

CITY PARK TRAIN HUB

Locomotive Refurbishment & Pavilion Replacement
at Hagerstown Railroad Museum

CITY OF HAGERSTOWN, MARYLAND

730 City Park Drive

Hagerstown, Washington County, Maryland 21740

CONTACT LIST:

ARCHITECT: PROFFITT & ASSOCIATES ARCHITECTS 49 SOUTH CARROLL STREET FREDERICK, MD 21701 TEL.: (301)-662-8532 FAX: (301)-662-4192	PRESERVATION CONSULTANT: STRASBURG RAIL ROAD COMPANY 301 GAP ROAD RANKS, PA 17572 TEL.: (717)-687-8421 FAX: (717)-687-6194	CIVIL: FOX & ASSOCIATES, INC. 981 MOUNT AETNA ROAD HAGERSTOWN, MD 21740 TEL.: (301)-733-8503 FAX: (301)-733-1853	STRUCTURAL: ADTEK ENGINEERS, INC. 150 SOUTH EAST STREET, SUITE 203 FREDERICK, MD 21701 TEL.: (301)-662-4408	MECH / ELEC. / PLUMBING: CJL ENGINEERING COMPANY, INC. 5285 WESTVIEW DRIVE, SUITE 203 FREDERICK, MD 21703 TEL.: (301)-695-9424 FAX: (301)-293-6338
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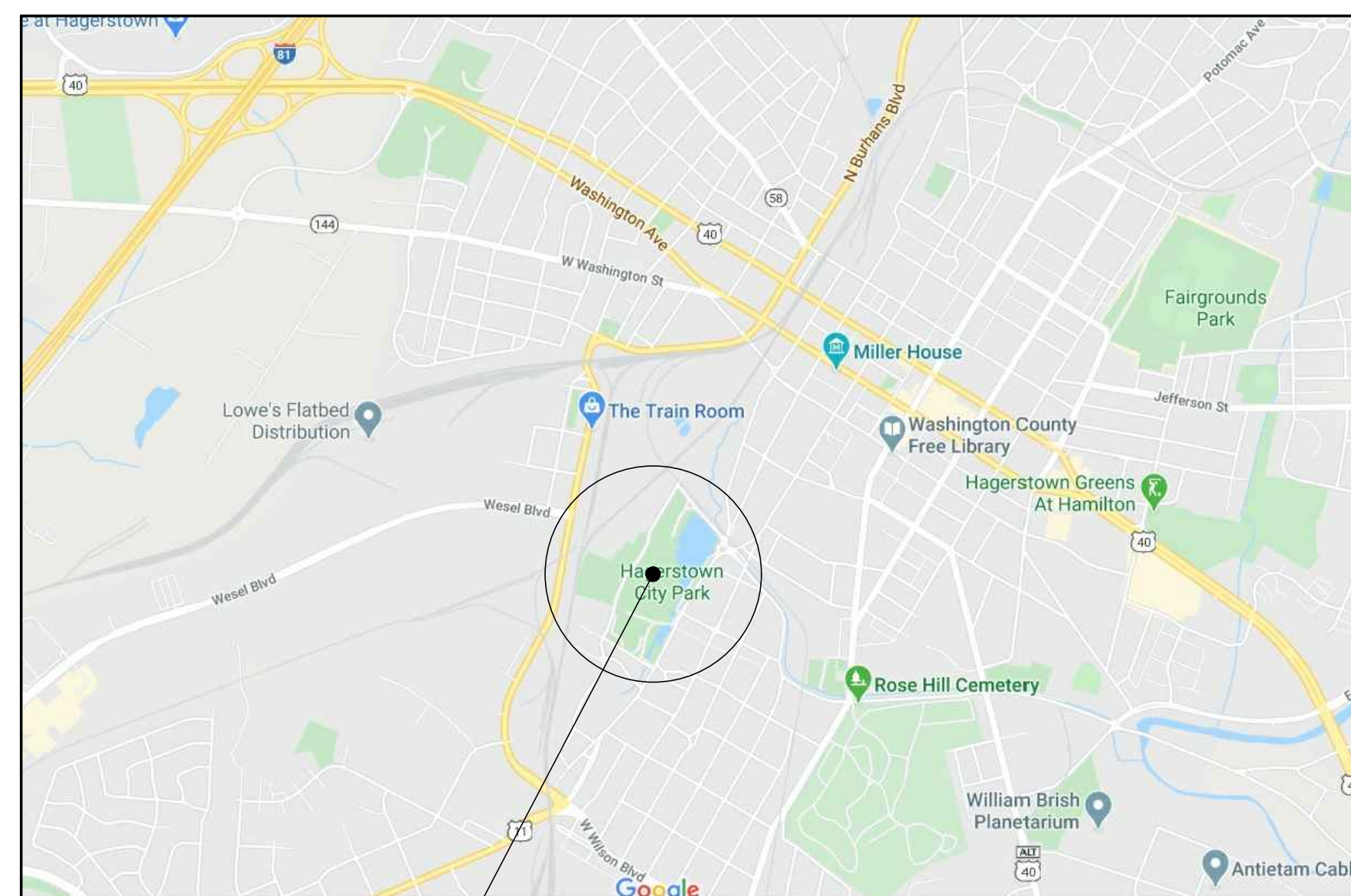
CONTRACT NUMBERS:

CITY CONTRACT: 20-CPTH-33
STATE HIGHWAY CONTRACT: WA061B51
F.A.P. CONTRACT: AC-TAP-3(910)E

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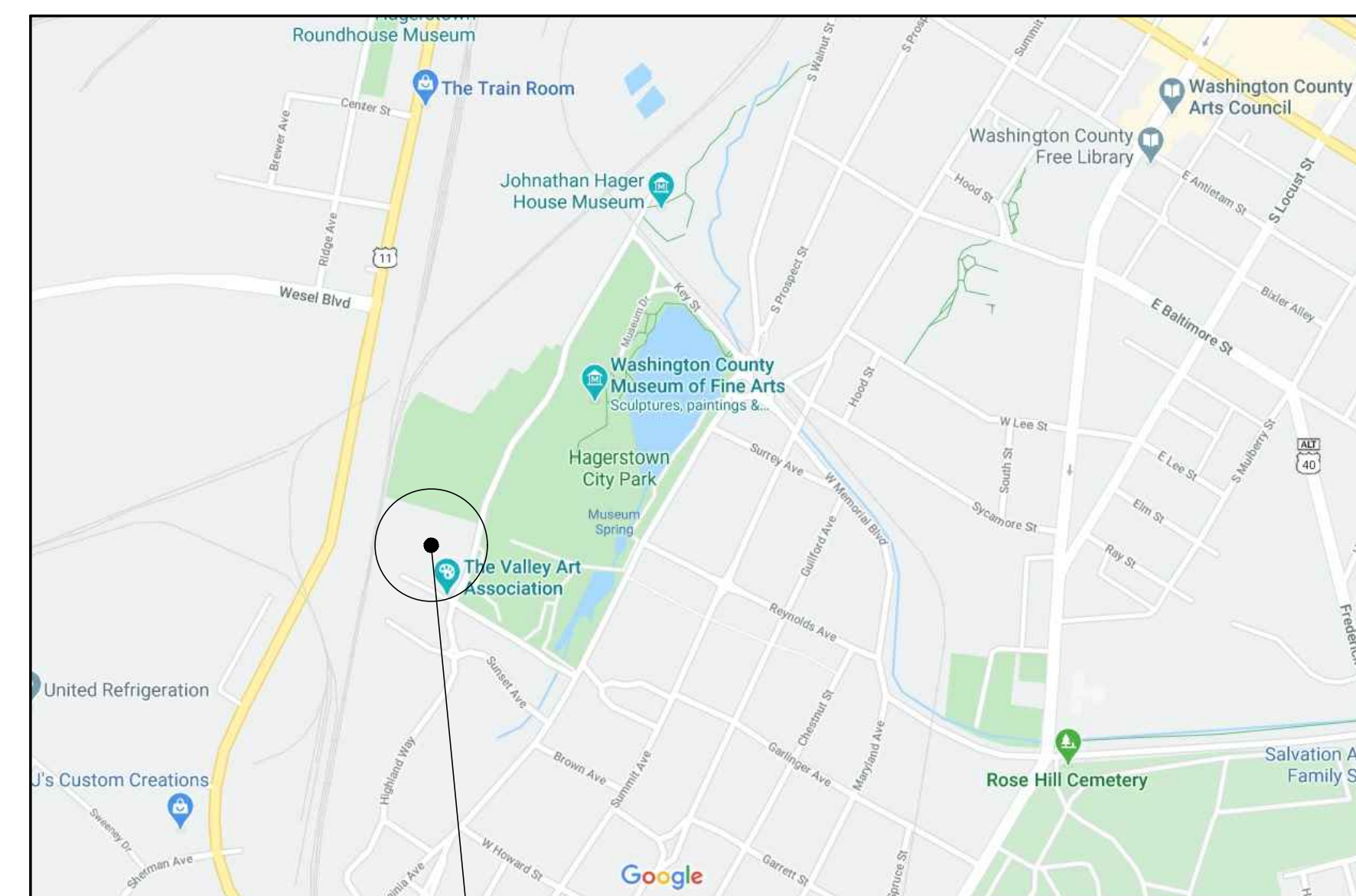
VICINITY MAP:



HAGERSTOWN CITY PARK - SEE LOCATION MAP

VICINITY MAP
NOT TO SCALE

LOCATION MAP:



HAGERSTOWN RAILROAD MUSEUM
AT HAGERSTOWN CITY PARK
525 HIGHLAND AVE. AT CITY
PARK DRIVE

LOCATION MAP
NOT TO SCALE

APPLICABLE CODES:

AUTHORITY HAVING JURISDICTION: CITY OF HAGERSTOWN, MARYLAND
2018 INTERNATIONAL BUILDING CODE (IBC)
MARYLAND FIRE PREVENTION CODE AND 2018 NFPA 101 LIFE SAFETY CODE
2011 NATIONAL ELECTRICAL CODE (NEC)
2018 INTERNATIONAL ENERGY CONSERVATION CODE AS AMENDED IN MD CODE
2018 INTERNATIONAL MECHANICAL CODE (IMC) WITH LOCAL AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE (IPC) WITH LOCAL AMENDMENTS
MARYLAND ACCESSIBILITY CODE
2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)

LEGEND:

	BRICK
	CMU
	CONCRETE
	FINISHED WOOD
	ROUGH WOOD
	PLYWOOD
	METAL
	GYPSUM BOARD
	RIGID INSULATION
	BATT INSULATION
	WINDOW OPENING
	DOOR / FRAME SEE SCHEDULE
	ROOM NAME ROOM NUMBER
	COLUMN REFERENCE
	DETAIL NUMBER
	DIRECTION OF VIEW
	ELEVATION NUMBER
	SECTION NUMBER
	WALL TYPE
	REVISION NOTE
	KEY NOTE
	HEIGHT INDICATOR (ABOVE FINISHED FLOOR ABOVE SEA LEVEL)
	INTERIOR ELEVATION KEY: ELEVATION INDICATOR SHEET TO LOCATE ELEVATION DIRECTION OF VIEW

ABBREVIATIONS:

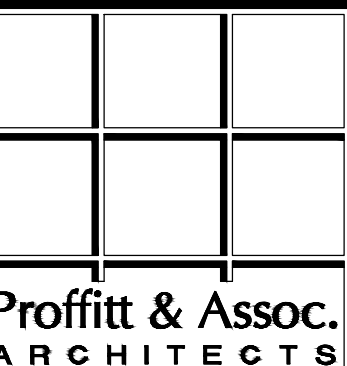
ANGLE	ANGLE	JAN.	JANITOR
ACOUS.	ACOUSTIC	JT.	JOINT
ACT	ACOUSTICAL CEILING TILE	LAM.	LAMINATE
ADJ	ADJUSTABLE	LAV.	LAVATORY
ADJ.	ADJUSTABLE	LN.	LINEAR FEET
A.F.F.	ABOVE FINISHED FLOOR	L6.	LONG
AIR COND.	AIR CONDITIONING	L.L.H.	LONG LEG HORIZONTAL
ALT.	ALTERNATE	L.L.V.	LONG LEG VERTICAL
ALUM.	ALUMINUM	MAS.	MASONRY
ANCH.	ANCHORED	MATL.	MATERIAL
A.P.	ACCESS PANEL	MAX.	MAXIMUM
APPROX.	APPROXIMATE	MECH.	MECHANICAL
ARCH.	ARCHITECT	MFR.	MANUFACTURER
BD.	BOARD	MIN.	MINIMUM
BIT.	BITUMINOUS	MISC.	MISCELLANEOUS
BLDG.	BUILDING	M.O.	MASONRY OPENING
BLK'G	BLOCKING	MTD.	MOUNTED
B.O.F.	BOTTOM OF FOOTING	MTL.	METAL
BOT.	BOTTOM	NAT.	NATURAL
BRG.	BEARING	N.C.	NOT IN CONTRACT
		NO.	NUMBER
		NOM.	NOMINAL
		N.T.S.	NOT TO SCALE
		OA.	OVERALL
		O/C.	ON CENTER
		O.D.	OUTSIDE DIMENSION
		OH.	OVERHANG
		O/O.	OUT TO OUT
		OP.	OPPOSITE
		OPF.	OPPOSITE
		PGB.	PAINTED GYPSUM BOARD
		PL.	PLATE
		PLAS. LAM.	PLASTIC LAMINATE
		PLYWD.	PLYWOOD
		POL.	POLISHED
		PREFAB.	PREFABRICATED
		PREFIN.	PREFINISHED
		FR.	FRAMING TREATED
		FT.	FOOTING
		FTD.	FINISHED
		P.V.C.	POLYVINYL CHLORIDE
		R.	RISERS
		R.D.	ROOF DRAIN
		RECEPT.	RECEPTACLE
		REINFORC.	REINFORCING
		REQ'D.	REQUIRED
		REV.	REVISED
		RM.	ROOM
		R.O.	ROUGH OPENING
		SCHED.	SCHEDULE
		SECT.	SECTION
		SHT.	SHEET
		SIM.	SIMILAR
		S.M.P.	SOLID MASONRY PIER
		SPEC'S.	SPECIFICATIONS
		SQ.	SQUARE
		ST. STL.	STAINLESS STEEL
		STD.	STANDARD
		STL.	STEEL
		STOR.	STORAGE
		STRUC.	STRUCTURAL
		SUSP.	SUSPENDED
		SYM.	SYMMETRICAL
		T.	TREAD
		T&G	TONGUE & GROOVE
		TEL.	TELEPHONE
		THK.	THICKNESS
		THRU.	THROUGH
		T.O.S.	TOP OF SLAB
		T.O.STL.	TOP OF STEEL
		TYP.	TYPICAL
		U.O.N.	UNLESS OTHERWISE NOTED
		VAR.	VARIABLE
		V.C.T.	VERTICAL COMPOSITION TILE
		VERT.	VERTICAL
		VEST.	VESTIBULE
		V.I.F.	VERIFY IN FIELD
		V.M.C.	VINYL WALL COVERING
		W.	WITH
		W.D.	WOOD
		W.D.N.	WOOD NAIL
		WGT.	WEIGHT
		W/O	WITHOUT
		W.P.	WEATHERPROOF
		WVF	WELDED WIRE FABRIC

GENERAL NOTES:

