MILWAUKEE AIRPORT RAIL STATION
SECOND PLATFORM PROJECT

FRA GRANT/COOPERATIVE AGREEMENT
69A36521402380CRSWI

WISDOT PROJECT
#1000-57-70

FEBRUARY 1, 2021

90% DESIGN SUBMITTAL

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\000001Signature.dgn PLOT BY : jessica.lancelle PLOT NAME :

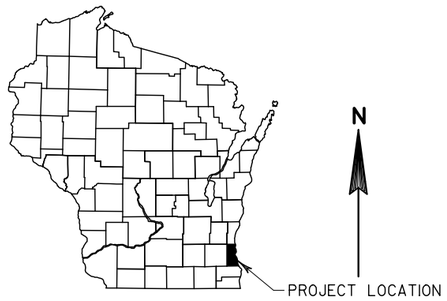
PROJECT ID: 1000-57-70
WITH: N/A

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 =



DESIGN DESIGNATION

A.A.D.T.	= N/A
A.A.D.T.	= N/A
D.H.V.	= N/A
D.D.	= N/A
T.	= N/A
DESIGN SPEED	= N/A
ESALS	= N/A

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MILWAUKEE AIRPORT 2ND PLATFORM

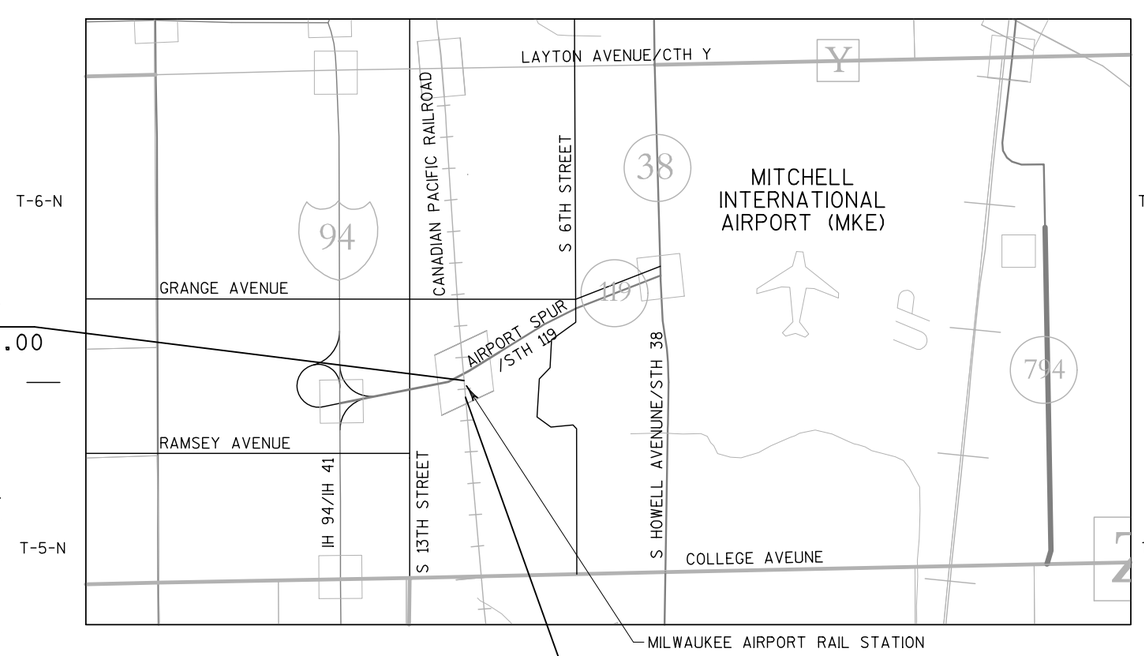
2RR CROSSING 393023R TO 1200 FT SOUTH

EX-RR CROSSING IMPROVEMENT

MILWAUKEE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-57-70		

STATE PROJECT NUMBER
1000-57-70



LAYOUT
SCALE 0 3 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MILWAUKEE COUNTY, NAD 83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ORIGINAL PLANS PREPARED BY

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1555 N River Center Drive, Suite 214
Milwaukee, WI 53212
T 414.944.6080
F 414.944.6081

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AECOM
Designer	AECOM
Project Manager	CHRIS HAGER
Regional Examiner	
Regional Supervisor	
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

PRE_2

E

2

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2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTLITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. FIELD VERIFICATION REQUIRED.

DISTRUBED AREAS WITHIN RIGHT-OF-WAY MUST BE FERTILIZED, SEEDED, AND MULCHED.

SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVALS
PLAN DETAILS
GRADING PLANS
EROSION CONTROL
DRAINAGE
PROFILES
STAGING PLANS
ALIGNMENTS AND CONTROL POINTS

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GEZ GEBRE - AIRPORT IT
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WISDOT - FIBER OPTIC

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

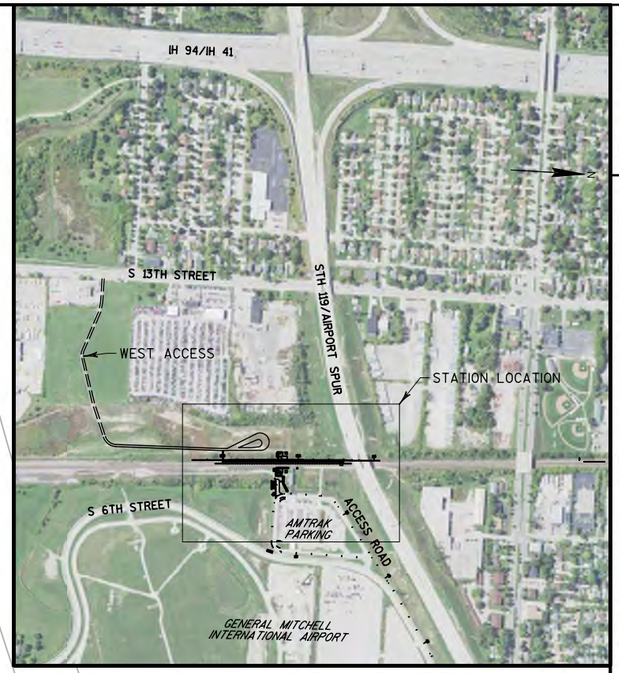


PROJECT NO:1000-57-70	HWY:N/A	COUNTY:MILWAUKEE	PROJECT OVERVIEW	SHEET E

PRE_5

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PLOTTED : Apr 25, 2022
PLOT BY : jessica.lancelle
PLOT NAME :
PLOT SCALE : 100.0000 sf / in.

2



N

24

16

TO 13TH STREET

18

℄ WEST ACCESS

20

22

BEGIN PROJECT
STA. 100+00.00

WEST TOWER

PLATFORM CANOPY

PEDESTRIAN BRIDGE

CONCRETE PLATFORM

98 100 102 104 106 108 110

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

GENERATOR & TRANSFORMER AREAS

EAST TOWER

AMTRAK STATION

END PROJECT
STA. 108+00.00

CONNECTION FROM EXISTING STATION TO EAST TOWER

AUTHORIZED PERSONNEL PARKING LOT

30

32

34

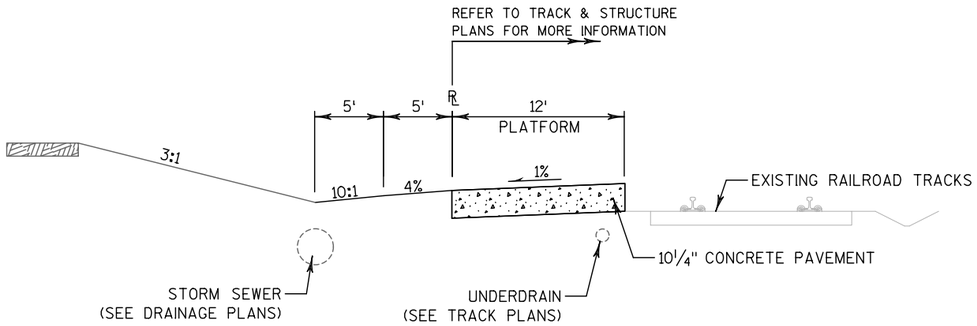
ACCESS ROAD

AMTRAK PARKING

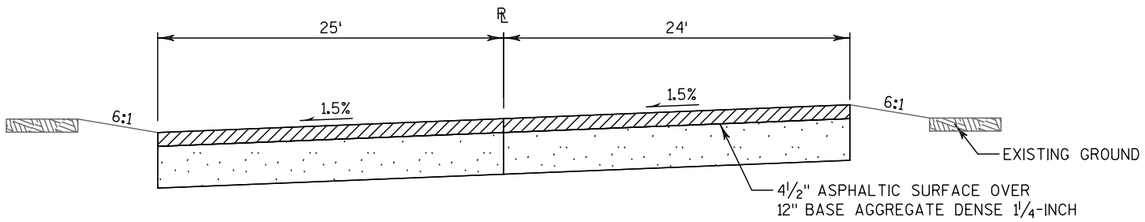
AIRPORT SPUR/STH 119

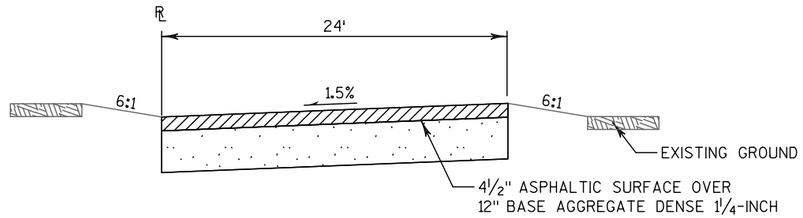
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET E

PRE_6

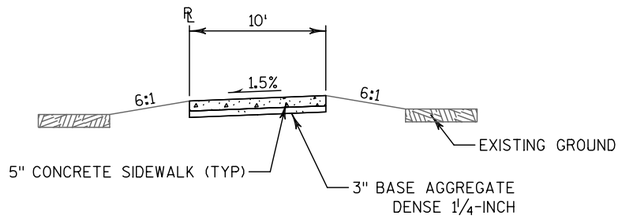


TYPICAL FINISHED SECTION
WEST OF PLATFORM
(LOOKING NORTH)

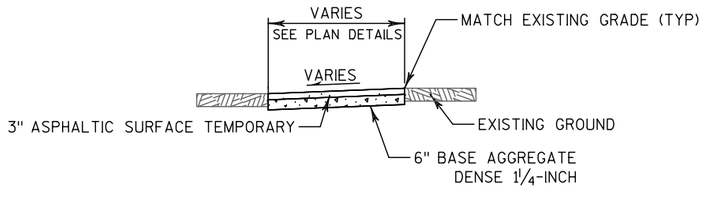




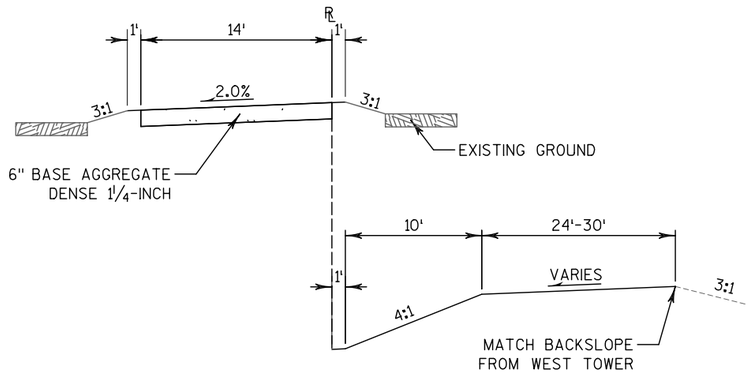
TYPICAL FINISHED SECTION
PARKING AREA
(LOOKING WEST)



TYPICAL FINISHED SECTION
SIDEWALK SECTION
(LOOKING WEST)



TYPICAL TEMPORARY SECTION
TEMPORARY ACCESS TO 6TH STREET THROUGH PARKING LOT
(LOOKING WEST)

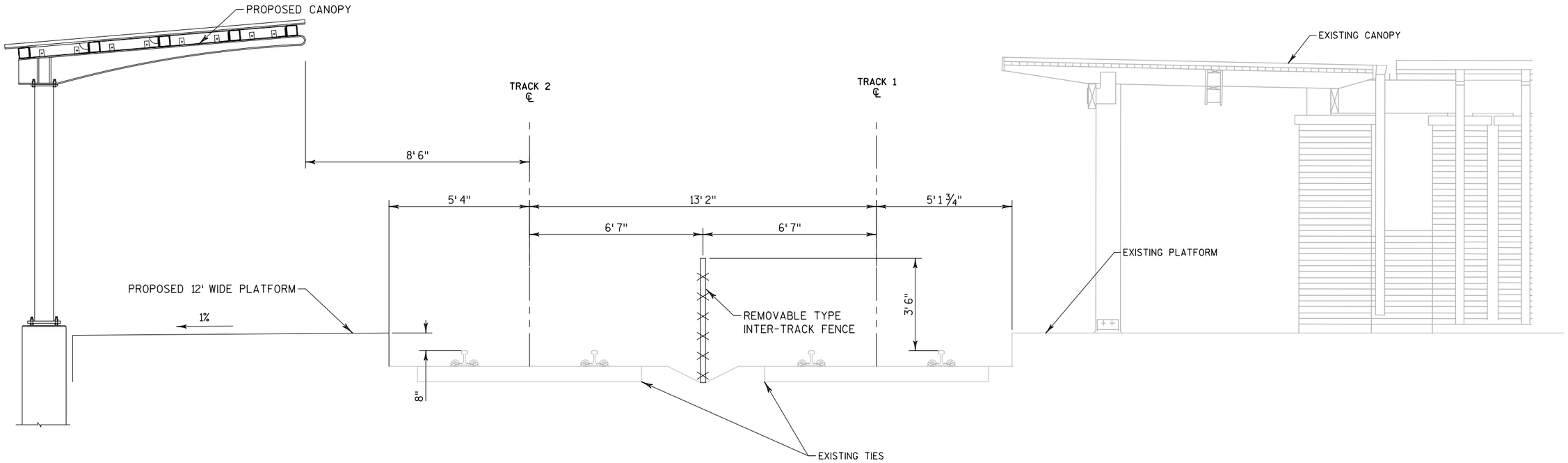


STA 20+00 TO STA 22+00

TYPICAL FINISHED SECTION
WEST ACCESS ROAD
(LOOKING EAST/NORTH)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET E

PRE_7

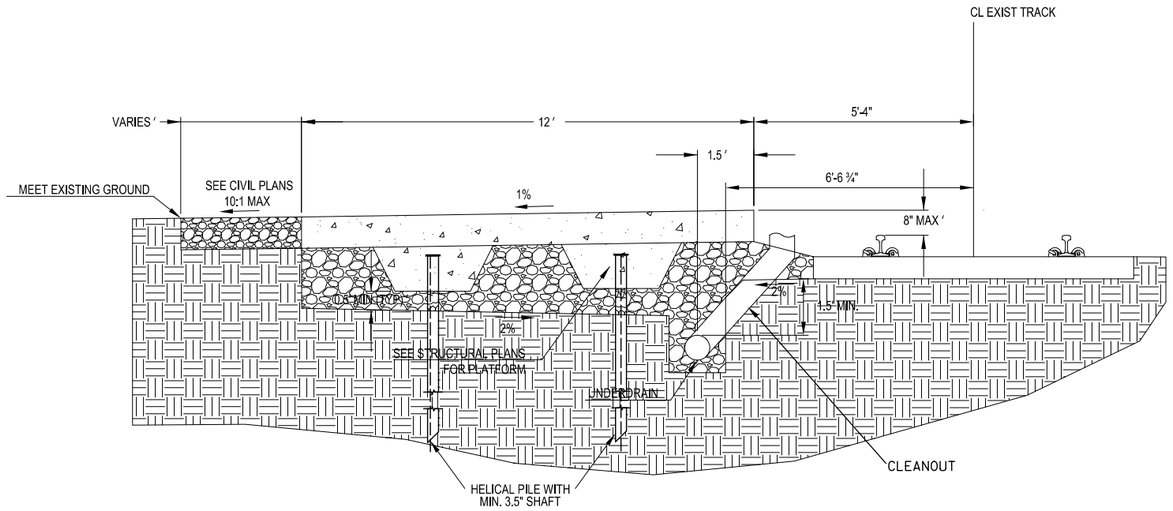


TYPICAL SECTION

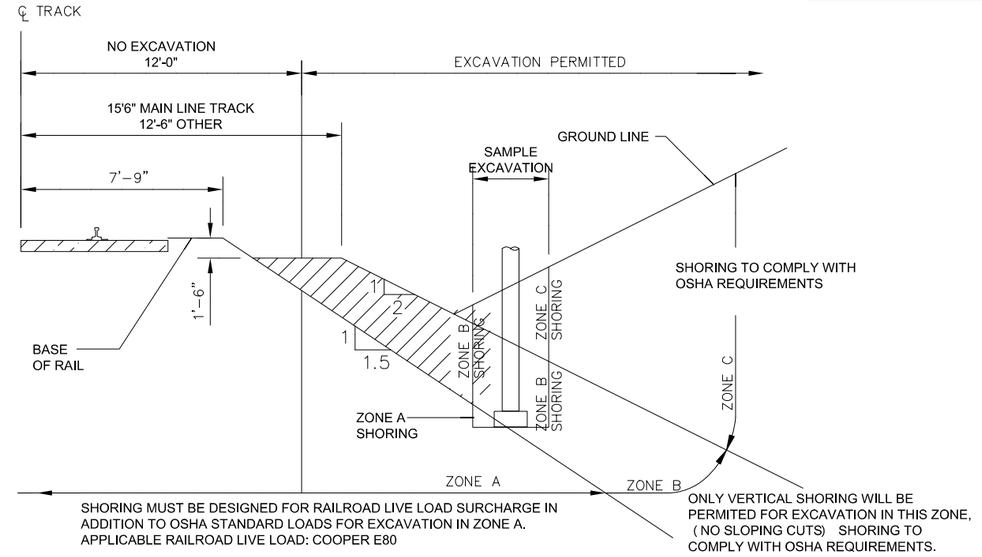
STA 100+00 - STA 108+00
LOOKING NORTH
CANOPY STA 100+26 - STA 105+26

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	TYPICAL SECTION	SHEET E

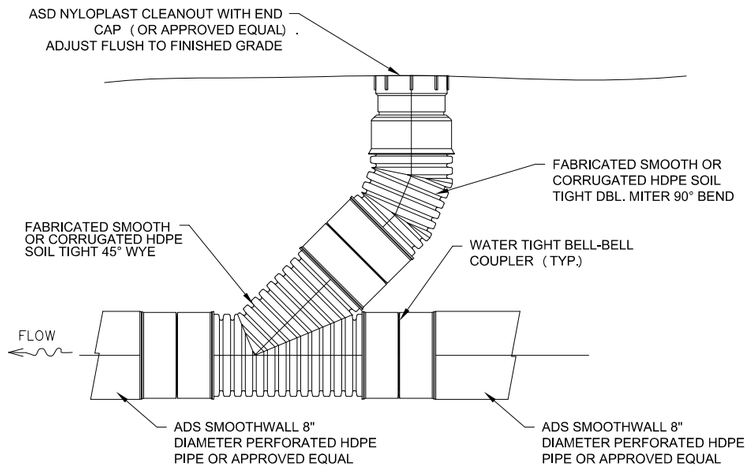
PRE_8



1 PLATFORM SECTION
N.T.S.



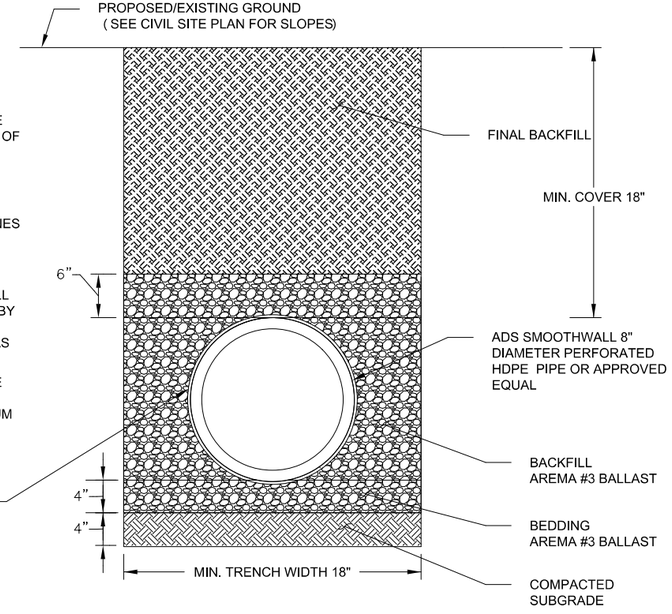
2 TEMPORARY SHORING
N.T.S.



3 CLEAN OUT DETAIL
N.T.S.

NOTES:

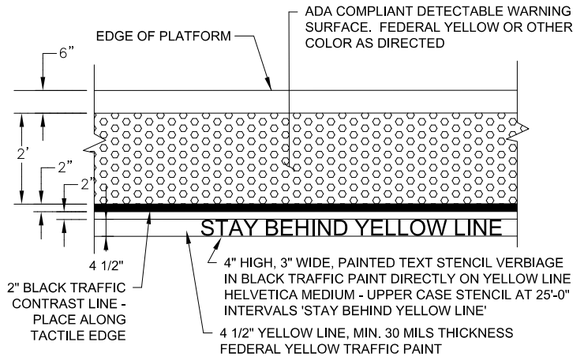
1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE OR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS) .
2. MEASURE SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIALS WHEN REQUIRED.
3. WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL UNDERCUT TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE FILL AND A GEOTEXTILE AS SPECIFIED BY THE ENGINEER.
6. SUBGRADE AND BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AND +/- 2% OF THE OPTIMUM MOISTURE CONTENT BASED ON STANDARD PROCTOR TEST.



4 UNDERDRAIN TRENCH SECTION
N.T.S.

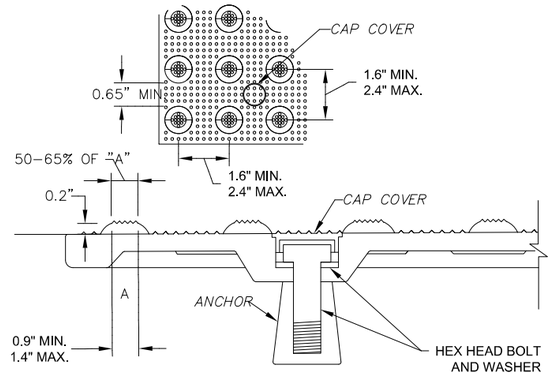
PROJECT NO:1000-57-05	HWY:N/A	COUNTY:MILWAUKEE	UNDERDRAIN DETAIL SHEET	SHEET E

PRE_9



NOTE:
1. PLATFORM MUST BE PRESSURE WASHED CLEAN PRIOR TO PAINTING, INCLUDING TACTILE.
2. BLACK AND YELLOW LINES MUST BE MASKED OR ANOTHER METHOD MUST BE USED TO PREVENT PAINT OVERFLOW OR OVER SPRAY INTO UNWANTED AREAS, LINES MUST BE CLEAN, STRAIGHT, SHARP AND PARALLEL WITH TACTILE.
3. FOLLOW ALL PAINT MANUFACTURERS INSTALLATION AND PREPARATION GUIDELINES.
4. ADD ADDITIONAL 1'-0" TO THE INSIDE EDGE OF 'STAY BEHIND YELLOW LINE' FOR CURVED TRACK.
5. WHEN DETERMINING DISTANCE FOR THE INSIDE EDGE OF THE YELLOW LINE, TAKE MEASUREMENTS AT THREE DIFFERENT SPOTS FROM THE CENTER OF TRACK OUT 8'-2" AT THREE DIFFERENT SPOTS (ONE AT EACH END AND ONE IN THE MIDDLE) . IF THE THREE MEASUREMENTS ARE NOT ALIGNED WITH TACTILE, USE THE FURTHEST MEASUREMENT AS A MINIMUM REQUIREMENT. PAINT YELLOW LINE PARALLEL WITH TACTILE AT THE FURTHEST POINT OF THE THREE MEASUREMENTS.
6. USE ENNIS-FLINT-ES SERIES DURASHEEN TRAFFIC PAINT. PRODUCT CODE 985542 YELLOW AND 985203 BLACK.

1 PLATFORM MARKING DETAIL
N.T.S.

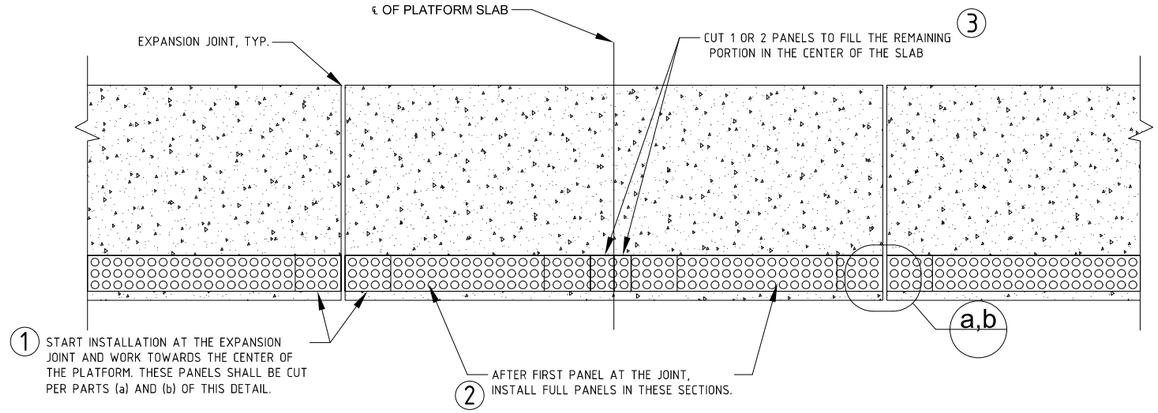


NOTES:
1. CONTRACTOR SHALL USE ADA SOLUTIONS EMBEDDED/REPLACEABLE DETECTABLE WARNING OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9" MIN TO 1.4" MAX, WITH A TOP DIAMETER OF 50-65% OF THE BASE DIAMETER, A HEIGHT OF 0.2", AND 1.6" MIN./2.4" MAX. CENTER TO CENTER SPACING.
3. DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES;

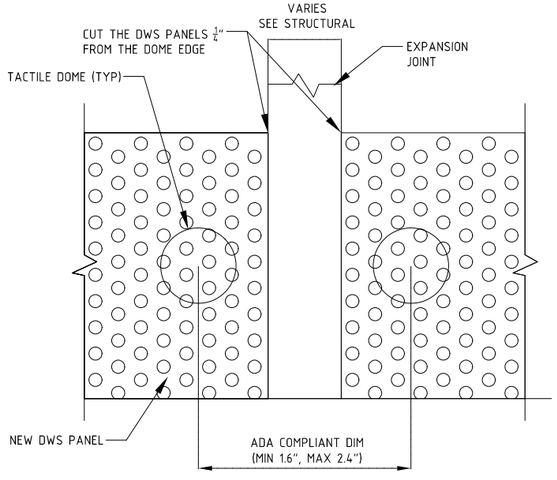
2 EMBEDDED/REPLACEABLE DETECTABLE WARNING SURFACE DETAIL
N.T.S.

STANDARD NOTES:

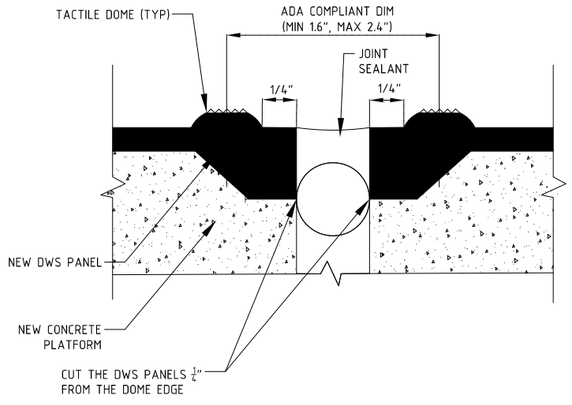
- ALL DOME SPACING BETWEEN ADJACENT PANELS SHALL BE GREATER THAN 1.6" AND LESSER THAN 2.4".
- SEAL ALL EXPANSION JOINTS UNIFORMLY AFTER REINSTALLATION OF DWS.
- CONCRETE EDGE MUST BE TOOLED WITH A 1/4" REVEAL ALONG THE LONGER SIDES OF THE DWS PANEL.
- WHEN DWS PANELS ARE CUT, ANCHORS SHOULD BE WITHIN 4.8" MINIMUM OF THE TILE EDGE. ADDITIONAL SEPARATE ANCHORS CAN BE USED. CONTACT THE MANUFACTURER FOR ADDITIONAL INSTRUCTIONS.
- ALL JOINTS BETWEEN DWS PANELS SHOULD BE MAINTAINED AT 1/8" .
- PROVIDE 1/8" JOINT BETWEEN EACH PANEL. PROVIDE MINIMUM 1/2" JOINT AT ALL EXPANSION JOINTS BETWEEN THE TWO DWS PANELS. THE DWS CAN OVERHANG ON THE EXPANSION JOINT BY 1/4" OR AS REQUIRED WITH AN ANCHOR IN EACH CORNER IN FIRST DOME SPACING FROM THE EDGE.
- VERIFY ALL MEASUREMENTS IN FIELD PRIOR TO INSTALLATION.



PARTIAL PLATFORM PLAN
(c)

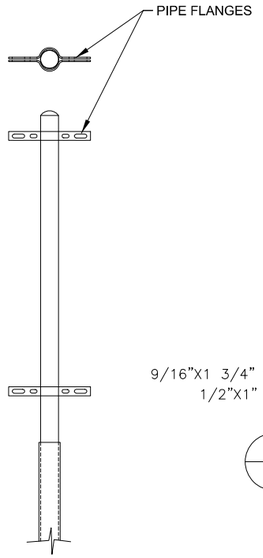


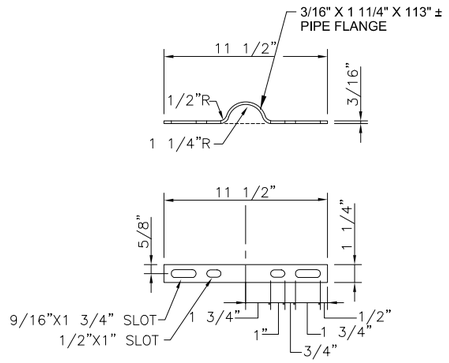
PANELS ADJACENT TO JOINT
PLAN VIEW
(a)



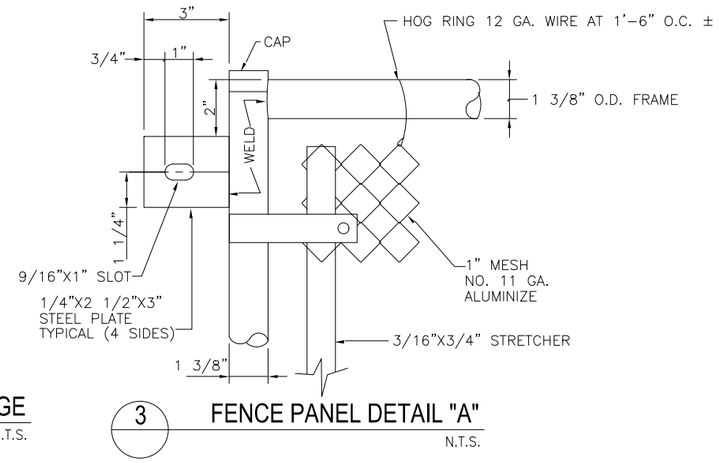
PANELS ADJACENT TO JOINT
SECTION VIEW
(b)

3 DETECTABLE WARNING SURFACE PLACEMENT DETAILS
N.T.S.





2 MODIFIED PIPE FLANGE
N.T.S.



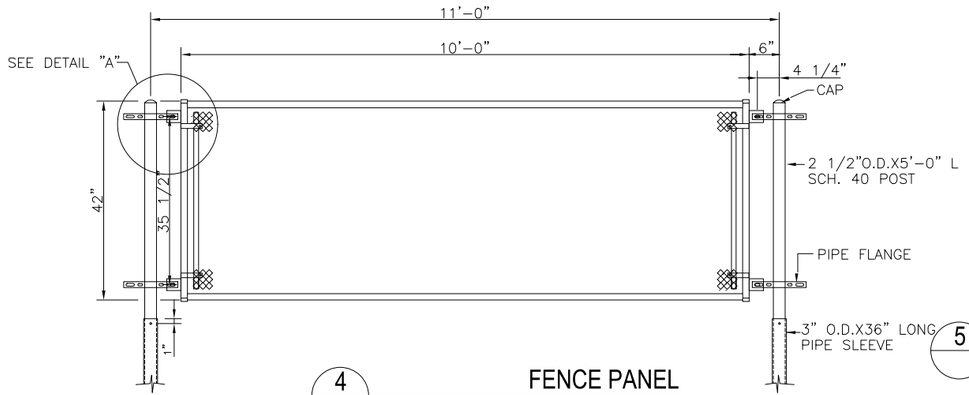
3 FENCE PANEL DETAIL "A"
N.T.S.

NOTES:

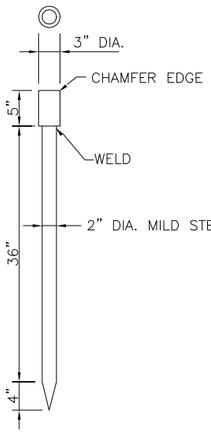
1. USE HEX BOLT 3/8" DIA., 1 1/2" LONG, 1 HEX NUT, ONE FLAT WASHER AND ONE LOCK WASHER PER HOLE.
2. ALL POST, RAILS AND PIPE FLANGES SHALL BE A 120 GALVANIZED AFTER FABRICATION SCH. 40 PIPE.
3. DRESS BALLAST LEVEL BEFORE INSTALLING SLEEVES WITH PD135 "RHINO" POST DRIVER.
4. FENCE SHALL ENTEND A MINIMUM 50 FT. BEYOND END OF PLATFORMS UNLESS PREVENTED BY PHYSICAL OBSTRUCTION OR CLEARANCE RESTRICTIONS.
5. DIMENSIONS AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO THE FABRICATION OF ANY MATERIAL.
6. ALL INSTALLATIONS AT NEW LOCATIONS OR EXTENSIONS OF EXISTING MUST BE APPROVED BY THE DIRECTION CLEARANCE, INSPECTION AND TEST.



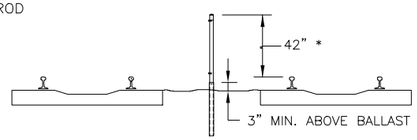
1 POST LAYOUT
N.T.S.



4 FENCE PANEL
N.T.S.

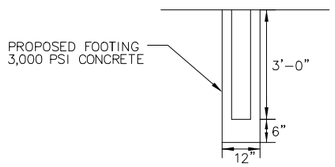


5 DRIVING ROD
N.T.S.



* ADJUST TO SUIT FIELD CONDITIONS

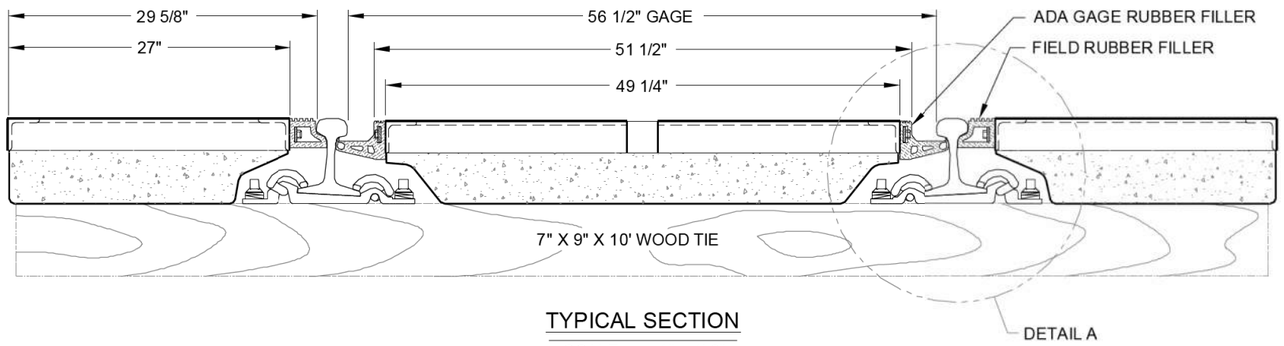
6 TRACK CROSS SECTION
N.T.S.



7 FENCE POST FOUNDATION
N.T.S.

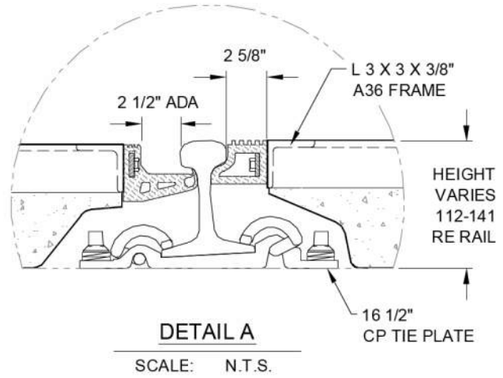
PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	REMOVABLE INTERTRACK FENCE DETAIL SHEET	SHEET E

PRE_11



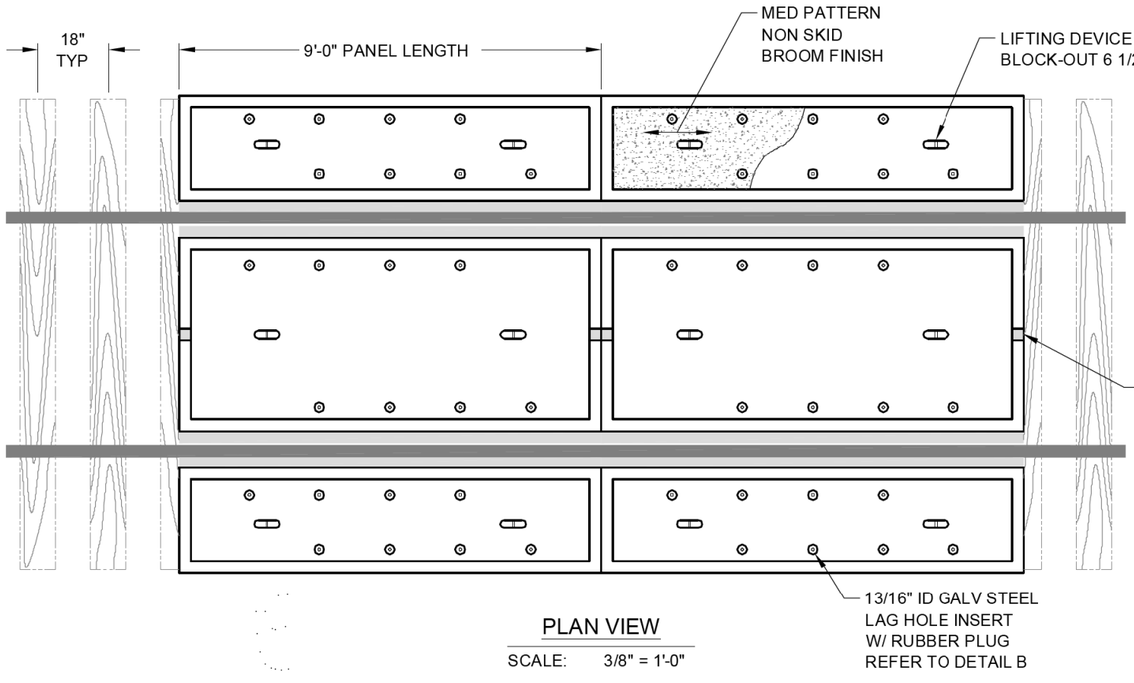
TYPICAL SECTION

SCALE: 1" = 1'-0"



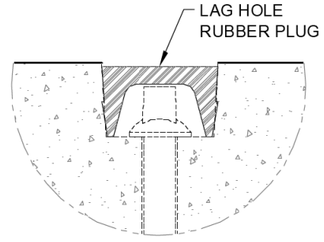
DETAIL A

SCALE: N.T.S.



PLAN VIEW

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



DETAIL B

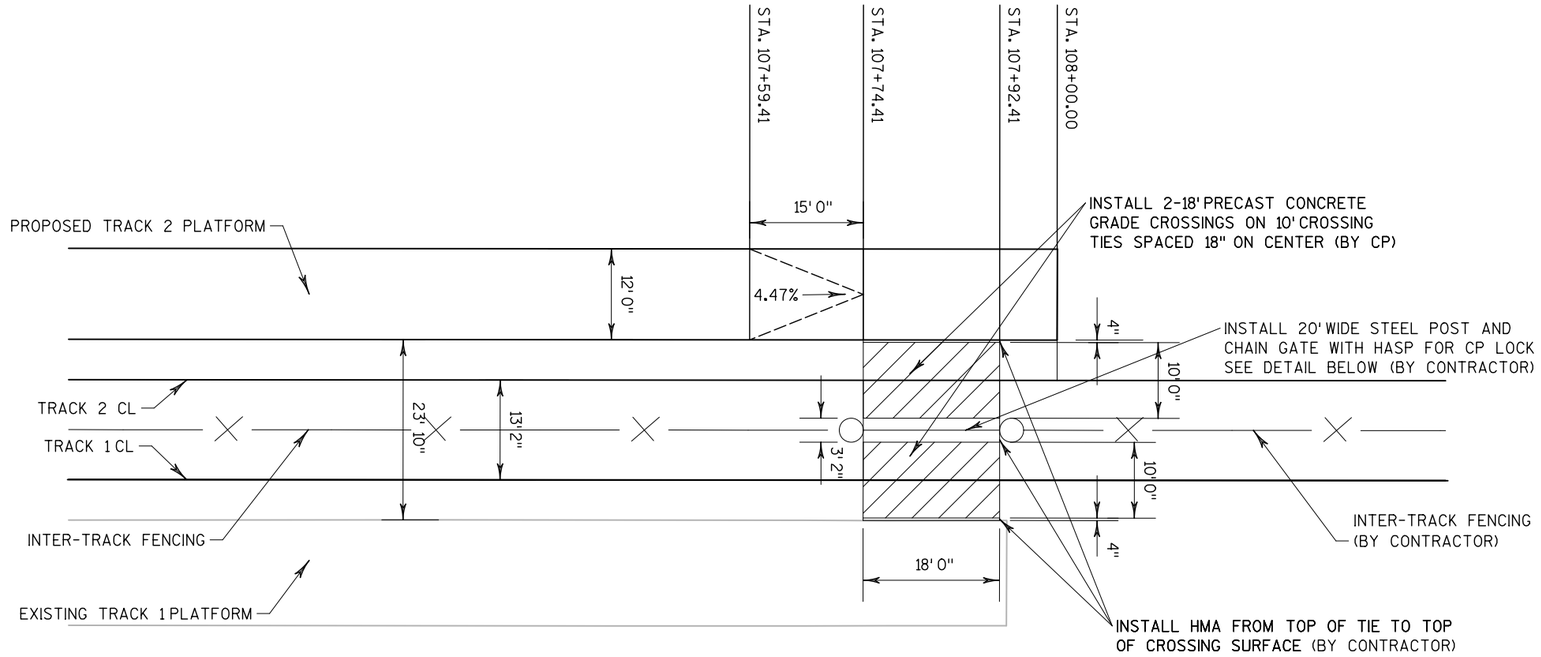
SCALE: N.T.S.

NOTES:
1. POLY FIBER REINFORCEMENT @ 3 LB. PER CU YD.
2. SEE OMEGA'S MANUAL FOR INSTALLATION INSTRUCTIONS.
3. CROSSING MATERIAL TO BE FURNISHED AND INSTALLED BY CP.

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	GRADE CROSSING DETAIL (SHEET 1 OF 2)	SHEET E

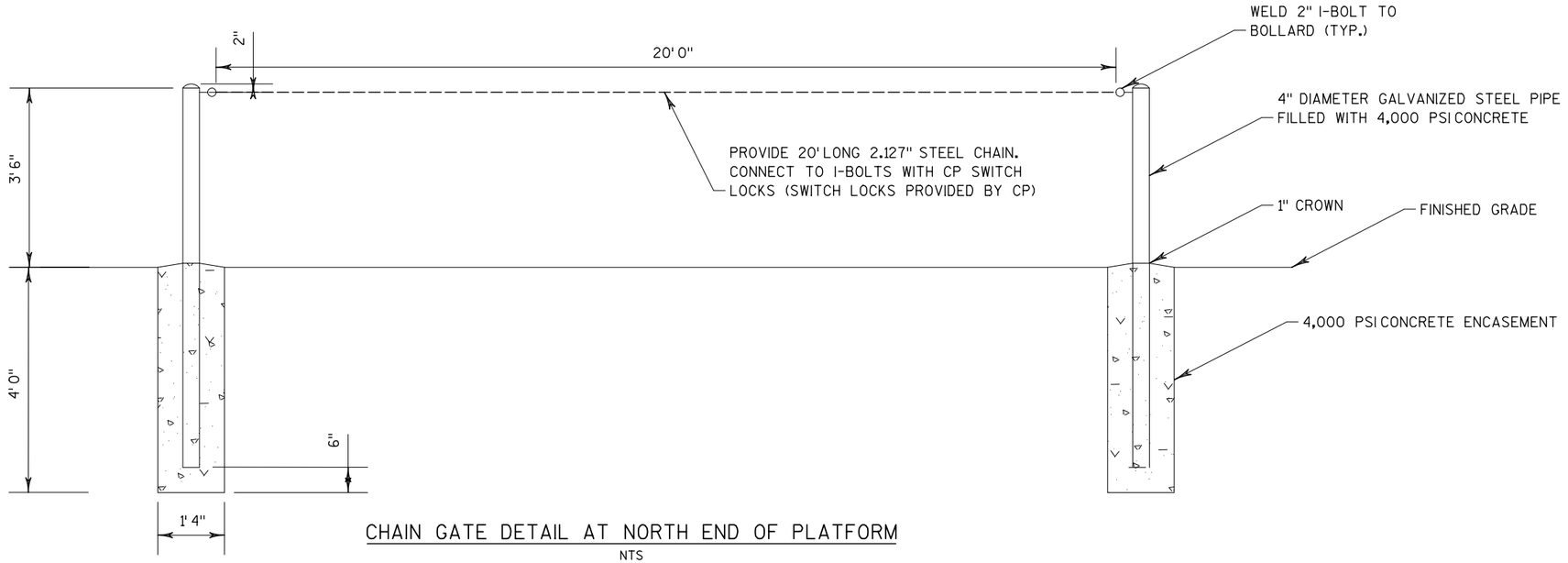
PRE_12

2



GRADE CROSSING DETAIL PLAN AT NORTH END OF PLATFORM

SCALE: 1":20'



CHAIN GATE DETAIL AT NORTH END OF PLATFORM

NTS

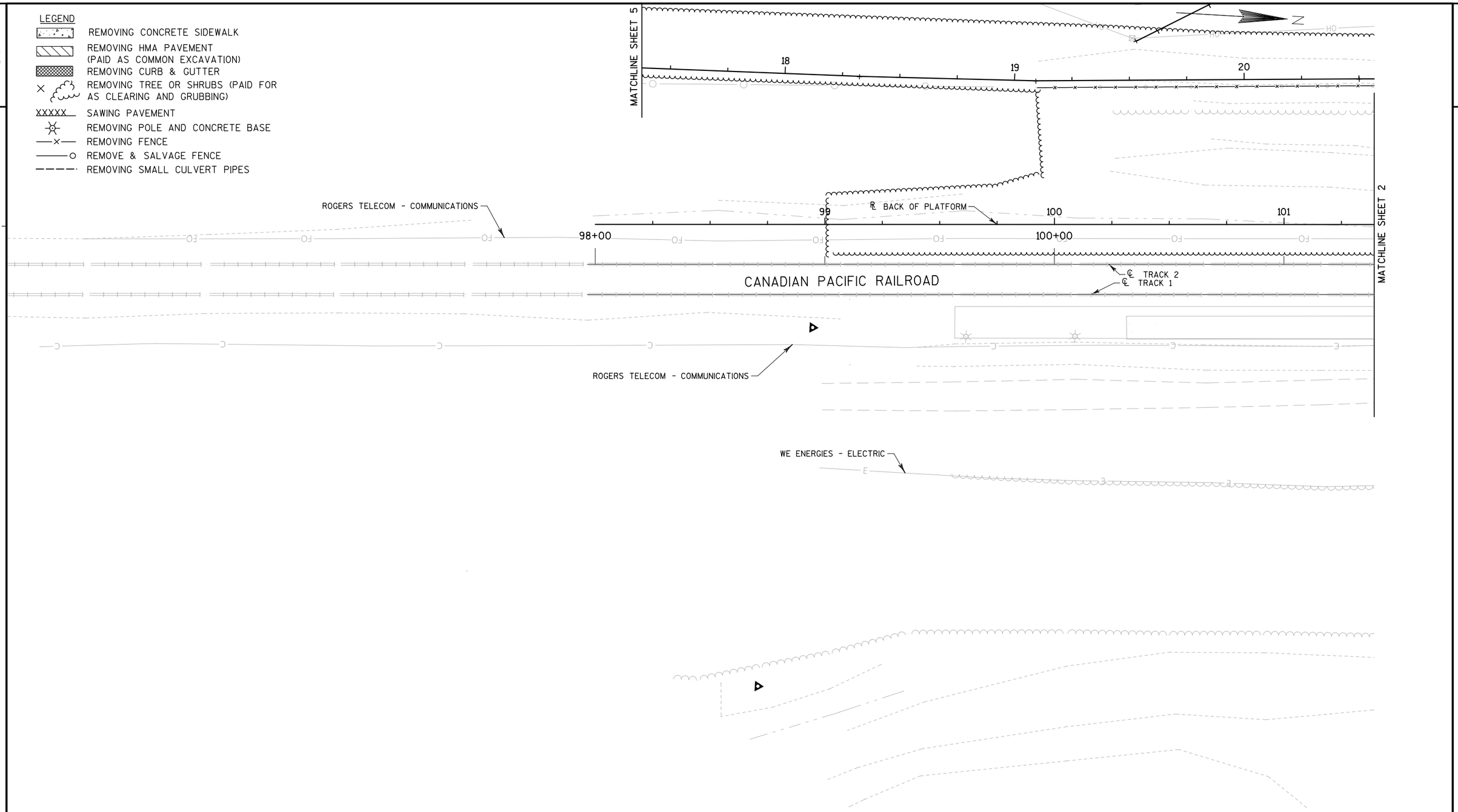
PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	GRADE CROSSING DETAIL (SHEET 2 OF 2)	SHEET E

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.

2

LEGEND

- REMOVING CONCRETE SIDEWALK
- REMOVING HMA PAVEMENT (PAID AS COMMON EXCAVATION)
- REMOVING CURB & GUTTER
- REMOVING TREE OR SHRUBS (PAID FOR AS CLEARING AND GRUBBING)
- XXXXX SAWING PAVEMENT
- REMOVING POLE AND CONCRETE BASE
- REMOVING FENCE
- REMOVE & SALVAGE FENCE
- REMOVING SMALL CULVERT PIPES



2

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	REMOVALS - 1 OF 5	SHEET E

PRE_14

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\02 Title.dgn PLOT DATE : 6/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2

ATC TRANSMISSION - OVERHEAD

℄ WEST ACCESS

21

22

N

MATCHLINE SHEET 1

MATCHLINE SHEET 3

102

102+00

ROGERS TELECOM -COMMUNICATIONS

103

℄ BACK OF PLATFORM

104

104+00

105

106

106+00

CANADIAN PACIFIC RAILROAD

℄ TRACK 2

℄ TRACK 1

RELOCATE WHEEL CHAIR LIFT STORAGE, REMOVE CONCRETE SIDEWALK SLAB

WE ENERGIES - ELECTRIC

ROGERS TELECOM - COMMUNICATIONS

ROGERS TELECOM - COMMUNICATIONS

GMIA - ELECTRIC

REMOVE BOULDERS, TYP FIELD VERIFY LOCATIONS

WE ENERGIES - ELECTRIC

AMTRAK STATION

WISDOT - FIBER OPTIC

GMIA - COMMUNICATIONS

WISDOT - FIBER OPTIC

WE ENERGIES - ELECTRIC

GMIA - ELECTRIC

GMIA - COMMUNICATIONS

GMIA - GAS

MOVING SIGNS TYPE II "AUTHORIZED VEHICLES ONLY"

31

32

33

WISDOT - FIBER OPTIC

℄ ACCESS ROAD

GMIA - SANITARY SEWER

GMIA - WATER

GMIA - ELECTRIC

ACCESS ROAD

LEGEND

- REMOVING CONCRETE SIDEWALK
- REMOVING HMA PAVEMENT (PAID AS COMMON EXCAVATION)
- REMOVING CURB & GUTTER
- REMOVING TREE OR SHRUBS (PAID FOR AS CLEARING AND GRUBBING)
- XXXXX SAWING PAVEMENT
- REMOVING POLE AND CONCRETE BASE
- REMOVING FENCE
- REMOVE & SALVAGE FENCE
- REMOVING SMALL CULVERT PIPES

MATCHLINE SHEET 4

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	REMOVALS - 2 OF 5	SHEET E

2

LEGEND

- REMOVING CONCRETE SIDEWALK
- REMOVING HMA PAVEMENT (PAID AS COMMON EXCAVATION)
- REMOVING CURB & GUTTER
- REMOVING TREE OR SHRUBS (PAID FOR AS CLEARING AND GRUBBING)
- XXXXX SAWING PAVEMENT
- REMOVING POLE AND CONCRETE BASE
- REMOVING FENCE
- REMOVE & SALVAGE FENCE
- REMOVING SMALL CULVERT PIPES

N

MATCHLINE SHEET 2

107 108 108+00 109 110

℄ BACK OF PLATFORM

℄ TRACK 2
℄ TRACK 1

CANADIAN PACIFIC RAILROAD

ROGERS TELECOM - COMMUNICATIONS

GMIA - ELECTRIC

EXISTING GRADE CROSSING TO BE REMOVED (BY CP)

WISDOT - FIBER OPTIC

AIRPORT SPUR/STH 119

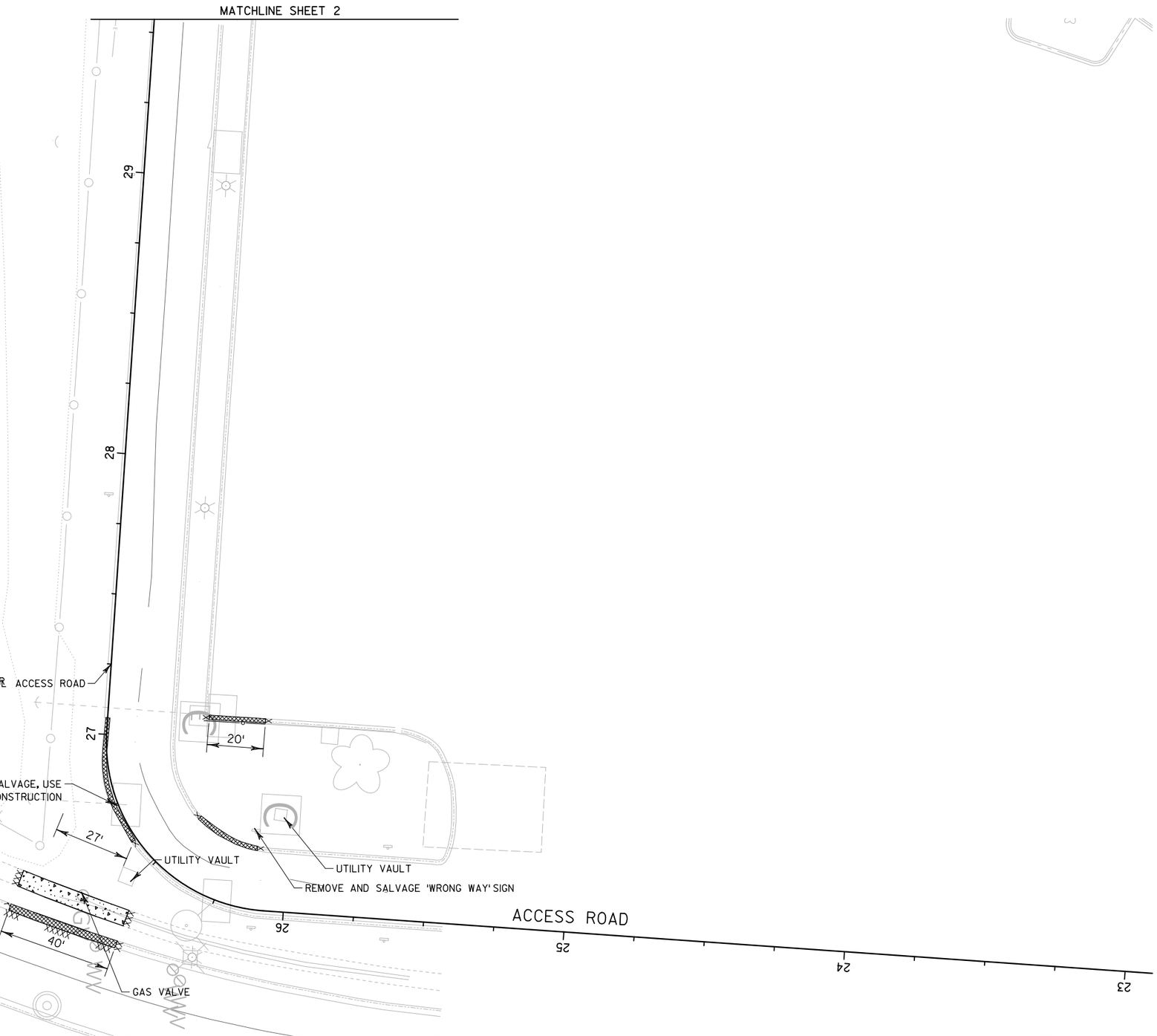
34

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	REMOVALS - 3 OF 5	SHEET E

PRE_16

LEGEND

- REMOVING CONCRETE SIDEWALK
- REMOVING HMA PAVEMENT (PAID AS COMMON EXCAVATION)
- REMOVING CURB & GUTTER
- REMOVING TREE OR SHRUBS (PAID FOR AS CLEARING AND GRUBBING)
- XXXXX SAWING PAVEMENT
- REMOVING POLE AND CONCRETE BASE
- REMOVING FENCE
- REMOVE & SALVAGE FENCE
- REMOVING SMALL CULVERT PIPES



2

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	REMOVALS - 4 OF 5	SHEET E

PRE_17

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\021104.dgn PLOT DATE : 12/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

2

2

N

ATC TRANSMISSION
- OVERHEAD

WETLAND BOUNDARY (TYP)

12 13 14 15 16 17

WEST ACCESS

℄ WEST ACCESS

EX ROW

MATCHLINE SHEET 1

ROGERS TELECOM
-COMMUNICATIONS

98+00

℄ TRACK 2

℄ TRACK 1

CANADIAN PACIFIC RAILROAD

ROGERS TELECOM - COMMUNICATIONS

LEGEND

- REMOVING CONCRETE SIDEWALK
- REMOVING HMA PAVEMENT (PAID AS COMMON EXCAVATION)
- REMOVING CURB & GUTTER
- REMOVING TREE OR SHRUBS (PAID FOR AS CLEARING AND GRUBBING)
- XXXXX SAWING PAVEMENT
- REMOVING POLE AND CONCRETE BASE
- REMOVING FENCE
- REMOVE & SALVAGE FENCE
- REMOVING SMALL CULVERT PIPES

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	REMOVALS: WEST ACCESS - 5 OF 5	SHEET E

PRE_18

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

ATC TRANSMISSION - OVERHEAD

ATC TRANSMISSION - OVERHEAD

WEST ACCESS

℄ WEST ACCESS

AREA OF SAFE REFUGE- 6'X6'

EXISTING FENCE

EX ROW

CONCRETE PLATFORM

5'

WETLAND BOUNDARY (TYP)

PLE

STA 100+00.00, 5.33' RT

56'

STA 100+35.85, 8.83' RT

800' (PLATFORM)

500' (CANOPY)

ROGERS TELECOM - COMMUNICATIONS

℄ BACK OF PLATFORM

12

NEW CANOPY

98+00

100+00

PLE

CANADIAN PACIFIC RAILROAD

INTERTRACK FENCE (BY CONTRACTOR)

℄ TRACK 2

℄ TRACK 1

MATCHLINE SHEET 2

EXISTING PLATFORM

EXISTING CANOPY

ROGERS TELECOM - COMMUNICATIONS

WE ENERGIES - ELECTRIC

EX ROW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS - 1 OF 4	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan_021201.dgn Updated: 4/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

WISDOT/CADDS SHEET 42

2

WEST ACCESS

℄ WEST ACCESS

21

22

EX ROW

TLE

ATC TRANSMISSION - OVERHEAD

N

WEST TOWER

27.6'

11+00

ROGERS TELECOM -COMMUNICATIONS

800' (PLATFORM)
500' (CANOPY)

STA 105+35.85, 8.83' RT

MATCHLINE SHEET 1

12'

102

103

25.2'

104

℄ BACK OF PLATFORM

105

106

102+00

102+00

106+00

PLE

N3°16'20"W

℄ TRACK 2

℄ TRACK 1

PEDESTRIAN BRIDGE

PLE

11+00

MATCHLINE SHEET 3

CANADIAN PACIFIC RAILROAD

INTERTRACK FENCE
(BY CONTRACTOR)

EXISTING PLATFORM

WE ENERGIES - ELECTRIC
ROGERS TELECOM - COMMUNICATIONS

TRANSFORMER AND
GENERATOR AREAS

ROGERS TELECOM - COMMUNICATIONS

GMIA - ELECTRIC

EXISTING CANOPY

EAST TOWER

11+41.33

BASE AGGREGATE DENSE 1 1/4-INCH
REGRADE DRIVEWAY TO MATCH EXISTING AFTER
STORM SEWER WORK & FINAL PAVEMENT

RELOCATED WHEEL CHAIR LIFT
STORAGE, SEE STRUCTURE DETAILS

WE ENERGIES - ELECTRIC

EXISTING AMTRAK
STATION BUILDING

℄ SIDEWALK

AMTRAK
STATION

10' (TYP)

5

10'

WISDOT - FIBER OPTIC

GMIA - COMMUNICATIONS

WETLAND BOUNDARY (TYP)

MARKING PARKING STALL PAINT (TYP)

EX ROW

20'

25'

24'

10'

WISDOT - FIBER OPTIC

WE ENERGIES - ELECTRIC

GMIA - ELECTRIC

GMIA - COMMUNICATIONS

GMIA - GAS

20'R

℄ ACCESS ROAD

31

32

33

WISDOT - FIBER OPTIC

MOVING SIGNS TYPE II
"AUTHORIZED VEHICLES ONLY"

GMIA - SANITARY SEWER

30

GMIA - WATER

GMIA - ELECTRIC

ACCESS ROAD

30'

℄ PARKING

MATCH
EXISTING
CURB
(TYP)

STA 30+62,
22' RT

STA 30+62,
36' RT

MATCHLINE SHEET 4

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS - 2 OF 4	SHEET E

PRE_20

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan002120.dgn Modified: 2/1/2022

PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

N

EX ROW

EXISTING FENCE

EXISTING BRIDGE RETAINING WALL

PLE

800' (PLATFORM)

℄ BACK OF PLATFORM

STA 108+00.00
5.32' RT

AREA OF SAFE REFUGE - 6'X6'

107

108

109

110

12'

5'

108+00

56'

PLE

ROGERS TELECOM - COMMUNICATIONS

℄ TRACK 2
℄ TRACK 1

CANADIAN PACIFIC RAILROAD

MATCHLINE SHEET 2

EMERGENCY CROSSING (BY CP)

INTERTRACK FENCE (BY CONTRACTOR)

ROGERS TELECOM - COMMUNICATIONS

GMIA - ELECTRIC

EXISTING BRIDGE RETAINING WALL

EXISTING FENCE

AIRPORT SPUR/STH 119

WETLAND BOUNDARY (TYP)

WISDOT - FIBER OPTIC

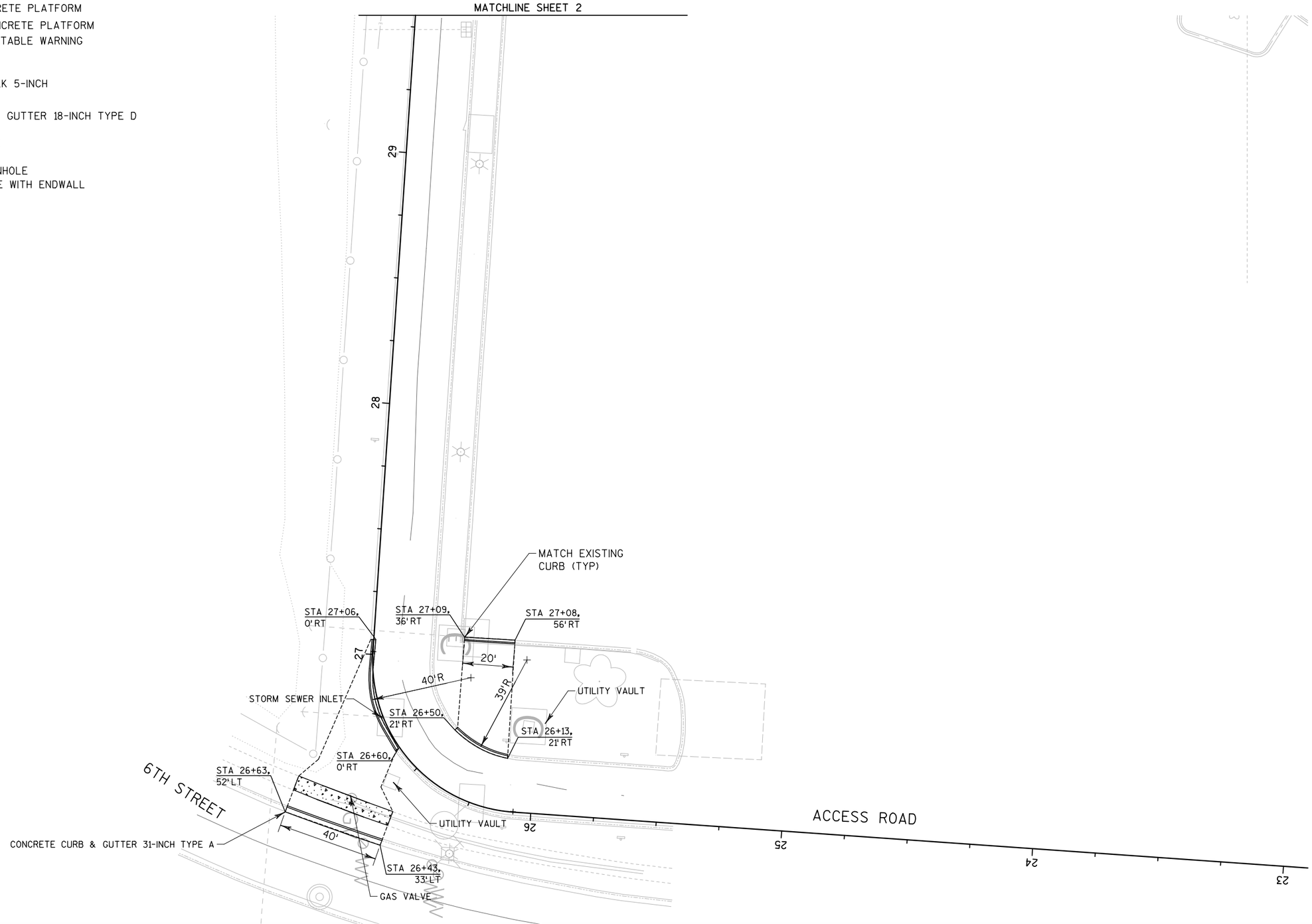
EX ROW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS - 3 OF 4	SHEET E

PRE_21

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL



2

N

13TH STREET

ACCESS THROUGH
EXISTING GATE 3T

GUY POLE

EX PL

1

2

14

3

WEST ACCESS

4

5

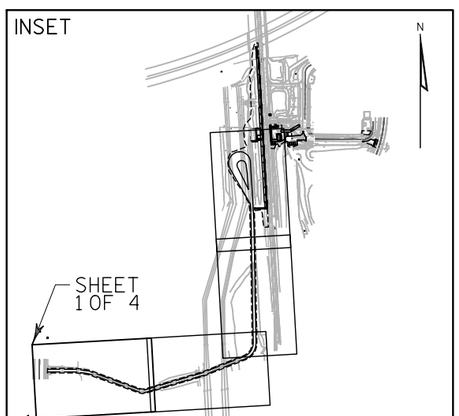
6

℄ WEST ACCESS

MATCHLINE SHEET 2

6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
CONSTRUCTION ACCESS TO REMAIN AFTER
CONSTRUCTION FOR EMERGENCY AND
MAINTENANCE ACCESS

INSET



LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

NOTE:
FOLLOW EXISTING GRAVEL ACCESS ROAD FROM
13TH STREET TO APPROXIMATELY STATION 11+00

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS: WEST ACCESS - 1 OF 4	SHEET E

PRE_23

2

N

ATC TRANSMISSION - OVERHEAD

ATC TRANSMISSION - OVERHEAD

MATCHLINE SHEET 3

WETLAND BOUNDARY (TYP)

EX PL

EXISTING RUNWAY LIGHTING (TYP)

6-INCH BASE AGGREGATE DENSE 1 1/4-INCH CONSTRUCTION ACCESS TO REMAIN AFTER CONSTRUCTION FOR EMERGENCY AND MAINTENANCE ACCESS

WEST ACCESS

14' 9

11

10

8

7

℄ WEST ACCESS

R=90'

MATCHLINE SHEET 1

INSET

N

SHEET 2 OF 4

NOTE:
FOLLOW EXISTING GRAVEL ACCESS ROAD FROM 13TH STREET TO APPROXIMATELY STATION 11+00

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS: WEST ACCESS - 2 OF 4	SHEET E

PRE_24

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\021204.dgn Updated: Apr 20 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

N

ATC TRANSMISSION
- OVERHEAD

WETLAND BOUNDARY (TYP)

6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
CONSTRUCTION ACCESS TO REMAIN AFTER
CONSTRUCTION FOR EMERGENCY AND
MAINTENANCE ACCESS

MATCHLINE SHEET 2

12 13 WEST ACCESS 14 15 16 14' 17

℄ WEST ACCESS

EX ROW

MATCHLINE SHEET 4

PLE

98+00

℄ TRACK 2

℄ TRACK 1

CANADIAN PACIFIC RAILROAD

INSET

N

SHEET
3 OF 4

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

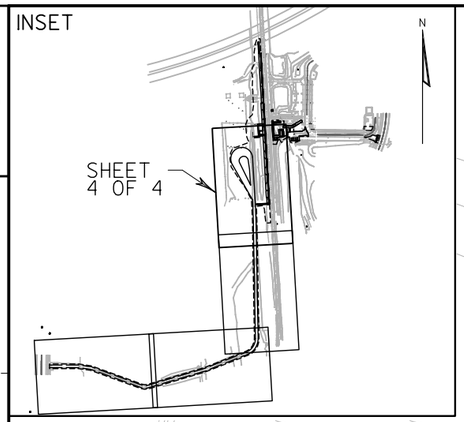
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS: WEST ACCESS - 3 OF 4	SHEET E

PRE_25

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\02127.dgn Updated: 4/20/2022
PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.
WISDOT/CADDS SHEET 42

2

INSET



N

ATC TRANSMISSION
- OVERHEAD

ATC TRANSMISSION
- OVERHEAD

WETLAND
BOUNDARY (TYP)

6-INCH BASE AGGREGATE DENSE 1 1/4-INCH
CONSTRUCTION ACCESS TO REMAIN AFTER
CONSTRUCTION FOR EMERGENCY AND
MAINTENANCE ACCESS

R=60'

MATCHLINE SHEET 3

18 WEST ACCESS 14' 19 20 ℄ ACCESS ROAD 21 22 23 24 25

EX ROW

WEST TOWER

10+00

ROGERS TELECOM
-COMMUNICATIONS

99 100 101 102 103 ℄ BACK OF PLATFORM 104

100 00 102+00 104+00

PLE

℄ TRACK 2

℄ TRACK 1

PLE

CANADIAN PACIFIC RAILROAD

EAST TOWER

11+00

WE ENERGIES - ELECTRIC
ROGERS TELECOM - COMMUNICATIONS

11+41.33

WE ENERGIES - ELECTRIC

LEGEND

- REINFORCED CONCRETE PLATFORM
- CANOPY OVER CONCRETE PLATFORM
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- SOD LAWN
- CONCRETE SIDEWALK 5-INCH
- HMA PAVEMENT
- CONCRETE CURB & GUTTER 18-INCH TYPE D
- CHAIN LINK FENCE
- INTERTRACK FENCE
- SLOPE INTERCEPT
- STORM SEWER MANHOLE
- STORM SEWER PIPE WITH ENDWALL

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PLAN DETAILS: WEST ACCESS - 4 OF 4	SHEET E

PRE_26

2

N

WEST TOWER

729.68
103+56.19, 46.5'LT

729.78

5'

2.0%

729.78
103+63.08, 25.2'LT
FACE OF BUILDING AT SIDEWALK

729.78

729.78

729.56
103+56.19, 20.2'LT

729.68
103+63.08, 20.2'LT

729.78
103+89.20, 25.2'LT

729.68
103+89.20, 20.2'LT

729.78
104+25.83, 25.2'LT

729.68
104+25.83, 20.2'LT

0.0%

2.0%

2.0%

2.0%

0.6%

10.2'

1.6%

7.7'

25.2'

3.5%

729.62
103+63.08, 10.0'LT

729.51
103+89.20, 10.0'LT

0.51%

729.33
104+25.83, 10.0'LT

2.8%

6.5'

10'

2.0%

36.6'

1.0%

729.90
103+63.08, 0'LT
BACK OF PLATFORM

729.71
103+89.20, 0'LT

729.43
104+25.83, 0'LT

℄ BACK OF PLATFORM

0.7%

104

0.7%

1%

12'

1%

730.02
103+63.08, 12.0'RT
TOP OF PLATFORM

729.83
103+89.20, 12.0'RT

729.55
104+25.83, 12.0'RT

℄ TRACK 2

PEDESTRIAN BRIDGE

℄ TRACK 1

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	GRADING PLAN: WEST TOWER SIDEWALK ELEVATIONS	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\021301.dgn Updated: 4/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 10.0000 sf / in.

WISDOT/CADDS SHEET 42

℄ TRACK 1

PEDESTRIAN BRIDGE

N

730.03
FACE OF BUILDING AT SIDEWALK

730.05
EX. BACK OF PLATFORM (BOP)

729.97
EX. BOP

729.91
EX. BOP

729.65
EX. BOP

729.48
EX. BOP

729.52
EX. BOP

729.24

729.95

729.98

729.78

729.61

729.51

729.47

729.06

729.41

729.20

729.57

729.65

728.76

730.78
EX. BUILDING ELEVATION

727.93 EX. ELEVATION
ACCESS ROAD

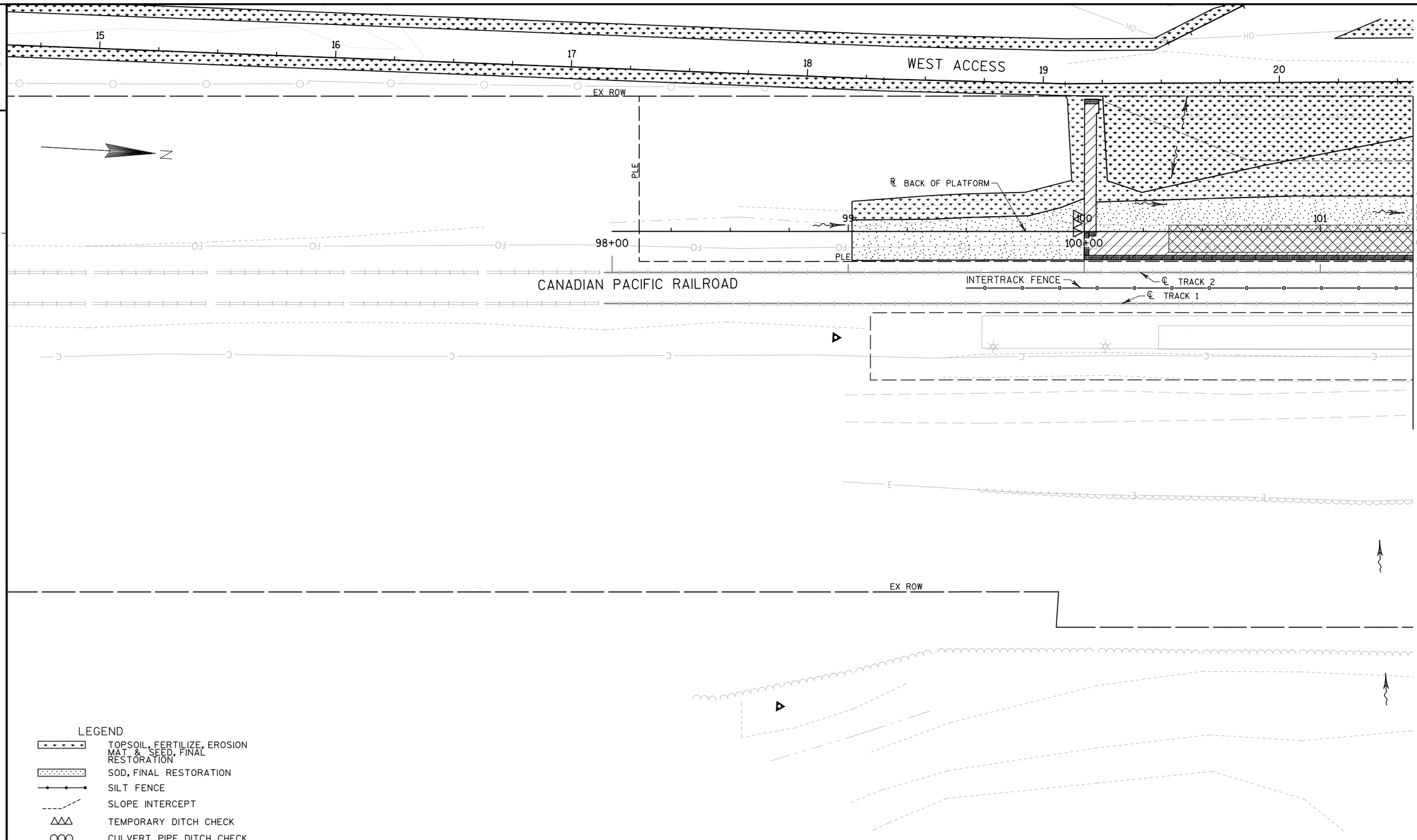
728.17

728.27

728.72

729.78

2



LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO:1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL - 1 OF 4	SHEET E

2

WEST ACCESS

21

22

HO

TLE

EX ROW

MATCHLINE SHEET 1

MATCHLINE SHEET 3

102

103

104

105

106

102+00

104+00

106+00

12.0'

PLE

℄ BACK OF PLATFORM

N3°16'20"W

℄ TRACK 2

℄ TRACK 1

INTERTRACK FENCE

CANADIAN PACIFIC RAILROAD

AMTRAK STATION

EX ROW

31

32

33

℄ ACCESS ROAD

ACCESS ROAD

LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL - 2 OF 4	SHEET E

PRE_30

2

2

LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

N

EX ROW

PLE

℄ BACK OF PLATFORM

107

108

108+00

109

110

PLE

INTERTRACK FENCE

℄ TRACK 2
℄ TRACK 1

CANADIAN PACIFIC RAILROAD

MATCHLINE SHEET 2

AIRPORT SPUR/STH 119

EX ROW

A

34

PROJECT NO:1000-57-70	HWY:N/A	COUNTY:MILWAUKEE	EROSION CONTROL - 3 OF 4	SHEET E

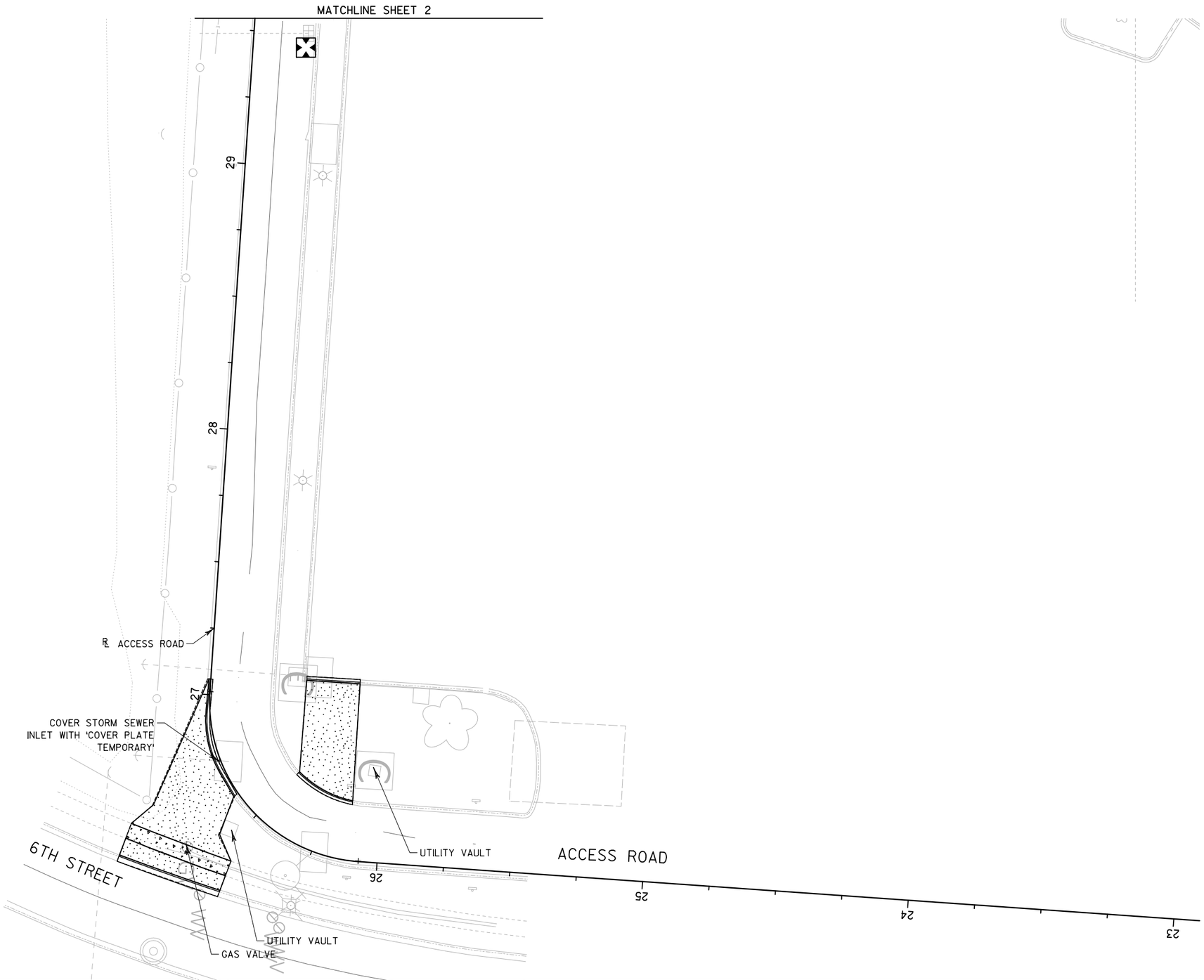
FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\02200_EC.dgn PLOT DATE : 4/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

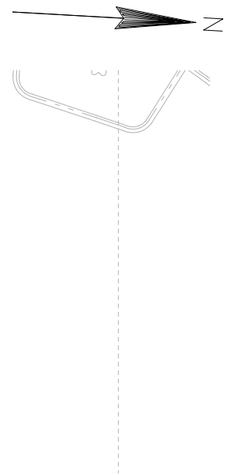
PRE_31

WISDOT/CADDS SHEET 42

LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW





2

N

13TH STREET

GUY POLE

EX PL

1

2

14

3

4

℄ WEST ACCESS

WEST ACCESS

5

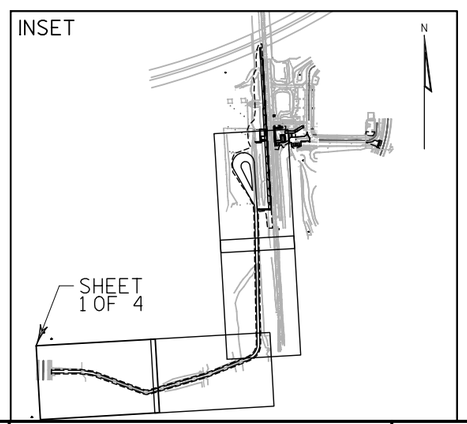
6

MATCHLINE SHEET 2

LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

INSET



PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL: WEST ACCESS - 1 OF 4	SHEET E

PRE_33

2

2

N

ATC TRANSMISSION
- OVERHEAD

ATC TRANSMISSION
- OVERHEAD

MATCHLINE SHEET 3

WETLAND
BOUNDARY
(TYP)

EX PL

11

10

9

14'

℄ WEST ACCESS

WEST ACCESS

8

7

MATCHLINE SHEET 1

INSET

N

SHEET
2 OF 4

LEGEND

- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL: WEST ACCESS - 2 OF 4	SHEET E

PRE_34

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\022004.dgn PLOT DATE : Dec 20 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

N

ATC TRANSMISSION
- OVERHEAD

WETLAND BOUNDARY (TYP)

SLOPE INTERCEPTS NEAR ACCESS
ROAD ARE APPROXIMATE -
WAITING ON ADDITIONAL SURVEY

MATCHLINE SHEET 2

12 13 WEST ACCESS 14 15 16 14' 17

℄ WEST ACCESS

EX ROW

MATCHLINE SHEET 4

98+00

℄ TRACK 2

℄ TRACK 1

CANADIAN PACIFIC RAILROAD

INSET

SHEET
3 OF 4

N

LEGEND

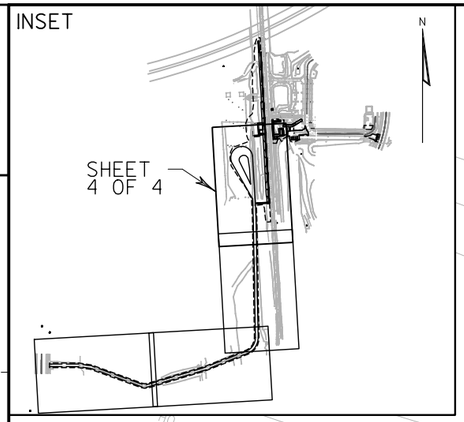
- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL: WEST ACCESS - 3 OF 4	SHEET E

PRE_35

2

INSET



N

ATC TRANSMISSION
- OVERHEAD

SLOPE INTERCEPTS NEAR ACCESS
ROAD ARE APPROXIMATE -
WAITING ON ADDITIONAL SURVEY

ATC TRANSMISSION
- OVERHEAD

WETLAND BOUNDARY (TYP)

MATCHLINE SHEET 3

EX ROW

℄ WEST ACCESS

WEST ACCESS

WEST TOWER

10+00

11+00

11+41.33

EAST TOWER

℄ BACK OF PLATFORM

℄ TRACK 2

℄ TRACK 1

ROGERS TELECOM
-COMMUNICATIONS

CANADIAN PACIFIC RAILROAD

WE ENERGIES - ELECTRIC

ROGERS TELECOM - COMMUNICATIONS

WE ENERGIES - ELECTRIC

LEGEND

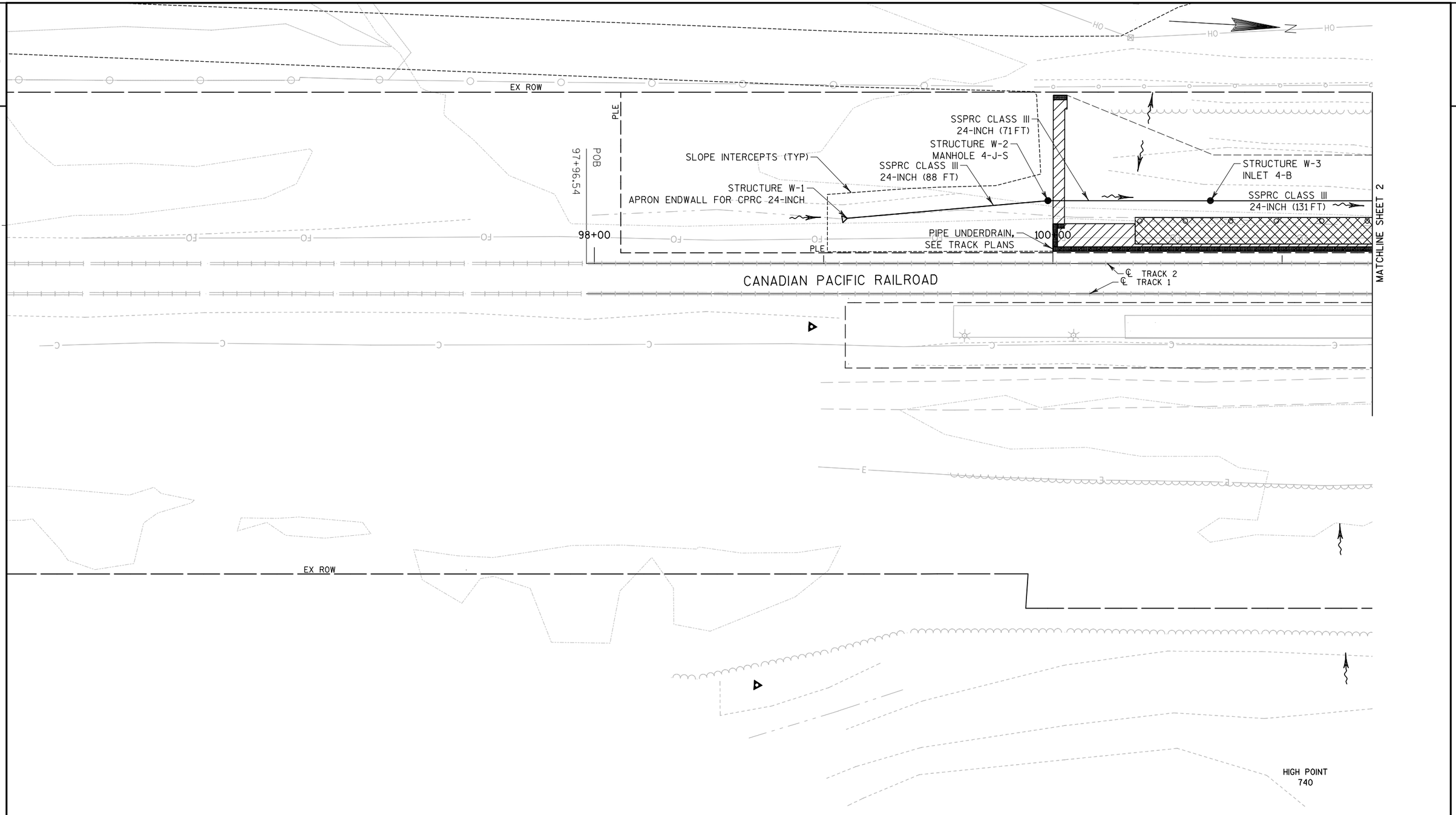
- TOPSOIL, FERTILIZE, EROSION MAT & SEED, FINAL RESTORATION
- SOD, FINAL RESTORATION
- SILT FENCE
- SLOPE INTERCEPT
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- SURFACE WATER FLOW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EROSION CONTROL: WEST ACCESS - 4 OF 4	SHEET E

PRE_36

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\022008.dgn Dec 20 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2



PROJECT NO:1000-57-70	HWY:N/A	COUNTY:MILWAUKEE	DRAINAGE	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlanR022501.dgn PLOT DATE : Apr 28/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

2

2

MATCHLINE SHEET 1

MATCHLINE SHEET 3

PIPE UNDERDRAIN 8-INCH, CONNECT TO STORM SEWER (65 FT)

PIPE UNDERDRAIN 8-INCH, CONNECT TO STORM SEWER (58 FT)

SLOPE INTERCEPTS (TYP)

TLE

EX ROW

EXISTING PIPE

STRUCTURE W-6 INLET 4-B

SSPRC CLASS III 24-INCH (68 FT)

SSPRC CLASS III 24-INCH (67 FT)

STRUCTURE W-4 INLET 4-B

SSPRC CLASS III 24-INCH (32 FT)

STRUCTURE W-5 INLET 4-B

STRUCTURE W-7 INLET 4-B

STRUCTURE W-8 INLET 4-B

STRUCTURE W-9 INLET 4-B

SSPRC CLASS III 24-INCH (131 FT)

SSPRC CLASS III 24-INCH (150 FT)

SSPRC CLASS III 24-INCH (150 FT)

SSPRC CLASS III 24-INCH (67 FT)

102

103

104

105

106

102+00

103+00

104+00

105+00

106+00

℄ BACK OF PLATFORM

PLE

PIPE UNDERDRAIN, SEE TRACK PLANS

CANADIAN PACIFIC RAILROAD

N3°16'20"W

℄ TRACK 2

℄ TRACK 1

STRUCTURE E-3 INLET 4-B

SSPRC CLASS III 24-INCH (88 FT)

STRUCTURE E-4 INLET 4-B

SSPRC CLASS III 24-INCH (20 FT)

SSPRC CLASS III 24-INCH (33 FT)

SSPRC CLASS III 24-INCH (25 FT)

STRUCTURE E-1 APRON ENDWALL FOR CPRC 24-INCH

EXISTING PIPE 24" RCP

EXISTING DETENTION POND

STRUCTURE E-5 INLET 4-B

EXISTING PIPE

STRUCTURE E-2 INLET 4-B

EXISTING DITCH

AMTRAK STATION

EX ROW

30

31

32

33

℄ ACCESS ROAD

ACCESS ROAD

EXISTING PIPE

EXISTING INLET

EXISTING PIPE 12" RCP

EXISTING INLET

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	DRAINAGE	SHEET E

PRE_38

2

2

N

EX ROW

SLOPE INTERCEPTS

EXISTING PIPE

STRUCTURE W-10
INLET 4-BW

STRUCTURE W-11
APRON ENDWALL FOR CPRC 24-INCH

SSPRC CLASS III
24-INCH (67 FT)

SSPRC CLASS III
24-INCH (67 FT)

MATCHLINE SHEET 2

108+00

PLE

PLE

109+89.94

POE

EXISTING DITCH

TRACK 2
TRACK 1

CANADIAN PACIFIC RAILROAD

AIRPORT SPUR/STH 119

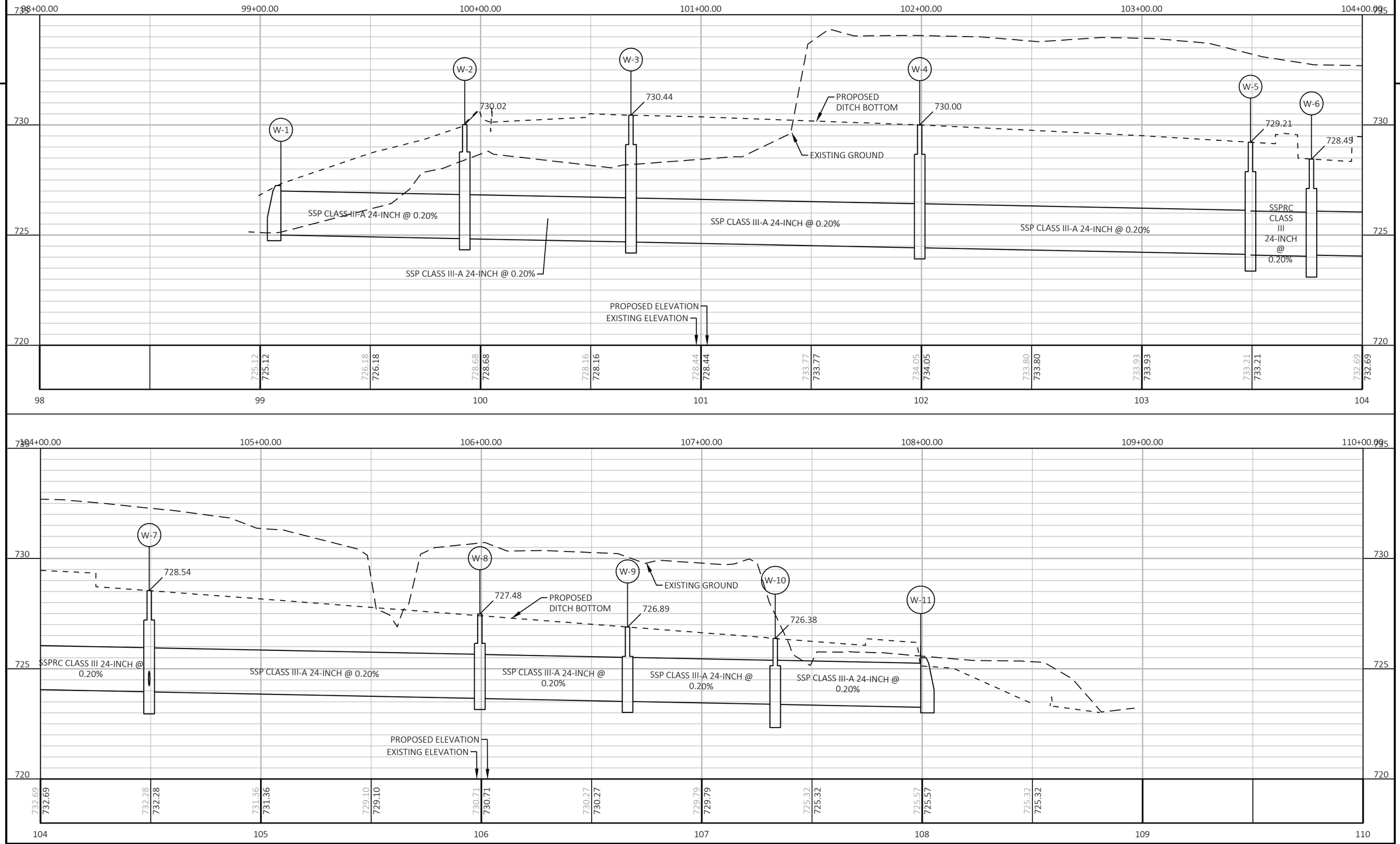
EX ROW

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	DRAINAGE	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\D27503_E.dgn 4/26/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 40.0000 sf / in.

PRE_39

WISDOT/CADDS SHEET 42



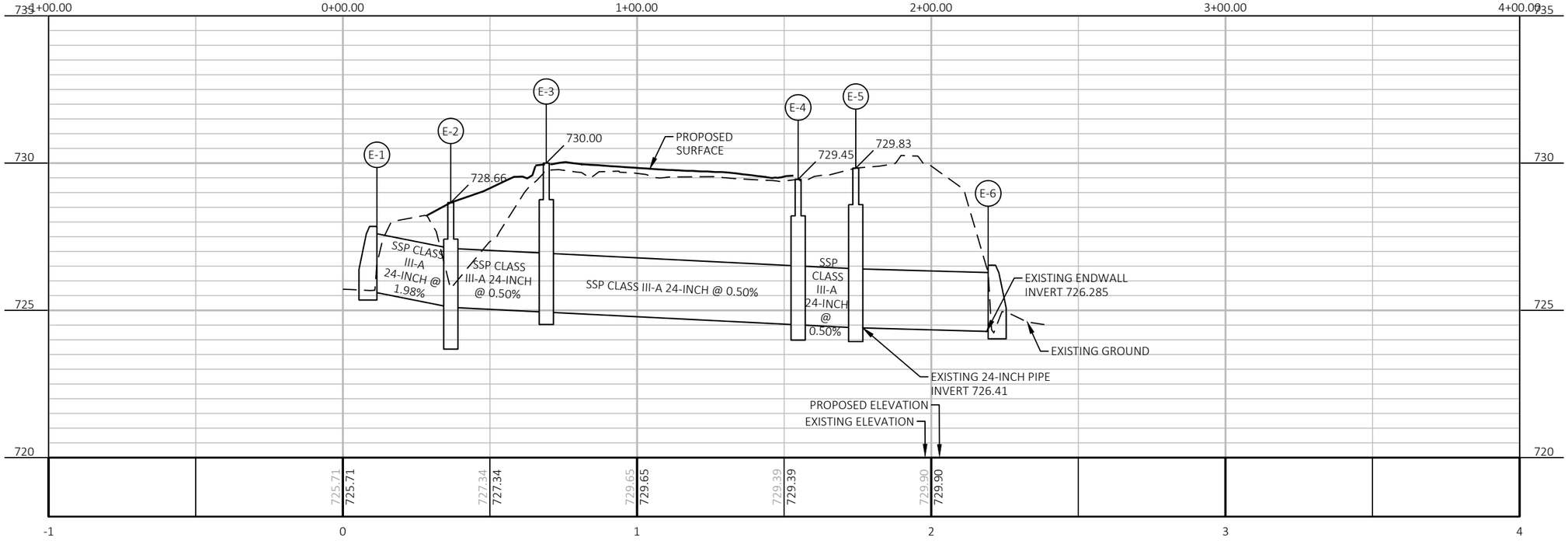
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PROFILES WESTERN DITCH STORM SEWER	SHEET E

PRE_40

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\050302_PR.DWG
LAYOUT NAME - WEST DITCH

PLOT DATE : 1/28/2022 11:12 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41



2

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PROFILES EASTERN STORM SEWER	SHEET E

PRE_41

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\050302_PR.DWG
LAYOUT NAME - SS 1 IN 40 FT (3)
PLOT DATE : 1/26/2022 7:36 PM
PLOT BY : LANCELLE, JESSICA
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 41

2

2

N

S 13TH STREET

STH 119 (AIRPORT SPUR)

TRIPLE TRANSPORT

13TH STREET ACCESS THROUGH MILWAUKEE COUNTY PARCEL GATE 3T

ROZ AUTO SALVAGE

C.W. PURPERO INC.

FOLLOW EXISTING ACCESS ROAD ALIGNMENT FROM 13TH STREET TO STA 11+00, NEW ACCESS ROAD ALIGNMENT FROM STA 11+00 NORTH TO WEST TOWER

14'

AVOID RUNWAY LIGHTING, NO STOPPING OR STANDING

WEST SIDE MATERIAL/EQUIPMENT STAGING/LAYDOWN AREAS

BEGIN PROJECT STA. 100+00.00

WETLAND BOUNDARIES (TYP)

APPROXIMATE CONSTRUCTION LIMITS

PEDESTRIAN BRIDGE

END PROJECT STA. 108+00.00

EXISTING ROW (TYP)

WEST TOWER

TO CHICAGO

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

TO MILWAUKEE

CONCRETE PLATFORM

EAST TOWER

AMTRAK STATION

AMTRAK PARKING

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW: WEST ACCESS FROM 13TH STREET	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\025004.dgn Modified: 12/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 200.0000 sf / in.

PRE_42

WISDOT/CADDS SHEET 42

2

WETLAND BOUNDARIES (TYP)

WEST SIDE MATERIAL/EQUIPMENT STAGING/LAYDOWN AREAS

EXISTING ROW (TYP)

END PROJECT STA. 108+00.00

BEGIN PROJECT STA. 100+00.00

WEST TOWER

PEDESTRIAN BRIDGE

CONCRETE PLATFORM

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

EAST TOWER

ACCESS CONTRACTOR AREA THROUGH TYPE III BARRICADES

AMTRAK STATION

EAST SIDE MATERIAL/EQUIPMENT STAGING/LAYDOWN AREAS

S 6TH STREET

TEMPORARY ACCESS FOR PASSENGER VEHICLES, REMOVE CURB AND ADD TEMPORARY ASPHALT

CONTRACTOR ONLY ACCESS

AMTRAK PARKING

TEMPORARY CONCRETE BARRIER

PUBLIC VEHICLE AND CONTRACTOR ACCESS ALONG NORTH AND WEST SIDE OF PARKING LOT

TEMPORARY ACCESS TO 6TH STREET

AIRPORT PARKING

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL OVERVIEW: EAST ACCESS FROM 6TH STREET	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan_1000057.dgn 10/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.

WISDOT/CADDS SHEET 42

2

WEST SIDE MATERIAL/EQUIPMENT STAGING/LAYDOWN AREAS - SEE ACCESS PLANS FOR FULL LIMITS

WETLAND BOUNDARIES (TYP)

EX R/W

EX R/W

N

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

EX R/W

ACCESS CONTRACTOR AREA THROUGH TYPE III BARRICADES

AMTRAK STATION

MATERIAL/EQUIPMENT STAGING/LAYDOWN AREAS (TYP)

AIRPORT SPUR/STH 119

WO1-6
48" X 24"

TEMPORARY ACCESS FOR PASSENGER VEHICLES, REMOVE CURB AND ADD TEMPORARY ASPHALT

DROP OFF TRAFFIC TEMPORARY ROUTE

AMTRAK PARKING

CONTRACTOR ONLY ACCESS

CONSTRUCTION TRUCKS ONLY
RID-72L

S 6TH STREET

TEMPORARY ACCESS TO 6TH STREET, REMOVE CURB, COVER INLET, AND ADD TEMPORARY ASPHALT

NOTES: STAGE 1
-MOBILIZE
-CONSTRUCT CONTRACTOR ACCESS FROM 13TH STREET
-CONSTRUCT CONTRACTOR ACCESS FROM 6TH STREET THROUGH PARKING AREA
-CLEAR & GRUB SITE, COMPLETE FENCE REMOVALS, PREPARE SITE FOR CONSTRUCTION
-START TEMPORARY STORM SEWER AND DRAINAGE
-MAINTAIN PARKING FOR AUTHORIZED PERSONNEL
-MAINTAIN ACCESS FOR RAILROAD VEHICLES ALONG GRAVEL ROAD

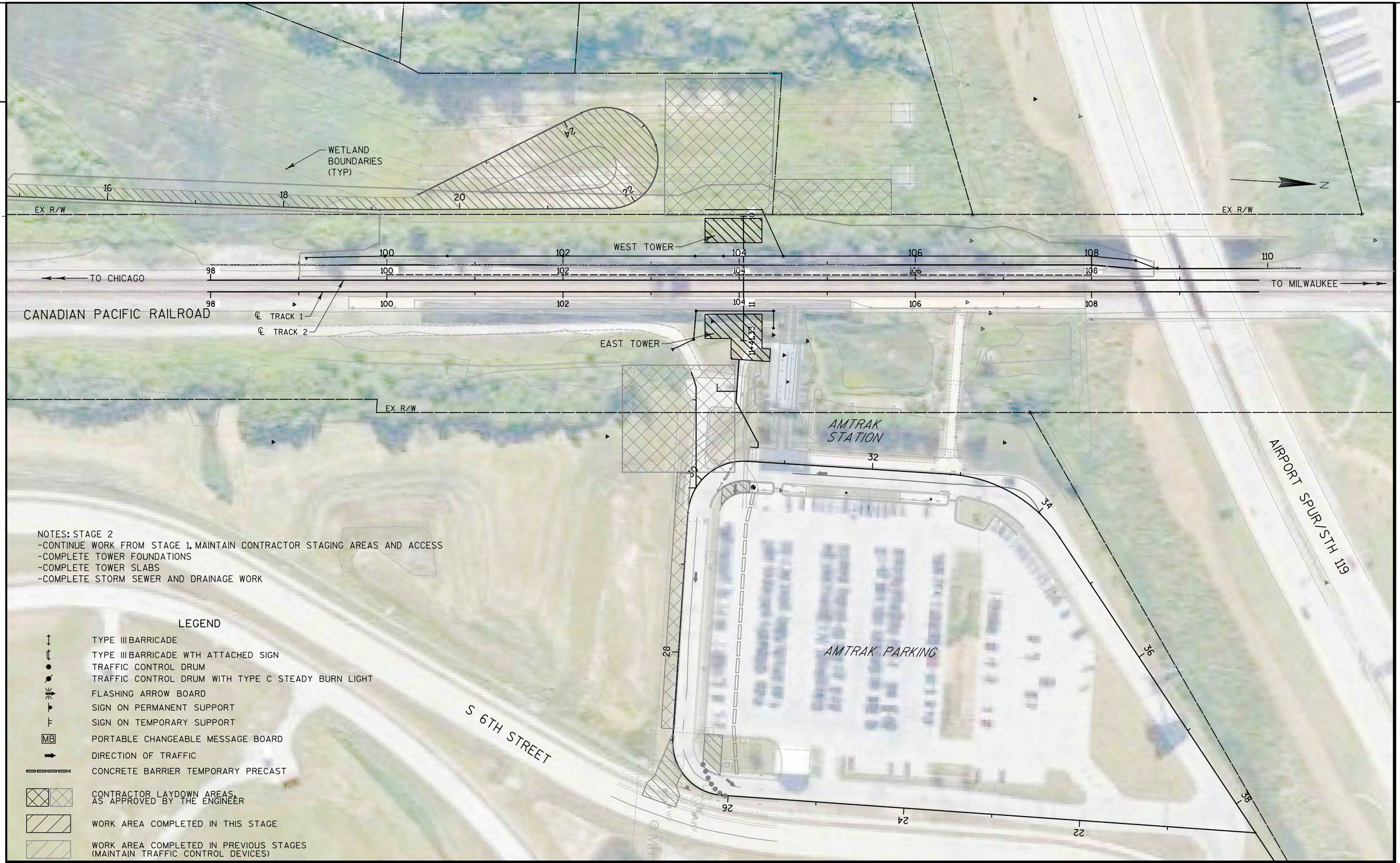
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 1	SHEET E

PRE_44

2



NOTES: STAGE 2
-CONTINUE WORK FROM STAGE 1, MAINTAIN CONTRACTOR STAGING AREAS AND ACCESS
-COMPLETE TOWER FOUNDATIONS
-COMPLETE TOWER SLABS
-COMPLETE STORM SEWER AND DRAINAGE WORK

LEGEND

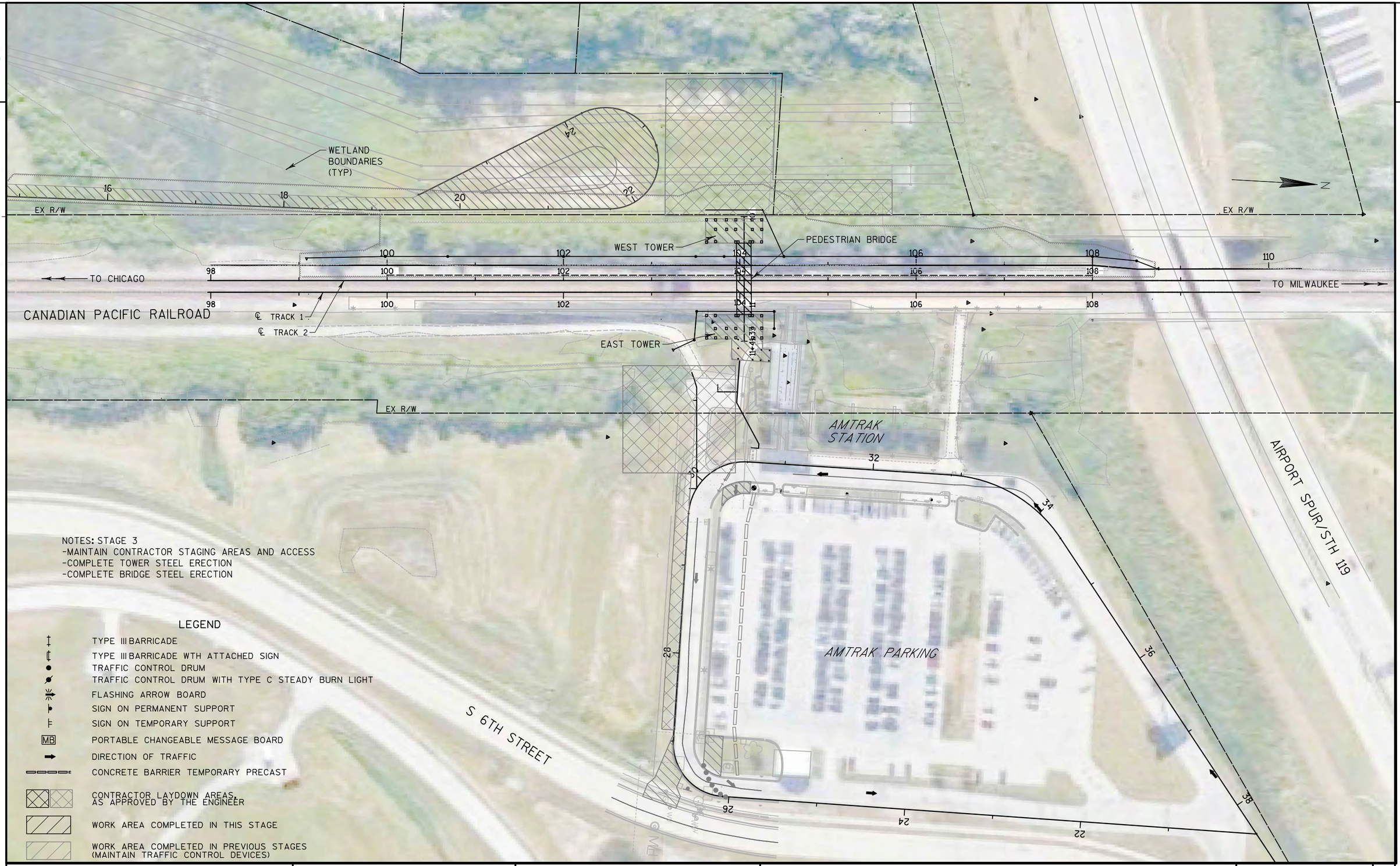
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 2	SHEET E

PRE_45

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan_025002_S2.dgn 2/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.

2



NOTES: STAGE 3
-MAINTAIN CONTRACTOR STAGING AREAS AND ACCESS
-COMPLETE TOWER STEEL ERECTION
-COMPLETE BRIDGE STEEL ERECTION

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 3	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\025003_53.dgn 10/20/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 42

2

WETLAND BOUNDARIES (TYP)

EX R/W

EX R/W

N

WEST TOWER

PEDESTRIAN BRIDGE

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

EAST TOWER

EX R/W

AMTRAK STATION

AMTRAK PARKING

AIRPORT SPUR/STH 119

S 6TH STREET

NOTES: STAGE 4
-MAINTAIN CONTRACTOR STAGING AREAS AND ACCESS
-COMPLETE TOWER CONCRETE FLOOR AND STAIR WORK
-COMPLETE PLATFORM FOUNDATIONS
-COMPLETE CANOPY FOUNDATIONS
-COMPLETE PLATFORM CONCRETE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 4	SHEET E

PRE_47

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\025004.dgn 4:25/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.

2

2

WETLAND BOUNDARIES (TYP)

EX R/W

EX R/W

WEST TOWER

PEDESTRIAN BRIDGE

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

EAST TOWER

EX R/W

AMTRAK STATION

AMTRAK PARKING

AIRPORT SPUR/STH 119

S 6TH STREET

NOTES: STAGE 5
-MAINTAIN CONTRACTOR STAGING AREAS AND ACCESS
-COMPLETE TOWER GLASS, BRICK, AND VENEER WORK ON EXTERIORS
-COMPLETE PLATFORM CANOPY
-COMPLETE FINAL GRADING AROUND BUILDINGS

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 5	SHEET E

PRE_48

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\025005.15.dgn 4/25/2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.

2

WEST ACCESS ROAD TO REMAIN AFTER PROJECT COMPLETION

WETLAND BOUNDARIES (TYP)

EX R/W

EX R/W

WEST TOWER

PEDESTRIAN BRIDGE

TO CHICAGO

TO MILWAUKEE

CANADIAN PACIFIC RAILROAD

℄ TRACK 1

℄ TRACK 2

EAST TOWER

EX R/W

AMTRAK STATION

AMTRAK PARKING

AIRPORT SPUR/STH 119

S 6TH STREET

N

NOTES: STAGE 6
-COMPLETE PERSONNEL PARKING AREA
-COMPLETE SIDEWALK CONNECTIONS TO BUILDINGS
-REMOVE TEMPORARY CONTRACTOR ACCESS TO 6TH STREET AND RESTORE AREAS
-CLEAN UP CONTRACTOR ACCESS TO 13TH STREET, ACCESS ROAD TO REMAIN
-COMPLETE FINAL LANDSCAPING
-COMPLETE INTERIOR FINISHES

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- DIRECTION OF TRAFFIC
- CONCRETE BARRIER TEMPORARY PRECAST
- CONTRACTOR LAYDOWN AREAS, AS APPROVED BY THE ENGINEER
- WORK AREA COMPLETED IN THIS STAGE
- WORK AREA COMPLETED IN PREVIOUS STAGES (MAINTAIN TRAFFIC CONTROL DEVICES)

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	TRAFFIC CONTROL: STAGE 6	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\025004_E6.dgn PLOT DATE : Apr 25 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 42

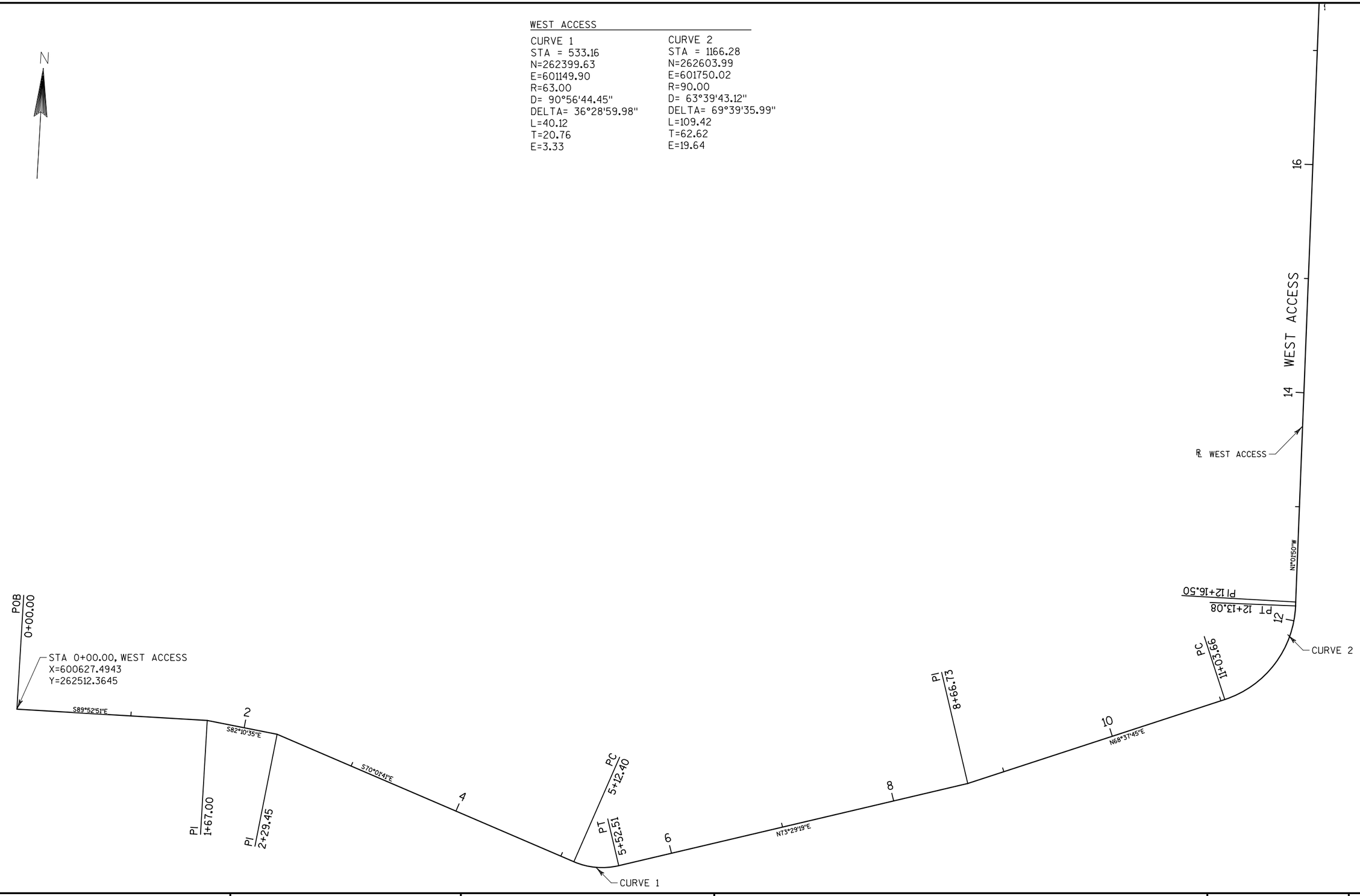
2

N

WEST ACCESS

CURVE 1
STA = 533.16
N=262399.63
E=601149.90
R=63.00
D= 90°56'44.45"
DELTA= 36°28'59.98"
L=40.12
T=20.76
E=3.33

CURVE 2
STA = 1166.28
N=262603.99
E=601750.02
R=90.00
D= 63°39'43.12"
DELTA= 69°39'35.99"
L=109.42
T=62.62
E=19.64



PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	ALIGNMENTS AND CONTROL POINTS - 1 OF 3	SHEET E

PRE_50

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\02720116.dgn Updated: Apr 27 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 80.0000 sf / in.

2

WEST ACCESS

CURVE 3	CURVE 4
STA = 2244.45	STA = 2345.10
N=263697.17	N=263646.32
E=601714.23	E=601577.19
R=55.00	R=60.00
D=104°10'26.92"	D= 95°29'34.68"
DELTA=106°45'12.37"	DELTA= 99°30'05.18"
L=102.48	L=104.20
T=73.99	T=70.88
E=37.20	E=32.86

N

STA 26+02.95, WEST ACCESS
X=601715.6010
Y=263405.2431

PI 18+32.46
PI 19+09.26
PI 20+50.14
PC 21+70.45
PC 22+74.22
PT 22+72.93
PI 23+45.10
PI 23+78.42
CURVE 3
CURVE 4
S29°51'41"E
N1°49'57"W
N3°36'03"W
N3°36'24"W
18
20
22
24
WEST ACCESS
℄ WEST ACCESS

STA 98+00, BACK OF PLATFORM
X=601808.7266
Y=263174.6193

POB 97+96.54
POB 98+00.00
POE 25+85.52
℄ BACK OF PLATFORM
℄ TRACK 2
℄ TRACK 1
N3°16'16"W
N3°16'20"W
98
100
102
104
106
108

STA 10+00 PEDESTRIAN BRIDGE
X=601719.0567
Y=263775.3019

STA 10+55.24 = STA 104+04.85
STA 10+72.57 = STA 104+04.90
STA 10+85.75= STA 104+04.91
POB 10+00.00
PI 22+44.45
10
℄ PEDESTRIAN BRIDGE

PI 108+56.00
PI 108+77.71
POE 109+89.94
N86°41'41"E

CANADIAN PACIFIC RAILROAD

STA 98+00, TRACK 2
X=601826.2395
Y=263172.1129

STA 98+00, TRACK 1
X=601839.3851
Y=263172.8644

POB 97+69.54
13.17'

℄ FACE OF EAST TOWER
11

PI 0+62.27
PI 0+34.68
PI 1+26.91
N3°18'18"W
N86°41'41"E
11+41.33
POE 11+41.33
POE 1+73.22
CP 5617
PI 1+65.85
POE 1+05.59

BM 23

STA 0+00, SIDEWALK CONNECTION
X=601919.1620
Y=263756.8726

POB 0+00.00
POB 0+00.00
S85°50'55"W
N89°27'12"W
N3°15'58"W
℄ SIDEWALK
CP 5616

AMTRAK STATION

STA 0+00, FACE OF EAST TOWER
X=601858.0575
Y=263774.3405

PI 1+32.43
POE 1+25.10
PI 1+14.63
PI 0+58.14
POE 0+22.24
STA 0+22.24 = STA 0+70.40
S85°37'19"W
S88°43'53"W

STA 0+00, SIDEWALK
X=601980.4771
Y=263806.6681

PI 30+21.32
POB 0+05.00
S86°44'08"W
CP 2
CURVE 2
POB 0+00.00
32
N0°24'18"E
℄ ACCESS ROAD
CP 1
PI 33+68.71

℄ PARKING
30
POB 0+00.00

STA 0+00, PARKING LOT
X=602029.9840
Y=263739.1546

PC 29+58.47
PT 30+57.28
S89°27'26"E
BM 1
BM 2
BM 3
PC 32+88.82
34
CURVE 3
PT 34+37.13
N83°11'02"E
ACCESS ROAD
28
36

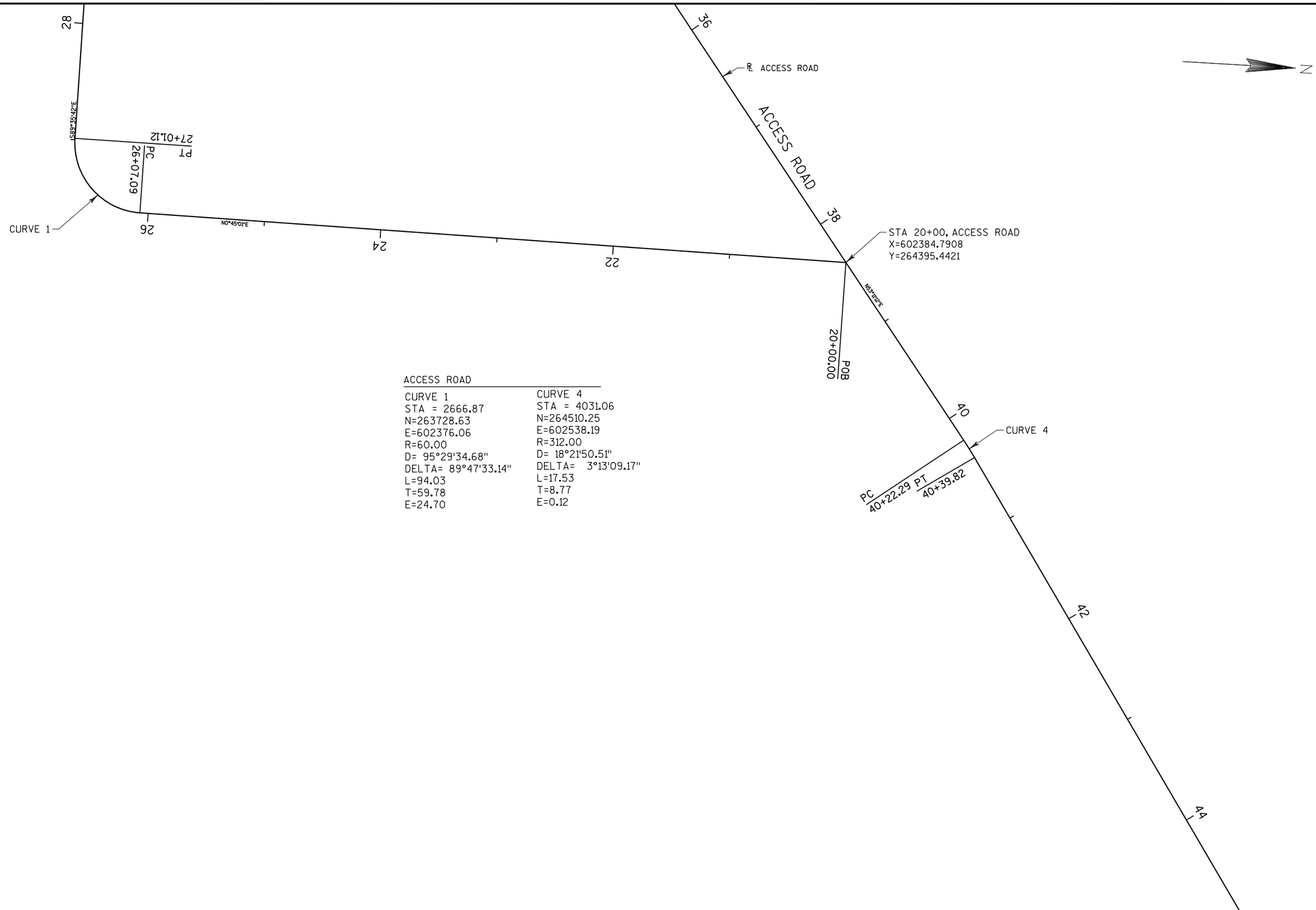
CONTROL POINTS

POINT	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM 1	ACCESS ROAD	30+66.72	29.14' RT	263,804.308	602,025.746	732.070	LIGHT POLE
BM 23	TRACK 1	108+00.01	31.46' RT	264,176.500	601,813.515	729.220	DISK IN CONCRETE
BM 2	ACCESS ROAD	31+72.13	28.57' RT	263,909.723	602,025.925	731.135	LIGHT POLE
BM 3	ACCESS ROAD	32+68.40	29.61' RT	264,005.988	602,027.640	730.429	LIGHT POLE
CP 1	ACCESS ROAD	33+34.69	48.21' LT	264,085.698	601,958.812	737.535	3/4" REBAR CAP
CP 2	ACCESS ROAD	29+87.77	116.54' LT	263,634.929	601,977.481	736.907	3/4" REBAR CAP
CP 5617	TRACK 1	104+50.91	71.95' RT	263,830.277	601,873.869	730.733	MARKER + ON STATION FLOOR
CP 5616	TRACK 1	104+54.29	102.26' RT	263,835.387	601,903.941	730.732	MARKER + ON STATION FLOOR

ACCESS ROAD

CURVE 2	CURVE 3
STA = 3021.32	STA = 3368.71
N=263732.23	N=264106.50
E=601996.09	E=601998.74
R=63.00	R=161.00
D= 90°56'44.45"	D= 35°35'14.79"
DELTA= 89°51'44.33"	DELTA= 52°46'53.34"
L=98.81	L=148.31
T=62.85	T=79.89
E=25.99	E=18.73

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	ALIGNMENTS AND CONTROL POINTS - 2 OF 3	SHEET E



ACCESS ROAD

CURVE 1	CURVE 4
STA = 2666.87	STA = 4031.06
N=263728.63	N=264510.25
E=602376.06	E=602538.19
R=60.00	R=312.00
D= 95°29'34.68"	D= 18°21'50.51"
DELTA= 89°47'33.14"	DELTA= 3°13'09.17"
L=94.03	L=17.53
T=59.78	T=8.77
E=24.70	E=0.12

PROJECT NO:1000-57-70	HWY:N/A	COUNTY:MILWAUKEE	ALIGNMENTS AND CONTROL POINTS - 3 OF 3	SHEET E

FILE NAME : pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\027203.dgn Last Saved: Apr 27 2022 PLOT BY : jessica.lancelle PLOT NAME : PLOT SCALE : 80.0000 sf / in.
WISDOT/CADDS SHEET 42

3

CLEARING AND GRUBBING

LOCATION	ALI	STATION	-	STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
WEST OF RR	WEST ACCESS	99+50		108+50	9	9
WEST ACCESS		14+50		18+00	4	4
PROPOSED EAST TOWER		103+45		104+36	1	1
		TOTAL			14	14

REMOVING PIPE

ALI	-	STATION	OFFSET	SIZE (IN)	TYPE	LENGTH (FT)	203.0100 REMOVING SMALL PIPE CULVERTS EACH
TRACK 2		103+38	61' RT	24	CULVERT	24	1
TRACK 2		104+26	40' RT	24	CULVERT	25	1
TOTAL							**2**

3

REMOVALS

LOCATION	ALI	STA	STA	OFF	SIDE	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0170 REMOVING FENCE LF	204.0195 REMOVING CONCRETE BASE EACH	204.9105.S REMOVING LANDSCAPING BOULDERS EACH	SPV.0105.19 REMOVE AND SALVAGE LIGHTING EQUIPMENT LS	SPV.0105.20 REMOVE EMERGENCY CROSSING LS
PARKING LOT TEMP ACCESS - WEST	ACCESS ROAD	29+85	30+62	22'-36'	RT	69	-	-	-	-	-	-
PARKING LOT TEMP ACCESS - EAST	ACCESS ROAD	26+10	26+50	21'-66'	RT	44	-	-	-	-	-	-
PARKING LOT TEMP ACCESS - 6TH ST	ACCESS ROAD	26+45	27+00	0-52'	LT	86	27	-	-	-	-	-
PARKING LOT SIDEWALK	TRACK 2	103+95	104+34	132-57'	RT	-	60	-	-	-	-	-
WHEELCHAIR LIFT STORAGE	TRACK 2	103+57	103+64	19'	RT	-	6	-	-	-	-	-
PARKING LOT	PARKING LOT	0+60	0+85	20'	LT	-	-	25	-	-	-	-
WEST TOWER BACKSLOPE	FRONT OF WEST PLATFORM	99+92	104+35	60-92'	LT	-	-	470	-	-	-	-
PROPOSED EASTTOWER	TRACK 2	103+80	140+20	27-65'	RT	-	-	-	-	6	-	-
PARKING LOT	ACCESS ROAD	30+00	30+47	0'	LT/RT	-	-	-	-	-	-	-
CONNECTION TO EXISTING BUILDING	TRACK 2	104+34	-	57-63'	RT	-	-	-	-	-	-	-
ALONG EXISTING SIDEWALK	TRACK 2	104+03	-	116'	RT	-	-	-	1	-	1	-
ALONG EXISTING SIDEWALK	TRACK 2	104+20	-	66'	RT	-	-	-	1	-		-
NORTH END OF PLATFORM	TRACK 2	107+75.00	108+00.00	0'	LT/RT	-	-	-	-	-	-	1
TOTAL						199	93	495	2	6	1	1

ALL ITEMS ARE CATEGORY **0010** UNLESS OTHERWISE SPECIFIED.

3

EARTHWORK

DIVISION	FROM/TO STATION	205.0100 COMMON EXCAVATION (1) CUT (2)	205.0100 COMMON EXCAVATION (1) EBS EXCAVATION (3)	SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13) FACTOR 1.25	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT
DIVISION 1											
WEST ACCESS FROM 13TH STREET	00+13.75/25+85.521	358	0	0	358	0	0	358	358	0	
EAST TOWER AREA	00+00/08+36.696	12	0	0	12	250	313	-301	0	301	
WEST TOWER AREA AND DITCH	98+00/110+37.1	4,980	0	0	4,980	1,472	1,840	3,140	3,140	0	
PERSONNEL PARKING	00+00/01+32.428	181	0	0	181	3	4	177	177	0	
SIDEWALKS TO PARKING	00+00/01+05.593	19	0	0	19	4	5	14	14	0	
DIVISION 1 SUBTOTAL		5,550	0	0	5,550	1,729	2,161	3,389	3,689	301	
GRAND TOTAL		5,550	0	0	5,550	1,729	2,161	3,389	3,689	301	
TOTAL COMMON EXC		5,550									

NOTES:

(1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100

(2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

(3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.

(4) SALVAGED/UNUSABLE PAVEMENT MATERIAL

(5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL

(13) EXPANDED FILL FACTOR = X.6X

DEPENDING ON SELECTION **EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH - REDUCED EBS) * FILL FACTOR**

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED EBS) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK - REDUCED MARSH) * FILL FACTOR

EXPANDED FILL = (UNEXPANDED FILL - EXPANDED ROCK) * FILL FACTOR

(14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

(15) FACTORS USED TO COMPUTE ANTICIPATED WASTE AND THE COMPUTED WASTE VOLUME IDENTIFIED ARE FOR GENERAL INFORMATION ONLY.

ALL ITEMS ARE CATEGORY **0010** UNLESS OTHERWISE SPECIFIED.

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ORIGINATOR: JESSICA LANCELLE

PLOTTED DATE: 1/31/2022 10:30 AM

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PAVING ITEMS

STATION	-	STATION	ALI	LOCATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	602.0410 CONCRETE SIDEWALK 5-INCH SF	624.0100 WATER MGAL	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0331 CONCRETE CURB & GUTTER 31-INCH TYPE D LF	416.0610 DRILLED TIE BARS EACH
29+85	-	30+62	ACCESS ROAD	PARKING LOT TEMP ACCESS - WEST	14	-	1	6	-	14	69	-	-
26+10	-	26+50	ACCESS ROAD	PARKING LOT TEMP ACCESS - EAST	30	-	1	13	-	31	44	-	-
26+45	-	27+00	ACCESS ROAD	PARKING LOT TEMP ACCESS - 6TH ST	53	240	1	20	-	49	46	40	14
0+15	-	1+25	PARKING	PERSONNEL PARKING	298	-	5	62	118	-	-	-	-
0+12	-	25+85	WEST ACCESS	WEST ACCESS ROAD	1,587	-	24	-	-	-	-	-	-
103+35	-	104+35	TRACK 1	SIDEWALK - EAST TOWER	42	2,017	1	-	-	-	-	-	-
0+00	-	1+05	SIDEWALK	SIDEWALK - PARKING	22	1,180	1	-	-	-	-	-	-
100+00	-	100+05	BACK OF WEST PLATFORM	SIDEWALK - SOUTH EMERGENCY REFUGE	6	290	1	-	-	-	-	-	-
103+56	-	104+26	BACK OF WEST PLATFORM	SIDEWALK - WEST TOWER	25	1,330	1	-	-	-	-	-	-
108+00	-	108+56	BACK OF WEST PLATFORM	SIDEWALK - NORTH EMERGENCY REFUGE	6	290	1	-	-	-	-	-	-
TOTAL					**2,083**	**5,347**	**37**	**101**	**118**	**94**	**159**	**40**	**14**

3

DETECTABLE WARNING FIELDS

LOCATION	ALI	STA	STA	SIDE	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
EAST TRACK	BACK OF WEST PLATFORM	100+00	108+00	LT	1600
SAFE REFUGE - SOUTH	BACK OF WEST PLATFORM	100+00	-	LT/RT	38
SAFE REFUGE - NORTH	BACK OF WEST PLATFORM	108+00	108+56	RT	32
PERSONNEL PARKING	SIDEWALK TO PARKING	0+00	0+02	LT/RT	10
TOTAL					1680

ALL ITEMS ARE CATEGORY **0010** UNLESS OTHERWISE SPECIFIED.

3

STORM SEWER PIPES

STA	STA	ALI	STRUCTURE FROM	-	TO	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %
99+10	99+96	WEST PLATFORM	W-1		W-2	88	1	725.00	724.84	0.0020
99+96	100+67		W-2		W-3	71	-	724.84	724.69	0.0020
100+67	102+00		W-3		W-4	131	-	724.69	724.42	0.0020
102+00	103+50		W-4		W-5	150	-	724.42	724.12	0.0020
103+50	103+82		W-5		W-6	32	-	724.09	724.04	0.0020
103+82	104+50		W-6		W-7	68	-	724.04	723.95	0.0020
104+50	106+00		W-7		W-8	150	-	723.95	723.65	0.0020
106+00	106+67		W-8		W-9	67	-	723.65	723.52	0.0020
106+67	107+33		W-9		W-10	67	-	723.52	723.38	0.0020
107+33	108+00		W-10		W-11	67	1	723.38	723.25	0.0020
103+26	103+48	TRACK 1	E-1		E-2	25	1	725.60	725.10	0.0198
103+48	103+51		E-2		E-3	33	-	725.10	724.94	0.0050
103+51	104+39		E-3		E-4	88	-	724.94	724.51	0.0050
104+39	104+39		E-4		E-5	24	-	724.51	724.41	0.0050
		TOTAL				1061	3			

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STORM SEWER STRUCTURES

STRUCTURE		STATION	ALI	611.0535 MANHOLE COVERS TYPE J SPECIAL EACH	611.0610 INLET COVERS TYPE BW EACH	611.0606 INLET COVERS TYPE B EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	RIM ELEVATION
W-1	ENDWALL	99+10	WEST PLATFORM	-	-	-	-	-	-
W-2		99+96		1	-	-	1	-	730.02
W-3		100+67		-	-	1	-	1	730.44
W-4		102+00		-	-	1	-	1	730.00
W-5		103+50		-	-	1	-	1	729.21
W-6		103+82		-	-	1	-	1	728.45
W-7		104+50		-	-	1	-	1	728.54
W-8		106+00		-	-	1	-	1	727.48
W-9		106+67		-	-	1	-	1	726.89
W-10		107+33		-	1	-	-	1	726.38
W-11	ENDWALL	108+00		-	-	-	-	-	-
E-1	ENDWALL	103+26	TRACK ONE	-	-	-	-	-	-
E-2		103+48		-	-	1	-	1	728.66
E-3		103+51		-	-	1	-	1	730.00
E-4		104+39		-	-		-	1	729.45
E-5		10483		-	-	1	-	1	729.83
TOTAL				1	1	10	1	12	

PIPE UNDERDRAIN

FROM	-	TO	LOCATION	612.0108 PIPE UNDERDRAIN 8-INCH LF
103+61		104+26	BEHIND WEST TOWER	65
104+26		104+50	BEHIND WEST TOWER	58
TOTAL				123

ALL ITEMS ARE CATEGORY **0010** UNLESS OTHERWISE SPECIFIED.

3

FENCE SAFETY

LOCATION	616.0700.S FENCE SAFETY LF
PARKING LOT PLATFORM	60
SOUTH OF EXISTING BUILDING	220
NORTH OF EXISTING BUILDING	220
UNDISTRIBUTED	500
TOTAL	1,000

FENCE

LOCATION	ALI	STATION	OFFSET	STATION	OFFSET	616.0206 FENCE CHAIN LINK 6-FT LF
PARKING LOT	PARKING LOT	0+60	30' LT	1+35	27' LT	67
TOTAL						67

3

MAINTENANCE AND REPAIR OF HAUL ROADS

PROJECT	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS EACH
1000-57-70	1
TOTAL	**1**

MOBILIZATION

PROJECT	619.1000 MOBILIZATION EACH
1000-57-70	1
TOTAL	1

EROSION CONTROL MOBILIZATION

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH
1000-57-70	20	13
TOTAL	**20**	**13**

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LANDSCAPING

LOCATION	STATION	-	STATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2021 EROSION MAT CLASS II TYPE A SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	631.1000 SOD LAWN SY	631.0300 SOD WATER MGAL
WEST OF RR - SEED	99+00		108+50	2411	2,411	2,411	-	1.52	43.4	43.4	812	-	-
WEST OF RR - SOD	99+00		108+50	-	-	-	1,841	-	-	33.1	-	1,841	42
WEST ACCESS - SEED	0+12		25+85	3510	3,510	3,510	-	2.21	63.2	63.2	1,182	-	-
PROPOSED EAST TOWER	103+00		104+25	-	-	-	369	-	-	6.6	-	369	9
UNDISTRIBUTED	1000-57-70			599	599	599	227	1.04	10.3	10.3	200	221	6
TOTAL				**6,520**	**6,520**	**6,520**	**2,440**	**4.8**	**120.0**	**160.0**	**2,194**	**2,431**	**57**

EROSION CONTROL

LOCATION	STATION	-	STATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7010 INLET PROTECTION TYPE B EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	611.8120.S COVER PLATES TEMPORARY EACH
WEST OF RR	99+00		108+50	-	-	-	60	-	-
PROPOSED EAST TOWER	103+00		104+25	-	-	-	-	1	-
PERSONNEL PARKING	102+85		103+45	125	125	-	-	-	-
NORTH OF EXISTING BUILDING	104+75		105+90	205	205	-	-	-	-
ACCESS ROAD	26+00		32+90	-	-	2	-	-	1
TOTAL				**330**	**330**	**2**	**60**	**1**	**1**

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3

REMOVING SIGNS

LOCATION	STA	SIGN CODE	SIGN MESSAGE	638.2102 MOVING SIGNS TYPE II EACH
PARKING AREA	30+26 LT	R-SERIES	AUTHORIZED VEHICLES ONLY	1
TOTAL				1

FIELD OFFICE

PROJECT	642.5201 TYPE C EACH
1000-57-70	1
TOTAL	1

TRAFFIC CONTROL

PROJECT	643.5000 TRAFFIC CONTROL EACH
1000-57-70	1
TOTAL	1

TRAFFIC CONTROL

STAGE	DAYS IN SERVICE	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	643.0300 TRAFFIC CONTROL DRUMS NO.	643.0300 DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420 DAY	643.0900 TRAFFIC CONTROL SIGNS NO.	643.0900 DAY
1	63	325	325	7	441	3	189	2	126
2	49	-	-	7	343	3	147	2	98
3	126	-	-	7	882	3	378	2	252
4	28	-	-	7	196	3	84	2	56
5	49	-	-	7	343	3	147	2	98
6	126	-	-	0	0	0	0	-	-
TOTAL		**325**	**325**		**2,205**		**945**		**630**

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MARKING ITEMS

STATION	-	STATION	TYPE/LOCATION	646.1005 MARKING LINE PAINT 4-INCH YELLOW LF	646.1005 MARKING LINE PAINT 4-INCH WHITE LF	SPV.0090.04 MARKING LINE PAINT 4.5-INCH YELLOW LF	SPV.0090.05 MARKING LINE CONTRAST PAINT 2-INCH BLACK LF	SPV.0060.09 MARKING LINE PAINT TEXT 4-INCH BLACK EACH	646.8305 MARKING PARKING STALL PAINT LF	NOTES
0+65		1+15	PARKING AREA	-	-	-	-	-	80	
100+00		108+00	NEW PLATFORM	-	-	800	800	25	-	STAY BEHIND YELLOW LINE'
29+50		30+50	ACCESS ROAD - UNDISTRIBUTED	-	100	-	-	-	-	
TOTAL				100		800	800	25	80	

CONSTRUCTION STAKING

STATION	-	STATION	ALI	LOCATION	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION CURB GUTTER AND CURB & GUTTER LF	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (PED BRIDGE) LS	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (WEST TOWER) LS	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (EAST TOWER) LS	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS 1000-57-70 LS	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 1000-57-70 LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
				PROJECT	-	-	1135	1	1	1	1	1	-
0+15		1+25	PARKING	PARKING LOT	110	199	-	-	-	-	-	-	110
99+00		108+70	BACK OF WEST PLATFORM	GRADING BEHIND TOWER	-	-	-	-	-	-	-	-	970
TOTAL					110	199	1,135	1	1	1	1	1	1,080

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SAWING

LOCATION		ALI	STA	STA	OFF	SIDE	690.0250 SAWING CONCRETE LF	690.0150 SAWING ASPHALT LF
PARKING LOT TEMP ACCESS - WEST	CURB	ACCESS ROAD	29+85	30+62	22'-36'	RT	6	-
PARKING LOT TEMP ACCESS - EAST	CURB	ACCESS ROAD	26+10	26+50	21'-66'	RT	6	-
PARKING LOT TEMP ACCESS - 6TH ST	CURB & SIDEWALK	ACCESS ROAD	26+45	27+00	0-52'	LT	60	-
PARKING LOT	EDGE OF LOT	ACCESS ROAD	30+00	30+47	0'	LT/RT	-	56
CONNECTION TO EXISTING BUILDING	SIDEWALK	TRACK 2	104+34	-	57-63'	RT	6	-
TOTAL							78	56

SPECIAL PROVISIONS

FROM STATION	TO STATION	SPV.0105.18 RELOCATE WHEELCHAIR LIFT STORAGE LS	SPV.0060.08 REMOVE, SALVAGE AND REINSTALL INLET GRATE EACH
103+60	104+94	1	-
		-	1
TOTAL		**1**	**1**

3

ALL ITEMS ARE CATEGORY **0010** UNLESS OTHERWISE SPECIFIED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), MILWAUKEE COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

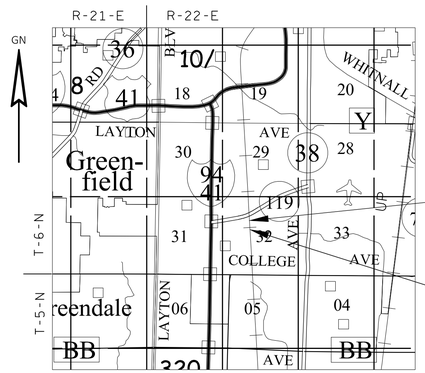
A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

BASIS OF EXISTING RIGHT OF WAY			
ROAD NAME	PROJECT/SURVEY	VOL. PAGE	DOC.
SOO LINE RAILROAD	0385-56-72		
STH 119	2015-1-21		

TLE COURSE TABLE		
Point - Point	Bearing	Distance
201 - 300	S03° 16' 42"E	266.32'
300 - 301	S03° 16' 42"E	227.31'
301 - 302	N89° 30' 18"W	30.07'
302 - 303	N03° 16' 42"W	216.72'
303 - 300	N70° 42' 27"E	31.21'

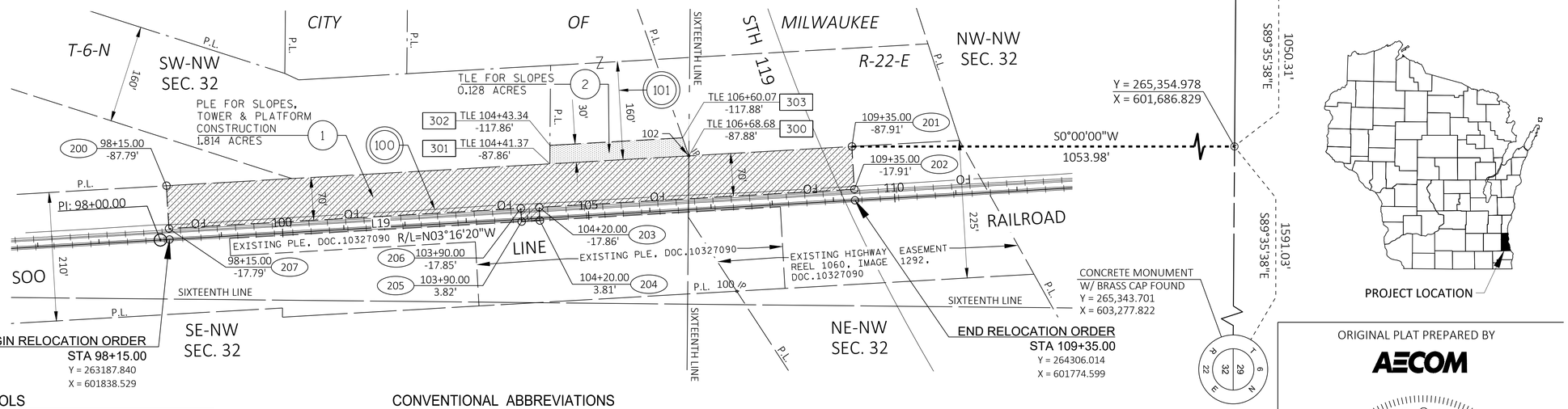
PLE COURSE TABLE		
Point - Point	Bearing	Distance
201 - 202	N86° 43' 40"E	70.00'
202 - 203	S03° 16' 42"E	515.00'
203 - 204	N86° 43' 40"E	21.67'
204 - 205	S03° 17' 04"E	30.00'
205 - 206	S86° 43' 40"W	21.67'
206 - 207	S03° 16' 42"E	575.00'
207 - 200	S86° 43' 40"W	70.00'
200 - 201	N03° 16' 42"W	1120.00'



EXISTING MONUMENTS			
POINT	Y	X	DESCRIPTION
100	264113.401	601923.193	2" IRON PIPE
102	264034.913	601702.134	2" IRON PIPE

END RELOCATION ORDER
STA 109+35.00
1056.41' SOUTH AND 1138.05' EAST OF THE NORTHWEST CORNER OF SECTION 32, T6N, R22E.

BEGIN RELOCATION ORDER
STA 98+15.00
2174.58' SOUTH AND 1201.98' EAST OF THE NORTHWEST CORNER OF SECTION 32, T6N, R22E.



CONCRETE MONUMENT
W/ BRASS CAP FOUND
Y = 265,362.422
X = 600,636.549

CONCRETE MONUMENT
W/ BRASS CAP FOUND
Y = 265,343.701
X = 603,277.822

GN

SCALE, FEET
0 100 200

PROJECT LOCATION

CONVENTIONAL UTILITY SYMBOLS

		NON-COMPENSABLE	COMPENSABLE
WATER	W	POWER POLE	■
GAS	G	TELEPHONE POLE	●
TELEPHONE	T	TELEPHONE PEDESTAL	✱
OVERHEAD TRANSMISSION LINES	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
ELECTRIC TOWER	☒		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER 25
UTILITY NUMBER 40
SECTION CORNER
R/W MONUMENT ●
NON-MONUMENTED R/W POINT ○
NOTATION FOR COMBUSTABLE FLUIDS — CAUTION
FOUND IRON PIN IP
VALVE (GAS, WATER, ETC.) ⊘ (TYPE)
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES — CAUTION
SIGN SIGN
OFF-PREMISE SIGN #1-25 SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	TLE ACRES	PLE ACRES
1	SOO LINE RAILROAD COMPANY	PLE	-----	1.815
2	THE CHARLES P. PURPERO LIVING TRUST	TLE	0.153	-----

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER	INTEREST REQUIRED
100	ROGERS TELECOM (FIBER OPTIC)	RELEASE OF RIGHTS
101	AMERICAN TRANSMISSION COMPANY LLC (ELECTRIC)	RELEASE OF RIGHTS

(100) ROGERS TELECOM - NO RECORDED EASEMENT FOR PARCEL 1

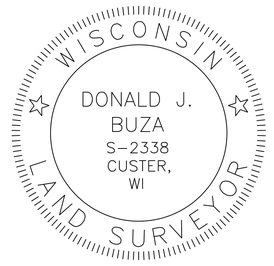
(101) WISCONSIN ELECTRIC POWER COMPANY EASEMENT IN VOL.3441, PG.597, DOC.3399080 AND EASEMENT ASSIGNMENT TO AMERICAN TRANSMISSION COMPANY LLC IN REEL 4989, IMAGE 2041, DOC.8013166

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1000-57-20		
FEDERAL PROJECT NUMBER	4.01	1

PLAT OF RIGHT-OF-WAY REQUIRED FOR GENERAL MITCHELL INTERNATIONAL AIRPORT RAIL PASSENGER STATION (MARS) PLATFORM EXTENSION SOO LINE RAILROAD CO. MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER
1000-57-05

ORIGINAL PLAT PREPARED BY
AECOM



SIGNATURE: Donald J Buza
DATE: 12/17/21

CAUTION:
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

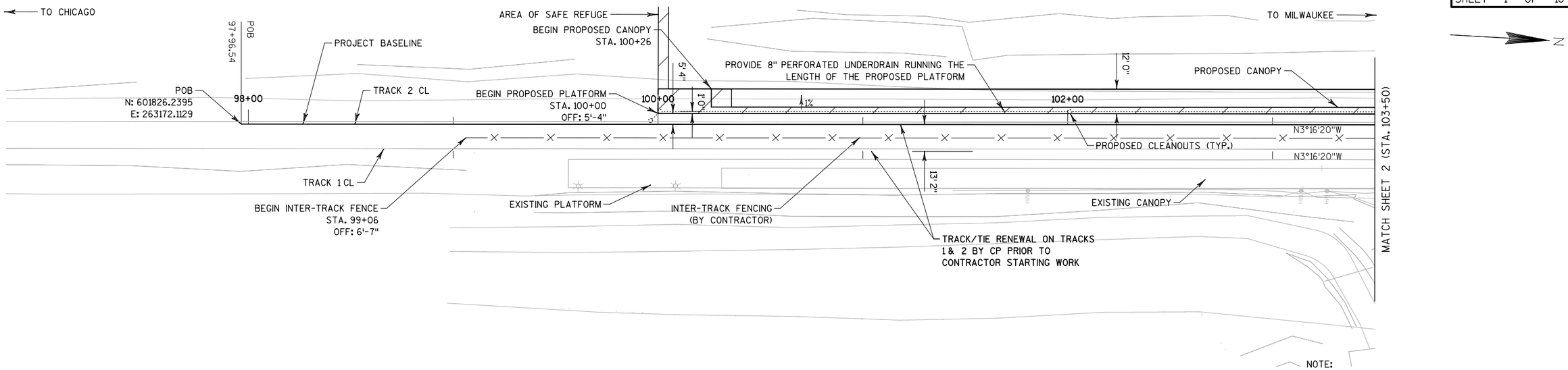
REVISION DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR THE DEPARTMENT

SIGNATURE: _____ DATE:

PRINT NAME:



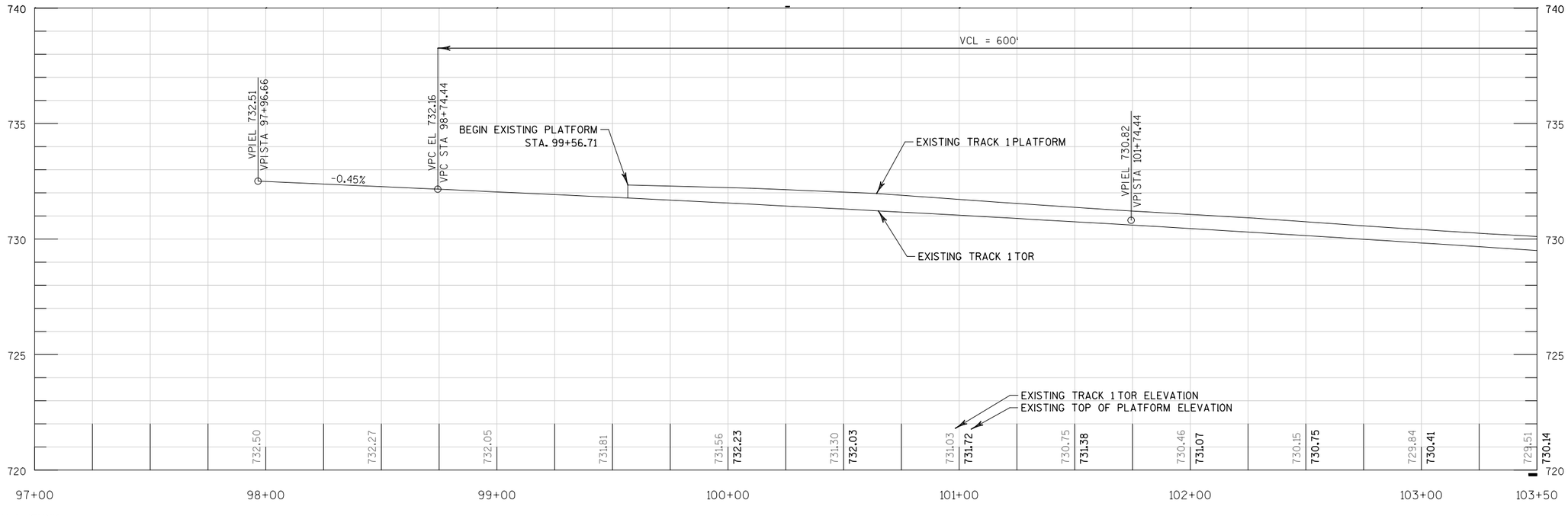
PLAN

SCALE: 1":50'

NOTE:

1. CONTRACTOR TO VERIFY TOP OF RAIL ELEVATIONS PRIOR TO START OF PLATFORM CONSTRUCTION AND PROVIDE TO WISDOT. TOP OF PLATFORM TO BE 8" ABOVE TOP OF RAIL.

2. CONSTRUCTION WILL OCCUR WITHIN A CP FORM B PROTECTION AND WORK ADJACENT TO THE TRACK WILL HAVE TO BE PLANNED AROUND TRAIN OPERATIONS.



PROFILE LEGEND

EXISTING TOP OF RAIL

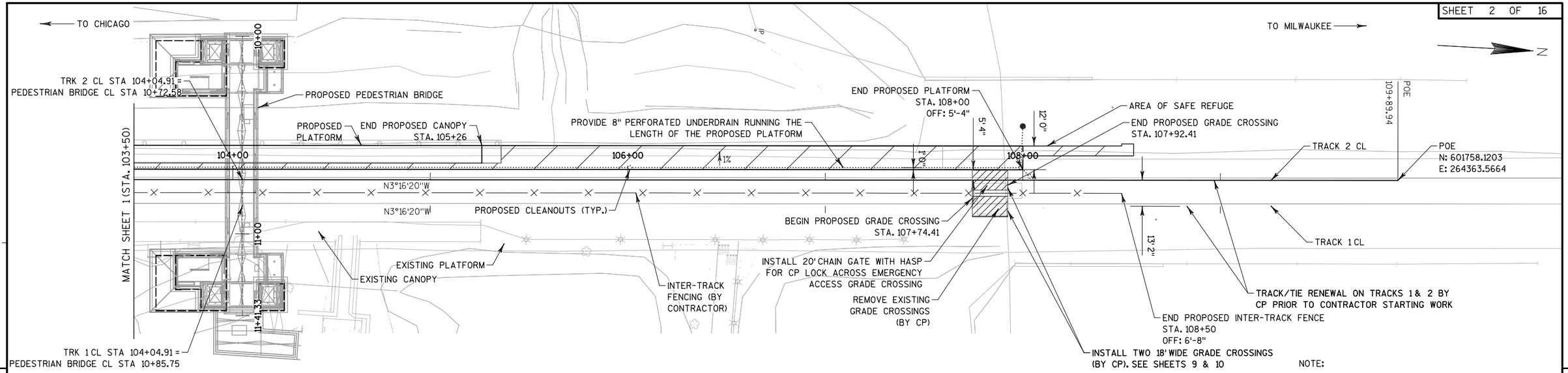
EXISTING TOP OF PLATFORM

TRACK 1 PROFILE

SCALE: 1":50'

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	PLAN AND PROFILE (TRACK 1)	SHEET E

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.
WISDOT/CADDS SHEET 42



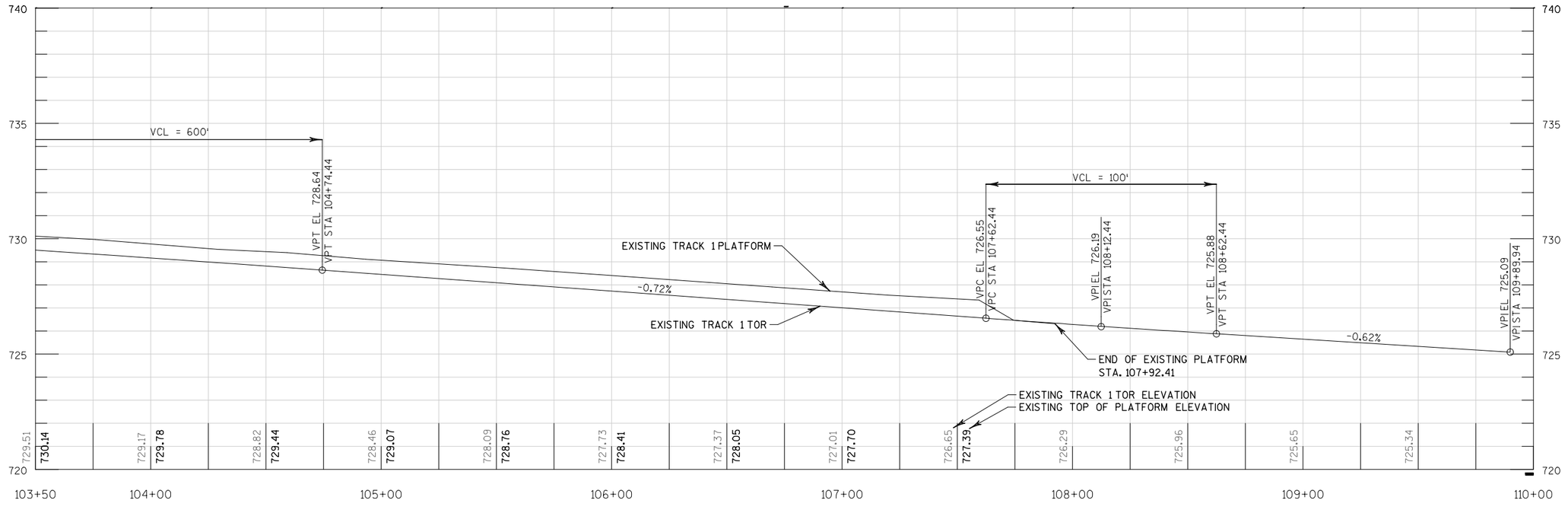
PLAN

SCALE: 1":50'

NOTE:

1. CONTRACTOR TO VERIFY TOP OF RAIL ELEVATIONS PRIOR TO START OF PLATFORM CONSTRUCTION AND PROVIDE TO WISDOT. TOP OF PLATFORM TO BE 8" ABOVE TOP OF RAIL.

2. CONSTRUCTION WILL OCCUR WITHIN A CP FORM B PROTECTION AND WORK ADJACENT TO THE TRACK WILL HAVE TO BE PLANNED AROUND TRAIN OPERATIONS.



PROFILE LEGEND

EXISTING TOP OF RAIL

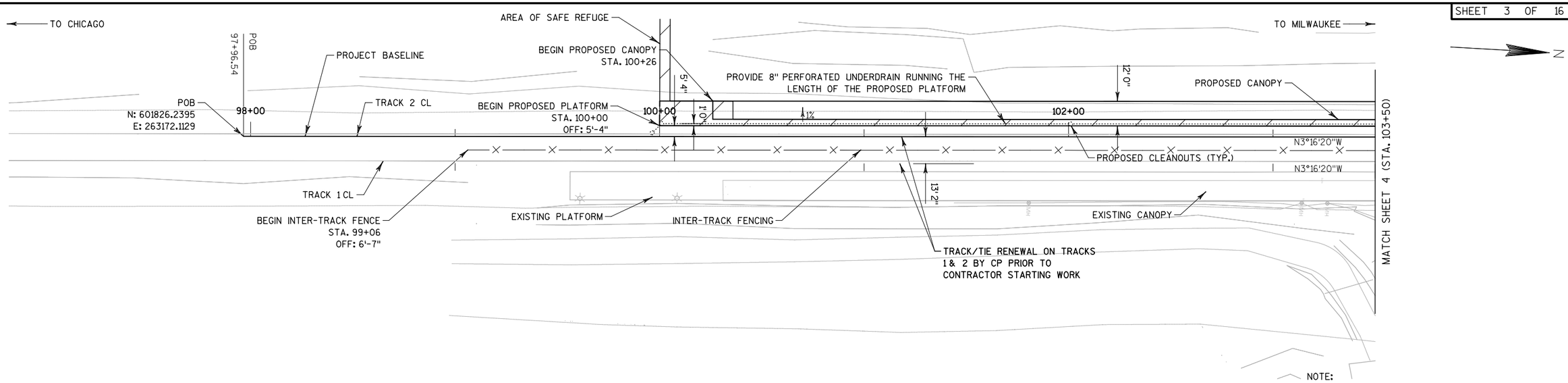
EXISTING TOP OF PLATFORM

TRACK 1 PROFILE

SCALE: 1":50'

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	PLAN AND PROFILE (TRACK 1)	SHEET E

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.



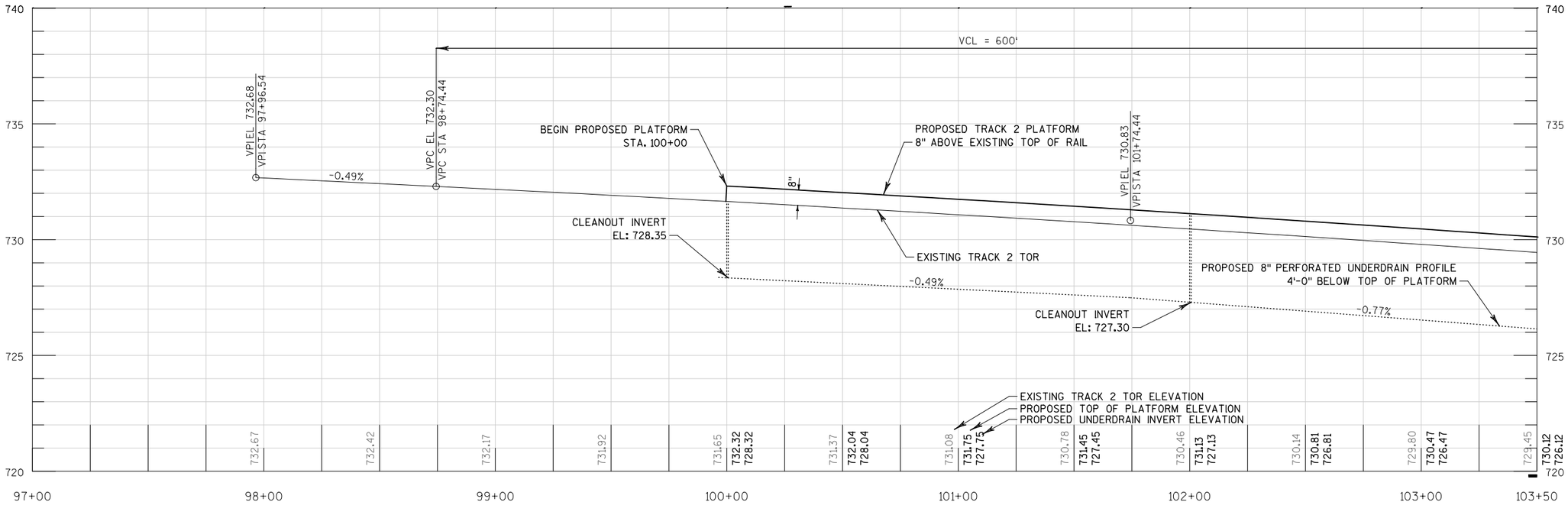
PLAN

SCALE: 1":50'

NOTE:

1. CONTRACTOR TO VERIFY TOP OF RAIL ELEVATIONS PRIOR TO START OF PLATFORM CONSTRUCTION AND PROVIDE TO WISDOT. TOP OF PLATFORM TO BE 8" ABOVE TOP OF RAIL.

2. CONSTRUCTION WILL OCCUR WITHIN A CP FORM B PROTECTION AND WORK ADJACENT TO THE TRACK WILL HAVE TO BE PLANNED AROUND TRAIN OPERATIONS.



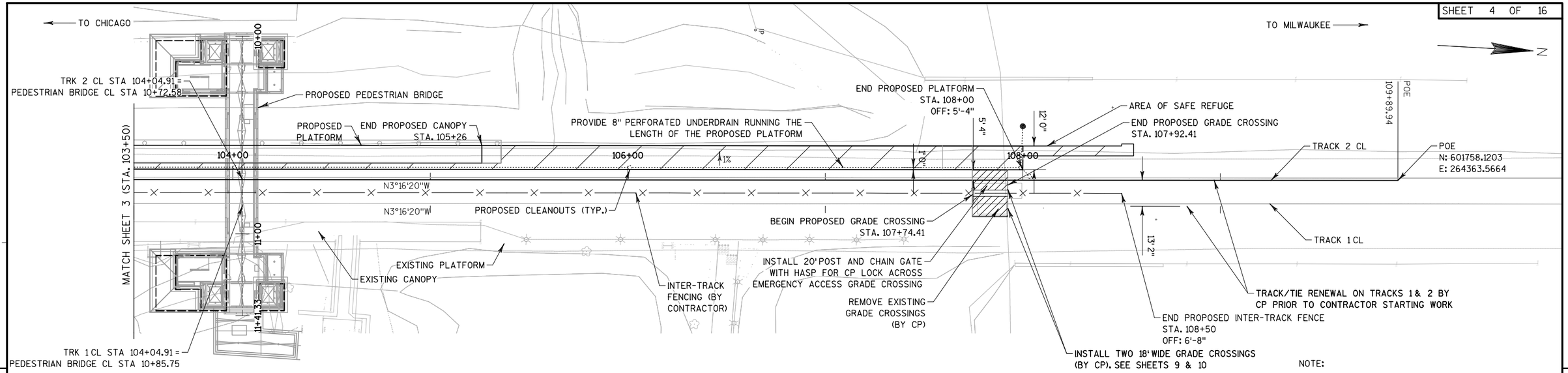
PROFILE LEGEND

EXISTING TOP OF RAIL
PROPOSED TOP OF PLATFORM
PROPOSED UNDERDRAIN INVERT

TRACK 2 PROFILE

SCALE: 1":50'

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	PLAN AND PROFILE (TRACK 2)	SHEET E



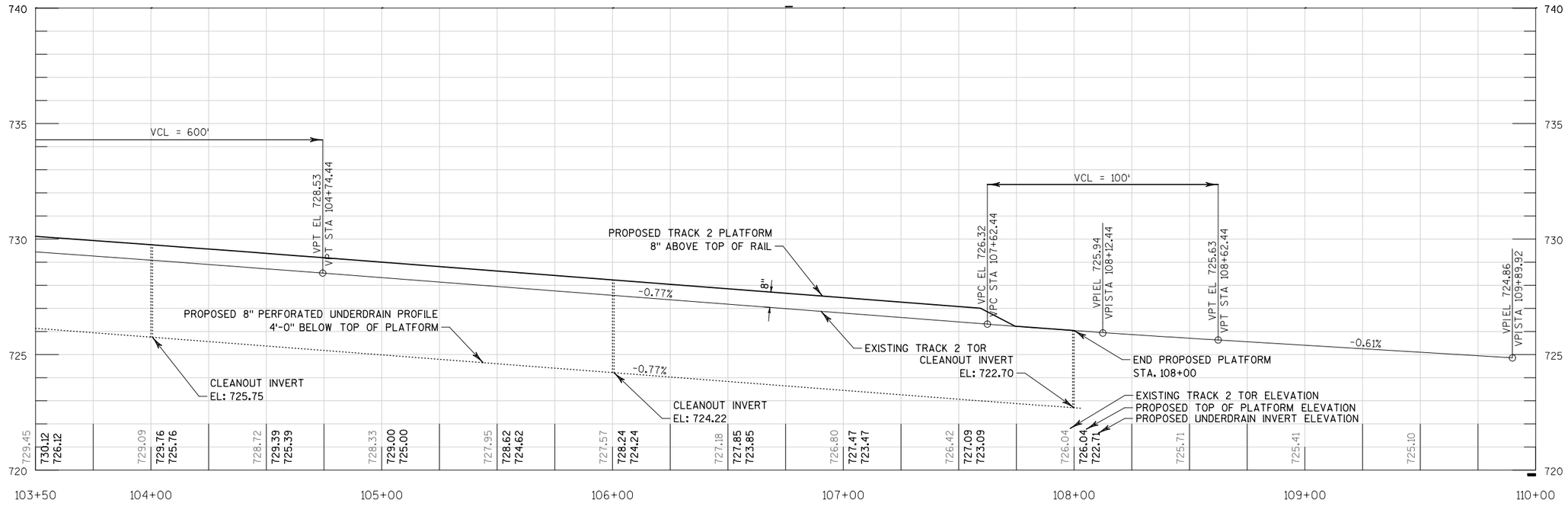
PLAN

SCALE: 1":50'

NOTE:

1. CONTRACTOR TO VERIFY TOP OF RAIL ELEVATIONS PRIOR TO START OF PLATFORM CONSTRUCTION AND PROVIDE TO WISDOT. TOP OF PLATFORM TO BE 8" ABOVE TOP OF RAIL.

2. CONSTRUCTION WILL OCCUR WITHIN A CP FORM B PROTECTION AND WORK ADJACENT TO THE TRACK WILL HAVE TO BE PLANNED AROUND TRAIN OPERATIONS.



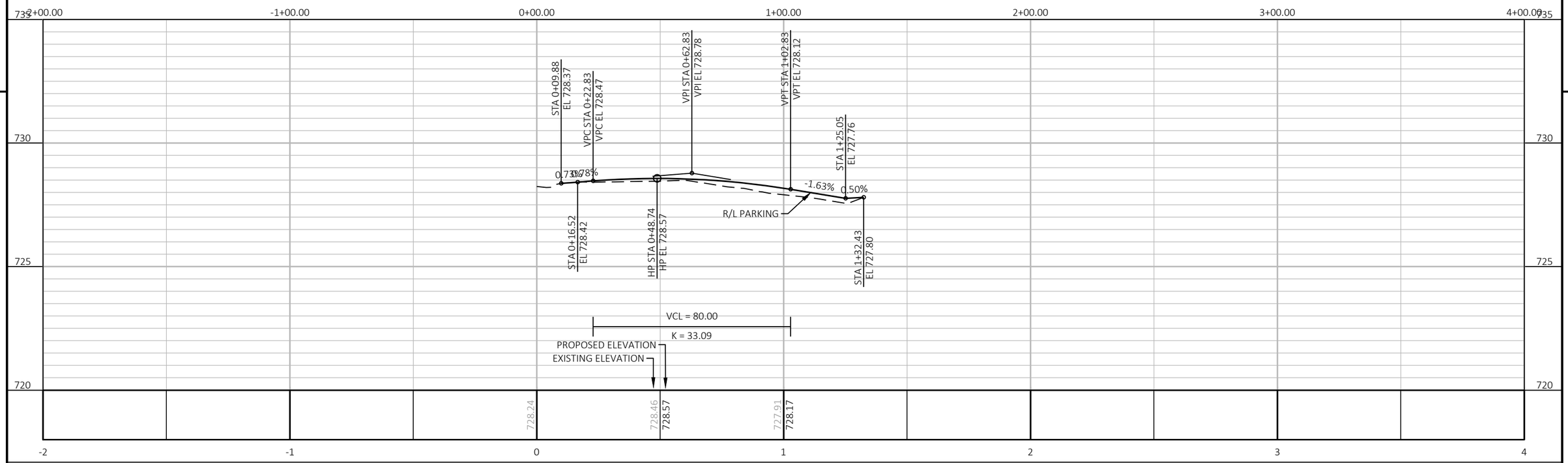
PROFILE LEGEND

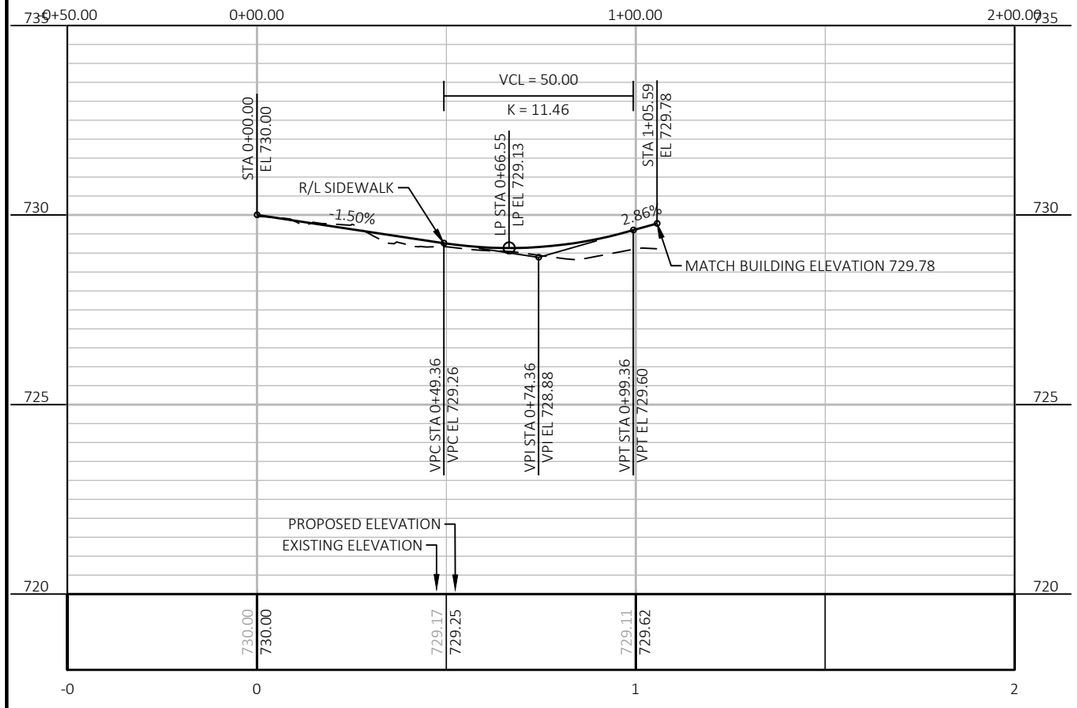
EXISTING TOP OF RAIL
PROPOSED TOP OF PLATFORM
PROPOSED UNDERDRAIN INVERT

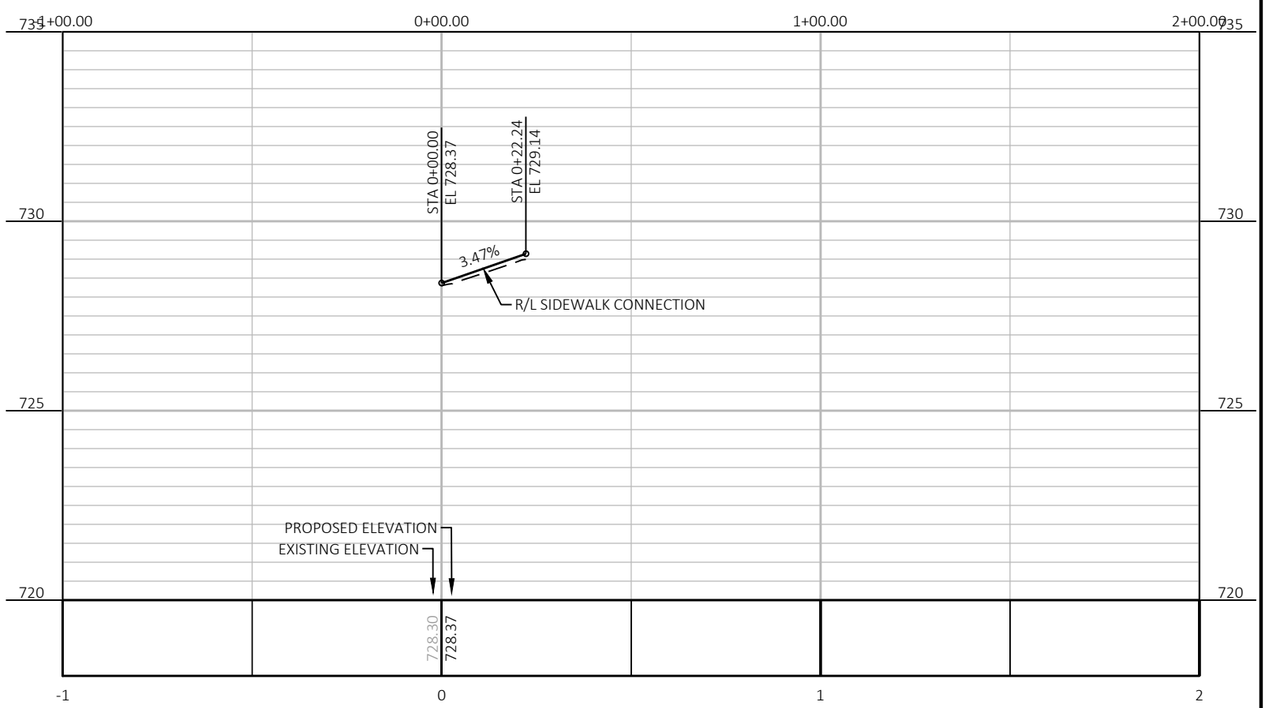
TRACK 2 PROFILE

SCALE: 1":50'

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	PLAN AND PROFILE (TRACK 2)	SHEET E

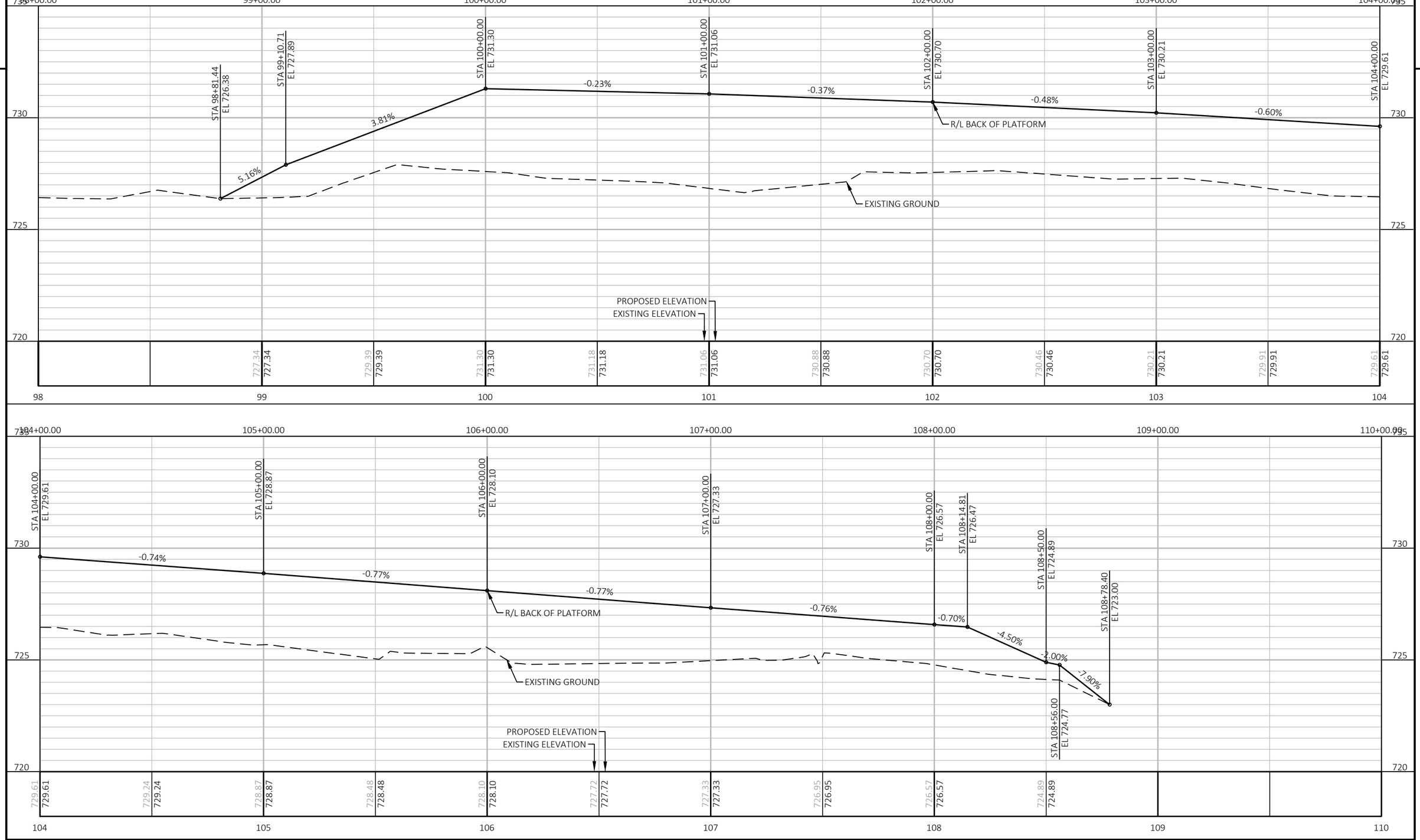






PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PROFILES	SHEET E

PRE_68



PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	PROFILES BACK OF WEST PLATFORM	SHEET E

PRE_69

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\050302_PR.DWG
LAYOUT NAME - BOP

PLOT DATE : 1/26/2022 7:45 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 41

WEST ACCESS FROM 13TH STREET

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
00+13.75	13.75	0.00	0.00	0.00	0.00	0	0	0	0	0	0
00+50	50.00	36.25	0.00	0.00	0.00	0	0	0	0	0	0
01+00	100.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
01+50	150.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
02+00	200.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
02+50	250.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
03+00	300.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
03+50	350.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
04+00	400.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
04+50	450.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
05+00	500.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
05+50	550.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
06+00	600.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
06+50	650.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
07+00	700.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
07+50	750.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
08+00	800.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
08+50	850.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
09+00	900.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
09+50	950.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
10+00	1000.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
10+50	1050.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
11+00	1100.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
11+50	1150.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
12+00	1200.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
12+50	1250.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
13+00	1300.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
13+50	1350.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
14+00	1400.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
14+50	1450.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
15+00	1500.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
15+50	1550.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
16+00	1600.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
16+50	1650.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
17+00	1700.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
17+50	1750.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
18+00	1800.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
18+50	1850.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
19+00	1900.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
19+50	1950.00	50.00	0.00	0.00	0.18	0	0	0	0	0	0
20+00	2000.00	50.00	62.93	0.00	0.00	58	0	0	58	0	58
20+50	2050.00	50.00	36.43	0.00	0.00	92	0	0	150	0	150
21+00	2100.00	50.00	30.10	0.00	0.04	62	0	0	212	0	212
21+50	2150.00	50.00	25.91	0.00	0.00	52	0	0	264	0	264
22+00	2200.00	50.00	37.48	0.00	0.00	59	0	0	323	0	323
22+50	2250.00	50.00	0.00	0.00	0.00	35	0	0	358	0	358
23+00	2300.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
23+50	2350.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
24+00	2400.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
24+50	2450.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
25+00	2500.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
25+50	2550.00	50.00	0.00	0.00	0.00	0	0	0	358	0	358
25+85.521	2585.52	35.52	0.00	0.00	0.00	0	0	0	358	0	358
			TOTAL			358	0	0			

9

PROJECT NUMBER: 1000-57-70 | HWY: N/A | COUNTY: MILWAUKEE | EARTHWORK DATA | SHEET NO: PRE_70

FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\090200_ew.pptx

ORIGINATOR: JESSICA LANCELLE

PLOTTED DATE: 1/20/2022 8:18 PM

EAST TOWER AREA

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT	FILL	CUT	EXPANDED FILL	MASS ORDINATE
									1.00	1.25	
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
00+00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
00+50	50.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
01+00	100.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
01+50	150.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
02+00	200.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
02+50	250.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
03+00	300.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
03+50	350.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
03+75	375.00	25.00	0.30	0.00	7.11	0	0	3	0	4	-4
04+00	400.00	25.00	2.36	0.00	84.53	1	0	42	1	56	-55
04+25	425.00	25.00	2.23	0.00	104.93	2	0	88	3	166	-163
04+50	450.00	25.00	4.72	0.00	72.06	3	0	82	6	269	-263
04+75	475.00	25.00	4.02	0.00	1.92	4	0	34	10	311	-301
05+00	500.00	25.00	0.00	0.00	0.00	2	0	1	12	313	-301
05+50	550.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
06+00	600.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
06+50	650.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
07+00	700.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
07+50	750.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
08+00	800.00	50.00	0.00	0.00	0.00	0	0	0	12	313	-301
08+36.696	836.70	36.70	0.00	0.00	0.00	0	0	0	12	313	-301
				TOTAL		12	0	250			

PROJECT NUMBER: 1000-57-70 | HWY: N/A | COUNTY: MILWAUKEE | EARTHWORK DATA | SHEET NO:

PRE_71

FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\090200_ew.pptx

ORIGINATOR: JESSICA LANCELLE

PLOTTED DATE: 1/20/2022 8:18 PM

WEST TOWER AREA AND DITCH

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
98+00	9800.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
98+50	9850.00	50.00	0.00	0.00	0.00	0	0	0	0	0	0
99+00	9900.00	50.00	0.02	0.00	21.96	0	0	20	0	25	-25
99+50	9950.00	50.00	3.91	0.00	47.86	4	0	65	4	106	-102
100+00	10000.00	50.00	6.31	0.00	68.35	9	0	108	13	241	-228
100+50	10050.00	50.00	50.11	0.00	61.31	52	0	120	65	391	-326
101+00	10100.00	50.00	3.06	0.00	88.84	49	0	139	114	565	-451
101+50	10150.00	50.00	97.51	0.00	36.60	93	0	116	207	710	-503
102+00	10200.00	50.00	106.19	0.00	31.97	189	0	63	396	789	-393
102+50	10250.00	50.00	118.74	0.00	31.19	208	0	58	604	861	-257
103+00	10300.00	50.00	133.09	0.00	33.65	233	0	60	837	936	-99
103+50	10350.00	50.00	580.26	0.00	35.70	661	0	64	1,498	1,016	482
104+00	10400.00	50.00	651.91	0.00	34.87	1,141	0	65	2,639	1,098	1,542
104+50	10450.00	50.00	402.49	0.00	36.35	976	0	66	3,615	1,180	2,435
105+00	10500.00	50.00	162.92	0.00	36.53	524	0	67	4,139	1,264	2,875
105+50	10550.00	50.00	24.75	0.00	69.92	174	0	99	4,313	1,388	2,926
106+00	10600.00	50.00	115.29	0.00	28.74	130	0	91	4,443	1,501	2,942
106+50	10650.00	50.00	116.19	0.00	27.05	214	0	52	4,657	1,566	3,091
107+00	10700.00	50.00	116.32	0.00	20.64	215	0	44	4,872	1,621	3,251
107+50	10750.00	50.00	0.00	0.00	49.61	108	0	65	4,980	1,703	3,278
108+00	10800.00	50.00	0.00	0.00	23.52	0	0	68	4,980	1,788	3,193
108+50	10850.00	50.00	0.01	0.00	11.28	0	0	32	4,980	1,828	3,153
109+00	10900.00	50.00	0.00	0.00	0.00	0	0	10	4,980	1,840	3,140
109+50	10950.00	50.00	0.00	0.00	0.00	0	0	0	4,980	1,840	3,140
110+00	11000.00	50.00	0.00	0.00	0.00	0	0	0	4,980	1,840	3,140
110+37.1	11037.10	37.10	0.00	0.00	0.00	0	0	0	4,980	1,840	3,140
				TOTAL		4,980	0	1,472			

PERSONNEL PARKING

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
00+00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0
00+25	25.00	25.00	21.24	0.00	0.13	10	0	0	10	0	10
00+50	50.00	25.00	18.12	0.00	0.66	18	0	0	28	0	28
00+75	75.00	25.00	60.91	0.00	1.49	37	0	1	65	1	64
01+00	100.00	25.00	81.03	0.00	0.00	66	0	1	131	3	129
01+32.428	132.43	32.43	1.73	0.00	0.98	50	0	1	181	4	177
				TOTAL		181	0	3			

SIDEWALKS TO PARKING

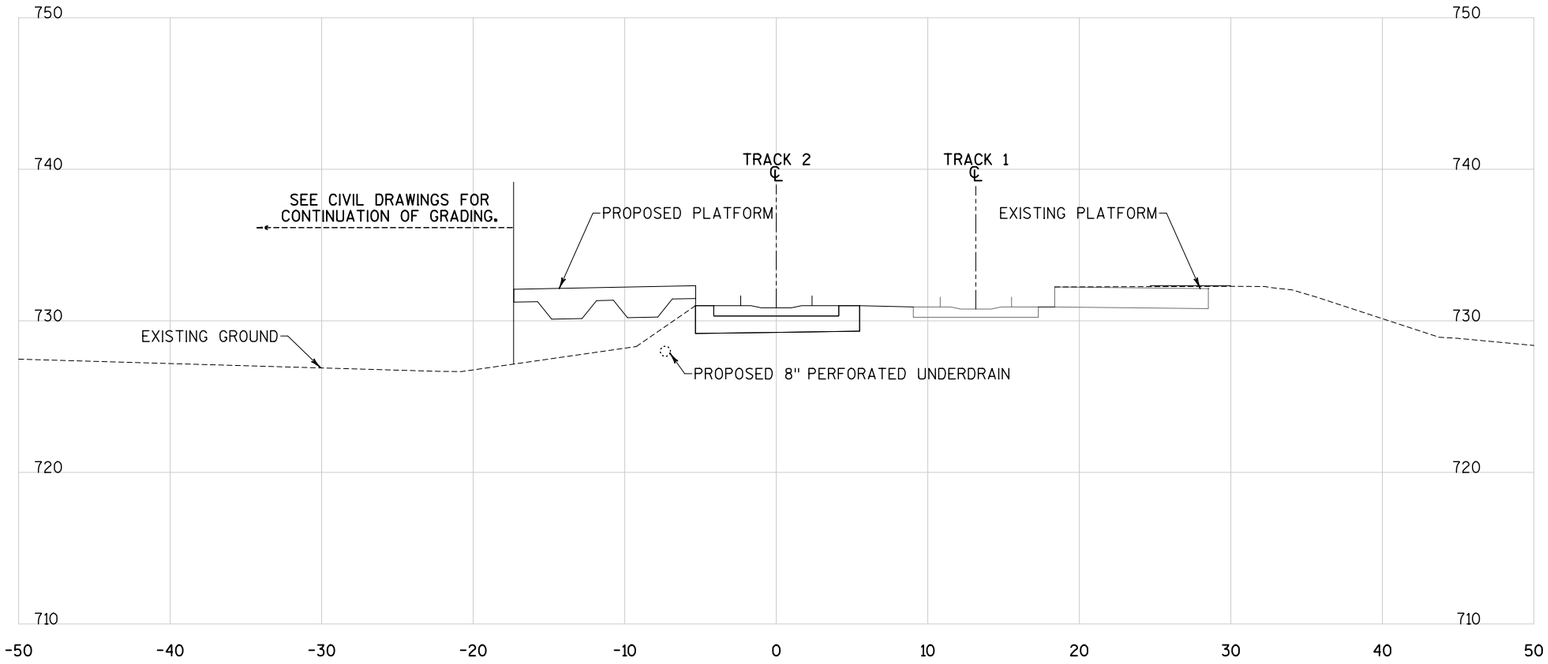
STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
						NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
00+00	0.00	0.00	0.13	0.00	0.04	0	0	0	0	0	0
00+25	25.00	25.00	1.65	0.00	0.00	1	0	0	1	0	1
00+50	50.00	25.00	8.02	0.00	0.13	4	0	0	5	0	5
00+75	75.00	25.00	10.21	0.00	0.85	8	0	0	13	0	13
01+00	100.00	25.00	1.22	0.00	3.13	5	0	2	18	3	16
01+05.593	105.59	5.59	3.82	0.00	19.15	1	0	2	19	5	14
				TOTAL		19	0	4			

PROJECT NUMBER: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	EARTHWORK DATA	SHEET NO: PRE_73

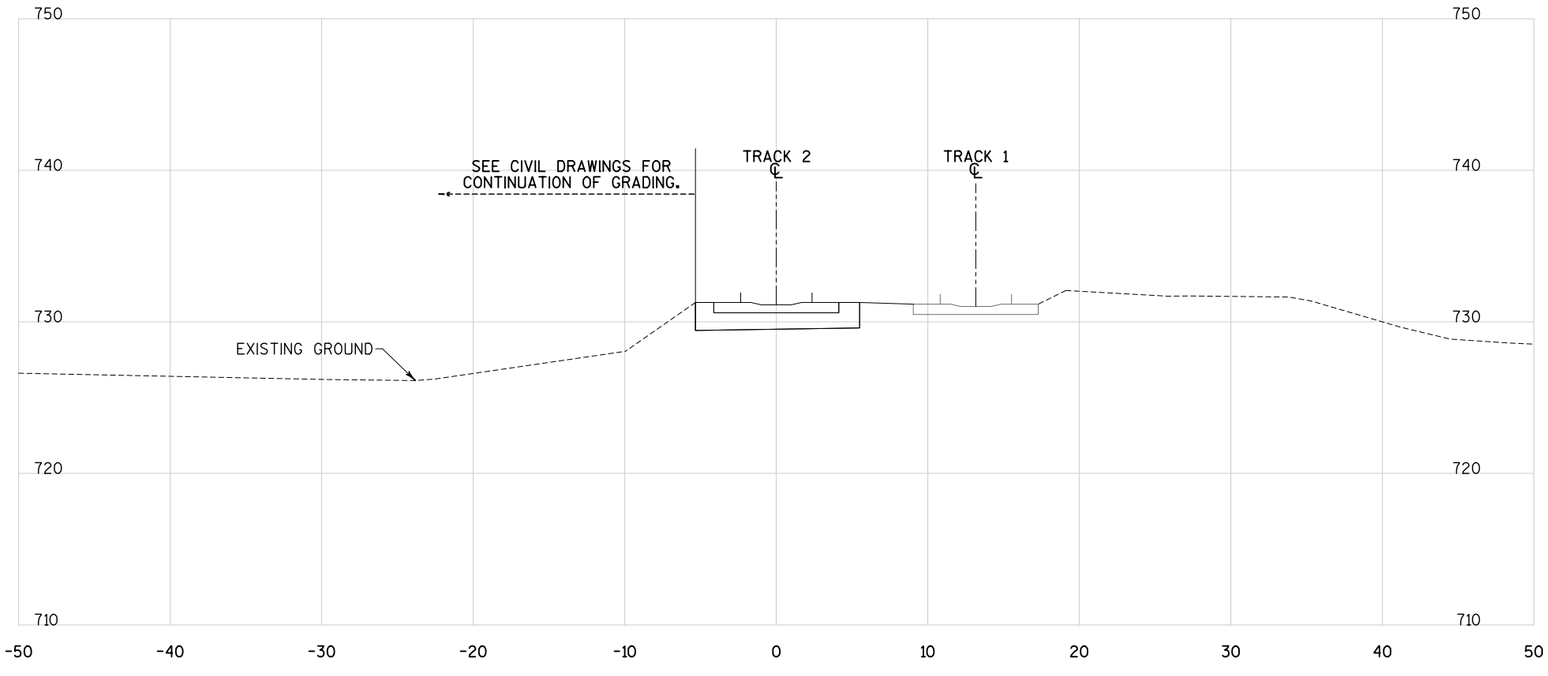
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS20_NA_2019\Documents\60618829-MKE Rail Station\900-CAD GIS\Road\60618829\SheetsPlan\090200_ew.pptx

ORIGINATOR: JESSICA LANCELLE

PLOTTED DATE: 1/20/2022 8:18 PM



100+00



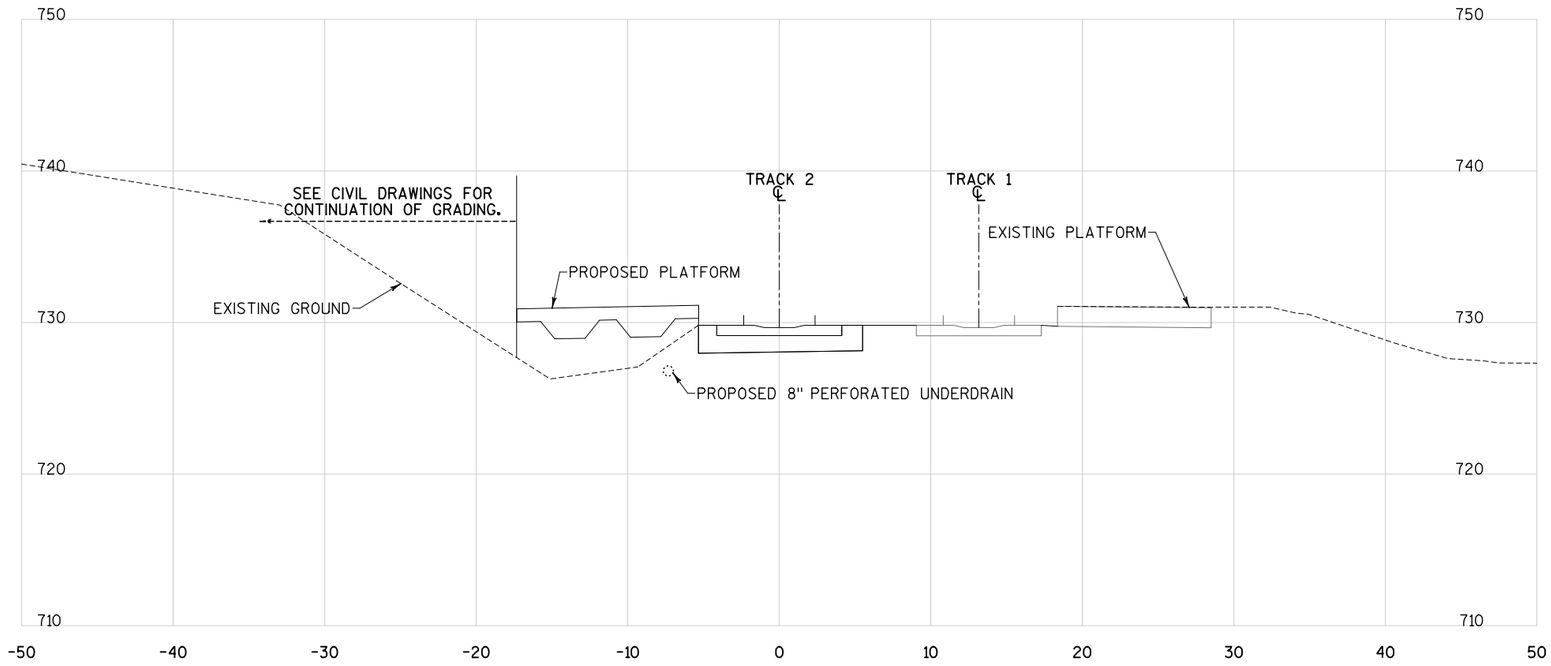
99+50

9

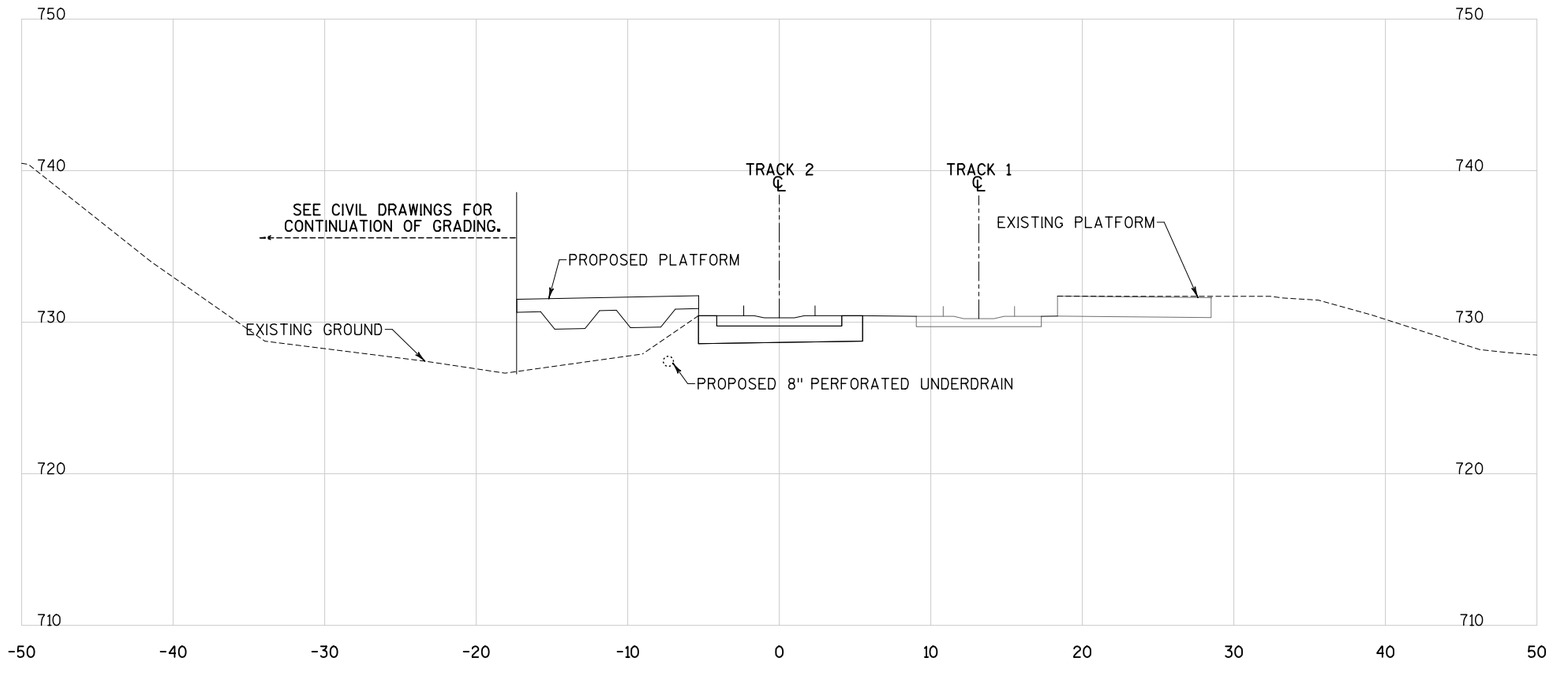
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PROJECT NO:1000-57-05	HWY:N/A	COUNTY:MILWAUKEE	CROSS SECTIONS - 99+50 TO 100+00	SHEET E

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.



