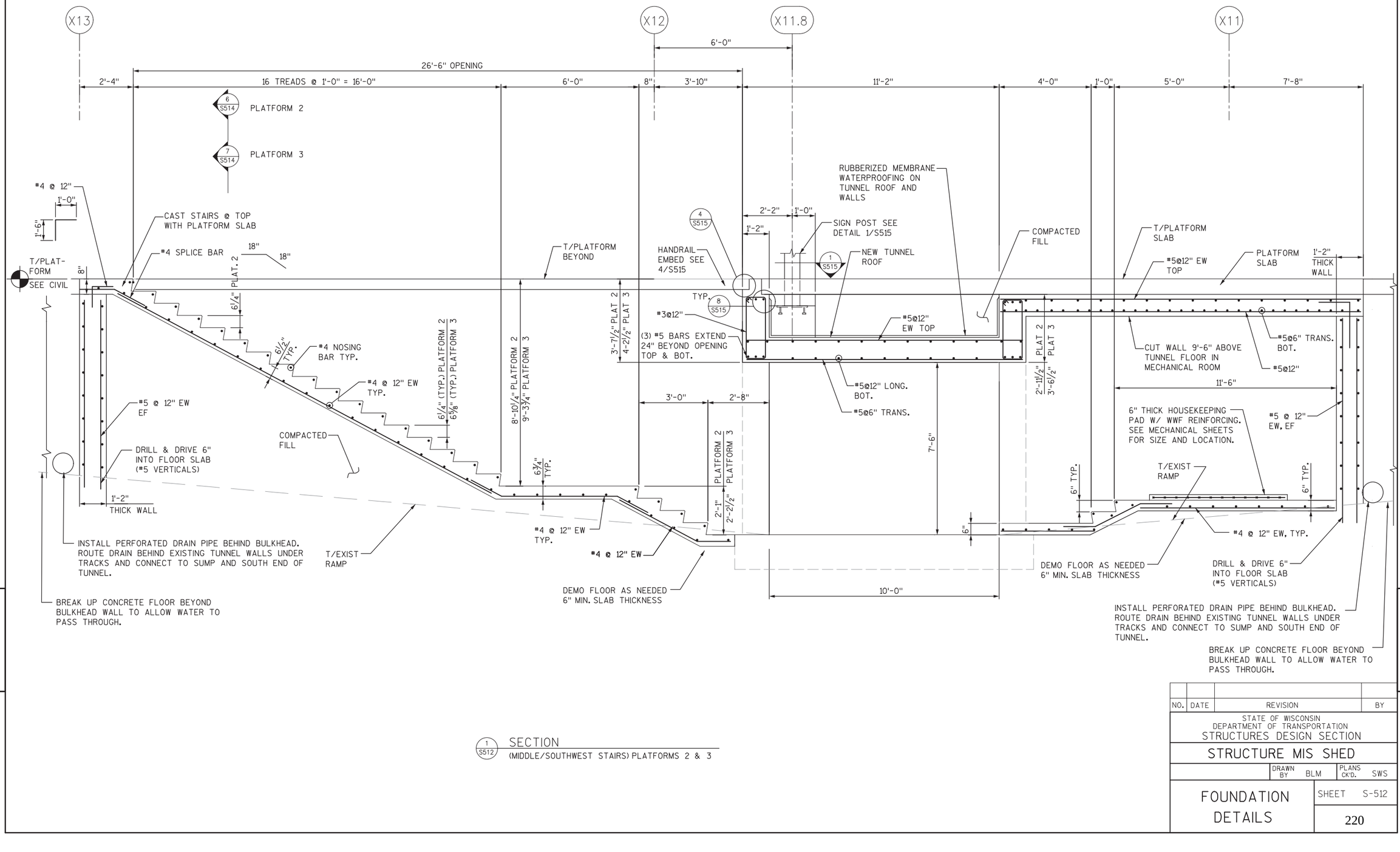
STATE PROJECT NUMBER

1000-40-70



1 S512 SECTION

(MIDDLE/SOUTHWEST STAIRS) PLATFORMS 2 & 3

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

SHEET S-512

220

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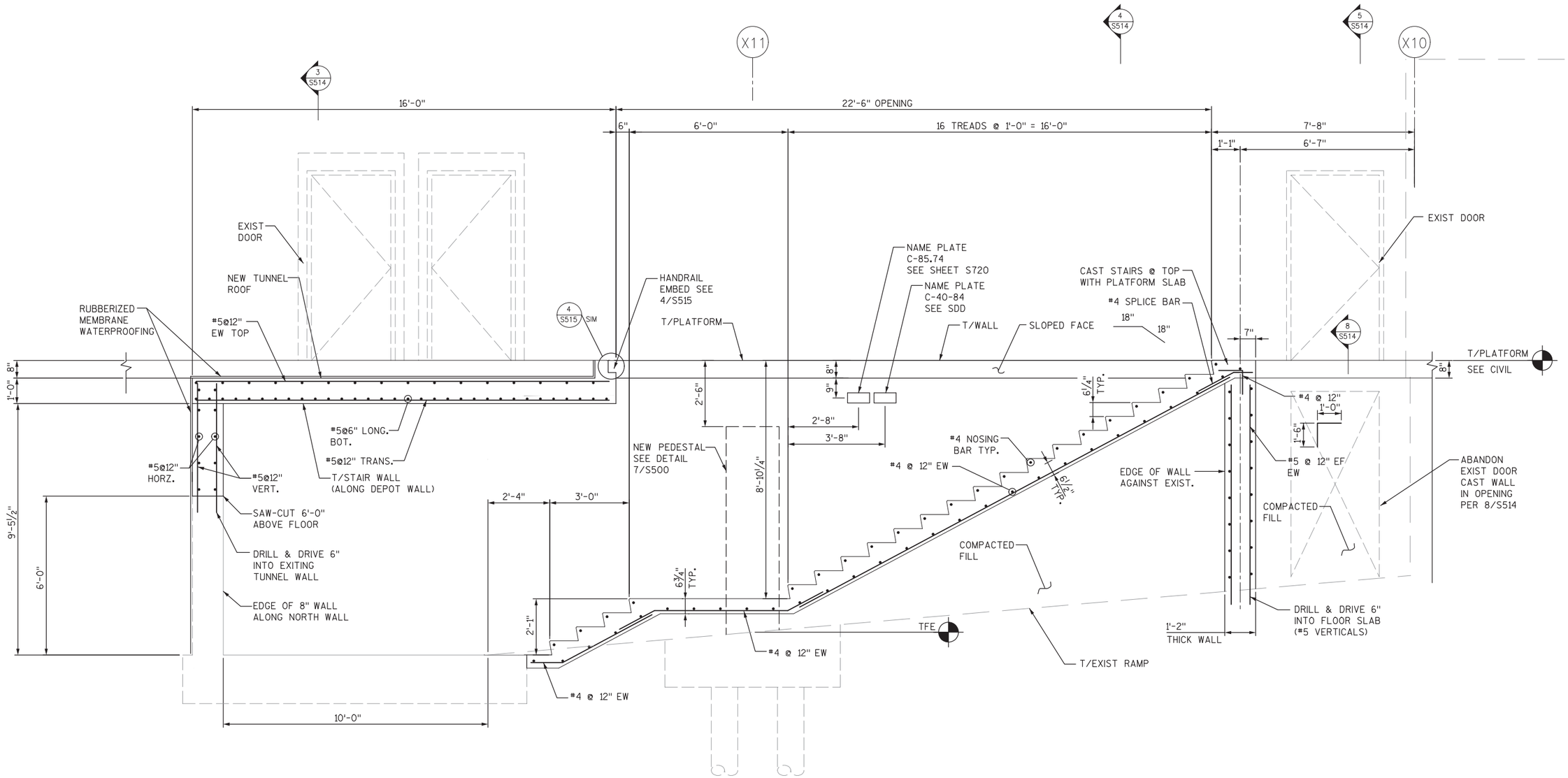
STATE PROJECT NUMBER

1000-40-70



1 S513 SECTION
(NORTHEAST STAIR) PLATFORM 1

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

SHEET S-513

221

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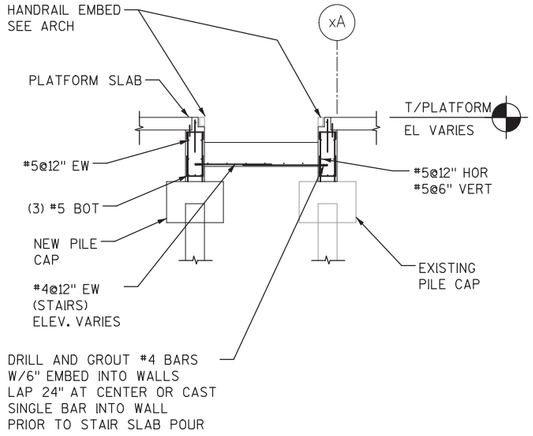
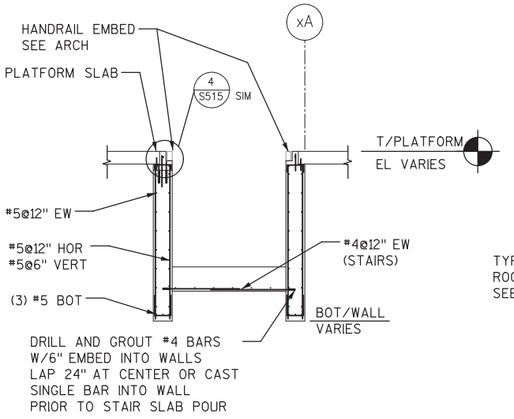
STATE PROJECT NUMBER