- CONTRACTOR SHALL CAREFULLY EXAMINE THE PERMIT DOCUMENTS ACQUAINT THEMSELVES WITH ALL GOVERNING LAWS AND CODES, IS RECOMMENDED TO VISIT THE SITE AND THOROUGHLY FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS BEFORE SUBMITTING PRICING.
- ALL WORK DESCRIBED WITHIN THE CONTRACT DOCUMENTS SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO, THE CURRENT BUILDING CODE, LIFE SAFETY CODE, ADAAG, AS WELL AS ORDINANCES AND REGULATIONS AND OTHER BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- ALL MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND WARRANTY REQUIREMENTS.
- INDIVIDUAL SUBCONTRACTORS FOR ANY PLUMBING, ELECTRICAL, AND MECHANICAL WORK SHALL OBTAIN ALL NECESSARY PERMITS, INSPECTIONS, ETC., AND PERFORM ALL WORK IN CONFORMANCE TO ALL LOCAL CODES.
- DISTURB AS SMALL AN AREA OF THE SITE AS POSSIBLE DURING CONSTRUCTION OPERATIONS, UNLESS OTHERWISE NOTED, PREPARE AND SEED DISTURBED AREAS AT THE COMPLETION OF THE PROJECT.
- REPAIR ALL AREAS DISTURBED BY THE WORK OF THIS PROJECT, INCLUDING SUBSTRATES OR STRUCTURAL REPAIRS, AND REPAIRS TO FINISHES TO MATCH AND ALIGN WITH EXISTING FINISHES TO REMAIN OR NEW FINISHES INSTALLED.
- THE JOB SITE IS TO BE LEFT CLEAN AND FREE FROM DEBRIS AT ALL TIMES.
- UNLESS OTHERWISE NOTED, ALL WORK IS CONSIDERED TO BE NEW CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING, BRACING, AND TAKE OTHER PRECAUTIONS NECESSARY FOR SAFETY AS REQUIRED BY CODE AND GOOD PRACTICE.
- CONTRACTOR SHALL SUPPLY ALL NECESSARY ANCHORS, TIES, CLIPS, HANGERS, BOLTS, AND OTHER FASTENING DEVICES AS REQUIRED BY CODE AND GOOD PRACTICE.
- CONTRACTOR SHALL PROVIDE SEALANT AROUND WINDOWS, DOOR JAMBES AND HEADS, AND ADJACENT CONSTRUCTION.
- EXISTING BUILDINGS AND LOCOMOTIVE INFORMATION IS BASED ON INFORMATION PROVIDED BY OTHERS AND PROFFITT & ASSOCIATES ARCHITECTS' FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO SUBMITTING SHOP DRAWINGS AND BEFORE CONSTRUCTION AND FABRICATION OF MATERIALS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES FROM THE INFORMATION PROVIDED IN A TIMELY MANNER.
- DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK AND IS PARTIALLY DIAGRAMMATIC. IT SHALL NOT BE SCALED FOR DIMENSIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS.
- DIMENSIONS, NOTES, FINISHES AND FIXTURES SHOWN ON TYPICAL PLANS, SECTIONS OR DETAILS SHALL APPLY TO SIMILAR, SYMMETRICAL, OR OPPOSITE PLANS, SECTIONS OR DETAILS.
- REFER TO THE GENERAL SPECIFICATIONS FOR MORE INFORMATION.

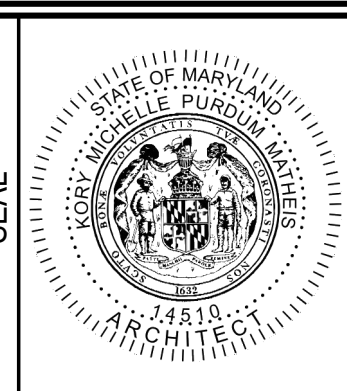
NOTE: ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST APPROVED MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION (MDOT SHA) "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS" REVISIONS THEREOF OR ADDITIONS THERETO, AS INDICATED IN THE PROJECT DESCRIPTION OF THE INVITATION FOR BIDS BOOK; THE SPECIAL PROVISIONS INCLUDED IN THE INVITATION FOR BIDS BOOK; THE ADMINISTRATIONS' BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES' AND THE LATEST ADOPTED MDMUTCD.

3rd SUBMISSION - 100% CONSTRUCTION DOCUMENTS
AND LOCOMOTIVE REHAB PLANS



49 SOUTH CARROLL STREET
FREDERICK, MARYLAND 21701
PHONE (301) 662-8532
FAX (301) 662-4192
info@proffittandassociates.com

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT OF THE STATE OF MARYLAND.
LICENSE No. 14510
EXPIRATION DATE 03 / 07 / 2024



CITY PARK TRAIN HUB
LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
AT HAGERSTOWN RAILROAD MUSEUM
730 CITY PARK DRIVE,
HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740

ISSUE

REV.	DATE	DESCRIPTION

PROJECT NO.: 19-35
DATE: 05 / 23 / 2023

COVER SHEET

SHEET 62-219-001

A0.1

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL CITY OF HAGERSTOWN STANDARDS AND SPECIFICATIONS.
- INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATIONS AND ELEVATIONS OF THE UTILITIES IN ADVANCE OF TRENCHING.
- TOPOGRAPHY SHOWN HEREON WAS PROVIDED BY THE CITY OF HAGERSTOWN ENGINEERING DEPARTMENT.
- CONTRACTOR SHALL NOTIFY MISS UTILITY AT 1-800-257-7777 AND ALL UTILITIES WITH FACILITIES WITHIN THE PROJECT AREA FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING CONSTRUCTION.
- JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ANY CHANGES TO THE APPROVED SITE PLAN LAYOUT MUST FIRST BE APPROVED BY FOX & ASSOCIATES INC. AND THEN APPROVED BY THE CITY ENGINEERING AND PLANNING DEPARTMENTS.
- FOX & ASSOCIATES INC. HAS NOT PERFORMED ANY SUBSURFACE INVESTIGATIONS TO DETERMINE LOCATION OF ROCK, DIFFERENT SOIL TYPES, WATER TABLES, UTILITIES, ETC.
- SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITIES FOR THOSE CHANGES.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE FACILITIES OF THE CITY AND OTHER UTILITIES DURING CONSTRUCTION. EXCAVATION AND CONSTRUCTION SHALL BE PERFORMED WITH EXTREME CARE TO PREVENT DAMAGE TO FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF HAGERSTOWN AT 301-739-8577 A MINIMUM OF 48 HOURS BEFORE START OF CONSTRUCTION.
- ALL CONSTRUCTIONS AND SIGNAGE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.) FOR HANDICAP ACCESSIBILITY.
- CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241, STANDARDS FOR SAFEGUARDING CONSTRUCTION, ALTERNATIVES AND DEMOLITION OPERATIONS AND CHAPTER 16 OF NFPA 1, UNIFORMED FIRE CODE.
- THERE ARE NO BOARD OF ZONING APPEALS CASES APPLICABLE TO THIS PROJECT.
- THERE ARE NO WATER COURSES, MARSHES, WOODED AREAS, FLOOD PLAINS, ROCK OUTCROPS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS WITHIN THE PROJECTS DISTURBED AREA.
- THERE ARE NO WETLANDS PRESENT ON THE SUBJECT PROPERTY.
- THIS PROPERTY SHOWN HEREON IS NOT WITHIN THE 100 YEAR FLOOD PLAIN AS SHOWN ON FEMA PANEL 24043C-0138D, EFFECTIVE 8/15/17.
- AS-BUILT MYLARS SHALL BE PROVIDED TO THE CITY OF HAGERSTOWN AT THE COMPLETION OF THE PROJECT IF SO REQUIRED.
- THE SITE IS EXEMPT FROM FOREST CONSERVATION REQUIREMENTS DUE TO DISTURBED AREA LESS THAN 40,000 SQ. FT.
- ANY SPOIL AND/OR BORROW MUST COME FROM OR GO TO A SITE THAT HAS A CURRENT AND APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.

FIRE DEPT NOTES:

- CONSTRUCTION OCCURRING ON THIS SITE SHALL COMPLY WITH NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS, AND CHAPTER 16 OF NFPA 1, FIRE CODE.
 - NO OPEN AIR BURNING
 - A PERMIT IS REQUIRED FROM THE FIRE MARSHAL'S OFFICE BEFORE PERFORMING BURNING OPERATIONS.
 - FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED TO ALL BUILDINGS DURING CONSTRUCTION.
- NEW AND EXISTING BUILDINGS SHALL HAVE THE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY.
- ACCESS AROUND THE BUILDINGS FOR FIRE DEPARTMENT APPARATUS MUST BE MAINTAINED IN ACCORDANCE WITH NFPA 1, CHAPTER 18 TO INCLUDE UNOBSTRUCTED WIDTH OF NOT LESS THAN 20' AND UNOBSTRUCTED HEIGHT OF NOT LESS THAN 13' 6". SIGNS SHALL BE POSTED WHERE PARKING WILL OBSTRUCT THE REQUIRED PASSAGEWAY.
- AN APPROVED WATER SUPPLY CAPABLE OF SUPPLYING THE REQUIRED FIRE FLOW FOR FIRE PROTECTION SHALL BE PROVIDED TO ALL PREMISES UPON WHICH FACILITIES, BUILDINGS OR PORTIONS OF BUILDINGS ARE HEREAFTER CONSTRUCTED OR MOVED INTO THE JURISDICTION. (NFPA 1-18.3.1) THE AVAILABLE WATER SUPPLY CALCULATIONS AND BUILDING DEMAND SHALL BE PROVIDED TO THIS DEPARTMENT AND/OR SHOWN ON THE SITE PLAN FOR APPROVAL.

ESTIMATED PROJECT SCHEDULE

SITE PLAN APPROVAL	NOV. 2020
GRADING PERMIT ISSUANCE	NOV. 2021
START SITE CONSTRUCTION	DEC. 2021
COMPLETE SITE CONSTRUCTION	SPRING, 2022

LEGEND	
	EXISTING STORM DRAIN
	EXISTING BUILDING
	EXISTING RAILROAD TRACKS
	EXISTING CONTOUR INDEX
	EXISTING CONTOUR INTER
	EXISTING FENCE
	PROPOSED BUILDING
	PROPOSED CONTOUR
	EDGE OF GRAVEL
	LOD
	SOILS