102+00

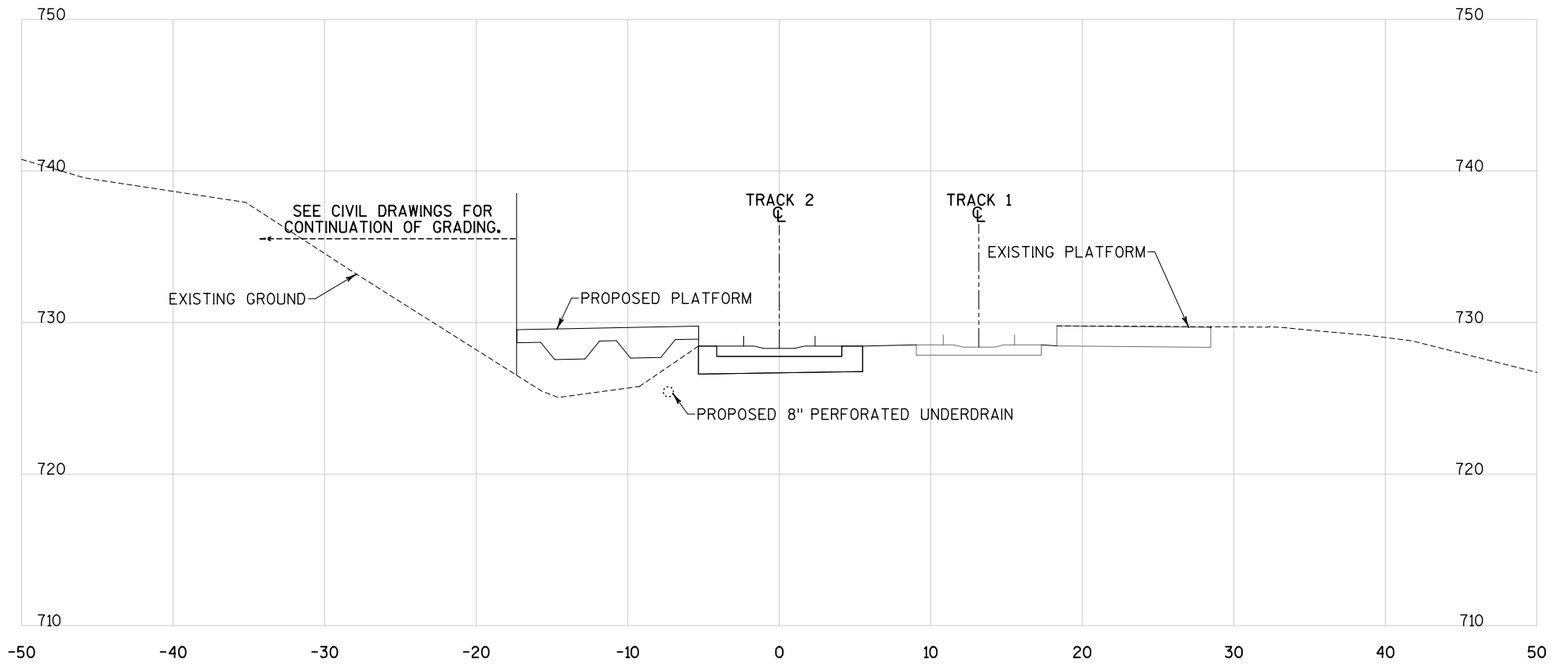


101+00

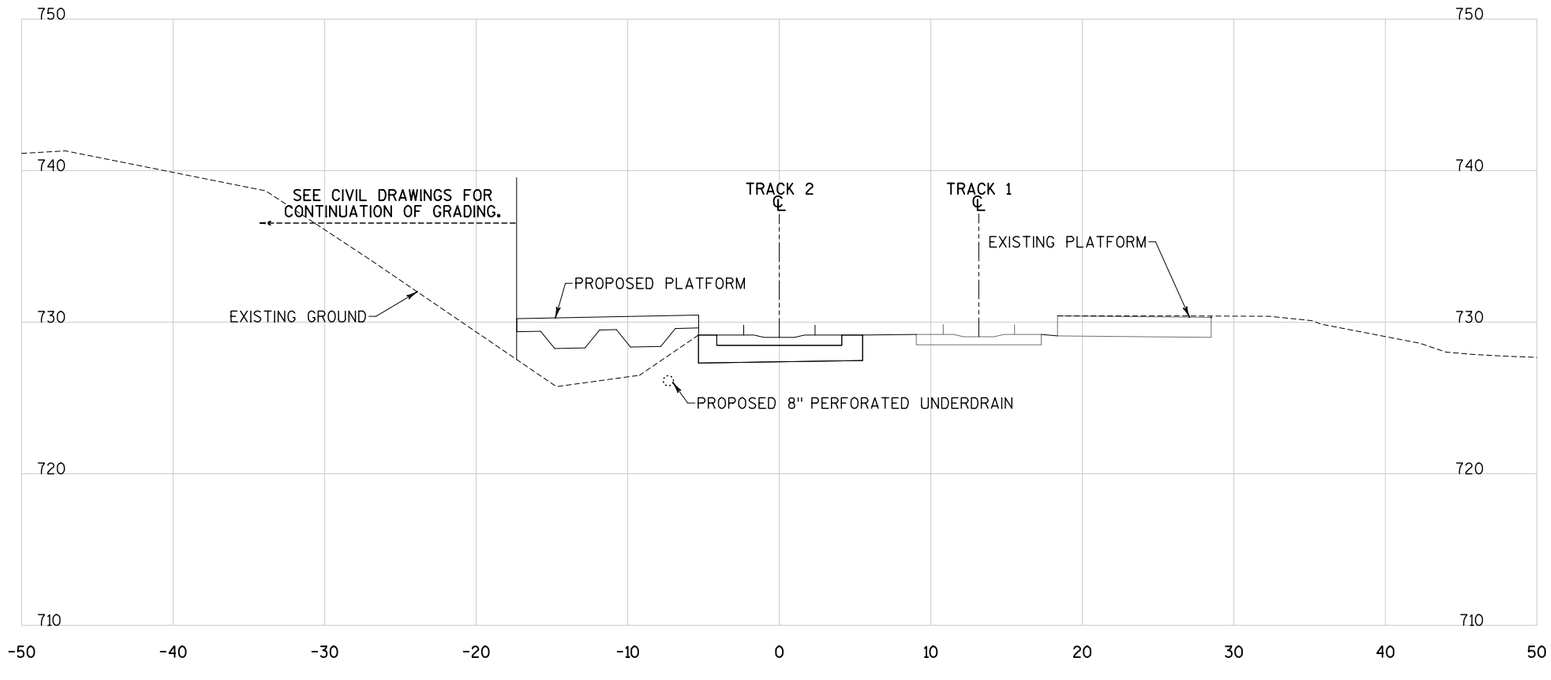
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PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS - 101+00 TO 102+00	SHEET E



104+00

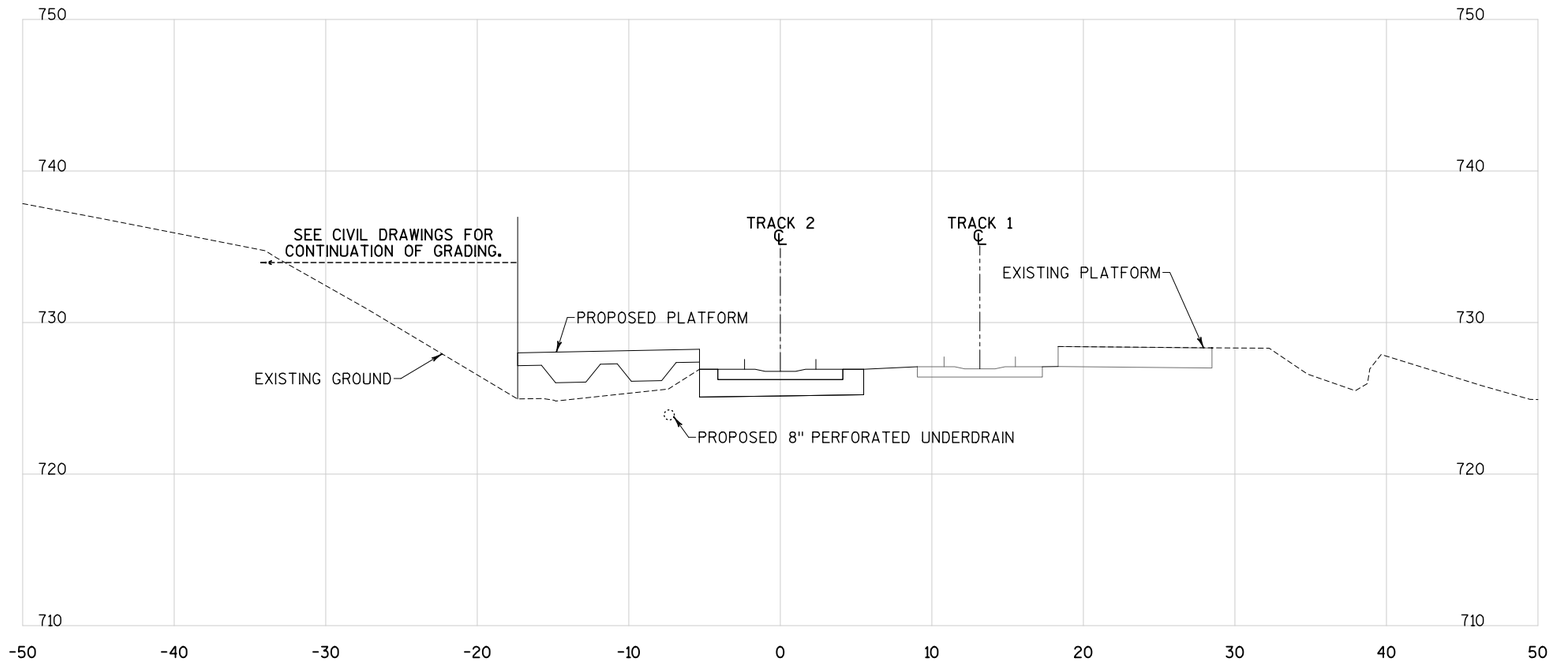


103+00

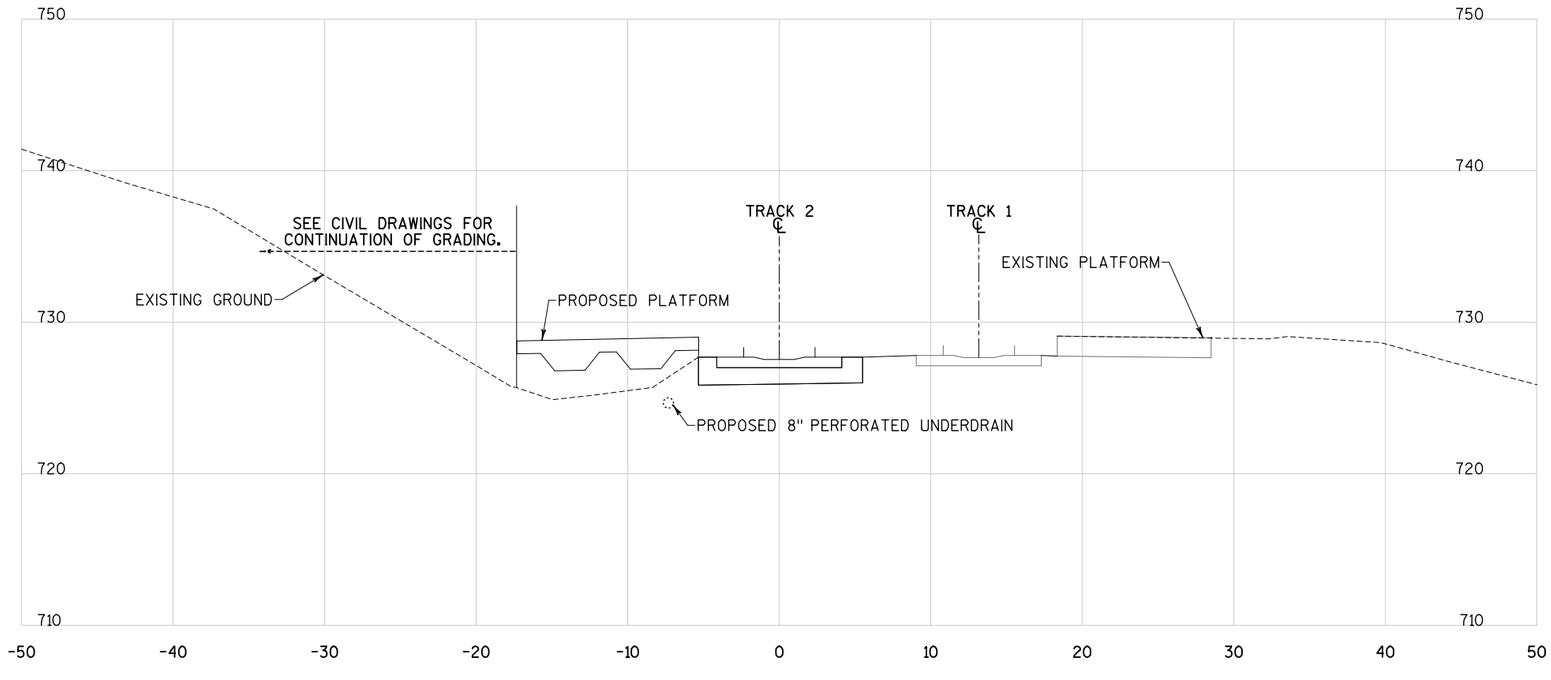
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PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS - 103+00 TO 104+00	SHEET E



106+00



105+00

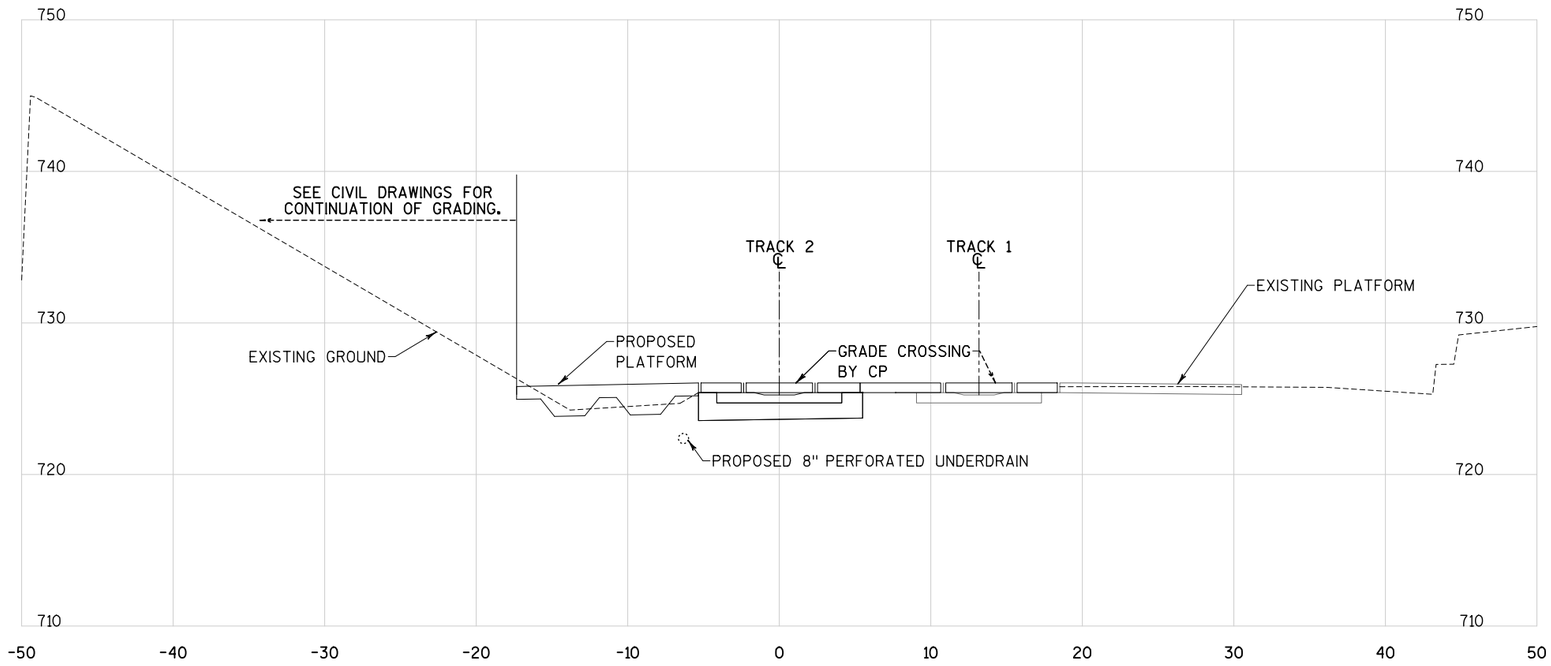
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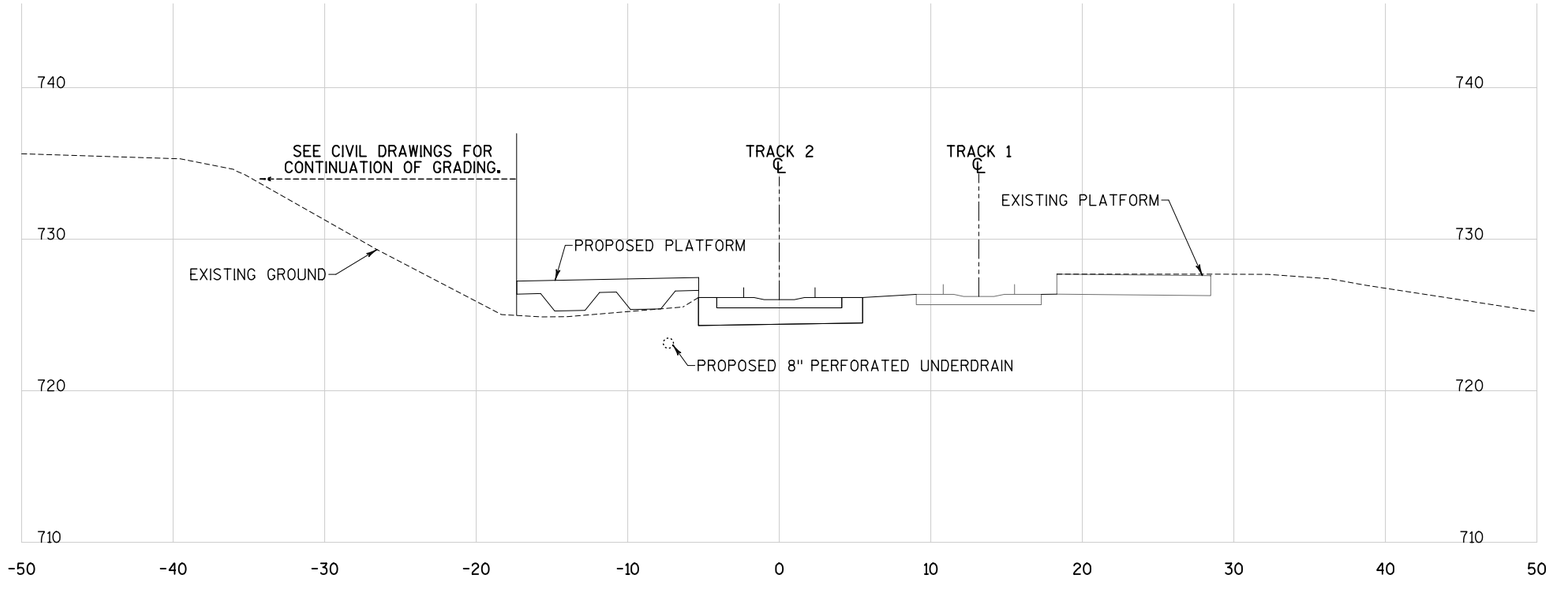
PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS - 105+00 TO 106+00	SHEET E

PRE_77

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.



107+90



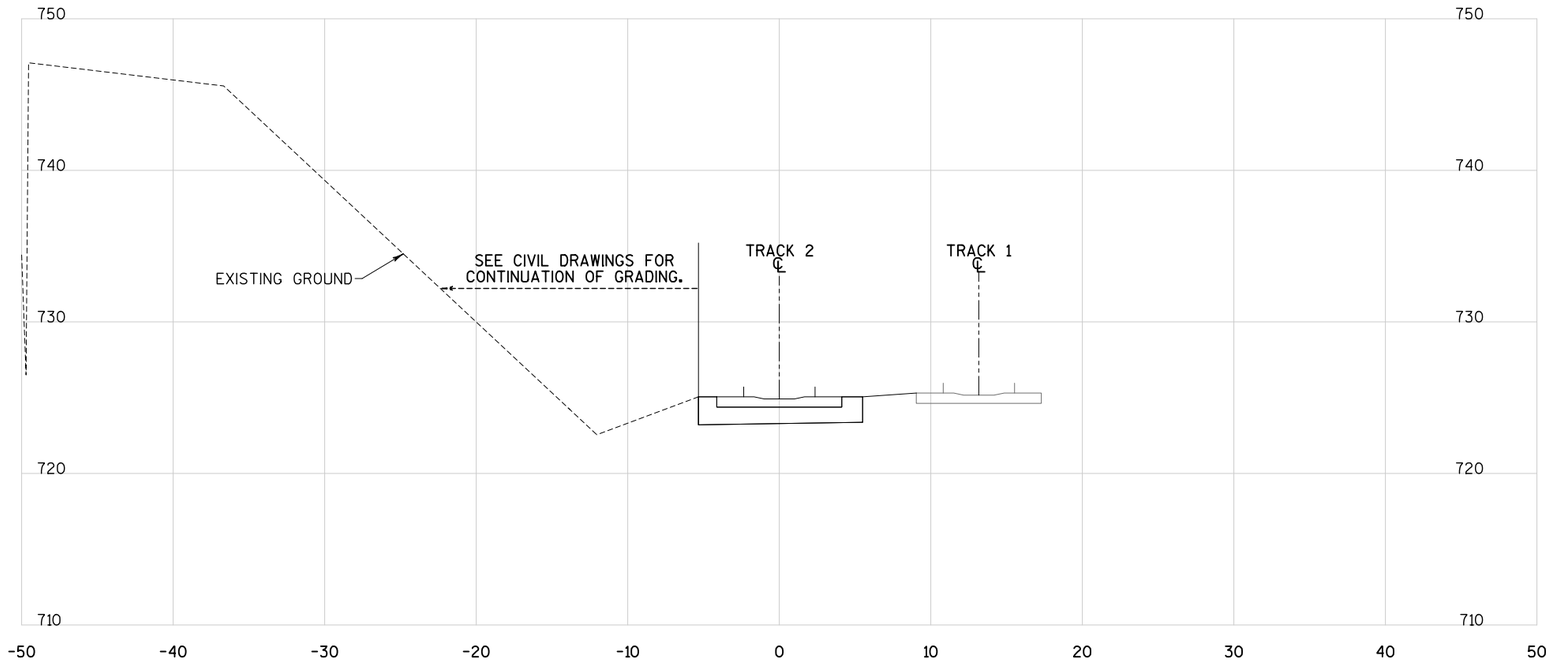
107+00

9

9

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS - 107+00 TO 107+90	SHEET E

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.



108+50

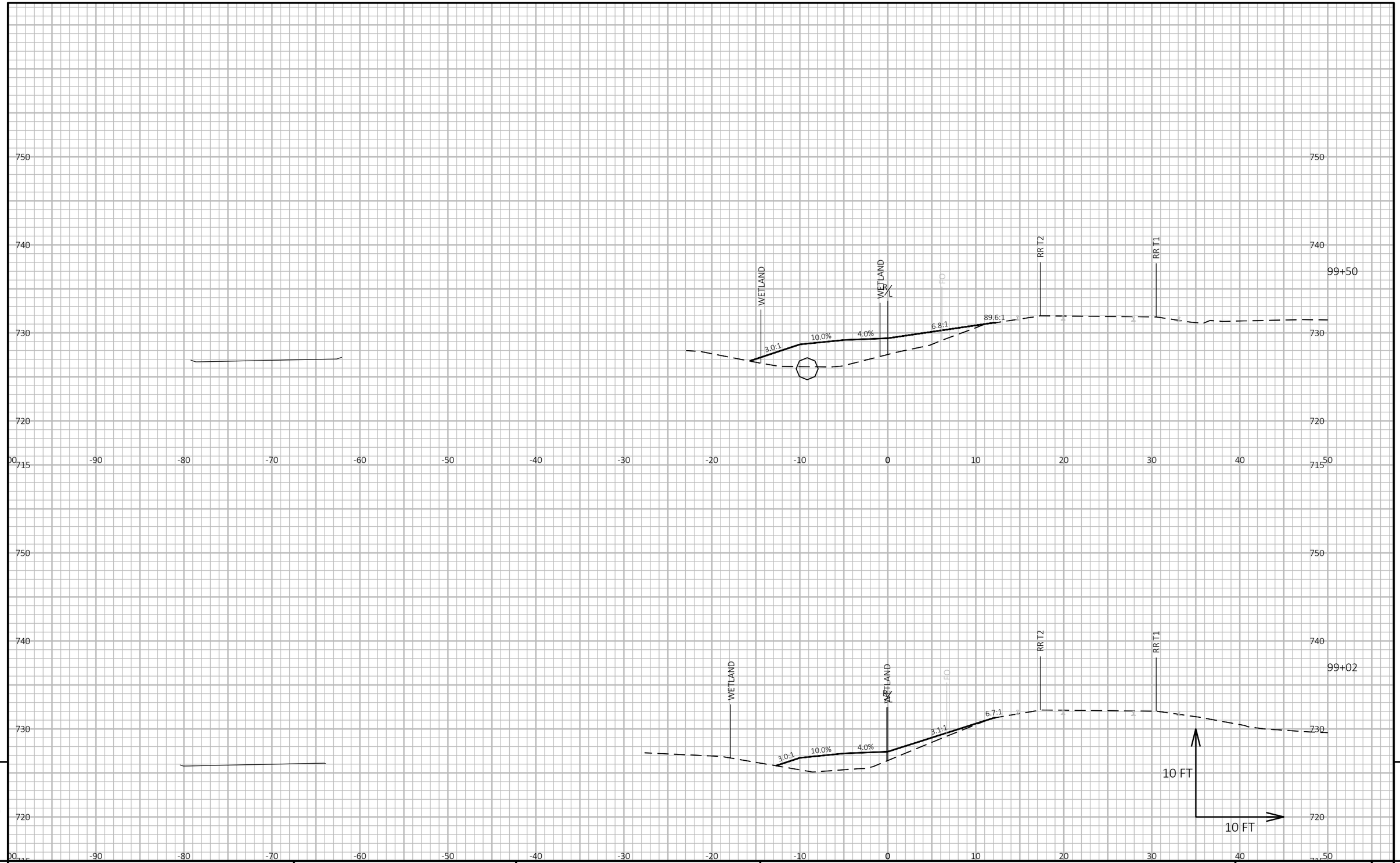
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9

PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS - 108+50	SHEET E

PRE_79

FILE NAME : c:\pwworking\aecom_ds20_na_2019\bridget.courtney@aecom.com\d0136469\Track Plan Sheet.dgn PLOT DATE : 1/27/2022 PLOT BY : bridget.courtney PLOT NAME : PLOT SCALE : 100.0000 sf / in.



9

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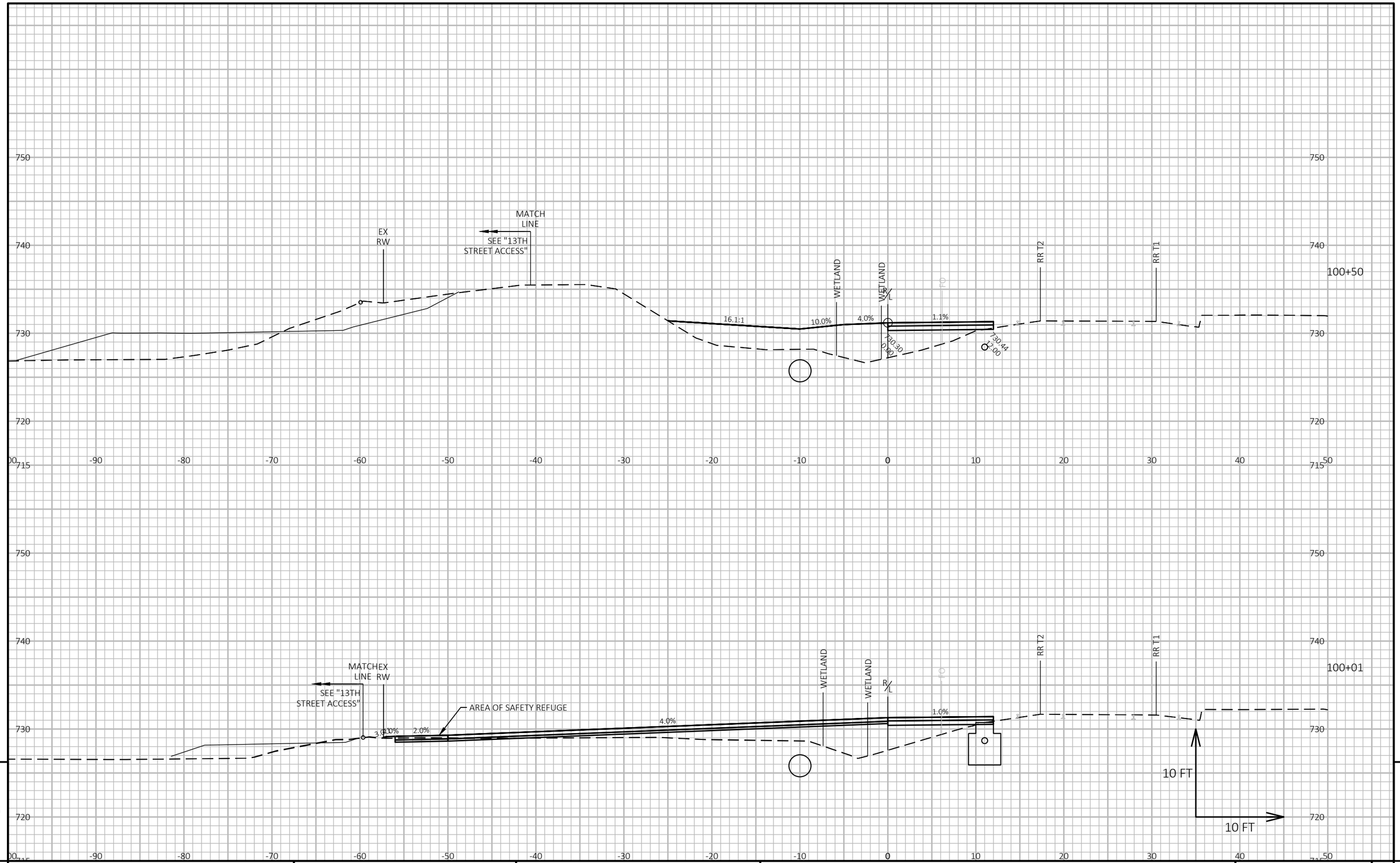
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_80

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 1/27/2022 10:29 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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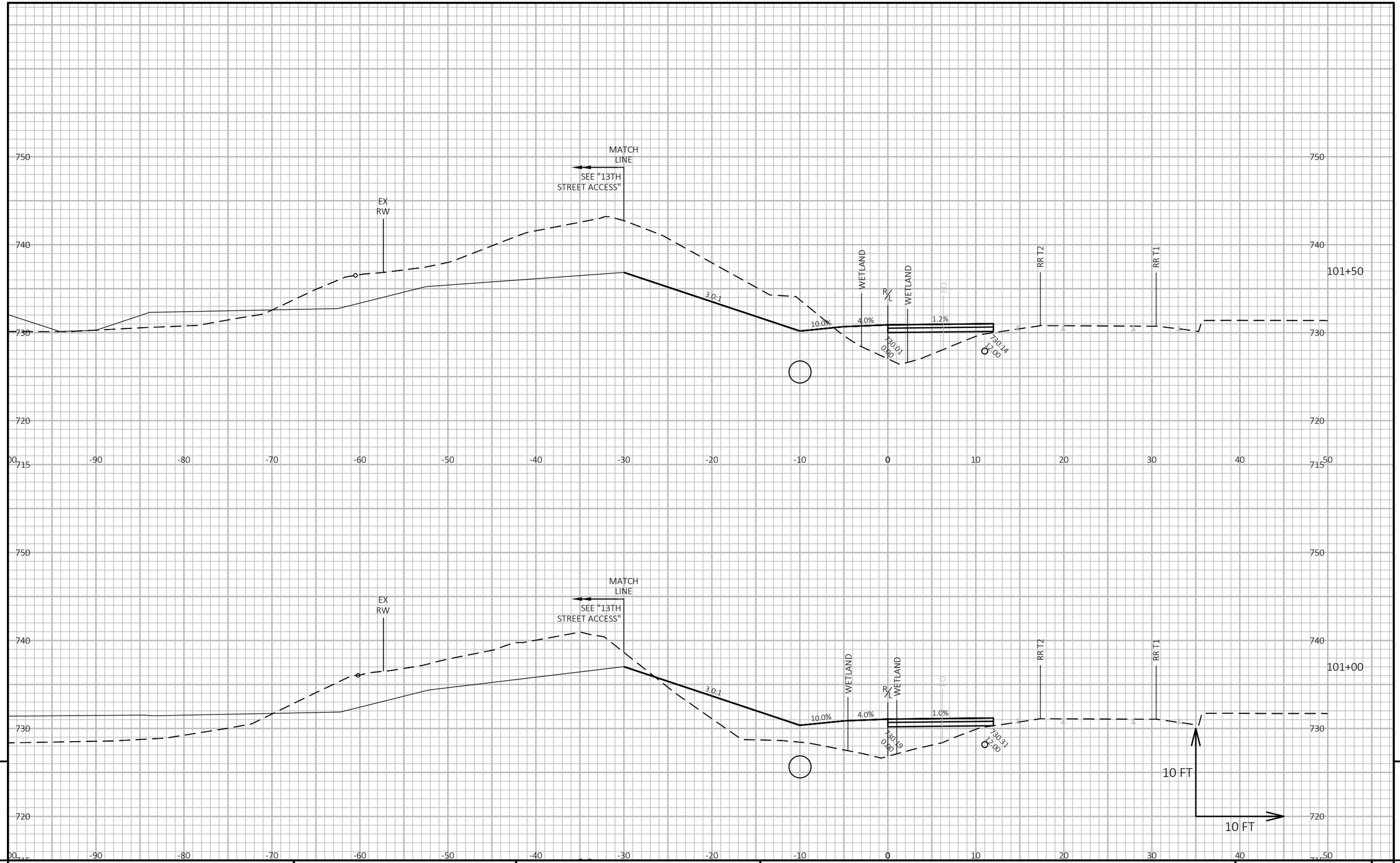
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_81

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 1/27/2022 10:29 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

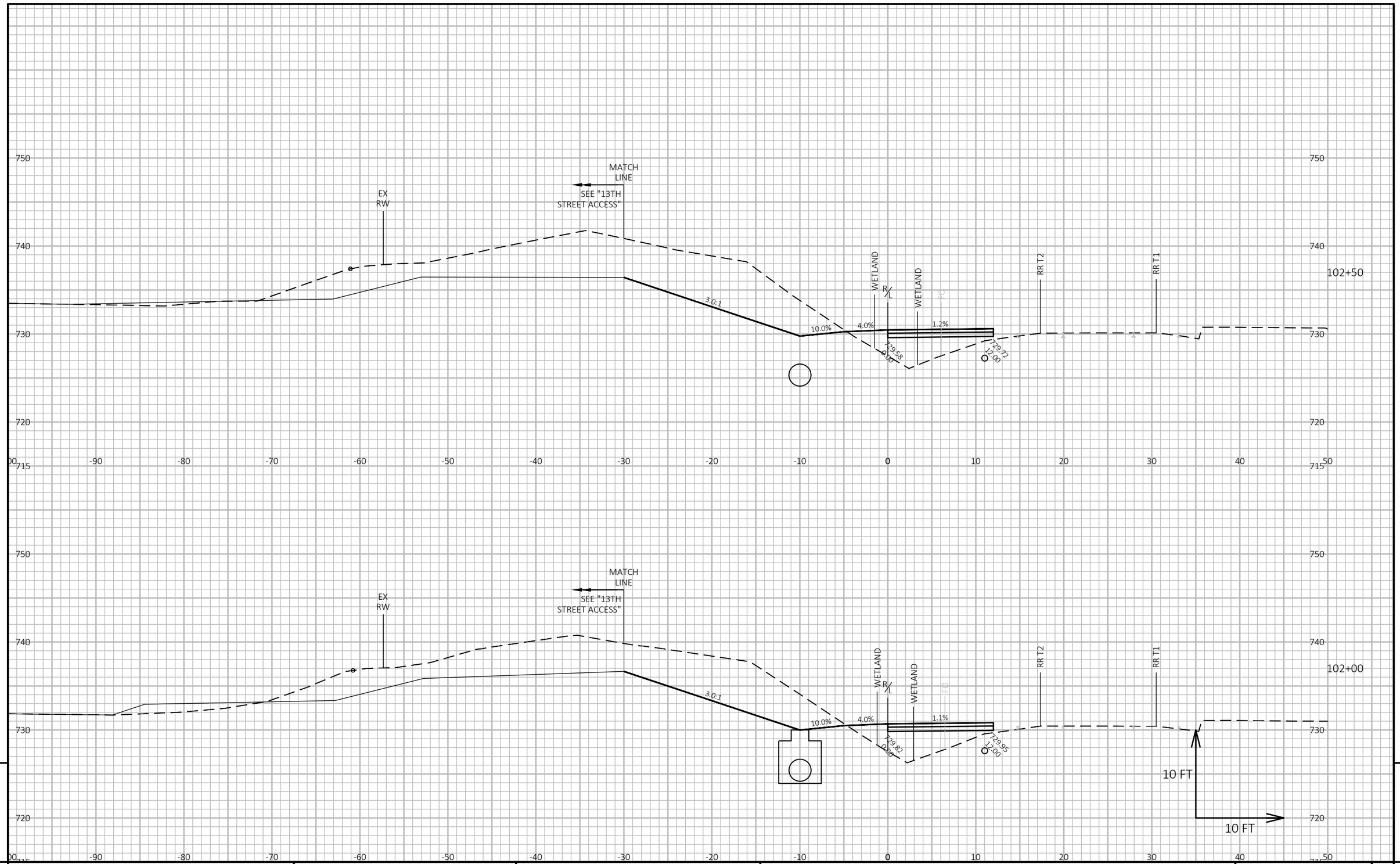
PRE_82

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LAYOUT NAME - 09

PLOT DATE : 1/27/2022 10:29 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9 9

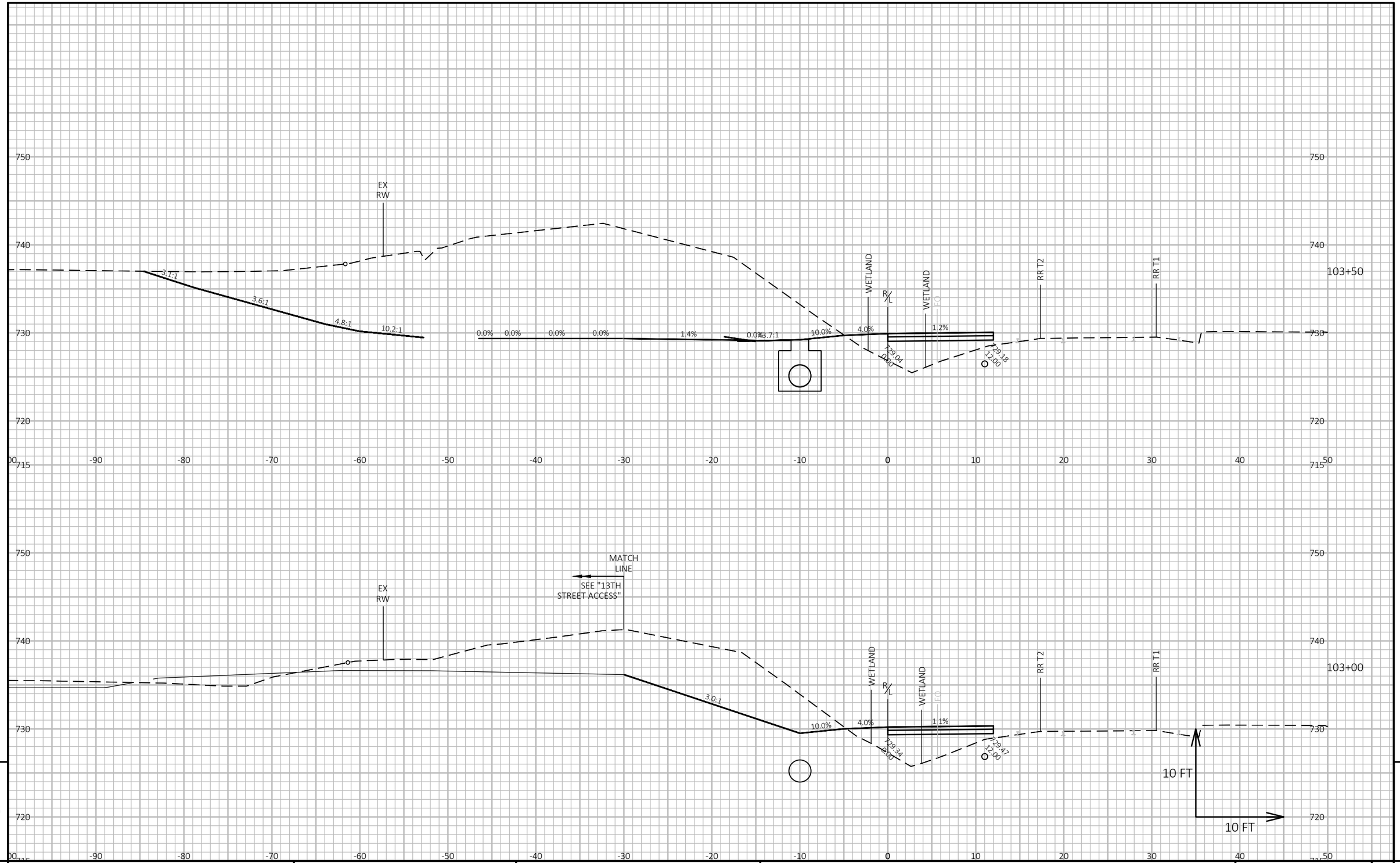
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_83

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 10

PLOT DATE : 1/27/2022 10:29 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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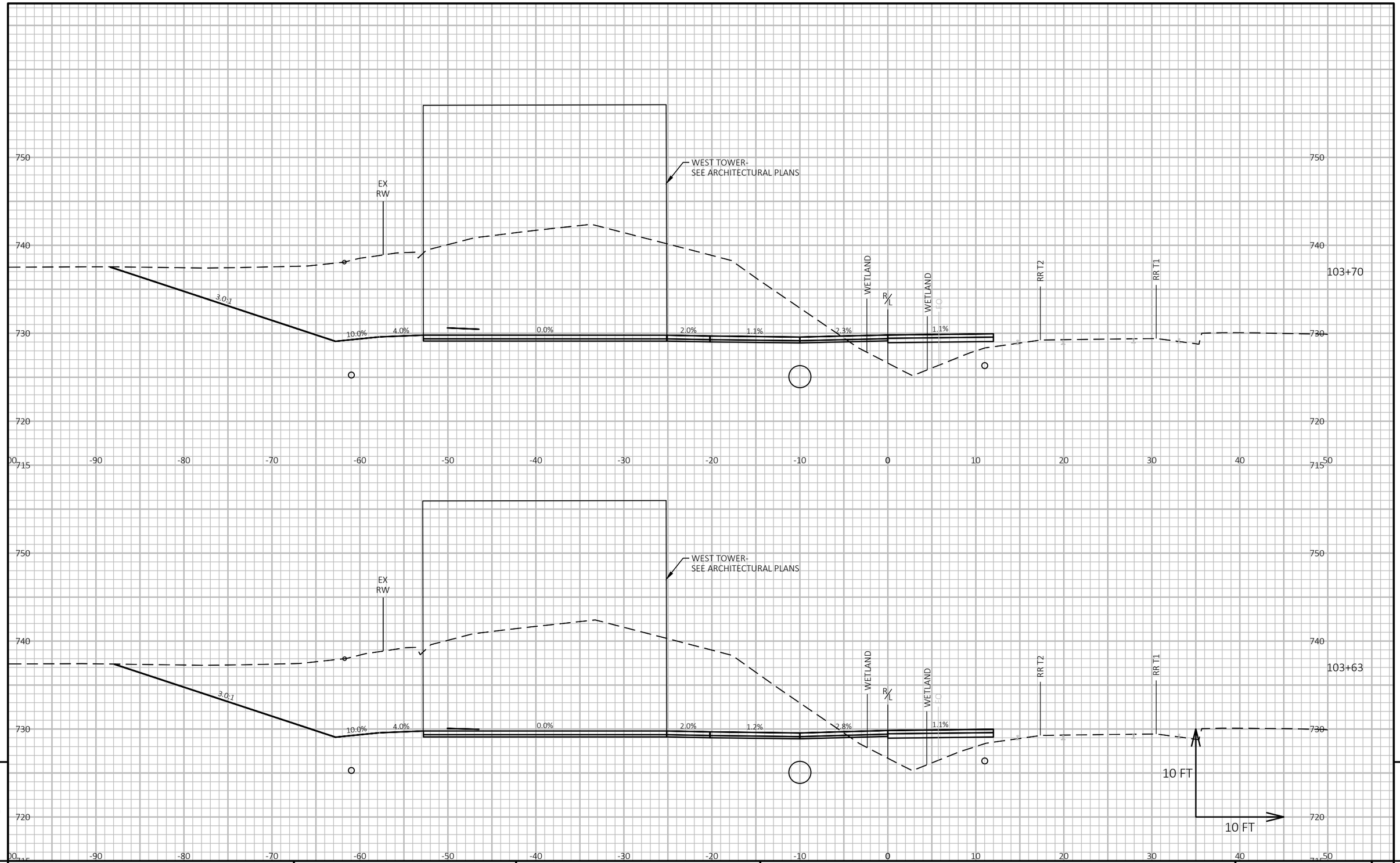
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_84

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 11

PLOT DATE : 1/27/2022 10:29 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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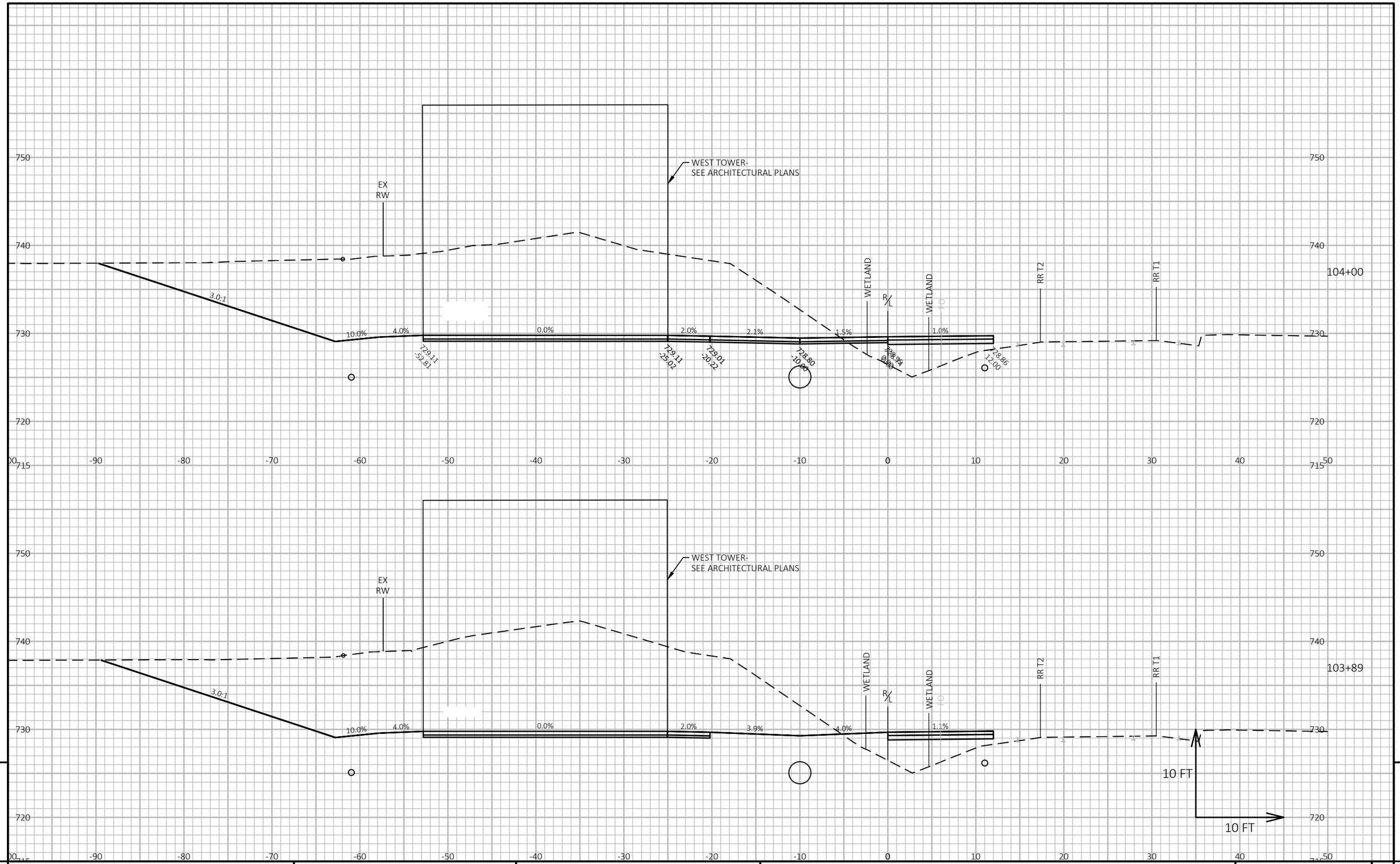
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_85

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 12

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

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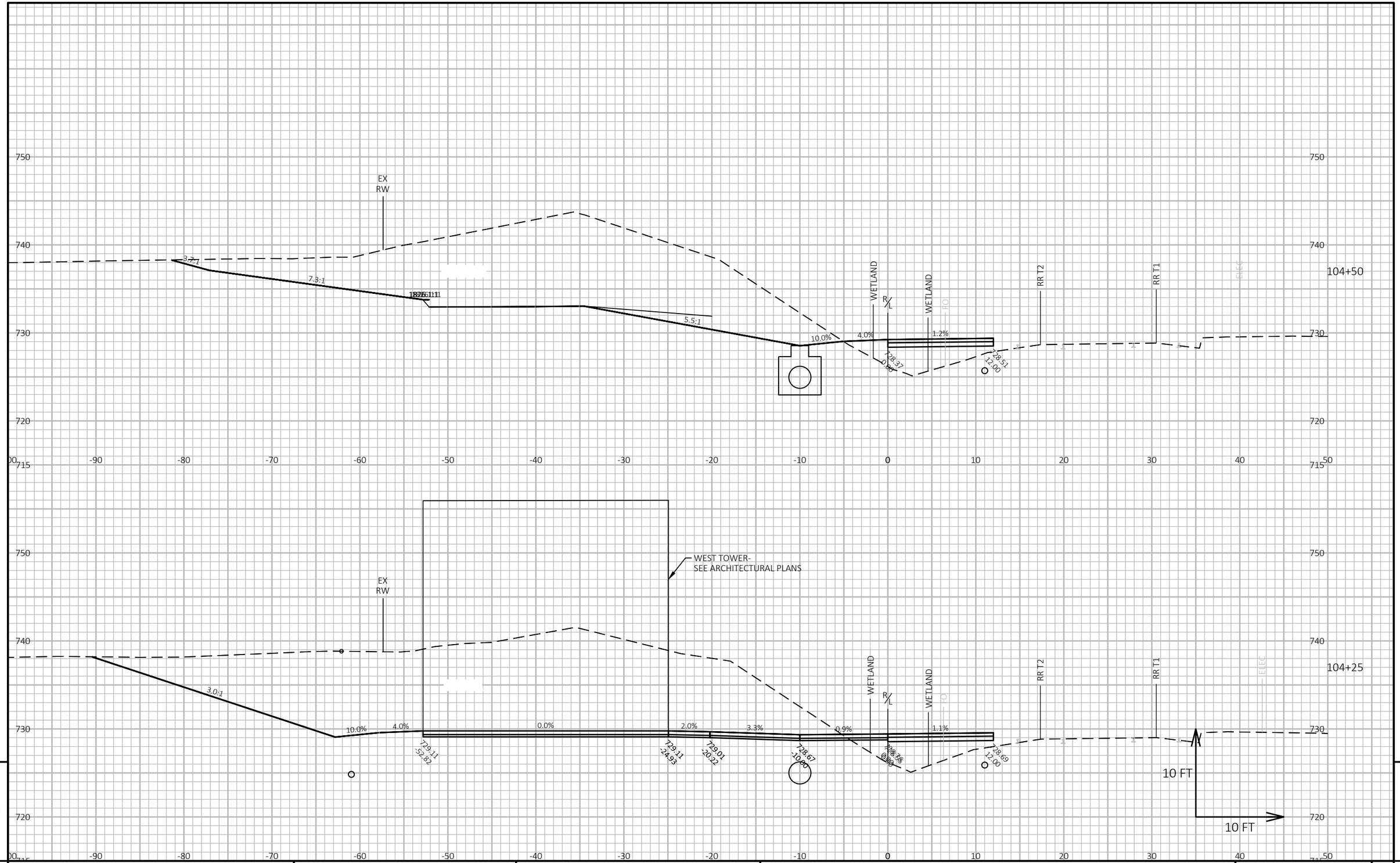
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_86

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 13

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



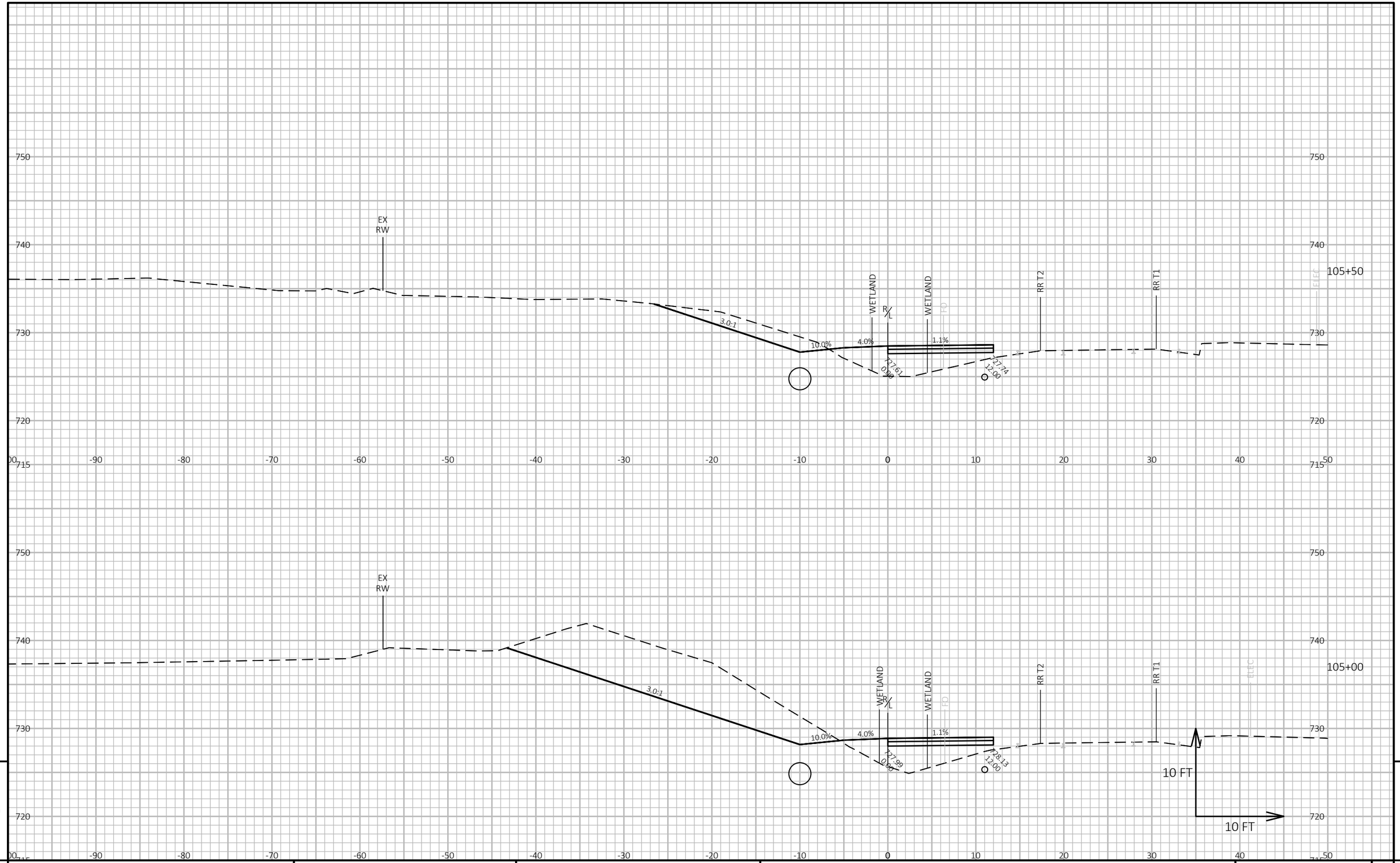
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 14

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_87

WISDOT/CADDS SHEET 49



9

9

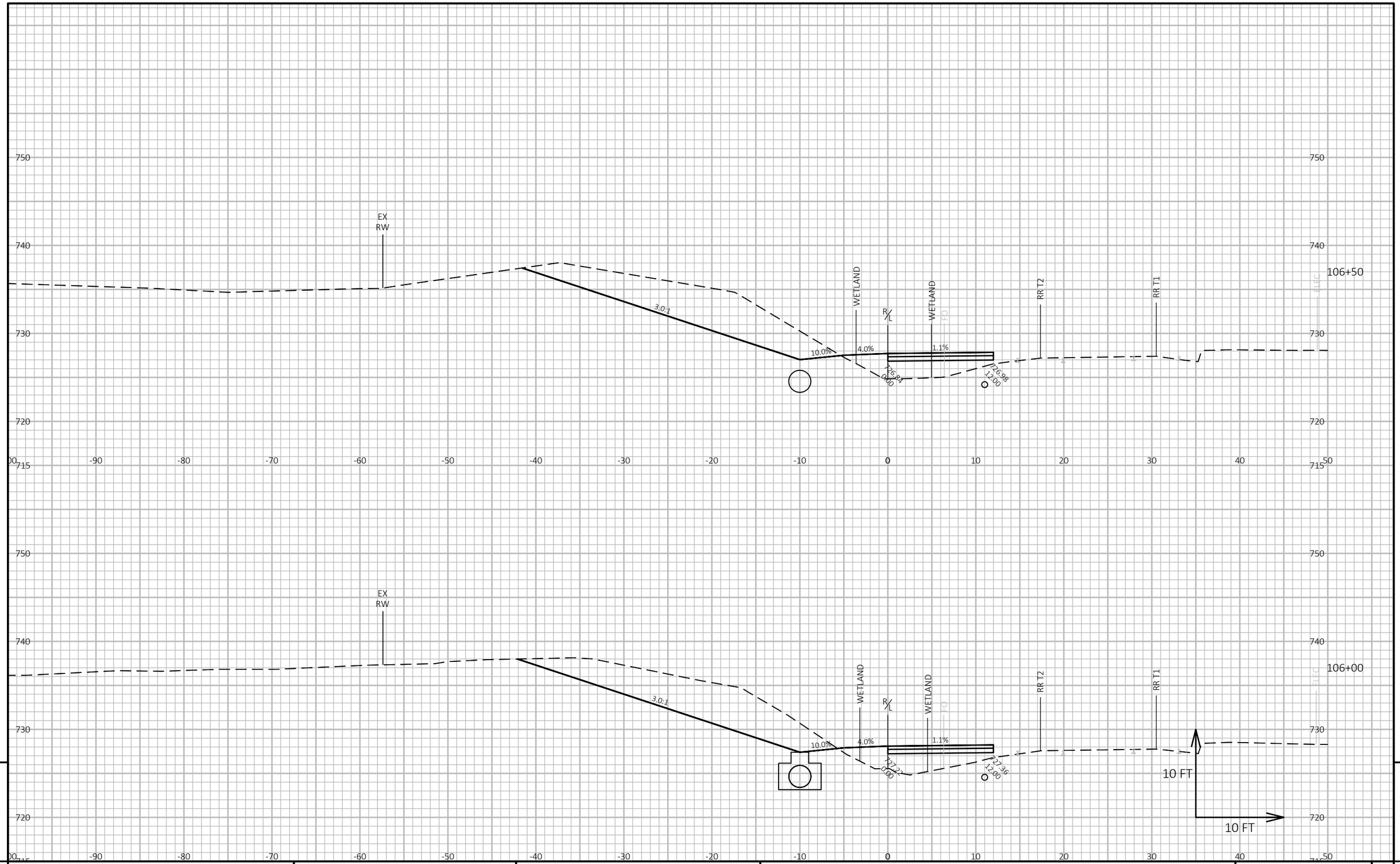
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_88

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 15

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

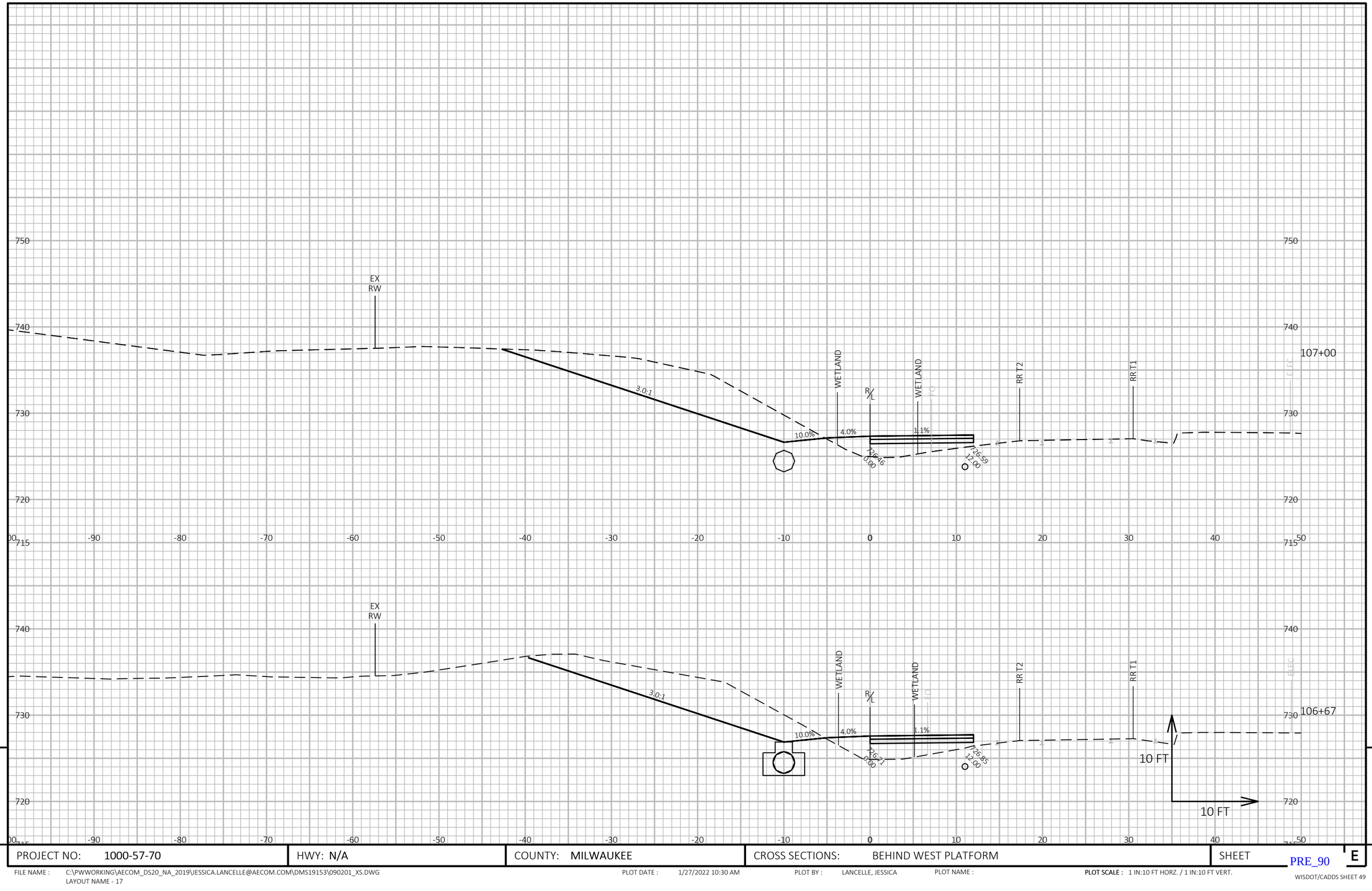
PRE_89

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 16

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



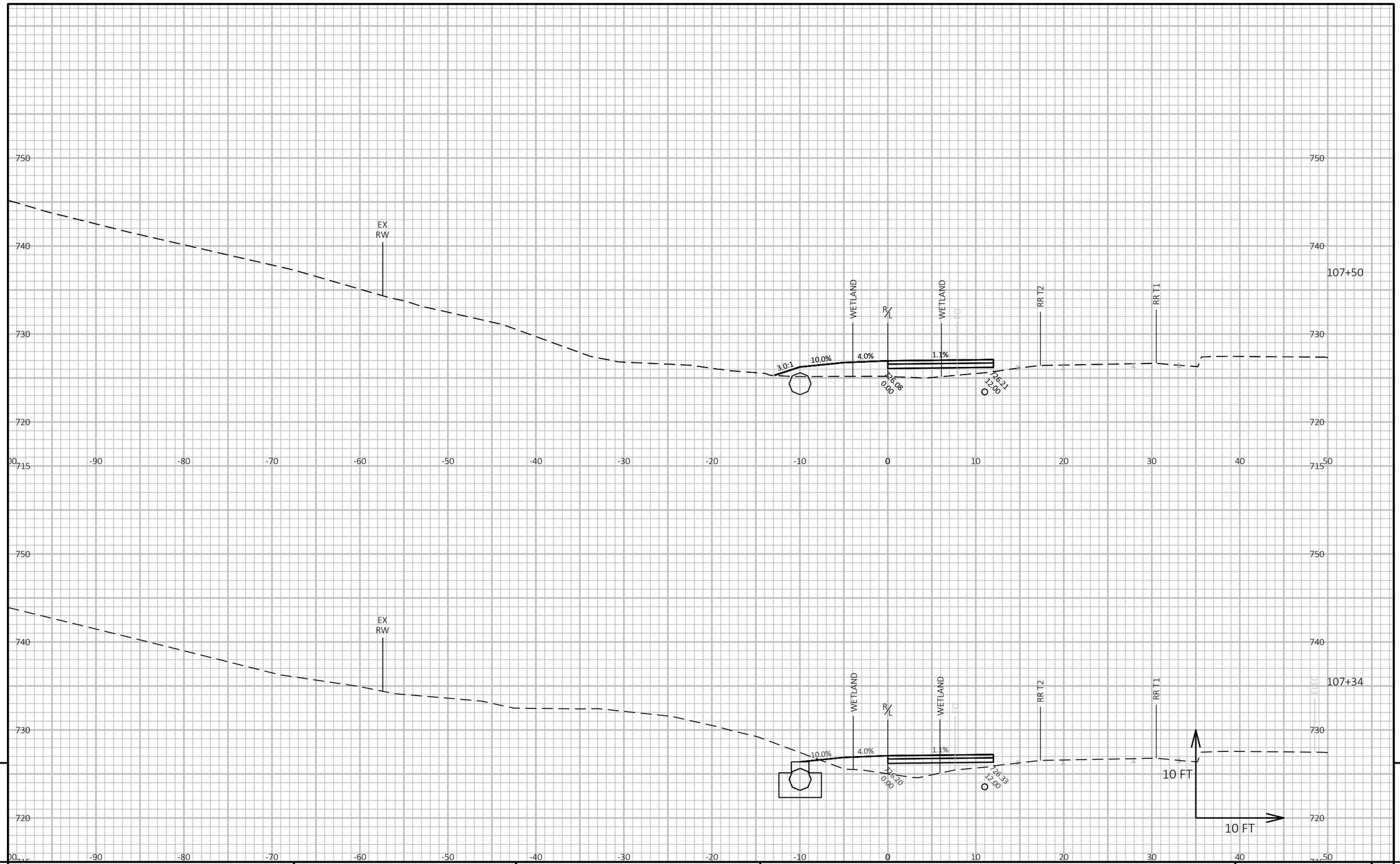
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_90

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 17

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

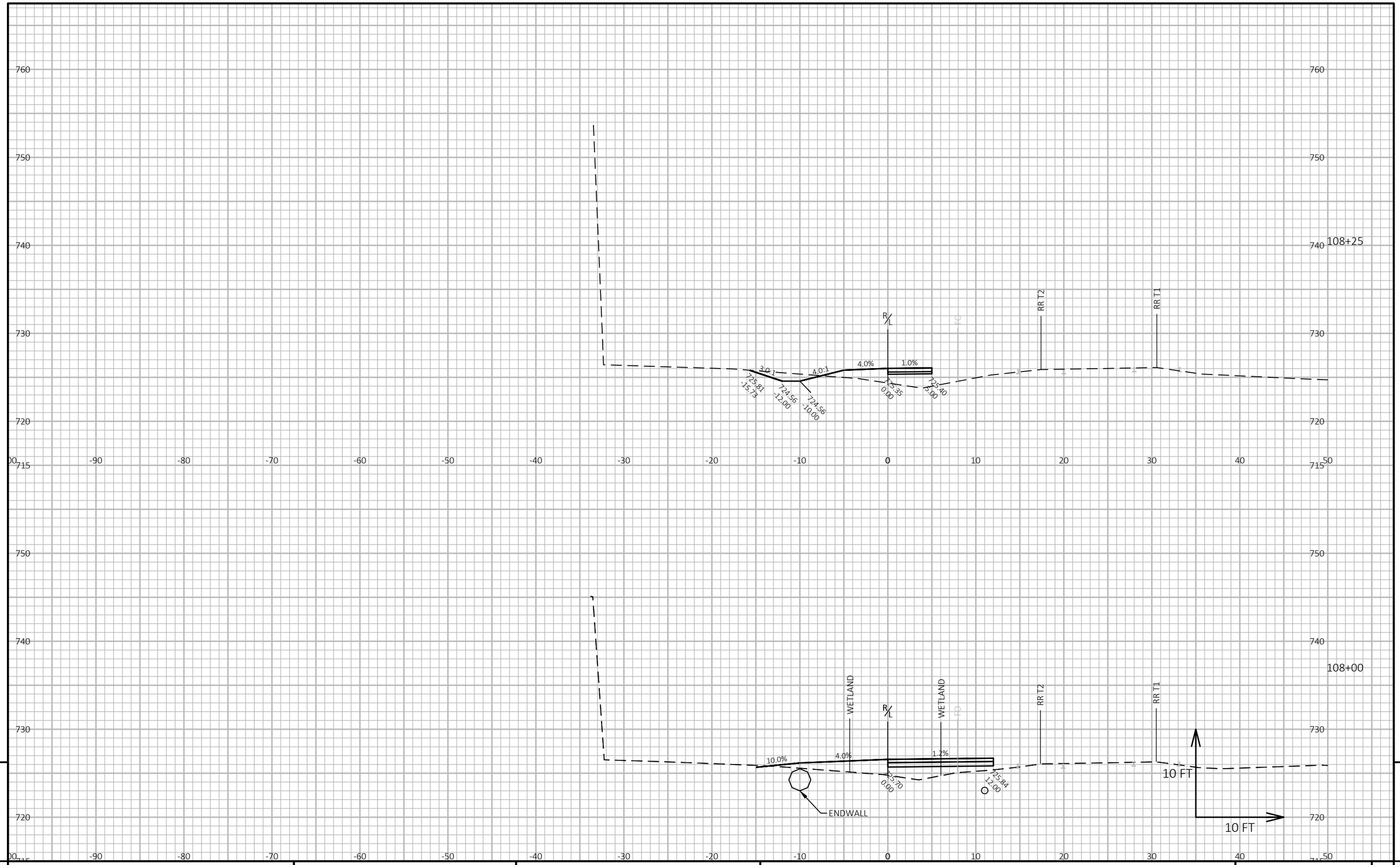
PRE_91

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 18

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

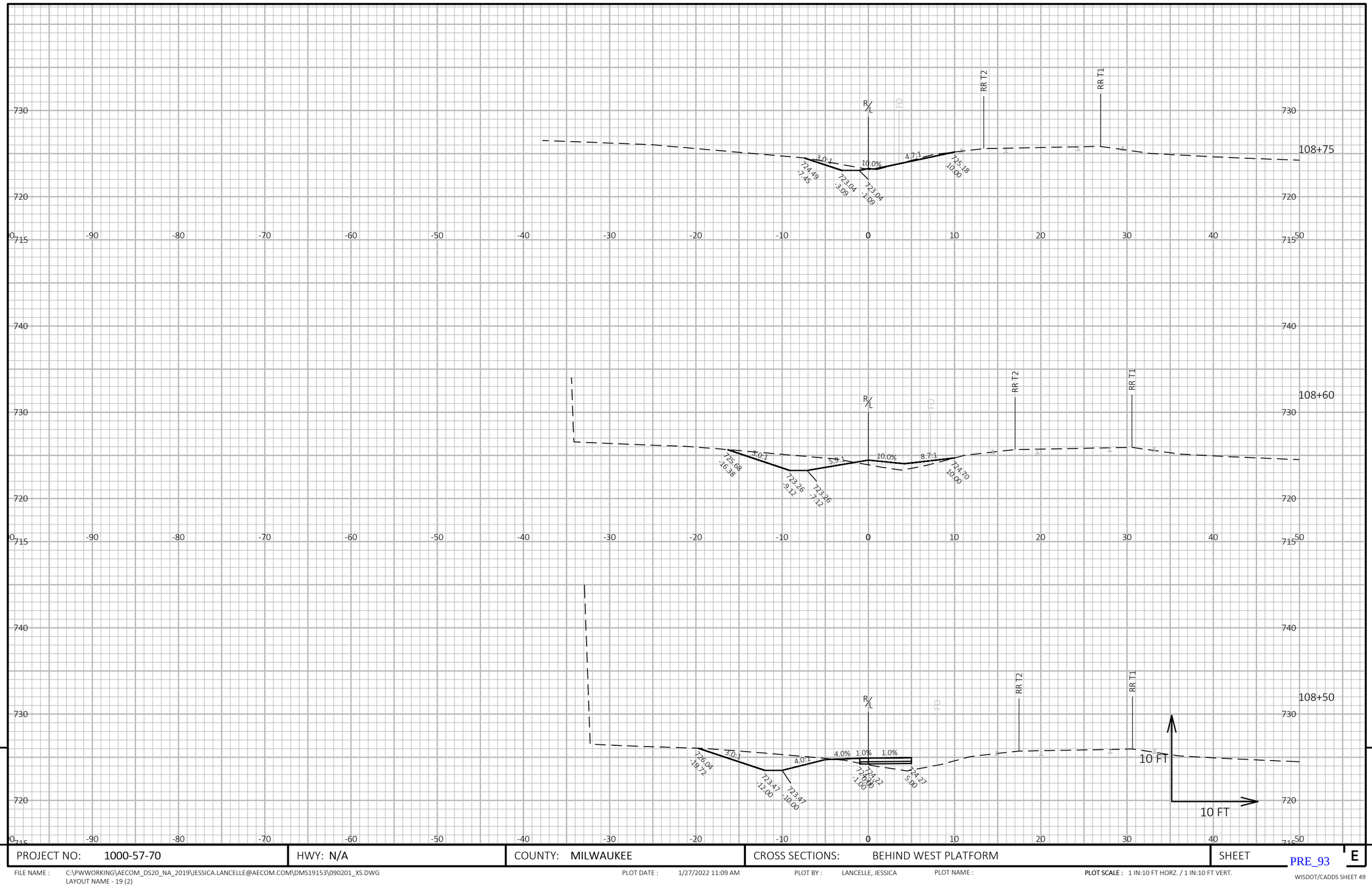
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_92

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 19

PLOT DATE : 1/27/2022 10:30 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

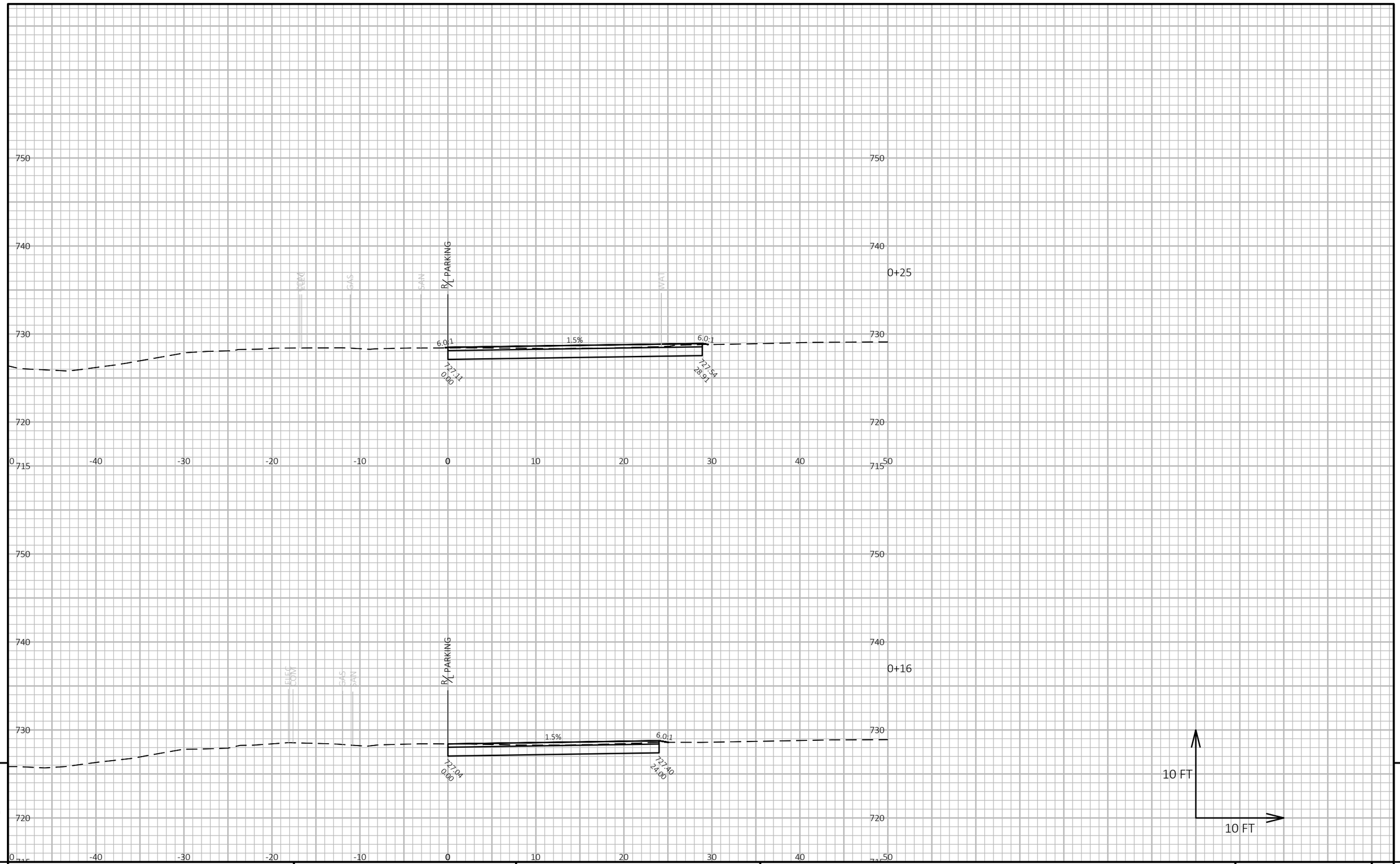
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND WEST PLATFORM	SHEET E

PRE_93

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090201_XS.DWG
LAYOUT NAME - 19 (2)

PLOT DATE : 1/27/2022 11:09 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: PERSONNEL PARKING	SHEET E

PRE_94

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 14

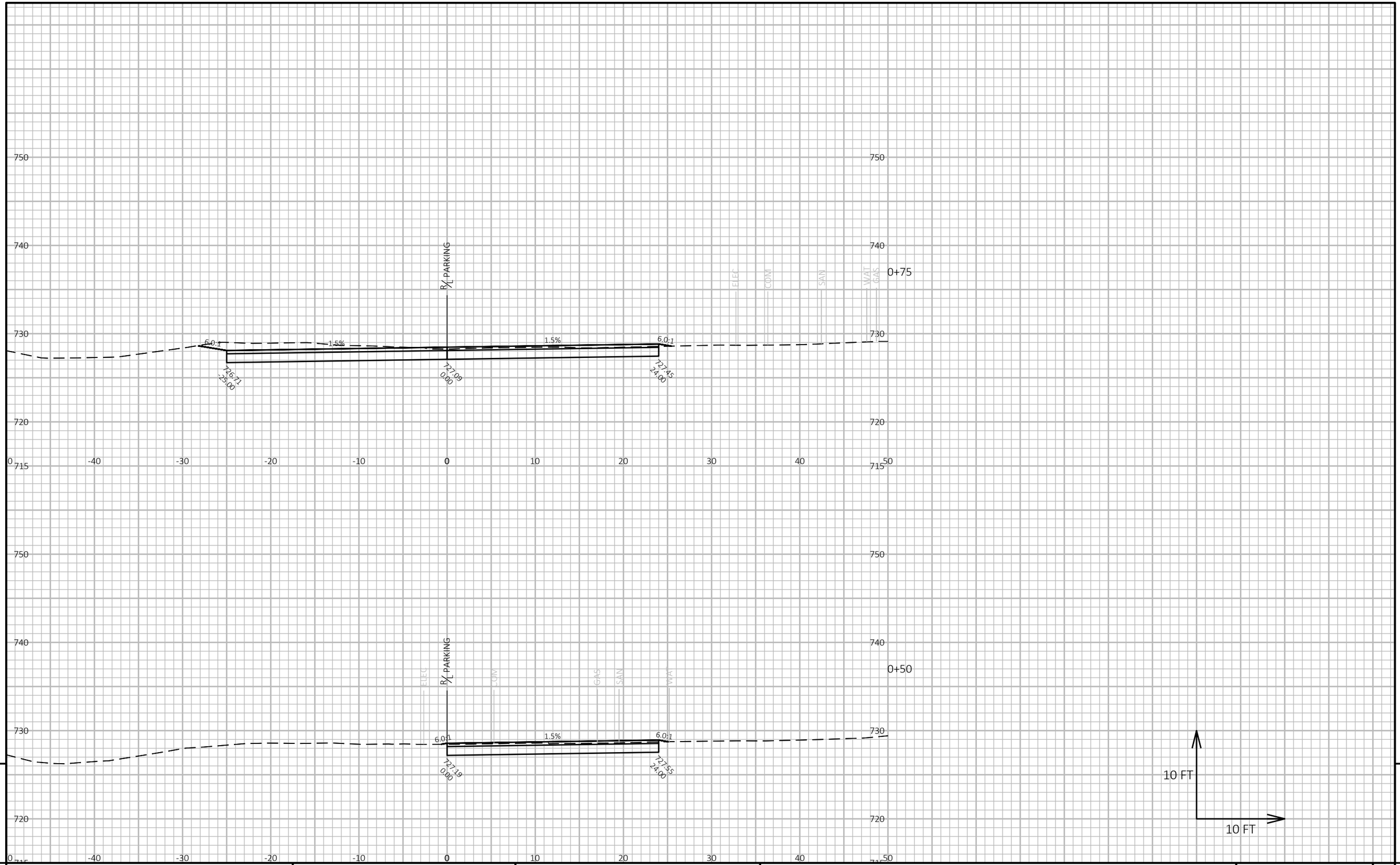
PLOT DATE : 1/19/2022 9:58 AM

PLOT BY : LANCELLE, JESSICA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: PERSONNEL PARKING	SHEET E

PRE_95

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 15

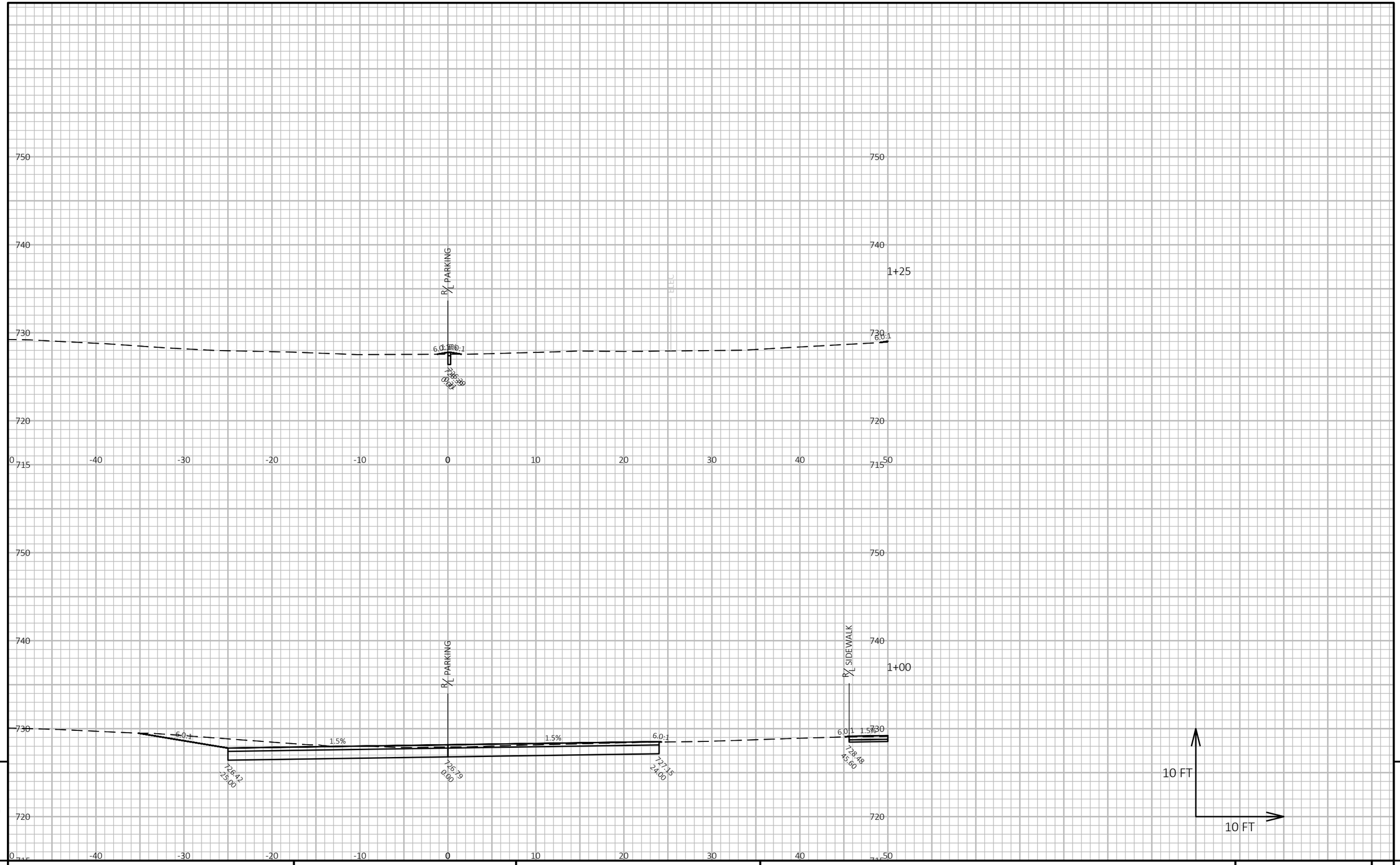
PLOT DATE : 1/19/2022 9:58 AM

PLOT BY : LANCELLE, JESSICA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: PERSONNEL PARKING	SHEET E

PRE_96

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 16

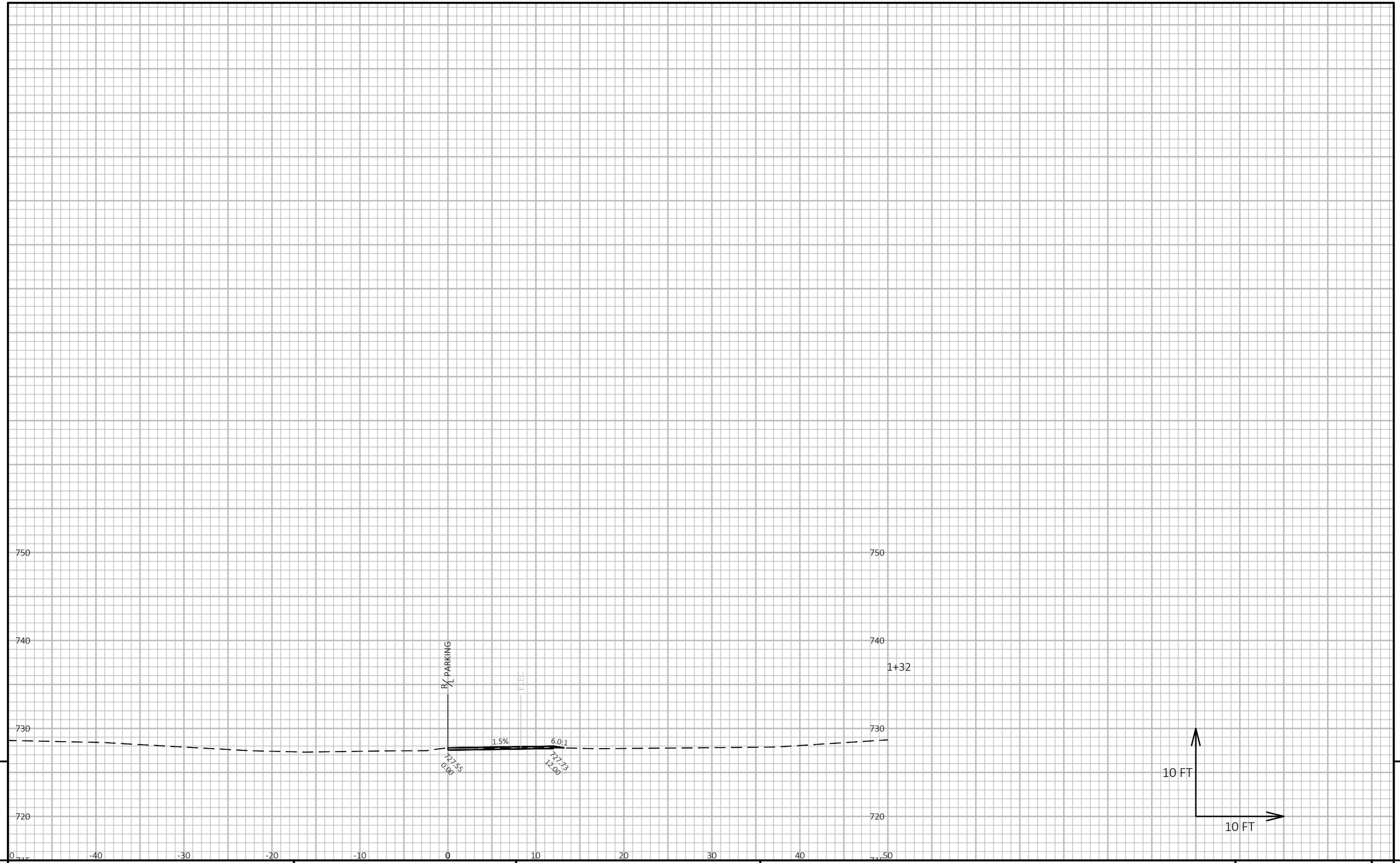
PLOT DATE : 1/19/2022 9:58 AM

PLOT BY : LANCELLE, JESSICA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

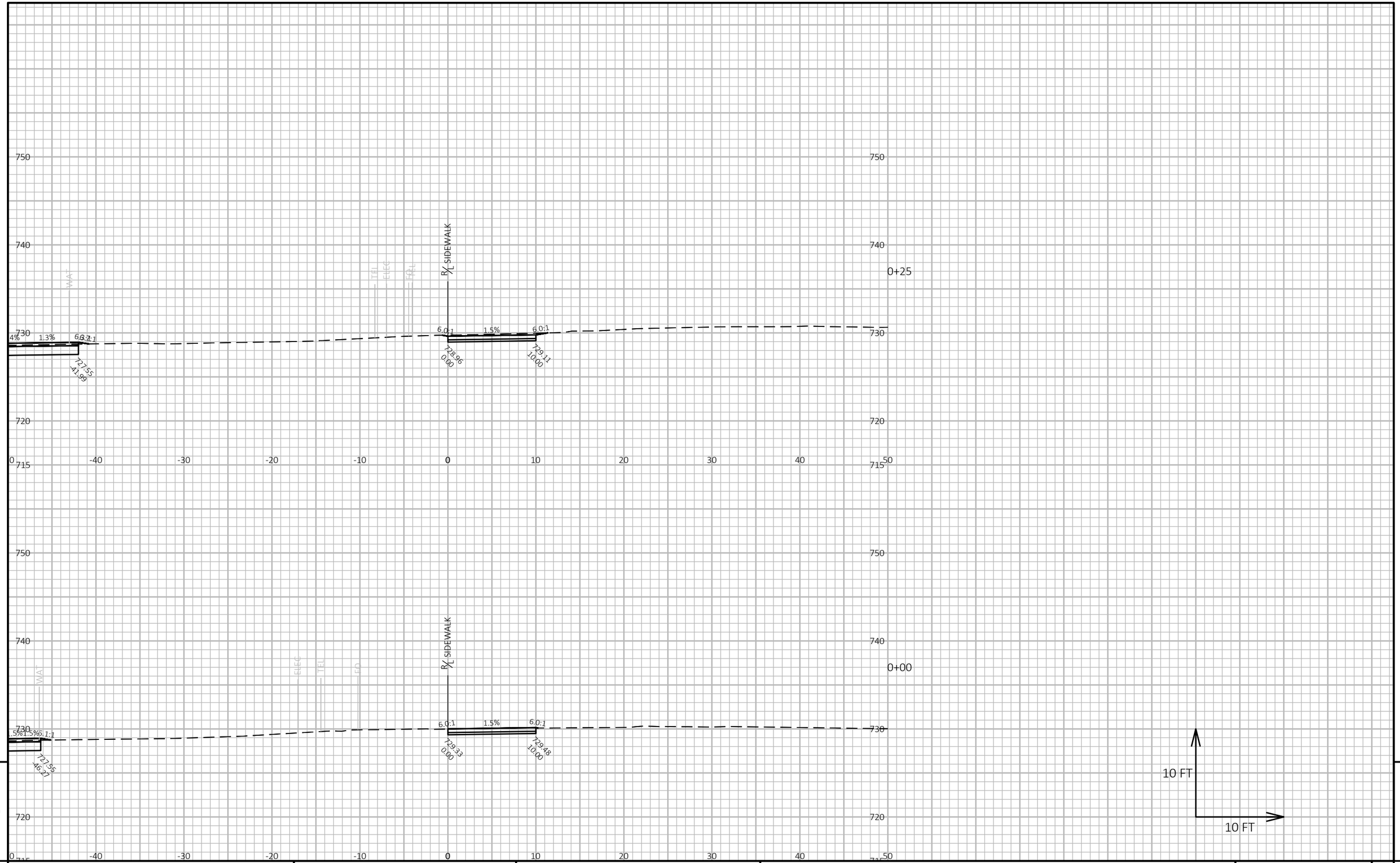
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: PERSONNEL PARKING	SHEET E

PRE_97

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 17

PLOT DATE : 1/19/2022 9:58 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

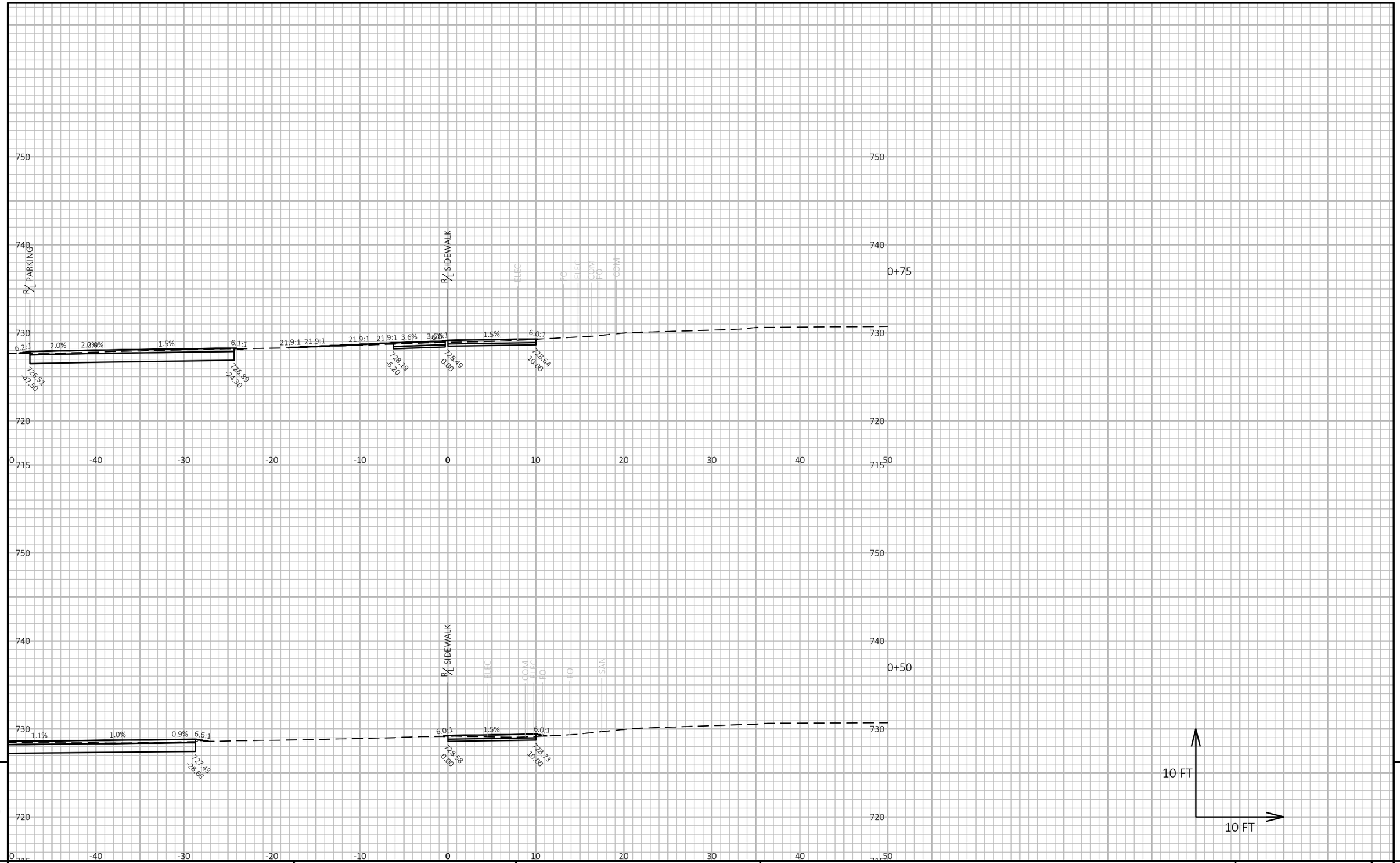
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: SIDEWALK TO PARKING AREA	SHEET E

PRE_98

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 18

PLOT DATE : 1/19/2022 9:58 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



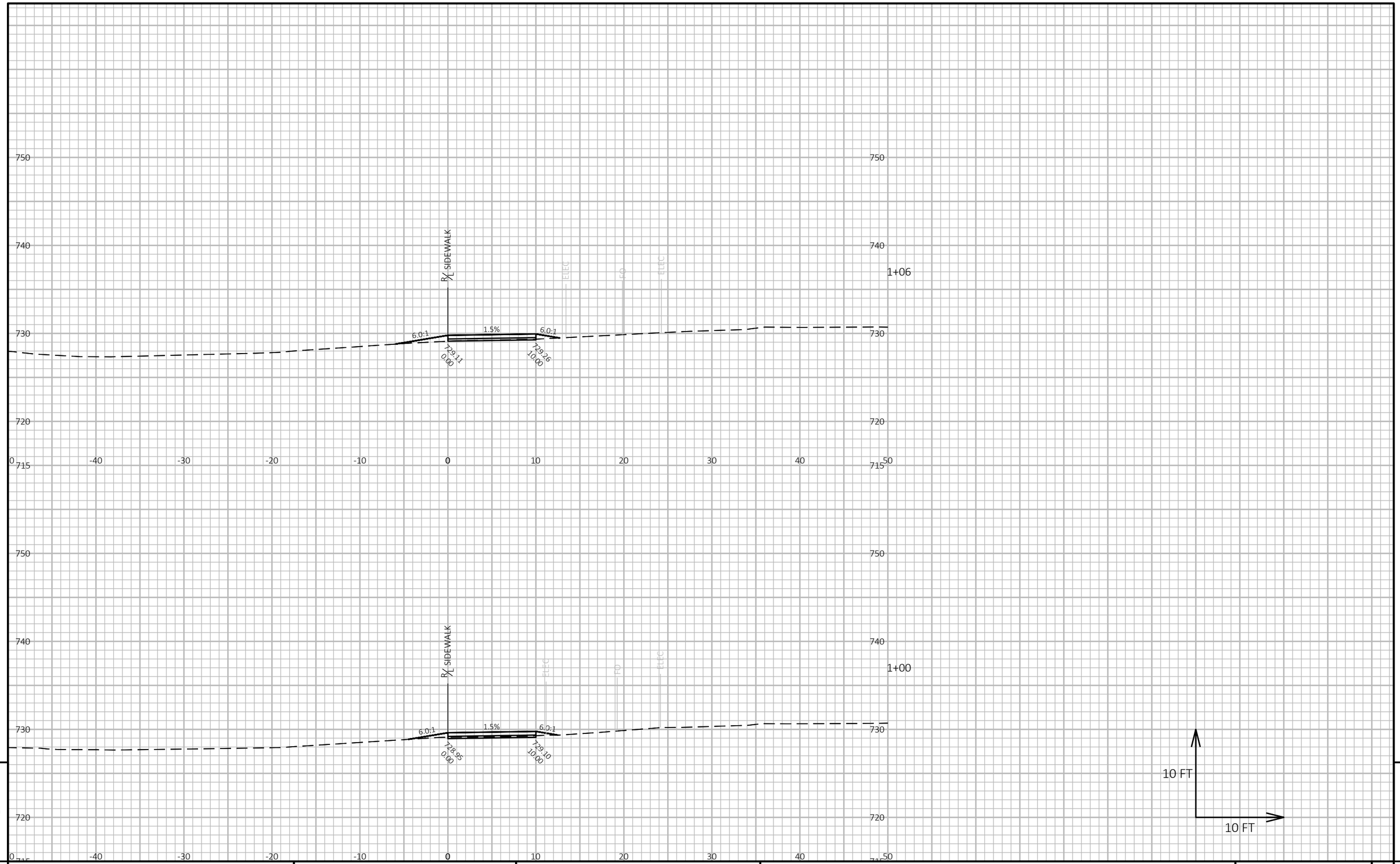
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: SIDEWALK TO PARKING AREA	SHEET E

PRE_99

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 19

PLOT DATE : 1/19/2022 9:58 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

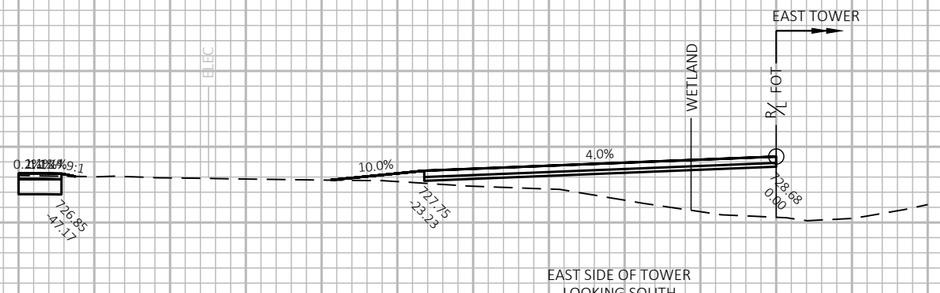
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: SIDEWALK TO PARKING AREA	SHEET E

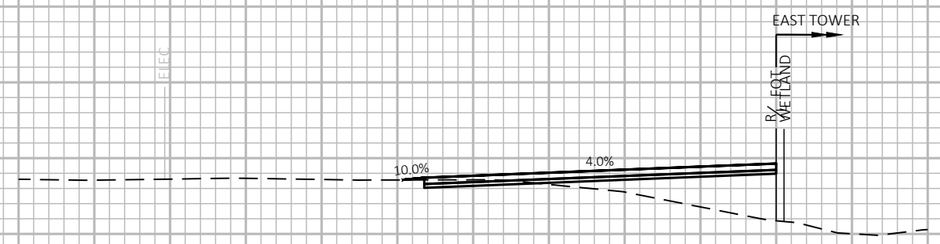
PRE_100

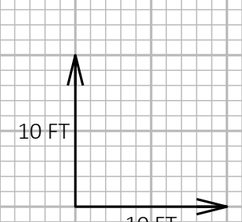
FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090202_XS.DWG
LAYOUT NAME - 20

PLOT DATE : 1/19/2022 9:59 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49







PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: EAST TOWER	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 24

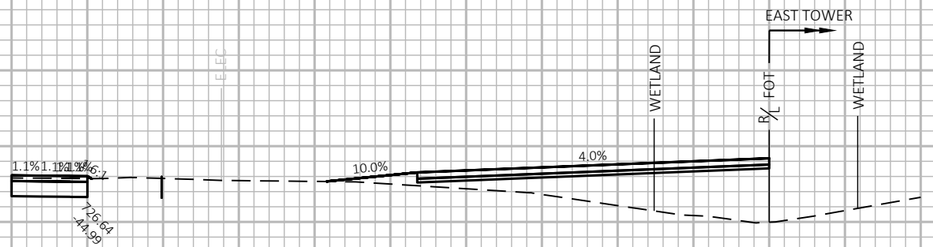
PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_101

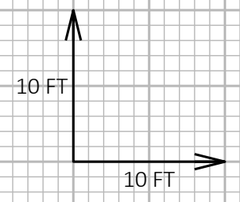
WISDOT/CADDS SHEET 49



SOUTHEAST CORNER
OF TOWER LOOKING
SOUTHWEST



EAST SIDE OF TOWER
LOOKING SOUTH



0+35

0+34

9

9

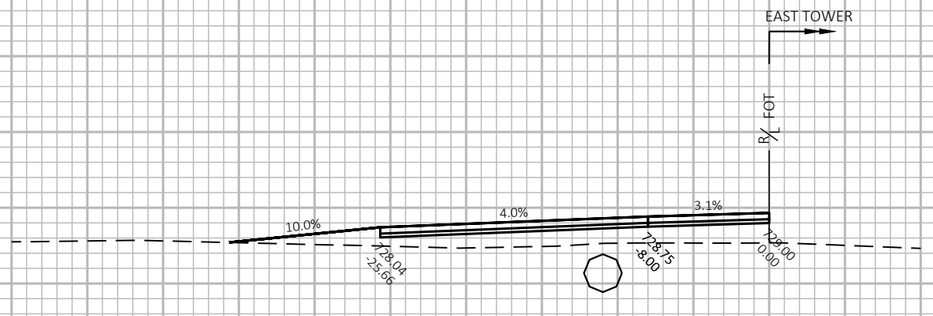
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: EAST TOWER	SHEET E

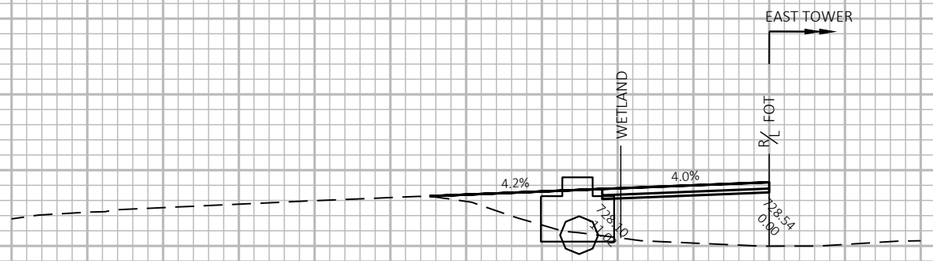
FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 25

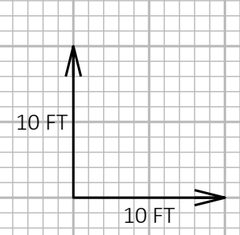
PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_102

WISDOT/CADDS SHEET 49







9

9

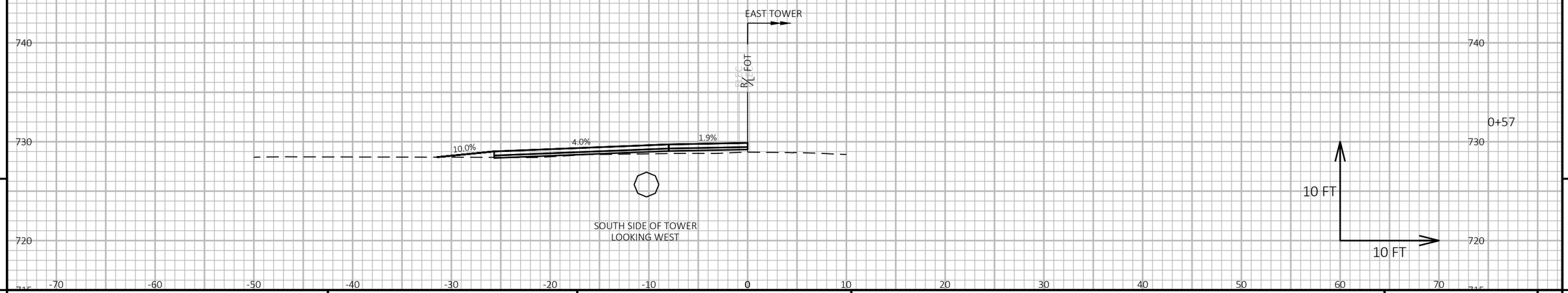
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: EAST TOWER	SHEET E

PRE_103

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 26

PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

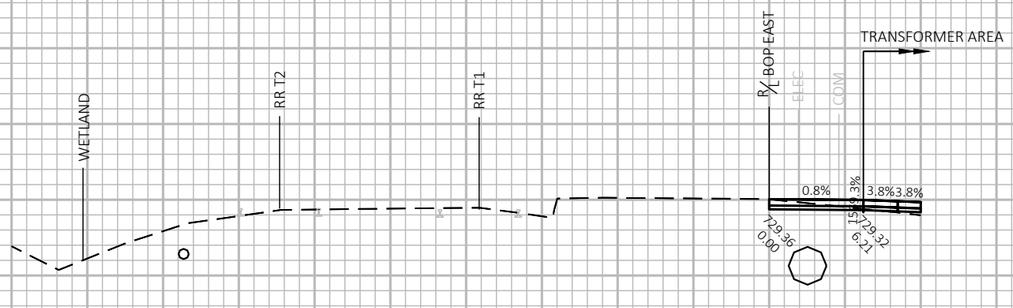
9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: EAST TOWER	SHEET E

PRE_104

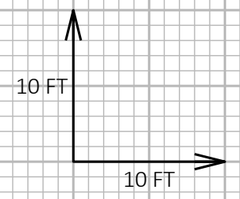
FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 27

PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.





WEST SIDE OF TOWER
LOOKING NORTH



4+00

3+79

9

9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND EAST PLATFORM	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 21

PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_105

WISDOT/CADDS SHEET 49





740 730 720 715 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

4+50

4+25

10 FT

10 FT

9

9

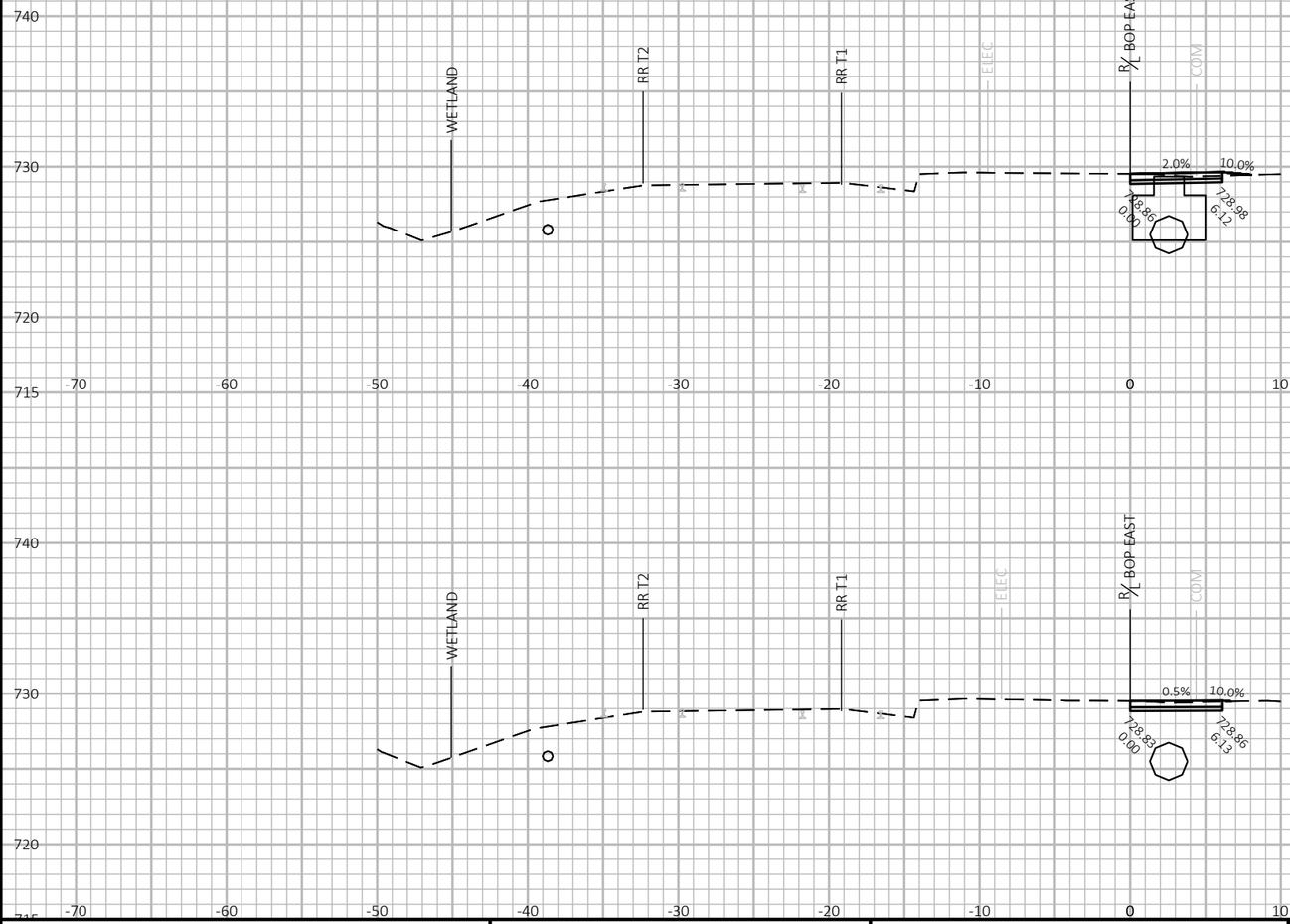
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND EAST PLATFORM	SHEET E

PRE_106

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 22

PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

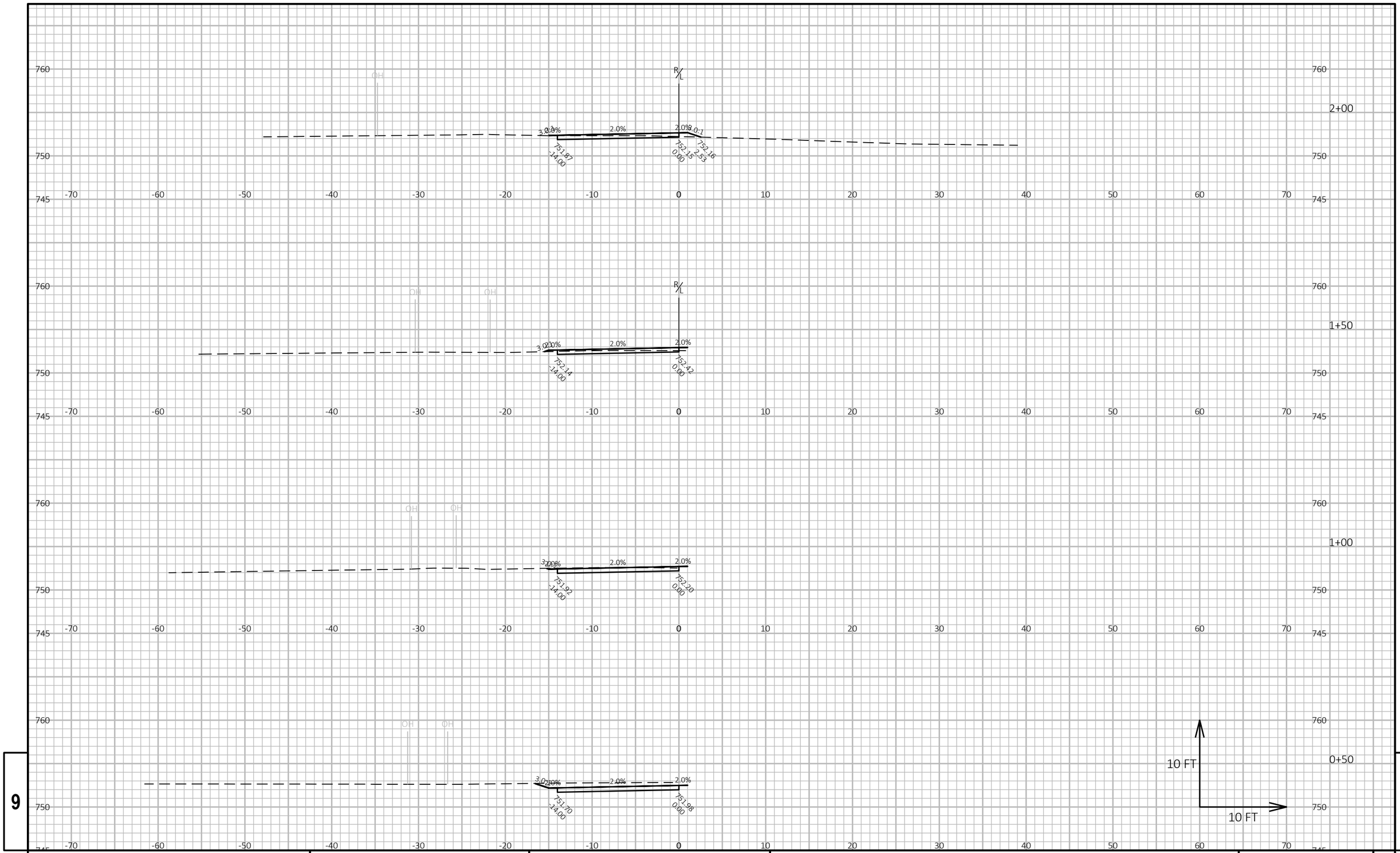
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: BEHIND EAST PLATFORM	SHEET E

PRE_107

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090203_XS.DWG
LAYOUT NAME - 23

PLOT DATE : 1/25/2022 3:01 PM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

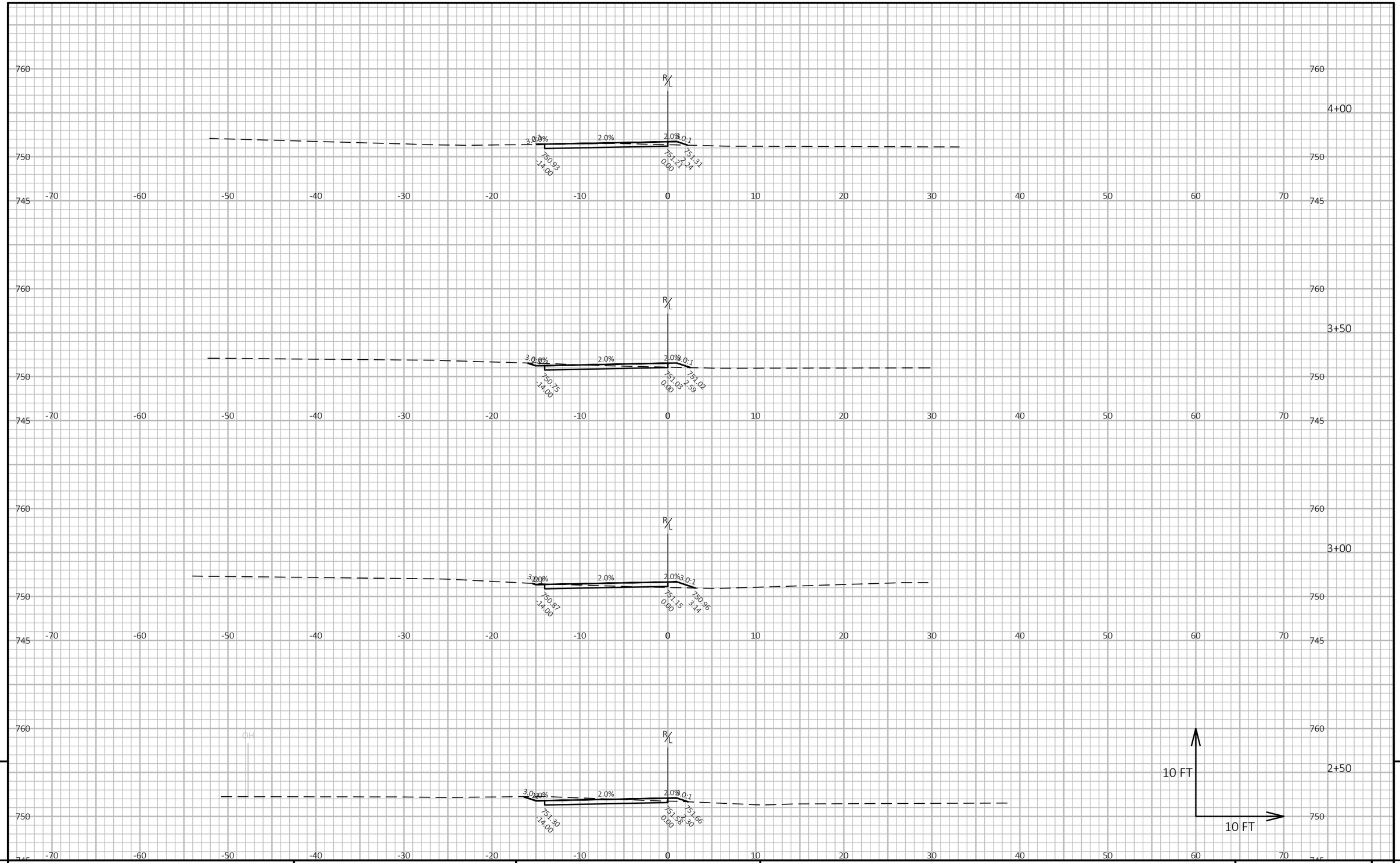
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET PRE_108 E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 07

PLOT DATE : 1/19/2022 10:01 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

PRE_109

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 08

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

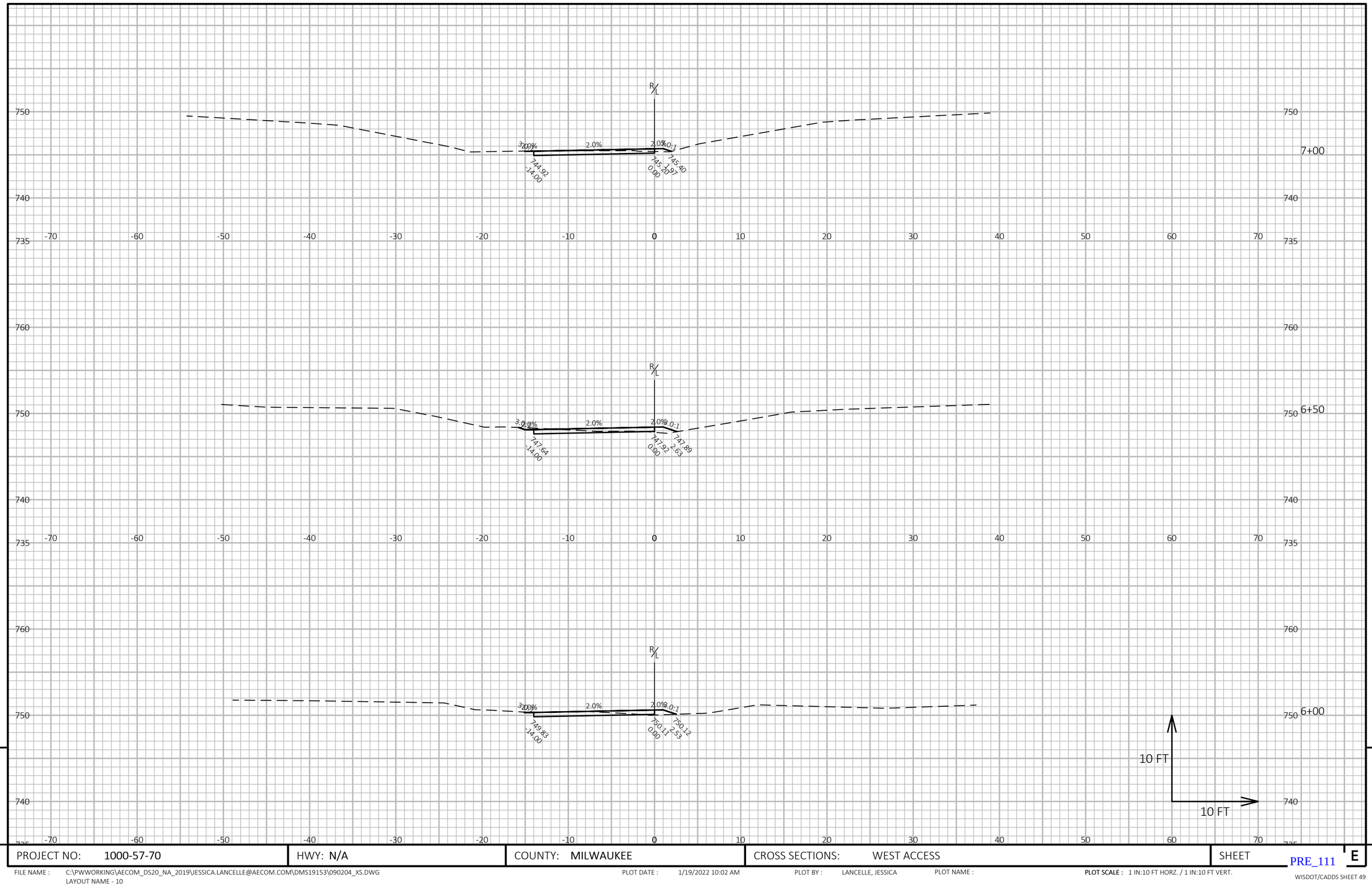
9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET PRE_110 E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 09

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

9

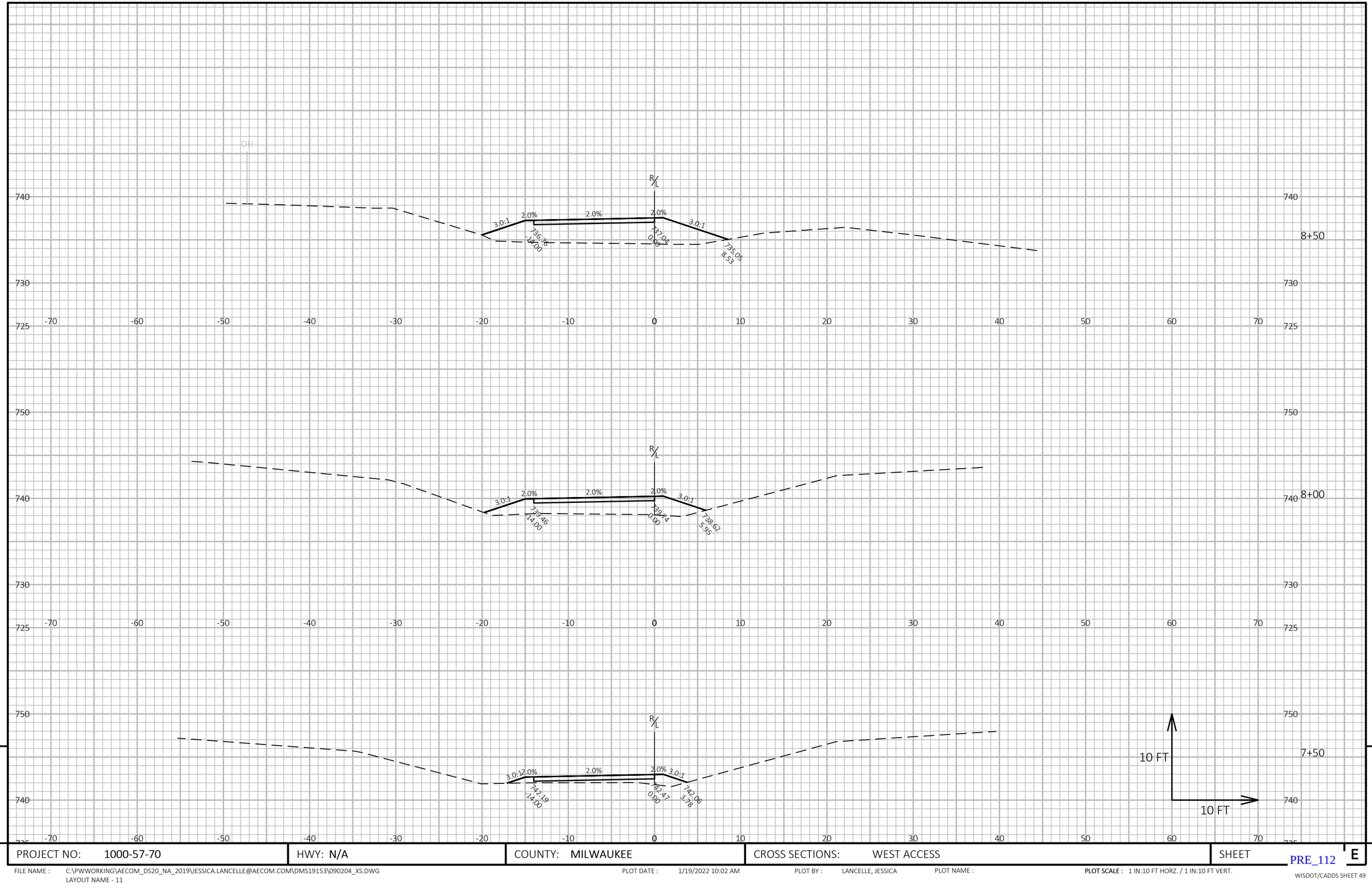
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

PRE_111

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 10

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



9

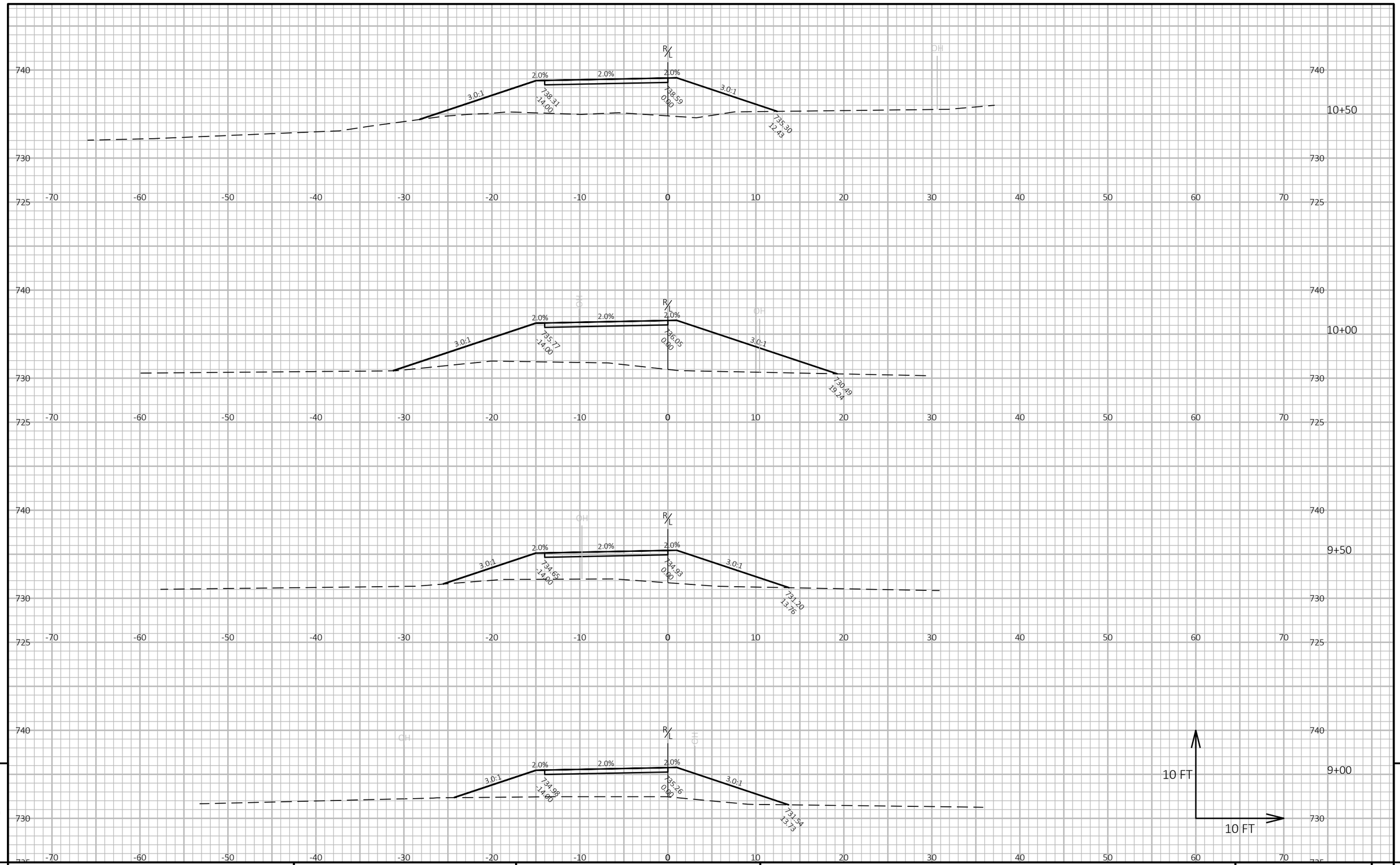
9

PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET PRE_112 E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 11

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



9

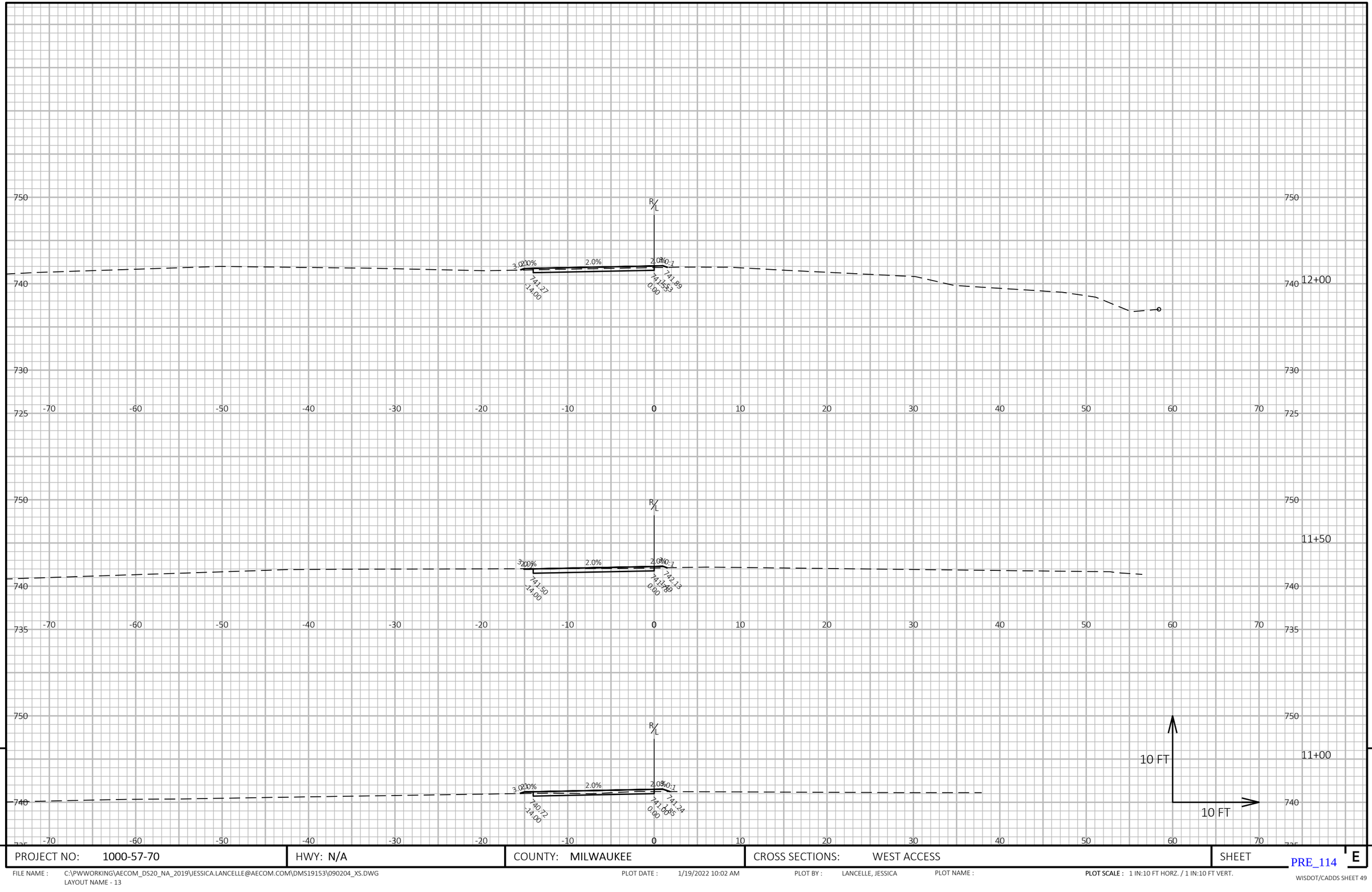
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PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

PRE_113

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 12

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



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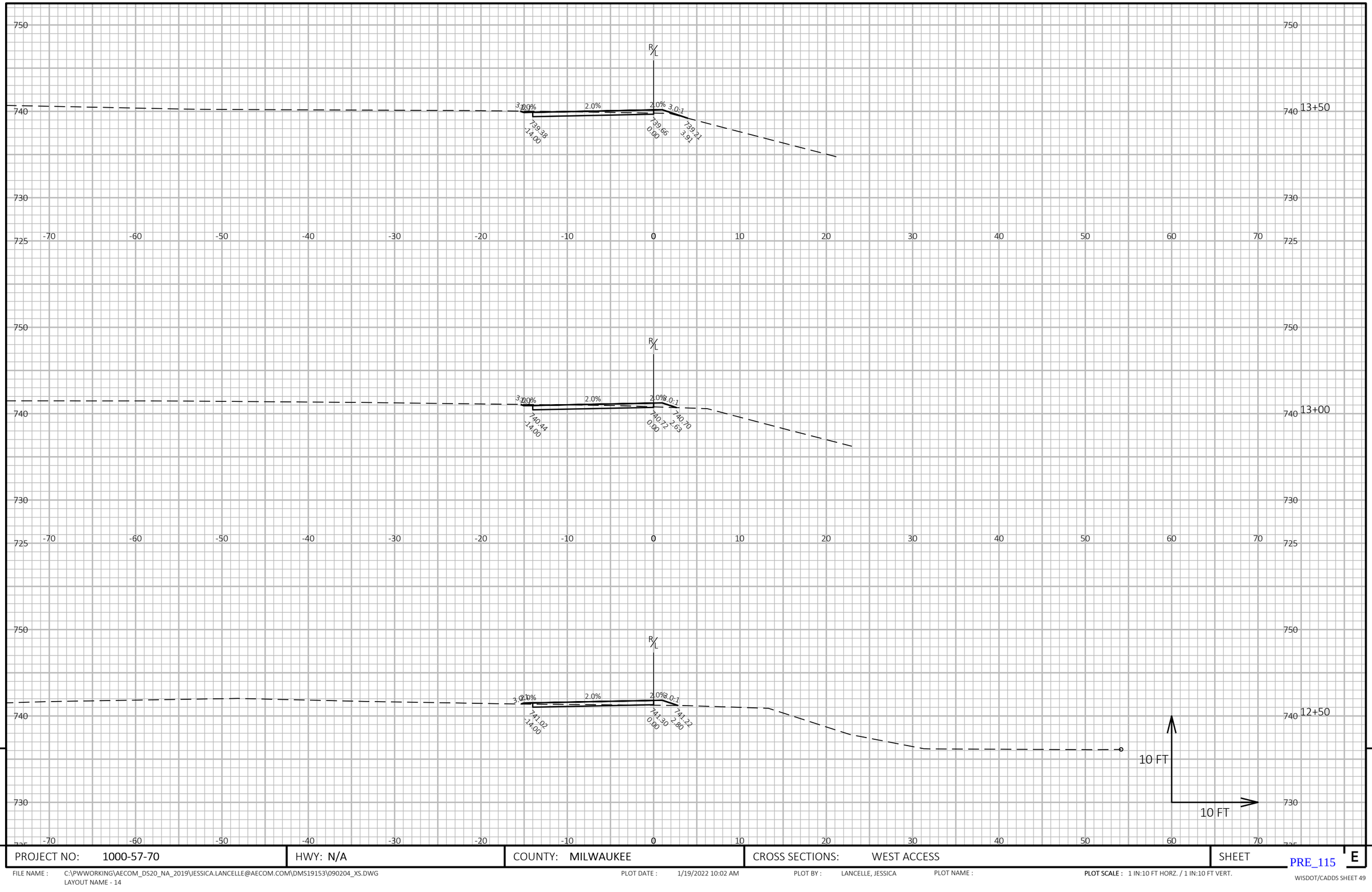
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PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET PRE_114 E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 13

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 14

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

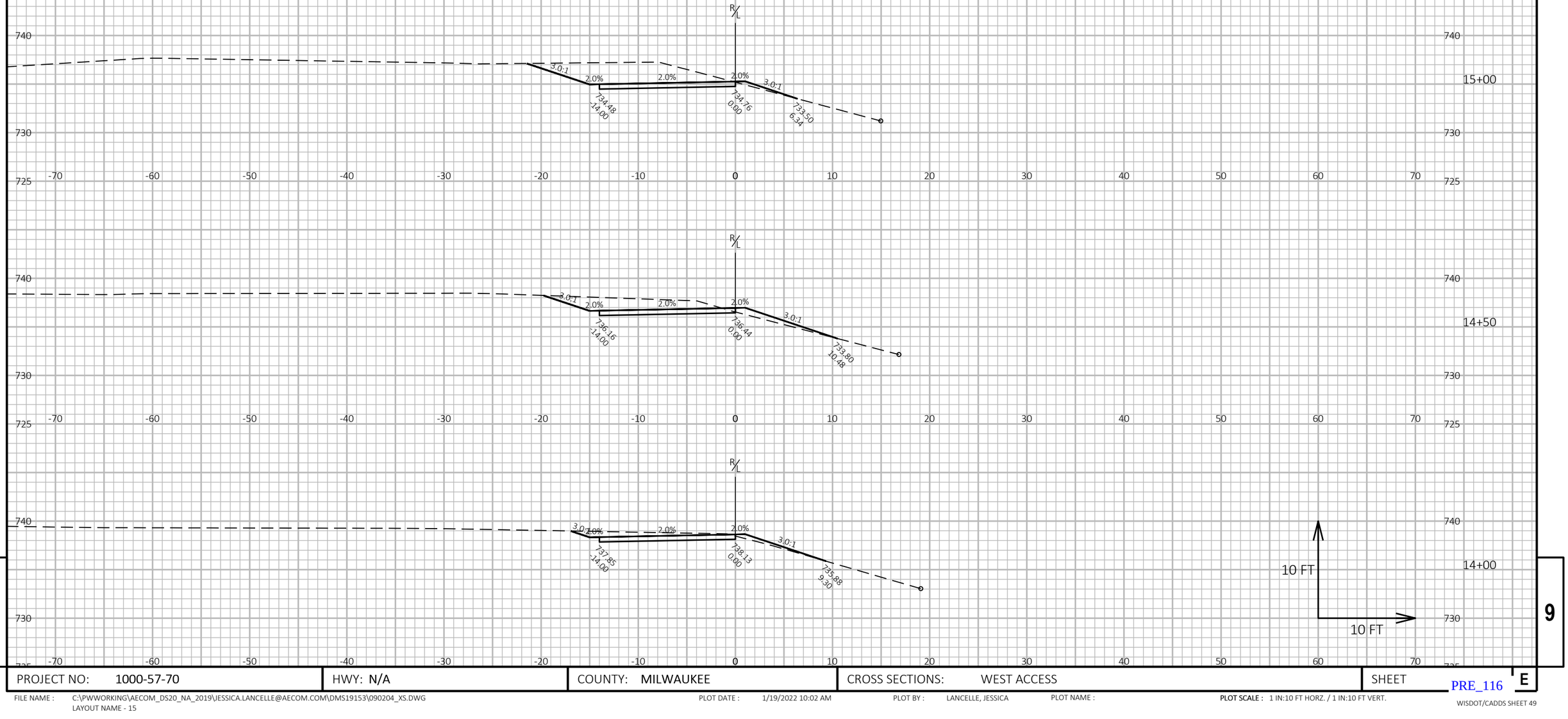
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PRE_115

WISDOT/CADDS SHEET 49

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PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

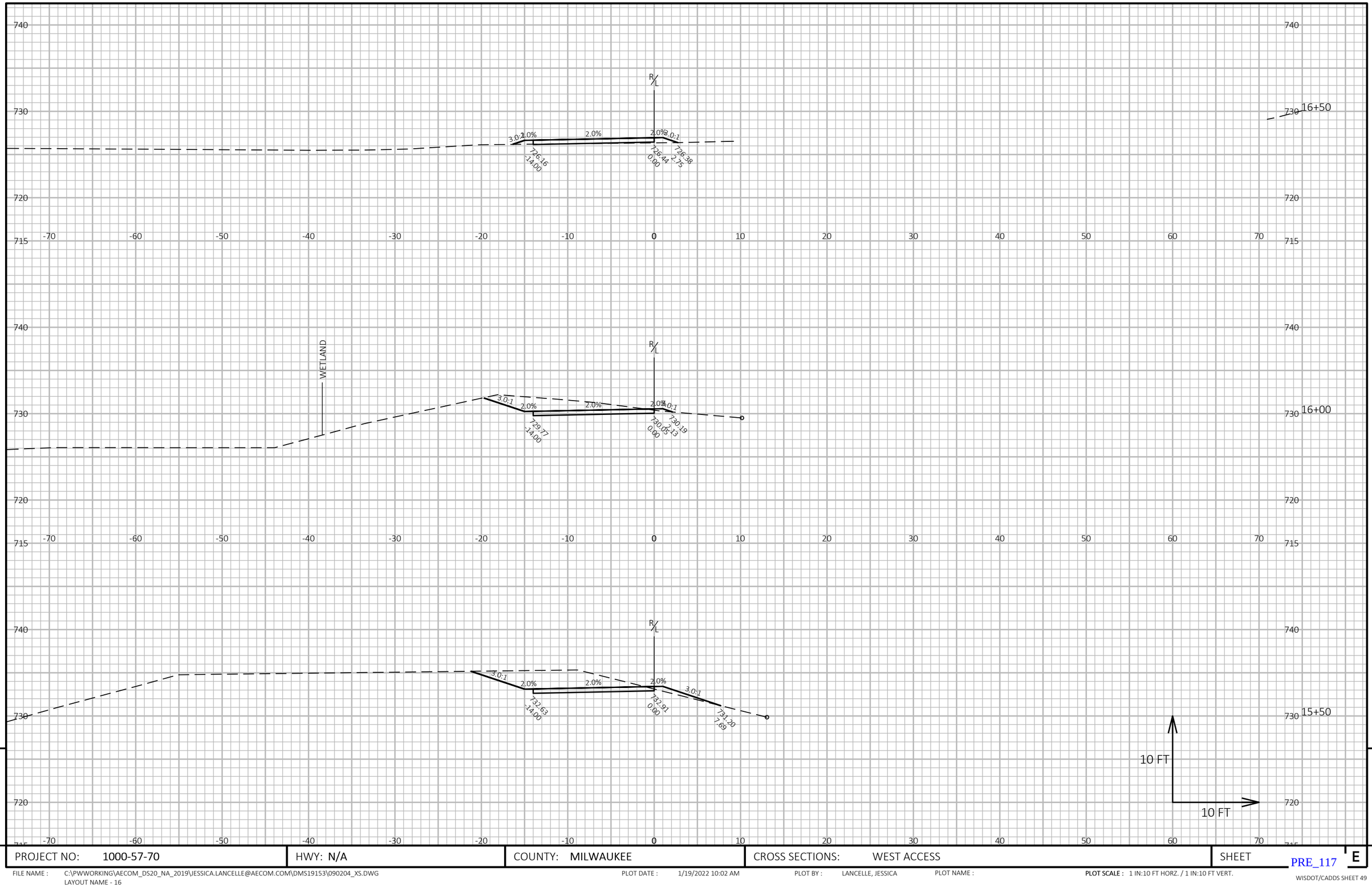
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FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 15

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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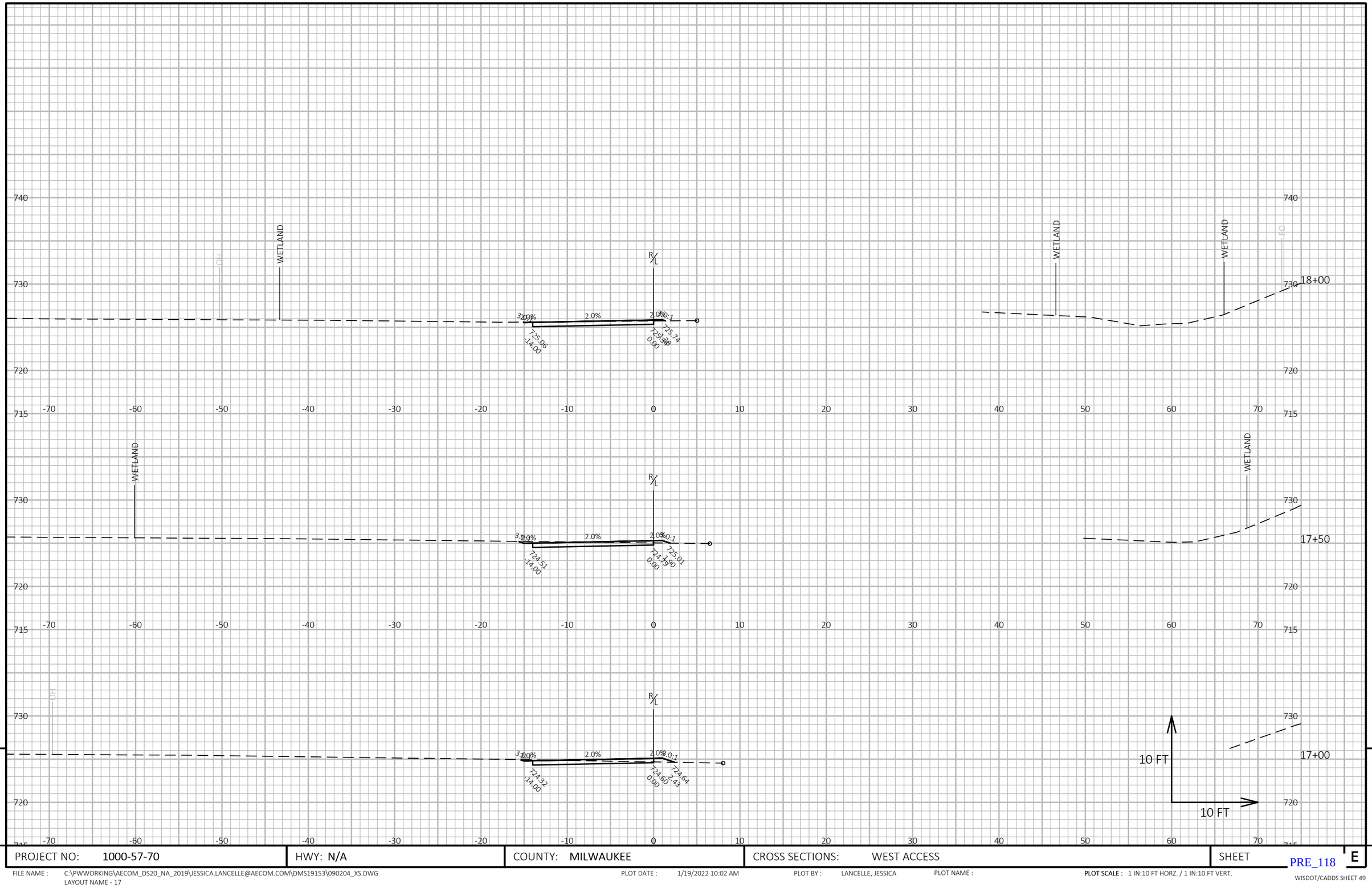
PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 16

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_117

WISDOT/CADDS SHEET 49



PROJECT NO: 1000-57-70	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 17

PLOT DATE : 1/19/2022 10:02 AM

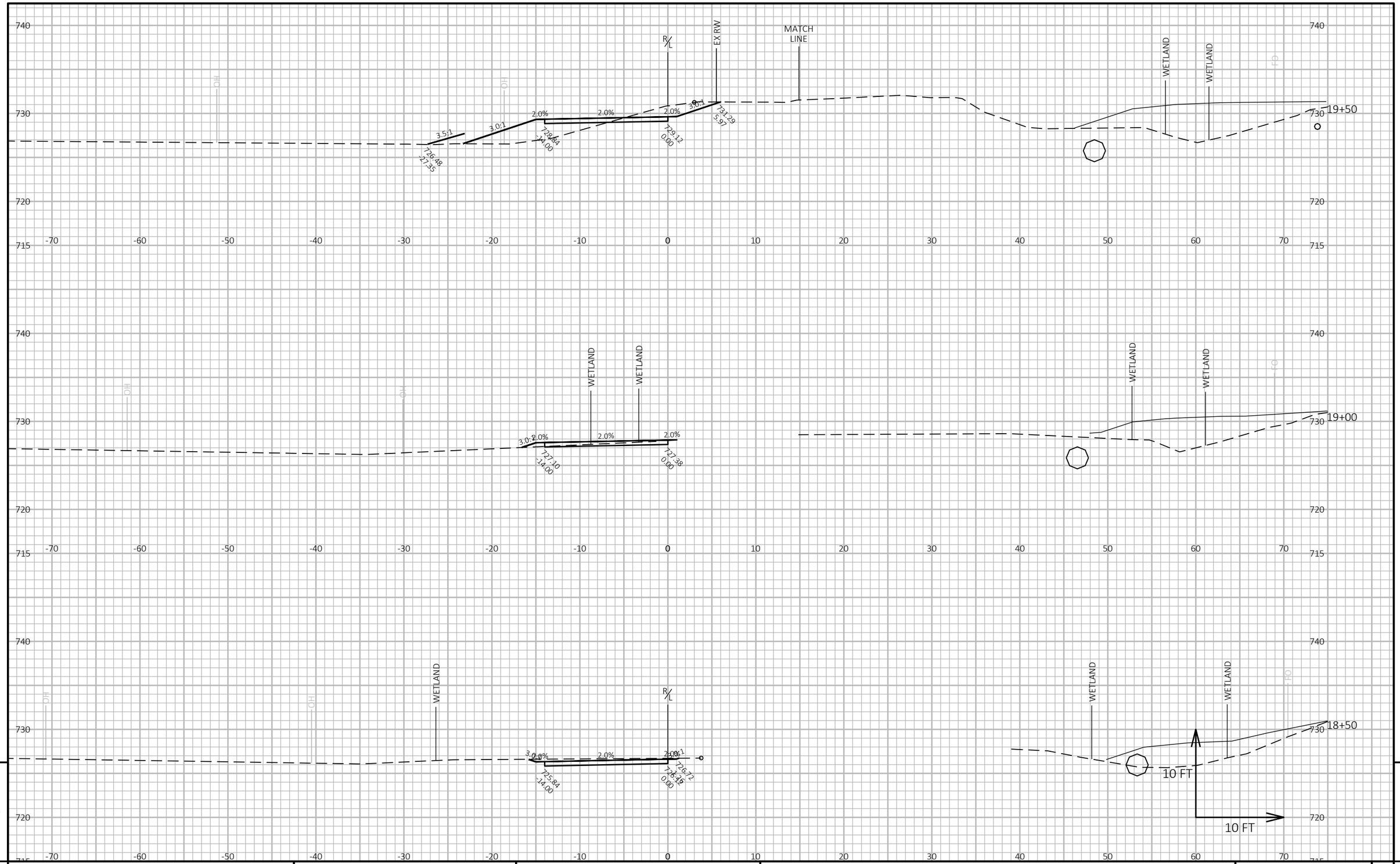
PLOT BY : LANCELLE, JESSICA

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

PRE_118

WISDOT/CADDS SHEET 49



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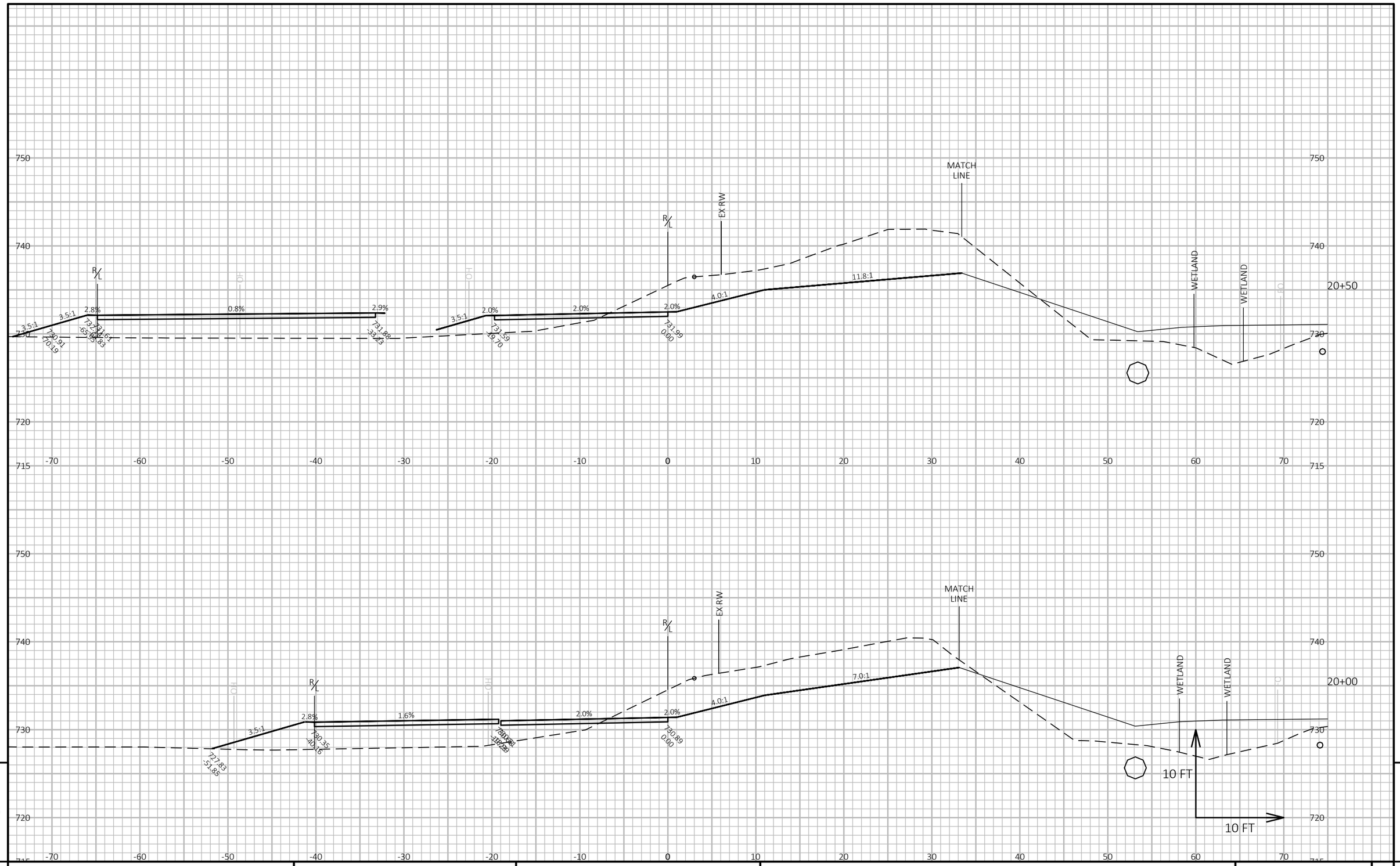
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PRE_119

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 18

PLOT DATE : 1/19/2022 10:02 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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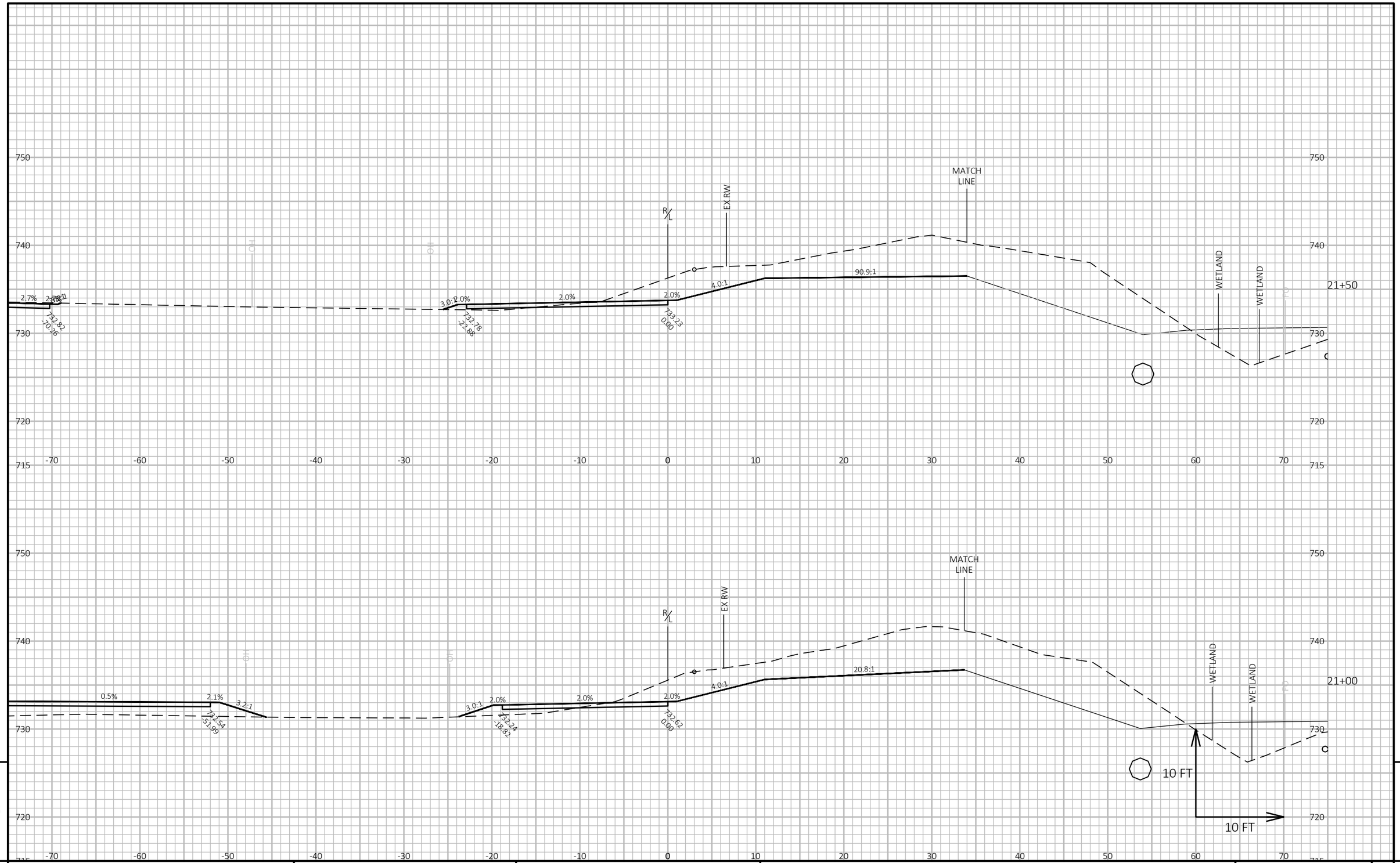
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PRE_120

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LAYOUT NAME - 19

PLOT DATE : 1/19/2022 10:03 AM PLOT BY : LANCELLE, JESSICA PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET PRE_121 E

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LAYOUT NAME - 19 (2)

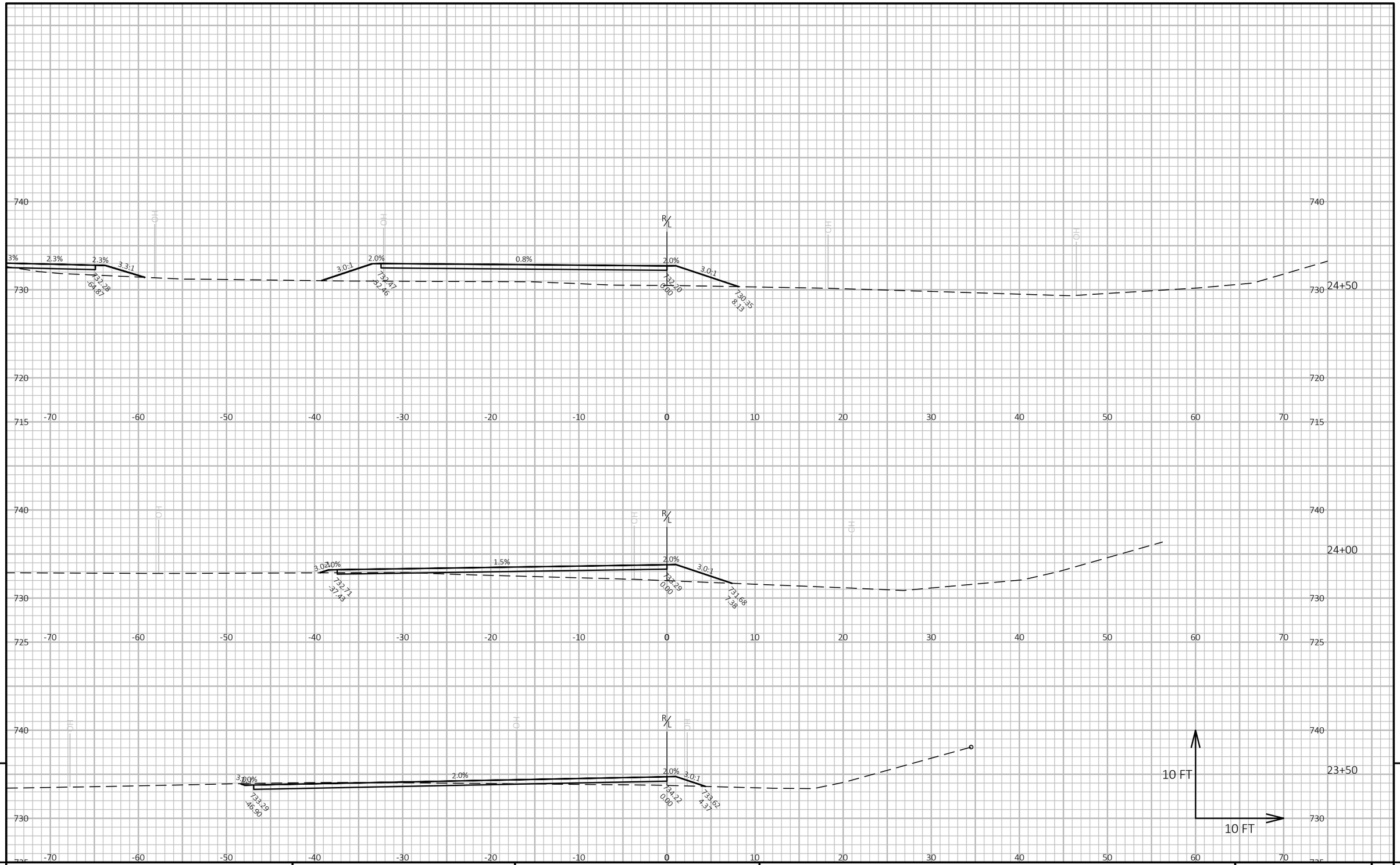
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PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

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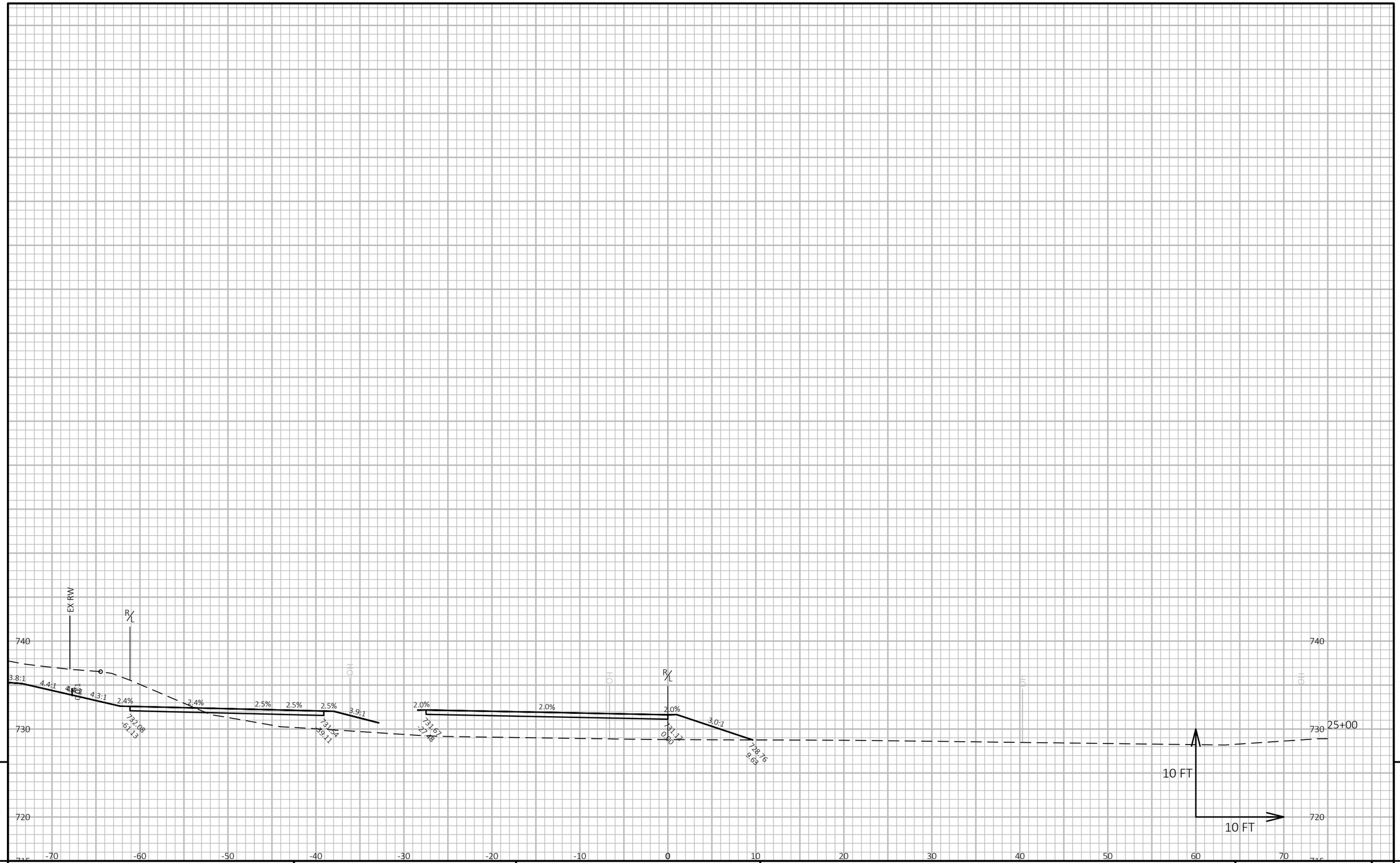
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FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 19 (4)

PLOT DATE : 1/19/2022 10:03 AM PLOT BY : LANCELLE, JESSICA PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



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PROJECT NO: 1000-57-05	HWY: N/A	COUNTY: MILWAUKEE	CROSS SECTIONS: WEST ACCESS	SHEET E

FILE NAME : C:\PWWORKING\AECOM_DS20_NA_2019\JESSICA.LANCELLE@AECOM.COM\DMS19153\090204_XS.DWG
LAYOUT NAME - 19 (5)

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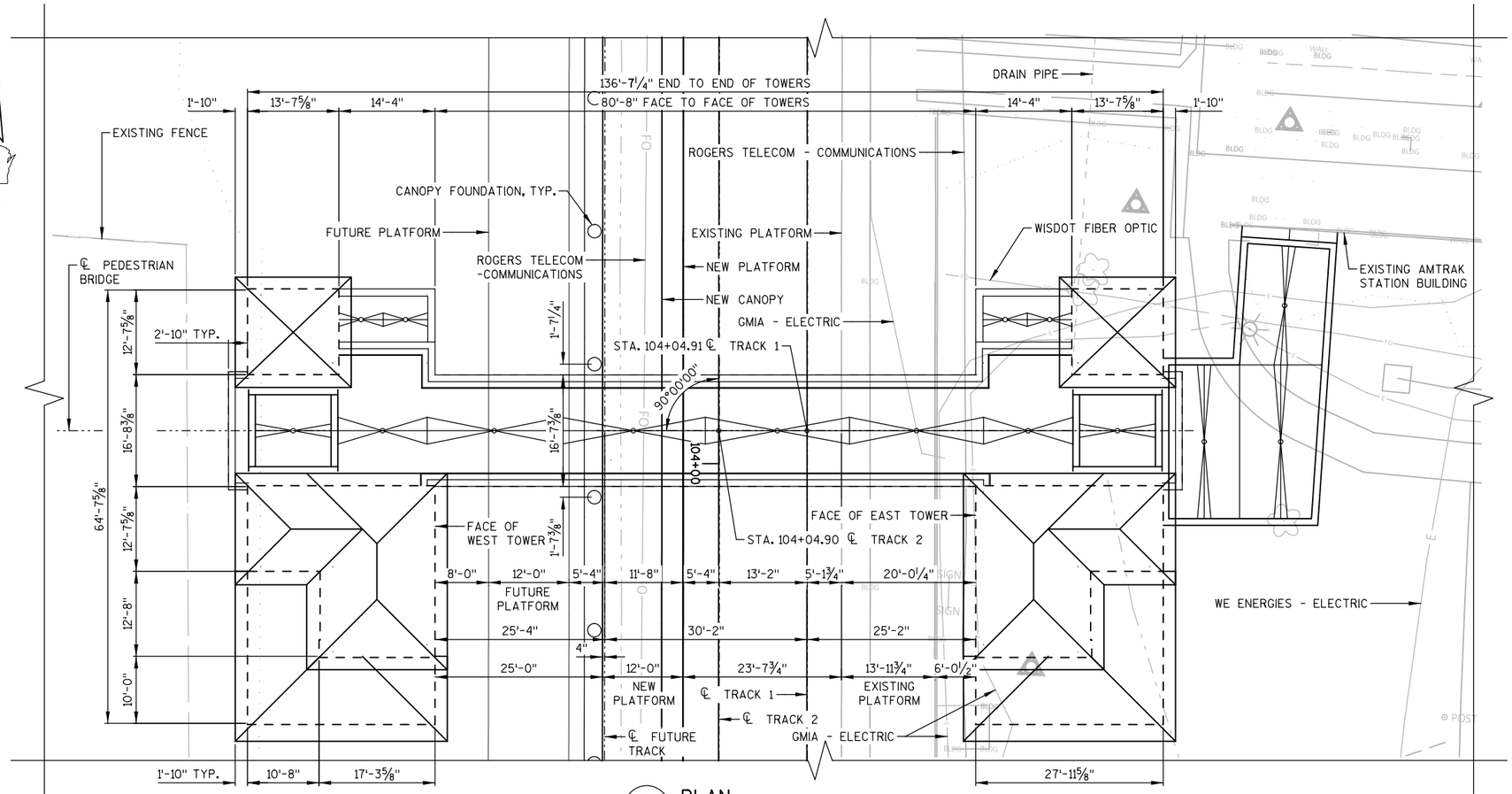
PRE_123

WISDOT/CADDS SHEET 49

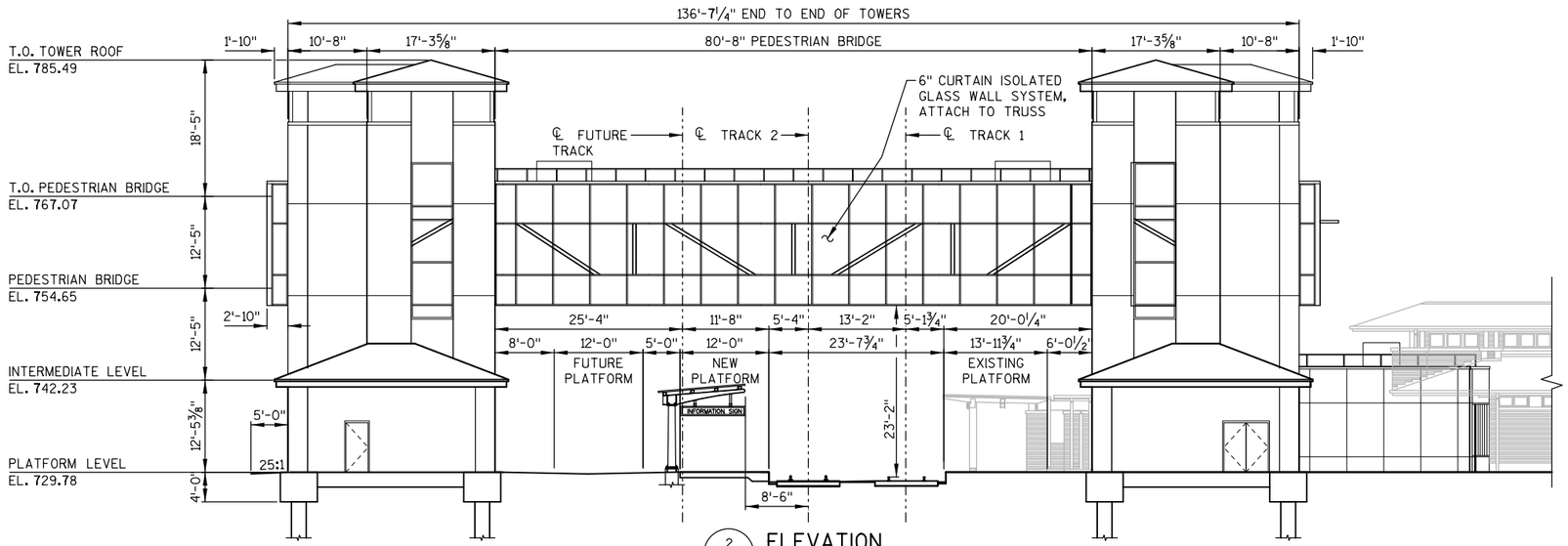
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PLOT DATE: 2/1/2022 PLOT TIME: 1:18:31 PM BATCH PRINT SHEET 1 OF 11

STATE PROJECT NUMBER

1000-57-05



1 S-001 PLAN



2 S-001 ELEVATION
NORMAL TO CP RAILWAY (LOOKING NORTH)

DESIGN DATA

LATERAL ANALYSIS DESIGN PARAMETERS:

1.	THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH ASCE7-10	
2.	RISK CATEGORY	II
3.	WIND LOAD	
a.	BASIC WIND SPEED, V (3-SEC GUST)	115 MPH
b.	ENCLOSURE CLASSIFICATION	ENCLOSED BLDG.
c.	EXPOSURE CATEGORY	C
d.	VELOCITY PRESSURE EXPOSURE COEFFICIENT, Kz	0.85 - 1.10
e.	TOPOGRAPHIC FACTOR, Kz†	1.0
f.	WIND DIRECTIONALITY FACTOR, Kd	0.85
g.	GUST EFFECT FACTOR, G	0.85
4.	SEISMIC LOAD	
	THE EQUIVALENT LATERAL FORCE ANALYSIS IS PERMITTED.	
a.	SITE CLASS	D
b.	RESPONSE MODIFICATION FACTOR, R	3.25
c.	DEFLECTION AMPLIFICATION FACTOR, Cd	3.25
d.	SYSTEM OVERSTRENGTH FACTOR, Omega	2.0
e.	DESIGN SPECTRAL ACCELERATION FOR SHORT PERIOD, Sds	0.092
f.	DESIGN SPECTRAL ACCELERATION FOR 1-SEC PERIOD, Sd1	0.074
g.	SEISMIC IMPORTANCE FACTOR, Ie	1.0
h.	SEISMIC DESIGN CATEGORY	A
i.	SEISMIC RESPONSE COEFFICIENT, Cs	0.028

SNOW LOAD DESIGN PARAMETERS:

GROUND SNOW LOAD, Pg	30 PSF
IMPORTANCE FACTOR, Is	1.0
EXPOSURE FACTOR, Ce	1.0
THERMAL FACTOR, Ct	1.0
SLOPE FACTOR, Cs	1.0
FLAT ROOF SNOW LOAD, Pf	21 PSF

LIVE LOADS:

PEDESTRIAN	100 PSF
PARTITION	15 PSF
ROOF	19.8 PSF

MATERIAL PROPERTIES:

CONCRETE MASONRY	
FLOOR SLABS	f'c = 4,000 PSI
ALL OTHER	f'c = 3,500 PSI
BAR STEEL REINFORCEMENT, HIGH STRENGTH, GRADE 60	fy = 60,000 PSI
STRUCTURAL STEEL	
W SHAPES: ASTM A992, GR 50	fy = 50,000 PSI
L SHAPES AND PLATES: ASTM A709, GR 50	fy = 50,000 PSI
HSS: ASTM A1085	fy = 50,000 PSI
STAY-IN-PLACE FORM PAN ASTM A653	fy = 50,000 PSI
WELDED WIRE REINFORCEMENT ASTM 1064	fy = 65,000 PSI

STRUCTURES DESIGN CONTACTS

CONSULTANT:
MICHAEL ARNOLD (414) 559-9885

NO.	DATE	REVISION	BY

AECOM
1555 North Rivercenter Drive, Suite 214
Milwaukee, WI 53212
(414) 944-6080

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURAL

OVER CP RAILWAY AT MKE AIRPORT RAIL STA.