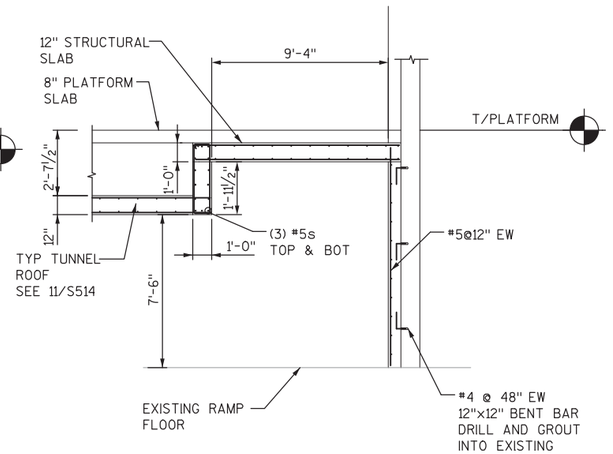
1000-40-70



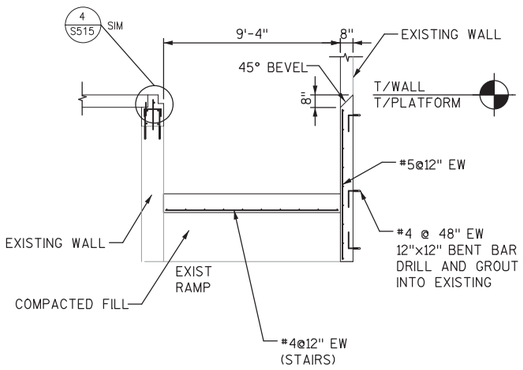
1 S514 SECTION



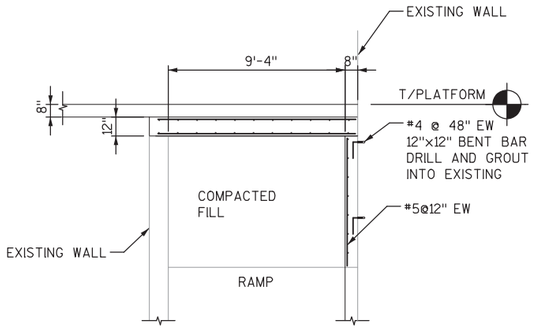
2 S514 SECTION



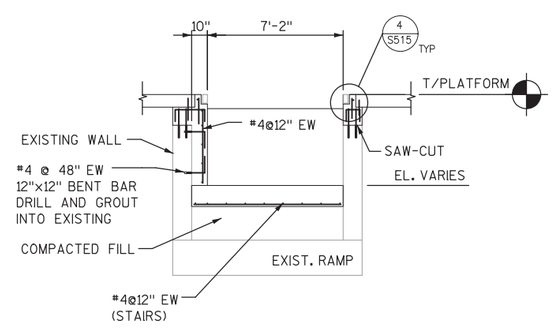
3 S514 SECTION



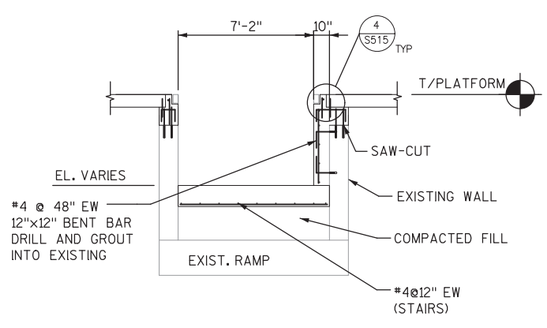
4 S514 SECTION



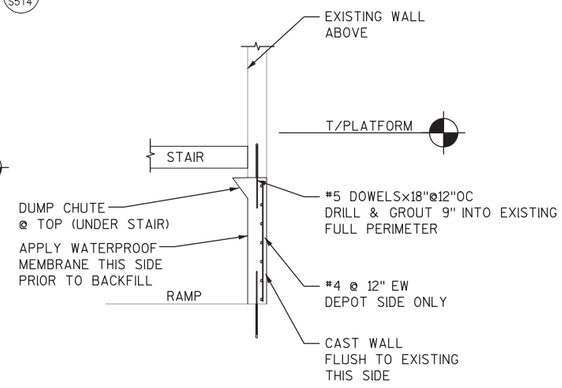
5 S514 SECTION



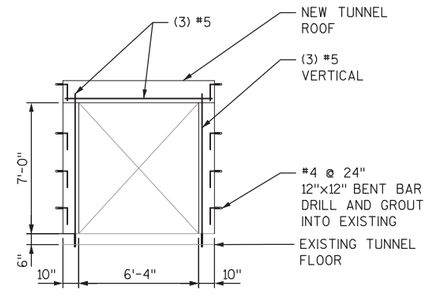
6 S514 SECTION



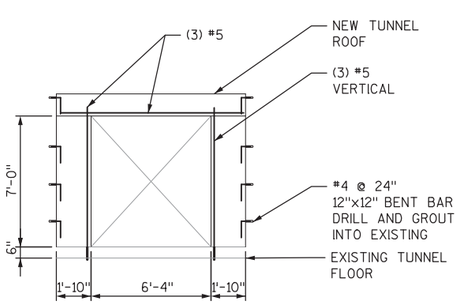
7 S514 SECTION



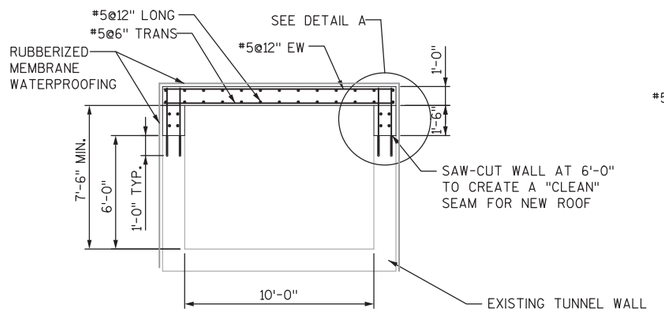
8 S514 SECTION
EXIT DOOR



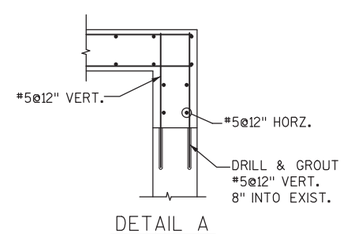
9 S514 SECTION
MECH ROOM DOOR
ROUGH OPENING



10 S514 SECTION
ELEC ROOM DOOR
ROUGH OPENING



11 S514 SECTION
TYP TUNNEL SECTION



DETAIL A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

SHEET S-514

222

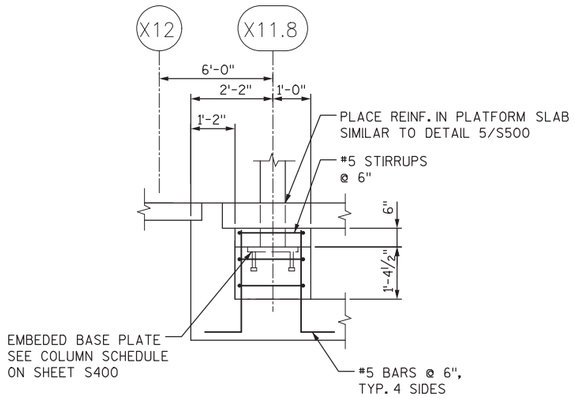
FILE= 20038_S514 FNDN DTLS.DGN
SCALE = 1:8

8

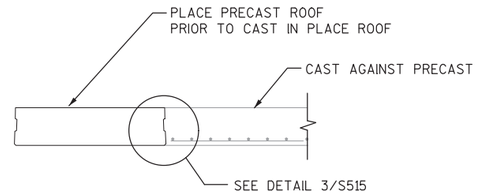
8

STATE PROJECT NUMBER

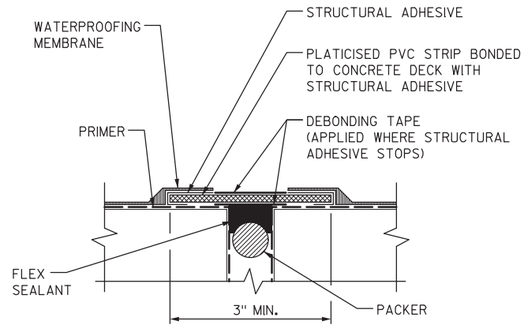
1000-40-70



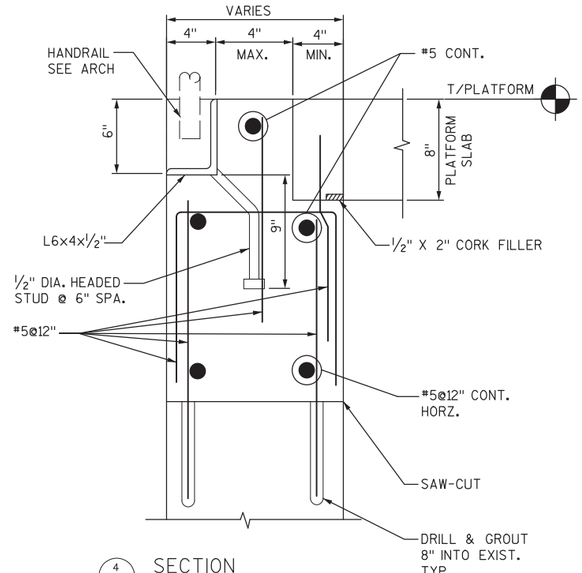
1 S515 SECTION
TUNNEL ROOF @ RAIL



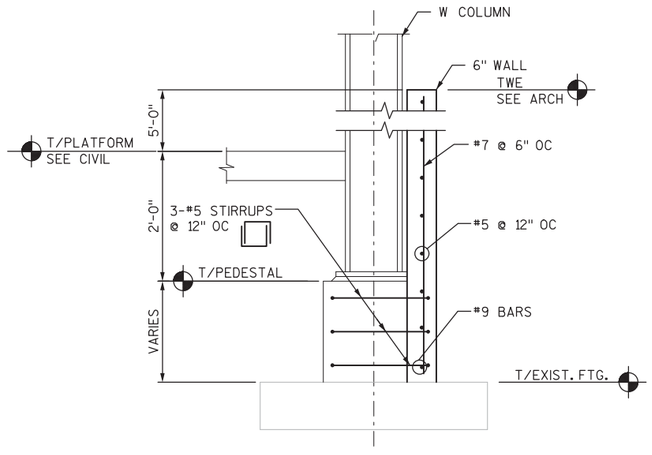
2 S515 SECTION



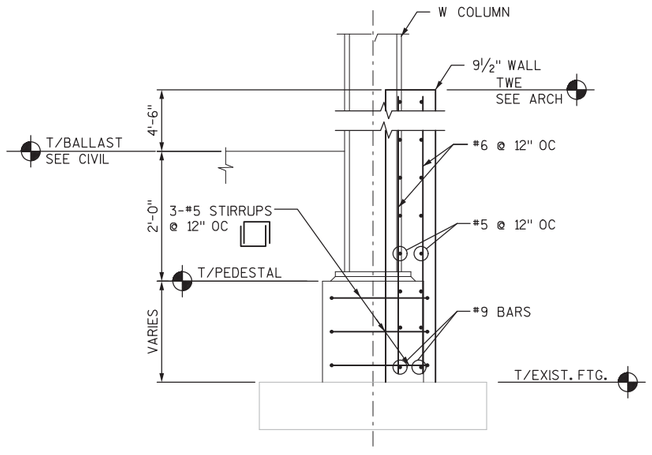
3 S515 SECTION



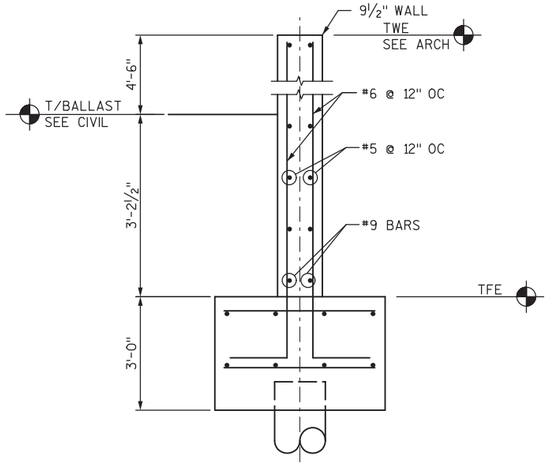
4 S515 SECTION
HANDRAIL SUPPORT



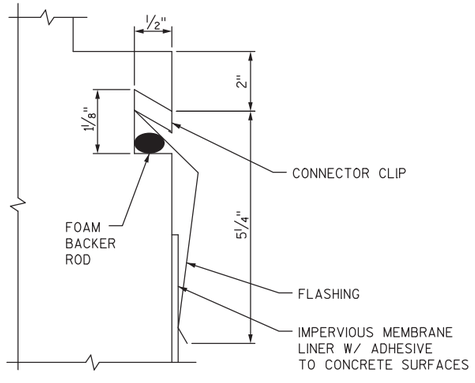
5 S515 SECTION



6 S515 SECTION



7 S515 SECTION



8 S515 SECTION

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

FOUNDATION DETAILS

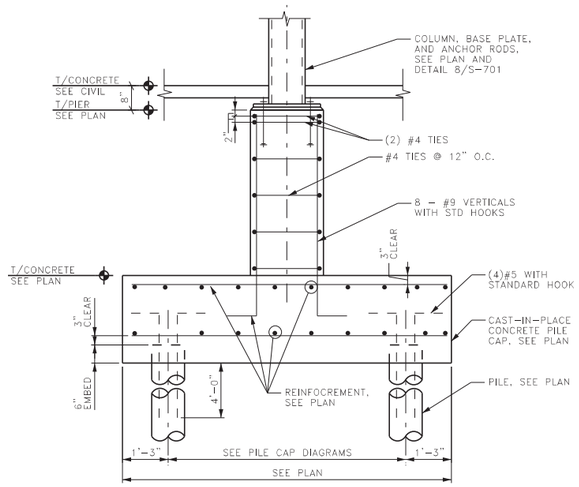
SHEET S-515

223

FILE= 20038_S515 FNDN DTLS.DGN
SCALE = 1:8

STATE PROJECT NUMBER

1000-40-70



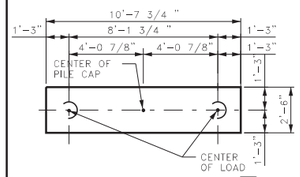
1 S-516 SECTION THRU PILE CAP

PILE CAP SCHEDULE				
MARK	SIZE (LxWxD)	REINFORCING LONG BAR	REINFORCING SHORT BARS	# OF PILES
A	10'-7 3/4"x2'-6"x34"	14-#6 WITH STD HOOKS TOP & BOTTOM	5-#6 WITH STD HOOKS TOP & BOTTOM	2
B	5'-6"x5'-2"x34"	4-#6 WITH STD HOOKS TOP & BOTTOM	3 WAYS	3
C	19'-6"x13'-0"x34"	24-#6 WITH STD HOOKS TOP & BOTTOM	16-#6 WITH STD HOOKS TOP & BOTTOM SEE DET. 2/S-517	4
E	5'-6"x32'-4 3/4"x34"	*30-#6 WITH STD HOOKS TOP & BOTTOM	8-#6 WITH STD HOOKS TOP & BOTTOM	9
F	5'-6"x20'-0"x34"	30-#6 WITH STD HOOKS TOP & BOTTOM	8-#6 WITH STD HOOKS TOP & BOTTOM	6

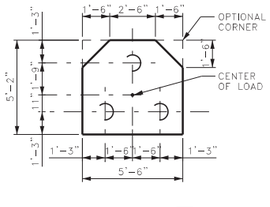
* 3 PILE CONFIGURATION AT WEST END. REINFORCE PER PILE CAP B

NOTES:

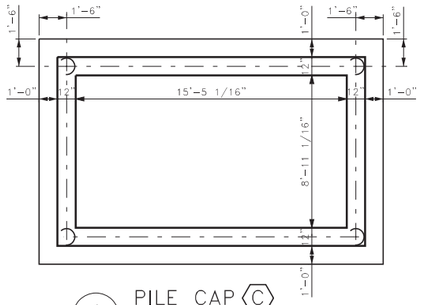
- ALL PILES SHALL BE 10 3/4" - 0.188 THICK WALL FILLED WITH CONCRETE.
- FOR PURPOSES OF BIDDING, ASSUME THE LENGTH OF EACH PILE TO BE 80 FEET.
- SEE DETAIL 5/S-516 FOR REINFORCEMENT AROUND PILES.