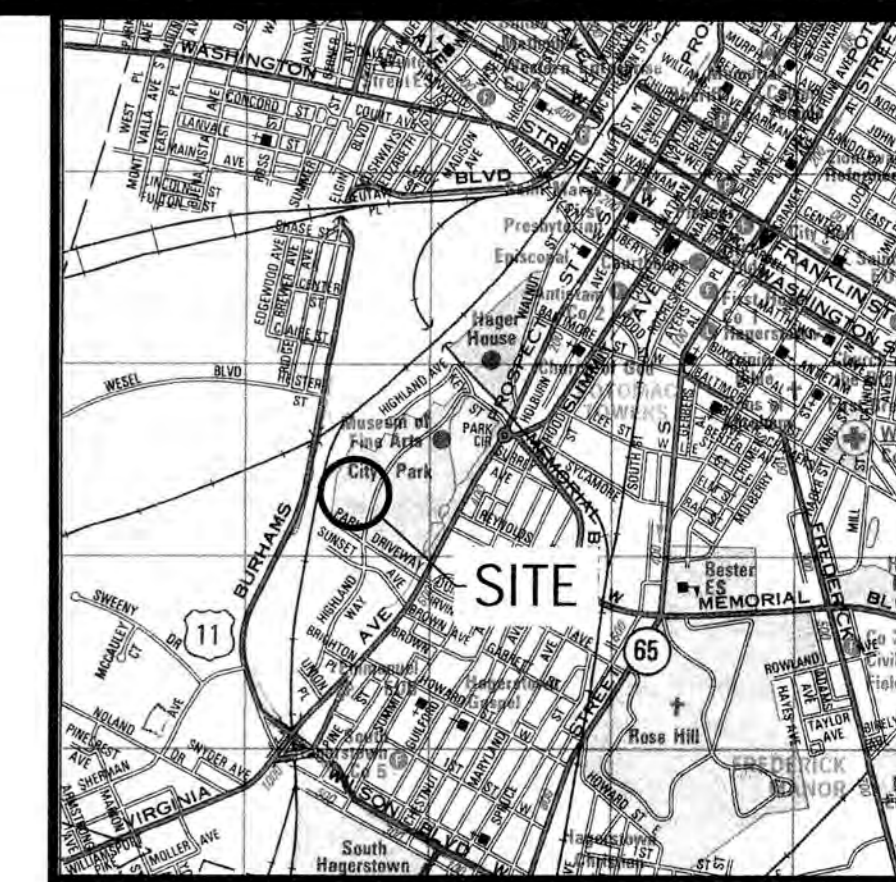
REVISIONS

DATE	REVISION
3/31/22	REVISED PER S.H.A. COMMENTS
9/21/21	REVISED PER S.H.A. COMMENTS

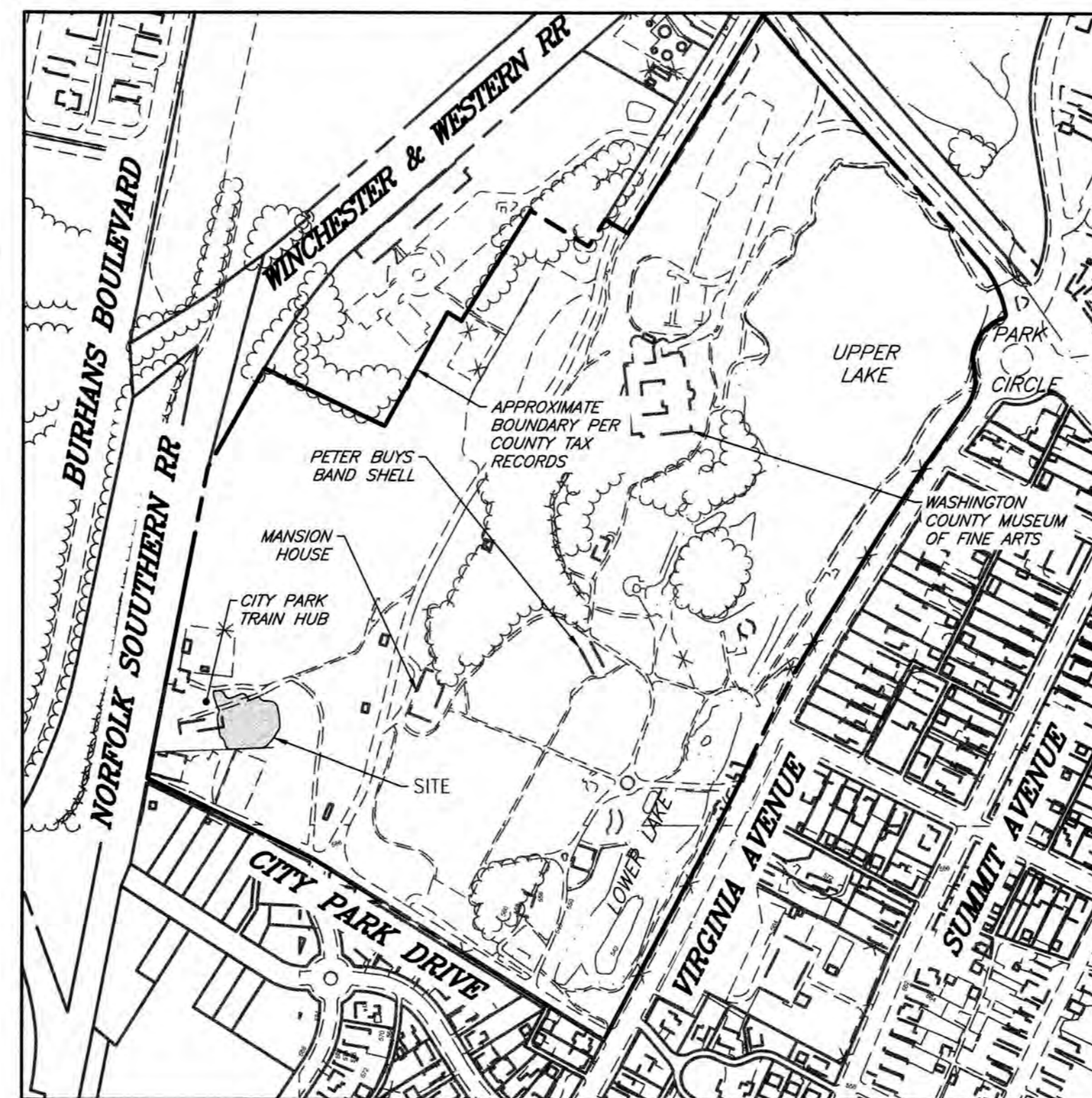
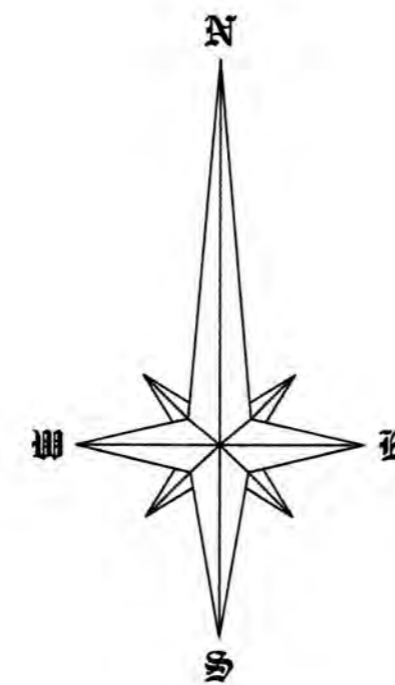
SITE PLAN

CITY PARK TRAIN HUB LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT

SITUATE AT 730 CITY PARK DRIVE
CITY OF HAGERSTOWN
WASHINGTON COUNTY, MARYLAND



VICINITY MAP
SCALE: 1"=2000'
TAX MAP 312 PARCEL 1194
COPYRIGHT ADC THE MAP PEOPLE PERMIT USE NUMBER 21004221



LOCATION MAP
SCALE: 1"=300'

CERTIFICATE OF APPROVAL.

THE SITE PLAN SHOWN HEREON COMPLIES WITH THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE FOR THE CITY OF HAGERSTOWN, MARYLAND, AND OTHER APPLICABLE PROVISIONS OF THE LAND MANAGEMENT CODE, WITH THE EXCEPTION OF SUCH VARIATIONS OR VARIANCES, IF ANY, AS NOTED ON THIS PLAN AND IN THE MINUTES OF THE HAGERSTOWN PLANNING COMMISSION AND/OR BOARD OF ZONING APPEALS. THIS APPROVAL IS VALID FOR THREE YEARS FROM DATE OF SIGNATURE, AND MAY BE RENEWED BY THE PLANNING COMMISSION IN ACCORDANCE WITH THE PROVISIONS OF THE LAND MANAGEMENT CODE. THIS PLAN SHALL BE VOID SHOULD REQUISITE PERMITS NOT BE OBTAINED AND SUBSTANTIAL CONSTRUCTION OCCUR WITHIN THREE YEARS OF THE DATE OF SIGNATURE.

ALL WORK SHALL BE IN ACCORDANCE WITH THIS PLAN. SHOULD THE DEVELOPER FIND NEED TO DEVIATE FROM THIS APPROVED PLAN, THE DEVELOPER SHALL CONTACT PLANNING STAFF FOR A DETERMINATION WHETHER THE WORK IS MINOR AND CAN BE APPROVED BY STAFF, OR IF THE WORK IS SUBSTANTIAL ENOUGH TO REQUIRE REVISED PLANS AND POSSIBLE REAPPROVAL BY THE PLANNING COMMISSION.

FOR THE HAGERSTOWN PLANNING COMMISSION

2/15/23
DATE: _____
STEPHEN R. BOCKMILLER
PLANNING AND CODE ADMINISTRATION DEPARTMENT

DISTURBED AREA QUANTITIES

THE TOTAL AREA TO BE DISTURBED SHOWN ON THESE PLANS HAS BEEN DETERMINED TO BE APPROXIMATELY 0.33 AC. (14,461 S.F.) ACRES AND THE TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO BE APPROXIMATELY 180 C.Y. OF EXCAVATION AND 230 C.Y. OF FILL.

* THESE QUANTITIES ARE APPROXIMATE AND SHALL NOT BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES.
** EARTHWORK QUANTITIES HAVE BEEN COMPUTED FROM PROPOSED SURFACE TO EXISTING SURFACE AND DOES NOT TAKE INTO ACCOUNT TOPSOIL STRIP OR PAVING DEPTHS.

UTILITY NOTIFICATION

THE SOIL CONSERVATION DISTRICT MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NON-EXISTENCE OF ANY UTILITIES AT THE CONSTRUCTION SITE. SHOWN ON THESE CONSTRUCTION DRAWINGS ARE THOSE UTILITIES WHICH HAVE BEEN IDENTIFIED. IT IS THE RESPONSIBILITY OF THE LANDOWNERS OR CONTRACTORS TO ASSURE THEMSELVES THAT NO HAZARD EXISTS OR DAMAGE WILL OCCUR TO UTILITIES. IT IS SUGGESTED THAT MISS UTILITY BE CONTACTED AT: PHONE NO. 1-800-257-7777.

ENGINEER/ARCHITECT DESIGN CERTIFICATION

I HEREBY CERTIFY THIS PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAS BEEN DESIGNED IN ACCORDANCE WITH LOCAL ORDINANCES, COMAR 26.17.01.07 AND MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

5/18/23 27053
DATE REG. NO. SIGNATURE

OWNER/DEVELOPER CERTIFICATION - SCD

I/WE CERTIFY ALL/PARTIES RESPONSIBLE FOR CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF TRAINING AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SOIL EROSION AND SEDIMENT.

2/1/2023 RODNEY TISSUE, CITIZEN. P.T.H.
DATE PRINTED NAME SIGNATURE

WASHINGTON COUNTY SOIL CONSERVATION DISTRICT SOIL EROSION AND SEDIMENT CONTROL PLAN APPROVAL

BY:
DATE: 2/2/2023
(PLAN IS VALID FOR TWO YEARS FROM DATE OF APPROVAL)

THIS SITE PLAN IS APPROVED BY THE CITY ENGINEERING DEPARTMENT FOR A PERIOD OF TWO YEARS FROM DATE SHOWN.

CITY OF HAGERSTOWN DATE: 2/1/2023

STORM WATER MANAGEMENT PLAN SHOWN HEREON IS APPROVED.

CITY OF HAGERSTOWN DATE: 2/1/2023

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PROFESSIONAL CERTIFICATION



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.: 27053 EXP. DATE: 1/25/24

OWNER / DEVELOPER
CITY OF HAGERSTOWN
ATTN: RODNEY TISSUE P.E.
CITY ENGINEER
1 EAST FRANKLIN STREET
HAGERSTOWN, MD 21740
PHONE: 301-739-8577 ext. 124

SHEET 1 OF 7 D-6554

FOX & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

981 MT. AETNA ROAD
HAGERSTOWN, MD 21740
PHONE: (301)733-8503
or (301)416-7250
FAX: (301)733-1853

82 WORMANS MILL COURT
SUITE 'G'
FREDERICK, MD 21701
PHONE: (301)695-0880
FAX: (301)293-6009



www.foxassociatesinc.com Email: foxassoc@foxassociatesinc.com

CITY DWG. #62-219-002
CITY FILE #ZS-2020-09
CITY UNIQUE ID #21-04-03

SITE DATA

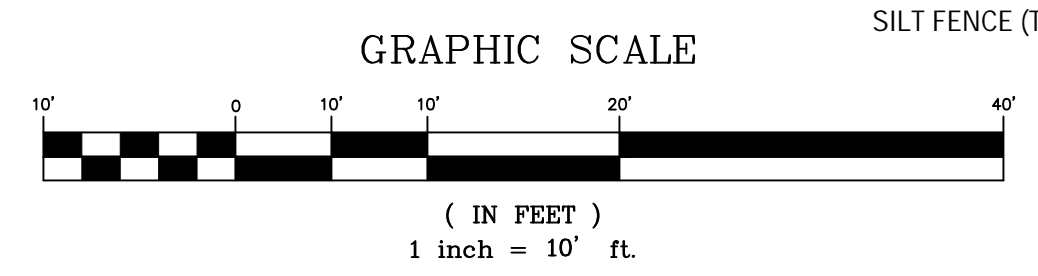
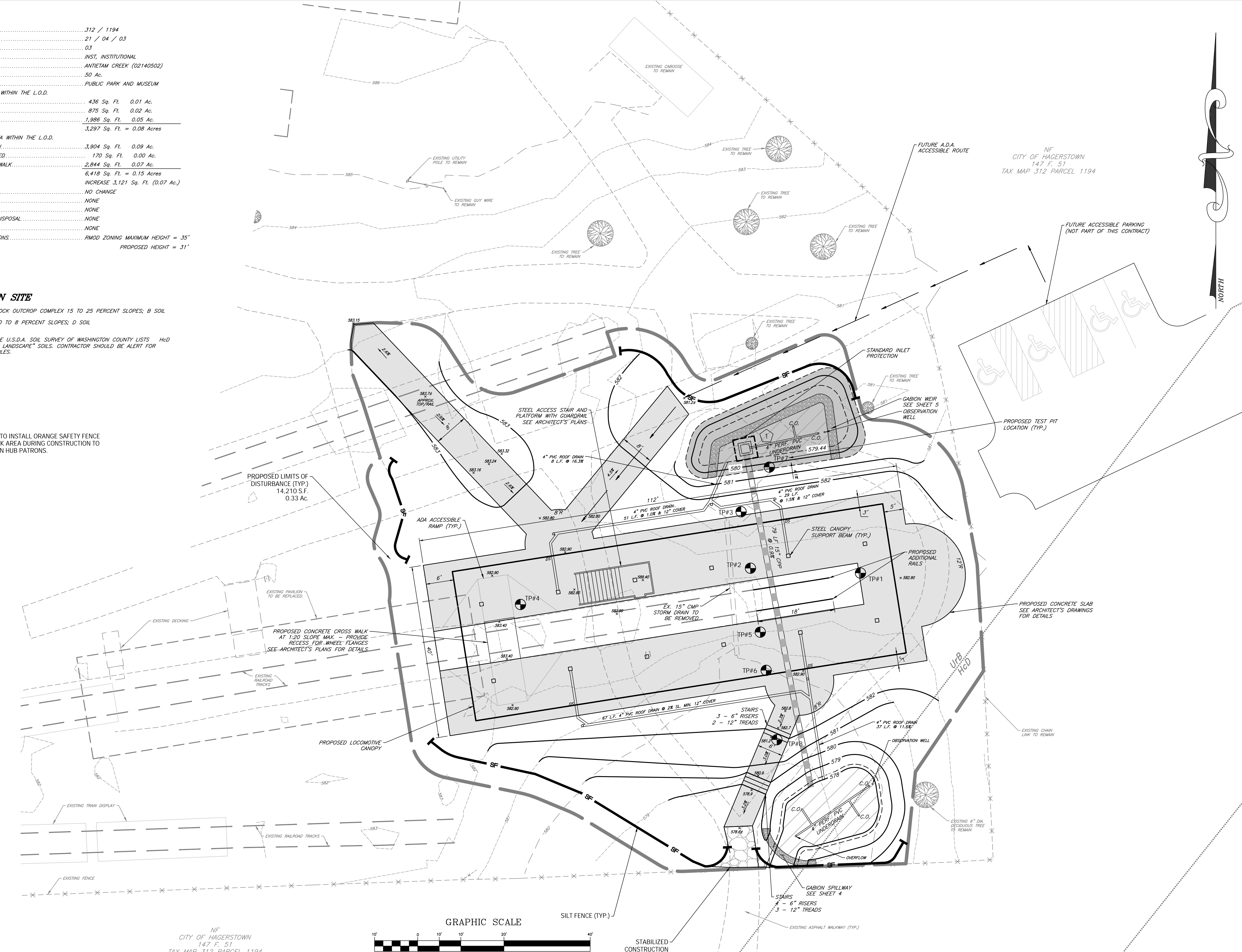
TAX MAP/PARCEL.....	312 / 1194
CITY TAX MAP/GRID/PARCEL.....	21 / 04 / 03
ELECTION DISTRICT.....	03
ZONING.....	INST. INSTITUTIONAL
WATERSHED.....	ANTIETAM CREEK (02140502)
PARCEL ACREAGE.....	.50 Ac.
FUNCTIONAL DESCRIPTION.....	PUBLIC PARK AND MUSEUM
EXISTING IMPERVIOUS AREA WITHIN THE L.O.D.	
EXISTING PAVILION.....	436 Sq. Ft. 0.01 Ac.
GRAVEL RAILBED.....	875 Sq. Ft. 0.02 Ac.
ASPHALT SIDEWALK.....	1,986 Sq. Ft. 0.05 Ac.
	3,297 Sq. Ft. = 0.08 Acres
PROPOSED IMPERVIOUS AREA WITHIN THE L.O.D.	
PROPOSED PAVILION.....	3,904 Sq. Ft. 0.09 Ac.
NEW GRAVEL RAILBED.....	170 Sq. Ft. 0.00 Ac.
NEW ASPHALT SIDEWALK.....	2,844 Sq. Ft. 0.07 Ac.
	6,418 Sq. Ft. = 0.15 Acres
	INCREASE 3,121 Sq. Ft. (0.07 Ac.)
PARKING REQUIRED.....	
	NO CHANGE
WATER.....	
	NONE
SEWER.....	
	NONE
SOLID WASTE STORAGE & DISPOSAL.....	
	NONE
PROJECTED EMISSIONS.....	
	NONE
BUILDING HEIGHT RESTRICTIONS.....	
	RMOZ ZONING MAXIMUM HEIGHT = 35'
	PROPOSED HEIGHT = 31'

SOIL TYPES ON SITE

HcD HAGERSTOWN-ROCK OUTCROP COMPLEX 15 TO 25 PERCENT SLOPES; B SOIL
 U/B URBAN LAND 0 TO 8 PERCENT SLOPES; D SOIL

NOTES: PAGE 103 OF THE U.S.D.A. SOIL SURVEY OF WASHINGTON COUNTY LISTS HcD SOILS AS "KARST LANDSCAPE" SOILS. CONTRACTOR SHOULD BE ALERT FOR POSSIBLE SINKHOLES.

NOTE: CONTRACTOR TO INSTALL ORANGE SAFETY FENCE AROUND WORK AREA DURING CONSTRUCTION TO PROTECT TRAIN HUB PATRONS.