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
MILWAUKEE	MILWAUKEE

DESIGN SPEC. AASHTO LRFD DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D	DRAWN BY	PLANS CK'D
		CEB	

GENERAL PLAN AND ELEVATION

SHEET S-001
PRE_124

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PLOT DATE: 2/1/2022 PLOT TIME: 1:18:38 PM
BATCH PRINT SHEET 2 OF 11

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK
SIGNIFIES THE BAR SIZE.

ALL STATIONS ARE IN SURVEY FEET.

COORDINATES SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS),
MILWAUKEE COUNTY, NAD 83 (2011), IN U.S. SURVEY FEET.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988
(NAVD 88).

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF
UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR CONSIDERED ALL-INCLUSIVE.
THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO TYPE AND
LOCATION OF UNDERGROUND UTILITIES.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL OTHER DRAWINGS.

REINFORCED CONCRETE

REINFORCING BARS SHALL CONFORM TO ASTM A615 WITH 60,000 PSI YIELD STRENGTH, AS INDICATED AND SHALL HAVE THE FOLLOWING CONCRETE COVER, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

A. SURFACES PLACED IN CONTRACT WITH THE GROUND 3"

B. FORMED SURFACE EXPOSED TO GROUND 2"

C. INSIDE FACE OF FORMED WALL 1 1/2"

D. PIER TIES 1 1/2"

E. SLAB REINFORCING 3/4"

F. TOP REINFORCING STEEL IN FLAT SLABS 1"

G. BEAM STIRRUPS 1 1/2"

H. SLAB TOP REINFORCING AT LOADING DOCK AND PARKING AREAS 2"

WELDED WIRE FABRIC WILL CONFORM TO ASTM A185; LAP TWO SQUARES AT ALL SPLICES AND TIE AT 3-FOOT CENTERS.

NO CONCRETE SHALL BE CAST BEFORE REVIEW AND APPROVAL OF THE REINFORCING AND EMBEDDED ITEMS HAS BEEN OBTAINED FROM THE ARCHITECT.

CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING INTENDED PLACING SEQUENCES AND LOCATIONS OF CONSTRUCTION JOINTS AND GRADE BEAM JOINTS TO THE ENGINEER FOR APPROVAL.

CAST SLABS AND BEAMS MONOLITHICALLY, UNLESS OTHERWISE INDICATED.

ALL KEYS SHALL BE 2"x4" (NOMINAL) UNLESS SHOWN OTHERWISE ON DRAWINGS.

NOT ALL OPENINGS THROUGH CONCRETE SLABS AND WALLS ARE SHOWN ON STRUCTURAL DRAWINGS. OPENINGS INDICATE, OR ANY ADDITIONAL OPENINGS OR INSERTS REQUIRED, MUST BE VERIFIED WITH RESPECTIVE TRADES BEFORE POURING OF CONCRETE. PROVIDE ALL OPENINGS THROUGH FOUNDATION WALLS AS REQUIRED BY MECHANICAL TRADES. ALL REQUIRED INSERTS, SLEEVES, CONDUITS, EMBEDMENTS, AND PENETRATIONS MUST BE VERIFIED WITH RESPECTIVE TRADES BEFORE CASTING CONCRETE.

PIPES OR CONDUITS SHALL NOT BE PLACED IN SLABS.

SET ANCHOR BOLTS AND EMBEDDED PLATES REQUIRED FOR CONNECTION OF WORK BY OTHERS.

PROVIDE CONCRETE PADS FOR MECHANICAL EQUIPMENT ACCORDING TO THE REQUIREMENTS OF THE MANUFACTURER AND IN ACCORDANCE WITH THE TYPICAL DETAILS. ALWAYS PROVIDE MINIMUM REINFORCEMENT FOR PADS, UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH MECHANICAL DRAWINGS.

ALUMINUM PIPES, CONDUITS, ETC. SHALL NOT BE EMBEDDED IN CAST IN PLACE CONCRETE.

EMBED PLATES AND ANCHOR BOLTS SHALL BE SET WITHIN 1/8" TOLERANCE IN ANY DIRECTION. THE CONTRACTOR SHALL USE TEMPLATES TO PLACE ANCHOR BOLTS AND PROVIDE THE MINIMUM PROJECTION SHOWN ON THE DRAWINGS.

THE CONTRACTOR SHALL INCLUDE IN THE ESTIMATES AN ALLOWANCE FOR DEFLECTION AND OTHER FACTORS THAT MAY CONTRIBUTE TO CONCRETE QUANTITY.

PROVIDE POCKETS OR RECESSES IN CONCRETE WORK FOR STEEL COLUMNS AND BEAMS AS REQUIRED AND / OR CALLED FOR BY THE SPECIFICATIONS EVEN IF IT IS NOT SHOWN ON THE DRAWINGS. PROVIDE CONCRETE FILL AFTER STEEL ERECTION TO COMPLETE SEAL OF EXPOSED OPENINGS OR RECESSES.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE 2010 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-10).

ALL DIMENSIONS MUST BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO THE FABRICATION OF STEEL.

ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1, STRUCTURAL WELDING CODE.

ALL WELDING ELECTRODES SHALL BE E70XX, EXCEPT FOR WELDING TO EXISTING STEEL MEMBER.

EACH WELDER, TACKER, AND WELDING OPERATOR MUST BE CERTIFIED BY TEST WITHIN THE PAST SIX MONTHS TO PERFORM THE TYPE OF WORK REQUIRED IN CONFORMANCE WITH THE AWS D1.1 STRUCTURAL WELDING CODE.

FIELD WELDING OF STRUCTURAL MEMBERS THAT IS NOT INDICATED ON THE STRUCTURAL DRAWINGS, IS NOT PERMITTED.

ALL BRIDGE TRUSS FIELD CONNECTIONS SHALL BE BOLTED WITH ASTM A3125 GRADE A325 HIGH-STRENGTH BOLTS. BRIDGE TRUSS CONNECTIONS SHALL BE DESIGNED AS SLIP-CRITICAL.

SHOP CONNECTIONS MAY BE BOLTED WITH A325 HIGH STRENGTH BOLTS OR WELDED IN ACCORDANCE WITH AWS D1.1 - STRUCTURAL WELDING CODE, UNLESS THE CONNECTION METHOD IS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS.

STEEL CONNECTIONS IN THE TOWERS MAY BE MADE WITH ASTM A3125 GRADE A325 OR GRADE F1852 TENSION CONTROL BOLTS, OR FIELD WELDED. TOWER STEEL CONNECTIONS SHALL BE DESIGNED AS BEARING CONNECTIONS.

THE CONTRACTOR SHALL SUPPLY ALL PLATES, CLIPS, SEAT ANGLES, ANGLE BRACKETS, CONNECTIONS, ETCETERA, AS REQUIRED FOR COMPLETION OF THE STRUCTURE, EVEN IF SUCH ITEMS ARE NOT EXPLICITLY CALLED FOR ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

THE CONTRACTOR SHALL PROVIDE ALL EMBEDDED PLATES, SLEEVES, BOX OUTS, CONDUITS, ETCETERA, AS REQUIRED BY OTHER TRADES IN THE CONCRETE STRUCTURE.

FURNISH AND INSTALL ONE HARDENED WASHER AND HEAVY HEX NUT WITH ALL STRUCTURAL CONNECTION BOLTS AND ANCHOR BOLTS, UNLESS OTHERWISE INDICATED ON THE DRAWING.

PROVIDE ANCHOR BOLTS, SETTING PLATES AND EMBEDDED PLATES TO BE SET BY OTHERS.

PROVIDE 1/4-INCH THICK LEVELING PLATES FOR USE IN ALIGNING AND SETTING ANCHOR BOLTS AND BASE PLATES.

TOP-OF-STEEL ELEVATIONS INDICATED ON THE DRAWINGS REFER TO TOP OF TOP-BEAM-FLANGE.

CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD FRAME FOR WIND AND CONSTRUCTION LOADS.

MAKE SHOP AND FIELD CONNECTIONS, UNLESS WELDED, WITH 7/8-INCH MINIMUM DIAMETER ASTM A325 HIGH STRENGTH BOLTS; AND UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE STRUCTURAL DRAWINGS, WITH HOLES 1/16-INCH LARGER. INSTALL ONE HARDENED WASHER UNDER THE ELEMENT TURNED IN TIGHTENING.

UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS, ALL SIMPLY SUPPORTED BEAM-TO-COLUMN AND BEAM-TO-BEAM CONNECTIONS SHALL BE DOUBLE ANGLE IN CONFORMANCE WITH THE AISC MANUAL.

CONTRACTOR HAS THE OPTION TO USE TENSION SETS (TS) BOLTS, PROVIDED TS BOLTS ARE NOT FULLY TORQUED FOR SIMPLE BEAM CONNECTIONS, THUS ALLOWING FOR ROTATION OF BEAMS WHEN LOADED.

DESIGN AND DETAIL ALL CONNECTIONS ACCORDING TO AISC. ALL NON-COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR THE MAXIMUM UNIFORM LOAD-CARRYING CAPACITY OF THE MEMBER. COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED FOR 1.8 TIMES THE UNIFORM LOAD-CARRYING CAPACITY OF THE MEMBER. COMPOSITE GIRDERS SHALL BE DESIGNED FOR 1.2 TIMES THE UNIFORM LOAD-CARRYING CAPACITY OF THE MEMBER. FOR DETERMINING COMPOSITE FACTORS, A BEAM SHALL BE DEFINED AS ANY MEMBER THAT DOES NOT SUPPORT ANOTHER BEAM. ALL OTHER MEMBERS SHALL BE CONSIDERED GIRDERS. EXCEPT THOSE THAT SUPPORT FRAMING FOR FLOOR OPENINGS, WHICH SHALL BE CONSIDERED BEAMS.

ALL EXPOSED, EXTERIOR STEEL SHALL BE GALVANIZED, PRIMED AND PAINTED (WHITE). INTERIOR STEEL THAT IS CONCEALED BY WALLS SHALL BE SHOP-COATED WITH PRIMER. INTERIOR STEEL THAT IS EXPOSED SHALL BE SHOP-COATED WITH PRIMER AND PAINTED WHITE.

BRACING MEMBERS SHALL BE DETAILED TO AVOID ECCENTRIC CONNECTIONS AND DETAILED FOR DRAWING TOGETHER.

ALL BOLTS CONNECTING BRACE FRAME AND MOMENT FRAME MEMBERS SHALL BE SLIP-CRITICAL BOLTS.

ALL COLUMN END SPLICES SHALL BE MILLED IN ACCORDANCE WITH THE TYPICAL DETAILS. BRACED FRAME COLUMN SPLICES SHALL BE DESIGNED IN ACCORDANCE WITH THE TYPICAL DETAILS. MOMENT FRAME COLUMN SPLICES SHALL BE DESIGNED IN ACCORDANCE WITH THE TYPICAL DETAILS.

MOMENT CONNECTIONS BETWEEN BEAMS AND COLUMNS THAT ARE INDICATED BY MOMENT SYMBOLS ON THE DRAWINGS SHALL BE DESIGNED AND DETAILED FOR THE ELASTIC MOMENT CAPACITY OF THE CONNECTING MEMBERS; EXCEPT WHERE THE VALUES OF THE MOMENTS ARE GIVEN ON THE DRAWINGS. IN THE LATTER CASE, THE CONNECTIONS SHALL BE DESIGNED FOR THE VALUES SHOWN ON THE DRAWINGS.

WELDED SHEAR CONNECTORS SHALL HAVE THE FOLLOWING SIZE: 3/4" DIAMETER. THE LENGTH OF SHEAR CONNECTORS SHALL BE 3" LONG AT 4" SLAB, 5" AT 6 1/4" SLAB.

THE CONNECTORS SHALL BE EQUALLY SPACED BETWEEN SUPPORTS, UNLESS NOTED OTHERWISE. A MINIMUM OF ONE SHEAR CONNECTOR PER FOOT OF BEAM LENGTH SHALL BE PROVIDED FOR ALL BEAMS AND GIRDERS WITH CONCRETE ON STEEL DECK. WHERE SHEAR CONNECTORS ARE NOT SHOWN, PROVIDE A MINIMUM OF ONE SHEAR CONNECTOR EVERY FOOT OF BEAM SPAN LENGTH.

ALL BEAMS ARE TO BE FABRICATED WITH NATURAL CAMBER UP.

ALL STIFFENER PLATES ARE TO BE PROVIDED IN PAIRS, EACH SIDE OF BEAM OR COLUMN WEB, UON.

PRIOR TO DETAILING STRUCTURAL STEEL THE FABRICATOR SHALL SUBMIT PLANS FOR EACH LEVEL AND CONFIRM ALL DIMENSIONS.

THE FRACTURE CONTRL PLAN IS APPLICABLE TO ALL FRACTURE CRITICAL MATERIAL DESIGNATED "FCM".

COMPOSITE STEEL DECK

STEEL DECK SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 33 KSI. THE DELIVERED THICKNESS IS INDICATED IN THE SPECIFICATIONS.

PROVIDE STEEL DECK WITH DEPTH AND MINIMUM THICKNESS INDICATED ON THE DRAWINGS.

THE DESIGN, MANUFACTURE AND ERECTION OF STEEL DECK AND ITS ANCHORAGE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STEEL DECK INSTITUTE'S (SDI) 'DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS'.

STEEL DECK AND ITS ANCHORAGE SHALL BE DESIGNED AND DETAILED TO SUPPORT THE CONSTRUCTION LOADS FOR THE PROJECT. CONSTRUCTION LOADS FOR WET CONCRETE SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

A. THE CONCRETE INSTALLATION METHODS
B. ADDITIONAL CONCRETE VOLUME OF 15% DUE TO PONDING
C. ADDITIONAL CONCRETE WEIGHT DUE TO DECK DEFLECTION

PROVIDE CHECKED SHOP DRAWINGS SHOWING EXACT LAYOUT OF COMPOSITE BEAM SHEAR CONNECTIONS FOR EACH BEAM, SPAN, AND DECK TYPE.

NO LOADS EXCEEDING 50 LBS SHALL BE PERMITTED TO BE HUNG FROM COMPOSITE DECKING HANGER TABS. HANGER LOADS SHALL BE DISTRIBUTED SUCH THAT THE RESULTING UNIFORM TRIBUTARY LOAD FOR EACH HANGER DOES NOT EXCEED 5 PSF.

STEEL DECK SPANS SHALL BE MINIMUM THREE SPANS CONTINUOUS WHENEVER POSSIBLE.

STEEL DECK SHALL BE WELDED TO THE SUPPORTING STEEL MEMBERS AT A MAXIMUM OF 12" ON CENTER, USING 3/4" PUDDLE WELDS, AND SIDE LAP FASTENERS NOT EXCEEDING 12" ON CENTER U.O.N.

ALL DECKING SHALL BE WELDED TO STRUCTURAL STEEL BY QUALIFIED WELDERS USING PRE-QUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE WELD OF THE STEEL DECKING TO THE STRUCTURAL STEEL FOR EACH GAUGE USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, EACH WELDER SHALL BE QUALIFIED USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S TESTING AND INSPECTION SERVICE.

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COLD FORMED METAL FRAMING

THE DESIGN OF THE COLD FORMED METAL FRAMING SHALL BE IN ACCORDANCE WITH AISC "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND AS PER SPECIFICATION SECTION 05400.

CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DESIGN CALCULATIONS FOR COLD FORMED FRAMING TO THE ENGINEER FOR APPROVAL. CALCULATIONS SHALL SHOW THE ADEQUACY OF FRAMING SYSTEM TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:

A. EXTERIOR NON LOAD BEARING WALLS; LATERAL DEFLECTION OF 1/240 OF THE WALL HEIGHT

B. EXTERIOR LOAD BEARING WALLS; LATERAL DEFLECTION OF 1/360 OF THE WALL HEIGHT

C. FLOOR JOISTS; VERTICAL DEFLECTION OF 1/360 OF THE SPAN

DELEGATED DESIGN NOTES

DESIGN RESPONSIBILITY FOR THE FOLLOWING ENGINEERED SYSTEMS AND COMPONENTS IS DELEGATED TO A QUALIFIED SPECIALTY STRUCTURAL ENGINEER SELECTED BY THE CONTRACTOR. THESE SYSTEMS AND COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:

A. STRUCTURAL STEEL CONNECTIONS, INCLUDING BRACED FRAME AND MOMENT FRAME CONNECTIONS
B. COLD-FORMED STEEL FRAMING AND CONNECTIONS
C. STEEL STAIRS
D. PRE-ENGINEERED METAL BUILDINGS
E. PRE-ENGINEERED CANOPY STRUCTURES
F. CURTAIN WALL AND STOREFRONT WALL SYSTEMS
G. SPECIALTY FOUNDATION SYSTEMS SUCH AS GEOPIERS AND MICROPILES
H. SPECIALITY ANCHORING SYSTEMS SUCH AS SOIL ANCHORS.

DELEGATED ENGINEERED SYSTEMS AND COMPONENTS SHALL SATISFY ASCE 7-22 LOAD COMBINATIONS.

COORDINATE WITH THE CONTRACT DOCUMENTS FOR PROFESSIONAL LICENSURE AND SEALING REQUIREMENTS, DESIGN CRITERIA, DETAILS OF THE SYSTEM/COMPONENT INTERFACE WITH THE PRIMARY STRUCTURE, SUBMITTAL REQUIREMENTS, AND CALCULATION REQUIREMENTS.

FOUNDATION NOTES

FOR FOUNDATION NOTES, SEE SHEET "TYPICAL SECTION AND QUANTITES".

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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GENERAL NOTES

SHEET S-002
PRE_125

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PLOT DATE: 2/1/2022 PLOT TIME: 1:18:43 PM
BATCH PRINT SHEET 3 OF 11

FOUNDATION NOTES

PROVIDE SHEETING, BRACING, AND UNDERPINNING TO PRESERVE ADJACENT STRUCTURE, AS REQUIRED.

FOUNDATIONS SHALL NOT BE PLACED IN WATER OR IN FROZEN GROUND.

PROVIDE A WELL COMPACTED SELECT GRAVEL BASE COURSE CONFORMING TO THE SPECIFICATIONS UNDER ALL SLABS ON GRADE.

ALL REQUIRED INSERTS SLEEVES, CONDUITS, EMBEDMENT AND PENETRATIONS MUST BE VERIFIED WITH RESPECTIVE TRADE BEFORE CASTING CONCRETE.

DOWELS FROM FOOTINGS INTO PIERS, COLUMNS, BUTTRESSES OR WALLS SHALL BE THE SAME SIZE AND NUMBER AS REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES OR WALLS ABOVE, EXCEPT AS OTHERWISE SHOWN.

CONTRACTOR SHALL PROVIDE CONTINUOUS DRAINAGE TO CONTROL SURFACE WATER, AS REQUIRED DURING CONSTRUCTION.

ALL FOOTINGS SHALL BE CENTERED UNDER SUPPORTED MEMBERS, UNLESS NOTED OTHERWISE ON PLANS.

DO NOT PLACE BACKFILL AGAINST WALLS UNTIL ALL SLABS AND WALL BRACING ARE IN PLACE AND AFTER CONCRETE HAS ATTAINED DESIGN STRENGTH. SHORE AND/OR BRACE WALLS AS REQUIRED IF BACKFILLING OPERATIONS ARE TO BE CARRIED OUT PRIOR TO PLACEMENT OF FLOOR SLABS.

PLACE BACKFILL AGAINST RETAINING WALLS - DESIGNED AS CANTILEVERED - AFTER CONCRETE HAS ATTAINED DESIGN STRENGTH AND BEFORE SLABS ARE IN PLACE.

WHERE BACKFILL IS TO BE PLACED ON BOTH SIDES OF FOUNDATIONS WALLS, PROVIDE A BALANCED BACKFILL AGAINST FOUNDATION WALLS TO ELIMINATE LATERAL LOADS EFFECTS, OR PROVIDE NECESSARY TEMPORARY LATERAL SUPPORT TO THE TOP OF THE WALL UNTIL PERMANENT SUPPORT IS INSTALLED.

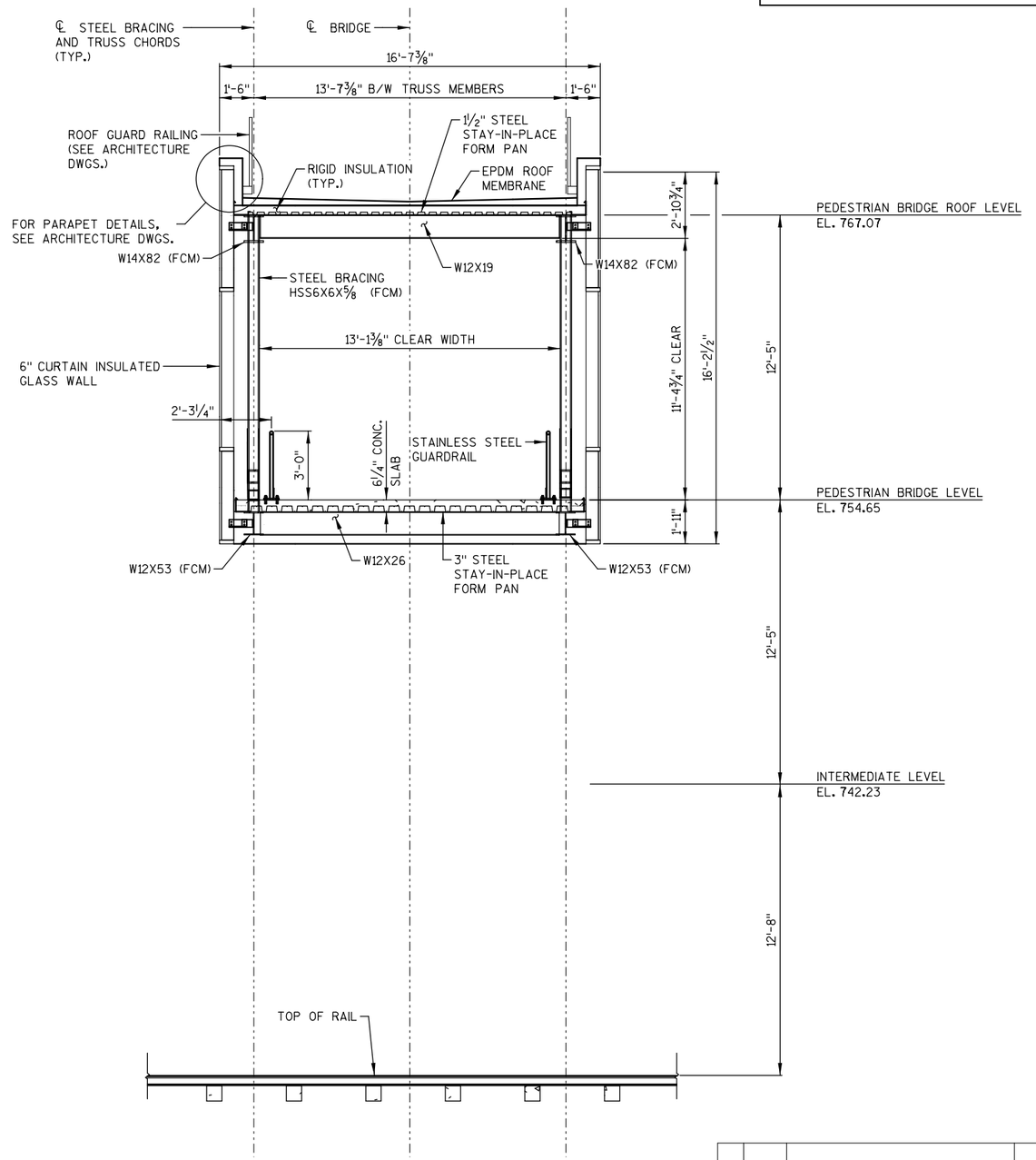
BACKFILL MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY, AS DETERMINED BY THE MODIFIED PROCTOR METHOD (ASTM D1557), IN LIFTS NOT EXCEEDING 6 INCHES.

BACKFILL MATERIAL AGAINST RETAINING WALLS - DESIGNED AS CANTILEVERS SHALL BE GRANULAR FILL WITH PERIMETER DRAINPER THE GEOTECHNICAL REPORT.

HELICAL PILE DESIGN CRITERIA

TOTAL ESTIMATED QUANTITIES

Bid Item Number	Bid Item	Unit	Totals
206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE)	LS	1
209.1100	BACKFILL GRANULAR GRADE 1	CY	215
210.1100	BACKFILL STRUCTURE TYPE A	CY	1082
502.0100	CONCRETE MASONRY BRIDGES	CY	1222
502.4104	ADHESIVE ANCHORS 1/2-INCH	EACH	136
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	71900
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	64200
511.1100	TEMPORARY SHORING	SF	2400
513.2001	RAILING PIPE	LF	180
517.0600	PAINTING EPOXY SYSTEM	LS	1
SPV.0060.01	DIESEL-ENGINE-DRIVEN GENERATOR SETS	EACH	1
SPV.0060.02	CANOPY ANCHOR ROD ASSEMBLIES	EACH	26
SPV.0060.03	COLUMN ANCHOR ROD ASSEMBLIES	EACH	46
SPV.0060.04	SWITCHBOARDS	EACH	1
SPV.0060.05	TRANSFER SWITCHES	EACH	1
SPV.0060.06	TRACTION ELEVATORS	EACH	4
SPV.0060.07	DOORS AND DOOR HARDWARE	EACH	22
SPV.0085.01	STRUCTURAL STEEL	LB	341704
SPV.0090.01	DRILLED SHAFT FOUNDATIONS 36-INCH	LF	1440
SPV.0090.02	DRILLED SHAFT FOUNDATIONS 24-INCH	LF	510
SPV.0090.03	HELICAL PILE 3.5-INCH	LF	3720
SPV.0105.01	HVAC WORK	LS	1
SPV.0105.02	LIGHTING	LS	1
SPV.0105.03	GENERAL ELECTRICAL WORK	LS	1
SPV.0105.04	FIRE ALARM	LS	1
SPV.0105.05	LIGHTNING PROTECTION FOR STRUCTURES	LS	1
SPV.0105.06	PLUMBING WORK	LS	1
SPV.0105.07	STAIRS	LS	1
SPV.0105.08	ROUGH CARPENTRY	LS	1
SPV.0105.09	METAL FABRICATIONS	LS	1
SPV.0105.10	GYPSUM BOARD PARTITIONS AND ASSEMBLIES	LS	1
SPV.0105.11	CEILINGS	LS	1
SPV.0105.12	INTERIOR AND EXTERIOR SIGNAGE	LS	1
SPV.0105.13	PLUMBING FIXTURES	LS	1
SPV.0105.14	WINDOW WASHING SYSTEM	LS	1
SPV.0105.15	OTHER ARCHITECTURAL WORK	LS	1
SPV.0105.16	FIRE SUPPRESSION	LS	1
SPV.0105.17	PIDS, COMMUNICATION AND SECURITY WORK	LS	1
SPV.0165.01	MASONRY AND CAST STONE WORK	SF	9568
SPV.0165.02	CONCRETE SLAB FORM PAN	SF	4329
SPV.0165.03	ALUMINUM AND GLASS CURTAINWALLS	SF	2211
SPV.0165.04	ROOFING AND ACCESSORIES	SF	15681
SPV.0165.05	EXTERIOR METAL PANELS	SF	1274
SPV.0165.06	LOUVERS	SF	1278
SPV.0165.07	FINISHES	SF	20373



1 S-002 TYPICAL BRIDGE SECTION

STATE PROJECT NUMBER

1000-57-05

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

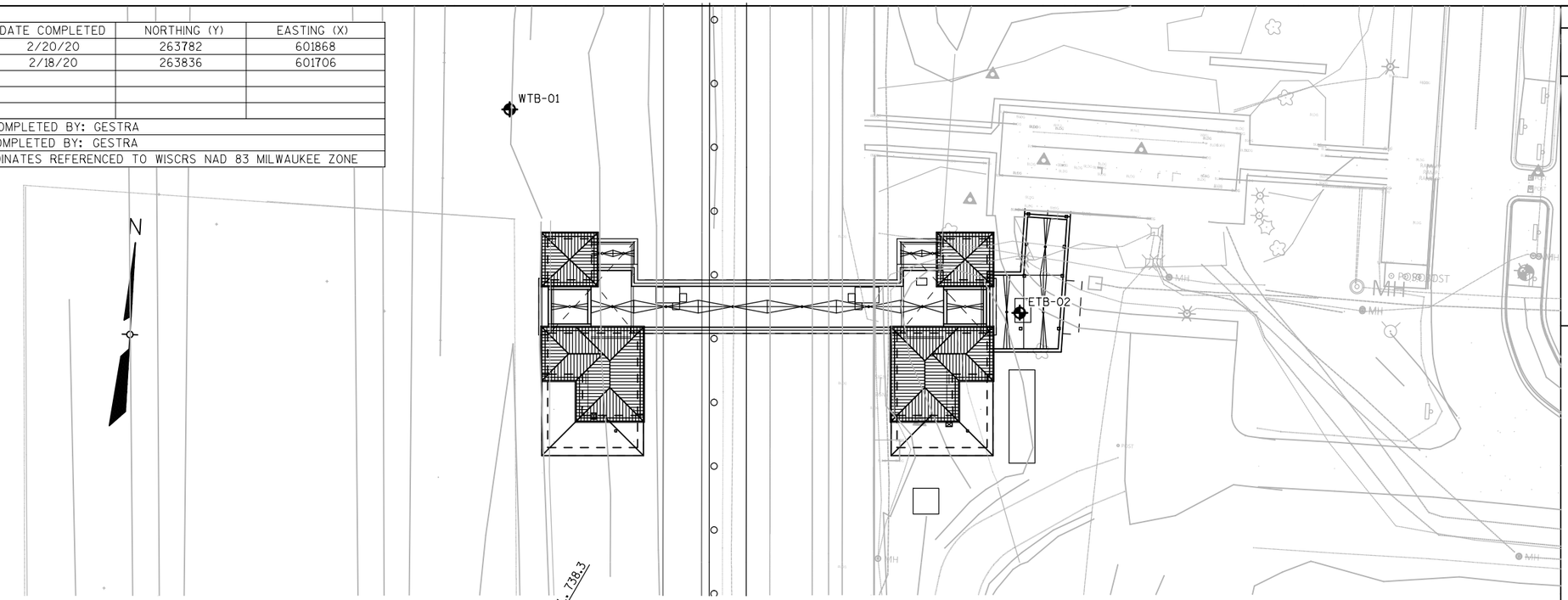
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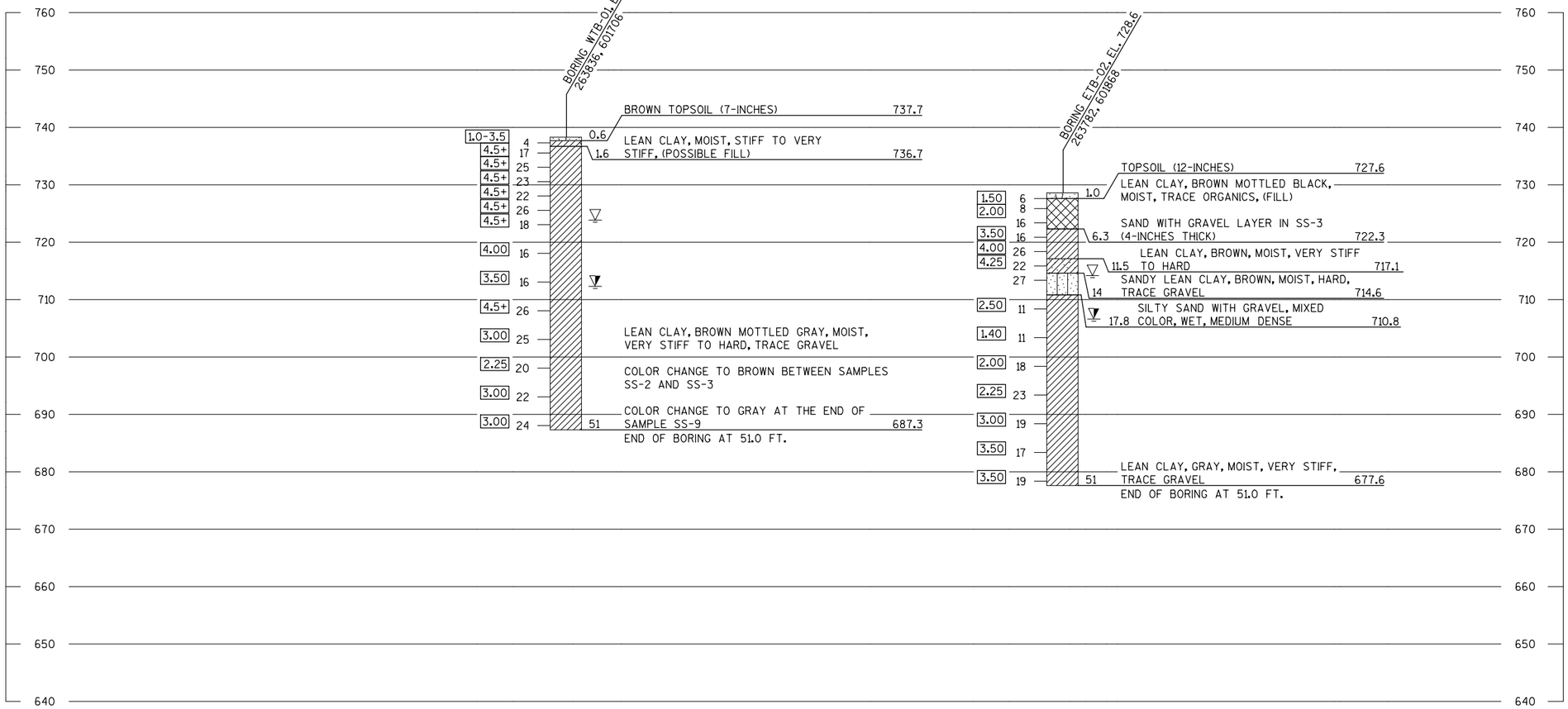
TYPICAL SECTION AND QUANTITIES

SHEET S-003
PRE_126

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
ETB-02	2/20/20	263782	601868
WTB-01	2/18/20	263836	601706

BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: GESTRA
ALL COORDINATES REFERENCED TO WISCRS NAD 83 MILWAUKEE ZONE





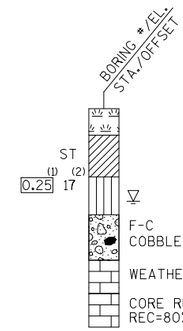
STATE PROJECT NUMBER

0385-57-05

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

▽ AT TIME OF DRILLING
▼ END OF DRILLING
▼ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN BRIDGE

DRAWN BY CEB PLANS CK'D.

SUBSURFACE EXPLORATION

SHEET S-004
PRE_127

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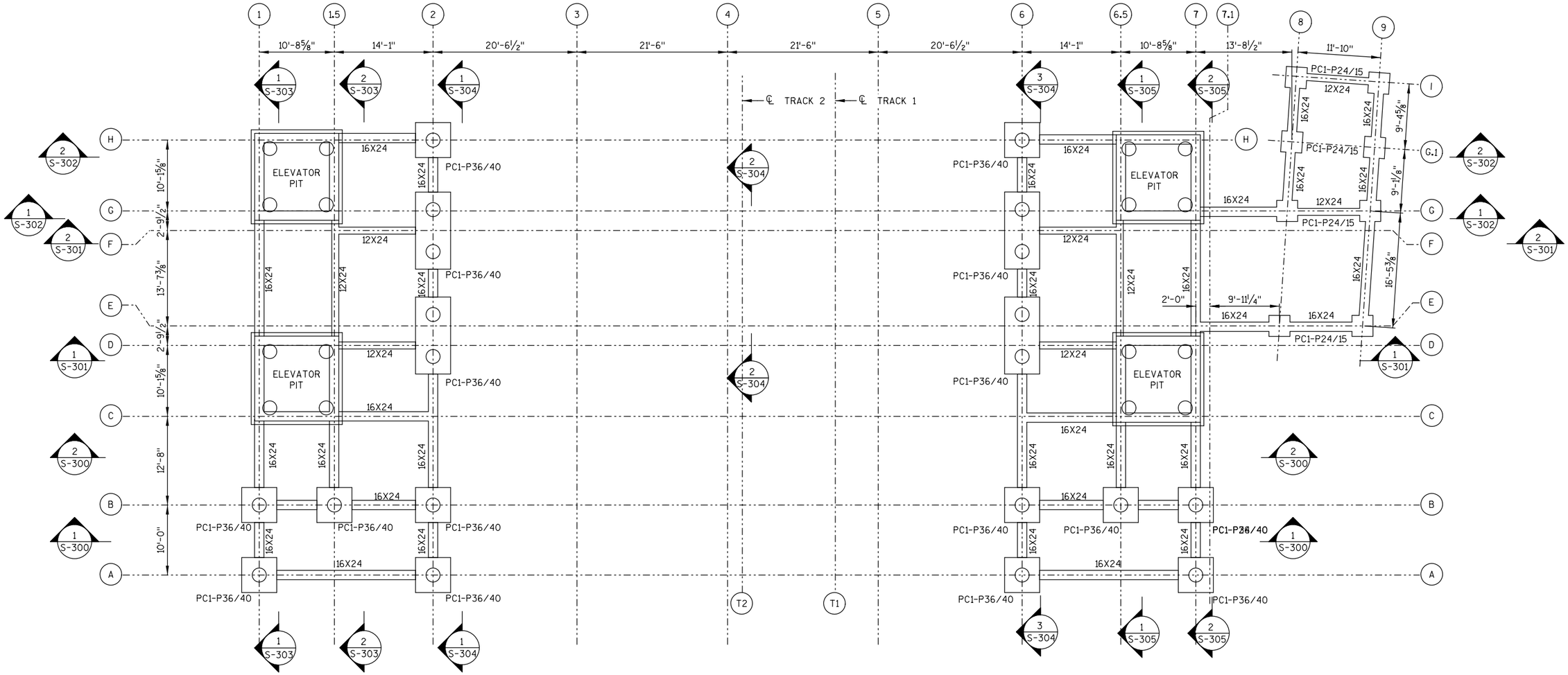
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BATCH PRINT SHEET 5 OF 11

STATE PROJECT NUMBER

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1 S-100 FOUNDATION PLAN
NTS

LEGEND

PC1-PXX/XX
DIA. (INCHES) — SHAFT DEPTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

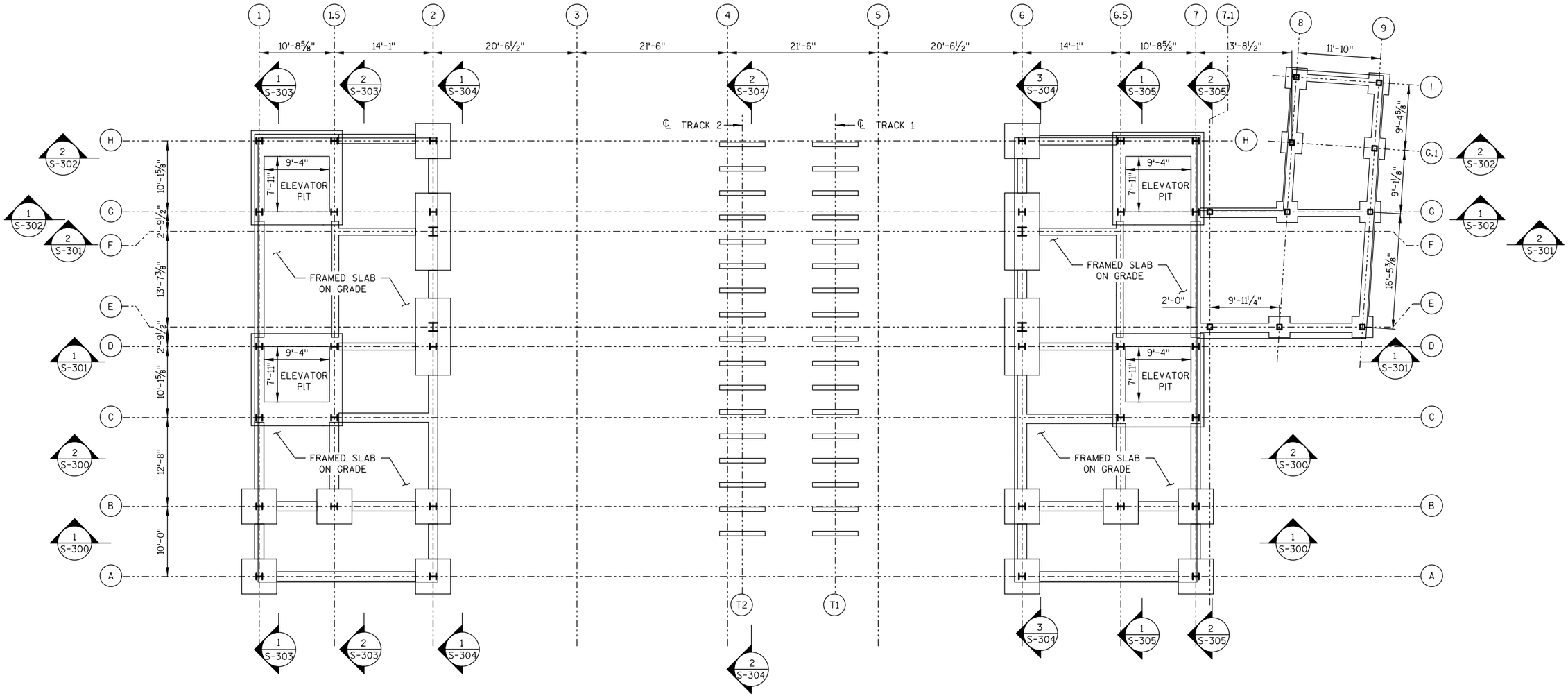
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FOUNDATION PLAN

SHEET S-100
PRE_128

STATE PROJECT NUMBER

1000-57-05



1 S-101 PLATFORM LEVEL
NTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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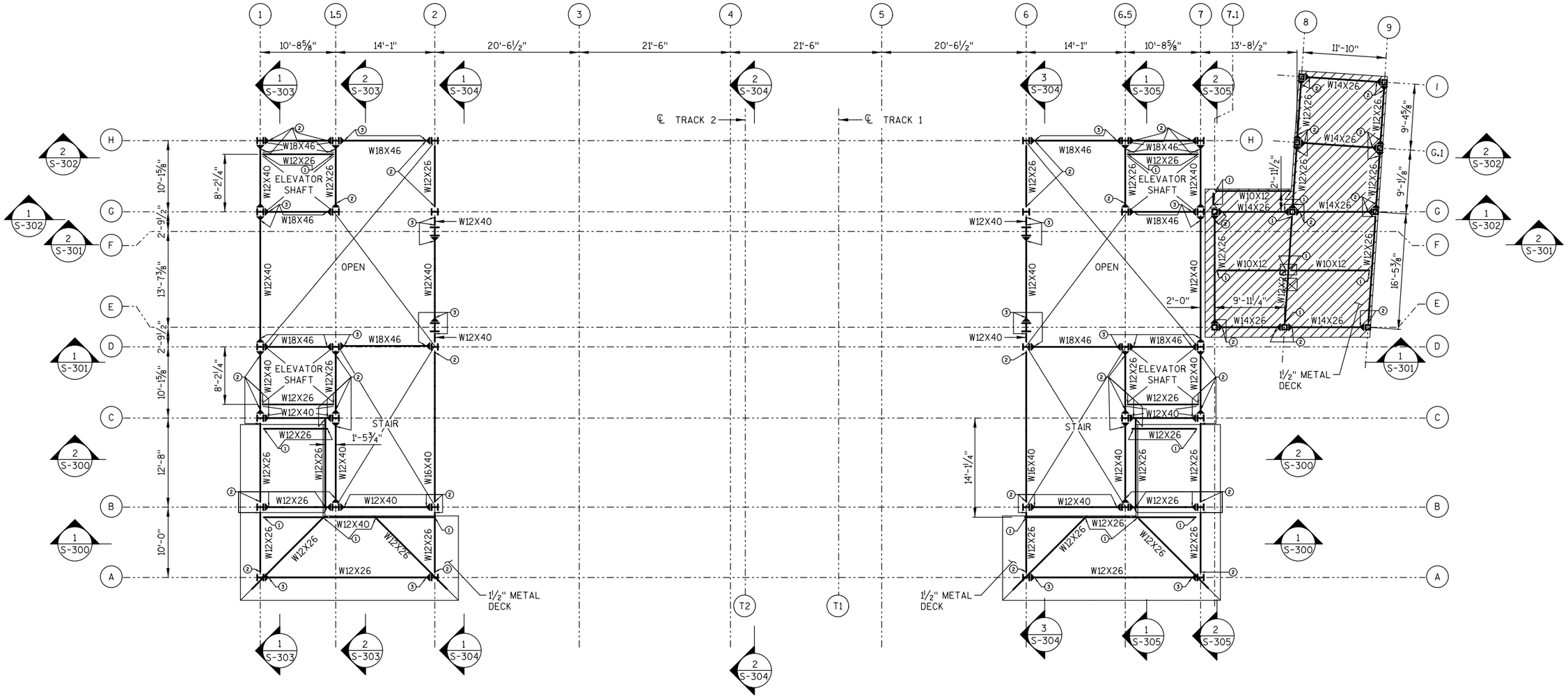
PLATFORM LEVEL

SHEET S-101
PRE_129

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BATCH PRINT SHEET 6 OF 11

STATE PROJECT NUMBER

1000-57-05



1 S-102 INTERMEDIATE LEVEL
NTS

LEGEND:

(1) SHEAR LOAD = 5 KIPS
(2) SHEAR LOAD = 10 KIPS
(3) SHEAR LOAD = 15 KIPS
(4) SHEAR LOAD = 20 KIPS
(5) SHEAR LOAD = 25 KIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

INTERMEDIATE LEVEL

SHEET S-102
PRE_130

8

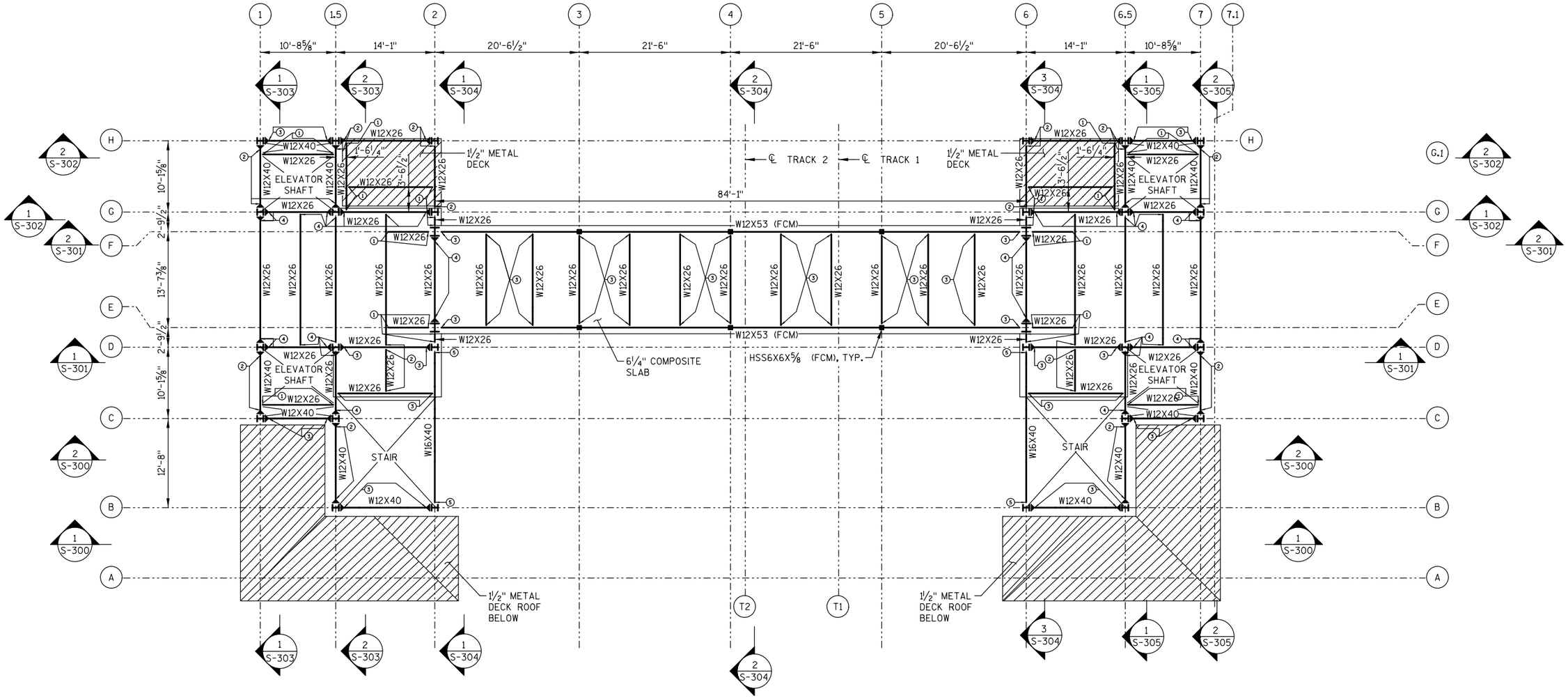
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STATE PROJECT NUMBER

1000-57-05



LEGEND:

(1) SHEAR LOAD = 5 KIPS
(2) SHEAR LOAD = 10 KIPS
(3) SHEAR LOAD = 15 KIPS
(4) SHEAR LOAD = 20 KIPS
(5) SHEAR LOAD = 25 KIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

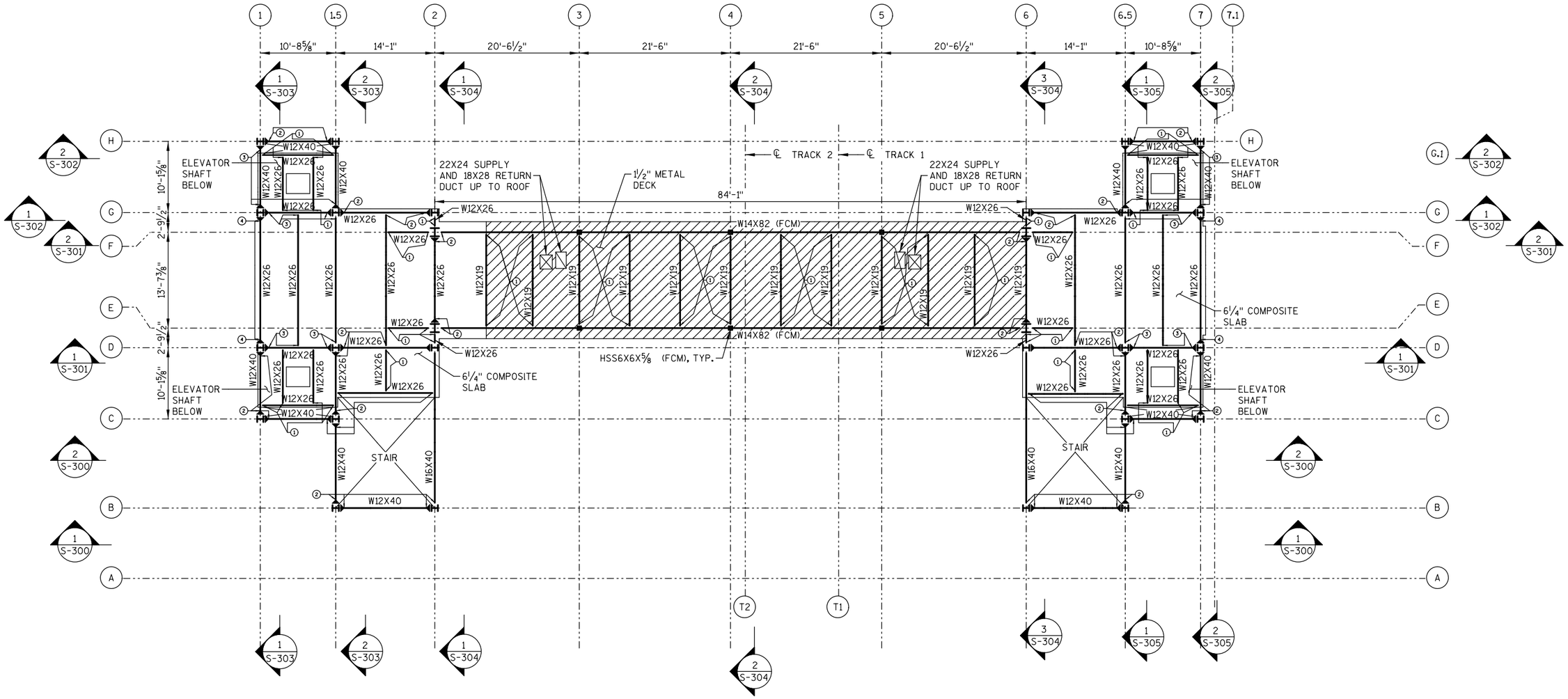
STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

PEDESTRIAN BRIDGE LEVEL

SHEET S-103
PRE_131

STATE PROJECT NUMBER
1000-57-05



1 S-104 TOP OF PEDESTRIAN BRIDGE LEVEL
NTS

LEGEND:

1. SHEAR LOAD = 5 KIPS
2. SHEAR LOAD = 10 KIPS
3. SHEAR LOAD = 15 KIPS
4. SHEAR LOAD = 20 KIPS
5. SHEAR LOAD = 25 KIPS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

TOP OF PEDESTRIAN BRIDGE LEVEL

SHEET S-104
PRE_132

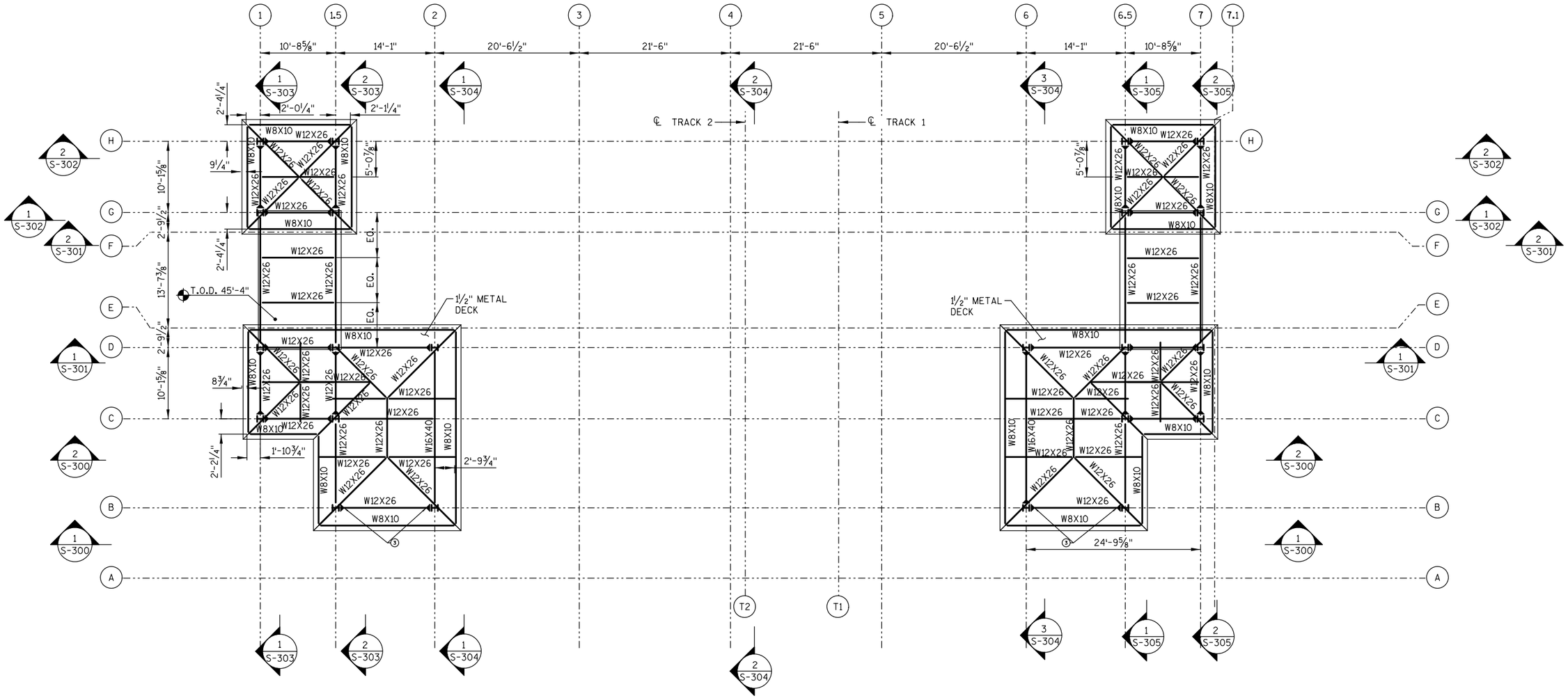
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8

STATE PROJECT NUMBER

1000-57-05



1 S-105 TOWER ROOF LEVEL
NTS

LEGEND:

(1) SHEAR LOAD = 5 KIPS
(2) SHEAR LOAD = 10 KIPS
(3) SHEAR LOAD = 15 KIPS
(4) SHEAR LOAD = 20 KIPS
(5) SHEAR LOAD = 25 KIPS

NOTES:

CONNECTION SHEAR LOAD = 5 KIPS UNLESS SHOWN OTHERWISE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

TOWER ROOF LEVEL

SHEET S-105
PRE_133

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BATCH PRINT SHEET 11 OF 11

STATE PROJECT NUMBER

1000-57-05

EMERGENCY SIDEWALK ESCAPE

EXISTING FENCE

TREE LINE

STA. 100+00 5.33'LT.

STA. 100+26.05 8.50'LT.

56'-0"

425'-10" (PLATFORM)

389'-11⅞" (CANOPY)

25 SPACES AT 19'-10" = 495'-10"

2'-1" TYP.

100+00

CANOPY FOUNDATION (TYP.)

CONCRETE PLATFORM

EXISTING PLATFORM

NEW CANOPY

EXISTING CANOPY

℄ TRACK 1

℄ TRACK 2

5'-4"

ROGERS TELECOM - COMMUNICATIONS

WEST TOWER

27'-7⅝"

25'-1¾"

12'-0"

GUTTER

PEDESTRIAN BRIDGE

10+00

11+00

GMIA - ELECTRIC

EAST TOWER

11+43.33

MATCHLINE STA. 104+25.88

EXISTING FENCE

TELEPHONE LINE

TREE LINE

STA. 105+26.05 8.50'LT.

STA. 108+00 5.33'LT.

EXISTING RETAINING WALL

374'-2" (PLATFORM)

110'-0⅛" (CANOPY)

ROGERS TELECOM - COMMUNICATIONS

CONCRETE PLATFORM

15'-0" RAMP

18'-0"

7'-7⅛"

56'-0"

EMERGENCY SIDEWALK ESCAPE

108+00

106+00

EXISTING PEDESTRAIN CROSSING

℄ TRACK 2

℄ TRACK 1

EXISTING PLATFORM

EXISTING CANOPY

N3°16'20"W

N3°16'20"W

GMIA - ELECTRIC

GMIA - ELECTRIC

MATCHLINE STA. 104+25.88

WISDOT FIBER OPTIC

RELOCATED WHEELCHAIR LIFT ENCLOSURE

ROGERS TELECOM - COMMUNICATIONS

DRAIN PIPE

EXISTING AMTRAK STATION BUILDING

EXISTING RETAINING WALL

EXISTING FENCE

8

8

1 S-106 PLATFORM PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

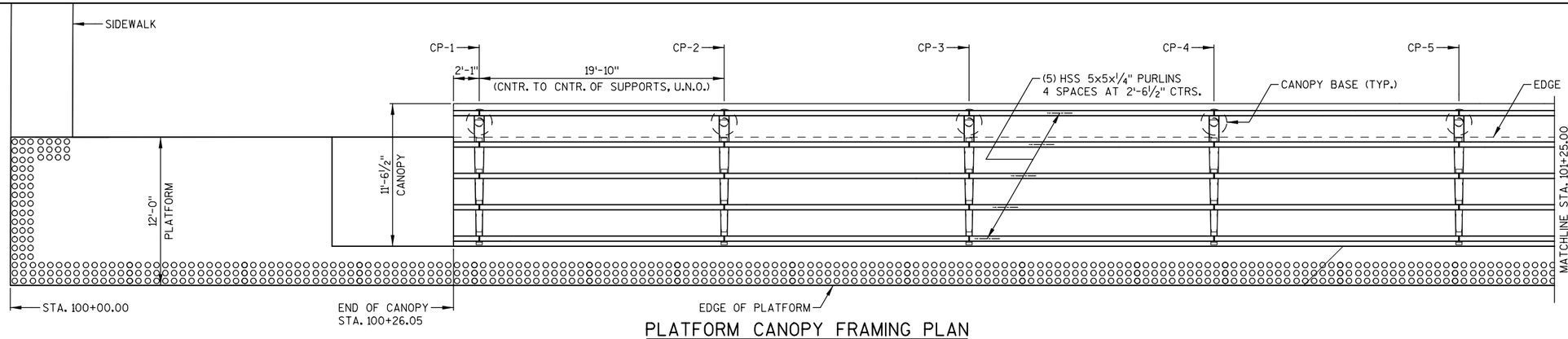
DRAWN BY GTS | PLANS CK'D. ---

PLATFORM PLAN

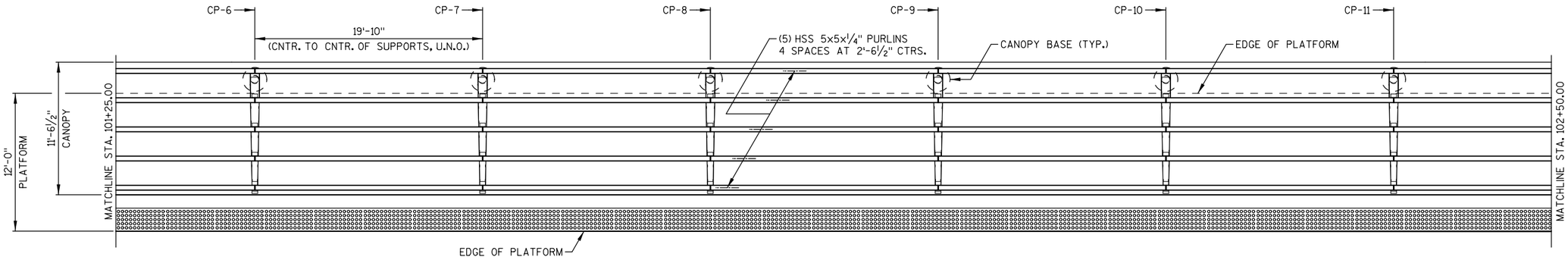
SHEET S-106
PRE_134

STATE PROJECT NUMBER

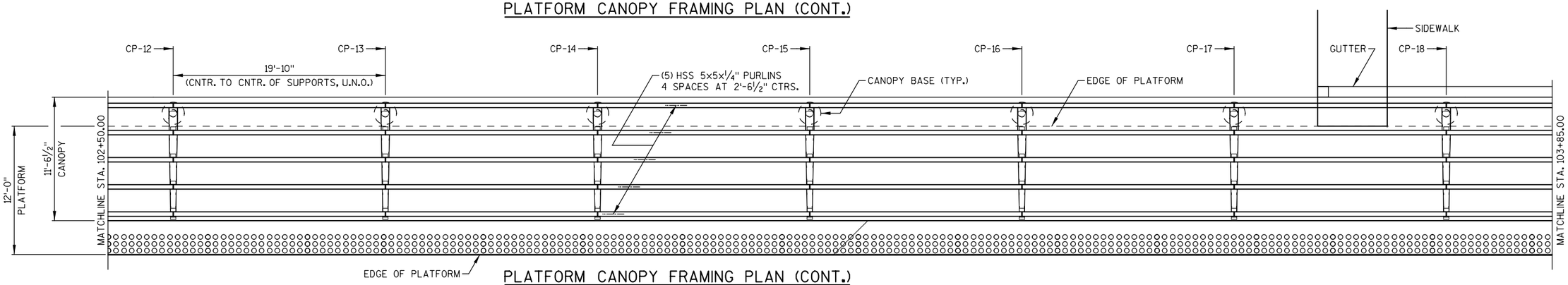
1000-57-05



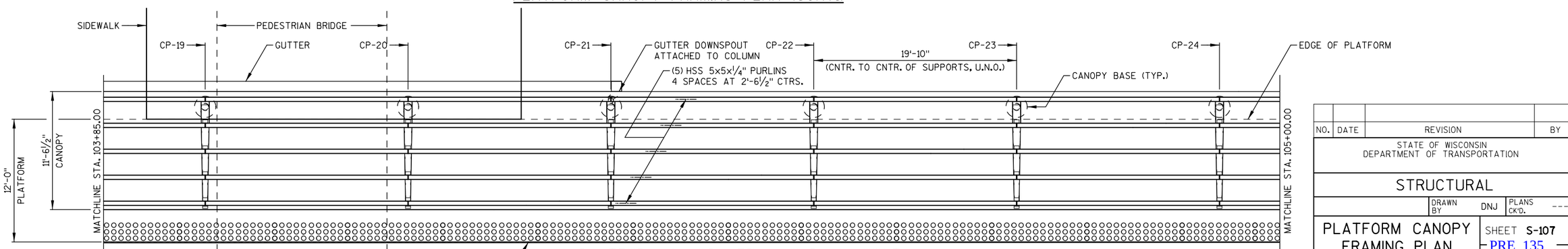
PLATFORM CANOPY FRAMING PLAN



PLATFORM CANOPY FRAMING PLAN (CONT.)



PLATFORM CANOPY FRAMING PLAN (CONT.)



PLATFORM CANOPY FRAMING PLAN (CONT.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY DNJ | PLANS CK'D. ---

PLATFORM CANOPY FRAMING PLAN (1 OF 2)

SHEET S-107
PRE_135

8

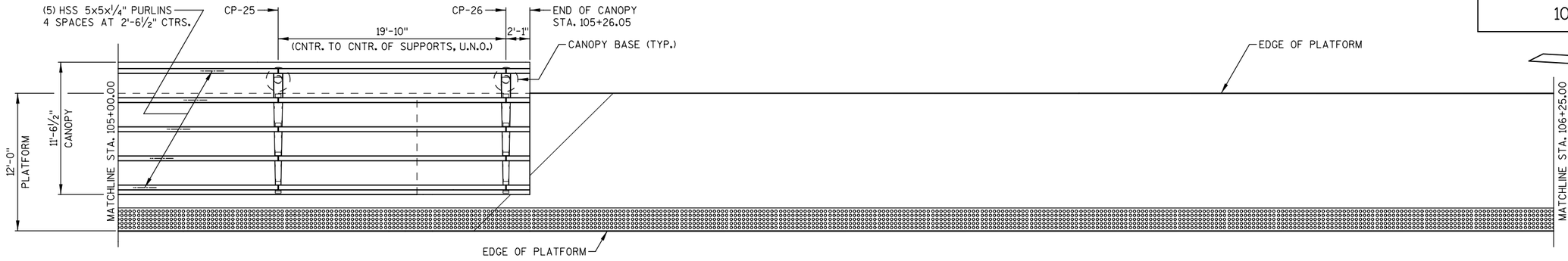
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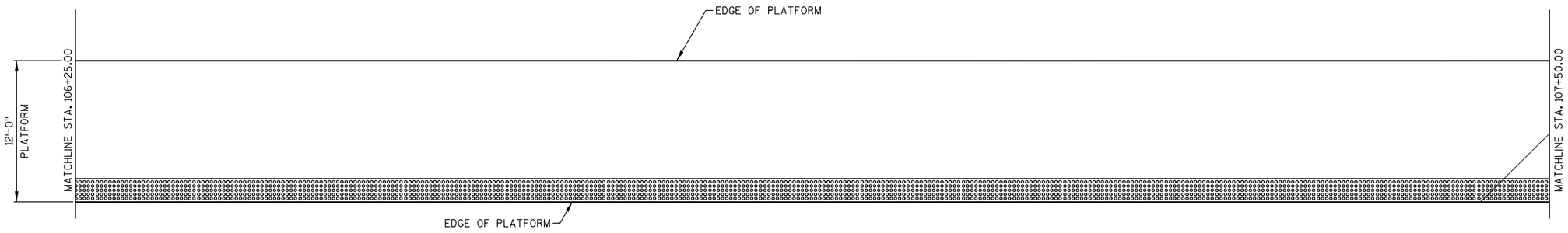
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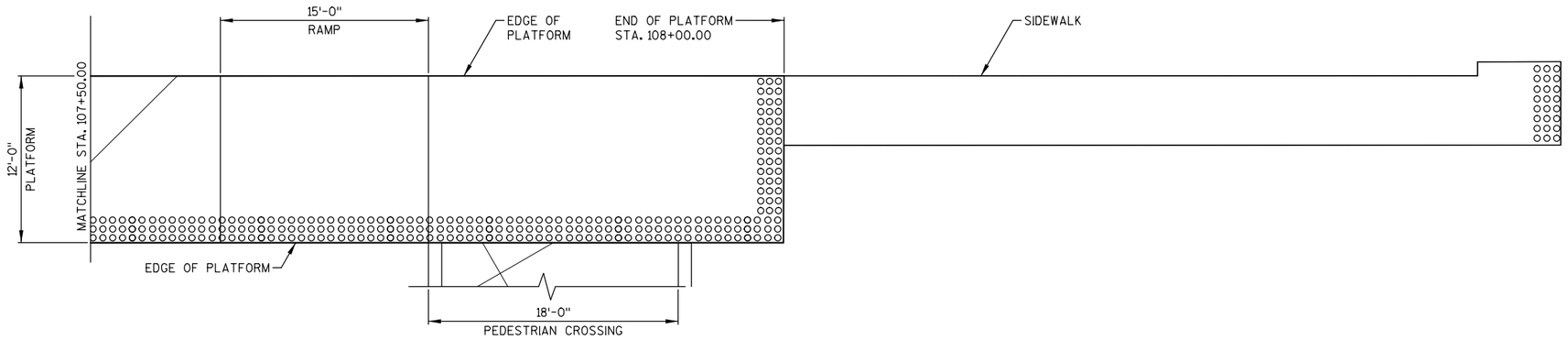
1000-57-05



PLATFORM CANOPY FRAMING PLAN



PLATFORM CANOPY FRAMING PLAN (CONT.)



PLATFORM CANOPY FRAMING PLAN (CONT.)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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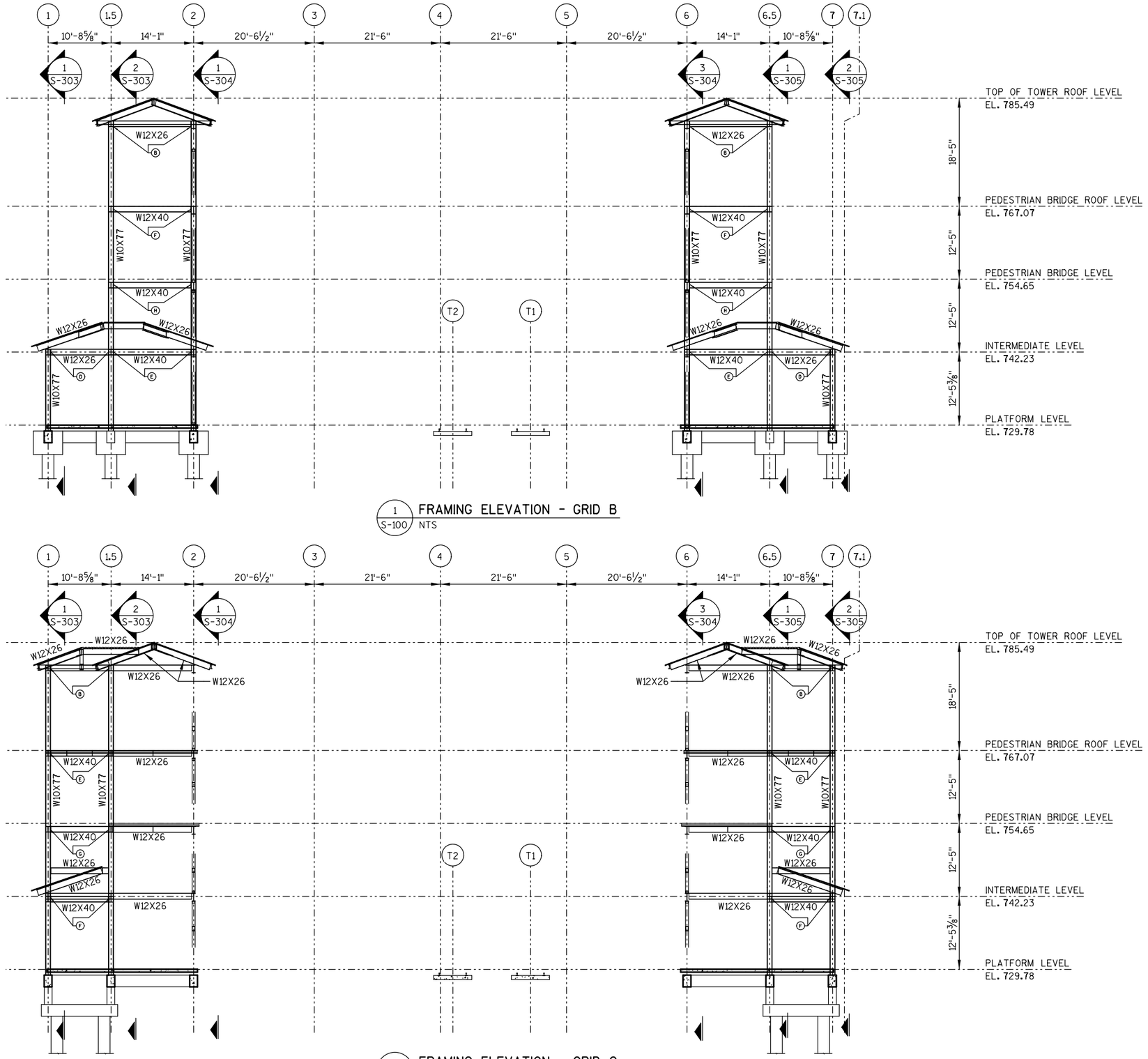
PLATFORM CANOPY FRAMING PLAN (2 OF 2)

SHEET S-108
PRE_136

8

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BATCH PRINT SHEET 3 OF 13



1 S-100 FRAMING ELEVATION - GRID B
NTS

2 S-100 FRAMING ELEVATION - GRID C
NTS

STATE PROJECT NUMBER

1000-57-05

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

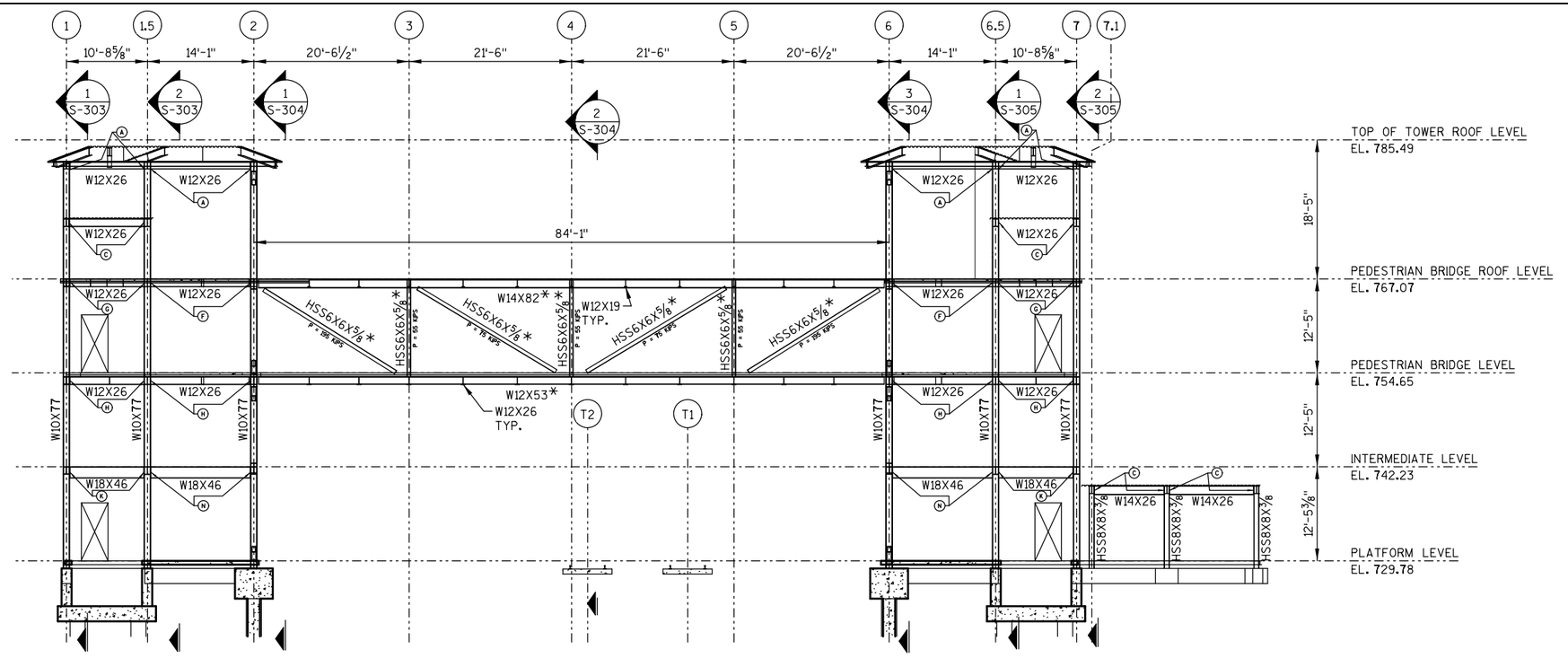
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LONGITUDINAL SECTION - GRID B & C

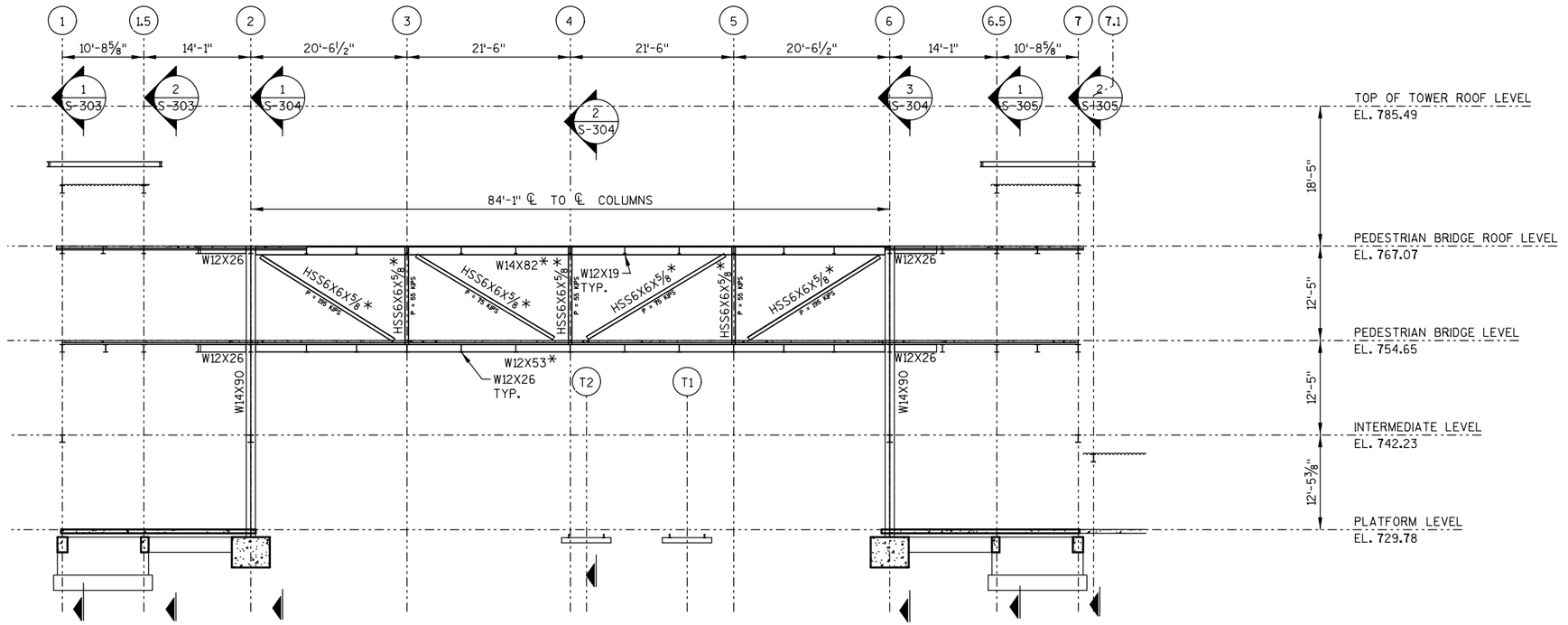
SHEET S-300
PRE_137

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8



1 S-100 FRAMING ELEVATION - GRID D
NTS



2 S-100 FRAMING ELEVATION - GRID F
NTS

STATE PROJECT NUMBER

1000-57-05

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT
- * FRACTURE CRITICAL MEMBER (FCM)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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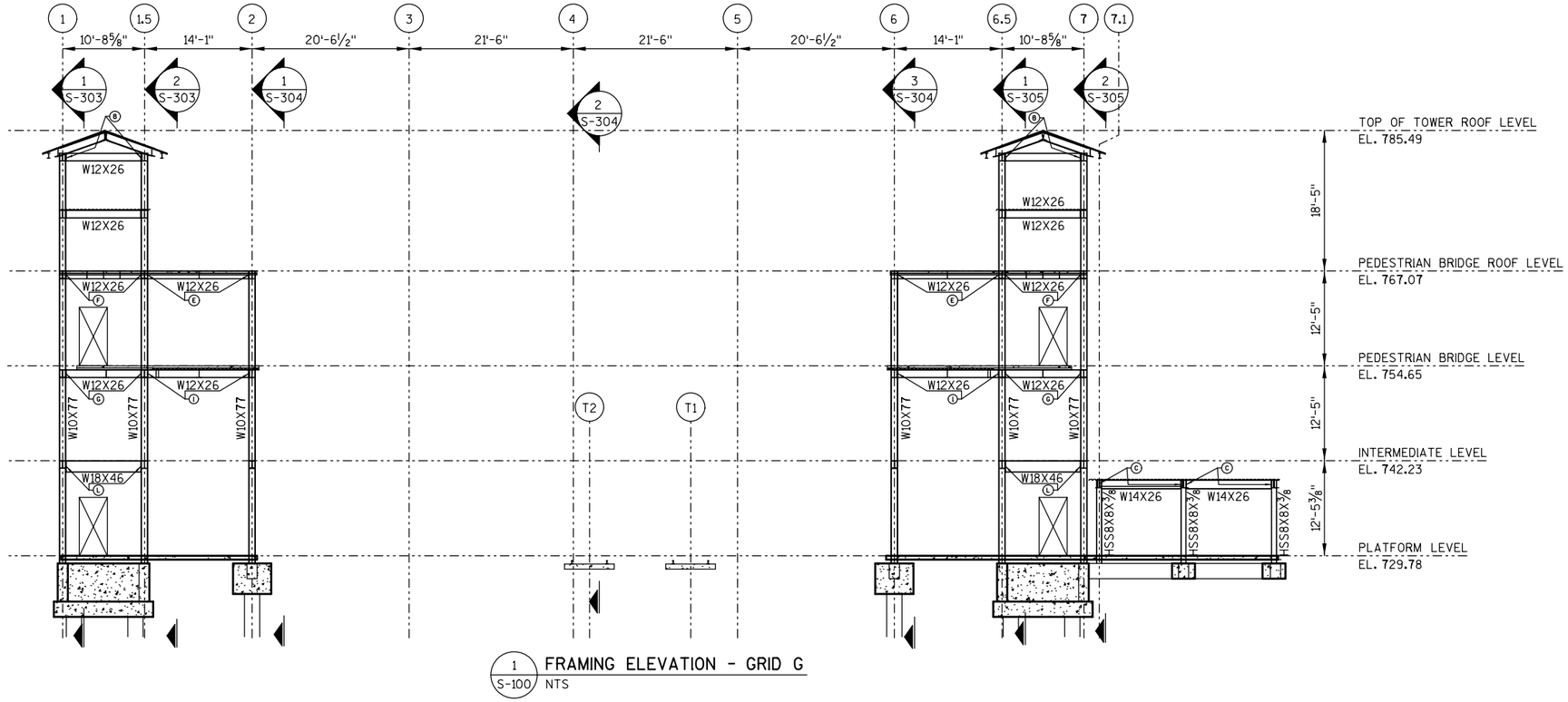
LONGITUDINAL SECTION - GRID D & F

SHEET S-301
PRE_138

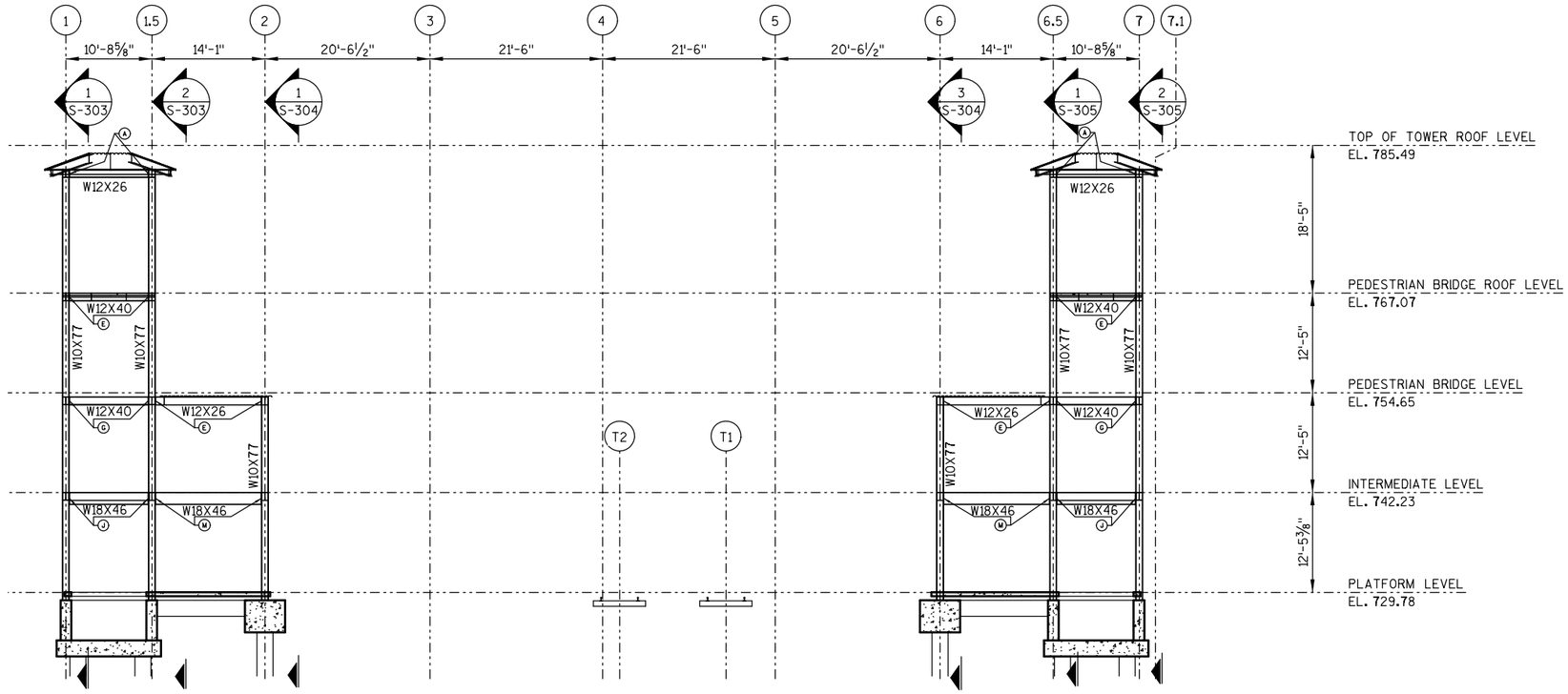
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1 S-100 FRAMING ELEVATION - GRID G
NTS



2 S-100 FRAMING ELEVATION - GRID H
NTS

STATE PROJECT NUMBER

1000-57-05

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

LONGITUDINAL SECTION - GRID G & H

SHEET S-302
PRE_139

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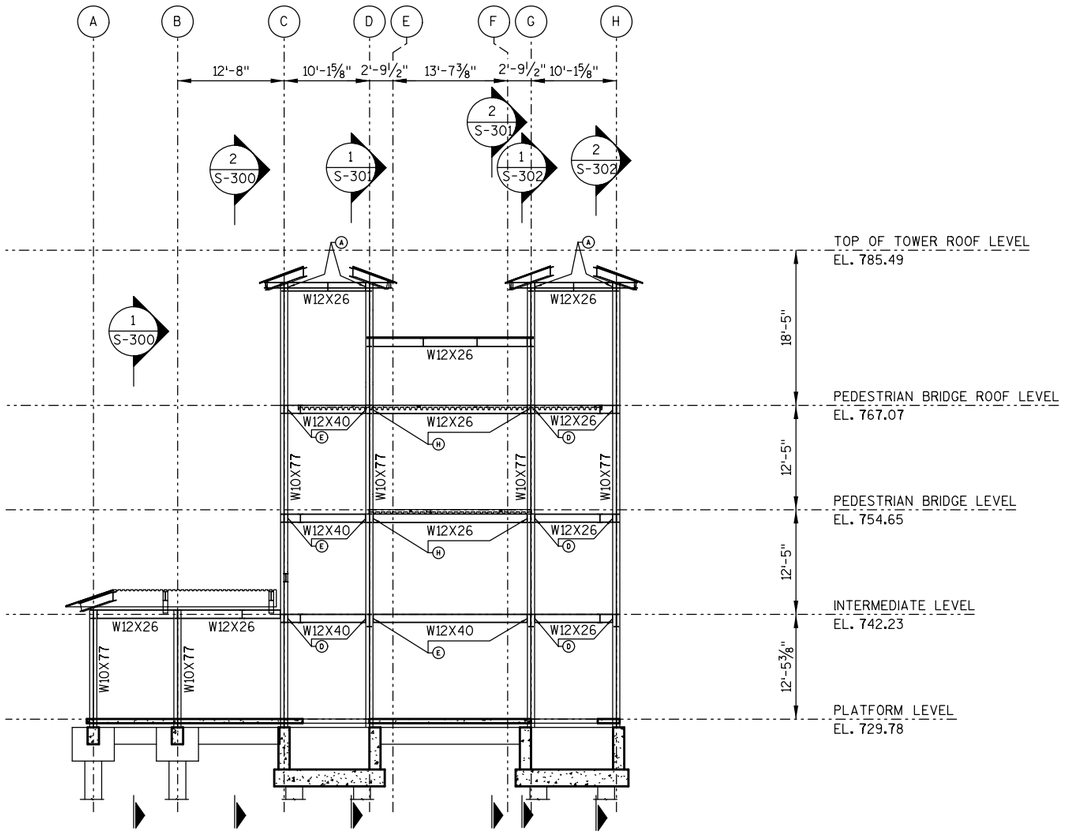
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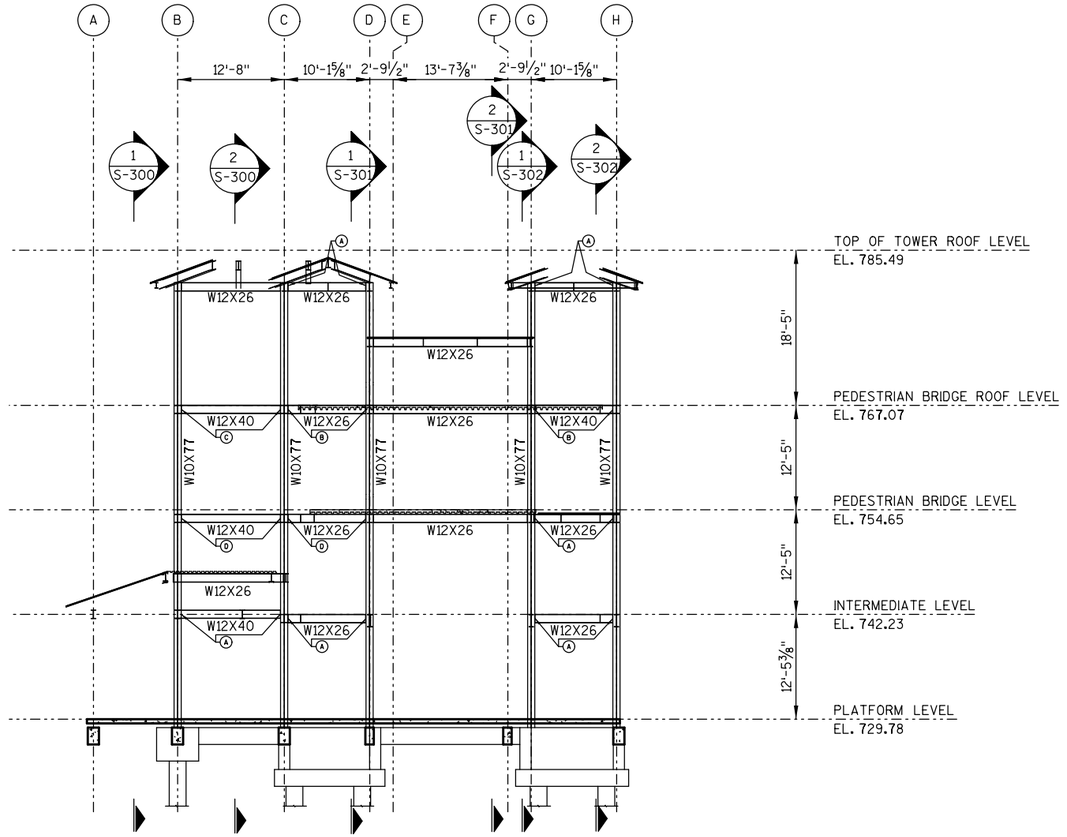
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BATCH PRINT SHEET 6 OF 13

STATE PROJECT NUMBER

1000-57-05



1 S-100 FRAMING ELEVATION - GRID 1
NTS



2 S-100 FRAMING ELEVATION - GRID 1.5
NTS

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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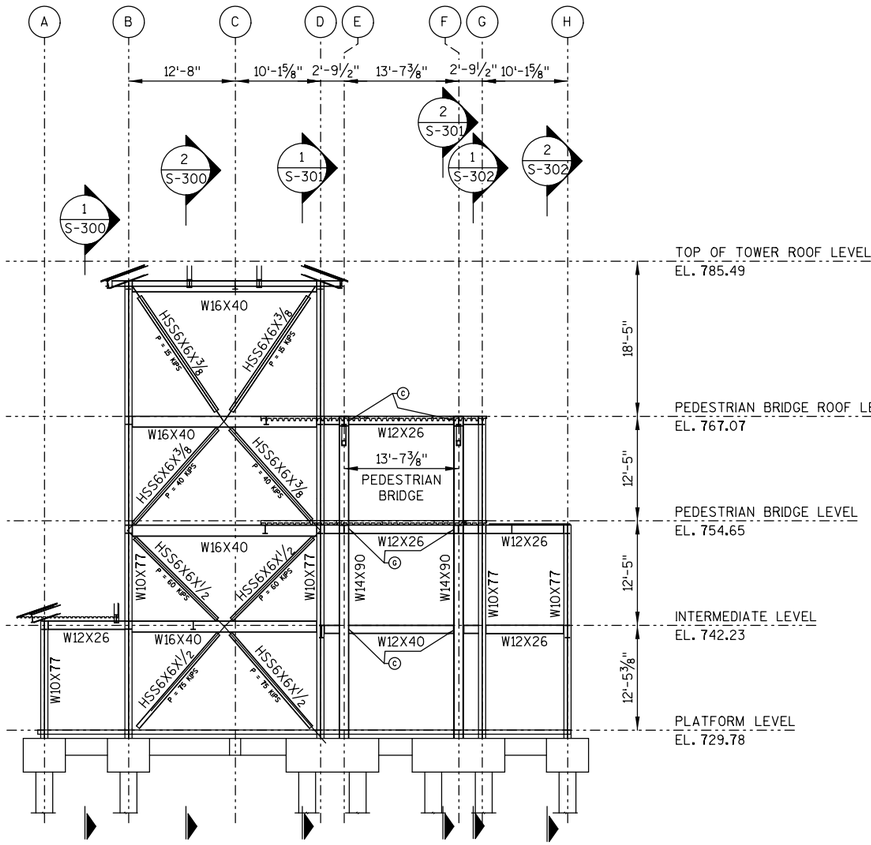
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PRE_140

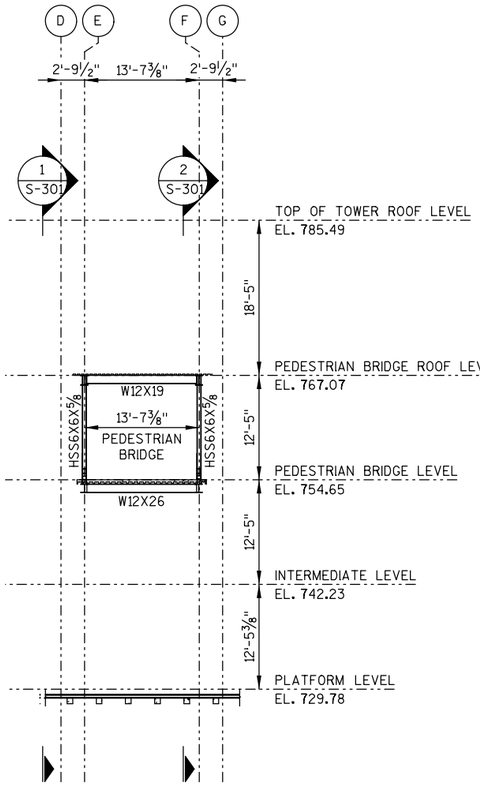
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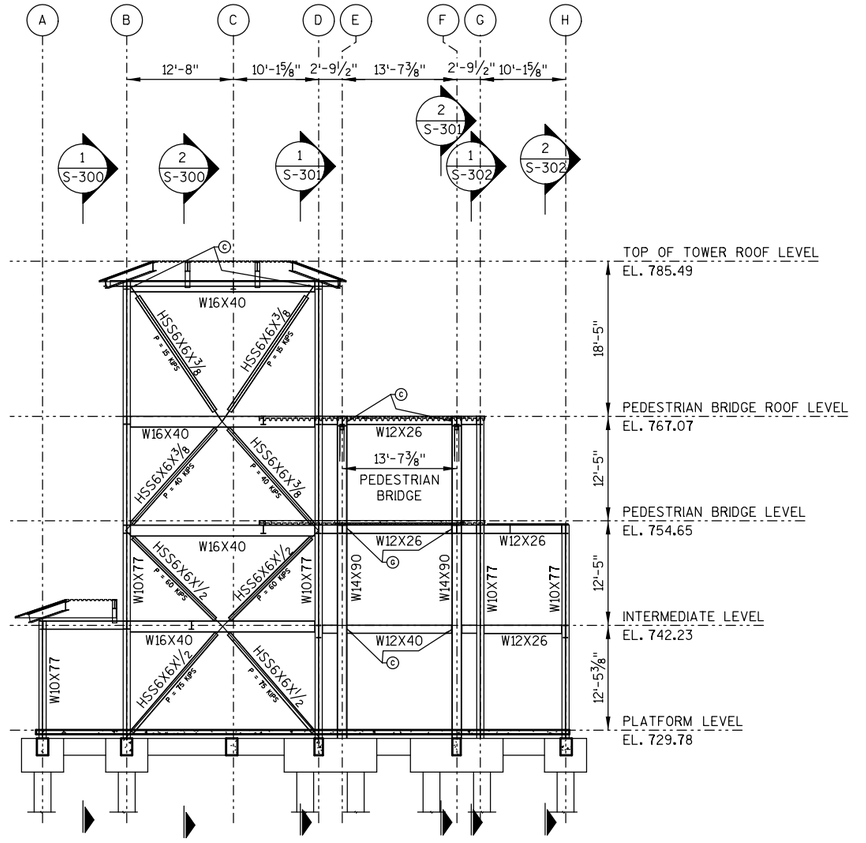
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1 S-100 FRAMING ELEVATION - GRID 2
NTS



2 S-100 FRAMING ELEVATION - GRID 4
NTS



3 S-100 FRAMING ELEVATION - GRID 6
NTS

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

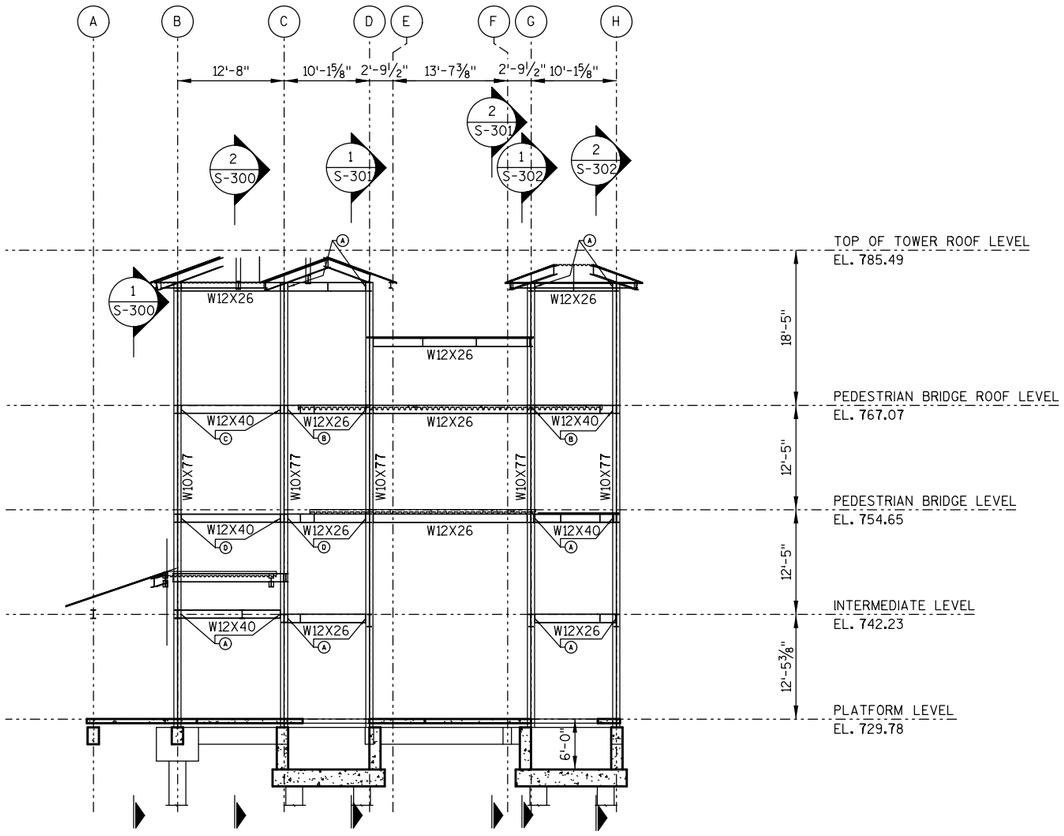
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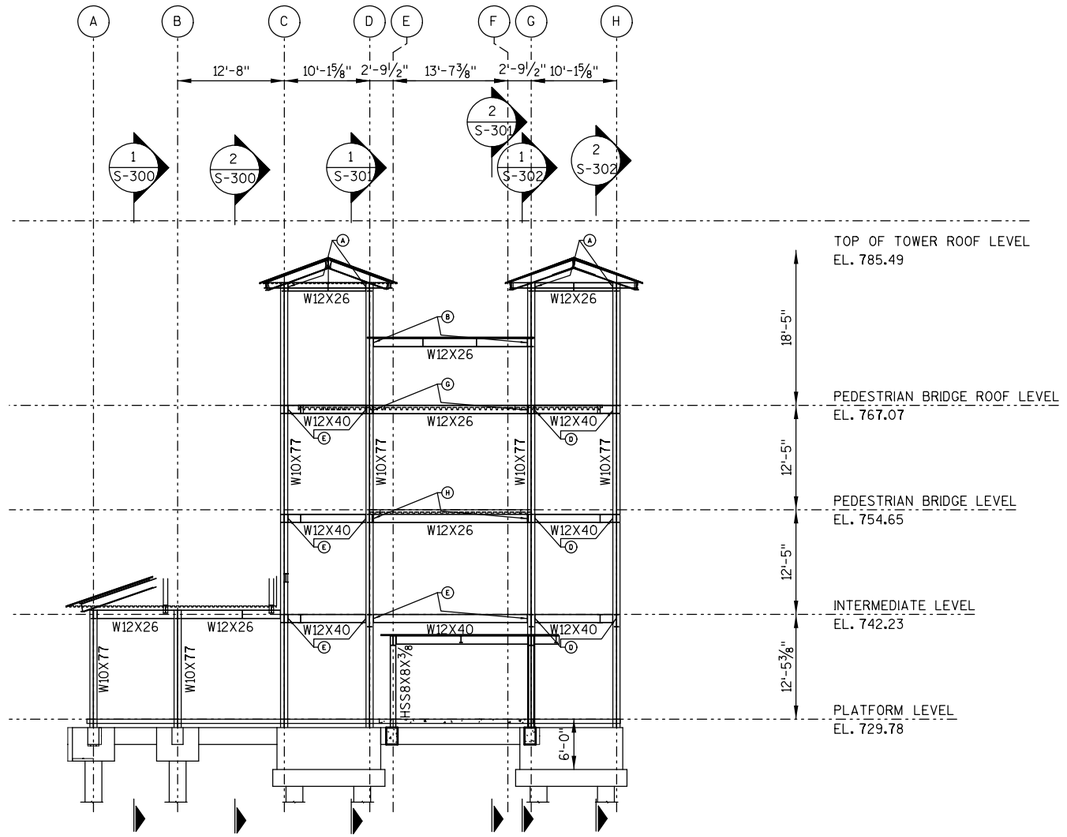
TRANSVERSE SECTION - GRID 2, 4 & 6

SHEET S-304
PRE_141

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BATCH PRINT SHEET 8 OF 13



1 S-100 FRAMING ELEVATION - GRID 6.5
NTS



2 S-100 FRAMING ELEVATION - GRID 7
NTS

LEGEND:

- (A) MOMENT = 10 KIP-FT
- (B) MOMENT = 15 KIP-FT
- (C) MOMENT = 20 KIP-FT
- (D) MOMENT = 25 KIP-FT
- (E) MOMENT = 30 KIP-FT
- (F) MOMENT = 35 KIP-FT
- (G) MOMENT = 40 KIP-FT
- (H) MOMENT = 45 KIP-FT
- (I) MOMENT = 50 KIP-FT
- (J) MOMENT = 55 KIP-FT
- (K) MOMENT = 60 KIP-FT
- (L) MOMENT = 65 KIP-FT
- (M) MOMENT = 70 KIP-FT
- (N) MOMENT = 75 KIP-FT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

TRANSVERSE SECTION - GRID 6.5 & 7

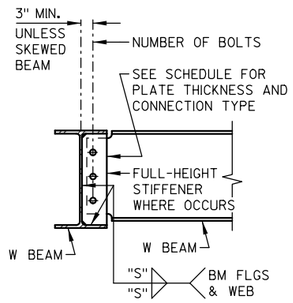
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PRE_142

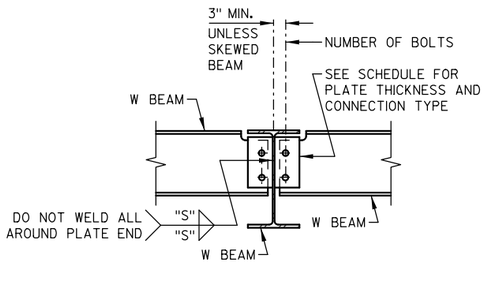
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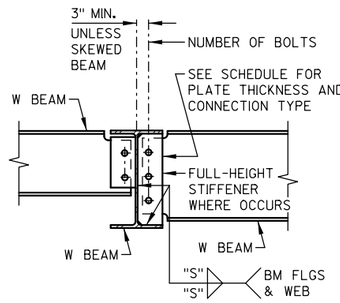
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STATE PROJECT NUMBER

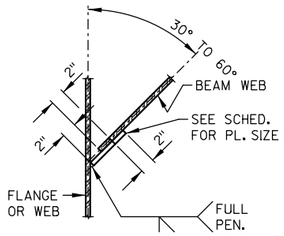
1000-57-05







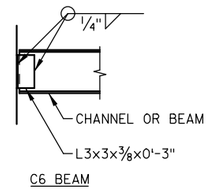
BEAM TO BEAM CONNECTION



PLAN AT SKEWED BEAM

NOTES

1. BOLTS SPACED @ 3" O.C. TYP. U.N.O. USE 7/8" DIA. A325N BOLTS TYP. U.N.O.
2. TYPICAL BOLTS ARE BEARING (N) TYPE BOLTS WITH THE FOLLOWING EXCEPTIONS: FOR BEAMS AT BRACING CONNECTIONS (SEE DETAIL THIS SHEET), MOMENT CONNECTIONS NOT PART OF LATERAL SYSTEM AND COLLECTOR CONNECTIONS, USE SLIP CRITICAL TYPE SC BOLTS.
3. PROVIDE 2" HORIZ. AND 1-3/4" MINIMUM VERTICAL FROM PLATE EDGE AND BEAM WEB EDGE TO CENTERLINE OF BOLT (TYP. U.N.O). FOR W8 BEAMS, 1-1/2" MIN. VERTICAL FROM PLATE EDGE AND BEAM WEB EDGE TO CENTERLINE OF BOLT IS ALLOWED.
4. NUMBER OF BOLTS SHOWN IN THE SCHEDULE ARE TYPICAL. FOR BEAMS SUPPORTED BY A SHALLOWER BEAM, THE NUMBER OF BOLTS REQUIRED MAY BE REDUCED BY ONE (TWO BOLTS MINIMUM) U.N.O.
5. TYPICAL BEAM TO BEAM CONNECTION SHALL BE DESIGNED BY DETAILER ON A CASE BY CASE BASIS. CALCULATIONS SHALL BE SIGNED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
6. SEE NOTE 1 FOR TYPICAL BEAM TO BEAM CONNECTION DETAIL.



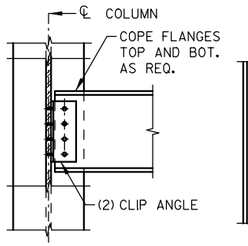
C6 BEAM

BEAM TO BEAM CONNECTION SCHEDULE (*)

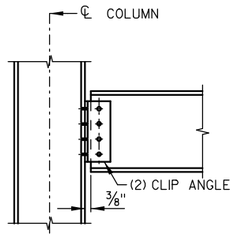
BEAM SIZE	A36 STEEL PLATE THICKNESS	NUMBER OF BOLTS	WELD SIZE "S"	MINIMUM PLATE HEIGHT
C8, W8, W10	3/8" U.N.O.	(2) 7/8" DIA.	5/16"	6"
C12, W12, W14	3/8"	(3) 7/8" DIA.	5/16"	9 1/2"
W16, W18	3/8"	(4) 7/8" DIA.	5/16"	12 1/2"
W21	3/8"	(5) 7/8" DIA.	5/16"	16"
W24	1/2"	(6) 7/8" DIA.	5/16"	19"
W27	1/2"	(7) 7/8" DIA.	5/16"	22"
W30	1/2"	(8) 7/8" DIA.	3/8"	25"
W33	1/2"	(9) 7/8" DIA.	3/8"	28"
W36	1/2"	(10) 7/8" DIA.	3/8"	28"

(*) - SCHEDULE FOR ESTIMATING PURPOSE ONLY

ALTERNATE BEAM CONNECTION DETAIL



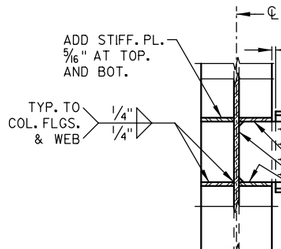
BEAM TO COLUMN WEB CONNECTION



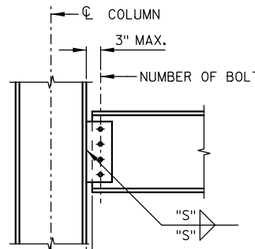
BEAM TO COLUMN FLANGE CONNECTION

NOTES:
1. STEEL FABRICATOR SHALL SUBMIT FOR REVIEW CALCULATIONS FOR BEAM TO COLUMN CONNECTIONS. CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
2. IN LIEU OF FIELD-BOLTED CONNECTIONS, CONTRACTOR MAY ELECT TO USE A FIELD WELDED CONNECTION FOR THE BEAM WEB TO SHEAR PLATE CONNECTION.

TYPICAL W BEAM TO W COLUMN CONNECTION DETAIL



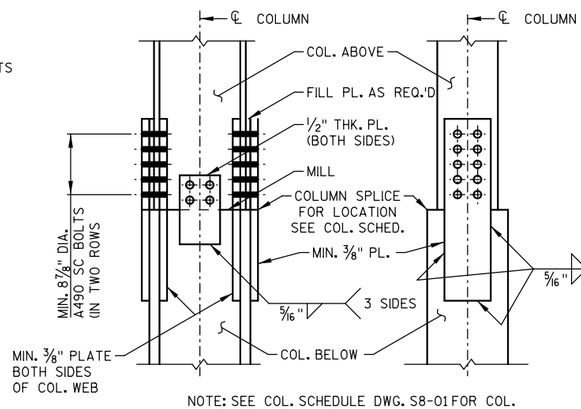
SINGLE PLATE BEAM TO COLUMN WEB CONNECTION



SINGLE PLATE BEAM TO COLUMN FLANGE CONNECTION

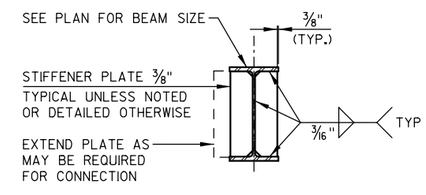
NOTES:
1. FOR CONNECTION SCHEDULE, SEE ALT. BEAM TO BEAM CONNECTION DETAILS.
2. SEE NOTE 1 FOR TYP. BEAM TO COL. CONNECTION.

ALTERNTE W BEAM TO W COLUMN CONNECTION DETAIL



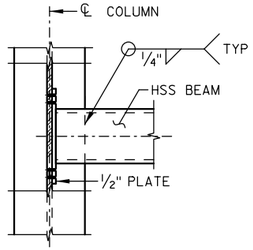
NOTE: SEE COL. SCHEDULE DWG. S8-01 FOR COL. SPLICE LOCATIONS

TYPICAL COLUMN SPLICE DETAIL

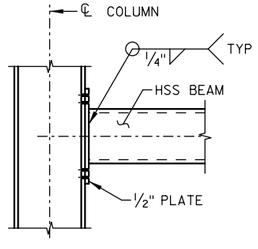


NOTE: USE LARGER PLATE AND WELD AS MAY BE REQUIRED BY BEAM CONNECTION SCHEDULE

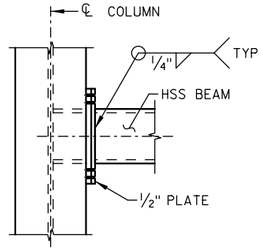
TYPICAL STIFFENER PLATES DETAIL



BEAM TO COLUMN WEB CONNECTION



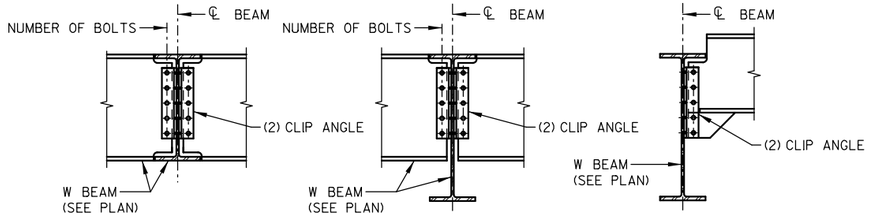
BEAM TO COLUMN FLANGE CONNECTION 1



BEAM TO COLUMN WEB CONNECTION 2

NOTE: SEE TYPICAL W BM. TO W COL. CONNECTION DETAIL.

TYPICAL HSS BEAM TO COLUMN CONNECTION DETAIL



NOTES:
1. STEEL FABRICATOR SHALL SUBMIT FOR REVIEW CALCULATIONS FOR BEAM TO COLUMN CONNECTIONS. CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WISCONSIN.
2. IN LIEU OF FIELD-BOLTED CONNECTIONS, CONTRACTOR MAY ELECT TO USE A FIELD WELDED CONNECTION FOR THE BEAM WEB TO SHEAR PLATE CONNECTION.

TYPICAL BEAM BOLTED CONNECTION DETAIL

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FRAMING CONNECTION DETAILS

SHEET S-500

PRE_143

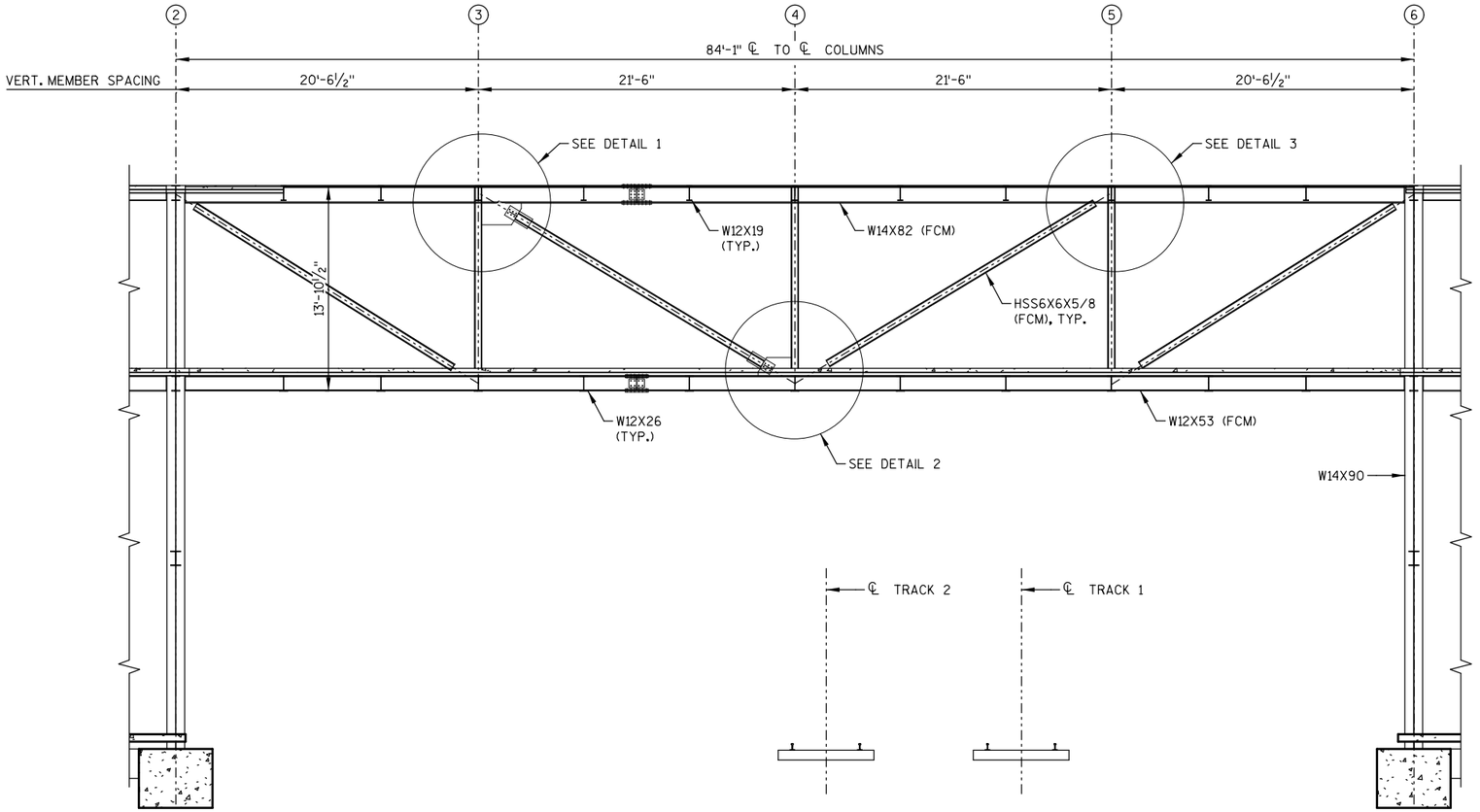
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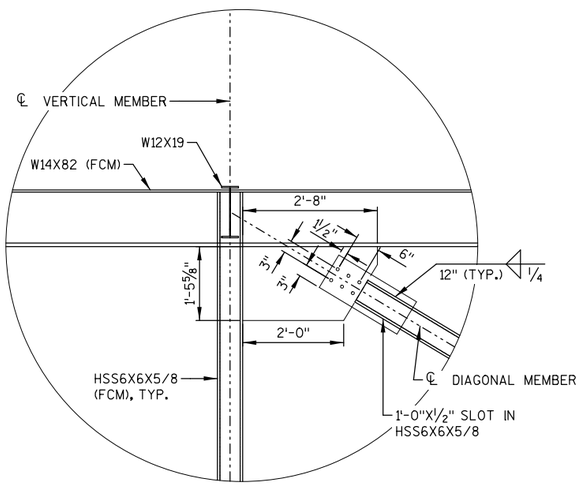
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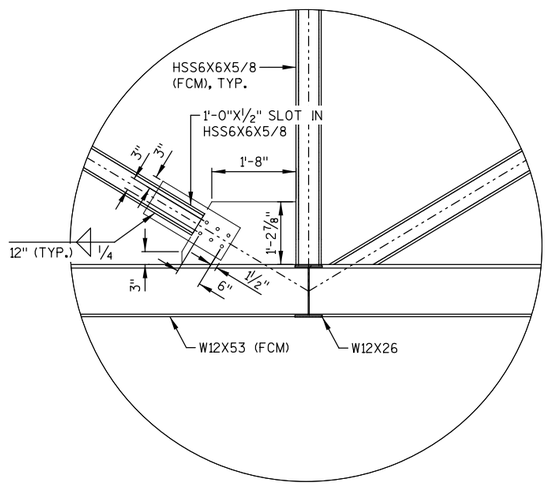
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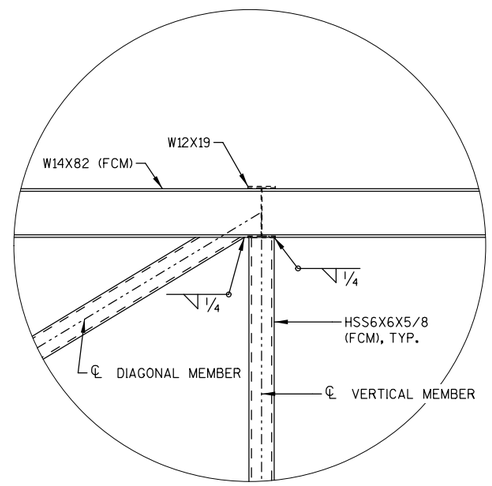
PEDESTRIAN BRIDGE ELEVATION



DETAIL 1



DETAIL 2



DETAIL 3

NOTES

IF OPTIONAL SPLICE IS UTILIZED, REFER TO DETAILS 1 & 2 FOR DIAGONAL TRUSS MEMBER CONNECTION. IF OPTIONAL SPLICE IS NOT UTILIZED, REFER TO DETAIL 3 FOR TYPICAL DIAGONAL TRUSS MEMBER CONNECTION.

FOR FOR TRUSS CONNECTION TO VERTICAL MEMBERS, SEE SHEET "FRAMING CONNECTION DETAILS".

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TRUSS FRAMING CONNECTION DETAILS

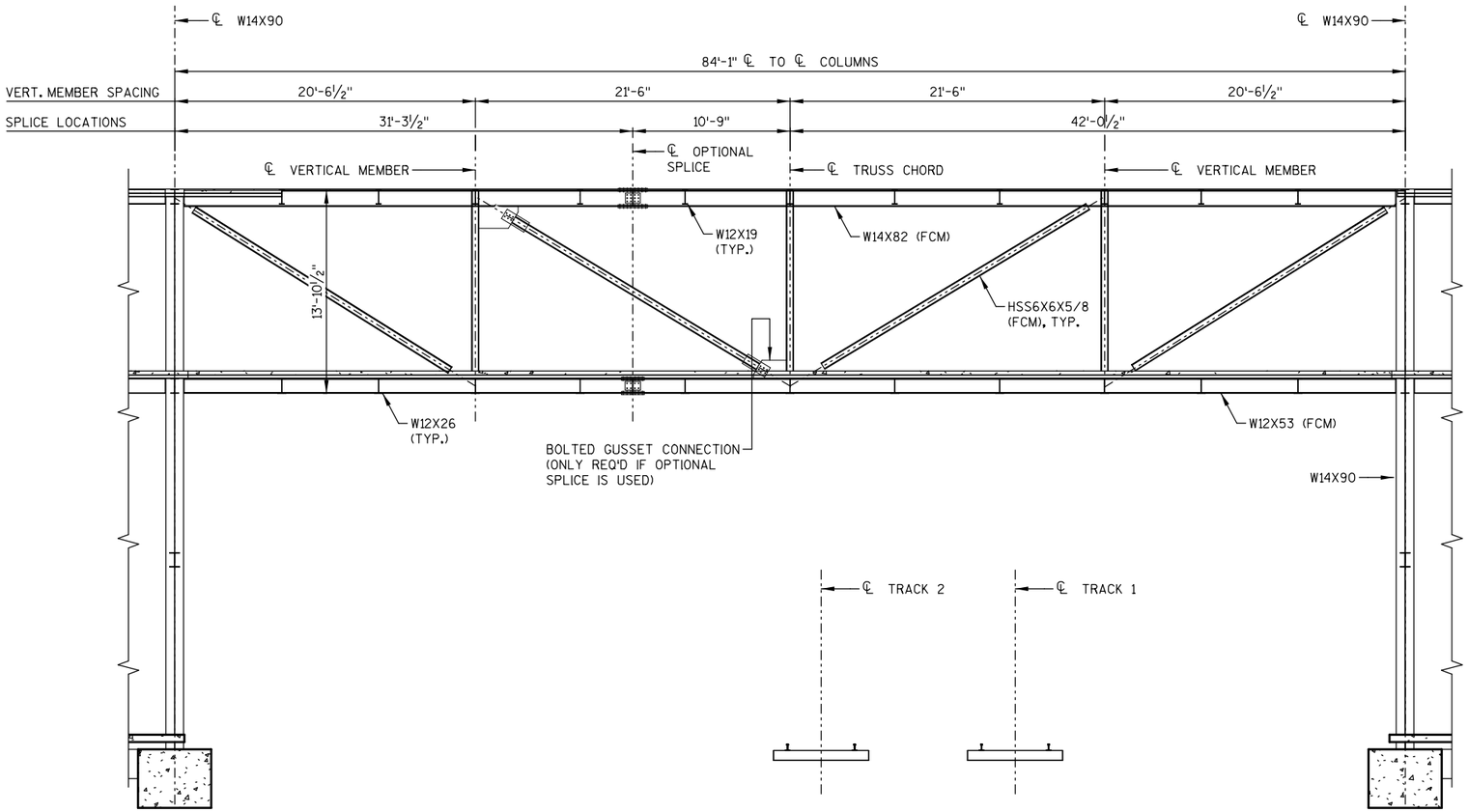
SHEET S-501
PRE_144

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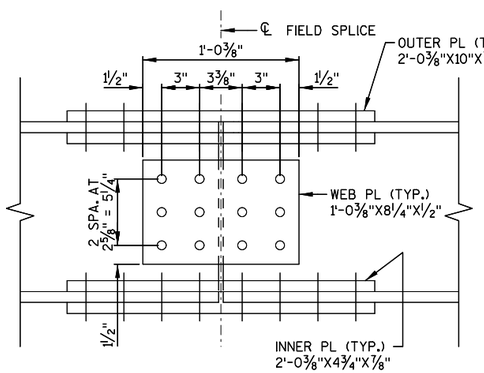
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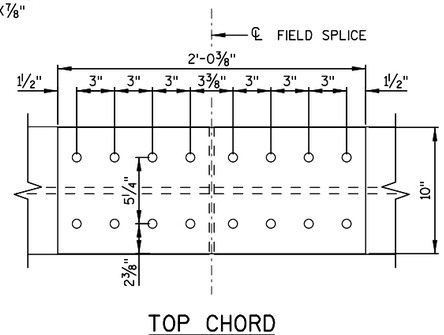
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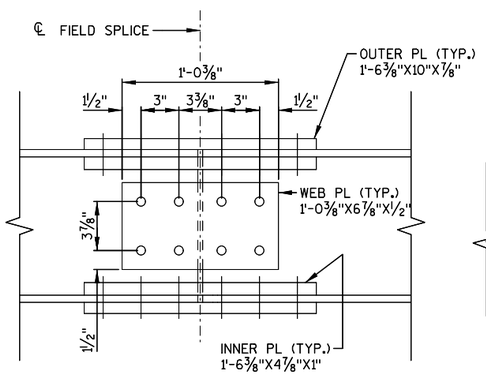
PEDESTRIAN BRIDGE ELEVATION



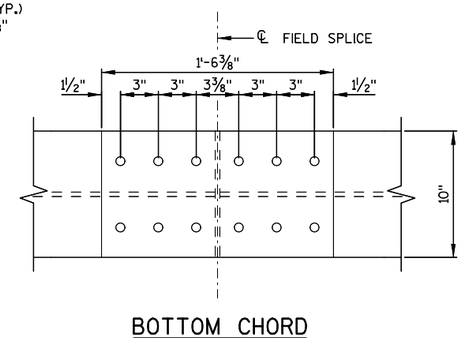
TOP CHORD SPLICE ELEVATION



TOP CHORD FLANGE SPLICE PLAN



BOTTOM CHORD SPLICE ELEVATION



BOTTOM CHORD FLANGE SPLICE PLAN

NOTES

SEE DETAILS 1 AND 2 ON SHEET "FRAMING CONNECTION DETAILS" FOR DIAGONAL MEMBER CONNECTION IF OPTIONAL SPLICE IS UTILIZED.

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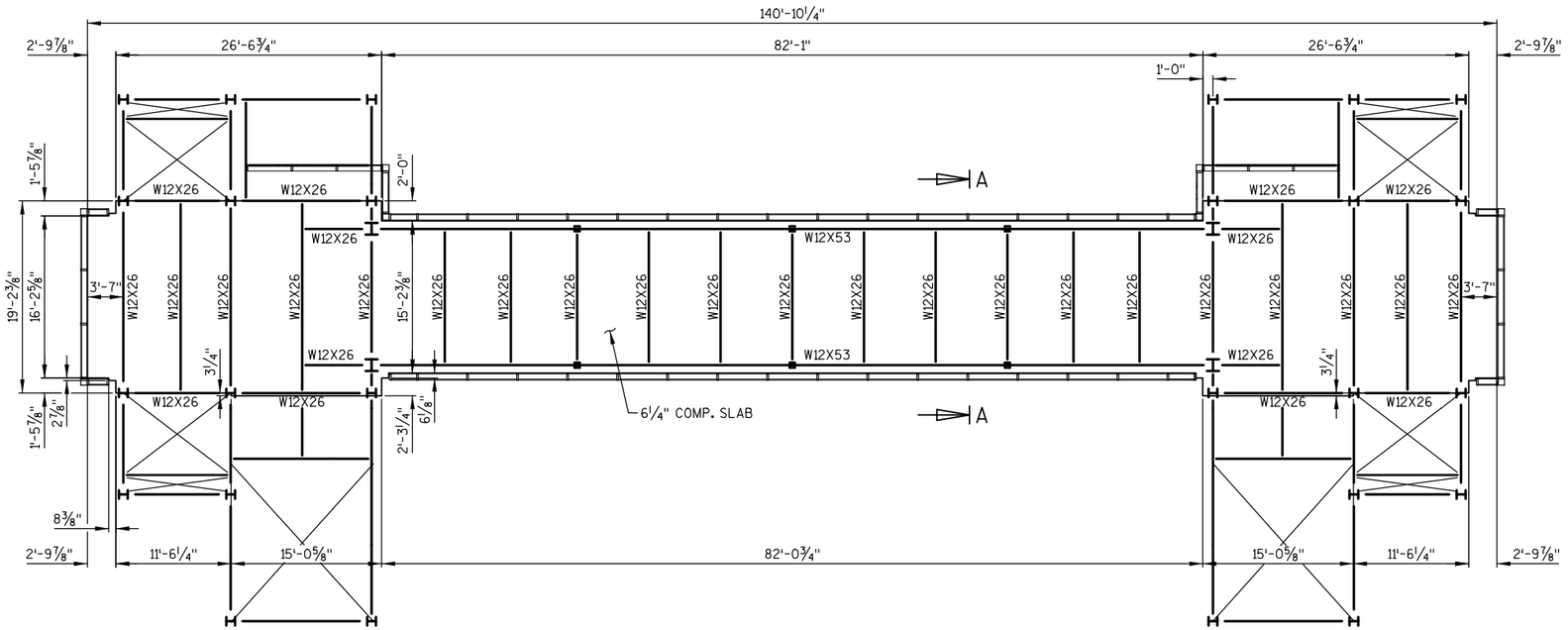
TRUSS SPLICE DETAILS

SHEET S-502
PRE_145

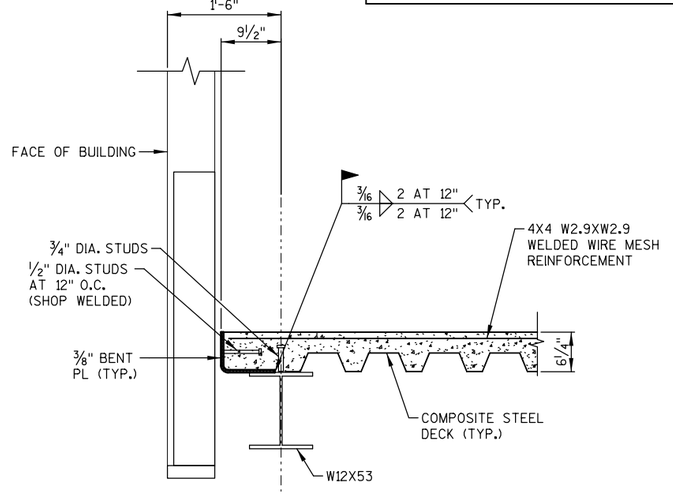
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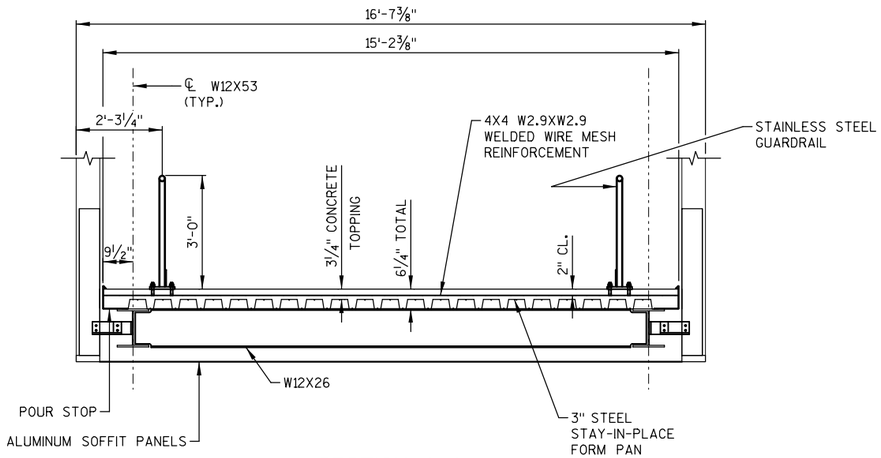


FLOOR SLAB PLAN

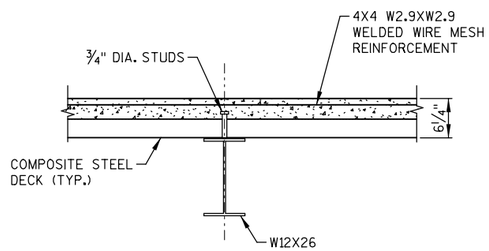


TYPICAL EXTERIOR EDGE OF COMPOSITE SLAB

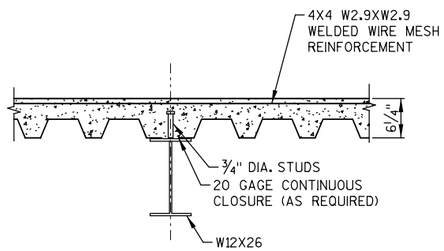
NOTE: DECK ORIENTATION MAY VARY.



SECTION A-A



TYPICAL COMPOSITE STEEL DETAIL



TYPICAL ADDITIONAL SLAB REINFORCEMENT

(DECK SPANNING PARALLEL TO BEAM - SECTION)

NOTE:
DECK RIB VALLEY TO BE CENTERED OVER BEAM WHERE POSSIBLE, OR DECK MUST SPLIT FULL LENGTH OF BEAM TO PROVIDE CONCRETE HAUNCH MINIMUM WIDTH EQUAL TO AVERAGE RIB WIDTH.

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FLOOR SLAB PLAN & DETAILS

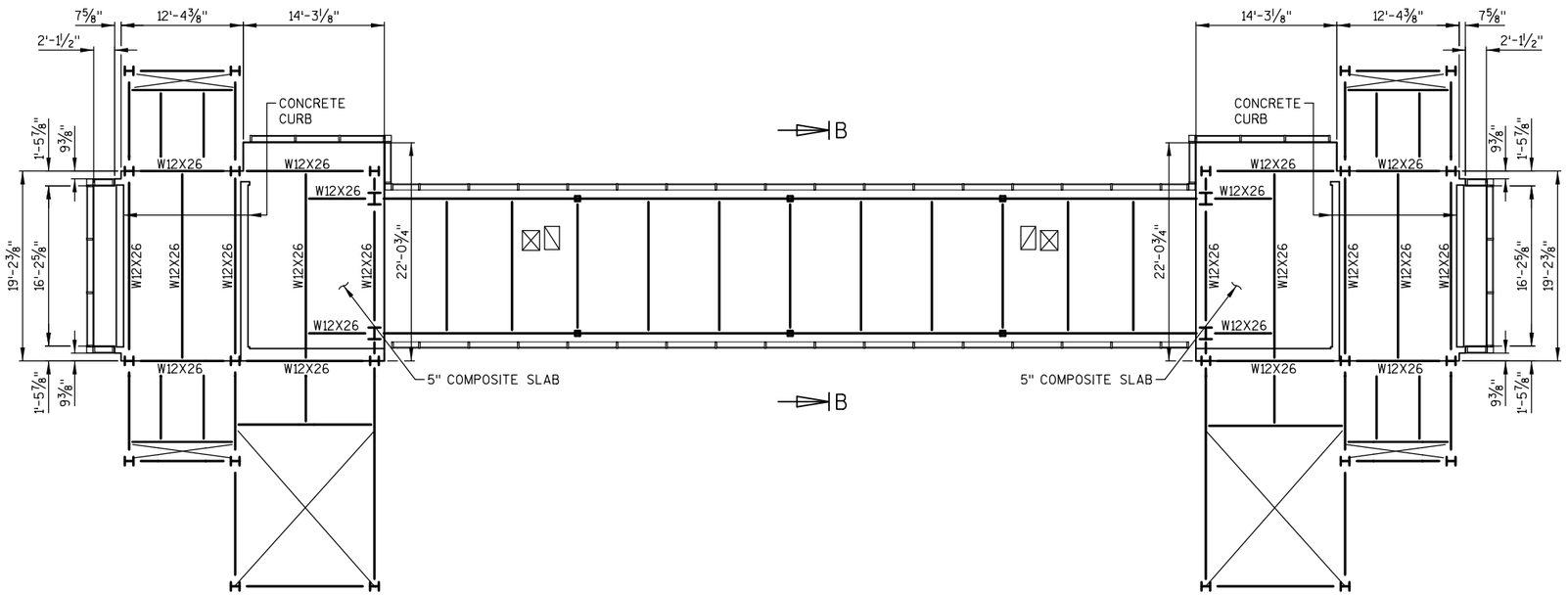
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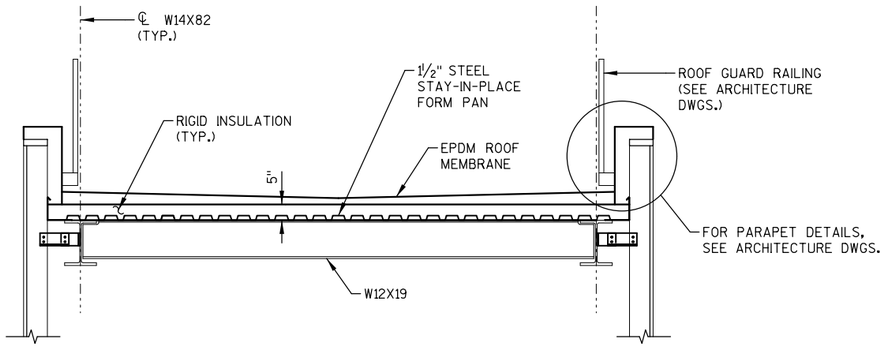
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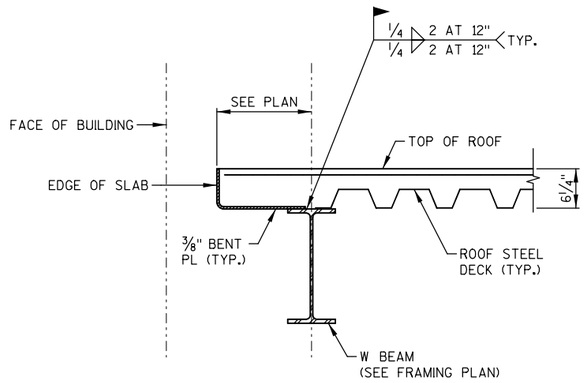


ROOF SLAB PLAN



SECTION B-B

(SEE ARCHITECTURE PLANS FOR MORE DETAILS)



TYPICAL EXTERIOR EDGE OF ROOF DECK

NOTE: DECK ORIENTATION MAY VARY.

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DEPARTMENT OF TRANSPORTATION

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ROOF SLAB PLAN & DETAILS

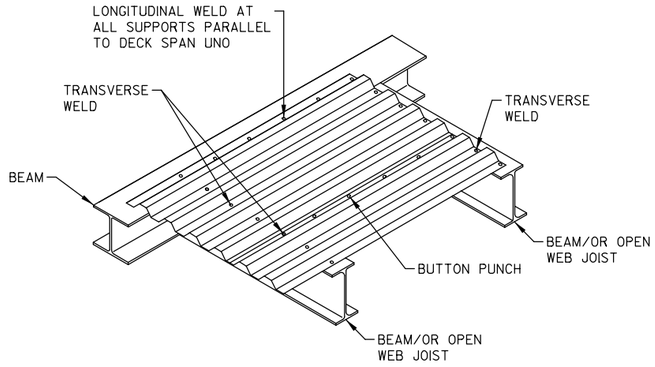
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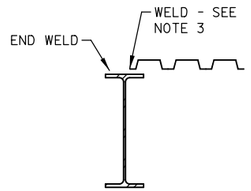
METHOD OF CONNECTIONS

ROOF DECK

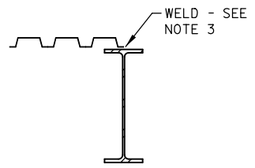
1. MECHANICAL FASTENERS AT EACH TRANSVERSE SUPPORT PER PATTERN SHOW ON 3/SO-04.
2. LONGITUDINAL ATTACHMENTS USING MECHANICAL FASTENERS AT 6" O.C. AT ALL LONGITUDINAL SUPPORTS.
3. USE HILTI SLC OR APPROVED EQUAL AT SPACING SHOWN ON 3/SO-04 AT ALL SEAMS UNO.
4. ALL MECHANICAL FASTENERS SHALL BE HILTI X-ENP-19 L15 OR X-HSN-24 OR APPROVED EQUAL. FOR MORE INFO. SEE NOTES ON 3/SO-04.
5. ATTACH DECK TO ALL TRANSVERSE AND LONGITUDINAL SUPPORT BEAMS OR OPEN WEB JOIST.

FLOOR DECK

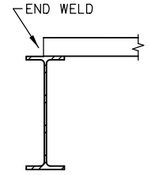
1. 4 PUDDLE WELDS AT EACH TRANSVERSE SUPPORT UNO.
2. LONGITUDINAL WELDS AT 1'-0" O.C. AT ALL LONGITUDINAL SUPPORTS.
3. BUTTON PUNCH AT 36" O.C. AT ALL SEAMS U.N.O.
4. ALL PUDDLE WELDS SHALL BE ½" DIA. EFFECTIVE.
5. WELD DECK TO ALL TRANSVERSE AND LONGITUDINAL SUPPORT BEAMS.



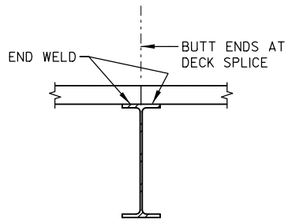
SPLICE AT SPAN DIRECTION SPAN



PARALLEL TO SUPPORT TYPICAL DECK WELDING

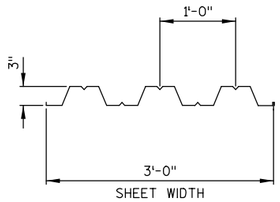


EDGE BEAMS



INTERIOR BEAMS

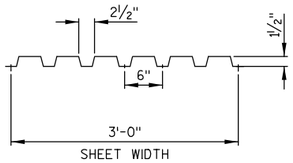
PERPENDICULAR TO SUPPORTS



STEEL UNIT ONLY
COMPOSITE
LOK-FLOOR DECK

3"X18 GAGE
2.8 PSF MIN.

+I = 1.254 IN⁴
-I = 1.252 IN⁴
+S = 0.777 IN³
-S = 0.797 IN³
T = 0.0474 IN

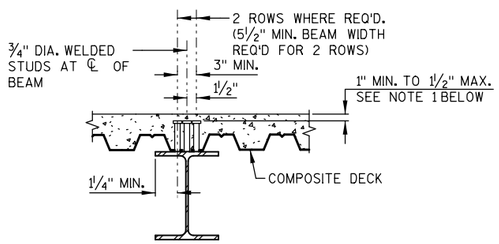


STEEL UNIT ONLY
TYPE B ROOF DECK

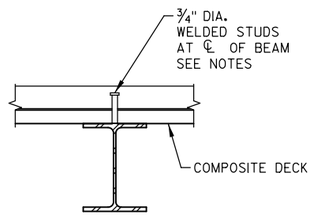
1½"X20 GAGE
2 PSF MIN.

+I = 0.201 IN⁴
-I = 0.222 IN⁴
+S = 0.234 IN³
-S = 0.247 IN³
T = 0.0358 IN

SECTION PROPERTIES
(PER FOOT WIDTH)

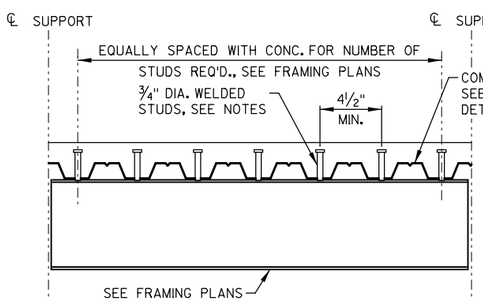


DECK PARALLEL TO BEAM
TYPICAL SECTION

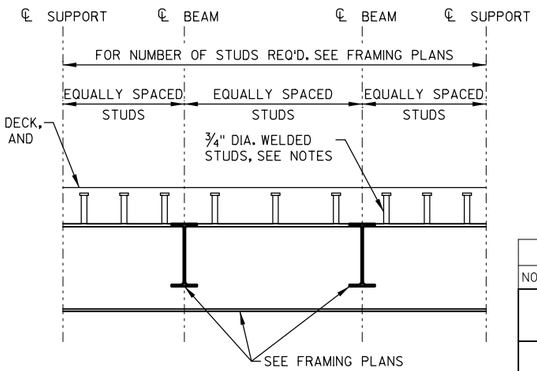


DECK PERPENDICULAR TO BEAM
TYPICAL SECTION

NOTES:
1. ALL WELDED STUDS SHALL BE ¾" DIA. HEADED STUDS. STUDS SHALL EXTEND 1½" MINIMUM ABOVE TOP OF STEEL DECK.
2. WHERE THE NUMBER OF STUDS EXCEEDS THE NUMBER OF DECK FLUTES, PROVIDE MIN. ONE STUD PER FLUTE & DOUBLE STUDS AT EACH FLUTE STARTING AT EACH SUPPORT WORKING TOWARD CENTER OF THE BEAM UNTIL THE REQ'D NUMBER OF STUDS ARE PROVIDED. PROVIDE AN EQUAL NUMBER OF STUDS AT EACH SIDE OF BEAM SPAN CENTER LINE.
3. STUDS WELDED THROUGH STEEL DECKING MAY BE SUBSTITUTED FOR A PUDDLE WELD, TYPICAL.
4. PROVIDE STUDS AT 12" O.C. MIN. AT ALL FRAMED BEAMS WHERE NO. OF STUDS IS NOT INDICATED.
5. MAINTAIN 1" CLEARANCE AROUND ALL STUDS.



BEAM ELEVATION



GIRDER ELEVATION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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DECK DETAILS
(1 OF 2)

SHEET S-505
PRE_148

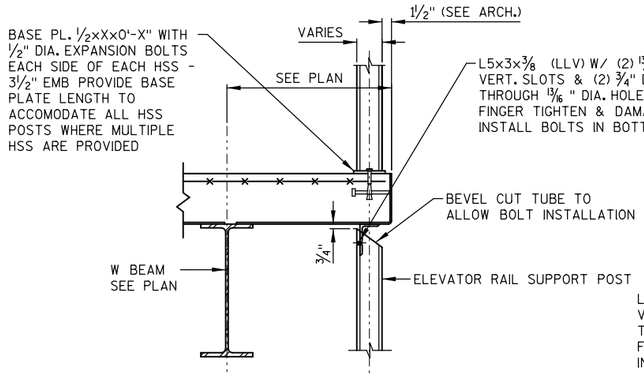
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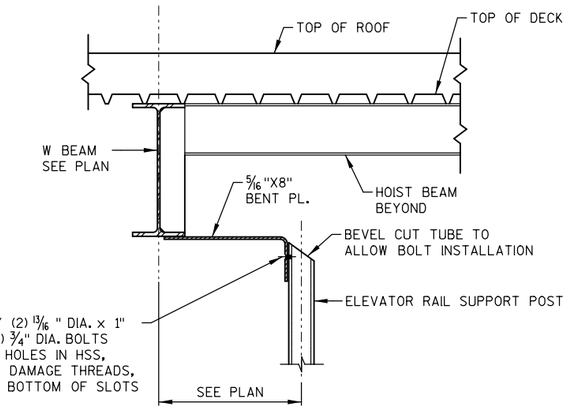
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STATE PROJECT NUMBER

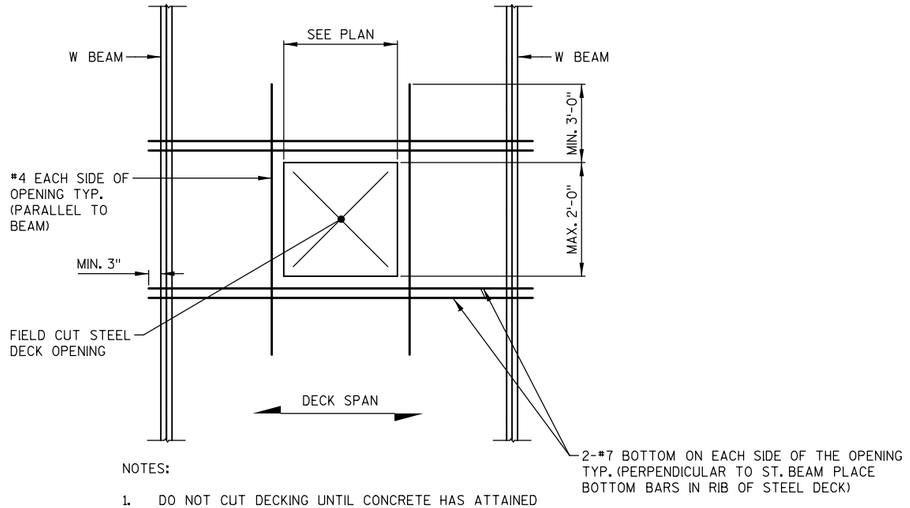
1000-57-05



POST TO FLOOR SLAB CONNECTION



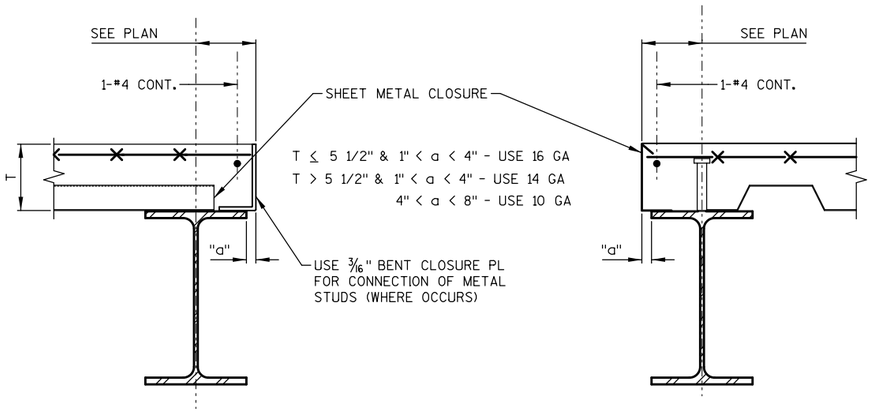
POST TO ROOF SLAB CONNECTION



NOTES:

1. DO NOT CUT DECKING UNTIL CONCRETE HAS ATTAINED 75% OF DESIGN STRENGTH.
2. FOR LARGER OPENINGS SEE FRAMING PLANS FOR REQ'D OPENING FRAMING

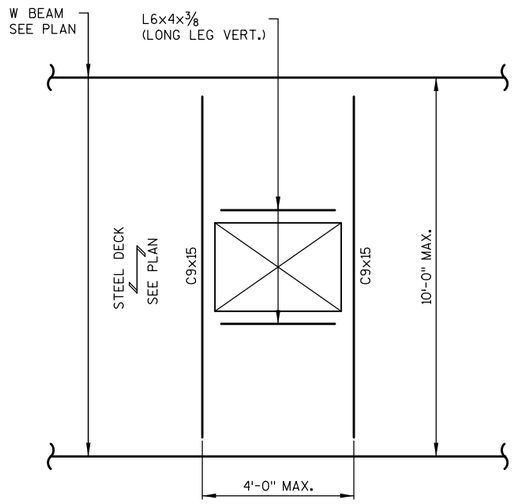
TYP. REINFORCEMENT IN COMPOSITE SLAB OPENING



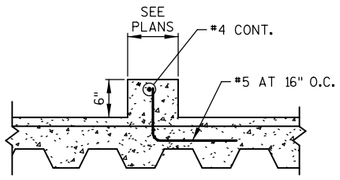
DECK PERPENDICULAR

DECK PARALLEL

EDGE OF DECK AT INTERIOR OPENINGS



ROOF OPENINGS IN STEEL DECK



TYPICAL DETAIL OF CONCRETE CURB ON COMPOSITE SLAB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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DECK DETAILS (2 OF 2)

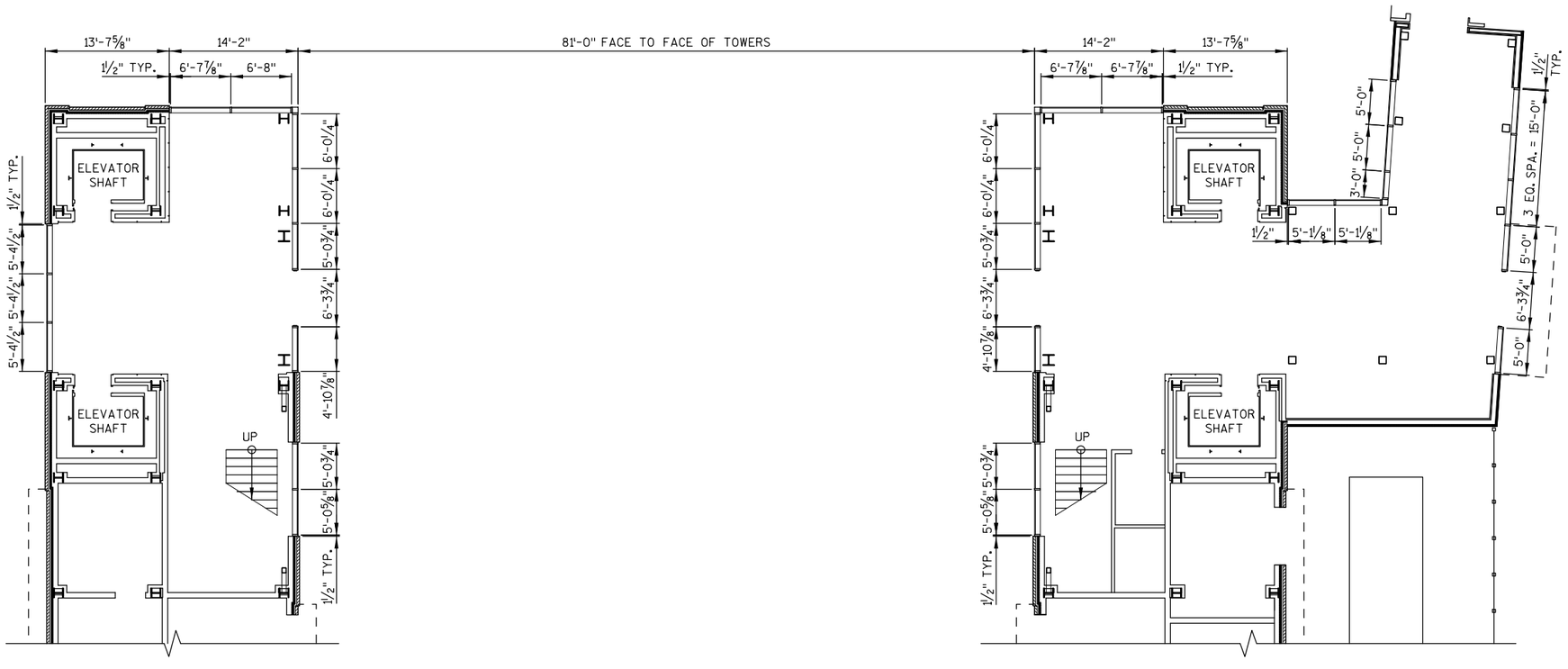
SHEET S-506
PRE_149

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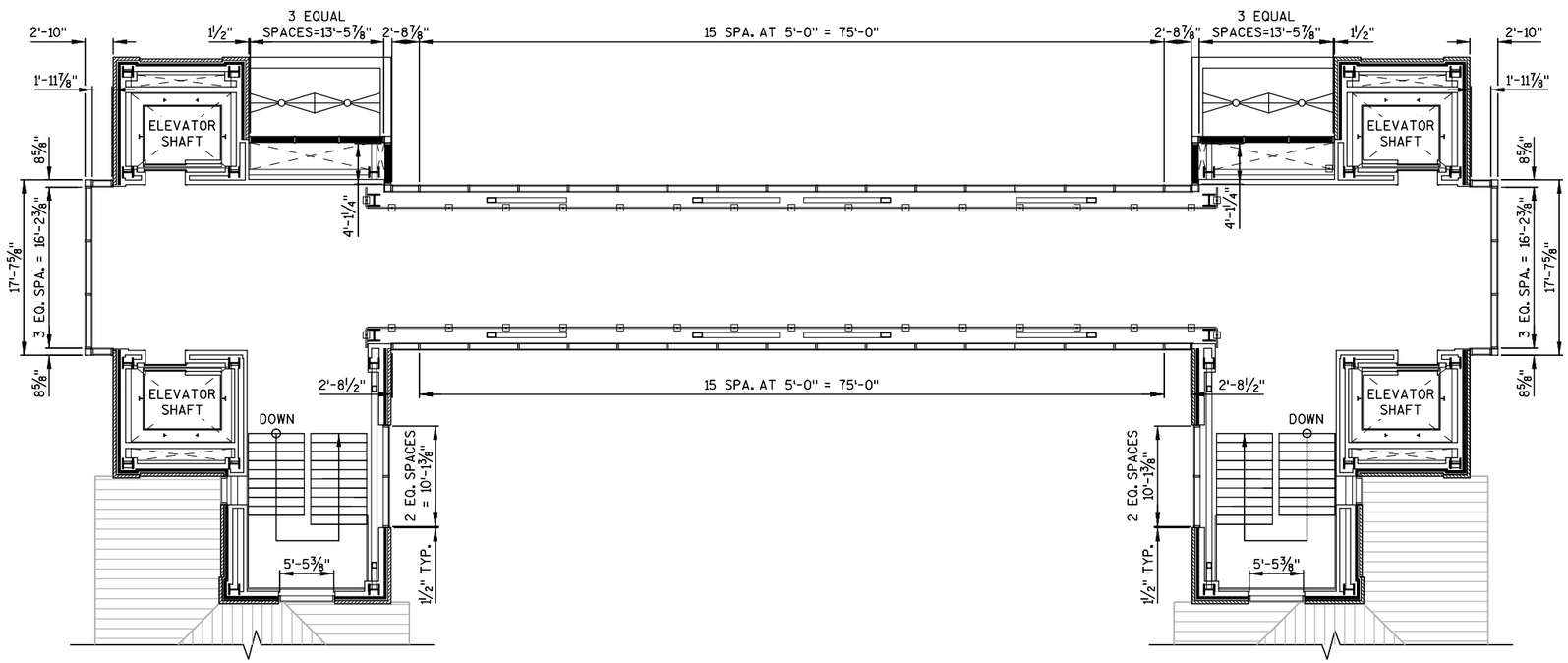
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BATCH PRINT SHEET 3 OF 12

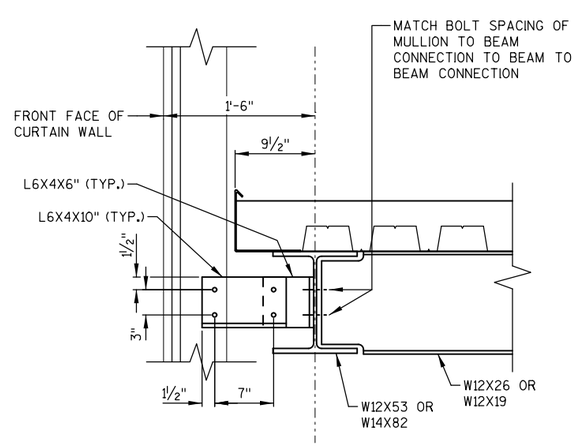
STATE PROJECT NUMBER
1000-57-05



PLATFORM LEVEL



PEDESTRIAN BRIDGE LEVEL



CURTAIN WALL ANCHOR SYSTEM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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GLASS CURTAINWALL DETAILS

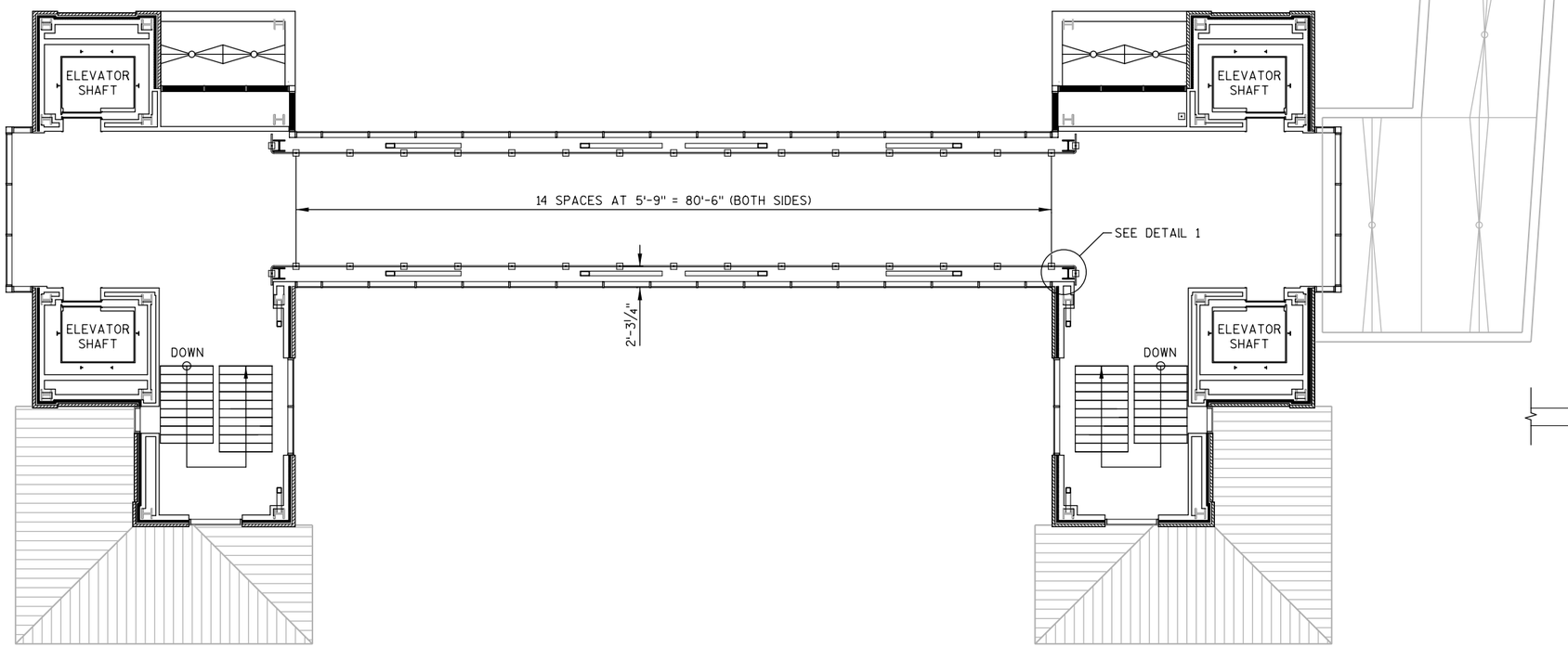
SHEET S-507
PRE_150

8

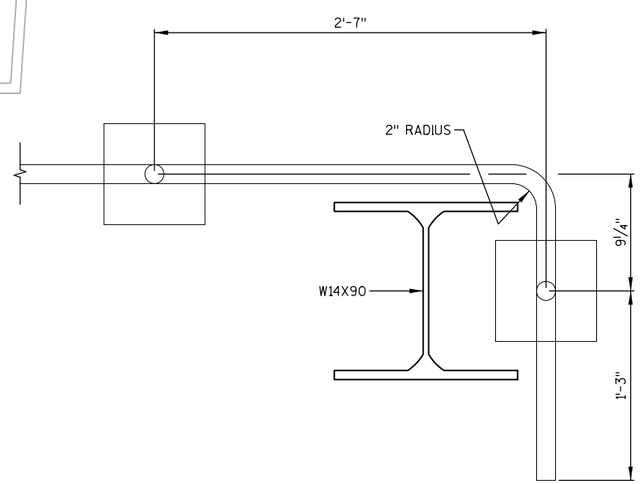
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STATE PROJECT NUMBER

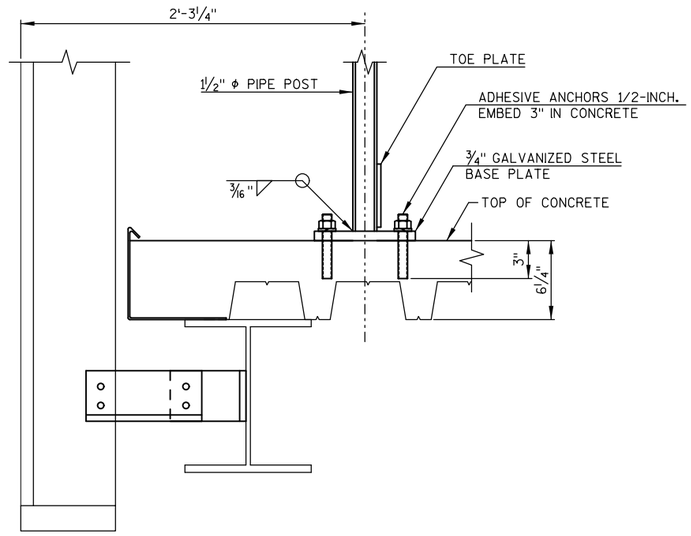
1000-57-05



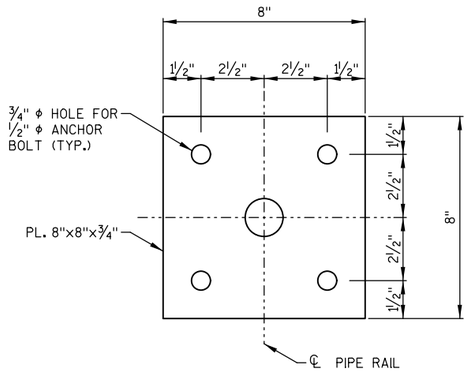
PIPE RAILING PLAN AT BRIDGE LEVEL



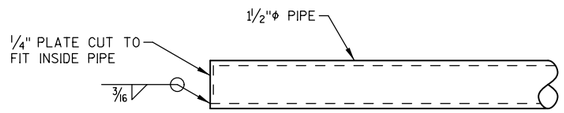
DETAIL 1



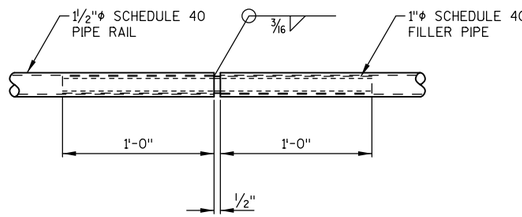
TYPICAL PIPE HANDRAIL POST ATTACHMENT



PIPE HANDRAIL BASE PLATE DETAIL



TYPICAL END CAP DETAIL



PIPE RAIL SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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PIPE RAILING DETAILS

SHEET S-508
PRE_151

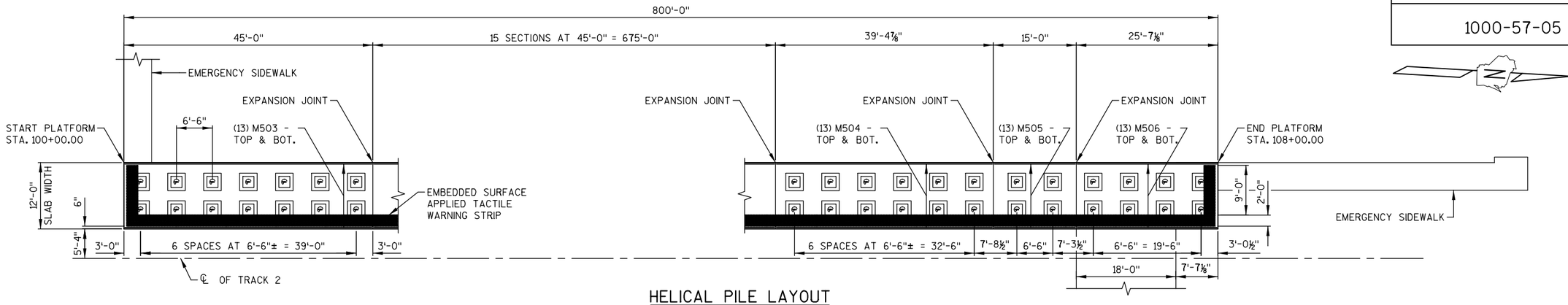
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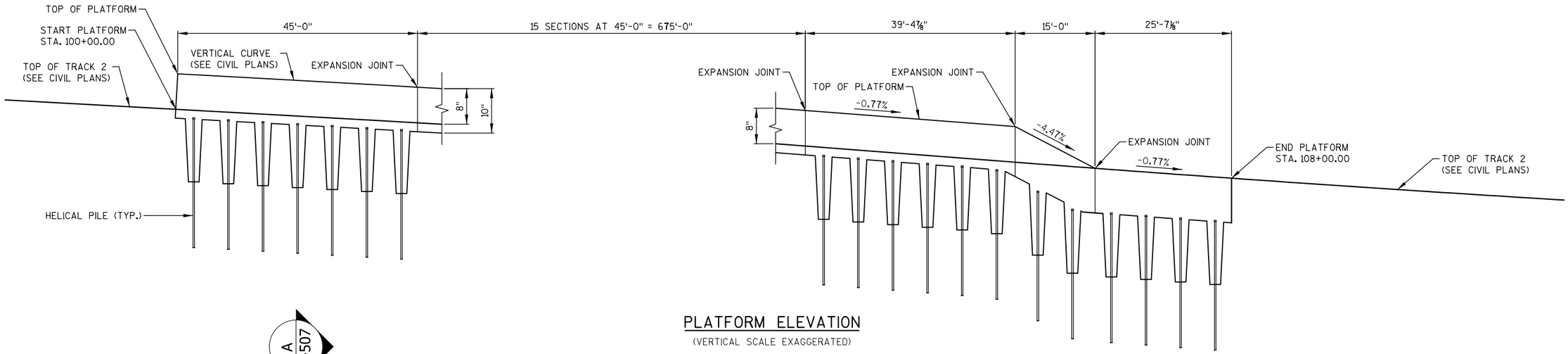
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STATE PROJECT NUMBER
1000-57-05

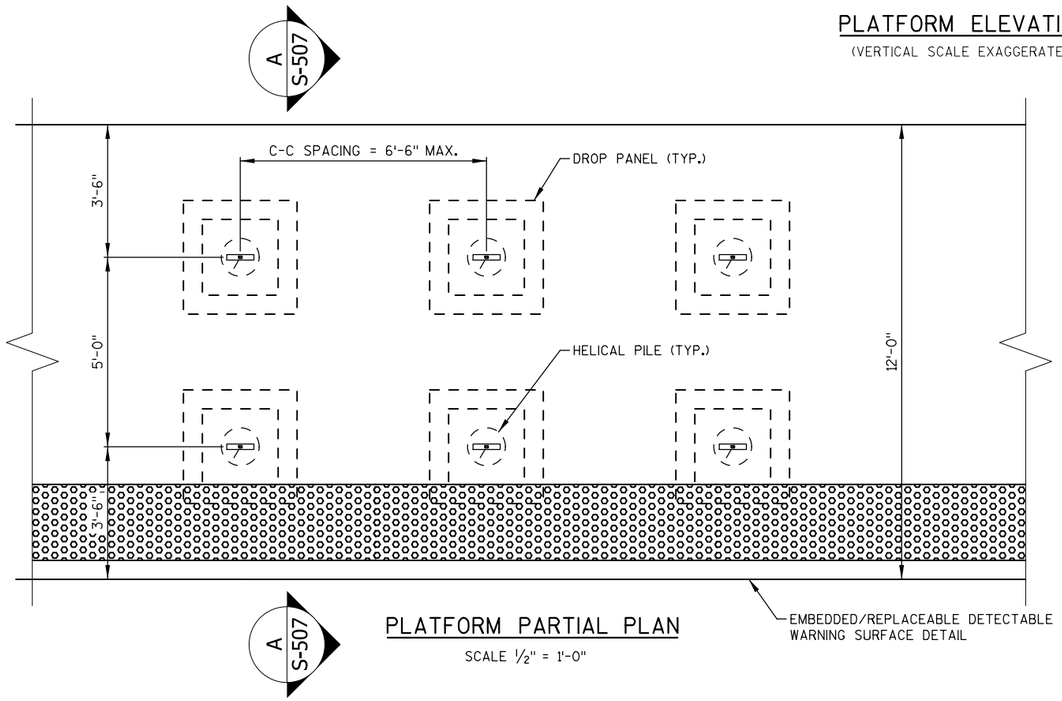


HELICAL PILE LAYOUT



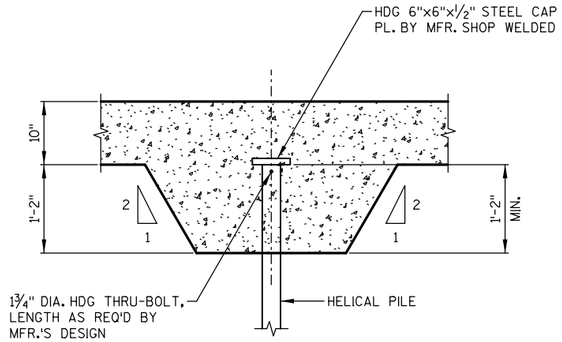
PLATFORM ELEVATION

(VERTICAL SCALE EXAGGERATED)



PLATFORM PARTIAL PLAN

SCALE ½" = 1'-0"



TYPICAL HELICAL PILE DETAIL

REINFORCEMENT NOT SHOWN FOR CLARITY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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PLATFORM PILE LAYOUT

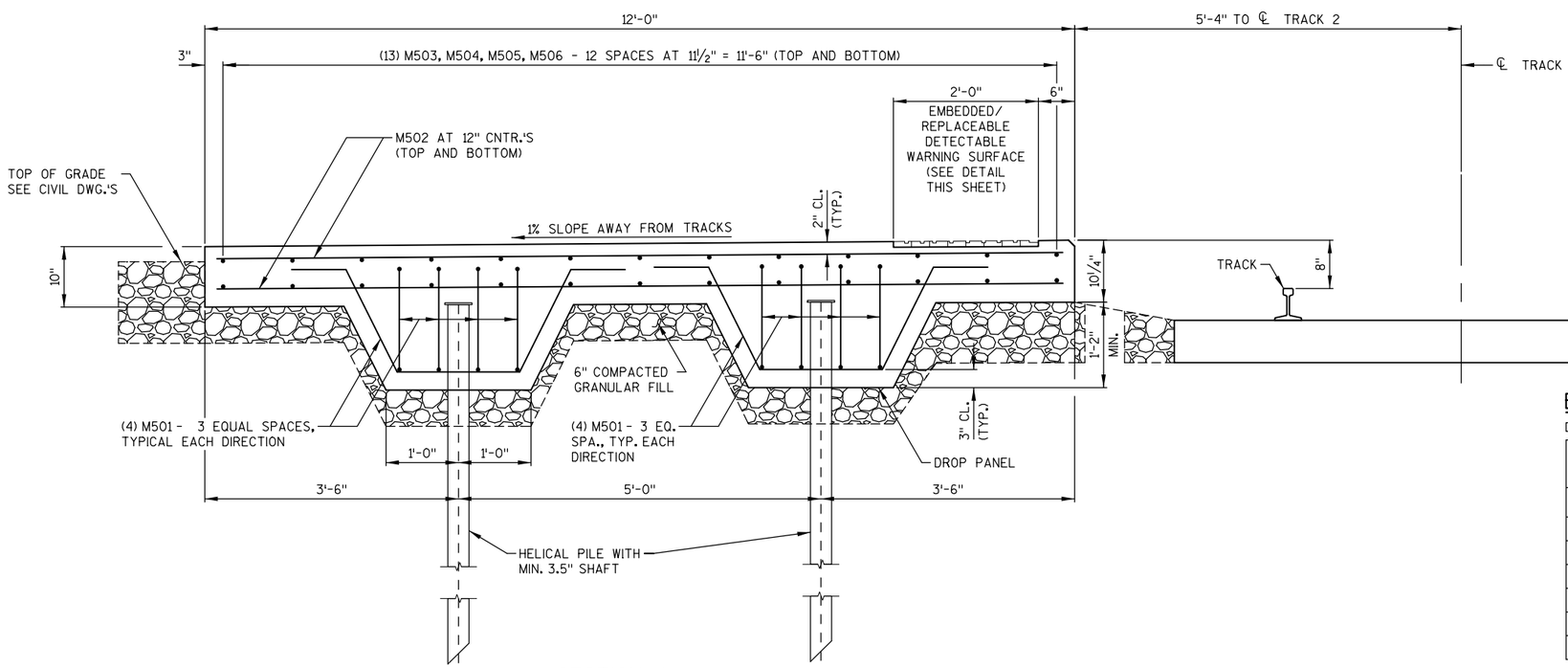
SHEET S-509
PRE_152

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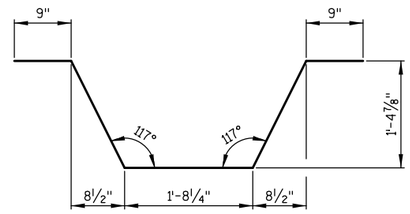
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BATCH PRINT SHEET 6 OF 12

STATE PROJECT NUMBER
1000-57-05



SECTION A

SCALE 1" = 1'-0"

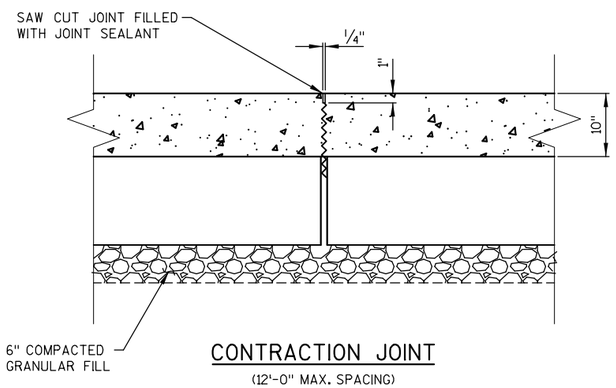


M501

BILL OF BARS

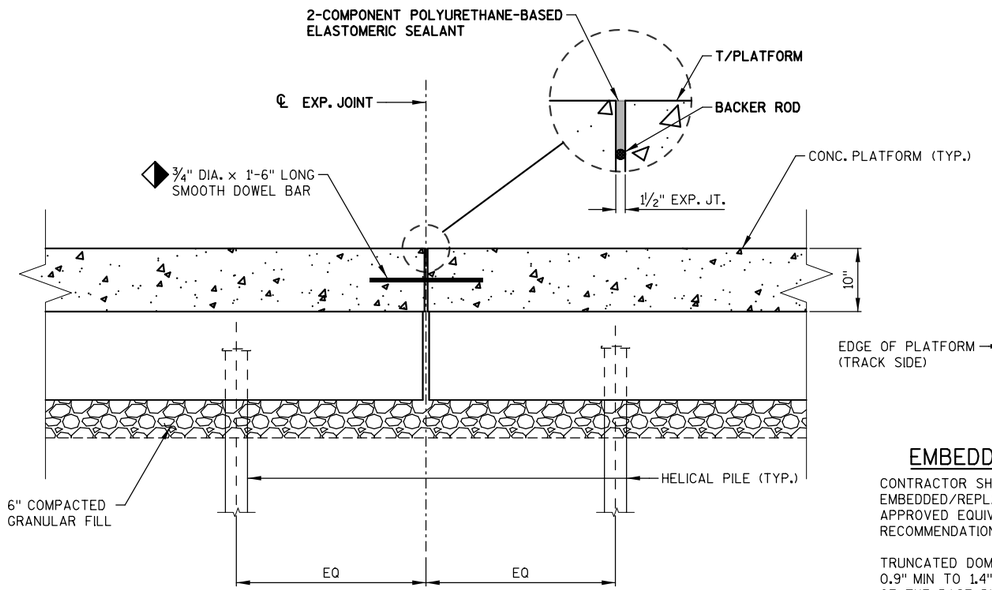
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	LOCATION	
COATED BARS					TOTAL WEIGHT = 37,790 LBS
M501	1984	6'-0"	X	SLAB DROP PANEL	VERT.
M502	416	11'-8"		SLAB - TOP AND BOTTOM	TRANS.
M503	390	44'-8"		SLAB - TOP AND BOTTOM	LONGIT.
M504	26	39'-0"		SLAB - TOP AND BOTTOM	LONGIT.
M505	26	14'-8"		SLAB - TOP AND BOTTOM	LONGIT.
M506	26	25'-3"		SLAB - TOP AND BOTTOM	LONGIT.