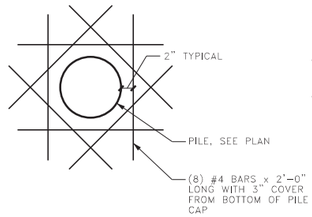
2 S-516 PILE CAP (A)



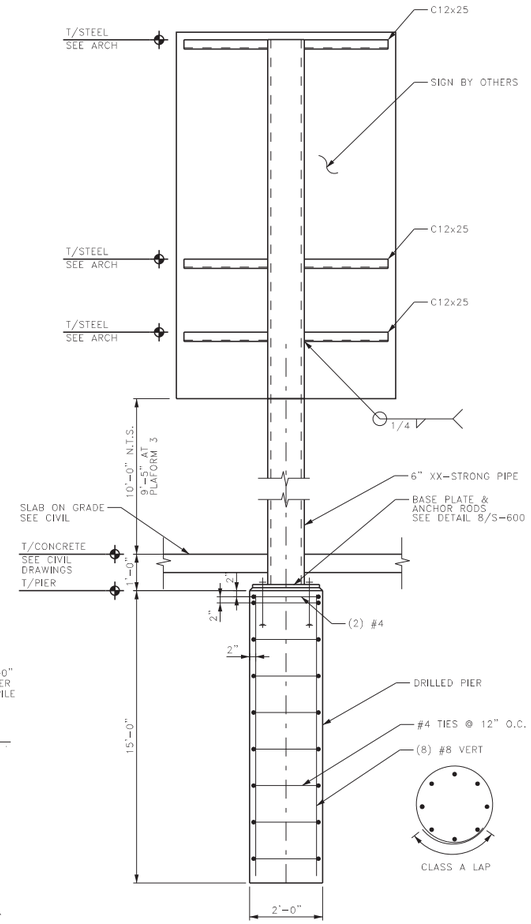
3 S-516 PILE CAP (B)



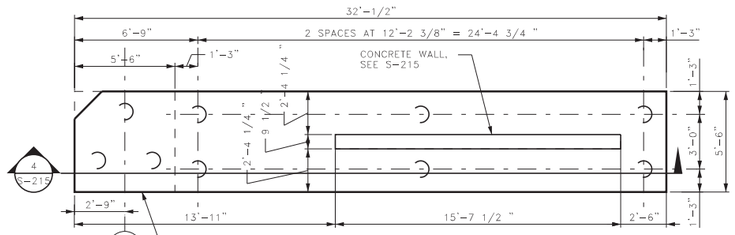
4 S-516 PILE CAP (C)



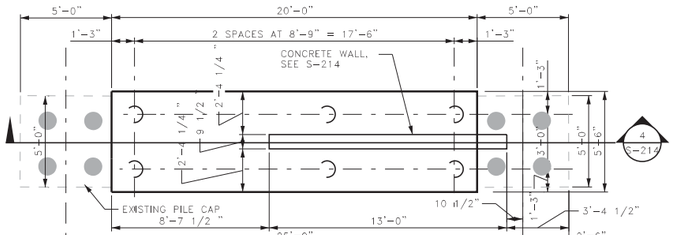
5 S-516 SECTION
1"=1'-0"



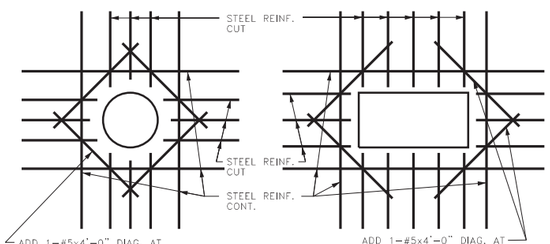
NOTE: CONNECTION OF SIGN TO STEEL BY OTHERS.
- (4) 1" DIAMETER FLEXIBLE METAL CONDUIT FOR SIGN TO BE INSTALLED BY STEEL FABRICATOR. COORDINATE WITH ELECTRICAL CONTRACTOR.



6 S-516 PILE CAP (E)

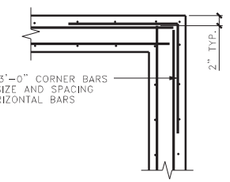


7 S-516 PILE CAP (F)

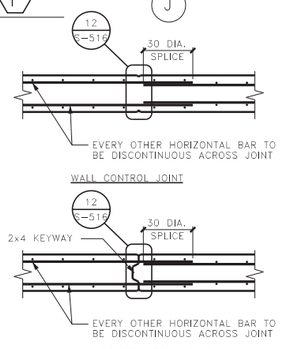


NOTES:
1. TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS UNLESS NOTED OTHERWISE ON PLAN.
2. DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS.

9 S-516 DETAIL

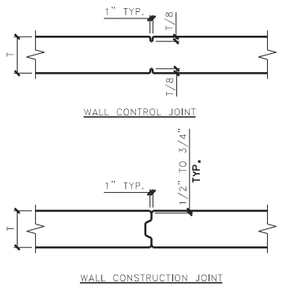


10 S-516 DETAIL



11 S-516 DETAIL

8 S-516 SECTION THRU PILE CAP



NOTE: REINFORCING NOT SHOWN FOR CLARITY

12 S-516 DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

FOUNDATION DETAILS

SHEET S-516

224

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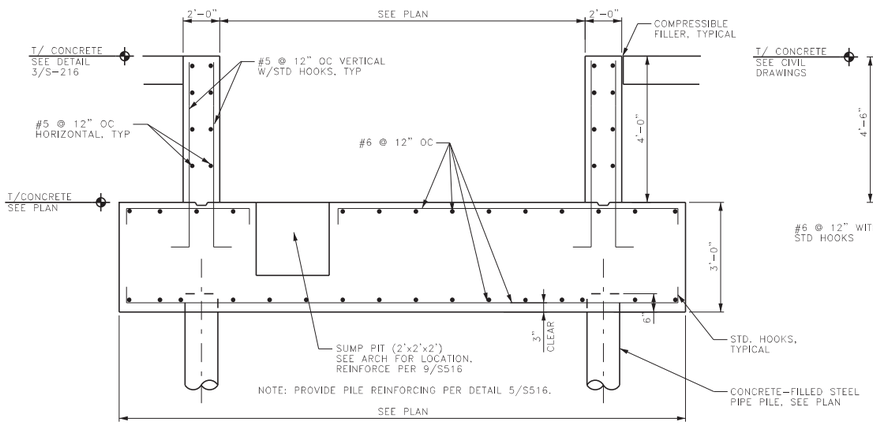
8

L:\JOBS2010\20100072-01\CAD\STRUCTURAL\DGN\00\S_00_0072_S516.DGN 5/31/2013 9:38:59 AM

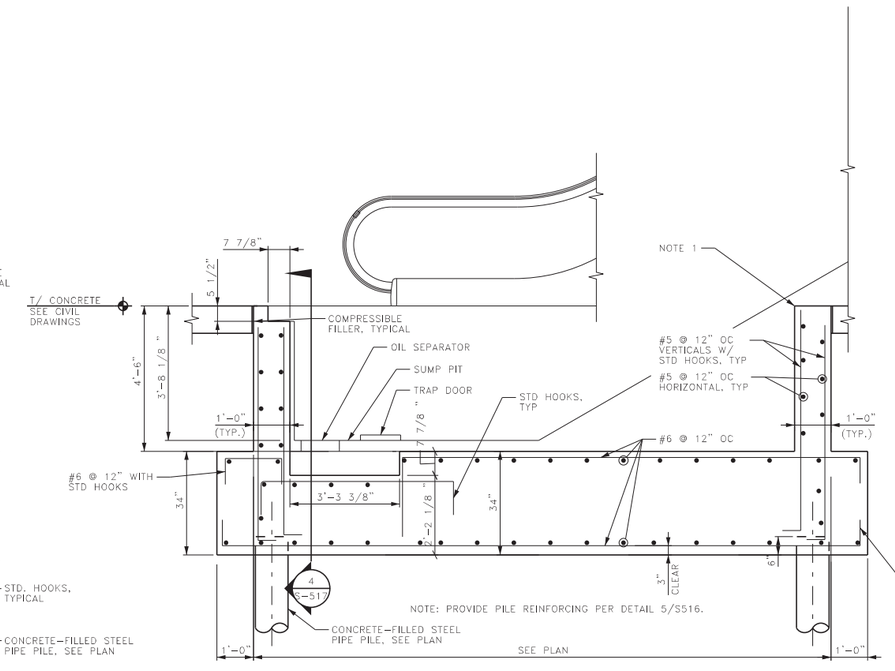
FILE= SCALE =

STATE PROJECT NUMBER
1000-40-70



CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER

1 S-517 ELEVATOR FOUNDATION

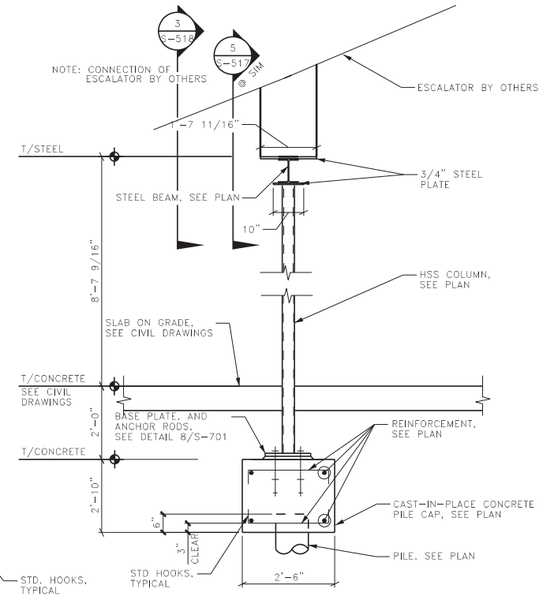


CONFIRM FINAL DIMENSIONS WITH ESCALATOR SUPPLIER

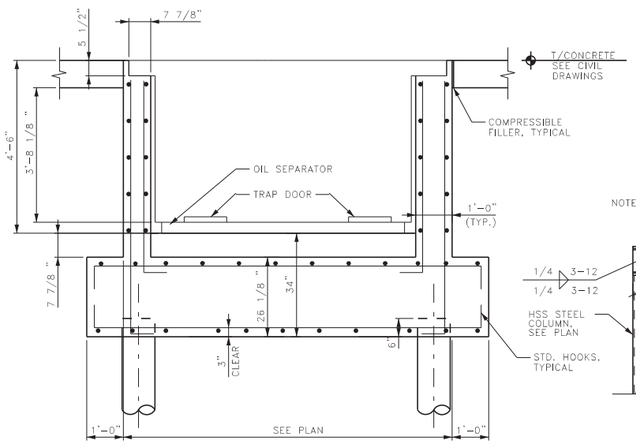
2 S-517 ESCALATOR FOUNDATION

SEE DETAILS 3-6/S714 FOR GRATING INFORMATION

NOTE 1:
NOTCH FOUNDATION WALL AS REQUIRED - SEE ARCHITECTURAL



3 S-517 ESCALATOR FOUNDATION

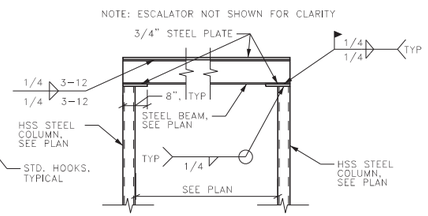


NOTE: PROVIDE PILE REINFORCING PER DETAIL 5/S516.

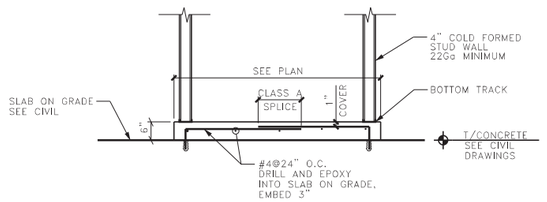
CONFIRM FINAL DIMENSIONS WITH ESCALATOR SUPPLIER

4 S-517 SECTION THRU FOUNDATION

SEE DETAILS 3-6/S714 FOR GRATING INFORMATION



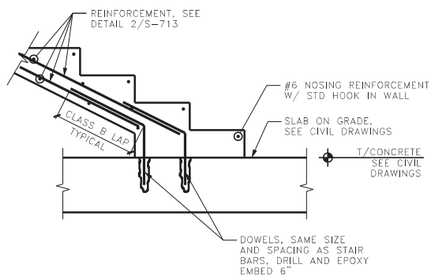
5 S-517 SECTION



NOTES: LOCATION OF WALLS PER ARCHITECTURAL DRAWINGS.

COLD FORMED DESIGN INCLUDING CONNECTIONS TO BE COMPLETED BY SPECIALTY ENGINEER.