NF
 CITY OF HAGERSTOWN
 147 F. 51
 TAX MAP 312 PARCEL 1194



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 PHONE: (301) 735-7253
 or
 FAX: (301) 735-1853
 Email: foxassoc@foxassocinc.com
 www.foxassocinc.com

DRAWN BY	
REVISION	
DATE	

SITE PLAN / GRADING PLAN / E.S.C. PLAN
CITY PARK TRAIN HUB LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
 SITUATE AT 730 CITY PARK DRIVE
 CITY OF HAGERSTOWN
 WASHINGTON COUNTY, MARYLAND

SCALE: 1"=10'

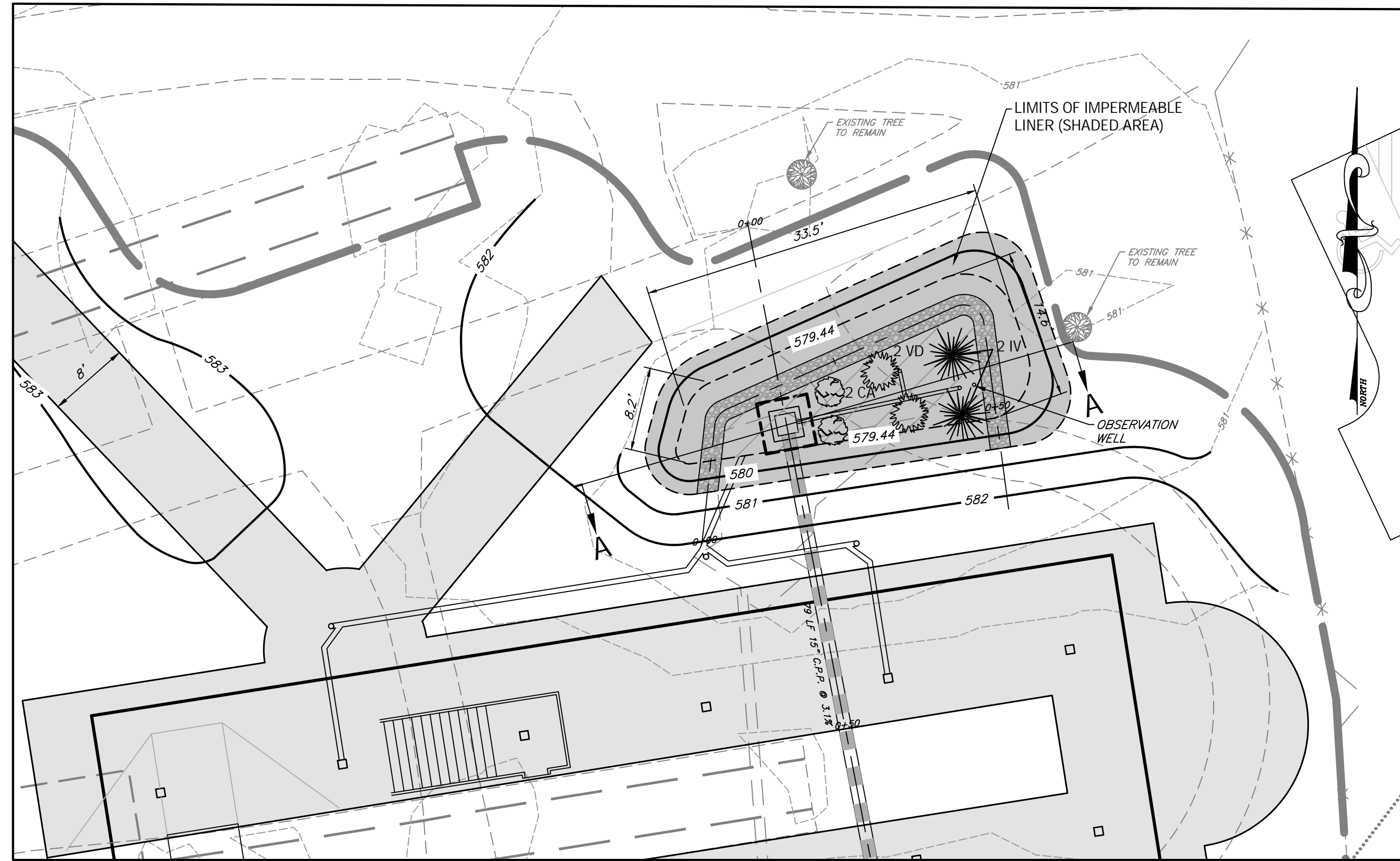


I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A QUALY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE NO. 27053 EXP. DATE: 1/25/24

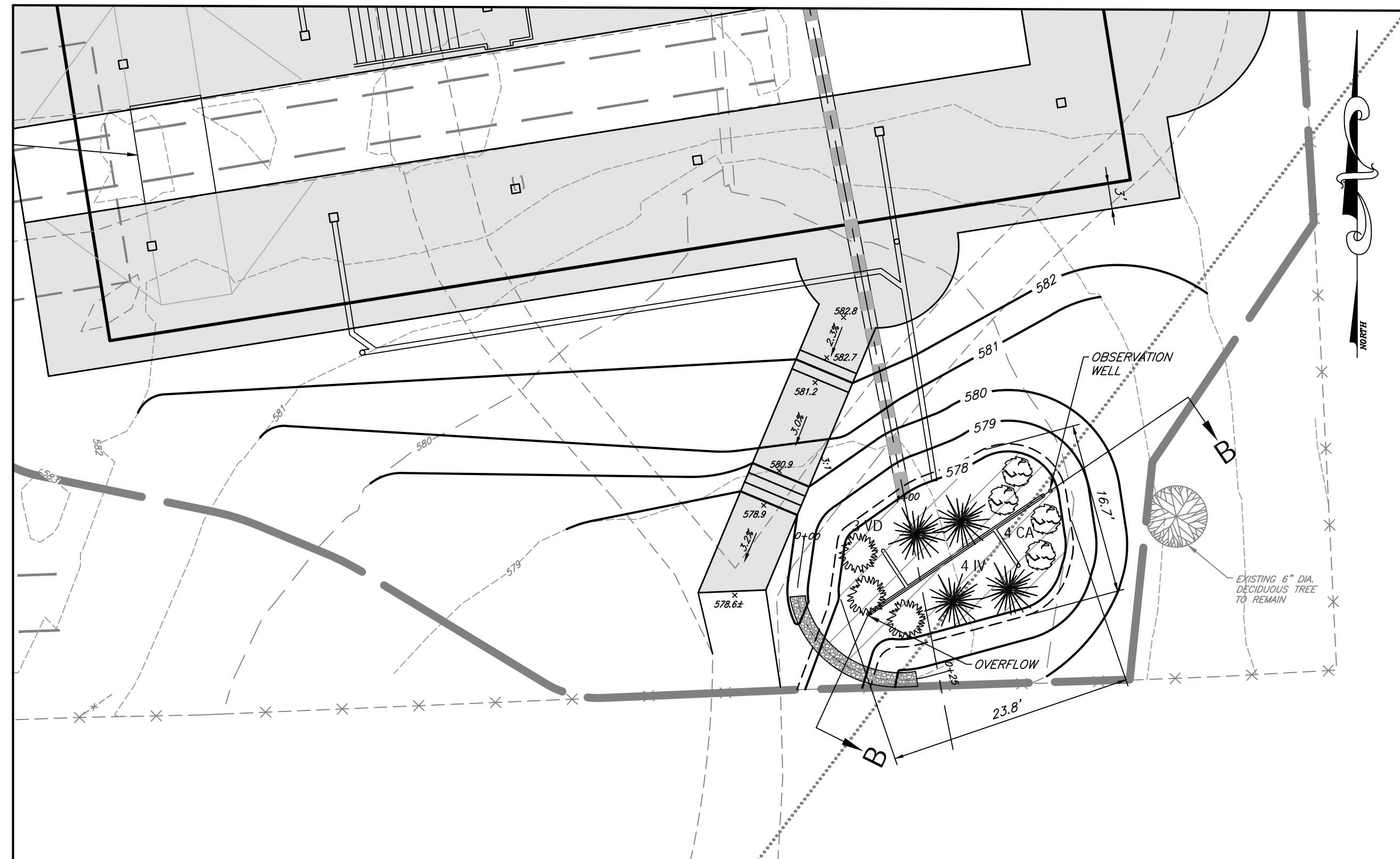
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 DRAWING NO. D-6554
 DATE: JULY, 2020
 DRAWN BY: R.L.B.
 CHECKED BY: G.S.P.