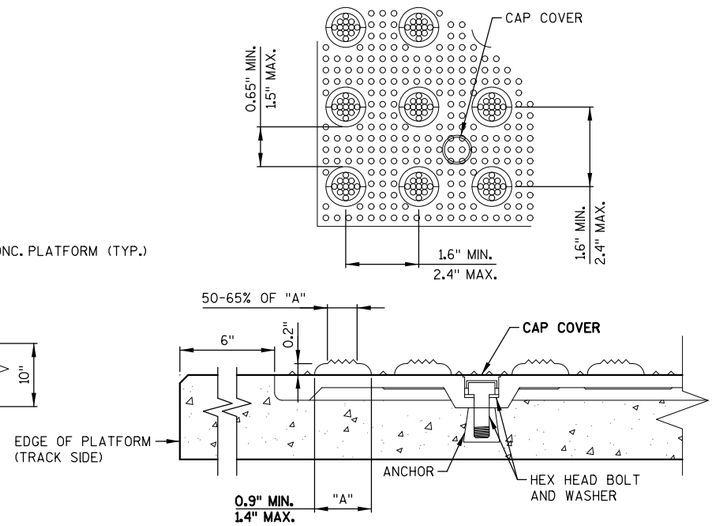
CONTRACTION JOINT

(12'-0" MAX. SPACING)



EXPANSION JOINT

◆ ¾" DIA. SMOOTH DOWEL BARS, 1'-6" LONG, AT EXPANSION JOINTS. EMBED 9". USE APPROVED DEBONDER ON ONE HALF OF BAR LENGTH. COST INCLUDED IN "CONCRETE MASONRY BRIDGES."



EMBEDDED/REPLACEABLE DETECTABLE WARNING SURFACE DETAIL

CONTRACTOR SHALL USE ADA SOLUTIONS EMBEDDED/REPLACEABLE DETECTABLE WARNING OR APPROVED EQUIVALENT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9" MIN TO 1.4" MAX, WITH A TOP DIAMETER OF 50-65% OF THE BASE DIAMETER, A HEIGHT OF 0.2", AND 1.6"MIN/2.4" MAX. CENTER TO CENTER SPACING.

DETECTABLE WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES; COLOR TO BE APPROVED BY AMTRAK.

FOR MORE DETAILS, SEE SHEET "PLATFORM DETAIL SHEET" IN SECTION 2.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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PLATFORM DETAILS

SHEET S-510
PRE_153

8

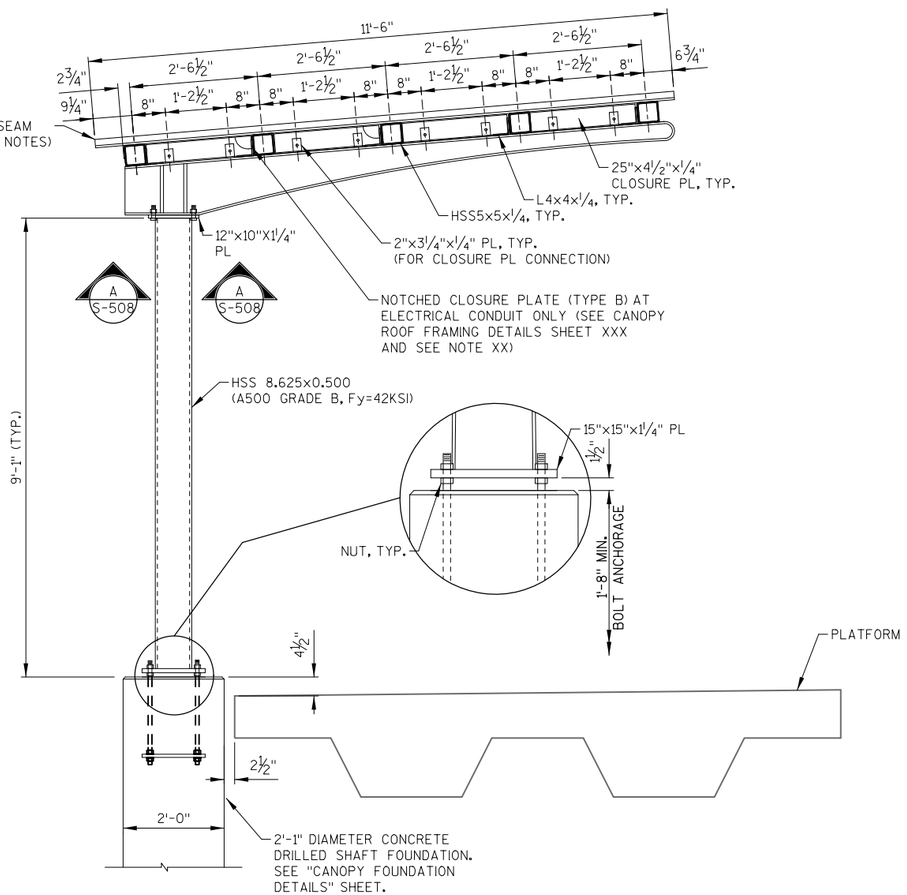
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STATE PROJECT NUMBER

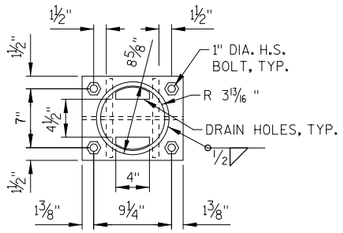
1000-57-05

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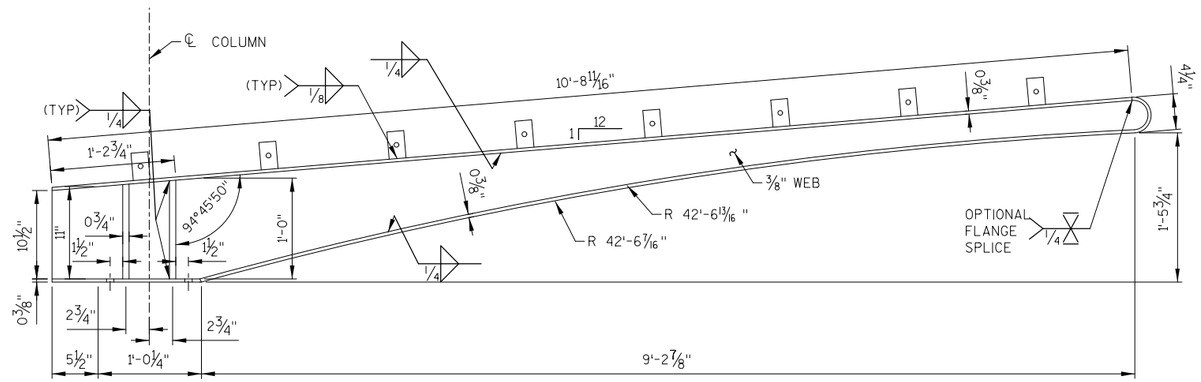
1. ROOF TO BE 20 GAGE, 2" HIGH GALVANIZED STANDING SEAM TYPE WITH 18" WIDE PANELS. COLOR TO BE XXX.
2. CONCEALED ANCHOR CLIPS FOR STANDING SEAM ROOF TO BE GALVANIZED STEEL WITH A MINIMUM .0598" THICKNESS.
3. FASTEN ANCHOR CLIPS TO STEEL PURLINS USING #14 DIAMETER SELF TAPPING GALVANIZED SCREWS AT EACH HSS PURLIN AND PANEL SEAM.
4. PLATES TO BE WELDED TO TOP OF FLANGE OF CANTILEVER ARM SO THAT THEY ARE PARALLEL TO THE TAPERED EDGE OF THE FLANGE.
5. ATTACHMENT PLATES AT NON-TAPERED SECTION OF CANTILEVER ARM TOP FLANGE TO BE PLACED SO THAT THEY ARE PARALLEL TO THE NON-TAPERED EDGE OF THE TOP FLANGE. ADJACENT ATTACHMENT PLATES TO BE PLACED PARALLEL WITH THESE PLATES TO FACILITATE PROPER FIT OF CLOSURE PLATES.
6. SEAL ALL OPENINGS BETWEEN CONDUIT AND CLOSURE PLATE TO PREVENT BIRD ACCESS.
7. ALL STRUCTURAL STEEL TO BE SHOP PAINTED. COLOR TO BE XXX.
8. FOR ANCHOR PLATE DETAILS, SEE DETAILS 1 & 2 ON SHEET "CANOPY FOUNDATION DETAILS".



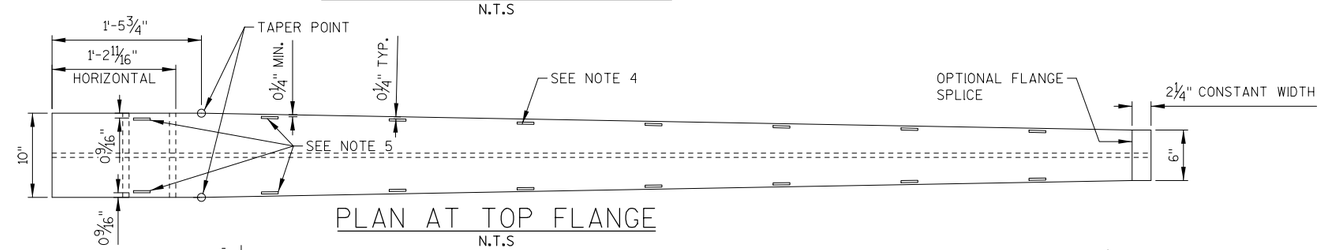
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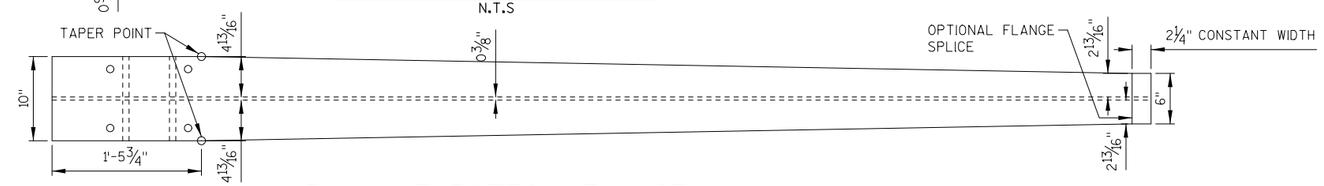
SECTION A-A
N.T.S



CANTILEVER ARM DETAIL
N.T.S



PLAN AT TOP FLANGE
N.T.S



PLAN AT BOTTOM FLANGE
N.T.S

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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PLATFORM CANOPY STEEL DETAILS (1 OF 2)

SHEET S-511
PRE_154

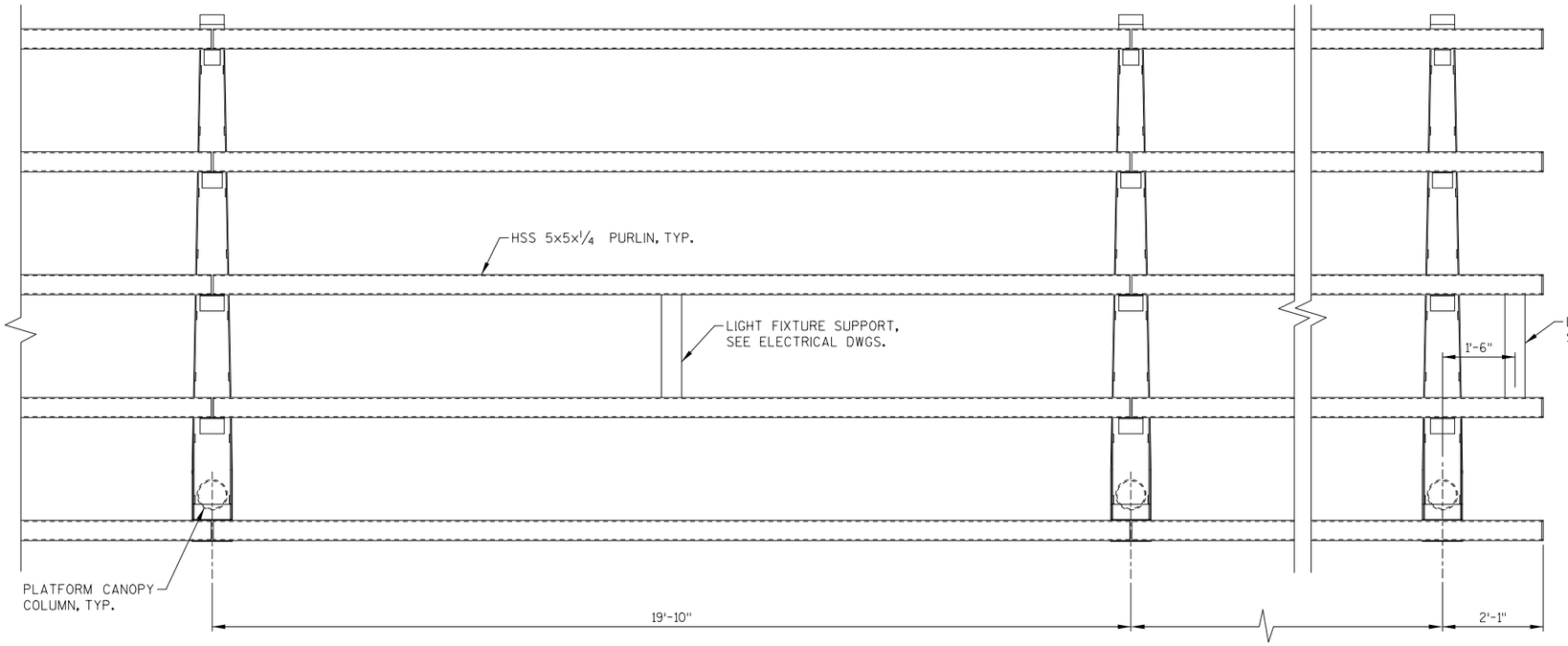
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STATE PROJECT NUMBER
1000-57-05

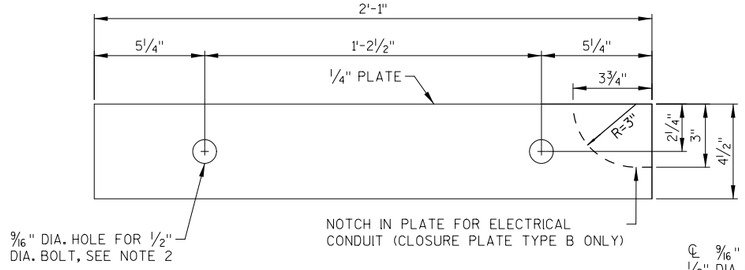


NOTES:

1. PLATFORM NOT SHOWN FOR CLARITY.
2. TACK WELD NUT FOR ½" DIAMETER BOLT TO INSIDE FACE OF ATTACHMENT PLATE.

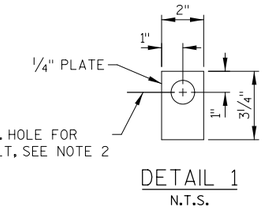
TYPICAL BAY

(ROOFING NOT SHOWN)
SCALE: 1" = 3'-0"



DETAIL 2

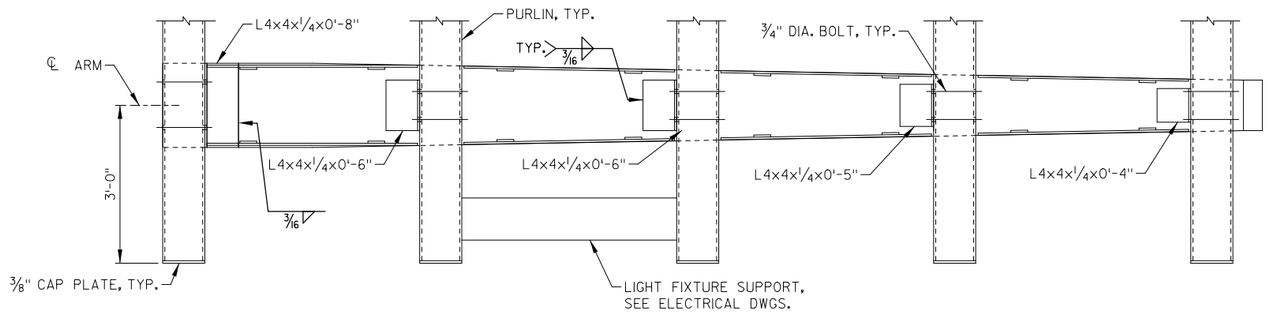
(CLOSURE PLATE TYPE A AND B)
N.T.S.



DETAIL 1

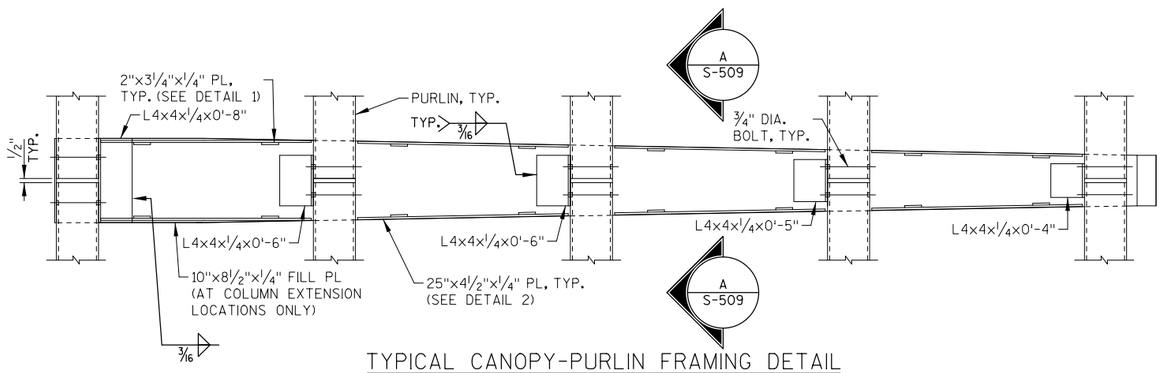
N.T.S.

ROOF OVERHANG



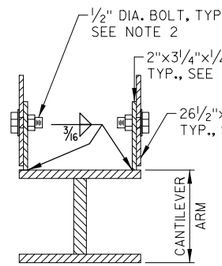
TYPICAL PLAN AT CANOPY OVERHANG

N.T.S.



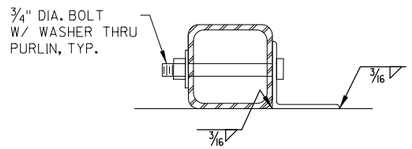
TYPICAL CANOPY-PURLIN FRAMING DETAIL

N.T.S.



SECTION A-A

N.T.S.



TYP. PURLIN CONNECTION DETAIL

N.T.S.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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PLATFORM CANOPY STEEL DETAILS (2 OF 2)

SHEET S-512
PRE_155

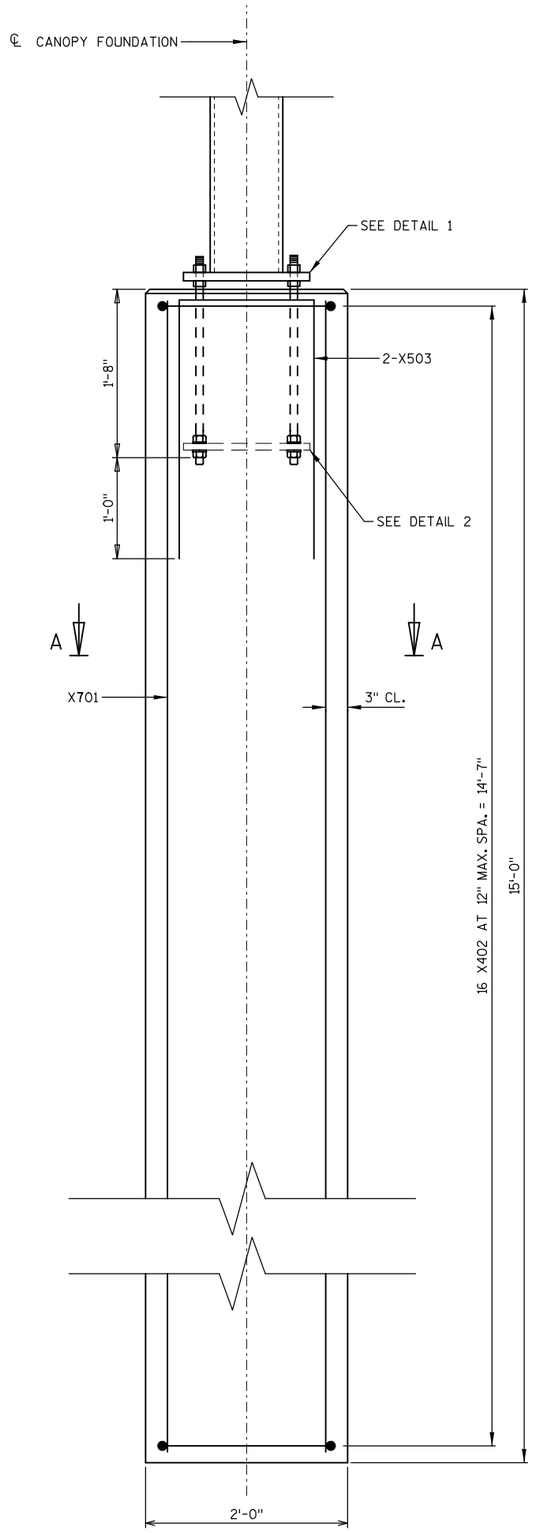
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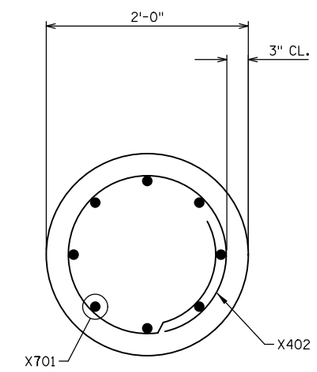
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BATCH PRINT SHEET 9 OF 12

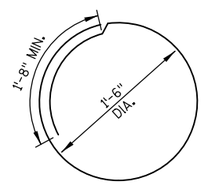
STATE PROJECT NUMBER

1000-57-05

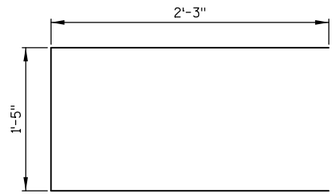




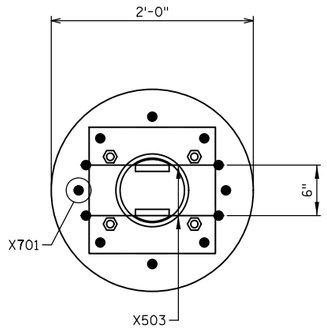
SECTION A-A



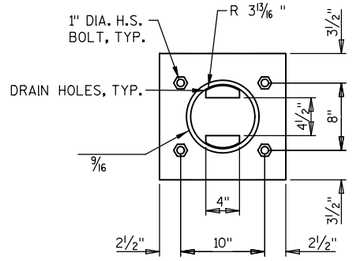
X402



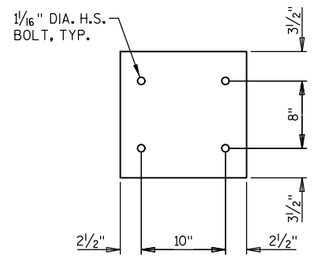
X503



PLAN



DETAIL 1



DETAIL 2

BILL OF BARS

REBAR TOTAL QUANTITY FOR 26 CANOPY FOUNDATIONS.

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
NON-COATED BARS					TOTAL WEIGHT = 3,910 LBS
X701	208	1 - 0			FOOTING VERT.
X402	416	11 - 5	X		FOOTING STIRRUP HORIZ.
X503	52	5 - 8	X		FOOTING STIRRUP HORIZ.

NOTES:

SEE BASE PLATE DETAILS ON SHEET "PLATFORM CANOPY STEEL DETAILS (1 OF 2)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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CANOPY FOUNDATION DETAILS

SHEET S-513
PRE_156

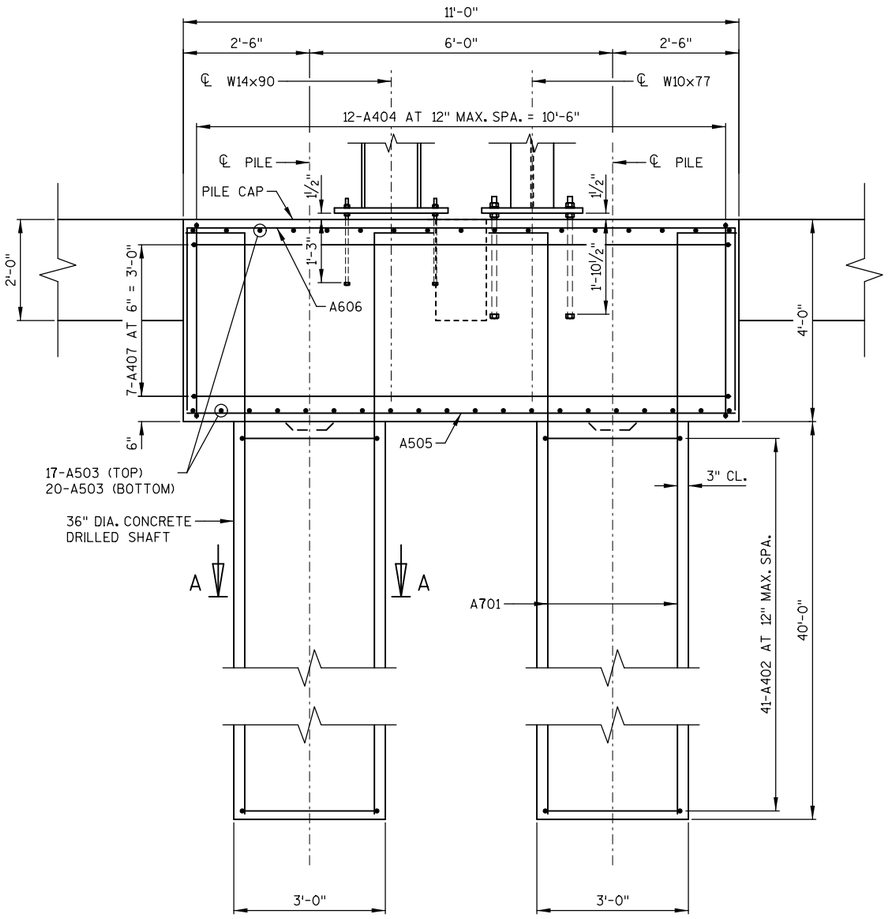
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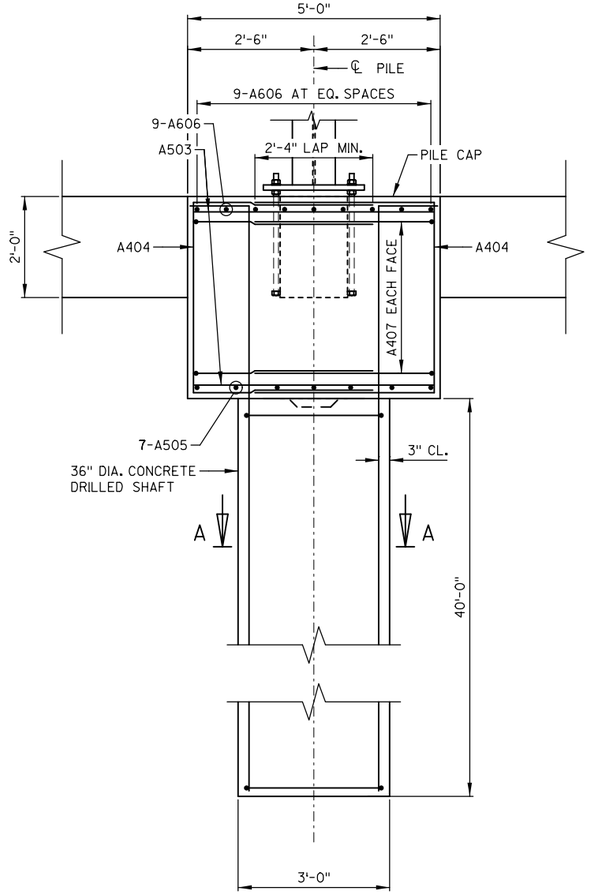
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STATE PROJECT NUMBER

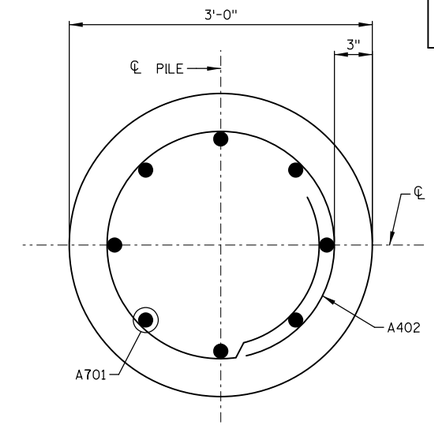
1000-57-05



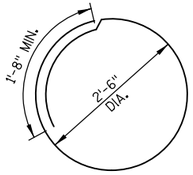
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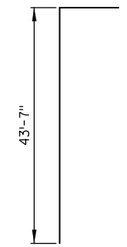
END VIEW



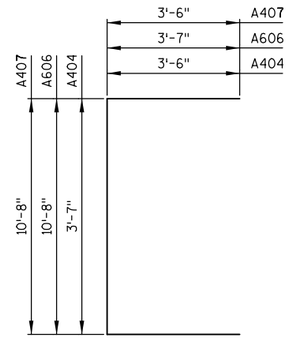
SECTION A-A



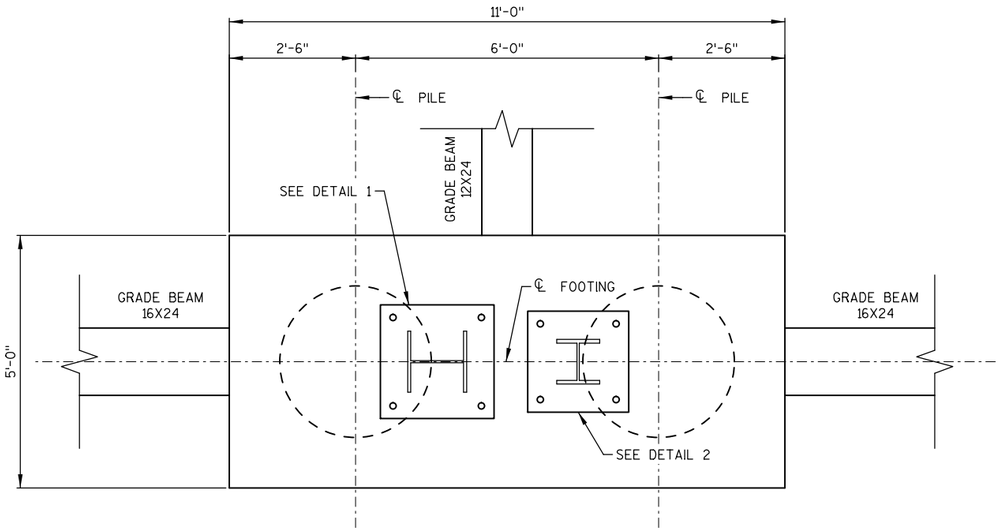
A402



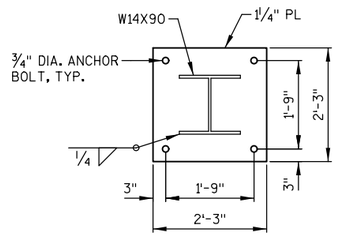
A701



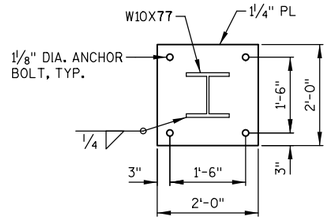
A404, A606, A407



PLAN



DETAIL 1



DETAIL 2

BILL OF BARS

REBAR TOTAL QUANTITY FOR 4 TYPE 1 FOUNDATIONS.

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS					TOTAL WEIGHT = 9,600 LBS	
A701	64	44 - 7	X		DRILLED SHAFT	VERT.
A402	328	17 - 2	X		DRILLED SHAFT STIRRUP	HORIZ.
COATED BARS					TOTAL WEIGHT = 3,310 LBS	
A503	148	4 - 8			FOOTING	HORIZ.
A404	96	10 - 5	X		FOOTING	VERT.
A505	28	10 - 8			FOOTING	HORIZ.
A606	36	17 - 6	X		FOOTING	HORIZ.
A407	56	17 - 6	X		FOOTING	HORIZ.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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BUILDING FOUNDATION DETAILS TYPE 1

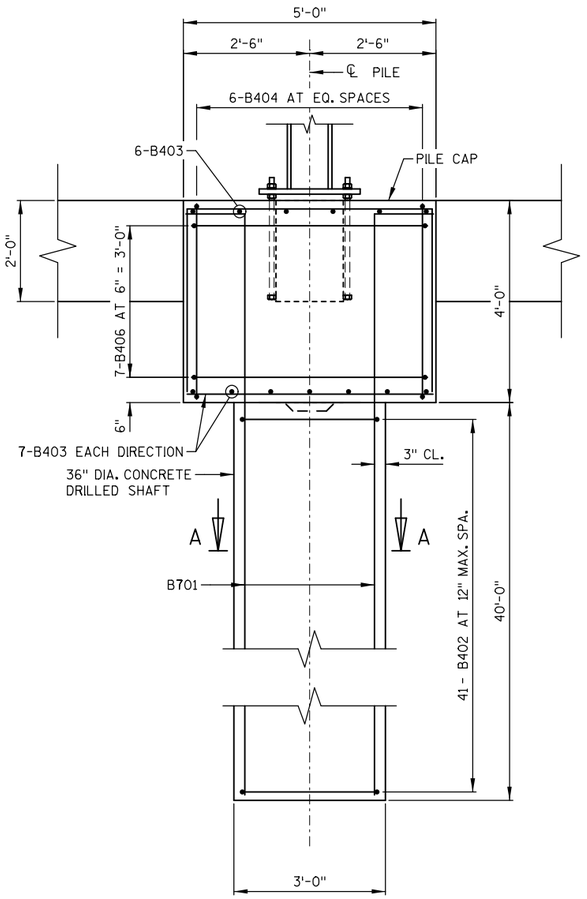
SHEET S-514

PRE_157

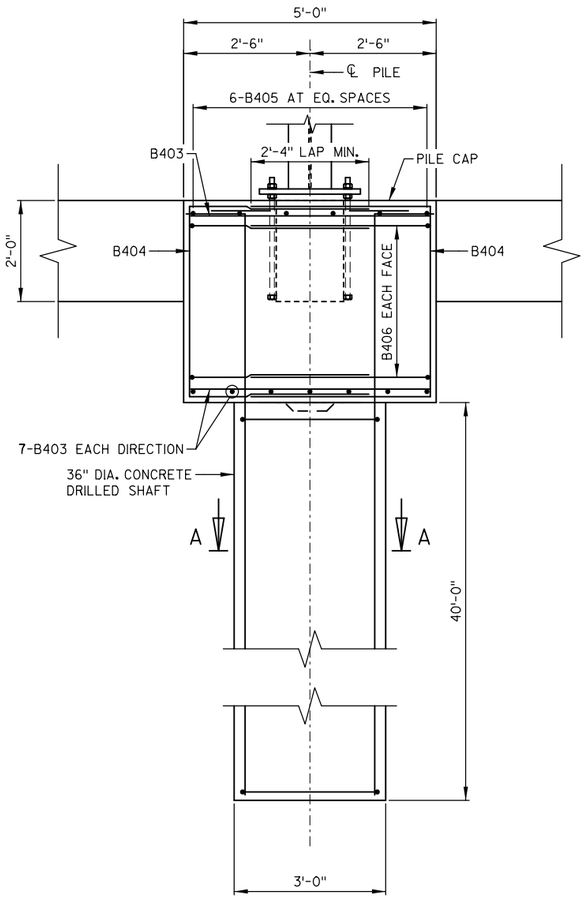
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STATE PROJECT NUMBER

1000-57-05



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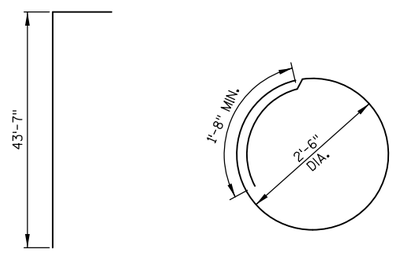


END VIEW

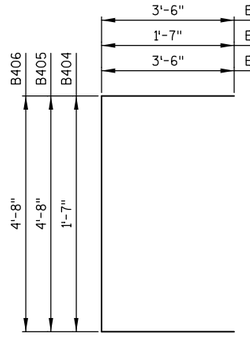
BILL OF BARS

REBAR TOTAL QUANTITY FOR 12 TYPE 2 FOUNDATIONS.

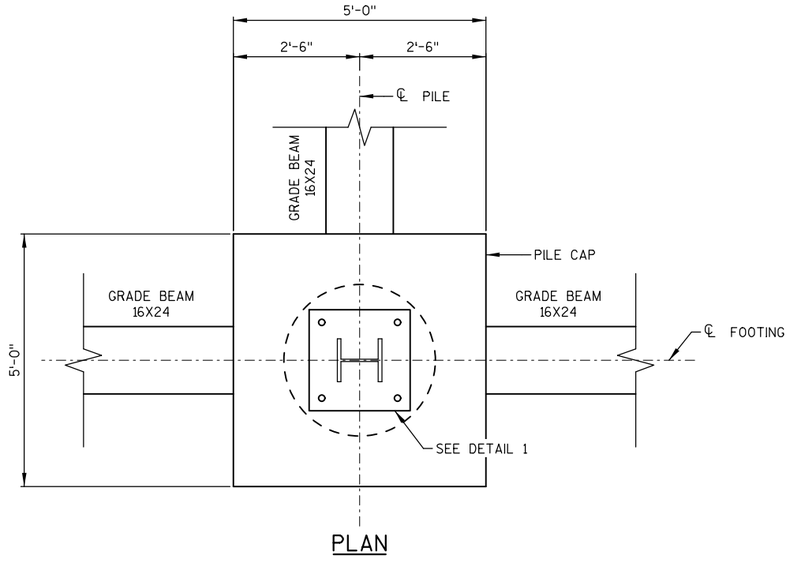
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS					TOTAL WEIGHT = 14,400 LBS	
B701	96	44 - 7	X		DRILLED SHAFT	VERT.
B402	492	17 - 2	X		DRILLED SHAFT STIRRUP	HORIZ.
COATED BARS					TOTAL WEIGHT = 3,450 LBS	
B403	312	4 - 8			FOOTING	HORIZ.
B404	144	8 - 5	X		FOOTING	VERT.
B405	72	7 - 8	X		FOOTING	HORIZ.
B406	168	11 - 6	X		FOOTING	HORIZ.



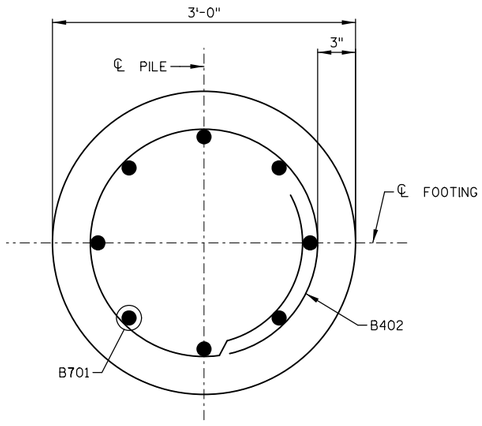
B701 B402



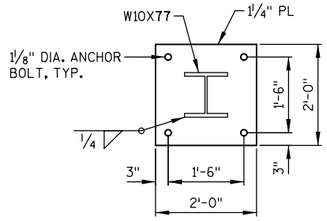
B404, B405, B406



PLAN



SECTION A-B



DETAIL 1

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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BUILDING FOUNDATION DETAILS TYPE 2

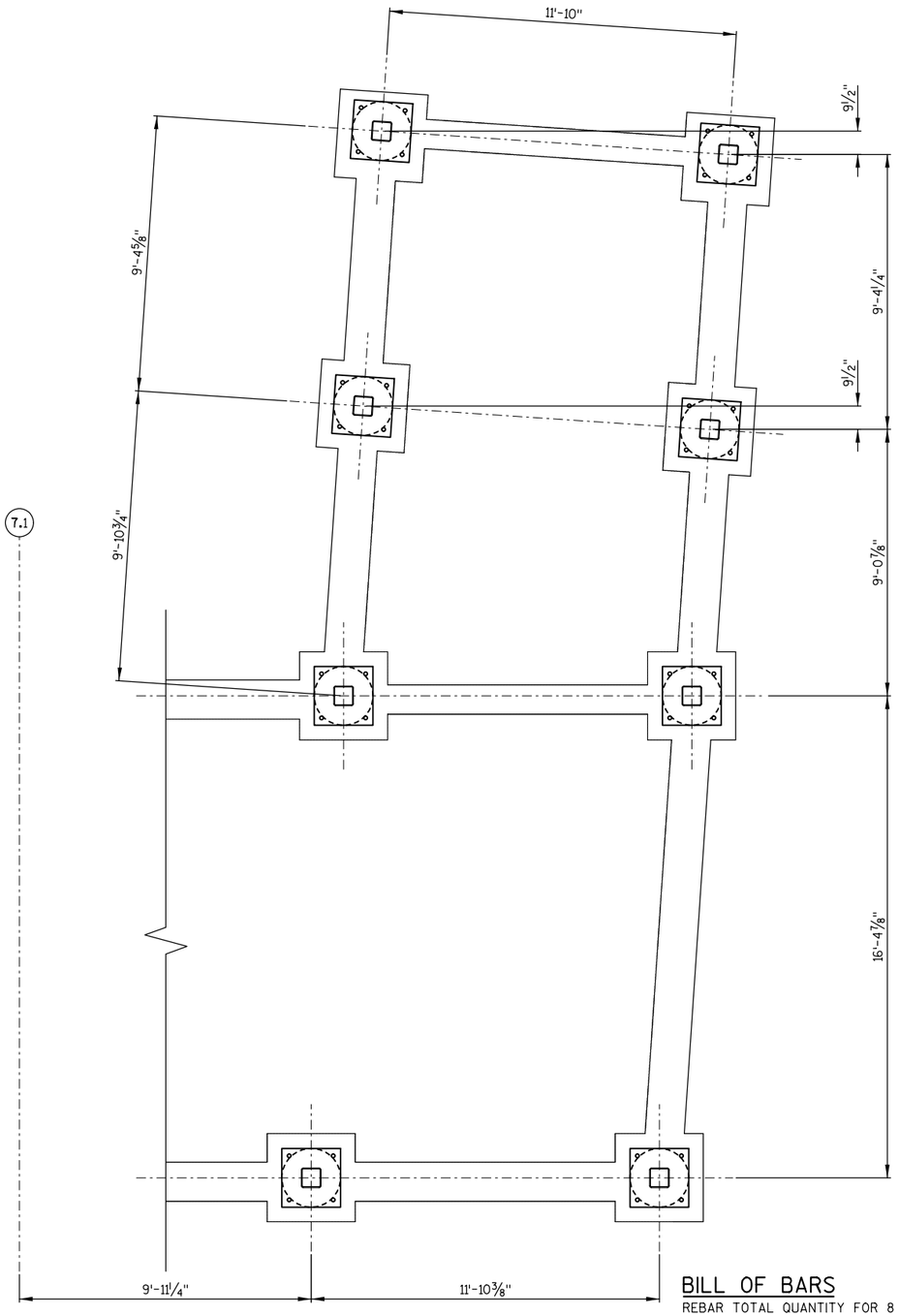
SHEET S-515
PRE_158

8

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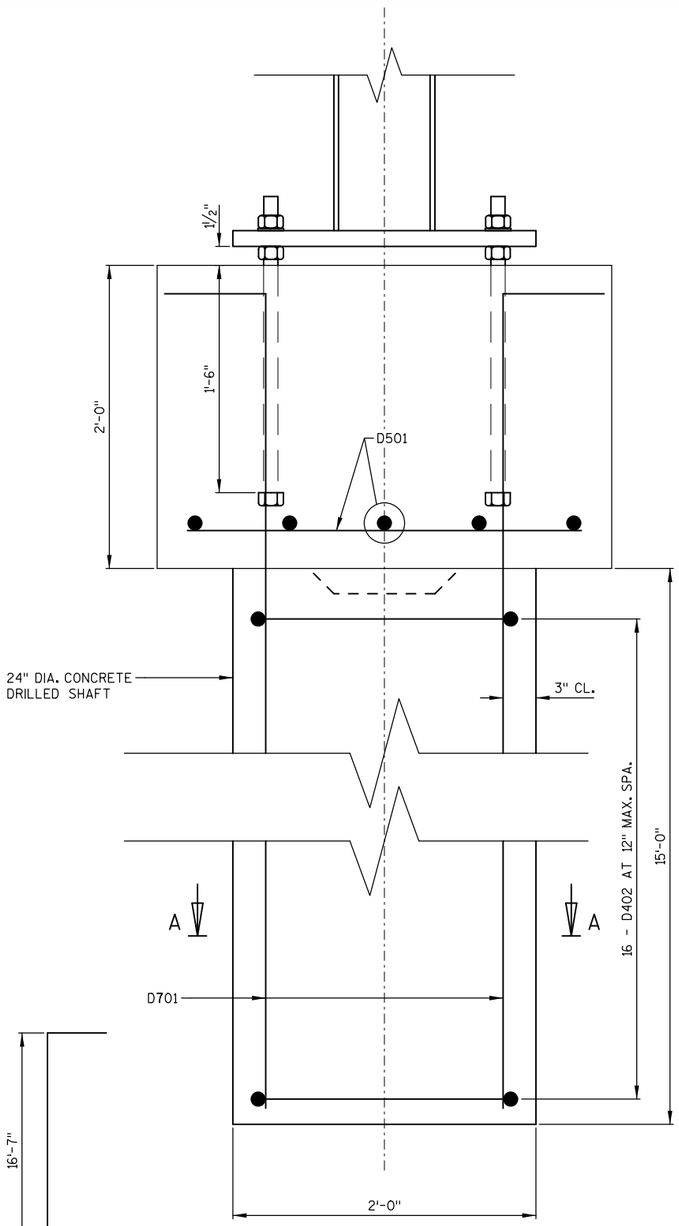
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STATE PROJECT NUMBER
1000-57-05

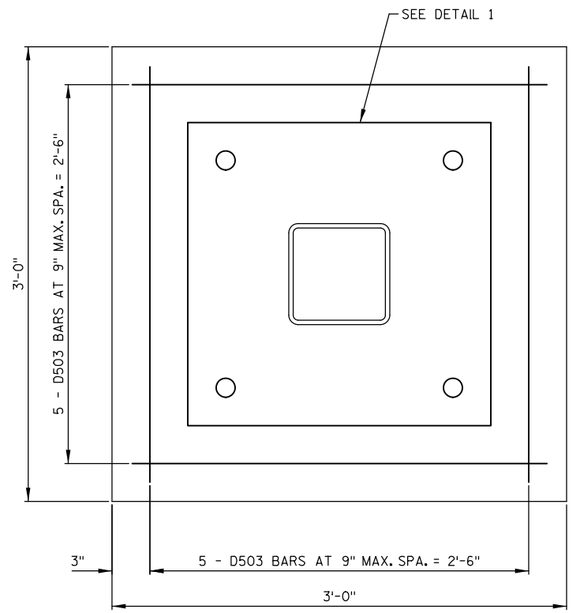


TYPE 3 FOUNDATION LOCATIONS

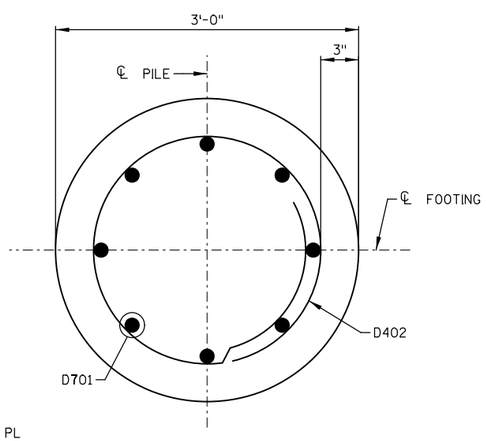
D701



ELEVATION



PLAN

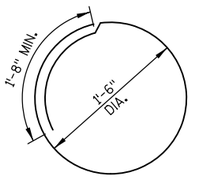


SECTION A-A

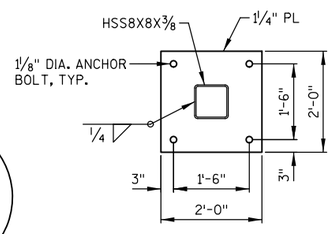
BILL OF BARS

REBAR TOTAL QUANTITY FOR 8 TYPE 3 FOUNDATIONS.

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS					TOTAL WEIGHT = 3,240 LBS	
D701	64	17 - 7	X		DRILLED SHAFT	VERT.
D402	128	10 - 11	X		DRILLED SHAFT STIRRUP	HORIZ.
COATED BARS					TOTAL WEIGHT = 230 LBS	
D503	80	2 - 8			FOUNDATION	HORIZ.



D402



DETAIL 1

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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BUILDING FOUNDATION DETAILS TYPE 3

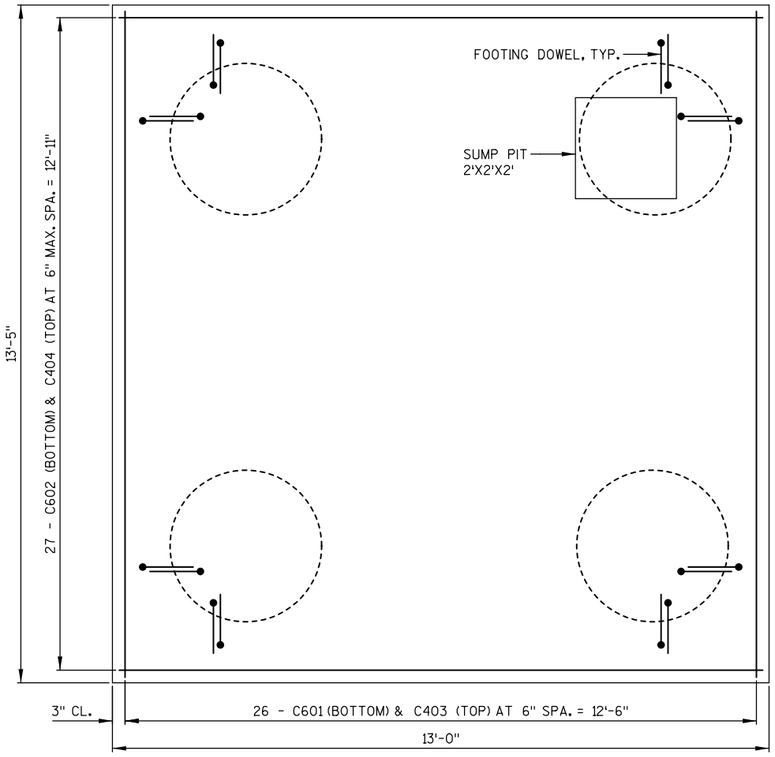
SHEET S-516
PRE_159

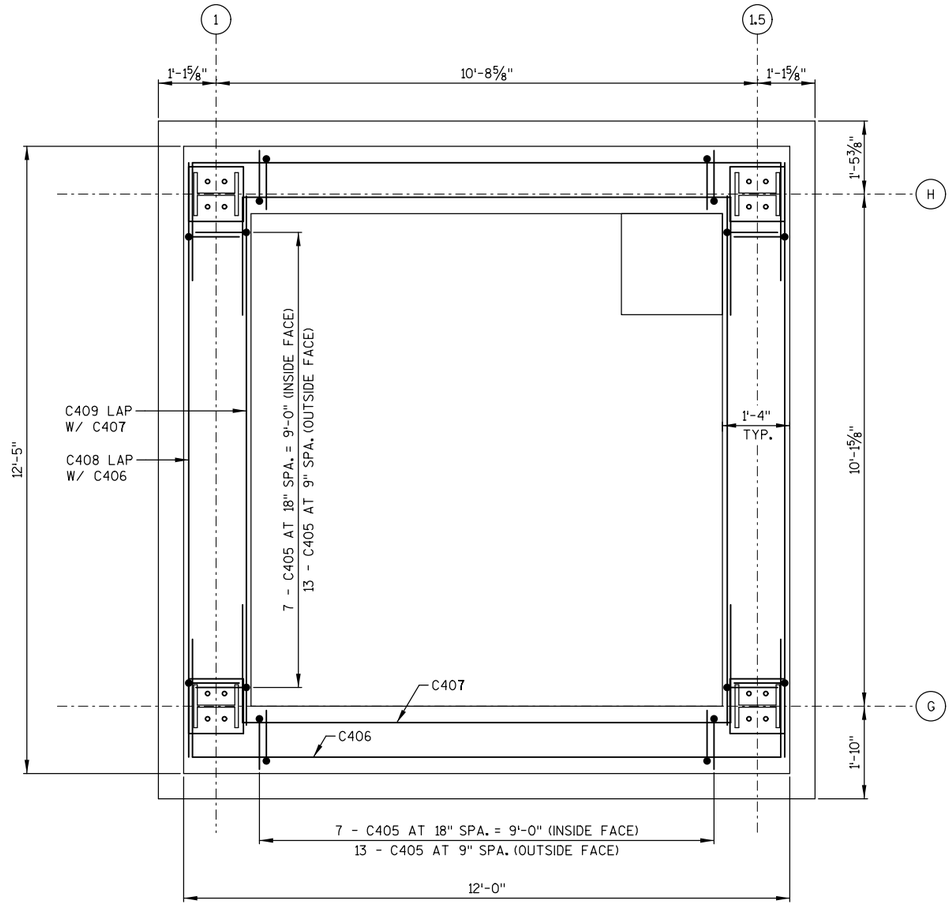
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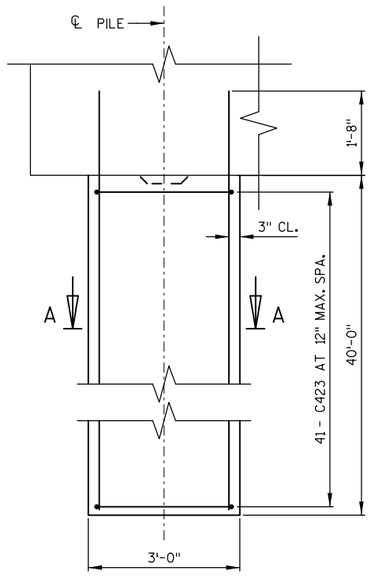
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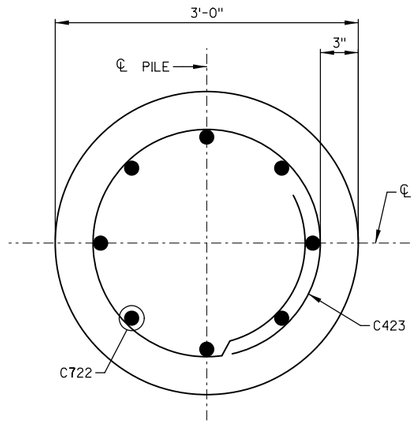
STATE PROJECT NUMBER
1000-57-05



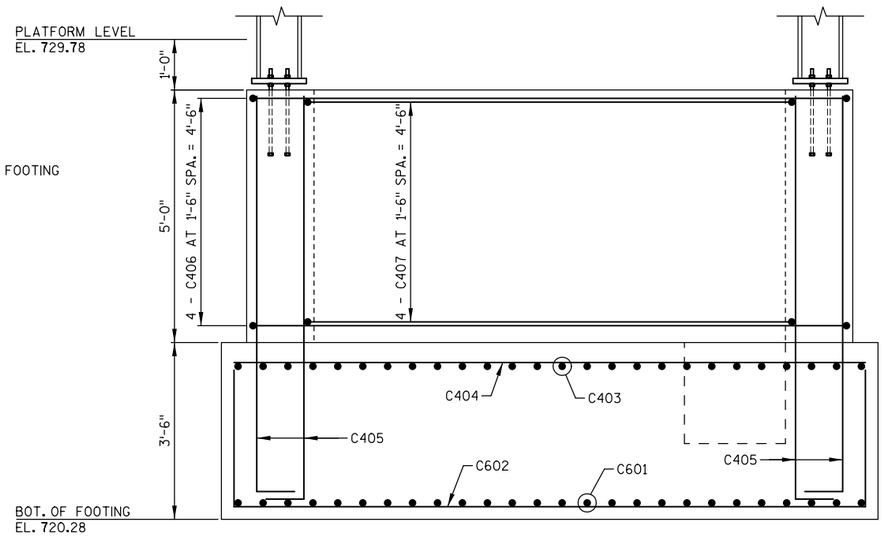




TYPICAL PILE DETAIL



SECTION A-A



NOTE:
SEE SHEET "ELEVATOR PIT DETAILS (2 OF 4)" FOR COLUMN BASE PLATE AND ANCHOR BOLT DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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ELEVATOR PIT DETAILS (1 OF 4)

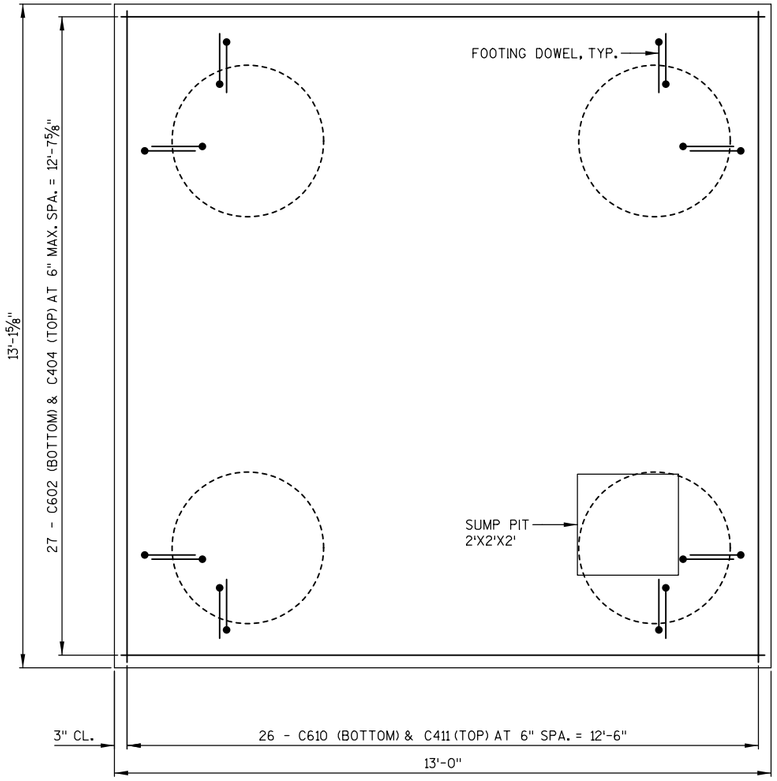
SHEET S-517
PRE_160

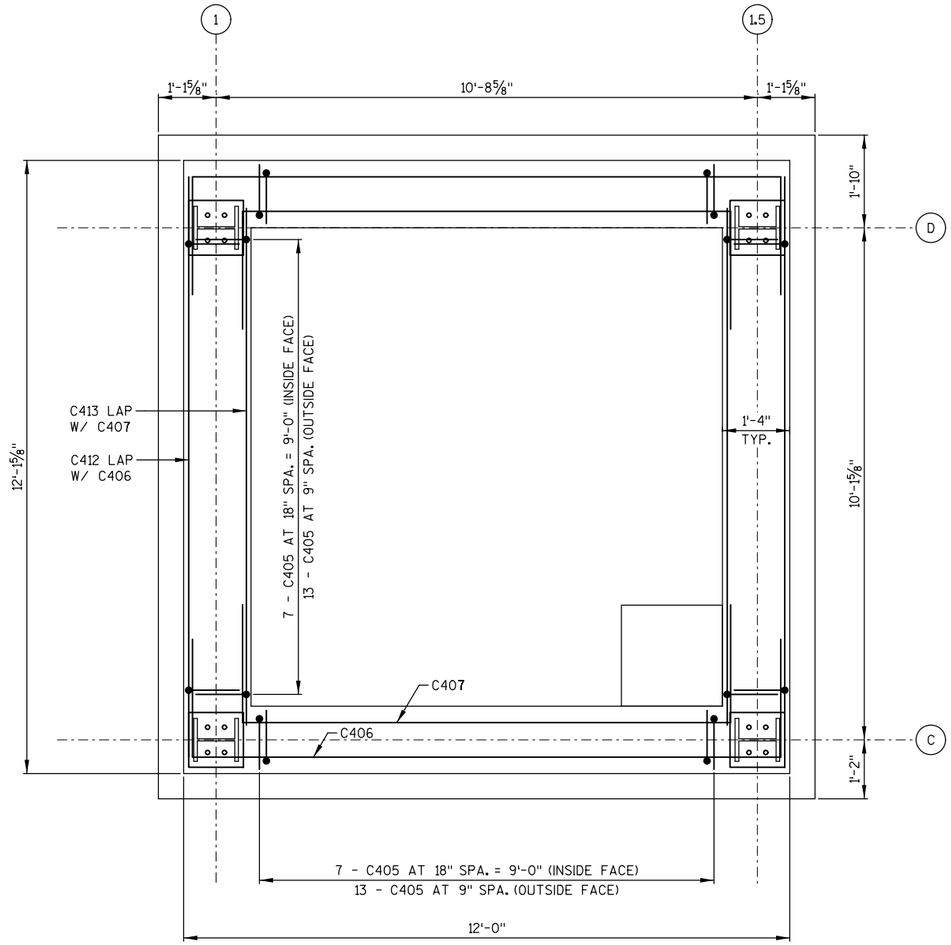
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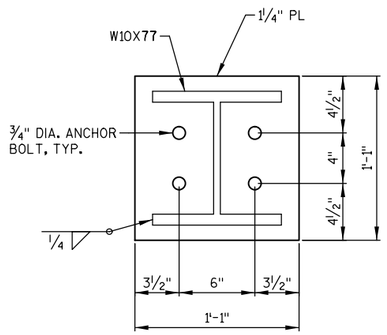
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STATE PROJECT NUMBER

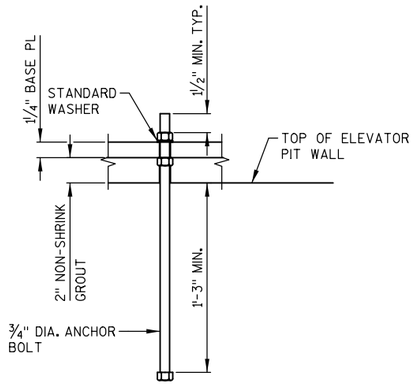
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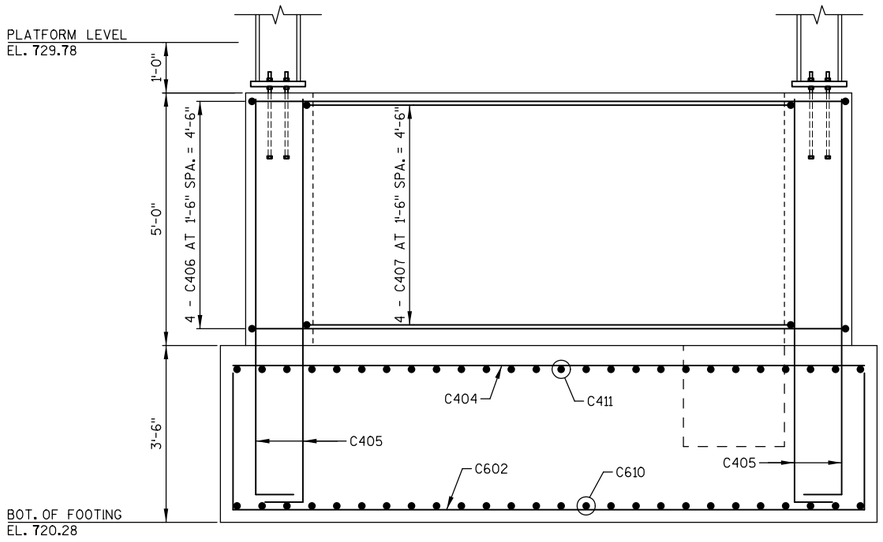




COLUMN BASE PLATE



ANCHOR BOLT DETAIL



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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ELEVATOR PIT DETAILS (2 OF 4)

SHEET S-518

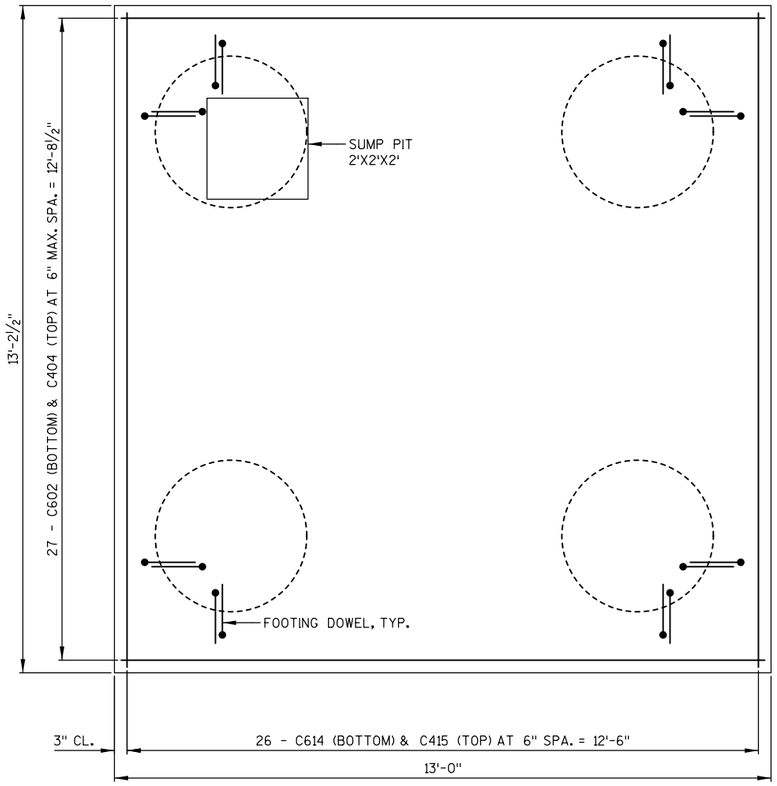
PRE_161

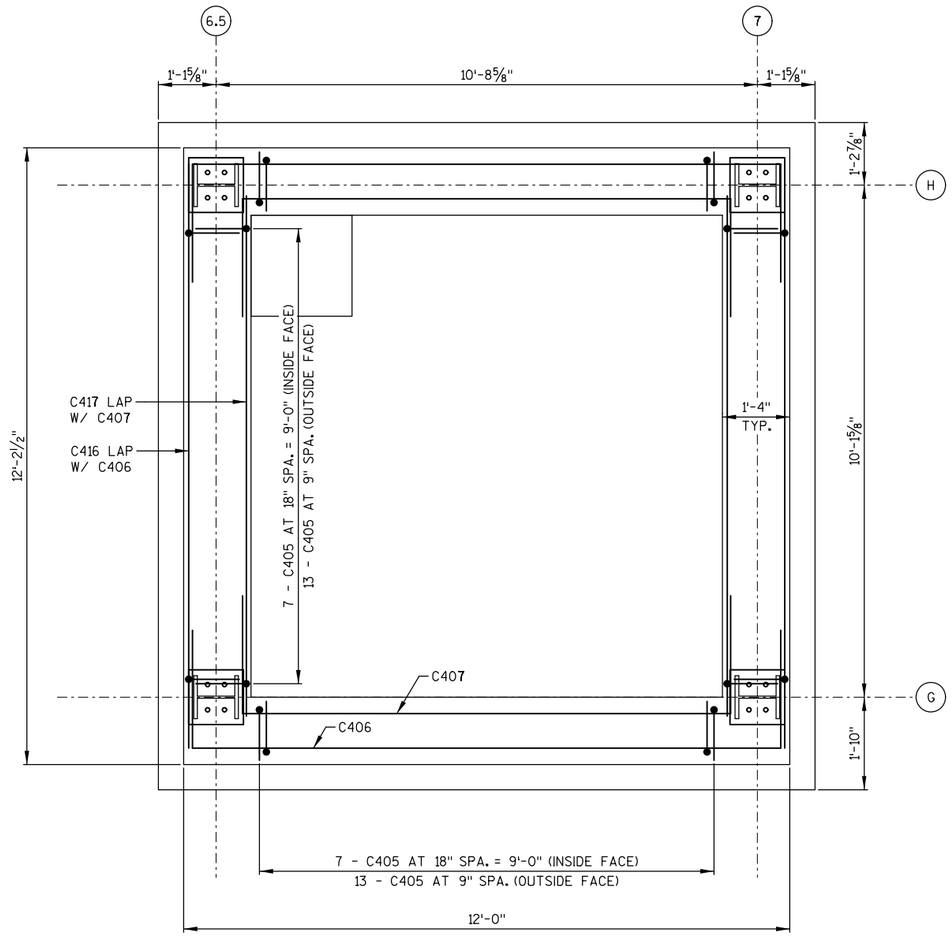
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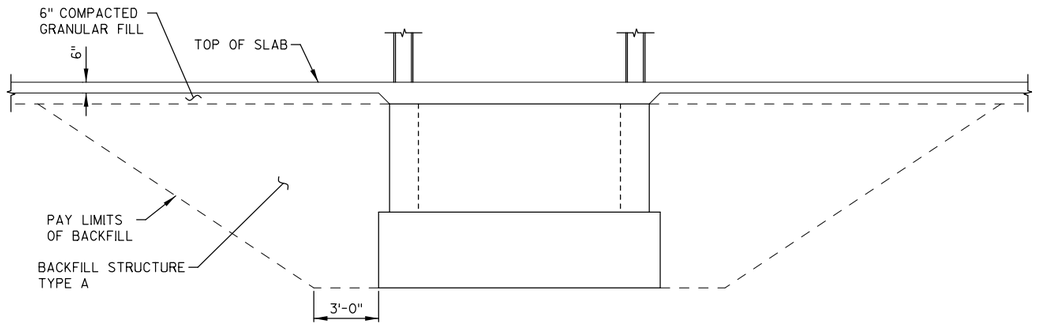
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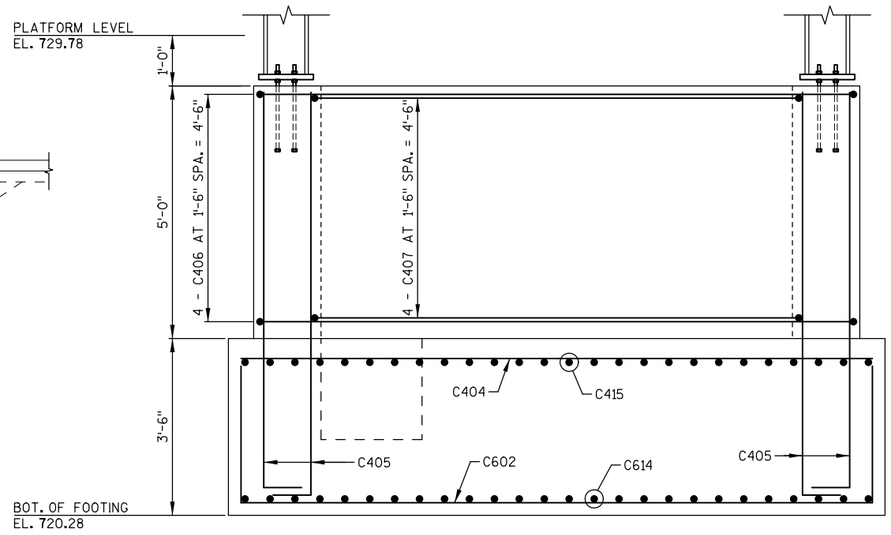
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BATCH PRINT SHEET 3 OF 8







TYPICAL BACKFILL DETAIL



NOTE:
SEE SHEET "ELEVATOR PIT DETAILS (2 OF 4)" FOR COLUMN BASE PLATE AND ANCHOR BOLT DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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ELEVATOR PIT DETAILS (3 OF 4)

SHEET S-519
PRE_162

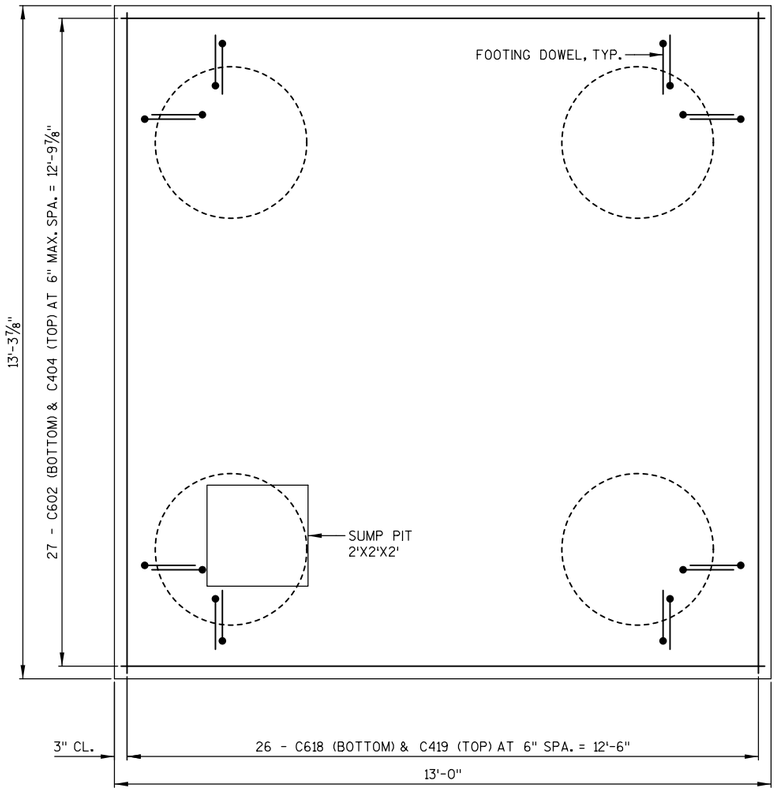
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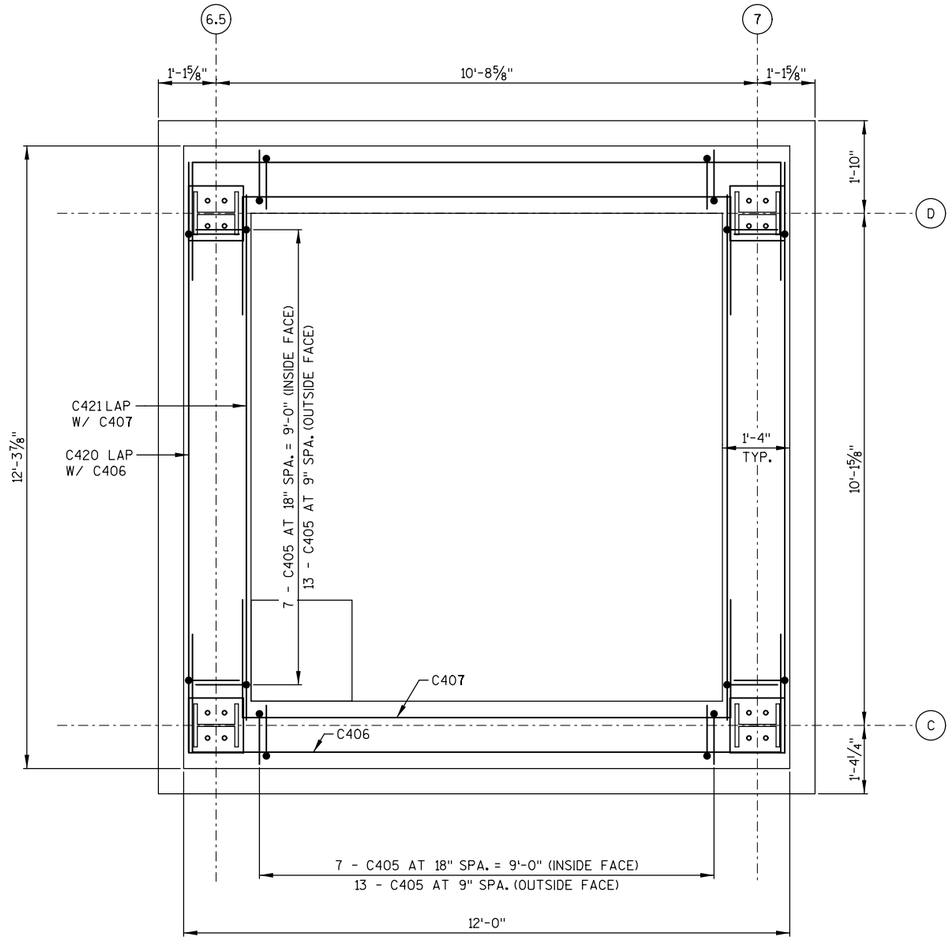
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STATE PROJECT NUMBER

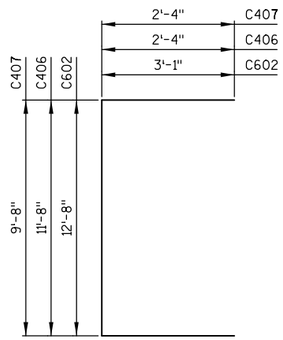
1000-57-05



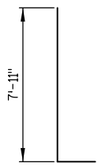


BILL OF BARS

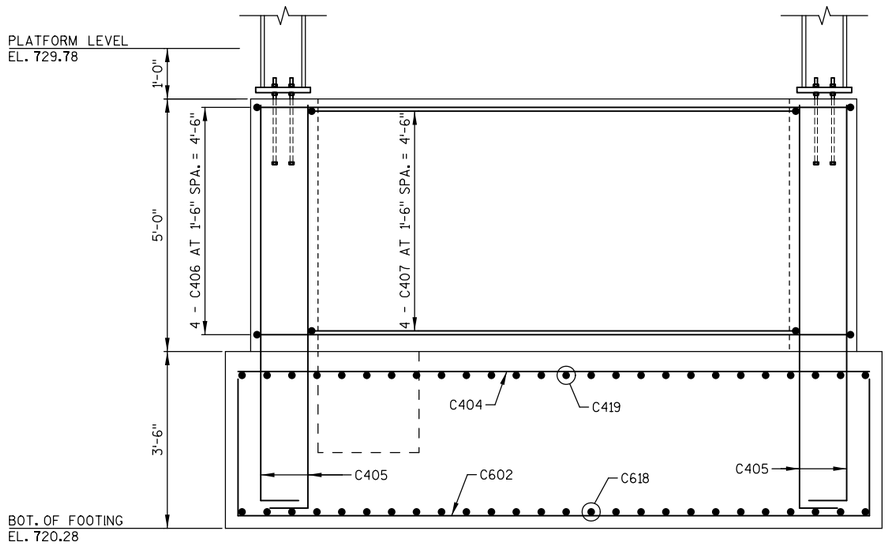
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS					TOTAL WEIGHT = 13,780 LBS	
C722	128	41 - 5			FOOTING PILE	VERT.
C423	256	17 - 2	X		FOOTING PILE STIRRUP	HORIZ.
COATED BARS					TOTAL WEIGHT = 9,070 LBS	
C601	26	13 - 1			FOOTING (BOTTOM)	HORIZ.
C602	108	18 - 6	X		FOOTING (BOTTOM)	HORIZ.
C403	26	13 - 1			FOOTING (TOP)	HORIZ.
C404	108	3 - 1			FOOTING (TOP)	HORIZ.
C405	320	8 - 6	X		FOOTING WALL	VERT.
C406	32	16 - 2	X		FOOTING WALL	HORIZ.
C407	32	14 - 2	X		FOOTING WALL	HORIZ.
C408	8	12 - 1			FOOTING WALL	HORIZ.
C409	8	10 - 1			FOOTING WALL	HORIZ.
C610	26	12 - 9			FOOTING (BOTTOM)	HORIZ.
C411	26	12 - 9			FOOTING (TOP)	HORIZ.
C412	8	11 - 9			FOOTING WALL	HORIZ.
C413	8	9 - 10			FOOTING WALL	HORIZ.
C614	26	12 - 10			FOOTING (BOTTOM)	HORIZ.
C415	26	12 - 10			FOOTING (TOP)	HORIZ.
C416	8	11 - 10			FOOTING WALL	HORIZ.
C417	8	9 - 11			FOOTING WALL	HORIZ.
C618	26	12 - 11			FOOTING (BOTTOM)	HORIZ.
C419	26	12 - 11			FOOTING (TOP)	HORIZ.
C420	8	11 - 11			FOOTING WALL	HORIZ.
C421	8	10 - 0			FOOTING WALL	HORIZ.



C602, C406, C407



C405



NOTE:

SEE SHEET "ELEVATOR PIT DETAILS (2 OF 4)" FOR COLUMN BASE PLATE AND ANCHOR BOLT DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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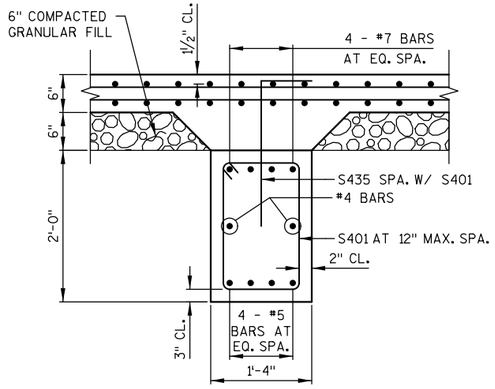
ELEVATOR PIT DETAILS (4 OF 4)

SHEET S-520
PRE_163

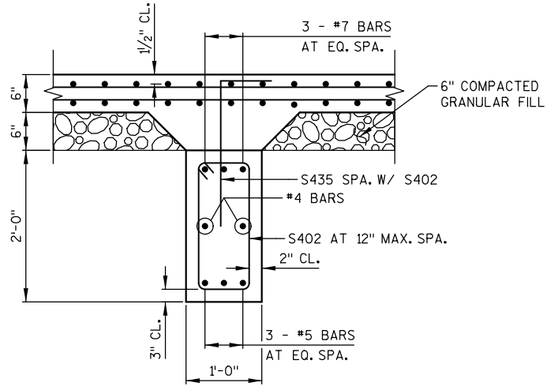
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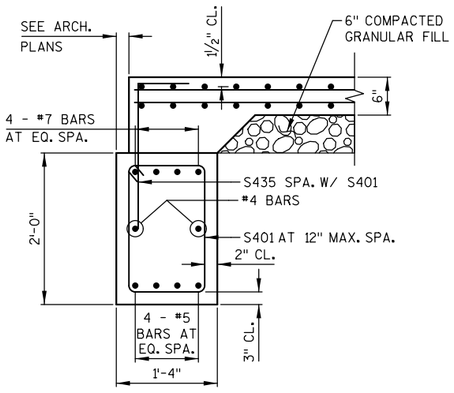
SECTION A-A



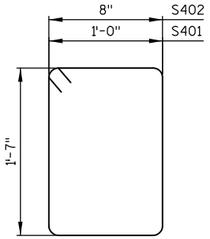
SECTION B-B

BILL OF BARS

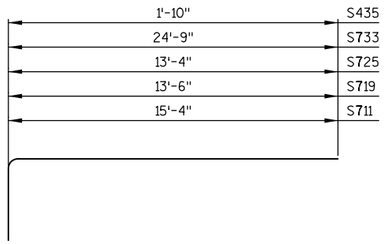
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED BARS					TOTAL WEIGHT = 10,290 LBS	
S401	345	5 - 8	X		GRADE BEAM STIRRUP	VERT.
S402	104	5 - 0	X		GRADE BEAM STIRRUP	VERT.
S703	16	24 - 2			TOWER GRADE BEAM (TOP)	HORIZ.
S504	24	22 - 4			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S705	8	30 - 7			TOWER GRADE BEAM (TOP)	HORIZ.
S506	12	28 - 9			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S707	8	13 - 10			TOWER GRADE BEAM (TOP)	HORIZ.
S508	12	12 - 0			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S709	8	23 - 10			TOWER GRADE BEAM (TOP)	HORIZ.
S510	12	22 - 0			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S711	8	17 - 9	X		TOWER GRADE BEAM (TOP)	HORIZ.
S512	12	14 - 1			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S713	8	20 - 11			TOWER GRADE BEAM (TOP)	HORIZ.
S514	12	19 - 1			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S715	8	24 - 4			TOWER GRADE BEAM (TOP)	HORIZ.
S516	12	22 - 6			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S717	8	15 - 4			TOWER GRADE BEAM (TOP)	HORIZ.
S518	12	13 - 6			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S719	12	16 - 9	X		TOWER GRADE BEAM (TOP)	HORIZ.
S520	20	12 - 3			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S721	6	20 - 11			TOWER GRADE BEAM (TOP)	HORIZ.
S522	10	19 - 1			TOWER GRADE BEAM (BOTTOM & SIDES)	HORIZ.
S723	4	17 - 10			VESTIBULE GRADE BEAM (TOP)	HORIZ.
S524	6	16 - 0			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S725	4	16 - 7	X		VESTIBULE GRADE BEAM (TOP)	HORIZ.
S526	6	12 - 2			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S727	3	13 - 3			VESTIBULE GRADE BEAM (TOP)	HORIZ.
S528	5	11 - 5			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S729	4	20 - 6			VESTIBULE GRADE BEAM (TOP)	HORIZ.
S530	6	18 - 8			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S731	3	13 - 2			VESTIBULE GRADE BEAM (TOP)	HORIZ.
S532	5	11 - 4			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S733	4	27 - 4			VESTIBULE GRADE BEAM (TOP)	HORIZ.
S534	6	22 - 11			VESTIBULE GRADE BEAM (BOTTOM & SIDES	HORIZ.
S435	449	2 - 5	X		GRADE BEAM DOWEL	VERT.



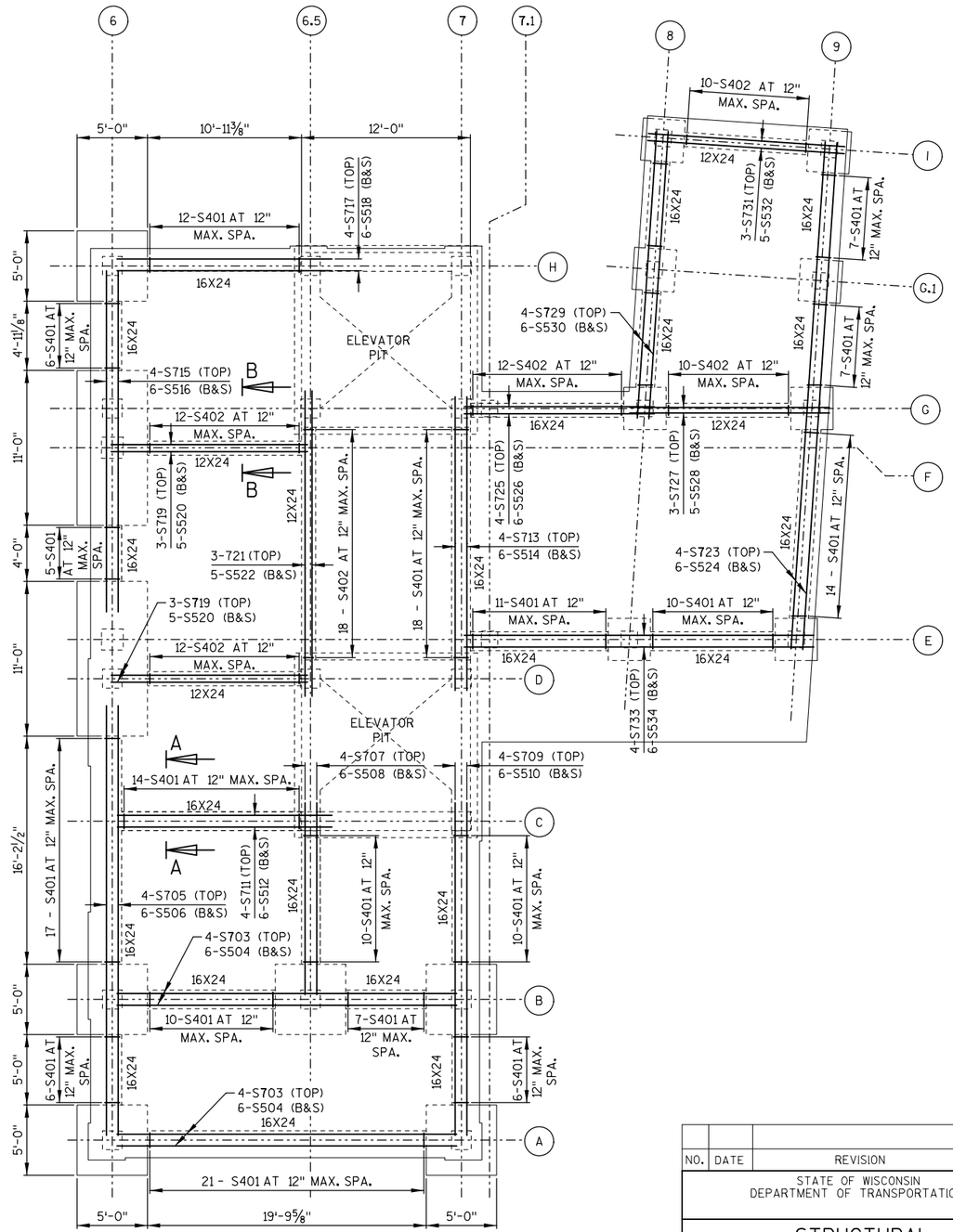
TYPICAL EDGE BEAM



S401, S402



S711, S719, S725, S733, S435



PLAN

(EAST TOWER SHOWN, WEST TOWER SIMILAR)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

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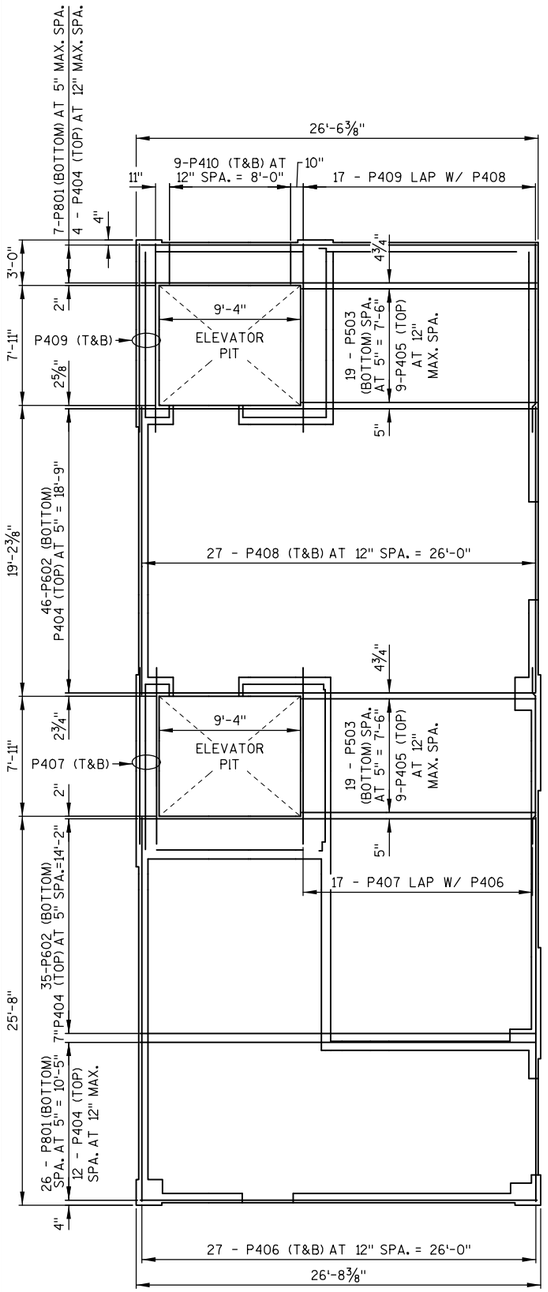
GRADE BEAM REINFORCEMENT PLAN

SHEET S-521
PRE_164

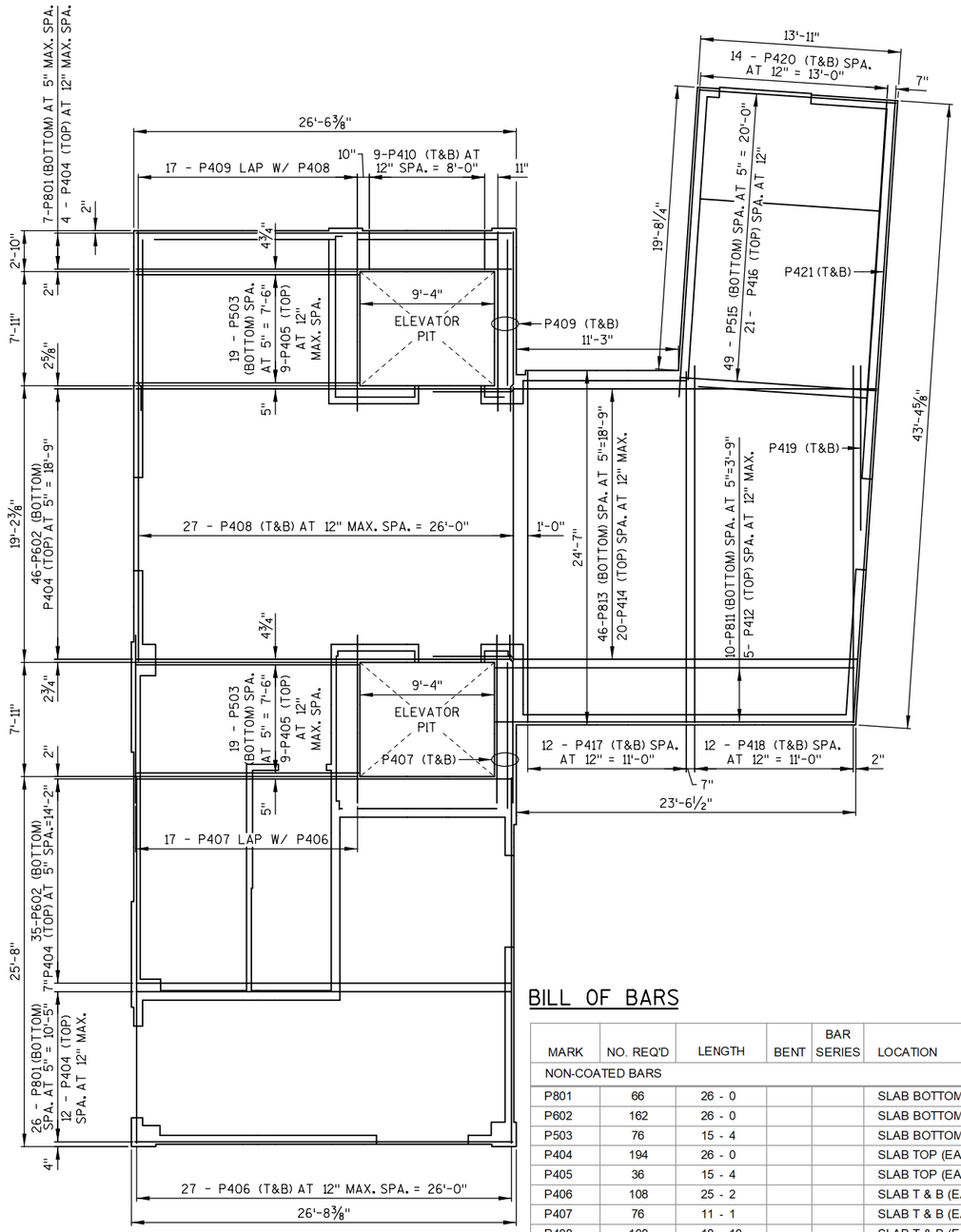
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STATE PROJECT NUMBER

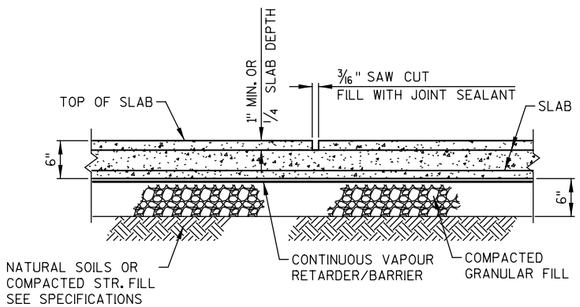
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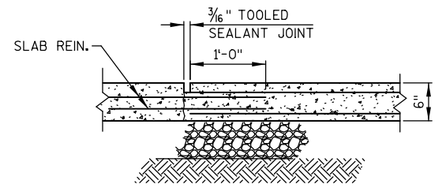
WEST TOWER



EAST TOWER



SLAB ON GRADE CONSTRUCTION



SLAB ON GRADE CONSTRUCTION JOINT

BILL OF BARS

MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
NON-COATED BARS					TOTAL WEIGHT = 27,260 LBS	
P801	66	26 - 0			SLAB BOTTOM (EAST & WEST TOWER)	TRANS.
P602	162	26 - 0			SLAB BOTTOM (EAST & WEST TOWER)	TRANS.
P503	76	15 - 4			SLAB BOTTOM (EAST & WEST TOWER)	TRANS.
P404	194	26 - 0			SLAB TOP (EAST & WEST TOWER)	TRANS.
P405	36	15 - 4			SLAB TOP (EAST & WEST TOWER)	TRANS.
P406	108	25 - 2			SLAB T & B (EAST & WEST TOWER)	LONG.
P407	76	11 - 1			SLAB T & B (EAST & WEST TOWER)	LONG.
P408	108	18 - 10			SLAB T & B (EAST & WEST TOWER)	LONG.
P409	76	12 - 3			SLAB T & B (EAST & WEST TOWER)	LONG.
P410	9	2 - 6			SLAB T & B (EAST & WEST TOWER)	LONG.
P811	10	24 - 8			SLAB BOTTOM (EAST TOWER)	TRANS.
P412	5	24 - 8			SLAB TOP (EAST TOWER)	TRANS.
P813	46	30 - 9			SLAB BOTTOM (EAST TOWER)	TRANS.
P414	20	26 - 9			SLAB TOP (EAST TOWER)	TRANS.
P515	49	13 - 7			SLAB BOTTOM (EAST TOWER)	TRANS.
P416	21	13 - 7			SLAB TOP (EAST TOWER)	TRANS.
P417	24	24 - 3			SLAB T & B (EAST TOWER)	LONG.
P418	24	25 - 7			SLAB T & B (EAST TOWER)	LONG.
P419	2	14 - 0			SLAB T & B (EAST TOWER)	LONG.
P420	28	20 - 6			SLAB T & B (EAST TOWER)	LONG.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY CEB | PLANS CK'D. ---

CONCRETE SLAB DETAILS

SHEET S-522
PRE_165

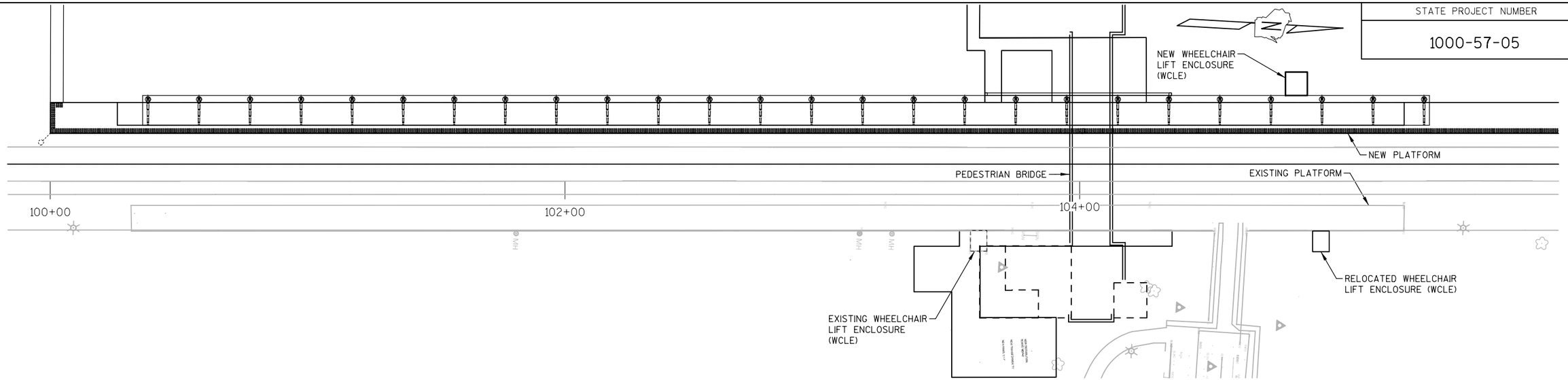
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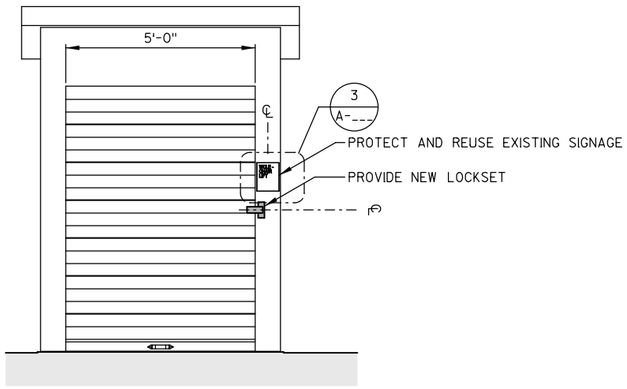
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STATE PROJECT NUMBER

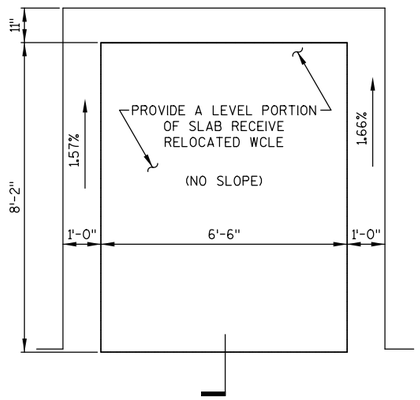
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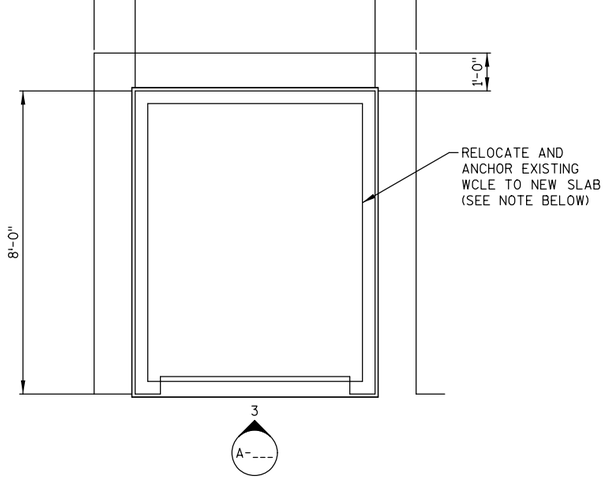
WCLE RELOCATION PLAN



WCLE ELEVATION - EAST



WCLE SLAB PLAN



RELOCATED WCLE PLAN

NOTES

RELOCATE EXISTING WHEELCHAIR LIFT ENCLOSURE TO NEW PLATFORM. REMOVE EXISTING BASE CHANNEL ANCHORS SECURING EXISTING WHEELCHAIR LIFT ENCLOSURE TO THE EXISTING PLATFORM. BRACE AND SECURE STRUCTURE AS REQUIRED TO RELOCATE STRUCTURE TO NEW SLAB. PROVIDE NEW BASE ANCHORS, SEALANT AND FLASHING. REFERENCE DETAILS FOR ADDITIONAL ANCHORAGE INFORMATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY DNJ | PLANS CK'D. ---

WHEELCHAIR LIFT ENCLOSURE (WCLE)

SHEET S-523

PRE_166

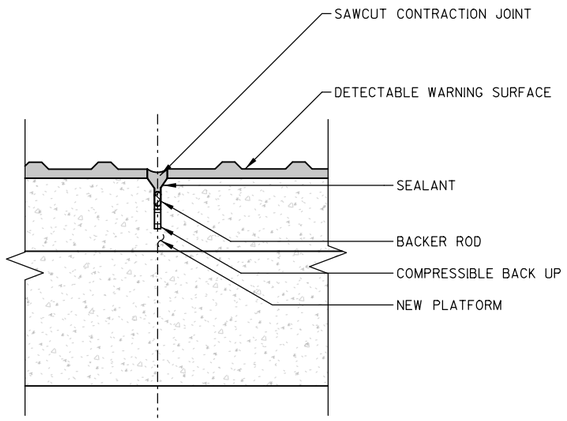
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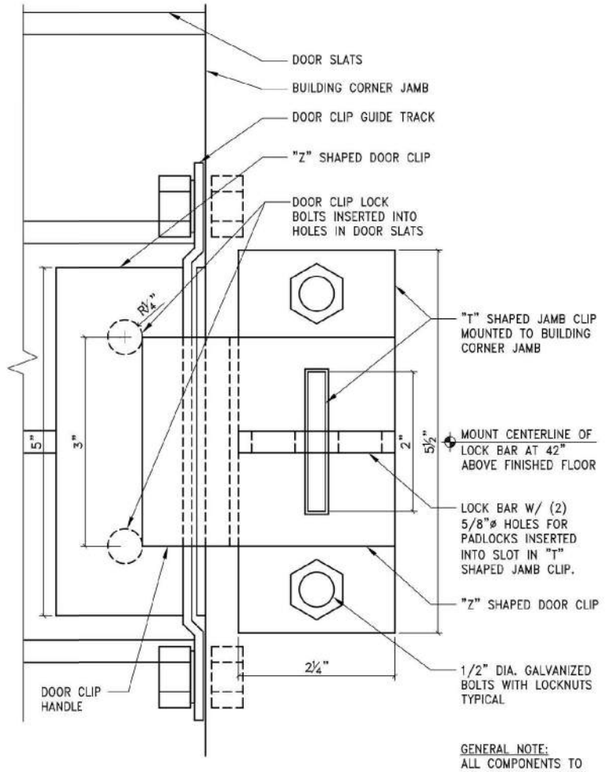
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BATCH PRINT SHEET 2 OF 2

STATE PROJECT NUMBER

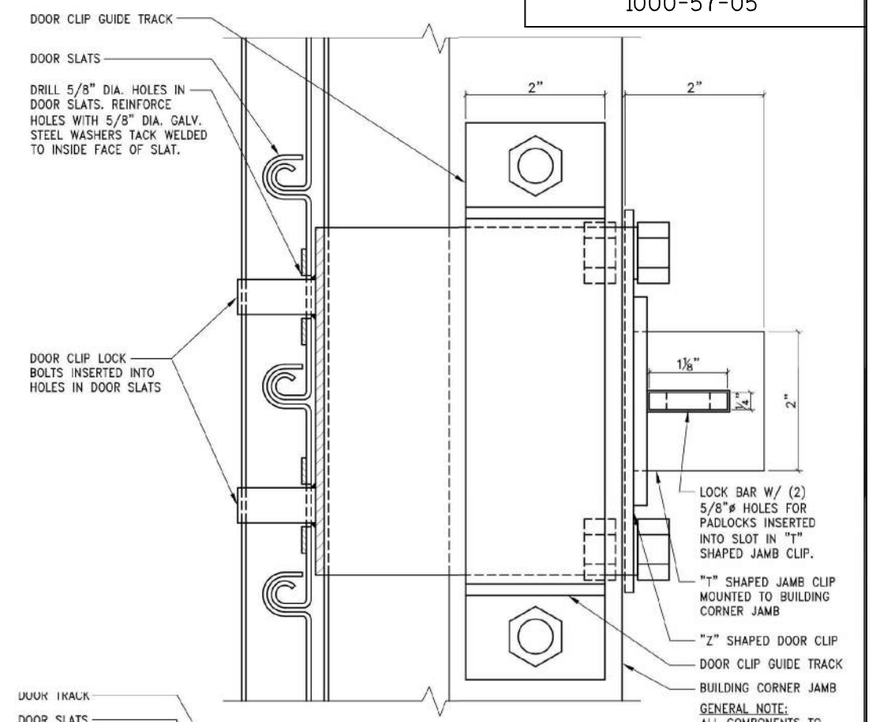
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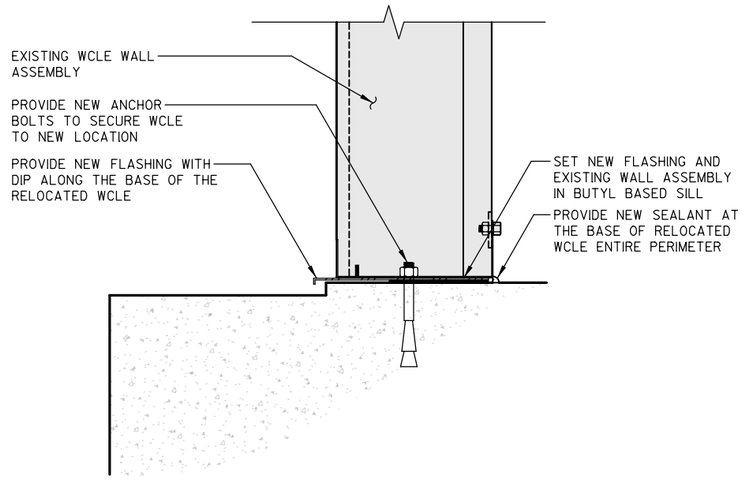
CONTRACTION JOINT DETAIL



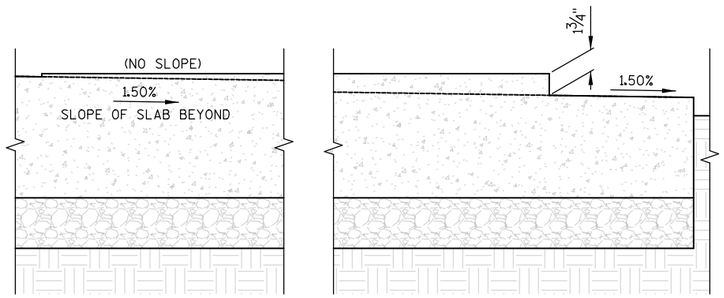
LOCKSET FRONT ELEVATION DETAIL



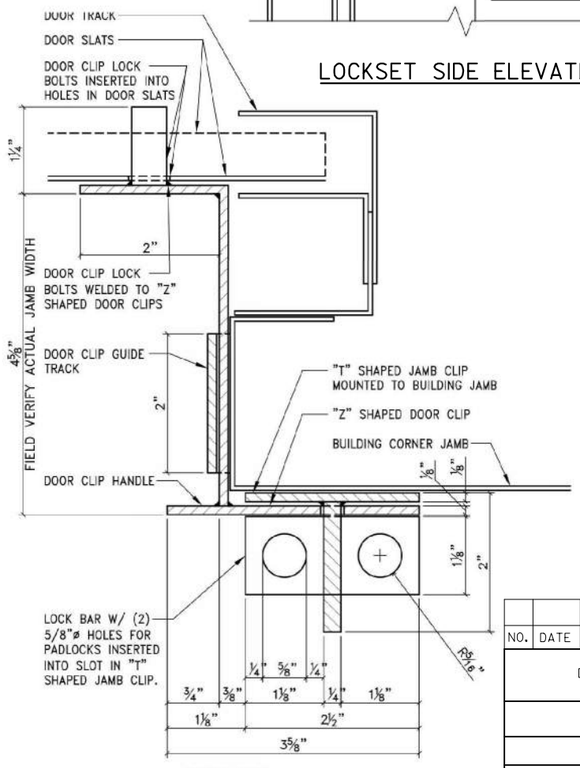
LOCKSET SIDE ELEVATION DETAIL



WCLE - BASE CHANNEL DETAIL



WCLE SLAB DETAIL



LOCKSET PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURAL

DRAWN BY DNJ | PLANS CK'D. ---

WHEELCHAIR LIFT ENCLOSURE (WCLE)

SHEET S-524
PRE_167

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BATCH PRINT SHEET CSD OF NSD
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PLOT DATE: $$...plottingdate...$$

CODE SUMMARY AND GENERAL NOTES

STATE PROJECT NUMBER

1000-57-05

A. STATE: WISCONSIN _____ MUNICIPALITY: MILWAUKEE
ADDRESS: 5601 S. 6TH STREET MILWAUKEE, WI _____
THIS LIST IS PROVIDED FOR INFORMATION ONLY AND SHALL NOT BE CONSIDERED FINAL.
IDENTIFY AND COMPLY WITH ALL APPLICABLE CODES. REFER TO CHAPTER 34 (EXISTING STRUCTURES) OF THE IBC WHERE APPLICABLE.

BUILDING CODE	2015 INTERNATIONAL BUILDING CODE*
PLUMBING CODE	WISCONSIN ADMINISTRATIVE CODE CHAPTERS SPS 380 THROUGH SPS 387
MECHANICAL CODE	2015 INTERNATIONAL MECHANICAL CODE*
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE*
FUEL GAS CODE	2015 INTERNATIONAL FUEL GAS CODE*
FIRE CODE	2015 NFPA 1 FIRE CODE*
ACCESSIBILITY CODE	2006 DEPARTMENT OF TRANSPORTATION ACCESSIBILITY STANDARDS
ENERGY CODE	2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)*
PLATFORM EGRESS	2020 EDITION NFPA 130

*AS MODIFIED BY WISCONSIN ADMINISTRATIVE CODE.

CODE ABBREVIATIONS:
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE - AMERICAN SOCIETY OF CIVIL ENGINEERS
ASME - AMERICAN SOCIETY OF MECHANICAL ENGINEERS
CABO - COUNCIL OF AMERICAN BUILDING OFFICIALS
DOTAS - DEPARTMENT OF TRANSPORTATION ACCESSIBILITY STANDARDS
IBC - INTERNATIONAL BUILDING CODE
IFGC - INTERNATIONAL FUEL GAS CODE
IFC - INTERNATIONAL FIRE CODE
IMC - INTERNATIONAL MECHANICAL CODE
IPC - INTERNATIONAL PLUMBING CODE
IRC - INTERNATIONAL RESIDENTIAL CODE
NEC - NATIONAL ELECTRIC CODE
UPC - UNIFORM PLUMBING CODE

B. CODE SUMMARY - STATION BUILDING
EXISTING BUILDING CONSTRUCTION TYPE: VB (NO CHANGE TO USE, OCCUPANCY OR EGRESS) BASED ON EXISTING DRAWINGS.
NEW BUILDING CONSTRUCTION OCCUPANCY CLASSIFICATION, SECTION 303.4 ASSEMBLY GROUP A-3
(WAITING SPACE IN TRANSPORTATION TERMINALS)
GROSS WAITING SPACE (INCLUDES VESTIBULES, PASSAGE & PEDESTRIAN BRIDGE) = 4,138 SF.
SECTION 306.3 ASSEMBLY GROUP F-2
(ACCESSORY SPACE IN MECHANICAL AND/OR ELECTRICAL)
GROSS ACCESSORY SPACE (INCLUDES ELECT. RMS., STORAGE, LIFE SAFETY RM. & ELEVA. MACHINE RMS.) = 1,285 SF.
SECTION 311.3 ASSEMBLY GROUP S-2
GROSS ACCESSORY SPACE (INCLUDES JT. CLS.) = 98 SF

NUMBER OF OCCUPANTS: (REFER TO TABLES 1,2 & 3 ON G-002)
- WAITING AREA = 278 OCCUPANTS
- ACCESSORY = 8 OCCUPANTS

TOTAL NO. OF OCCUPANTS = 286

C. PLUMBING FIXTURE COUNTS (CODE AND DESIGNATION) PER TABLE 2902.1
N/A
AUTOMATIC SPRINKLER SYSTEMS: NO
FIRE ALARM SYSTEMS: YES
PARKING SPACE ANALYSIS PER TABLE 1106.1
NOT REQUIRED

D. EGRESS REQUIREMENTS FOR PLATFORM:
1. THE MAXIMUM TRAVEL DISTANCE ON THE PLATFORM TO A POINT AT WHICH A MEANS OF EGRESS ROUTE LEAVES THE PLATFORM SHALL NOT EXCEED 325'. PROPOSED MAXIMUM = 293'.
2. A COMMON PATH OF TRAVEL FROM THE ENDS OF THE PLATFORM SHALL NOT EXCEED 82' OR ONE CAR LENGTH, WHICHEVER IS GREATER. PROPOSED COMMON PATH = 0'-0" AT BOTH ENDS
3. AT LEAST TWO MEANS OF EGRESS REMOTE FROM EACH OTHER SHALL BE PROVIDED FROM EACH STATION PLATFORM.
4. A MINIMUM OF 44" SHALL BE PROVIDED ALONG ALL PLATFORMS, CORRIDORS, AND RAMPS SERVING AS A MEANS OF EGRESS.
5. STAIRS IN THE MEANS OF EGRESS SHALL BE A MINIMUM OF 44" WIDE. PROPOSED STAIR WIDTH = 6'-2 1/2" CLEAR

E. TOLERANCE NOTES:
NOTES ON THE ACCESSIBLE STATIONS DEVELOPMENT PROGRAM:
1. IT IS THE EXPRESS PURPOSE OF ALL WORK UNDER THIS CONTRACT TO BRING THE STATION INTO COMPLIANCE WITH THE 2006 DEPARTMENT OF TRANSPORTATION ACCESSIBILITY STANDARDS (DOTAS)
2. IT SHALL BE THE DUTY OF THE CONTRACTOR TO PROMPTLY NOTIFY THE PROGRAM ENGINEER OF ANY CONDITION WHERE IT IS NOT POSSIBLE TO COMPLY WITH THE DESIGN FIELD CONDITIONS
3. ALL WORK THAT FAILS TO COMPLY WITH THE DESIGN INTENT GIVEN IN THE CONTRACT DOCUMENTS SHALL BE REPLACED AT NO ADDITIONAL COST BY THE CONTRACTOR.

F. DIMENSIONING NOTES:
1. DIMENSIONS INDICATED AS "HOLD" ARE CRITICAL FOR DOTAS COMPLIANCE AND MAY NOT BE REDUCED OR ENLARGED.
2. DIMENSIONS INDICATED AS "MIN" ARE CRITICAL FOR DOTAS COMPLIANCE AND MAY NOT BE REDUCED.
3. DIMENSIONS INDICATED AS "MAX" ARE CRITICAL FOR DOTAS COMPLIANCE AND MAY NOT BE ENLARGED.
4. ANY DEVIATION FROM ITEMS 1 THROUGH 3 ABOVE MUST BE APPROVED PRIOR TO CONSTRUCTION.

G. TYPICAL GRADING NOTES:
1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMONSTRATE THAT ALL ROUGH GRADING AND FORMWORK WILL RESULT IN FINISHED GRADES THAT COMPLY WITH THE CONSTRUCTION TOLERANCES LISTED IN THIS SECTION.
2. THE CONTRACTOR SHALL USE THE FOLLOWING CRITERIA AT ALL NEW PAVED AREAS.
3. WALKWAYS:
   a. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 1:22 (4.5%).
   b. MAXIMUM CROSS SLOPE SHALL NOT EXCEED 1:60 (1.67%).
4. RAMPS, STAIRS, AND LANDINGS:
   a. MAXIMUM SLOPE AT STAIR TREADS AND LANDINGS SHALL NOT EXCEED 1:60 (1.67%) IN ANY DIRECTION.
   b. MAXIMUM RUNNING SLOPE AT RAMPS SHALL NOT EXCEED 1:13 (7.69%).
   c. MAXIMUM CROSS SLOPES AT RAMPS SHALL NOT EXCEED 1:60 (1.67%).
5. MAXIMUM SLOPE AT ADA PARKING STALLS SHALL NOT EXCEED 1:60 (1.67%) IN ANY DIRECTION.
6. CONTRACTOR SHALL ADJUST DIMENSIONS AS REQUIRED IN THE FIELD SUCH THAT TOLERANCES AS STATED ABOVE ARE ACHIEVED AND EDGES AT ALL TRANSITIONS BETWEEN NEW AND EXISTING PAVEMENTS OR SIDEWALKS SHALL BE FULL THICKNESS AND SET FLUSH WITH EXISTING PAVEMENT OR SIDEWALKS AND MEET THE ABOVE CRITERIA.
7. IF THESE TOLERANCES CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS DISCREPANCIES, CONTRACTOR SHALL NOTIFY PROJECT ENGINEER IMMEDIATELY.

H. GENERAL NOTES:
1. DRAWINGS ARE NOT TO BE SCALED. USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE AUTHORITY. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED.
2. ALL WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS "EXISTING TO REMAIN".
3. ALL WORK MUST BE COORDINATED WITH THE AMTRAK STATION PERSONNEL SO AS NOT TO INTERFERE WITH THE NORMAL OPERATIONS OF THE EXISTING FACILITIES.
4. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES UNDER THIS CONTRACT.
5. THE CONTRACTOR SHALL DISCONNECT AND/OR REMOVE EXISTING PLUMBING, ELECTRICAL FIXTURES, WIRE, CONDUITS, DUCTWORK, OR OTHER WORK WHICH MIGHT INTERFERE WITH THE WORK OF THIS CONTRACT. AFTER NEW WORK IS COMPLETED, THE DISCONNECTED OR REMOVED ITEMS SHALL BE REINSTALLED BY THE CONTRACTOR AT THE SAME LOCATION UNLESS DIRECTED OTHERWISE. FURNISH NEW MATERIALS AND HARDWARE AS REQUIRED FOR COMPLETION OF WORK.
6. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WORK DAMAGED DUE TO THIS CONTRACT. ALL NEWLY INSTALLED TO COVER THE ENTIRE HORIZONTAL OR VERTICAL SURFACE TO THE CLOSEST CORNER IN ALL FOUR DIRECTIONS. COLOR TO MATCH EXISTING CONDITIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.
8. THE CONTRACTOR SHALL INCLUDE ALL PREPARATORY AND ASSOCIATED SUPPLEMENTARY WORK TO PROVIDE A COMPLETE AND FINISHED INSTALLATION.
9. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON DRAWINGS, IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL.
10. FIRESTOPPING SHALL BE INSTALLED AT ALL PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
11. SIZE OF MASONRY UNITS AND WOOD MEMBERS ON PLANS, BUILDING ELEVATIONS AND SECTIONS ARE SHOWN AS NOMINAL SIZE.
12. DIMENSIONS ON PLANS ARE INDICATED FROM SURFACE TO SURFACE BETWEEN WALLS, PARTITIONS AND OTHER ITEMS EXCLUSIVE OF FINISHES.
13. THE CONTRACTOR SHALL KEEP WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE AND SHALL HAVE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS FROM ENTRY BY UNAUTHORIZED PARTIES. SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
14. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
15. THERE WILL BE NO CHANGE IN USE, EGRESS OR OCCUPANCY BECAUSE OF THE WORK OF THIS CONTRACT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

DRAWN BY JR | PLANS CK'D. DK

CODE SUMMARY & GENERAL NOTES

SHEET G-001

PRE_168

8

8

CODE DATA AND SCHEDULES

STATE PROJECT NUMBER

1000-57-05

TABLE 1 - EAST TOWER - EGRESS/OCCUPANCY

RM. #	ROOM/SPACE	RM. AREA	OCCUPANCY	OCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCU-PANT LOAD	MAX. PERMITTED COMMON EGRESS TRAVEL (WITHOUT SPRINKLER SYSTEM)	LONGEST COMMON PATH OF EGRESS TRAVEL	EGRESS CAPACITY FACTOR PER OCCUPANT	MIN. WIDTH OF DOOR(S) REQ'D	# OF DOOR(S) PROVIDED	WIDTH OF DOOR(S) PROVIDED	TOTAL DOOR WIDTH PROVIDED	NOTES
100	PASSAGE	745 SF	WAITING	A-3	15 GROSS	50	75'	21'	0.2 "	9.93 "	-	-	-	
101	VESTIBULE	615 SF	WAITING	A-3	15 GROSS	41	75'	23'	0.2 "	8.20 "	-	-	-	
103	ELECT. RM.	167 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.11 "	2	34 "	68 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
104	JT. CL.	76 SF	ACCESSORY	S-2	300 GROSS	1	100'		0.2 "	0.05 "	2	34 "	68 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
105	LIFE SAFETY RM.	122 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.08 "	2	34 "	68 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
300	ELEV. MACHINE RM.	377 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.25 "	1	34 "	34 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
					TOTAL:	95								

TABLE 2 - WEST TOWER - EGRESS/OCCUPANCY

RM. #	ROOM /SPACE	RM. AREA	OCCUPANCY	OCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCU-PANT LOAD	MAX. PERMITTED COMMON EGRESS TRAVEL (WITHOUT SPRINKLER SYSTEM)	LONGEST COMMON PATH OF EGRESS TRAVEL	EGRESS CAPACITY FACTOR PER OCCUPANT	MIN. WIDTH OF DOOR(S) REQ'D	# OF DOOR(S) PROVIDED	WIDTH OF DOOR(S) PROVIDED	TOTAL DOOR WIDTH PROVIDED	NOTES
106	VESTIBULE	605 SF	WAITING	A-3	15 GROSS	40	75'	23'	0.2 "	8.07 "	-	-	-	
108	JT. CL.	22 SF	ACCESSORY	S-2	300 GROSS	1	100'		0.2 "	0.01 "	2	34 "	68 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
109	STORAGE	106 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.07 "	1	34 "	34 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
110	ELECT. RM.	136 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.09 "	1	34 "	34 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
300	ELEV. MACHINE RM.	377 SF	ACCESSORY	F-2	300 GROSS	1	75'		0.2 "	0.25 "	1	34 "	34 "	EGRESS DOOR(S) SERVING NON-PUBLIC SPACES
					TOTAL:	44								

TABLE 3 - BRIDGE LEVEL - EGRESS/OCCUPANCY

RM. #	ROOMSPACE	RM. AREA	OCCUPANCY	OCUPANCY GROUP	OCCUPANT LOAD FACTOR	TOTAL OCCU-PANT LOAD	MAX. PERMITTED COMMON EGRESS TRAVEL (WITHOUT SPRINKLER SYSTEM)	LONGEST COMMON PATH OF EGRESS TRAVEL	EGRESS CAPACITY FACTOR PER OCCUPANT	MIN. WIDTH OF DOOR(S) REQ'D	# OF DOOR(S) PROVIDED	WIDTH OF DOOR(S) PROVIDED	TOTAL DOOR WIDTH PROVIDED	NOTES
201	PEDESTRIAN BRIDGE	2204 SF	WATING	A-3	15 GROSS	147	75'	23'	0.2 "	29.39 "	2	146 "	292 "	PROVIDED DOORWAYS INSTEAD DOORS
					TOTAL:	147								

TABLE 4 - EGRESS DOORS SERVING PUBLIC AREAS

STORY	OCCUPANT LOAD	EGRESS CAPACITY FACTOR PER OCCUPANT	MIN. WIDTH OF DOOR(S) REQ'D	# OF DOOR(S) PROVIDED	WIDTH OF DOOR(S) PROVIDED	WIDTH OF DOOR(S) PROVIDED
TRACK LEVEL - WEST						
FROM BRIDGE LEVEL	74					
FROM TRACK LEVEL - WEST	44					
TOTAL	118	0.20	23.5 "	2	34 "	68 "
TRACK LEVEL - EAST						
FROM BRIDGE LEVEL	74					
FROM TRACK LEVEL - EAST	95					
TOTAL	169	0.20	33.7 "	2	34 "	68 "

TABLE 5 - EGRESS STAIRWAYS

STORY	OCCUPANT LOAD	EGRESS CAPACITY FACTOR PER OCCUPANT	REQ'D EGRESS CAPACITY	# OF STAIR(S) PROVIDED	WIDTH PER STAIRWAY PROVIDED	TOTAL STRIRWAY (S) WIDTH PROVIDED
BRDGE LEVEL	147	0.3	44.1 "	2	60 "	120 "

TABLE 6 - ACCESS TRAVEL DISTANCE

ROOM/SPACE	OCCUPANT GROUP	MAXIMUM EXIT ACCESS TRAVEL DISTANCE PERMITTED (WITHOUT SPRINKLER SYSTEM)	MAXIMUM EXIT ACCESS TRAVEL DISTANCE PROPOSED	
BRIDGE	A-3	200'	168 '	SEE TABLE 7 FOR MAX. EXIT TRAVEL PRPOSED DISTANCE CALC.
WEST VESTIBULE	A-3	200'	<<200 '	
EAST VESTIBULE	A-3	200'	<<200 '	
ELECT., LIFESAFETY AND STORAGE RMS.	F-2	300'	<<300 '	
JANITOR CLOSETS	S-2	300'	<<300 '	

TABLE 7

SPACE/ROOM	EXIT TRAVEL DISTANCE
BRIDGE LEVEL	63 '
ALOGN STAIR NOSING LINE	11 '
	10 '
	11 '
	10 '
STAIR INTERMEDIATE LANDING	14 '
	14 '
	14 '
TRACK LEVEL	21 '
TOTAL	168 '

NO.	DATE	REVISION	BY

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CODE DATA & SCHEDULES

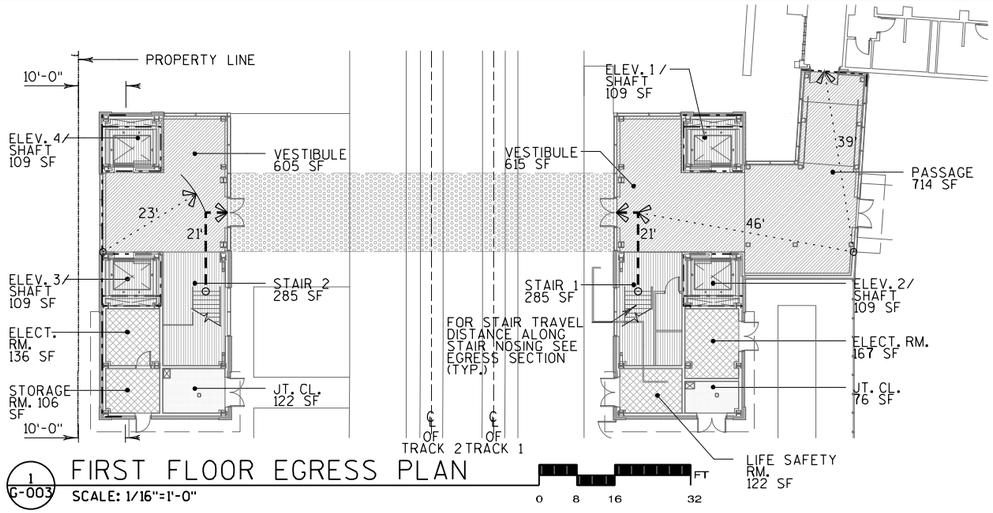
SHEET G-002

PRE_169

8

8

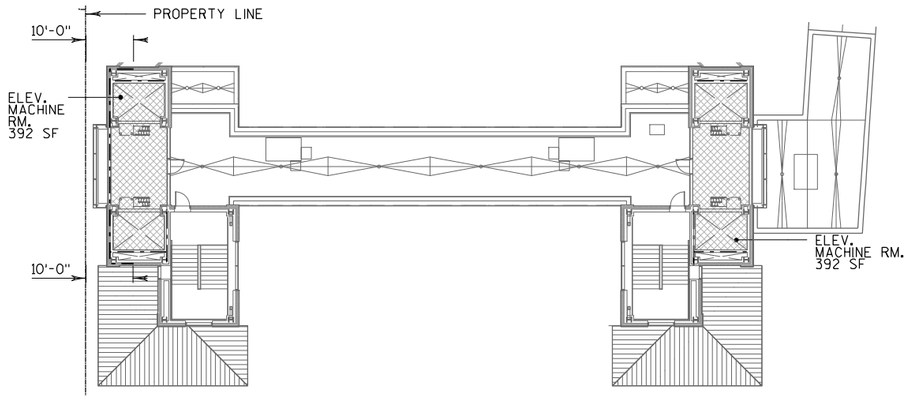
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PLOT TIME: $$...plottingtime...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$



1 G-003 FIRST FLOOR EGRESS PLAN

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

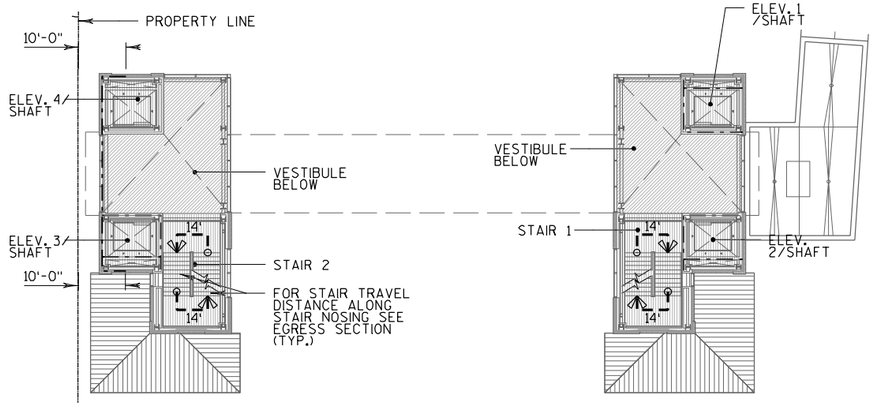
0 8 16 32 FT



4 G-003 PEDESTRIAN BRIDGE ROOF EGRESS PLAN

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

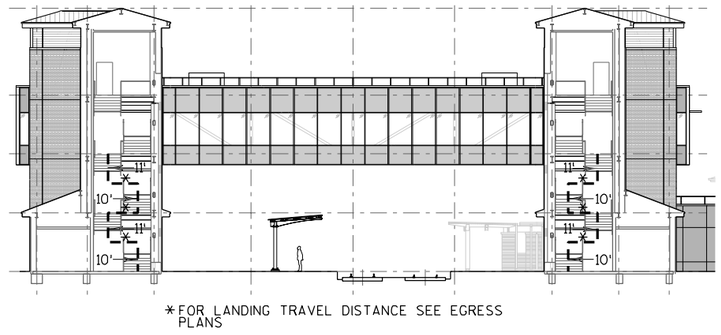
0 8 16 32 FT



2 G-003 INTERMEDIATE LEVEL EGRESS PLAN

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

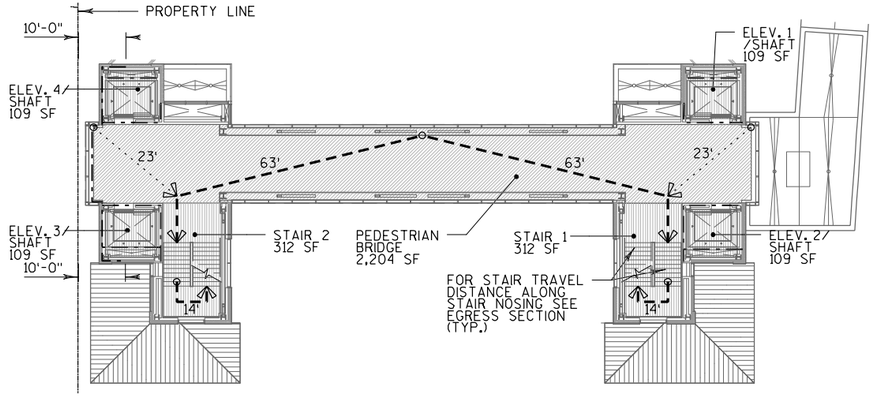
0 8 16 32 FT



5 G-003 EGRESS SECTION

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

0 8 16 32 FT



3 G-003 SECOND FLOOR EGRESS PLAN

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

0 8 16 32 FT

STATE PROJECT NUMBER

1000-57-05

LEGEND:

- OCCUPANCY GROUP A-3 (OCCUPIED PORTION)
- OCCUPANCY GROUP A-3 (CIRCULATION)
- OCCUPANCY GROUP F-2
- OCCUPANCY GROUP S-2
- AREA WITHOUT SURROUNDING WALLS, WITHIN HORIZONTAL PROJECTION OF FLOOR ABOVE
- EXIT ACCESS TRAVEL
- COMMON PATH OF EGRESS TRAVEL
- 1-HOUR EXTERIOR WALL OR FIRE BARRIER
- 2-HOUR FIRE WALL

GENERAL NOTES:

1. SEE DRAWING G-XXX FOR FLOOR AREAS
2. REGARDING TO INTERMEDIATE LEVEL FLOOR AREATHERE IS NO FLOOR AREA AT THIS LEVEL. ALL SPACES ARE OPEN TO OCCUPIED SPACES AT THE LEVEL BELOW, OR ARE SHAFTS WITH NO OPENINGS AT THIS LEVEL.

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EGRESS PLANS AND CALCULATION

SHEET G-003
PRE_170

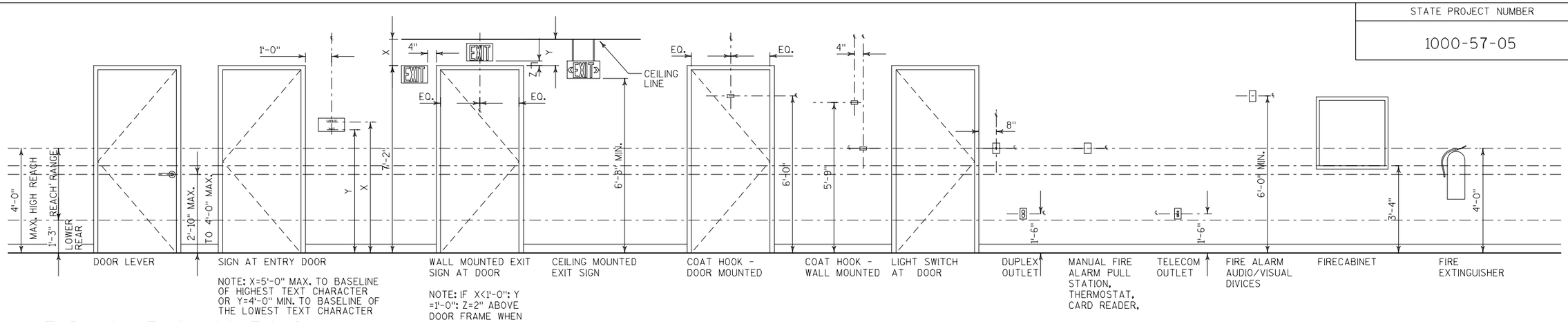
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8

BATCH PRINT SHEET CSD OF NSD
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PEN TABLE: $$...pentable...$$
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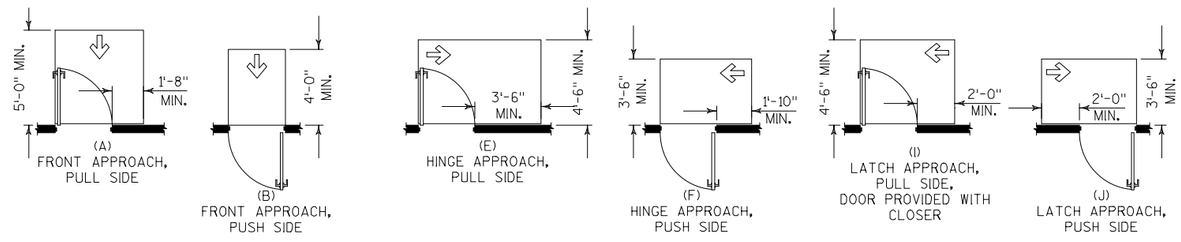
STATE PROJECT NUMBER

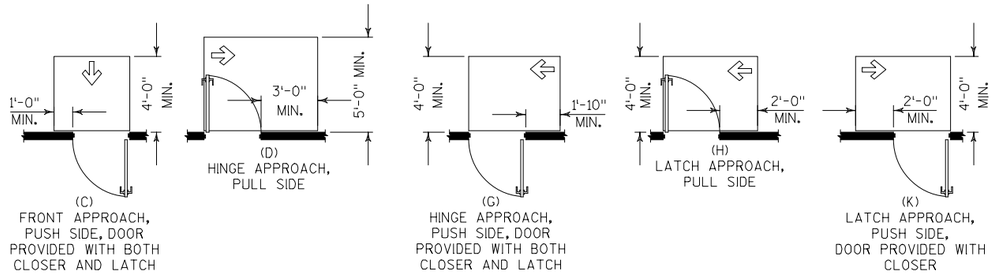
1000-57-05



1 G-006 TYP. MOUNTING LOCATIONS

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





2 G-006 CLEARANCES AT MANUAL SWINGING DOOR

SCALE: 1/4"=1'-0"

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

BATCH PRINT SHEET CSD OF NSD

8

8

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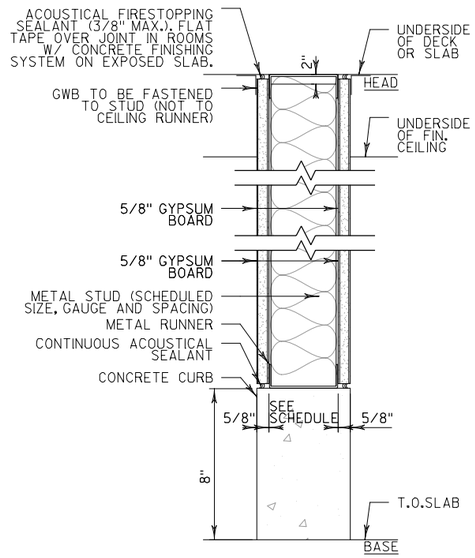
ACCESSIBILITY REQUIREMENTS (ADA)

SHEET G-006

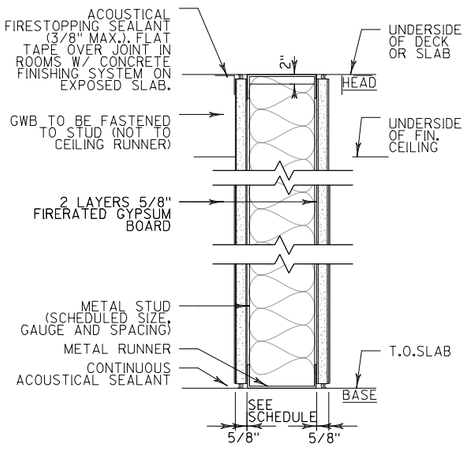
PRE_171

STATE PROJECT NUMBER

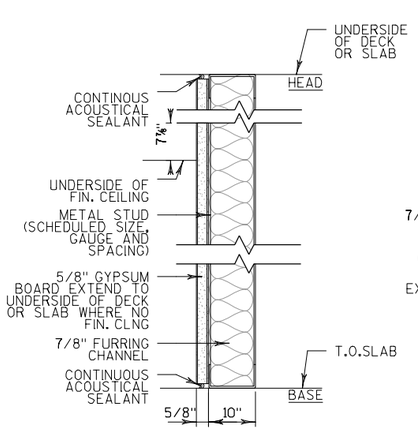
1000-57-05



1 PARTITION TO SLAB ABOVE
SCALE: 3"=1'-0"

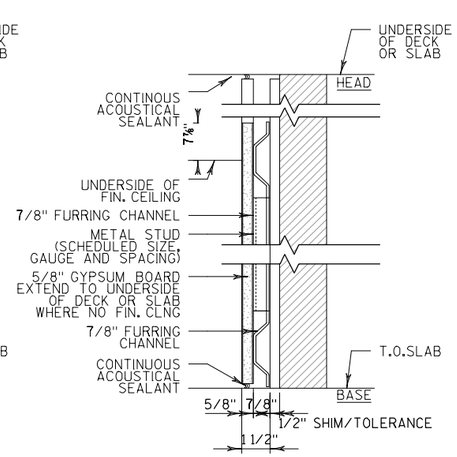


2 PARTITION TO SLAB ABOVE
SCALE: 3"=1'-0"



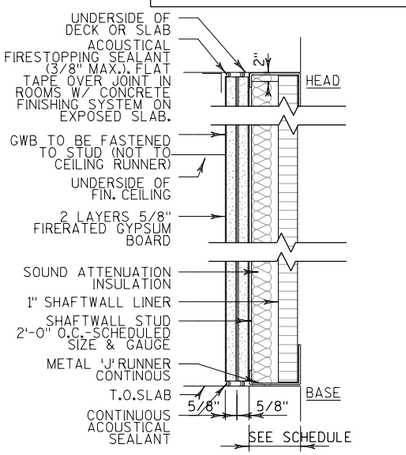
METAL STUD (SCHEDULED SIZE, GAUGE AND SPACING)

3 2 1/2" STUD FURR-OUT TO SLAB ABOVE
SCALE: 3"=1'-0"



METAL STUD (SCHEDULED SIZE, GAUGE AND SPACING)

4 7/8" FURR-OUT
SCALE: 3"=1'-0"



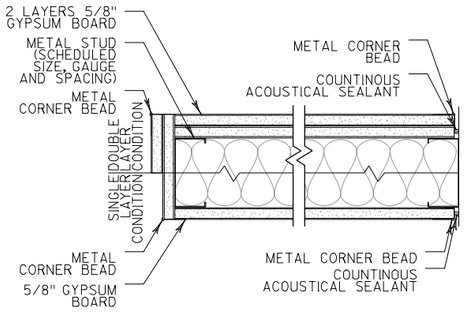
* ACCEPTABLE U.L. H.O.W. ASSEMBLY: HW-D-0194

5R 2HR RATED SHAFWALL PARTITION
SCALE: 3"=1'-0"

TYPICLA PARTITION TYPES & DETAILS

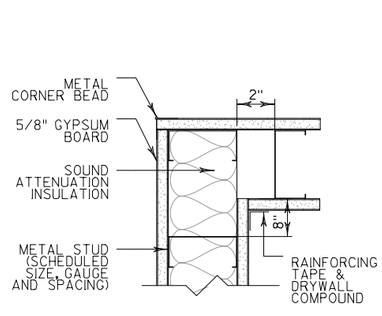
2 / G-010

SCALE: 1/4"=1'-0"

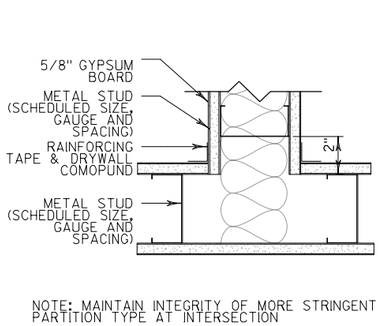


1 PLAN DETAIL
PART. TERMINAL OR FIN. OPNG

2 PLAN DETAIL
DRYWALL PERIMETER RELIEF @ MASONRY OR CONC.WALL

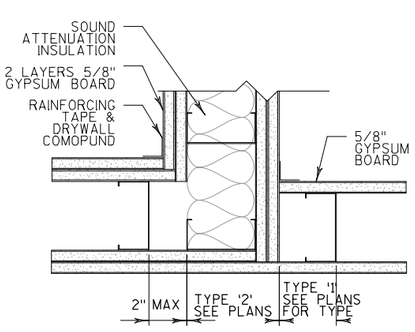


3 PLAN DETAIL
DETAIL AT CHANGE PARTITION TYPES

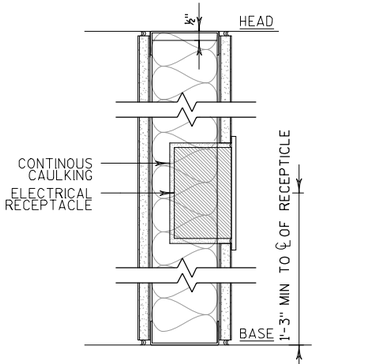


NOTE: MAINTAIN INTEGRITY OF MORE STRINGENT PARTITION TYPE AT INTERSECTION

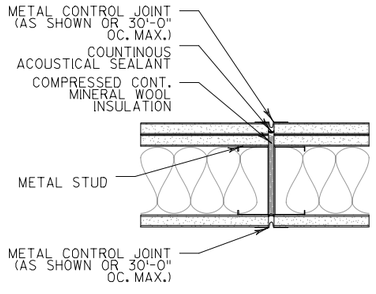
4 PLAN DETAIL
INTERSECTION @ SAME PARTITION TYPES



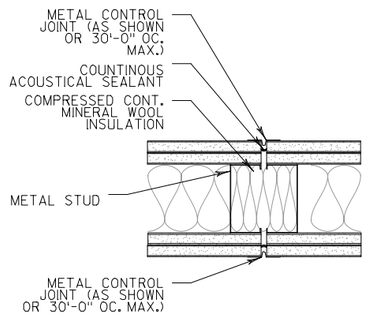
5 PLAN DETAIL
INTERSECTION OF DIFFERENT PARTITION TYPES



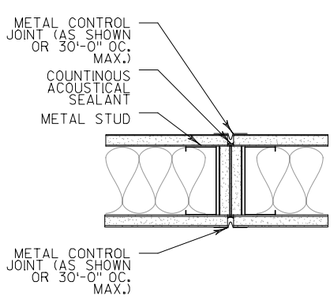
10 DETAIL OF BASE @ ELECTRICAL RECEPTACLES AT DEMISING WALLS ONLY
SCALE: 3"=1'-0"



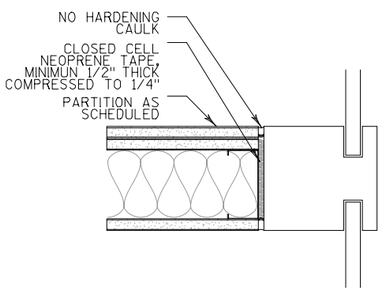
6 PLAN DETAIL
DRYWALL CONTROL JOINT @ TYPE 3 PARTITIONS



7 PLAN DETAIL
DRYWALL CONTROL JOINT @ TYPE 2 PARTITIONS



8 PLAN DETAIL
CONTROL JOINT @ 1HR RATED PARTITIONS



NOTE: IF PARTITION WIDTH IS WIDER THAN MULLION, ADDITIONAL MULLION COVER PIECE MAY BE REQUIRED TO ENSURE A SOLID SURFACE TO FORM A TIGHT SEAL TO PARTITION

9 PLAN DETAIL
DEMISING PARTITION MULLION CONNECTION

TYPICAL DETAILS - DRYWALL PARTITIONS

1 / G-010

SCALE: 1/4"=1'-0"

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PARTITION TYPE

SHEET G-010
PRE_172

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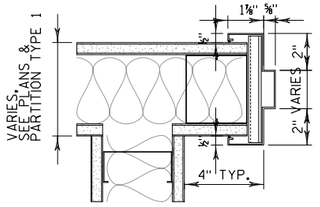
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PEN TABLE: $$...pentable...$$
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BATCH PRINT SHEET CSD OF NSD

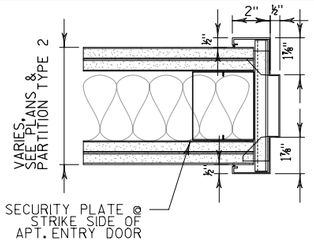
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PLOT DATE: $$...plottingdate...$$ BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

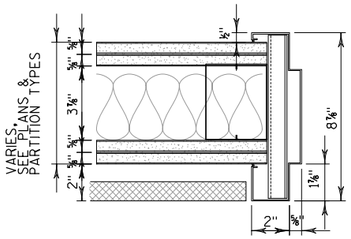
1000-57-05



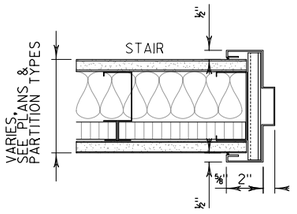
J1 JAMB DETAIL @ NONRATED AND 1 HR RATED PARTITIONS (HEAD DETAIL IS SIMILAR)



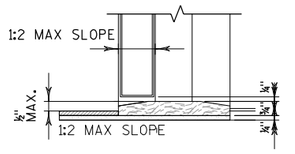
J2 JAMB DETAIL @ CORRIDOR SIDE (HEAD DETAIL IS SIMILAR)



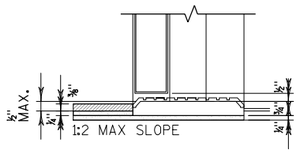
J3 JAMB DETAIL @ CORRIDOR SIDE (HEAD DETAIL IS SIMILAR)



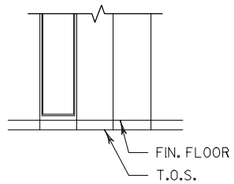
J4 JAMB DETAIL @ CORRIDOR SIDE (HEAD DETAIL IS SIMILAR)



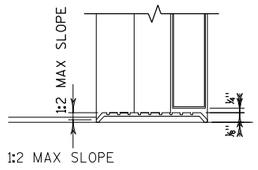
S1 STONE SADDLE @ THIN SET TILE OR TILE TO CONC.



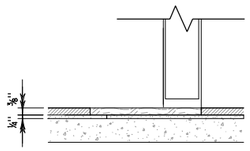
S2 ALUMINUM SADDLE @ TILE TO CONC.



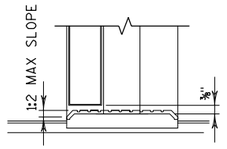
S3 NO SADDLE FLOOR FINISH RUNS THRU



S4 EXTRUDED ALUMINUM SADDLE @ WOOD TO TILE



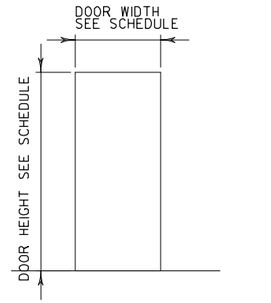
S5 TILE SADDLE (SEE FINISH SCHEDULE) @ TILE TO TILE



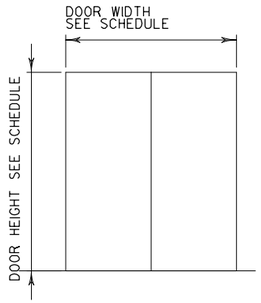
NOTE:
1. ALL SADDLES & THRESHOLDS SHALL COMPLY WITH ADA REQUIREMENTS

S6 ALUMINUM SADDLE @ CONC. TO CONC.

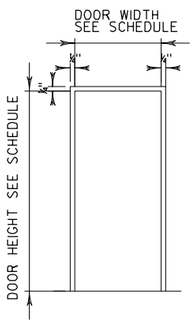
4 G-011 DOOR HEAD & JAMB DETAILS
SCALE: 3"=1'-0"



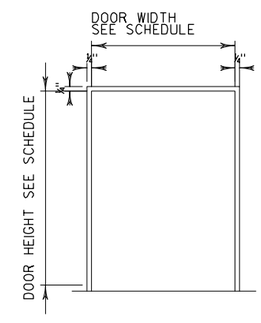
A1 TYPE SINGLE FLUSH DOOR



B1 TYPE DOUBLE FLUSH DOOR



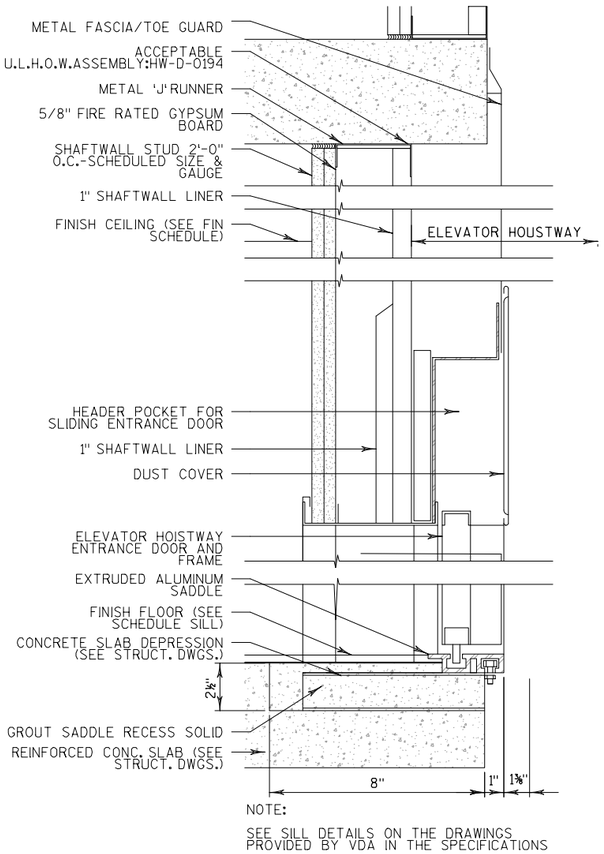
F1 TYPE: SINGLE



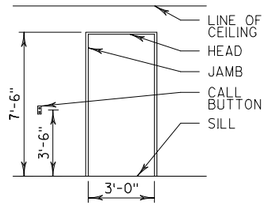
F2 TYPE: DOUBLE

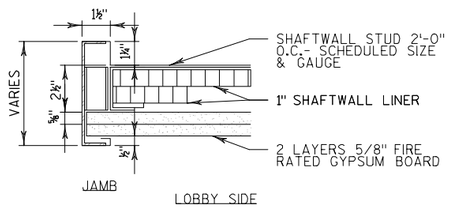
3 G-011 DOOR HEAD TYPES
SCALE: 1/4"=1'-0"

2 G-011 SADDLE TYPES
SCALE: 3"=1'-0"



NOTE:
SEE SILL DETAILS ON THE DRAWINGS PROVIDED BY VDA IN THE SPECIFICATIONS





1 G-011 TYPICAL DETAILS - HOISTWAY
SCALE: 3"=1'-0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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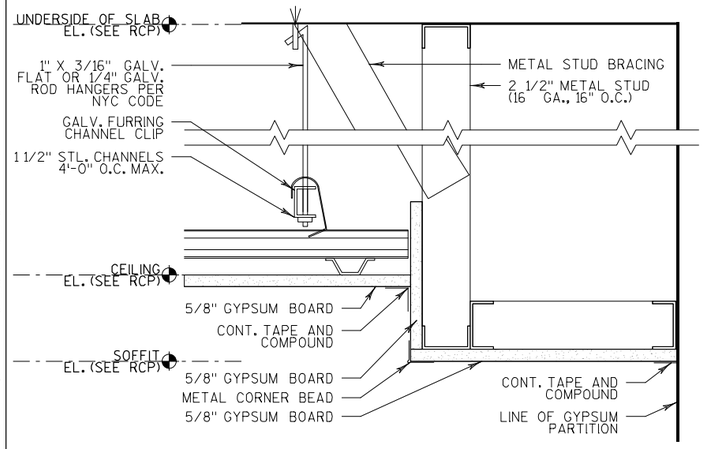
DRAWN BY JR | PLANS CK'D. DK

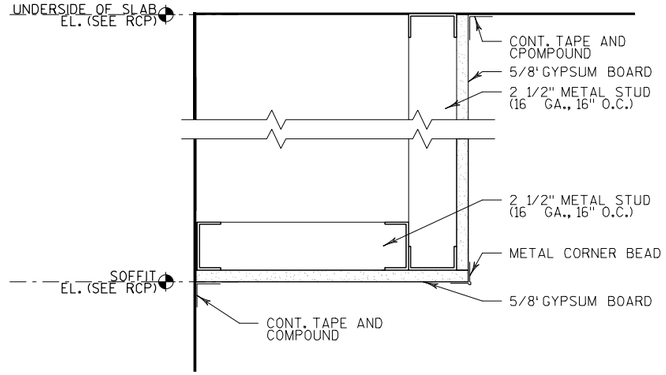
TYPICAL DOOR DETAILS

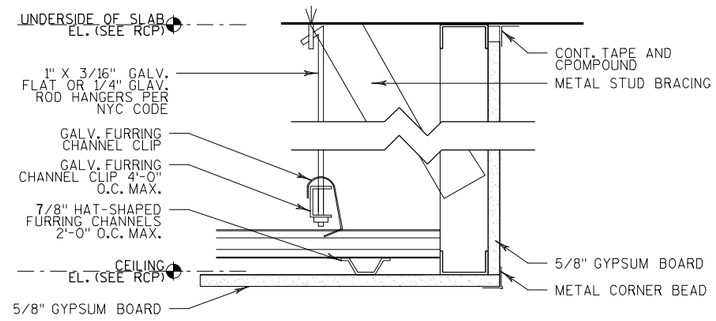
SHEET G-011
PRE_173

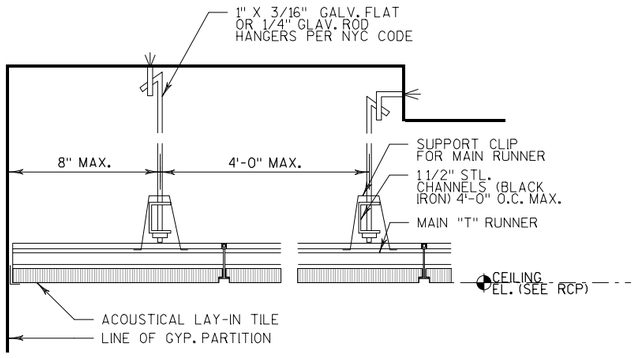
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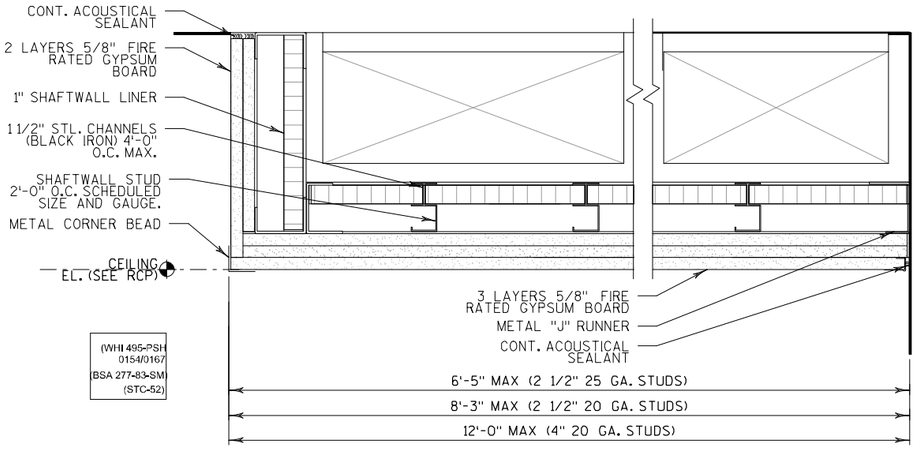
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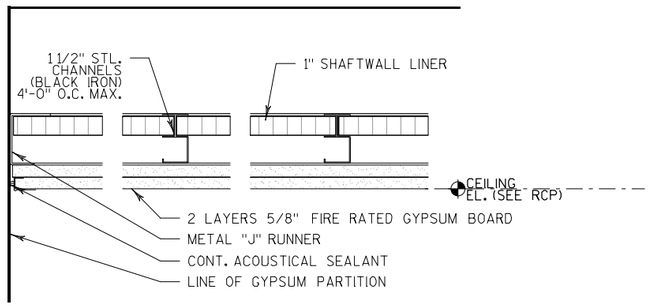








(WHI 495-PSH 0154/0167) (BSA 277-83-SM) (STC-52)



1 / G-012 CEILING TYPES
SCALE: 3"=1'-0"

SCHEDULE FOR PARTITION FRAMING

		DRYWALL PARTITION			FURRING			SHAFTWALL PARTITIONS TYPE @ ELEVATOR HOISTWAYS			SHAFTWALL PARTITIONS TYPE @ STAIRWAYS & MECH SHAFTS		
FLOOR	FLOOR HEIGHT	STUD SIZE L/240	STUD GAUGE	STUD SPACING	STUD SIZE L/240	STUD GAUGE	STUD SPACING	STUD SIZE L/240	STUD GAUGE	STUD SPACING	STUD SIZE L/240	STUD GAUGE	STUD SPACING
PLATFORM	12'-5"	3 5/8"	25	16" O.C.	1 5/8"	25	24" O.C. W/ BRACE @ 1/3 POINTS	4"	CH-20	24" O.C.	2 1/2"	CH-20	16" O.C.
INTERMEDIATE	12'-5"	3 5/8"	25	16" O.C.	1 5/8"	25	24" O.C. W/ BRACE @ 1/3 POINTS	4"	CH-20	24" O.C.	2 1/2"	CH-20	16" O.C.
BRIDGE	12'-5"	3 5/8"	25	16" O.C.	1 5/8"	25	24" O.C. W/ BRACE @ 1/3 POINTS	4"	CH-20	24" O.C.	2 1/2"	CH-20	16" O.C.
ROOF	18'-5"	3 5/8"	25	16" O.C.	1 5/8"	25	24" O.C. W/ BRACE @ 1/3 POINTS	4"	CH-20	24" O.C.	2 1/2"	CH-20	16" O.C.

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CEILING TYPES

SHEET G-012
PRE_174

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

8

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
#	POUND OR NUMBER
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT OR ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMT	AMTRAK
ANOD	ANODIZED
APPROX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ATR	ABOVE TOP OF
AUTO	AUTOMATIC
BD	BOARD
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOC	BOTTOM OF CURB
BOW	BOTTOM OF WALL
BSMT	BASEMENT
BYND	BEYOND
CAB	CABINET
CB	CATCH BASIN
CF	CUBIC FEET
CH	COAT HOOK
CHNL	CHANNEL
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CL. / CLOS.	CLOSET
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT, CASED OPENING
COL	COLUMN
COMPR	COMPRESSIBLE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONV	CONVECTOR
CORR	CORRIDOR
CPT	CARPET
CPU	CENTRAL PROCESSING UNIT
CT	CERAMIC TILE
CTR	CENTER
CTY	COURTYARD
D	DEEP, DEPTH
D.C.	DUST CHUTE
DB. / DISP. B	DISPLAY BOARD
DB.S.	DISPLAY BOARD SURFACE
DBL	DOUBLE
DEMO	DEMOLITION
DEP.	DEPRESSED
DEPT.	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMEMSION
DISP	DISPENSER
DISP CAB	DISPLAY CABINET
DIV	DIVIDE, DIVISION
DN	DOWN
DR	DOOR
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENCL	ENCLOSE, ENCLOSURE
EP	ELECTRIC PANEL
EPDM	ETHYLENE PROPYLENE PROPYLENE DIENE M-CLASS ROOFING

ABBREVIATIONS CONT.

ABBREVIATION	DESCRIPTION
EQ	EQUAL
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION, EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH, FINISHED
FIXT	FIXTURE
FLOUR	FLUORESCENT
FLR	FLOOR, FLOORING
FM	FILLED METAL
FO	FACE OF, FINISH OPENING
FP	FIRE PROTECTION, FIREPROOF
FR	FRAME.FIRE
GA	GAUGE
GALV	GALVANIZED
GB	GLAZED BLOCK
GC	GENERAL CONTRACTOR
GL	GLASS
GR ELEV	GRADE ELEVATION
GV	GAS VALVE
GWB	GYPSUM BOARD
H	HIGH
H.	HIGH
H.P.	HIGH POINT
H.R.	HAND RAIL
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
ILO	IN LIEU OF
INFO	INFORMATION
INSUL	INSULATED
INT	INTERIOR
IRGWB	IMPACT RESISTANT GYPSUM WALL
JT	JOINT
LAV	LAVATORY
LCD	LIQUID
LED	LIGHT EMITTING
LP	LOW POINT
LT	LIGHT
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMBR	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY
MPH	MILES PER
MRGWB	MOISTURE - RESISTANT GYPSUM WALL BOARD
MTD	MOUNTED
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND / OVEREHEAD
OPP	OPPOSITE
OZ	OUNCE
P	PAINT
PCC	PRE-CAST CONCRETE
PLUMB	PLUMBING

ABBREVIATIONS CONT.