6 S-517 SECTION



7 S-517 SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

FOUNDATION DETAILS

SHEET S-517

225

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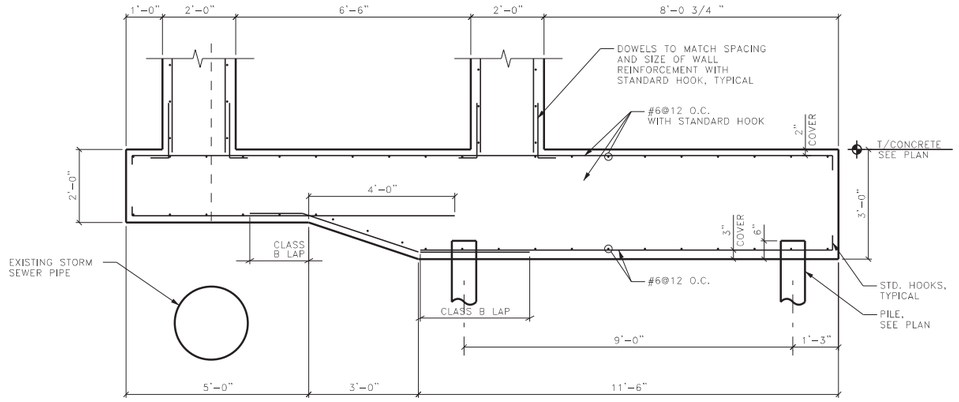
8

L:±JOBS2010±20100072-01±CAD±STRUCTURAL±DGN±00±S_00_0072_S517.DGN 5/30/2013 3:19:31 PM

FILE=
SCALE =

STATE PROJECT NUMBER

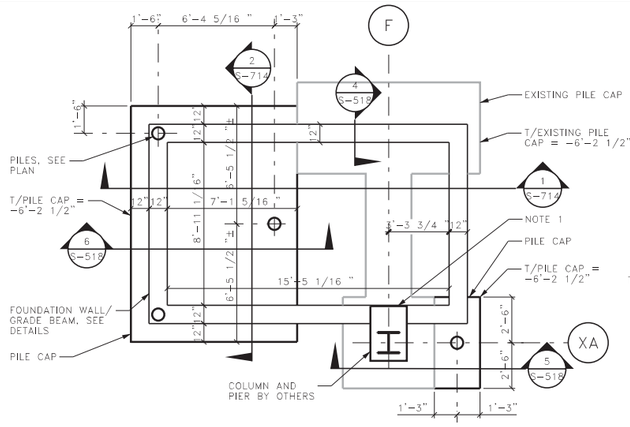
1000-40-70



NOTE: PROVIDE PILE REINFORCING PER DETAIL 5/S-516.

1 S-518 DETAIL 1/2"=1'-0"

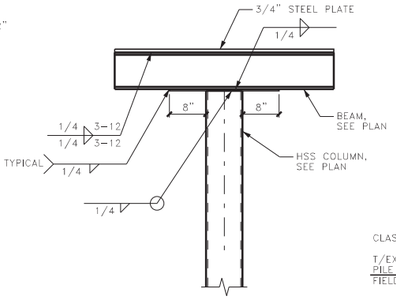
CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER



2 S-518 PLAN 1/4"=1'-0"

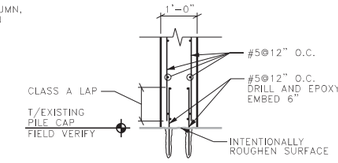
CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER

NOTE 1: WALL REINFORCING TO GO THROUGH PIER. T/PIER = 98'-0" WALL TO BE BUILT SIMILAR TO REST OF WALL

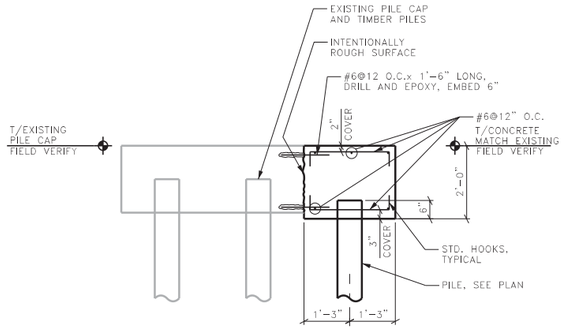


NOTE: ESCALATOR NOT SHOWN FOR CLARITY

3 S-518 SECTION 3/4"=1'-0"

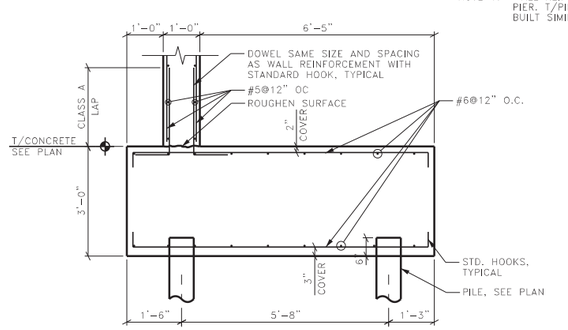


4 S-518 DETAIL 1/2"=1'-0"



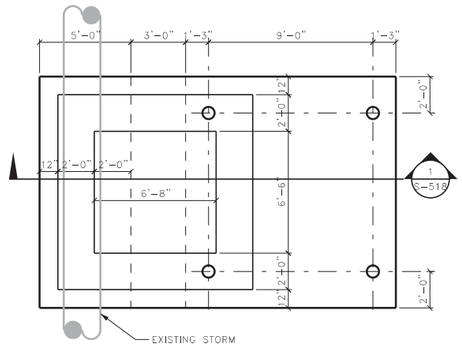
NOTE: PROVIDE PILE REINFORCING PER DETAIL 5/S-516.

5 S-518 DETAIL 1/2"=1'-0"



NOTE: PROVIDE PILE REINFORCING PER DETAIL 5/S-516.

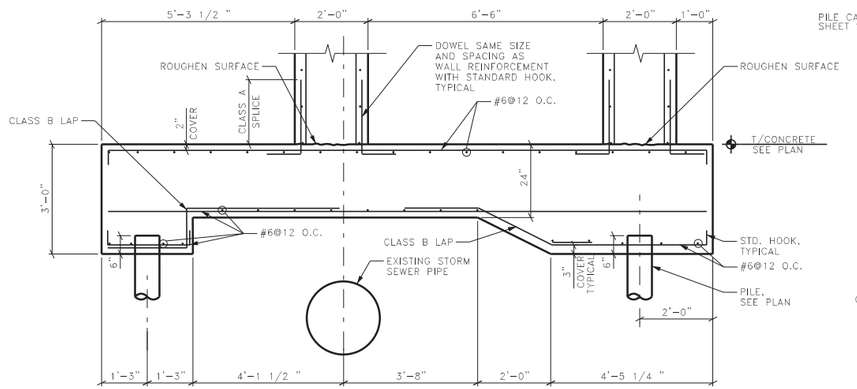
6 S-518 DETAIL 1/2"=1'-0"



NOTE: HSS COLUMNS NOT SHOWN FOR CLARITY

7 S-518 PLAN 1/4"=1'-0"

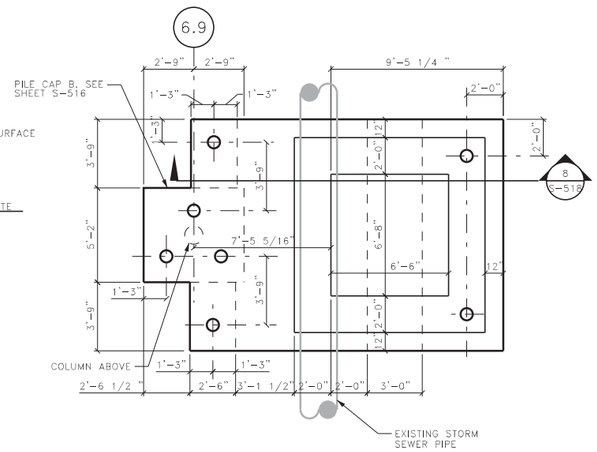
CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER



NOTE: PROVIDE PILE REINFORCING PER DETAIL 5/S-516.

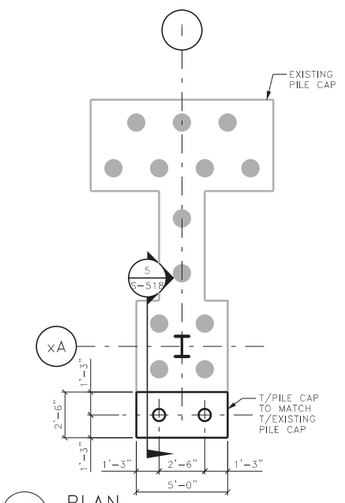
8 S-518 DETAIL 1/2"=1'-0"

CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER



9 S-518 PLAN 1/4"=1'-0"

CONFIRM FINAL DIMENSIONS WITH ELEVATOR SUPPLIER



10 S-518 PLAN 1/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

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FOUNDATION DETAILS

SHEET S-518

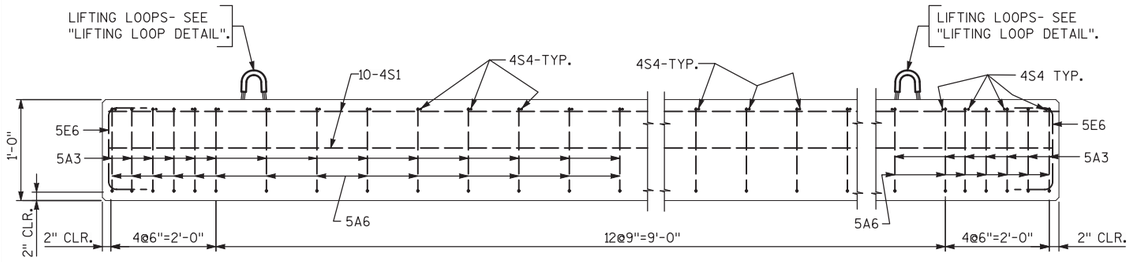
226

FILE= SCALE =

L:±JOBS2010±20100072-01±CAD±STRUCTURAL±DGN±00±S_00_0072_S518.DGN 5/30/2013 3:19:58 PM

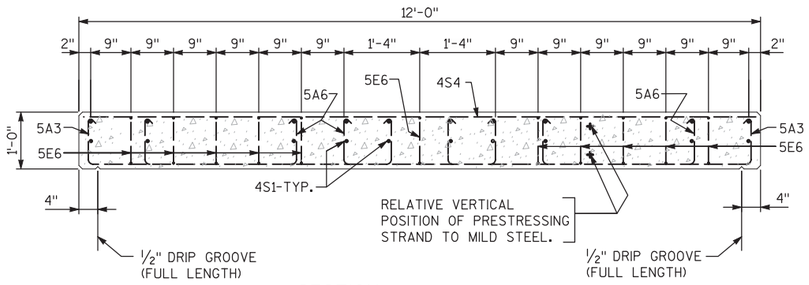
STATE PROJECT NUMBER

1000-40-70



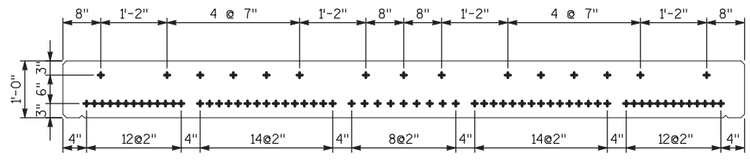
1 S600 SECTION

PRESTRESSING STRANDS ARE NOT SHOWN FOR CLARITY

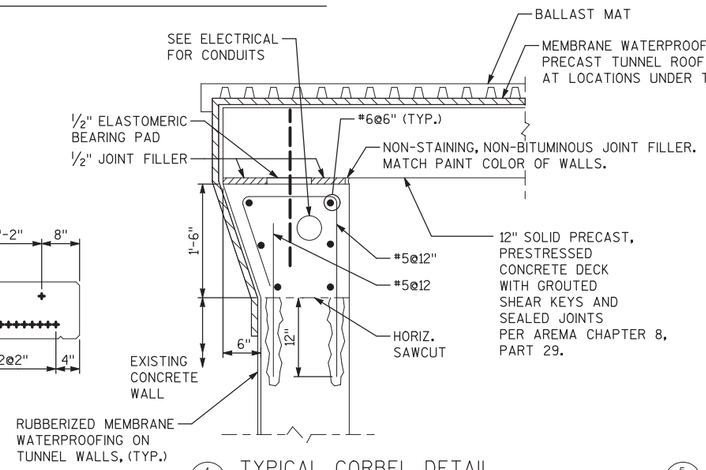


NOTE:
ALL STEEL IS TO HAVE AT LEAST 1½" COVER UNLESS OTHERWISE NOTED.

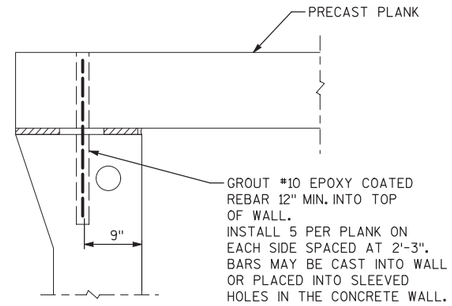
2 S600 SECTION



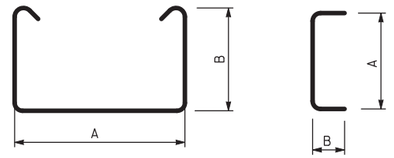
3 S600 SECTION (80 STRANDS)



4 S600 TYPICAL CORBEL DETAIL



5 S600 TYPICAL PRECAST PLANK CONNECTION

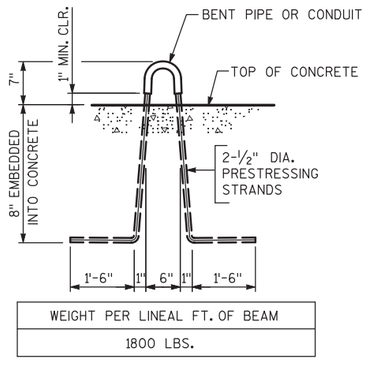


BAR A BAR E

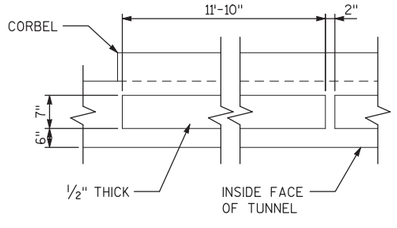
LIST OF REINFORCING BARS					
MARK	SIZE	TYPE	A	B	LENGTH
5A3	5	A	5'-3"	8"	7'-11"
5A6	5	A	2'-8"	8"	5'-4"
5E6	5	E	7½"	9"	2'-2"
4S1	4	STR.	-	-	12'-11"
4S4	4	STR.	-	-	11'-8"

6 S600 REINFORCING STEEL DETAILS

(ALL DIMENSIONS SHOWN ARE OUT TO OUT OF BARS)

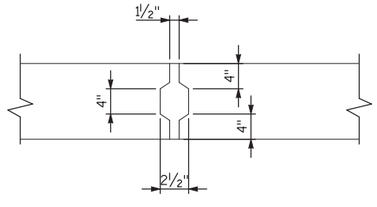


7 S600 LIFTING LOOP DETAIL



8 S600 ELASTOMERIC BEARINGS

NOTES:
1. USE 60 DUROMETER NATURAL RUBBER.
2. FABRICATE IN ACCORDANCE WITH CONCRETE AREMA STANDARDS.
3. 4-TOTAL BEARING PADS REQUIRED.