CITY DWG. #62-219-004
 CITY FILE #ZS-2020-09

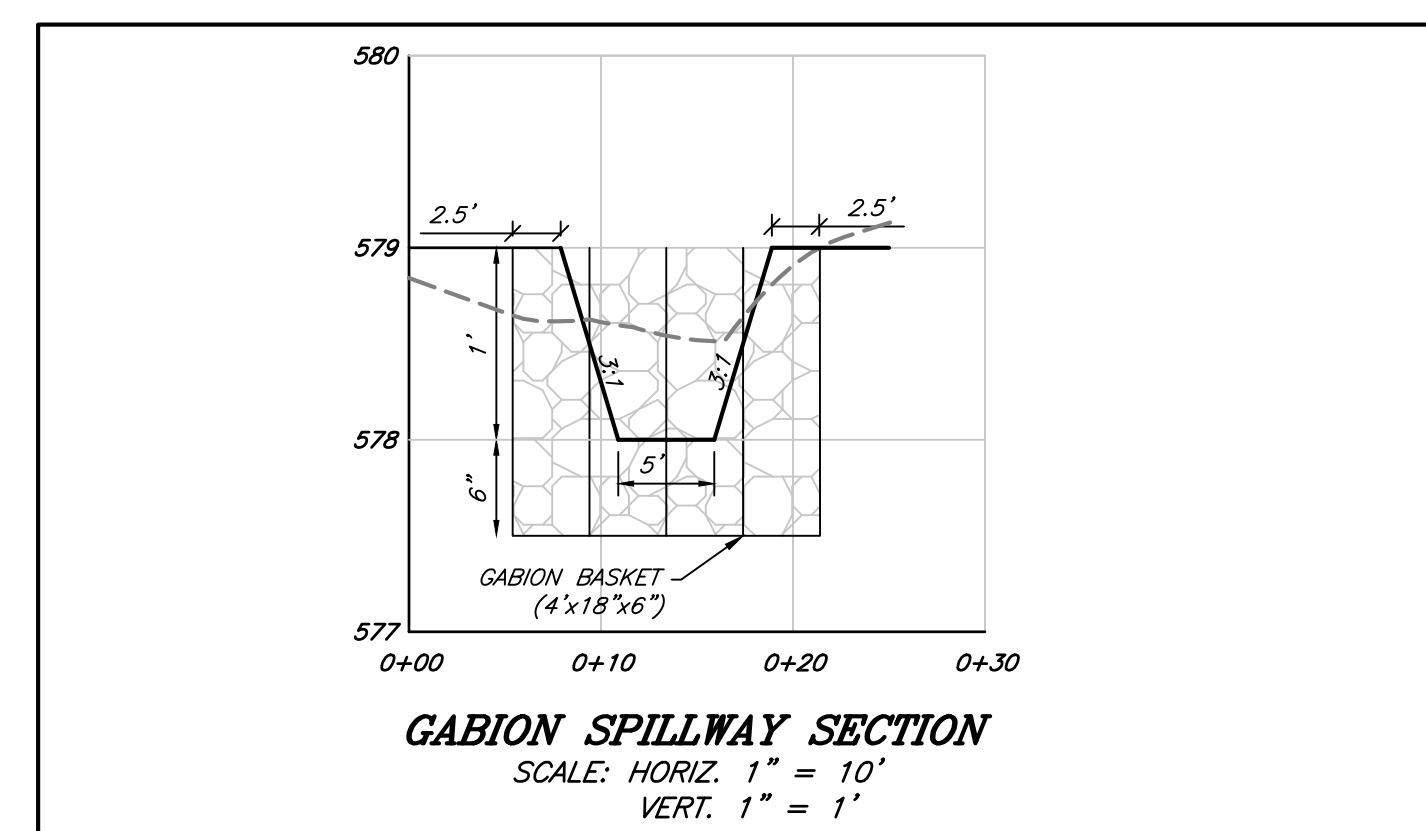
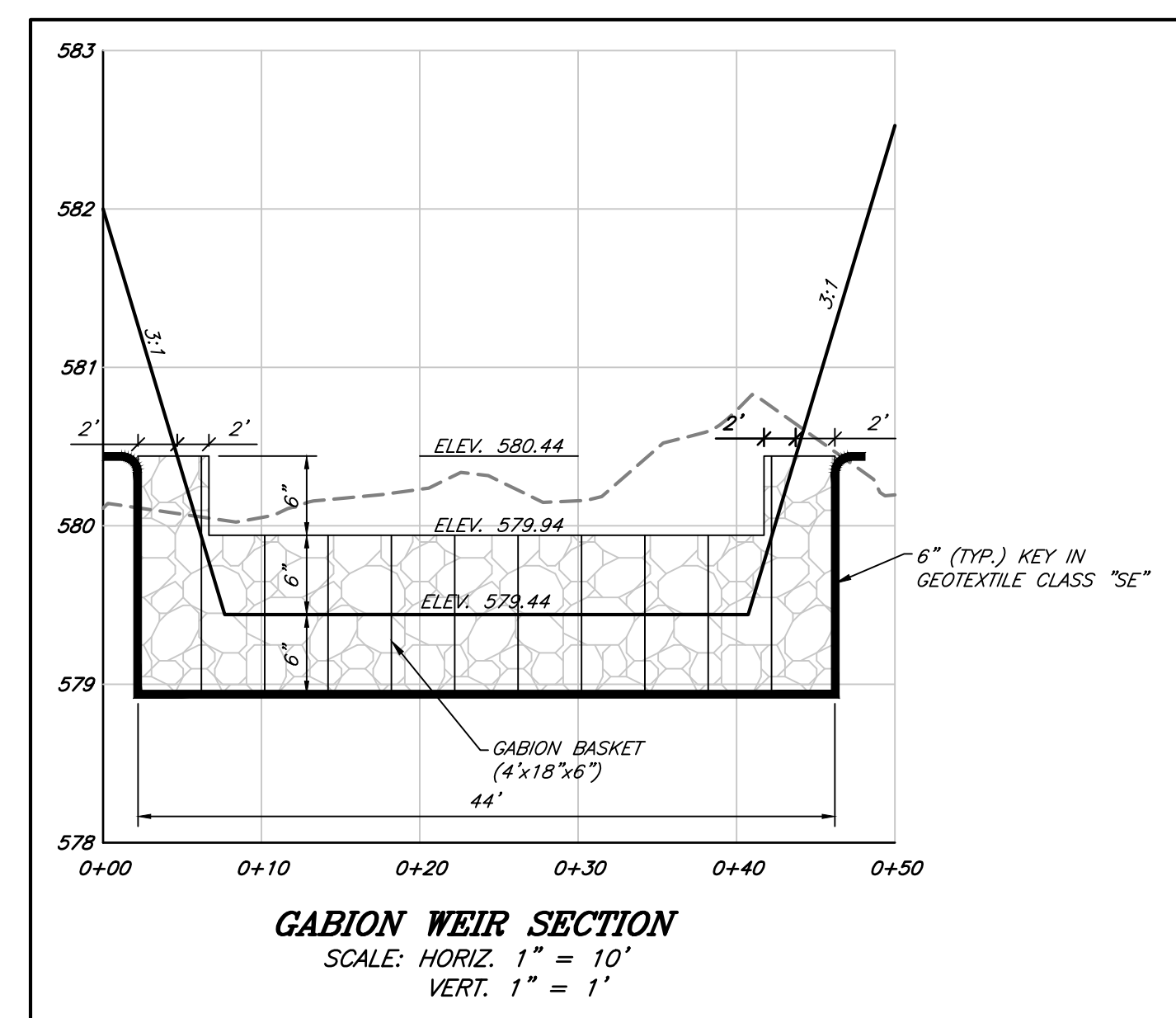
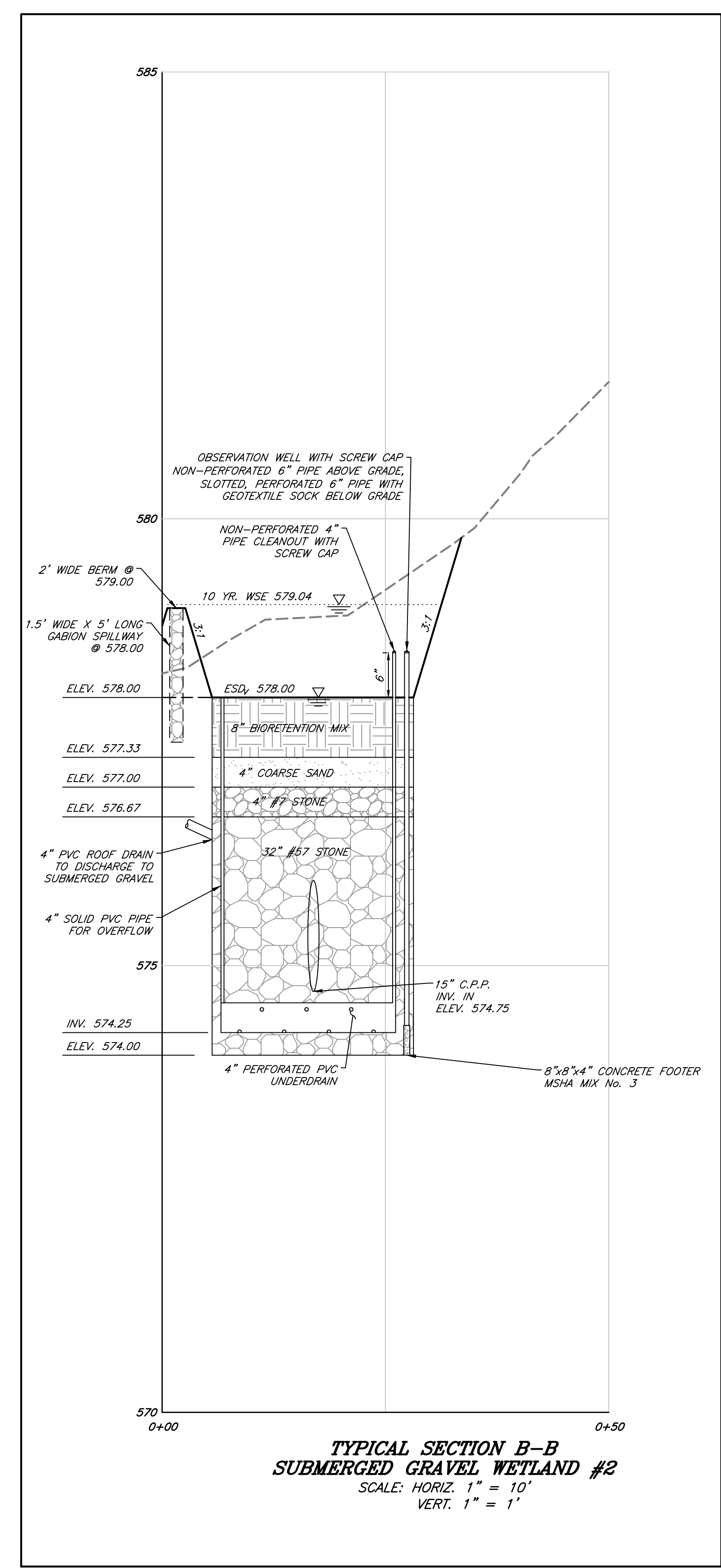
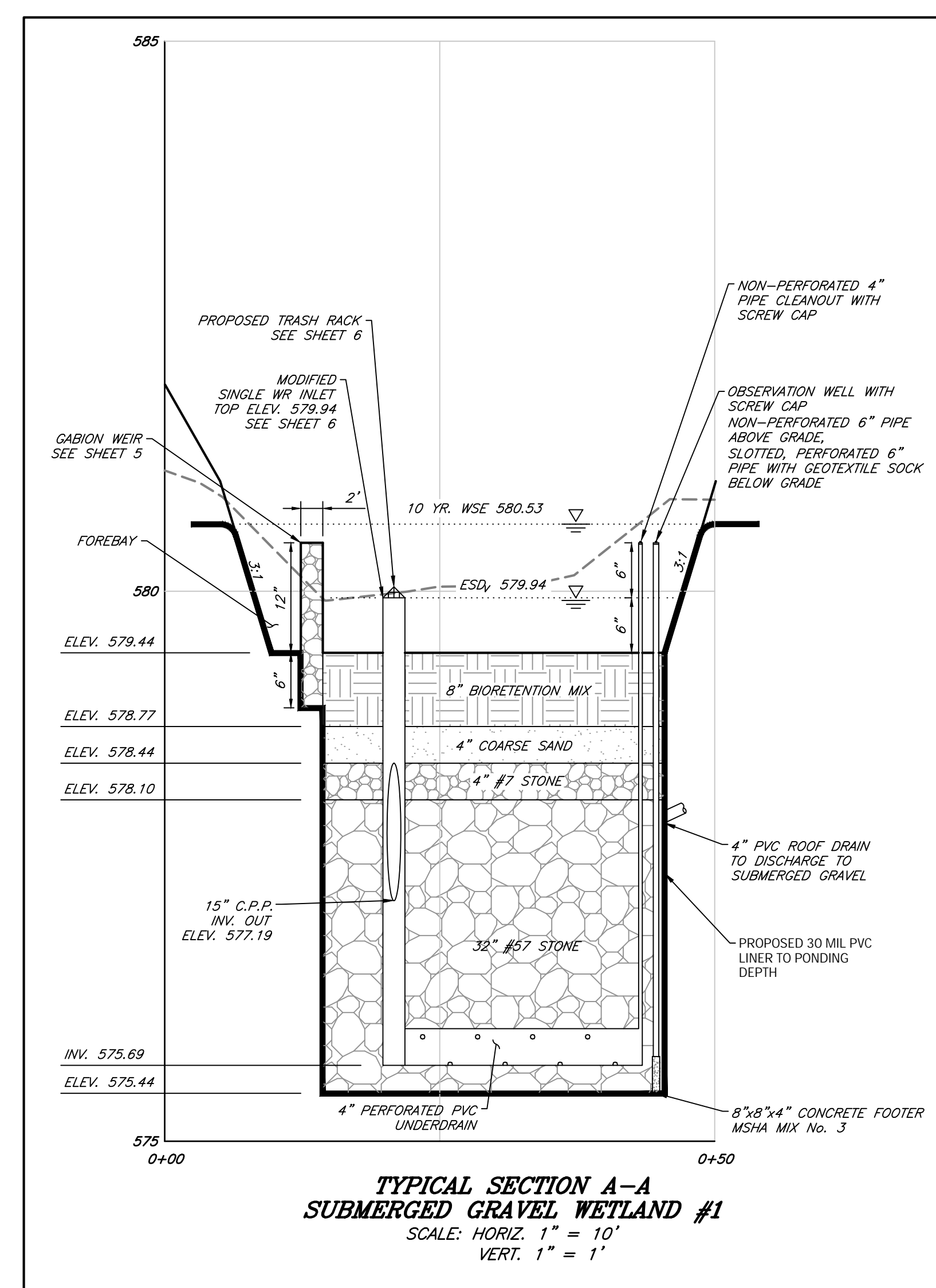
SHEET 3 OF 7



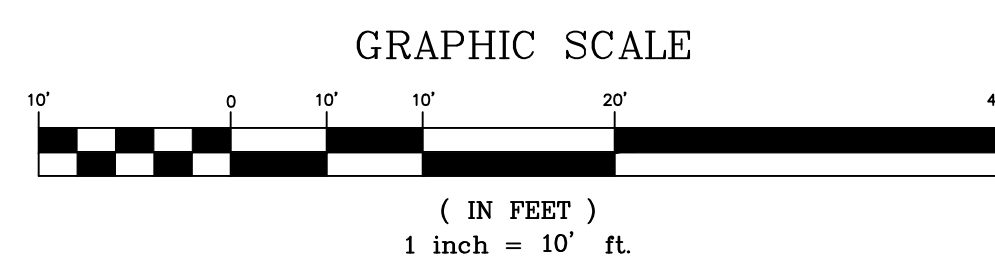
SUBMERGED GRAVEL WETLAND #1
SCALE: 1" = 10'



SUBMERGED GRAVEL WETLAND #2
SCALE: 1" = 10'