ABBREVIATION	DESCRIPTION
PLYD	PLYWOOD
PNT	PRESSURE TREATED POINT OF TANGENT
PSF	POUNDS PER SQUARE FOOT
PT	PAINT / PAINTED
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RADIUS
RAD	RADIATOR
RB	RESILIENT BASE (VINYL OR RUBBER)
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCING
REQ	REQUIRED
RET	RETAINING
RI	RESCUE INTERCOM
RM	ROOM
RO	ROUGH OPENING
RPZ	REDUCED PRESSURE ZONE
RT	RUBBER TILE
RUB	RUBBER
RW	RESILIENT WOOD
SAD	SADDLE
SAN	SANITARY
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPK	SPRINKLER
SS	STAINLESS STEEL
ST PL	STEEL PLATE
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STO	STORAGE
STRUCT	STRUCTURAL
T&G	TONGUE AND GROOVE
T/D	TELEPHONE/DATA
TBD	TO BE DETERMINED
TEL	TELEPHONE
TEMP	TEMPORARY
THK	THICKNESS
TLT	TOILET
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PLATFORM
TOR	TOP OF RAIL
TOS	TOP OF STEEL
TOSB	TOP OF SLAB
TYP	TYPICAL
U/S	UNDERSIDE
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFIY IN FIELD
VIN	VINYL
VOC	VOLATILE ORGANIC COMPOUND
VP	VISION PANEL
W/	WITH
WAINS.	WAINSCOT
WARD	WARDROBE
WC	WATER CLOSET
WD	WOOD
WH	WEEPHOLE
WI	WROUGHT IRON
WM	WIRE MESH
WP	WATERPROOFING
WT.	WEIGHT
WWF	WELDED WIRE FABRIC
WXHXL	WIDTH BY HEIGHT BY LENGTH

SYMBOLS

- COLUMN GRIDLINE (1 / A)
- CENTER LINES (℄)
- MATCH LINE (MATCH LINE SEE X/X-XXX)
- BREAK LINE
- DRAWING REVISION (#)
- EXISTING TO REMAIN
- EXISTING TO BE DEMOLISHED
- NEW WORK
- DOOR NUMBER (#)
- LOUVER NUMBER (L#)
- FINISH SYMBOL (PT-X)
- WALL PARTITION TYPE (#)
- ELECTRICAL PANEL (EP)
- FLOOR DRAIN (FD)
- KEYNOTE (#)
- ACCESSORY (#)
- ROOM TAG (ROOM NAME / ###)
- WINDOW NUMBER (W#)
- SIGNAGE TYPE (#)
- DATUM (ELEVATION EL. X'-X" - N)
- NORTH ARROW SYMBOL
- FIRE ALARM - MANUAL PULL (F)
- FIRE EXTINGUISHER (FE FE)
- FIRE EXTINGUISHER CABINET (FEC FEC)
- WALL-MOUNTED LIGHT
- DOWNLIGHT
- WALL-MOUNTED EXIT LIGHT
- CEILING-MOUNTED EXIT LIGHT
- CEILING HEIGHT INDICATOR (XX'-XX")
- CEILING MOUNTED LIGHTING
- HVAC DIFFUSERS
- HVAC RETURNS
- LINEAR DIFFUSER
- CEILING-MOUNTED ACCESS PANEL
- ROOF DRAIN (RD)

STATE PROJECT NUMBER

1000-57-05

DETAIL DESIGNATOR
ELEVATION DESIGNATION
DRAWING NUMBER OR WHICH DETAIL IS SHOWN

ELEVATION DESIGNATOR
ELEVATION DESIGNATION
DRAWING NUMBER OR WHICH DETAIL IS SHOWN

SECTION DESIGNATOR
ELEVATION DESIGNATION
DRAWING NUMBER OR WHICH DETAIL IS SHOWN

SYMBOLS

- BRICK
- CONCRETE
- CMU
- RIGID INSULATION
- GRAVEL
- EARTH

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ARCHITECTURAL ABBREVIATIONS & SYMBOLS

SHEET A-000

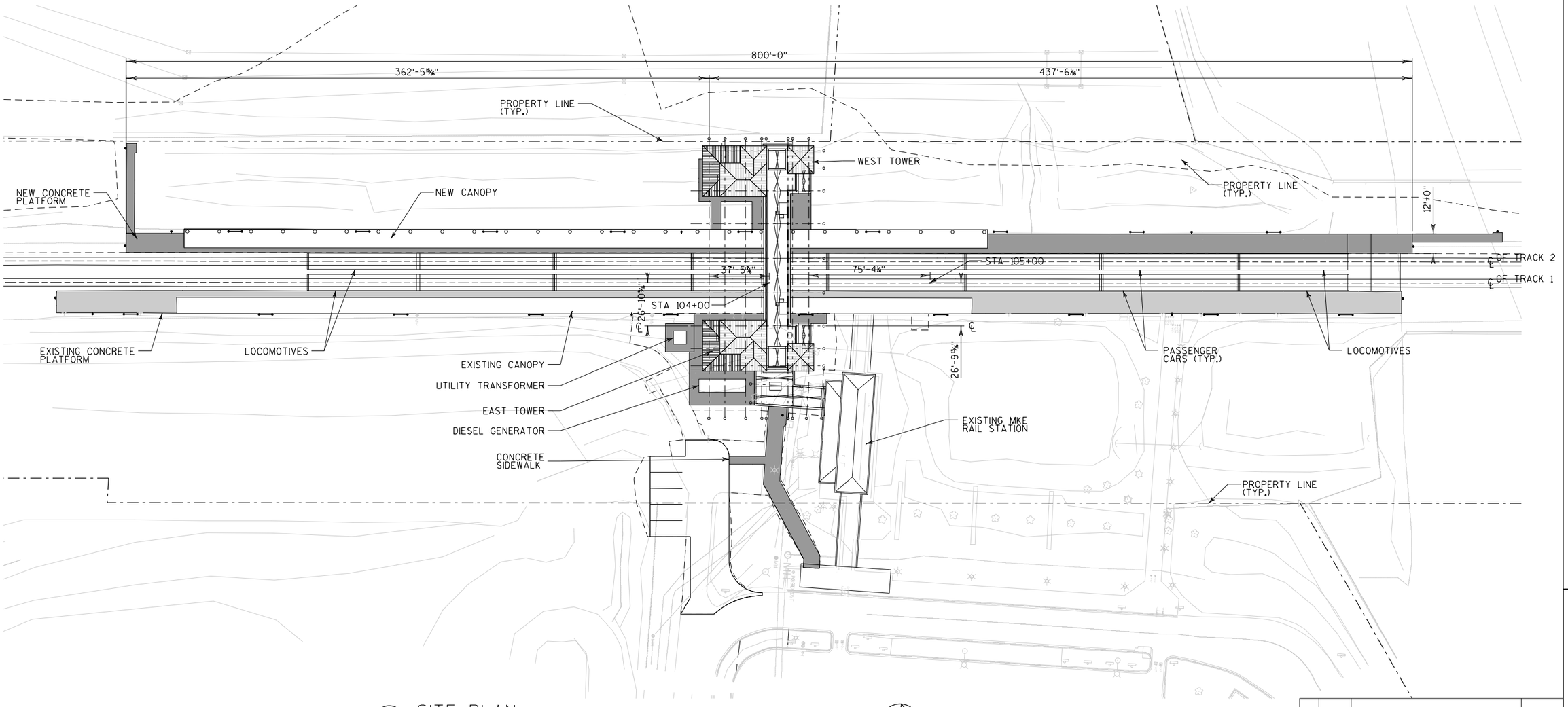
PRE_175

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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER
1000-57-05



1 A-100 SITE PLAN
SCALE: 1/32"=1'-0"

0 16 32 64 FT

N

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SITE PLAN

SHEET A-100
PRE_176

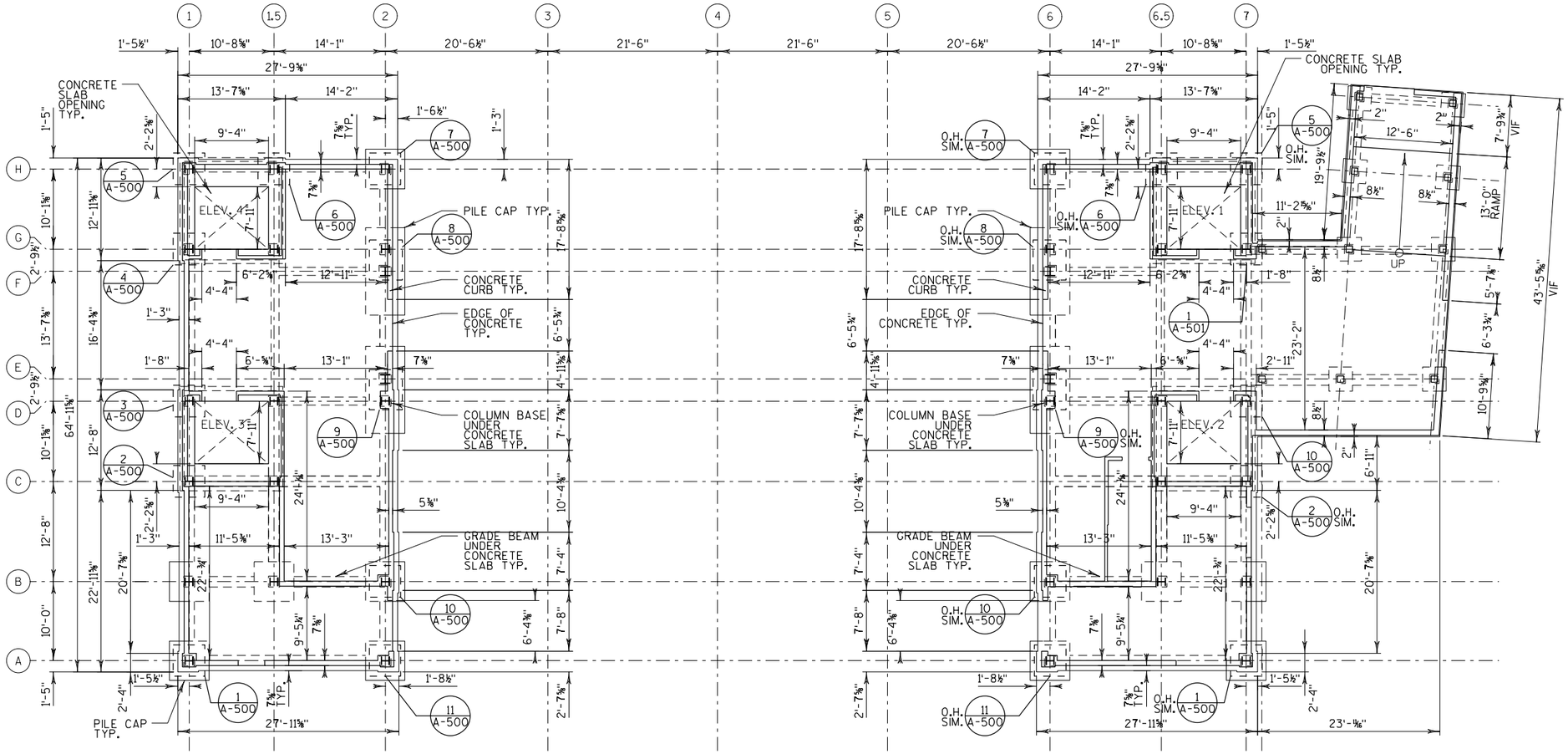
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PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

8

8

STATE PROJECT NUMBER
1000-57-05

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$



1 A-101 FIRST FLOOR SLAB PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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FIRST FLOOR SLAB PLAN

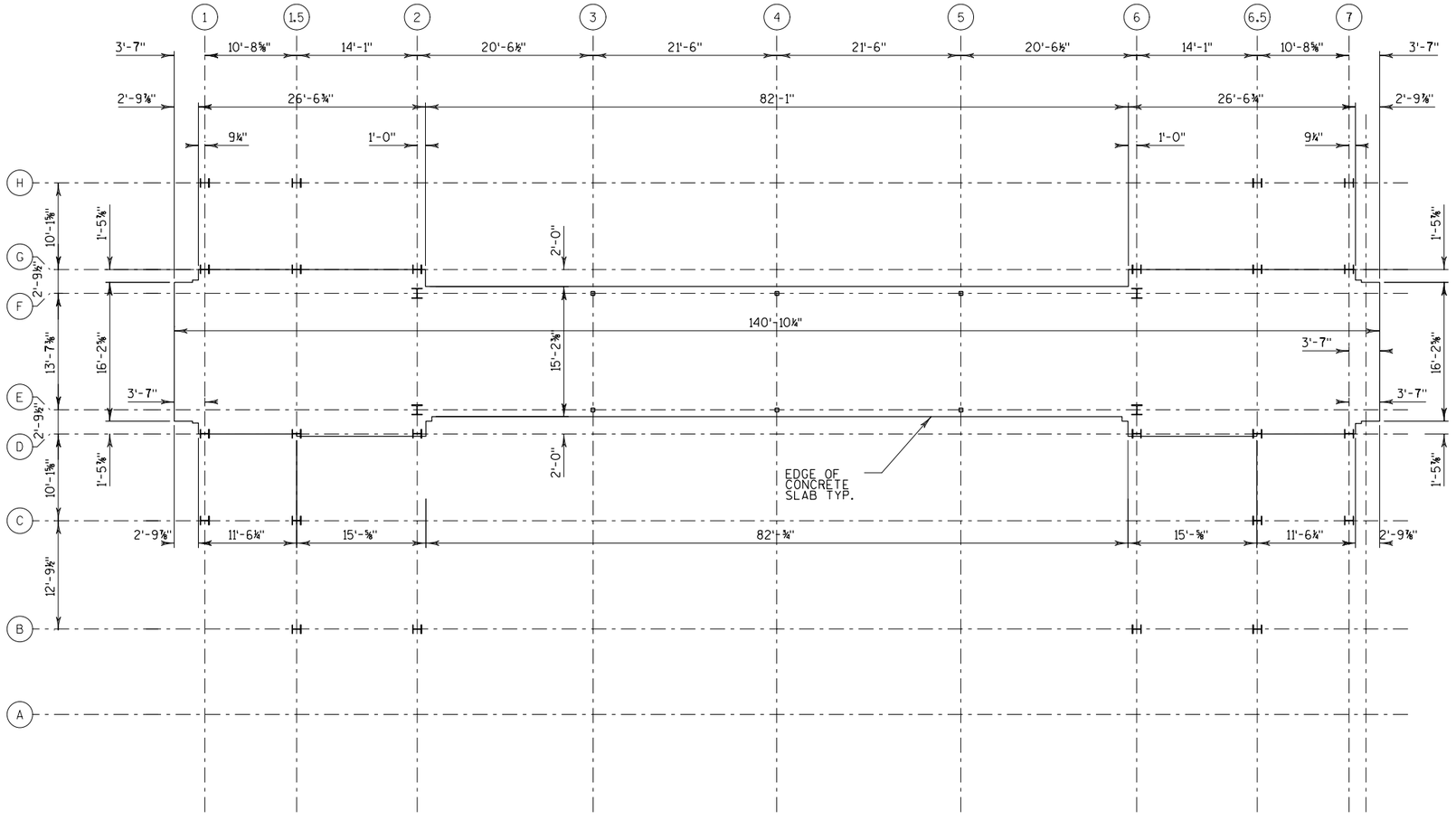
SHEET A-101
PRE_177

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8

STATE PROJECT NUMBER

1000-57-05



1 / A-103 SECOND FLOOR SLAB PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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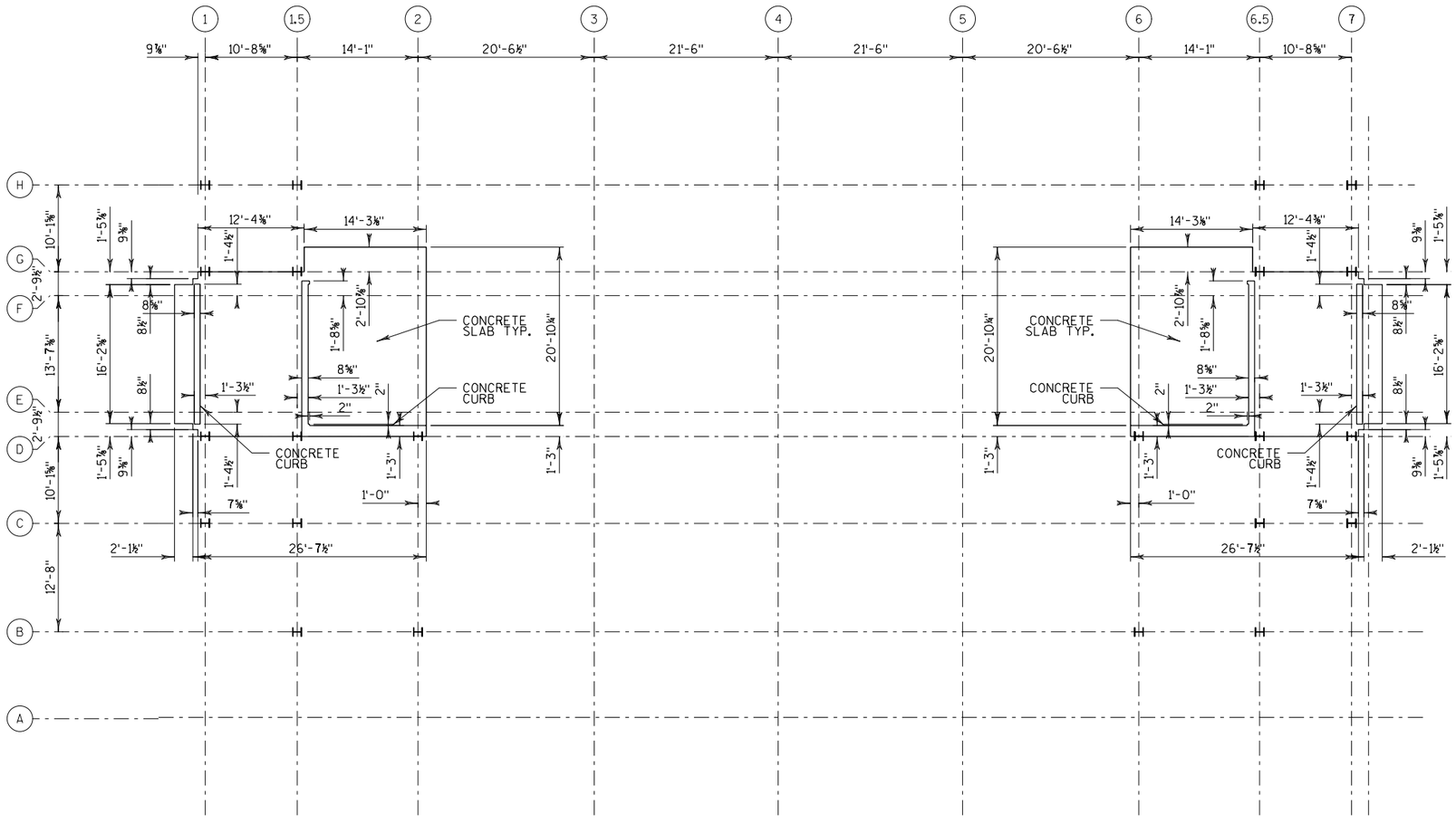
SECOND FLOOR SLAB PLAN

SHEET A-103

PRE_178

STATE PROJECT NUMBER

1000-57-05



1 / A-104 BRIDGE ROOF SLAB PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

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BRIDGE ROOF SLAB PLAN

SHEET A-104

PRE_179

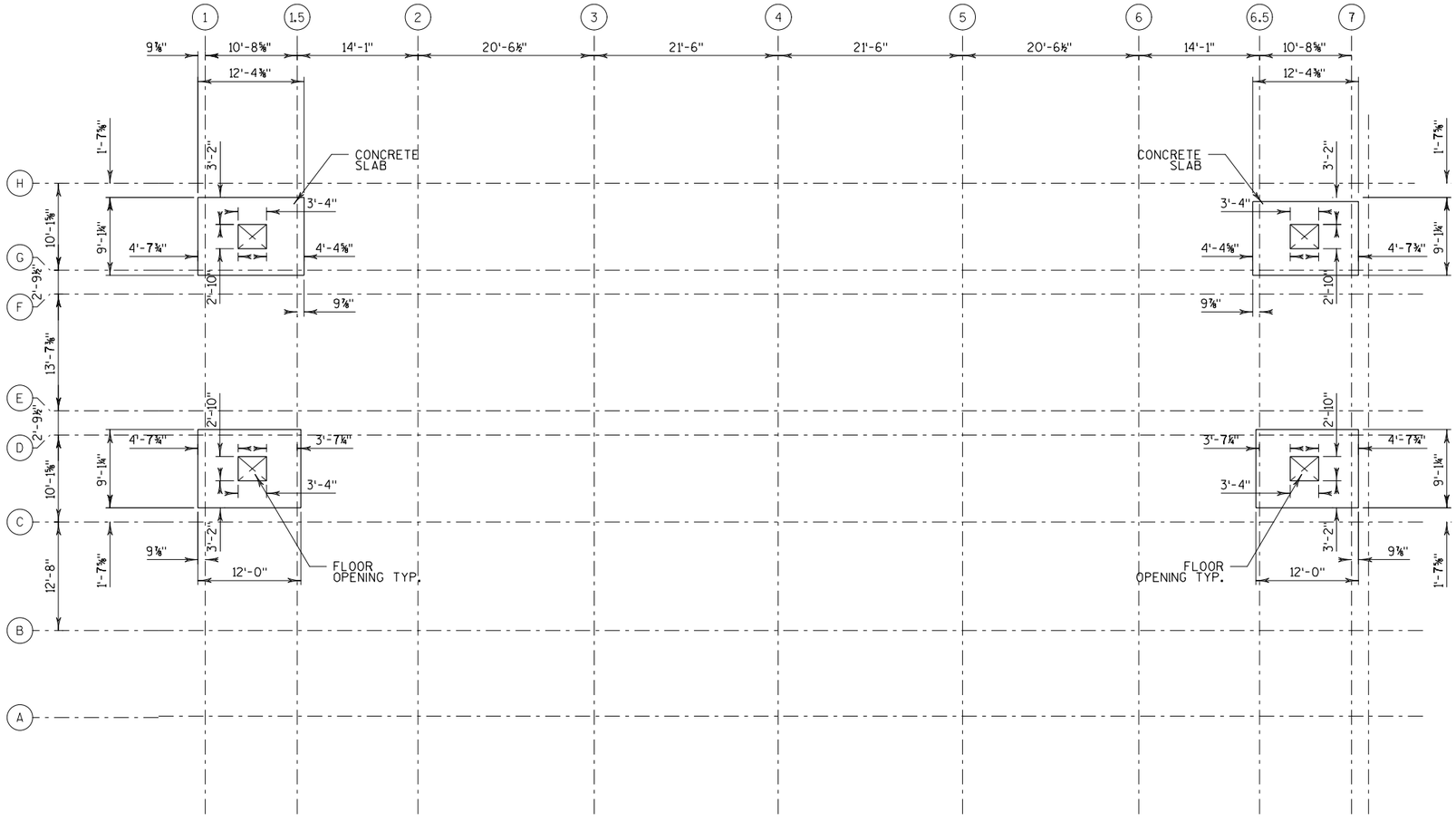
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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

1000-57-05



1 / A-105 ELEVATOR MACHINE RM. SLAB PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

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ARCHITECTURAL

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ELEVATOR MACHINE RM. SLAB PLAN

SHEET A-105

PRE_180

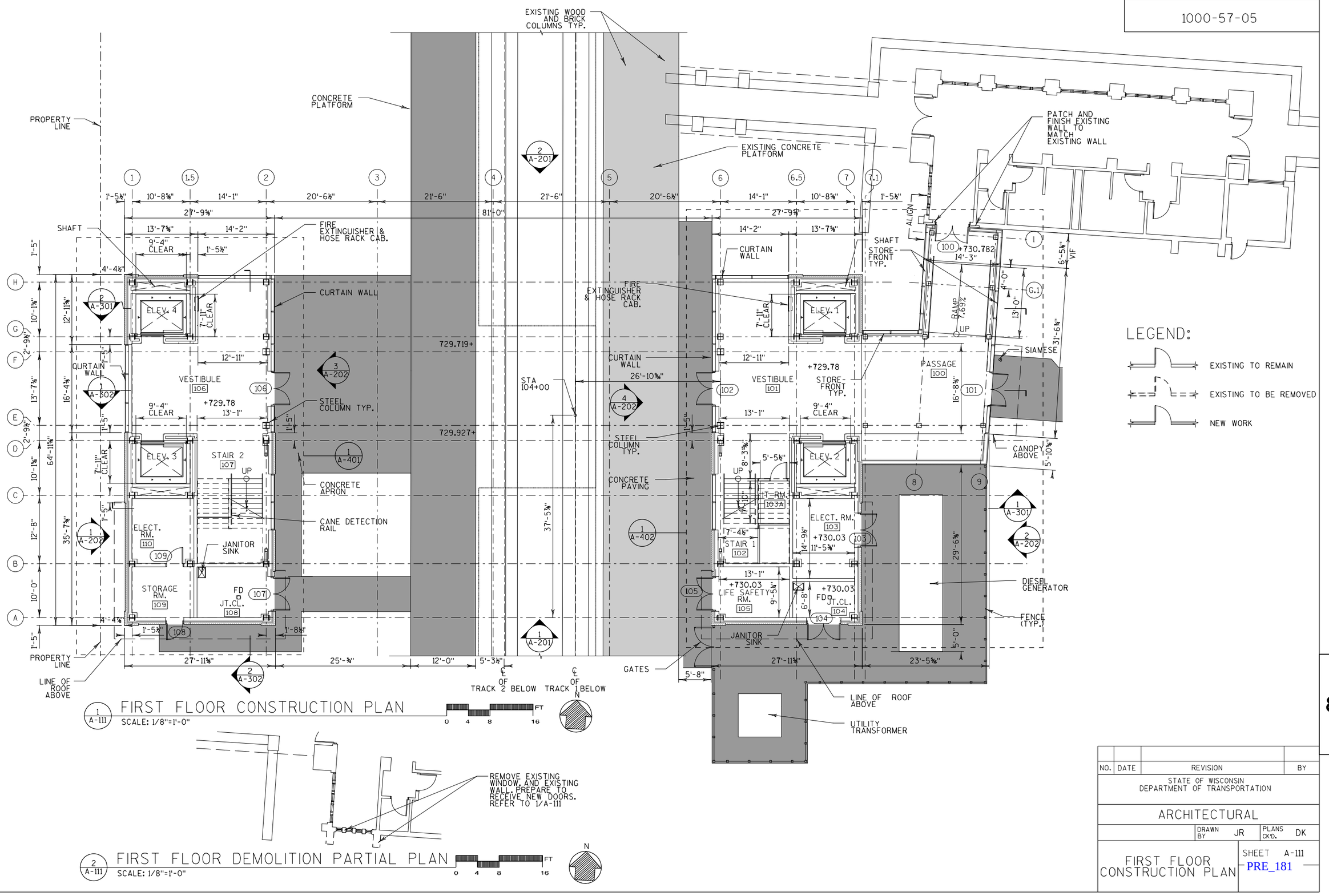
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PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

8

8

STATE PROJECT NUMBER

1000-57-05



1 A-111 FIRST FLOOR CONSTRUCTION PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

2 A-111 FIRST FLOOR DEMOLITION PARTIAL PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

LEGEND:

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW WORK

NO.	DATE	REVISION	BY

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FIRST FLOOR CONSTRUCTION PLAN

SHEET A-111

PRE_181

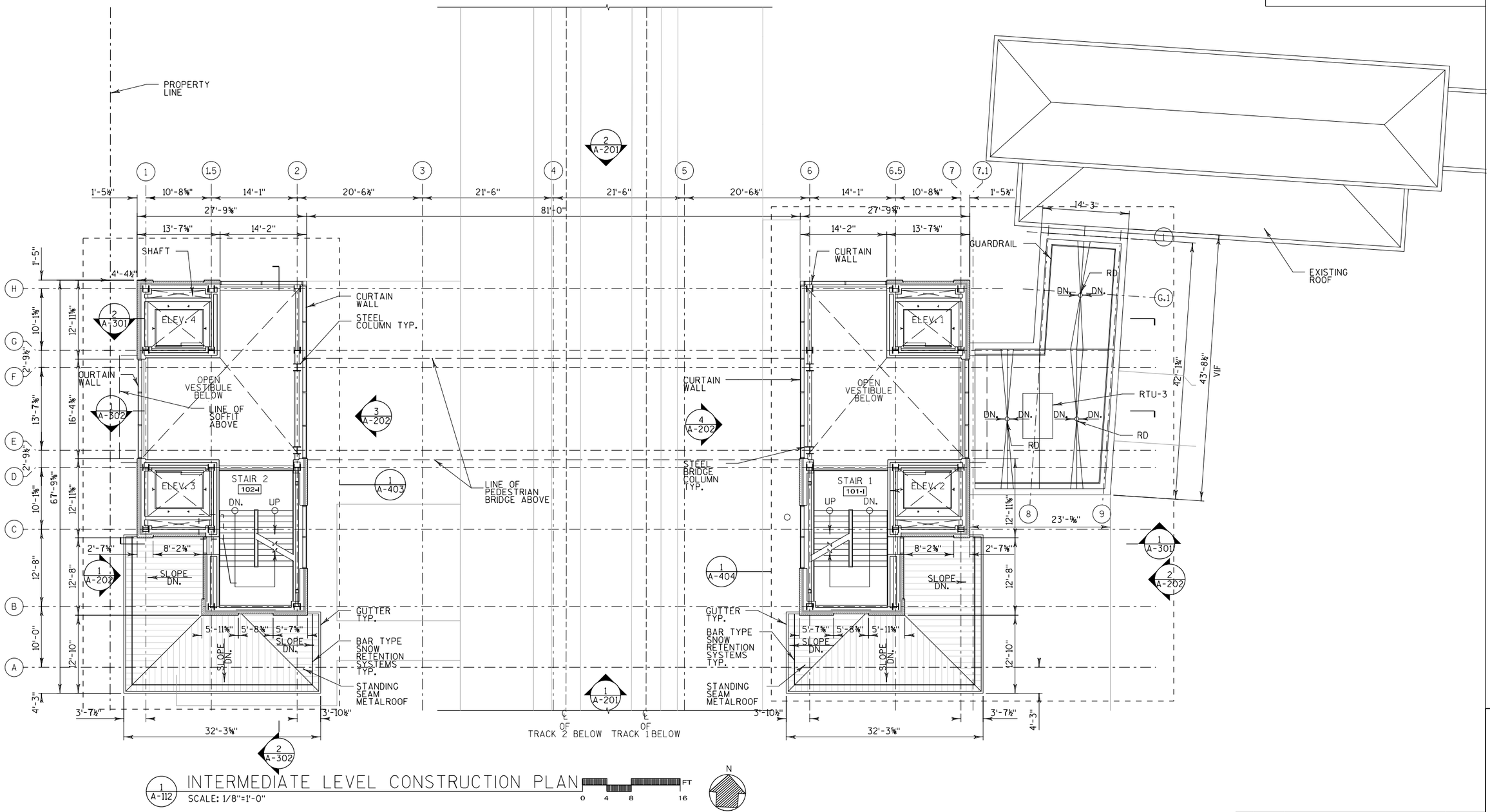
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 A-112 INTERMEDIATE LEVEL CONSTRUCTION PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

BATCH PRINT SHEET CSD OF NSD

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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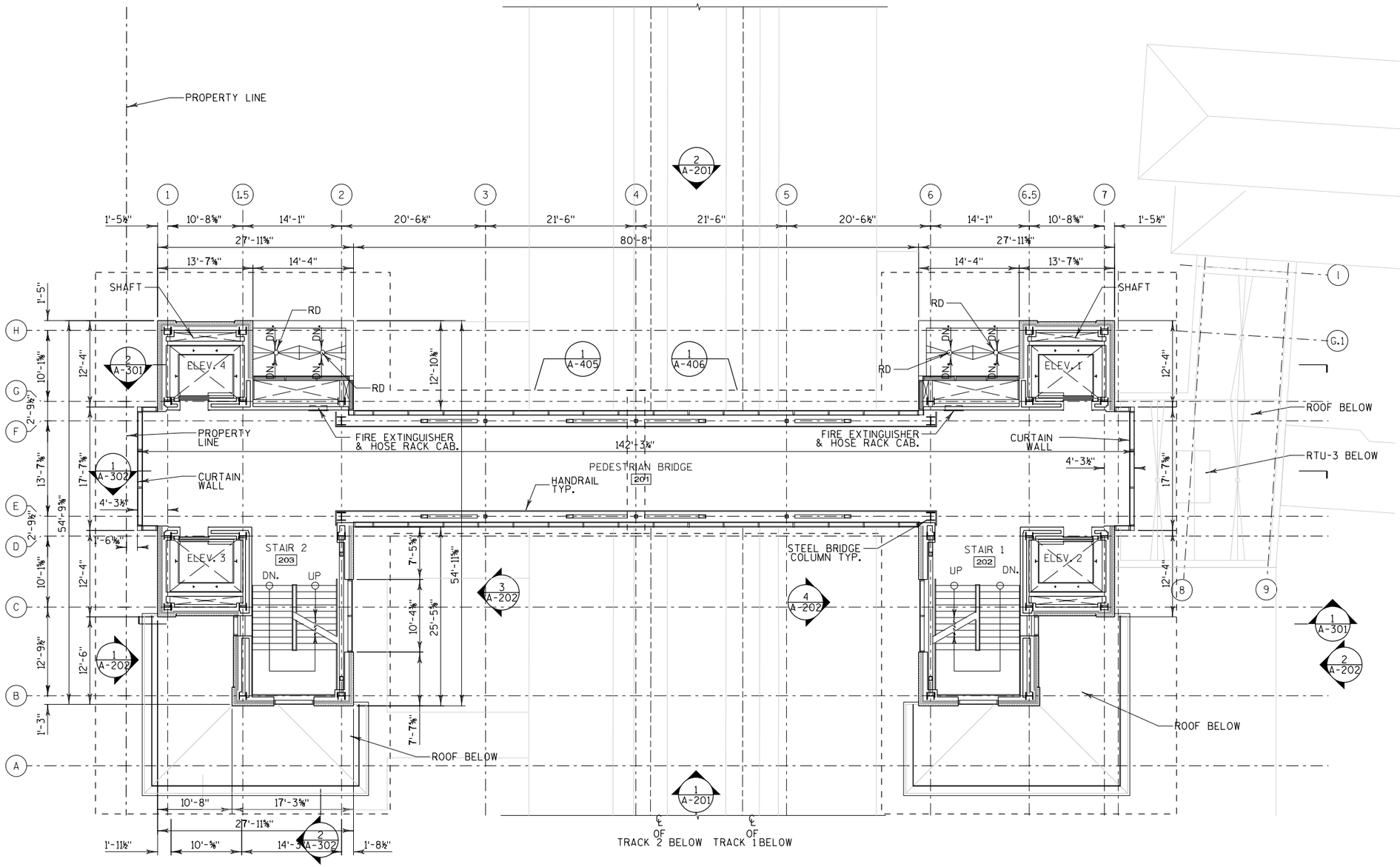
INTERMEDIATE LEVEL CONSTRUCTION PLAN

SHEET A-112

PRE_182

STATE PROJECT NUMBER

1000-57-05



1 A-113 SECOND FLOOR CONSTRUCTION PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

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SECOND FLOOR CONSTRUCTION PLAN

SHEET A-113

PRE_183

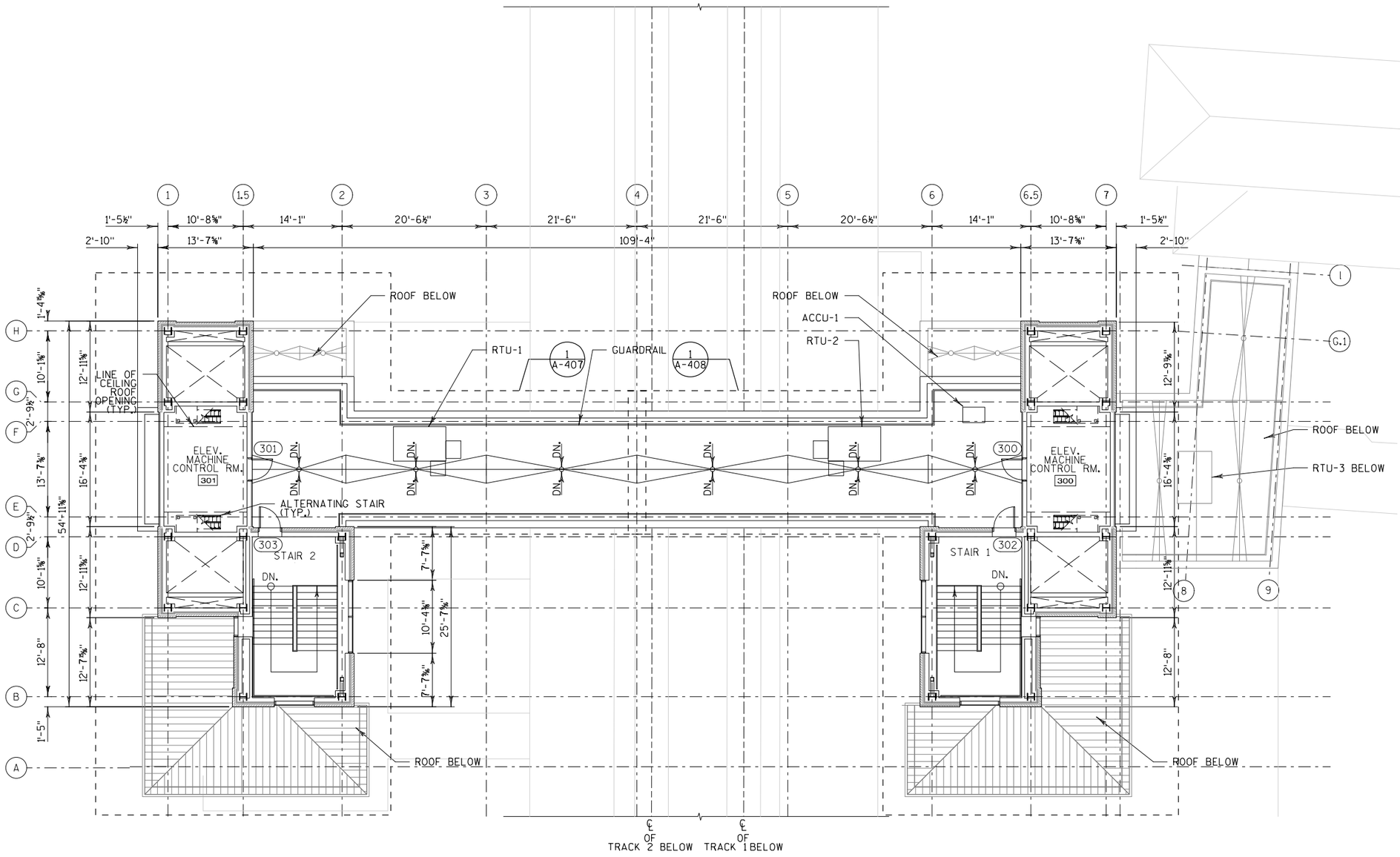
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 / A-114 PEDESTRIAN BRIDGE CONSTRUCTION ROOF PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

DRAWN BY JR | PLANS CK'D. DK

BRIDGE ROOF LEVEL CONSTRUCTION PLAN

SHEET A-114

PRE_184

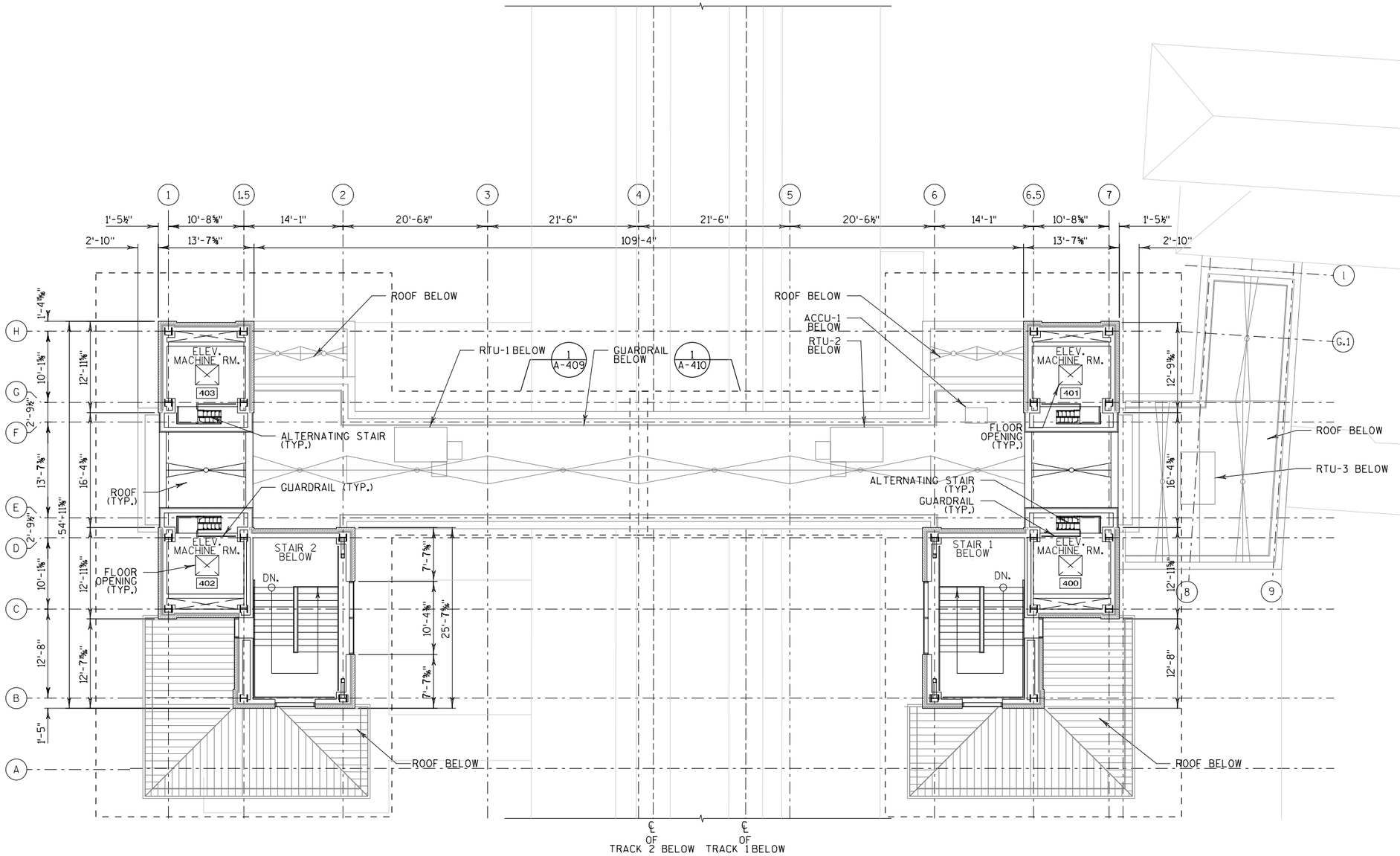
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 / A-115 ELEVATOR MACHINE LEVEL CONSTRUCTION ROOF PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

DRAWN BY JR | PLANS CK'D. DK

ELEVATOR MACHINE LEVEL CONSTRUCTION ROOF PLAN

SHEET A-115

PRE_185

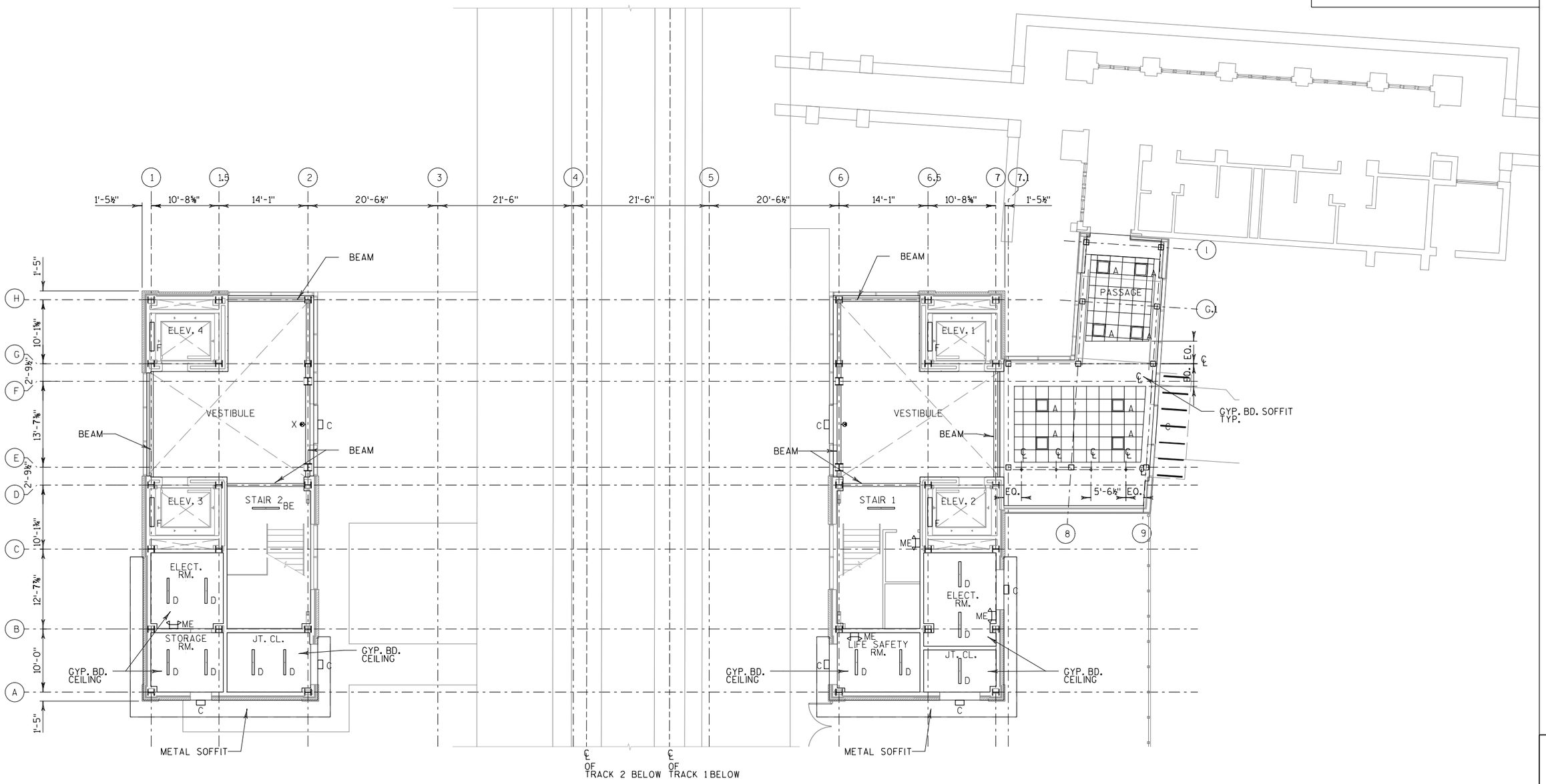
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

8

8

STATE PROJECT NUMBER

1000-57-05



1 A-120 FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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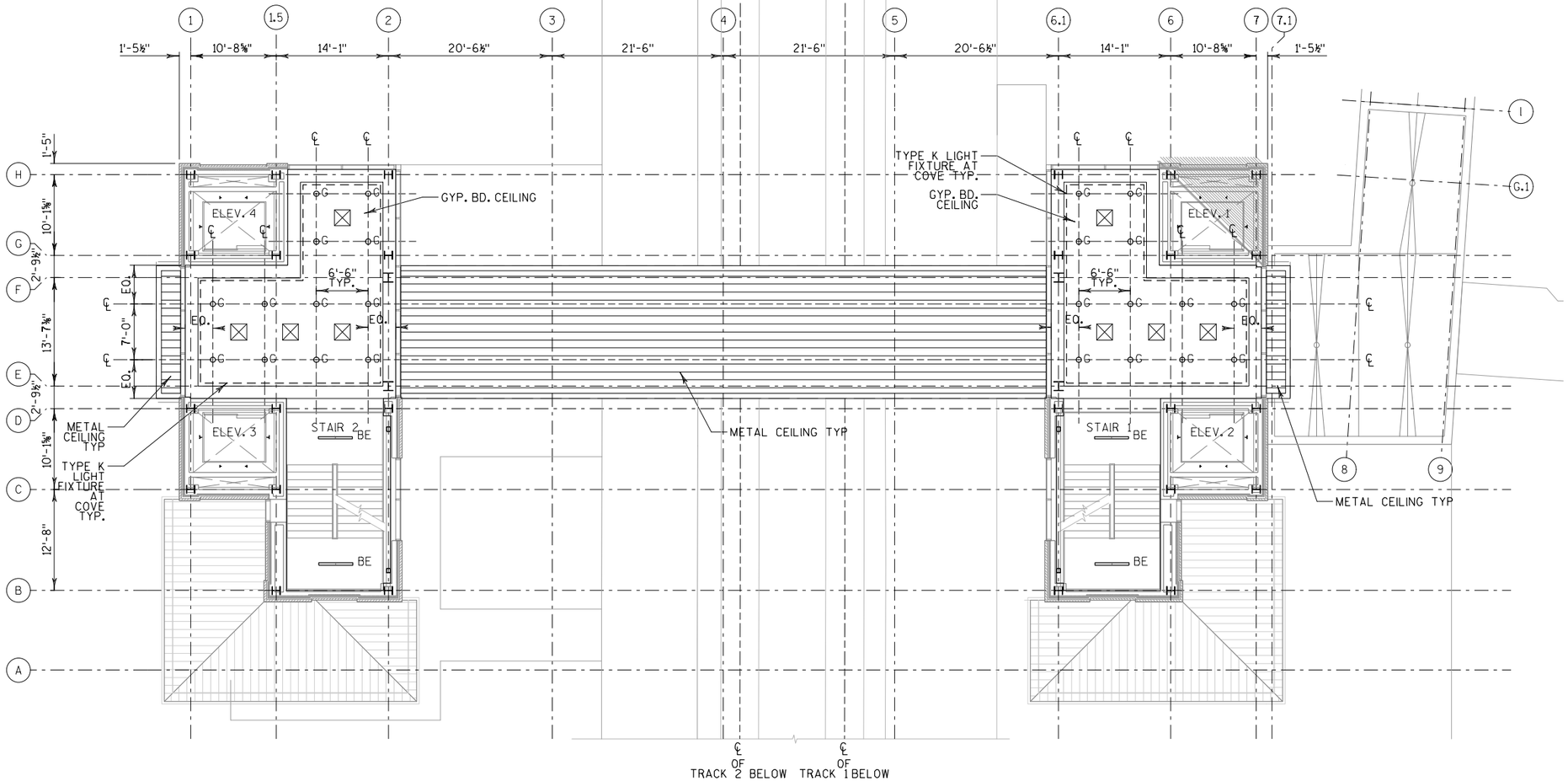
FIRST FLOOR REFLECTED CEILING PLAN

SHEET A-120

PRE_186

STATE PROJECT NUMBER

1000-57-05



1 / A-121 INTERMEDIATE LEVEL REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

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INTERMEDIATE LEVEL REFLECTED CEILING PLAN

SHEET A-121

PRE_187

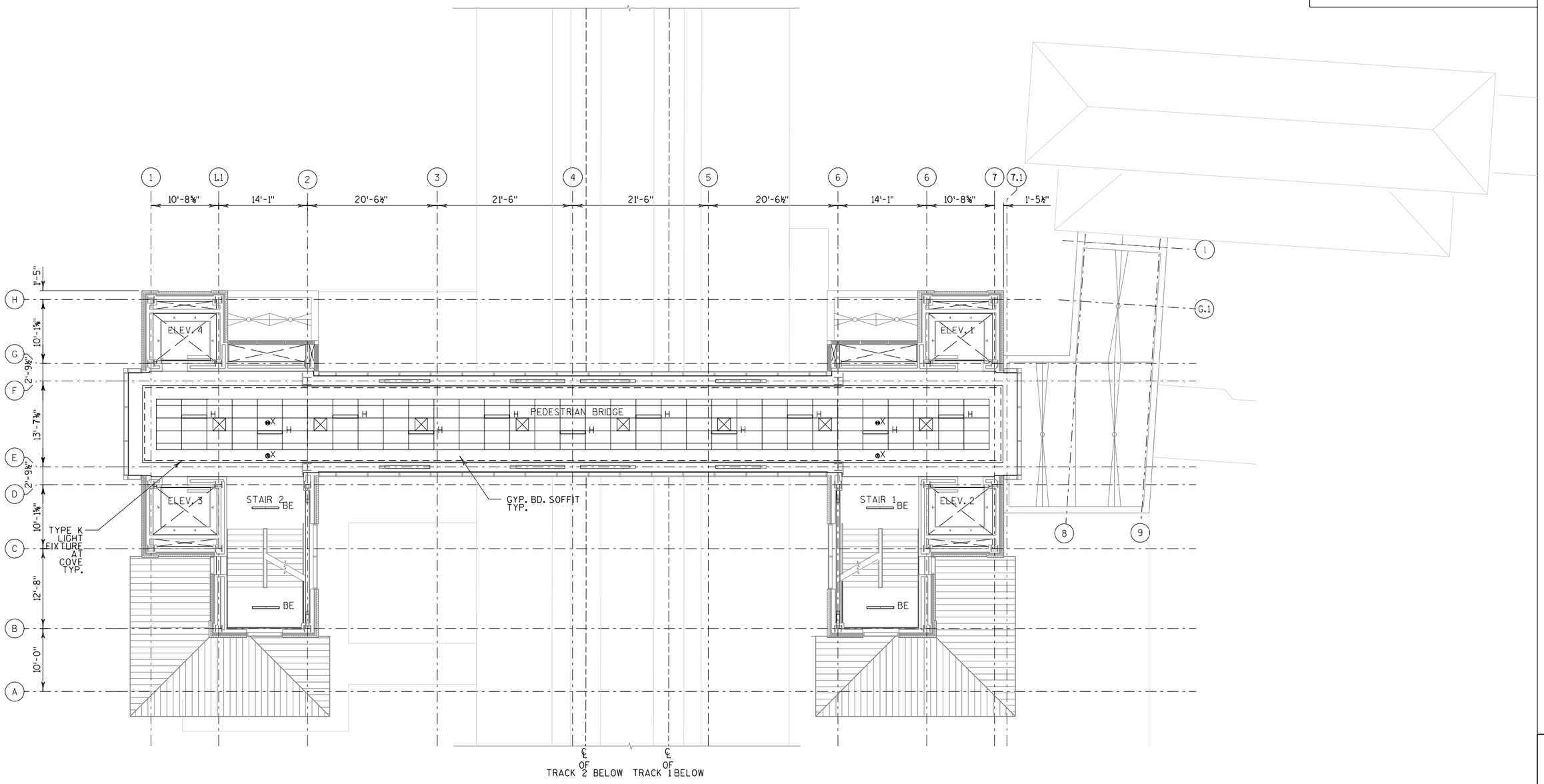
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PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

8

8

STATE PROJECT NUMBER

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1 / A-122 SECOND FLOOR REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

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SECOND FLOOR REFLECTED CEILING PLAN

SHEET A-122

PRE_188

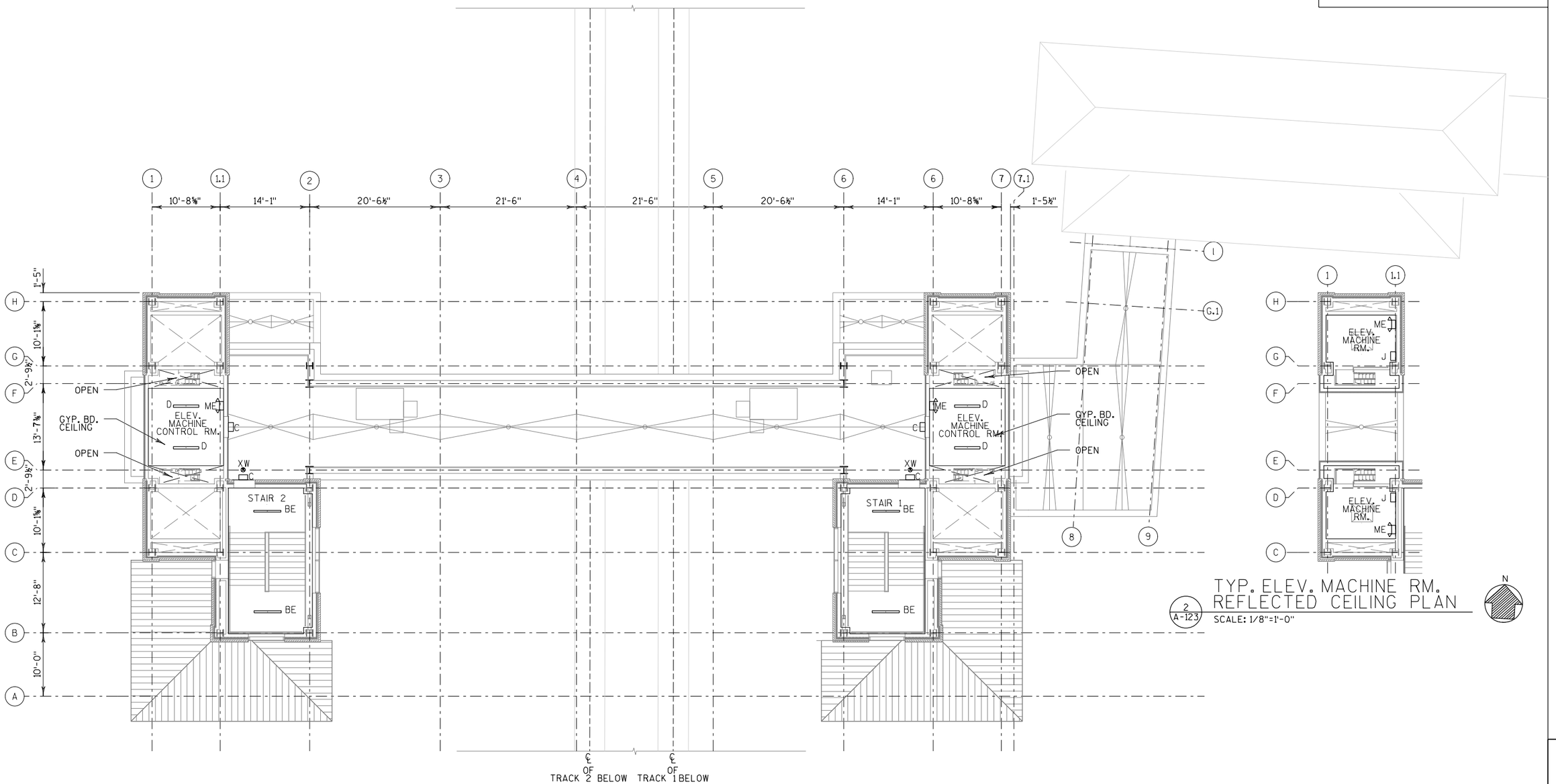
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

1000-57-05

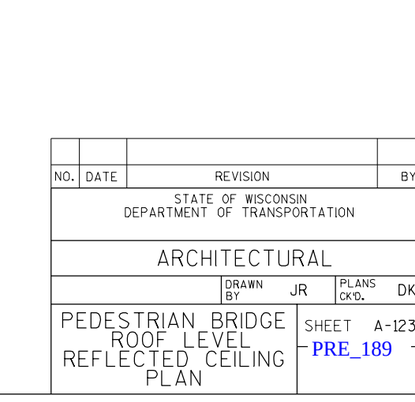


1 / A-123 PEDESTRIAN BRIDGE ROOF LEVEL REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N



2 / A-123 TYP. ELEV. MACHINE RM. REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

N

BATCH PRINT SHEET CSD OF NSD

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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ARCHITECTURAL

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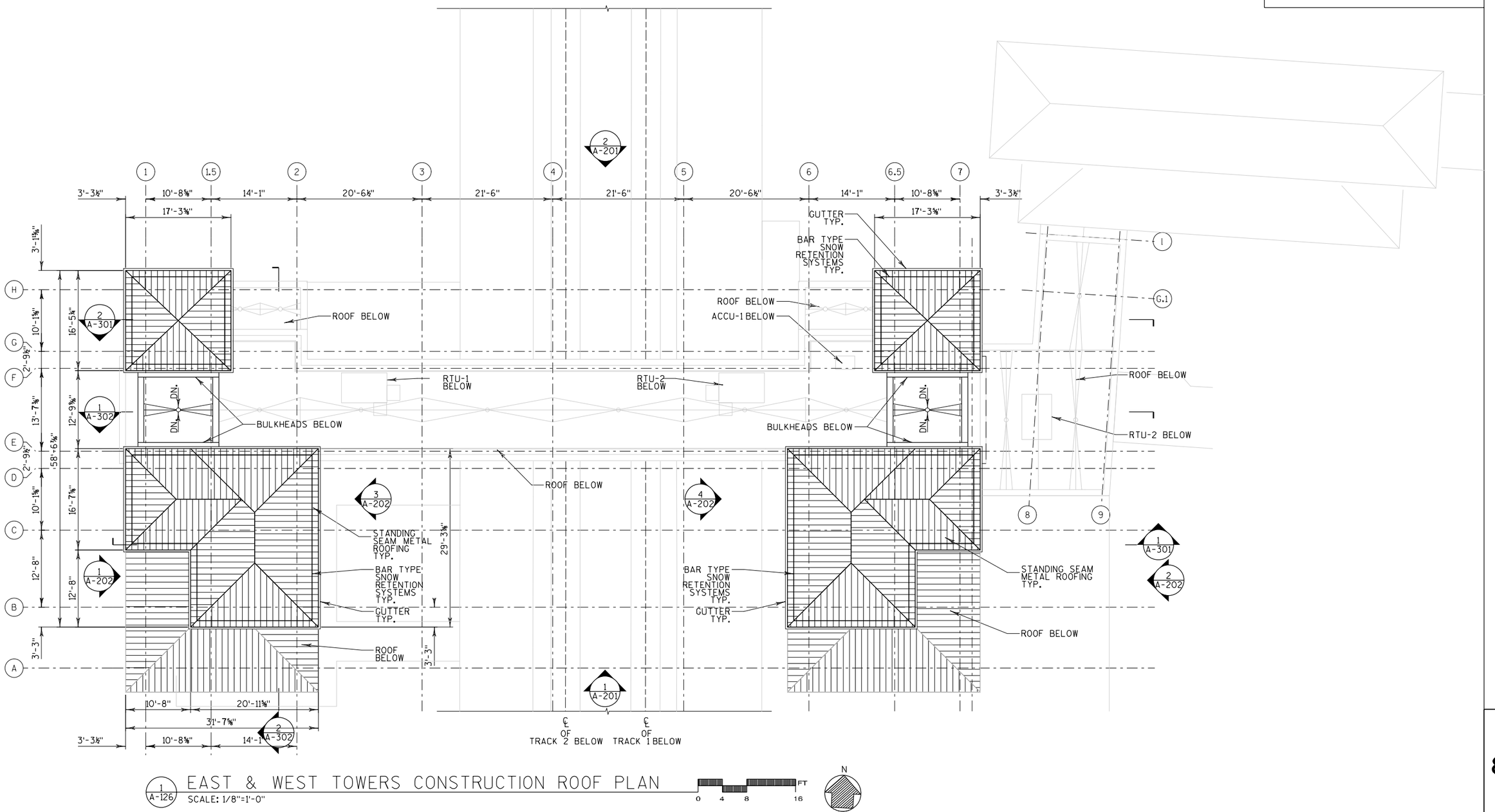
PEDESTRIAN BRIDGE ROOF LEVEL REFLECTED CEILING PLAN

SHEET A-123

PRE_189

STATE PROJECT NUMBER

1000-57-05



1 A-126 EAST & WEST TOWERS CONSTRUCTION ROOF PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

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EAST & WEST TOWERS CONSTRUCTION ROOF PLAN

SHEET A-126

PRE_190

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

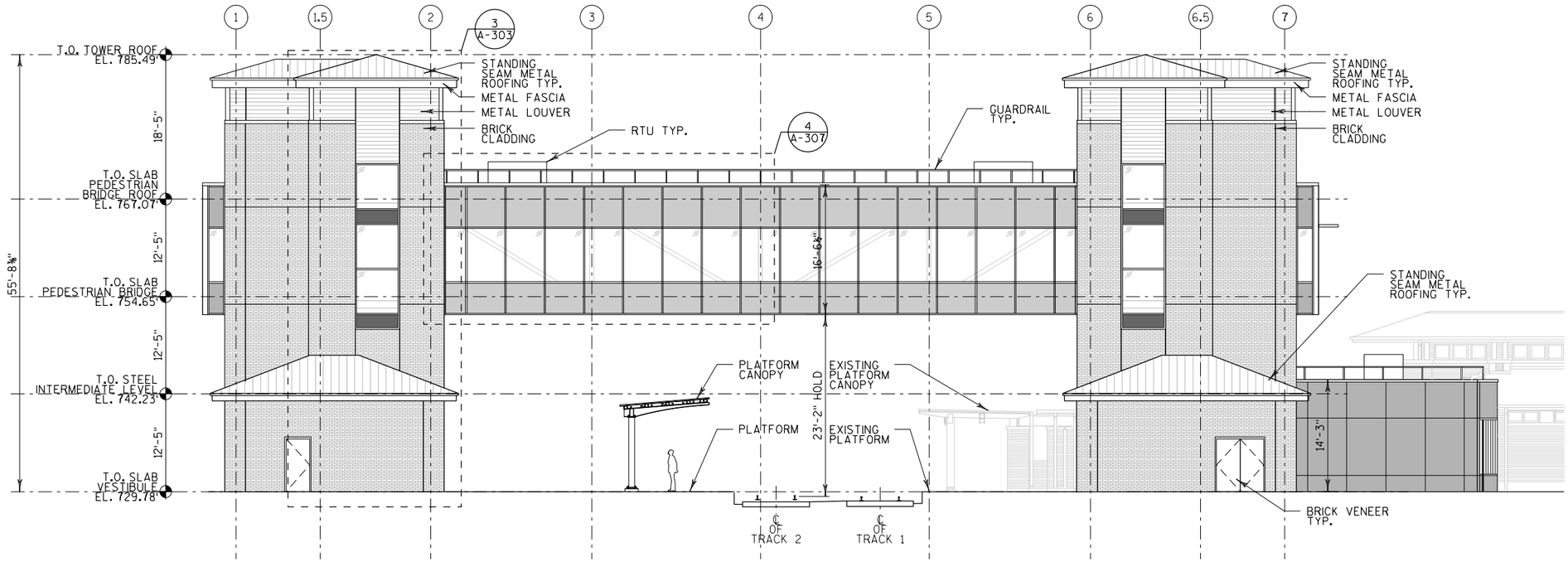
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

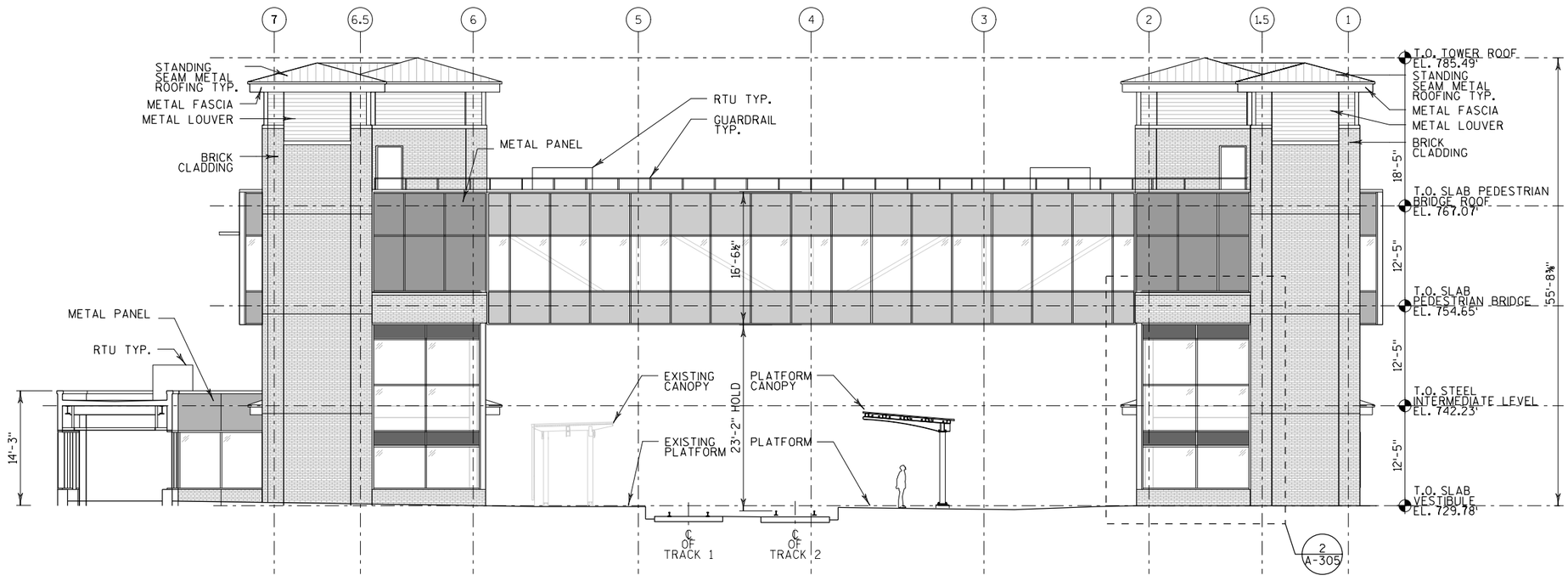
1000-57-05



1 / A-201 SOUTH ELEVATION

SCALE: 1/8"=1'-0"

0 4 8 16 FT



2 / A-201 NORTH ELEVATION

SCALE: 1/8"=1'-0"

0 4 8 16 FT

LEGEND:

- GL-1: VISION GLASS
- GL-2 : TRANSLUCENT GLASS
- GL-3 : SPANDREL GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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ELEVATIONS

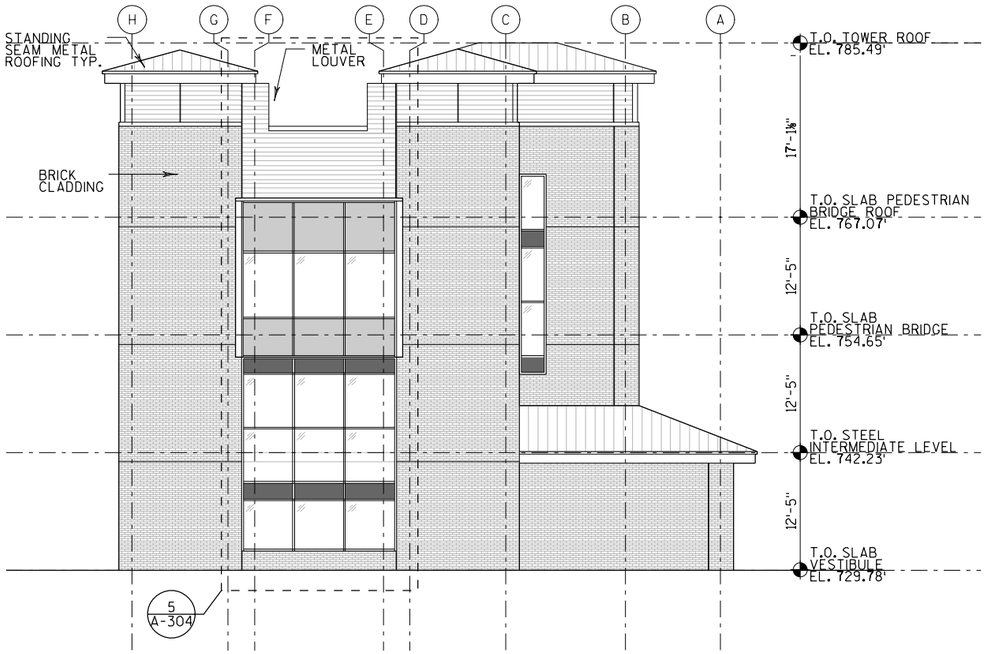
SHEET A-201
PRE_191

8

8

STATE PROJECT NUMBER

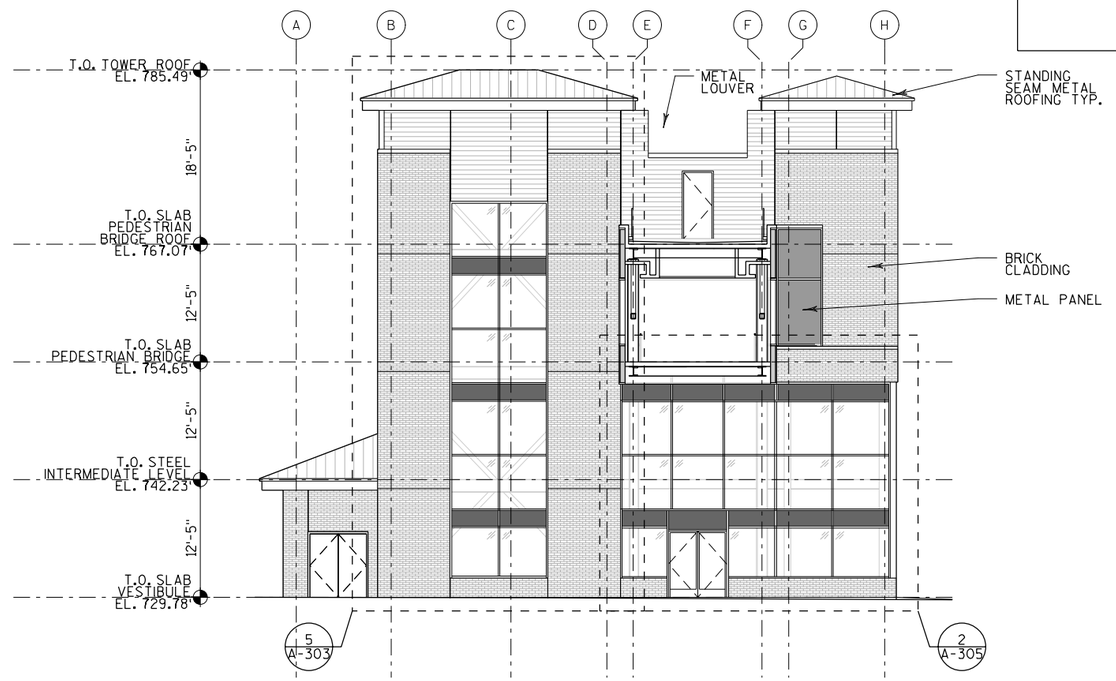
1000-57-05



1 A-202 WEST ELEVATION - WEST TOWER

SCALE: 1/8"=1'-0"

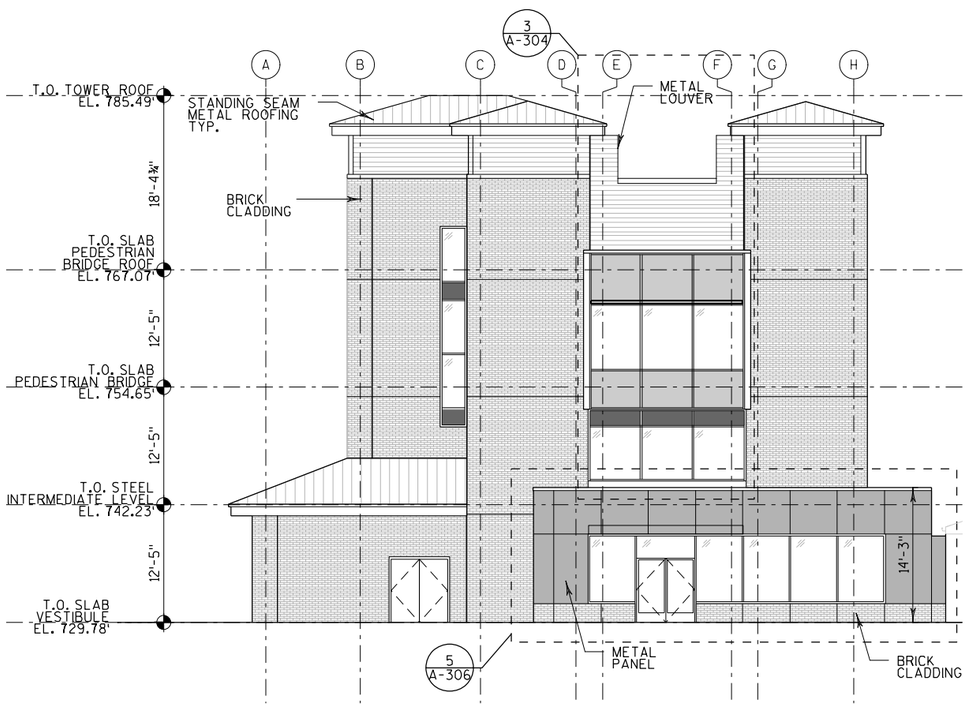
0 4 8 16 FT



3 A-202 EAST ELEVATION - WEST TOWER

SCALE: 1/8"=1'-0"

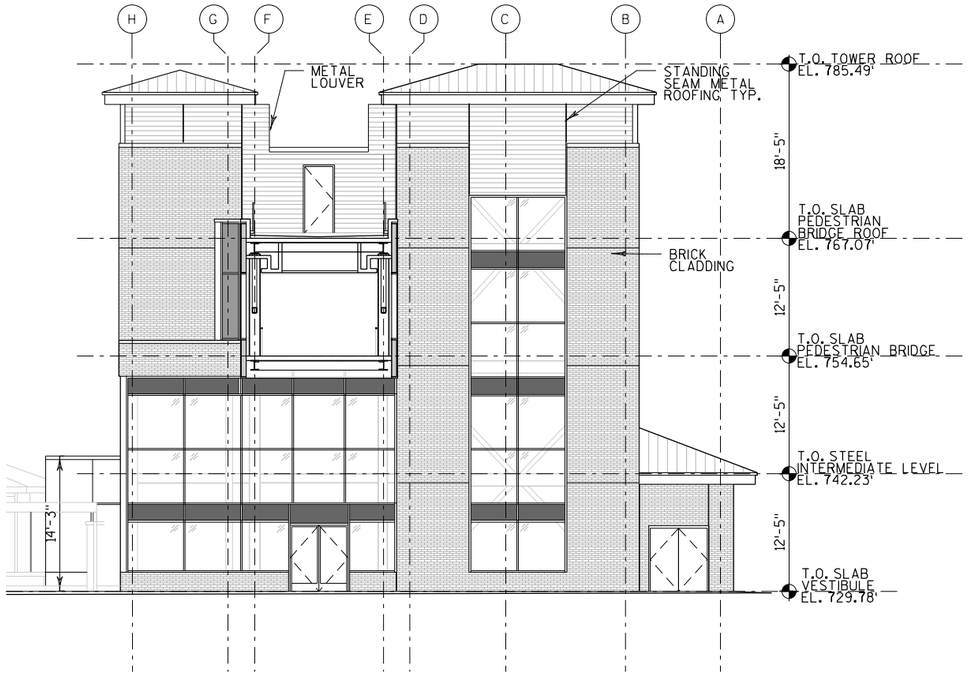
0 4 8 16 FT



2 A-202 EAST ELEVATION - EAST TOWER

SCALE: 1/8"=1'-0"

0 4 8 16 FT



4 A-202 WEST ELEVATION - EAST TOWER

SCALE: 1/8"=1'-0"

0 4 8 16 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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ELEVATIONS

SHEET A-202

PRE_192

8

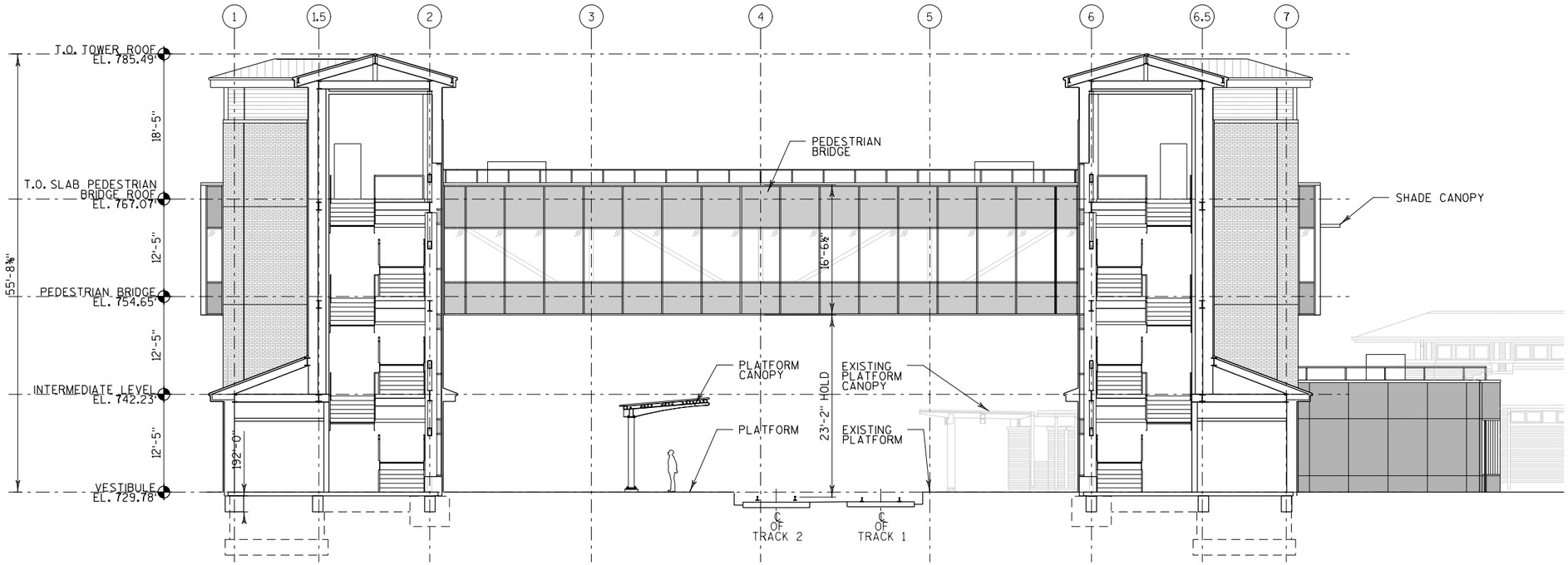
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

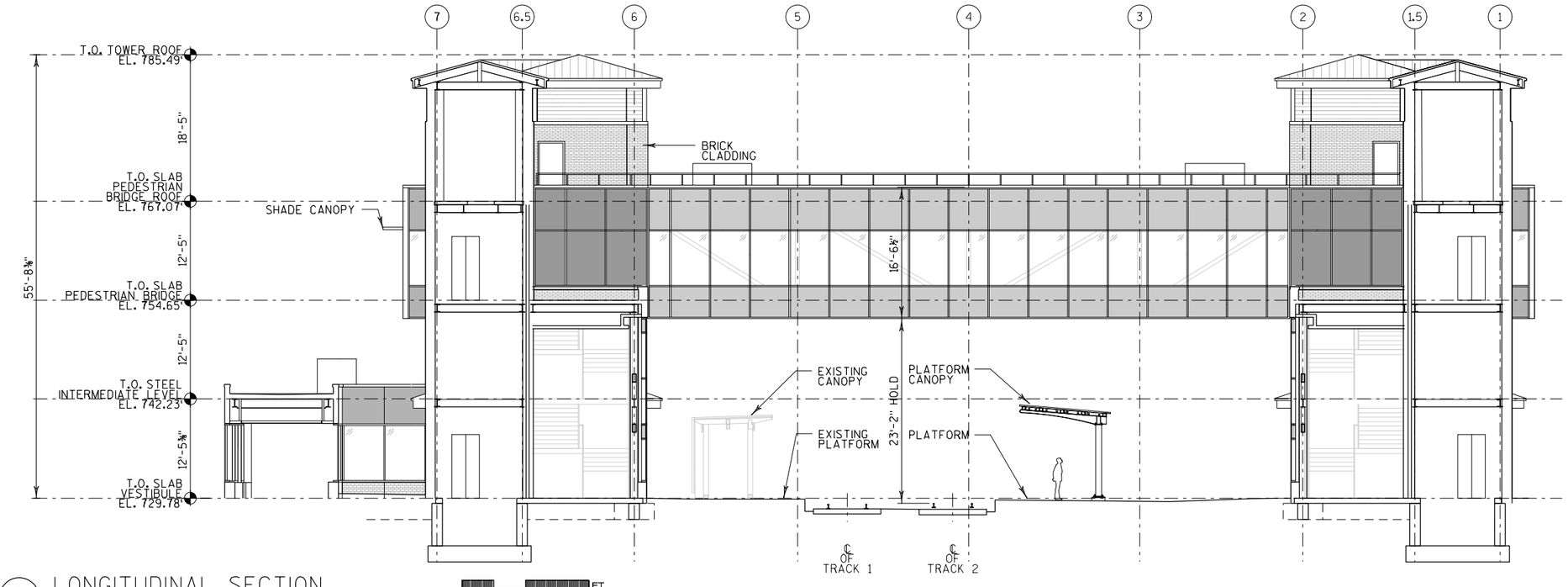
1000-57-05



1/A-301 LONGITUDINAL SECTION

SCALE: 1/8"=1'-0"

0 4 8 16 FT



2/A-301 LONGITUDINAL SECTION

SCALE: 1/8"=1'-0"

0 4 8 16 FT

LEGEND:

- GL-1: VISION GLASS
- GL-2 : TRANSLUCENT GLASS
- GL-3 : SPANDREL GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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ARCHITECTURAL

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SECTIONS

SHEET A-301

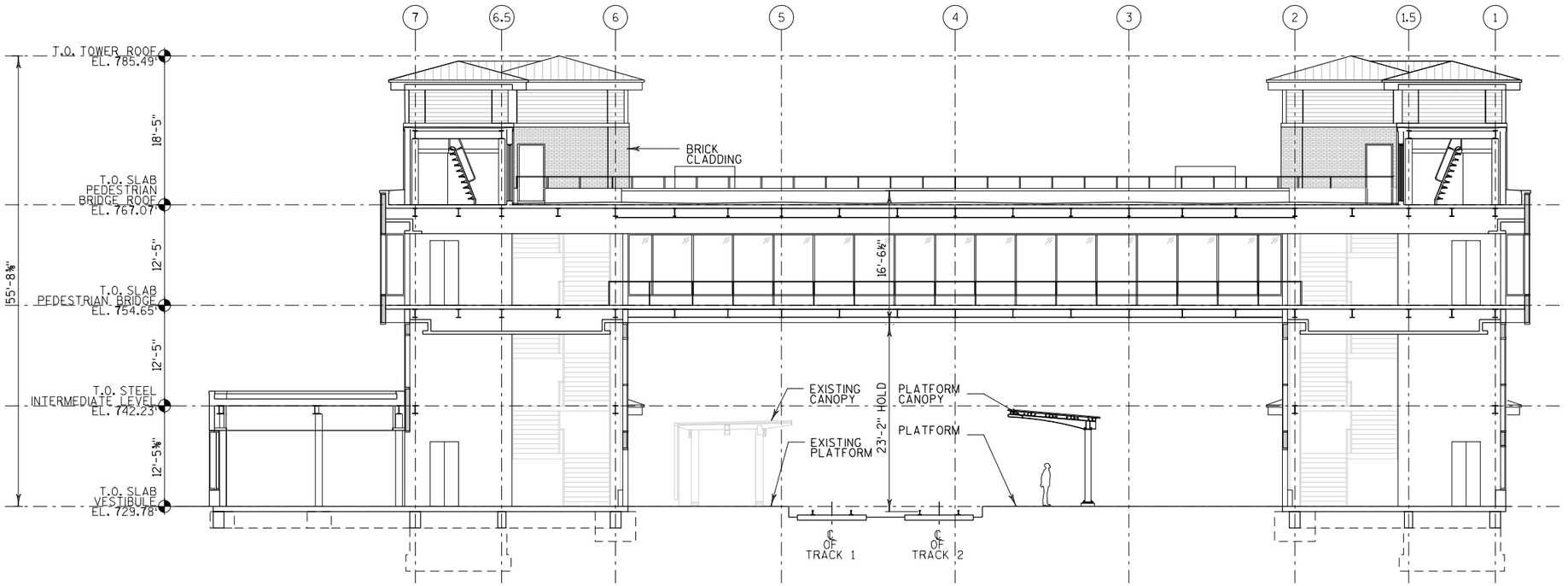
PRE_193

8

8

STATE PROJECT NUMBER

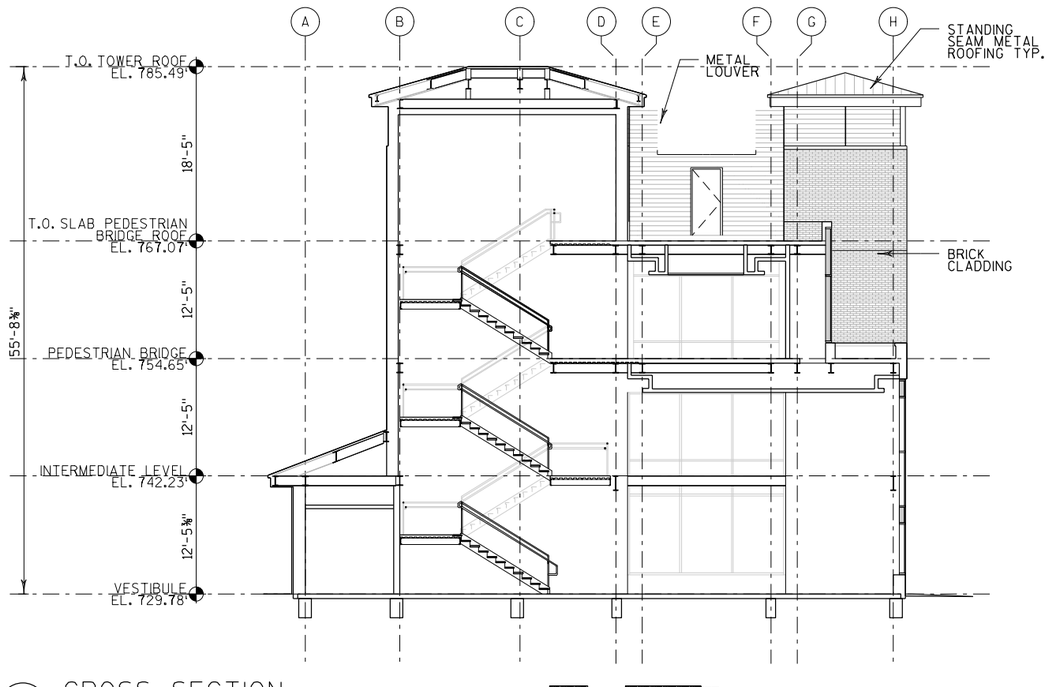
1000-57-05



1/A-302 LONGITUDINAL SECTION

SCALE: 1/8"=1'-0"

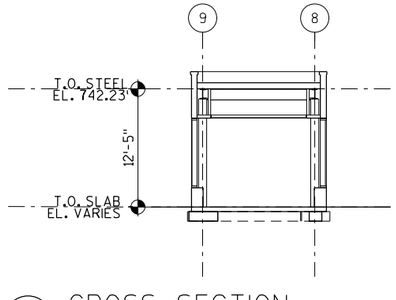
0 4 8 16 FT



2/A-302 CROSS SECTION

SCALE: 1/8"=1'-0"

0 4 8 16 FT



3/A-302 CROSS SECTION

SCALE: 1/8"=1'-0"

0 4 8 16 FT

LEGEND:

- GL-1: VISION GLASS
- GL-2 : TRANSLUCENT GLASS
- GL-3 : SPANDREL GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

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SECTIONS

SHEET A-302

PRE_194

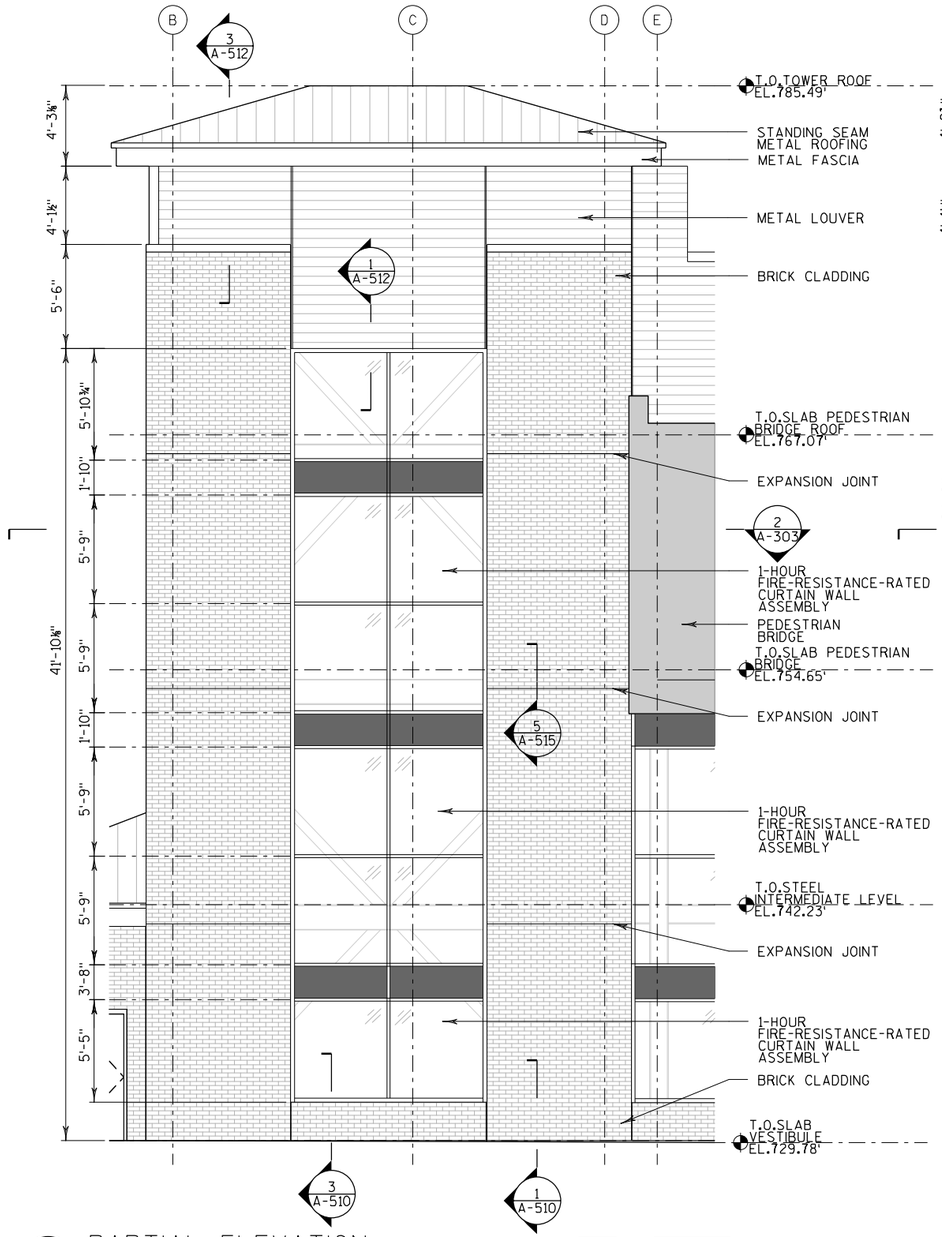
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8

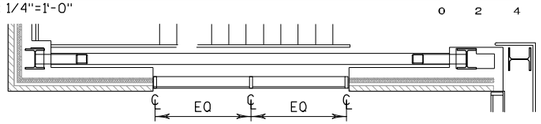
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

1000-57-05

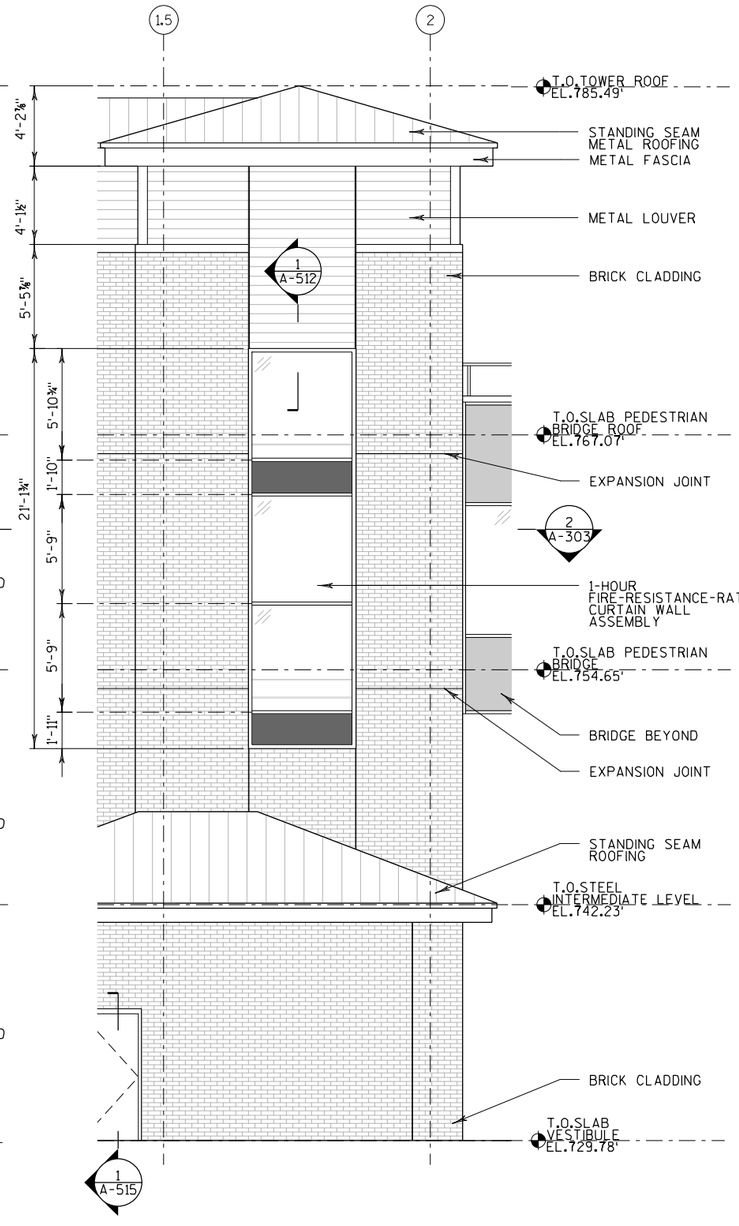


5 A-303 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

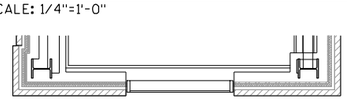


5 A-303

4 A-303 PARTIAL PLAN
SCALE: 1/4"=1'-0"

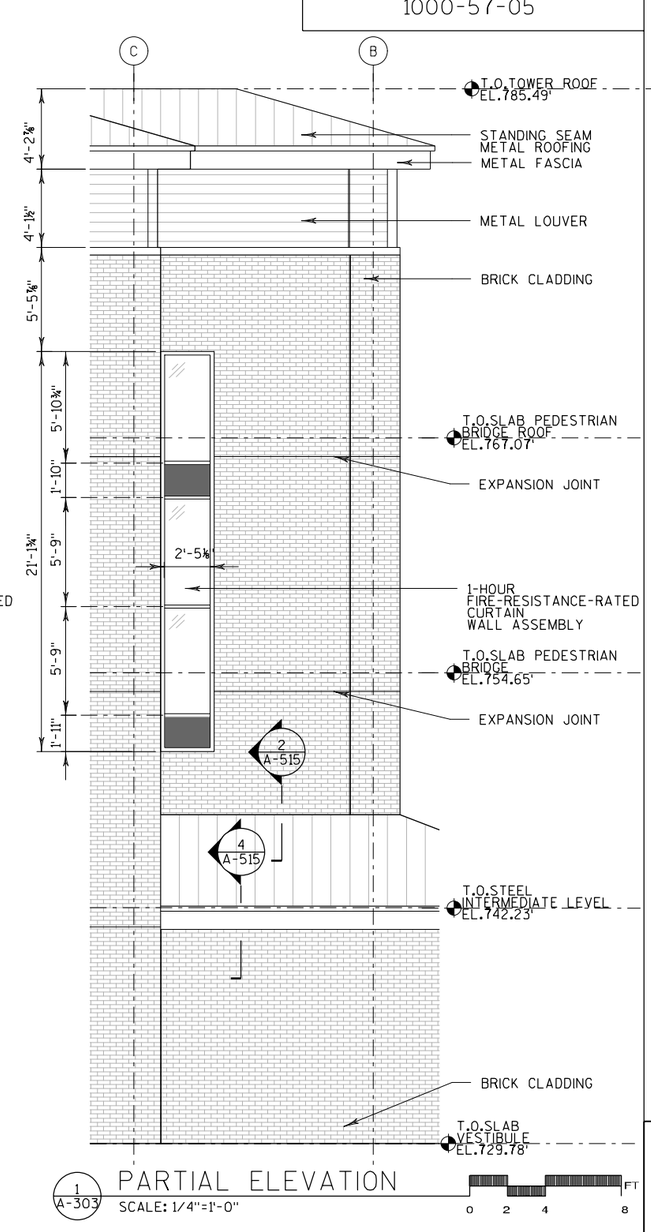


3 A-303 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



3 A-303

2 A-303 PARTIAL PLAN
SCALE: 1/4"=1'-0"



1 A-303 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

LEGEND:

- GL-1: VISION GLASS
- GL-2 : SPANDREL GLASS
- GL-3 : TRANSLUCENT GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

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PARTIAL ELEVATION/PLAN

SHEET A-303
PRE_195

8

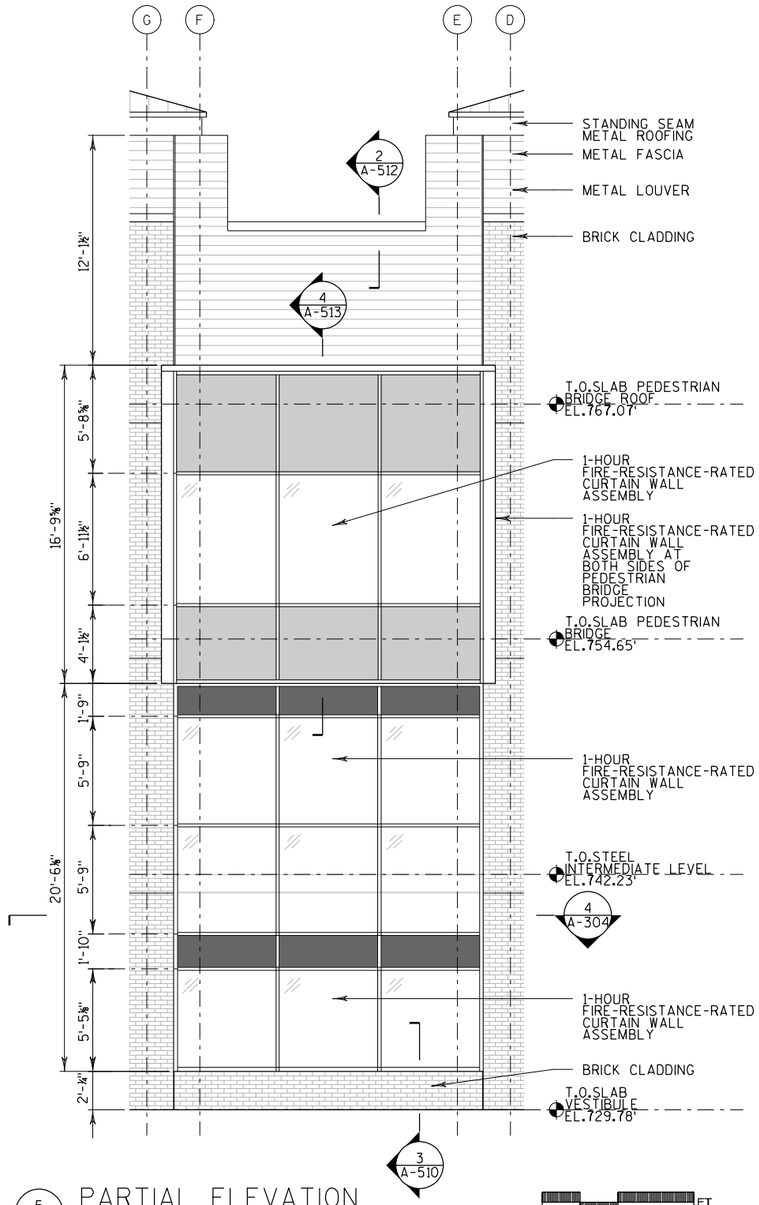
8

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

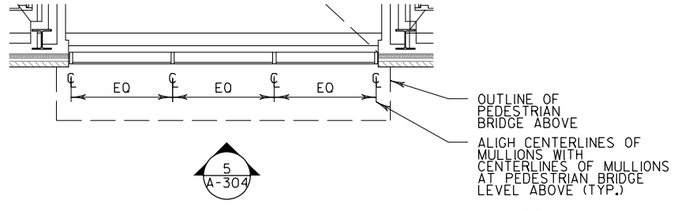
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

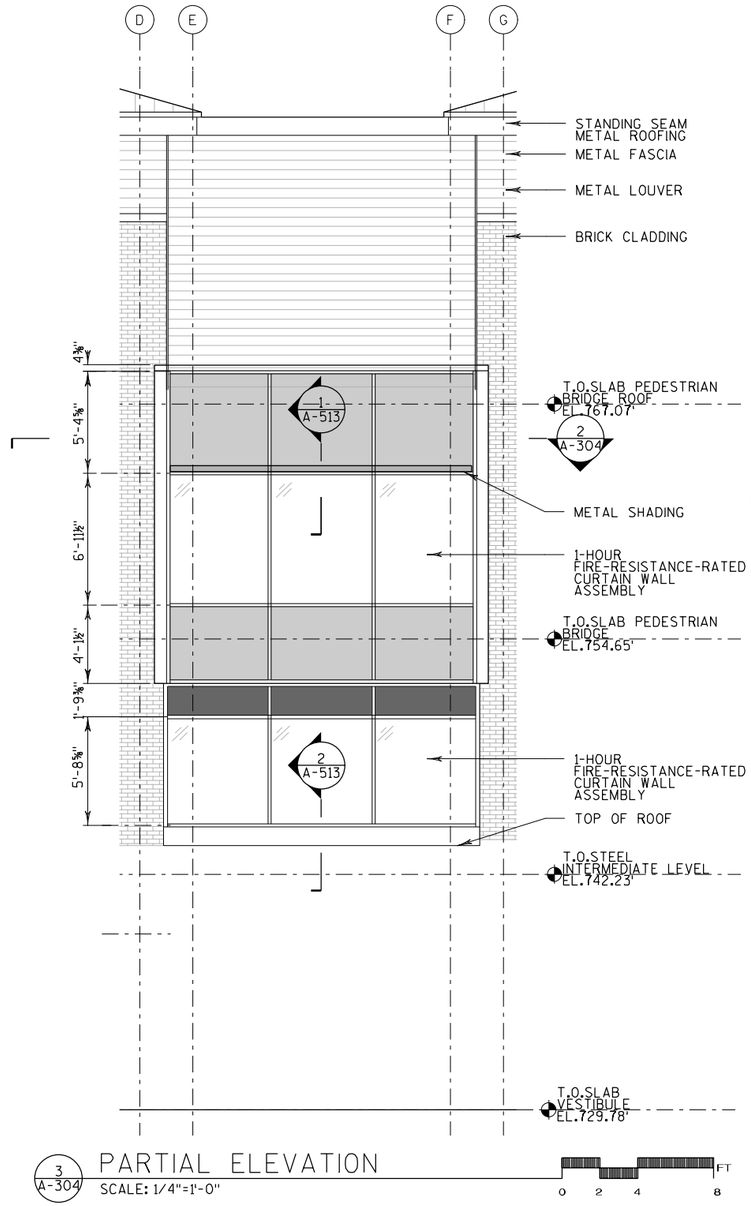
1000-57-05



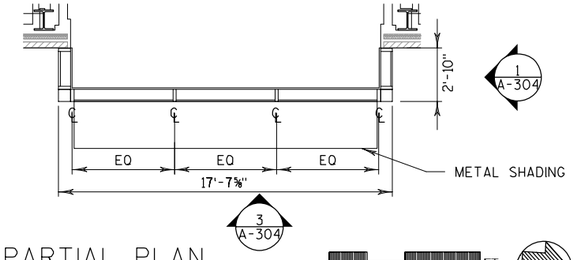
5 A-304 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



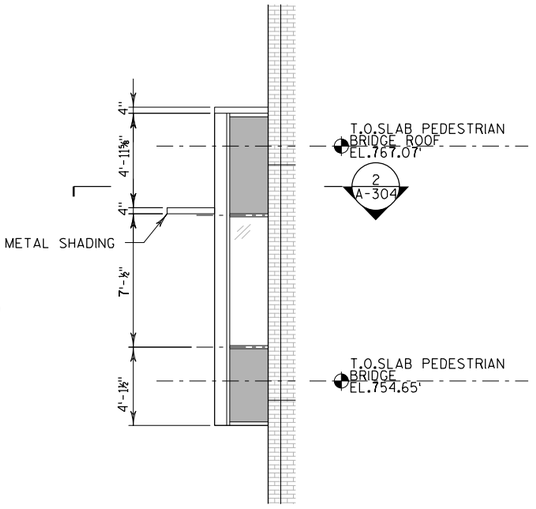
4 A-304 PARTIAL PLAN
SCALE: 1/4"=1'-0"



3 A-304 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



2 A-304 PARTIAL PLAN
SCALE: 1/4"=1'-0"



1 A-304 ENLARGED ELEVATION
SCALE: 1/4"=1'-0"

LEGEND:

- GL-1: VISION GLASS
- GL-2 : SPANDREL GLASS
- GL-3 : TRANSLUCENT GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

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DEPARTMENT OF TRANSPORTATION

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PARTIAL ELEVATION/PLAN

SHEET A-304

PRE_196

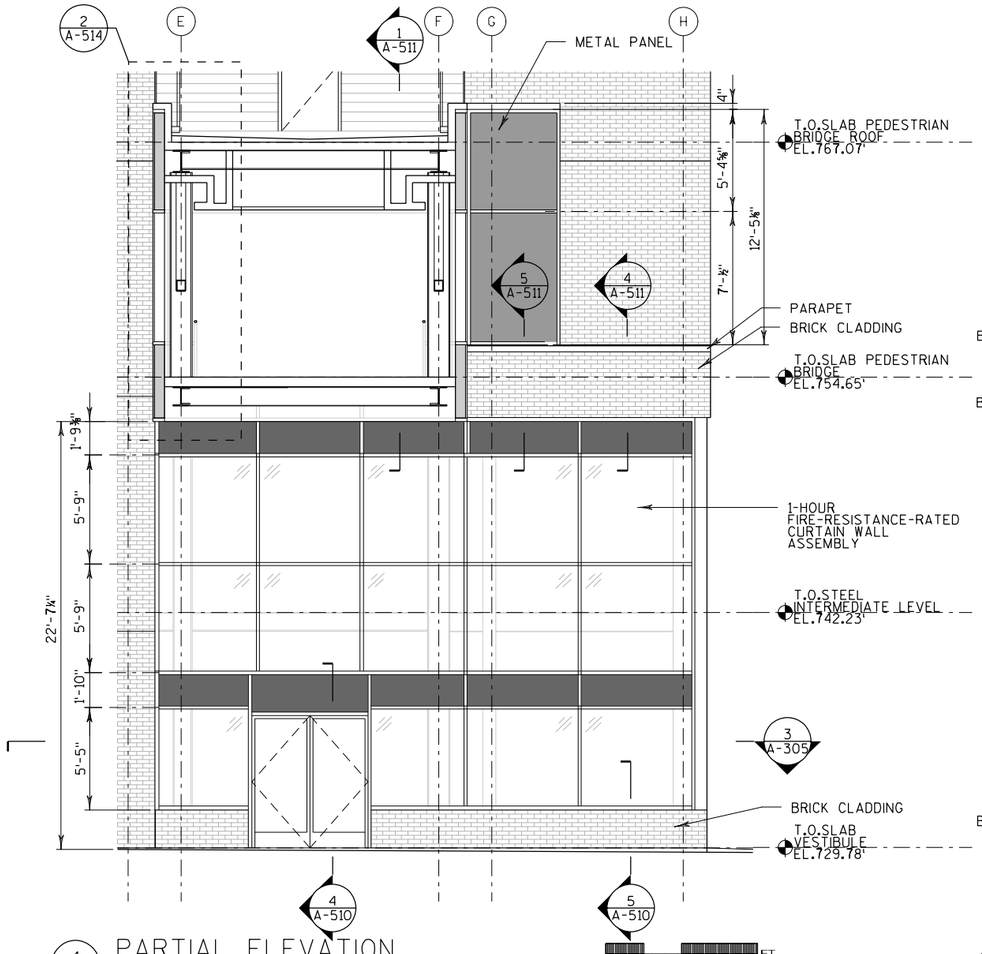
8

8

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

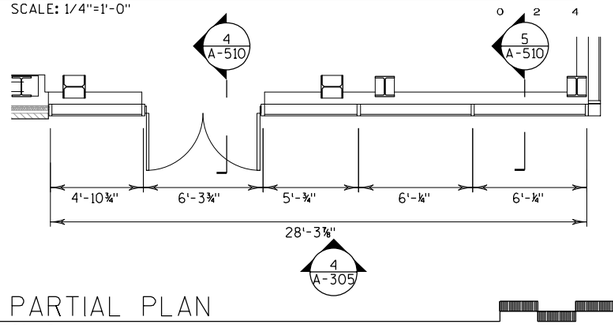
1000-57-05



4 A-305 PARTIAL ELEVATION

SCALE: 1/4"=1'-0"

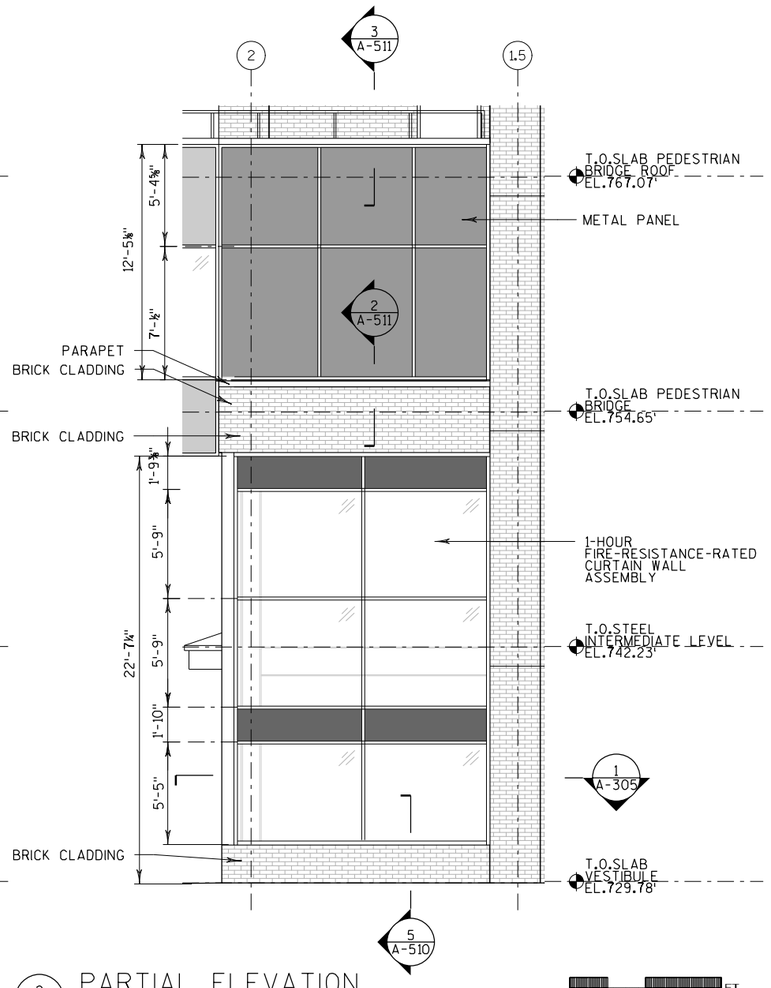
0 2 4 8 FT



3 A-305 PARTIAL PLAN

SCALE: 1/4"=1'-0"

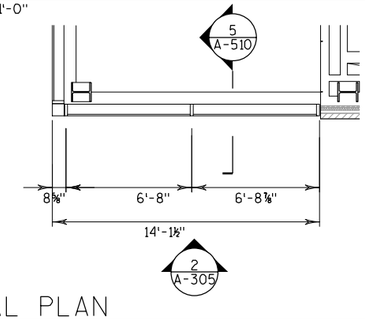
0 2 4 8 FT



2 A-305 PARTIAL ELEVATION

SCALE: 1/4"=1'-0"

0 2 4 8 FT



1 A-305 PARTIAL PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

LEGEND:

- GL-1: VISION GLASS
- GL-2 : SPANDREL GLASS
- GL-3 : TRANSLUCENT GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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TOWER-
ENLARGED PLAN,
ELEV. AND SECTION

SHEET A-305

PRE_197

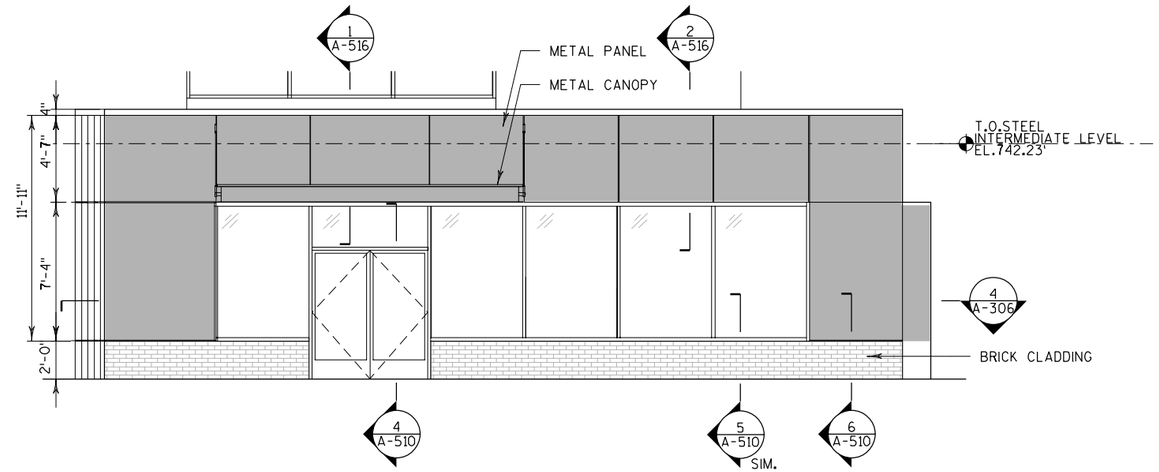
8

8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

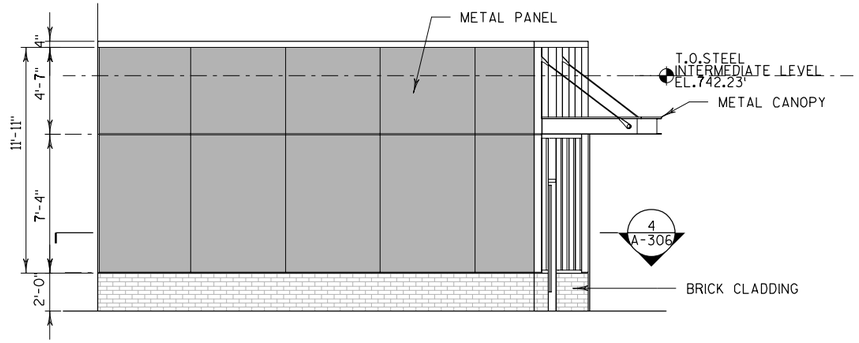
STATE PROJECT NUMBER

1000-57-05



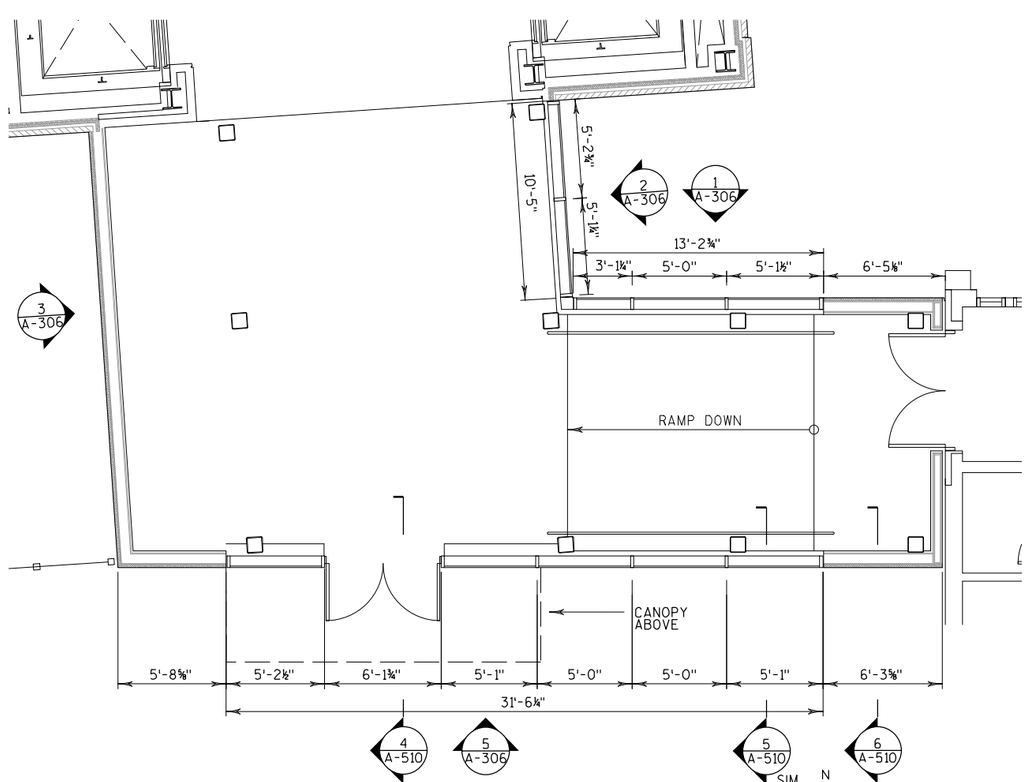
5 A-306 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

0 2 4 8 FT



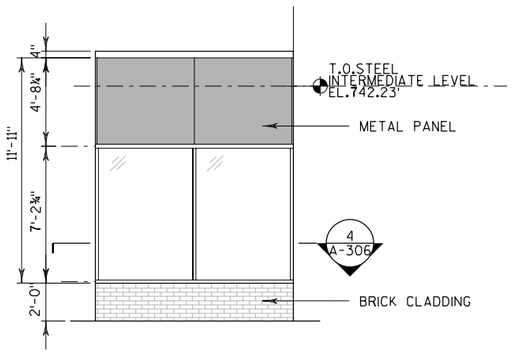
3 A-306 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

0 2 4 8 FT



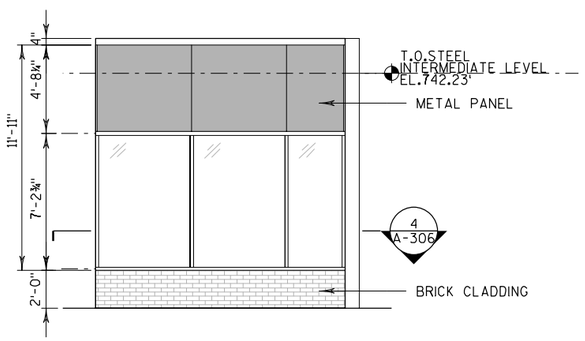
4 A-306 PARTIAL PLAN
SCALE: 1/4"=1'-0"

0 2 4 8 FT



2 A-306 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

0 2 4 8 FT



1 A-306 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"

0 2 4 8 FT

LEGEND:

- GL-1: VISION GLASS
- GL-2 : SPANDREL GLASS
- GL-3 : TRANSLUCENT GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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PARTIAL ELEVATION/PLAN

SHEET A-306
PRE_198

8

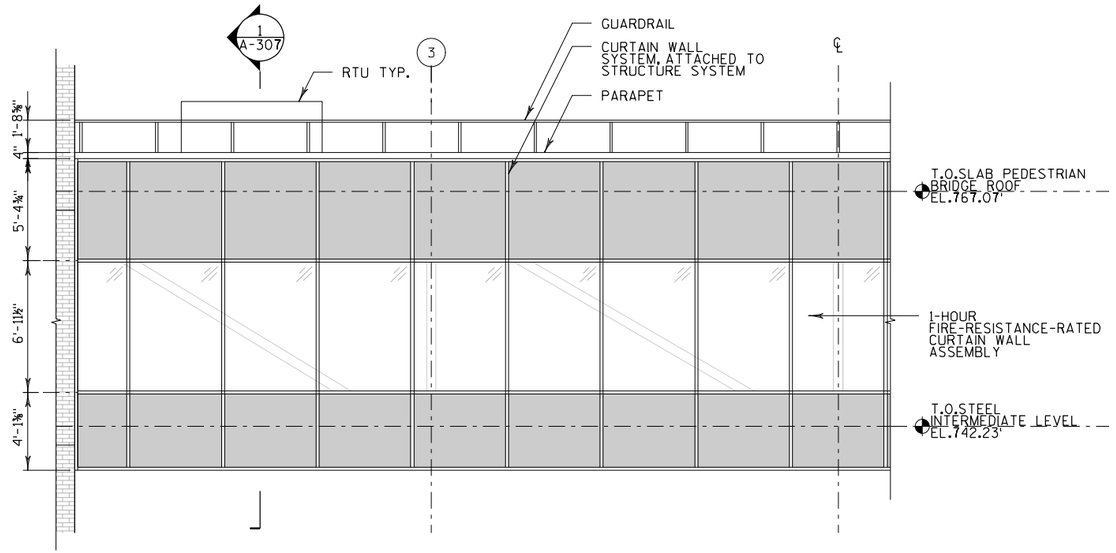
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

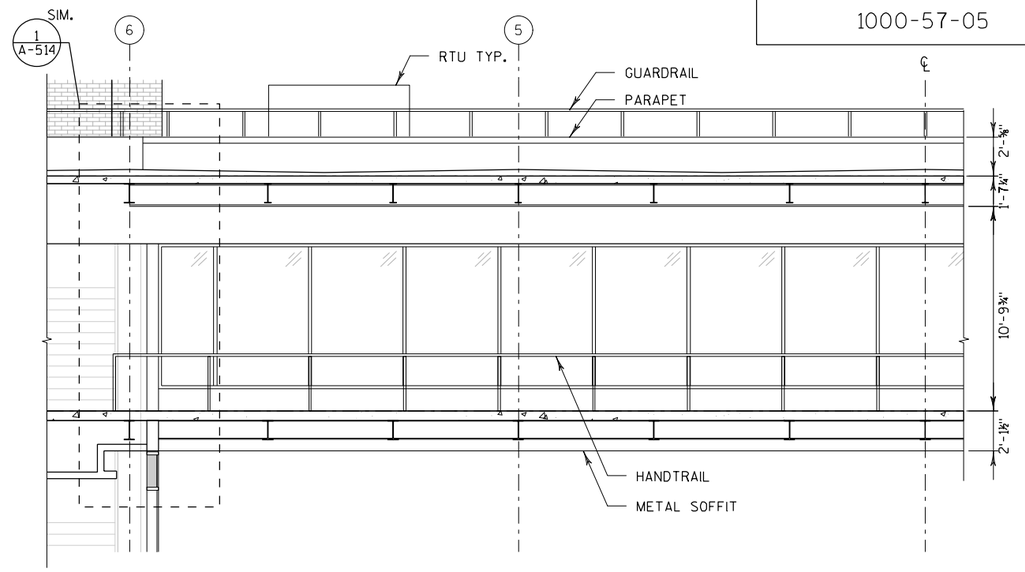
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

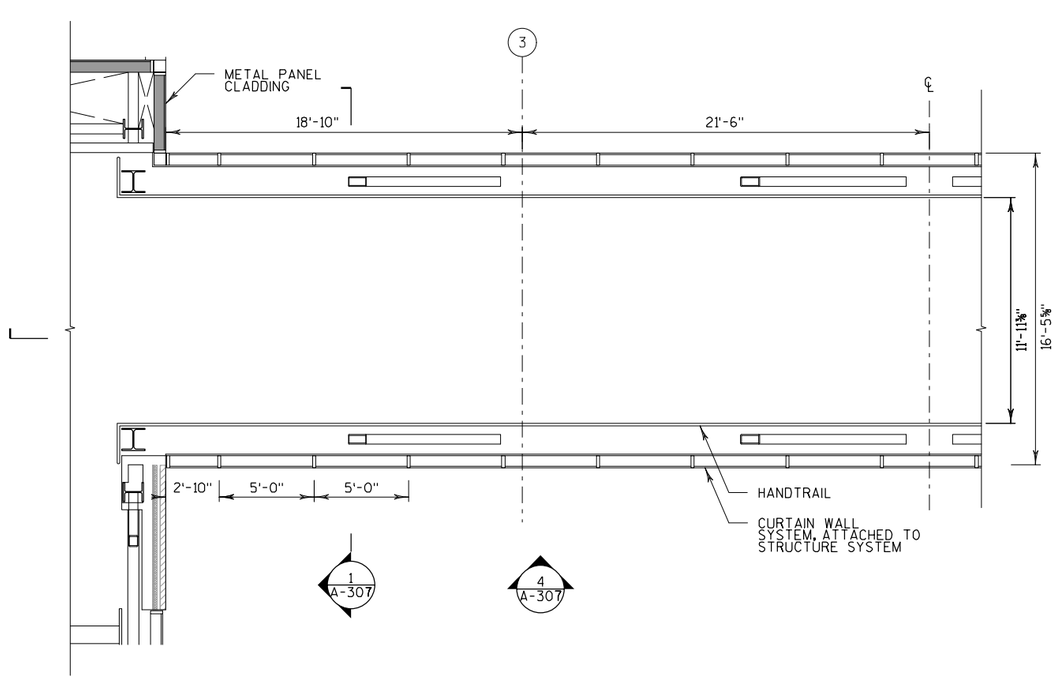
1000-57-05



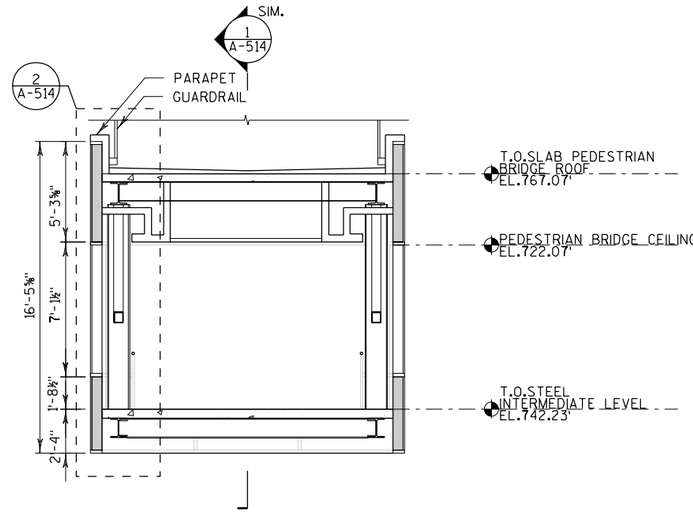
4 A-307 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



2 A-307 PARTIAL ELEVATION
SCALE: 1/4"=1'-0"



3 A-307 PARTIAL PLAN
SCALE: 1/4"=1'-0"



1 A-307 PARTIAL SECTION
SCALE: 1/4"=1'-0"

LEGEND:

- GL-1: VISION GLASS
- GL-2 : SPANDREL GLASS
- GL-3 : TRANSLUCENT GLASS
- M-1: METAL PANEL
- L-1: METAL LOUVER
- W-1: BRICK WALL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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PARTIAL ELEVATION/PLAN /SECTION

SHEET A-307
PRE_199

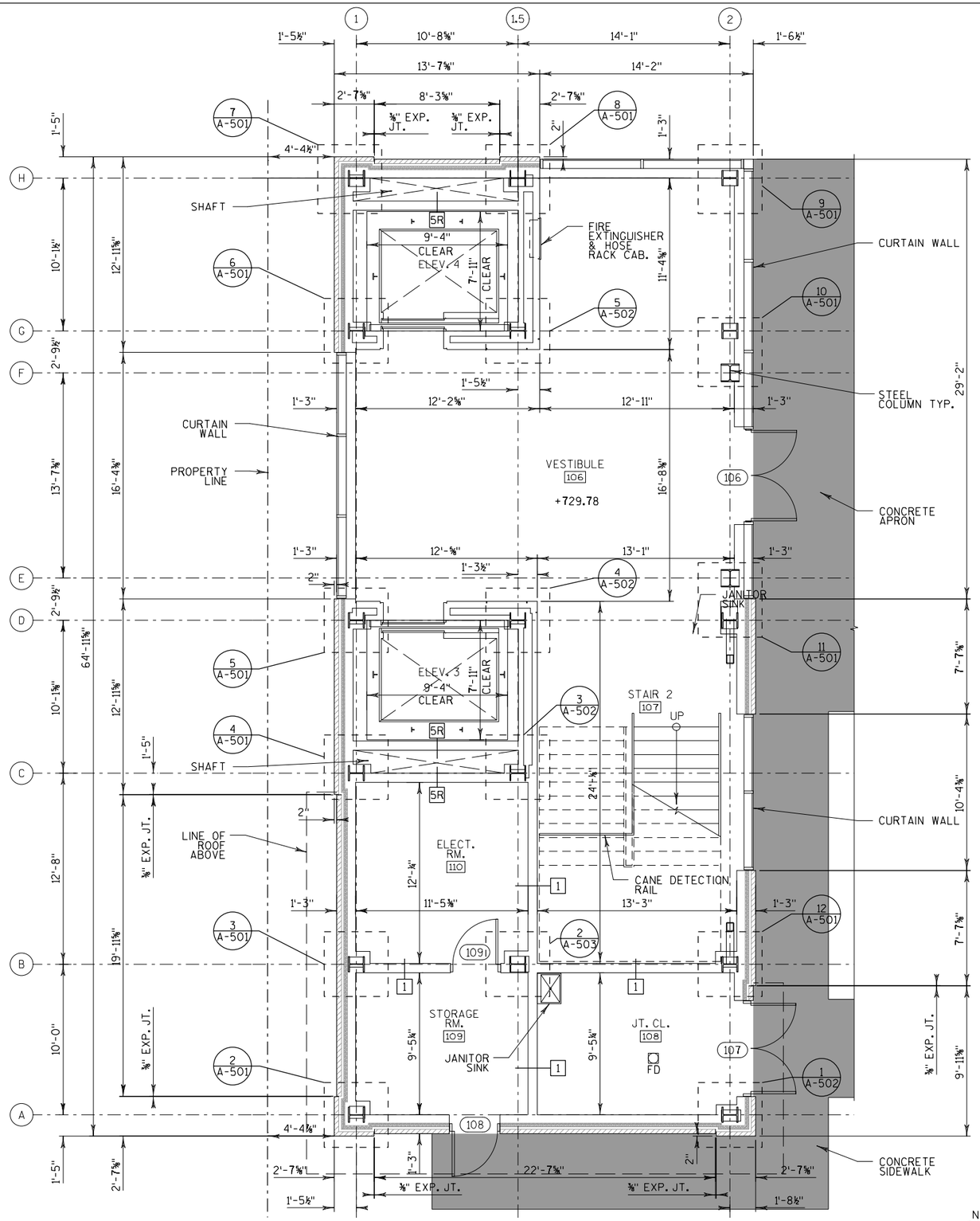
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 A-401 ENLARGED FIRST FLOOR CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

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DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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ENLARGED FIRST FLOOR CONSTRUCTION PLAN

SHEET A-401

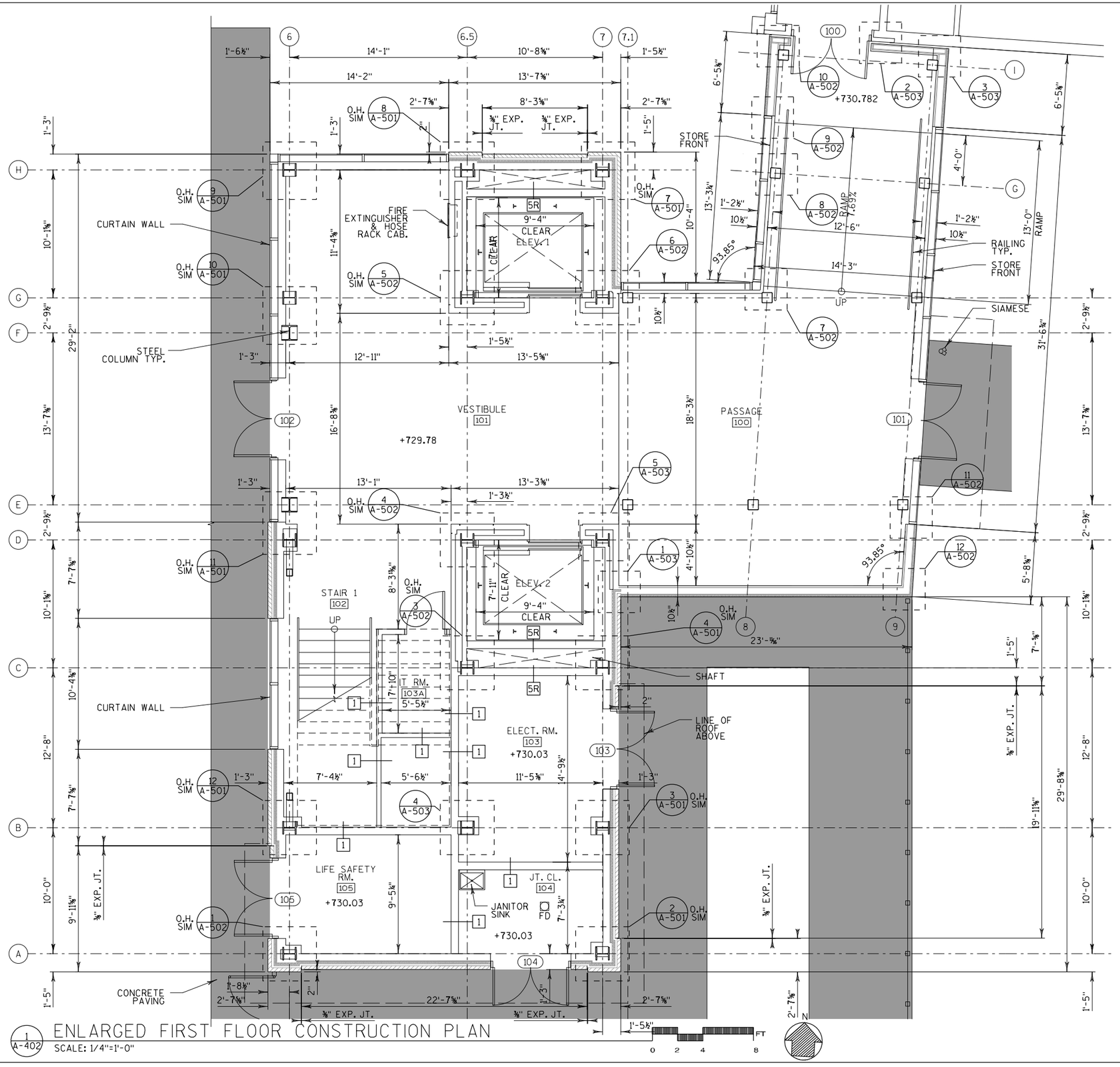
PRE_200

8

8

STATE PROJECT NUMBER

1000-57-05



1 A-402 ENLARGED FIRST FLOOR CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

NO.	DATE	REVISION	BY

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ENLARGED FIRST FLOOR CONSTRUCTION PLAN

SHEET A-402

PRE_201

8

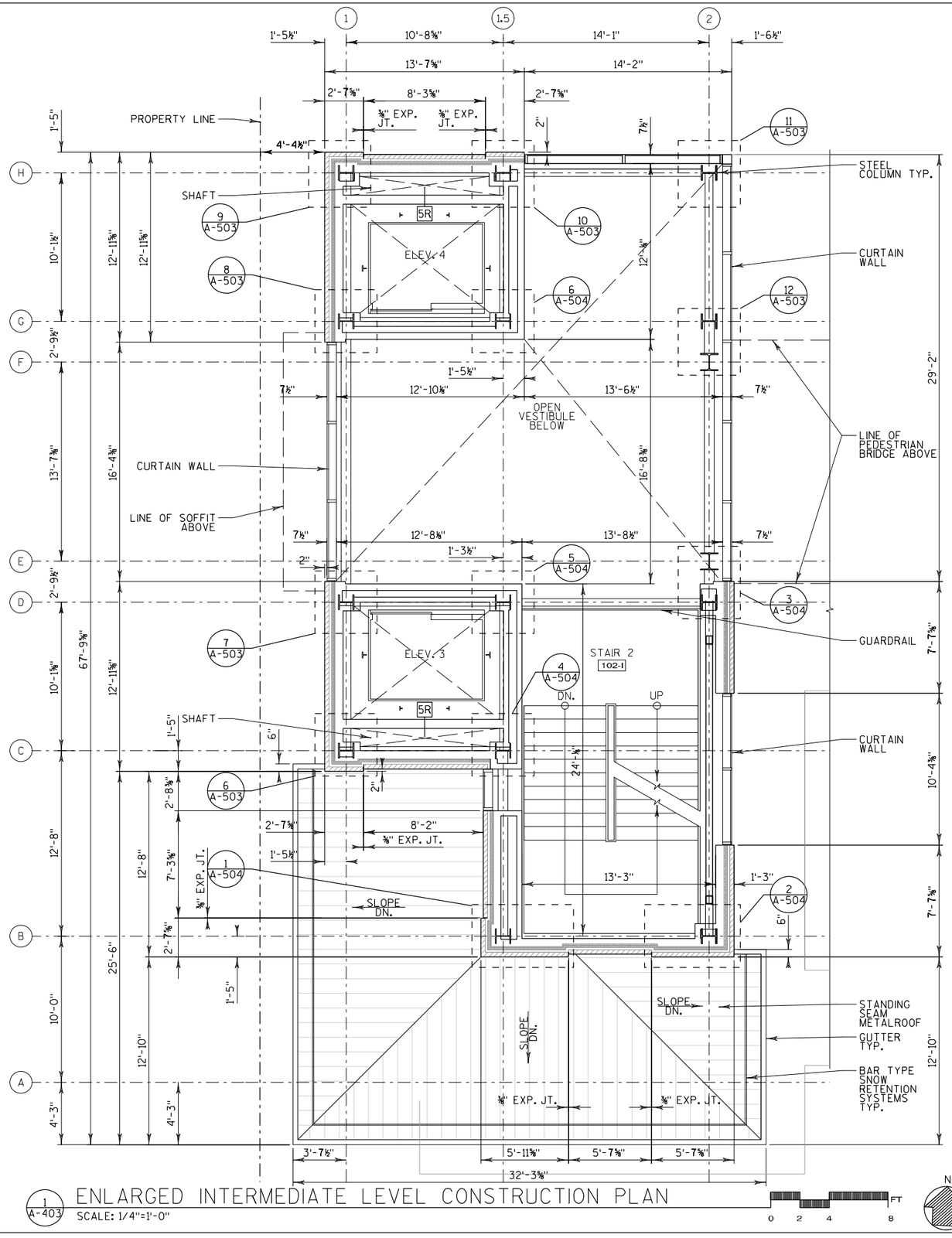
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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 / A-403 ENLARGED INTERMEDIATE LEVEL CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

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ENLARGED INTERMEDIATE LEVEL CONSTRUCTION PLAN

SHEET A-403

PRE_202

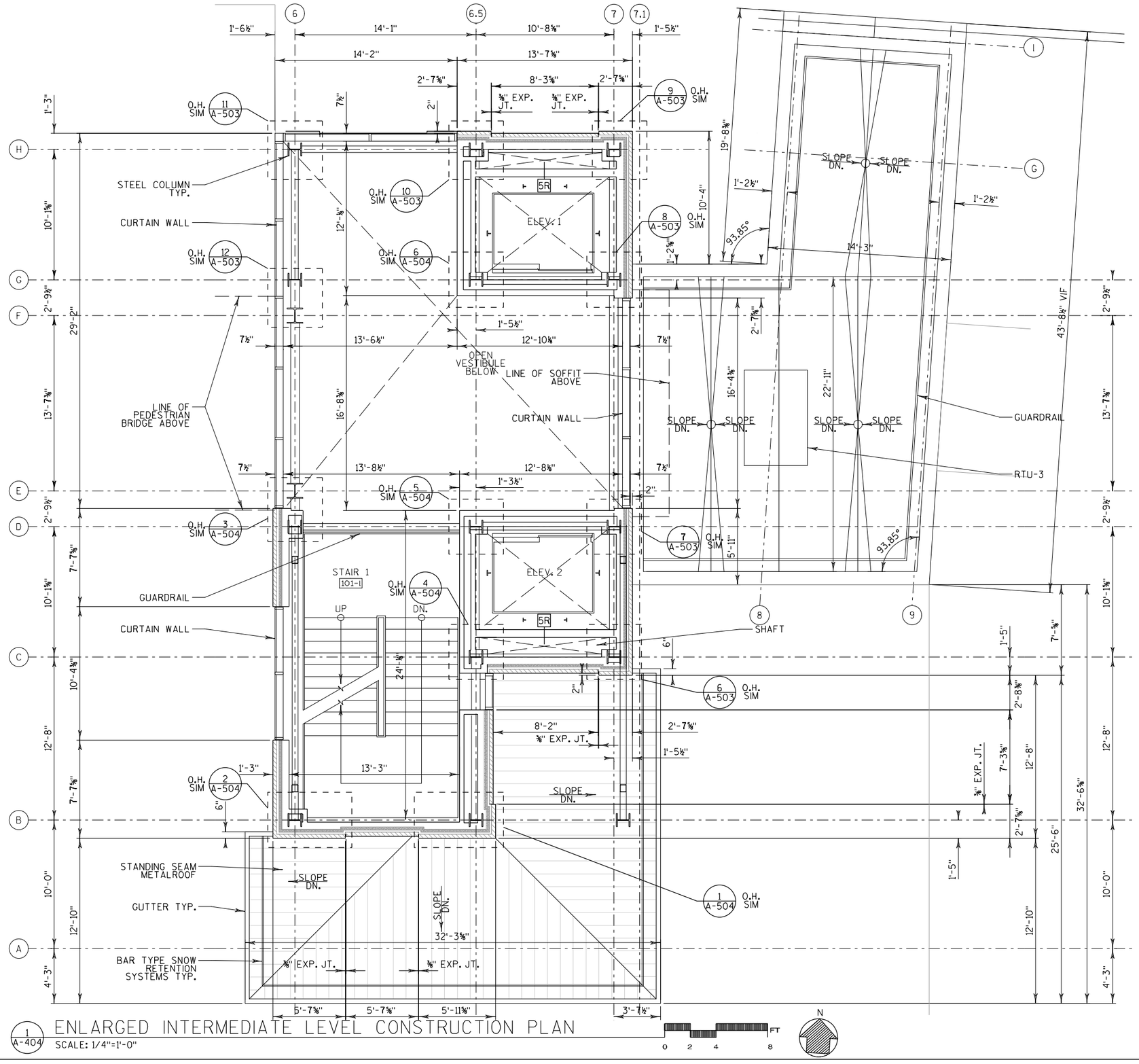
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 A-404 ENLARGED INTERMEDIATE LEVEL CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

NO.	DATE	REVISION	BY

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ENLARGED INTERMEDIATE LEVEL CONSTRUCTION PLAN

SHEET A-404

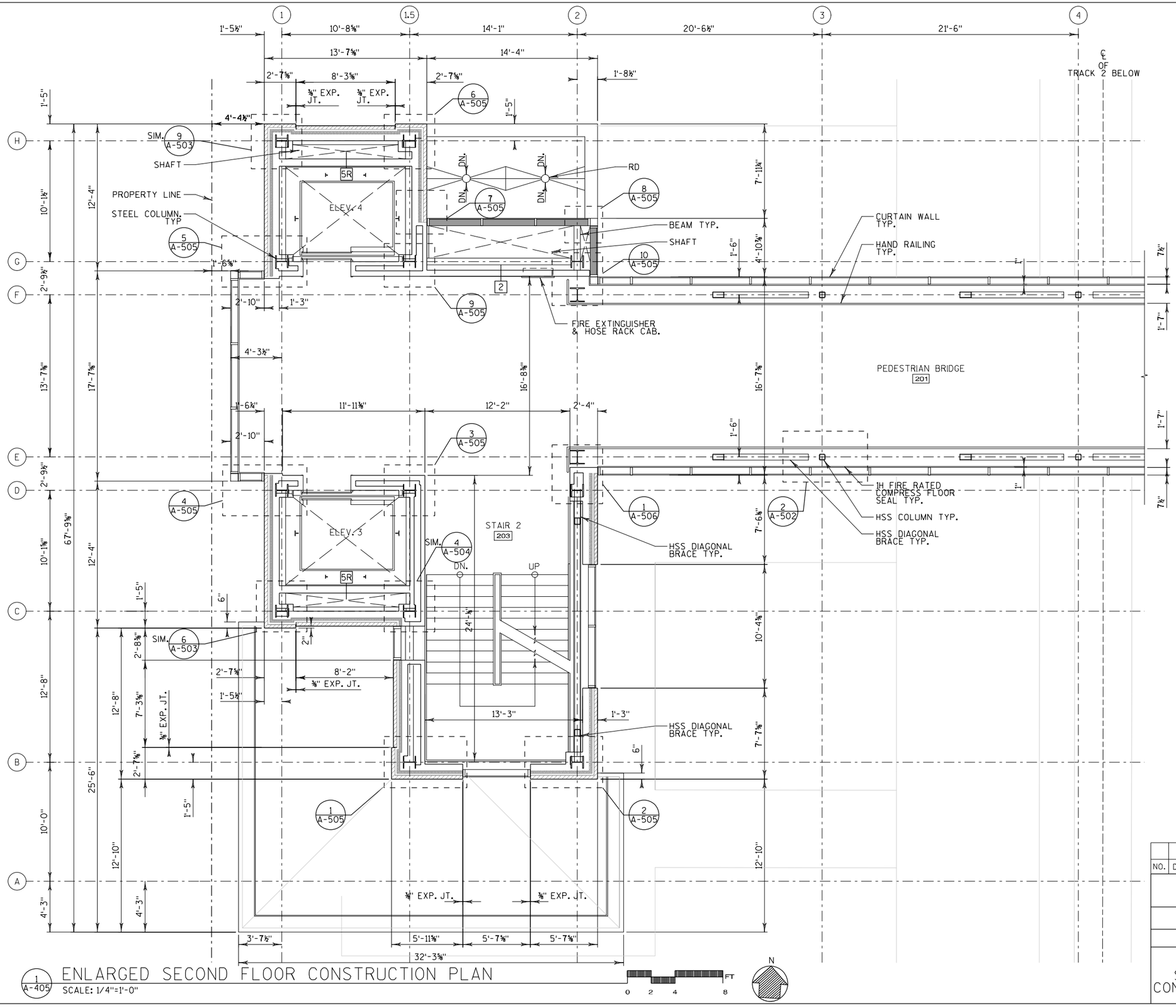
PRE_203

8

8

STATE PROJECT NUMBER

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1 A-405 ENLARGED SECOND FLOOR CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

NO.	DATE	REVISION	BY

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ARCHITECTURAL

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ENLARGED SECOND FLOOR CONSTRUCTION PLAN

SHEET A-405

PRE_204

8

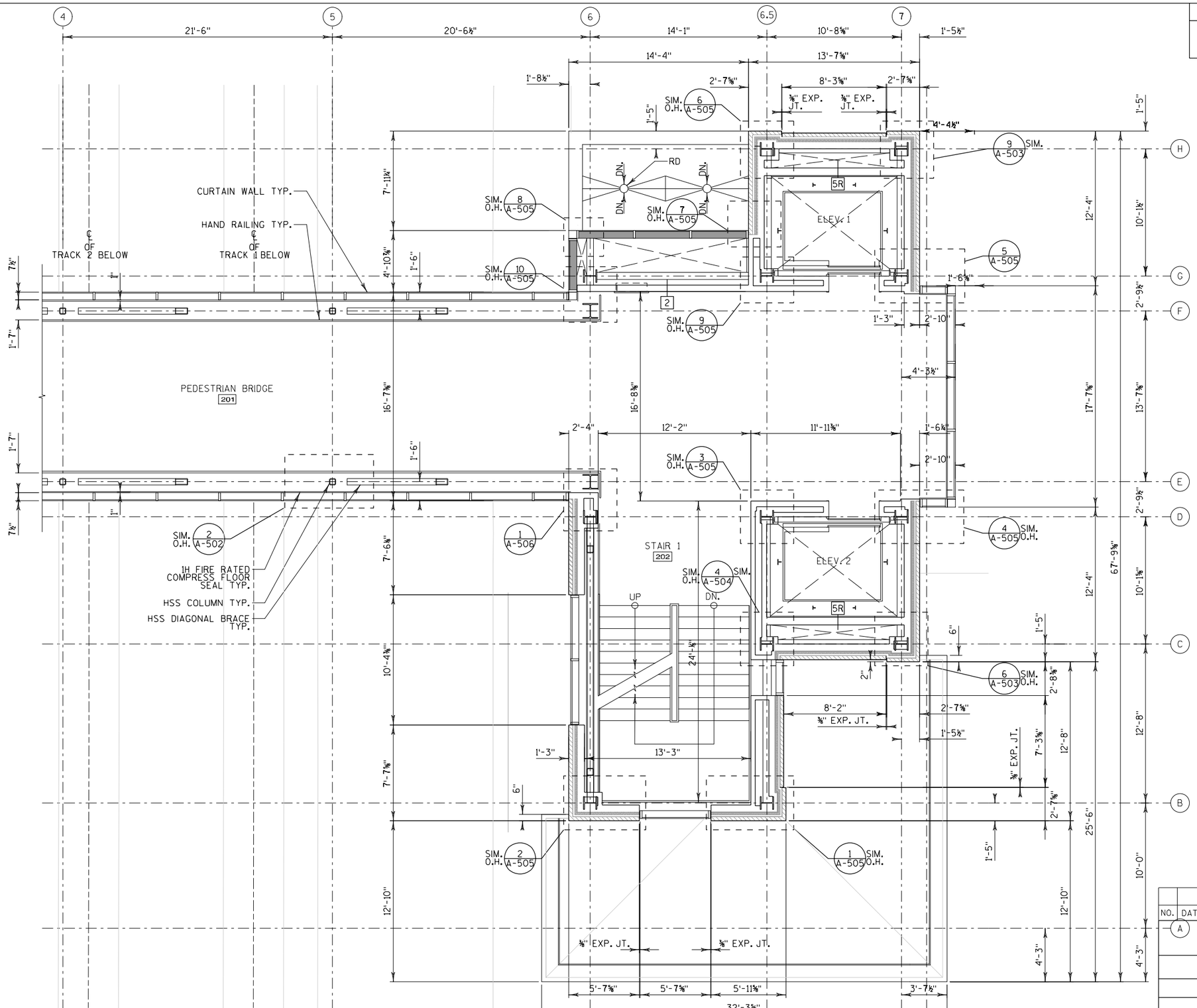
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BATCH PRINT SHEET CSD OF NSD

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
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1 A-406 ENLARGED SECOND FLOOR CONSTRUCTION PLAN
SCALE: 1/4"=1'-0"

NO.	DATE	REVISION	BY
A		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

ARCHITECTURAL

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ENLARGED SECOND FLOOR CONSTRUCTION PLAN

SHEET A-406

PRE_205

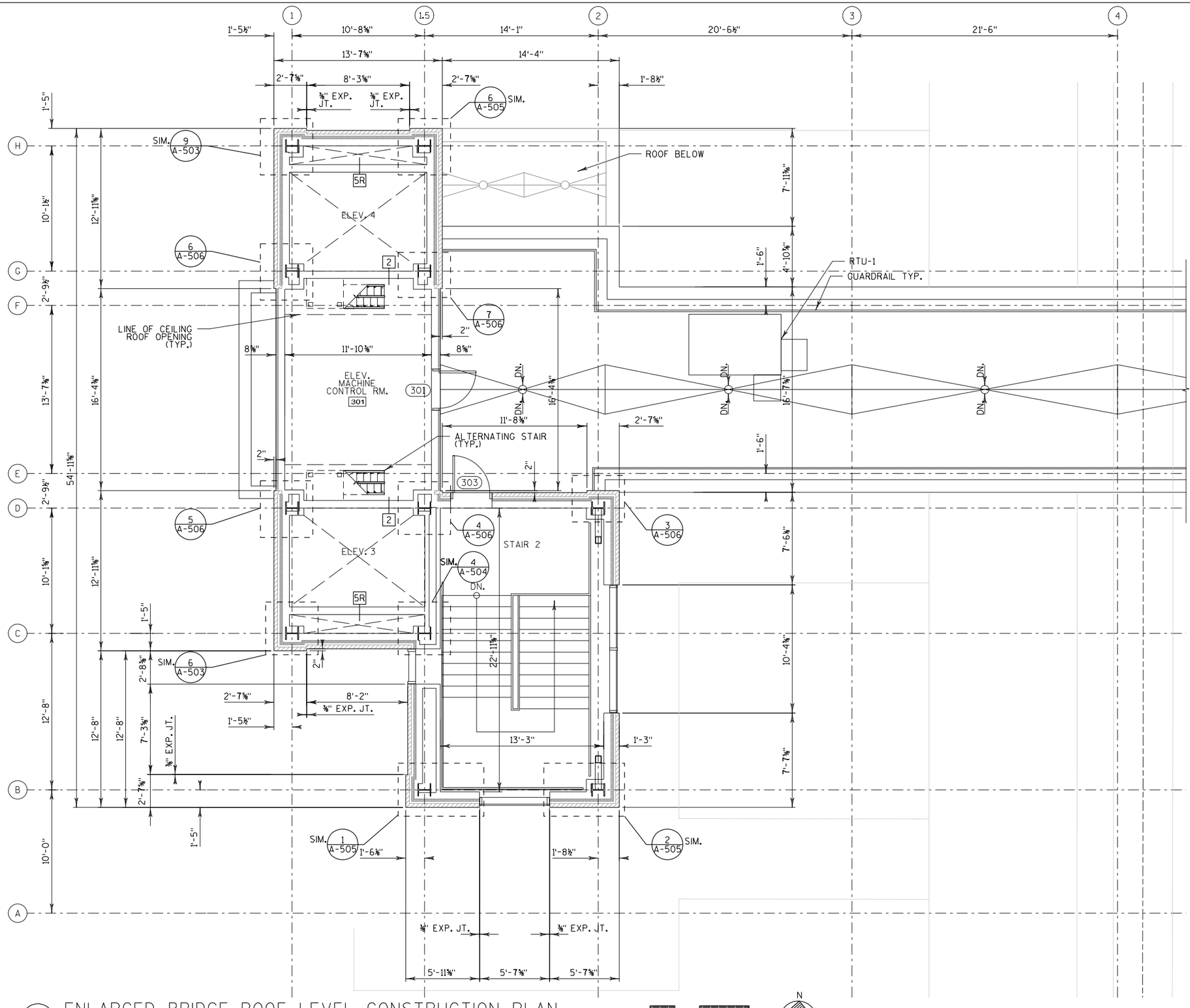
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plotingdate...$$ PLOT TIME: $$...plotingtime...$$

STATE PROJECT NUMBER

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1 A-407 ENLARGED BRIDGE ROOF LEVEL CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

NO.	DATE	REVISION	BY

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ENLARGED BRIDGE ROOF LEVEL CONSTRUCTION PLAN

SHEET A-407

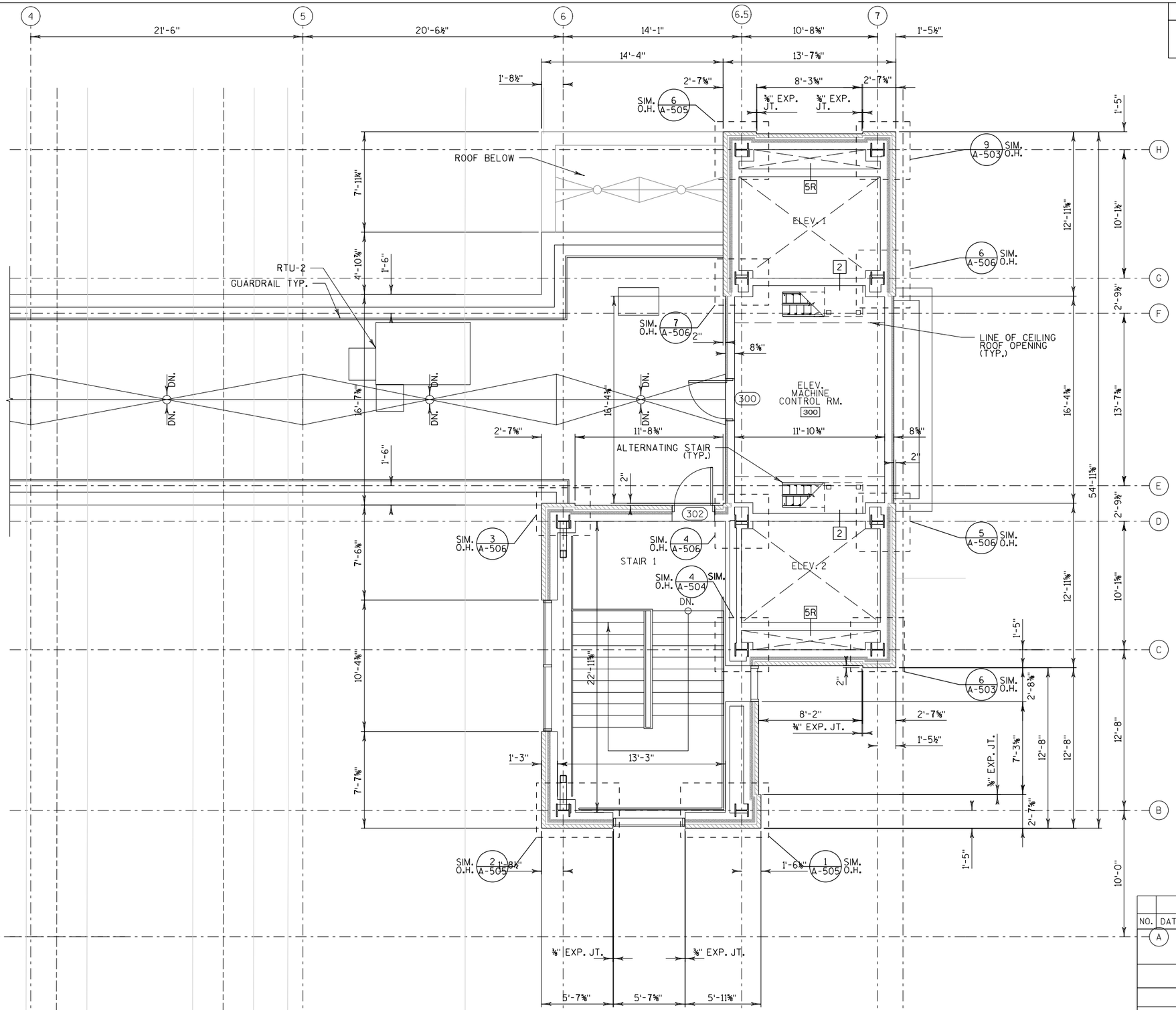
PRE_206

8

8

STATE PROJECT NUMBER

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1 A-408 ENLARGED BRIDGE ROOF LEVEL CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

NO.	DATE	REVISION	BY
A		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

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ENLARGED BRIDGE ROOF LEVEL CONSTRUCTION PLAN

SHEET A-408

PRE_207

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable..$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

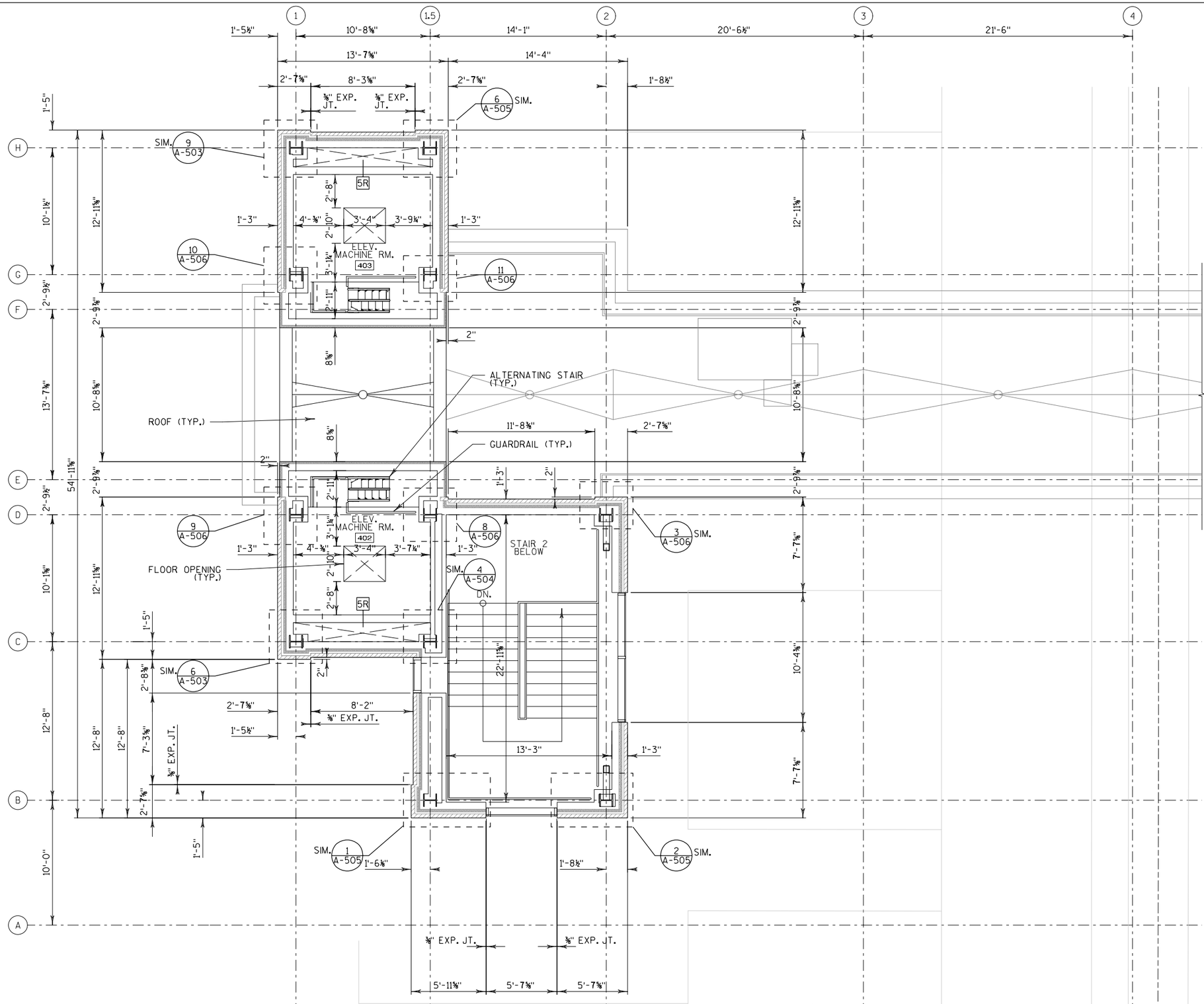
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable..$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05



1 A-409 ENLARGED ELEVATOR MACHINE LEVEL CONSTRUCTION PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

N

NO.	DATE	REVISION	BY

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ENLARGED ELEVATOR MACHINE LEVEL CONSTRUCTION PLAN

SHEET A-409

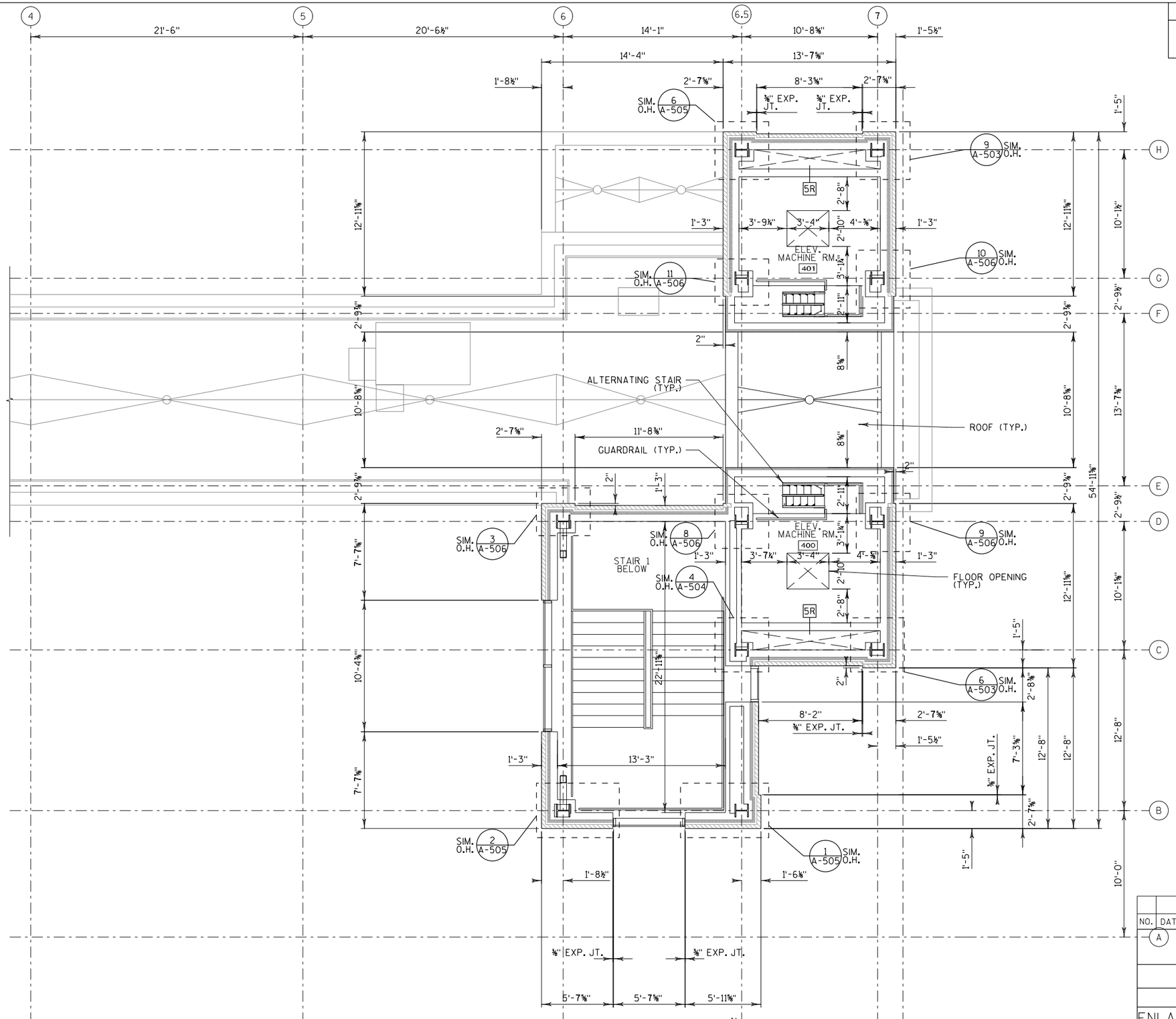
PRE_208

8

8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER
1000-57-05



1 / A-410 ENLARGED ELEVATOR MACHINE LEVEL CONSTRUCTION PLAN
SCALE: 1/4"=1'-0"

NO.	DATE	REVISION	BY
A		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

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ENLARGED ELEVATOR MACHINE LEVEL CONSTRUCTION PLAN

SHEET A-410

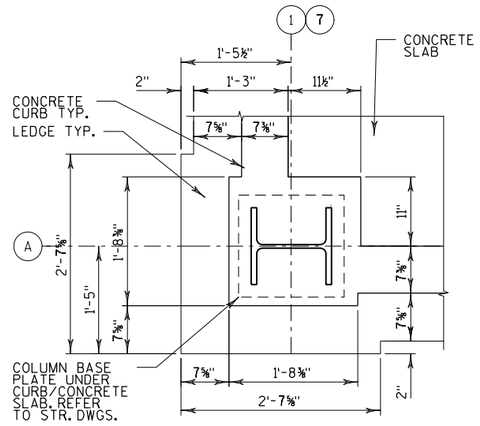
PRE_209

8

8

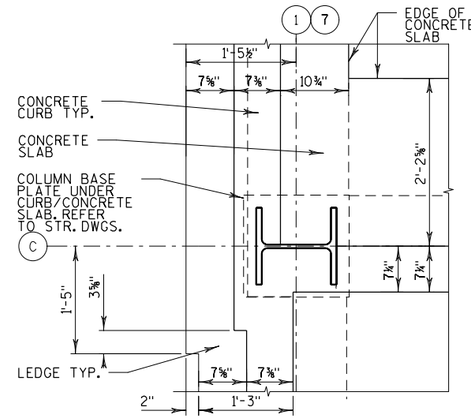
STATE PROJECT NUMBER

1000-57-05



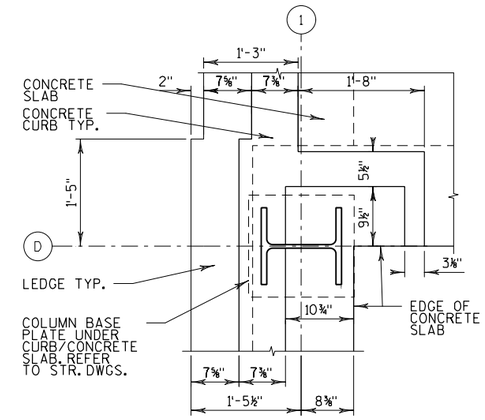
1 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



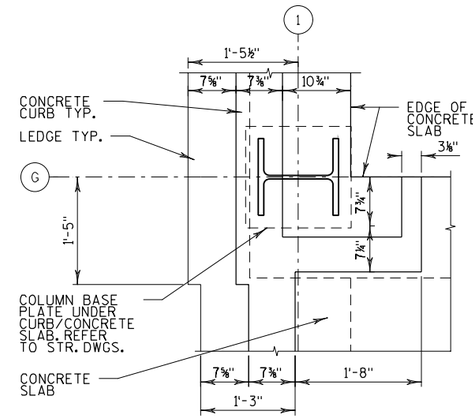
2 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



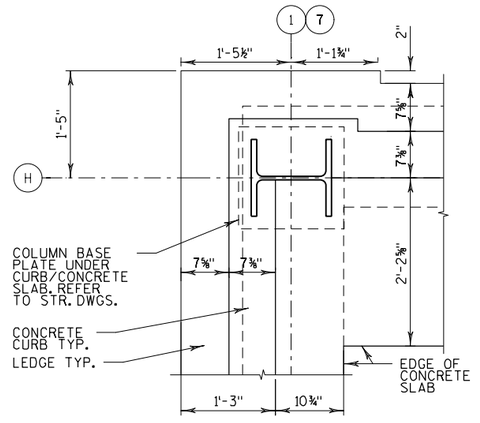
3 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



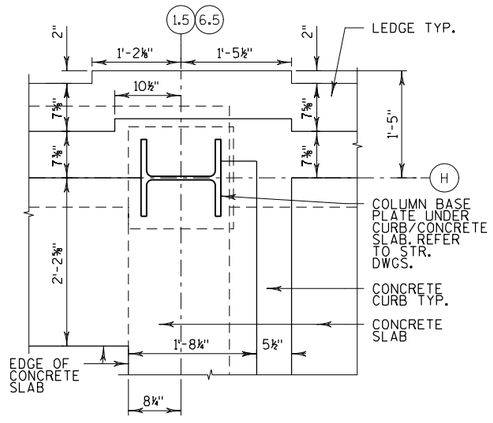
4 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



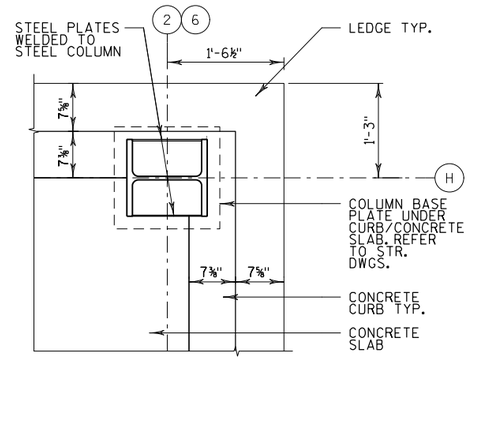
5 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



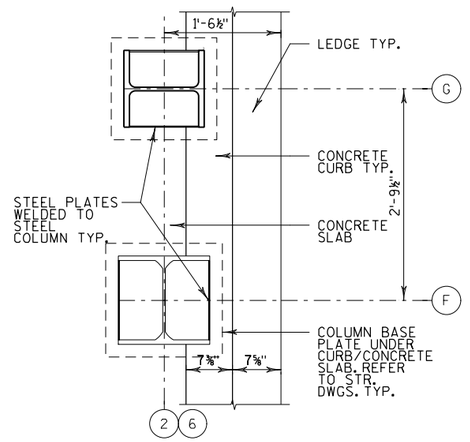
6 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



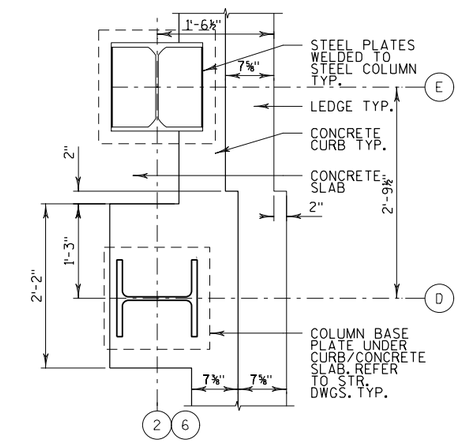
7 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



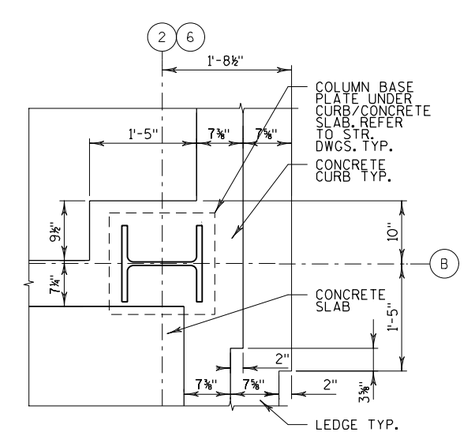
8 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



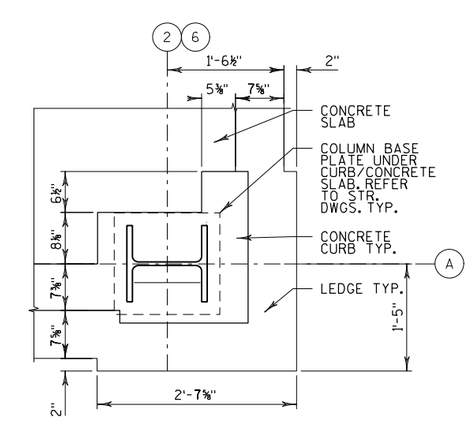
9 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



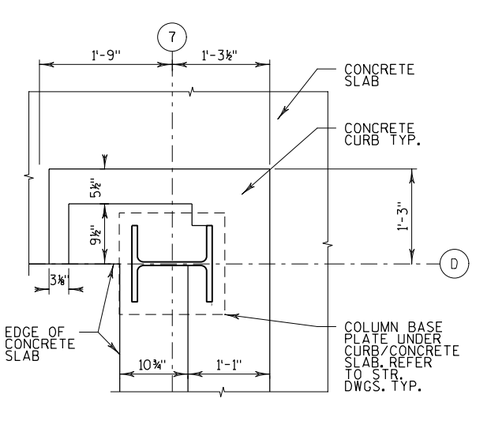
10 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



11 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



12 A-500 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"

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FLOOR PLAN DETAILS

SHEET A-500

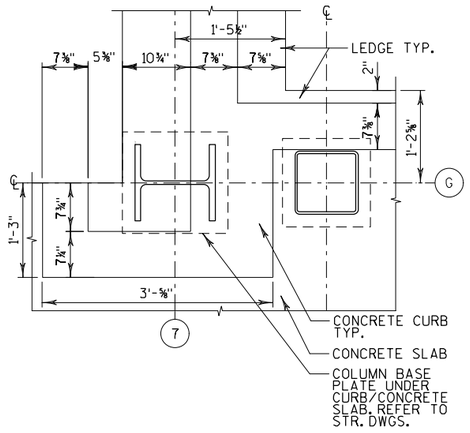
PRE_210

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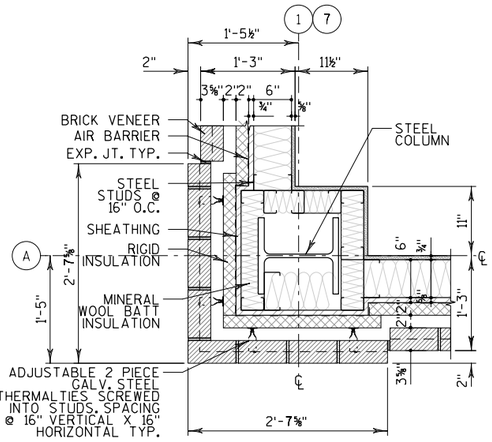
8

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

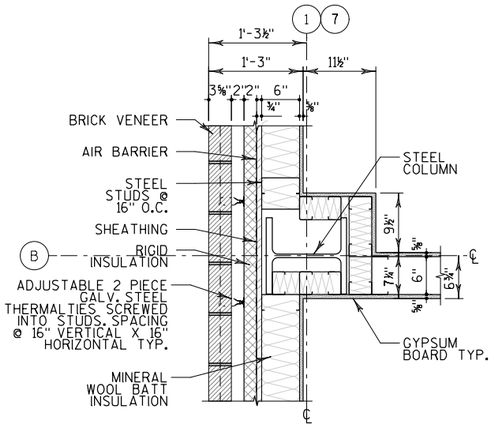
STATE PROJECT NUMBER
1000-57-05



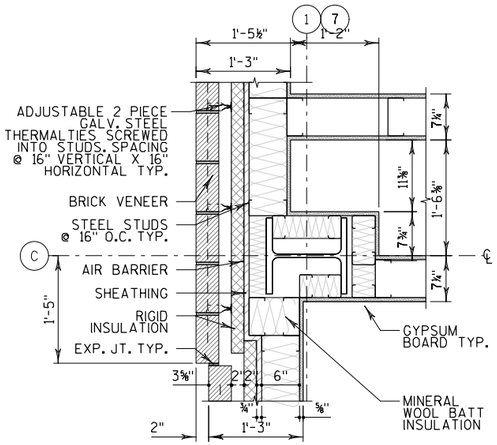
1 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



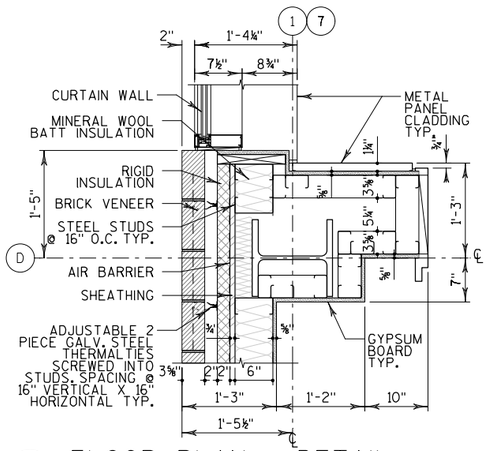
2 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



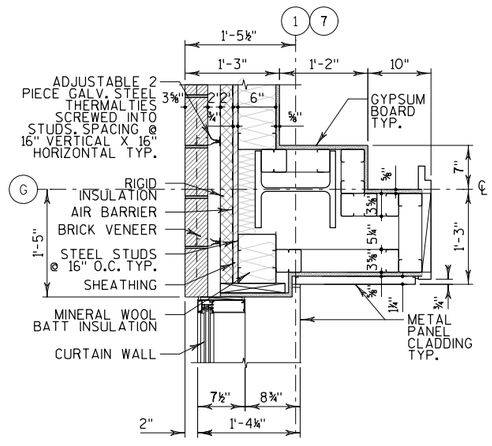
3 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



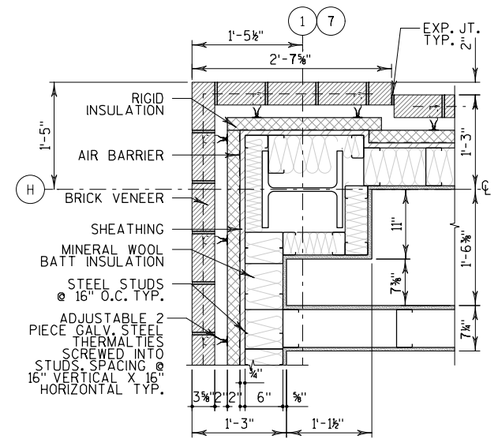
4 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



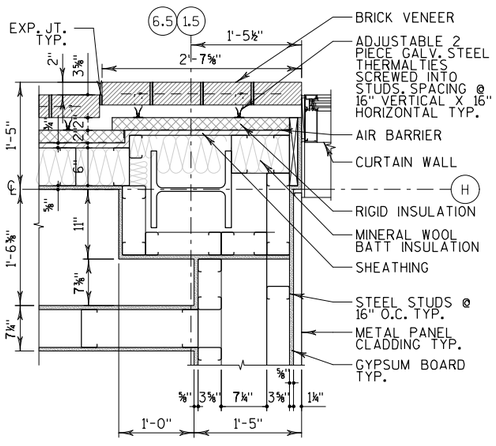
5 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



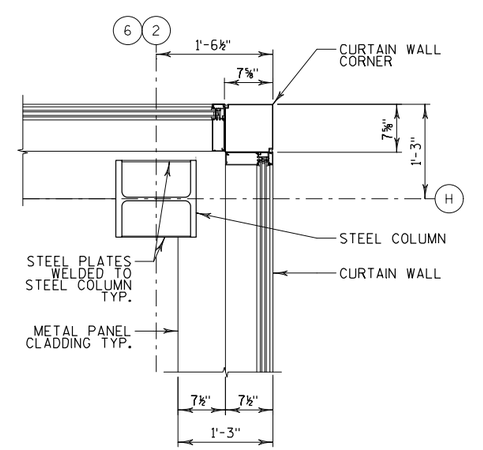
6 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



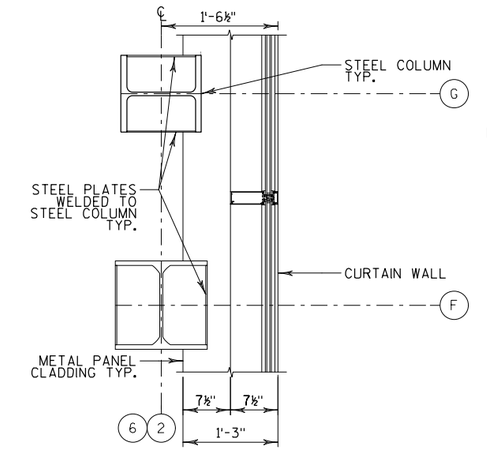
7 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



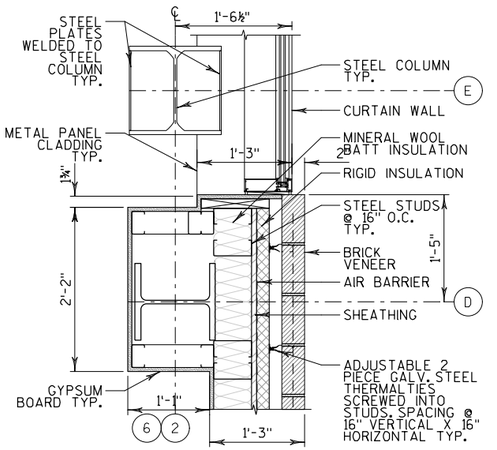
8 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



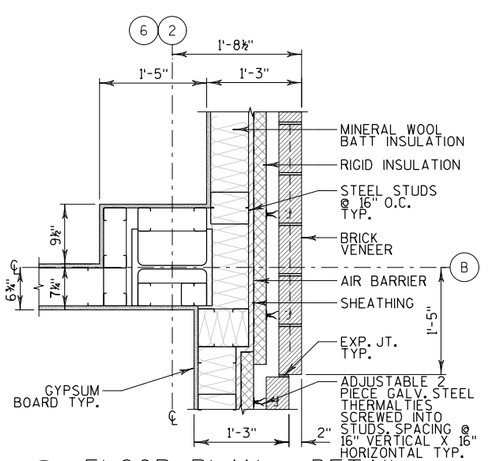
9 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



10 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



11 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"



12 A-501 FLOOR PLAN - DETAIL
SCALE: 1"=1'-0"

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DEPARTMENT OF TRANSPORTATION

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FLOOR PLAN DETAILS

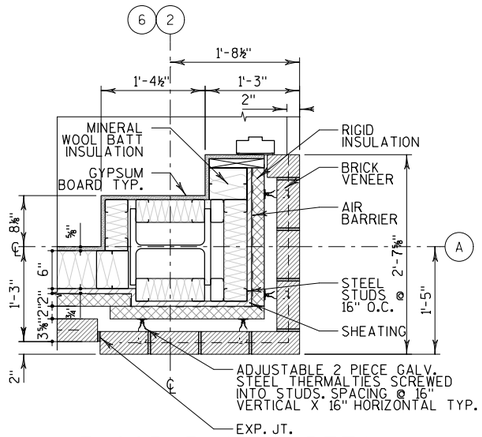
SHEET A-501
PRE_211

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$ BATCH PRINT SHEET CSD OF NSD

8

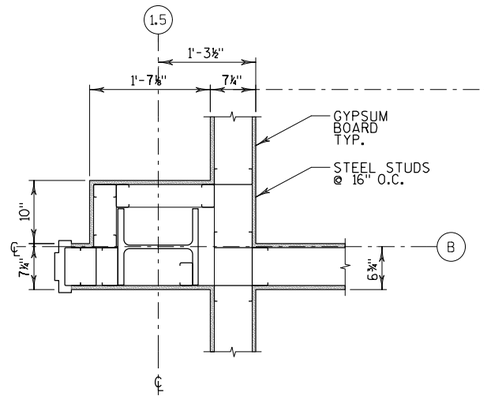
STATE PROJECT NUMBER

1000-57-05



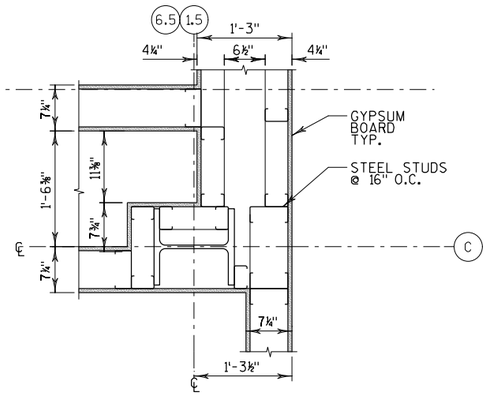
1 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



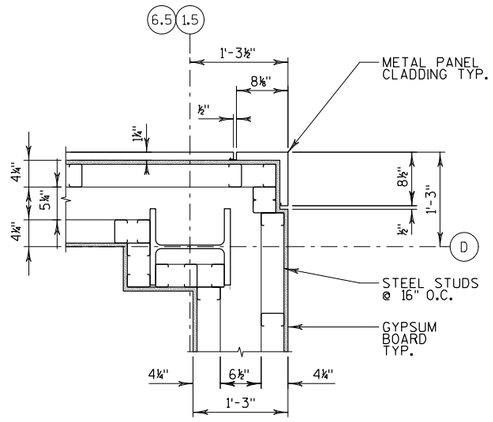
2 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



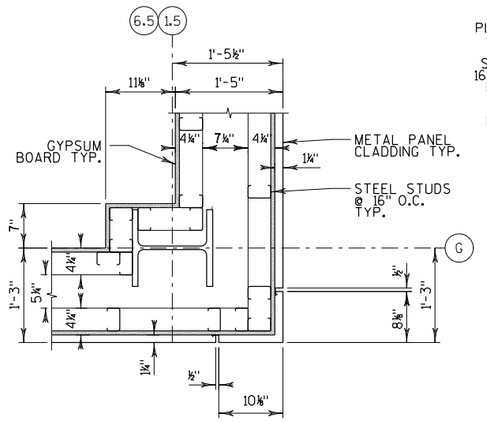
3 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



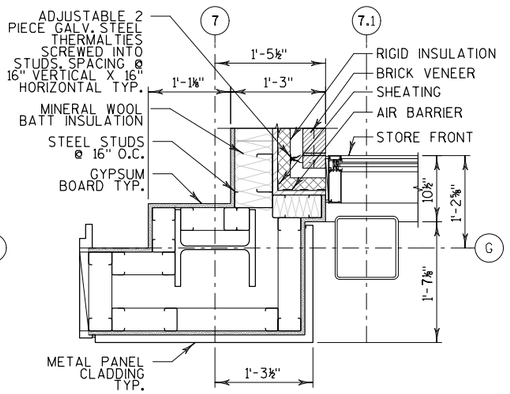
4 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



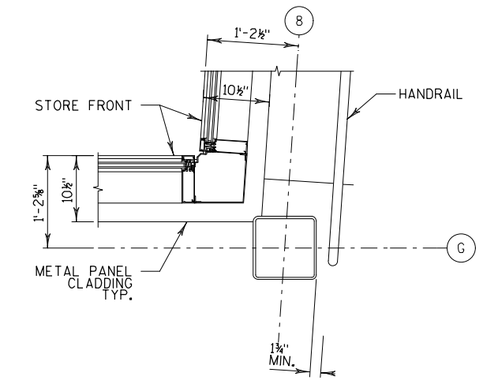
5 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



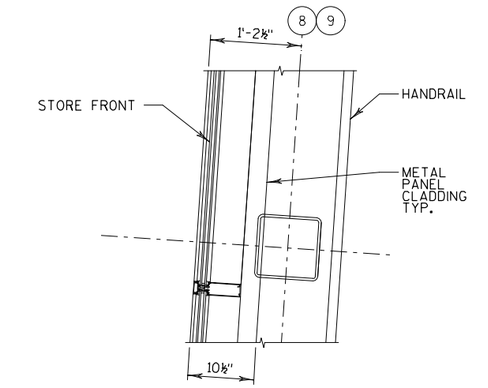
6 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



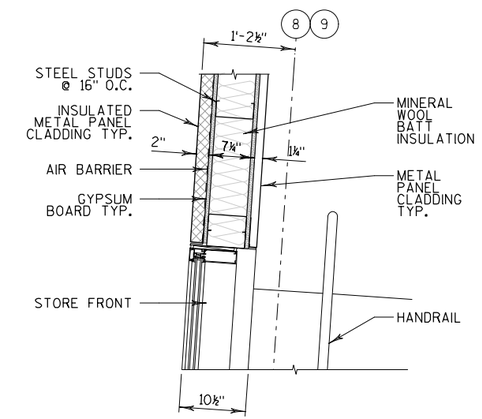
7 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



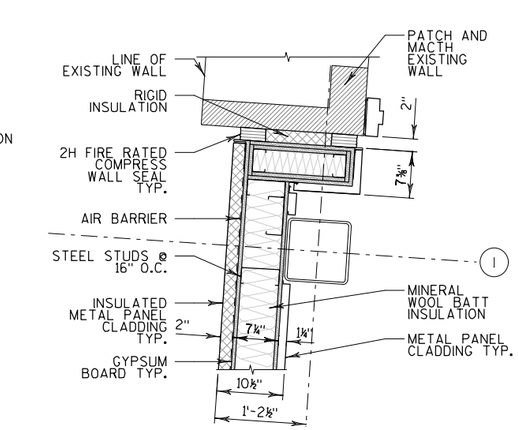
8 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



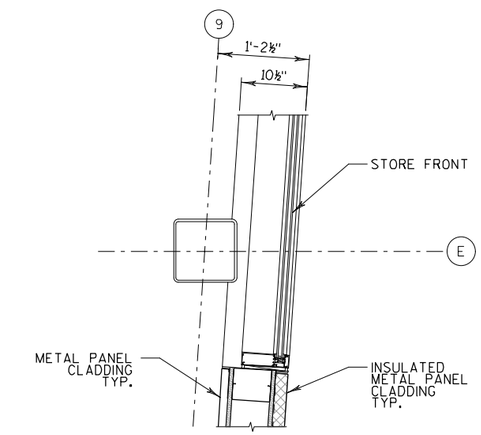
9 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



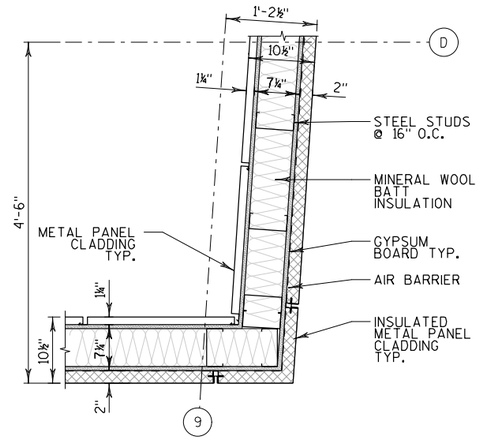
10 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



11 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"



12 A-502 FLOOR PLAN - DETAIL

SCALE: 1"=1'-0"

NO.	DATE	REVISION	BY

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FLOOR PLAN DETAILS

SHEET A-502

PRE_212

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

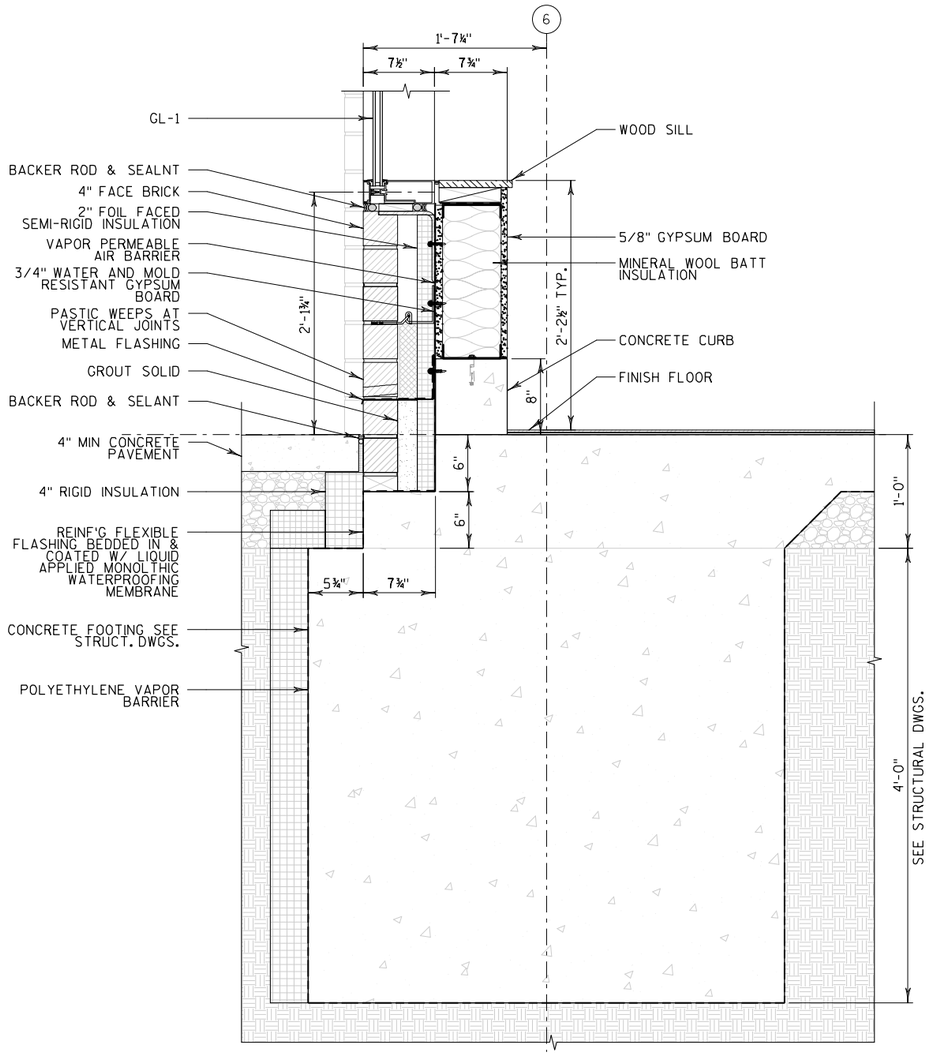
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$..printerdriver...$$
PEN TABLE: $$..pentable..$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$..plottingdate...$$ PLOT TIME: $$..plottingtime..$$

STATE PROJECT NUMBER

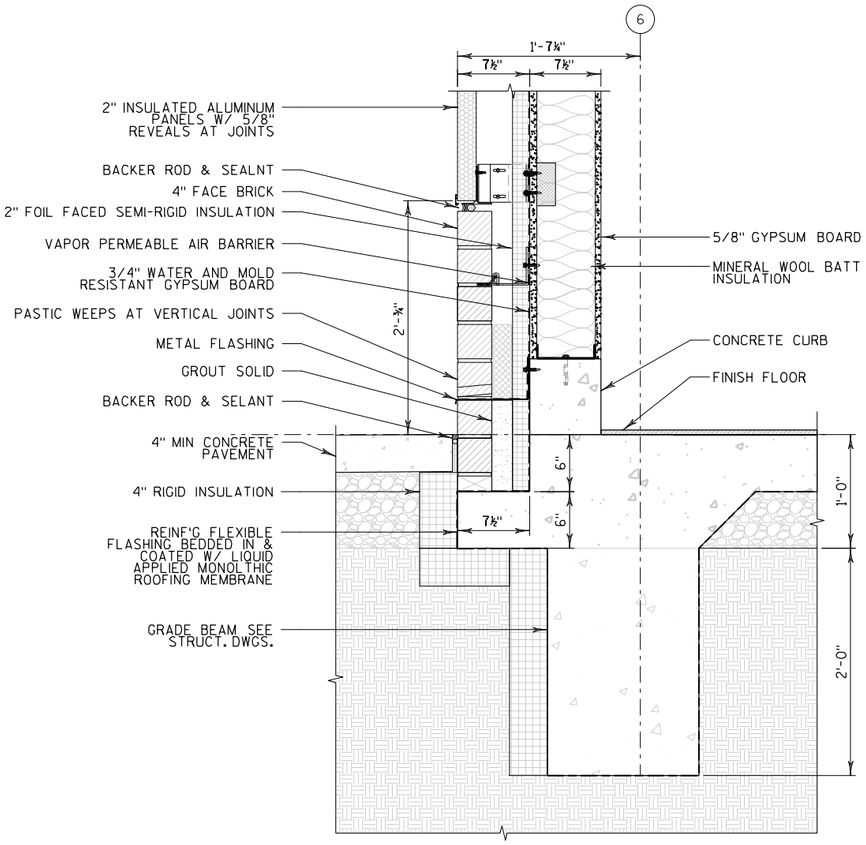
1000-57-05



3 A-510 SECTION DETAIL - STOREFRONT

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

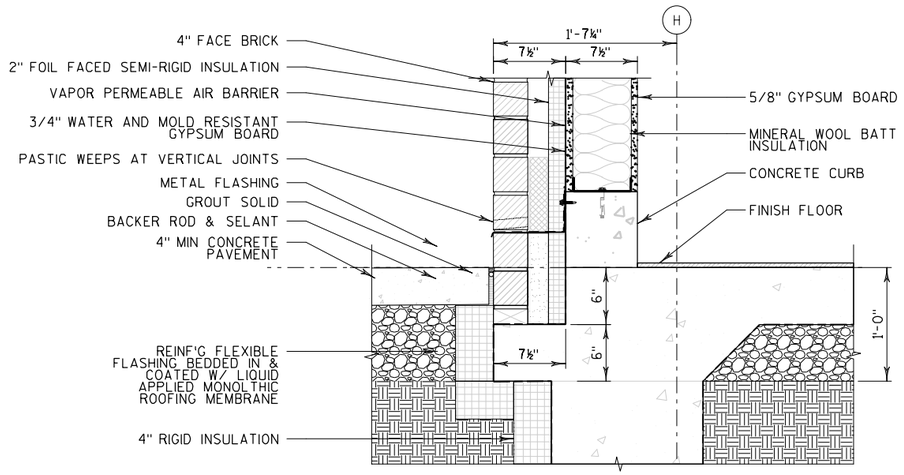
0 4 8 16 IN



2 A-510 SECTION DETAIL - STOREFRONT

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

0 4 8 16 IN



1 A-510 SECTION DETAIL - MASONRY WALL

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

0 4 8 16 IN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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WALL SECTIONS DETAILS

SHEET A-510

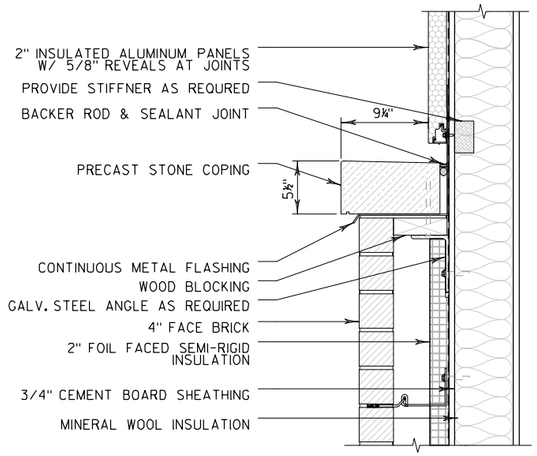
PRE_213

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STATE PROJECT NUMBER

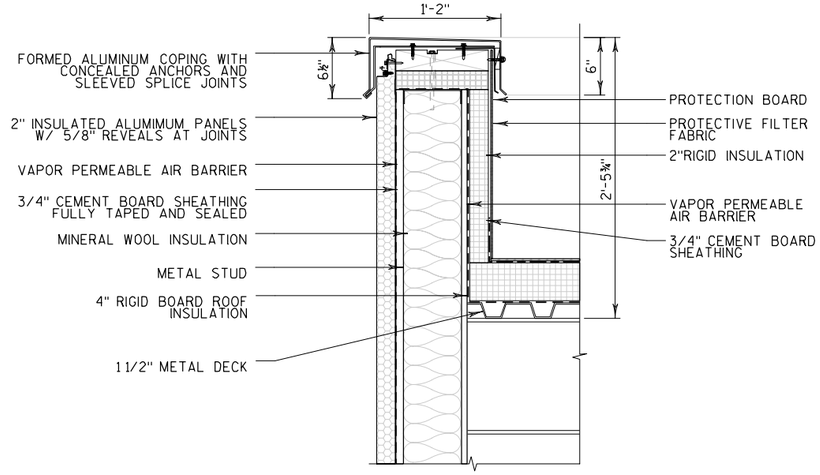
1000-57-05



5 A-511 SECTION DETAIL - PARAPET

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

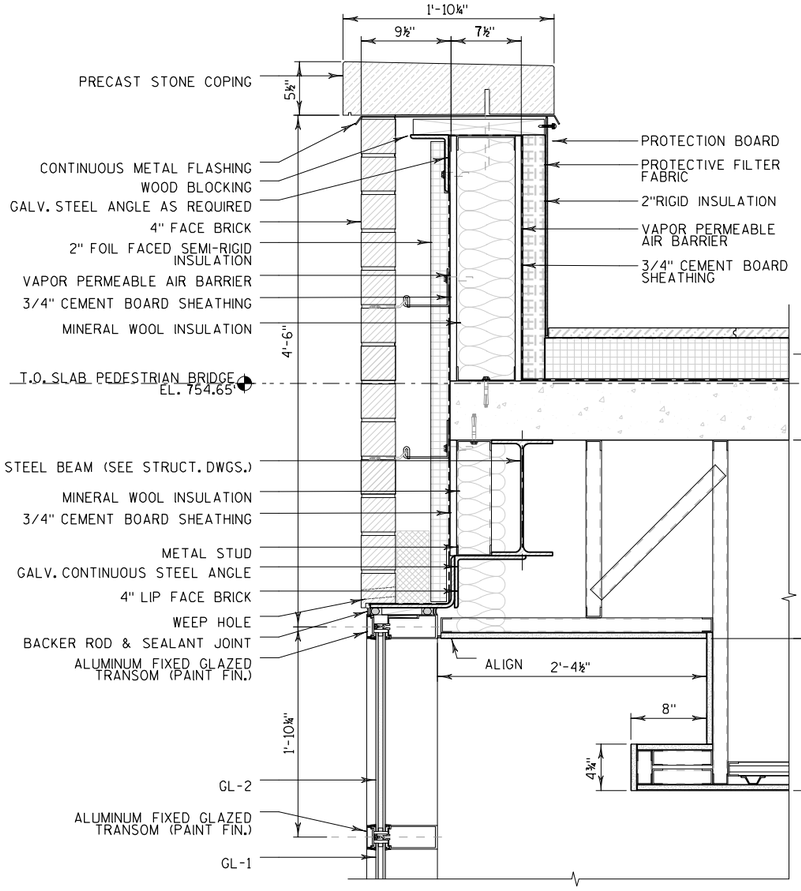
0 4 8 16 IN



3 A-511 SECTION DETAIL - PARAPET

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

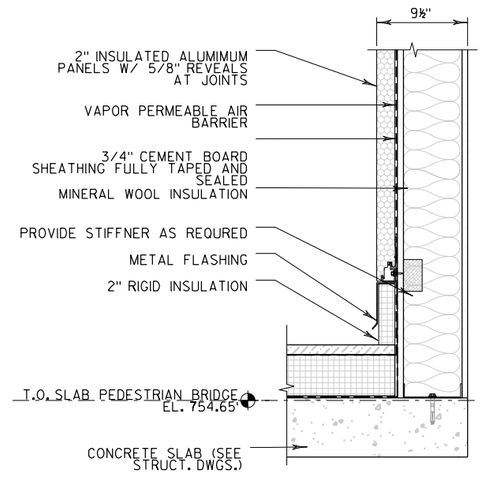
0 4 8 16 IN



4 A-511 SECTION DETAIL - PARAPET

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

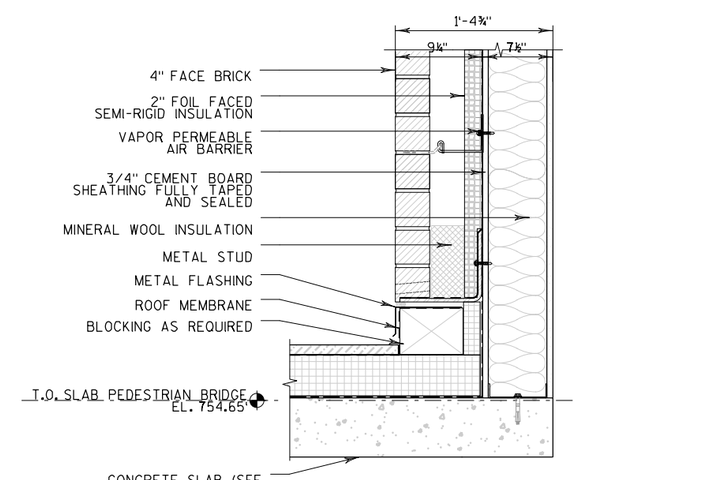
0 4 8 16 IN



2 A-511 SECTION DETAIL - ROOF

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

0 4 8 16 IN



1 A-511 SECTION DETAIL - ROOF

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

0 4 8 16 IN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

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WALL SECTIONS DETAILS

SHEET A-511

PRE_214

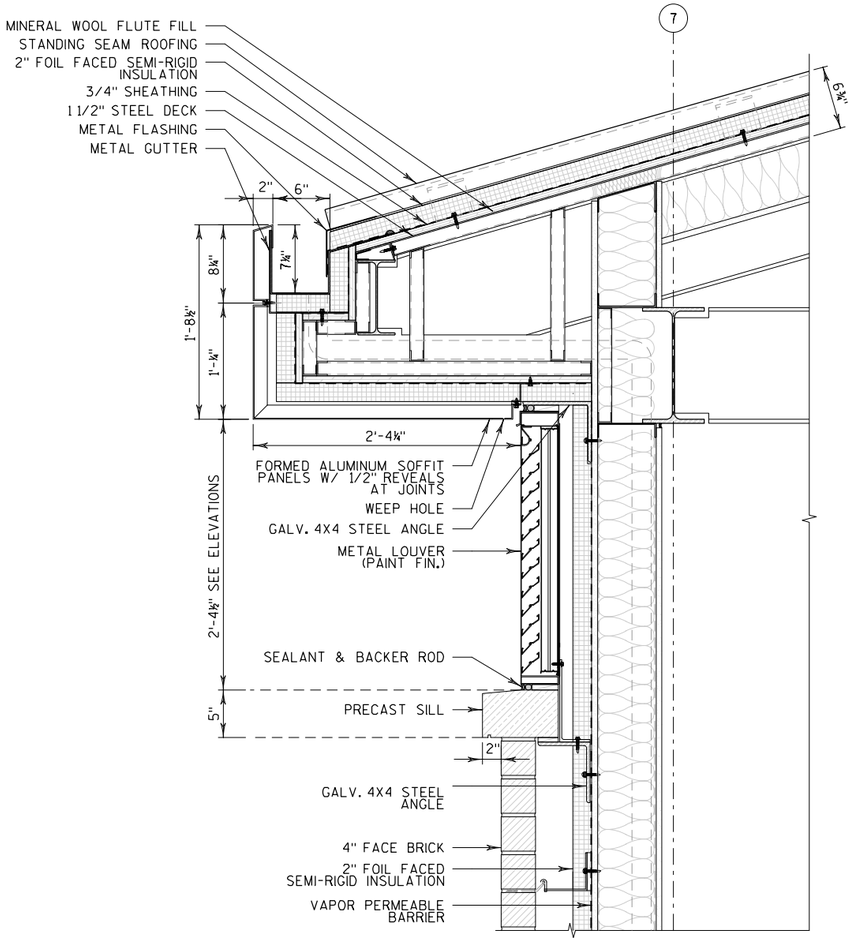
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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$
PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