9 S600 GROUT SHEAR KEY

NOTES:
1. USE NON-SHRINK EPOXY GROUT.
2. GROUT TO MEET REQUIREMENTS IN CURRENT AREMA STANDARDS.
3. SEE DETAIL 3/S515 FOR WATERPROOFING MEMBRANE.

NOTES

DEAD LOAD: (ASSUMED - LBS.PER LIN. FT. OF TRACK)

TRACK	350
BALLAST	1560
WATERPROOFING	120

LIVE LOAD: COOPER'S E80 PLUS 20% FOR POSSIBLE OFFSET TRACK LOCATION

IMPACT: 60 %

SPECIAL NOTES TO MANUFACTURER:

IF LIFTED WITH SLINGS INSTEAD OF LIFTING LOOPS, SLINGS MUST NOT BE PLACED MORE THAN 3'-0" FROM ENDS OF BEAMS.

SHOP NOTES: FABRICATION AND ARC WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CHAPTER 15, PART 3 OF THE CURRENT AREMA MANUAL FOR RAILWAY ENGINEERING. OPEN HOLES: NONE. SHOP PAINT: NONE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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PRECAST DETAILS

SHEET S-600

227

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FILE= 20038_S600 PRCAST PLANS.DGN
SCALE = 1:4

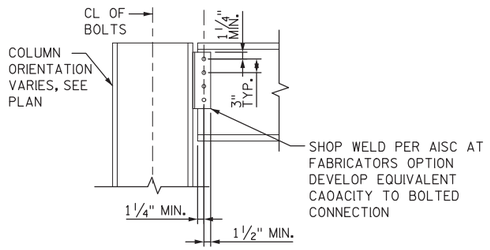
STATE PROJECT NUMBER

1000-40-70

NOTES:

1. CONTRACTORS SHALL MAKE NECESSARY PROVISIONS TO COMPLY WITH OSHA REQUIREMENTS.
2. ALL BEAMS FRAMING TO COLUMNS SHALL BE DOUBLE ANGLE CONNECTIONS. UNO. REFER TO 2/S700.
3. BEAM TO BEAM CONNECTIONS SHALL BE SINGLE PLATE CONNECTIONS UNO. AT LOCATIONS NOTED THUS ON PLANS USE DOUBLE ANGLE BEAM TO BEAM CONNECTION PER 3/S701.
4. REFER TO 4/S700 FOR TYPICAL TWO SIDED SINGLE PLATE BEAM TO BEAM CONNECTIONS.
5. REFER TO 5/S700 FOR TYPICAL ONE SIDED SINGLE PLATE BEAM TO BEAM CONNECTIONS.
6. REFER TO 6/S700 FOR TYPICAL BEAM TO HSS COLUMN CONNECTIONS.
7. REFER TO 7/S700 FOR EXTENDED SINGLE PLATE BEAM TO COLUMN CONNECTIONS AT LOCATIONS NOTED ON PLANS.
8. WHEN BEAM END REACTIONS ARE SHOWN ON THE FRAMING PLANS. THE FABRICATOR SHALL DESIGN THE CONNECTION FOR THE REACTIONS SHOWN. ALL LOADS SHOWN ARE SERVICE LOADS.

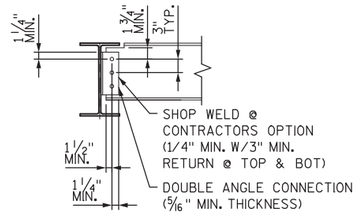
1/S700 CONNECTION DESIGN CRITERIA



CONNECTION SCHEDULE	
BEAM SIZE	ROWS OF ROWS OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14, W16	3
W18 W21x44, 50, 57	4
W21x62 & UP W24x55, 62, 68	5
W24x76 & UP W27	6
W30, W33, W36	7

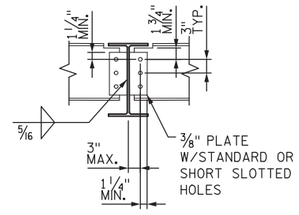
NOTES:
1. FOLLOW AISC CRITERIA FOR FRAMED BEAM CONNECTIONS.

2/S700 DBL. ANGLE BEAM TO COL CONN DETAIL



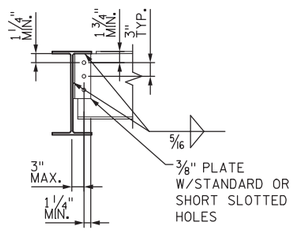
CONNECTION SCHEDULE	
BEAM SIZE	NUMBER OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14, W16	3
W18, W21x44, 50, 57	4
W21x62 & UP W24x55, 62, 68	5
W24x76 & UP W27	6
W30, W33	7
W36	8

3/S700 DBL. ANGLE BEAM TO BEAM CONN DETAIL



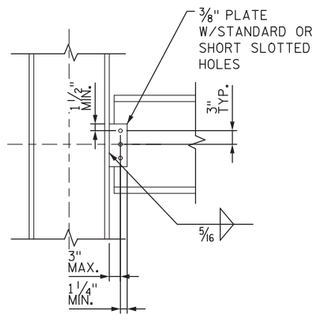
CONNECTION SCHEDULE	
BEAM SIZE	NUMBER OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30, W33, W36	9

4/S700 TWO SIDED SINGLE PL BEAM CONN DETAIL



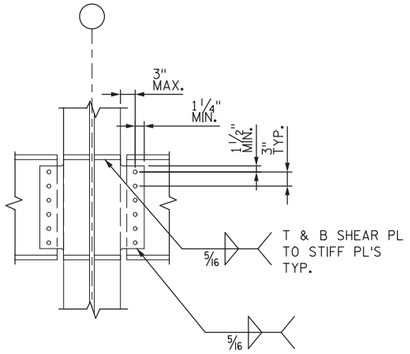
CONNECTION SCHEDULE	
BEAM SIZE	NUMBER OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9

5/S700 ONE SIDED SINGLE PL CONN DEATIL



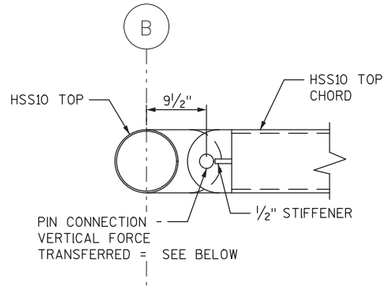
CONNECTION SCHEDULE	
BEAM SIZE	NUMBER OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9

6/S700 TYPICAL BEAM TO HSS COLUMN DETAIL



CONNECTION SCHEDULE	
BEAM SIZE	NUMBER OF ¾" DIA. A325N BOLTS
W8, W10	2
W12, W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9

7/S700 EXTENDED SINGLE PLATE BEAM TO COL CONN DETAIL



8/S700 TRUSS TO ENDFRAME

DEAD LOAD = 13.5 KIPS
SNOW LOAD = 27.0 KIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY: BLM | PLANS CK'D.: SWS

STEEL CONNECTION SECTIONS AND DETAILS

SHEET S-700

228

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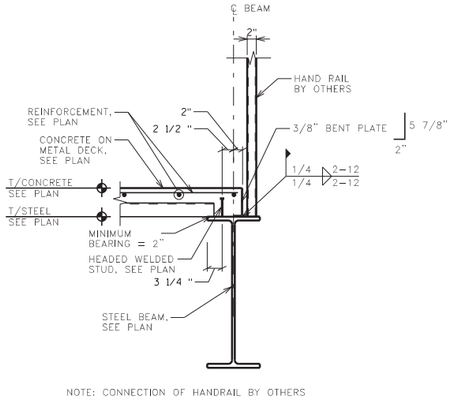
FILE= 20038_S700 STL CONN DTLS.DGN
SCALE = 1:2

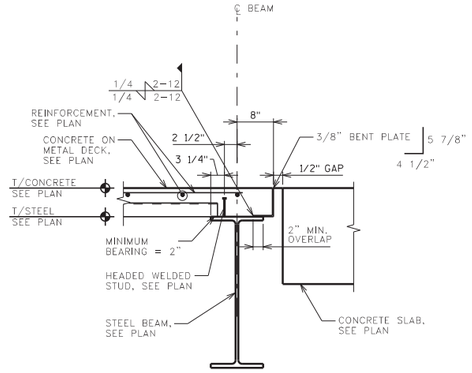
STATE PROJECT NUMBER

1000-40-70

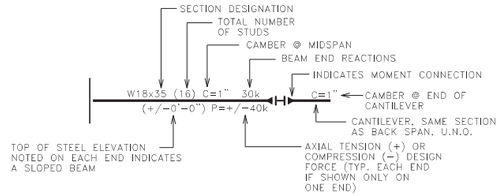


NOTE: CONNECTION OF HANDRAIL BY OTHERS

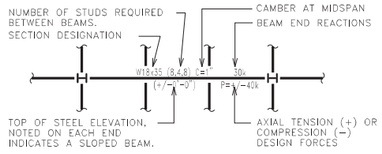
1 S-701 SECTION 3/4"=1'-0"

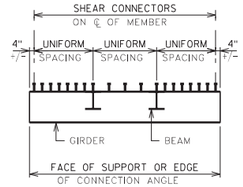


2 S-701 SECTION 3/4"=1'-0"



TYPICAL COMPOSITE BEAM

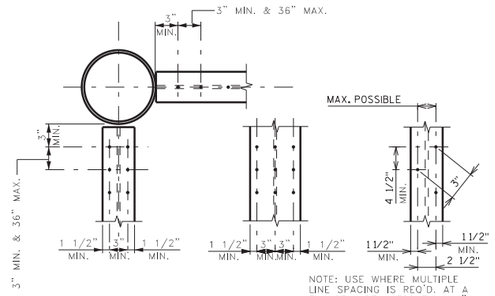




TYPICAL COMPOSITE GIRDER

1. PROVIDE CONNECTION DESIGN BASED ON END REACTIONS AND TYPE OF CONNECTION INDICATED ON THE DRAWINGS. END REACTIONS SHOWN ON THE DRAWINGS ARE WORKING LOADS. IF THE FABRICATOR DESIGNS CONNECTIONS USING LRFD, A 1.5 LOAD FACTOR SHALL BE USED.
2. MINIMUM NUMBER OF BOLTS ARE AS FOLLOWS: UNLESS MORE ARE REQUIRED PER NOTE 1.
   1. W8, W10, OR W12: 2 3. W18 OR W21: 4 5. W30 OR W33: 6
   2. W14 OR W16: 3 4. W24 OR W27: 5 6. W36: 7
3. TYPICAL CONNECTIONS OF BEAM TO BEAM OR BEAM TO HSS COLUMN SHALL BE DOUBLE ANGLE SHEAR CONNECTIONS AS SHOWN ON DETAIL 3/S-712 AND 10/S-713 UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
4. IN A MOMENT CONNECTION THE BEAM WEB SHEAR CONNECTION SHALL BE A SLIP CRITICAL BOLTED CONNECTION.

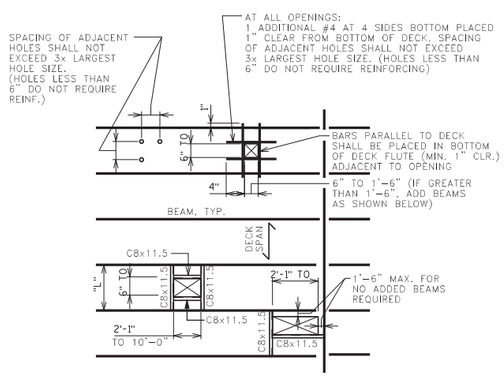
3 S-701 DETAIL 3/4"=1'-0"



NOTES:

A. ALL STUDS ARE 3/4" DIA. x 4.5" LONG UNLESS NOTED OTHERWISE. NUMBER OF STUDS IS INDICATED ON FRAMING PLAN.
B. SHEAR STUDS IN ONE ROW SHALL BE PLACED DIRECTLY OVER THE BEAM WEB.
C. PLACE STUDS IN A SINGLE ROW WHERE SPACING REQUIREMENTS PERMIT. STUDS SHALL BE PLACED IN TWO ROWS OR THREE ROWS ONLY WHERE REQUIRED. IN ORDER TO PLACE THE TOTAL NUMBER OF STUDS.
D. NUMBER OF STUDS PERMITTED PER INDIVIDUAL METAL DECK RIB IS 3 MAX.
E. THE MINIMUM DISTANCE OF A STUD BASE TO THE EDGE OF A FLANGE SHALL BE THE STUD DIAMETER PLUS 1/8 IN., BUT NOT LESS THAN 1 1/2 INCH.