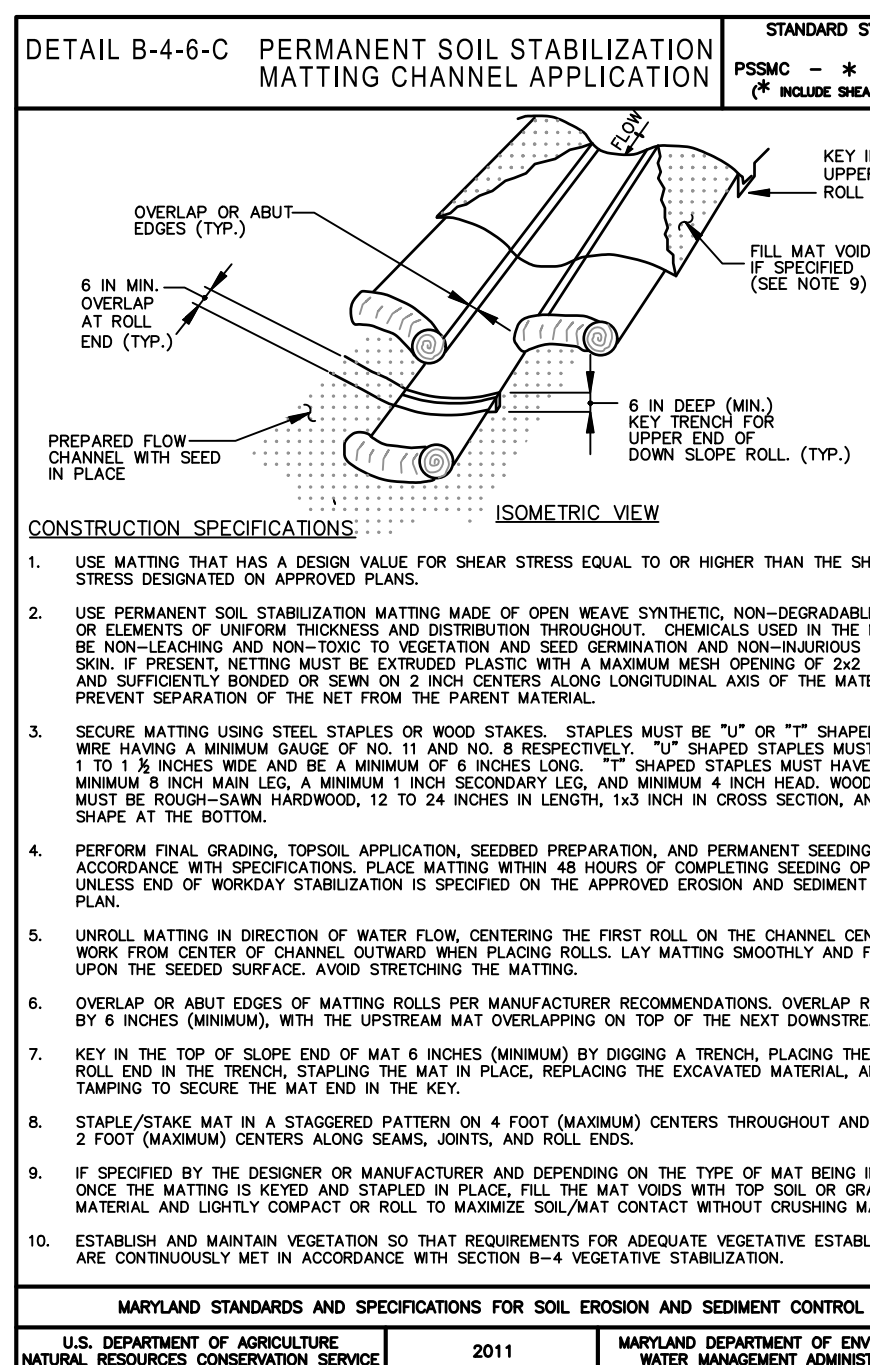
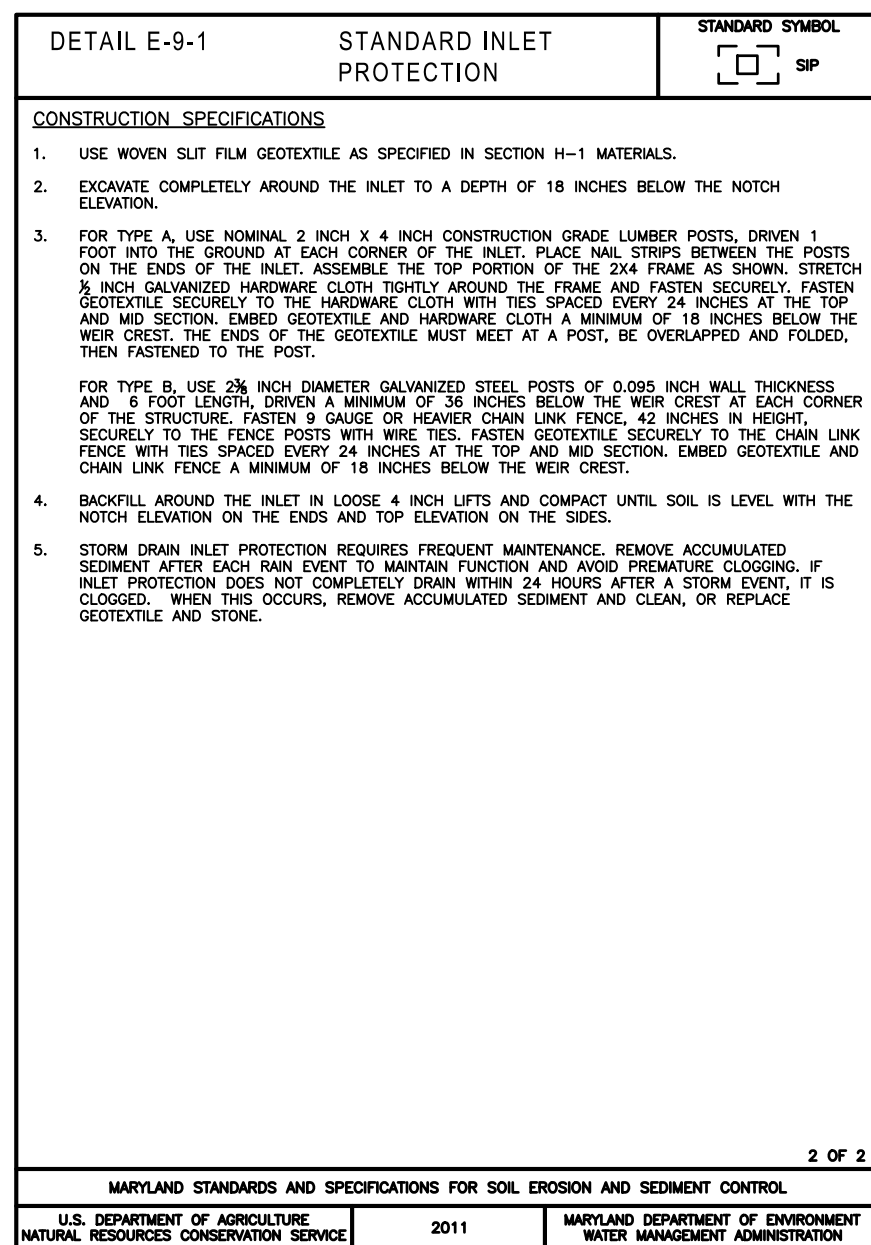
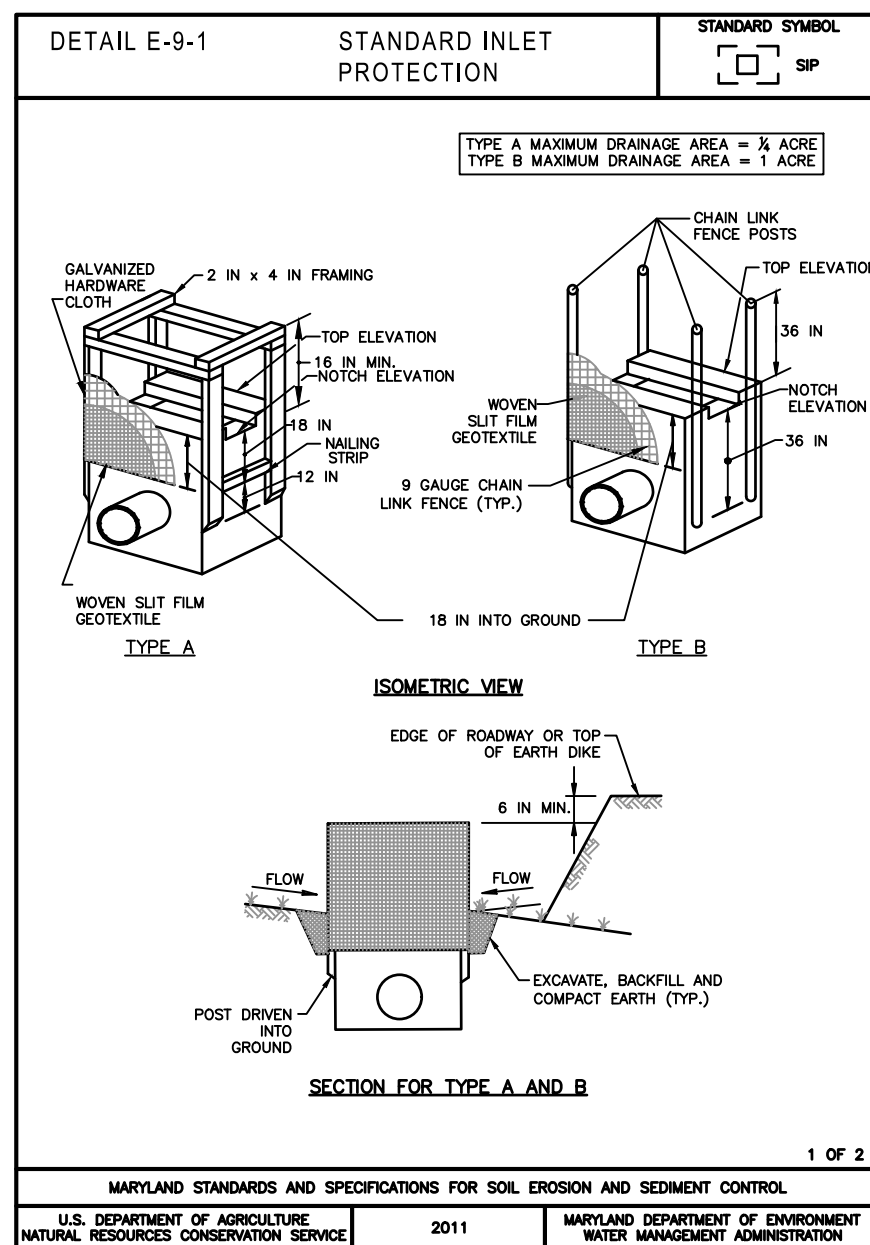
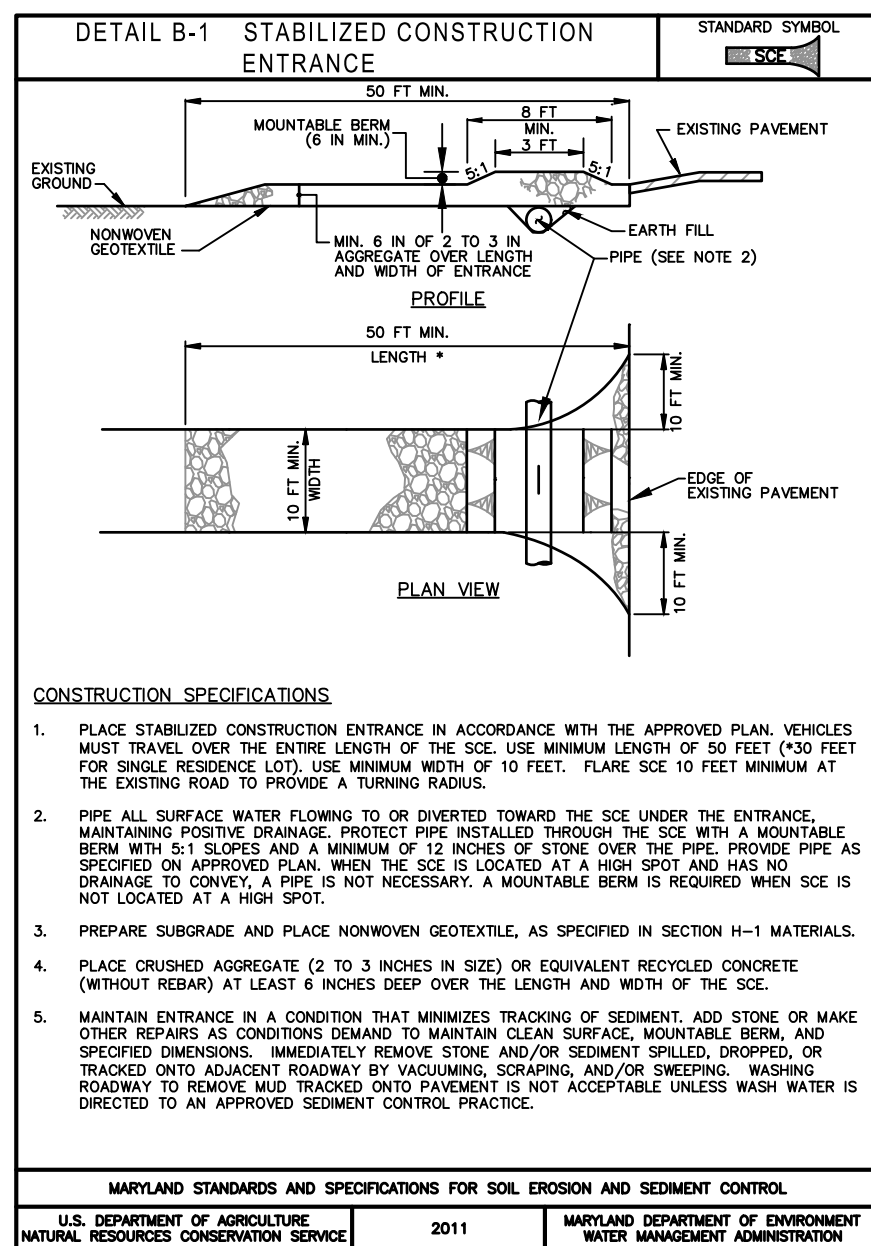
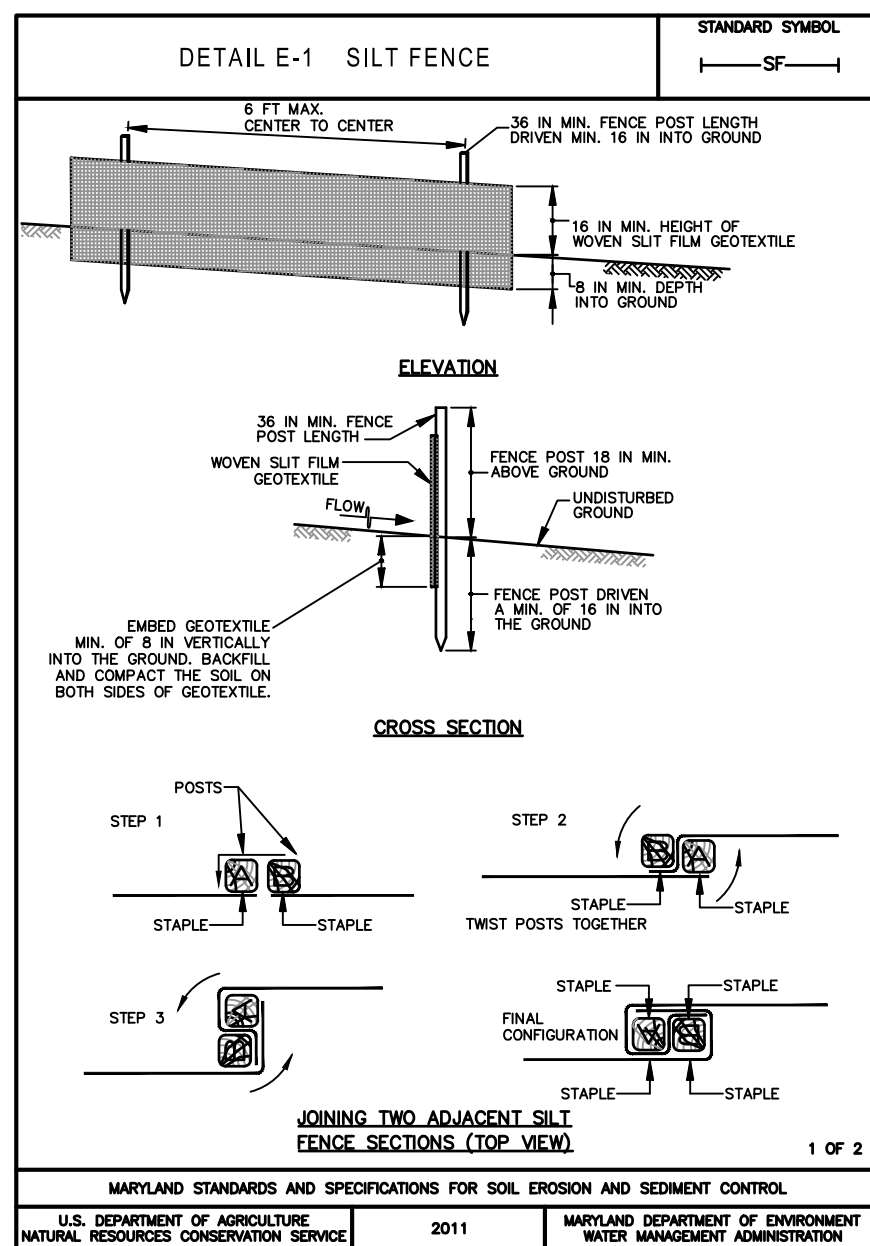
LANDSCAPE SCHEDULE					
SHRUBS SUBMERGED GRAVEL WETLAND #1					
SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	CONDITION
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	2	18" HT.	B & B
IV	ILEX VERTICILLATA	WINTERBERRY HOLLY	2	24" HT.	B & B
VD	VIBURNUM DENTATUM	ARROW WOOD	2	18" HT.	B & B
SHRUBS SUBMERGED GRAVEL WETLAND #2					
SYMBOL	BOTANICAL NAME	COMMON NAME	QUAN.	SIZE	CONDITION
CA	CLETHRA ALNIFOLIA	SWEET PEPPERBUSH	4	18" HT.	B & B
IV	ILEX VERTICILLATA	WINTERBERRY HOLLY	4	24" HT.	B & B
VD	VIBURNUM DENTATUM	ARROW WOOD	3	18" HT.	B & B



ENGINEER'S STORMWATER MANAGEMENT CERTIFICATION

I VERIFY AND AFFIRM THAT THE CONSTRUCTION FOR THE STORMWATER MANAGEMENT FACILITIES AS PERFORMED EITHER MEETS OR EXCEEDS THE REQUIREMENTS AND DESIGN INTENT OF THIS PLAN, INCLUDING ALL SPECIFICATIONS AND REFERENCED STANDARDS, AND HAS BEEN COMPLETED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES. I ALSO VERIFY AND AFFIRM THAT I HAVE REVIEWED THE CONSTRUCTION INSPECTION DOCUMENTATION AND THE AS-BUILT INFORMATION, THAT IT HAS BEEN DONE IN ACCORDANCE WITH CITY OF HAGERSTOWN REQUIREMENTS AND AT THE LEVEL DEEMED NECESSARY TO ASSURE THE VERIFICATION MADE HEREIN; AND ALL DISCREPANCIES BETWEEN THE AS-BUILT INFORMATION AND APPROVED PLANS HAVE BEEN NOTED AND ARE CONSIDERED ACCEPTABLE TO THE CONSULTANT.

SIGNATURE: _____ DATE: _____ SEAL: _____



SOIL EROSION, SEDIMENT CONTROL & SEEDING NOTES

- ALL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
- ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," SECTION B - GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (B.M.P.'s) ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," AND THE APPROVED PLAN.
- A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY AND/OR THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT (APPROVAL AUTHORITY), UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
- FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
 - THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
 - SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITH THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION. (AS APPLICABLE)
- ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN FLOW DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES. AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
- ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
- NO SLOPE SHALL BE GREATER THAN 2:1.
- AS REQUIRED BY SECTION B, OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, "ADEQUATE VEGETATIVE STABILIZATION" IS DEFINED AS 95 PERCENT GROUND COVER. THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE PROJECT ADHERE TO THIS FOR SCHEDULING OF THE FINAL SITE CLOSURE REVIEW, AND/OR THE RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.