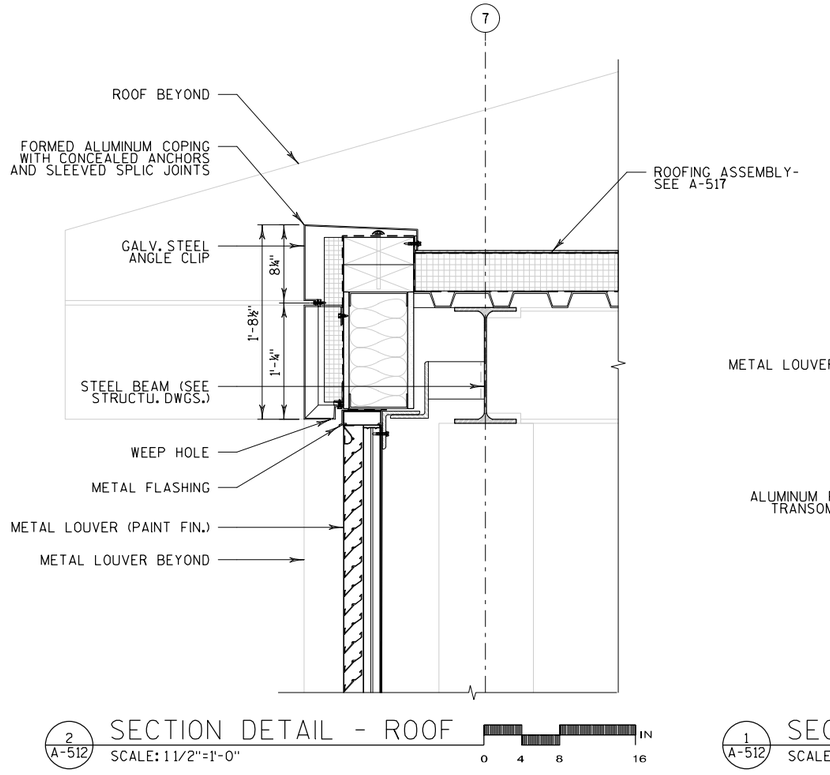
1000-57-05



3 A-512 SECTION DETAIL - ROOF

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

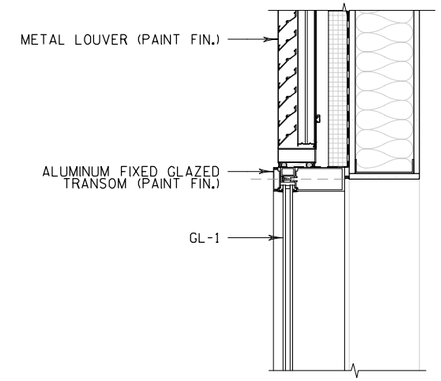
0 4 8 16 IN



2 A-512 SECTION DETAIL - ROOF

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

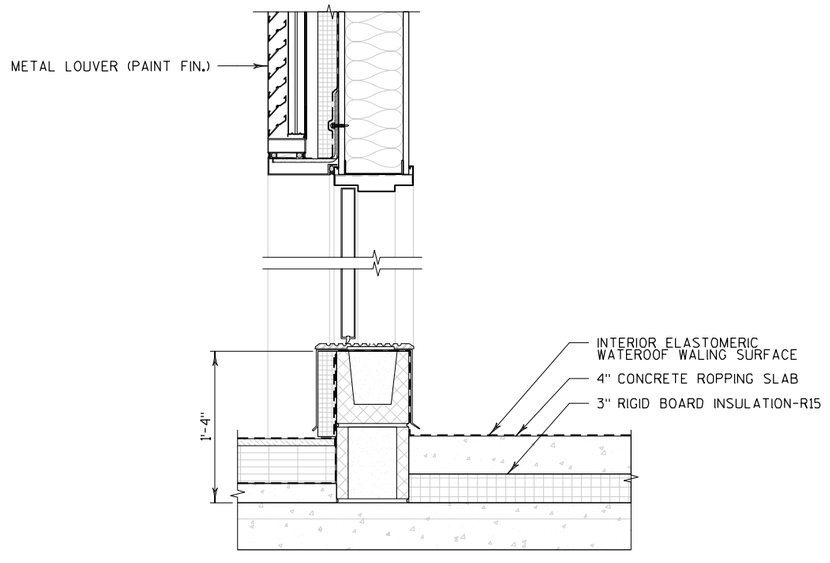
0 4 8 16 IN



1 A-512 SECTION DETAIL - ROOF

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

0 4 8 16 IN



4 A-512 SECTION DETAIL - DOOR @ LOUVER

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

0 4 8 16 IN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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WALL SECTIONS DETAILS

SHEET A-512

PRE_215

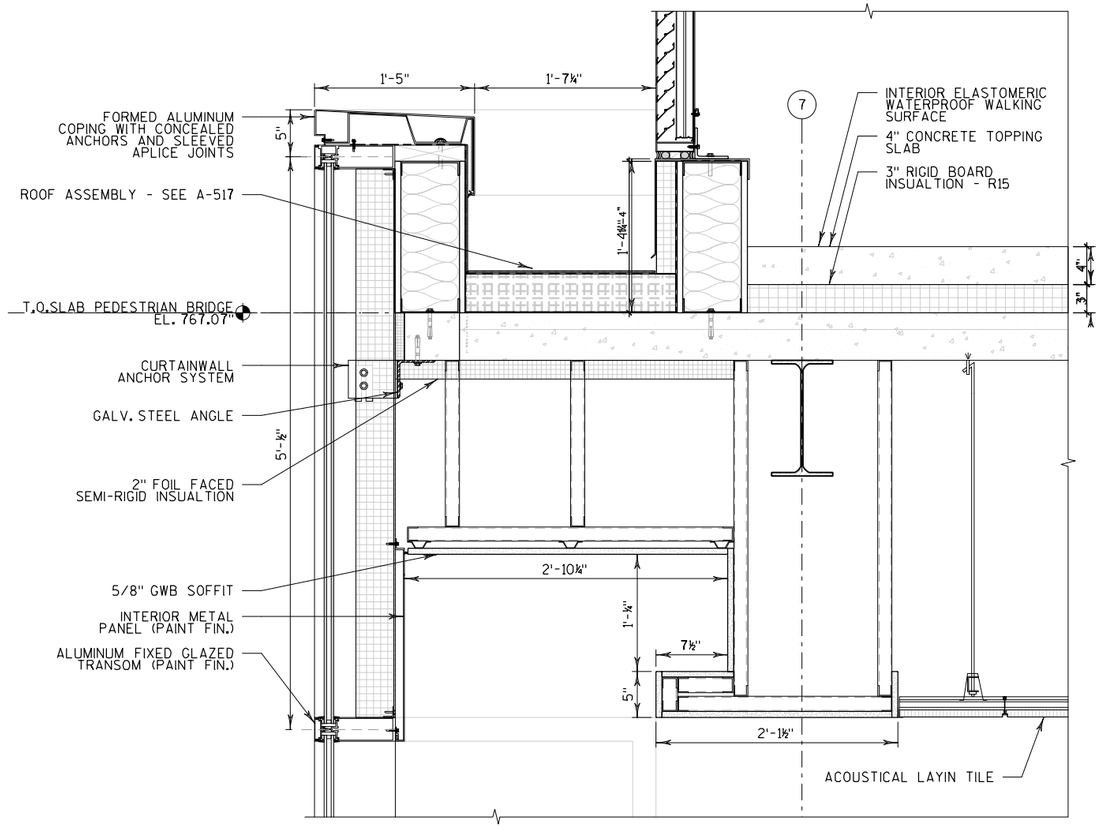
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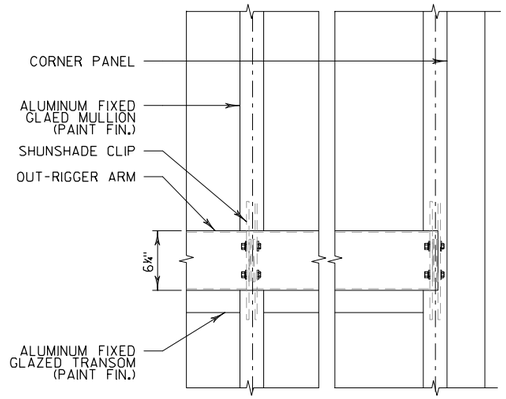
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

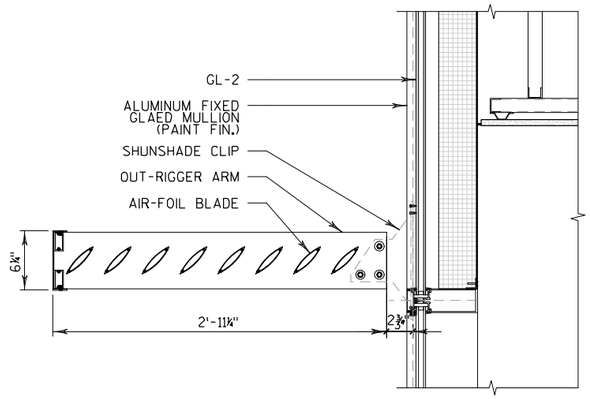
STATE PROJECT NUMBER

1000-57-05

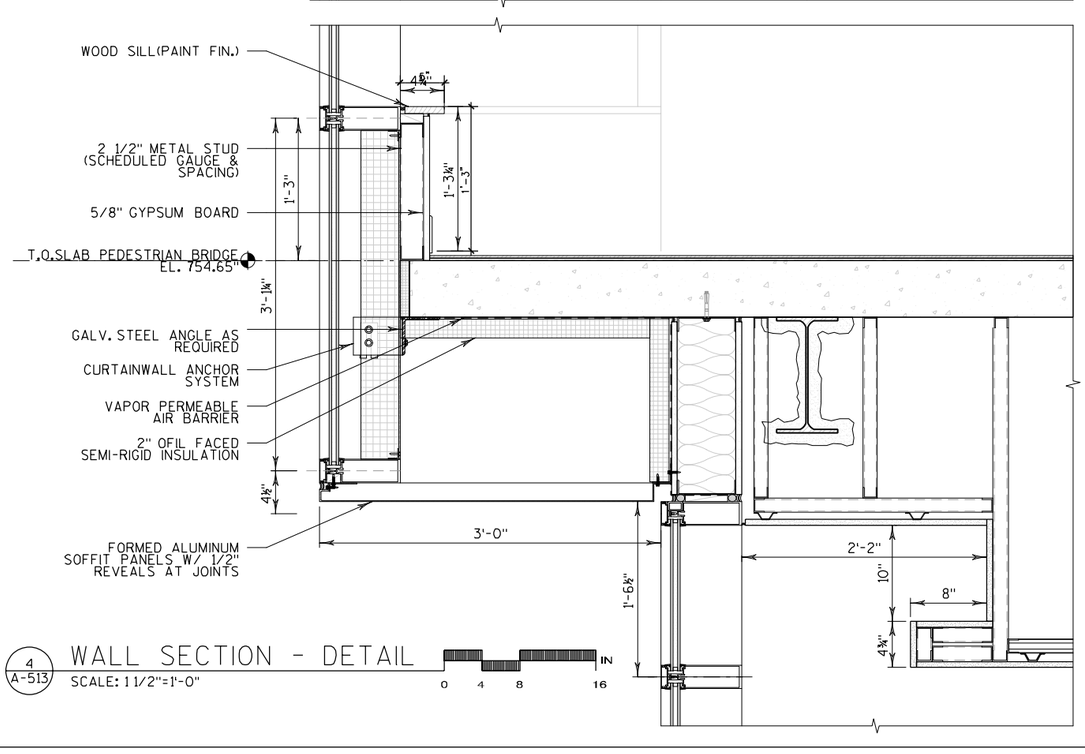




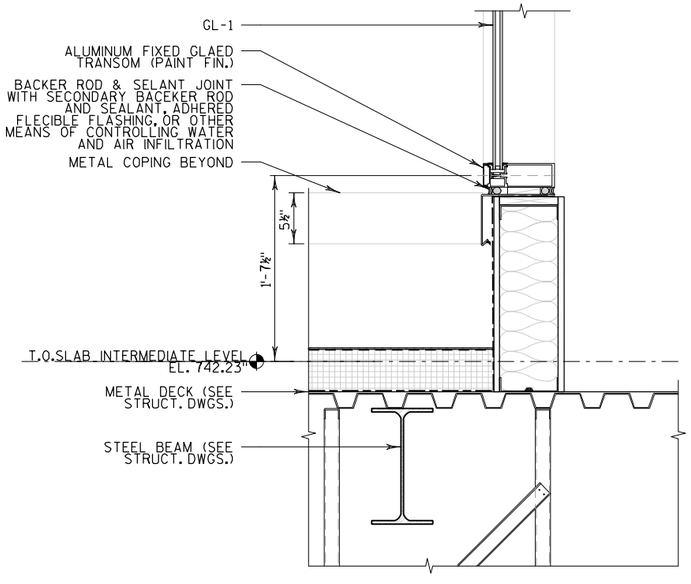
2/A-513 PARTIAL ELEVATION
SCALE: 1 1/2"=1'-0"
0 4 8 16 IN



1/A-513 SECTION DETAIL
SCALE: 1 1/2"=1'-0"
0 4 8 16 IN



4/A-513 WALL SECTION - DETAIL
SCALE: 1 1/2"=1'-0"
0 4 8 16 IN



2/A-513 WALL SECTION - DETAIL
SCALE: 1 1/2"=1'-0"
0 4 8 16 IN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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WALL SECTIONS DETAILS

SHEET A-513
PRE_216

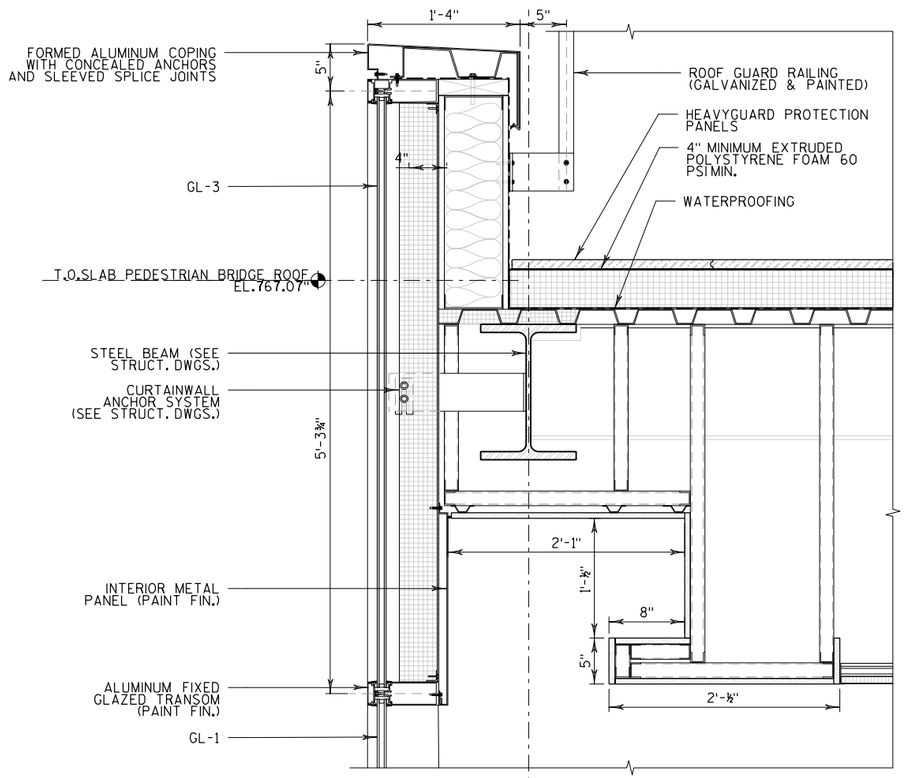
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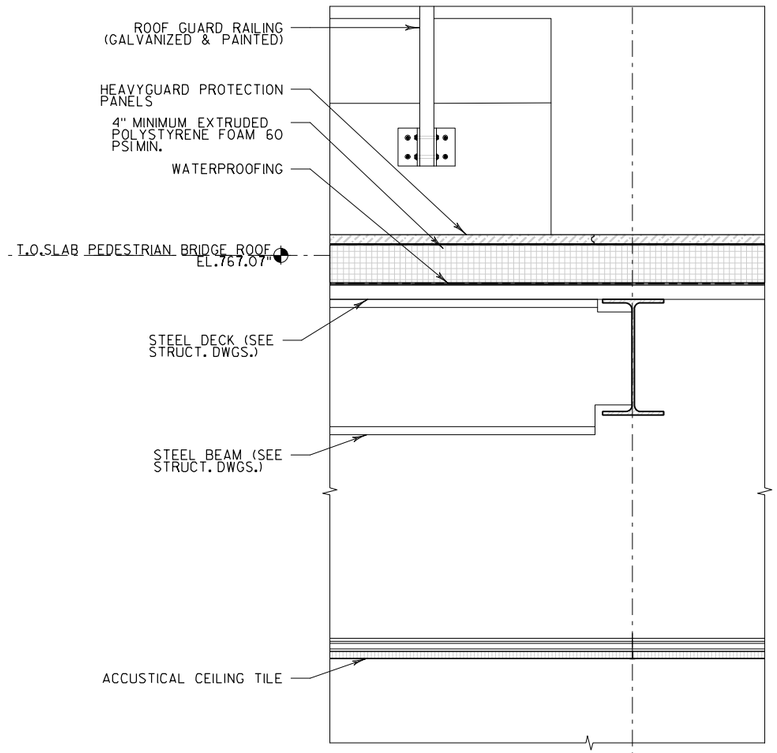
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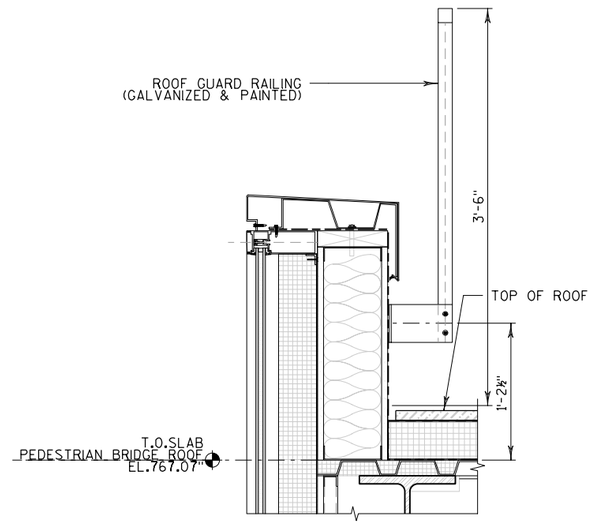
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

1000-57-05



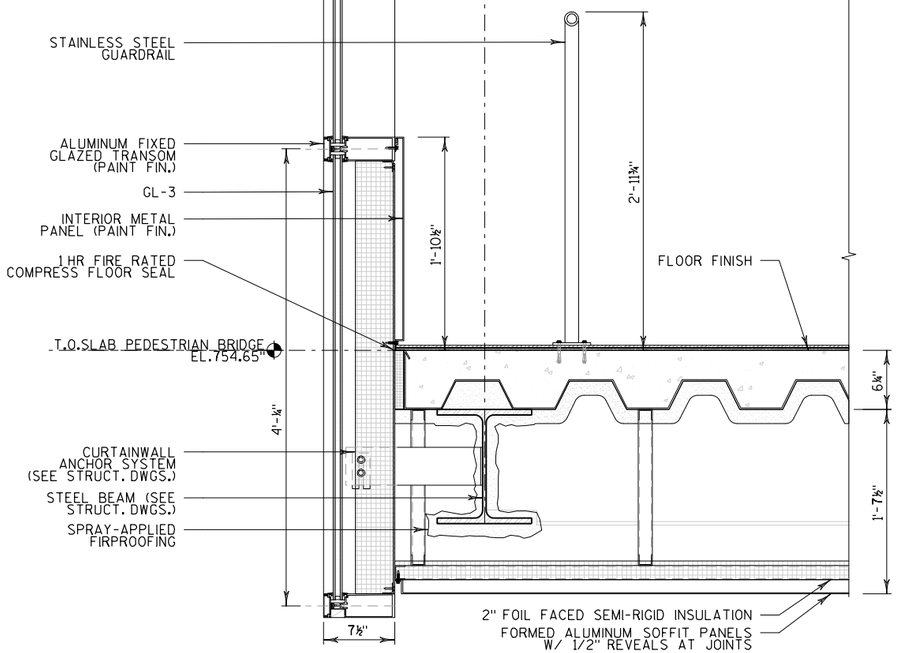




3 / A-514 SECTION DETAIL - BRIDGE

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

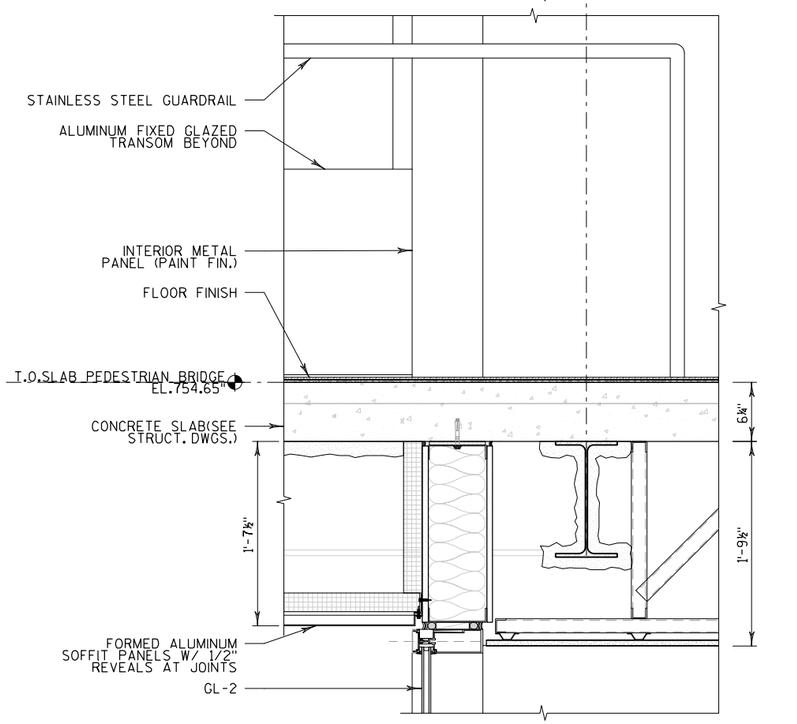
0 4 8 16 IN



2 / A-514 SECTION DETAIL - BRIDGE

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

0 4 8 16 IN



1 / A-514 SECTION DETAIL - BRIDGE

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

0 4 8 16 IN

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

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WALL SECTIONS DETAILS

SHEET A-514

PRE_217

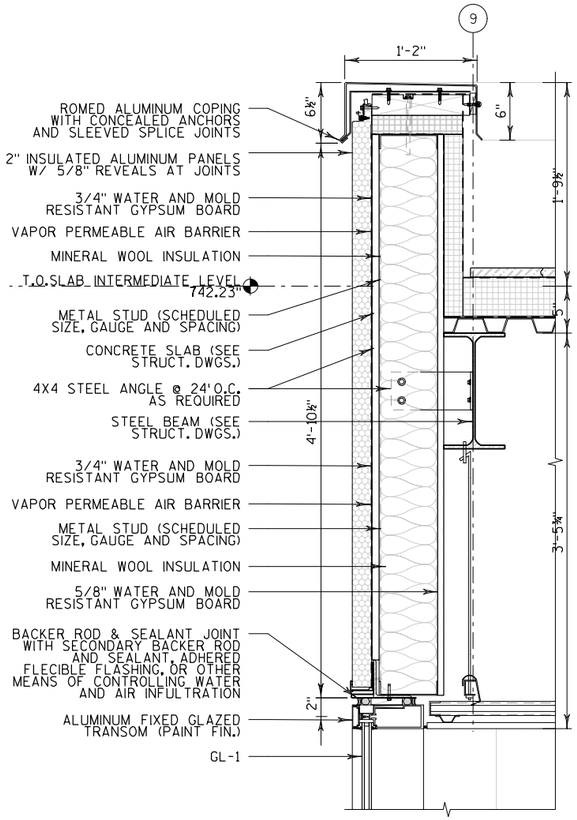
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8

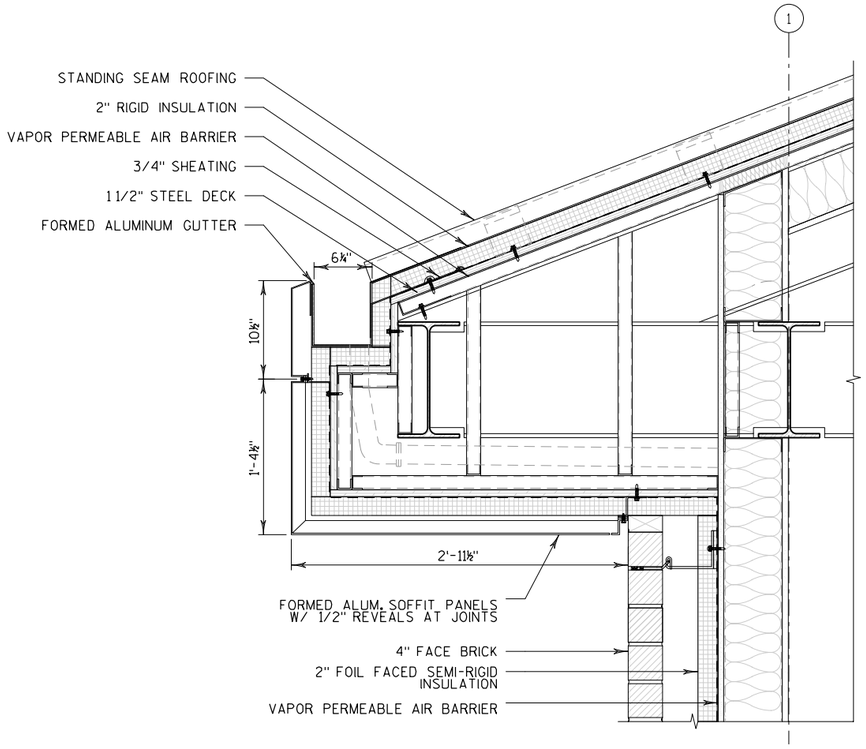
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable..$$
FILE NAME: $$...designfile...$$ PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
1000-57-05

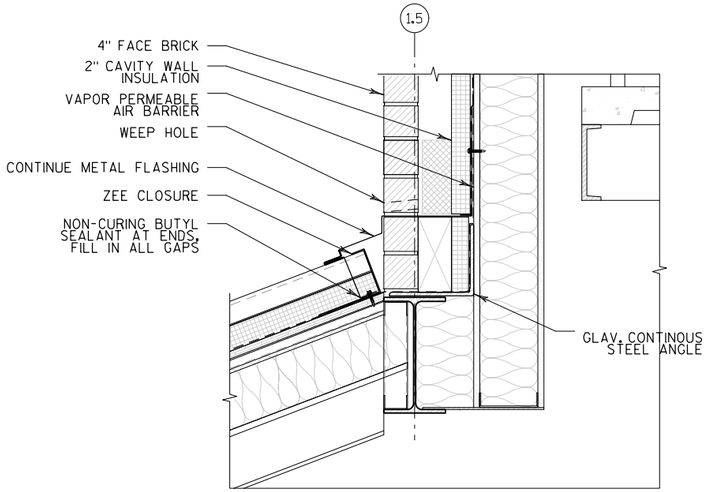
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$



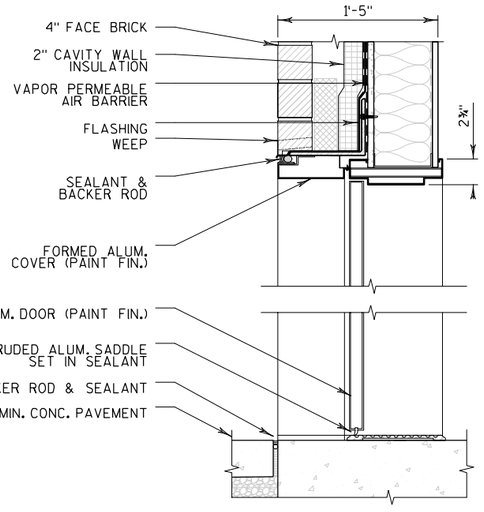
6 A-515 SECTION DETAIL - PARAPET
SCALE: 1 1/2"=1'-0"



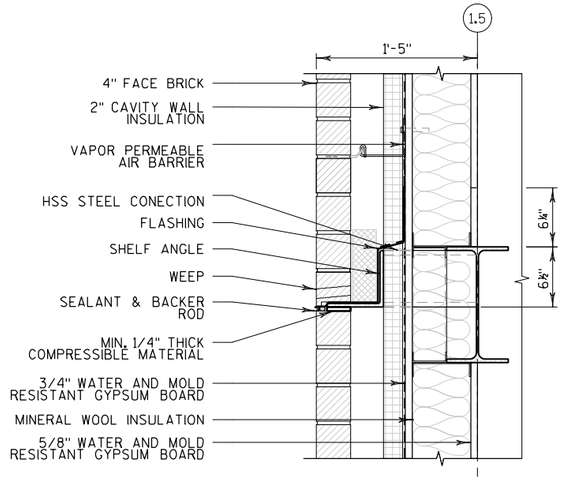
4 A-515 SECTION DETAIL - LOWER ROOF
SCALE: 1 1/2"=1'-0"



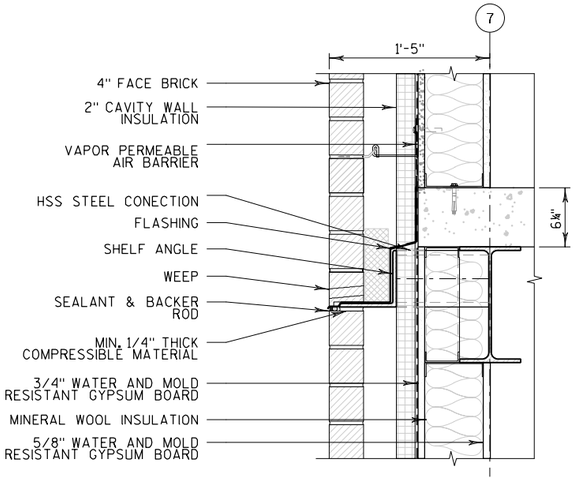
2 A-515 SECTION DETAIL - LOWER ROOF
SCALE: 1 1/2"=1'-0"



1 A-515 SECTION DETAIL - DOOR
SCALE: 1 1/2"=1'-0"



5 A-515 SECTION DETAIL - BRICK JOINT
SCALE: 1 1/2"=1'-0"



3 A-515 SECTION DETAIL - BRICK JOINT
SCALE: 1 1/2"=1'-0"

NO.	DATE	REVISION	BY

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WALL SECTIONS DETAILS

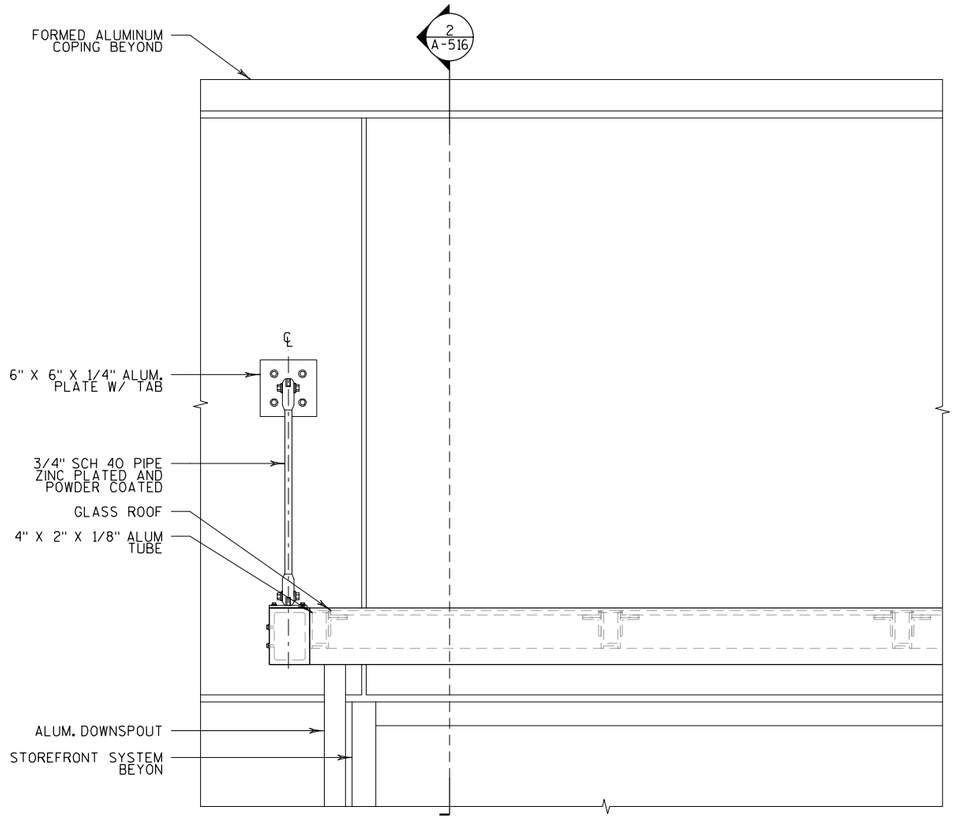
SHEET A-515
PRE_218

8

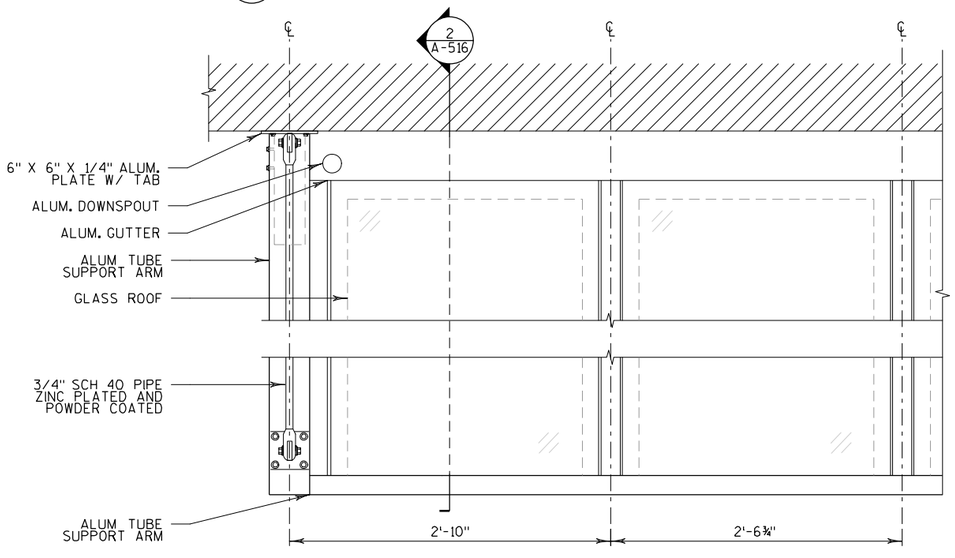
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

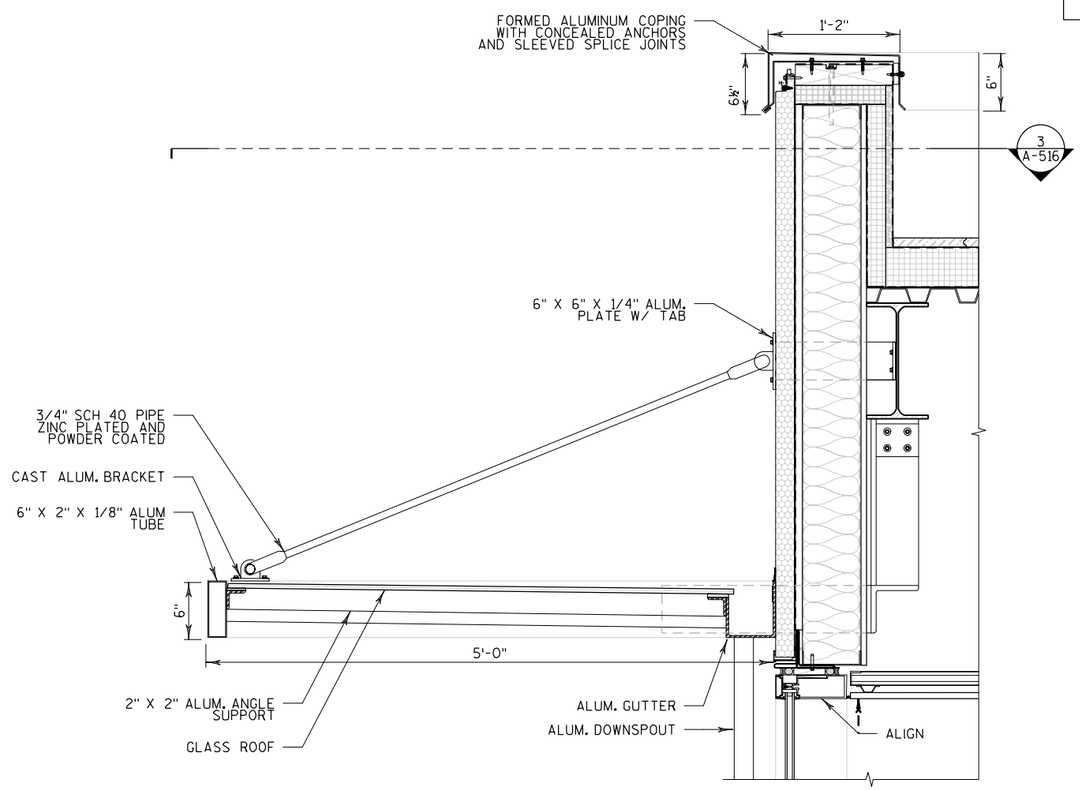
STATE PROJECT NUMBER
1000-57-05



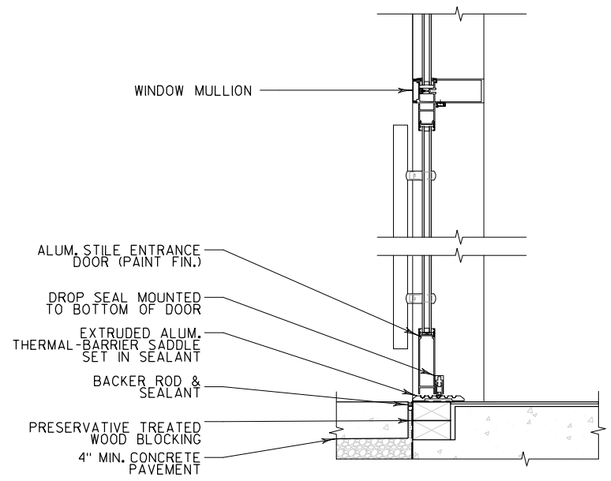
4 A-516 PARTIAL ELEVATION - CANOPY
SCALE: 1 1/2"=1'-0"



3 A-516 PARTIAL PLAN - CANOPY
SCALE: 1 1/2"=1'-0"



2 A-516 WALL SECTION - ENTRY CANOPY
SCALE: 1 1/2"=1'-0"



1 A-516 SECTION DETAIL - ENTRY DOOR
SCALE: 1 1/2"=1'-0"

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL

DRAWN BY	JR	PLANS CK'D.	DK

WALL SECTIONS DETAILS

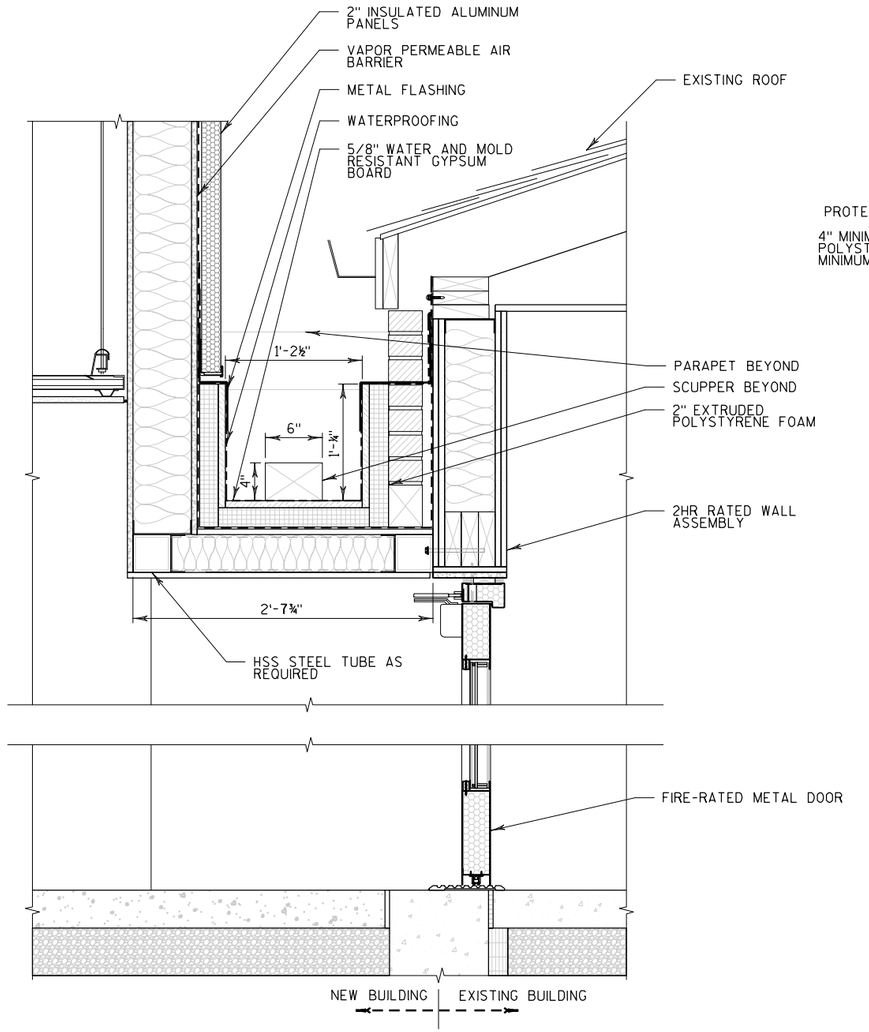
SHEET A-516
PRE_219

8

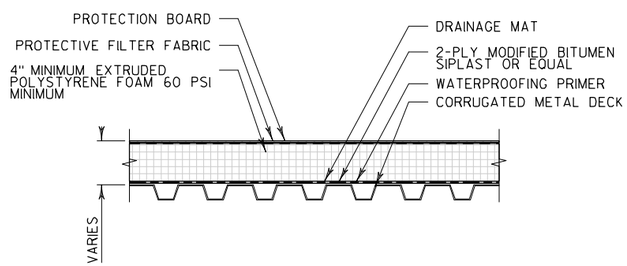
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STATE PROJECT NUMBER
1000-57-05

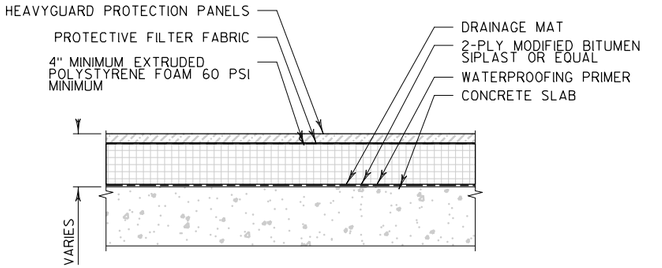
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$..pentable..$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plottingdate...$$
PLOT TIME: $$...plottingtime...$$



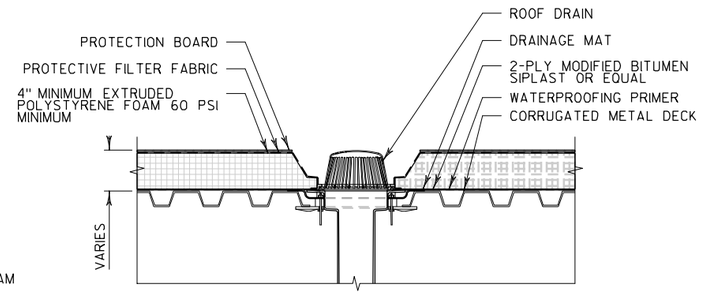
6 A-517 ROOF DETAIL
SCALE: 1 1/2"=1'-0"



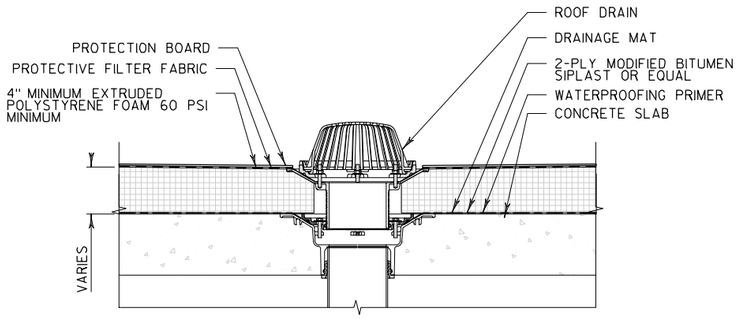
5 A-517 ROOF DETAIL-MTL. DECK
SCALE: 1 1/2"=1'-0" (RF-01)



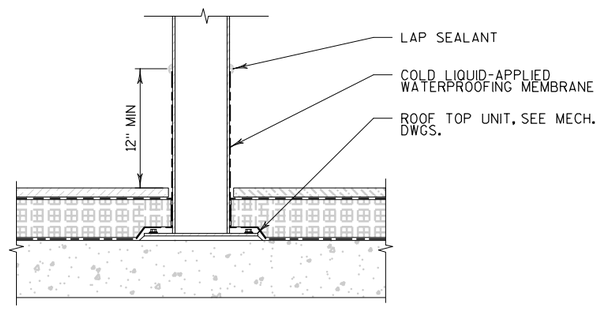
2 A-517 ROOF DETAIL-WALKING SURFACE
SCALE: 1 1/2"=1'-0" (RF-02)



4 A-517 ROOF DRAIN TYPES, TYP.
SCALE: 1 1/2"=1'-0"



1 A-517 ROOF DRAIN TYPES, TYP.
SCALE: 1 1/2"=1'-0"



3 A-517 POST ATTACHEMENT DETAIL, TYP.
SCALE: 1 1/2"=1'-0"

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ROOF DETAILS

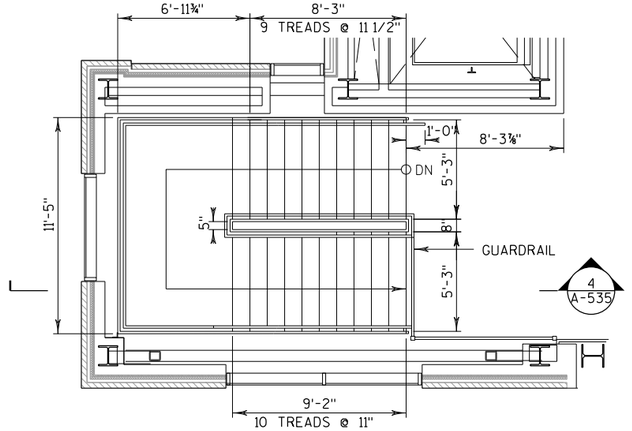
SHEET A-517
PRE_220

8

8

STATE PROJECT NUMBER

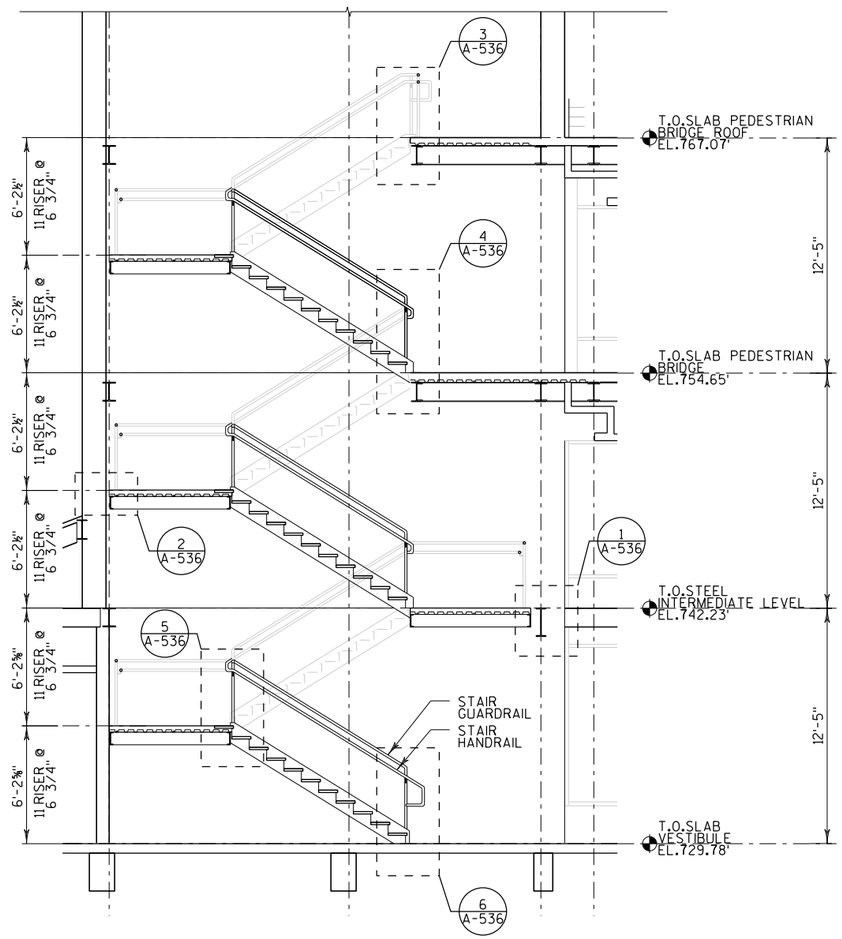
1000-57-05



1 A-535 PARTIAL PLAN - @ BRIDGE ROOF

SCALE: 1/4"=1'-0"

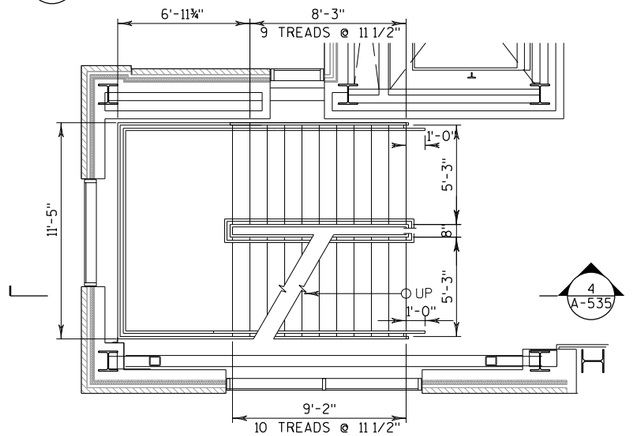
FT 0 2 4 8 N



4 A-535 SECTION THROUGH STAIR

SCALE: 1/4"=1'-0"

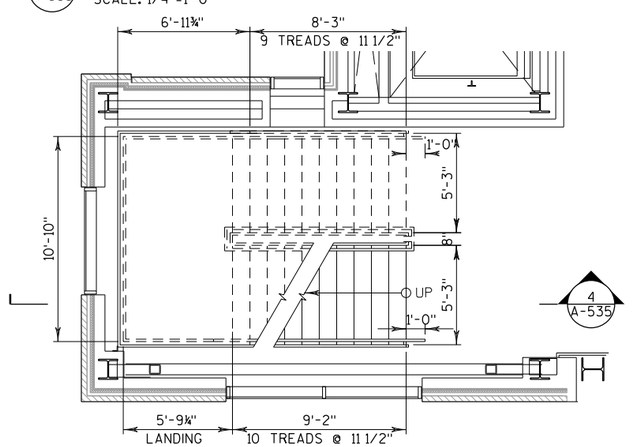
FT 0 2 4 8



2 A-535 PARTIAL PLAN - @ PEDESTRIAN BRIDGE

SCALE: 1/4"=1'-0"

FT 0 2 4 8 N



1 A-535 PARTIAL PLAN - @ GROUND FLOOR

SCALE: 1/4"=1'-0"

FT 0 2 4 8 N

NOTE:

STAIR 2 PLANS AND SECTION SHOWN. STAIR 1 PLANS AND SECTION ARE OPPOSITE HAND.

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ARCHITECTURAL

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STAIR PLANS, AND SECTIONS

SHEET A-535

PRE_221

8

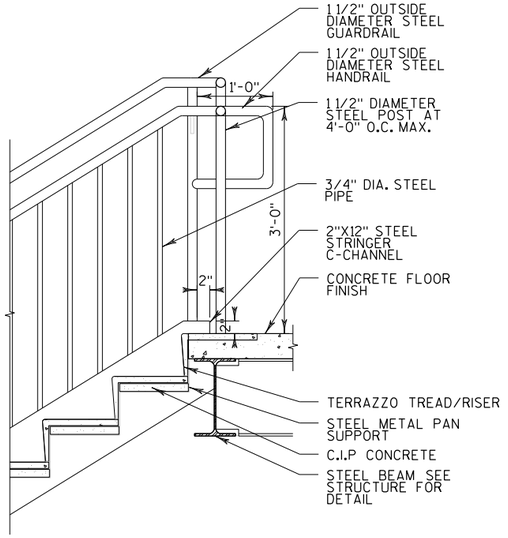
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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

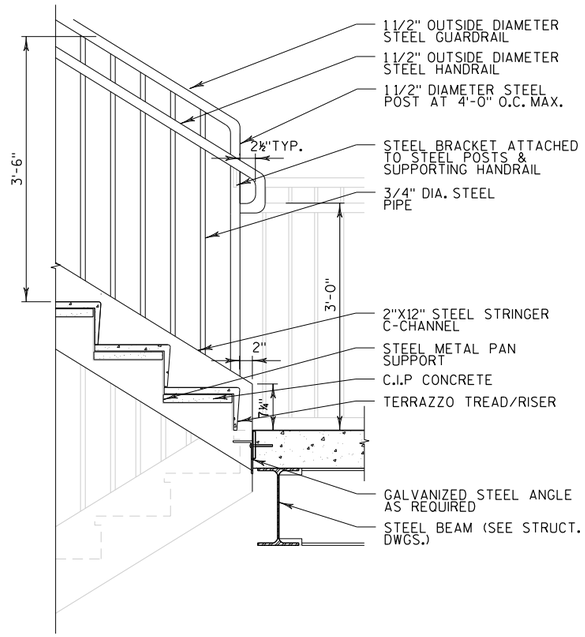
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

STATE PROJECT NUMBER

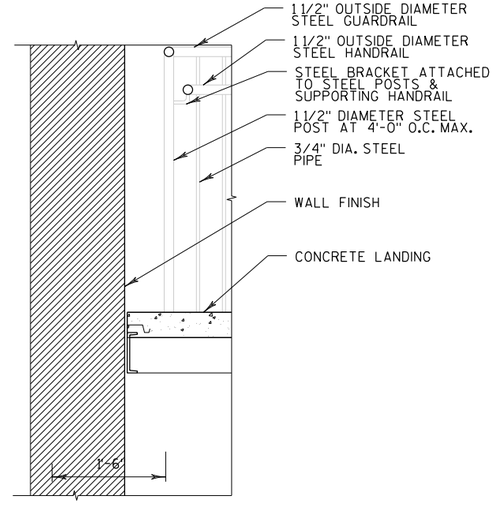
1000-57-05



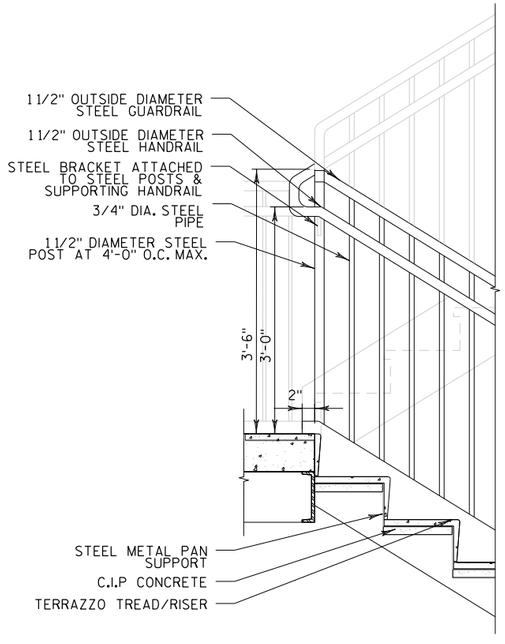
3 A-536 SECTION DETAIL
SCALE: 1"=1'-0"
0 .5 1 2 FT



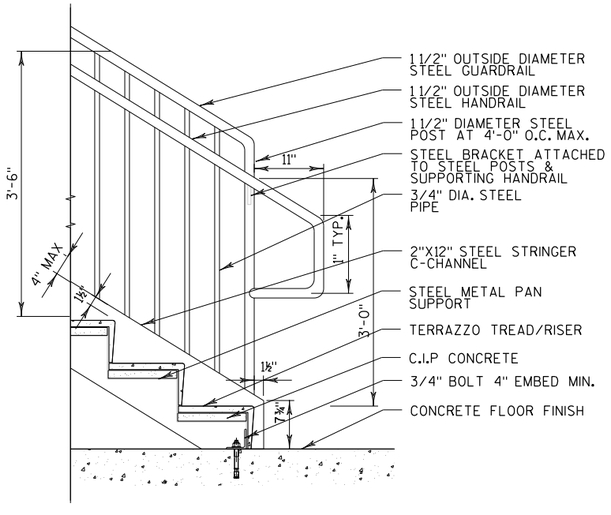
4 A-536 SECTION DETAIL
SCALE: 1"=1'-0"
0 .5 1 2 FT



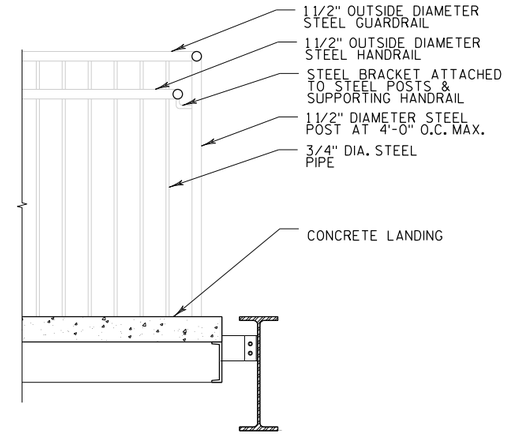
2 A-536 SECTION DETAIL
SCALE: 3"=1'-0"
0 2 4 8 IN



5 A-536 SECTION DETAIL
SCALE: 1"=1'-0"
0 .5 1 2 FT



6 A-536 SECTION DETAIL
SCALE: 1"=1'-0"
0 .5 1 2 FT



1 A-536 SECTION DETAIL
SCALE: 3"=1'-0"
0 2 4 8 IN

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STAIR PLAN, SECTION AND DETAILS

SHEET A-535
PRE_222

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DOOR SCHEDULE

DOOR									FRAME			DETAIL			
NO.	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	HARDWARE SET	FIRE RATING	TYPE	MATERIAL	FINISH	JAMB	HEAD	SILL	REMARKS
100	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	- -		1	1.5 HR	A			1 / A - XXX	1 / A - XXX	1 / A - XXX	
101	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	- -			1.5 HR	A						
102	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	- -			1.5 HR	A						
103	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
104	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
105	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
106	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	- -			1.5 HR	A						
107	A	(2)3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
108	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
109	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
300	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
301	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
302	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				
303	A	3' - 0"	7' - 0"	1 - 3 / 4"	HM	PTD		1.5 HR	A	HM	PTD				

WINDOW SCHEDULE

WINDOW							DETAIL					
NO.	TYPE	WIDTH	HEIGHT	GLAZING	MATERIAL	FIRE RATING	JAMB	HEAD	SILL	HORIZ MULL	VERT MULL	REMARKS
1	A	3' - 0"	7' - 0"			1.5 HR	1 / A - XXX	1 / A - XXX	1 / A - XXX			

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1000-57-05

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DEPARTMENT OF TRANSPORTATION

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DOOR AND WINDOW SCHEDULES

SHEET A-601

PRE_223

8

8

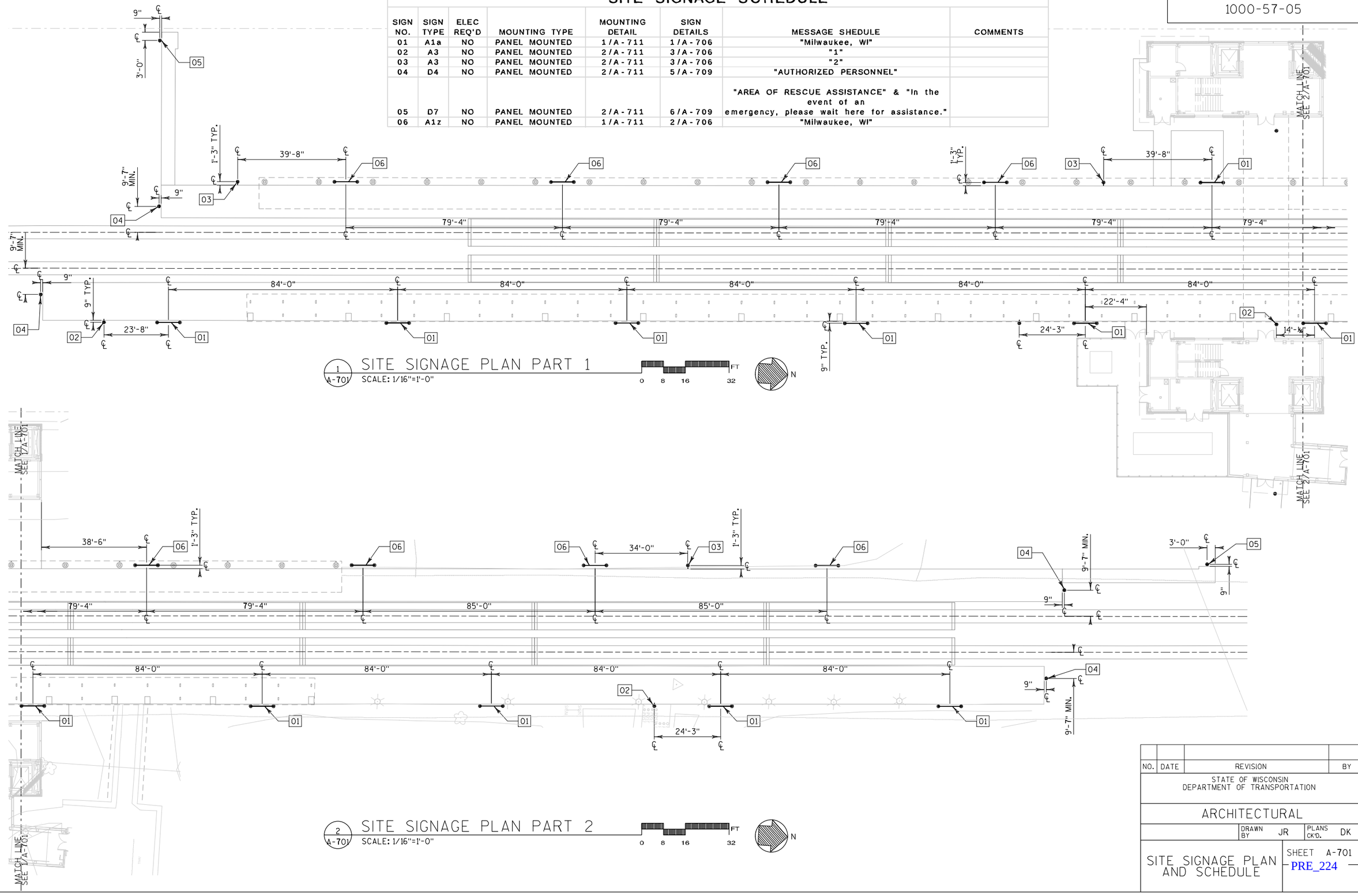
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER

1000-57-05

SITE SIGNAGE SCHEDULE

SIGN NO.	SIGN TYPE	ELEC REQ'D	MOUNTING TYPE	MOUNTING DETAIL	SIGN DETAILS	MESSAGE SHEDULE	COMMENTS
01	A1a	NO	PANEL MOUNTED	1/A-711	1/A-706	"Milwaukee, WI"	
02	A3	NO	PANEL MOUNTED	2/A-711	3/A-706	"1"	
03	A3	NO	PANEL MOUNTED	2/A-711	3/A-706	"2"	
04	D4	NO	PANEL MOUNTED	2/A-711	5/A-709	"AUTHORIZED PERSONNEL"	
05	D7	NO	PANEL MOUNTED	2/A-711	6/A-709	"AREA OF RESCUE ASSISTANCE" & "In the event of an emergency, please wait here for assistance."	
06	A1z	NO	PANEL MOUNTED	1/A-711	2/A-706	"Milwaukee, WI"	



1/A-701 SITE SIGNAGE PLAN PART 1

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

0 8 16 32 FT

N

2/A-701 SITE SIGNAGE PLAN PART 2

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

0 8 16 32 FT

N

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SITE SIGNAGE PLAN AND SCHEDULE

SHEET A-701

PRE_224

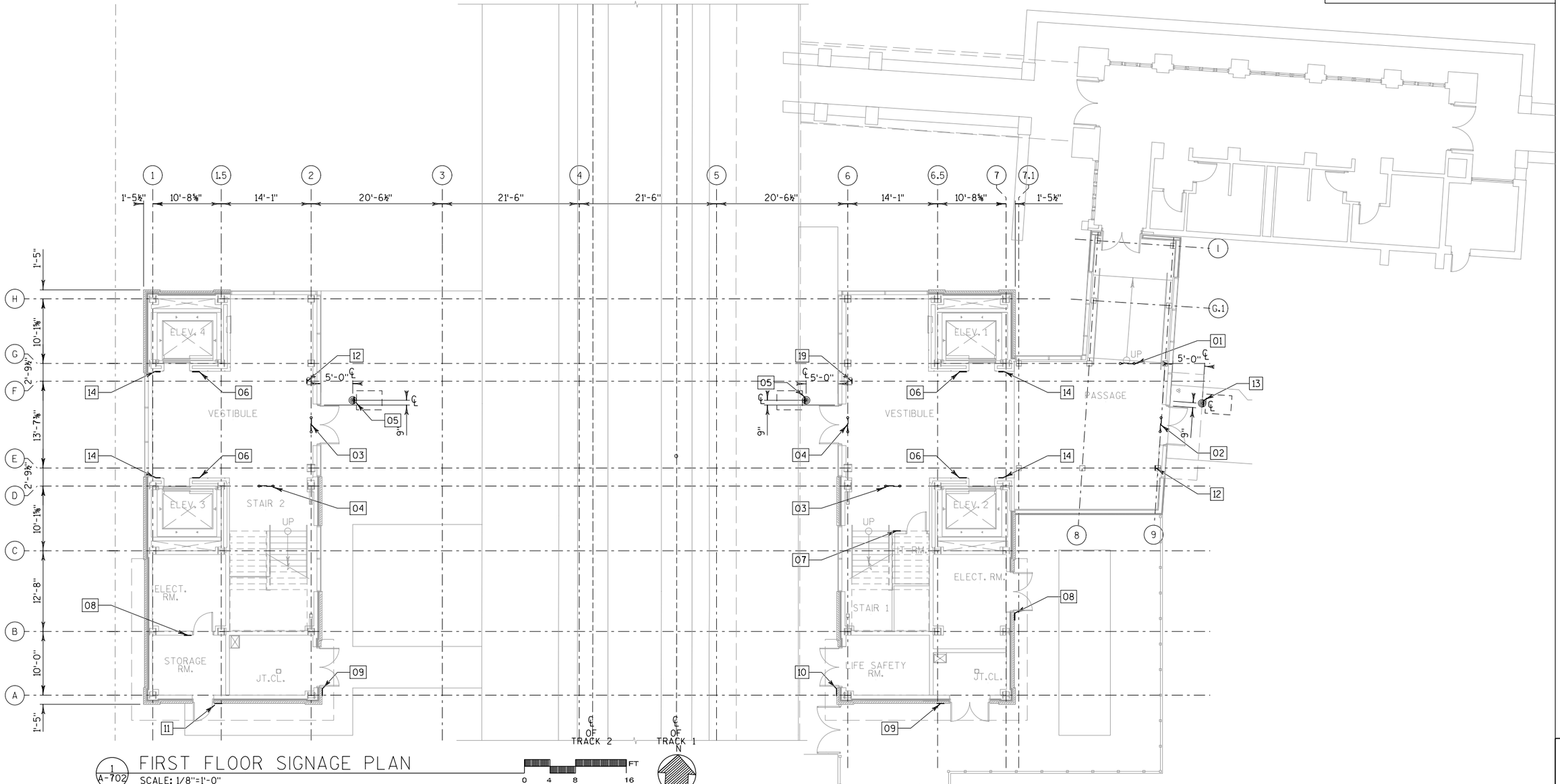
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8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
1000-57-05



1 A-702 FIRST FLOOR SIGNAGE PLAN
SCALE: 1/8"=1'-0"

FIRST FLOOR SIGNAGE SCHEDULE

SIGN NO.	SIGN TYPE	ELEC REQ'D	MOUNTING TYPE	MOUNTING DETAIL	SIGN DETAILS	MESSAGE SHEDULE	COMMENTS
01	A10	NO	USPENDED MOUNTED	4/A-711	4/A-706	SIDE A: UP ARROW, "Restrooms"; SIDE B: RIGHT ARROW "Trains"	
02	A10	NO	USPENDED MOUNTED	4/A-711	5/A-706	UP ARROW, "Parking"	
03	A10	NO	USPENDED MOUNTED	4/A-711	6/A-706	UP ARROW, "Track 2"	
04	A10	NO	USPENDED MOUNTED	4/A-711	1/A-707	UP ARROW, "Track 1"	
05	A12	NO	PANEL MOUNTED	2/A-711	4/A-707	"MILWAUKEE, WI"	
06	B21	NO	PANEL MOUNTED	6/A-711	1/A-708	"ELEVATOR"	
07	B21	NO	PANEL MOUNTED	6/A-711	2/A-708	"IT ROOM"	
08	B21	NO	WALL MOUNTED	6/A-711	3/A-708	"ELECTRICAL ROOM"	
09	B21	NO	WALL MOUNTED	5/A-711	4/A-708	"JANITOR'S CLOSET"	
10	B21	NO	WALL MOUNTED	5/A-711	5/A-708	"LIFE SAFETY ROOM"	
11	B21	NO	WALL MOUNTED	6/A-711	6/A-708	"STORAGE"	
12	B19	NO	WALL MOUNTED	5/A-711	5/A-707	"EXIT"	
13	C20	NO	PANEL MOUNTED	2/A-711	3/A-709	"MILWAUKEE AIRPORT RAILROAD STATION"	
14	D2	NO	WALL MOUNTED	6/A-711	4/A-709	"In the Event of Fire Use Stairs	

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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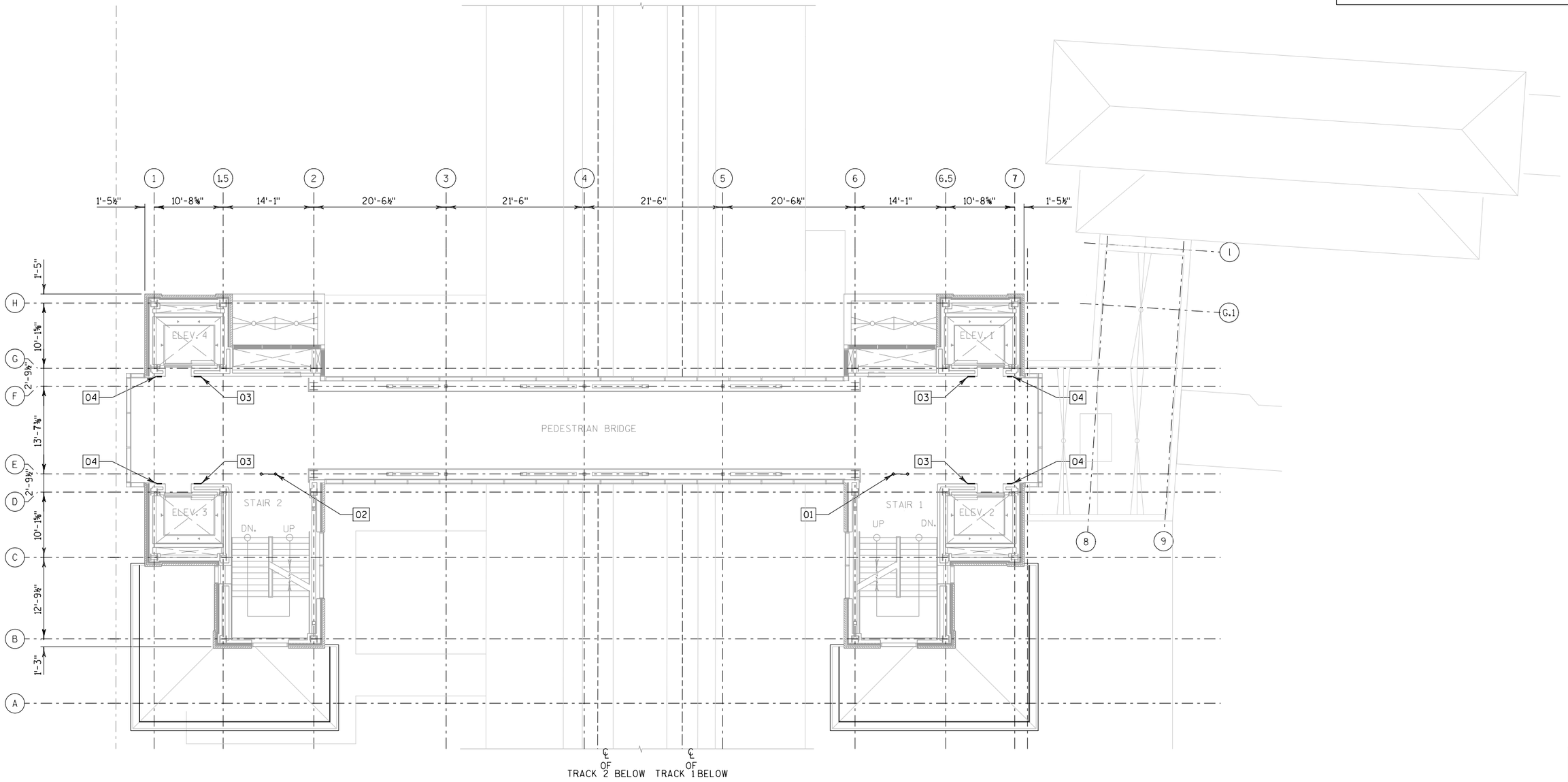
DRAWN BY JR | PLANS CK'D. DK

FIRST FLOOR SIGNAGE PLAN & SCHEDULE

SHEET A-702
PRE_225

STATE PROJECT NUMBER

1000-57-05



1 / A-703 SECOND FLOOR SIGNAGE PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

SECOND FLOOR SIGNAGE SCHEDULE

SIGN NO.	SIGN TYPE	ELEC REQ'D	MOUNTING TYPE	MOUNTING DETAIL	SIGN DETAILS	MESSAGE SHEDULE	COMMENTS
01	A10	NO	USPENDED MOUNTED	4/A-711	2/A-707	SIDE A: LEFT ARROW, "Track 2"; SIDE B: DOWN ARROW "Track 1"	
02	A10	NO	USPENDED MOUNTED	4/A-711	3/A-707	SIDE A: RIGHT ARROW, "Track 1"; SIDE B: DOWN ARROW "Track 2"	
03	B21	NO	WALL MOUNTED	6/A-711	1/A-708	"ELEVATOR"	
04	D2	NO	WALL MOUNTED	6/A-711	4/A-709	"In the Event of Fire Use Stairs	

NO.	DATE	REVISION	BY

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SECOND FLOOR SIGNAGE PLAN & SCHEDULE

SHEET A-703

PRE_226

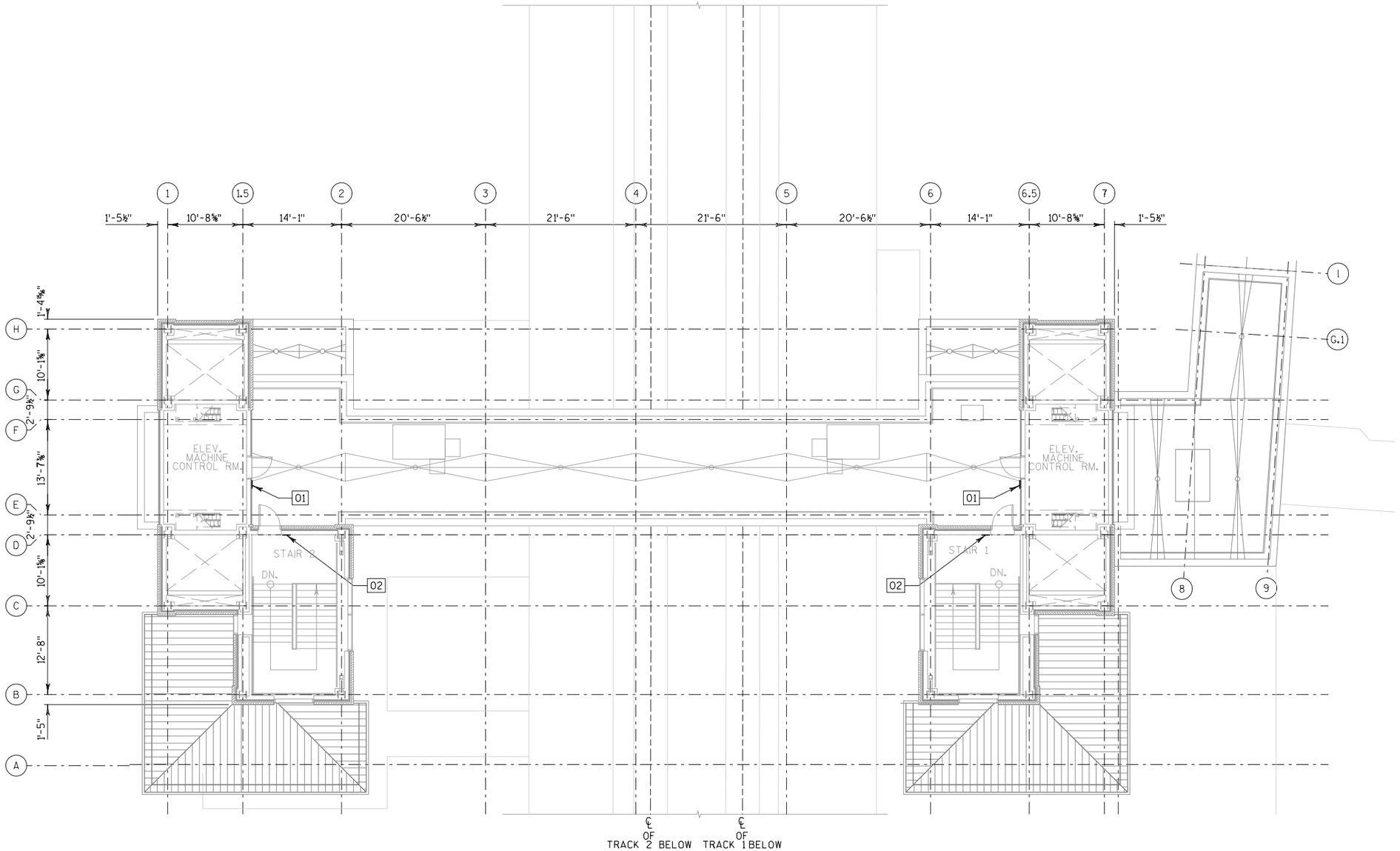
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$

8

8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
1000-57-05



1 / A-704 PEDESTRIAN BRIDGE CONSTRUCTION ROOF PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

PEDESTRIAN BRIDGE ROOF SIGNAGE SCHEDULE

SIGN NO.	SIGN TYPE	ELEC REQ'D	MOUNTING TYPE	MOUNTING DETAIL	SIGN DETAILS	MESSAGE SHEDULE	COMMENTS
01	B21	NO	WALL MOUNTED	5/A-711	1/A-709	"ELEVATOR MACHINE CONTROL ROOM"	
02	B21	NO	WALL MOUNTED	6/A-711	2/A-709	"AUTHORIZED PERSONNEL ONLY"	

NO.	DATE	REVISION	BY

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DRAWN BY JR | PLANS CK'D. DK

BRIDGE ROOF LEVEL SIGNAGE PLAN & SCHEDULE

SHEET A-704
PRE_227

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plotingdate...$$ PLOT TIME: $$...plotingtime...$$

STANDARD SIGNAGE TEXT STYLES

FRUTIGER 55 ROMAN STYLE

ABCDEFGHIJKLMN

OPQRSTUVWXYZ

abcdefghijklmnop

qrstuvwxyz

1234567890

FRUTIGER 65 BOLD STYLE

ABCDEFGHIJKLMN

OPQRSTUVWXYZ

abcdefghijklmnop

qrstuvwxyz

1234567890

NOTE:
THE ALPHABETS SHOWN HERE ARE FOR REFERENCE ONLY, IT SHOULD NOT BE USED FOR ARTWORK.

SIGNAGE SYSTEM COLORS

AMT BLUE
MATTHEWS PAINT
SATIN VOC* SV0C1142SP

AVERY ULTIMATE CAST
OPAQUE FILM
MAJESTIC BLUE
UC 900-625-0

ARLON CALON SERIES
2500 TRANSLUCENT
VINYL FILM
2051 BLUE

BLACK
MATTHEWS PAINT
SATIN VOC* SV923SP

3M SCOTCHCAL
ELECTROCUT FILM
BLACK 7725-12
(OPAQUE FILM)

3M SCOTCHLITE
REFLECTIVE VINYL
BLACK 680-85

CLEAR COAT
MATTHEWS PAINT
VOC* SATIN CLEAR
281228

SILVER
MATTHEWS PAINT
LVS SATIN PAINT MP 18073

3M SCOTCHCAL
CONTROLTAC FILM
LIGHT SILVER METALLIC
180C-220 (OPAQUE FILM)

SCARLET RED
MATTHEWS PAINT
SATIN VOC* SV0C1340SP

3M SCOTCHCAL
ELECTROCUT FILM
GERANIUM 7725-63
(OPAQUE FILM)

3M SCOTCHLITE
REFLECTIVE VINYL
RUBY RED 680-82

WHITE
MATTHEWS PAINT
SATIN VOC* SV202SP

3M SCOTCHCAL
ELECTROCUT FILM
WHITE 7725-10
(OPAQUE FILM)

3M SCOTCHLITE
REFLECTIVE VINYL
WHITE 680-10

NOTE:
PAINT MANUFACTURERS AND MODEL NUMBERS ARE LISTED AS BASELINE PRODUCT. SEE SPECIFICATIONS FOR ALTERNATE MANUFACTURERS.

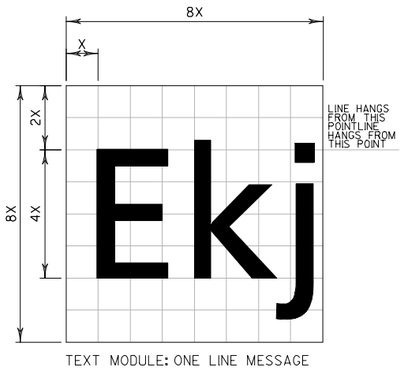
SIGNAGE GENERAL NOTES:

1. PRIOR TO FABRICATION OF ANY SIGNAGE THAT INCORPORATES THE TRAVEL MARK, DESIGN AND SHOP DRAWINGS MUST BE SUBMITTED TO SIGNAGE BRAND MANAGEMENT (SIGNAGEBRANDMANAGEMENT@AMTRAK.COM OR THROUGH THE AMTRAK PROJECT MANAGER WHO DISTRIBUTES REVIEW DOCUMENTS) FOR FINAL AMTRAK PROJECT MANAGER WHO DISTRIBUTES REVIEW DOCUMENTS) FOR FINAL APPROVAL. "NON-BRANDED" SIGNAGE WILL ALSO BE REVIEWED BY AMTRAK. TEXT THAT APPEARS ON SIGNAGE (STATION NAME, TRACK NUMBER AND LOCATION, ETC.) IS TO BE CONFIRMED WITH AMTRAK. BRAND MANAGEMENT'S REVIEW WILL BE LIMITED TO CHECKING THAT THE SUBMISSION COMPLIES WITH ARTWORK USAGE AND LAYOUT REQUIREMENTS. ARTWORK FOR BRANDED SIGNAGE, INCLUDING FOR POSITION ONLY ARTWORK, IS AVAILABLE FOR USE BY CONTACTING SIGNAGEBRANDMANAGEMENT@AMTRAK.COM BRAND MANAGEMENT WILL ISSUE THE FINAL ARTWORK FILES AND THE LICENSE TO USE THE TRAVEL MARK UPON APPROVAL OF SHOP DRAWINGS.
2. ALL EXISTING CONDITIONS INCLUDING DIMENSIONS SHALL BE VERIFIED IN FIELD PRIOR TO PROCEEDING WITH WORK. ANY DIMENSIONS OR CONDITIONS NOT CONSISTENT WITH THE CONTRACT DOCUMENTS SHALL BE REPORTED IN WRITING TO THE PROJECT ENGINEER.
3. CONTRACT DOCUMENTS SHALL NOT BE SCALED. IF DIMENSIONS ARE MISSING, COORDINATE THROUGH SHOP DRAWINGS.
4. PROVIDE MATERIAL AND COLOR SAMPLES FOR APPROVAL. THE SIGNS SHALL COMPLY WITH THE GRAPHIC STANDARDS PROVIDED HEREIN.
5. PREPARE DETAILED AND DIMENSIONED DRAWINGS FOR THE SIGN GRAPHICS FOR APPROVAL BY THE PROJECT ENGINEER.
6. PATCH AND REPAIR ALL FLOORS, WALLS, CEILINGS, ETC. DAMAGED OR EXPOSED DUE TO WORK OR REMOVALS AND FINISHED TO MATCH ADJOINING SURFACES. SPOT PAINTING WILL NOT BE PERMITTED. ALL PAINTING SHALL BE EDGE TO EDGE OVER THE ENTIRE SURFACE.
7. INFORM THE PROJECT ENGINEER OF ANY CONFLICT BETWEEN NEW SIGNS AND EXISTING UTILITIES THAT ARE WITHIN 24" OF EACH OTHER. CONTRACTOR SHALL RELOCATE SIGN OR UTILITY AS DIRECTED BY THE PROJECT ENGINEER.
8. PROVIDE PROTECTION OR TEMPORARILY REMOVE AND RELOCATE EXISTING SIGNS INDICATED TO REMAIN AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION WORK.

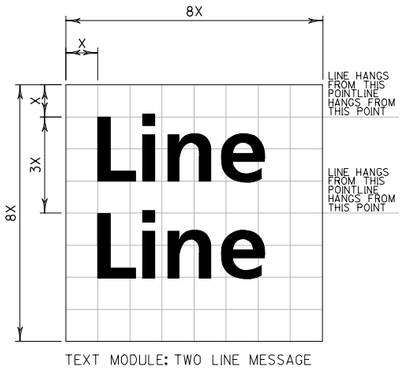
STATE PROJECT NUMBER

1000-57-05

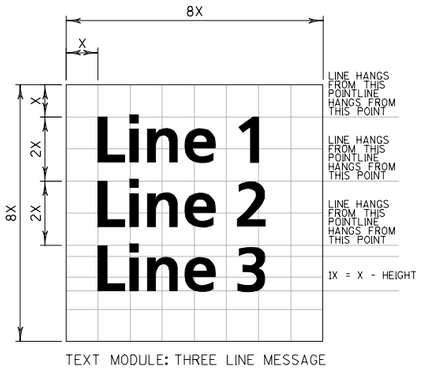
STANDARD SIGNAGE TEXT MODULES



TEXT MODULE: ONE LINE MESSAGE

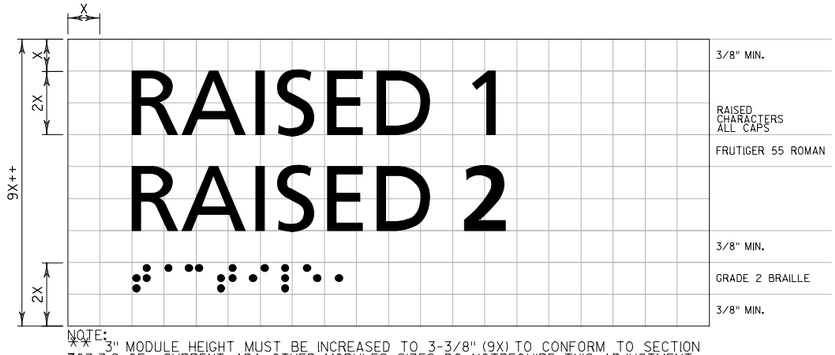


TEXT MODULE: TWO LINE MESSAGE



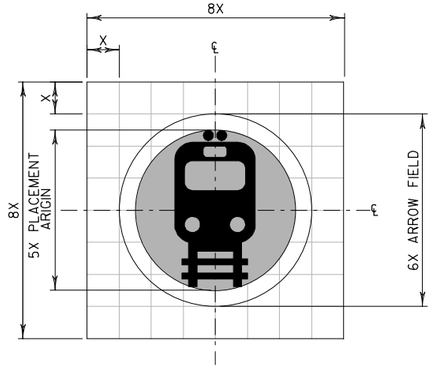
TEXT MODULE: THREE LINE MESSAGE

RAISED CHARACTERS AND GRADE 2 BRAILLE



NOTE:
** 3" MODULE HEIGHT MUST BE INCREASED TO 3-3/8" (9X) TO CONFORM TO SECTION 703.3.2 OF CURRENT ADA. OTHER MODULES SIZES DO NOTREQUIRE THIS ADJUSTMENT

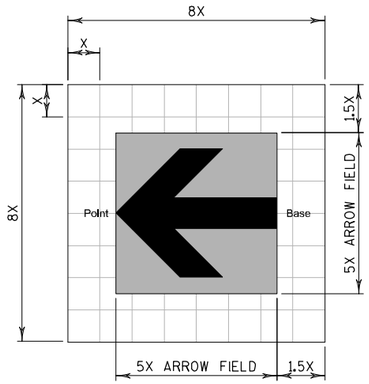
STANDARD SIGNAGE SYMBOLS

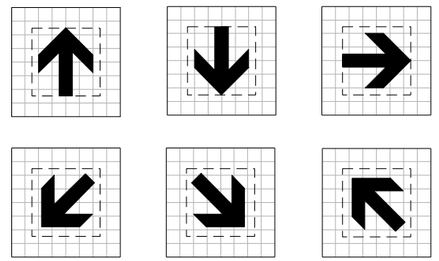


NOTE:
* PUBLIC SERVICE SYMBOLS DISPLAYED WITHOUT ACCOMPANYING TEXT



STANDARD ARROW SYMBOLS





NOTE:
THE VARIOUS POSITIONS FOR POSSIBLE USE OF THE ARROW ARE SHOWN

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SIGNAGE GRAPHIC STANDARDS

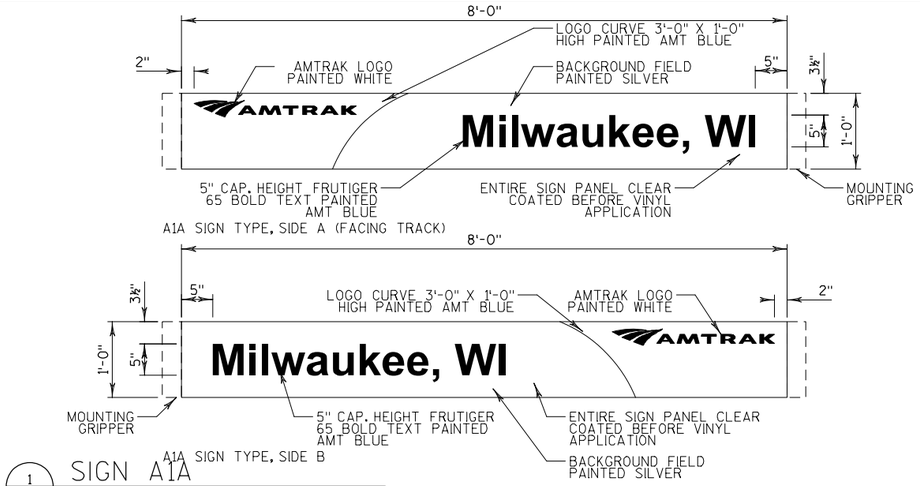
SHEET A-705
PRE_228

8

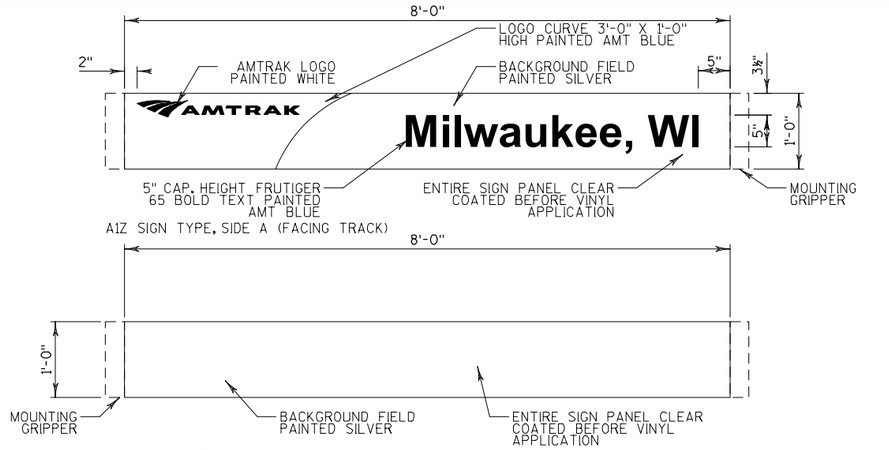
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

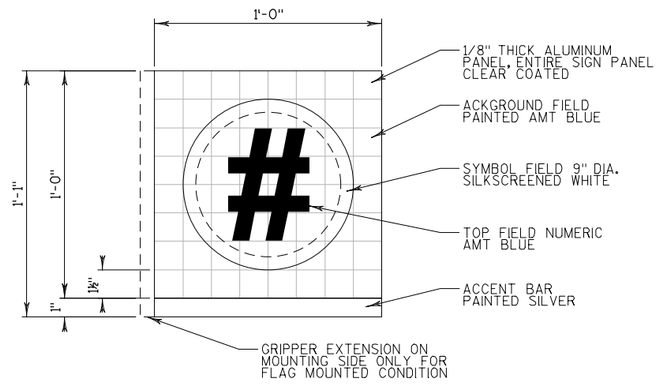
STATE PROJECT NUMBER
1000-57-05



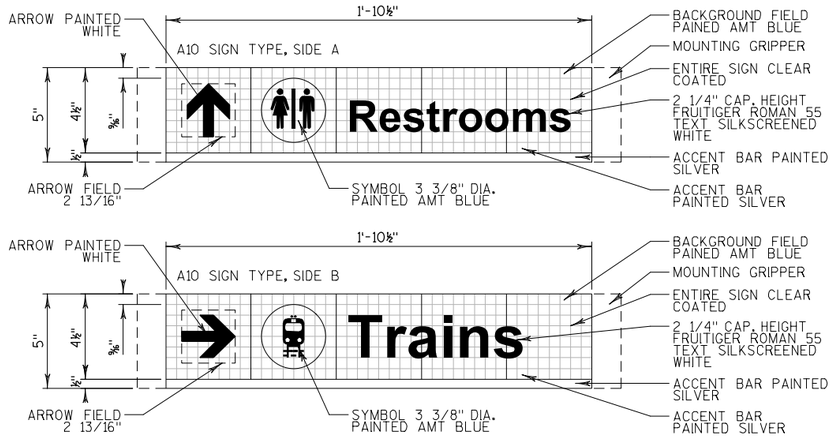
1 A-706 SIGN A1A
SCALE: 1"=1'-0"



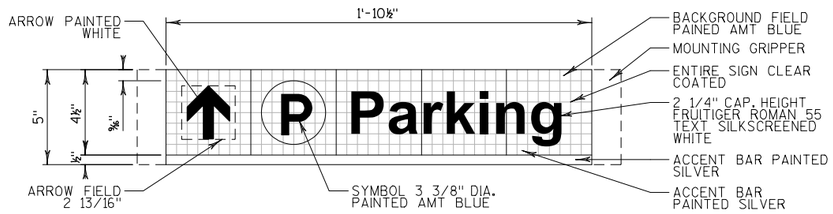
2 A-706 SIGN A1Z
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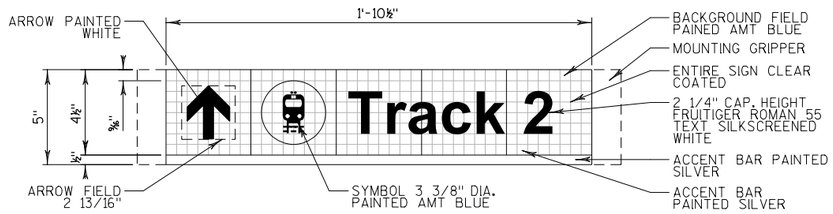
3 A-706 SIGN A3
SCALE: 3"=1'-0"



4 A-706 SIGN A10
SCALE: 3"=1'-0"



5 A-706 SIGN A10
SCALE: 3"=1'-0"



6 A-706 SIGN A10
SCALE: 3"=1'-0"

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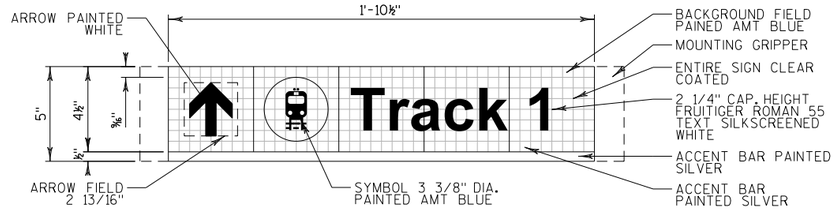
SIGNAGE DETAILS 1

SHEET A-706
PRE_229

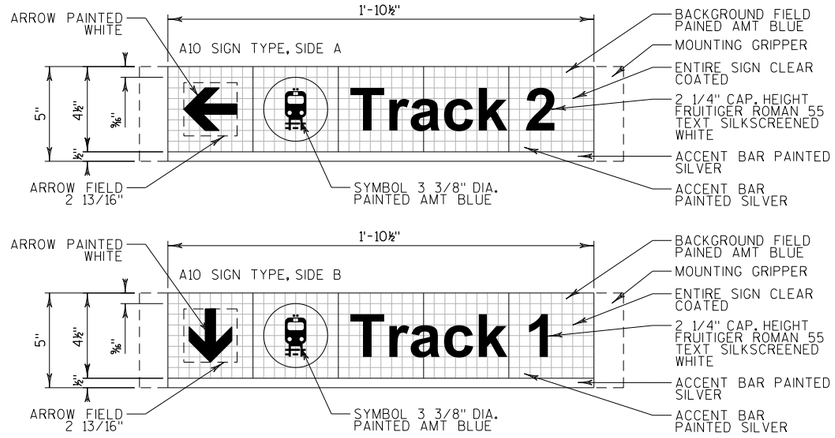
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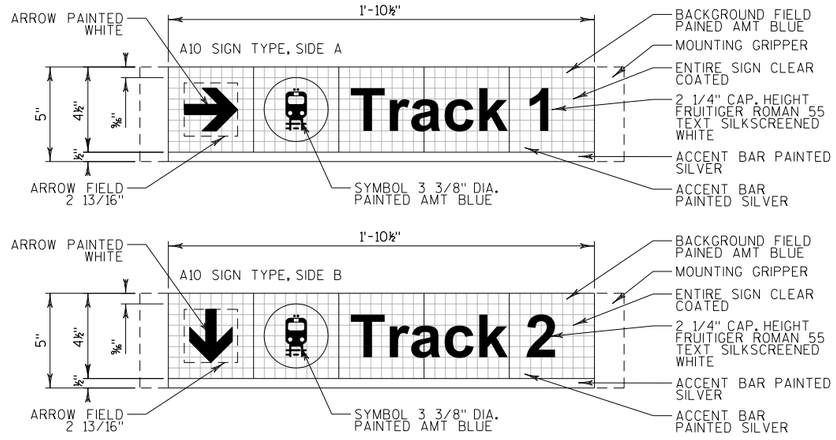
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$



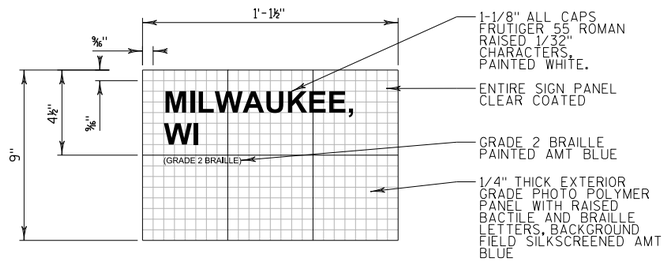
1 A-707 SIGN A10
SCALE: 1"=1'-0"



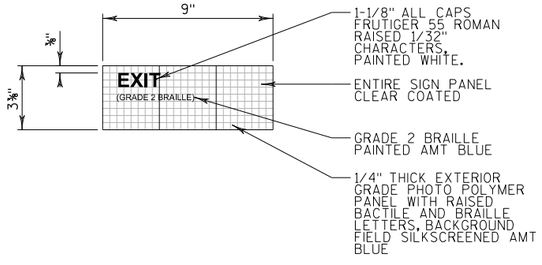
2 A-707 SIGN A10
SCALE: 1"=1'-0"



3 A-707 SIGN A10
SCALE: 3"=1'-0"



4 A-707 SIGN A12
SCALE: 3"=1'-0"



5 A-707 SIGN B19
SCALE: 3"=1'-0"

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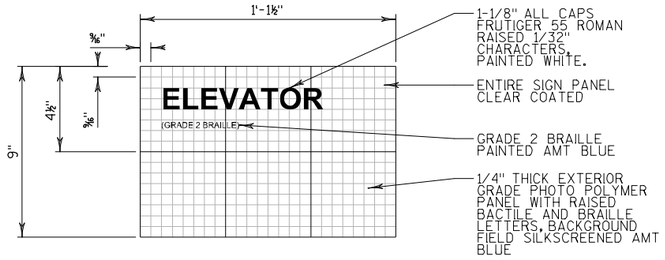
SIGNAGE DETAILS 2

SHEET A-707
PRE_230

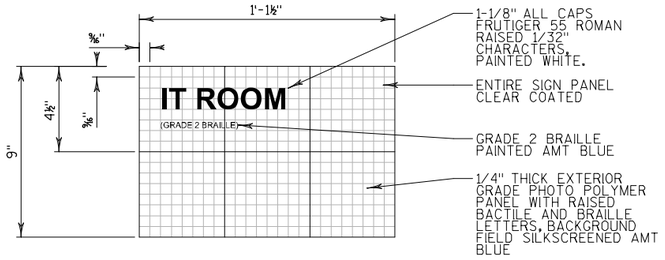
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PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$ BATCH PRINT SHEET CSD OF NSD

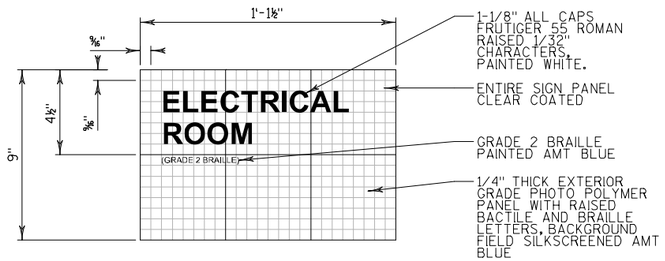
STATE PROJECT NUMBER
1000-57-05



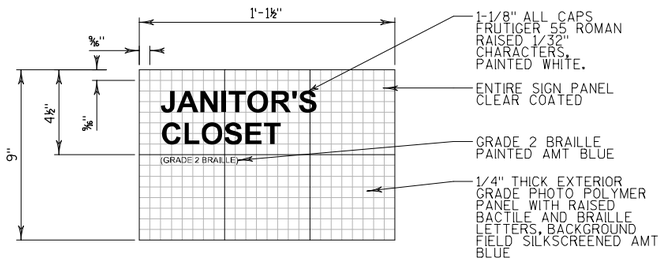
1 A-708 SIGN B21
SCALE: 1"=1'-0"



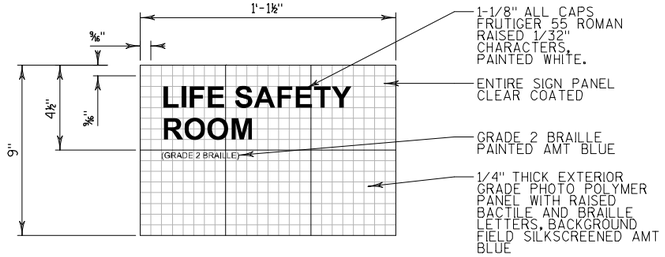
2 A-708 SIGN B21
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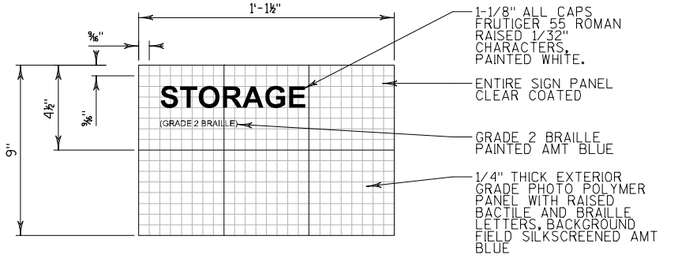
3 A-708 SIGN B21
SCALE: 3"=1'-0"



4 A-708 SIGN B21
SCALE: 3"=1'-0"



5 A-708 SIGN B21
SCALE: 3"=1'-0"



6 A-708 SIGN B21
SCALE: 3"=1'-0"

8

8

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ARCHITECTURAL

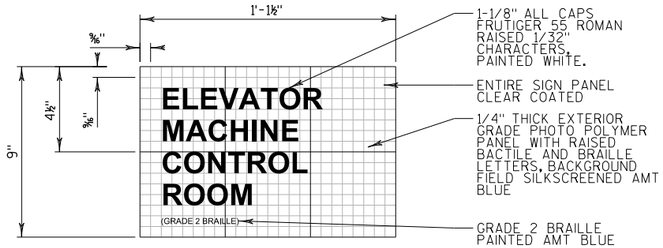
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SIGNAGE DETAILS 3

SHEET A-708
PRE_231

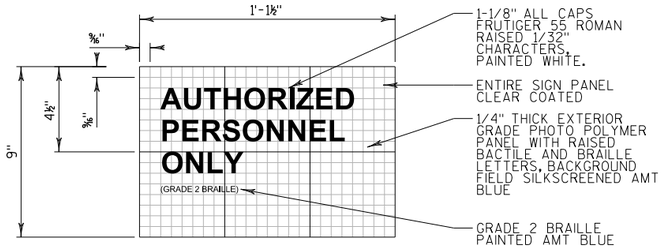
STATE PROJECT NUMBER

1000-57-05



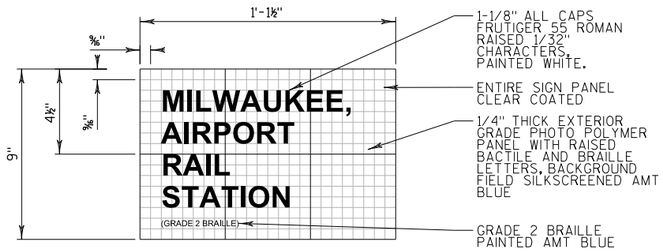
1 A-709 SIGN B21

SCALE: 1"=1'-0"



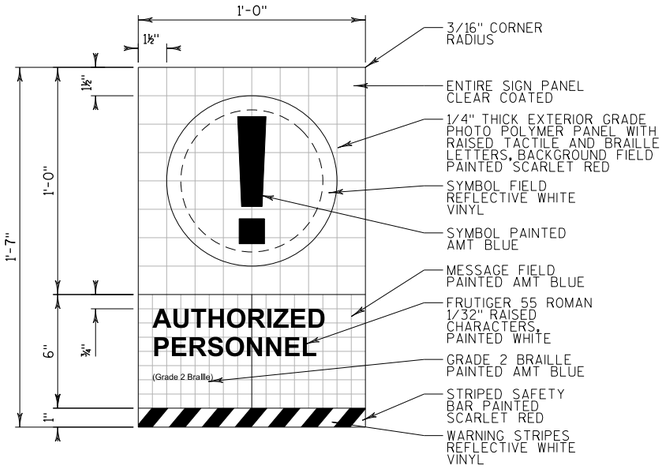
2 A-709 SIGN B21

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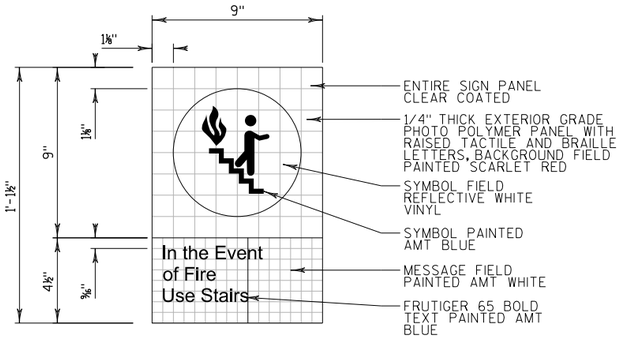
3 A-709 SIGN C20

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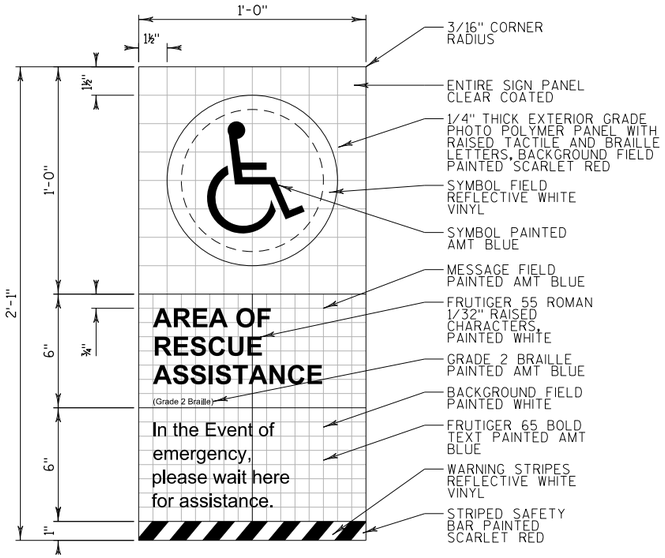
5 A-709 SIGN D4

SCALE: 3"=1'-0"



4 A-709 SIGN D2

SCALE: 3"=1'-0"



6 A-709 SIGN D7

SCALE: 3"=1'-0"

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DEPARTMENT OF TRANSPORTATION

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SIGNAGE DETAILS 4

SHEET A-709

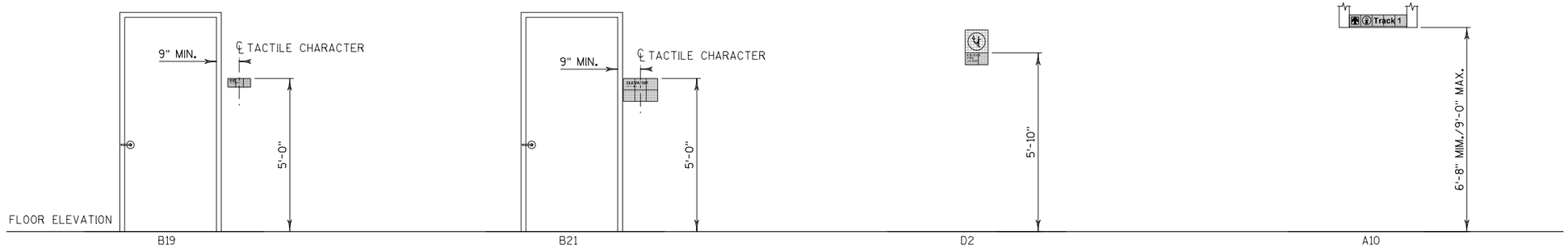
PRE_232

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BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER
1000-57-05

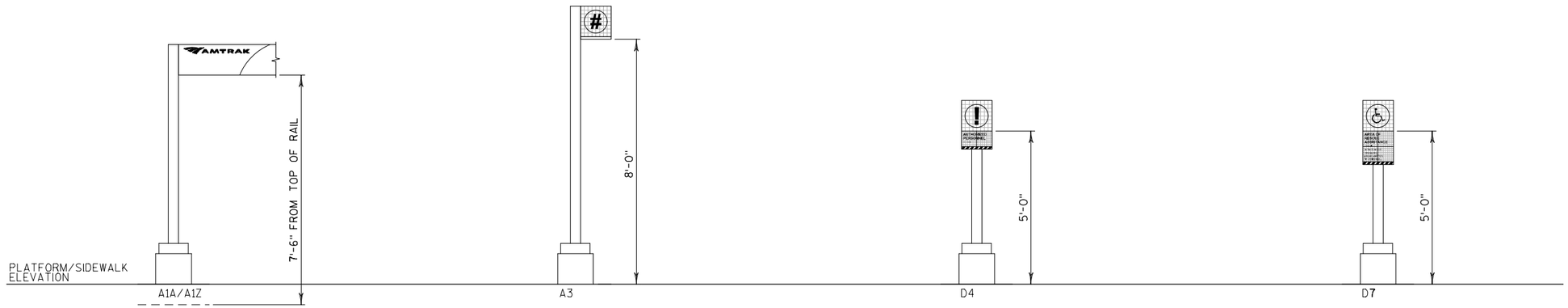


1 A-710 WALL MOUNTED
SCALE: 1/2"=1'-0"

1 A-710 WALL MOUNTED
SCALE: 1/2"=1'-0"

1 A-710 WALL MOUNTED
SCALE: 1/2"=1'-0"

1 A-710 SUSPENDED
SCALE: 1/2"=1'-0"

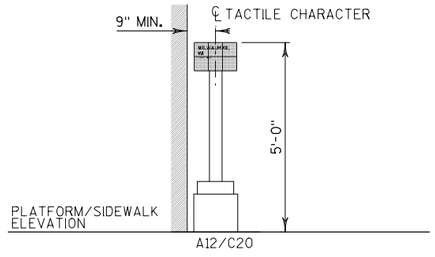


3 A-710 POST MOUNTED
SCALE: 1/2"=1'-0"

3 A-710 POST MOUNTED
SCALE: 1/2"=1'-0"

3 A-710 POST MOUNTED
SCALE: 1/2"=1'-0"

3 A-710 POST MOUNTED
SCALE: 1/2"=1'-0"



3 A-710 POST MOUNTED
SCALE: 1/2"=1'-0"

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STANDARD SIGNAGE MOUNTING HEIGHTS

SHEET A-710
PRE_233

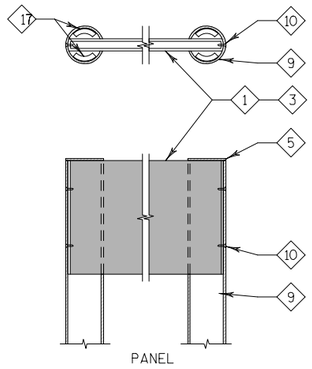
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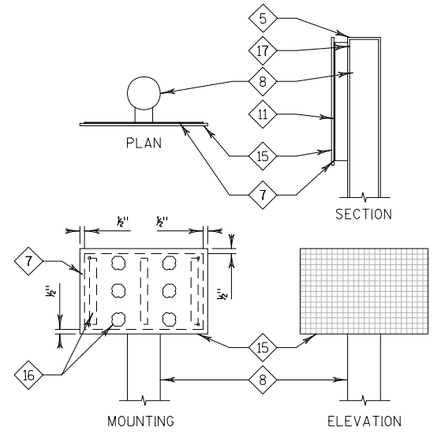
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BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

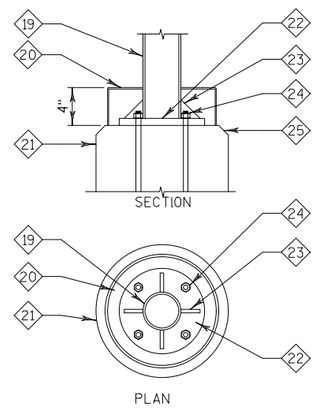
1000-57-05



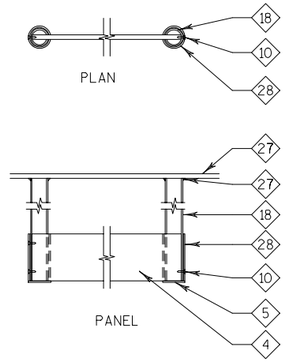
1 A-711 PANEL MOUNTING ELEVATION
SCALE: 1 1/2"=1'-0"



2 A-711 PANEL MOUNTING DETAIL
SCALE: 1 1/2"=1'-0"



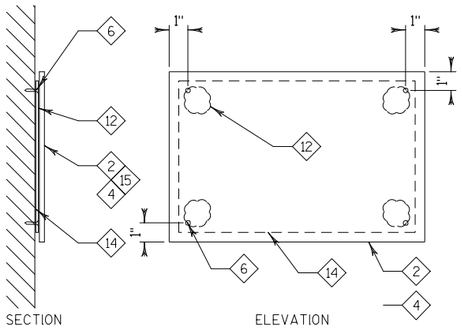
3 A-711 BASE COVER DETAIL
SCALE: 1 1/2"=1'-0"



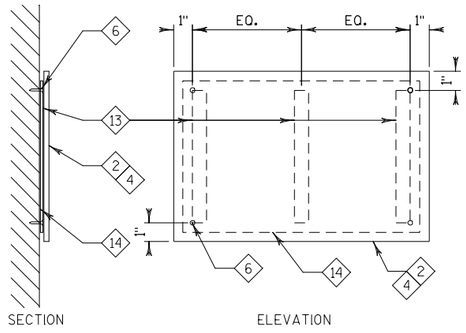
4 A-711 SUSPENDED MOUNTING DET.
SCALE: 1 1/2"=1'-0"

GENERAL NOTES:

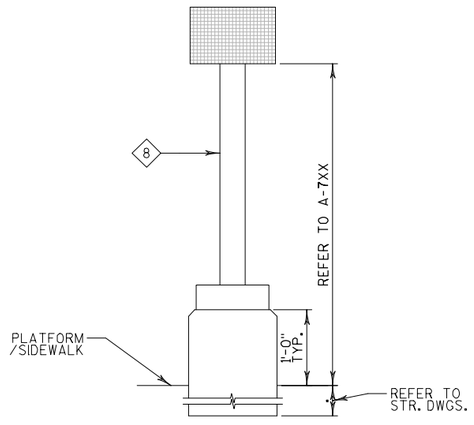
1. SEE SITE PLAN FOR SIGN LOCATIONS. VERIFY ALL LOCATIONS IN FIELD. LOCATIONS ARE A GENERAL REPRESENTATION AND SHALL REQUIRE CONSULTATION W/ PROJECT ARCHITECT/ENGINEER IF UNCLEAR OF REQUIREMENTS.
2. MOUNTING LOCATIONS, TYPES, AND CONNECTIONS MAY VARY. VERIFY IN FIELD ANY OBSTACLES AND SITE CONDITIONS.
3. PROTECT ALL EXISTING SIGNS NOT BEING REMOVED, INCLUDING KIOSKS.
4. FASTENERS SHALL BE CORROSION RESISTANT, SUCH AS GRADE 304 STAINLESS STEEL.
5. SUBMIT SHOP DRAWINGS FOR ALL SIGN ASSEMBLIES TO PROJECT ARCHITECT/ENGINEER FOR APPROVAL.
6. CONTRACTOR TO VERIFY FROST DEPTH BEFORE CONSTRUCTION.
7. ALUMINUM SHALL BE ISOLATED FROM CONTACT WITH CONCRETE, USE BITUMINOUS PAINT OR EQUAL.
8. ALL PAINTED SURFACES OF SIGNAGE ARE TO BE CLEAR COATED WITH: MATTHEWS VOC.
9. SATIN CLEAR COAT (#281228).
10. ALL ALUMINUM WELDING SHALL BE PERFORMED BY A CERTIFIED ALUMINUM WELDER IN ACCORDANCE WITH AWS D1.2
    DESIGN CRITERIA:
    - WIND SPEED = 140 MPH
    - IMPORTANCE FACTOR=1.0
    - KZT = 1.0
    - EXPOSURE = C
    - KD = 0.85
11. PRIOR TO FABRICATION OF ANY SIGNAGE, DESIGN AND SHOP DRAWINGS MUST BE SUBMITTED TO SIGNAGE BRAND MANAGEMENT (SIGNAGEBRANDMANAGEMENT@AMTRAK.COM) FOR FINAL APPROVAL. BRAND MANAGEMENT WILL ISSUE THE FINAL ARTWORK FILE AND THE LICENCE TO USE THE TRAVEL MARK UPON APPROVAL OF SHOP DRAWINGS.



5 A-711 EXTERIOR MOUNTING DETAIL
SCALE: 3"=1'-0"



6 A-711 INTERIOR MOUNTING DETAIL
SCALE: 3"=1'-0"



7 A-711 POST MOUNTING ELEVATION
SCALE: 1"=1'-0"

KEY NOTES:

1. 1" DEEP ALUMINUM PANEL BOX SIGN; SEE SIGNAGE SCHEDULE FOR SIGNAGE DETAIL REFERENCE.
2. 1/4" THICK EXTERIOR GRADE PHOTO POLYMER PANEL SIGN.
3. FACE OF SIGN ORIENTED PARALLEL TO RAIL, LEGNTH OF TRAIN, TYP.
4. 1/8" THICK ALUMINUM SIGN; SEE SIGNAGE SCHEDULE FOR SIGNAGE DETAIL REFERENCE.
5. 1/8" ALLUMINUM CAP FASTENED TO POST WITH VANDAL RESISTANT STAINLESS STEEL SCREWS; PAINTED SILVER. (MATTHEWS PAINT MP18073)
6. MECHANICAL FASTENERS AS REQUIRED BY MANUFACTURER.
7. 1/8" THICK ALUMINUM BACKPLATE; BACK AND EDGES PAINTED AMTRAK BLUE (MATTHEWS PAINT SVOG 1142SP) MOUNT SIGNAGE PLAQUE WITH 1/2" INSET ON ALL FOUR SIDES.
8. 3" (3.5" O.D.) SCH 40 6063-T6 ALUMINUM PIPE WELDED TO BASE PLATE WITH ALUMINUM CAP. POST TO BE PAINTED SILVER. (MATTHEWS PAINT MP18073)
9. 3 1/2" (4" O.D.) SCH 40 6063-T6 ALUMINUM PIPE WELDED TO BASE PLATE. POST TO BE PAINTED SILVER. (MATTHEWS PAINT MP18073)
10. VANDAL RESISTANT STAINLESS STEEL SCREWS.
11. 2" X 1-1/2" X 1/8" ALUMINUM BRACKET; BRACKET CONTINUOUSLY WELDED TO POST AND BACKPLATE. BRACKET PAINTED SILVER. (MATTHEWS PAINT MP18073)
12. EXTERIOR GRADE EPOXY.
13. DOUBLE-SIDED INDUSTRIAL STRENGTH TAPE.
14. 1/8" THICK ALUMINUM BACKER.
15. 1/8" THICK ETCHED ZINC SIGN; SEE SIGNAGE SCHEDULE FOR SIGNAGE DETAIL REFERENCE.
16. SECURE SIGN PANEL WITH VHB TAPE AND EXTERIOR GRADE EPOXY (TYP.)
17. (2) 5/8" X 5/8" X 1/8" ALUM. ANGLE RING SECTION FOR CAP CONNECTION, LEG IN, OUTSIDE ARC LENGTH TO BE 1/4 OF PIPE INTERIOR CIRCUMFERENCE. TACK WELD, MIN. 3 LOCATIONS.
18. 1 1/2" (1.9" O.D.) SCH 40 6063-T6 ALUMINUM PIPE WITH ALUMINUM CAP. POST TO BE PAINTED SILVER. (MATTHEWS PAINT MP18073)
19. ALUM POST
20. ONE PIECE SPUN ALUM BASE COVER, PAINTED SILVER.
21. CONC FOOTING BELOW, TOP CASTING TO BE LEVEL & SMOOTH; REFER TO STRUCTURAL FOR ALL REINFORCING
22. 9" DIA. 3/4" THICK, ALUM. BASE PLATE.
23. (4) TRIANGULAR ALUMINUM STIFFENER PLATES, EACH 2" X 2" X 3/8" THICK. WELD TO POST, USE 3/16" FILLET WELDS.
24. (4) LEVELING NUT & WASHER TYP. REFER TO STRUCT.
25. 1" CHAMFER TYP.
26. 1/4" WELD CONNECTION OF POST TO STEEL BEAM
27. STEEL BEAM
28. 2" (2.375" O.D.) SCH 40 6063-T6 ALUMINUM PIPE WITH ALUMINUM CAP. POST TO BE PAINTED SILVER. (MATTHEWS PAINT MP18073)

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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SIGNAGE MOUNTING DETAILS

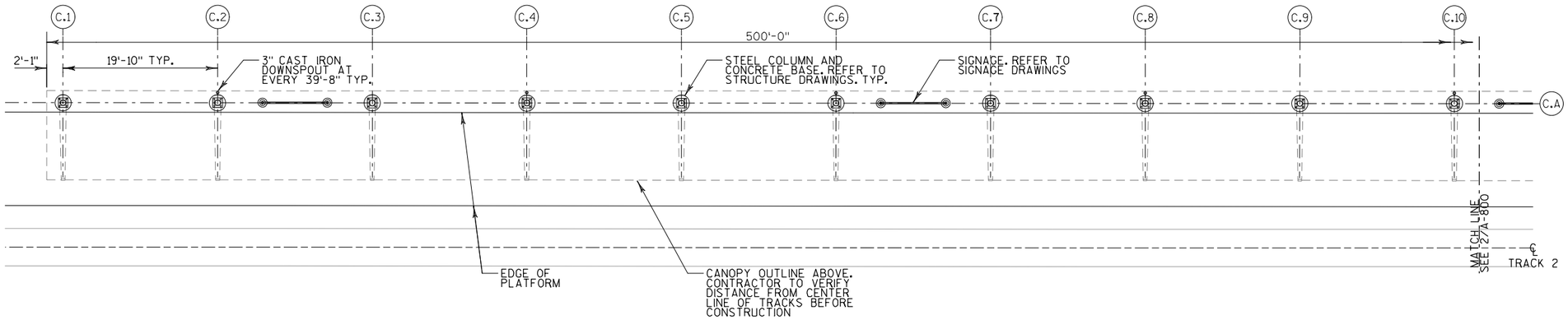
SHEET A-711
PRE_234

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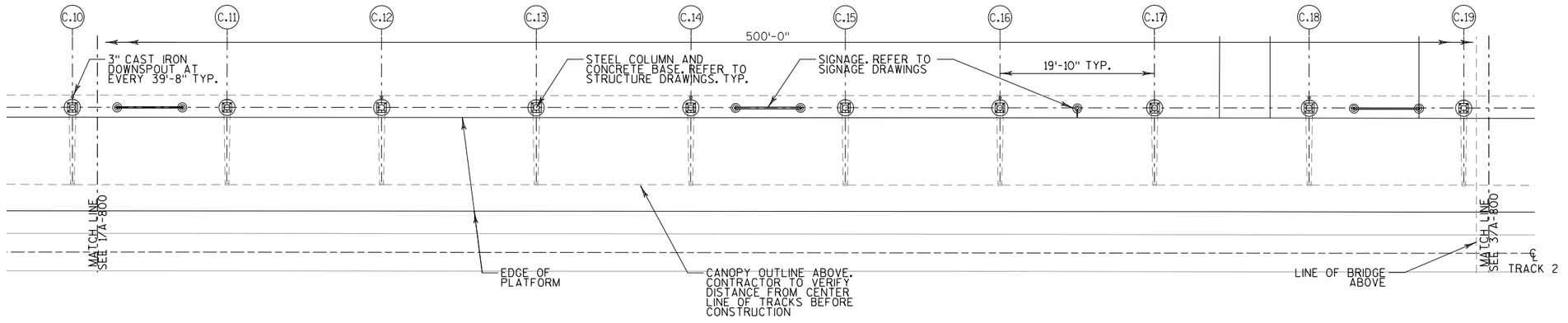
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STATE PROJECT NUMBER

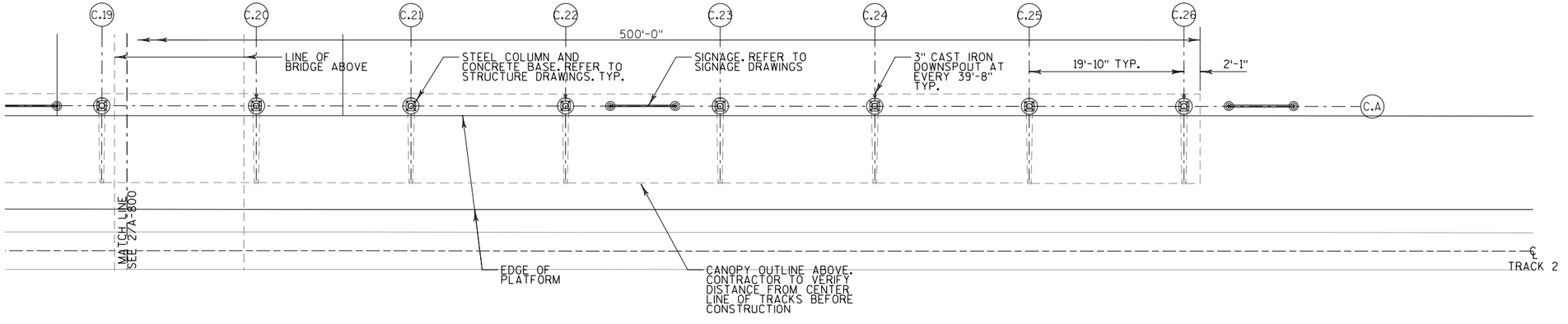
1000-57-05



1 A-800 CANOPY PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N



2 A-800 CANOPY PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N



3 A-800 CANOPY PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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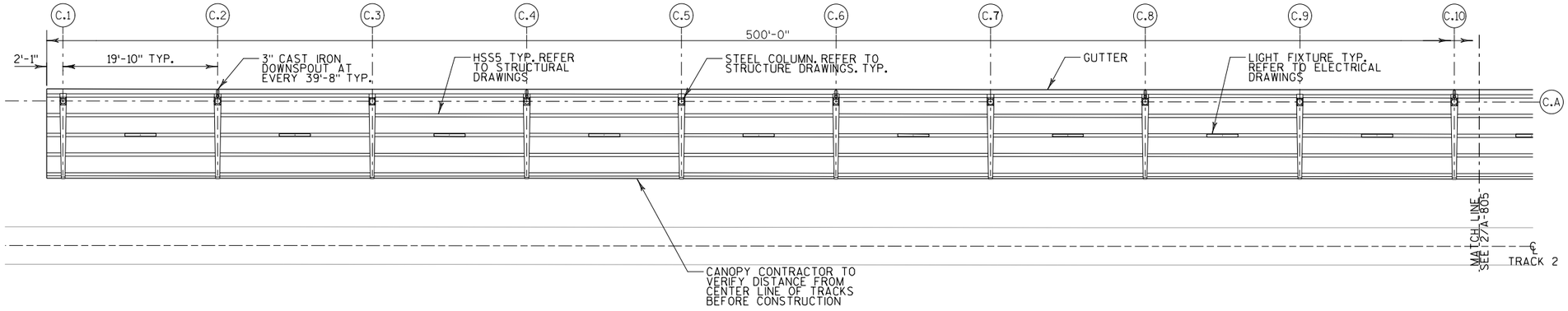
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CANOPY PLAN

SHEET A-800
PRE_235

STATE PROJECT NUMBER

1000-57-05

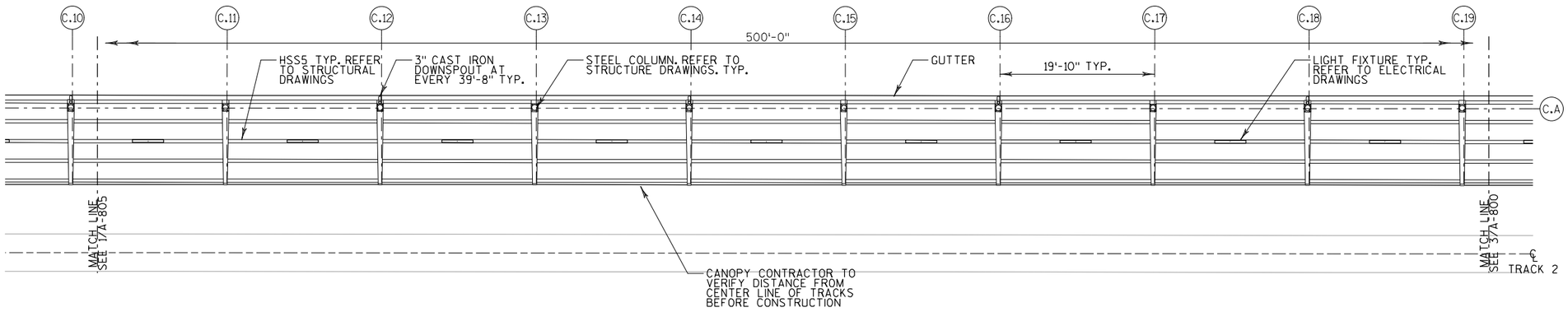


1 A-805 CANOPY REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

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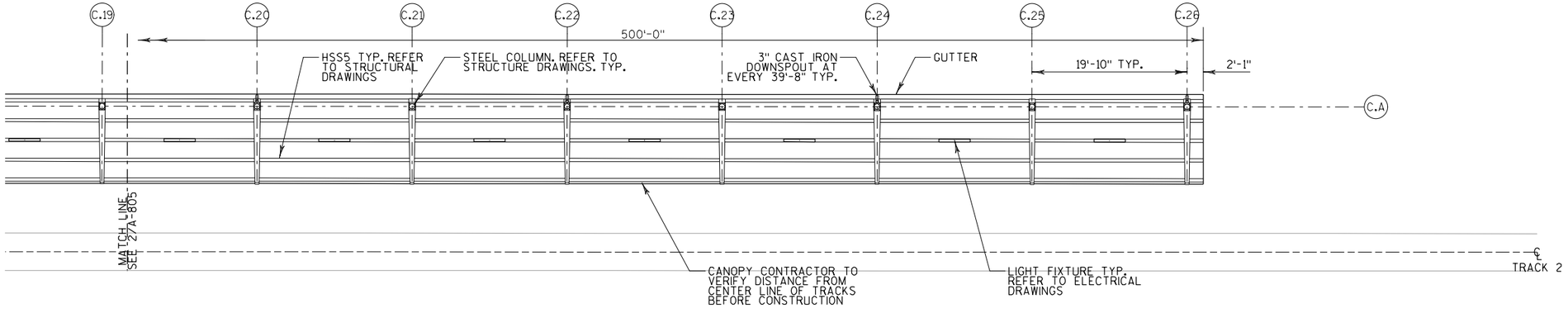


2 A-805 CANOPY REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N



3 A-805 CANOPY REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

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CANOPY REFLECTED CEILING PLAN

SHEET A-805

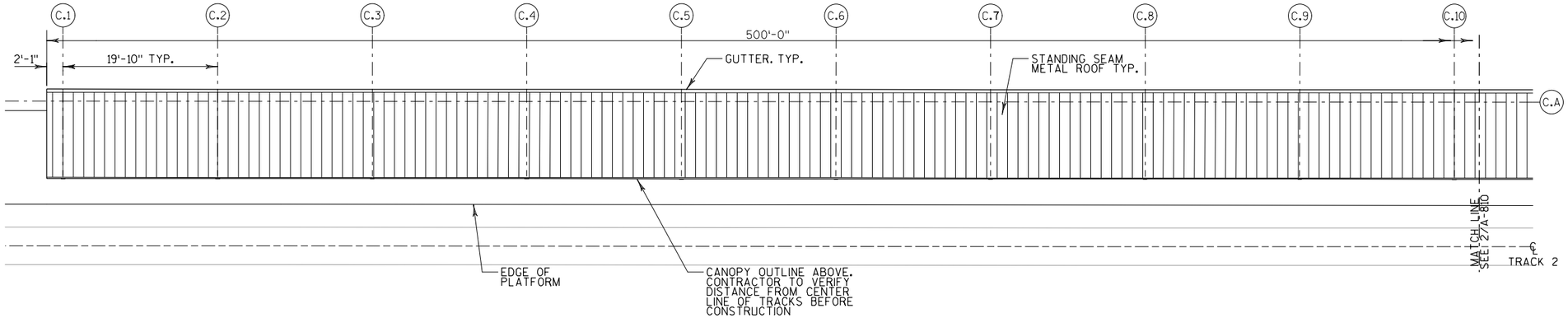
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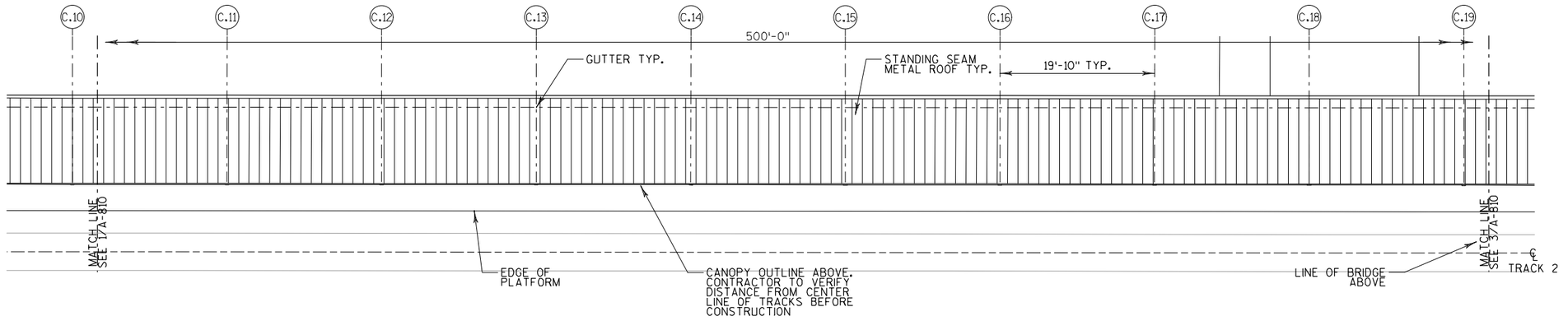
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BATCH PRINT SHEET CSD OF NSD
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PLOT DATE: $$...plottingdate...$$
PLOT TIME: $$...plottingtime...$$

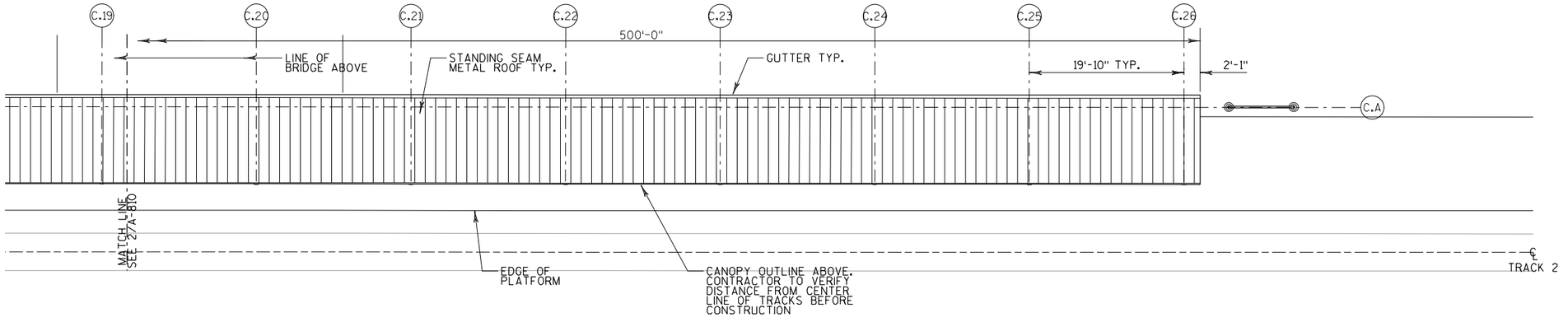
STATE PROJECT NUMBER
1000-57-05



1 A-810 CANOPY ROOF PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N



2 A-810 CANOPY ROOF PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N



3 A-810 CANOPY ROOF PLAN
SCALE: 1/8"=1'-0"
0 4 8 16 FT
N

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CANOPY ROOF PLAN

SHEET A-810
PRE_237

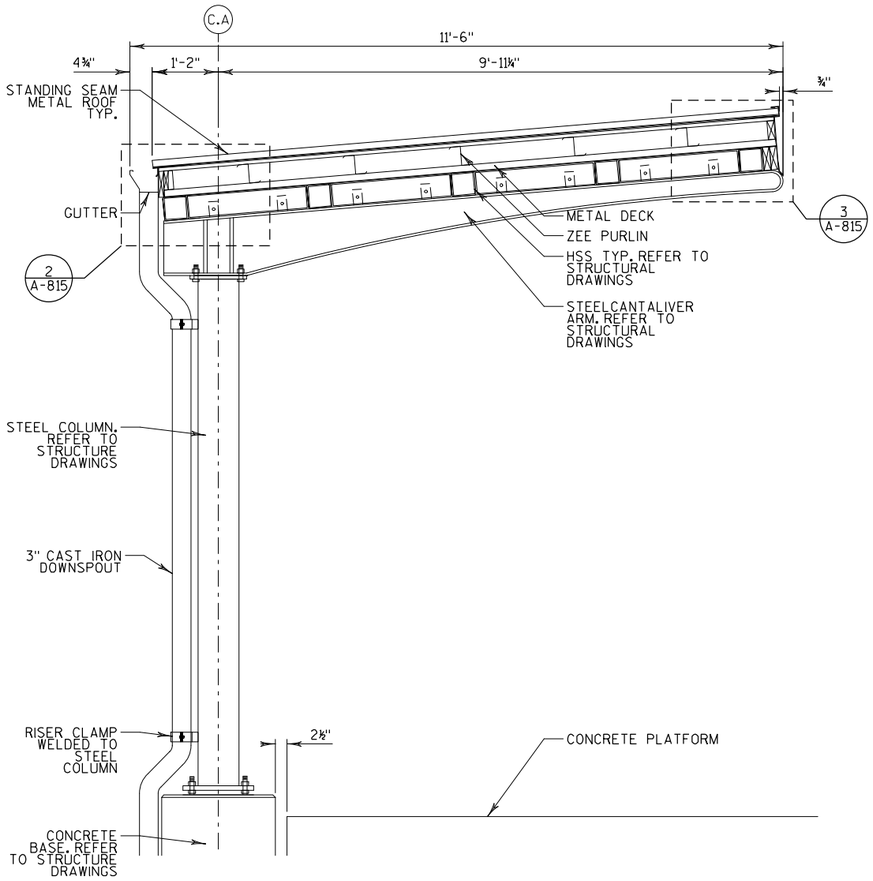
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BATCH PRINT SHEET CSD OF NSD
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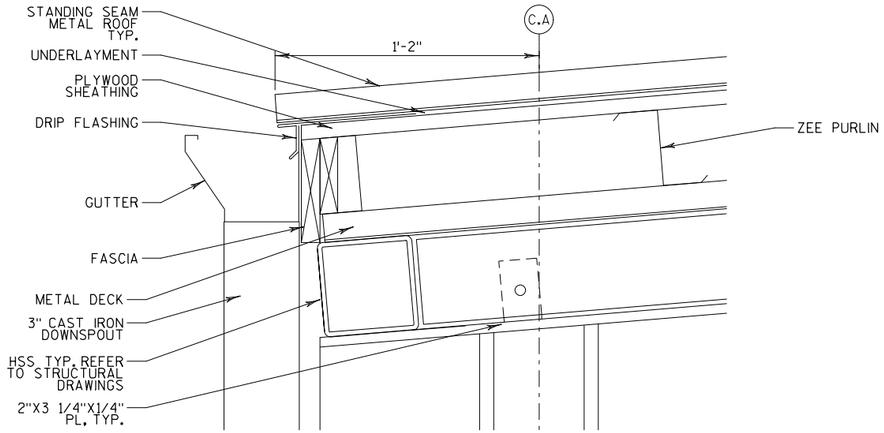
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1000-57-05



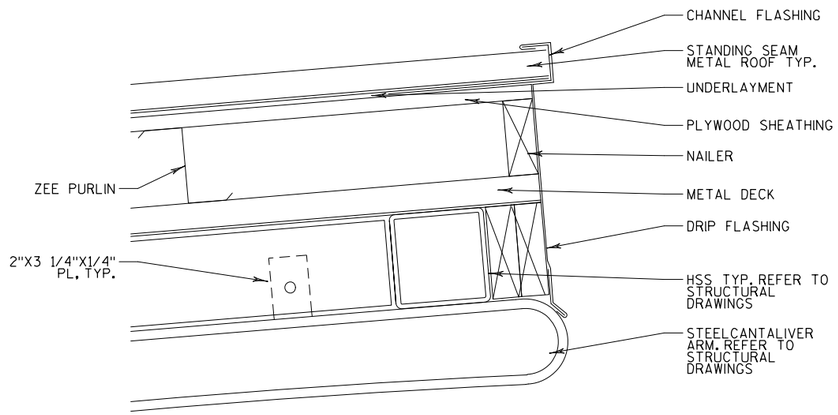
1 A-815 CANOPY CROSS SECTION

SCALE: 3/4"=1'-0"



2 A-815 CANOPY COPING DETAIL

SCALE: 6"=1'-0"



3 A-815 CANOPY COPING DETAIL

SCALE: 6"=1'-0"

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CANOPY SECTION AND DETAIL

SHEET A-815

PRE_238

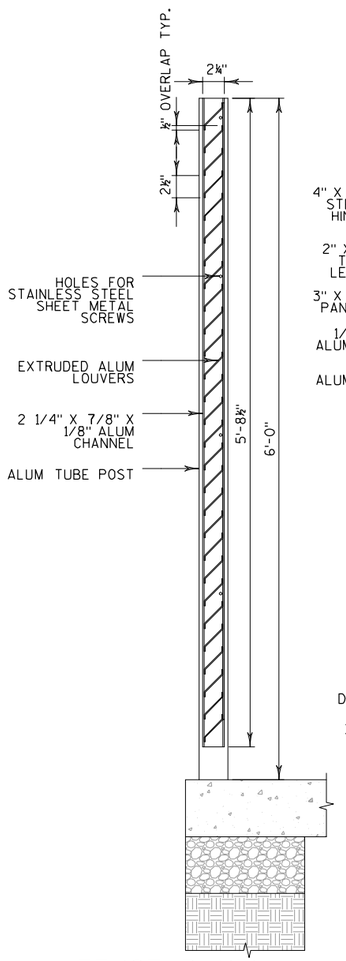
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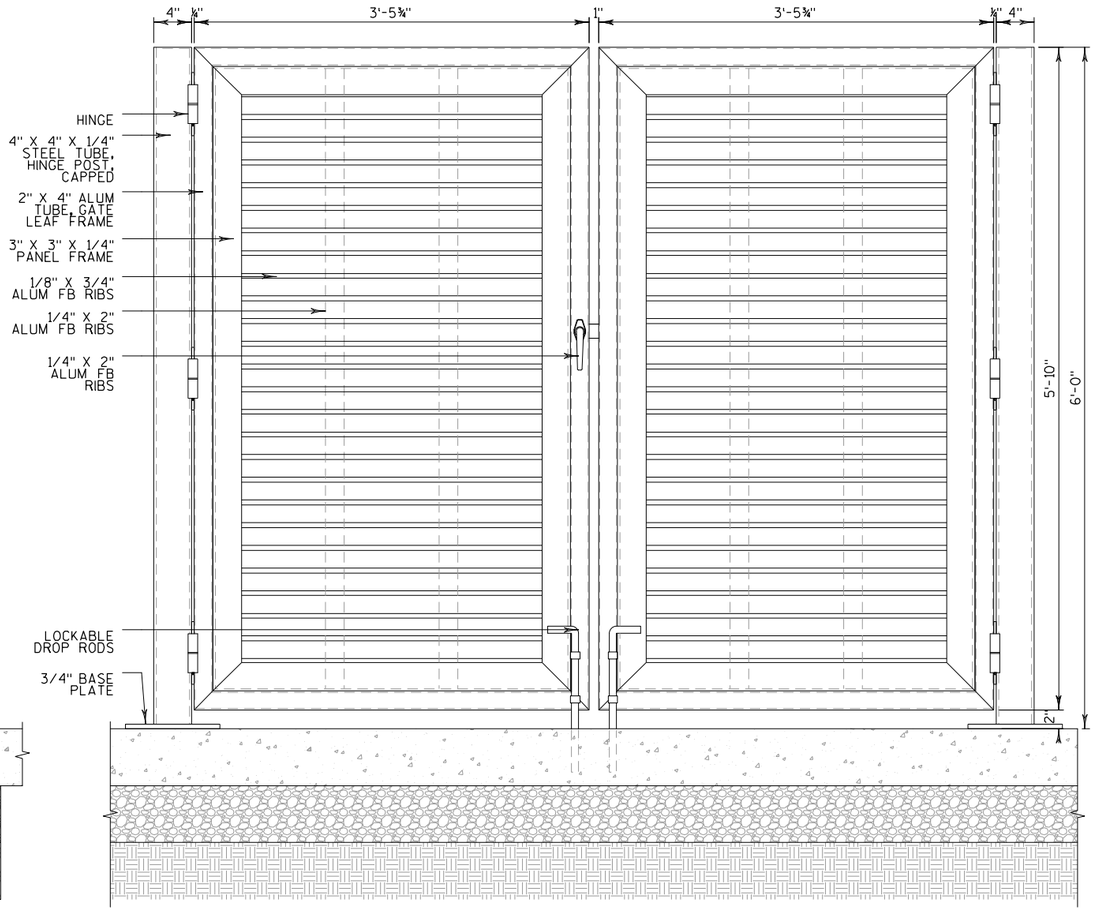
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STATE PROJECT NUMBER

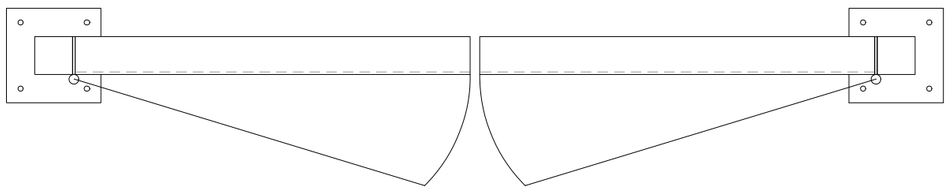
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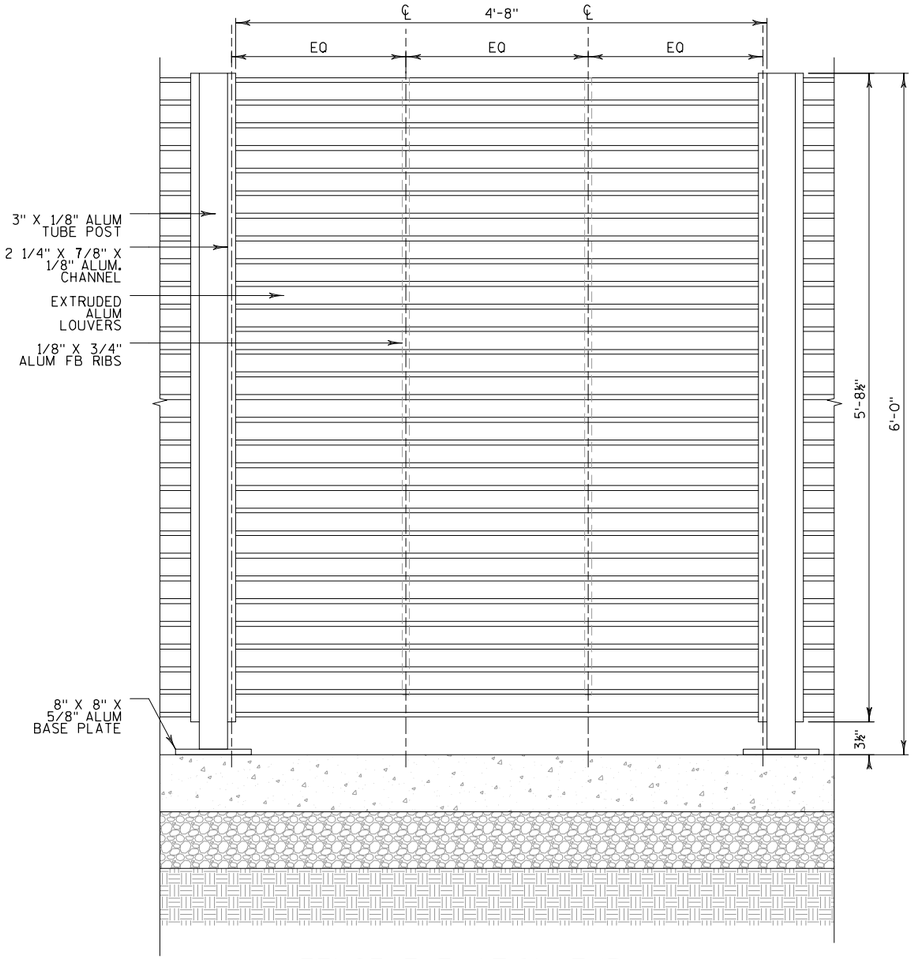
5 A-521 FENCE PANEL SECTION TYP.
SCALE: 1 1/2"=1'-0" 0 4 8 16 IN



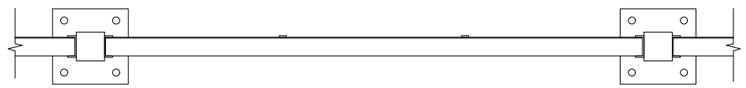
4 A-521 FENCE GATE ELEVATION
SCALE: 1 1/2"=1'-0" 0 4 8 16 IN



3 A-521 FENCE GATE PLAN
SCALE: 1 1/2"=1'-0" 0 4 8 16 IN



2 A-521 FENCE ELEVATION TYP.
SCALE: 1 1/2"=1'-0" 0 4 8 16 IN



1 A-521 FENCE PLAN TYP.
SCALE: 1 1/2"=1'-0" 0 4 8 16 IN

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EXTERIOR FENCE PLAN & DETAILS

SHEET A-830

PRE_239

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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plotingdate...$$ PLOT TIME: $$...plotingtime...$$

STATE PROJECT NUMBER

1000–57–05

MECHANICAL ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED.

ABBREVIATION	DESCRIPTION
(D)	EXISTING TO BE DEMOLISHED
(E)	EXISTING TO REMAIN
(F)	FUTURE
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
ARC	AIR CURTAIN
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CL	CENTER LINE
CO	CLEAN OUT
COMPR	COMPRESSOR
COP	COEFFICIENT OF PERFORMANCE
CV	CONSTANT VOLUME
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
ID	INNER DIAMETER
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOX	NITROUS OXIDE
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PD	PRESSURE DROP
PG	PROPYLENE GLYCOL
PPH	POUNDS PER HOUR
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REFRIG	REFRIGERANT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS
WB	WET BULB
WG	WATER GAUGE
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

MECHANICAL SHEET INDEX

SHEET NUMBER	SHEET TITLE
M-001	MECHANICAL LEGEND AND GENERAL NOTES
M-200	MECHANICAL FIRST FLOOR PLAN
M-201	MECHANICAL SECOND FLOOR PLAN
M-202	MECHANICAL ROOF PLAN
M-300	MECHANICAL SCHEDULES
M-400	MECHANICAL DETAILS

GENERAL NOTES

1. LEGENDS, SYMBOLS NOTES AND ABBREVIATIONS PERTAIN TO MECHANICAL DRAWINGS ONLY.

2. ALL LEGEND SYMBOLS AND ABBREVIATIONS DO NOT NECESSARILY APPEAR IN THESE CONTRACT DOCUMENTS. SEE DRAWINGS FOR ADDITIONAL SYMBOLS, ABBREVIATIONS AND NOTES.

3. THOROUGHLY INVESTIGATE AND VERIFY ALL EXISTING FIELD CONDITIONS PRIOR TO THE START OF CONSTRUCTION.

4. PROVIDE ALL NECESSARY AND SHOWN MATERIAL, EQUIPMENT OR WORK SHOWN ON DOCUMENTS UNLESS SPECIFICALLY INVOKED TO BE OTHERS.

5. COORDINATE INSTALLATION OF NEW PIPING AND DUCTWORK WITH ALL OTHER TRADES PRIOR TO THE FABRICATION AND INSTALLATION OF ALL SYSTEMS.

6. THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN NATURE AND, DUE TO THE SCALE OF DRAWINGS IT IS NOT FEASIBLE TO SHOW ALL OFFSETS, FITTINGS AND OTHER APPURTENANCES NECESSARY TO MEET THE ACTUAL FIELD CONDITIONS. PROVIDE ALL OFFSETS, FITTINGS, VALVES, TRAPS AND OTHER MATERIAL AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM WITHOUT ADDITIONAL COST TO THE OWNER.

7. COORDINATE WITH THE ELECTRICAL CONTRACTOR ALL ELECTRICAL REQUIREMENTS FOR EQUIPMENT PROVIDED, INCLUDING STARTERS, DISCONNECTS, FUSES, TRANSFORMERS, ETC.

8. ALL OPENINGS (FLOOR, WALLS AND ROOF), LOCATIONS OF EQUIPMENT, DUCT AND PIPE, ETC. ARE SIZED IN ACCORDANCE WITH SCHEDULED EQUIPMENT. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR THE ACTUAL EQUIPMENT SIZES AND REVISION OF LOCATION FOR ANY EQUIPMENT AS REQUIRED TO SUIT PROJECT CONDITIONS. THE LISTED SCHEDULES FORM THE BASIS OF DESIGN.

9. REFER TO MECHANICAL DRAWINGS, PLUMBING DRAWINGS, AND BUILDING CODES PROVISIONS FOR REQUIREMENTS AND METHODS OF INSTALLATION, PRODUCTS AND GENERAL PROVISIONS PERTAINING TO THE CONTRACT REQUIREMENTS.

10. ALL DUCT DIMENSIONS SHOWN ARE CLEAR OPEN, INSIDE FREE AREA. OVERSIZE DUCTS TO ACCOMMODATE LINER, AS REQUIRED. UON, CONSTRUCT DUCTS TO 2" ± STATIC PRESSURE WITH CLASS A SEALING.

11. ALL NECESSARY CUTTING AND PATCHING IN FLOOR SLABS, WALLS, CEILINGS AND ROOF, FOR THE HVAC WORK SHALL BE PERFORMED BY THIS CONTRACTOR. RESTORE TO MATCH EXISTING CONDITIONS.

12. CUTTING AND DRILLING:

A. PERFORM CUTTING AND DRILLING OF EXISTING FLOORS, WALLS, PARTITIONS, CEILINGS, ROOFS AND THE LIKE FOR INSTALLATION OF NEW WORK SHOWN, INCLUDING CUTTING OF HOLES AND OTHER OPENINGS FOR NEW PIPES, DUCTS, CONDUITS, FITTINGS, EQUIPMENT AND OTHER WORK.
B. PERFORM CUTTING BY HAND OR WITH SMALL POWER TOOLS WHEREVER POSSIBLE. CUT HOLES AND SLOTS NEATLY TO SIZE REQUIRED, WITH MINIMUM DISTURBANCE OF ADJACENT WORK. CUT ROUND HOLES IN CONCRETE SLABS, FLOORS AND WALLS FOR PIPES AND CONDUIT WITH CORE DRILLS OR REQUIRED SIZES AND TYPES. CUT SQUARE AND RECTANGULAR HOLES BY LINE DRILLING AND USING CHIPPING HAMMERS TO REMOVE MATERIAL BETWEEN DRILL HOLES. LARGE AIR HAMMERS WILL NOT BE PERMITTED.
C. DRILLING OR CUTTING OF COLUMNS, BEAMS, JOIST, GIRDERS, OR OTHER STRUCTURAL SUPPORTING ELEMENTS WILL NOT BE PERMITTED, UNLESS SPECIFICALLY APPROVED IN EACH CASE.
D. COVER OPENINGS TEMPORARILY WHEN NOT IN USE AND PATCH AS SOON AS WORK IS INSTALLED.
E. PROVIDE SLEEVES FOR ALL PIPES AND ALL CONDUIT PENETRATING EXISTING WALLS, CEILINGS, FLOORS, ROOFS, AND FOUNDATIONS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES.
F. PROPERLY CLOSE, FIRESTOP AND PATCH HOLES IN EXISTING FLOORS, WALLS, CEILINGS, AND ROOFS RESULTING FROM THE WORK, MATCH ADJACENT UNDISTURBED SURFACES.

13. CONNECTIONS TO EXISTING WORK:

A. THE CONTRACTOR SHALL PLAN INSTALLATION OF NEW WORK AND CONNECTION TO EXISTING WORK TO INSURE MINIMUM INTERFERENCE WITH REGULAR OPERATION OF EXISTING FACILITIES. ALL SYSTEM SHUTDOWNS AFFECTING OTHER AREAS SHALL BE COORDINATED WITH THE ENGINEER.
B. CONNECT NEW WORK TO EXISTING WORK IN A NEAT AND APPROVED MANNER, RESTORE EXISTING WORK DISTURBED WHILE INSTALLING NEW WORK TO ACCEPTABLE CONDITION AS DETERMINED BY ENGINEER.

14. REMOVAL AND RELOCATION OF EXISTING WORK:

A. DISCONNECT AND REMOVE EXISTING MATERIAL, EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM(S). CUT AND CAP PIPING AND DUCTWORK AS REQUIRED.
B. ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED TO BRICKWORK, MORTAR, CONCRETE, RUBBLE, REINFORCING BARS, LATHING AND EARTH SHALL BE REMOVED FROM THE PREMISES AND DISPOSED BY THE CONTRACTOR AWAY FROM THE SITE LEGALLY.
C. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK.

15. ACCESS DOORS, TO BE FURNISHED AND INSTALLED BY GENERAL CONTRACTOR CONSTRUCTION TRADE WHICH WILL BE REQUIRED FOR PROPER OPERATION AND MAINTENANCE OF ALL CONCEALED HVAC EQUIPMENT, DAMPERS, AIR VENTS, AIR TERMINALS, CONTROLS, VALVES AND OTHER SIMILAR DEVICES. PREPARE A LIST AND SUBMIT TO THE GENERAL CONTRACTOR FOR HIS INSTALLATION. COORDINATE LOCATIONS WITH PROJECT ENGINEER.

16. PRIOR TO PURCHASING ANY MATERIALS OR STARTING ANY WORK, FIELD VERIFY ALL EXISTING CONDITIONS, DUCTWORK SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE PROJECT ENGINEER.

17. SHOP DRAWINGS SHALL BE SUBMITTED AND REVIEWED PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SCHEDULED OR SPECIFIED ON THE DRAWINGS; DUCTWORK DRAWN TO 3/8" SCALE OR THE SCALE SHOWN ON THE DRAWINGS; AND CONTROL WIRING SCHEMATICS APPROVED BY THE AIR CONDITIONING EQUIPMENT MANUFACTURER.

18. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING EQUIPMENT OR SUBMITTING SHOP DRAWINGS, AND FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.

19. ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH FUSIBLE DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE WITH EQUIPMENT CHARACTERISTICS AND ELECTRICAL DRAWINGS.

20. ALL REQUIRED CONTROL WIRING NOT SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE INCLUDED AS PART OF THE MECHANICAL WORK.

21. CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

22. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE OFFSETS IN DUCTWORK AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY PROJECT ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.

23. DRAWINGS FOR WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

24. UNLESS NOTED OTHERWISE, STARTERS, SMOKE DETECTORS, TRANSFORMERS, CONTROLS AND CONTROL WIRING REQUIRED FOR ALL MECHANICAL SYSTEMS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

25. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.

26. ANY EXISTING WALL, FLOOR, OR CEILING SURFACE THAT IS DISTURBED DURING THE COURSE OF THE HVAC WORK SHALL BE REPAIRED TO MATCH NEW AND/OR EXISTING CONDITIONS.

27. COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR OTHERWISE ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE PROJECT ENGINEER.

28. LOCATIONS OF GRILLES, REGISTERS, & DIFFUSERS SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT LOCATIONS WITH LIGHTS, CEILING GRID, REFLECTED CEILING PLAN ETC.

29. ALL WORK SHALL COMPLY WITH AMTRAK DESIGN STANDARDS AND STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF ANY INTERIM AMENDMENTS.

REFER TO HVAC KEY NOTES ON ALL DRAWINGS REGARDING SCOPES OF WORK.

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING DUCTWORK, PIPING OR EQUIPMENT TO BE REMOVED
	EXISTING DUCT TO BE REMOVED
	DUCT DIRECTION OF AIR FLOW
12x10	DUCT SIZE, FIRST FIGURE IS SIDE DOWN
	CONNECT NEW WORK TO EXISTING
FW	FLEXIBLE CONNECTION
	FLEXIBLE DUCT
12x6 8x6	TRANSITION
	ELBOW WITH TURNING VANES
	POINT OF DISCONNECTION / POINT OF CONNECTION
T	WALL MOUNTED THERMOSTAT OR TEMPERATURE SENSOR
	ACCESS DOOR
	AIR OUTLETS
U# "	DOOR UNDERCUT
	UNION JOINT
	TEE-UP, BRANCH OUT OF TOP
	TEE-DOWN, BRANCH OUT OF BOTTOM
	ELBOW-UP
	ELBOW-DOWN
BDD	BACKDRAFT DAMPER
	GATE VALVE
	CLEANOUT
MD	MOTORIZED DAMPER

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MECHANICAL

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DT	FA	

MECHANICAL LEGEND & GENERAL NOTES

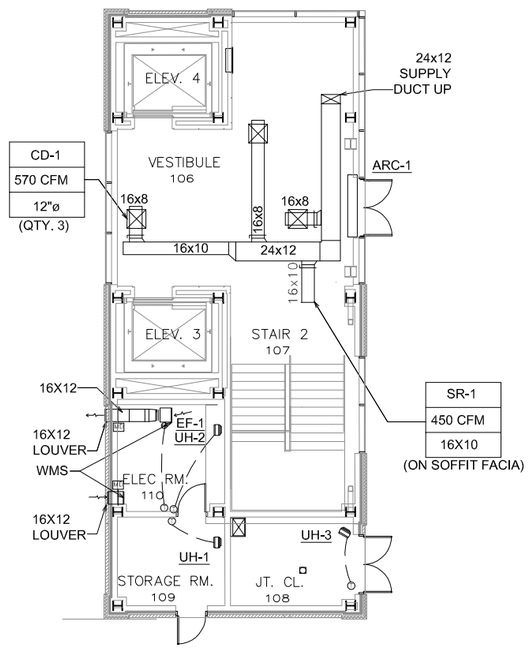
M-001

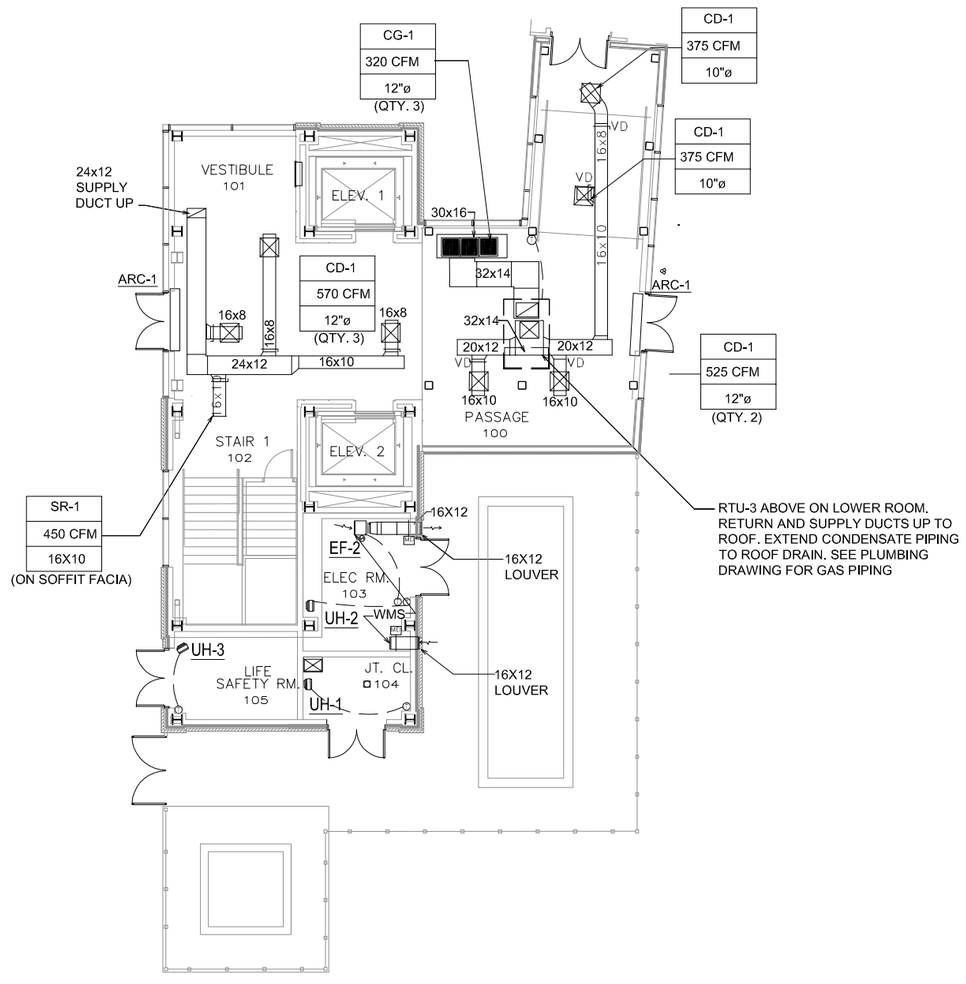
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8

STATE PROJECT NUMBER

1000-57-05





1 M-200 WEST TOWER FIRST FLOOR PLAN

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

0 8 16 32 FT

N

2 M-200 EAST TOWER FIRST FLOOR PLAN

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

0 8 16 32 FT

N

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STATE OF WISCONSIN
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MECHANICAL

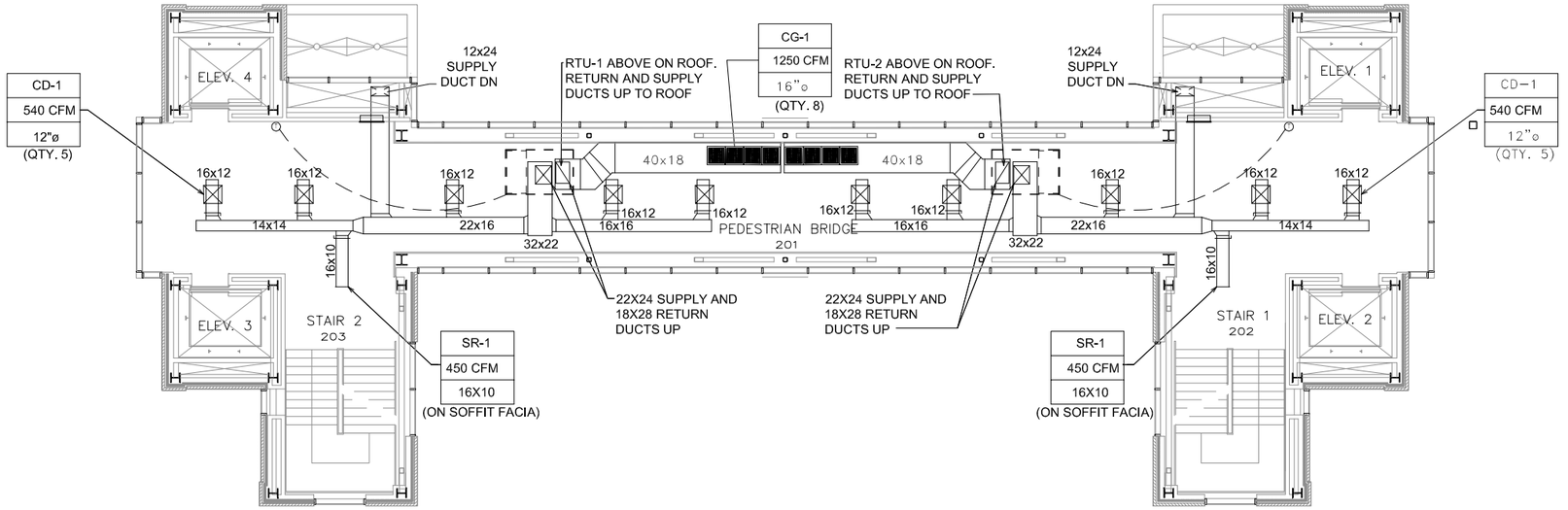
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MECHANICAL FIRST FLOOR PLANS

M-200

PRE_241

STATE PROJECT NUMBER
1000-57-05



1 M-201 SECOND FLOOR PLAN

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

0 8 16 32 FT

N

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STATE OF WISCONSIN
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MECHANICAL

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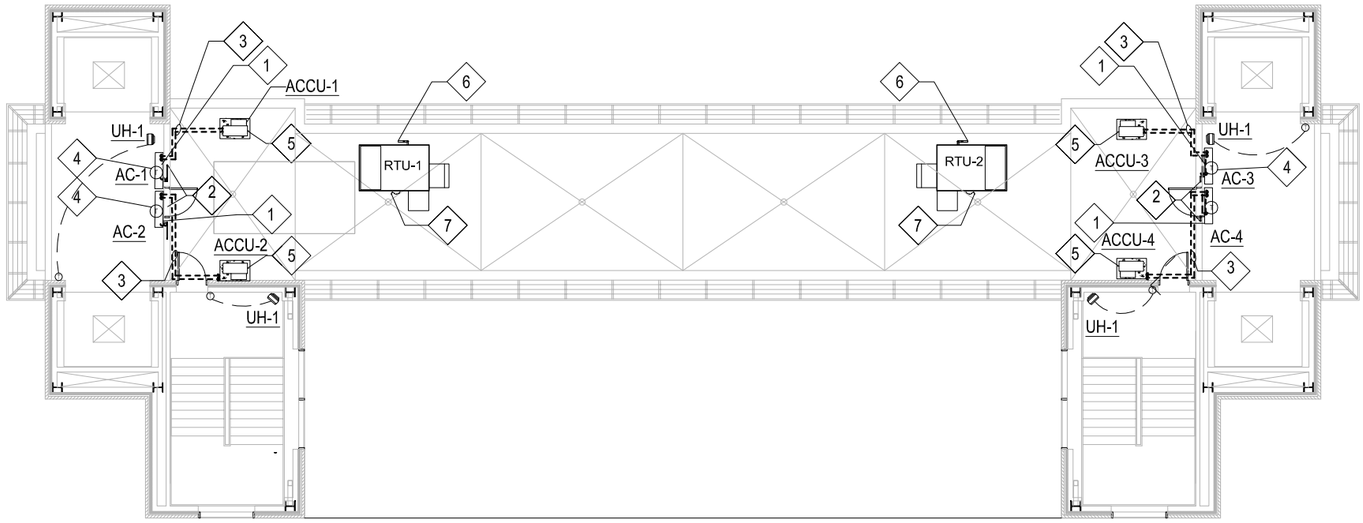
MECHANICAL SECOND FLOOR PLAN

M-201

PRE_242

STATE PROJECT NUMBER

1000-57-05



1 M-202 ROOF PLAN

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

0 8 16 32 FT

N

SHEETNOTES - MECHANICAL CONSTRUCTION PLAN

NO.	DESCRIPTION
1	WALL MOUNTED AC UNIT. MOUNT ABOVE DOOR LEVEL USING MFGR SUPPLIED WALL BRACKET, KINDORFS AND WALL ANCHORS. COORDINATE FINAL LOCATION WITH ELEVATOR CONTRACTOR.
2	EVAPORATOR CONDENSATE DRAIN TO SPILL ON ROOF. COORDINATE ROUTING WITH ELEVATOR CONTRACTOR TO ENSURE NOT CROSSING OVER EQUIPMENT.
3	REFRIGERANT PIPING BETWEEN INDOOR EVAPORATOR AND OUTDOOR CONDENSING UNIT. ROUTE AND SIZE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE ROUTING WITH ELEVATOR CONTRACTOR TO ENSURE NOT CROSSING OVER EQUIPMENT.
4	WALL MOUNTED THERMOSTAT FOR SPLIT SYSTEM.
5	OUTDOOR CONDENSING UNIT MOUNTED ON HOUSEKEEPING PAD ON ROOF. PROVIDE VIBRATION ISOLATION.
6	EXTEND CONDENSATE PIPING TO NEAREST ROOF DRAIN
7	GAS PIPING TO RTU, REFER TO PLUMBING DRAWINGS.

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MECHANICAL

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DT	FA	M-202

MECHANICAL ROOF PLAN

PRE_243

STATE PROJECT NUMBER

1000-57-05

ROOFTOP AC UNIT SCHEDULE

GENERAL DATA					SUPPLY FAN						DX COOLING						GAS HEATING					ELECTRICAL			WEIGHT
UNIT NO.	SERVICE	LOCATION	MFGR.	MODEL NO.	O.A. CFM	TOTAL CFM	ESP IN WC	FAN SPEED MAX. REQ'D. RPM	FAN SPEED MAX. REQ'D. BHP	FAN SPEED MAX. REQ'D. HP	TC MBH	SC MBH	EER	EAT F, DB/WB	LAT F, DB/WB	REFRIG.	INPUT MBH	OUTPUT MBH	SSE %	EAT °F, DB	LAT °F, DB	VOLTAGE	MCA	MOCP	TOTAL LBS
RTU-1	BRIDGE LEVEL WEST TOWER/VESTIBULE	ROOF	JCI	J15ZJS	450	5400	1.0	1725	3.93	5	182.9	127.3	11.2	80/67	55.4/54.0	R-410A	180	144	80	60	95	460V-3PH	37.6	40	3539
RTU-2	BRIDGE LEVEL EAST TOWER/VESTIBULE	ROOF	JCI	J15ZJS	450	5400	1.0	1725	3.93	5	182.9	127.3	11.2	80/67	55.4/54.0	R-410A	180	144	80	60	95	460V-3PH	37.6	40	3539
RTU-3	EAST TOWER/VESTIBULE	LOWER ROOF	JCI	J05ZFN	250	1800	1.0	1725	1.11	2	58.1	42.0	11.8	80/67	55.4/54.0	R-410A	120	197	80	60	95	460V-3PH	13.5	20	739

NOTES:
1. TWO STAGE COOLING
2. SCROLL COMPRESSORS
3. MERV 13 FILTERS
4. SINGLE-PONT POWER CONNECTION
5. ECONOMIZER WITH POWER EXHAUST
6. HOT GAS REHEAT
7. SINGLE ZONE VAV FAN OPERATION
8. SMART BAS EQUIPMENT CONTROLLER WITH DISCHARGE AIR, RETURN AIR AND OA TEMPERATURE SENSORS
9. DEMAND CONTROLLED VENTILATION WITH CO2 SENSOR
10. DUAL ENTHALPY SENSORS
11. SUPPLY AND RETURN SMOKE DETECTORS
12. 14" HIGH ROOF CURB
13. DEHUMIDIFICATION CONTROLS

AIR COOLED SPLIT HEAT PUMP SYSTEM

INDOOR EVAPORATOR- WALL MOUNTED

UNIT NO.	SERVICE	CFM	COOLING CAPACITY	HEATING CAPACITY	VOLTAGE	FLA	WEIGHT LBS.	MANUFACTURER AND MODEL NO.
AC-1/AC-2 AC-3/AC-4	ELEV. MACHINE RM.	736	30 MBH	32 MBH	208V-1PH	1.0	60	MITSUBISHI ELECTRIC - PKA-A30KA7 OR APPROVED EQUAL

NOTES:
1. WALL MOUNT BRACKET AND MOUNTING BASE
2. FURNISH WITH WALL THERMOSTAT.
3. DISCONNECT

OUTDOOR CONDENSING UNIT- HEAT PUMP

GENERAL			COMPRESSOR		ELECTRICAL			WEIGHT LBS.	MANUFACTURER AND MODEL NO.
UNIT NO.	NOMINAL TONS	SEER	REFR.	TYPE	VOLTAGE	AMPS MCA	AMPS MOCP		
ACCU-1 ACCU-2 ACCU-3 ACCU-4	2.5	18.0	R-410A	SCROLL-DC INVERTER	208V-1PH	24	40	170	MITSUBISHI ELECTRIC - PUZA30NHA6 OR APPROVED EQUAL

NOTES:
1. HOUSEKEEPING PAD AND MOUNTING BASE

UNIT HEATER SCHEDULE

UNIT TAG	SERVICE	CFM	HP	ELEC V	ELEC Ø	ELEC KW	ELEC AMPS	AIR ENT.°F	AIR LVG.°F	WEIGHT (LBS)	MODEL NO.	MANUFACTURER.	REMARKS
UH-1	END PLATFORM - ELEVATOR VESTIBULE	350	1/6	480	1	5	11	45	90	27	MUH0581	MARLEY OR APPROVED EQUAL	CLG. MOUNTED, FURNISH WITH THERMOSTAT, HANGERS
UH-2	END PLATFORM - ELEVATOR VESTIBULE	350	1/6	480	1	3.7	9	45	80	27	MUH0521	MARLEY OR APPROVED EQUAL	CLG. MOUNTED, FURNISH WITH THERMOSTAT, HANGERS
UH-3	END PLATFORM - ELEVATOR VESTIBULE	350	1/6	480	1	2.2	7	45	65	27	MUH0321	MARLEY OR APPROVED EQUAL	CLG. MOUNTED, FURNISH WITH THERMOSTAT, HANGERS

AIR CURTAIN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	SERVES.	AIRFLOW	HP	ELECTRICAL VOLTAGE	ELECTRICAL MCA	ELECTRICAL MOCP	ACCESS.	NOTES
ARC-1	MARS AIR	QP1096-3U A-AL	PLATFORM STAIR ENTRANCE	VARIABLE	0.5	120V / 1PH	10.2	15	2-4	1,2

ACCESSORIES:
1. NSF LISTING
2. DOOR SWITCH
3. DELAY TIMER
4. MOUNTING BRACKET

NOTES:
1. SET DELAY TIMER TO 30 SECONDS
2. MAINTAIN 7" CLEARANCE FOR MOTOR ACCESS ON SIDE OF AIR CURTAIN.

CEILING DIFFUSERS/RETURN GRILLES

MFR.: TITUS OR APPROVED EQUAL

TAG	CFM RANGE	NOMINAL NECK SIZE	FACE SIZE	MODEL	REMARKS
SR-1	0-500	SEE PLANS	16"x6"	300RL	SURFACE MOUNTED SUPPLY GRILLE
CG-1	0-2400	SEE PLANS	24"x20"	350RS	SURFACE MOUNTED EXHAUST GRILLE
CG-2	0-300	SEE PLANS	12"x12"	350RS	SURFACE MOUNTED EXHAUST GRILLE
CG-3	0-10	SEE PLANS	6"x6"	350RS	SURFACE MOUNTED EXHAUST GRILLE
CD-1	0-600	SEE PLANS	24"x24"	OMNI	LAY-IN DIFFUSER

1. COORDINATE EXACT LOCATION AND COLOR WITH ARCHITECTS DRAWINGS.
2. FOR 2-WAY OR 3-WAY BLOW, BLANK OFF NECK (NECK TO BE NEXT SIZE).
3. ALL SUPPLY REGISTERS SHALL BE DOUBLE DEFLECTION TYPE, VERTICAL FRONT BLADES

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2	
MANUFACTURER	PENN BARRY	PENN BARRY	
TYPE	CABINET	CABINET	
MODEL	Z8H (TDA)	Z8H (TDA)	
CFM	300	300	
STATIC PRESSURE	0.375"WG	0.375"WG	
RPM	1550	1550	
ELECTRICAL	115/1/60	115/1/60	
WATTAGE	132	132	
STYLE	TDA	TDA	
OPTIONS	1, 2, 3, 4, 5	1, 2, 3, 4, 5	
SERVICE	ELECTRICAL RM	ELECTRICAL RM	

1. SPEED CONTROL
2. VIBRATION ISOLATORS
3. DISCONNECT SWITCH
4. COOLING ONLY THERMOSTAT
5. MOTORIZED DAMPER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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MECHANICAL

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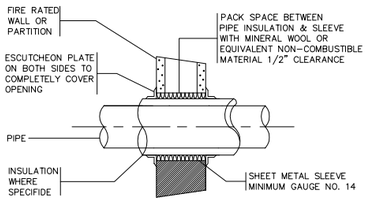
MECHANICAL SCHEDULES

M-300

PRE_244

STATE PROJECT NUMBER

1000-57-05

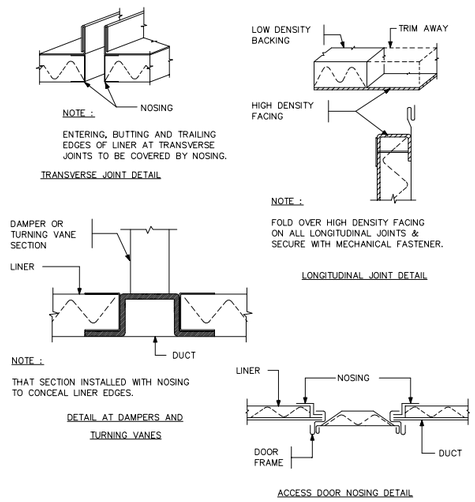


NOTE:

1.) THE INSTALLATION OF FIRE STOPPING MATERIALS SHALL BE SUBJECT TO CONTROLLED INSPECTION IN ACCORDANCE WITH C26-106.3.

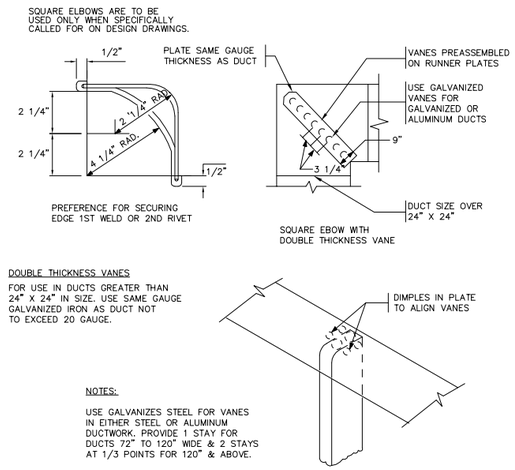
1 M-400 PIPE SLEEVE THRU RATED WALL

SCALE: NTS



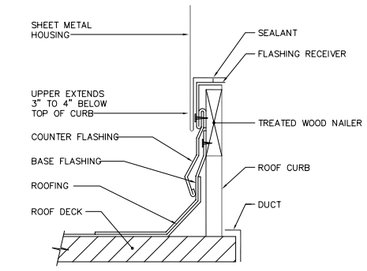
2 M-400 SOUND LINING NOSING DETAIL

SCALE: NTS



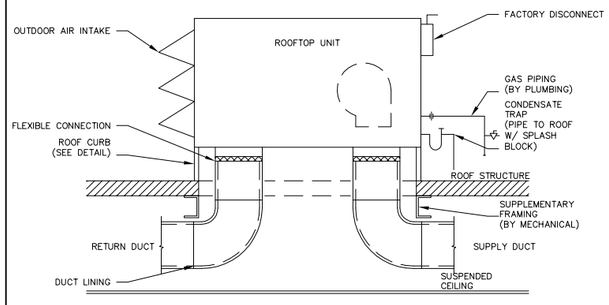
3 M-400 TURNING VANE DETAIL

SCALE: NTS



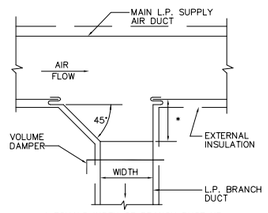
4 M-400 ROOF CURB DETAIL

SCALE: NTS



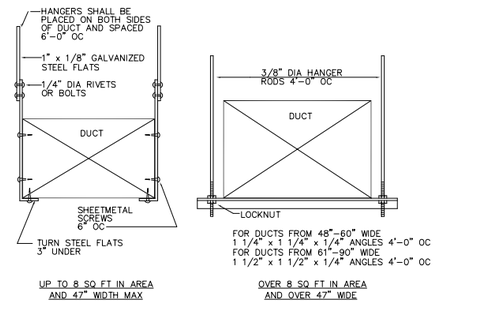
5 M-400 ROOFTOP UNIT INSTALLATION DETAIL

SCALE: NTS



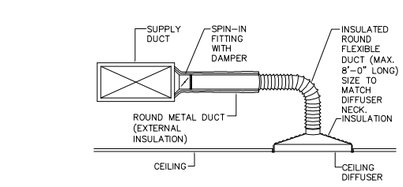
6 M-400 SUPPLY L.P. BRANCE DUCT DETAIL

SCALE: NTS



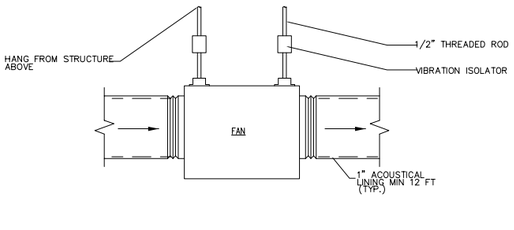
7 M-400 METHOD OF SUPPORTING DUCTS

SCALE: NTS



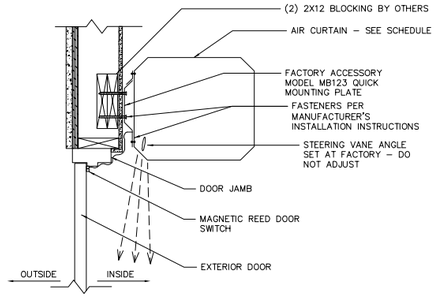
8 M-400 CEILING DIFUUSER RUNOUT DETAIL

SCALE: NTS



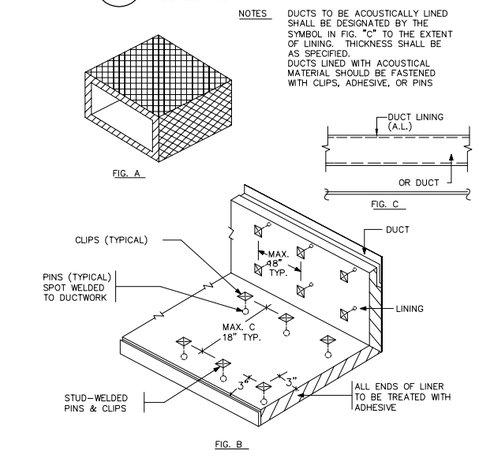
9 M-400 FAN INSTALLATION DETAIL

SCALE: NTS



10 M-400 AIR CURTAIN DETAIL

SCALE: NTS



11 M-400 ACOUSTICAL TREATMENT DUCT LINING

SCALE: NTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

MECHANICAL

DRAWN BY:	PLANS CK'D. BY:	SHEET
DT	FA	

MECHANICAL DETAILS

M-400

PRE_245

STATE PROJECT NUMBER
1000–57–05

ELECTRICAL SYMBOLS

CIRCUITING AND WIRING

- LA#1 — HOME RUN TO PANEL WITH CIRCUIT NUMBERS INDICATED. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. SEE NOTE 2.
- CONDUIT STUB UP.
- CONDUIT STUB DOWN.
- UNDERGROUND CONDUIT
- G — UNDERGROUND GROUNDING CABLE

LIGHTING

- NORMALLY OFF EMERGENCY WALL PACK LIGHT WITH BATTERY PACK.
- LED EXIT LIGHT WITH BATTERY PACK.
- COMBINATION LED EXIT LIGHT WITH BATTERY AND EMERGENCY LIGHT HEADS.
- LIGHTING FIXTURE (A # / EM a)
  A = LUMINAIRE TYPE
  a = SWITCH LEG/SWITCHING SCHEME
  # = CIRCUIT NUMBER
- A # / EM a — HATCH = EMERGENCY BATTERY INTEGRAL TO FIXTURE.
  EM = EMERGENCY BATTERY INTEGRAL TO FIXTURE.
- $a — WALL SWITCH, SPST, 120V GROUNDED VERTICALLY MOUNTED. SUBSCRIPT INDICATES:
  "a" CONTROLS LOAD "a"
  "3" DENOTES THREE–WAY SWITCH
  "T" DENOTES MOTOR RATED THERMAL SWITCH
  "TM" DENOTES TIMER SWITCH
  "K" DENOTES KEYED OVERRIDE SWITCH WITH BYPASS SWITCH
  "LV" DENOTES LOW VOLTAGE
- (OS) DUAL TECHNOLOGY OCCUPANCY SENSOR
- (VS) DUAL TECHNOLOGY VACANCY SENSOR
- (PS) PHOTOCELL SENSOR FOR DAYLIGHT DIMMING

MISCELLANEOUS

- J/(J) WALL/CEILING MOUNTED JUNCTION BOX.
- (C) CLOCK HANGER AND CLOCK RECEPTACLE
- TELEPHONE / OUTLET WITH 1" EC WITH DRAG LINE AND BUSHED 90 DEGREE ELBOW TERMINATED IN ACCESSIBLE CEILING.
- WP — PUSH PLATE WP INDICATES WEATHER PROOF

POWER

- SIMPLEX WALL RECEPTACLE. NEMA 5–20R, 20A, 125V, 3W, GND. "C" INDICATES CLOCK HANGAR AND RECEPTACLE.
- G — DUPLEX WALL MOUNTED RECEPTACLE. NEMA 5–20R, 20A, 125V, 3 WIRE, "G" DENOTES GROUND FAULT CIRCUIT INTERRUPTER.
- QUADRUPLEX RECEPTACLE, NEMA 5–20R, 20A, 125V, 3 WIRE.
- FUSED DISCONNECT SWITCH. ADJACENT TEXT 30A/3P/30A DENOTES AMP FRAME/POLES/FUSE SIZE
- DISCONNECT SWITCH, NON FUSED.
- PANELBOARD, FLUSH MOUNTED.
- PANELBOARD, SURFACE MOUNTED.
- S_T — MOTOR WITH LOCAL DISCONNECT SWITCH. S_T – INDICATES THERMAL SWITCH.
- ENCLOSED CIRCUIT BREAKER

SYMBOLS/ABBREVIATIONS NOTES

1. NOT ALL DEVICES, ABBREVIATIONS, AND EQUIPMENT INDICATED ON THIS SYMBOL LIST MAY NECESSARILY BE APPLICABLE TO THE PROJECT.
2. U.O.N, PROVIDE 20 AMP BRANCH CIRCUITS WITH A MINIMUM 2#12, 1#12G, 3/4" CONDUIT. ROUTING OF NEW RACEWAY SYSTEMS TO BE FIELD COORDINATED WITH EXISTING CONDITIONS. WHEREVER POSSIBLE, RACEWAYS TO BE INSTALLED CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS.
3. FOR ALL EXISTING CIRCUITS THE ELECTRICAL CONTRACTOR SHALL TAKE RESPONSIBILITY FOR THE ENTIRE CIRCUIT, AND MAKE ANY CORRECTIONS NECESSARY FOR THAT CIRCUIT TO MEET THE NEC. EXISTING TW, THW, OR THWN WIRE IN GOOD CONDITION MAY REMAIN FOR EXISTING BRANCH CIRCUIT EXISTING THW OR THWN WIRE IN GOOD CONDITION MAY REMAIN FOR FEEDERS.