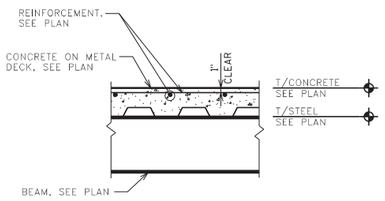
4 S-701 TYPICAL SHEAR STUD SPACING DETAIL 3/4"=1'-0"



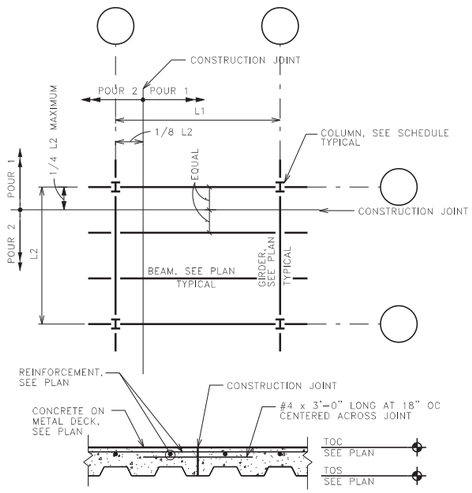
NOTES:

A. BLOCK OUT OPENING BEFORE PLACING CONCRETE. REMOVE BLOCKOUT AND CUT DECK AT UNFRAMED OPENINGS AFTER CONCRETE HAS CURED.
B. CONTRACTOR SHALL COORDINATE SIZE AND LOCATION WITH MECHANICAL AND ELECTRICAL CONCTRACTORS AND ARCHITECTURAL DRAWINGS.
C. SEE TYPICAL DETAILS 6 & 7/S-714 FOR COMPOSITE METAL DECK EDGE DETAILS AT FRAMED OPENINGS.

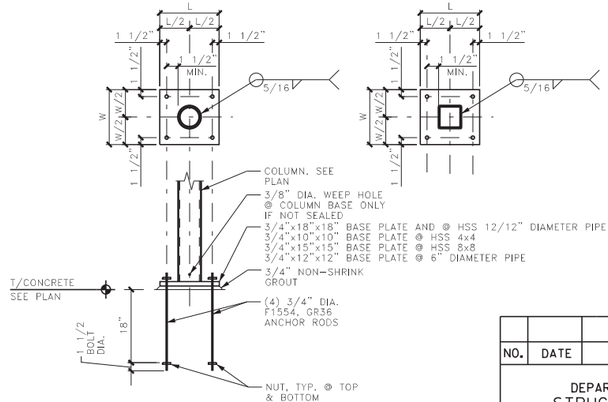
5 S-701 DETAIL 3/4"=1'-0"



6 S-701 SECTION 3/4"=1'-0"



7 S-701 SECTION 3/4"=1'-0"



8 S-701 SECTION 3/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

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CONCRETE AND STEEL DETAILS

SHEET S-701

229

8

8

FILE=
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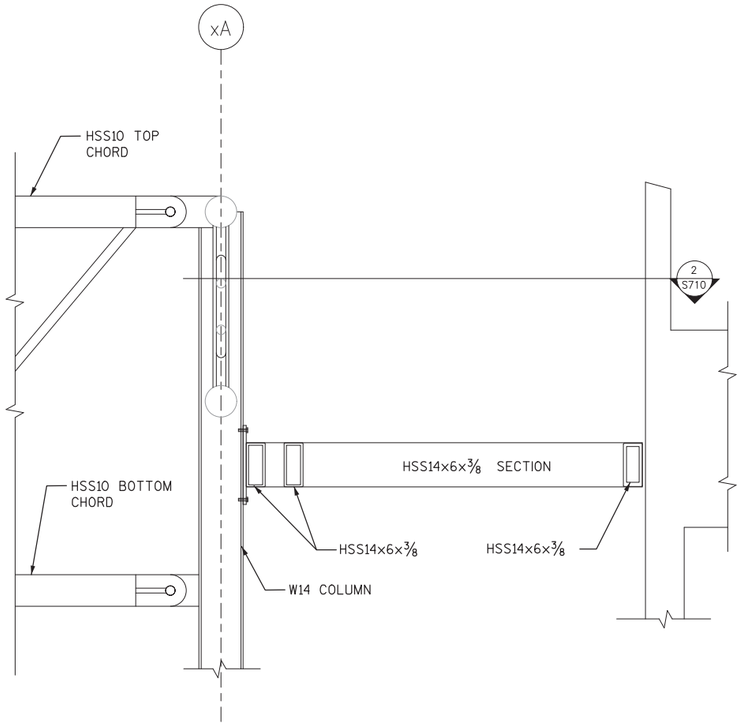
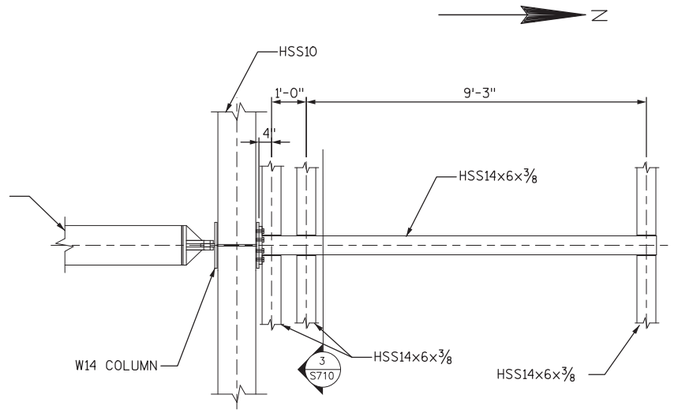
L:±JOBS2010±20100072-01±CAD±STRUCTURAL±DGN±00±S_00_0072_S701.DGN 5/31/2013 9:18:33 AM



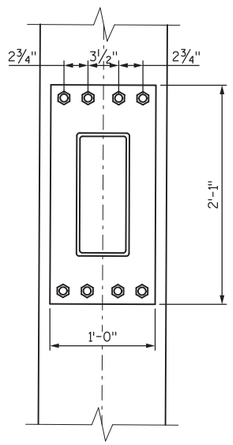
1 S710 NORTH CANOPY ELEVATION



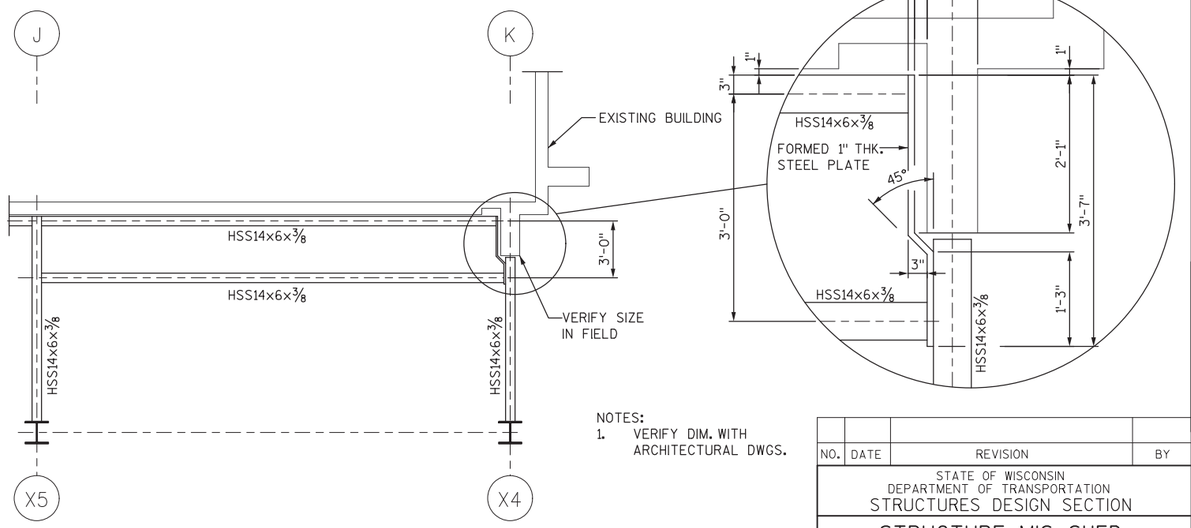
2 S710 PLAN TRUSS/CANOPY TO COLUMN CONNECTION

NORTH CANOPY HSS MOMENT CONNECTION SCHEDULE	
COLUMN LOCATION	CONNECTION FORCE (FACTORED)
X4	V=15.5 kip M=84.0 kip-ft
X5	V=25.8 kip M=139.0 kip-ft
X6	V=25.8 kip M=139.0 kip-ft
X7	V=25.8 kip M=139.0 kip-ft
X8	V=25.8 kip M=139.0 kip-ft
X9	V=25.8 kip M=139.0 kip-ft
X10	V=25.8 kip M=139.0 kip-ft
X11	V=25.8 kip M=139.0 kip-ft
X12	V=25.8 kip M=139.0 kip-ft
X13	V=25.8 kip M=139.0 kip-ft
X14	V=15.5 kip M=84.0 kip-ft

NOTES:
1. EAST-WEST FRAMING MEMBERS NOT SHOWN FOR CLARITY.



3 S710 MOMENT CONNECTION DETAIL



4 S710 PARTIAL PLAN

NOTES:
1. VERIFY DIM. WITH ARCHITECTURAL DWGS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

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STEEL SECTIONS & DETAILS

SHEET S-710

230

FILE= 20038_S710 STL DTLS.DGN
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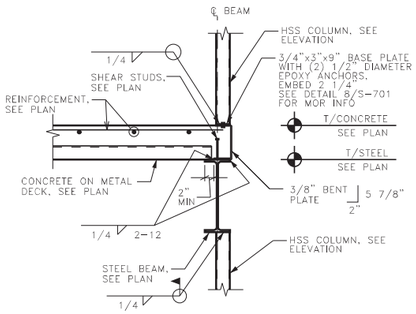
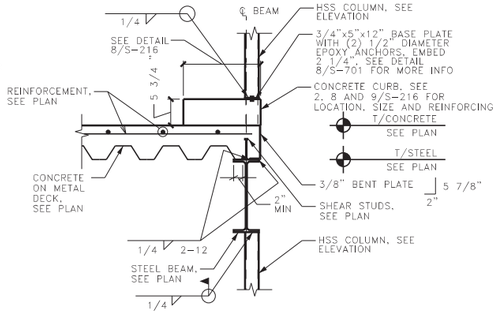
STATE PROJECT NUMBER

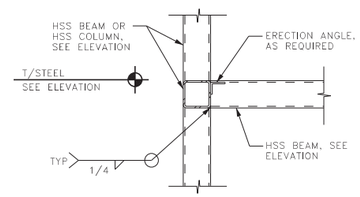
1000-40-70



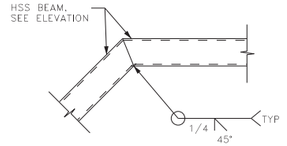
1 S-711 SECTION 3/4"=1'-0"



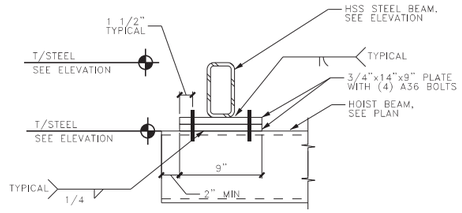
2 S-711 SECTION 3/4"=1'-0"



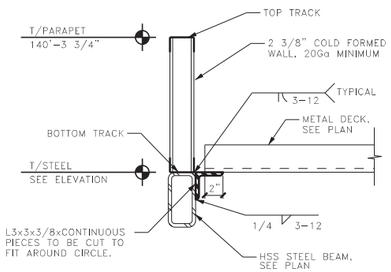
3 S-711 DETAIL 1 1/2"=1'-0"



4 S-711 DETAIL 1 1/2"=1'-0"

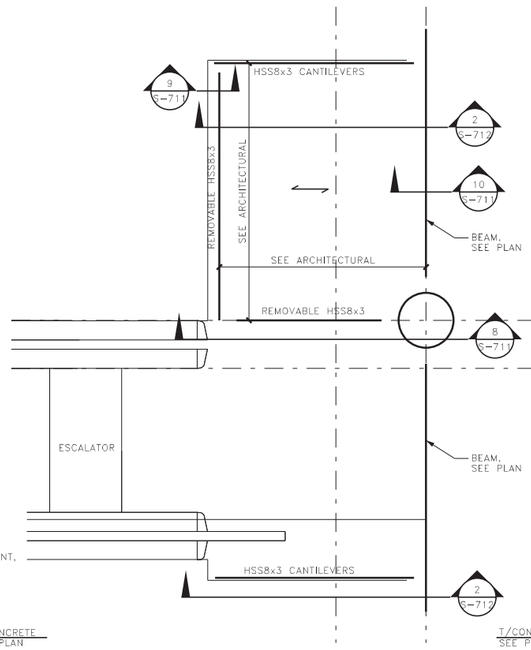


5 S-711 DETAIL 1 1/2"=1'-0"



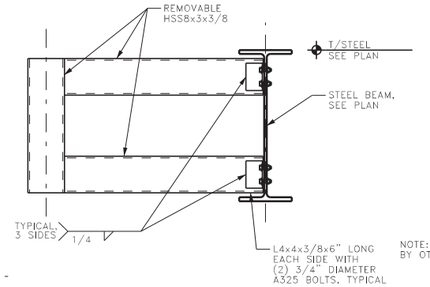
6 S-711 DETAIL 1 1/2"=1'-0"

NOTE: COLD FORMED DESIGN INCLUDING CONNECTIONS TO BE COMPLETED BY SPECIALTY ENGINEER

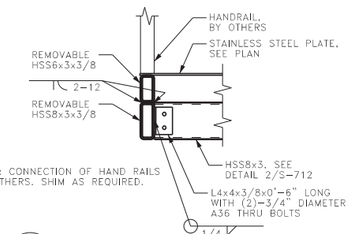


7 S-711 PARTIAL PLAN 1 1/2"=1'-0"

- ⟵⟶ = SPAN DIRECTION OF 1/4" STAINLESS STEEL CHECKERED PLATE, SEE ARCHITECTURAL DRAWINGS. CONNECTION PER MANUFACTURER'S RECOMMENDATION.
- PROVIDE NEOPRENE SHIM BETWEEN STAINLESS STEEL PLATE AND STRUCTURAL STEEL.