FOR SITES 1.0 ACRE OR MORE, THE FOLLOWING ARE REQUIRED:

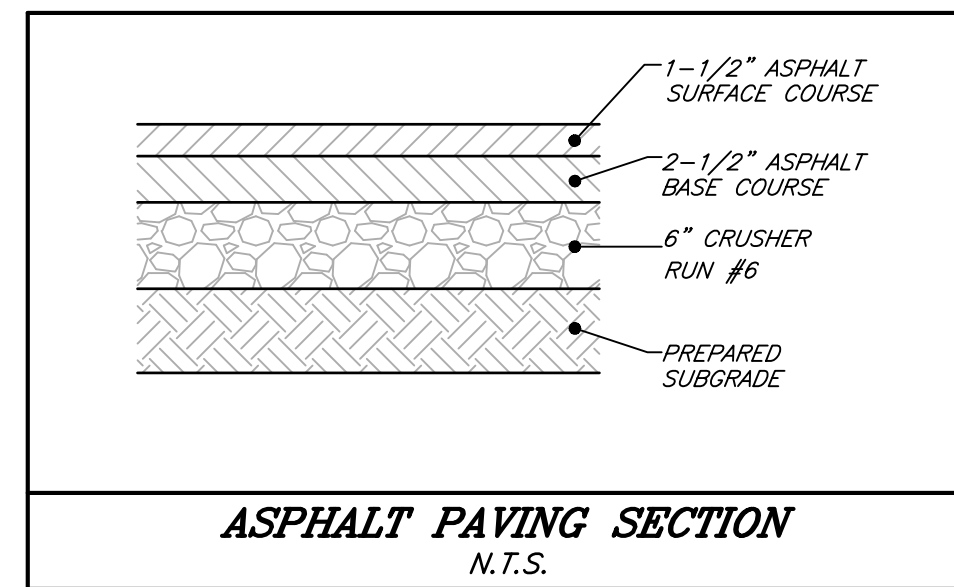
- MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH A CONSTRUCTION ACTIVITY, N.P.D.E.S. PERMIT NUMBER M09C, STATE DISCHARGE PERMIT NUMBER 146P, OR AN INDIVIDUAL PERMIT.
- THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - N.O.I.) APPLICATION AND PERMIT SHALL BE POSTED AND/OR AVAILABLE ON-SITE AT ALL TIMES.
- DURING CONSTRUCTION, ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES (B.M.P.'s) SHALL BE INSPECTED AND RECORDED ON THE "STANDARD INSPECTION FORM," GENERAL PERMIT FOR STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY" PER MARYLAND DEPARTMENT OF THE ENVIRONMENT (GENERAL/INDIVIDUAL PERMIT - NOTICE OF INTENT - N.O.I.).
- FOLLOWING CONSTRUCTION AND RELEASE OF THE SIGHT FOR SOIL EROSION AND SEDIMENT CONTROL BY THE WASHINGTON COUNTY SOIL CONSERVATION DISTRICT, I.E., ALL PORTIONS OF A SITE HAVE BEEN PERMANENTLY STABILIZED, AND ALL STORMWATER DISCHARGES FROM THE CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT AREA ELIMINATED, THE AUTHORIZED PERMITEE SHALL SUBMIT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, GENERAL/INDIVIDUAL PERMIT - NOTICE OF TERMINATION - N.O.T.

PERMANENT SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE B.3					FERTILIZER RATE (10-20-20)			LIME RATE
No.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS	N	P205	K2O	LIME RATE
6	TALL FESCUE WHITE CLOVER PERENNIAL RYE GRASS	40 5 25	3/1 - 5/15 8/1 - 10/15	1/2" - 3/4"	45 LB/AC (10 LB/1000 S.F.)	90 LB/AC (2 LB/1000 S.F.)	90 LB/AC (2 LB/1000 S.F.)	2 TONS/AC (90 LB/1000 S.F.)

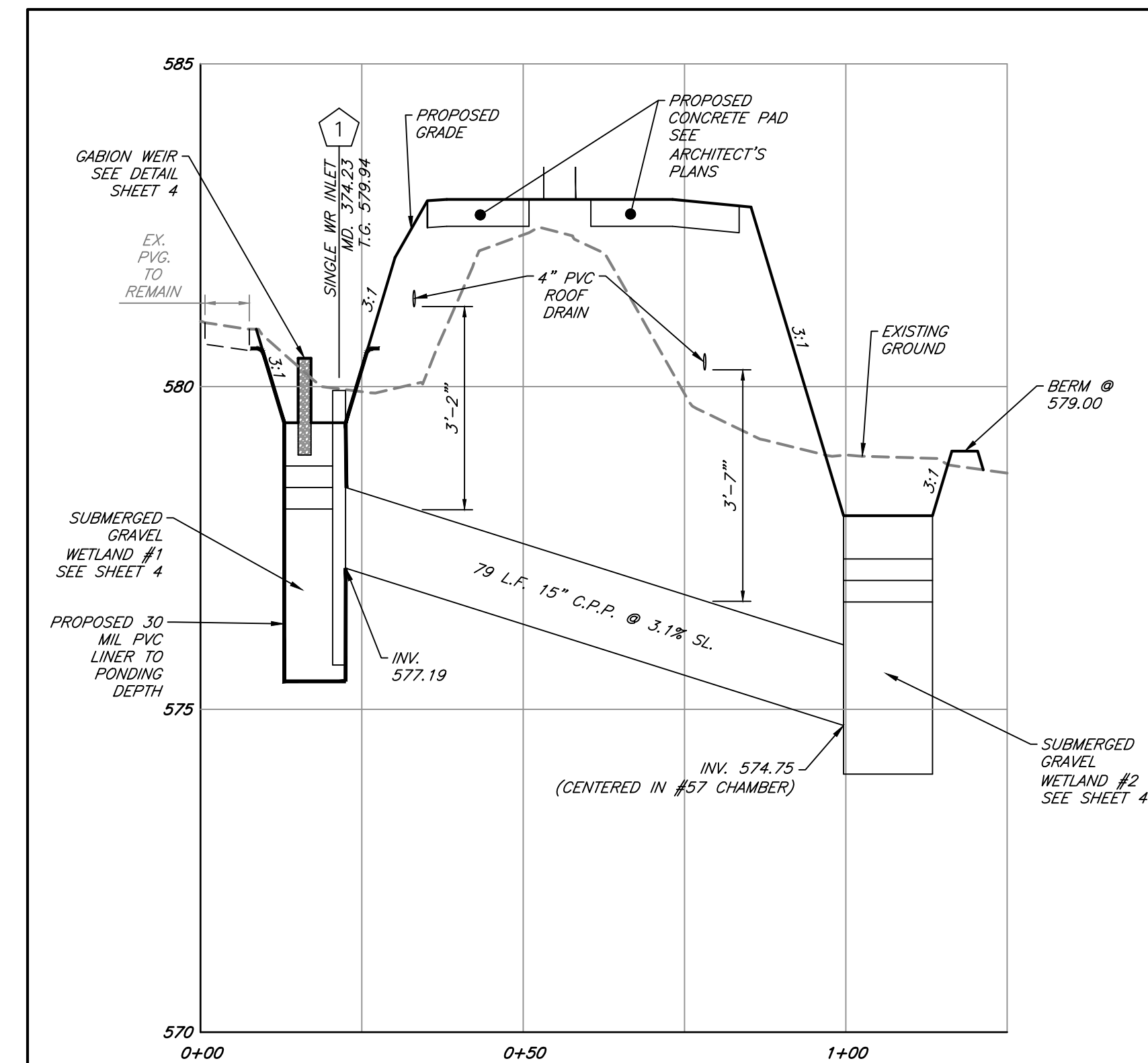
TEMPORARY SEEDING SUMMARY

SEED MIXTURE (HARDINESS ZONE 6B) FROM TABLE B.1					FERTILIZER RATE (10-20-20)	LIME RATE
No.	SPECIES	APPLICATION RATE (LB/AC)	SEEDING DATES	SEEDING DEPTHS		
2	BARLEY (HORDEUM VULGARE)	96	3/1 - 5/15 8/1 - 10/15	1.0"	436 LBS./AC. (10 LBS/1000 S.F.)	2 TONS/AC. (90 LBS/1000 S.F.)



SEQUENCE OF CONSTRUCTION

- DUE TO DISTURBED AREA UNDER 15,000 S.F., A PRE-CONSTRUCTION MEETING WILL NOT BE REQUIRED.
- A STABILIZED CONSTRUCTION ENTRANCE IS REQUIRED TO PREVENT MUD TRACKING ON PARK PATHS.
- CLEAR & GRUB AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS. INSTALL PERIMETER SILT FENCE.
- CLEAR & GRUB THE REMAINDER OF SITE. PLACE TOPSOIL IN TOPSOIL STOCKPILE AREAS AS SHOWN ON GRADING PLAN.
- SAWCUT AND REMOVE EXISTING ASPHALT WALKWAY AS SHOWN ON PLAN.
- REMOVE EXISTING PAVILION TO LIMITS SHOWN ON PLANS.
- BEGINNING DOWNSTREAM AND PROCEEDING UPSTREAM, INSTALL PROPOSED STORM DRAIN PIPE AND INLET. INSTALL INLET PROTECTION.
- BEGIN GRADING OPERATIONS. ANY SPOIL AND/OR BORROW MUST COME FROM OR GO TO A SITE THAT HAS A CURRENT AND APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- BEGIN FOOTER AND BUILDING ERECTION.
- INSTALL ADDITIONAL GRAVEL BED AND RAILS AS SHOWN ON PLAN.
- BEGIN INSTALLATION OF ASPHALT WALKWAY AND RAMPS.
- STABILIZE ALL GRASS AREAS.
- ONCE ENTIRE SITE HAS BEEN STABILIZED, OBTAIN PERMISSION FROM SCD AND CITY ENGINEER TO BEGIN SUBMERGED GRAVEL WETLAND CONSTRUCTION.
- CONSTRUCT SUBMERGED GRAVEL WETLAND, INSTALL PLANTS.
- ONCE THE SUBMERGED GRAVEL WETLAND HAS BEEN STABILIZED, CONTACT SCD TO REMOVE PERMETER CONTROLS. STABILIZE AREAS LEFT DISTURBED BY PERMETER CONTROL REMOVAL.
- CONTACT THE WASH. CO. SCD AT 301-797-6821 EXT. 3 AND THE CITY OF HAGERSTOWN ENGINEERING DEPARTMENT AT 301-739-8577 TO SCHEDULE A FINAL SITE CLOSURE REVIEW MEETING.



PROFILE OF STORM DRAIN PIPE

SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

PIPE SCHEDULE		
PIPE SIZE & MATERIAL	REQUIRED LENGTH	CLASS/SPEC.
15" C.P.P.	79 L.F.	SMOOTH INTERIOR
4" PVC	192 L.F.	SCHEDULE 40

DRAINAGE STRUCTURE SCHEDULE				
STRUCTURE No.	STRUCTURE TYPE	RIM or T.G. ELEV.	BOT. ELEV.	REMARKS
1	MD. S.H.A. SINGLE WR INLET	579.94	575.69	MD. STD. 374.33



FOX & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

82 WORMANS MILL COURT
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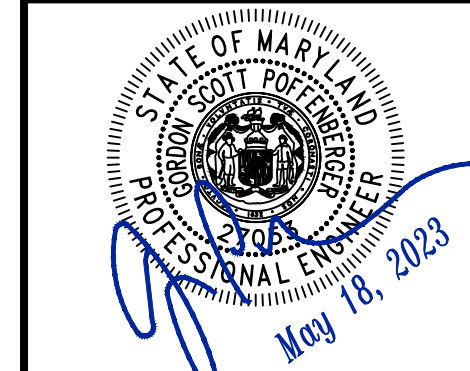
DRAWN BY: _____
REVISION: _____
DATE: _____

E.S.C. NOTES & DETAILS

CITY PARK TRAIN HUB LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT

SITUATE AT 730 CITY PARK DRIVE
CITY OF HAGERSTOWN
WASHINGTON COUNTY, MARYLAND

SCALE:



I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.: 27053 EXP. DATE: 1/25/24

PROJECT NO. 19-31556
DRAWING NO. D-6554
DATE: JULY, 2020
DRAWN BY: R.L.B.
CHECKED BY: G.S.P.

NOTICE OF REQUIRED STORMWATER MANAGEMENT INSPECTIONS
SAND FILTERS, BIORETENTION, RAIN GARDEN, AND SUBMERGED GRAVEL WETLAND FACILITIES

THE FOLLOWING INSPECTIONS ARE REQUIRED TO BE PERFORMED BY THE QUALIFYING PROFESSIONAL FOR THE CONSTRUCTION OF ANY SAND FILTER, BIO-RETENTION OR RAIN GARDEN FACILITY. ADDITIONAL INSPECTIONS MAY BE NEEDED BASED ON PROFESSIONAL ENGINEERING JUDGMENT. EACH INSPECTION IS REQUIRED AT THE START OF EACH STAGE.

	CERTIFYING ENGINEER	DATE	DATE
EXCAVATION OF FACILITY - PRIOR TO EXCAVATION, VERIFY SEDIMENT AND EROSION CONTROL FEATURES ARE IN PLACE TO PREVENT SEDIMENT INFLOW. VERIFY ALL FLAGGING REQUIRED IN THE AREA FOR SENSITIVE AREA PROTECTION. VERIFY GRADING IS ACCURATELY STAKED-OUT AND RE-STAKED AS NEEDED. FACILITY DIMENSIONS SHALL BE VERIFIED AND SOLES CHECKED FOR INFILTRATION. VERIFY CONTRIBUTING AREA IS PERMANENTLY STABILIZED. VERIFY THAT WATER IS NOT PRESENT. ENSURE ROUGHENING OF SIDE WALLS IF SHEARED AND SEALED BY HEAVY EQUIPMENT. VERIFY THAT COMPACTION OF FACILITY BASE IS MINIMIZED.			
PLACEMENT OF FILTER CLOTH (TRENCHES) - ENSURE FILTER FABRIC IS OVERLAPPING SIX (6) INCHES BETWEEN STRIPS OF CLOTH. ENSURE TREE ROOTS OR OTHER OBSTACLES ARE REMOVED FROM FACILITY WALLS OR SIDES AND BASE TO PREVENT TEARING. VERIFY THAT UPHILL FABRIC ROLL OVERLAPS TWO (2) FEET OVER DOWNHILL ROLL.			
PLACEMENT OF UNDERDRAINS AND OBSERVATION WELLS - LOCATION, SIZE AND MATERIAL OF UNDER DRAIN AND OBSERVATION WELLS SHALL BE VERIFIED PRIOR TO STONE PLACEMENT. VERIFY PIPE ENDS CAPPED. VERIFY 3" GRAVEL COVER.			
PLACEMENT OF FILTERING MEDIA - VERIFY BOTTOM LAYER MATERIAL AND THICKNESS. VERIFY SAND AND/OR FILTER MEDIA LAYER MATERIAL AND THICKNESS. VERIFY FILTER FABRIC OR PEA GRAVEL USED BETWEEN SAND LAYERS. VERIFY TOP MEDIA LAYER.			
PLACEMENT OF SAND FILTER LAYER OR GRAVEL DIAPHRAGM - VERIFY DEPTH AND WIDTH OF SAND AND/OR DIAPHRAGM LAYER. VERIFY FILL MATERIAL.			
STABILIZATION AND LANDSCAPING - VERIFY SITE TOP SOILED, SEEDED AND MULCHED. VERIFY EMBANKMENT TOP SOILED AND SEEDED. VERIFY LOCATION, SIZE, TYPE AND NUMBER OF PLANTED LANDSCAPE MATERIAL. VERIFY NO MORE THAN 1/8 INCH ROOT BALL EXPOSED. VERIFY PLANTING STOCK KEPT MOIST DURING ON-SITE STORAGE. VERIFY INSTALLATION LOCATION, SIZE, MATERIAL TYPE OF FENCING OR OTHER SAFETY BARRIERS.			