ABBREVIATIONS

ABBR.	DESCRIPTION
A	AMPERES
ADA	AMERICANS WITH DISABILITIES ACT
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COMM	COMMUNICATIONS
CU	COPPER
DISC	DISCONNECT
DWG	DRAWING
EF	EXHAUST FAN
ELEC	ELECTRICAL
(E)	EXISTING EQUIPMENT (TO REMAIN)
(ER)	EXISTING EQUIPMENT TO BE RELOCATED (NOTE 3)
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
GND	GROUND, GROUND WIRE
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING DIVISION OF WORKS
JB	JUNCTION BOX
KVA	KILOVOLT AMPS
KW	KILOWATT
LTG	LIGHTING
MANUF	MANUFACTURER
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N/L	NIGHT LIGHT (ON 24/7)
NEC	NATIONAL ELECTRICAL CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
N	NEUTRAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OS	OCCUPANCY SENSOR
Ø	PHASE
PB	PULL BOX
PVC	POLYVINYL CHLORIDE
PIDS	PASSENGER INFORMATION DISPLAY SYSTEM
(R)	EXISTING EQUIPMENT SHALL BE REMOVED (NOTE 3)
(RE)	RELOCATED EXISTING EQUIPMENT (NOTE 3)
RGS	RIGID GALVANIZED STEEL
SCR	SHORT CIRCUIT RATING
SW	SWITCH
SPST	SINGLE POLE SINGLE THROW
TBD	TO BE DETERMINED
TYP	TYPICAL
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
U/G	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
U.O.N	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
VA	VOLTAGE
W	VOLT–AMPERE
WP	WIRE
	WEATHER PROOF

GENERAL NOTES

ELECTRICAL

A. ALL WORK SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE, IECC 2015, AND ALL LOCAL CODES AND STANDARDS.

B. ALL WORK IS NEW UNLESS OTHERWISE NOTED. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL RECEPTACLES AND TELEPHONE/DATA OUTLETS, ETC., SHALL BE DETERMINED FROM THE ARCHITECT'S DRAWINGS, U.O.N.

C. TRACE OUT AND DOCUMENT EXISTING CIRCUITS OF SCOPE OF WORK AREAS. ALL ELECTRIC POWER MUST BE DISCONNECTED AND MAKE SAFE BEFORE STARTING DEMOLITION.

D. COORDINATE WORK WITH OTHER TRADES AND CONFER WITH OTHER TRADES WHOSE WORK MIGHT AFFECT THIS INSTALLATION. VERIFY ALL LOCATIONS FOR DEVICES AND EQUIPMENT PRIOR TO ROUGH–IN INSTALLATION.

E. PANEL DIRECTORIES SHALL BE UPDATED TO CONFORM TO WORK COMPLETED PER NEC ARTICLE 408.4. TEST AND TRACE ALL CIRCUITS IN CONTRACT AREA.

F. ELECTRIC PANEL COVERS ARE NOT TO BE LEFT OFF THE PANELS AT ANY TIME UNLESS MEN ARE WORKING ON SAME. COVERS SHALL BE REPLACED EACH NIGHT BEFORE LEAVING JOB SITE.

G. ALL NEW MATERIALS REQUIRED SHALL CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED FOR THE PARTICULAR TYPE OF MATERIAL IN QUESTION, U.O.N.

H. VISIT AND EXAMINE CAREFULLY THE EXISTING AREAS AFFECTED BY THIS WORK TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND WITH DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK. PERFORM THIS, PRIOR TO SUBMITTING THE PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

I. ALL EQUIPMENT AND DEVICES MOUNTING HEIGHT SHALL COMPLY WITH ADA REQUIREMENTS. REFER TO ARCHITECTURAL DOCUMENTS FOR DETAILS.

J. MAINTAIN CONTINUITY OF SERVICE ON ALL CIRCUITS WHICH ALSO SERVE AREAS NOT AFFECTED BY THESE CHANGES. WHENEVER IT IS REQUIRED THAT AN EXISTING CIRCUIT BE REVISED, DISCONNECTED OR REMOVED, IT SHALL BE UNDERSTOOD THAT THE CIRCUIT SHALL BE RECONNECTED AND SERVICE RE–ESTABLISHED IN THE REMAINING PORTION OF THE CIRCUIT WHICH IS OUTSIDE OF THE AREA AFFECTED BY THIS ALTERATION.

K. CUT BACK TO THE FLOOR, WALL OR CEILING, REMOVE WIRING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BYTHIS ALTERATION. EXPOSED CONDUITS, WIREWAYS, OUTLET BOXES, PULL BOXES, HANGERS, ETC. MADE OBSOLETE BY THE ALTERATION WORK SHALL BE REMOVED, U.O.N.

L. PROVIDE GROUND WIRES IN ALL BRANCH CIRCUITS AND FEEDERS.

M. ALL EQUIPMENT SHALL HAVE ITS MANUFACTURER'S NAMEPLATE SECURELY ATTACHED GIVING DESIGN AND OPERATING CHARACTERISTICS. NAMEPLATES SHALL NOT BE COVERED OR OBSTRUCTED FROM VIEW.

N. EACH TRADE SHALL PROVIDE AN APPROVED FIRE STOP SEALANT, TOTALLY ENCLOSING ALL PENETRATIONS THROUGH CEILINGS, WALLS, ROOFS AND FLOORS.

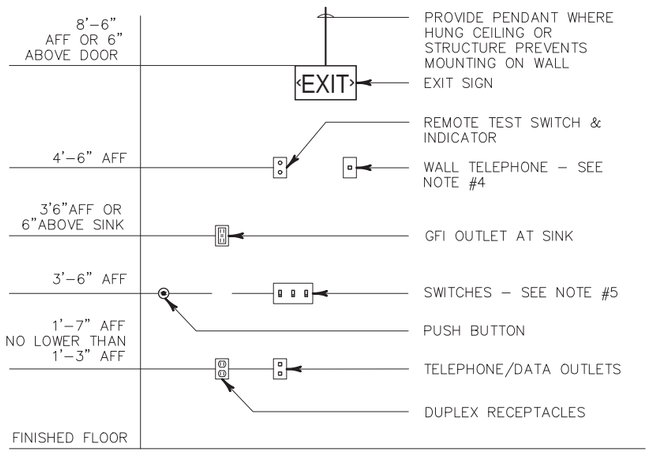
O. **ALL EQUIPMENT AND DEVICES FURNISHED FOR PROJECT SHALL COMPLY WITH BUY AMERICA ACT.**

MOUNTING HEIGHT NOTES:

1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. MOUNTING HEIGHTS TO BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS. LIGHT FIXTURE MOUNTING HEIGHTS ARE GOVERNED BY THE LIGHTING FIXTURE SCHEDULE.
4. TELEPHONE OUTLET MOUNTING HEIGHTS:
   FORWARD REACH:
   MAXIMUM HIGH FORWARD REACH SHALL BE 48" AFF. MINIMUM LOW REACH SHALL BE 15" AFF. FORWARD REACH OVER OBSTRUCTION: WHEN LENGTH OF OBSTRUCTION IS LESS THAN 20", FORWARD REACH SHALL BE 48" AFF MAXIMUM. WHEN LENGTH OF OBSTRUCTION IS BETWEEN 20" AND 25", FORWARD REACH SHALL BE 44" MAXIMUM.
5. SIDE REACH:
   MAXIMUM HIGH SIDE REACH SHALL BE 54" AFF. LOW SIDE SIDE REACH SHALL BE NO LESS THAN 9" AFF.

SIDE REACH OVER OBSTRUCTION:
WHEN THE OBSTRUCTION IS 24" WIDE, THE SIDE REACH SHALL BE A MAXIMUM OF 46" AFF WITH A MINIMUM OF 34" AFF. SWITCHES SHALL BE NO HIGHER THAN 42" AFF AND NO LOWER THEN 36" AFF.

A.D.A. MOUNTING HEIGHTS DETAIL



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

SHEET E–001

PRE_246

SCALE = NONE

8

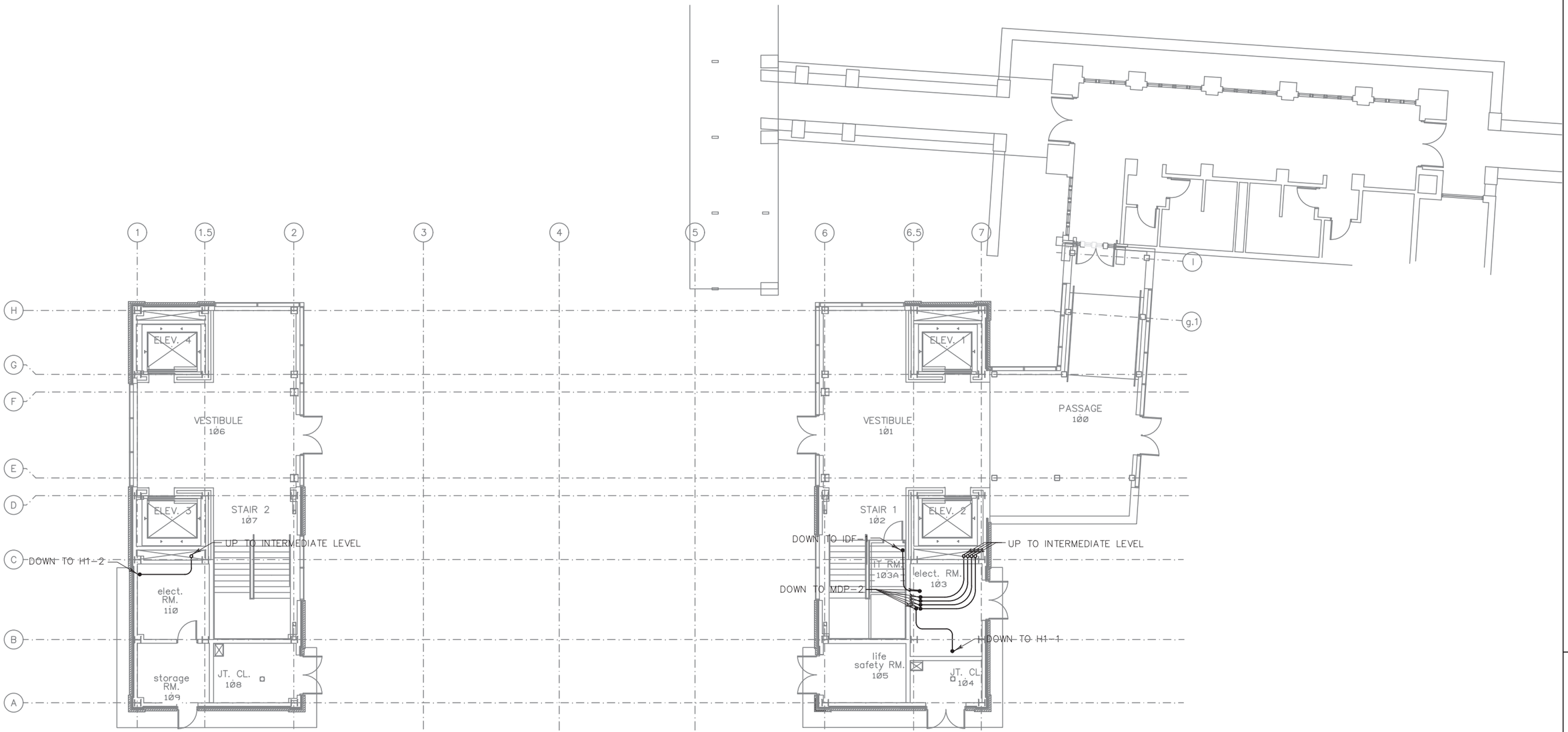
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GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND SIZE PULL BOXES AS REQUIRED, PER NEC.

STATE PROJECT NUMBER
1000–57–05



1 / E–100 ELECTRICAL FIRST FLOOR PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL FIRST FLOOR CONDUIT ROUTING PLAN

SHEET E–010

PRE_247

SCALE = AS NOTED

8

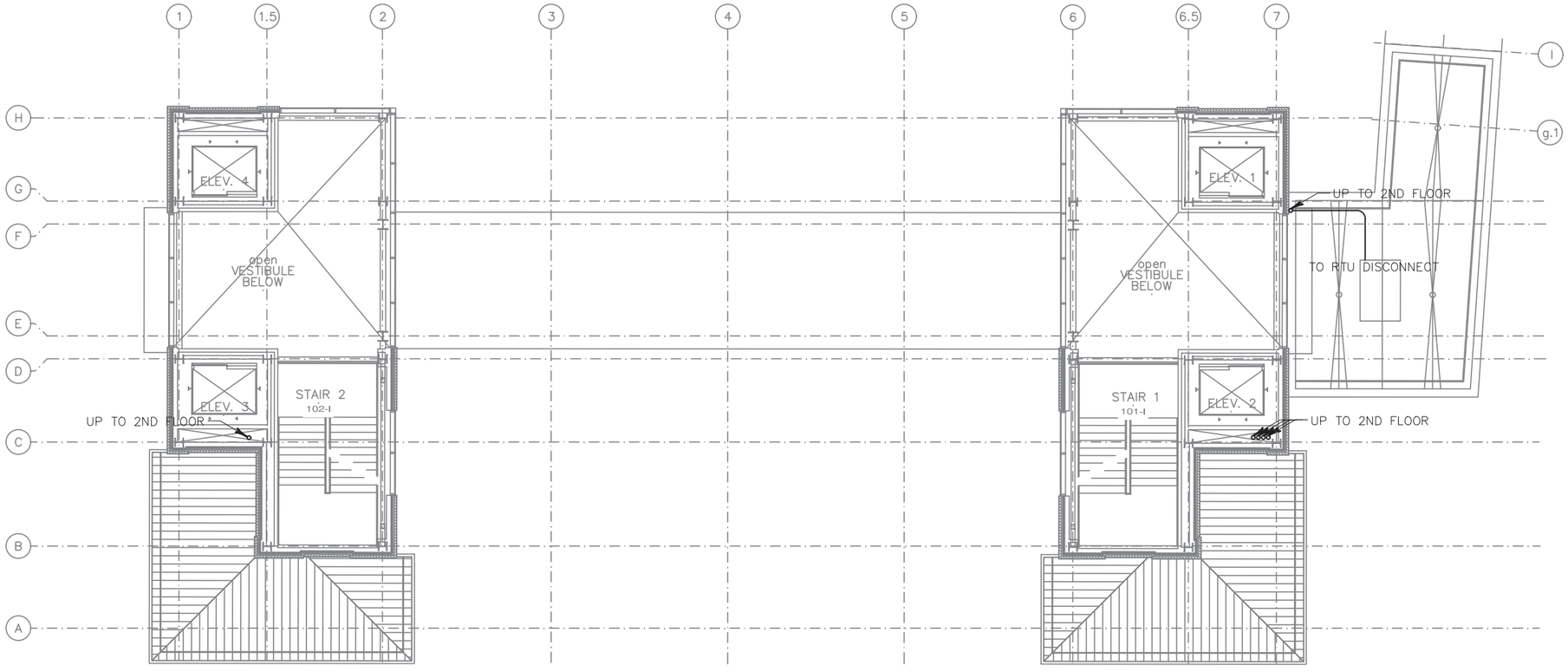
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STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND SIZE PULL BOXES AS REQUIRED, PER NEC.



1 / E-101 ELECTRICAL INTERMEDIATE LEVEL PLAN

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

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL INTERMEDIATE LEVEL CONDUIT ROUTING PLAN

SHEET E-011

PRE_248

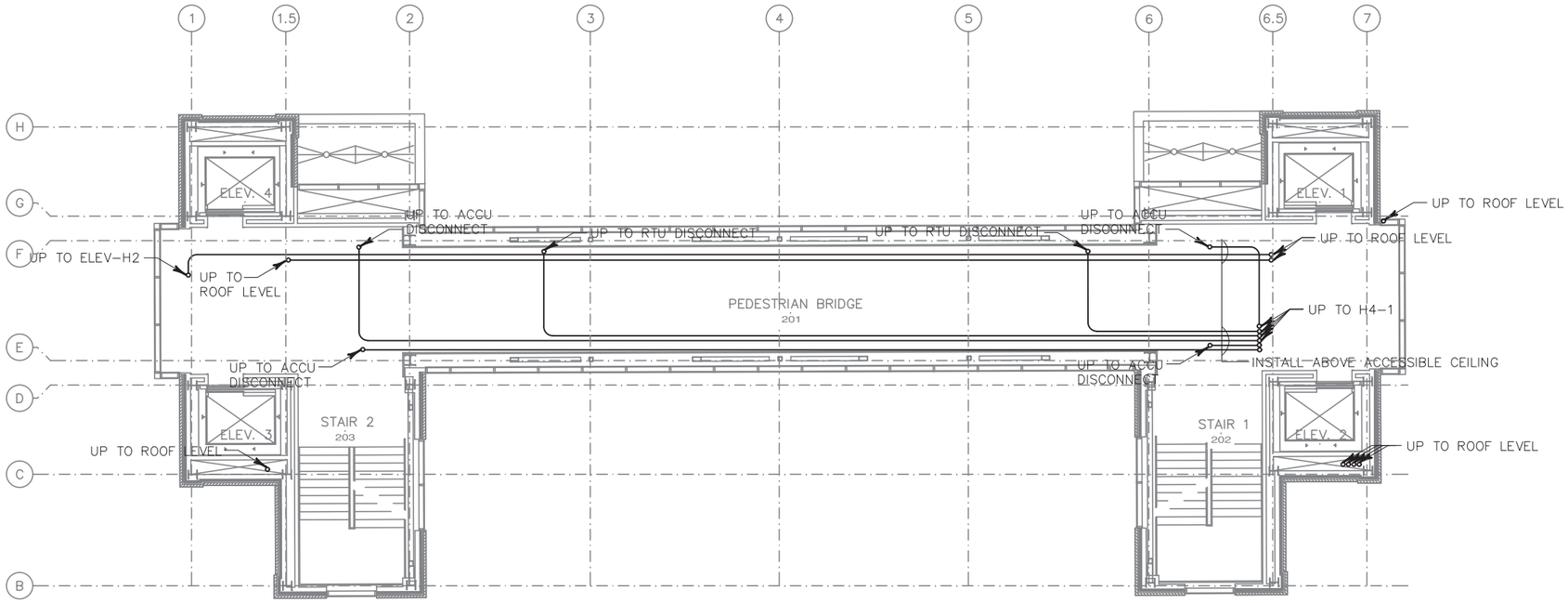
SCALE = AS NOTED

STATE PROJECT NUMBER
1000–57–05

GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND SIZE PULL BOXES AS REQUIRED, PER NEC.



1 / E–102 ELECTRICAL SECOND FLOOR PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL SECOND FLOOR CONDUIT ROUTING PLAN

SHEET E–012

PRE_249

SCALE = AS NOTED

8

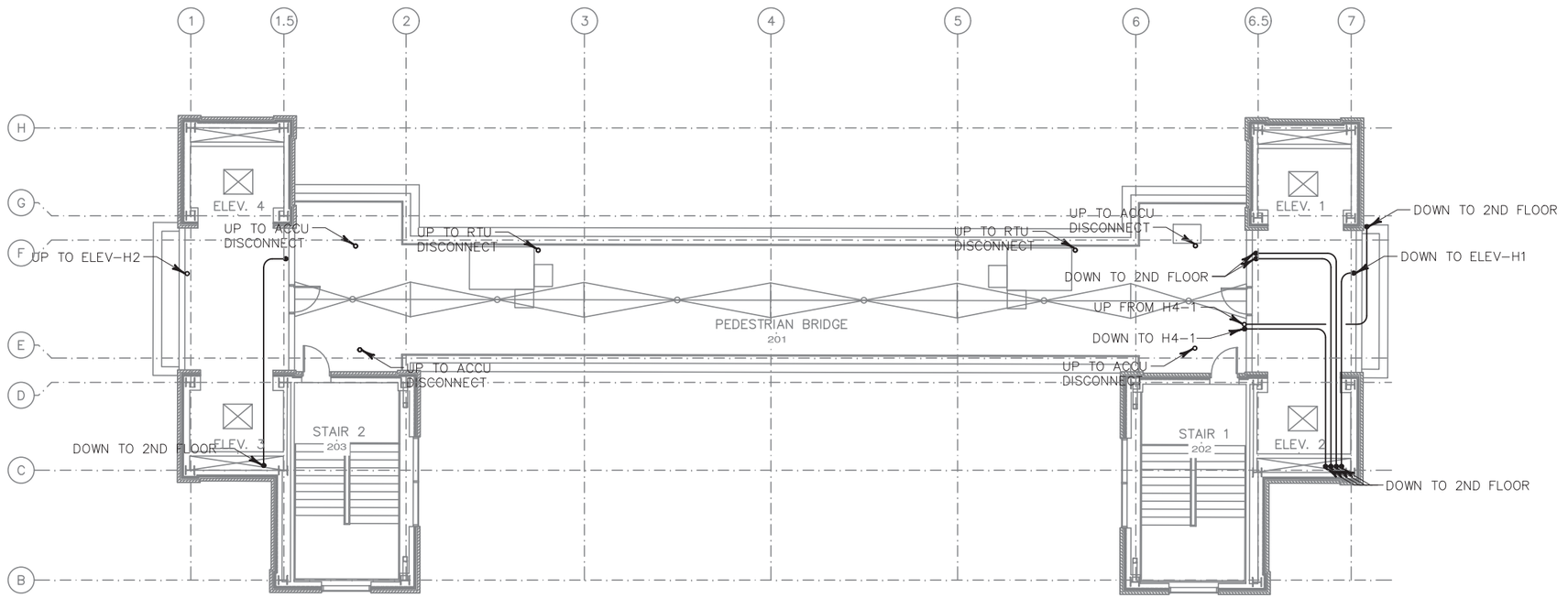
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STATE PROJECT NUMBER
1000–57–05

GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND SIZE PULL BOXES AS REQUIRED, PER NEC.



1 / E–103 ELECTRICAL ROOF PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL ROOF CONDUIT ROUTING PLAN

SHEET E–013

PRE_250

SCALE = AS NOTED

STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – POWER PLAN

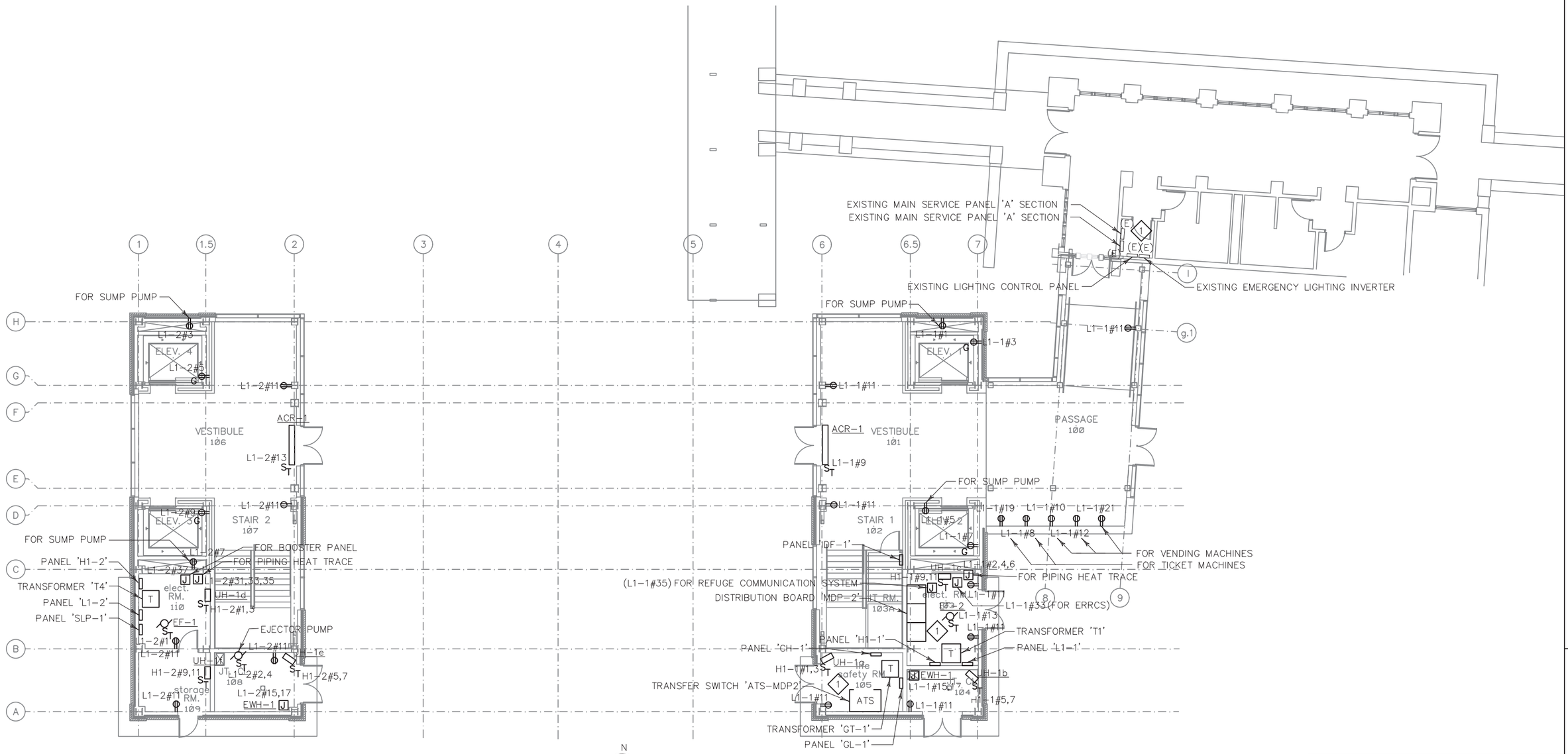
1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 REFER TO IT/SECURITY/AV DRAWINGS FOR ADDITIONAL SCOPE OF WORK. COORDINATE WORK WITH OTHER TRADES/CONTRACTORS.

3 REFER TO RISER DIAGRAM ON DRAWING E-600 FOR TRANSFORMER SIZES.

KEYED NOTES – POWER PLAN

NO.	DESCRIPTION
1	PROVIDE SIGNAGE INDICATING MULTIPLE SERVICES AS REQUIRED AND IN COMPLIANCE WITH NEC 230.2.



1 E-100 ELECTRICAL FIRST FLOOR PLAN
SCALE: 1/16"=1'-0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PLANS CK'D.
PH	FC

ELECTRICAL FIRST FLOOR POWER PLAN

SHEET E-100

PRE_251

SCALE = AS NOTED

GENERAL NOTES – POWER PLAN

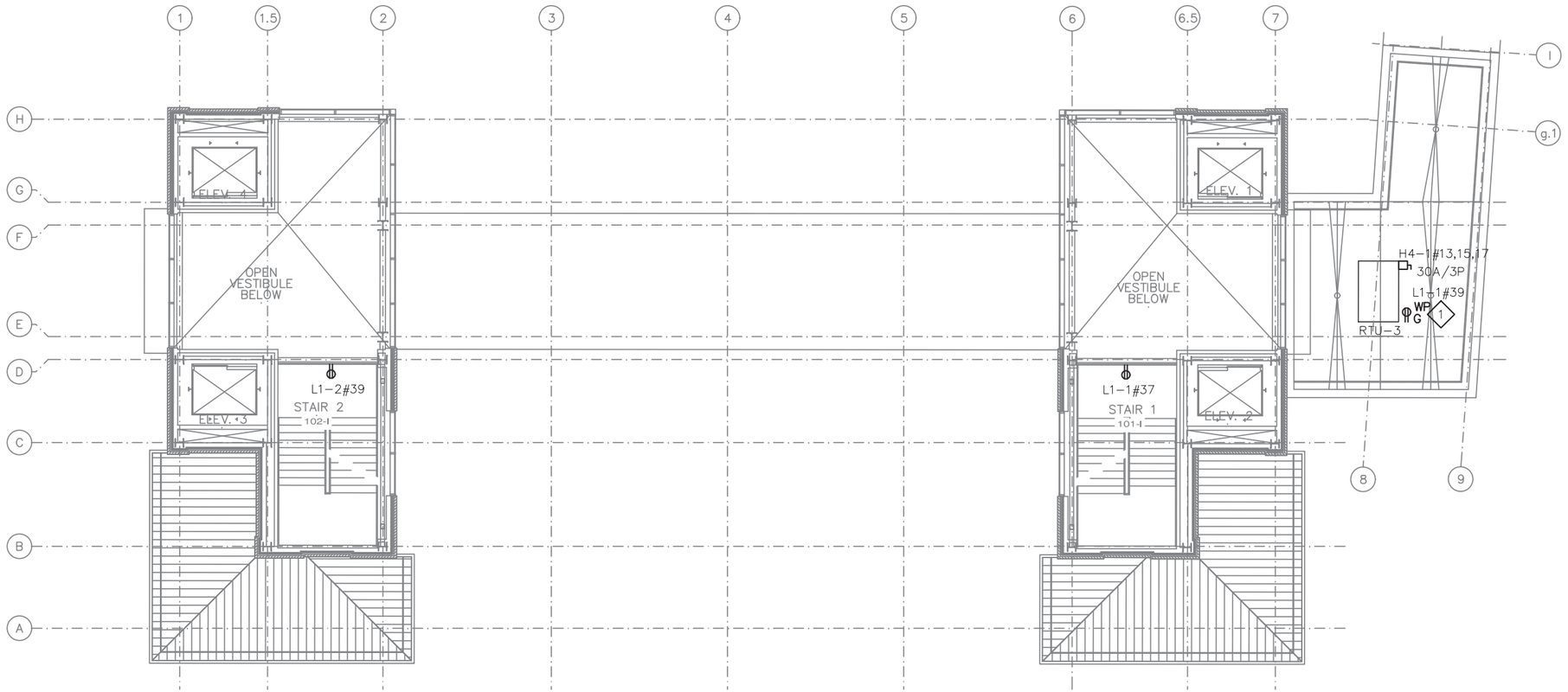
1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 REFER TO IT/SECURITY/AV DRAWINGS FOR ADDITIONAL SCOPE OF WORK. COORDINATE WORK WITH OTHER TRADES/CONTRACTORS.

KEYED NOTES – POWER PLAN

NO.	DESCRIPTION
1	RECEPTACLE SHALL BE INSTALLED WITHIN 25' OF RTU.

STATE PROJECT NUMBER
1000–57–05



1 / E–101 ELECTRICAL INTERMEDIATE LEVEL PLAN

SCALE: 1/16"=1'–0"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL INTERMEDIATE LEVEL POWER PLAN

SHEET E–101

PRE_252

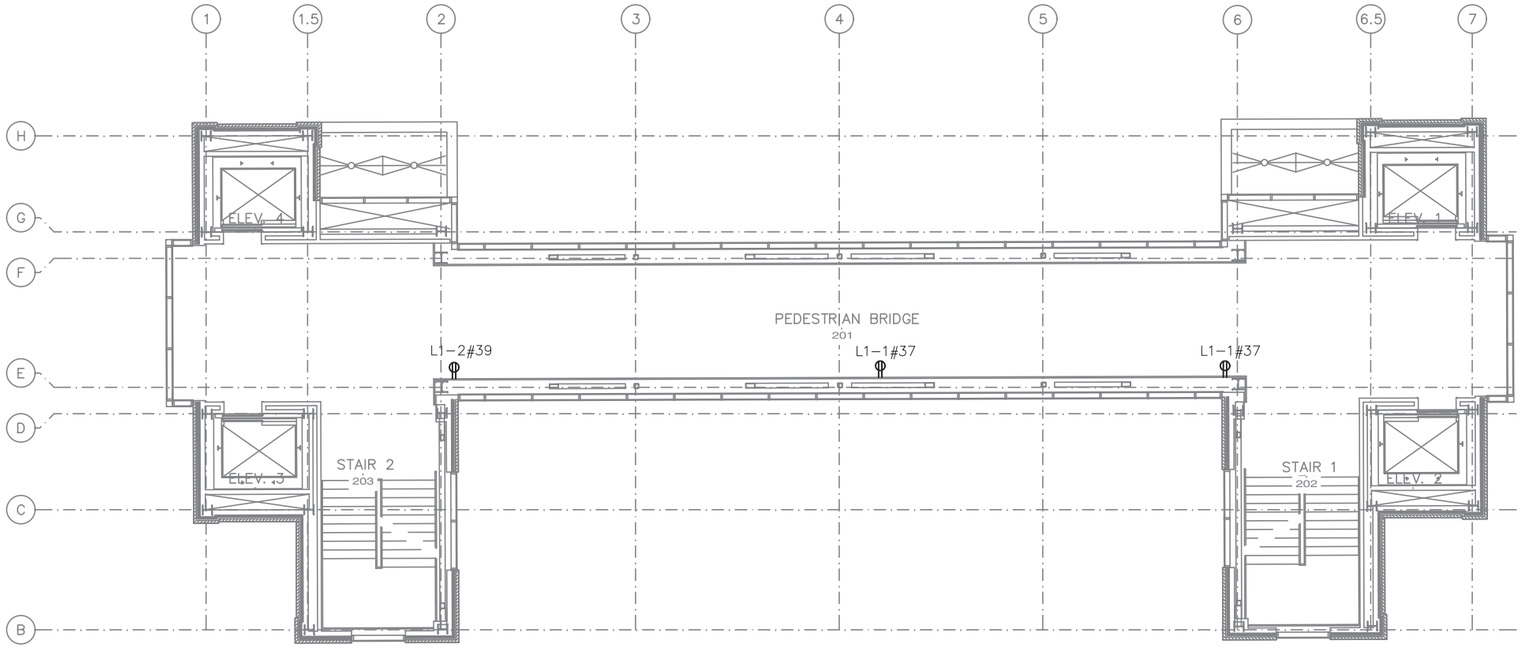
SCALE = AS NOTED

STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 REFER TO IT/SECURITY/AV DRAWINGS FOR ADDITIONAL SCOPE OF WORK. COORDINATE WORK WITH OTHER TRADES/CONTRACTORS.



1 / E-102 ELECTRICAL SECOND FLOOR POWER PLAN

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

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL SECOND FLOOR POWER PLAN

SHEET E-102

PRE_253

SCALE = AS NOTED

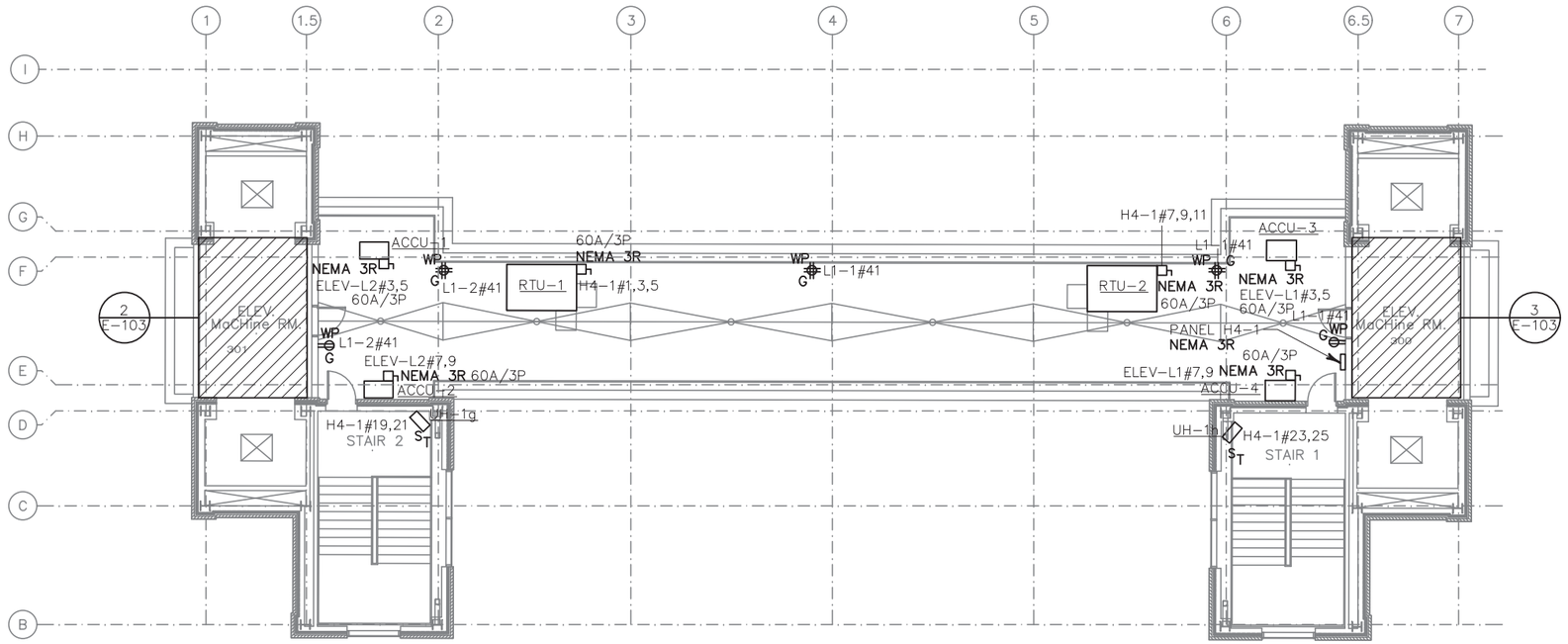
STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 REFER TO IT/SECURITY/AV DRAWINGS FOR ADDITIONAL SCOPE OF WORK. COORDINATE WORK WITH OTHER TRADES/CONTRACTORS.

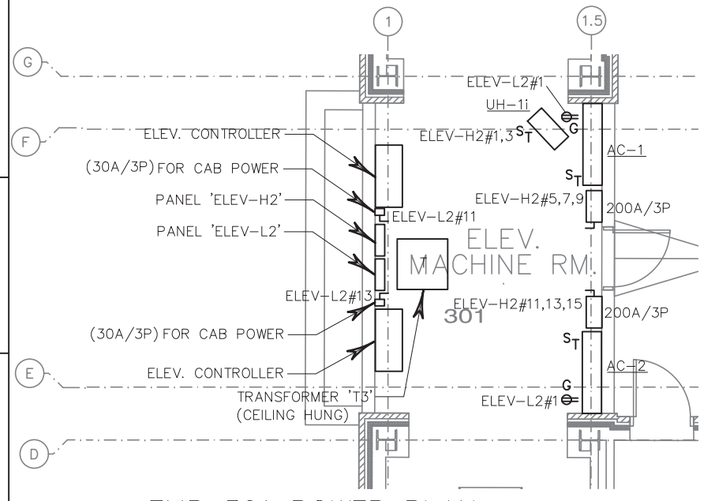
3 REFER TO RISER DIAGRAM ON DRAWING E-600 FOR TRANSFORMER SIZES.



1 E-103 ELECTRICAL ROOF PLAN
SCALE: 1/16"=1'-0"

0 8 16 32 FT

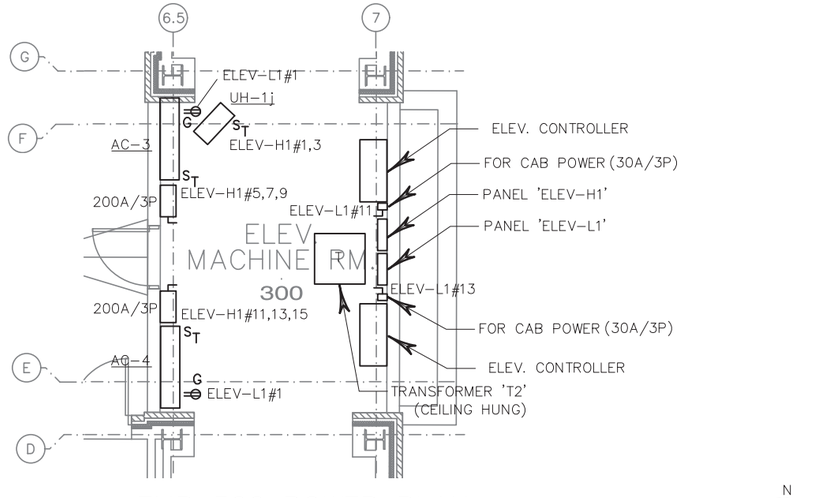
N



2 E-103 EMR 301 POWER PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N



3 E-103 EMR 300 POWER PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL ROOF POWER PLAN

SHEET E-103

PRE_254

SCALE = AS NOTED

8

8

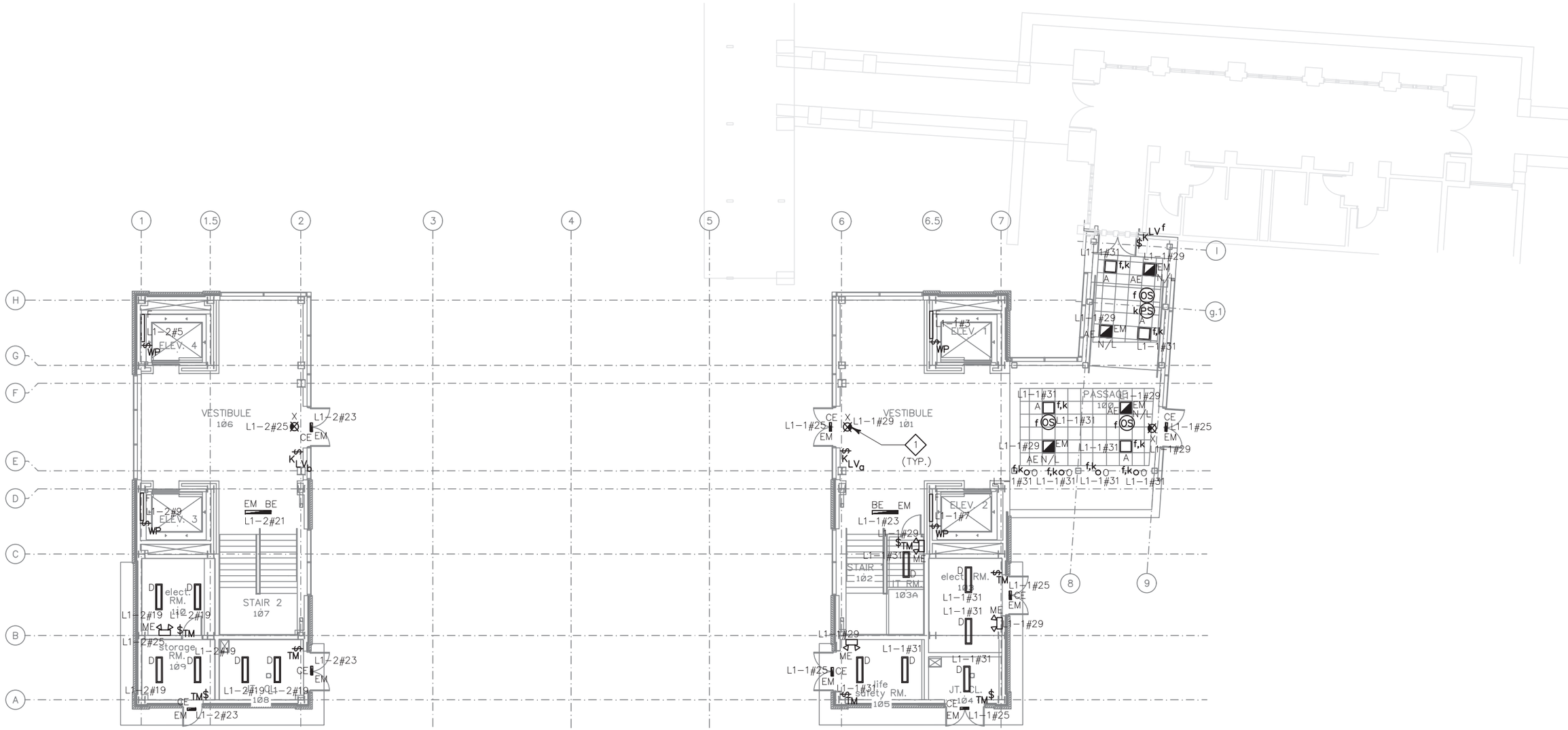
GENERAL NOTES – LIGHTING PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – LIGHTING PLAN

NO.	DESCRIPTION
1	EXIT SIGNS SHALL BE UNSWITCHED (ON 24/7).

STATE PROJECT NUMBER
1000–57–05



1 E–200 ELECTRICAL FIRST FLOOR LIGHTING PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL FIRST FLOOR LIGHTING PLAN

SHEET E–200

PRE_255

SCALE = AS NOTED

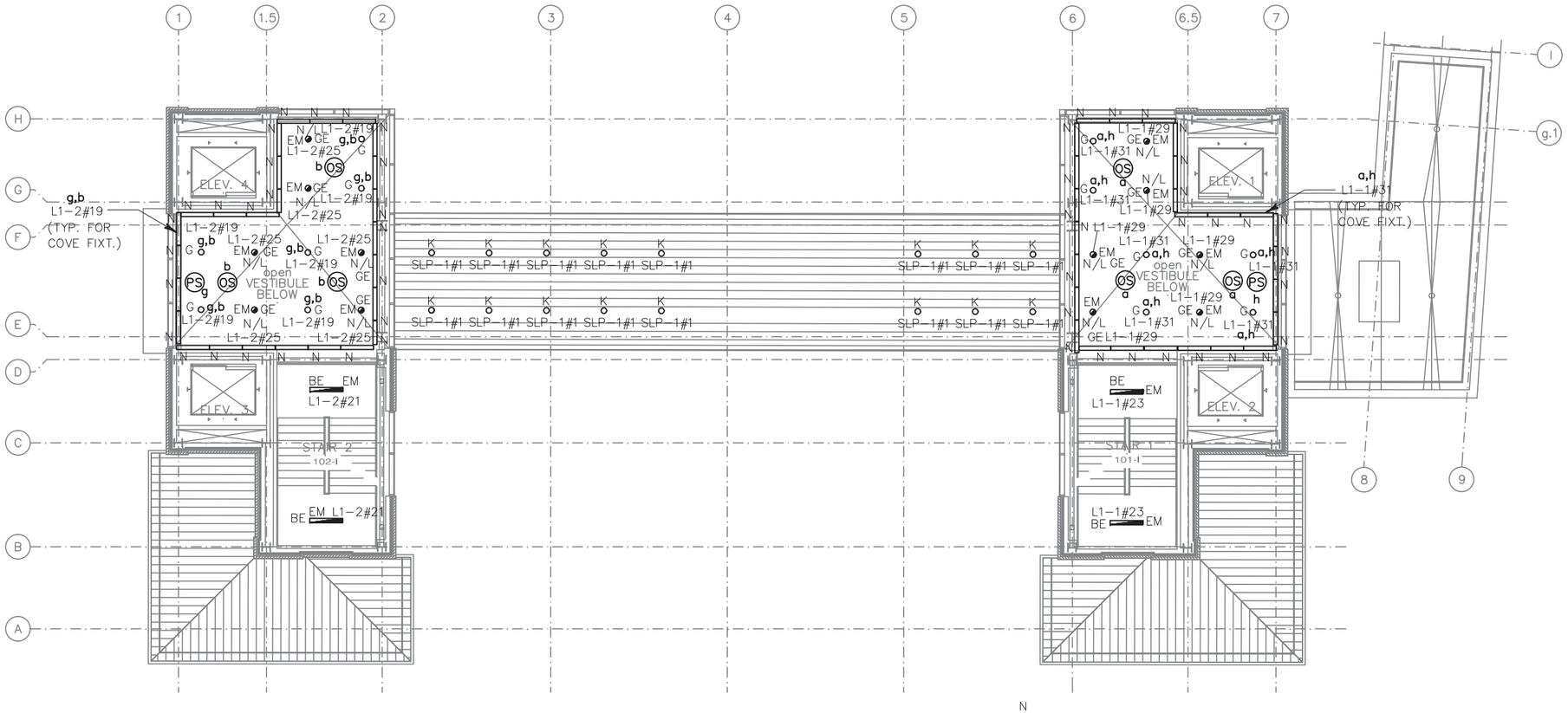
8

8

GENERAL NOTES – LIGHTING PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

STATE PROJECT NUMBER
1000–57–05



1 / E–201 ELECTRICAL INTERMEDIATE LEVEL LIGHTING PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL INTERMEDIATE LEVEL LIGHTING PLAN

SHEET E–201

PRE_256

SCALE = AS NOTED

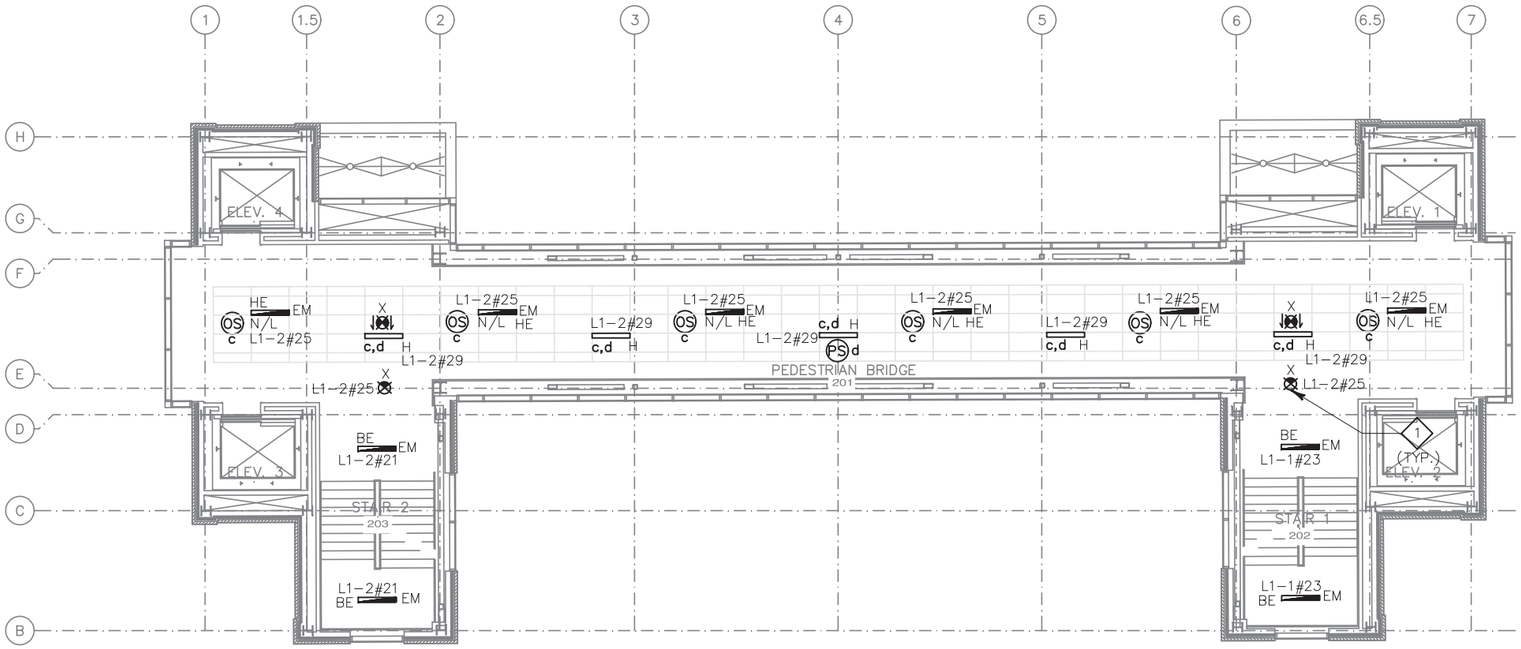
GENERAL NOTES – LIGHTING PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – LIGHTING PLAN

NO.	DESCRIPTION
1	EXIT SIGNS SHALL BE UNSWITCHED (ON 24/7).

STATE PROJECT NUMBER
1000–57–05



1 / E–202 ELECTRICAL SECOND FLOOR LIGHTING PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL SECOND FLOOR LIGHTING PLAN

SHEET E–202

PRE_257

SCALE = AS NOTED

8

8

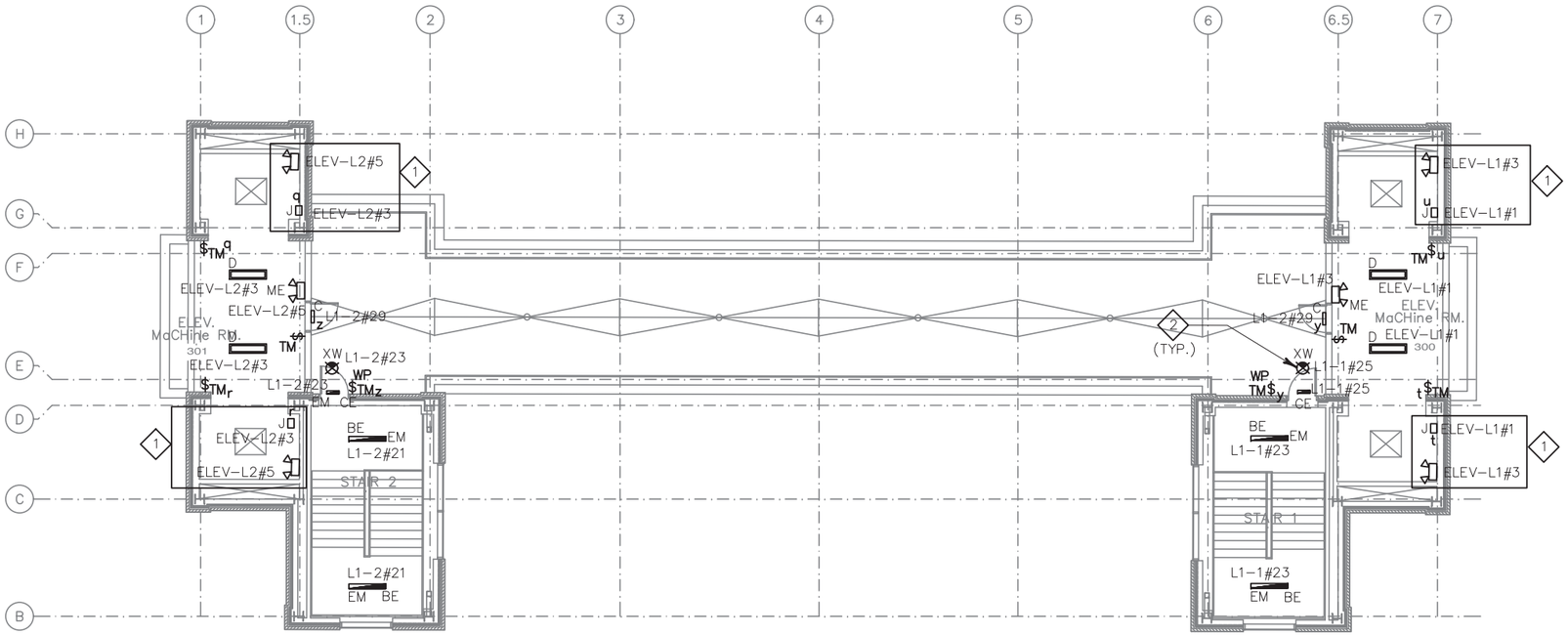
GENERAL NOTES – LIGHTING PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – LIGHTING PLAN

NO.	DESCRIPTION
1	FIXTURES LOCATED IN MACHINE ROOM ON LEVEL ABOVE.
2	EXIT SIGNS SHALL BE UNSWITCHED (ON 24/7).

STATE PROJECT NUMBER
1000–57–05



1 E–203 ELECTRICAL ROOF LIGHTING PLAN
SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL ROOF LIGHTING PLAN

SHEET E–203

PRE_258

SCALE = AS NOTED

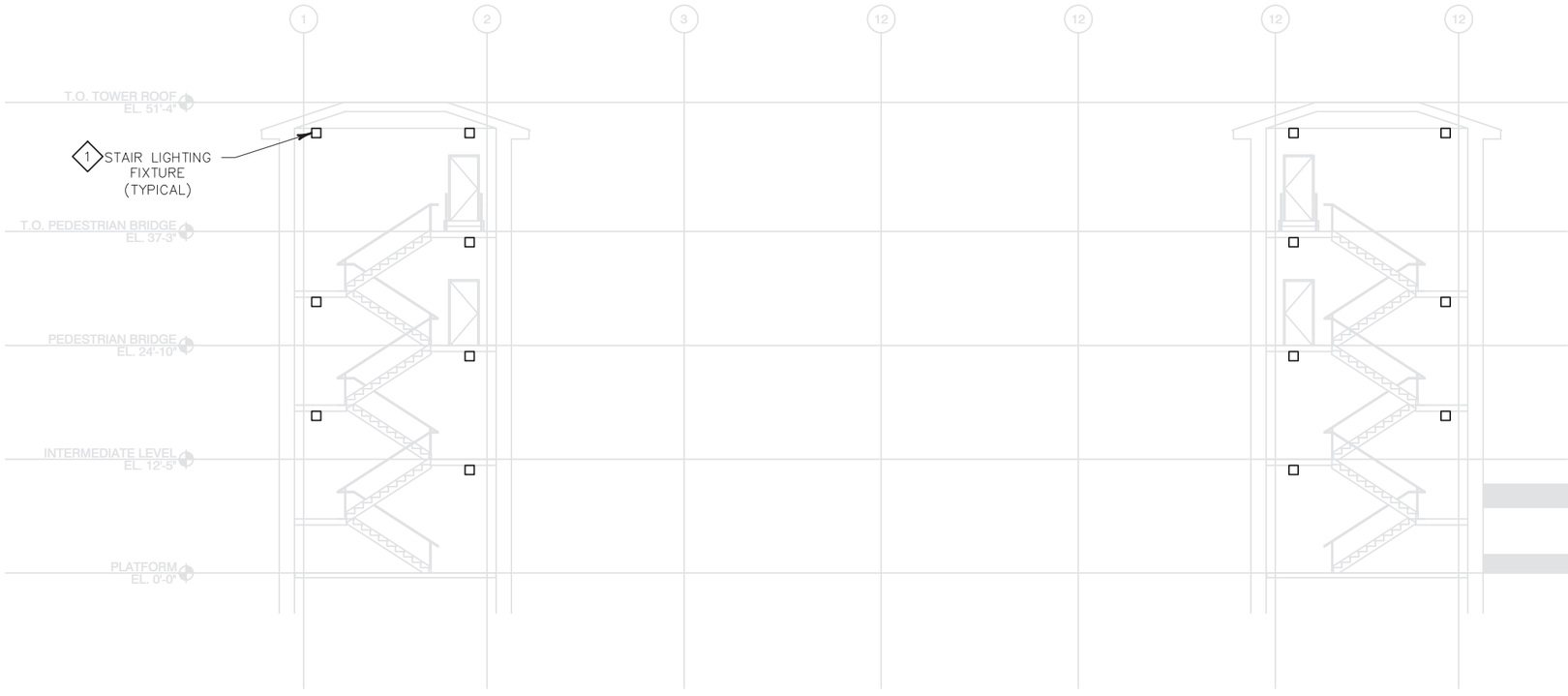
GENERAL NOTES – POWER PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – LIGHTING PLAN

NO.	DESCRIPTION
1	LIGHTING FIXTURES SHALL BE SURFACE MOUNTED TO UNDERSIDE OF DECK.

STATE PROJECT NUMBER
1000–57–05



1 / E–204 ELECTRICAL STAIRS LIGHTING ELEVATION PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL STAIRS LIGHTING ELEVATION PLAN

SHEET E–204

PRE_259

SCALE = AS NOTED

8

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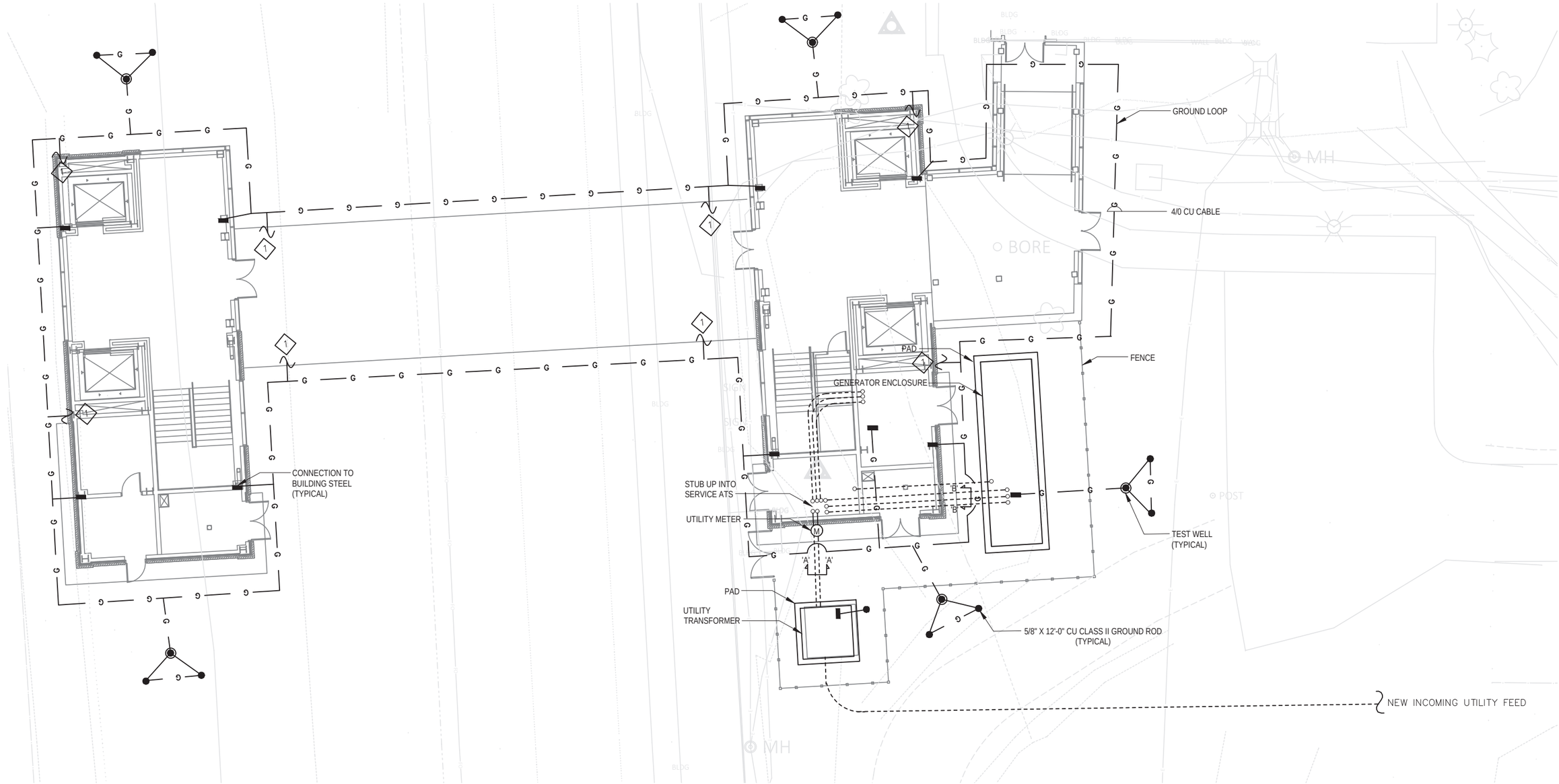
GENERAL NOTES – SITE PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – SITE PLAN

NO.	DESCRIPTION
1	CABLE DROP FROM ROOF LIGHTNING PROTECTION SYSTEM. REFER TO DRAWING E–801 FOR FURTHER INFORMATION.

STATE PROJECT NUMBER
1000–57–05



1 / E–300 ELECTRICAL SITE GROUNDING AND POWER PLAN

SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL SITE GROUNDING AND POWER PLAN

SHEET E–300

PRE_260

SCALE = AS NOTED

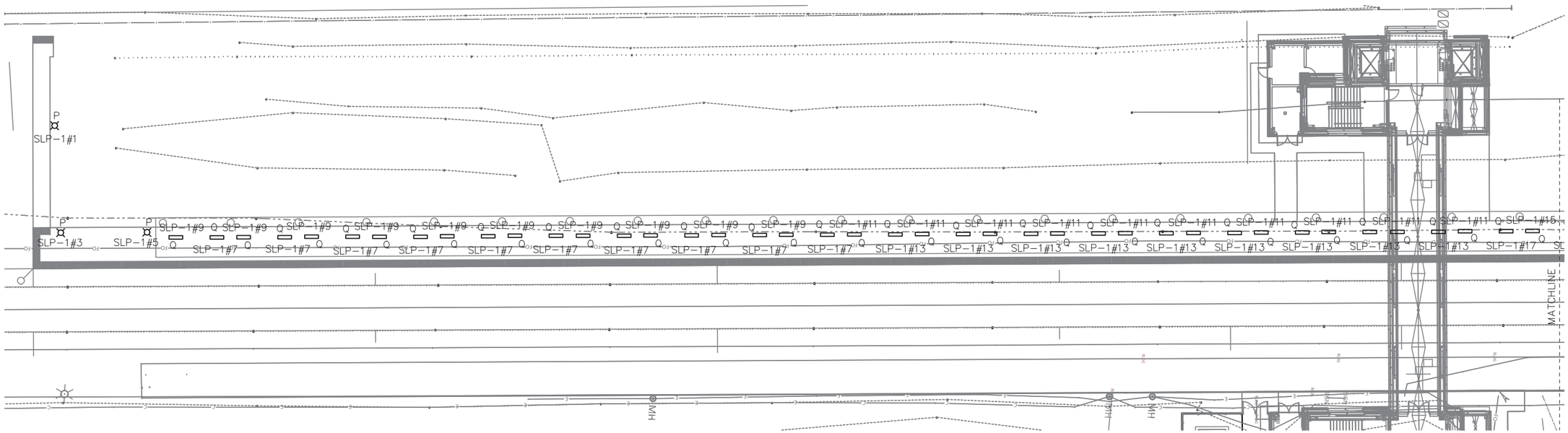
8

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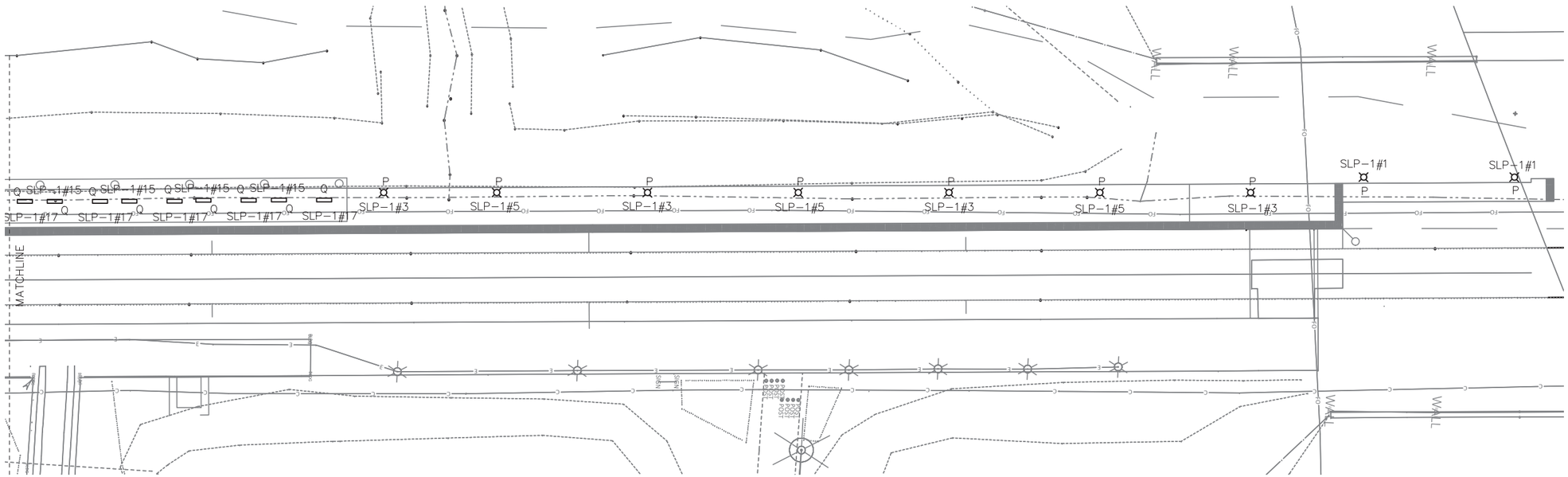
STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – SITE PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.



1 E-301 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1/32"=1'-0"



2 E-301 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1/32"=1'-0"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL SITE LIGHTING PLAN

SHEET E-301

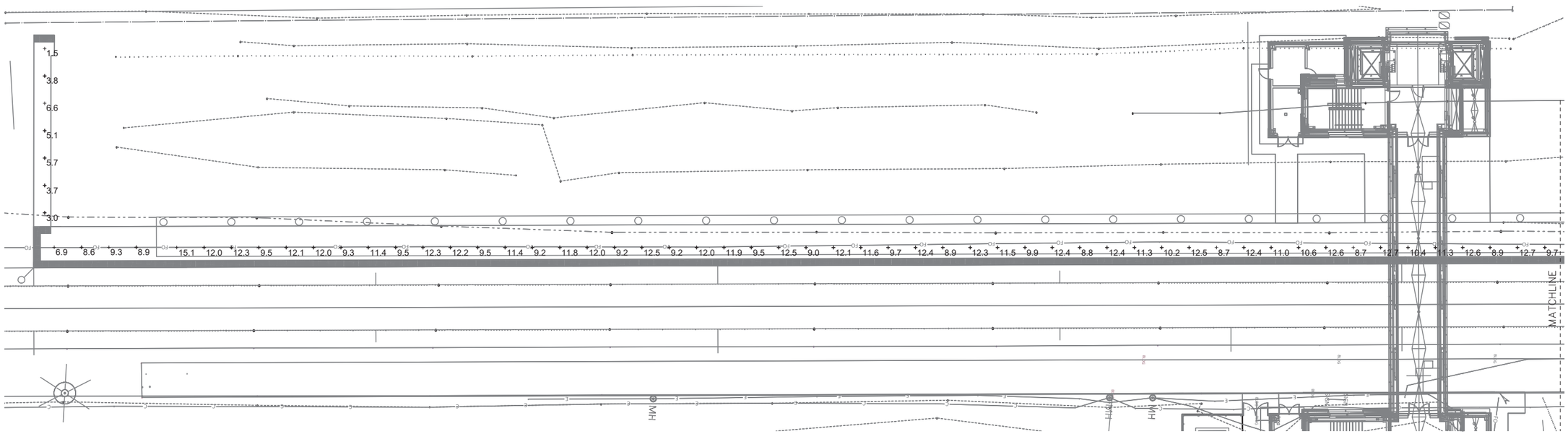
PRE_261

SCALE = AS NOTED

GENERAL NOTES – PHOTOMETRICS PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

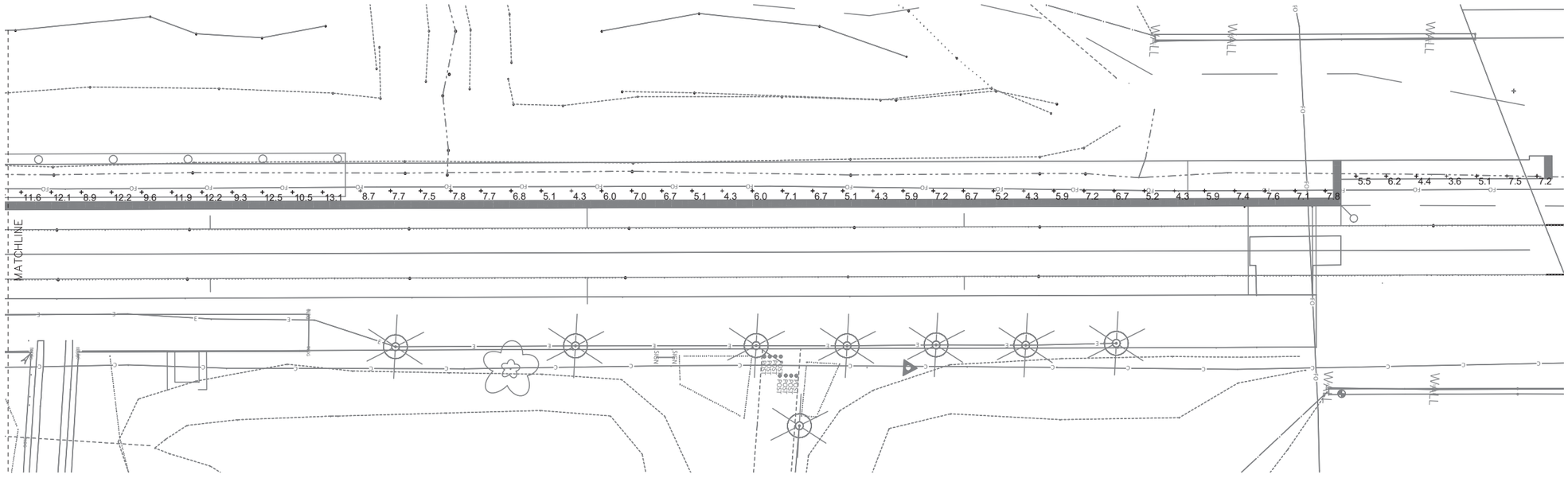
STATE PROJECT NUMBER
1000-57-05



1 / E-401 ELECTRICAL PHOTOMETRICS PLAN
SCALE: 1/32"=1'-0"

0 16 32 64 FT

N



2 / E-401 ELECTRICAL PHOTOMETRICS PLAN
SCALE: 1/32"=1'-0"

0 16 32 64 FT

N

PHOTOMETRIC STATISTICS*					
DESCRIPTION	AVG	MAX	MIN	MAX /MIN	AVG /MIN
PLATFORM CANOPY	9.4 fc	17.0 fc	3.4 fc	5.0:1	2.8:1
PLATFORM OPEN WEST	7.6 fc	11.0 fc	1.7 fc	6.5:1	4.5:1
PLATFORM OPEN EAST	5.5 fc	9.9 fc	1.1 fc	9.0:1	5.0:1
WALKWAY WEST	4.3 fc	7.4 fc	0.8 fc	9.3:1	5.4:1
WALKWAY EAST	5.4 fc	8.4 fc	2.7 fc	3.1:1	2.0:1

*TABLE CALCS DONE AT 2' X 2' SPACING. PLAN CALCS DONE AT 8' X 8' FOR CLARITY PURPOSES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL PHOTOMETRICS PLAN

SHEET E-401

PRE_262

SCALE = AS NOTED

STATE PROJECT NUMBER

1000-57-05

1 SCR: 65K AIC — MDP-2 — 277/460 V, 3 PH., 4 W., 1200 A BUS, 1200 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			H4-1		150A-3	1	2	400A-3		ELEV-H2			
						3	4						
			H1-1		100A-3	5	6	100A-3		SPARE			
						7	8						
						9	10						
			H1-2		100A-3	11	12			BUSSED SPACE			
						13	14			BUSSED SPACE			
						15	16			BUSSED SPACE			
			GH-1		50A-3	17	18			BUSSED SPACE			
						19	20			BUSSED SPACE			
						21	22			BUSSED SPACE			
			ELEV-H1		400A-3	23	24			BUSSED SPACE			
						25	26			BUSSED SPACE			
						27	28			BUSSED SPACE			
						29	30			BUSSED SPACE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

1 SCR: 22K AIC — ELEV-L1 — 120/208 V, 3 PH., 4 W., 100 A BUS, 100 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			MACHINE RM. RECEPT.		20A-1	1	2			BUSSED SPACE			
			ACCU-3/AC-3		40A-2	3	4			BUSSED SPACE			
						5	6			BUSSED SPACE			
			ACCU-4/AC-4		40A-2	7	8			BUSSED SPACE			
						9	10			BUSSED SPACE			
			N. ELEV. CAB POW		20A-1	11	12			BUSSED SPACE			
			S. ELEV. CAB POW		20A-1	13	14			BUSSED SPACE			
			SPARE		20A-1	15	16			BUSSED SPACE			
			SPARE		20A-1	17	18			BUSSED SPACE			
			SPARE		20A-1	19	20			BUSSED SPACE			
			SPARE		20A-1	21	22			BUSSED SPACE			
			SPARE		20A-1	23	24			BUSSED SPACE			
			SPARE		20A-1	25	26			BUSSED SPACE			
			SPARE		20A-1	27	28			BUSSED SPACE			
			SPARE		20A-1	29	30			BUSSED SPACE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

1 SCR: 10K AIC — ELEV-L2 — 120/208 V, 3 PH., 4 W., 100 A BUS, 100 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			MACHINE RM. RECEPT.		20A-1	1	2			BUSSED SPACE			
			ACCU-1/AC-1		40A-2	3	4			BUSSED SPACE			
						5	6			BUSSED SPACE			
			ACCU-2/AC-2		40A-2	7	8			BUSSED SPACE			
						9	10			BUSSED SPACE			
			N. ELEV. CAB POW.		20A-1	11	12			BUSSED SPACE			
			S. ELEV. CAB POW.		20A-1	13	14			BUSSED SPACE			
			SPARE		20A-1	15	16			BUSSED SPACE			
			SPARE		20A-1	17	18			BUSSED SPACE			
			SPARE		20A-1	19	20			BUSSED SPACE			
			SPARE		20A-1	21	22			BUSSED SPACE			
			SPARE		20A-1	23	24			BUSSED SPACE			
			SPARE		20A-1	25	26			BUSSED SPACE			
			SPARE		20A-1	27	28			BUSSED SPACE			
			SPARE		20A-1	29	30			BUSSED SPACE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

GENERAL NOTES – PANEL SCHEDULES

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND INSTALL MINIMUM 2#12 AND 1#12 GROUND IN 3/4" CONDUIT FOR ALL 1P AND 2P 20A CIRCUITS, U.O.N.

3 PROVIDE AND INSTALL MINIMUM 3#12 AND 1#12 GROUND IN 3/4" CONDUIT FOR ALL 3P 20A CIRCUITS, U.O.N.

KEYED NOTES – PANEL SCHEDULES

NO.	DESCRIPTION
1	SHORT CIRCUIT RATING BASED ON PRELIMINARY CALCULATIONS AND ASSUMPTIONS. ACTUAL SHORT CIRCUIT RATING SHALL BE BASED ON CONTRACTOR SUBMITTED SHORT CIRCUIT STUDY, PER SPECIFICATIONS.
2	INDICATED PANEL SHALL BE A SMART PANEL (CONTROLLABLE CIRCUIT BREAKERS) WITH INTEGRAL TIMECLOCK, EXTERNAL PHOTOCELL, AND MANUAL OVERRIDE SWITCH: EATON POW-R-COMMAND OR APPROVED EQUAL.
3	CIRCUIT BREAKER SHALL BE LOCKABLE TYPE. PROVIDE 3#10 & 1#10 GND. IN ¾" C. FOR CIRCUIT.
4	GFCI TYPE CIRCUIT BREAKER FOR PUMP.

2

1 SCR: 10K AIC — SLP-1 — 120/208 V, 3 PH., 4 W., 100 A BUS, MLO

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			BRIDGE CANOPY LTG		20A-1	1	2	20A-1		SPARE			
			PLATFORM LIGHTING		20A-1	3	4	20A-1		SPARE			
			PLATFORM LIGHTING		20A-1	5	6	20A-1		SPARE			
			PLAT. CANOPY LTG		20A-1	7	8	20A-1		SPARE			
			PLAT. CANOPY LTG.		20A-1	9	10	20A-1		SPARE			
			PLAT. CANOPY LTG.		20A-1	11	12	20A-1		SPARE			
			PLAT. CANOPY LTG.		20A-1	13	14	20A-1		SPARE			
			PLAT. CANOPY LTG.		20A-1	15	16	20A-1		SPARE			
			PLAT. CANOPY LTG.		20A-1	17	18	20A-1		SPARE			
			PLAT. EGRESS LTG.		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38	20A-1		SPARE			
			SPARE		20A-1	39	40	20A-1		SPARE			
			SPARE		20A-1	41	42	20A-1		SPARE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

1 SCR: 10K AIC — IDF-1 — 120/208 V, 3 PH., 4 W., 100 A BUS, 50 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			SPARE		20A-1	1	2	20A-1		SPARE			
			SPARE		20A-1	3	4	20A-1		SPARE			
			SPARE		20A-1	5	6	20A-1		SPARE			
			SPARE		20A-1	7	8	20A-1		SPARE			
			SPARE		20A-1	9	10	20A-1		SPARE			
			SPARE		20A-1	11	12	20A-1		SPARE			
			SPARE		20A-1	13	14	20A-1		SPARE			
			SPARE		20A-1	15	16	20A-1		SPARE			
			SPARE		20A-1	17	18	20A-1		SPARE			
			SPARE		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38	20A-1		SPARE			
			SPARE		20A-1	39	40	20A-1		SPARE			
			SPARE		20A-1	41	42	20A-1		SPARE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

1 SCR: 22K AIC — L1-1 — 120/208 V, 3 PH., 4 W., 150 A BUS, 150 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			N. PIT SUMP PUMP (4)		20A-1	1	2						
			N. PIT REC. & LTG.		20A-1	3	4	30A-3		PIPING HEAT TRACE			
			S. PIT SUMP PUMP (4)		20A-1	5	6						
			S. PIT REC. & LTG.		20A-1	7	8	20A-1		TICKET MACHINE			
			ACR-1		20A-1	9	10	20A-1		VENDING MACHINE			
			1ST FL. E. RECEPT.		20A-1	11	12	20A-1		VENDING MACHINE			
			EF-2		20A-1	13	14	20A-1		SPARE			
			EWH-1		20A-2	15	16	20A-1		SPARE			
						17	18	20A-1		SPARE			
			TICKET MACHINE		20A-1	19	20	20A-1		SPARE			
			VENDING MACHINE		20A-1	21	22	20A-1		SPARE			
			STAIR LIGHTING		20A-1	23	24	20A-1		SPARE			
			EXTERIOR EMG. LTG.		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			INTERIOR EMG. LTG		20A-1	29	30	20A-1		SPARE			
			NORMAL LIGHTING		20A-1	31	32	20A-1		SPARE			
			ERRCS PANEL (3)		20A-1	33	34	20A-1		SPARE			
			REFUGE COMM. SYS. (3)		20A-1	35	36	20A-1		SPARE			
			CONV. RECEPTACLES		20A-1	37	38						
			INT. ROOF RECEPT.		20A-1	39	40	50A-3		IDF-1			
			ROOF RECEPTACLES		20A-1	41	42						
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

SHEET E-500

ELECTRICAL SCHEDULES

PRE_263

SCALE = NONE

8

8

1 — SCR: 10K AIC — L1-2 — 120/208 V, 3 PH., 4 W., 150 A BUS, 150 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			EF-1		20A-1	1	2	20A-2		SEWAGE EJ. PUMP			
			N. PIT SUMP PUMP (2)		20A-1	3	4						
			N. PIT REC. & LTG.		20A-1	5	6	20A-1		SPARE			
			S. PIT SUMP PUMP (2)		20A-1	7	8	20A-1		SPARE			
			S. PIT REC. & LTG.		20A-1	9	10	20A-1		SPARE			
			1ST FL. W. RECEPT.		20A-1	11	12	20A-1		SPARE			
			ACR-1		20A-1	13	14	20A-1		SPARE			
			EWH-1		20A-2	15	16	20A-1		SPARE			
						17	18	20A-1		SPARE			
			NORMAL LIGHTING		20A-1	19	20	20A-1		SPARE			
			STAIR LIGHTING		20A-1	21	22	20A-1		SPARE			
			EXTERIOR EMG. LTG.		20A-1	23	24	20A-1		SPARE			
			INTERIOR EMG. LTG.		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			2ND FL. COR. & RF LTG.		20A-1	29	30	20A-1		SPARE			
						31	32	20A-1		SPARE			
			PIPING HEAT TRACE		30A-3	33	34	20A-1		SPARE			
						35	36	20A-1		SPARE			
			FA BOOSTER PNL (3)		20A-1	37	38						
			CONVENIENCE RECEPTACLES		20A-1	39	40	30A-1		SLP-1			
			ROOF RECEPTACLES		20A-1	41	42						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

1 — SCR: 42K AIC — ELEV-H1 — 277/480 V. 3 PH., 4 W., 400 A BUS, MLO

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			UH-1j		20A-2	1	2			BUSSED SPACE			
						3	4			BUSSED SPACE			
						5	6			BUSSED SPACE			
			ELEV N		200A-3	7	8			BUSSED SPACE			
						9	10			BUSSED SPACE			
						11	12			BUSSED SPACE			
			ELEV S		200A-3	13	14			BUSSED SPACE			
						15	16			BUSSED SPACE			
			BUSSED SPACE			17	18			BUSSED SPACE			
			BUSSED SPACE			19	20			BUSSED SPACE			
			BUSSED SPACE			21	22			BUSSED SPACE			
			BUSSED SPACE			23	24			BUSSED SPACE			
			BUSSED SPACE			25	26						
			BUSSED SPACE			27	28	50A-3		TRANSFORMER 'T2'			
			BUSSED SPACE			29	30						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

1 — SCR: 42K AIC — ELEV-H2 — 277/480 V. 3 PH., 4 W., 400 A BUS, MLO

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			UH-1i		20A-2	1	2			BUSSED SPACE			
						3	4			BUSSED SPACE			
						5	6			BUSSED SPACE			
			ELEV. N.		200A-3	7	8			BUSSED SPACE			
						9	10			BUSSED SPACE			
						11	12			BUSSED SPACE			
			ELEV S		200A-3	13	14			BUSSED SPACE			
						15	16			BUSSED SPACE			
			BUSSED SPACE			17	18			BUSSED SPACE			
			BUSSED SPACE			19	20			BUSSED SPACE			
			BUSSED SPACE			21	22			BUSSED SPACE			
			BUSSED SPACE			23	24			BUSSED SPACE			
			BUSSED SPACE			25	26						
			BUSSED SPACE			27	28	50A-3		TRANSFORMER 'T3'			
			BUSSED SPACE			29	30						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

1 — SCR: 42K AIC — H1-1 — 277/480 V. 3 PH., 4 W., 100 A BUS, MLO

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			UH-1a		20A-2	1	2	20A-1		SPARE			
						3	4	20A-1		SPARE			
			UH-1b		20A-2	5	6	20A-1		SPARE			
						7	8	20A-1		SPARE			
			UH-1c		20A-2	9	10	20A-1		SPARE			
						11	12	20A-1		SPARE			
			SPARE		20A-1	13	14	20A-1		SPARE			
			SPARE		20A-1	15	16	20A-1		SPARE			
			SPARE		20A-1	17	18	20A-1		SPARE			
			SPARE		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38						
			SPARE		20A-1	39	40	70A-3		TRANSFORMER 'T1'			
			SPARE		20A-1	41	42						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

1 — SCR: 42K AIC — H1-2 — 277/480 V. 3 PH., 4 W., 100 A BUS, 100 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			UH-1d		20A-2	1	2	20A-1		SPARE			
						3	4	20A-1		SPARE			
			UH-1e		20A-2	5	6	20A-1		SPARE			
						7	8	20A-1		SPARE			
			UH-1f		20A-2	9	10	20A-1		SPARE			
						11	12	20A-1		SPARE			
			SPARE		20A-1	13	14	20A-1		SPARE			
			SPARE		20A-1	15	16	20A-1		SPARE			
			SPARE		20A-1	17	18	20A-1		SPARE			
			SPARE		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38						
			SPARE		20A-1	39	40	70A-3		TRANSFORMER 'T4'			
			SPARE		20A-1	41	42						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

1 — SCR: 42K AIC — GH-1 — 277/480 V. 3 PH., 4 W., 100 A BUS, 50 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			SPARE		20A-1	1	2	20A-1		SPARE			
			SPARE		20A-1	3	4	20A-1		SPARE			
			SPARE		20A-1	5	6	20A-1		SPARE			
			SPARE		20A-1	7	8	20A-1		SPARE			
			SPARE		20A-1	9	10	20A-1		SPARE			
			SPARE		20A-1	11	12	20A-1		SPARE			
			SPARE		20A-1	13	14	20A-1		SPARE			
			SPARE		20A-1	15	16	20A-1		SPARE			
			SPARE		20A-1	17	18	20A-1		SPARE			
			SPARE		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38						
			SPARE		20A-1	39	40	25A-3		TRANSFORMER 'GT-1'			
			SPARE		20A-1	41	42						

New Connect	0	0	0
Connect Amps		0	Amps
Demand Amps		0	Amps

STATE PROJECT NUMBER

1000–57–05

GENERAL NOTES – PANEL SCHEDULES

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 PROVIDE AND INSTALL MINIMUM 2#12 AND 1#12 GROUND IN 3/4" CONDUIT FOR ALL 1P AND 2P 20A CIRCUITS, U.O.N.

KEYED NOTES – PANEL SCHEDULES

NO.	DESCRIPTION
1	SHORT CIRCUIT RATING BASED ON PRELIMINARY CALCULATIONS AND ASSUMPTIONS. ACTUAL SHORT CIRCUIT RATING SHALL BE BASED ON CONTRACTOR SUBMITTED SHORT CIRCUIT STUDY, PER SPECIFICATIONS.
2	GFCI TYPE CIRCUIT BREAKER FOR PUMP.
3	CIRCUIT BREAKER SHALL BE LOCKABLE TYPE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

SHEET E–501

ELECTRICAL SCHEDULES

PRE_264

SCALE = NONE

8

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LIGHTING FIXTURE SCHEDULE

TYPE	LAMP TYPE	WATTS	VOLTS	DESCRIPTION	CATALOG NUMBERS	COLOR TEMP. °K	MANUFACTURERS	NOTES
A	LED	22	UNV	2' X 2' RECESSED GRID LED FIXTURE WITH 0 – 10 V DIMMING	WHSPR–LCTR–2X2–80CRI–35K–2000LM –MIN10–MVOLT–SWC–ZT	3500K	MARK LIGHTING OR APPROVED EQUAL	
AE	LED	22	UNV	SAME AS TYPE 'A' EXCEPT WITH BATTERY PACK	WHSPR–LCTR–2X2–80CRI–35K–2000LM –MIN10–MVOLT–SWC–E10WLCP–ZT	3500K	MARK LIGHTING OR APPROVED EQUAL	
BE	LED	50	UNV	4" X 52" SURFACE MOUNTED LED STAIR FIXTURE WITH INTEGRAL MOTION SENSOR, BI–LEVEL DIMMER, AND BATTERY PACK	ESL–4–35HL–FAW–EDU–U–ELL14–NXOS	3500K	COLUMBIA LIGHTING OR APPROVED EQUAL	
C	LED	70	UNV	EXTERIOR LED WALL PACK FIXTURE	TRP2–24L–70	3000K	HUBBELL LIGHTING OR APPROVED EQUAL	
CE	LED	30	UNV	EXTERIOR LED WALL PACK FIXTURE WITH INTEGRAL MOTION SENSOR DIMMING AND LOW TEMP RATED BATTERY PACK	TRP2–24L–30–SCP–EH	3000K	HUBBELL LIGHTING OR APPROVED EQUAL	
D	LED	32	UNV	5" X 45" LINEAR INDUSTRIAL CHAIN HUNG LED FIXTURE WITH 0 – 10 V DIMMING	FSI–440L–835–UNV–DIM	3500K	DAY–BRITE OR APPROVED EQUAL	CHAIN HUNG MTD. AT 9' A.F.F.
F	LED	33	UNV	5" X 55" LINEAR INDUSTRIAL WET LOCATION LED FIXTURE	VAP–4000LM–FST–MD–MVOLT–GZ10–35K–80CRI	3500K	LITHONIA LIGHTING OR APPROVED EQUAL	SURF. MTD. IN ELEV. PIT
G	LED	18	UNV	7" ROUND LED RECESSED DOWNLIGHT	7RN–BAC–C6L–20–835–W–Z10–U–BAC–C7–R–DL–W–WH–BAC	3500K	LIGHTOLIER OR APPROVED EQUAL	
GE	LED	18	UNV	SAME AS TYPE 'G' EXCEPT WITH BATTERY PACK	7RN–EM–BAC–C6L–20–835–W–Z10–U–BAC–C7–R–DL–W–WH–BAC	3500K	LIGHTOLIER OR APPROVED EQUAL	
H	LED	30	UNV	6" X 48" RECESSED GRID LED FIXTURE WITH 0 – 10 V DIMMING	6L–GRID–D–4–SOF–C1–35K–D085–D01–1C–UNV	3500K	LITECONTROL OR APPROVED EQUAL	
HE	LED	30	UNV	SAME AS TYPE 'H' EXCEPT WITH BATTERY PACK	6L–GRID–D–4–SOF–C1–35K–D085–D01–1C–UNV–EF	3500K	LITECONTROL OR APPROVED EQUAL	
J	LED	15	UNV	8" X 48" LED SURFACE MOUNTED FIXTURE	4764–LED–35K–MVOLT–VCNP–MOUNT	3500K	HYDREL OR APPROVED EQUAL	
K	LED	22	UNV	7" ROUND LED WET LOCATION RECESSED DOWNLIGHT	7RN–BAC–C6L–25–830–W–Z10–U–BAC–C7–R–DL–W–BK–P–BAC	3000K	LIGHTOLIER OR APPROVED EQUAL	
ME	LED	17	UNV	NORMALLY OFF INTERIOR LED EMERGENCY WALL PACK	CZQ6L	–	HOLOPHANE OR APPROVED EQUAL	
N	LED	15	UNV	4" X 48" LED COVE FIXTURE	MCV504–LLP–4'–MCFMC–80CRI–35K–400LMF–ASYM–DARK–MVOLT–SGW–ZT	3500K	MARK LIGHTING OR APPROVED EQUAL	
O	LED	10	UNV	2" ROUND LED RECESSED DOWNLIGHT	AX2 D G2–08LM–35K–80CRI–45D–ZT–MVOLT–2DP–W	3500K	ACULUX OR APPROVED EQUAL	
P	LED	75	UNV	ROUND POST TOP LED AREA POLE FIXTURE WITH 4" ROUND ALUMINUM POLE AT 150 MPH WIND RATING	FIXTURE: MRP LED–42C–530–30K–SR2–MVOLT–FINISH POLE: RSA–10–4–5G	3000K	LITHONIA LIGHTING APPROVED EQUAL	
Q	LED	25	UNV	3" X 48" LINEAR LED CANOPY WET LOCATION FIXTURE	RN–D–4–5–3K8–AS–DL–UNV–FINISH	3000K	ARCHITECTURAL AREA LIGHTING OR APPROVED EQUAL	
X	LED	3	UNV	LED EDGE LIT EXIT SIGN WITH BATTERY PACK	EDG–W–FACES–RED–EL–SD–BAA	–	LITHONIA LIGHTING OR APPROVED EQUAL	
XW	LED	4	UNV	LED WET LOCATION EXIT SIGN WITH BATTERY PACK	DLTLX–S–W–W–R–120/277–EL N–CW–SD–BAA	–	HOLOPHANE OR APPROVED EQUAL	

NOTE:

1. ALL FIXTURES SHALL COMPLY WITH BUY AMERICA ACT.

KEYED NOTES – PANEL SCHEDULES

NO.	DESCRIPTION
1	SHORT CIRCUIT RATING BASED ON PRELIMINARY CALCULATIONS AND ASSUMPTIONS. ACTUAL SHORT CIRCUIT RATING SHALL BE BASED ON CONTRACTOR SUBMITTED SHORT CIRCUIT STUDY, PER SPECIFICATIONS.

STATE PROJECT NUMBER

1000–57–05

1 SCR: 22K AIC

GL-1

120/208 V, 3 PH., 4 W., 100 A BUS, 50 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			SPARE		20A-1	1	2	20A-1		SPARE			
			SPARE		20A-1	3	4	20A-1		SPARE			
			SPARE		20A-1	5	6	20A-1		SPARE			
			SPARE		20A-1	7	8	20A-1		SPARE			
			SPARE		20A-1	9	10	20A-1		SPARE			
			SPARE		20A-1	11	12	20A-1		SPARE			
			SPARE		20A-1	13	14	20A-1		SPARE			
			SPARE		20A-1	15	16	20A-1		SPARE			
			SPARE		20A-1	17	18	20A-1		SPARE			
			SPARE		20A-1	19	20	20A-1		SPARE			
			SPARE		20A-1	21	22	20A-1		SPARE			
			SPARE		20A-1	23	24	20A-1		SPARE			
			SPARE		20A-1	25	26	20A-1		SPARE			
			SPARE		20A-1	27	28	20A-1		SPARE			
			SPARE		20A-1	29	30	20A-1		SPARE			
			SPARE		20A-1	31	32	20A-1		SPARE			
			SPARE		20A-1	33	34	20A-1		SPARE			
			SPARE		20A-1	35	36	20A-1		SPARE			
			SPARE		20A-1	37	38	20A-1		SPARE			
			SPARE		20A-1	39	40	20A-1		SPARE			
			SPARE		20A-1	41	42	20A-1		SPARE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

1 SCR: 42K AIC

H4-1

277/480 V, 3 PH., 4 W., 150 A BUS, 150 A MCB

WATTS A	WATTS B	WATTS C	DESCRIPTION	BRKR REQ	TRIP POLES	CCT NO	CCT NO	TRIP POLES	BRKR REQ	DESCRIPTION	WATTS A	WATTS B	WATTS C
			RTU-1		40A-3	1	2			BUSSED SPACE			
						3	4			BUSSED SPACE			
						5	6			BUSSED SPACE			
			RTU-2		40A-3	7	8			BUSSED SPACE			
						9	10			BUSSED SPACE			
						11	12			BUSSED SPACE			
			RTU-3		20A-3	13	14			BUSSED SPACE			
						15	16			BUSSED SPACE			
						17	18			BUSSED SPACE			
			UH-1g		20A-2	19	20			BUSSED SPACE			
						21	22			BUSSED SPACE			
			UH-1h		20A-2	23	24			BUSSED SPACE			
						25	26			BUSSED SPACE			
			SPARE		20A-1	27	28			BUSSED SPACE			
			SPARE		20A-1	29	30			BUSSED SPACE			
			SPARE		20A-1	31	32			BUSSED SPACE			
			SPARE		20A-1	33	34			BUSSED SPACE			
			SPARE		20A-1	35	36			BUSSED SPACE			
			SPARE		20A-1	37	38			BUSSED SPACE			
			SPARE		20A-1	39	40			BUSSED SPACE			
			SPARE		20A-1	41	42			BUSSED SPACE			
										New Connect	0	0	0
										Connect Amps		0	Amps
										Demand Amps		0	Amps

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

SHEET E–502

ELECTRICAL SCHEDULES PRE_265

SCALE = NONE

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8

STATE PROJECT NUMBER
1000–57–05

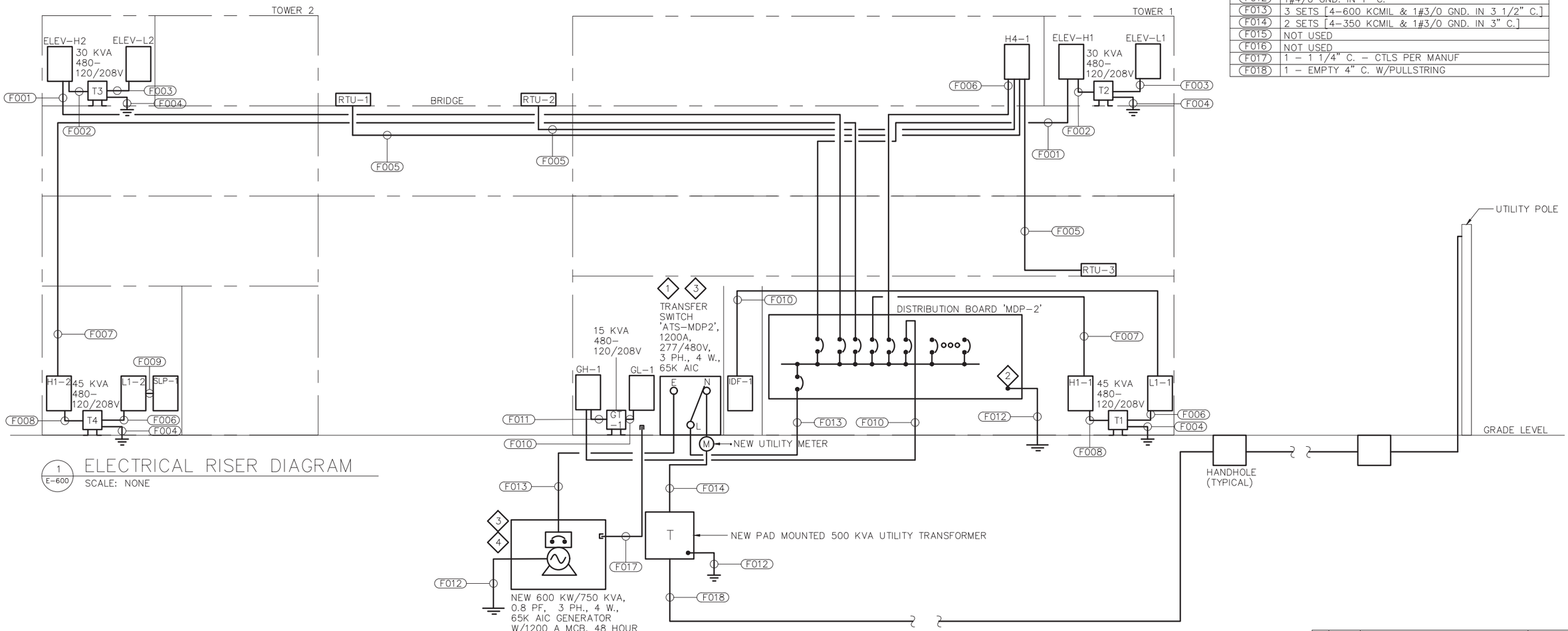
GENERAL NOTES – RISER PLAN

1 REFER TO DRAWING E–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

KEYED NOTES – RISER PLAN

NO.	DESCRIPTION
1	EQUIPMENT SHALL BE SERVICE RATED. PROVIDE WITH BYPASS ISOLATION AND DEADFRONT OPTIONS.
2	GROUND DISTRIBUTION BOARD TO GROUNDING ELECTRODE SYSTEM PER NEC 250.50.
3	SHORT CIRCUIT RATING BASED ON PRELIMINARY CALCULATIONS AND ASSUMPTIONS. ACTUAL SHORT CIRCUIT RATING SHALL BE BASED ON CONTRACTOR SUBMITTED SHORT CIRCUIT STUDY, PER SPECIFICATIONS.
4	GENERATOR SHALL COMPLY WITH BUY AMERICA ACT.

FEEDER SCHEDULE	
FEEDER TAG	FEEDER SIZE
F001	4–600KCMIL & 1#2 G. IN 3 1/2" C.
F002	3#6 & 1#10 GND. IN 3/4" C.
F003	4#1 & 1#6 GND. IN 1 1/2" C.
F004	1#6 GND. IN 3/4" C.
F005	3#8 & 1#10 GND. IN 3/4" C.
F006	4#1/0 & 1#6 GND. IN 2" C.
F007	4#1 & 1#8 GND. IN 1 1/2" C.
F008	3#4 & 1#8 GND. IN 1" C.
F009	4#8 & 1#10 GND. IN 3/4" C.
F010	4#6 & 1#10 GND. IN 1" C.
F011	4#10 & 1#10 GND. IN 3/4" C.
F012	1#4/0 GND. IN 1" C.
F013	3 SETS [4–600 KCMIL & 1#3/0 GND. IN 3 1/2" C.]
F014	2 SETS [4–350 KCMIL & 1#3/0 GND. IN 3" C.]
F015	NOT USED
F016	NOT USED
F017	1 – 1 1/4" C. – CTLS PER MANUF
F018	1 – EMPTY 4" C. W/PULLSTRING



1 / E–600 ELECTRICAL RISER DIAGRAM
SCALE: NONE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL RISER DIAGRAM

SHEET E–600

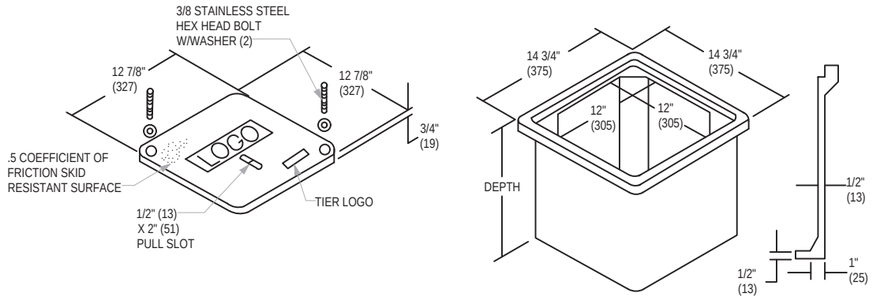
PRE_266

SCALE = NONE

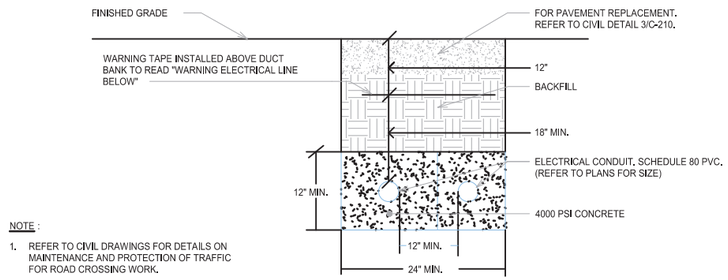
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STATE PROJECT NUMBER
1000–57–05



1 E–700 HANDHOLE DETAIL
SCALE: NONE



NOTE :

1. REFER TO CIVIL DRAWINGS FOR DETAILS ON MAINTENANCE AND PROTECTION OF TRAFFIC FOR ROAD CROSSING WORK.

2 E–700 DUCT BANK DETAIL
SCALE: NONE

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. FC

ELECTRICAL DETAILS

SHEET E–700

PRE_267

SCALE = AS NOTED

STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – LIGHTNING PLAN

1 REFER TO DRAWING E-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

2 REFER TO DRAWING E-801 FOR LIGHTNING PROTECTION DETAILS.

3 THE DESIGN & DETAILS SHOWN WILL MEET THE REQUIREMENTS OF UNDERWRITERS LABORATORY CODE 96/96A, NATIONAL FIRE PROTECTION ASSOCIATION CODE 780 & THE LIGHTNING PROTECTION INSTITUTE CODE 175 FOR LIGHTNING PROTECTION SYSTEMS

4 A CONDUCTOR BEND SHALL NOT FORM A SHARPER ANGLE THAN 90 DEGREES OR HAVE A RADIUS LESS THAN 8 INCHES.

5 METAL BODIES OF INDUCTANCE LOCATED WITHIN 6' OF A MAIN LIGHTNING COMPONENT SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM (INCLUDING BUT NOT LIMITED TO METAL VENTS, FLASHING, LOUVERS & ROOF DRAINS).

6 CONNECTIONS TO GROUND AND/OR COUNTERPOISE SHALL BE MADE AT A POINT NOT LESS THAN 2'-0 BELOW GRADE AND 3'-0 TO 8'-0 AWAY FROM FOUNDATION WALL.

7 AIR TERMINAL SHALL BE PLACED AT THE LOCATIONS INDICATED, NOT MORE THAN 2'-0 FROM THE ENDS OF RIDGES, OUTSIDE CORNERS, OR OUTSIDE EDGES OF MAIN ROOFS, AND MUST EXTEND A MINIMUM OF 10" ABOVE THE OBJECT TO BE PROTECTED.

8 MID-ROOF AIR TERMINALS SHALL BE SPACED AT 50'-0" O.C. MAX. SPACING.

9 PERIMETER AIR TERMINALS THAT ARE LESS THAN 24" IN HEIGHT SHALL BE SPACED AT 20'-0" O.C. MAX. PERIMETER AIR TERMINALS THAT ARE 24" IN HEIGHT OR GREATER SHALL BE SPACED AT 25'-0" O.C. MAX.

10 JOB CONDITIONS MAY DICTATE SLIGHT VARIATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS, BUT IN NO INSTANCE SHALL A VARIATION BREAK COMPLIANCE WITH THESE NOTES AND REQUIREMENTS.

11 CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD PATH FREE FROM "U" AND "V" POCKETS. ANY RISE IN CONDUCTOR SHALL BE NO STEEPER THAN 3" OF RISE PER 12" OF RUN.

12 COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE PLACED ON ALUMINUM, GALVALUM, OR BARE GALVANIZED STEEL SURFACES. ALUMINUM MATERIALS SHALL NOT BE PLACED ON COPPER SURFACES.

13 FOR THE SAKE OF CLARITY EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN HAS NOT BEEN CALLED OUT. INSTEAD TYPICAL DETAILS ARE SHOWN.

14 ALL MISCELLANEOUS STEEL INCLUDING BUT NOT LIMITED TO STRUCTURAL STEEL, REBAR, FRAMING & RAILINGS, SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGH CONSTRUCTION.

15 ELECTRIC, TELEPHONE, ANTENNA SYSTEM, AND OTHER MISCELLANEOUS GROUNDS SHALL BE CONNECTED WITH MAIN SIZED CONDUCTOR TO ANY LIGHTNING PROTECTION GROUND.

16 A LIGHTNING ARRESTOR, PROTECTOR, OR ANTENNA-DISCHARGE UNIT MUST BE INSTALLED ON EACH ELECTRIC AND TELEPHONE SERVICE ENTRANCE AND RADIO AND TELEVISION ANTENNA LEAD IN.

17 BOND ALL METAL PIPES SUCH AS WATER, GAS, FIRE, STORM, SEWER WHICH ENTER THE STRUCTURE TO THE NEAREST DOWNLEAD, GROUND ROD OR COUNTERPOISE.

18 SEAL THE ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL, SILICONE OR LEAD WEDGES.

19 CABLE MUST BE FASTENED EVERY 3'-0" O.C. MAXIMUM.

20 THE LIGHTNING PROTECTION INSTALLER SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE THE WORK IS STARTED. INSTALLERS WHO FAIL TO VERIFY, REVIEW, AND COORDINATE THE WORK SHALL TAKE FULL RESPONSIBILITY FOR THE WORK AND ANY PORTION OF THE WORK THAT IS IMPROPERLY INSTALLED OR LOCATED. THE INSTALLER SHALL NOTIFY ENGINEER IF DIMENSIONAL ERRORS OR DESIGN CONFLICTS OCCUR.

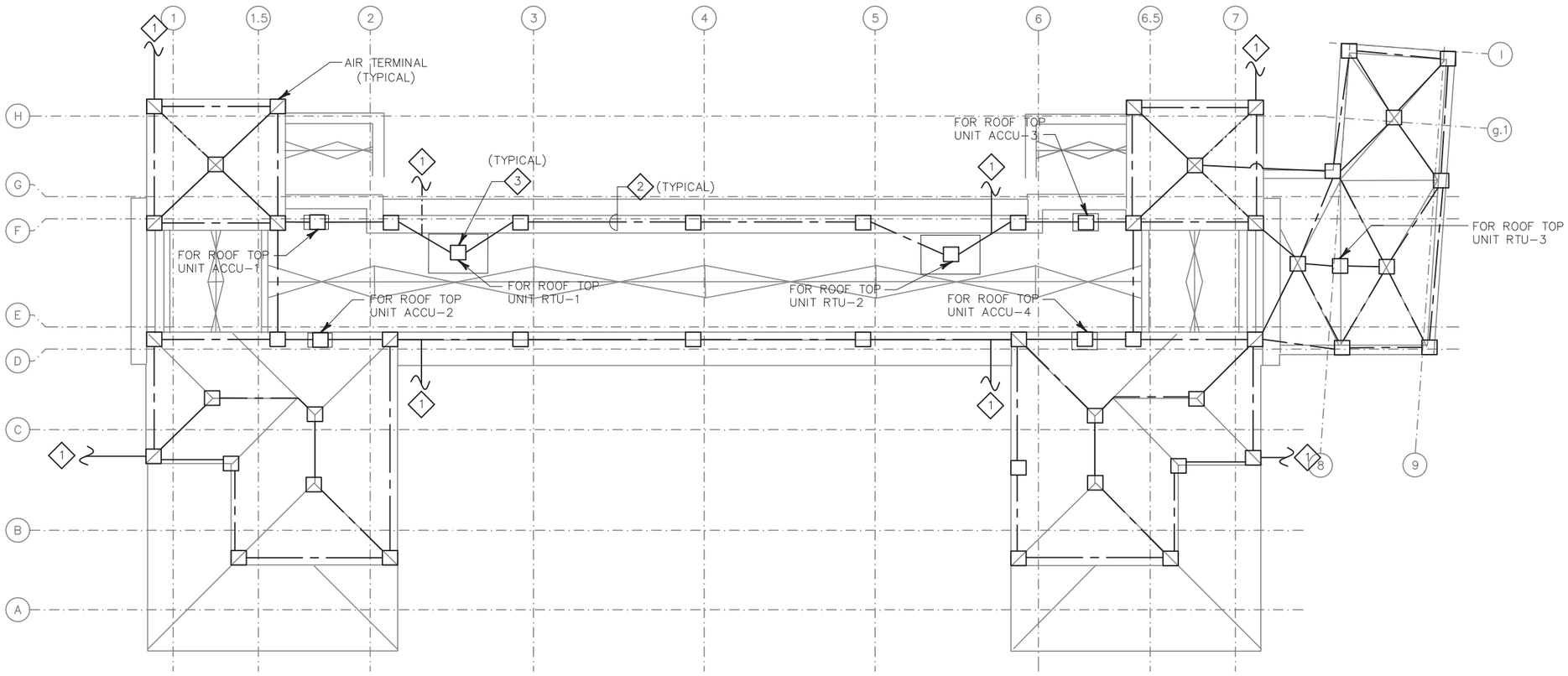
21 ALL LIGHTNING PROTECTION SYSTEMS REQUIRE PROPERLY INSTALLED SURGE PROTECTIVE DEVICES AS OUTLINED IN PARAGRAPH 13 OF UL 96A.

22 WHERE POSSIBLE, SECURELY INSERT CABLE INTO EXISTING SPLICER OR POINT BASE TO CONSERVE SPLICERS.

23 PICTURES SHALL BE TAKEN WHERE BONDS ARE CONCEALED OR BURIED (SUCH AS WATER, GAS, AND ELECTRIC BONDS, GROUND RODS, THRU WALLS AND THRU ROOFS, (INTERIOR PICTURES)).

KEYED NOTES – LIGHTNING PLAN

NO.	DESCRIPTION
1	DOWN TO BUILDING GROUNDING LOOP. CONNECT TO GROUNDING LOOP. REFER TO DRAWING E-300 FOR FURTHER INFORMATION.
2	28 STRANDS OF 0.066 GAUGE CLASS II ROPE LAY COPPER CABLE.
3	REFER TO DETAIL 5 ON DRAWING E-801 FOR FURTHER INFORMATION.



1 / E-103 ROOF LIGHTNING PROTECTION PLAN
SCALE: 1/16"=1'-0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

ELECTRICAL ROOF LIGHTNING PROTECTION PLAN

SHEET E-800

PRE_268

SCALE = AS NOTED

8

8

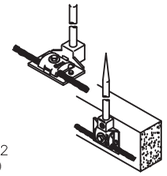
STATE PROJECT NUMBER
1000–57–05

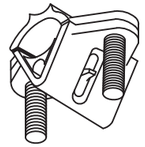


28 STRANDS OF .066 GAUGE (1.68MM) ROPE LAY COPPER CABLE. 385 POUNDS PER THOUSAND FEET (573 GRAM/METER). 121,968 CIRCULAR MILS (61.5MM) OF CONDUCTIVITY. EXCEEDS CLASS II REQUIREMENTS.



DUAL THREAD A CAST BRONZE BASE WITH A 2–WAY CABLE HOLDER. THREADED FOR TOP OR SIDE MOUNTING. 5/16–18 STAINLESS STEEL BOLT AND WASHER. 2–13/16" X 2–15/16" (71.44MM X 74.61MM). APPROXIMATELY 9.3 OZ. (263 GRAMS). USE SUFFIX 3/8 OR 1/2 TO DENOTE AIR TERMINAL THREAD SIZE.





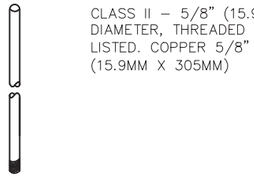
MEDIUM PIPE CLAMP LEADED CAST BRONZE PIPE CLAMP. FITS UP TO 2" (5.1CM) O.D. PIPE. STAINLESS STEEL BOLTS. APPROXIMATELY 14 OZ. (398 GRAMS).



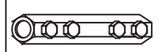


* 1/4" HOLE, LARGEST STAMPED COPPER LOOP. * USE WITH CLASS II CONDUCTORS.

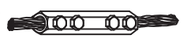




CLASS II – 5/8" (15.9MM) DIAMETER, THREADED BASE, UL LISTED. COPPER 5/8" X 12" (15.9MM X 305MM)



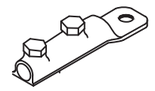
STRAIGHT 4–BOLT HEX BRASS STRAIGHT SPLICER. STAINLESS STEEL BOLTS. 3–1/2" X 3/4" (8.9CM X 1.9CM) HEX; APPROXIMATELY 6 OZ. (170 GRAMS).





ADHESIVE BASE A CAST BRONZE BASE WITH 2–WAY BOLT PRESSURE CABLE HOLDER. CAP CAN BE ROTATED 90 DEGREES. SUITABLE FOR USE ON BUILT–UP, SINGLE MEMBRANE, OR OTHER ROOF SURFACES WHERE ALL MECHANICAL PENETRATIONS MUST BE AVOIDED. FOR USE WITH ADHESIVES COMPATIBLE TO ROOF SURFACE. 5/16–18 STAINLESS STEEL BOLT AND WASHER. 4–1/4" X 4" (10.8CM X 10.2CM); APPROXIMATELY 16 OZ. (454 GRAMS). USE SUFFIX 3/8, 1/2 OR 5/8 TO DENOTE AIR TERMINAL THREAD SIZE.



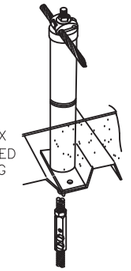


MINI BONDING LUG CAST BRONZE SECONDARY CABLE TO METAL SURFACE BONDING LUG. STAINLESS STEEL BOLTS. 3–1/2" X 9/16" (8.9CM X 1.4CM); APPROXIMATELY 3 OZ. (85 GRAMS).





RECTANGLE MOUNT – CABLE TO VERTICAL CABLE ASSEMBLY SUPPLIED WITH 18" (45.7CM) OF 1/2–13 THREADED ROD, 12" (30.5CM) OF SCHEDULE 40 PVC TUBING, STAINLESS STEEL HARDWARE, AND 2" X 4" (5.1CM X 10.2CM) MOUNT TO FIT CORRUGATED STEEL DECKING OR FOR FASTENING TO ANY FLAT DECKING.





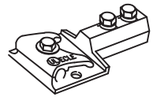
2–BOLT PARALLEL CAST BRONZE CLAMP FOR SPLICING OR CONNECTING TWO RODS, TWO CABLES OR ROD TO CABLE. STAINLESS STEEL CARRIAGE BOLTS WITH NUTS AND WASHERS. 2" X 1–5/8" (5.1CM X 4.13CM); APPROXIMATELY 8 OZ. (227 GRAMS).



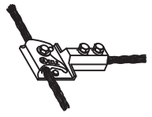


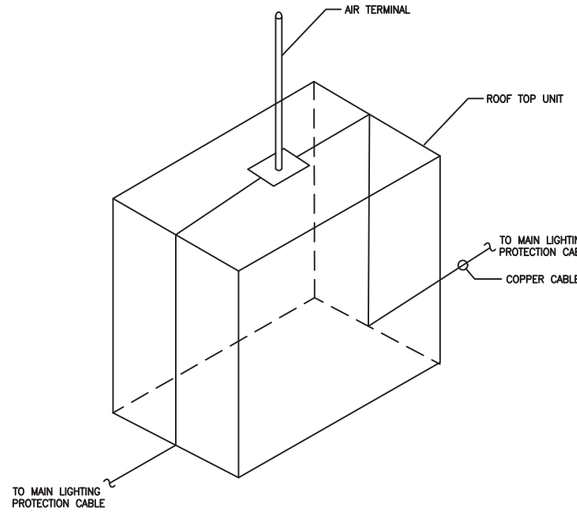
STAMPED ADHESIVE CRIMP COPPER LOOP. FOR USE ON BUILT–UP, SINGLE MEMBRANE OR OTHER FLAT ROOF SURFACES WHERE MECHANICAL PENETRATIONS MUST BE AVOIDED. USE WITH ADHESIVES COMPATIBLE TO ROOF SURFACE. 2–1/4"X3–1/2" (5.7CMX8.9CM); APPROXIMATELY 1.4 OZ (40 GRAMS).



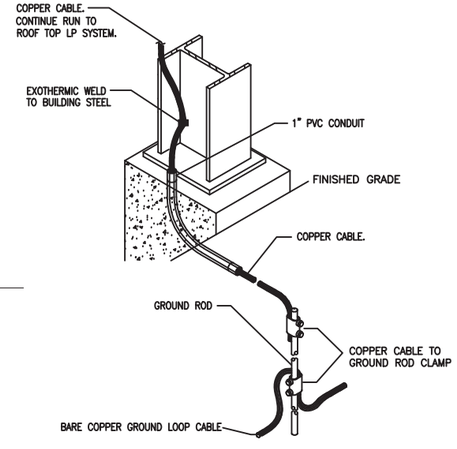


TEE CAST BRONZE PRESSURE "TEE" SPLICER. STAINLESS STEEL BOLTS AND WASHER. 2–1/4" X 2" X 5" (5.7CM X 5.1CM X 12.7CM); APPROXIMATELY 10 OZ. (284 GRAMS).

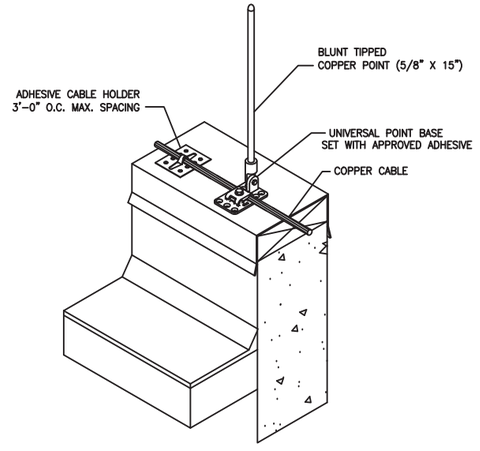




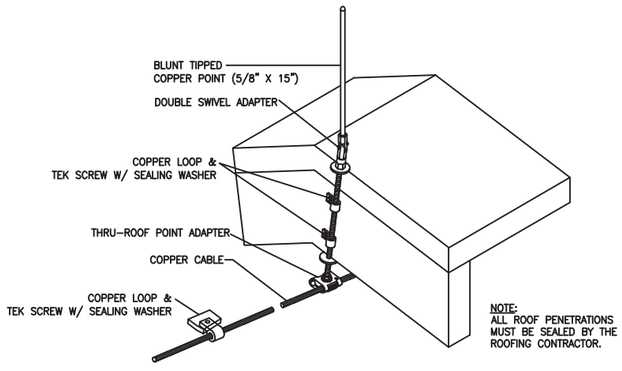
5 E–801 TYP. ROOF TOP UNIT BASED AIR TERMINAL
SCALE: NONE



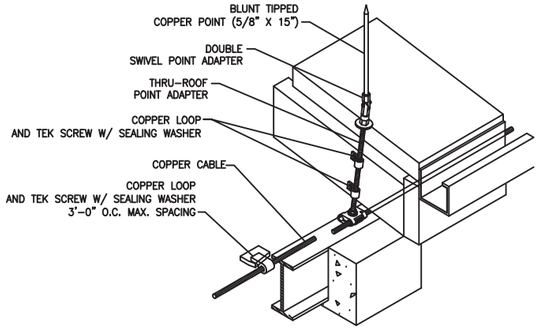
4 E–801 TYP. STEEL COLUMN BOND TO GROUND CONNECTION
SCALE: NONE



3 E–801 TYP. ADHESIVE BASED AIR TERMINAL
SCALE: NONE



1 E–801 TYP. CONCEALED AIR TERMINAL
SCALE: NONE



2 E–801 TYP. CONCEALED AIR TERMINAL
SCALE: NONE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY	PH	PLANS CK'D.	FC

LIGHTNING PROTECTION DETAILS

SHEET E–801

PRE_269

SCALE = AS NOTED

8

8

STATE PROJECT NUMBER

1000-57-05

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: MKE 20210830
Project Type: New Construction

Construction Site: 5601 S. 6th Street Milwaukee, Wisconsin
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power..1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Pedestrian Bridge (Transportation)	1346	0.63	848
2-East Tower (Transportation)	1817	0.63	1145
3-Passage (Transportation)	785	0.63	495
4-West Tower (Transportation)	1817	0.63	1145
		Total Allowed Watts =	3632

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Pedestrian Bridge (Transportation)				
LED: Other:	1	11	30	330
LED: Other:	1	4	4	16
2-East Tower (Transportation)				
LED: Other:	1	12	32	384
LED: Other:	1	7	50	350
LED: Other:	1	2	33	66
LED: Other:	1	12	17	204
LED: Other:	1	2	4	8
LED: Other:	1	4	17	68
3-Passage (Transportation)				
LED: Other:	1	8	22	176
LED: Other:	1	1	4	4
4-West Tower (Transportation)				
LED: Other:	1	9	32	288
LED: Other:	1	7	50	350
LED: Other:	1	2	33	66
LED: Other:	1	12	17	204
LED: Other:	1	2	17	34

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: Other:	1	1	4	4
			Total Proposed Watts =	2552

Interior Lighting PASSES: Design 30% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: MKE 20210830
Project Type: New Construction
Exterior Lighting Zone: 3 (Other (LZ3))

Construction Site: 5601 S. 6th Street Milwaukee, Wisconsin
Owner/Agent:
Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Roof (Plaza area)	1435 ft2	0.16	Yes	230
Main entry	5 ft of door	30	Yes	150
Other door (not main entry)	5 ft of door	20	Yes	100
Other door (not main entry)	5 ft of door	20	Yes	100
Other door (not main entry)	5 ft of door	20	Yes	100
Other door (not main entry)	5 ft of door	20	Yes	100
Other door (not main entry)	5 ft of door	20	Yes	100
Other door (not main entry)	5 ft of door	20	Yes	100
Entry canopy	730 ft2	0.4	Yes	292
Entry canopy	430 ft2	0.4	Yes	172
			Total Tradable Watts (a) =	1544
			Total Allowed Watts =	1544
			Total Allowed Supplemental Watts (b) =	750

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 750 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Roof (Plaza area, 1435 ft2): Tradable Wattage				
LED: Other:	1	5	15	75
Main entry (5 ft of door width): Tradable Wattage				
LED: Other:	1	1	30	30
Other door (not main entry) (5 ft of door width): Tradable Wattage				
LED: Other:	1	1	30	30
LED: Other:	1	1	30	30
LED: Other:	1	1	30	30
LED: Other:	1	1	30	30
LED: Other:	1	1	30	30
LED: Other:	1	1	30	30

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. SK

ELECTRICAL COMCHECK SHEETS

SHEET EN-001

PRE_270

SCALE = NONE

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
LED: Other:	1	1	30	30
Entry canopy (730 ft2): Tradable Wattage				
LED: Other:	1	10	22	220
Entry canopy (430 ft2): Tradable Wattage				
LED: Other:	1	6	22	132
		Total Tradable Proposed Watts =		867

Exterior Lighting PASSES: Design 71% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title | Signature | Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2015 IECC

Requirements: 75.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-in Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas that need continuous lighting.
C405.2.1 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Automatic on controls are allowed in corridors, stairways, restrooms, primary building entrance areas and lobbies, and areas where manual-on controls could impact safety or security.
C405.2.1, C405.2.2.3 [EL23][1]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas that need continuous lighting.
C405.2.2.1 [EL22][1]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Areas such as security or emergency areas that need continuous lighting.
C405.2.3 [EL16][1]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Lighting required to have specific application controls.
C405.2.3, C405.2.3.1, C405.2.3.2 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.3, C405.2.3.1, C405.2.3.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL25][1,2]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

DRAWN BY PH | PLANS CK'D. SK

ELECTRICAL COMCHECK SHEETS

SHEET EN-002
PRE_271

SCALE = NONE

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17]¹	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18]¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.5.1 [FI19]¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C408.2.5.1 [FI16]¹	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33]¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: MKE 20210830 Report date: 01/05/22
Data filename: Page: 7 of 7

STATE PROJECT NUMBER

1000-57-05

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ELECTRICAL

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ELECTRICAL COMCHECK SHEETS

SHEET EN-003

PRE_272

SCALE = NONE

PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$
BATCH PRINT SHEET CSD OF NSD

STATE PROJECT NUMBER

1000-57-05

COMMUNICATIONS NOTES:

1. PROVIDE FACTORY ACCEPTANCE TESTING PRIOR TO SHIPPING EQUIPMENT TO THE SITE. PERFORM INTEGRATION AND TESTING ON-SITE TO ENSURE FUNCTIONALITY. A THIRD-PARTY COMMISSIONING AGENT SHALL VERIFY THE SYSTEM IS OPERATING AND FUNCTIONING PER CONTRACT REQUIREMENTS.
2. ALL DISPLAYS AND EQUIPMENT RACKS/CABINETS (WALL AND FLOOR MOUNTED) SHALL BE PROPERLY SECURED AND ANCHORED AS PER MANUFACTURER RECOMMENDATIONS.
3. COMMUNICATIONS CONDUITS:
   - 3.1 EXTERIOR (ABOVE GROUND)
     - 3.1.1 GALVANIZED RIGID CONDUIT (GRC)
     - 3.1.2 LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)
   - 3.2 INTERIOR
     - 3.2.1 ELECTRICAL METAL TUBING (EMT)
     - 3.2.2 LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LFMC)
4. COMMUNICATIONS CONDUIT PLACEMENT:
   - 4.1 LFMC - MAXIMUM LENGTH OF RUN IS 18 INCHES. IF A RUN REQUIRES IN EXCESS OF 18 INCHES SUBMIT SHOP DRAWINGS OF PROPOSED METHOD FOR APPROVAL PRIOR TO IMPLEMENTATION.
   - 4.2 MINIMUM BEND RADIUS FOR 90 DEGREE BENDS FOR ALL TYPE CONDUITS IS 12 INCHES.
   - 4.3 FOR CONDUITS WITH SPARE CAPACITY PROVIDE AN END-TO-END 600 LBS RATED PULL STRING, SECURED AT BOTH ENDS.
5. PROVIDE INSULATED BUSHING ON OPEN ENDS OF ALL COMMUNICATIONS CONDUITS.
6. COMMUNICATIONS CONDUIT RUNS FOR CAT6 CABLING NOT TO EXCEED 270 FEET. IF THE CONDUIT RUN EXCEEDS 270 FEET 50UM MM (OM-3) FIBER SHALL BE IMPLEMENTED.
   - 6.1 PROVIDE 19 INCH RACK MOUNTABLE UL LISTED 50UM MM FIBER TO ETHERNET CONVERTER
   - 6.2 CHASSIS (TRANSITION NETWORKS ION SERIES OR APPROVED EQUAL) CAPABLE OF PROVIDING ADEQUATE NUMBER OF PORT FOR PID'S PLUS 20% SPARE.
7. PROVIDE UL LISTED CAT6 ETHERNET TO 50UM MM (OM-3) FIBER MODULES FOR THE NUMBER OF PIDS THAT REQUIRE FIBER CONNECTIONS PLUS 20% SPARE MODULES.
8. CAT6 CABLE TO BE NEC RATED FOR THAT ENVIRONMENT THAT IT IS ROUTED OR TRAVERSES. FOR EXAMPLE CAT6 CABLE RUN UNDER SLAB ON GRADE SHALL BE RATED FOR WET LOCATIONS. CAT6 CABLE RUN IN PLENUM AREA SHALL BE PLENUM RATED.
9. EXTERIOR CAT6 CABLE TERMINATIONS: PROVIDE WEATHER TIGHT BACK BOX AND IP67 RATED SIEMON ZMAX RUGGEDIZED OR APPROVED EQUAL.
10. EXTERIOR 50UM MM FIBER CABLE TERMINATIONS: PROVIDE WEATHER TIGHT BACK BOX AND SIMPLEX SC TYPE OUTLET, SIEMON LIGHTSYSTEM OR APPROVED EQUAL.
11. EXTERIOR PATCH CABLES CAT6 AND 50UM SC TO SC FIBER: PROVIDE IP67 PATCH CORDS MATED FOR THE CONNECTOR TYPE AT THE OUTLET. PROVIDE 25% SPARE LENGTH IN PATCH CORD WHEN MEASURED FROM THE OUTLET TO THE DEVICE INTERFACE INPUT.
12. INTERIOR PATCH CABLES CAT6 AND 50UM MM SC TO SC FIBER: PROVIDE 1 METER PATCH CORDS FOR THE REQUIRED NUMBER OF CONNECTIONS PLUS 20% SPARE.
13. TEST ALL CAT6 CABLES PER TIA-568-C-2 STANDARD. SUBMIT COMPLETED TEST DATA TO RESIDENT ENGINEER IN STANDARD ELECTRONIC FILE FORMAT.
14. TEST ALL 50 UM MM FIBER CABLES PER TIA-568-C-3 STANDARD. SUBMIT COMPLETED TEST DATA TO RESIDENT ENGINEER IN STANDARD ELECTRONIC FILE FORMAT.
15. FIRE STOP ALL WALL PENETRATIONS PER DIV 7 REQUIREMENTS. USE EQUALLY RATED ASSEMBLIES TO REPAIR PENETRATIONS IN RATED WALLS.
16. USE WEATHER RATED JUNCTION AND BACK BOXES FOR ALL EXTERIOR LOCATIONS.
17. INTERIOR JUNCTION AND BACK BOXES SHALL BE 4 INCHES SQUARE AND 2 1/8 INCHES DEEP MINIMUM.
18. PERFORM ALL WORK AND PROVIDE ALL MATERIAL IN ACCORDANCE WITH THE OREGON ELECTRICAL SPECIALTY CODE, PORTLAND CITY CODES, AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

FIBER OPTIC CABLING SELECTION AND INSTALLATION NOTES:

APPROVED OPTICAL FIBER MEDIA

1. HORIZONTAL OPTICAL FIBER CABLING SHALL BE MULTI-MODE FIBER (MMF), GRADED INDEX OPTICAL FIBER QAVEGUIDE WITH NOMINAL 50/125MM CORE/CLADDING DIAMETER OF 62.5/125MM CORE/CLADDING DIAMETER (WHEN PERMITTED).
2. NEW INSTALLATIONS 50/125MM MMF SHALL BE USED FOR ALL NEW CONSTRUCTION WHERE 62.5/125MM IS NOT PRESENT.

HORIZONTAL FIBER DESIGN CONSIDERATIONS

1. THE HORIZONTAL LINK SHOULD NOT CONTAIN SINGLE-MODE AND MULTI-MODE CABLE COMBINED INTO A SINGLE JACKET OR SHEATH.
2. THE MAXIMUM LENGTH OF HORIZONTAL MMF IS 2,000 METERS (6,560 FT).
3. BOTH MMF AND SMF SHOULD HAVE DESIGNATED DISTANCE MARKERS AT LEAST EVERY FIVE FEET OR ONE METER INCREMENTS.

CONDUITS FOR FIBER-OPTIC CABLE

1. CONDUIT TO BE RUN IN THE MOST DIRECT ROUTE POSSIBLE ALONG BUILDING LINES OR PERPENDICULAR TO BUILDING LINES.
2. CONDUITS WILL HAVE A PULL BOX EVERY 150 FEET (18 IN. X 18 IN. X 4 IN.).
3. CONDUITS WILL HAVE NO MORE THAN TWO 90 DEGREE BENDS WITHOUT PULL BOX. THE 90 DEGREE BENDS SHALL NOT HAVE LESS THAN A 12 INCH BEND RADIUS.

AUDIO NOTES:

1. SPEAKER LOCATIONS SHALL BE DETERMINED BASED UPON SPEECH-TO-NOISE RATIOS AND GUIDED BY 28 CFR PART 36. SPEAKERS SHALL BE AUDIBLE WHERE SIGNS ARE VISIBLE.
2. SPEAKER-TO-SPEAKER DISTANCE SHALL BE BASED UPON SOUND PRESSURE LEVEL OF 87DB. 87DB LEVEL IS BASED ON NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH RECOMMENDATIONS AND ON STANDARD PUBLISHED SOUND LEVELS.
3. IF AMBIENT MICS ARE PRESENT, THE SIGNAL-TO-NOISE RATIO SHALL BE 10DB. IF NO AMBIENT MICS ARE PRESENT, THE PREFERRED SPL IS 70-75DB INSIDE THE STATION AND 80-85DB OUT ON THE PLATFORMS (TO BE FIELD VERIFIED).

DATA CABLING SELECTION AND INSTALLATION NOTES:

HORIZONTAL CABLING SYSTEMS

APPROVED COPPER MEDIA (COMMSCOPE)

1. UNSHIELDED TWISTED PAIR (UTP), 4-PAIR, SOLID CORE, 22 TO 24 AWG CABLE WILL BE INSTALLED FOR VOICE AND DATA SERVICES IN THE HORIZONTAL CABLING SYSTEMS.
2. NEW INSTALLATIONS: CATEGORY 6 UTP COMMSCOPE.
3. EXISTING INSTALLATIONS: CATEGORY 5E COMMSCOPE MAY BE SPECIFIED WHEN ADDING ADDITIONAL HORIZONTAL LINKS IN AN EXISTING CATEGORY 5E INSTALLATION OR FOR EXTENSION OF T -1 OR POTS LINES.

HORIZONTAL CABLING SYSTEMS CONSIDERATION

1. MAXIMUM LENGTH OF HORIZONTAL DISTRIBUTION CABLE IS 90M (295 FT) FROM THE CROSS-CONNECT TO THE OUTLET/CONNECTOR.

COPPER INSTALLATION PRACTICES

1. FACTORY OR FIELD SPLICES OF THE INSULATED CONDUCTORS SHALL NOT BE ALLOWED ON ANY PORTION OF THE CABLE.
2. CABLE SLACK (SERVICE LOOP) SHALL BE PROVIDED AT EACH END OF INSTALLED HORIZONTAL CABLE PLANT. THE RECOMMENDED MINIMUM AMOUNT OF SLACK FOR ALL CABLING IN THE TELECOMMUNICATIONS ROOM SHOULD BE 3M (10 FT). SERVICE LOOP SHOULD BE 1 M (3.3 FT) FOR OPTICAL FIBER AND 30CM (12 IN.) FOR TWISTED-PAIR AT THE OUTLET. INCLUDE THE SLACK IN ALL LENGTH CALCULATIONS TO ENSURE CABLE DOES NOT EXCEED 90M (295 FT).
3. INSTALLERS MUST ADHERE TO MINIMUM BEND RADII DEFINED FOR CATEGORY CABLES (BEND RADII SHOULD BE NO LESS THAN FOUR-TIMES THE DIAMETER OF THE 4 PAIR CABLE).
4. AVOID SHARP BENDS (90 DEGREES) WHEN INSTALLING CABLE. TOTAL BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED 360 DEGREES.

SPECIAL CONDITIONS. IF A CONDUIT:

1. EXCEEDS 100 FEET (30 M) IN A CONTINUOUS RUN, A PULL BOX MUST BE INSTALLED.
2. REQUIRES MORE THAN TWO 90 DEGREE BENDS, THEN A PULL BOX MUST BE PROVIDED BETWEEN THE SECTIONS.
3. REQUIRES A REVERSE BEND (BETWEEN 100 DEGREE AND 180 DEGREE), THEN A PULL BOX MUST BE PROVIDED AT EACH BEND HAVING AN ANGLE FROM 100 DEGREE TO 180 DEGREE.
4. REQUIRES A THIRD 90 DEGREE BEND (BETWEEN PULL POINTS OR PULL BOXES) AND ONE OF THE FOLLOWING IS TRUE:
   - A) THE TOTAL RUN IS NO LONGER THAN 33 FEET.
   - B) THE CONDUIT IS INCREASED BY ONE TRADE SIZE.
   - C) ONE OF THE BENDS IS LOCATED WITHIN 12 INCH OF THE CABLE FEED END.

   THEN AN ADDITIONAL PULL BOX IS NOT REQUIRED. FURNISH AND INSTALL EXPANSION JOINTS FOR CONDUITS.

SPEAKER CABLING SELECTION AND INSTALLATION NOTES:

HORIZONTAL CABLING SYSTEMS

APPROVED COPPER MEDIA FOR NEW INSTALLATIONS

1. CL3 RATED 14 AWG SPEAKER WIRE FOR RUNS EXCEEDING 50 FEET.
2. CL3 RATED 16 AWG SPEAKER WIRE FOR RUNS SHORTER THAN 50 FEET.

COPPER INSTALLATION PRACTICES

1. CABLE SLACK (SERVICE LOOP) SHALL BE PROVIDED AT EACH END OF INSTALLED HORIZONTAL CABLE PLANT. THE RECOMMENDED MINIMUM AMOUNT OF SLACK FOR ALL CABLING IN THE TELECOMMUNICATIONS ROOM SHOULD BE 3M (10 FT). SERVICE LOOP SHALL BE 30CM (12 IN.) AT THE OUTLET. INCLUDE THE SLACK IN ALL LENGTH CALCULATIONS.
2. INSTALLERS MUST ADHERE TO MINIMUM BEND RADII DEFINED FOR CABLES.
3. AVOID SHARP BENDS (90 DEGREES) WHEN INSTALLING CABLE. TOTAL BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED 360 DEGREES.

SPECIAL CONDITIONS. IF A CONDUIT:

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2. REQUIRES MORE THAN TWO 90 DEGREE BENDS, THEN A PULL BOX MUST BE PROVIDED BETWEEN THE SECTIONS.
3. REQUIRES A REVERSE BEND (BETWEEN 100 DEGREE AND 180 DEGREE), THEN A PULL BOX MUST BE PROVIDED AT EACH BEND HAVING AN ANGLE FROM 100 DEGREE TO 180 DEGREE.
4. REQUIRES A THIRD 90 DEGREE BEND (BETWEEN PULL POINTS OR PULL BOXES) AND ONE OF THE FOLLOWING IS TRUE:
   - A) THE TOTAL RUN IS NO LONGER THAN 33 FEET.
   - B) THE CONDUIT IS INCREASED BY ONE TRADE SIZE.
   - C) ONE OF THE BENDS IS LOCATED WITHIN 12 INCH OF THE CABLE FEED END.

   THEN AN ADDITIONAL PULL BOX IS NOT REQUIRED. FURNISH AND INSTALL EXPANSION JOINTS FOR CONDUITS.

SPEAKER CONSIDERATIONS

1. SPEAKERS MUST BE AUDIBLE WHERE SIGNS ARE VISIBLE.
2. SOUND PRESSURE LEVEL FOR EXTERIOR SPEAKERS SHALL BE 87 DB AT A HEIGHT OF 4 FEET FOR SPEAKERS MOUNTED 14 FEET ABOVE FINISHED FLOOR. SOUND PRESSURE LEVEL FOR INTERIOR SPEAKERS SHALL BE 10 DB ABOVE AMBIENT AS MEASURED BY AMBIENT NOISE SENSOR.

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COMMUNICATIONS

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GENERAL NOTES

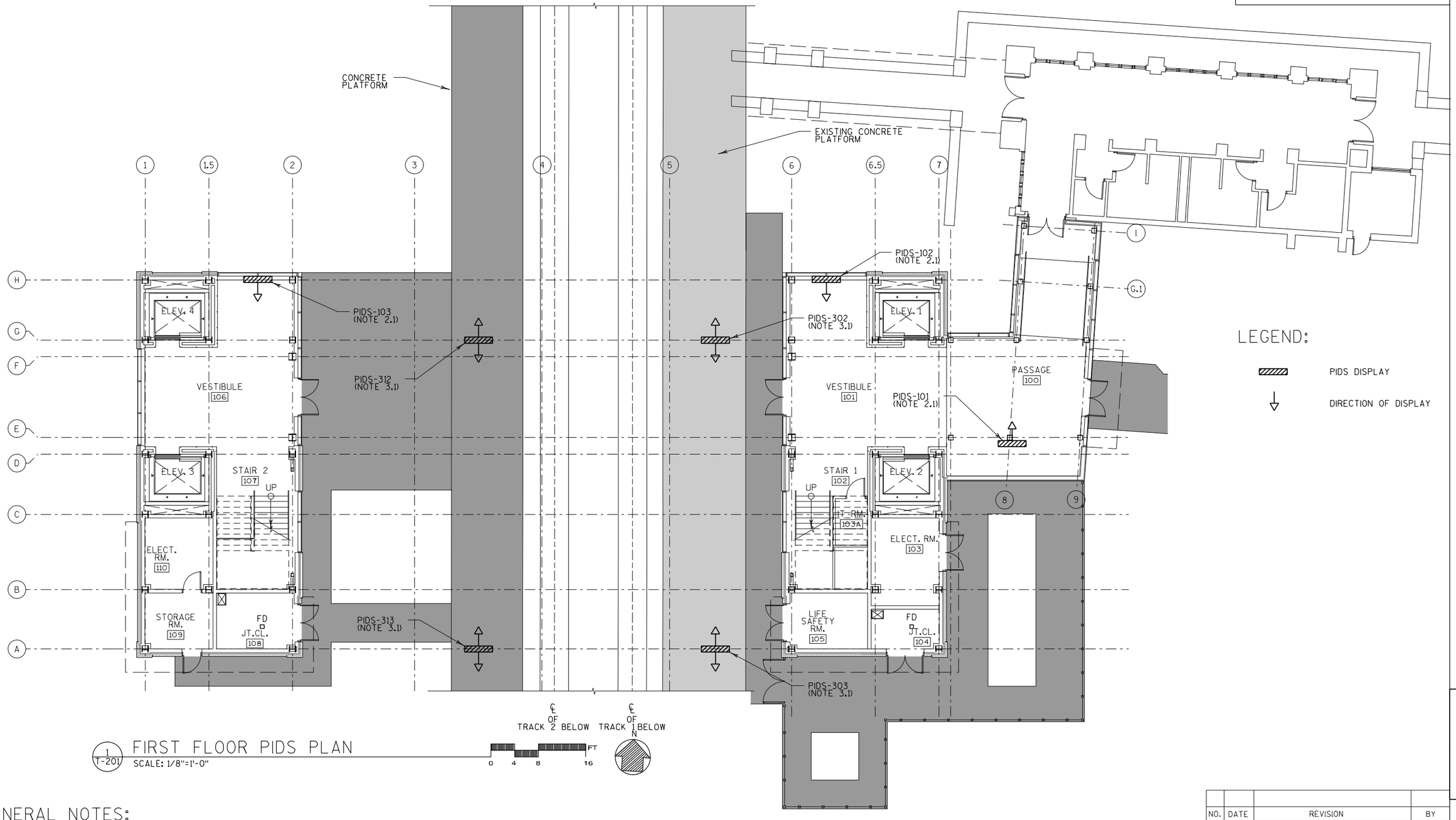
SHEET T-001

PRE_273

8

STATE PROJECT NUMBER
1000-57-05

BATCH PRINT SHEET CSD OF NSD
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PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$



1 / T-201 FIRST FLOOR PIDS PLAN
SCALE: 1/8"=1'-0"

LEGEND:

- PIDS DISPLAY
- DIRECTION OF DISPLAY

GENERAL NOTES:

1. FURNISH AND INSTALL ONE (1) PIDS SERVER IN CABINET LOCATED IN IT ROOM. (103A) AS SHOWN. AMTRAK PERSONNEL CABINET DIMENTIONS ARE 2'X 3'.
2. INTERIOR PIDS DISPLAY LOCATIONS:
   2.1 FURNISH AND INSTALL THREE (3) E1155-11-TM LCD AS SHOWN.
3. EXTERIOR PIDS DISPLAY LOCATIONS:
   3.1 FURNISH AND INSTALL FOUR (4) E2448-11-T1LED AS SHOWN.
   3.2 FURNISH AND INSTALL SIX (6) ADDITIONAL E2448-11T1LED (THREE ON EACH PLATFORM). DISPLAYS SHALL UTILIZE EXISTING COMMUNICATION OUTLET FOR MESSAGE BOARD ON EXISTING PLATFORM. LOCATIONS OF DISPLAYS ON NEW PLATFORM SHALL MIRROR LOCATIONS ON EXISTING PLATFORM.
4. WORKSTATION AND CONTROLS SHALL BE CONTROLLED REMOTELY FROM THE DOWNTOWN MILWAUKEE STATION (MKE).
5. FOR COMPLETE ROSTER OF DISPLAYS, SEE DWG. T-711.

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FIRST FLOOR PIDS PLAN

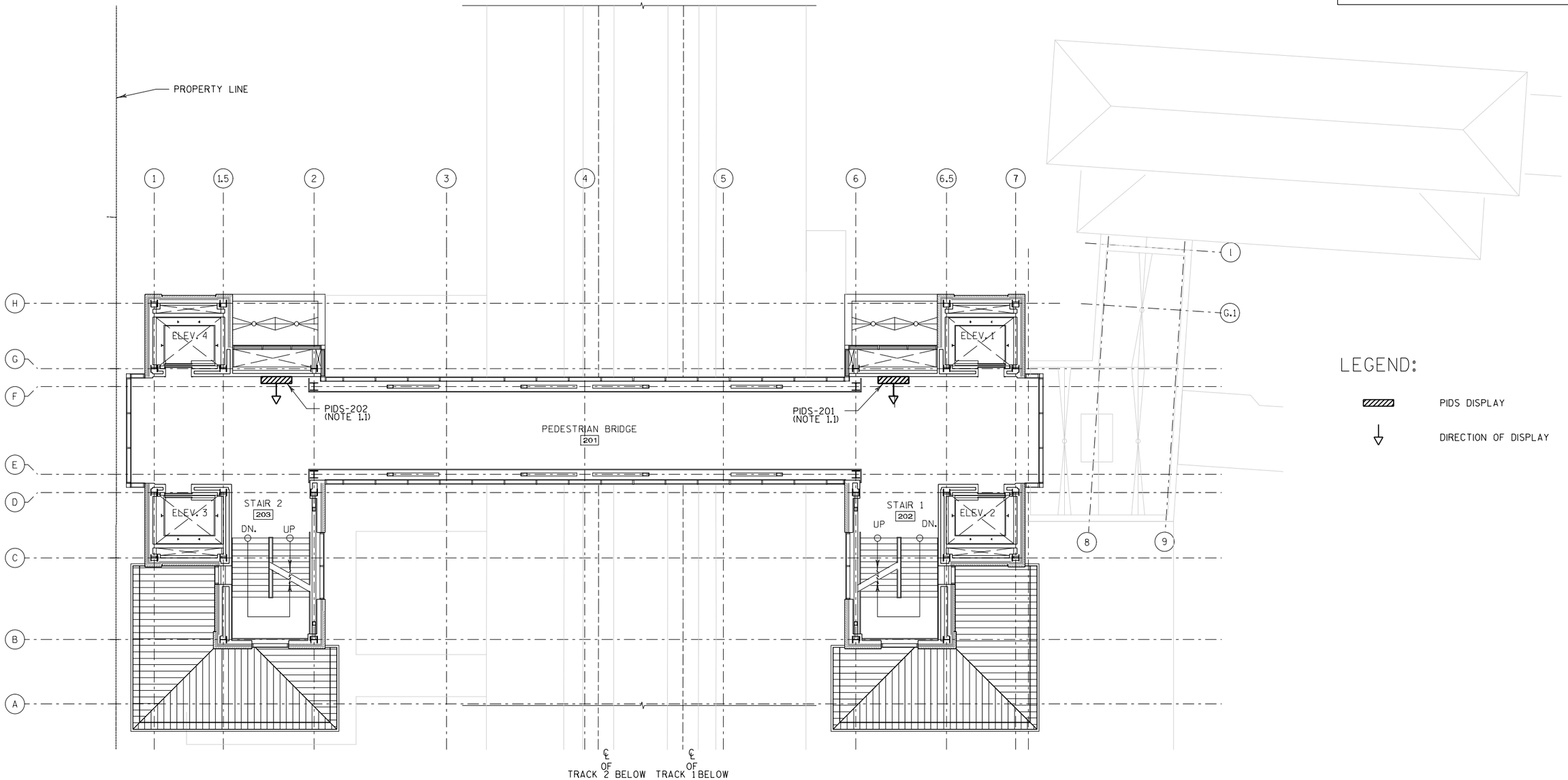
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PRE_274

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8

STATE PROJECT NUMBER

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LEGEND:

PIDS DISPLAY

DIRECTION OF DISPLAY

1 / T-203 SECOND FLOOR PIDS PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

GENERAL NOTES:

1. INTERIOR PIDS DISPLAY LOCATIONS:

   1.1 FURNISH AND INSTALL TWO (2) E1155-11-TM LCD AS SHOWN.

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SECOND FLOOR PIDS PLAN

SHEET T-203

PRE_275

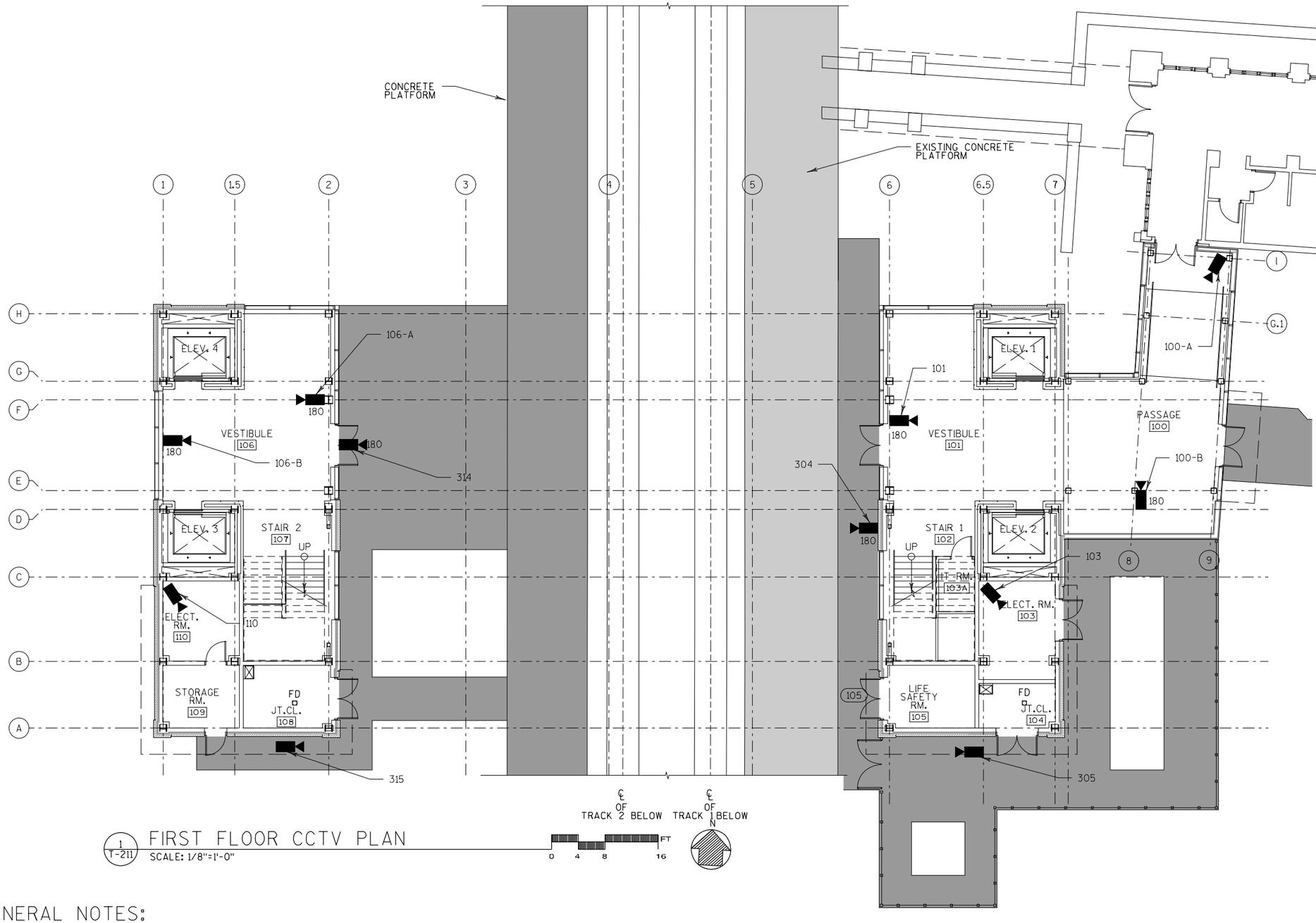
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BATCH PRINT SHEET CSD OF NSD
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PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
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1 / T-211 FIRST FLOOR CCTV PLAN
SCALE: 1/8"=1'-0"

LEGEND:

- CCTV CAMERA (FIXED)
- 180 — CCTV CAMERA (180 DEGREE VIEW)
- 360 — CCTV CAMERA 360 DEGREE VIEW)

GENERAL NOTES:

1. NEW CAMERAS SHALL BE AXIS Q6055-E PTZ OR APPROVED EQUAL.
2. INTERIOR CCTV CAMERA LOCATIONS:
   - 2.1 MOUNT CAMERA TO WALL LOCATION AS INDICATED. FINAL LOCATION SHALL BE DETERMINED IN FIELD SURVEY.
3. EXTERIOR CCTV CAMERA LOCATIONS:
   - 3.1 MOUNT CAMERA TO WALL LOCATION AS INDICATED. FINAL LOCATION SHALL BE DETERMINED IN FIELD SURVEY.
   - 3.2 THREE CAMERAS ON THE EXISTING PLATFORM (NORTH, MIDDLE, AND SOUTH) SHALL BE INCORPORATED INTO THE DESIGN.
   - 3.3 THREE CAMERAS SHALL BE INSTALLED ON THE NEW PLATFORM. THE NEW CAMERAS SHALL MIRROR THE LAYOUT OF THE EXISTING PLATFORM.

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COMMUNICATIONS

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FIRST FLOOR CCTV PLAN

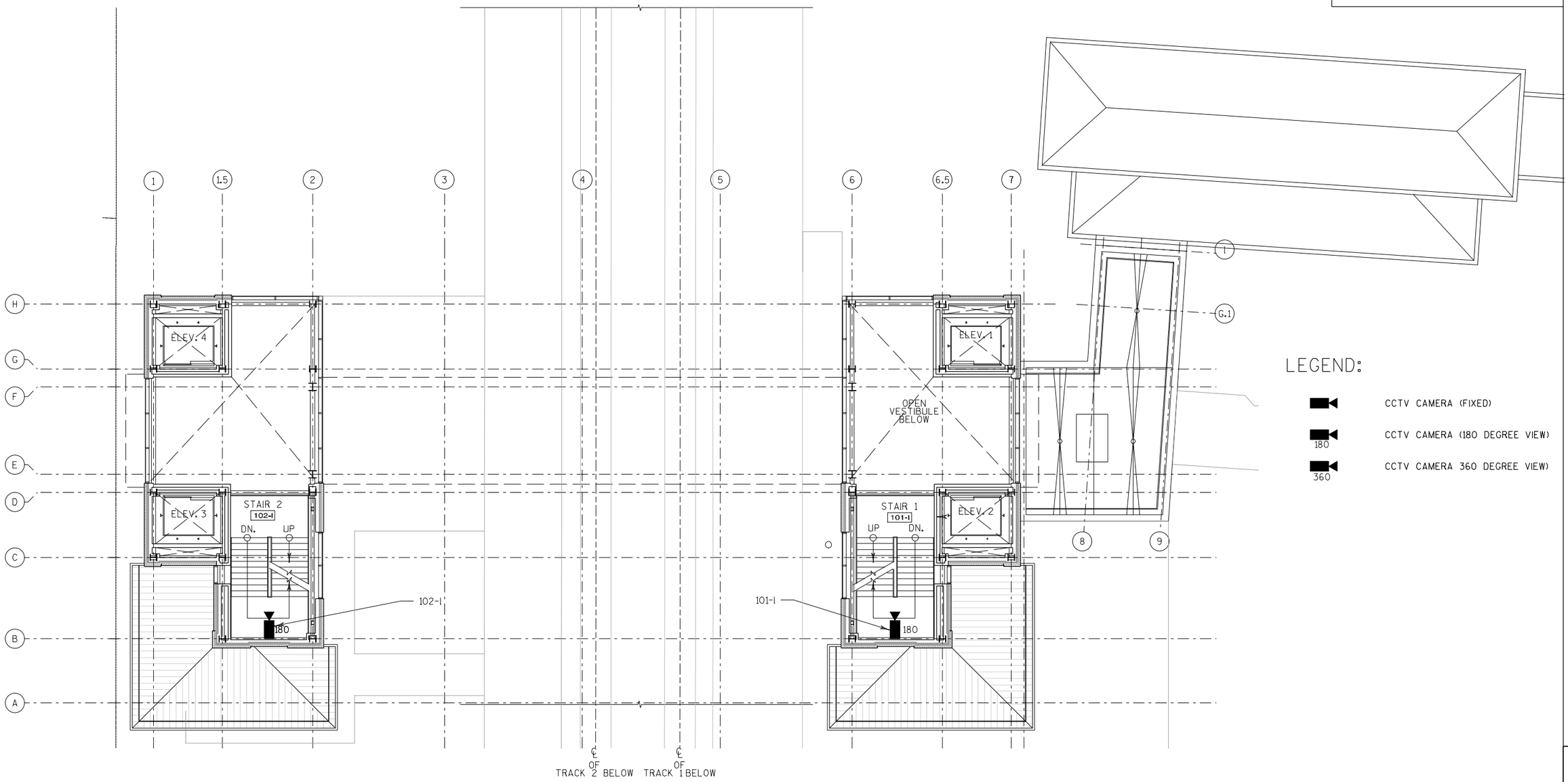
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PRE_276

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BATCH PRINT SHEET CSD OF NSD
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PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

STATE PROJECT NUMBER
1000-57-05



LEGEND:

- CCTV CAMERA (FIXED)
- 180 — CCTV CAMERA (180 DEGREE VIEW)
- 360 — CCTV CAMERA 360 DEGREE VIEW)

1 / T-212 INTERMEDIATE LEVEL CCTV PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

GENERAL NOTES:

1. FOR CAMERA MOUNTING DETAILS, SEE DRAWING T-XXX.
2. INTERIOR CCTV CAMERA LOCATIONS:

   2.1 MOUNT CAMERA TO WALL LOCATION AS INDICATED. FINAL LOCATION SHALL BE DETERMINED IN FIELD SURVEY.
3. NEW CAMERAS SHALL BE AXIS Q6055-E PTZ OR APPROVED EQUAL.

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STATE OF WISCONSIN
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COMMUNICATIONS

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INTERMEDIATE LEVEL CCTV PLAN

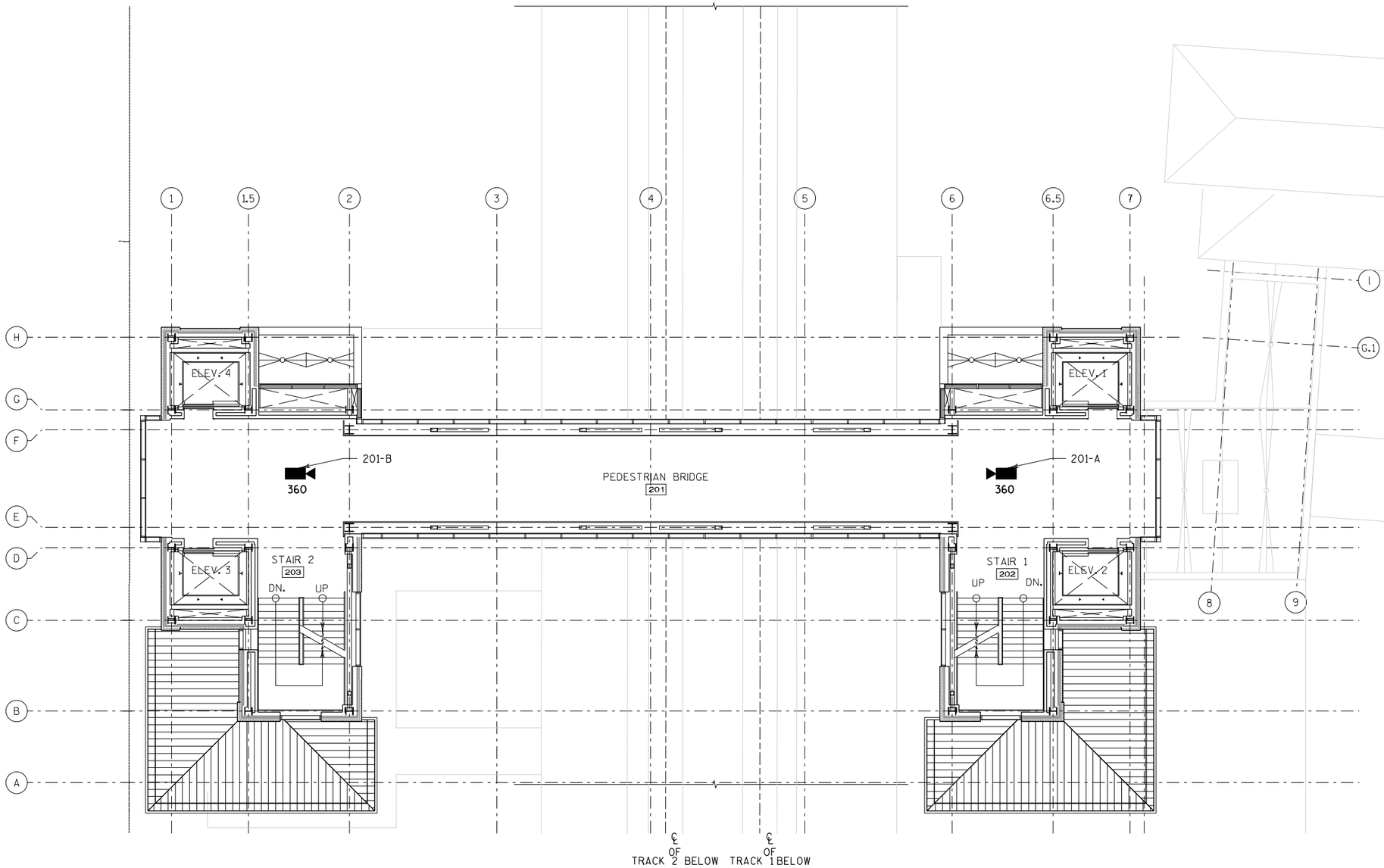
SHEET T-212

PRE_277

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8

STATE PROJECT NUMBER
1000-57-05



LEGEND:

- CCTV CAMERA (FIXED)
- 180 — CCTV CAMERA (180 DEGREE VIEW)
- 360 — CCTV CAMERA 360 DEGREE VIEW)

1 / T-213 SECOND FLOOR CCTV PLAN

SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

GENERAL NOTES:

1. FOR CAMERA MOUNTING DETAILS, SEE DRAWING T-XXX.
2. INTERIOR CCTV CAMERA LOCATIONS:

   2.1 MOUNT CAMERA TO WALL LOCATION AS INDICATED. FINAL LOCATION SHALL BE DETERMINED IN FIELD SURVEY.
3. NEW CAMERAS SHALL BE AXIS Q6055-E PTZ OR APPROVED EQUAL.

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SECOND FLOOR CCTV PLAN

SHEET T-213

PRE_278

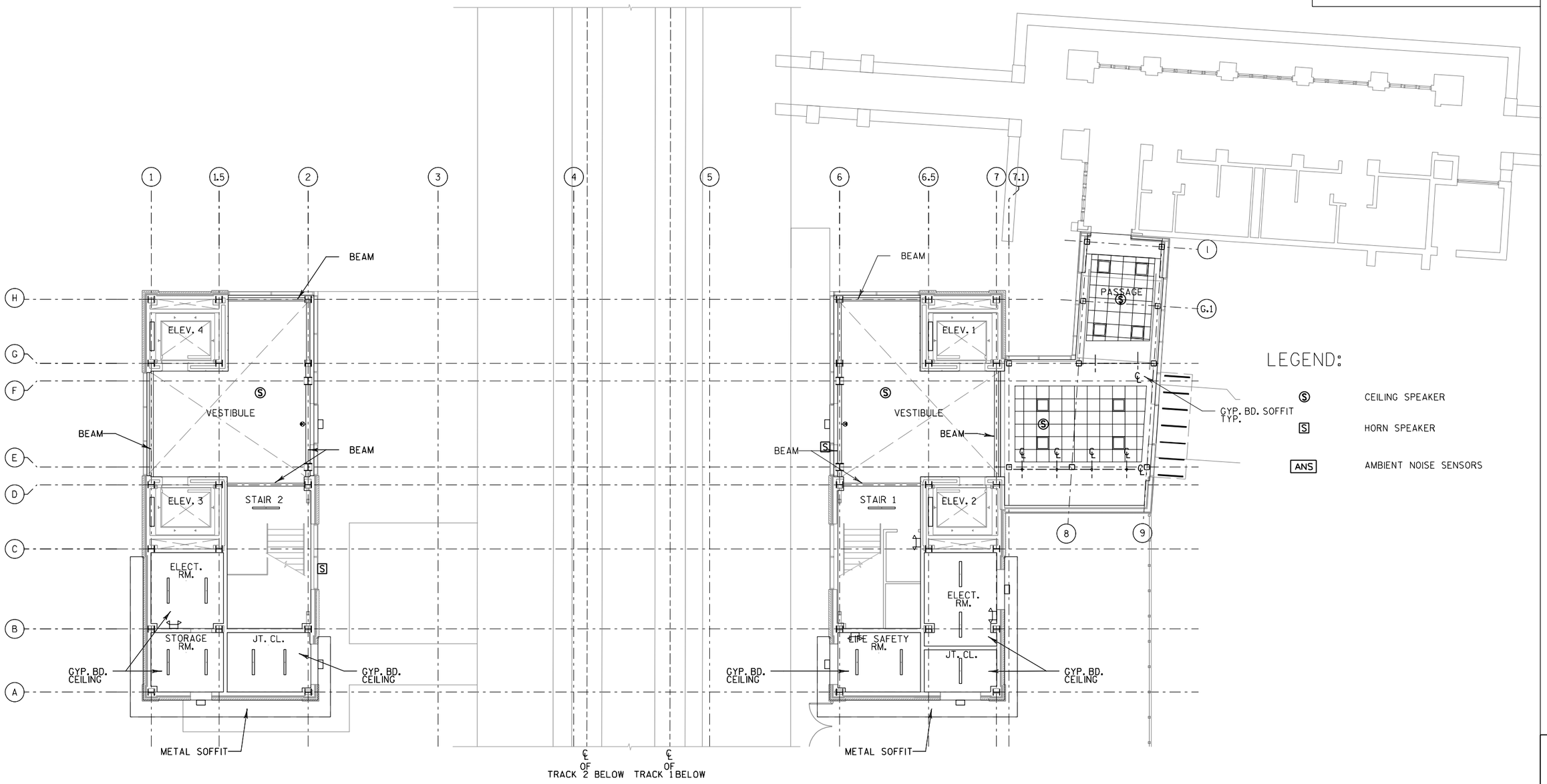
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plotingdate...$$ PLOT TIME: $$...plotingtime...$$

BATCH PRINT SHEET CSD OF NSD
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PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile....$$
PLOT DATE: $$...plotingdate...$$ PLOT TIME: $$...plotingtime...$$

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LEGEND:

Ⓢ	CEILING SPEAKER
[S]	HORN SPEAKER
ANS	AMBIENT NOISE SENSORS

1 / T-221 FIRST FLOOR PA PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

GENERAL NOTES:

1. FURNISH AND INSTALL FOUR (4) INTERIOR CEILING SPEAKERS AND TWO (2) EXTERIOR HORN SPEAKERS.
2. FURNISH AND INSTALL TWO (2) AMBIENT NOISE SENSORS AS SHOWN. SENORS TO BE INSTALLED ON CANOPY.

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FIRST FLOOR PA PLAN

SHEET T-221

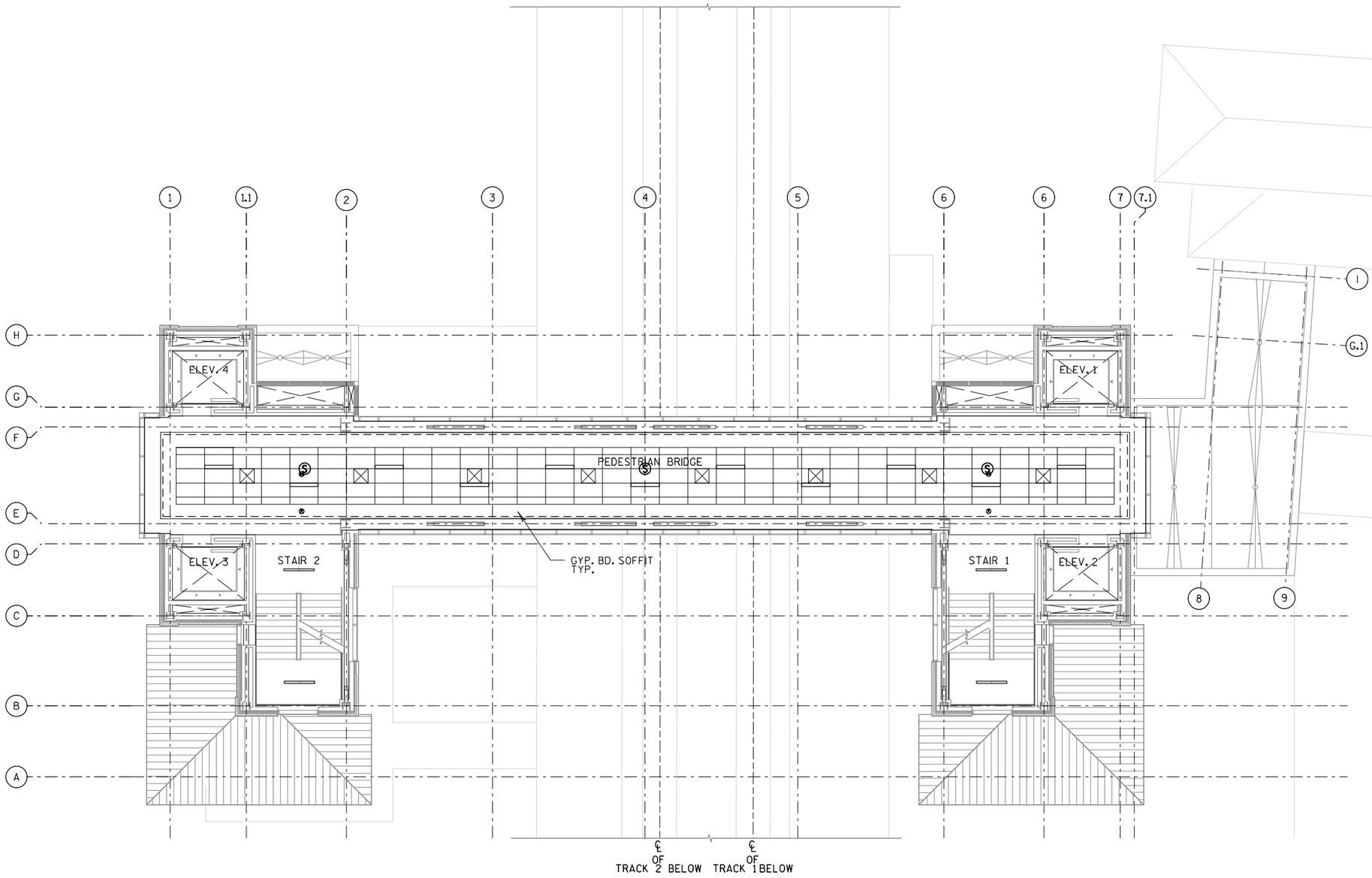
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BATCH PRINT SHEET CSD OF NSD
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PEN TABLE: $$..pentable..$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$..plottingdate..$$ PLOT TIME: $$..plottingtime..$$

STATE PROJECT NUMBER
1000-57-05



LEGEND:

Ⓢ CEILING SPEAKER

Ⓢ HORN SPEAKER

1/T-223 SECOND FLOOR PA PLAN
SCALE: 1/8"=1'-0"

0 4 8 16 FT

N

GENERAL NOTES:

1. FURNISH AND INSTALL FOUR (4) INTERIOR CEILING SPEAKERS AS SHOWN.

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SECOND FLOOR PA PLAN

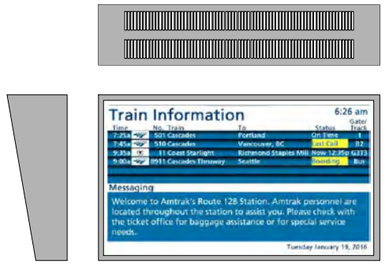
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PRE_280

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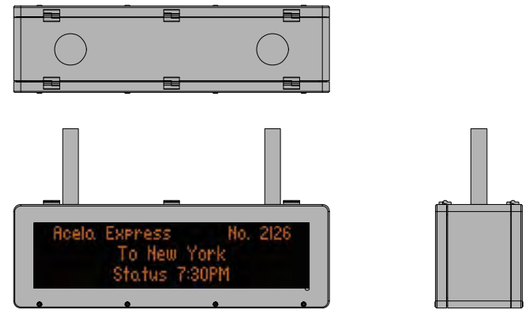
BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$...designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$



E1148-11-TM - TRAIN INFORMATION/MESSAGING LED DISPLAY WALL-MOUNTED (HIGH)

1 / T-701 SCALE: 1/8"=1'-0"

0 4 8 16 FT



E2448-11-TM - TRAIN INFORMATION/MESSAGING LED DISPLAY CANOPY-MOUNTED

T-701 SCALE: 1/8"=1'-0"

0 4 8 16 FT

GENERAL NOTES

1. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MOUNTING HEIGHT AND DETAILS.
2. GRAPHICS SHOWN ARE SAMPLES TO SHOW INTENDED SCREEN USE ONLY AND DO NOT NECESSARILY REPRESENT FINAL GRAPHICS.
3. USE MANUFACTURER RECOMMENDED MOUNTING BRACKET/HARDWARE TO ATTACH DISPLAY TO WALL.
4. POWER AND COMMUNICATIONS WIRING SHALL BE CONCEALED INSIDE STRUCTURE SYSTEM.

ELECTRONIC SIGNAGE: "E" SIGN TYPES							
SIGN TYPE	USE/DESCRIPTION	REFERENCE	CONTENT	DISPLAY FORMAT	MOUNTING	CHARACTER HEIGHT	COMMUNICATION CABLE REQUIREMENTS
E1148-11-TM	TRAIN INFORMATION AND VARIABLE MESSAGING (ONE MONITOR)	AMTRAK SIGNAGE STANDARDS CHAPTER 8.32	SPLIT SCREEN WITH INFORMATION LIST FOR MULTIPLE DEPARTURES AND ARRIVALS MIXED IN TIME ORDER ON A DEDICATED TRAIN LIST SCREEN, PLUS A VISUAL MESSAGING SECTION	LANDSCAPE	STRUCTURE-MOUNTED	2" PER LINE	3-CATEGORY 6
E2448-12-T1	NEXT TRAIN INFORMATION AND VARIABLE MESSAGING	AMTRAK NATIONAL PIDS DESIGN GUIDE	LED DISPLAY ALTERNATING BETWEEN NEXT TRAIN ARRIVAL INFORMATION (WHEN REQUIRED) AND VISUAL MESSAGING	LANDSCAPE	CANOPY HUNG	2.1" HIGH SANS SERIF FONT (7 LED) PER LINE. 24 CHARACTERS PER LINE, 3 LINES PER DISPLAY	2-CATEGORY 6 OR FIBER OPTIC CABLE

EQUIPMENT	MANUFACTURER	MODEL NUMBER	DESCRIPTION
TRAIN INFORMATION AND VISUAL MESSAGING			
48" LCD DISPLAY	NEC	P484	DEPATURE/MESSAGING DISPLAY (SINGLE-SIDED)
NEXT TRAIN INFORMATION AND VISUAL MESSAGING			
LED MATRIX DISPLAY	DAKTRONICS	AF-6700 32X144-8-A-DF	E2548-11 TRAIN INFORMATION DISPLAY (DOUBLE-SIDED)
SPEAKERS			
INTERIOR SPEAKERS	JBL	CONTROL 24C	CEILING SPEAKER
EXTERIOR SPEAKERS	JBL	CSS-H30	PAGING HORN
AMBIENT NOISE SENSOR			
AMBIENT NOISE SENSOR	AKG	PZM-11LLWR	OUTDOOR AMBIENT NOISE SENSOR
PIDS SERVER CABINET			
ENCLOSURE	MIDDLE ATLANTIC	WR-24-32	WR ROLL-OUT ROTATING RACK 24RU X 32" DEEP
COOLING FAN	MIDDLE ATLANTIC	MW-10FT-FC	10-INCH FAN UNIT
FAN GIRLL COVER	MIDDLE ATLANTIC	VMK-S42	MAGNETIC GRILL COVER
UPS	APC	SUA1500RM2U	1500 VA USB & SERIAL RM 2U 120V
DIGITAL SIGNAL PROCESSOR	BSS	BLU-100	SIGNAL PROCESSOR
AMPLIFIER	BSS	DCI 2 | 300N	2 CHANNEL 300W AMPLIFIER
SERVER	HP	RP5810	RACKMOUNT SERVER
KVM	TRIPP-LITE	B040-008-17	17" VGA CONSOLE KVM SWITCH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS

DRAWN BY MC | PLANS CK'D. DK

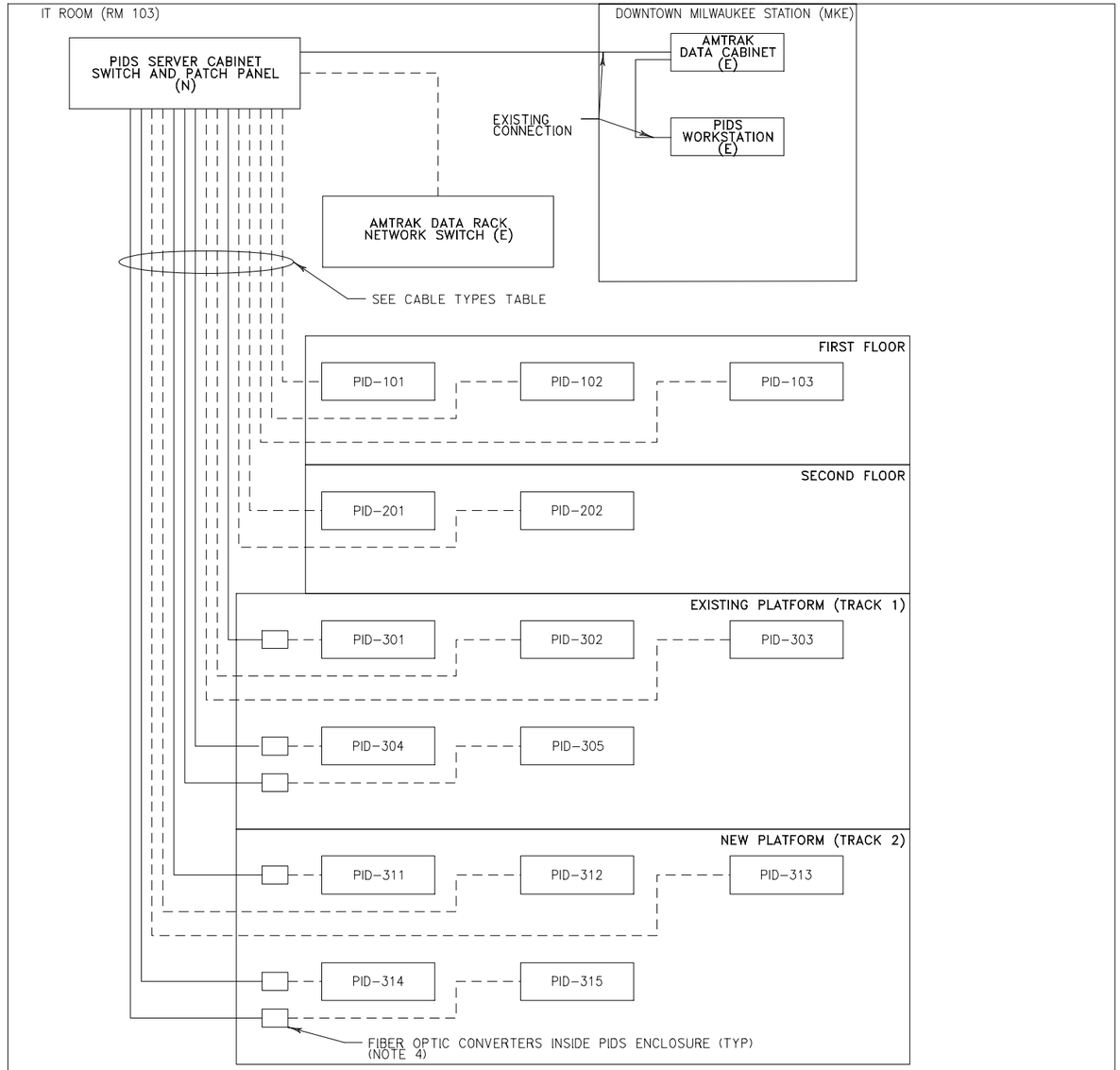
PIDS SCHEDULE AND DETAILS

SHEET T-701

PRE_281

8

BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$ PLOT TIME: $$...plottingtime...$$
PLOT DATE: $$...plottingdate...$$



CABLE TYPES

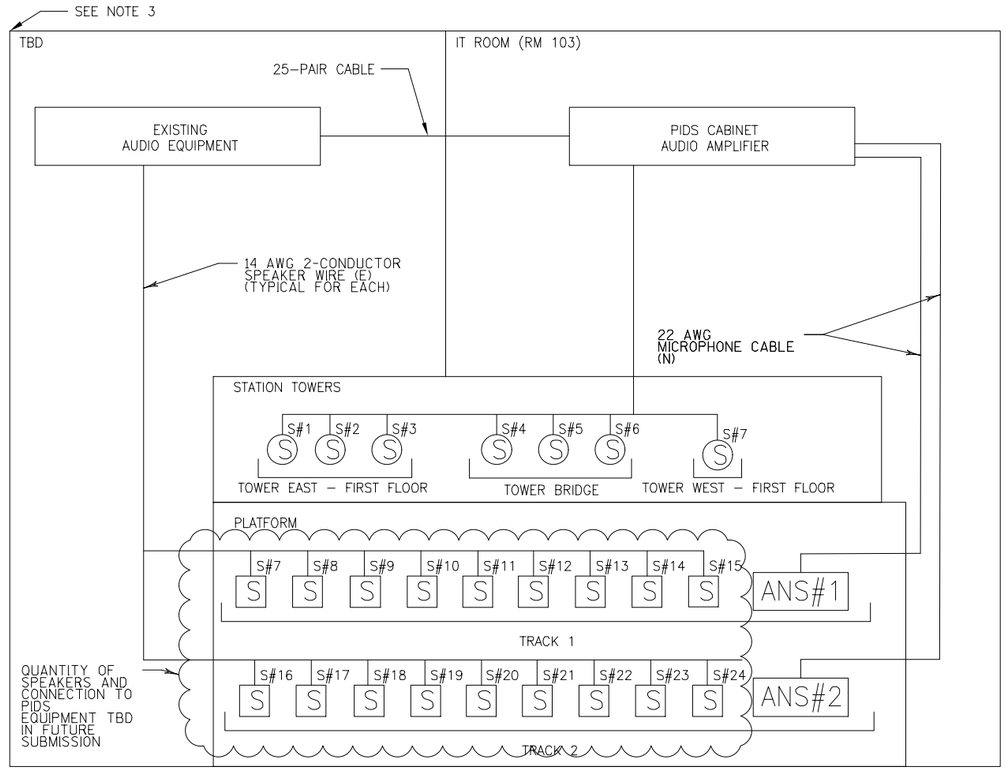
CABLE TYPE	LINE TYPE	DESCRIPTION
CAT-6	- - - - - -	THREE (3) CAT-6 PER DISPLAY
FIBER	———	TWO (2) SINGLE MODE FIBER PER DISPLAY

1 T-711 VIDEO BLOCK DIAGRAM
SCALE: NTS

GENERAL NOTES:

1. EXISTING SPEAKER WIRES ARE TO BE DISCONNECTED FROM THE EXISTING AUDIO SYSTEM, TERMINATED AT THE SAME POINT IN THE BAGGAGE SERVICE ROOM, AND BE SPLICED WITH THE 25-PAIR FOR CONNECTION TO THE NEW PIDS AUDIO EQUIPMENT.
2. TERMINATION POINTS OF FIBER SHALL BE 24-STRANDED FIBER FROM THE AMTRAK DATA CABINET. CONTRACTOR SHALL COORDINATE WITH AMTRAK FOR FINAL RESPONSIBILITY.
3. ALL SPEAKERS, WIRING, AND CONDUIT SHOWN ARE EXISTING AND SHALL REMAIN FOR INTEGRATION INTO NEW PIDS AUDIO SYSTEM. ANY SPEAKER TESTED BY THE CONTRACTOR TO BE NON FUNCTIONAL, SAID SPEAKER SHALL BE REPLACED.
4. FIBER OPTIC MEDIA CONVERTERS SHALL BE MOUNTED INSIDE EACH PIDS DISPLAY ENCLOSURE.