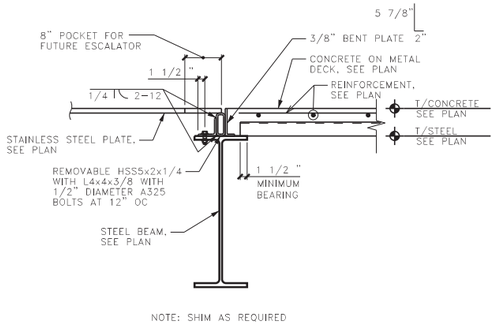


8 S-711 DETAIL 3/4"=1'-0"



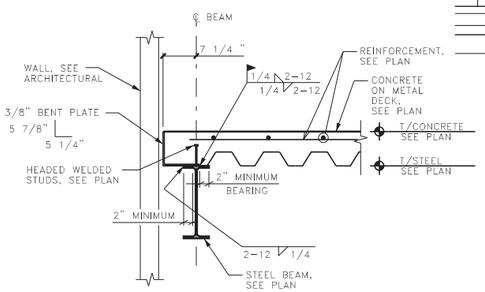
NOTE: CONNECTION OF HAND RAILS BY OTHERS. SHIM AS REQUIRED.

9 S-711 SECTION 3/4"=1'-0"

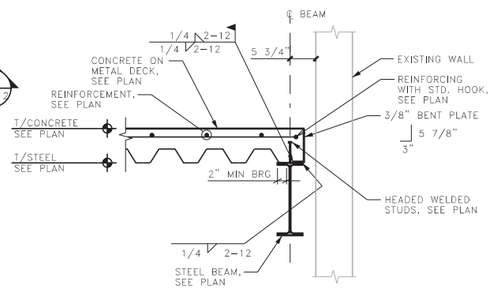


NOTE: SHIM AS REQUIRED

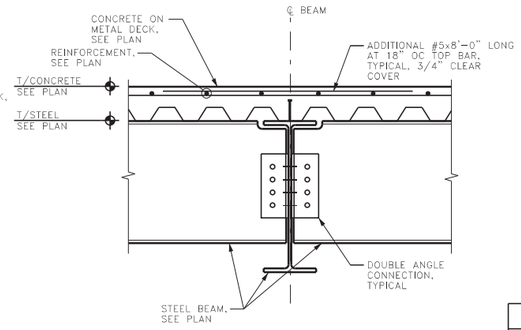
10 S-711 SECTION 3/4"=1'-0"



11 S-711 SECTION 3/4"=1'-0"



12 S-711 SECTION 3/4"=1'-0"



13 S-711 SECTION 3/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

STEEL SECTIONS AND DETAILS

SHEET S-711

231

FILE=
SCALE =

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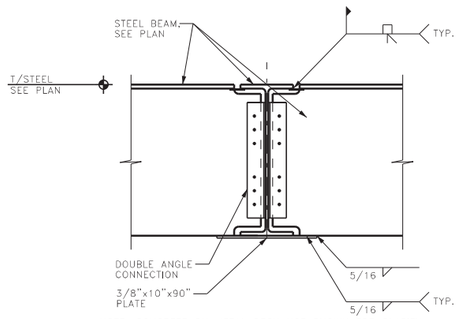
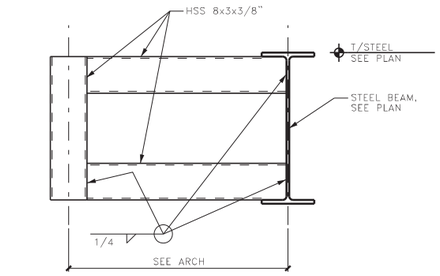
L:±JOBS2010±20100072-01±CAD±STRUCTURAL±DGN±00±S_00_0072_S711.DGN 5/31/2013 9:22:49 AM

STATE PROJECT NUMBER
1000-40-70



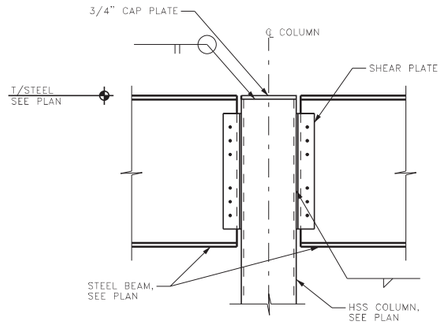
NOTE: CONCRETE ON METAL DECK NOT SHOWN FOR CLARITY.

1/S-712 DETAIL 3/4"=1'-0"



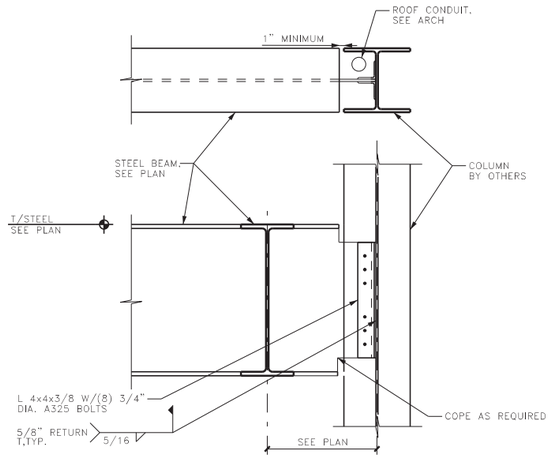
NOTE: CONCRETE ON METAL DECK NOT SHOWN FOR CLARITY.

2/S-712 DETAIL 3/4"=1'-0"



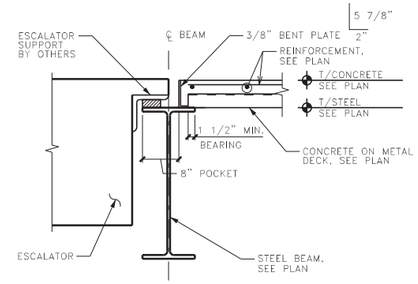
NOTE: CONCRETE ON METAL DECK NOT SHOWN FOR CLARITY.

3/S-712 DETAIL 3/4"=1'-0"



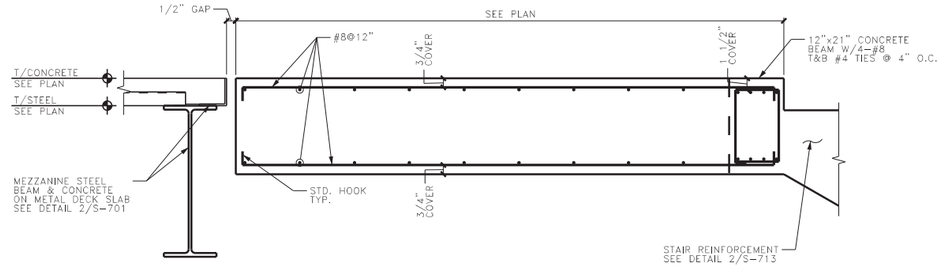
NOTE: CONCRETE ON METAL DECK NOT SHOWN FOR CLARITY.

4/S-712 DETAIL 3/4"=1'-0"



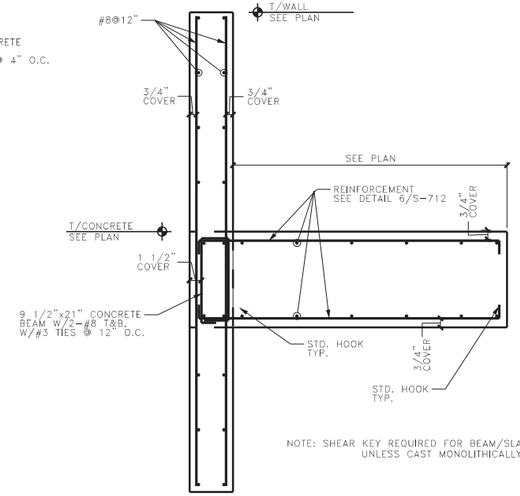
NOTE: CONNECTION OF ESCALATOR TO STRUCTURE BY OTHERS.

5/S-712 DETAIL 3/4"=1'-0"



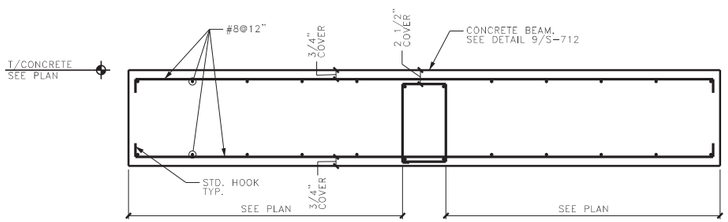
NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY.

6/S-712 DETAIL 3/4"=1'-0"



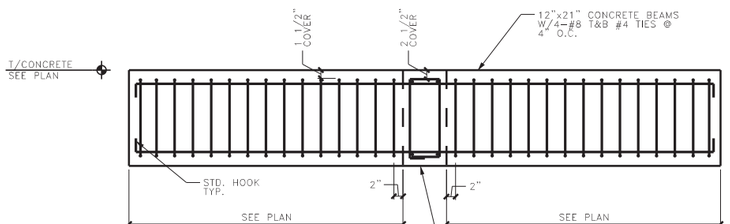
NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713

7/S-712 DETAIL 3/4"=1'-0"



NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713

8/S-712 DETAIL 3/4"=1'-0"



NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713

9/S-712 DETAIL 3/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

CONCRETE AND STEEL DETAILS

SHEET S-712

232

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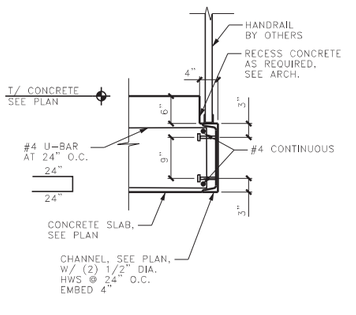
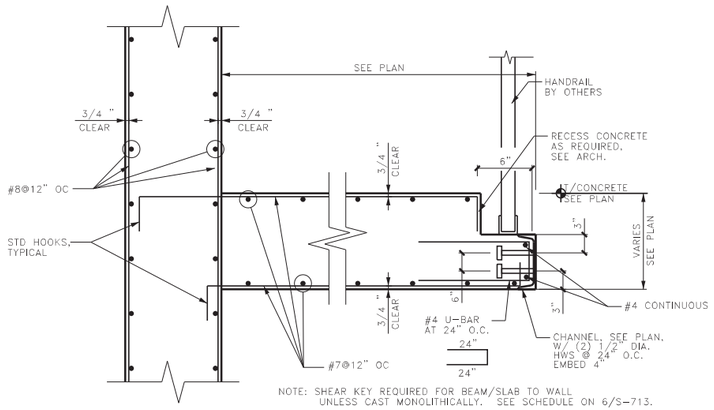
STATE PROJECT NUMBER

1000-40-70



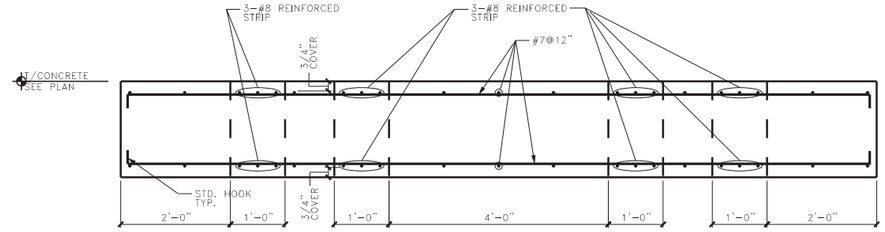
NOTE: REINFORCEMENT NOT SHOWN FOR CLARITY.