STATE PROJECT NUMBER
1000-57-05



2 T-711 AUDIO BLOCK DIAGRAM
SCALE: NTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS

DRAWN BY	MC	PLANS CK'D.	TS

PIDS BLOCK DIAGRAM

SHEET T-711

PRE_282

8

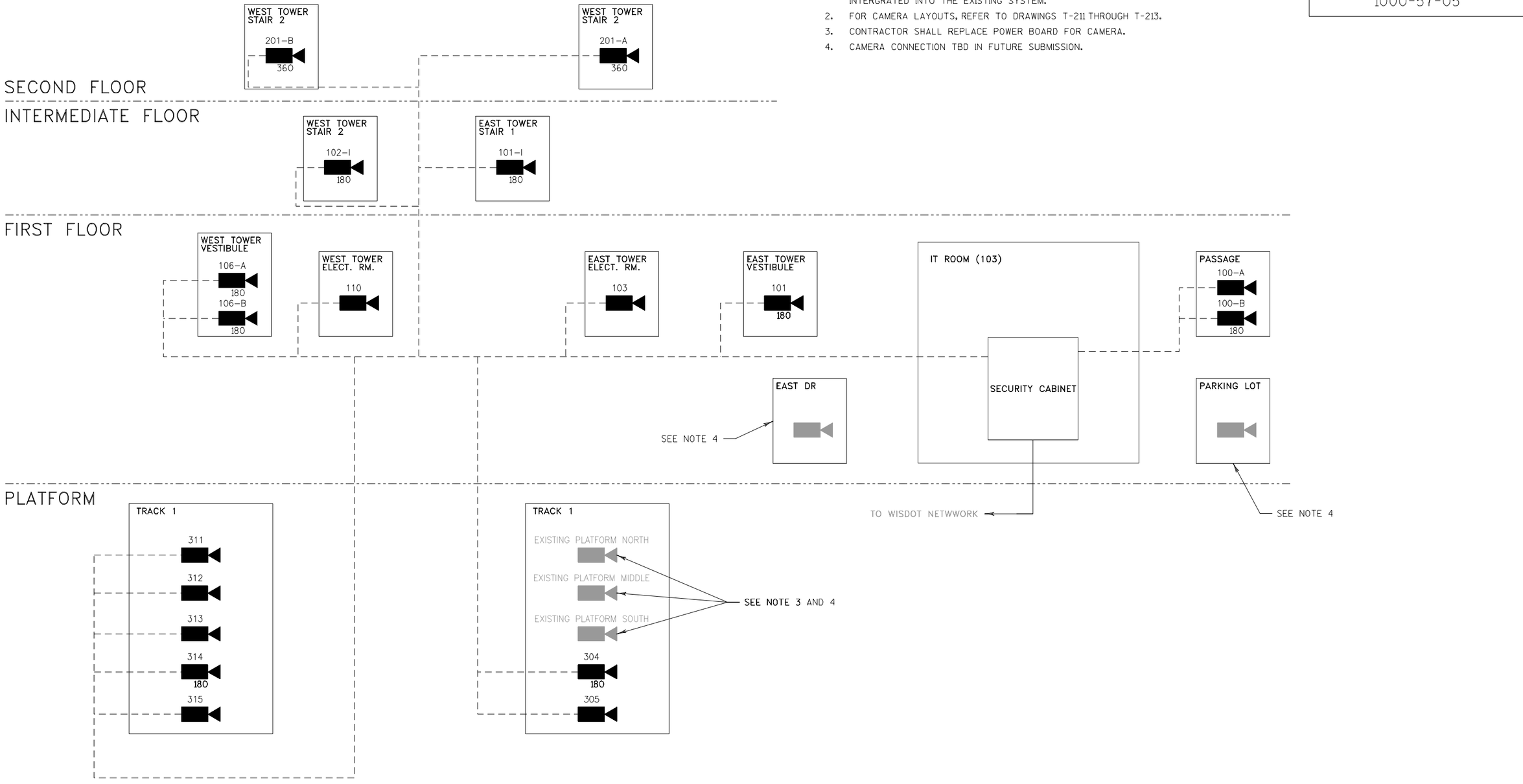
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BATCH PRINT SHEET CSD OF NSD
PRINTER DRIVER: $$...printerdriver...$$
PEN TABLE: $$...pentable...$$
FILE NAME: $$....designfile...$$
PLOT DATE: $$...plottingdate...$$ PLOT TIME: $$...plottingtime...$$

GENERAL NOTES:

1. ALL NEW CAMERAS AND WIRING SHALL BE FURNISH AND INSTALLED BY CONTRACTOR AND BE INTERGRATED INTO THE EXISTING SYSTEM.
2. FOR CAMERA LAYOUTS, REFER TO DRAWINGS T-211 THROUGH T-213.
3. CONTRACTOR SHALL REPLACE POWER BOARD FOR CAMERA.
4. CAMERA CONNECTION TBD IN FUTURE SUBMISSION.

STATE PROJECT NUMBER
1000-57-05



1 T-712 VIDEO BLOCK DIAGRAM
SCALE: NTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

COMMUNICATIONS

DRAWN BY	MC	PLANS CK'D.	TS

CCTV BLOCK DIAGRAM

SHEET T-712
PRE_283

8

8

STATE PROJECT NUMBER
1000-57-05

FIRE ALARM SYMBOLS

(SD) ELEV	SMOKE DETECTOR ELEV INDICATES ELEVATOR RECALL
(HD) ELEV	HEAT DETECTOR ELEV INDICATES ELEVATOR RECALL
BR	RECEIVER FOR BEAM SMOKE DETECTOR
BD ELEV	TRANSMITTER FOR BEAM SMOKE DETECTOR. ELEV INDICATES ELEVATOR RECALL.
(DD)	DUCT SMOKE DETECTOR
P	MANUAL PULL STATION
15cd ▽ F	HORN/STROBE WITH CANDELA RATING
15cd ▽ F L	STROBE ONLY WITH CANDELA RATING
FACP	FIRE ALARM CONTROL PANEL
RA	FIRE ALARM REMOTE ANNUNCIATOR
DH	MAGNETIC DOOR HOLD
TS	TAMPER SWITCH
FS	FLOW SWITCH
ADR	ADDRESSABLE RELAY MODULE
ADM	ADDRESSABLE MONITOR MODULE

ABBREVIATIONS

ABBR.	DESCRIPTION
ADDR	ADDRESSABLE
ADR	ADDRESSABLE RELAY MODULE
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CL	CLOSET
CM	CONSTRUCTION MANAGEMENT
COND	CONDUCTOR
EC	ELECTRICAL CONTRACTOR
DWG	DRAWING
ELEC	ELECTRICAL
EMR	ELEVATOR MACHINE ROOM
EX	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FCS	FIRE COMMAND STATION
FL	FLOOR
FT	FEET
MM	ADDRESSABLE MONITOR MODULE
PR	PAIR
TP	TWISTED PAIR
TSP	TWISTED SHIELDED PAIR
WP	WEATHERPROOF

GENERAL NOTES

1. ALL ROUTING OF CABLES TO FACP SHALL BE APPROVED BY BUILDING MANAGER.
2. COORDINATE EXACT LOCATION OF ALL FIRE ALARM SYSTEM DEVICES (SPEAKERS, STROBE LIGHTS, ETC.) WITH ARCHITECT AND OTHER TRADES PRIOR TO INSTALLATION. REFER TO FLOOR PLANS FOR NUMBER OF DEVICES.
3. WALL MOUNTED STROBES SHALL HAVE NO OTHER APPURTENANCES WITHIN 5 FEET OF THE STROBE. THEY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER.
4. WHERE DEMOLITION IS TO TAKE PLACE IN THE AREA OF THE BUILDING, WHERE FIRE SAFETY EQUIPMENT SUCH AS ALARMS, SPEAKERS, SMOKE DETECTORS, FLOOR WARDEN STATIONS, ETC. ARE LOCATED, BUILDING MANAGEMENT MUST BE NOTIFIED FIVE (5) WORKING DAYS PRIOR TO THE START OF DEMOLITION SO THE EQUIPMENT MAY BE PROTECTED OR REMOVED.
5. THIS BUILDING MUST REMAIN IN A STATE OF SAFE CONDITION WITH REGARD TO FIRE SAFETY PERSONNEL WORKING ON THE BUILDING. ALL FIRE STAIRS, ALARMS, SPEAKERS, ETC., MUST REMAIN ACCESSIBLE AND OPERABLE AT ALL TIMES. CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE TO EXISTING BUILDING FIRE ALARM SYSTEM.
6. ANY EXISTING FIRE SAFETY EQUIPMENT AND ASSOCIATED CONDUIT AND WIRING SHALL NOT BE HARMED DURING DEMOLITION AND/OR CONSTRUCTION AND SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE.
7. PROTECT EXISTING FIRE ALARM SYSTEM DEVICES AND WIRING DURING CONSTRUCTION. ANY DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING FIRE WATCH AS REQUIRED UNTIL DAMAGE IS REPAIRED TO THE OWNER'S SATISFACTION.

GENERAL NOTES (CONT.)

8. ALL CEILING MOUNTED DEVICES (SMOKE DETECTORS, SPEAKERS, ETC.) SHALL BE REMOVED PRIOR TO DEMOLITION AND STORED AND PROTECTED UNTIL THEY CAN BE REINSTALLED IN THE LOCATIONS SHOWN ON PLANS.
9. PROVIDE VOLTAGE DROP AND BATTERY CAPACITY CALCULATIONS BY A REGISTERED PROFESSIONAL ENGINEER.
10. THE FIRE ALARM RISER DIAGRAM SHOWN IS AN INDICATION OF THE WORK REQUIRED AND SHALL BE USED FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN A POINT-TO-POINT WIRING DIAGRAM FROM THE BUILDING FIRE ALARM MAINTENANCE CONTRACTOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
11. THE OPERATION OF THE FIRE ALARM INSTALLATION DOES NOT CONSTITUTE AN ACCEPTANCE OF THE WORK BY THE OWNER. FINAL ACCEPTANCE IS TO BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT THE WORK FULFILLS THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS AND HAS FURNISHED ALL REQUIRED CERTIFICATES OF APPROVAL FROM THE STATE AUTHORITIES, MUNICIPAL AUTHORITIES AND UL.
12. THE ABOVE DESCRIBED WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.

FIRE ALARM INPUT/OUTPUT MATRIX

EVENT (DEVICE ACTIVATED)	CONTROLLED RESPONSE: TRANSMIT ALARM TO CENTRAL SUPERVISING STATION	ACTIVATE HORNS	ACTIVATE VISUAL ALARM	INDICATE TIME & EVENT ON SYSTEM PRINTER	RELEASE HOLD OPEN FIRE AND SMOKE DOORS	RELEASE SECURITY DOOR LOCKS	SHUT DOWN AHU SUPPLY AND RETURN FANS	CAPTURE ALL ELEVATORS ON ALARM FLOOR & RETURN TO APPROVED LEVEL	CAPTURE ALL ELEVATORS & RETURN TO ALTERNATE LEVEL	TRANSMIT TROUBLE SIGNAL TO FACILITY CENTRAL CONTROL DEVICES
"GENERAL"										
SMOKE DETECTOR	X	X	X	X	X	X				
HEAT DETECTOR	X	X	X	X	X	X				
MANUAL PULL STATION	X	X	X	X	X	X				
LOCAL AUTOMATIC DETECTORS	X	X	X	X	X	X				
"AIR HANDLING EQUIPMENT"										
AHU SUPPLY DUCT TYPE SMOKE DETECTOR	X	X	X	X	X	X	X			
AHU RETURN DUCT TYPE SMOKE DETECTOR	X	X	X	X	X	X	X			
"ELEVATOR EQUIPMENT"										
ELEVATOR LOBBY SMOKE DETECTOR	X	X	X	X	X	X		X		
ELEVATOR SHAFT SMOKE DETECTOR	X	X	X	X	X	X		X		
ELEVATOR MACHINE ROOM SMOKE DETECTOR	X	X	X	X	X	X		X		
GRADE LEVEL ELEVATOR LOBBY SMOKE DETECTOR	X	X	X	X	X	X			X	
ELEVATOR SHAFT HEAT DETECTOR	X	X	X	X	X	X				
ELEVATOR MACHINE ROOM HEAT DETECTOR	X	X	X	X	X	X				
"STAIR DETECTION"										
STAIR SMOKE DETECTOR	X	X	X	X	X	X				
"SUPERVISORY OPERATIONS"				X						
CENTRAL CONTROL EQUIPMENT DOOR OPEN				X						X
FCC DRILL SWITCH				X						X
ELEVATOR CONTACTOR LOSS OF VOLTAGE				X						X
SUPERVISED DEVICE/WIRING DISARRANGEMENT				X						X

SEQUENCE OF OPERATION

ACTIVATION OF A FIRE ALARM INITIATING DEVICE (MANUAL PULL STATION, SMOKE DETECTOR, HEAT DETECTOR, ETC.) SHALL PROVIDE THE FOLLOWING OPERATIONS AS LISTED AND AS DEFINED BY CITY LOCAL LAW BUT NOT LIMITED TO THE FOLLOWING:

A. TRANSMIT FIRE ALARM SIGNAL TO BUILDING FIRE ALARM SYSTEM.
B. AN INITIATING SIGNAL/CIRCUITRY FROM BUILDING FIRE ALARM SYSTEM SHALL BE TRANSMITTED TO THE STROBE PANEL TO ACTIVATE THE STROBE LIGHTS.
C. THE STROBE PANEL SHALL BE ACTIVATED BY THE INITIATING CIRCUITS OR SIGNAL FROM THE BUILDING FIRE ALARM SYSTEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY PH | PLANS CK'D. FC

FIRE ALARM SYMBOLS, ABBREVIATIONS, MATRIX, AND GENERAL NOTES

SHEET FA-001

PRE_284

SCALE = NONE

8

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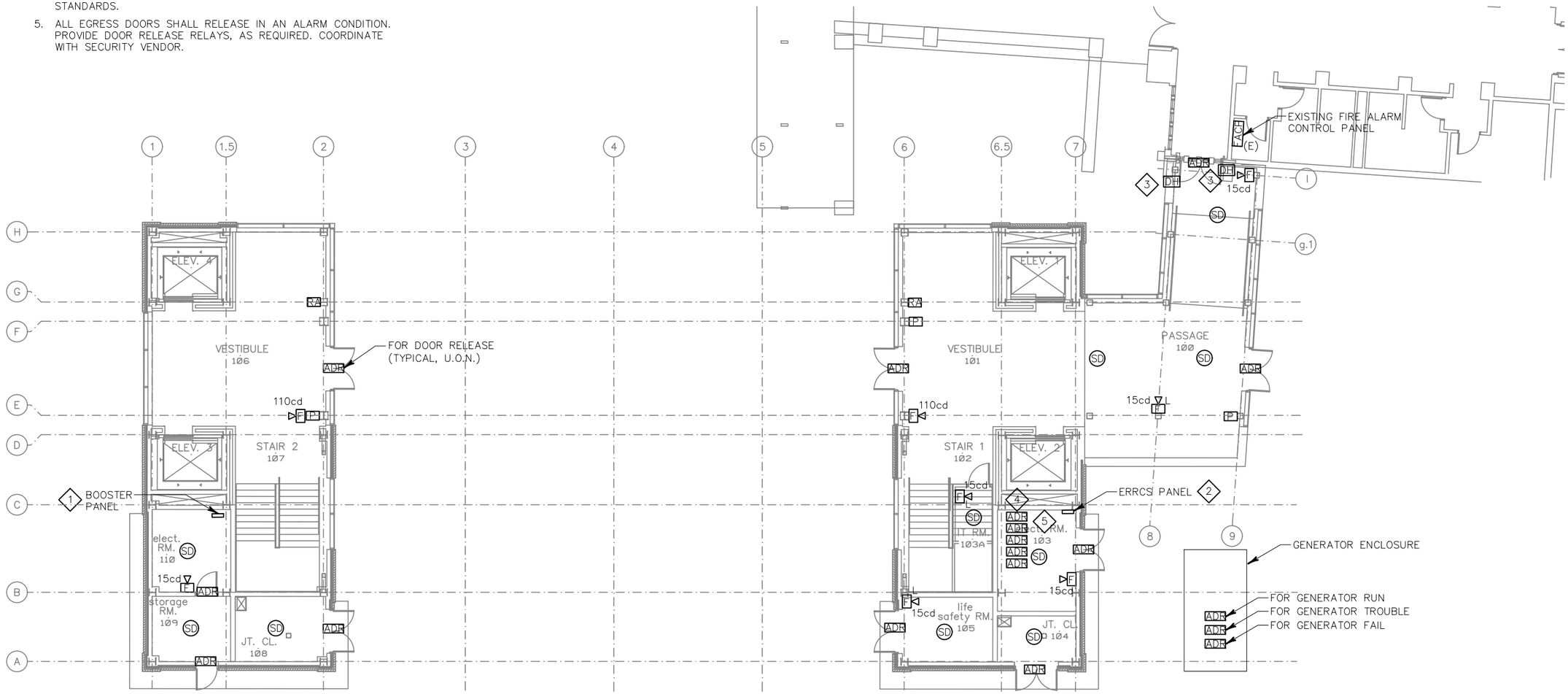
STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – FIRE ALARM PLAN

1. REFER TO DRAWING FA-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. CONFIRM STROBES AND SPEAKERS FINISHES WITH ARCHITECT, PRIOR TO ORDERING.
3. FIRE ALARM SYSTEM EXPANSION SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM EQUIPMENT (EDWARDS EST2) AND BE UL LISTED.
4. THE FIRE ALARM SYSTEM DRAWING IS SCHEMATIC IN NATURE AND SHOWS A MINIMAL QUANTITY OF DEVICES. FIRE ALARM SUBCONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH SPECIFICATIONS, CONTRACT DRAWINGS AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. LAYOUT TO BE COMPLIANT WITH APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED TO MAKE A FULLY FUNCTIONING FIRE ALARM SYSTEM UNDER ALL APPLICABLE CODES AND STANDARDS.
5. ALL EGRESS DOORS SHALL RELEASE IN AN ALARM CONDITION. PROVIDE DOOR RELEASE RELAYS, AS REQUIRED. COORDINATE WITH SECURITY VENDOR.

KEYED NOTES – FIRE ALARM PLAN

NO.	DESCRIPTION
1	FURNISH AND INSTALL FIRE ALARM BOOSTER PANEL.
2	FURNISH AND INSTALL EMERGENCY RESPONDER RADIO COVERAGE SYSTEM IN ACCORDANCE WITH IFC SECTION 510. PROVIDE SIGNAL BOOSTER COMPONENTS AND MONITORING PANELS FOR COVERAGE OF BUILDINGS AND TOWERS. COORDINATE COMPONENT EXACT LOCATIONS WITH MANUFACTURER RECOMMENDATIONS.
3	DOOR HOLDS SHALL RELEASE IN EVENT OF FIRE CONDITION.
4	FIVE RELAYS ARE FOR ERRCS FAIL, TROUBLE, POWER LOSS, CHARGER TROUBLE, AND LOW BATTERY.
5	PROVIDE BASE TWO-WAY COMMUNICATION SYSTEM FOR AREAS OF REFUGE. PROVIDE BATTERY BACKUP WITH POWER SUPPLY MONITORING. SYSTEM SHALL CONNECT TO MONITORING COMPANY.



1 FA-100 FIRE ALARM FIRST FLOOR PLAN
SCALE: 1/16"=1'-0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY PH | PLANS CK'D. FC

SHEET FA-100

FIRE ALARM FIRST FLOOR PLAN

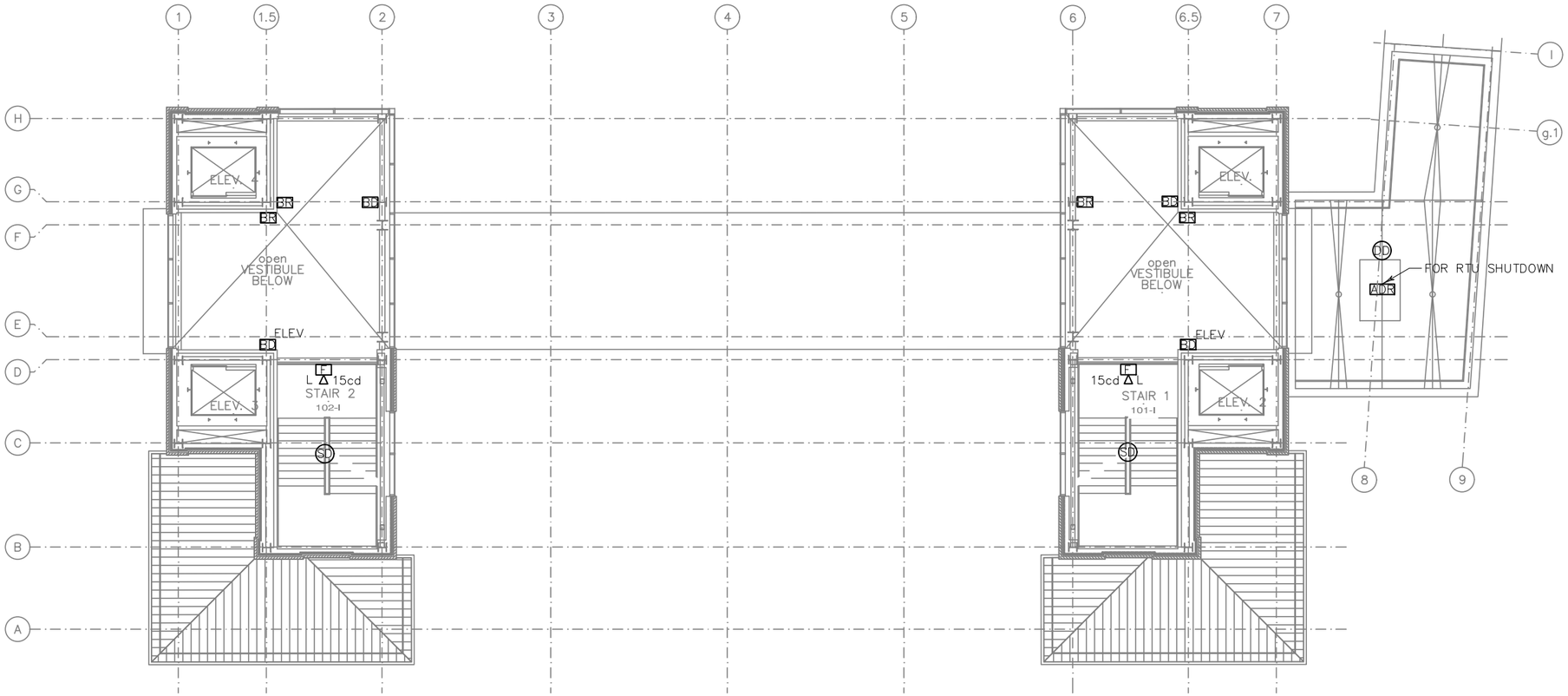
PRE_285

SCALE = AS NOTED

STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES – FIRE ALARM PLAN

1. REFER TO DRAWING FA-001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. CONFIRM STROBES AND SPEAKERS FINISHES WITH ARCHITECT, PRIOR TO ORDERING.
3. FIRE ALARM SYSTEM EXPANSION SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM EQUIPMENT AND BE UL LISTED APPROVED.
4. THE FIRE ALARM SYSTEM DRAWING IS SCHEMATIC IN NATURE AND SHOWS A MINIMAL QUANTITY OF DEVICES. FIRE ALARM SUBCONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH SPECIFICATIONS, CONTRACT DRAWINGS AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. LAYOUT TO BE COMPLIANT WITH APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED TO MAKE A FULLY FUNCTIONING FIRE ALARM SYSTEM UNDER ALL APPLICABLE CODES AND STANDARDS.
5. ALL EGRESS DOORS SHALL RELEASE IN AN ALARM CONDITION. PROVIDE DOOR RELEASE RELAYS, AS REQUIRED. COORDINATE WITH SECURITY VENDOR.



1 FA-101 FIRE ALARM INTERMEDIATE LEVEL PLAN
SCALE: 1/16"=1'-0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY	PH	PLANS CK'D.	FC

FIRE ALARM INTERMEDIATE LEVEL PLAN

SHEET FA-101

PRE_286

SCALE = AS NOTED

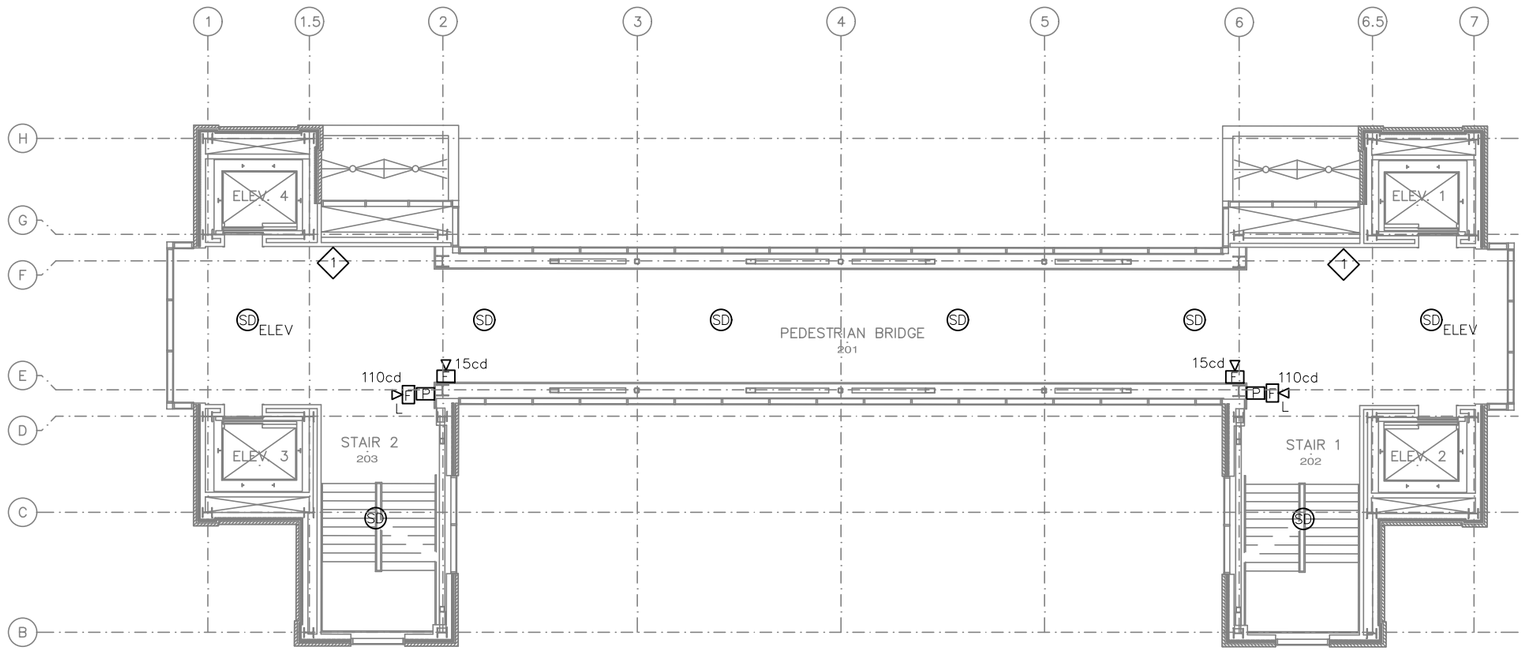
GENERAL NOTES – FIRE ALARM PLAN

1. REFER TO DRAWING FA–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. CONFIRM STROBES AND SPEAKERS FINISHES WITH ARCHITECT, PRIOR TO ORDERING.
3. FIRE ALARM SYSTEM EXPANSION SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM EQUIPMENT AND BE UL LISTED APPROVED.
4. THE FIRE ALARM SYSTEM DRAWING IS SCHEMATIC IN NATURE AND SHOWS A MINIMAL QUANTITY OF DEVICES. FIRE ALARM SUBCONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH SPECIFICATIONS, CONTRACT DRAWINGS AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. LAYOUT TO BE COMPLIANT WITH APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED TO MAKE A FULLY FUNCTIONING FIRE ALARM SYSTEM UNDER ALL APPLICABLE CODES AND STANDARDS.
5. ALL EGRESS DOORS SHALL RELEASE IN AN ALARM CONDITION. PROVIDE DOOR RELEASE RELAYS, AS REQUIRED. COORDINATE WITH SECURITY VENDOR.

KEYED NOTES – LIGHTING PLAN

NO.	DESCRIPTION
1	PROVIDE TWO–WAY VOICE COMMUNICATION CALL BOX FOR AREAS OF REFUGE.

STATE PROJECT NUMBER
1000–57–05



1 / FA–102 FIRE ALARM SECOND FLOOR PLAN
SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY PH | PLANS CK'D. SK

FIRE ALARM SECOND FLOOR PLAN

SHEET FA–102

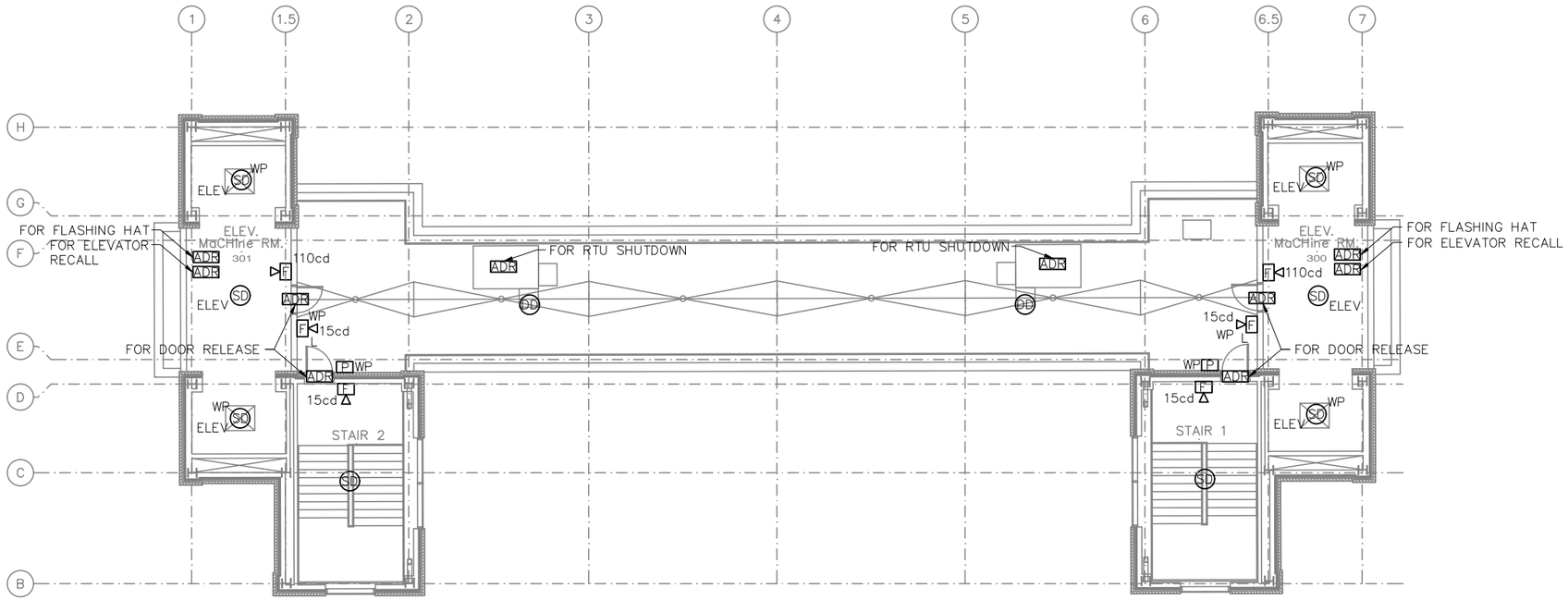
PRE_287

SCALE = AS NOTED

STATE PROJECT NUMBER
1000–57–05

GENERAL NOTES – FIRE ALARM PLAN

1. REFER TO DRAWING FA–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. CONFIRM STROBES AND SPEAKERS FINISHES WITH ARCHITECT, PRIOR TO ORDERING.
3. FIRE ALARM SYSTEM EXPANSION SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM EQUIPMENT AND BE UL LISTED APPROVED.
4. THE FIRE ALARM SYSTEM DRAWING IS SCHEMATIC IN NATURE AND SHOWS A MINIMAL QUANTITY OF DEVICES. FIRE ALARM SUBCONTRACTOR SHALL DETERMINE THE FINAL QUANTITY AND LOCATION OF ALL DEVICES IN ACCORDANCE WITH SPECIFICATIONS, CONTRACT DRAWINGS AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. LAYOUT TO BE COMPLIANT WITH APPLICABLE CODES AND STANDARDS. ADDITIONAL DEVICES SHALL BE PROVIDED TO MAKE A FULLY FUNCTIONING FIRE ALARM SYSTEM UNDER ALL APPLICABLE CODES AND STANDARDS.
5. ALL EGRESS DOORS SHALL RELEASE IN AN ALARM CONDITION. PROVIDE DOOR RELEASE RELAYS, AS REQUIRED. COORDINATE WITH SECURITY VENDOR.



1 FA–103 FIRE ALARM ROOF PLAN
SCALE: 1/16"=1'–0"

0 8 16 32 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY PH | PLANS CK'D. FC

SHEET FA–103

FIRE ALARM ROOF PLAN PRE_288

SCALE = AS NOTED

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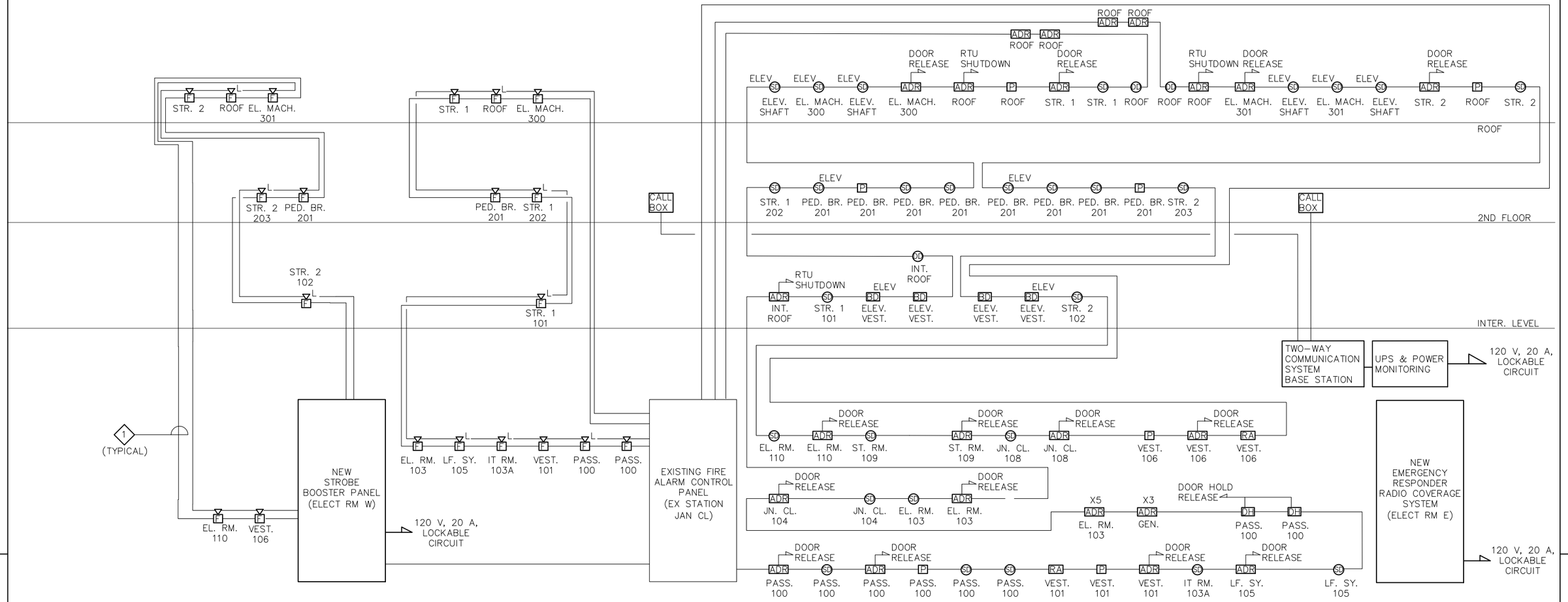
STATE PROJECT NUMBER
1000–57–05

GENERAL NOTES – FIRE ALARM PLAN

1. REFER TO DRAWING FA–001 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
2. FOR FIRE ALARM SYSTEM LAYOUT WITH CANDELA RATINGS (AND EXACT DEVICE QUANTITIES), REFER TO FIRE ALARM FLOOR PLANS.
3. CONTRACTOR SHALL REPROGRAM EXISTING FIRE ALARM SYSTEM (EDWARDS EST) AS REQUIRED TO ACCEPT INSTALLATION OF NEW DEVICES. EXISTING VENDOR CONTACT INFO: GUETZKE & ASSOCIATES, INC. (262) 548–0100.
4. FURNISH AND INSTALL ALL FIRE ALARM COMPONENTS AND ASSOCIATED WIRING IN ACCORDANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS.

KEYED NOTES – FIRE ALARM PLAN

NO.	DESCRIPTION
1	PROVIDE AND INSTALL DEVICE WIRING PER VENDOR RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS. WIRING SHALL MEET NFPA SURVIVABILITY REQUIREMENTS.



1 FA–600 FIRE ALARM RISER DIAGRAM

SCALE: NONE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE ALARM

DRAWN BY	PLANS CK'D.
PH	FC

FIRE ALARM RISER DIAGRAM

SHEET FA–600

PRE_289

SCALE = AS NOTED

STATE PROJECT NUMBER
1000-57-05

GENERAL PLUMBING NOTES

1. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT AND INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTES OF PIPING. HOWEVER, IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.

2. THE CONTRACTOR SHALL VISIT THE PREMISES OF HIS PROPOSED WORK AND SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. VERIFICATION SHALL BE MADE AS TO THE ACTUAL LOCATIONS WHERE NEW PIPE RUNS WILL TIE INTO EXISTING WORK AND CLEARANCES WITH STRUCTURAL MEMBERS. THE CONTRACTOR SHALL INCLUDE ALL COSTS OF ANY KIND WHATSOEVER WHICH ARE INCURRED THROUGH LIMITATIONS OF THE EXISTING CONDITIONS.

3. THE DRAWINGS ON THESE PLANS ARE DIAGRAMMATIC. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHER TRADES AND THE BUILDING STRUCTURE. NO EXTRA PAYMENTS WILL BE AUTHORIZED FOR REROUTING OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH OTHER SYSTEMS.

4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF HIS WORK AND SHALL MEET ALL CURRENT FIRE CODES AT NO ADDITIONAL CHARGE TO THE RAILROAD.

5. THIS CONTRACTOR SHALL FURNISH AND INSTALL ACCESS PANELS AS REQUIRED WHERE ACCESSIBILITY TO COMPONENTS (VALVES, TRAPS, CLEANOUTS, ETC.) IS REQUIRED FOR MAINTENANCE AND/OR SYSTEM OPERATION AT NO ADDITIONAL CHARGE TO THE RAILROAD.

6. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM IN ACCORDANCE WITH CURRENT PLUMBING CODES.

7. ALL PENETRATIONS THROUGH FOUNDATIONS AND EXTERIOR WALLS SHALL BE PACKED WITH OAKUM AND SEALED WITH A WATERPROOF, NON-HARDENING SEALANT.

8. COORDINATE FIXTURE ROUGH-INS AND INSTALLATIONS WITH THE ARCHITECTURAL PLANS.

9. ALL EXPOSED DOMESTIC WATER DISTRIBUTION PIPING IS TO BE INSULATED.

10. COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH ELECTRICAL CONTRACTOR.

12. COORDINATE ALL WORK WITH AUTHORITIES HAVING JURISDICTION AND LOCAL UTILITY COMPANIES, INCLUDING BUT NOT LIMITED TO APPLICATIONS, PERMITS, FEES, APPROVALS, AND SIGN OFFS.

13. ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE 2015 OF WISCONSIN AND INTERNATIONAL PLUMBING CODE (2015).

14. ALL FUEL GAS WORK SHALL MEET THE REQUIREMENTS OF THE 2015 WISCONSIN FUEL GAS CODE.

15. ALL EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.

16. PROVIDE PIPE SUPPORTS, RISER CLAMPS, HANGERS TO SUPPORT PIPES EQUIPMENT & ACCESSORIES FROM THE STRUCTURE. CONTRACTOR SHALL PROVIDE REQUIRED SUPPLEMENT STEEL TO ACCOMPLISH A SAFE AND SOUND INSTALLATION.

17. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEERS FOR APPROVAL, PRIOR TO INSTALLATION, COMPLETE LAYOUT DRAWINGS INDICATING ALL PIPING SIZING.

1. ALL EQUIPMENT AND INSTALLATIONS MUST BE EQUAL TO THE STANDARDS OF THE BASE BUILDING. ANY DEVIATION FROM BUILDING STANDARDS WILL BE PERMITTED ONLY IF INDICATED OR SPECIFIED ON THESE PLANS AND SPECIFICATIONS, AND APPROVED.

2. TO INSURE CONTINUOUS OPERATION, MAKE ALL NECESSARY TEMPORARY CONNECTIONS BETWEEN NEW AND EXISTING WORK. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS SHALL BE BORNE BY THIS CONTRACTOR.

3. ANY PART OF WORK WHICH INTERFERES WITH COMUTER DAILY ACTIVITIES, OR CREATES DUST, FUME, NOISE ETC. MUST BE PERFORMED AT OFF HOURS OR WEEKEND AT NO EXTRA COST TO CUSTOMER.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

DRAWN BY	ZB	PLANS CK'D.	IK

COVER SHEET

SHEET
PRE_290
P-001

STATE PROJECT NUMBER

1000-57-05

PLUMBING ABBREVIATIONS

NOTE: THIS IS A STANDARD SYMBOL LIST AND NOT ALL ITEMS LISTED MAY BE USED.

#	NUMBER
&	AND
@	AT
'	FOOT, FEET
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BTUH	BRITISH THERMAL UNITS PER HOUR
CD	CONDENSATE DRAIN
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
CONT.	CONTINUATION
CV	CHECK VALVE
CW	COLD WATER
D	DRAIN
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DET	DOMESTIC EXPANSION TANK
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DN	DOWN
DR	DRAIN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FL	FLOOR
FT	FEET
FV	FLUSH VALVE
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWR	HOT WATER RETURN
HZ	HERTZ
IN, "	INCHES
INV	INVERT ELEVATION
IW	INDIRECT WASTE
L	LAVATORY
MIN	MINIMUM
MS	MOP SINK
MX	MIXING VALVE
N	NORTH
NIC	NOT IN CONTRACT
NO.	NUMBER
NTS	NOT TO SCALE
OD	OVERFLOW FLOW DRAIN
OF	OVERFLOW FLOW PIPING
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PD	PUMP DISCHARGE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RD	ROOF DRAIN
REF	REFERENCE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RTU	ROOF TOP UNIT (HVAC)
SA	SHOCK ARRESTOR
SAN	SANITARY
SD	STORM DRAIN OR SCRUBBER DRAIN
SE	SEWAGE EJECTOR
SF	SQUARE FEET
SHT	SHEET
SK	SINK
SP	SUMP PUMP
ST	STORM
TEMP	TEMPERATURE
TYP	TYPICAL
U, UR	URINAL
V	VENT
VTR	VENT THRU ROOF
W/	WITH
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER, WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WSFU	WATER SUPPLY FIXTURE UNIT

PLUMBING SYMBOL LIST

NOTE: THIS IS A STANDARD SYMBOL LIST AND NOT ALL ITEMS LISTED MAY BE USED.

GENERAL

- CONTINUATION
- DETAIL NUMBER AND SHEET LOCATION
- EQUIPMENT IDENTIFICATION (XX-X / LOCATION)
- FIXTURE TAG (LEVEL BELOW FIXTURE)
- KEYED NOTE
- POINT OF CONNECTION

PIPING FITTINGS

- ACCESS PANEL (AP)
- AQUASTAT
- CAP
- FLOOR CLEANOUT (FCO)
- FLOOR DRAIN (FD)
- FLOW DIRECTION
- WALL HYDRANT
- OVERFLOW ROOF DRAIN (OD)
- PIPE DROP
- PIPE RISE
- PUMP
- ROOF DRAIN (RD)
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VENT THROUGH ROOF (VTR)
- WALL CLEANOUT (WCO)
- CLEANOUT
- UNION
- GUTTER DRAIN

PIPING SYSTEMS

- CW — COLD WATER PIPING
- HW — HOT WATER PIPING
- SAN — SANITARY PIPING
- VENT PIPING
- ST — STORM PIPING
- OF — OVERFLOW PIPING
- PD — SUMP PUMP DISCHARGE
- G — GAS
- UNDERSLAB PIPING

VALVES

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL
- F — SHUTOFF VALVE, FUEL GAS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

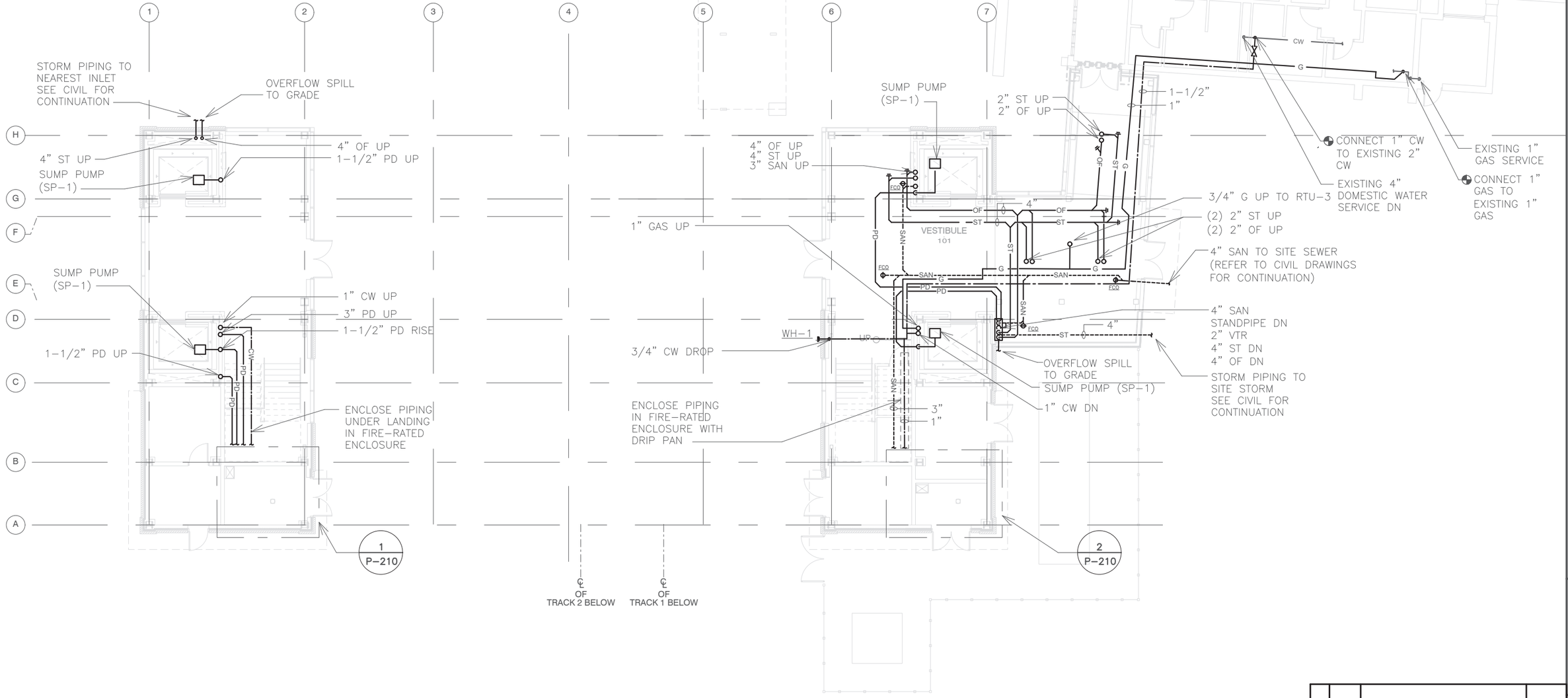
DRAWN BY ZB | PLANS CK'D. IK

LEGEND SHEET

SHEET
PRE_291
P-002

STATE PROJECT NUMBER

1000-57-05



1 P-111 FIRST FLOOR PROPOSED PLAN

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

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

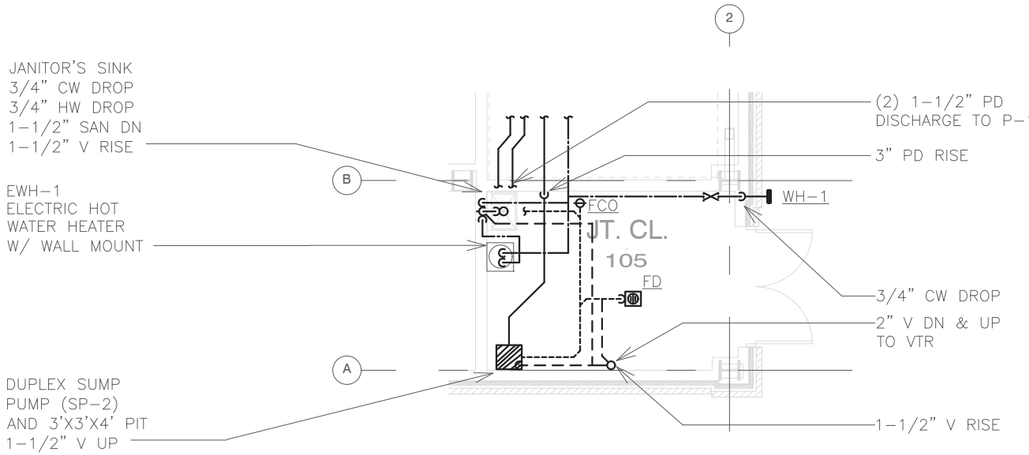
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DRAWN BY ZB | PLANS CK'D. IK

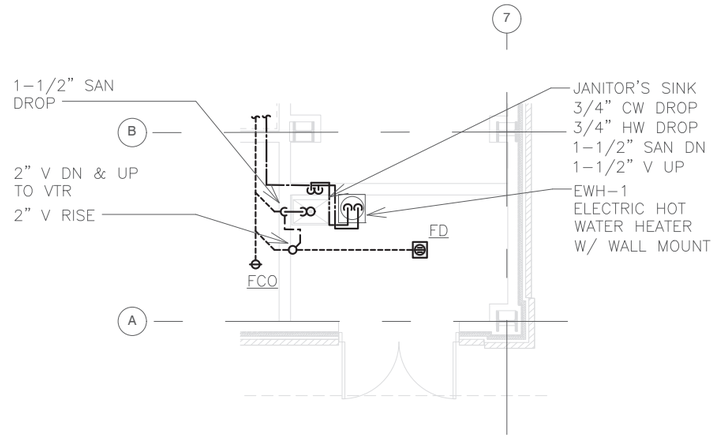
FIRST FLOOR PROPOSED PLAN

SHEET PRE_292 P-111

STATE PROJECT NUMBER
1000-57-05



1 P-210 WEST JANITORS CLOSET PLAN
SCALE: 1/8"=1'-0"
0 2 4 8 FT



2 P-210 EAST JANITORS CLOSET PLAN
SCALE: 1/8"=1'-0"
0 2 4 8 FT

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

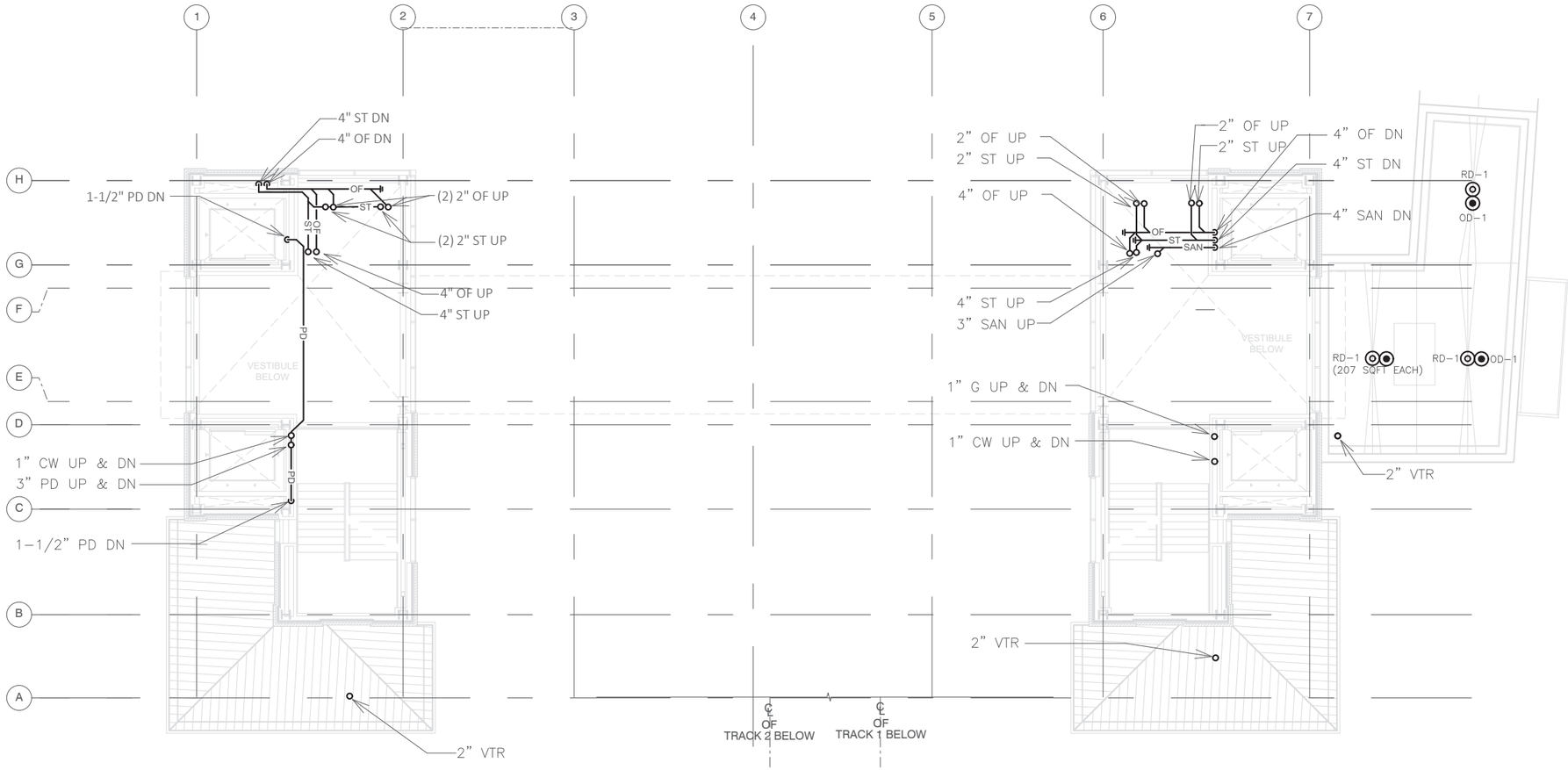
DRAWN BY ZB | PLANS CK'D. IK

FIRST FLOOR
PART PLAN

SHEET
PRE_293
P-210

STATE PROJECT NUMBER

1000-57-05



1 P-112 INTERMEDIATE LEVEL PLAN

SCALE: 1/16" = 1'-0

0 4 8 16 FT

N

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

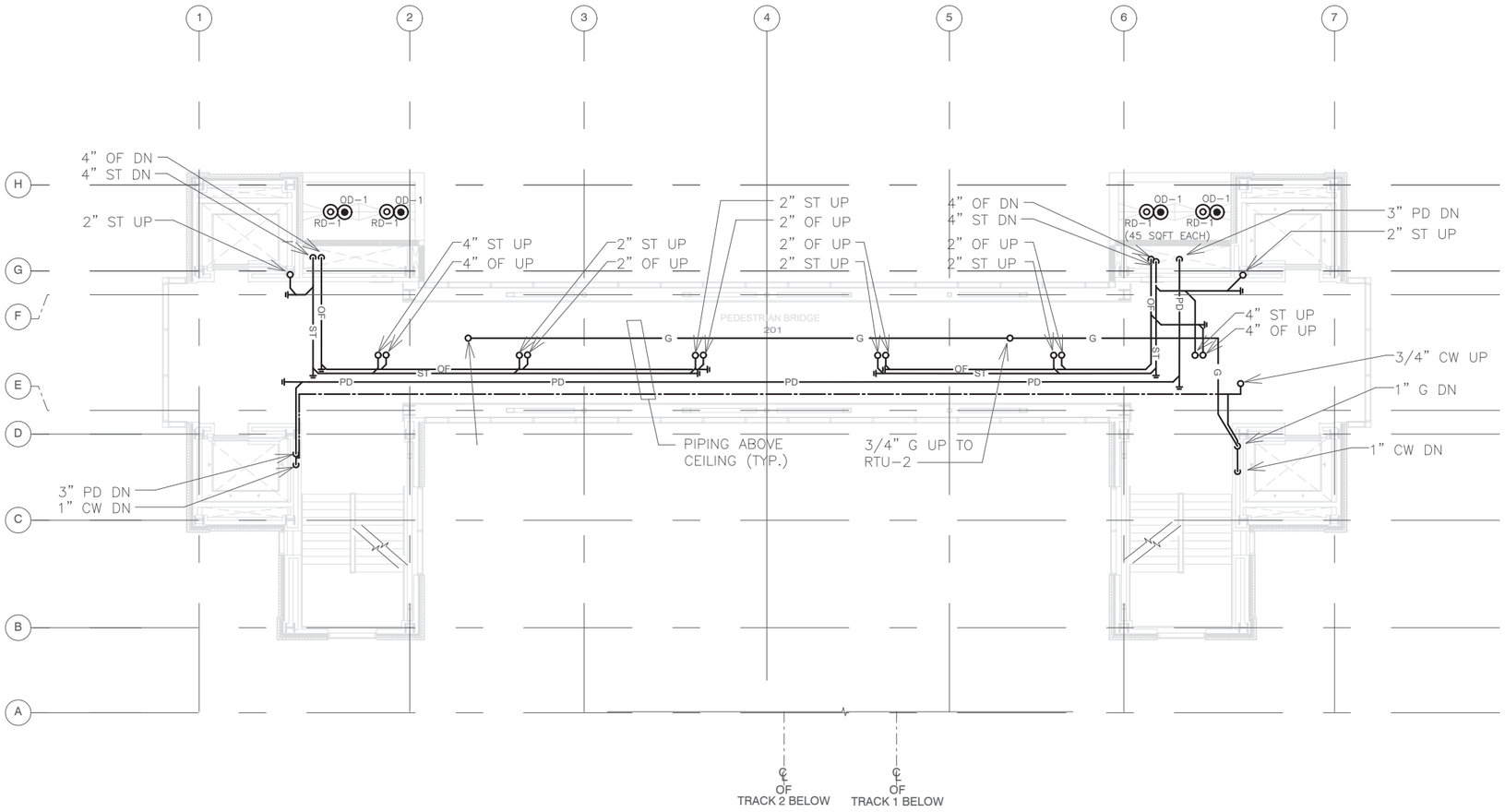
DRAWN BY ZB | PLANS CK'D. IK

INTERMEDIATE LEVEL PLAN

SHEET
PRE_294
P-112

STATE PROJECT NUMBER

1000-57-05



1 / P-113 SECOND FLOOR PLAN

SCALE: 1/16" = 1'-0

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

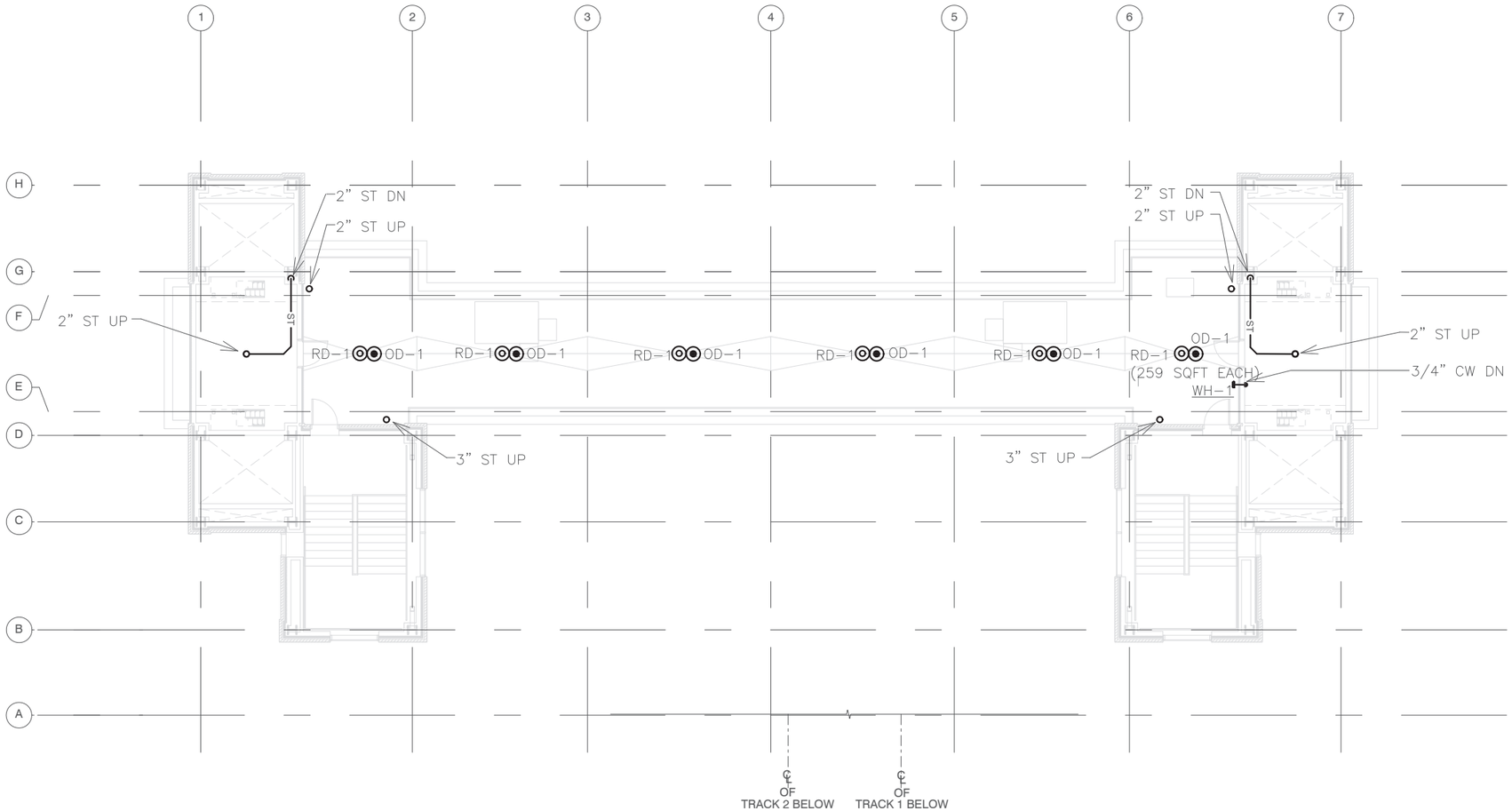
DRAWN BY ZB | PLANS CK'D. IK

SECOND FLOOR PLAN

SHEET
PRE_295
P-113

STATE PROJECT NUMBER

1000-57-05



1 P-114 PEDESTRIAN BRIDGE ROOF PLAN

SCALE: 1/16" = 1'-0

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

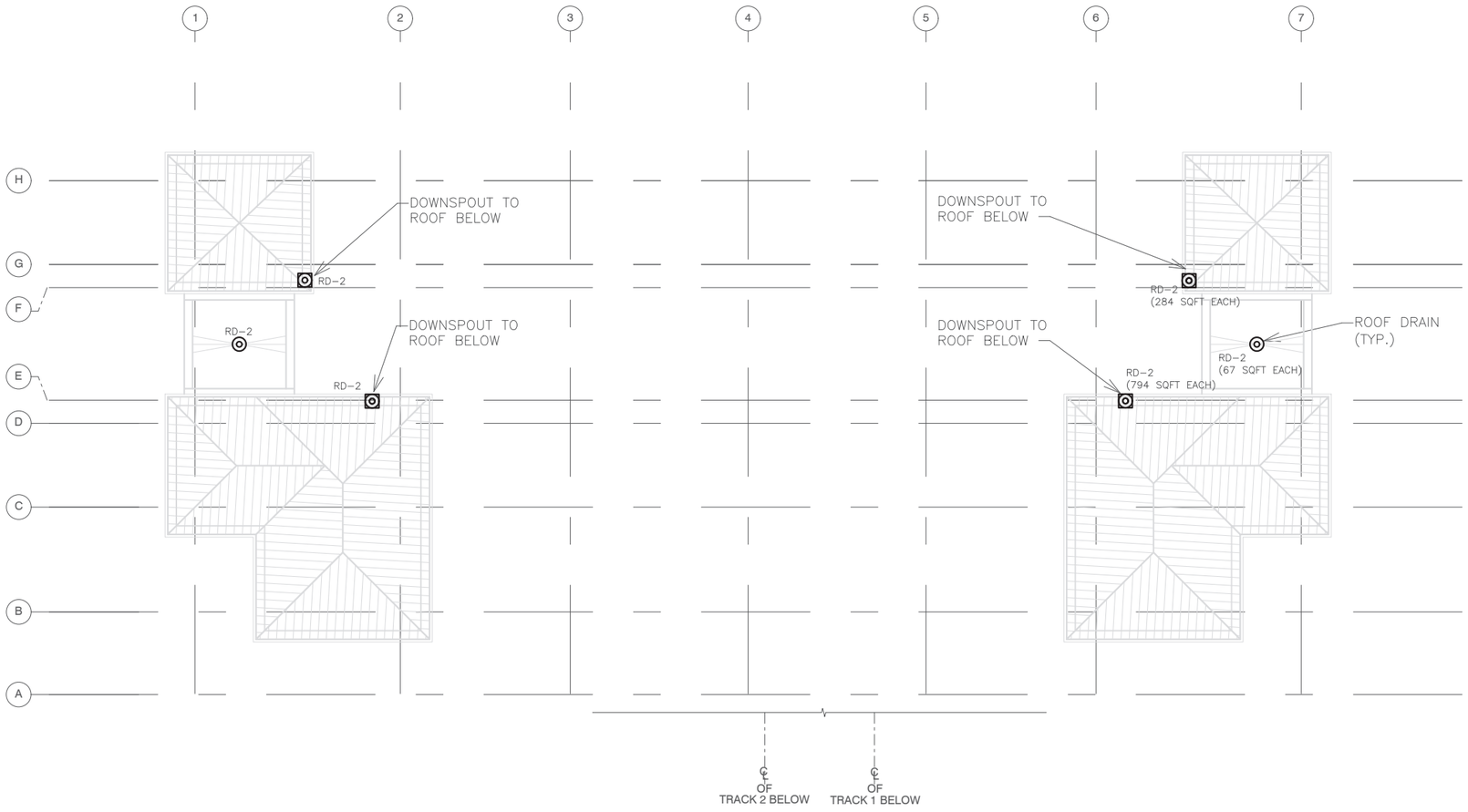
DRAWN BY ZB | PLANS CK'D. IK

PEDESTRIAN BRID PRE_296
ROOF PLAN

P-114

STATE PROJECT NUMBER

1000-57-05



1 P-115 EAST AND WEST TOWERS ROOF PLAN

SCALE: 1/16" = 1'-0

0 4 8 16 FT

N

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

DRAWN BY ZB | PLANS CK'D. IK

EAST AND WEST TOWERS ROOF PLAN

SHEET PRE_297 P-115

STATE PROJECT NUMBER
1000-57-05

PLUMBING FIXTURE SCHEDULE						
TAG	ITEM	MANUFACTURER	MODEL	QUANTITY	FINISHES	REMARKS
P–1	JANITOR'S SINK	EL MUSTEE	19CF UTILATUB	2		

PLUMBING FLOOR DRAIN SCHEDULE					
TAG	ITEM	MANUFACTURER	MODEL	FINISHES	REMARKS
FD–1	FLOOR DRAIN	J.R. SMITH	2005Y–B	POLISHED BRONZE	POLISHED BRONZE SQUARE STRAINER
RD/OD–1	ROOF DRAIN	J.R. SMITH	1850–CID		COMBINATION ROOF AND OVERFLOW DRAIN
RD–2	ROOF DRAIN	J.R. SMITH	1330Y–CID		

PLUMBING EQUIPMENT SCHEDULE						
TAG	ITEM	MANUFACTURER	MODEL	QTY.	FINISHES	REMARKS
EWH–1	ELECTRIC HOT WATER HEATER	BRADFORD WHITE	M–2–WH30L6SS	1		30 GAL, 7 GPH, 208 V, 1500 W
SP–1	SUMP PUMP	LIBERTY PUMPS	PC237–441–10A	4		20 GPM, $\frac{1}{3}$ HP
SP–2	SUMP PUMP	ZOELLER PUMP CO	145	1		20 GPM, 55' HEAD 1 HP, 208 V CONTROLLER W/ PUMP COVER
WH–1	WALL HYDRANT	WOODFORD	MB67K	4	S.S.	

PLUMBING PIPE SCHEDULE					
ITEM	MANUFACTURER	MATERIAL	LINEAR FEET	INSULATION	REMARKS
COLD WATER PIPING	————	HARD COPPER TUBE: ASTM B 88, TYPE L	————	————	
HOT WATER PIPING	————	HARD COPPER TUBE: ASTM B 88, TYPE L	————	————	
STORM PIPING	CHARLOTTE	HUBLESS CAST IRON SOIL	————	YES	INSULATION FOR ALL HORIZONTAL PIPING AND ROOF DRAINS
PUMP DISCHARGE PIPING	————	GALVANIZED STEEL	————	NONE	
SANITARY PIPING	CHARLOTTE	HUBLESS CAST IRON SOIL	————	NONE	
SANITARY VENT PIPING	CHARLOTTE	HUBLESS CAST IRON SOIL	————	NONE	
GAS PIPING PIPING	————	BLACK STEEL SCHEDULE 40		NONE	

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

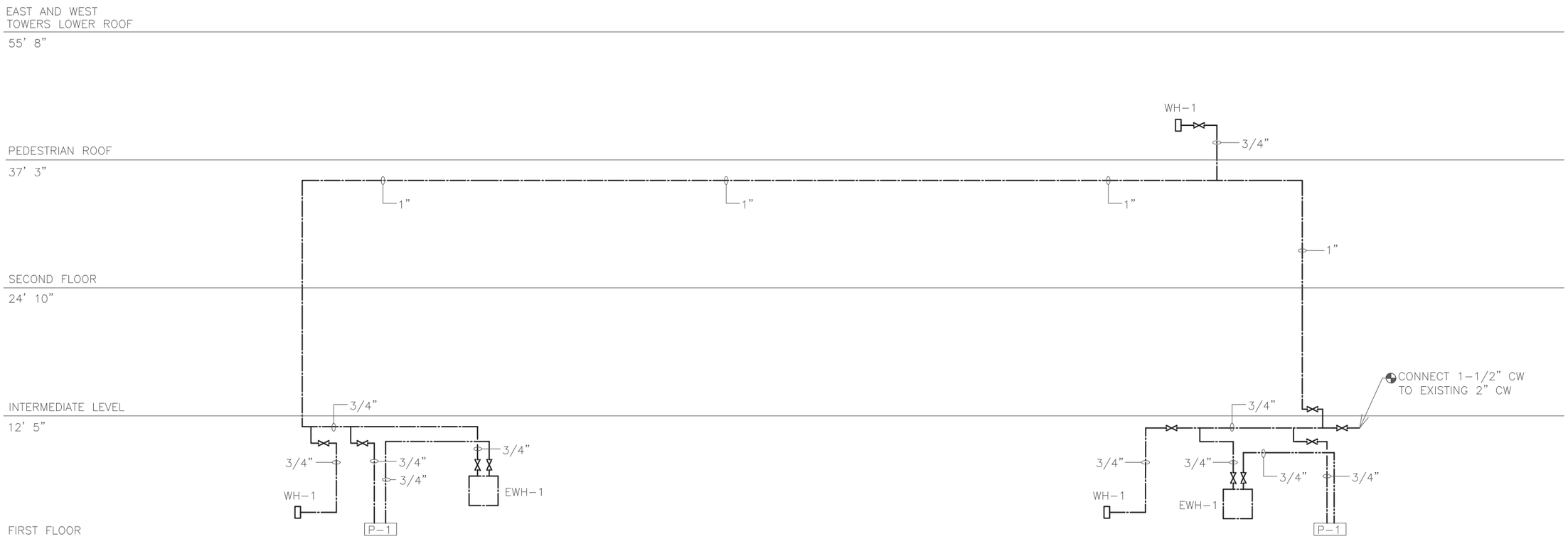
DRAWN BY ZB | PLANS CK'D. IK

PLUMBING SCHEDULE

SHEET
PRE_298
P-300

STATE PROJECT NUMBER

1000-57-05



1 P-400 DOMESTIC WATER RISER DIAGRAM

SCALE: NTS

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

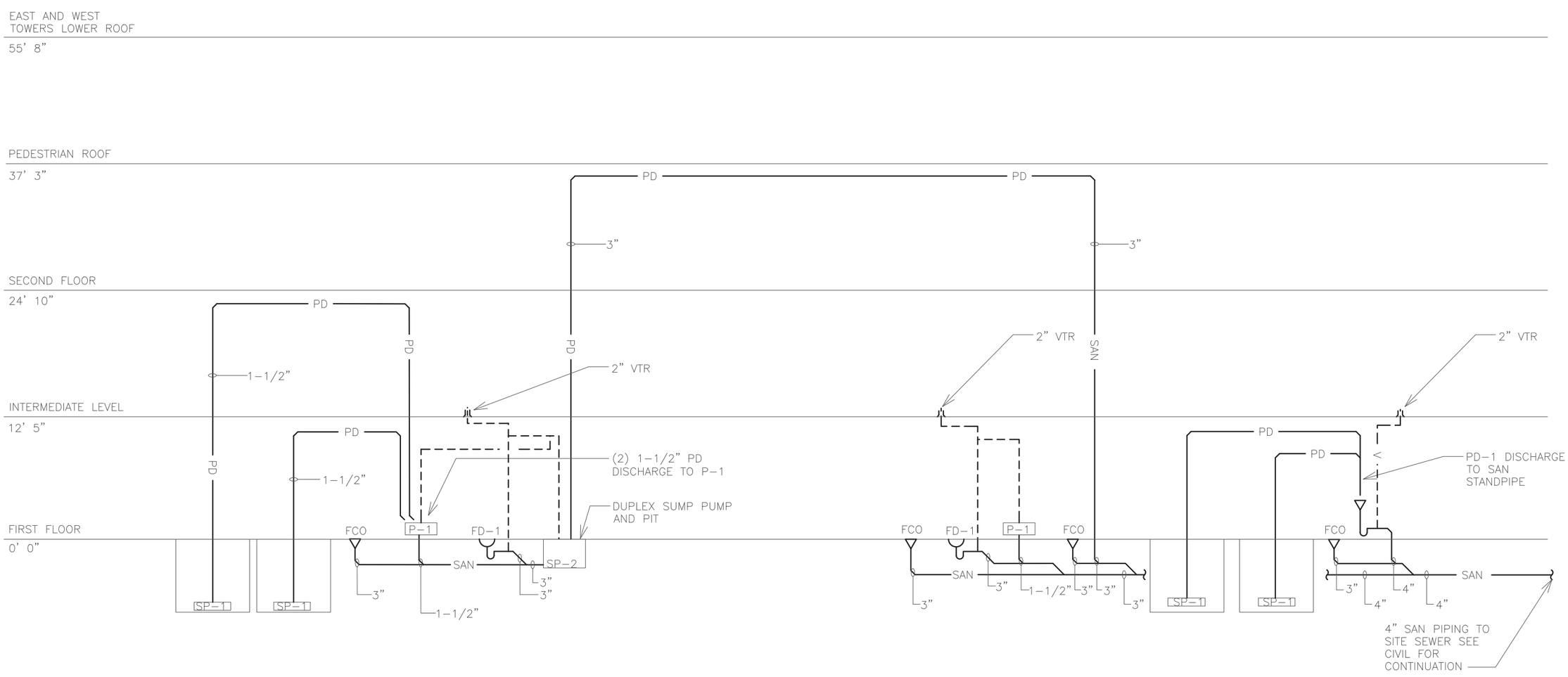
DRAWN BY	ZB	PLANS CK'D.	IK

DOMESTIC WATER RISER DIAGRAM

SHEET
PRE_299
P-400

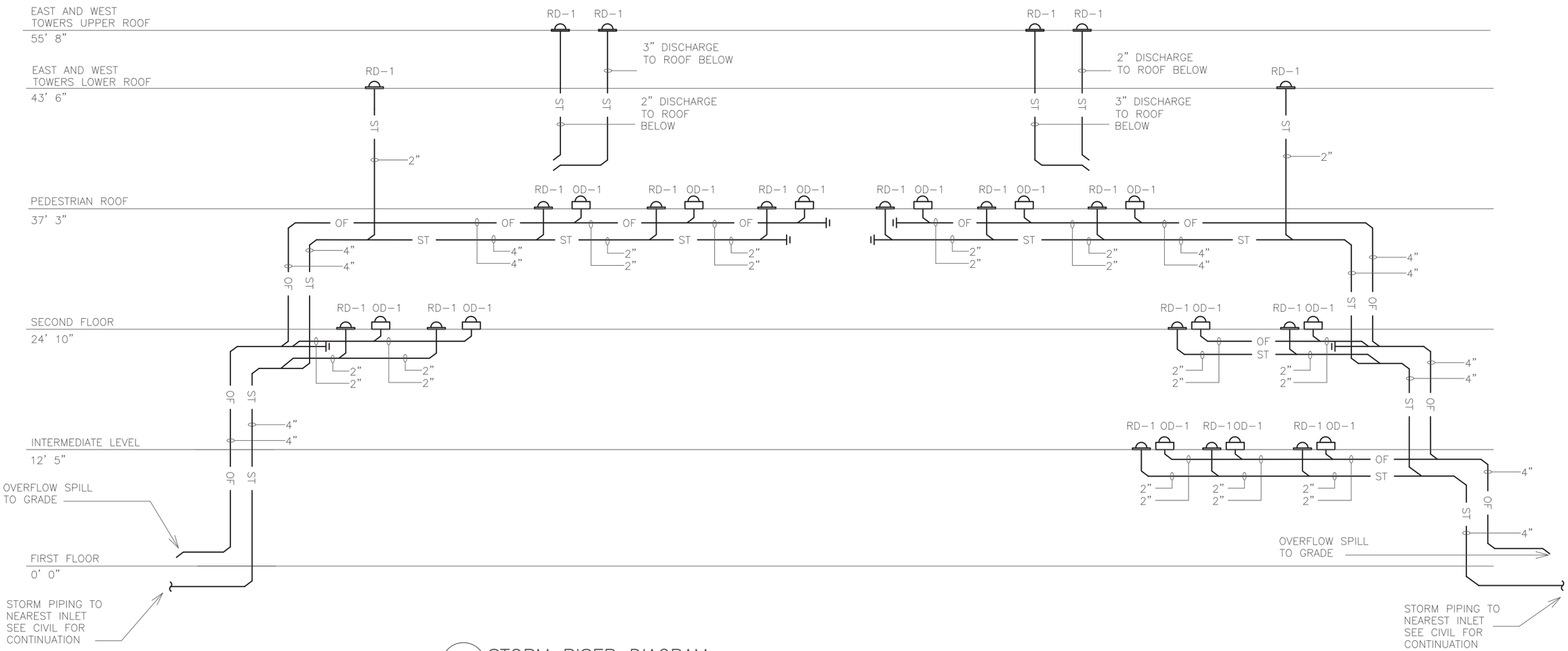
STATE PROJECT NUMBER

1000-57-05


EAST AND WEST
TOWERS LOWER ROOF
55' 8"
PEDESTRIAN ROOF
37' 3"
SECOND FLOOR
24' 10"
INTERMEDIATE LEVEL
12' 5"
FIRST FLOOR
0' 0"
PD
PD
PD

STATE PROJECT NUMBER

1000-57-05



1 P-402 STORM RISER DIAGRAM

SCALE: NTS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

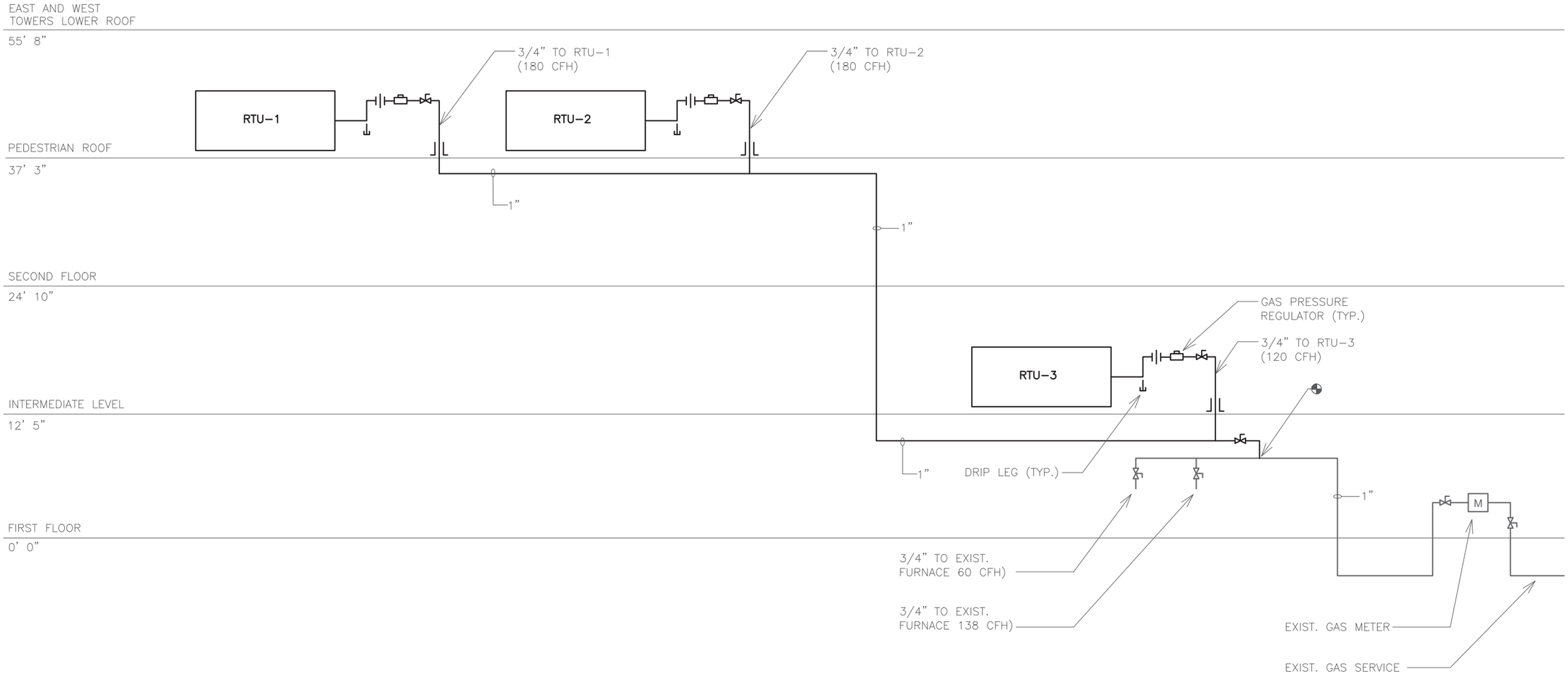
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STORM RISER DIAGRAM

SHEET
PRE_301
P-402

STATE PROJECT NUMBER

1000-57-05



1 PL-403 FUEL GAS RISER DIAGRAM

SCALE: NTS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

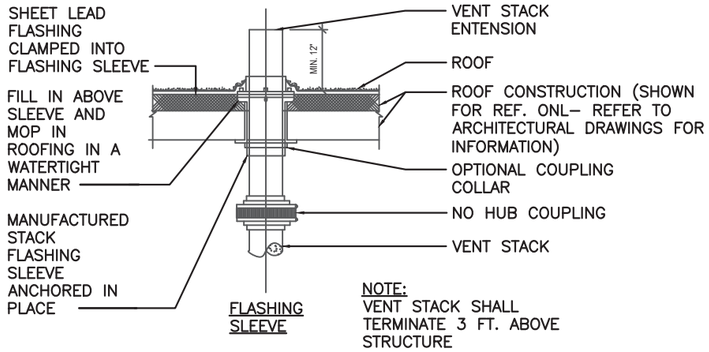
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FUEL GAS RISER DIAGRAM

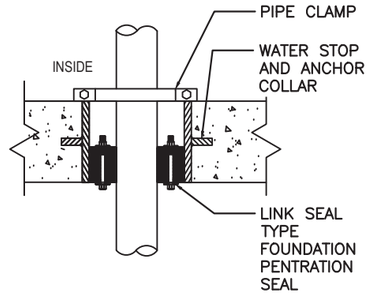
SHEET
PRE_302
P-403

STATE PROJECT NUMBER

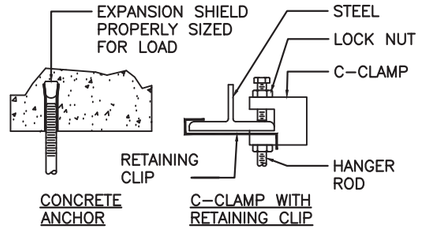
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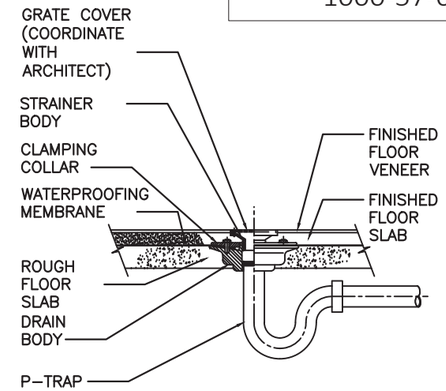
1 VENT THRU ROOF DETAIL
NTS



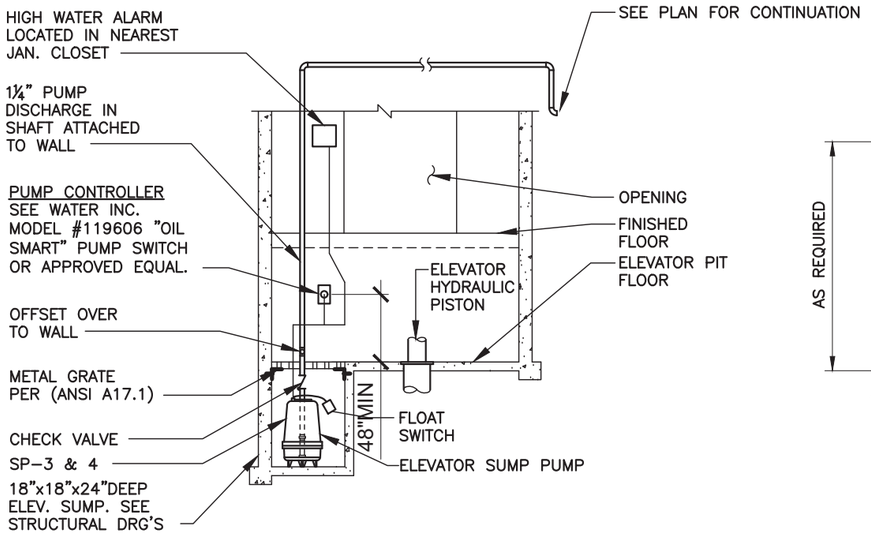
2 PIPE PENETRATION DETAIL
FOUNDATION WALL BELOW GRADE
NTS



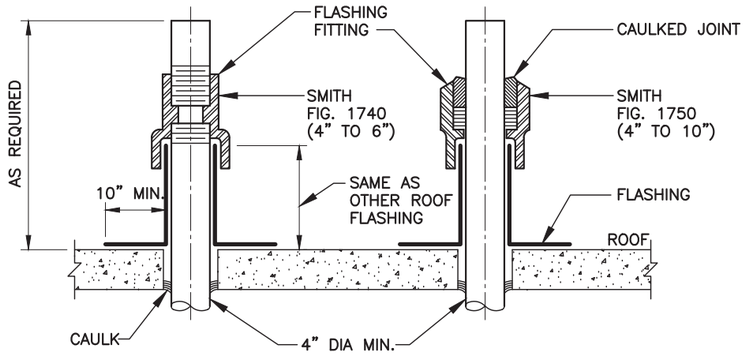
3 PIPE SUPPORT DETAIL
(UPPER ATTACHMENT DEVICES)
NTS



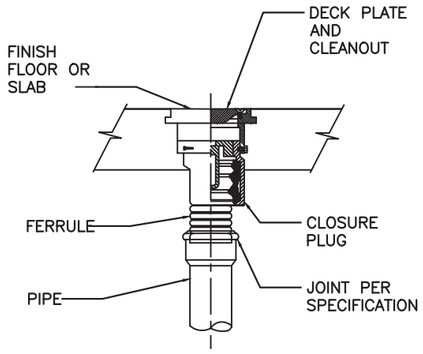
4 FLOOR DRAIN DETAIL
NTS



5 ELEVATOR SUMP PUMP DETAIL
NTS



6 TYPICAL FLASHING DETAIL
NTS



7 GRADE CLEANOUT W/ DECKPLATE DETAIL
NTS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

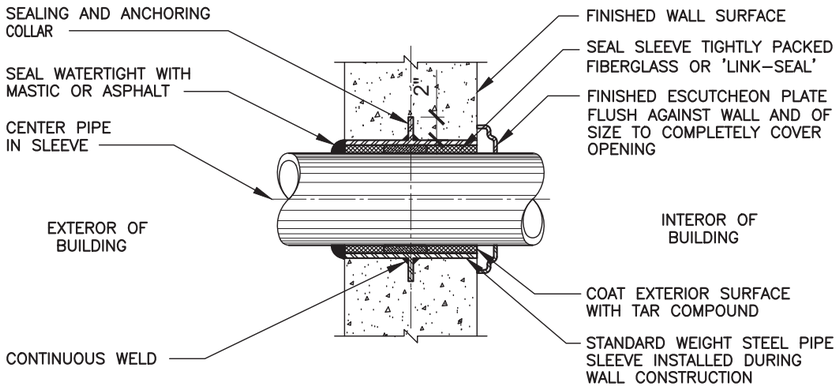
DRAWN BY	PLANS CK'D.
ZB	IK

PLUMBING DETAILS

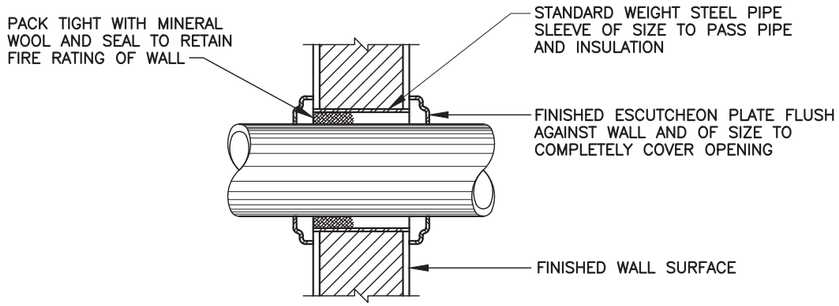
SHEET
PRE_303
P-500

STATE PROJECT NUMBER

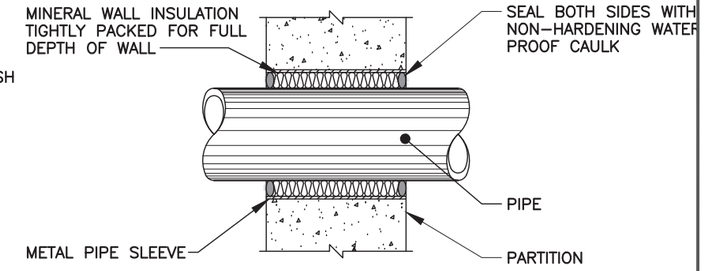
1000-57-05



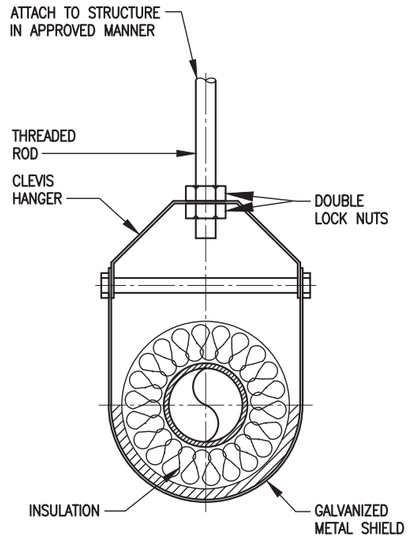
1 PIPE THRU EXTERIOR WALL DETAIL
NTS



2 PIPE THRU FIRE RATED WALL OR FLOOR DETAIL
NTS

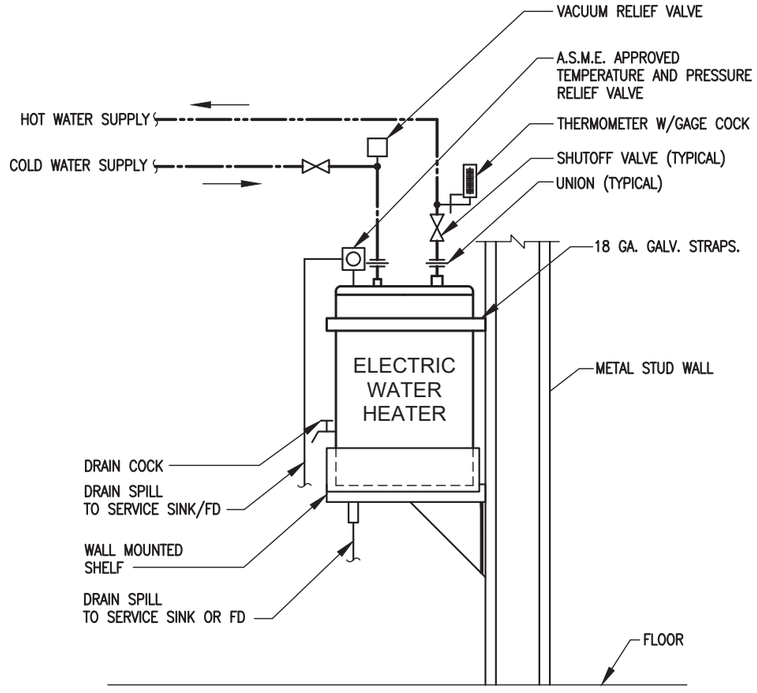


3 PIPE PENETRATION THRU NON FIRE RATED WALL DETAIL
NTS



4 HANGER DETAIL
NTS

5 TYPICAL PIPE INSULATION DETAIL
NTS



6 ELECTRIC WATER HEATER DETAIL
NTS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLUMBING

DRAWN BY ZB | PLANS CK'D. IK

PLUMBING DETAILS

SHEET
PRE_304
P-501

STATE PROJECT NUMBER
1000-57-05

GENERAL NOTES

1. THESE GENERAL NOTES ARE APPLICABLE TO ALL FIRE PROTECTION DESIGN DRAWINGS.
2. ALL DIMENSIONS SHOWN ON THE DESIGN DRAWINGS, INCLUDING GRID DIMENSIONING, ARE APPROXIMATE.
3. PIPE SIZES SHOWN ARE FOR REFERENCE ONLY. FINAL SIZING SHALL BE AS PER APPROVED HYDRAULIC CALCULATIONS AND SHOP DRAWINGS.
4. CONSTRUCTION SHOP AND WORKING DRAWINGS SHALL USE FIELD VERIFIED EXISTING CONDITION INFORMATION AND DIMENSIONS ONLY.
5. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL INTENT OF WORK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL FIRE PROTECTION WORK. ADDITIONAL PIPING MAY BE REQUIRED TO ACCOMODATE CONDITIONS SUCH AS SOFFITS, DUCTWORK, STRUCTURE, LIGHTING, EQUIPMENT, ETC. THE CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION IN CONFORMANCE WITH ALL APPLICABLE CODES AND STANDARDS AND AHJ REQUIREMENTS.
6. THE CONTRACTOR SHALL COORDINATE ALL DISCIPLINES AND TRADES IN THE DESIGN AND IMPLEMENTATION OF THE WORK. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM A FAILURE TO COORDINATE THE WORK TO THE SATISFACTION OF THE OWNER.
7. FOR ALL ITEMS THAT ARE REQUIRED TO HAVE SEISMIC BRACING OR RESTRAINTS, SEISMIC PLANS, AND SEISMIC CALCULATIONS SHALL BE PREPARED, SEALED, AND SUBMITTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN ENGAGED BY THE CONTRACTOR. THE REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT SIGNED AND SEALED AFFIDAVIT AND AS BUILT DOCUMENTS STATING THAT THE INSTALLATION IS IN FULL COMPLIANCE WITH THE SIGNED/SEALED SHOP DRAWINGS.
8. THE CONTRACTOR SHALL COMPLY WITH THE BUILDING CODES. ALL WORK SHALL MEET THE REQUIREMENTS OF NFPA STANDARDS. INSTALLATION PROCEDURES SHALL COMPLY WITH THE SAFETY RULES OF OSHA, AND THE REQUIREMENTS OF THE OFFICE OF THE STATE FIRE MARSHAL.
9. THE CONTRACTOR SHALL MAKE PROVISIONS FOR DRAINING THE ENTIRE SYSTEM PER NFPA 14 AND 25.
10. THE CONTRACTOR SHALL PROVIDE ANY AND ALL PERMITS REQUIRED FOR COMPLETE PERFORMANCE OF WORK.
11. THE FIRE PROTECTION WORK IS TO BE DONE BY A LICENSED MASTER FIRE SUPPRESSION PIPING FITTER.
12. 15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFEGUARDS NECESSARY TO PROTECT PERSONS AND PROPERTY FROM INJURY OR DAMAGE DURING PERFORMANCE OF THE WORK.

GENERAL NOTES (CONT.)

13. UPON COMPLETION OF SYSTEM INSTALLATION, PERFORM A HYDROSTATIC TEST ON ALL PIPING AND ATTACHED APPURTENANCES IN THE PRESENCE OF A REPRESENTATIVE OF THE LOCAL FIRE MARSHAL AND THE OWNER. THE SYSTEM SHALL BE HYDROSTATICALLY TESTED AS PER NFPA REQUIREMENTS. LOSS SHALL BE DETERMINED BY A DROP IN GAUGE PRESSURE OR VISUAL LEAKAGE. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE SYSTEM OR PORTION BEING TESTED. ALL SYSTEM TESTING SHALL BE IN ACCORDANCE WITH NFPA 14 AND NFPA 25. ALL WITNESSES SHALL BE NOTIFIED 24 HOURS BEFORE THE TEST.
14. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AND MAINTAINING ITEMS TO REMAIN ADJACENT TO AND WITHIN THE CONSTRUCTION SITE, AND SHALL FULLY PROTECT THEM FROM DAMAGE RESULTING FROM CONTRACTOR WORKMEN, SUBCONTRACTORS, OR AGENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAINTING, CLEANING, OR REPLACING ANY SUCH DAMAGE AS PART OF THE WORK.
15. PROVIDE A FIRE WATCH WHENEVER ANY WELDING IS DONE WITHIN THE AREA BEING WORKED, DURING THE WELDING OPERATION, AND FOR ONE HOUR AFTER WELDING IS COMPLETE.
16. PROVIDE PIPE SUPPORTS, RISER CLAMPS AND HANGERS TO SUPPORT PIPING, EQUIPMENT AND ACCESSORIES INDEPENDENTLY FROM THE STRUCTURE. THE CONTRACTOR SHALL PROVIDE REQUIRED SUPPLEMENTARY STEEL TO ACCOMPLISH A SAFE AND SOUND INSTALLATION.
17. ALL PIPING SHALL BE LOCATED IN HUNG CEILING, INSIDE SOFFIT OR IN PIPE CHASES.
18. PROVIDE FIRE STOPPING MATERIAL FOR ALL PENETRATIONS THROUGH FIRE WALLS AND FIRE RATED SEPARATIONS EQUAL TO THE RATING OF RESPECTIVE PARTITION. COORDINATE WITH ARCHITECT LOCATIONS AND RATINGS OF ALL FIRE RATED SEPARATIONS AND BARRIERS. INSTALLATION OF FIRE STOPPING SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
19. ALL NEW AND MODIFIED SYSTEMS SHALL BE FULLY TESTED IN ACCORDANCE WITH WISCONSIN FIRE AND BUILDING CODES, NFPA 13, NFPA 14, AND NFPA 25.

SYMBOLS

FP	FIRE STANDPIPE PIPING
	PIPE DROP OR DOWN
	PIPE UP OR RISE
	CAPPED OUTLET
	PIPE BREAK
	FIRE HOSE VALVE IN CAB.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CAB	CABINET
DN	DOWN
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FP	FIRE PROTECTION
TYP	TYPICAL

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

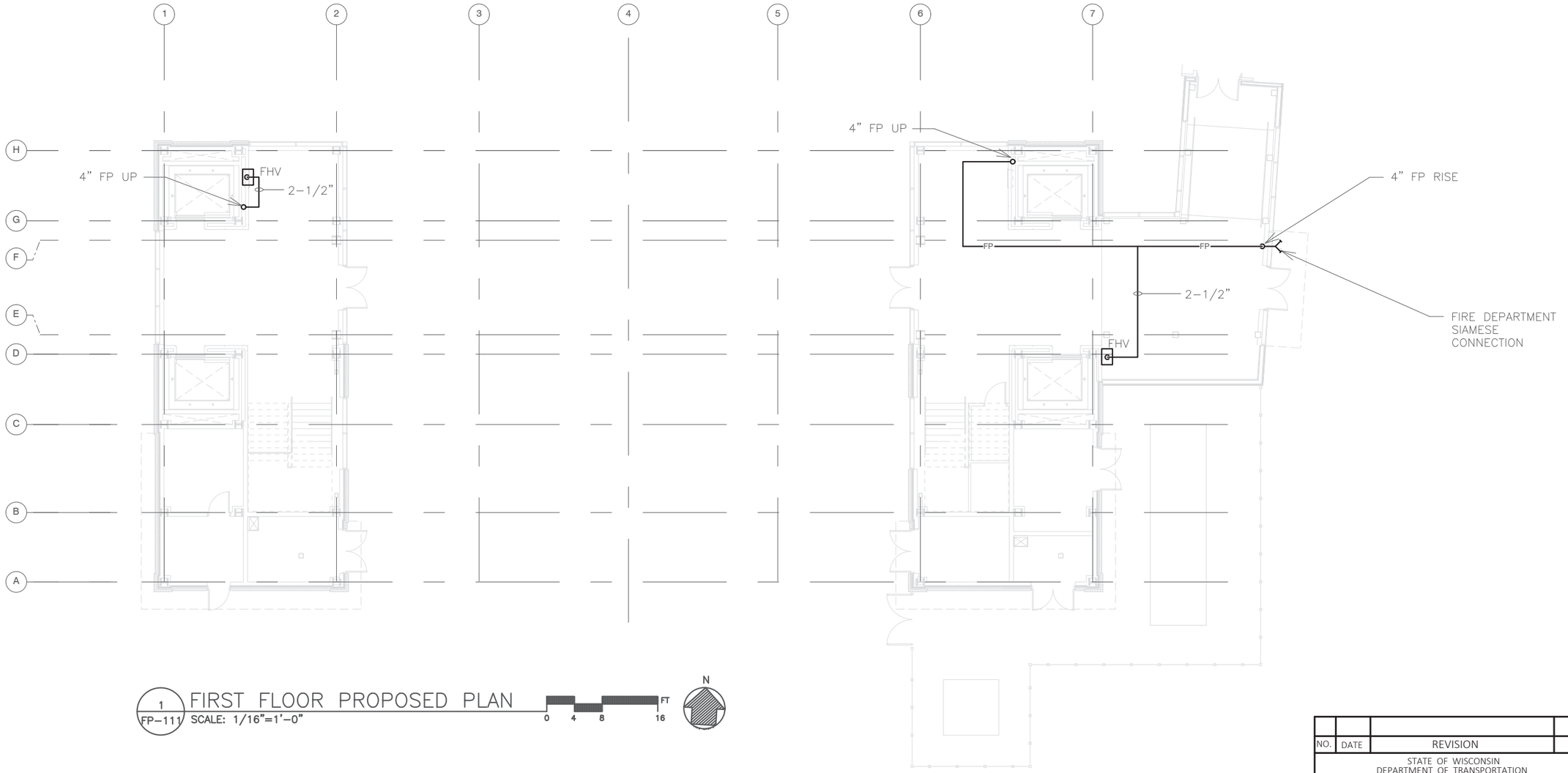
FIRE PROTECTION

DRAWN BY ZB | PLANS CK'D. IK

COVER SHEET

SHEET
PRE_305
FP-001

STATE PROJECT NUMBER
1000-57-05



1 / FP-111 FIRST FLOOR PROPOSED PLAN

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

0 4 8 16 FT

N

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE PROTECTION

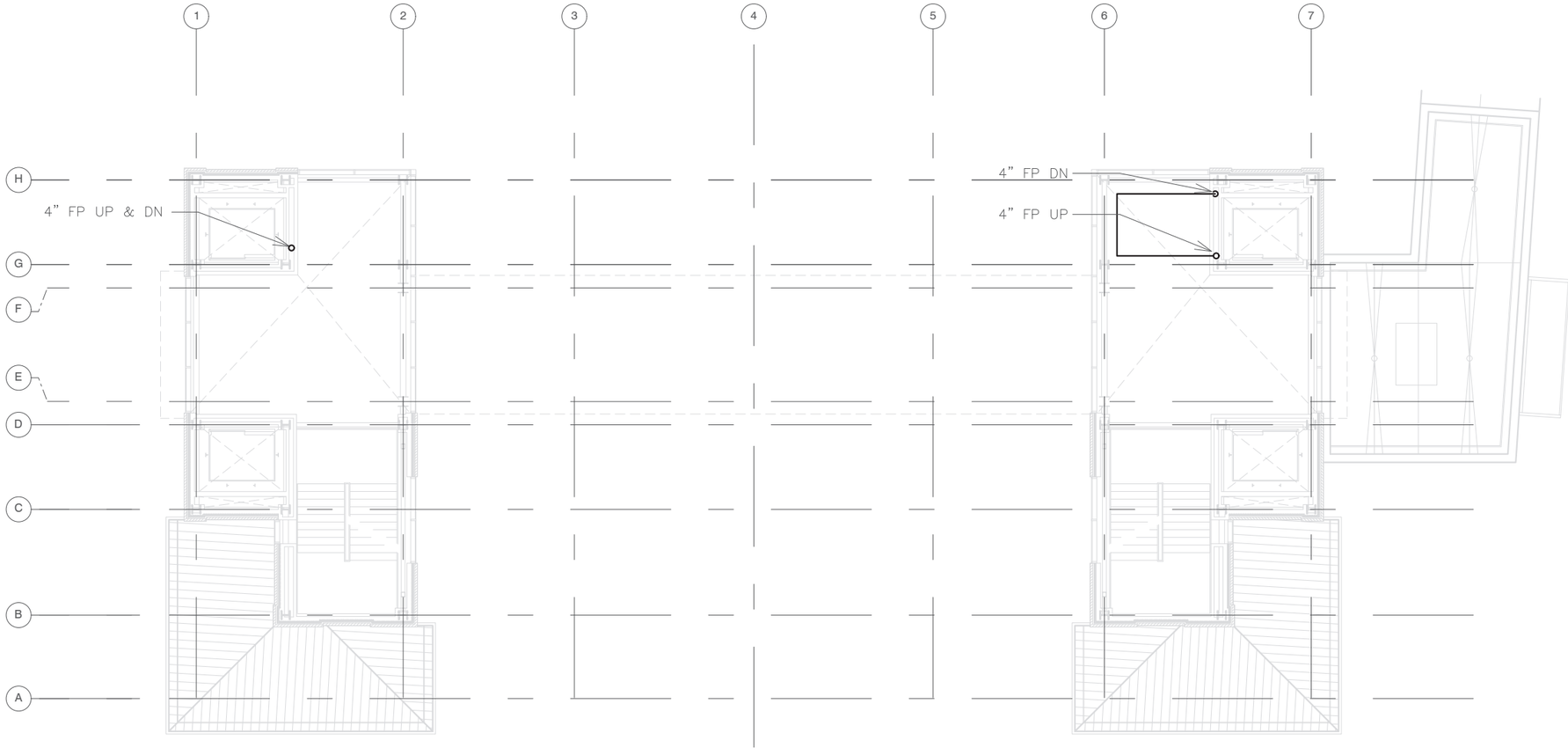
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ZB	IK

FIRST FLOOR
PROPOSED PLAN

SHEET
PRE_306
FP-111

STATE PROJECT NUMBER

1000-57-05



1 FP-112 INTERMEDIATE FLOOR PROPOSED PLAN

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

0 4 8 16 FT

N

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

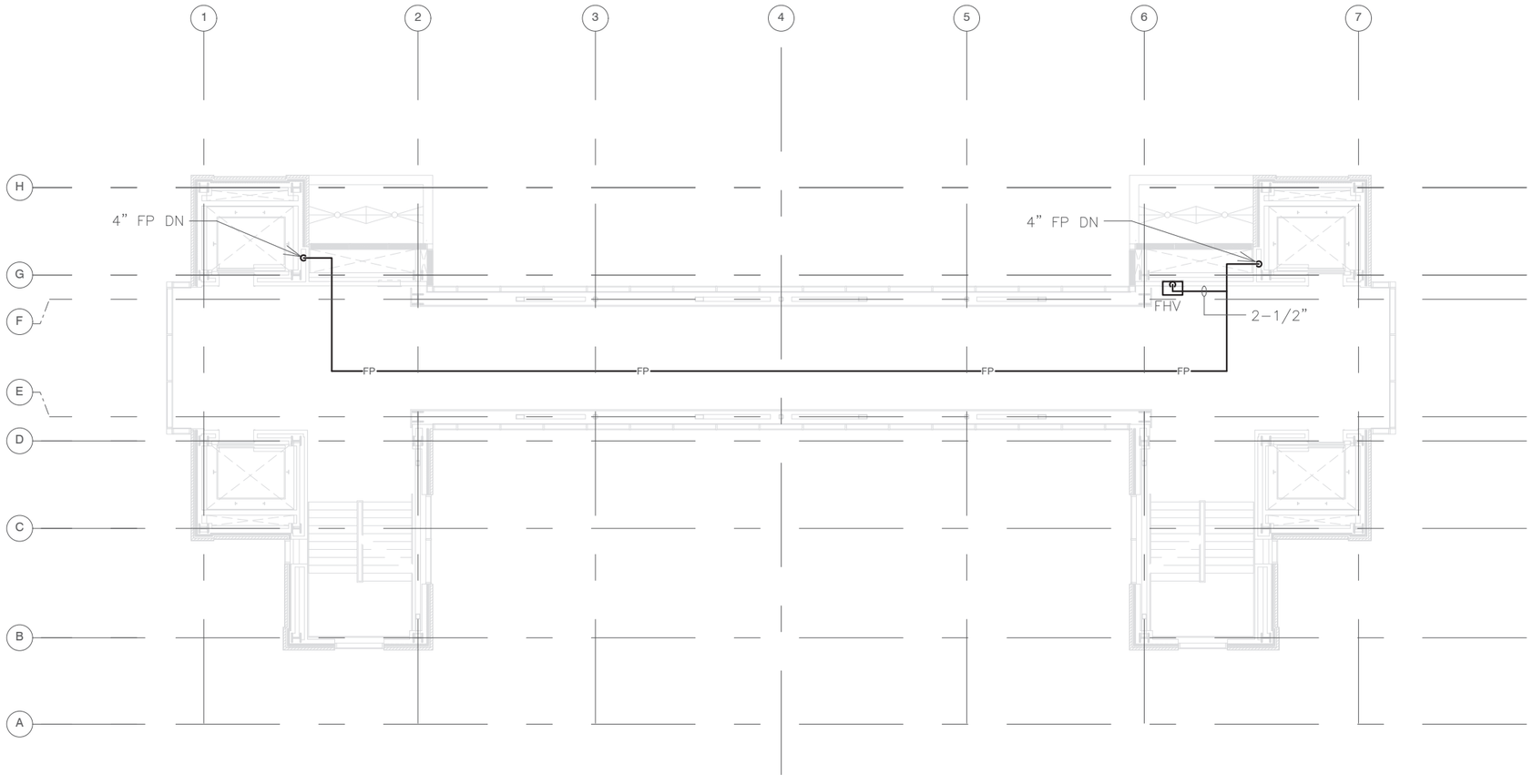
FIRE PROTECTION

DRAWN BY ZB | PLANS CK'D. IK

INTERMEDIATE FLOOR PROPOSED PLAN

SHEET
PRE_307
FP-112

STATE PROJECT NUMBER
1000-57-05



1 FP-113 SECOND FLOOR PROPOSED PLAN

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

0 4 8 16 FT

N

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE PROTECTION

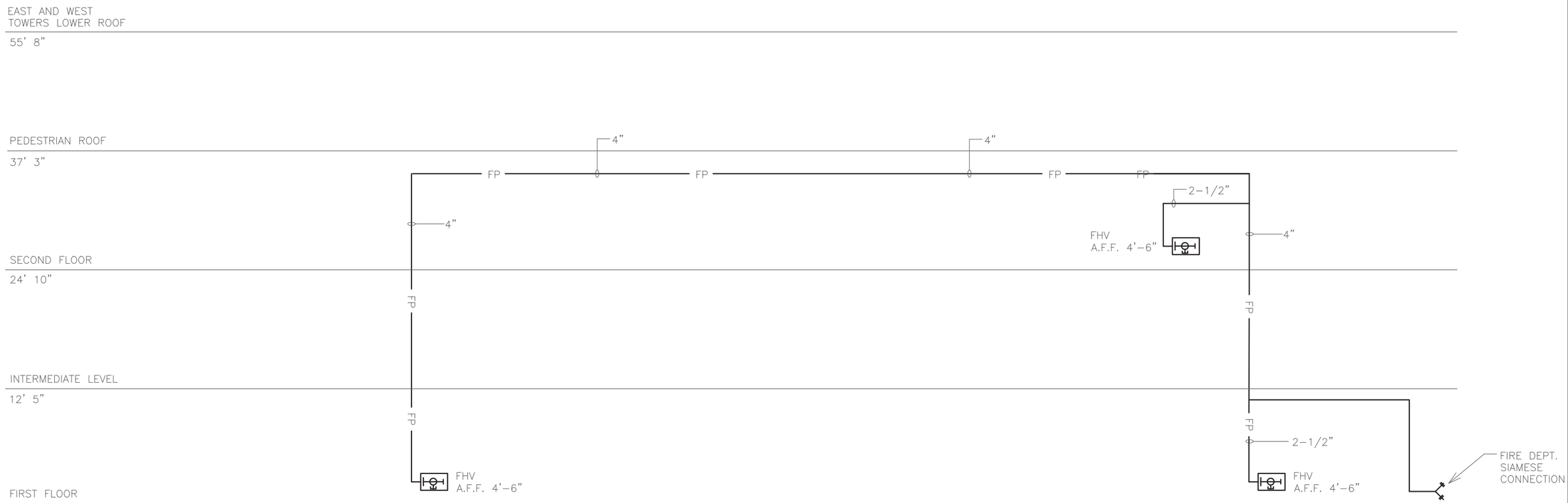
DRAWN BY ZB | PLANS CK'D. IK

SECOND FLOOR PROPOSED PLAN

SHEET
PRE_308
FP-113

STATE PROJECT NUMBER

1000-57-05



1 FP-400 FIRE PROTECTION RISER DIAGRAM

SCALE: NTS

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE PROTECTION

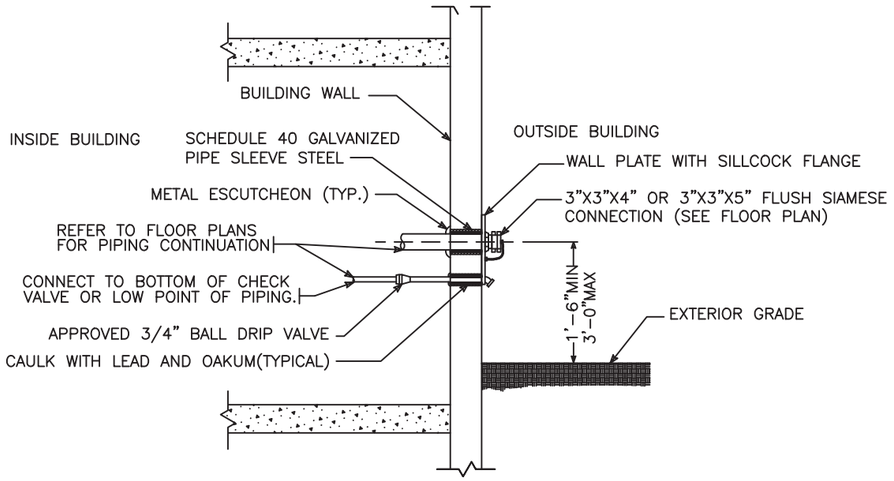
DRAWN BY ZB | PLANS CK'D. IK

FIRE PROTECTION
RISER DIAGRAM

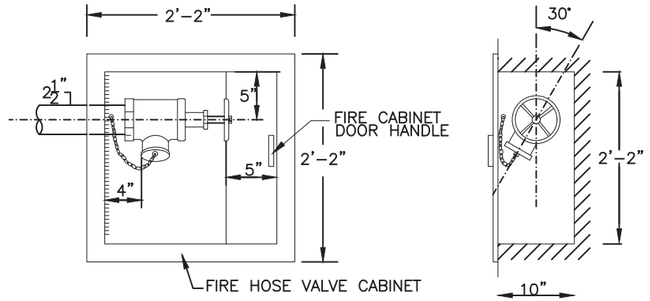
SHEET
PRE_309
FP-400

STATE PROJECT NUMBER

1000-57-05



1 STANDPIPE SIAMESE CONNECTION DETAIL
NTS

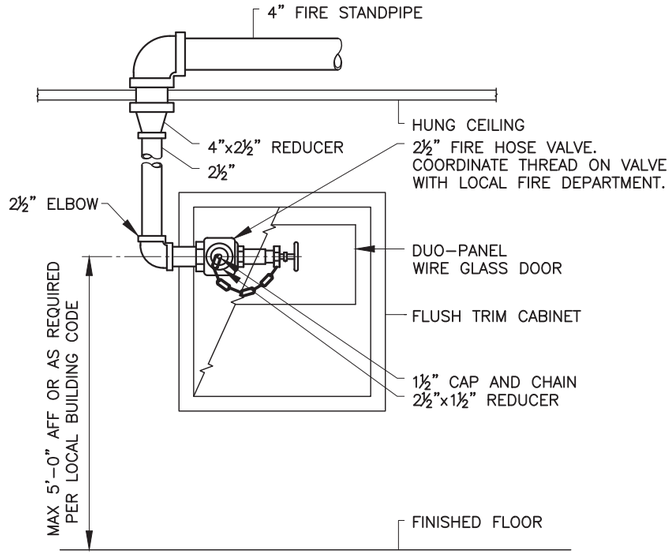


NOTES:

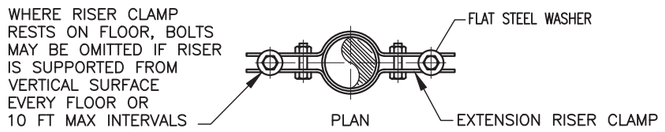
1. FOR LOCATION OF FIRE HOSE CABINETS, SEE ARCHITECTURAL AND FIRE PROTECTION DRAWINGS.
2. FIRE HOSE VALVE SHALL BE TILTED AT 30 DEGREE ANGLE INSIDE THE CABINET TO FACILITATE CONNECTION WITH FDNY STANDARD HOSE THREAD.

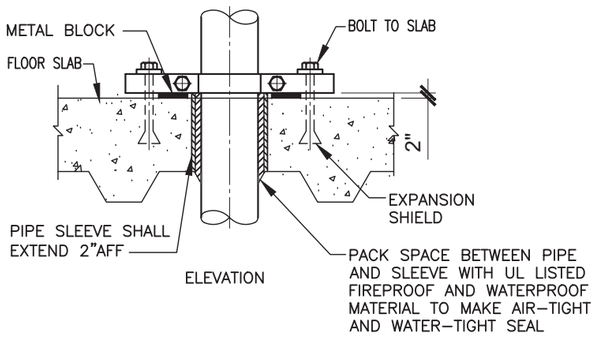
   FIRE HOSE VALVE SHALL NOT BE OBSTRUCTED FROM USE OR OBSCURED FROM VIEW.

2 FIRE HOSE VALVE CABINET DETAIL
NTS



3 FIRE HOSE CABINET DETAIL
NTS





4 RISER SUPPORT TYPICAL FOR WATERPROOF FLOORS
NTS

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8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

FIRE PROTECTION

DRAWN BY ZB | PLANS CK'D. IK

FIRE PROTECTION DETAILS

SHEET
PRE_310
FP-500

ABBREVIATIONS

&	AND
@	AT
±	PLUS/MINUS
2SSO	TWO SPEED SIDE OPENING
ADAAG	AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
AUX	AUXILLARY
BMS	BUILDING MANAGEMENT SYSTEM
C/L	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
C.O.P	CAR OPERATING PANEL
CWT	COUNTERWEIGHT
DWG	DRAWING
ELEV.	ELEVATOR
EQPT	EQUIPMENT
EX.	EXISTING
FC	FOOT CANDLE
FIN	FINISH, FINISHED
FFL	FINISHED FLOOR LEVEL
FPM	FEET PER MINUTE
FT	FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GOV.	GOVERNOR
HD	HEAT DETECTOR
HP	HORSEPOWER
LBS	POUNDS
LS	LIGHT SWITCH
LX	LUX
MAX.	MAXIMUM
MIN.	MINIMUM
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
N.T.S	NOT TO SCALE
NO.	NUMBER
O.C	OFF CENTER
O.D.	OVERHEAD DEFLECTOR
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
PH	PHASE
PL	PLATE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REFLECTED CEILING PLAN
SD	SMOKE DETECTOR
SIM	SIMILAR
SP	SPRINKLER
SPEC	SPECIFICATION(S)
SS	STAINLESS STEEL
SSSO	SINGLE SPEED SIDE OPENING
STP	STOP
SUSP.	SUSPENDED
SW.	SWITCH
TBD	TO BE DETERMINED
TEMP	TEMPORARY
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLT / VOLTAGE
V.I.F	VERIFY-IN-FIELD
VT	VERTICAL TRANSPORTATION
W/	WITH
W/O	WITHOUT
WPF	WATERPROOF

APPLICABLE CODES

1. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   - 1.1. INTERNATIONAL BUILDING CODE 2015 AS ADOPTED UNDER SPS 361.05 AND MODIFIED IN CHAPTERS SPS 361 TO 366.
   - 1.2. ASME A17.1/2016 - SAFETY CODE FOR ELEVATORS AND ESCALATORS AS ADOPTED UNDER CHAPTERS SPS 318.
   - 1.3. NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
   - 1.5. NFPA 70 - NATIONAL ELECTRICAL CODE.
   - 1.6. NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE.
2. THE ELEVATOR CONTRACTOR SHALL ADVISE THE OWNER OF PENDING CODE CHANGES THAT COULD BE APPLICABLE TO THIS PROJECT OR PROPERTY AND PROVIDE QUOTATIONS FOR COMPLIANCE WITH RELATED COSTS.

GENERAL NOTES

1. REFER TO ELEVATOR SPECIFICATION 142100 - OVERHEAD ELECTRIC TRACTION PASSENGER ELEVATOR FOR FULL DETAILS.
2. KEEP ALL EQUIPMENT, PARTS, AND AREAS OF THE BUILDING, EXTERIOR SPACES, ROADWAYS, AND SIDEWALKS FREE FROM MATERIALS AND DEBRIS RESULTING FROM THE EXECUTION OF ALL WORK. EXCESS MATERIALS SHALL NOT BE PERMITTED TO ACCUMULATE EITHER IN THE INTERIOR OR EXTERIOR OF THE BUILDING.
3. UNLESS OTHERWISE INDICATED ON THE CONTRACT DRAWINGS OR SPECIFICATIONS, AT THE CONCLUSION OF WORK EACH DAY, OR NIGHT AS APPLICABLE, ALL PUBLIC SPACES SHALL BE RETURNED TO THEIR ORIGINAL STATE TO PERMIT UNIMPEDED PUBLIC ACCESS.
4. VERIFY THE FLOOR TO FLOOR ELEVATION DIFFERENCES IN FIELD.
5. IN THE EVENT OF ANY SURVEYED DIMENSION DISCREPANCY, NOTIFY THE ENGINEER AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THE DISCREPANCY HAS BEEN FULLY RESOLVED.
6. UNLESS OTHERWISE STATED, CONTRACTOR IS RESPONSIBLE FOR THE FULL AND COMPLETE INSTALLATION OF ALL EQUIPMENT, INCLUDING CONDUIT AND WIRING, NECESSARY FOR PROPER OPERATION OF THE EQUIPMENT.
7. THERE SHALL BE NO MANUFACTURER'S IDENTIFYING SIGNAGE DISPLAYED ON INSTALLED ELEVATORS.

ELECTRICAL

1. ONLY MACHINERY AND EQUIPMENT USED DIRECTLY IN CONNECTION WITH THE ELEVATOR SHALL BE PERMITTED IN ELEVATOR HOISTWAYS AND MACHINE ROOMS. (ASME A17.1 §2.8.1)
2. ALL ELECTRICAL EQUIPMENT PLACEMENT AND INSTALLATION SHALL BE COORDINATED WITH THE ELEVATOR CONTRACTOR AND SHALL NOT BE LOCATED UNTIL ELEVATOR EQUIPMENT IS INSTALLED OR COORDINATION HAS BEEN ARRANGED WITH CONTRACTOR'S EQUIPMENT PLACEMENT.
3. THE MINIMUM CLEAR HEADROOM IN ANY ELEVATOR MACHINE ROOM SHALL BE NO LESS THAN 84". (ASME 17.1 §2.7.4.1)
4. ELEVATOR, ELECTRICAL ENCLOSURES: ALL ELECTRICAL EQUIPMENT, LOCATED LESS THAN 48 IN. ABOVE THE PIT FLOOR, SHALL:
   - BE WEATHERPROOF (NEMA 4).
   - HAVE WIRING IDENTIFIED FOR USE IN WET LOCATIONS IN ACCORDANCE WITH THE REQUIREMENTS IN NFPA 70
5. ELEVATOR, MAINLINE DISCONNECT / BREAKER: A SINGLE MEANS FOR DISCONNECTING THE MAIN POWER SUPPLY FOR EACH UNIT SHALL BE PROVIDED. THE DISCONNECTING MEANS SHALL BE A LISTED DEVICE; EITHER AN ENCLOSED EXTERNALLY OPERABLE FUSED MOTOR CIRCUIT SWITCH OR A CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION AND SHALL BE LOCATED ADJACENT TO THE MACHINE ROOM ACCESS DOOR. A LABEL ON THE DISCONNECT IS REQUIRED TO SHOW THE LOCATION OF THE OVERCURRENT PROTECTION. (NEC §620.51).
6. ELEVATOR, AUXILIARY DISCONNECT: A SEPARATE BRANCH CIRCUIT (SINGLE PHASE) SHALL SUPPLY THE CAR LIGHTS, RECEPTACLES, EMERGENCY LIGHTING, AND VENTILATION IN EACH ELEVATOR CAR. IT SHALL BE A LOCKABLE FUSED SWITCH / BREAKER AND SHALL BE LOCATED IN THE ELEVATOR MACHINE ROOM. A LABEL ON THE DISCONNECT IS REQUIRED TO SHOW THE LOCATION OF THE OVERCURRENT PROTECTION. SHOW ON ELECTRICAL DRAWINGS. (NEC §620.22(A)).
7. ELEVATOR, GFCI RECEPTACLES: GFCI RECEPTACLES SHALL BE REQUIRED IN ALL ELEVATOR MACHINE ROOMS AND ELEVATOR PIT AREAS. (N.E.C, §620.23(C) & §620.24(C)).
8. ELEVATOR, MACHINE ROOM LIGHTING: PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE PROVIDED IN ALL ELEVATOR MACHINE ROOMS. MINIMUM ILLUMINATION SHALL BE NOT LESS THAN 200LX (19FC) AT THE FLOOR LEVEL, AND SHALL BE ADEQUATE TO WORK ON ALL EQUIPMENT WITHOUT SHADOWING. LIGHT SWITCH SHALL BE LOCATED INSIDE THE ROOM, NEAR THE ACCESS DOOR. (ASME A17.1, §2.7.5.1).
9. ELEVATOR, MACHINE ROOM LIGHT SWITCH: LIGHT SWITCHES FOR ALL ELEVATOR MACHINE ROOMS, MACHINERY SPACES, AND CONTROL ROOM SHALL BE LOCATED TO THE JAMB STRIKE SIDE OF THE MACHINE ROOM ENTRY DOOR. (N.E.C §620.23(B)).
10. ELEVATOR, PIT LIGHTING: PERMANENTLY INSTALLED LIGHTING SHALL BE PROVIDED IN EACH ELEVATOR PIT. MINIMUM ILLUMINATION SHALL BE NOT LESS THAN 100LX (10FC) AT THE PIT FLOOR. BULB(S) SHALL BE EXTERNALLY GUARDED TO PREVENT CONTACT AND ACCIDENTAL BREAKAGE. LOCATIONS SHALL BE COORDINATED WITH ELEVATOR CONTRACTOR SO THAT FIXTURE(S) ARE OUT OF THE WAY OF ALL ELEVATOR EQUIPMENT. (ASME A17.1, §2.2.5).
11. ELEVATOR, PIT LIGHT SWITCH: THE ELEVATOR PIT LIGHT SWITCH SHALL BE A MINIMUM OF 18" TO 36" ABOVE THE LOWEST LANDING DOOR SILL AND ADJACENT TO (NOT BEHIND) THE PIT LADDER. FOR PITS THAT ARE ACCESSED VIA A PIT ACCESS DOOR, THE PIT LIGHT SWITCH SHALL BE READILY ACCESSIBLE FROM THE ACCESS DOOR. (N.E.C §620.24(D)).
12. ELEVATOR, SEPARATE CIRCUITS (PIT): THE ELEVATOR PIT SHALL HAVE A SEPARATE BRANCH CIRCUIT SUPPLYING THE PIT LIGHTING AND RECEPTACLES. REQUIRED LIGHTING SHALL NOT BE CONNECTED TO THE LOAD SIDE OF A GROUND-FAULT INTERRUPTER. (N.E.C §620-24(A))
13. ELEVATOR, SEPARATE CIRCUITS (MACHINE ROOM): A SEPARATE BRANCH CIRCUIT SHALL SUPPLY THE ELEVATOR MACHINE ROOM LIGHTING AND RECEPTACLES. (N.E.C §620-23(A)).
14. ELEVATOR, EMERGENCY POWER: EMERGENCY POWER SHALL BE PROVIDED TO ALL ELEVATOR MACHINE ROOM LIGHTING CIRCUITS AND TO ALL ELEVATOR CAR LIGHTING DISCONNECTS IN THE ELEVATOR MACHINE ROOMS. IF THE ELEVATOR IS TO BE CONNECTED TO FACILITY EMERGENCY POWER, THE HVAC UNIT (IF APPLICABLE) SHALL ALSO BE PROVIDED WITH FACILITY EMERGENCY POWER, TO PROVIDE A PROPER TEMPERATURE ENVIRONMENT FOR THE CONTROLLER.
15. ELEVATOR, FIRE ALARM: A SMOKE DETECTOR SHALL BE PROVIDED INSIDE THE ELEVATOR MACHINE ROOM(S) AS WELL AS AT EACH ELEVATOR LOBBY. IF AMBIENT CONDITIONS PRECLUDE THE USE OF A SMOKE DETECTOR, OTHER DETECTION MEANS MAY BE USED (HEAT DETECTORS). (ASME A17.1, §2.27.3.2.2)
16. ELEVATOR, CONDUIT RUNS: ALL ELECTRICAL CONDUIT SHALL BE RUN OVERHEAD OR IN A MANNER WHICH DOES NOT RESTRICT ACCESS TO OR AROUND ANY EQUIPMENT.
17. ELEVATOR, PHONE AND DATA: CONDUIT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR IN ALL ELEVATOR MACHINE ROOM TO THE ELEVATOR CONTROLLERS. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR BOTH EMERGENCY ELEVATOR PHONE AND REQUIRED DATA LINE TO THE MACHINE ROOM, TO THE CONTROLLERS, AND TERMINATED ON THE ELEVATOR CONTROLLERS IN COORDINATION WITH THE ELEVATOR CONTRACTOR.
18. ELEVATOR, MACHINE ROOM HVAC: ELEVATOR MACHINE ROOM(S) ENVIRONMENT SHALL BE MAINTAINED BETWEEN 50°F - 104°F WITH NO MORE THAN 95% HUMIDITY NON CONDENSING. TEMPERATURE SHALL BE CONTROLLED BY MEANS OF AN INDEPENDENT AIR-CONDITIONING SYSTEM. EQUIPMENT SHALL NOT BE INSTALLED DIRECTLY ABOVE ELEVATOR EQUIPMENT.
19. ELEVATOR, ACCESS LADDER (PIT): THERE SHALL BE INSTALLED IN THE PIT OF EACH ELEVATOR, WHERE THE PIT EXTENDS MORE THAN 35" BELOW THE SILL OF THE PIT ACCESS DOOR (LOWEST HOISTWAY DOOR OR SEPARATE PIT ACCESS DOOR), A FIXED VERTICAL LADDER OF NONCOMBUSTIBLE MATERIAL, LOCATED WITHIN REACH OF THE ACCESS DOOR. THE LADDER SHALL EXTEND NOT LESS THAN 48" ABOVE THE SILL OF THE ACCESS DOOR OR HANDGRIPS SHALL BE PROVIDED TO THE SAME HEIGHT. THE LADDER RUNGS, CLEATS, OR STEPS SHALL BE SPACED 12" ON CENTER, SHALL BE PROVIDED TO NOT LESS THAN THE HEIGHT OF THE DOOR ACCESS SILL, AND SHALL BE DESIGNED TO MINIMIZE SLIPPING (E.G., KNURLING, DIMPLING, COATING WITH SKID RESISTANT MATERIAL, ETC.). ACCESS BY A LADDER SHALL NOT BE PERMITTED WHEN THE PIT FLOOR IS MORE THAN 120 IN. BELOW THE SILL OF THE ACCESS DOOR. (ASME A17.1 §2.2.4.2)

ELEVATOR INSPECTION NOTE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND COMMISSIONING OF THE ELEVATORS IN ACCORDANCE WITH THE WISCONSIN STATE BUILDING CODE, AND A17.1.

STATE PROJECT NUMBER

1000-57-05

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY LD | PLANS CK'D. SY

ABBREVIATIONS AND GENERAL NOTES

SHEET VT-001

PRE_311

SCALE = AS NOTED

8

8

STATE PROJECT NUMBER

1000-57-05

ELEVATOR SCHEDULE													
ELEVATOR NO	CATEGORY	TYPE	A17.1 CAPACITY (LBS.)	APTA CAPACITY (LBS.)	RATED SPEED (FPM)	PIT DEPTH	CLEAR OVERHEAD	CLEAR HOISTWAY WIDTH	CLEAR HOISTWAY DEPTH	PLATFORM WIDTH	PLATFORM DEPTH	CAR INSIDE WIDTH	CAR INSIDE DEPTH
ELEV. 01, 02, 03, 04	PASSENGER CLASS A	OVERHEAD TRACTION	4,000	6,000	350	5'-8"	17'-10"	9'-4"	7'-11"	8'-0"	6'-2"	7'-9"	5'-4 1/2"

ELEVATOR SCHEDULE (CONTINUED)												
	DOOR			CAR TYPE	TRAVEL	NUMBER OF STOPS	NUMBER OF OPENINGS	LEVELS SERVED	POWER (HP)	STARTING CURRENT 480V, 3PH, 60Hz (A)	RUNNING CURRENT 480V, 3PH, 60Hz (A)	HEAT RELEASE AT CONTROL ROOM (BTU/HR/UNIT)
ELEVATOR NO	DOOR WIDTH	DOOR HEIGHT	TYPE									
ELEV. 01, 02, 03, 04	4'-0"	7'-0"	SINGLE SPEED SIDE OPENING	FRONT OPENING	24'-10 3/8"	2	2 (2F / 0R)	PLATFORM & OVERPASS	60	150	75	42,000

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY LD | PLANS CK'D. SY

ELEV. 01-04, SCHEDULE

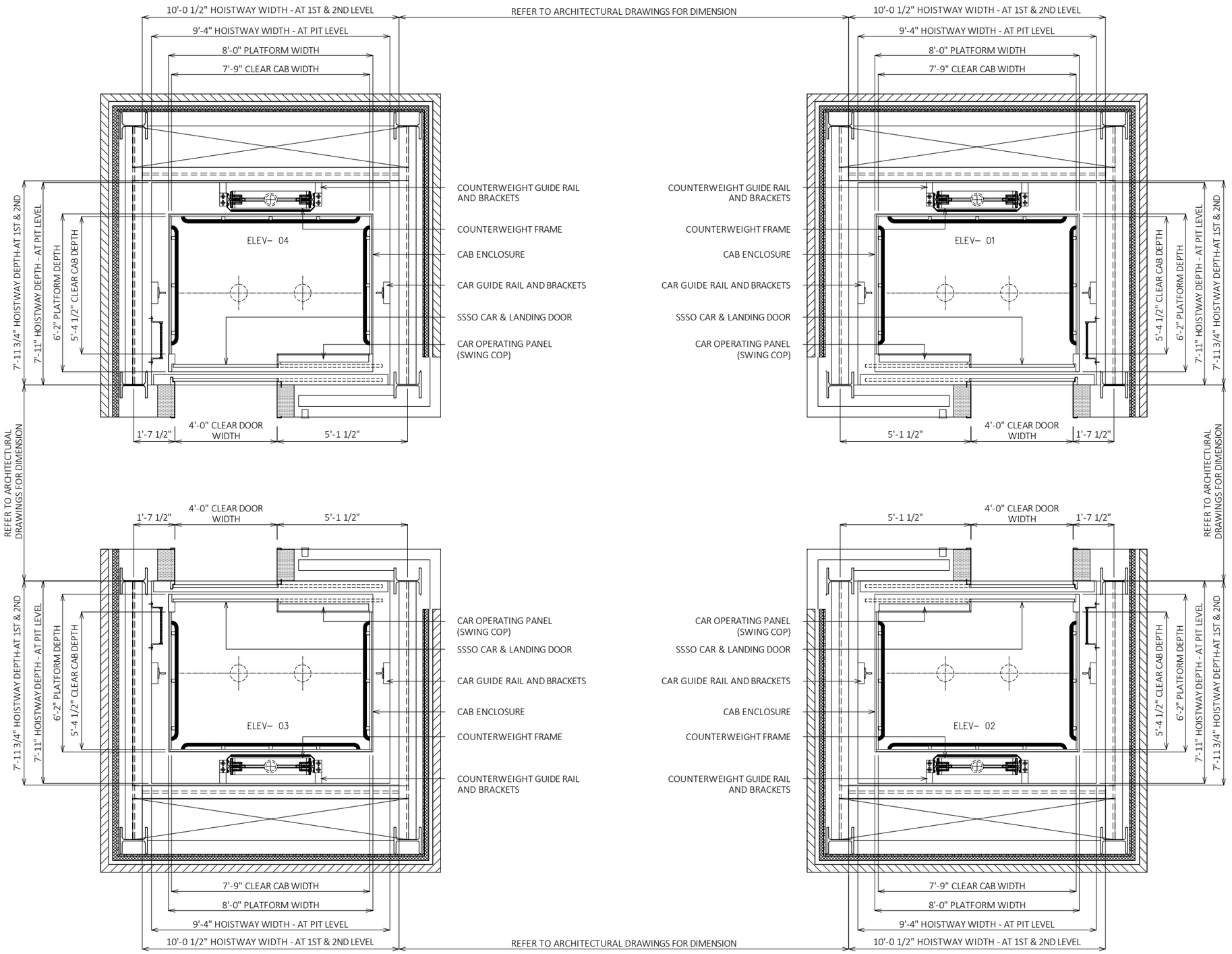
SHEET VT-100

PRE_312

SCALE = AS NOTED

STATE PROJECT NUMBER

1000–57–05



1 VT-101 ELEVATORS 01-04 - HOISTWAY PLAN

SCALE: 1/4"=1'-0"

0 2 4 8 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY LD | PLANS CK'D. SY

ELEV. 01–04, HOISTWAY PLAN VIEW

SHEET VT–101

PRE_313

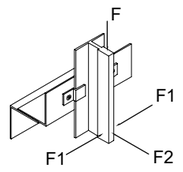
SCALE = AS NOTED

8

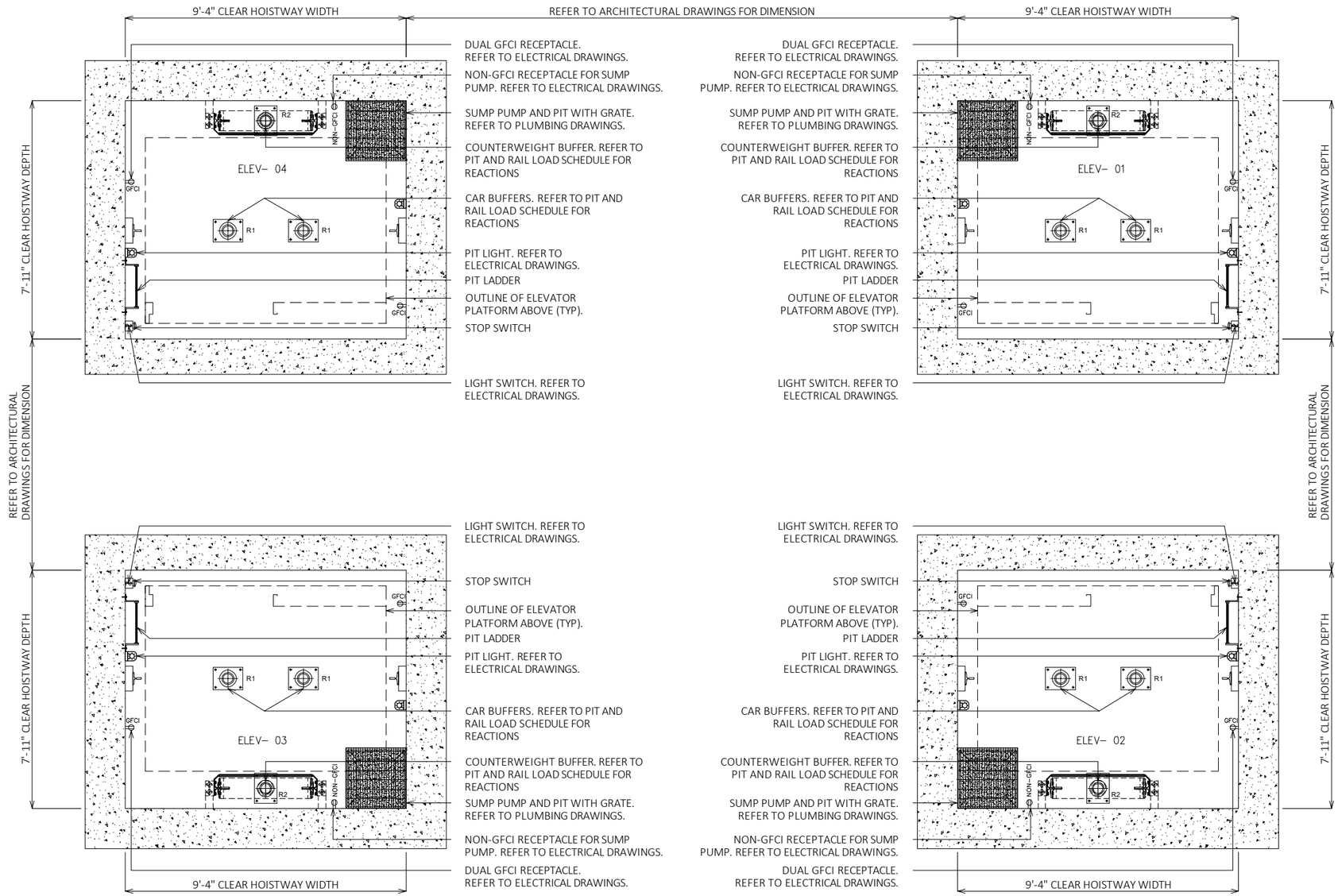
8

STATE PROJECT NUMBER
1000–57–05

ELEVATOR STRUCTURAL REACTIONS - EACH CAR						
PIT LOADS (DOUBLED FOR IMPACT)		GUIDE RAIL LOADS				
R1 (NOTE 1) (CAR BUFFER)	R2 (NOTE 1) (CWT BUFFER)	NORMAL FORCES (EACH RAIL)			SEISMIC FORCES (EACH RAIL)	
		F1	F2	F (NOTE 1&2)	F1	F2
27,300 lbf. (PER BUFFER)	41,400 lbf. (PER BUFFER)	500 lbf.	200 lbf.	14,000 lbf.	N/A	N/A
NOTE 1: LOADS SHOWN DO NOT ACT SIMULTANEOUSLY.						
NOTE 2: "F" LOAD AT PIT UNDER GUIDE RAILS INCLUDES IMPACT LOAD DUE TO SAFETY APPLICATION.						



RAIL LOAD DIAGRAM



1 VT-102 **ELEVATORS 01-04 - PIT PLAN**

SCALE: 1/4"=1'-0"

0 2 4 8 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY LD | PLANS CK'D. SY

ELEV. 01–04, PIT PLAN VIEW

SHEET VT–102

PRE_314

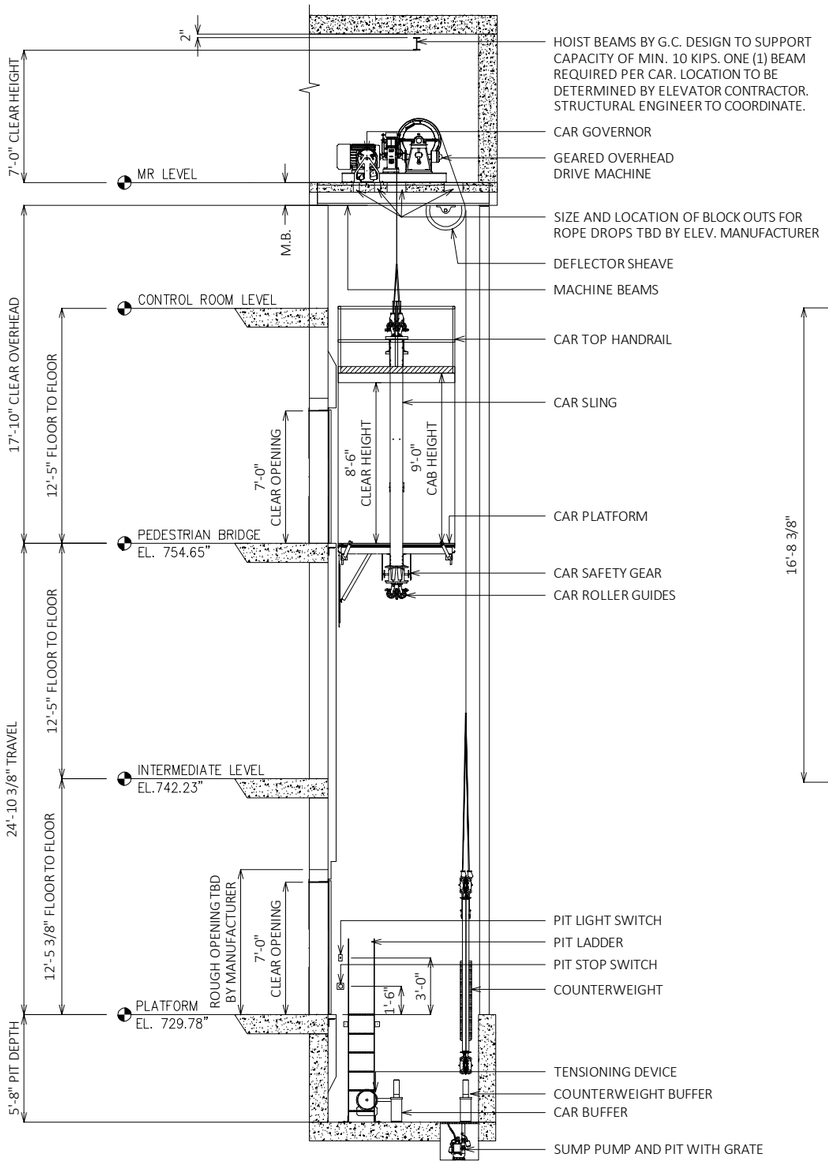
SCALE = AS NOTED

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8

STATE PROJECT NUMBER

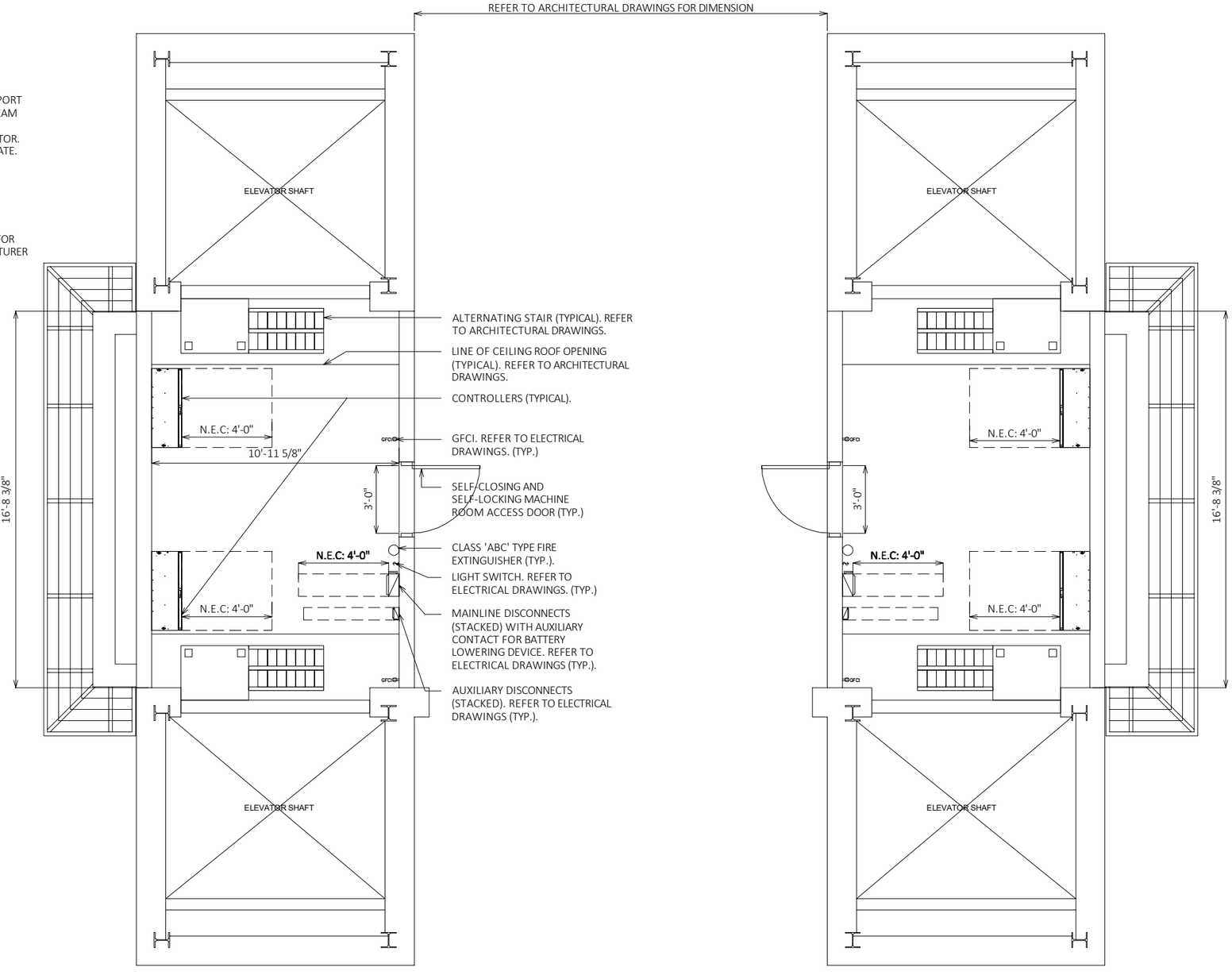
1000-57-05



2 VT-103 **ELEVATORS 01-04, HOISTWAY ELEVATION**

SCALE: 1/8"=1'-0"

0 4 8 16 FT



1 VT-103 **ELEVATORS 01-04, CONTROL ROOM PLAN**

SCALE: 3/16"=1'-0"

0 2 4 8 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY	LD	PLANS CK'D.	SY

ELEV. 01-04, ELEVATION & CONTROL ROOM

SHEET VT-103

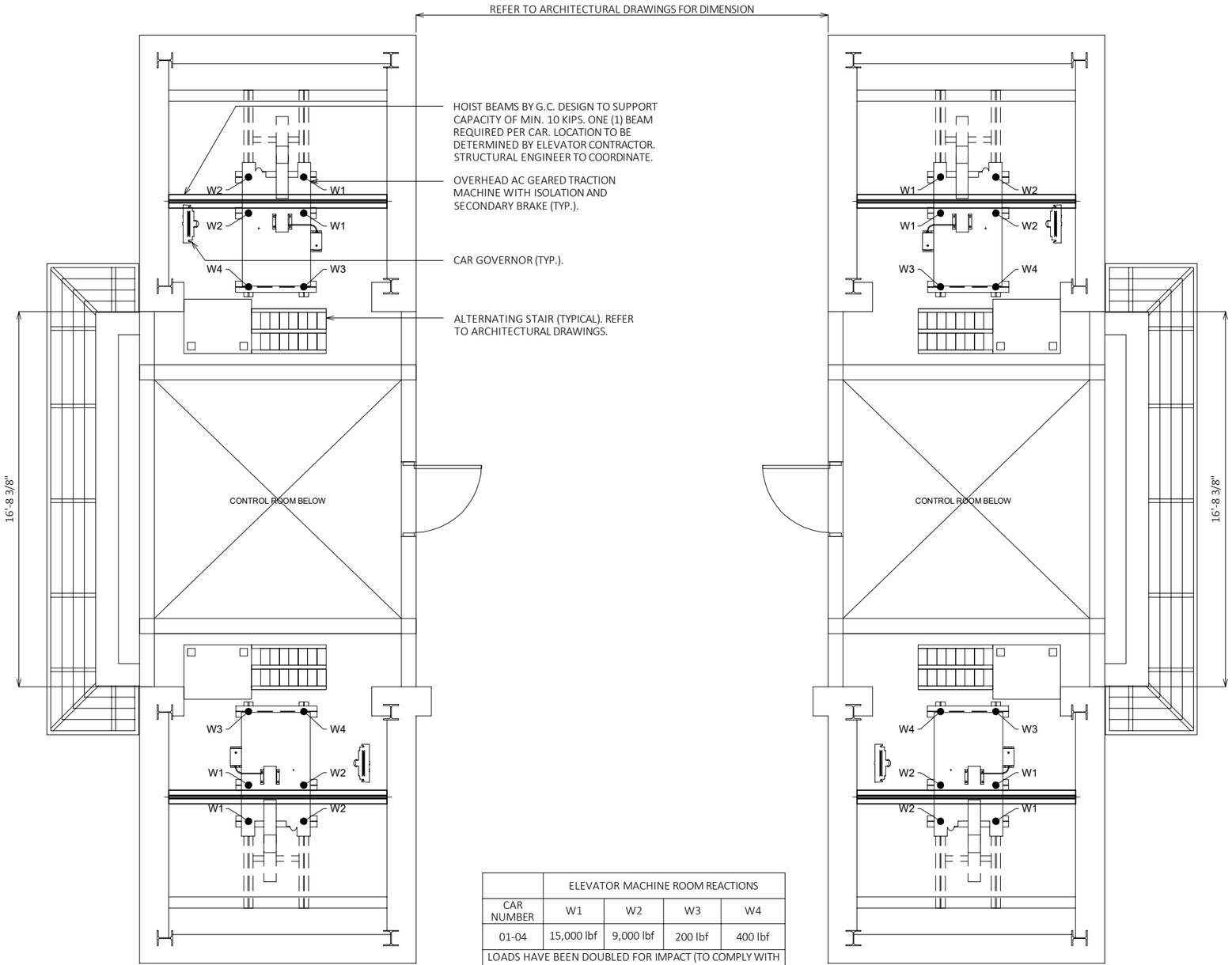
PRE_315

SCALE = AS NOTED

8

8

STATE PROJECT NUMBER
1000-57-05



	ELEVATOR MACHINE ROOM REACTIONS			
CAR NUMBER	W1	W2	W3	W4
01-04	15,000 lbf	9,000 lbf	200 lbf	400 lbf
LOADS HAVE BEEN DOUBLED FOR IMPACT (TO COMPLY WITH SECTION 2.9.2 OF A17.1 CODE)				

1 VT-104 ELEVATORS 01-04, MACHINE ROOM PLAN

SCALE: 3/16"=1'-0"

0 2 4 8 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

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ELEV. 01-04, MACHINE ROOM PLAN

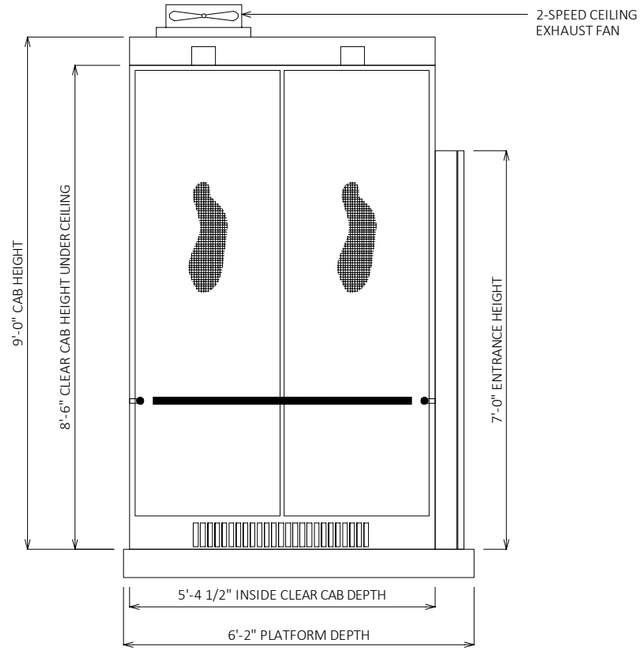
SHEET VT-104

PRE_316

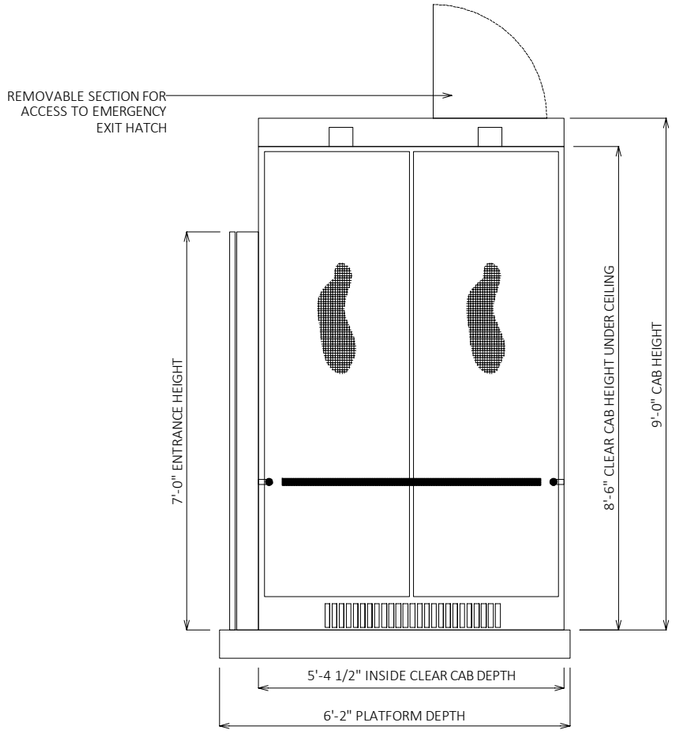
SCALE = AS NOTED

STATE PROJECT NUMBER

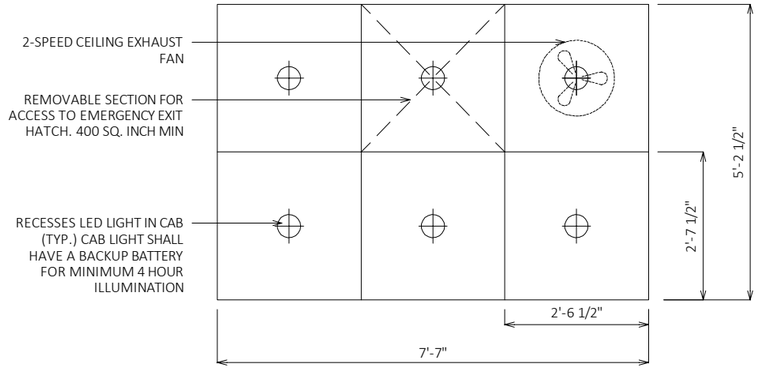
1000-57-05



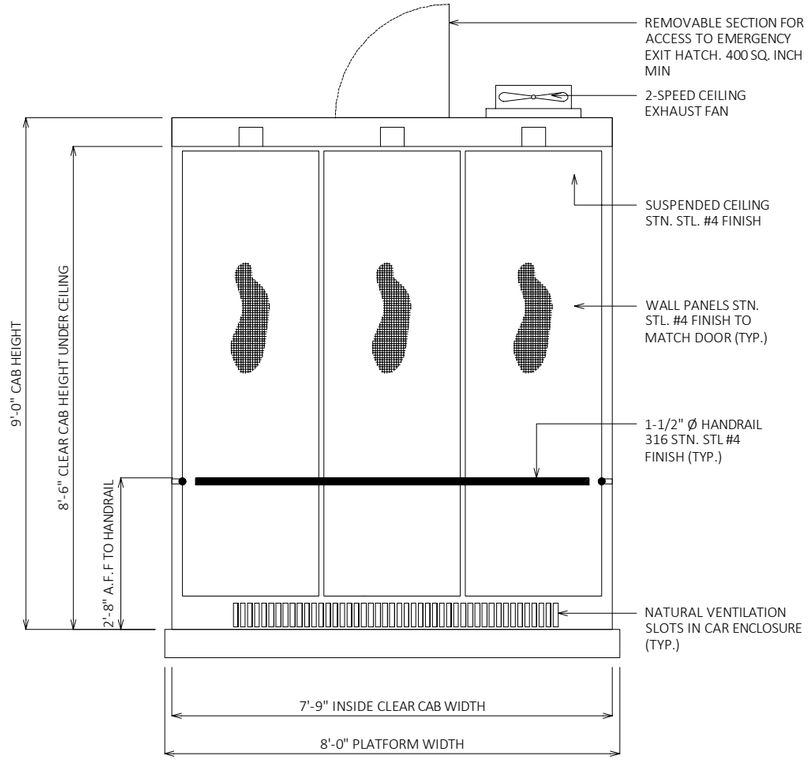
4 VT-201 **CAB ELEVATION "C"**
SCALE: 3/8"=1'-0" 0 1 2 4 FT



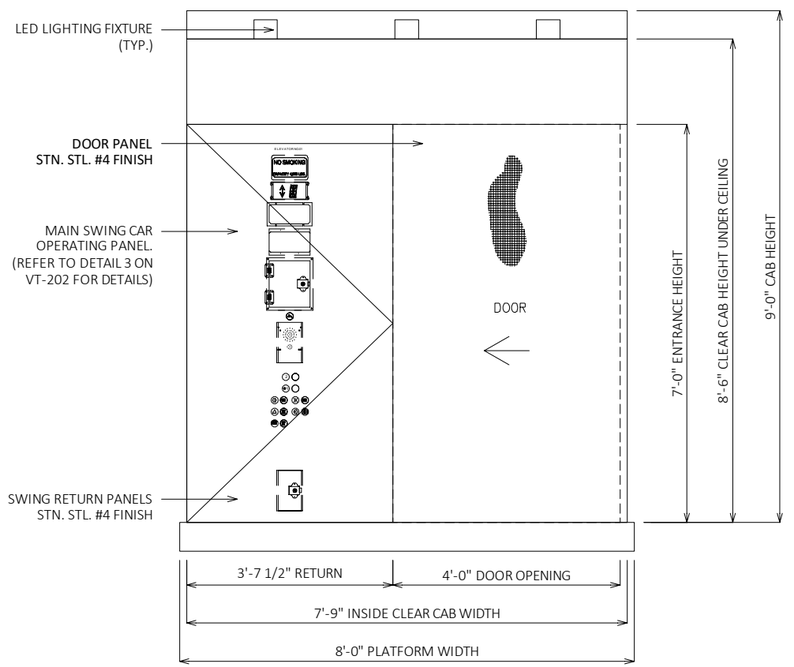
5 VT-201 **CAB ELEVATION "A"**
SCALE: 3/8"=1'-0" 0 1 2 4 FT



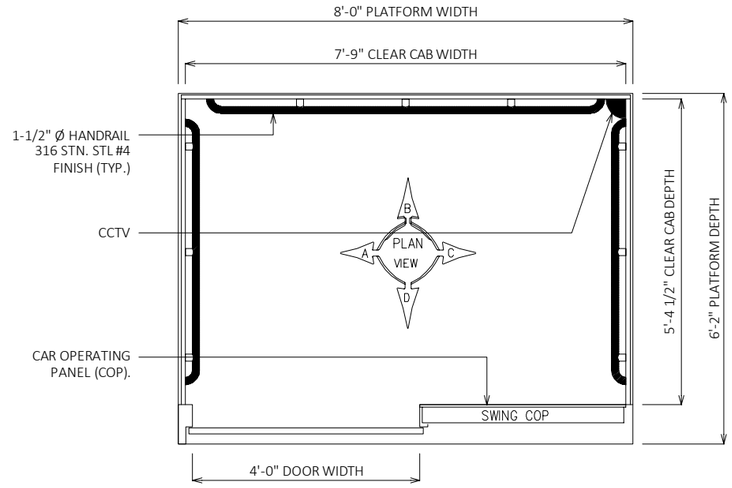
6 VT-201 **REFLECTED CEILING PLAN**
SCALE: 3/8"=1'-0" 0 1 2 4 FT



3 VT-201 **CAB ELEVATION "B"**
SCALE: 3/8"=1'-0" 0 1 2 4 FT



2 VT-201 **CAB ELEVATION "D"**
SCALE: 3/8"=1'-0" 0 1 2 4 FT



1 VT-201 **ELEVATORS 02 & 04 (01 & 02 MIRRORED) CAB PLAN**
SCALE: 3/8"=1'-0" 0 1 2 4 FT

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

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ELEV. 01-04, CAB PLAN AND SECTION

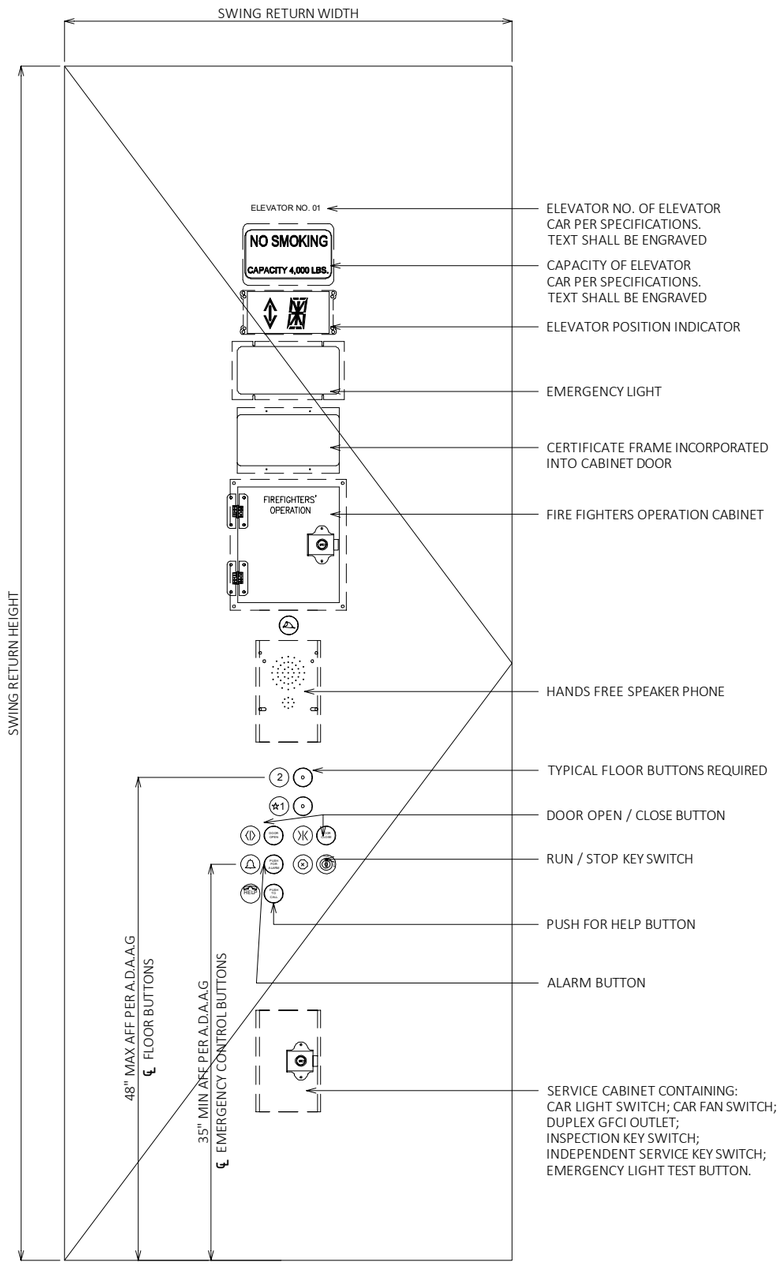
SHEET VT-201

PRE_317

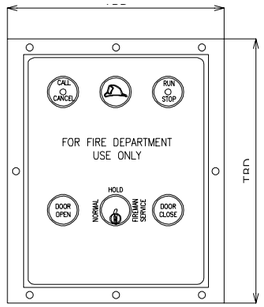
SCALE = AS NOTED

STATE PROJECT NUMBER

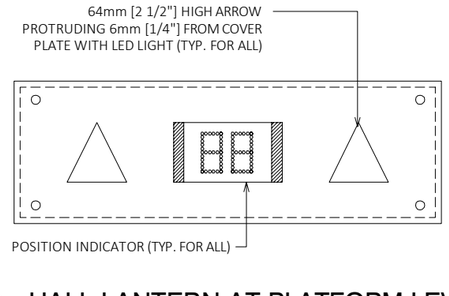
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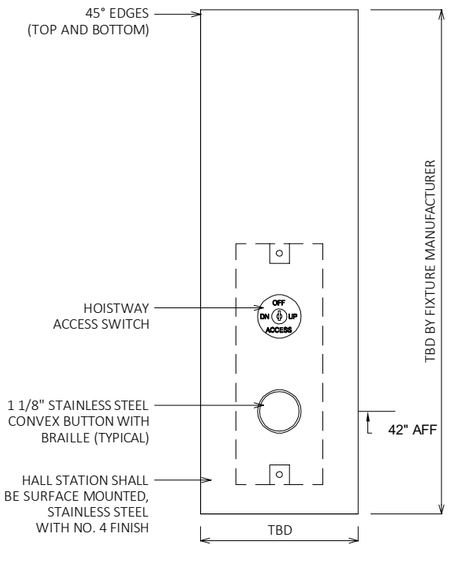
3 VT-202 MAIN CAR OPERATING PANEL (SWING COP)
SCALE: N.T.S



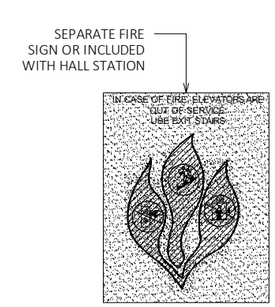
6 VT-202 FIRE SERVICE SUB-PANEL DETAIL
SCALE: N.T.S



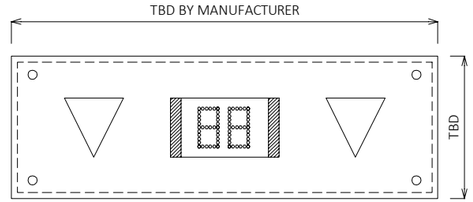
4 VT-202 HALL LANTERN AT PLATFORM LEVEL
SCALE: N.T.S



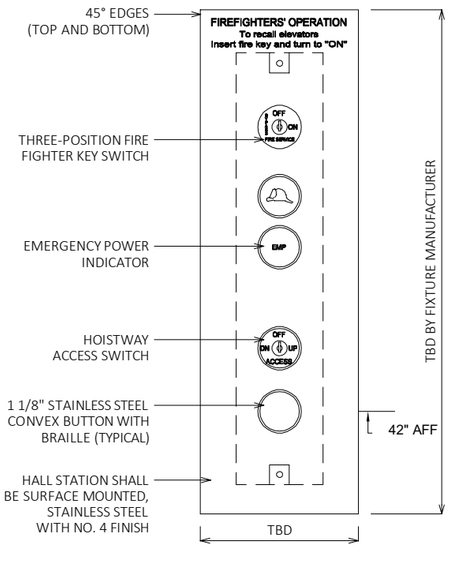
2 VT-202 HALL CALL STATION AT PEDESTRIAN BRIDGE LEVEL
SCALE: N.T.S



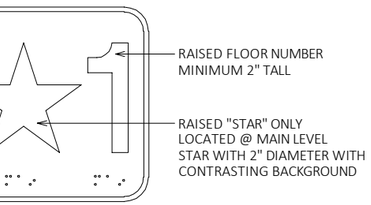
7 VT-202 FIRE SIGN DETAIL
SCALE: N.T.S



5 VT-202 HALL LANTERN AT PEDESTRIAN BRIDGE LEVEL
SCALE: N.T.S



1 VT-202 HALL CALL STATION AT PLATFORM LEVEL
SCALE: N.T.S



8 VT-202 JAMB TAGS DETAIL
SCALE: N.T.S

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

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ELEV. 01-04, FIXTURE DETAILS

SHEET VT-202

PRE_318

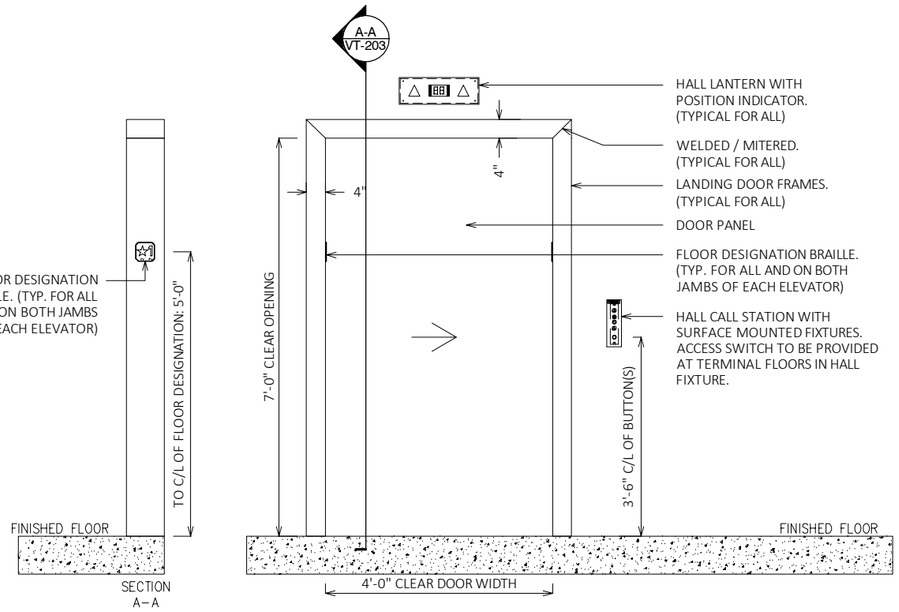
SCALE = AS NOTED

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8

STATE PROJECT NUMBER

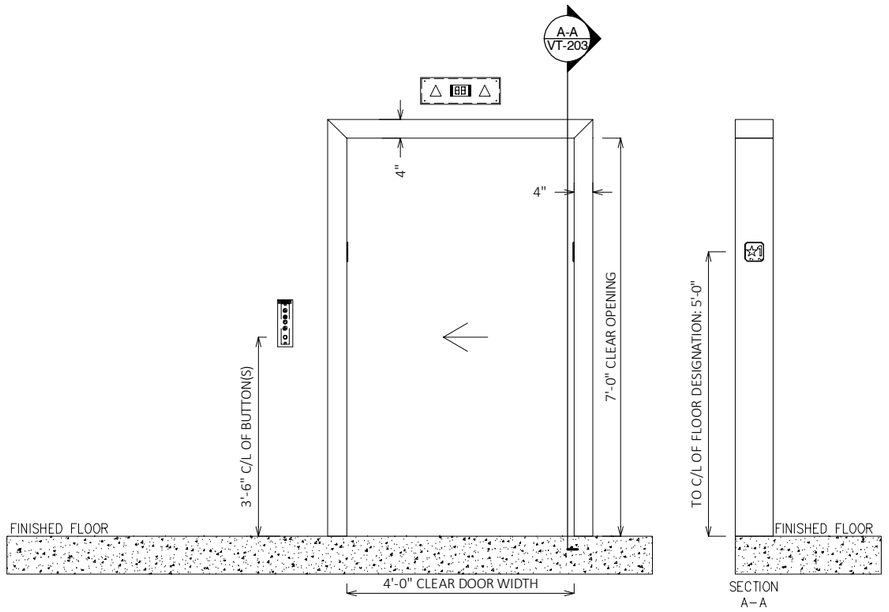
1000-57-05



3 VT-203 ELEVATOR 04 - ENTRANCE ELEVATION VIEW

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

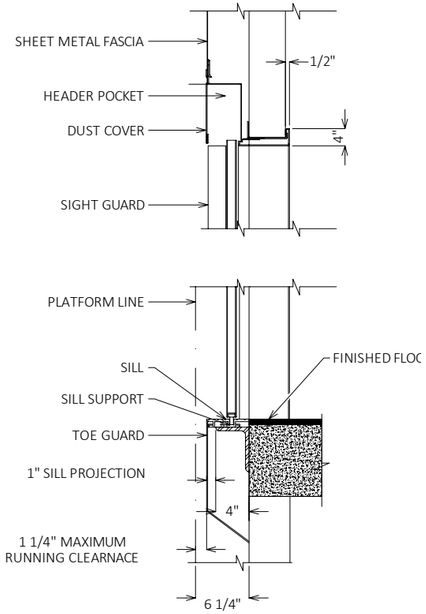
0 1 2 4 FT



4 VT-203 ELEVATOR 01 - ENTRANCE ELEVATION VIEW

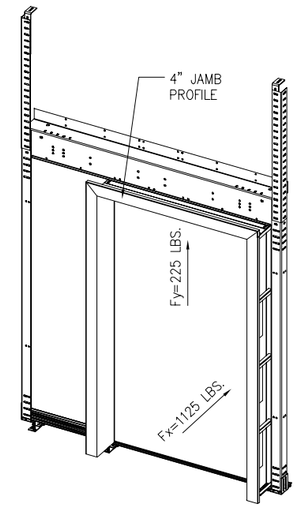
SCALE: 3/8"=1'-0"

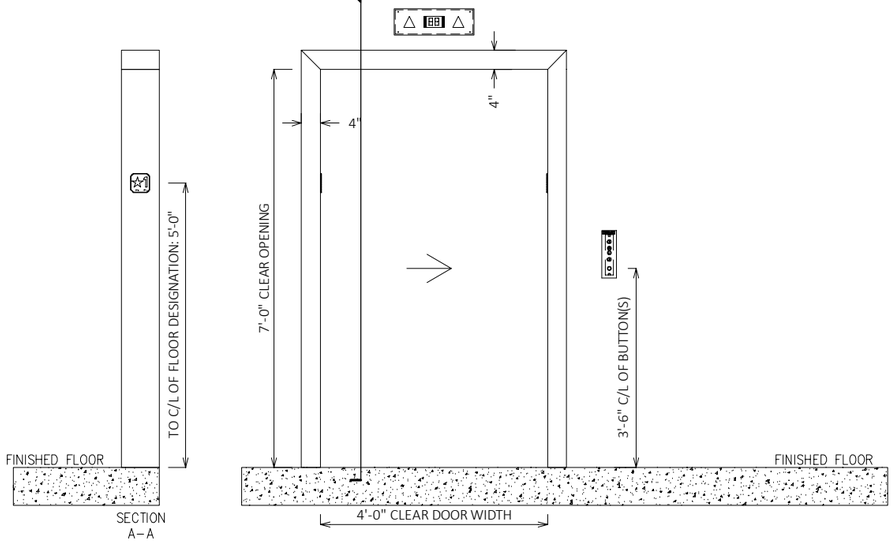
0 1 2 4 FT



5 VT-203 ENTRANCE TYP.

SCALE: N.T.S

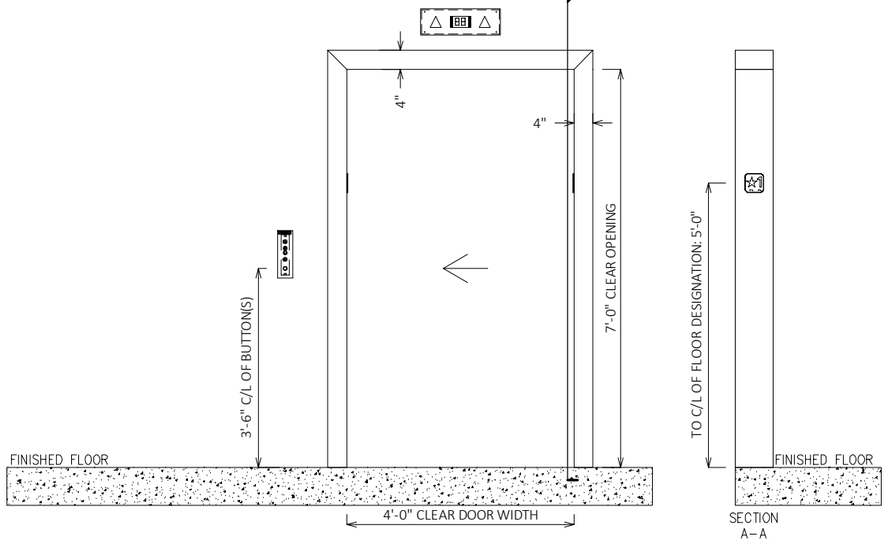




2 VT-203 ELEVATOR 02 - ENTRANCE ELEVATION VIEW

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

0 1 2 4 FT



1 VT-203 ELEVATOR 03 - ENTRANCE ELEVATION VIEW

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

0 1 2 4 FT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

DRAWN BY	LD	PLANS CK'D.	SY

ELEV. 01-04, ENTRANCE VIEW

SHEET VT-203

PRE_319

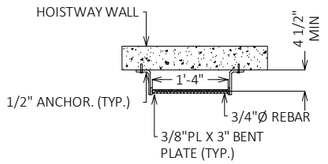
SCALE = AS NOTED

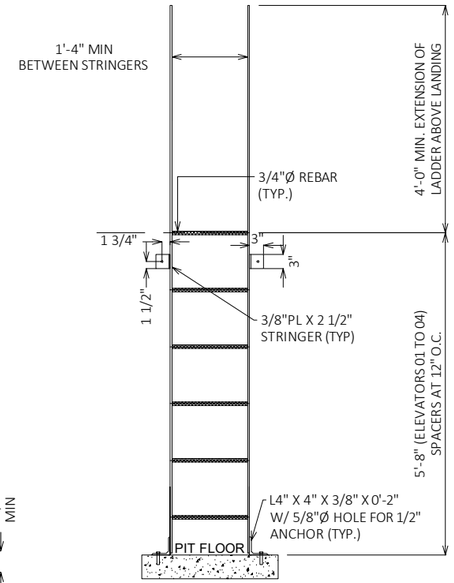
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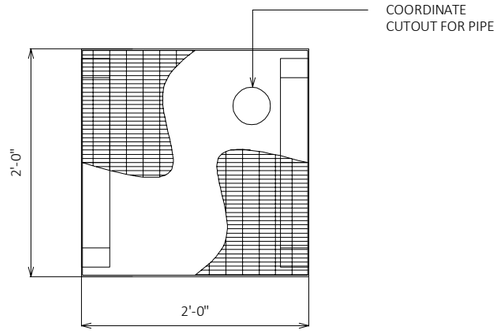
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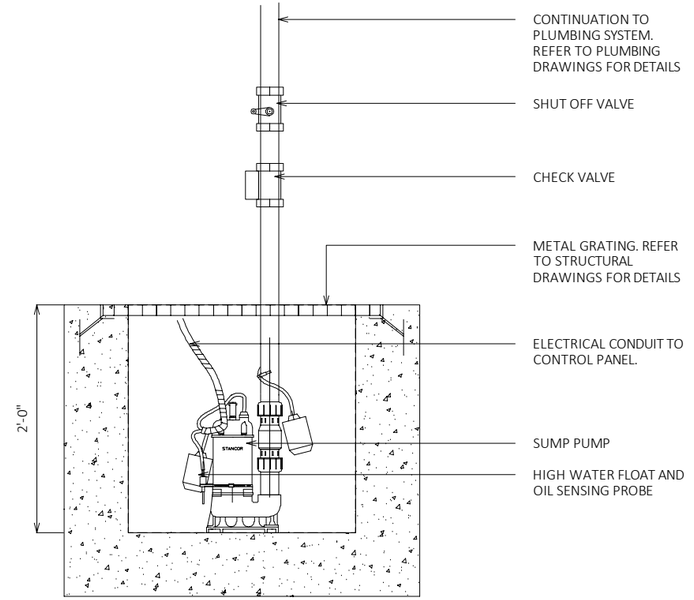
STATE PROJECT NUMBER

1000-57-05







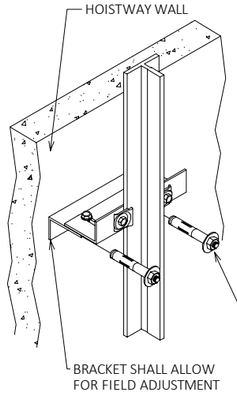


3 VT-204 **PIT LADDER DETAIL**
SCALE: 3/8"=1'-0"

4 VT-204 **PIT LADDER ELEVATION DETAIL**
SCALE: 3/8"=1'-0"

5 VT-204 **TYPICAL PLAN OF SUMP PIT**
SCALE: N.T.S

6 VT-204 **SIMPLEX SUMP PIT DETAIL**
SCALE: N.T.S

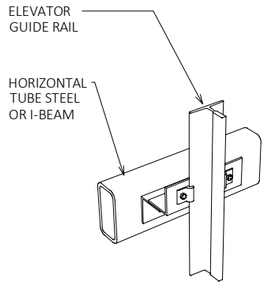


NOTES:

RAIL BRACKET FASTENING SURFACE SHALL WITHSTAND THE RAIL FORCES SHOWN IN THE REACTION TABLE ON PAGE VT-102.

BRACKET SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED STEEL.

BRACKET LOCATIONS SHALL BE COORDINATED BETWEEN ALL CONTRACTORS.



NOTES:

RAIL BRACKET FASTENING SURFACE SHALL WITHSTAND THE RAIL FORCES SHOWN IN THE REACTION TABLE ON PAGE VT-102.

BRACKET SHALL BE STAINLESS STEEL OR HOT DIP GALVANIZED STEEL.

BRACKET LOCATIONS SHALL BE COORDINATED BETWEEN ALL CONTRACTORS.

RAIL BRACKETS TO BE FIELD WELDED TO BUILDING BEAM IN LOCATION SHOWN IN STRUCTURAL DRAWINGS.

2 VT-204 **RAIL BRACKET FASTENING DETAIL (CONCRETE WALL)**
SCALE: 3/8"=1'-0"

1 VT-204 **RAIL BRACKET FASTENING DETAIL (STEEL BEAM)**
SCALE: 3/8"=1'-0"

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

VERTICAL TRANSPORTATION

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ELEV. 01-04, MISCELLANEOUS DETAILS

SHEET VT-204

PRE_320

SCALE = AS NOTED

WISCONSIN DEPARTMENT OF TRANSPORTATION

EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a “PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

a. With the plan open in Acrobat, select Document > Insert Pages.
b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
c. In the Insert dialog box, choose After for Location and Last page for Page.
d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

a. Go to the last sheet of the plan.
b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

Place Preliminary Sheet Numbers

TO REMOVE PRELIMINARY SHEET NUMBERS

Remove