1 S-713 DETAIL
1 1/2" = 1'-0"



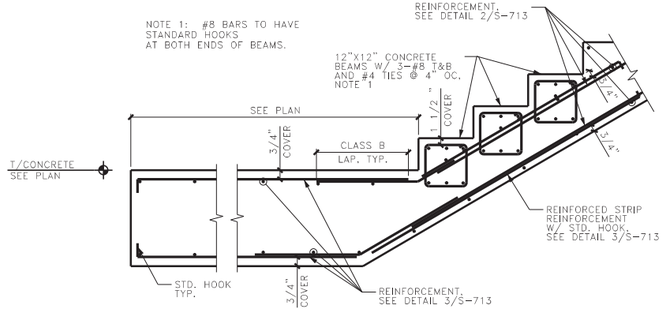
NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713.

2 S-713 DETAIL
1 1/2" = 1'-0"



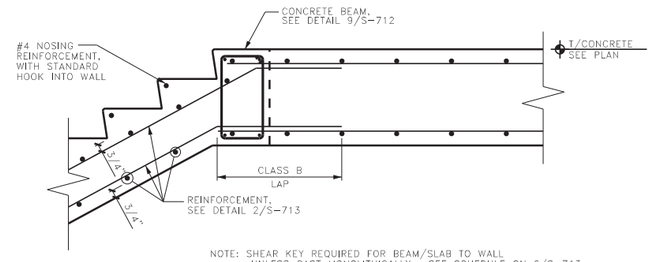
NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713.

3 S-713 DETAIL
3/4"=1'-0"



NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713.

4 S-713 DETAIL
3/4"=1'-0"

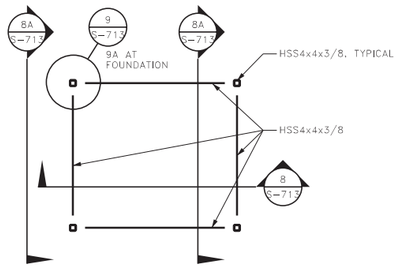


NOTE: SHEAR KEY REQUIRED FOR BEAM/SLAB TO WALL UNLESS CAST MONOLITHICALLY. SEE SCHEDULE ON 6/S-713.

5 S-713 DETAIL
3/4"=1'-0"

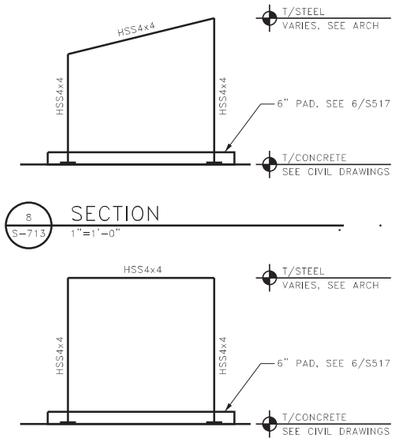
SHEAR KEY SCHEDULE		
DEPTH	SIZE OF SHEAR KEY	#
12"	2x6	1
21"	2x6	2

6 S-713 SCHEDULE
NTS



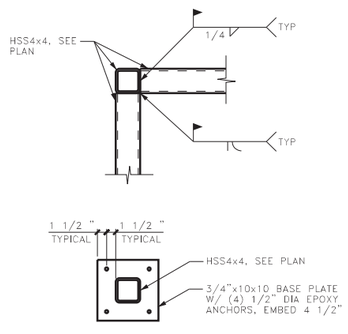
7 S-713 PLAN
1/4"=1'-0"

NOTE:
HSS4x4 TO BE BURIED IN COLD FORMED WALL. SEE ARCHITECTURAL



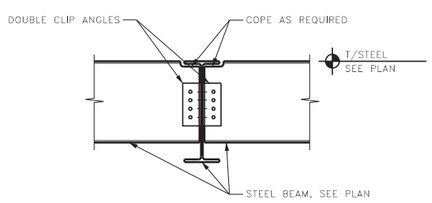
8 S-713 SECTION
1"=1'-0"

8A S-713 SECTION
1"=1'-0"



NOTE: USE ERECTION ANGLES AS REQUIRED

9 S-713 SECTION
1"=1'-0"



NOTE: CONCRETE ON METAL DECK NOT SHOWN FOR CLARITY

10 S-713 SECTION
1/2"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

CONCRETE AND STEEL DETAILS

SHEET S-713

233

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STATE PROJECT NUMBER
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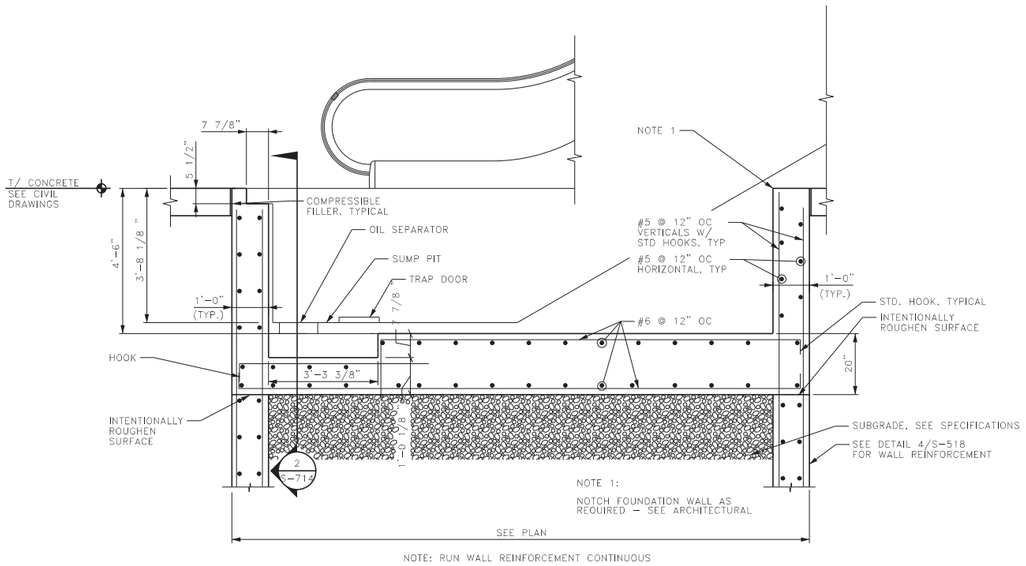
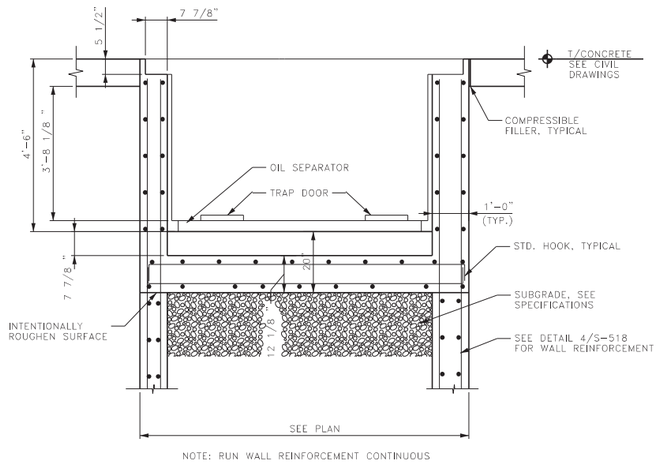
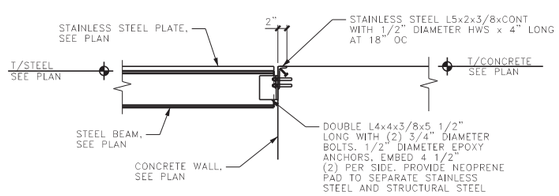


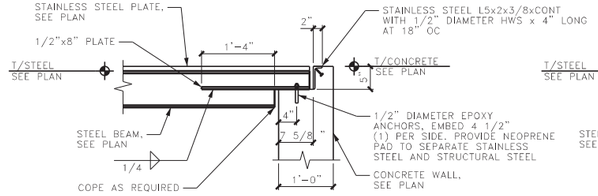
1 S-714 ELEVATOR FOUNDATION



2 S-714 SECTION THRU FOUNDATION



3 S-714 SECTION 3/4"=1'-0"



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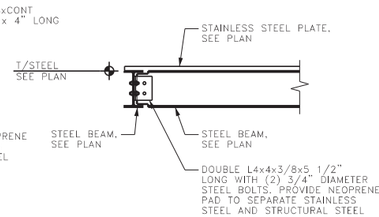
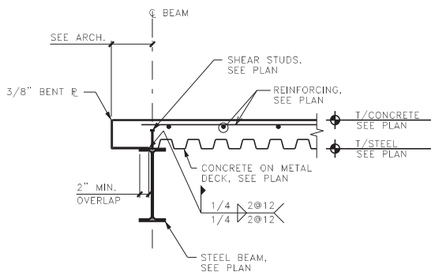
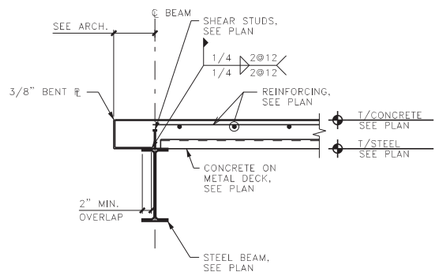


5 S-714 SECTION 3/4"=1'-0"



6 S-714 SECTION 3/4"=1'-0"



7 S-714 SECTION 3/4"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BMS | PLANS CK'D. LB

FOUNDATION DETAILS

SHEET S-714

234

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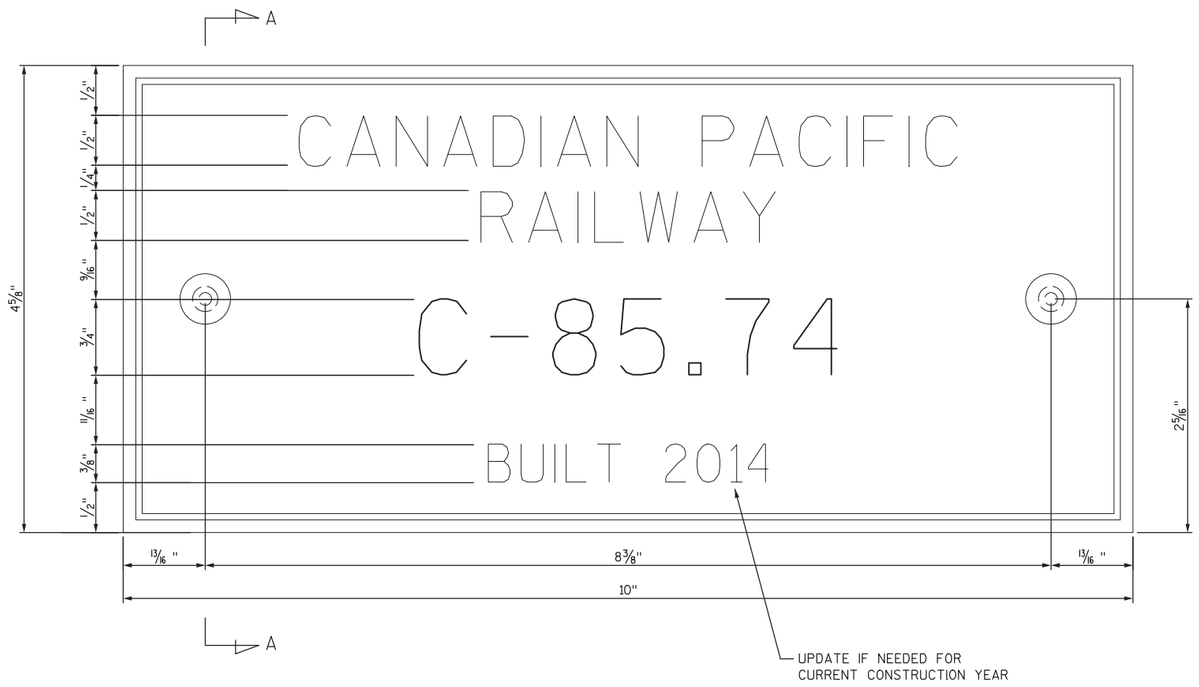
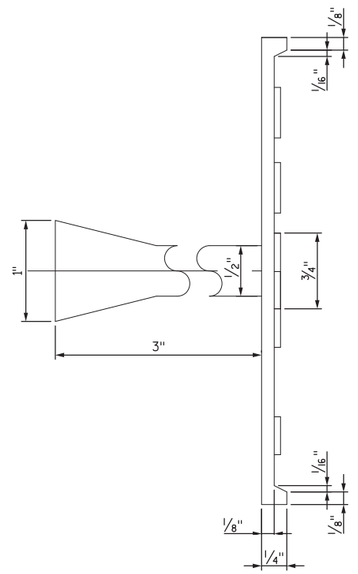
STATE PROJECT NUMBER
1000-40-70



1 S720 NAME PLATE



2 S720 SECTION A-A

8

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NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

COST OF NAME PLATE IS INCLUDED IN COST OF CONCRETE STRUCTURES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE MIS SHED

DRAWN BY BLM | PLANS CK'D. SWS

NAME PLATE

SHEET S-720

235

FILE= 20038_NAME PLATE.DGN
SCALE = 1:0.125

Wisconsin Department of Transportation

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