THE QUALIFYING PROFESSIONAL MAY REQUEST THE PRESENCE OF A COUNTY CONSTRUCTION STANDARDS INSPECTOR AT LEAST 24 HOURS IN ADVANCE BY CALLING 240-313-2400.

GEOTECHNICAL INVESTIGATION RECOMMENDATIONS

1. OLD FILL MATERIALS WERE ENCOUNTERED IN THREE (3) OF THE TEST LOCATIONS TO DEPTHS RANGING FROM 2 TO 4.5 FEET BELOW EXISTING GRADE. THE TYPE AND CONSISTENCY OF THE FILL ENCOUNTERED WAS SIMILAR AT EACH TEST LOCATION. BASED ON THE RESULTS OF THE FIELD EXPLORATION, IT IS OUR OPINION THAT THE EXISTING OLD FILL OBSERVED IS SUITABLE FOR SUPPORT OF THE PROPOSED PAVILION. WE DO NOT HAVE RECORDS OF THE FILL PLACEMENT. THEREFORE, THE TYPE AND CONSISTENCY OF THE OLD FILL MAY VARY FROM THE CONDITIONS OBSERVED AT OUR TEST LOCATIONS. THEREFORE, WE RECOMMEND THAT A CONTINGENCY BE INCLUDED IN THE PROJECT BIDS FOR OVER-EXCAVATION AND REMOVAL OF UNSUITABLE MATERIALS OR FOR LOWERING FOUNDATIONS TO BEAR ON NATURAL SOILS.
2. ONLY VERY LIGHT GRADING EQUIPMENT SUCH AS A SMALL TRACKED DOZER SHOULD BE UTILIZED FOR PLACEMENT OF TOPSOIL AND GRAVEL WITHIN THE PROPOSED INFILTRATION FACILITY. IN ADDITION, CONSTRUCTION TRAFFIC SHOULD BE PROHIBITED UPON COMPLETION OF THE SWM FACILITY AREA SO THAT ANY PLANTING SOILS OR PERMEABLE MEDIA WILL NOT BE COMPACTED.

OPERATION AND MAINTENANCE SCHEDULE FOR PRIVATELY OWNED AND MAINTAINED SUBMERGED GRAVEL WETLANDS (M-2)

- a. DURING THE FIRST YEAR OF OPERATION, THE OWNER SHALL INSPECT THE FACILITY AFTER EVERY HEAVY STORM AND REPLACE VEGETATION AS NEEDED.
- b. THE OWNER SHALL REMOVE SEDIMENT ACCUMULATED IN THE PRETREATMENT AREAS AS NECESSARY.
- c. SIGNS OF UNEVEN FLOW WITHIN THE WETLAND MAY MEAN THAT THE GRAVEL OR UNDERDRAIN IS CLOGGED. THE GRAVEL OR UNDERDRAIN SHALL BE REMOVED, CLEANED, AND REPLACED, AS NEEDED.
- d. THE OWNER SHALL ENSURE A DENSE STAND OF WETLAND VEGETATION IS MAINTAINED THROUGH THE LIFE OF THE FACILITY AND REPLACE VEGETATION AS NEEDED.
- e. THE OWNER SHALL ENSURE THE INLETS AND OUTLETS TO EACH GRAVEL WETLAND CELL ARE FREE FROM DEBRIS.
- f. THE OWNER SHALL REPAIR EROSION AT INFLOW POINTS AND ENSURE FLOW SPLITTERS ARE FUNCTIONAL TO PREVENT STORM WATER FROM BYPASSING THE FACILITY.

Table B.4.1 Materials Specifications for Micro-Bioretenion, Rain Gardens, Landscape Infiltration, & Submerged Gravel Wetlands

Material	Specification	Size	Notes
Plantings	see Appendix A, Table A.4	n/a	plantings are site-specific planting soil
Planting soil (2 to 4' deep)	loamy sand (60-65%) & compost (35-40%) or sandy loam (30%), coarse sand (30%) & compost (40%)	n/a	USDA soil types loamy sand or sandy loam; clay content < 5%
Organic content	Min. 10% by dry weight (ASTM D 2974)		
Mulch	shredded hardwood		aged 6 months, minimum; no pine or wood chips
Pea gravel diaphragm	pea gravel ASTM D-448	NO. 8 OR NO. 9 (1/8" TO 3/8")	
Curtain drain	ornamental stone; washed cobbles	stone: 2" to 5"	
Geotextile		n/a	PE Type 1 nonwoven
Gravel (underdrains and infiltration berms)	AASHTO M-43	NO. 57 OR NO. 6 AGGREGATE (3/8" to 3/4")	
Underdrain piping	F 758, Type PS 28 or AASHTO M-278	4" to 6" rigid schedule 40 PVC or SDR35	Slotted or perforated pipe: 3/8" perf. @ 6" on center, 4 holes per row; minimum of 3" of gravel over pipes; not necessary underdrain pipes. Perforated pipe shall be wrapped with 1/4-inch galvanized hardware cloth
Poured in place concrete (if required)	MSHA Mix No. 3; Fe = 3500 psi @ 28 days, normal weight, all-entrained; reinforcing to meet ASTM 615-60	n/a	on-site testing of poured in-place concrete required: 28 day strength and slump test; all concrete design (cast in place or pre-cast) not using previously approved State or local standards requires design drawings sealed and approved by a professional structural engineer licensed in the State of Maryland - design to include meeting ACI Code 350 R/89; vertical loading (H-10 or H-20); allowable horizontal loading (based on soil pressures); and analysis of potential cracking
Sand	AASHTO-M-6 or ASTM-C-33	0.02" to 0.04"	Sand substitutions such as Diabase and Graystone (AASHTO) #10 are not acceptable. No calcium carbonated or diatomitic sand substitutions are acceptable. No "rock dust" can be used for sand.

ENGINEER'S STORMWATER MANAGEMENT CERTIFICATION

I VERIFY AND AFFIRM THAT THE CONSTRUCTION FOR THE STORMWATER MANAGEMENT FACILITIES AS PERFORMED EITHER MEETS OR EXCEEDS THE REQUIREMENTS AND DESIGN INTENT OF THIS PLAN, INCLUDING ALL SPECIFICATIONS AND REFERENCED STANDARDS, AND HAS BEEN COMPLETED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICES. I ALSO VERIFY AND AFFIRM THAT I HAVE REVIEWED THE CONSTRUCTION INSPECTION DOCUMENTATION AND THE AS-BUILT INFORMATION, THAT IT HAS BEEN DONE IN ACCORDANCE WITH CITY OF HAGERSTOWN REQUIREMENTS AND AT THE LEVEL DEEMED NECESSARY TO ASSURE THE VERIFICATION MADE HEREIN; AND ALL DISCREPANCIES BETWEEN THE AS-BUILT INFORMATION AND APPROVED PLANS HAVE BEEN NOTED AND ARE CONSIDERED ACCEPTABLE TO THE CONSULTANT.

SIGNATURE _____ DATE _____ SEAL _____

CITY DWG. #62-219-007
CITY FILE #ZS-2020-09



FOX & ASSOCIATES, INC.
ENGINEERS • SURVEYORS • PLANNERS

82 WORMANS MILL COURT
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HAGERSTOWN, MD 21750
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www.foxassocinc.com

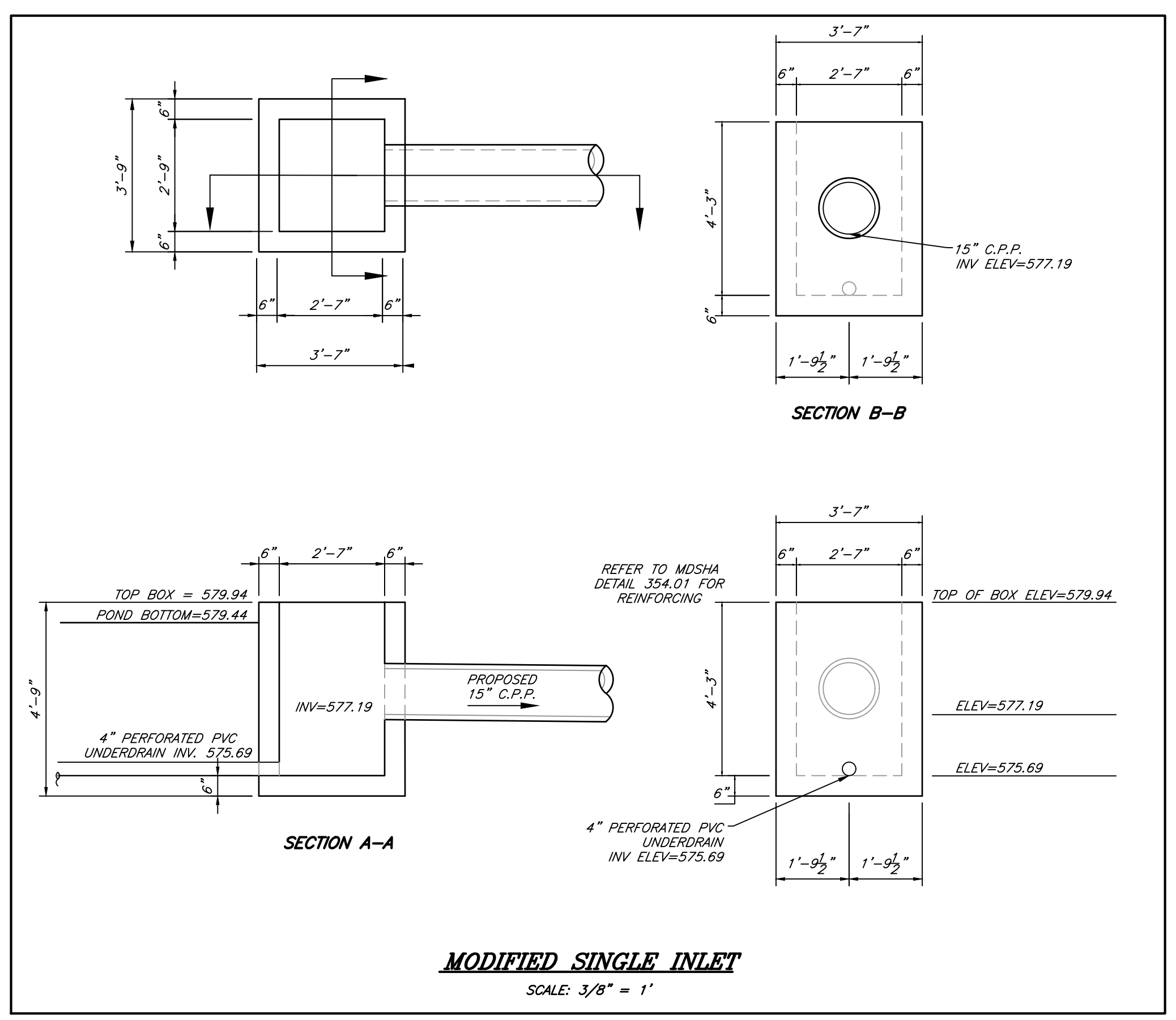
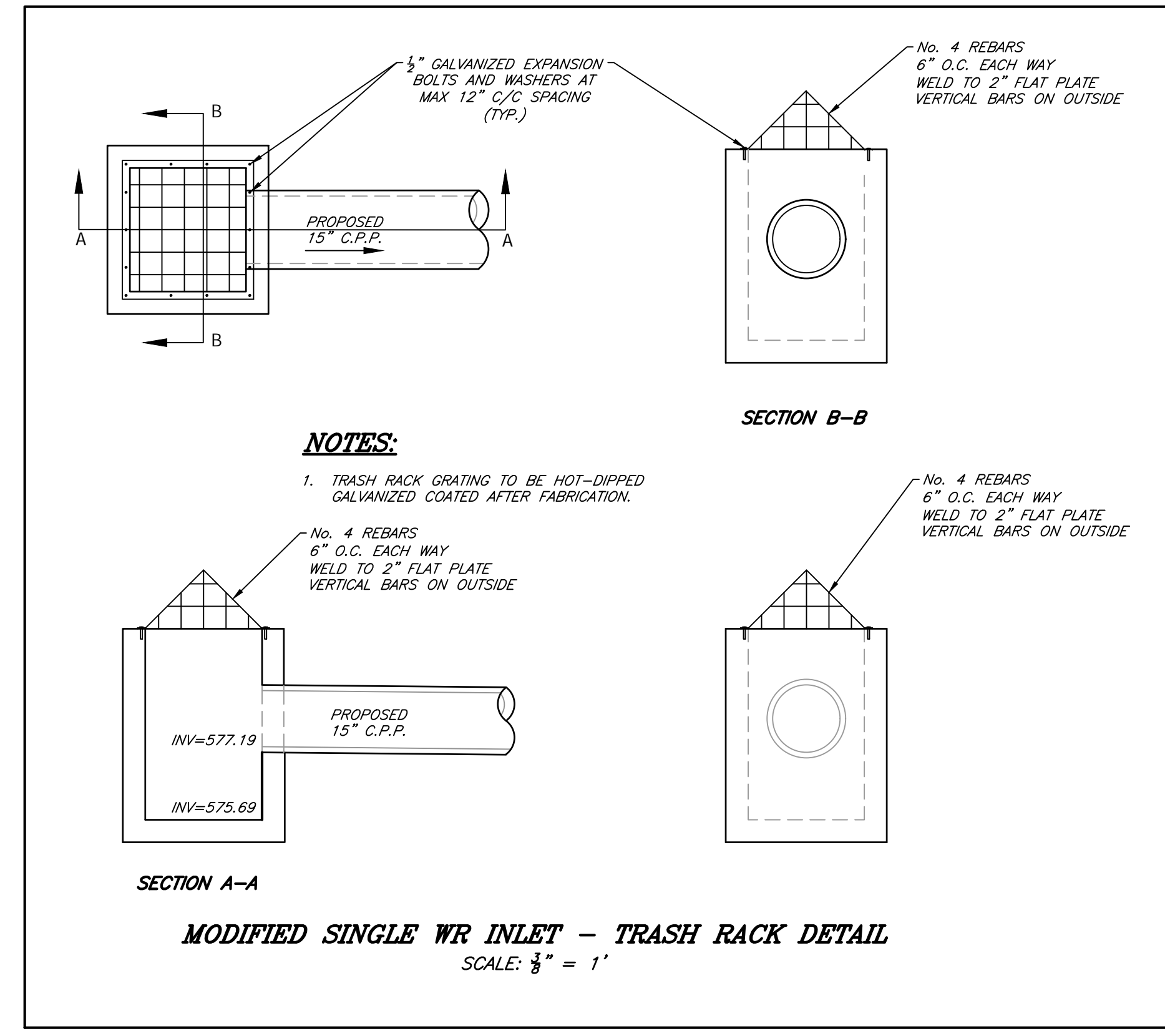
DRAWN BY	
REVISION	
DATE	

STORMWATER MANAGEMENT NOTES & DETAILS
CITY PARK TRAIN HUB LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
SITUATE AT 730 CITY PARK DRIVE
CITY OF HAGERSTOWN
WASHINGTON COUNTY, MARYLAND

SCALE: 1" = 10'



PROJECT NO. 19-31556
DRAWING NO. D-6554
DATE: JULY, 2020
DRAWN BY: R.L.B.
CHECKED BY: G.S.P.

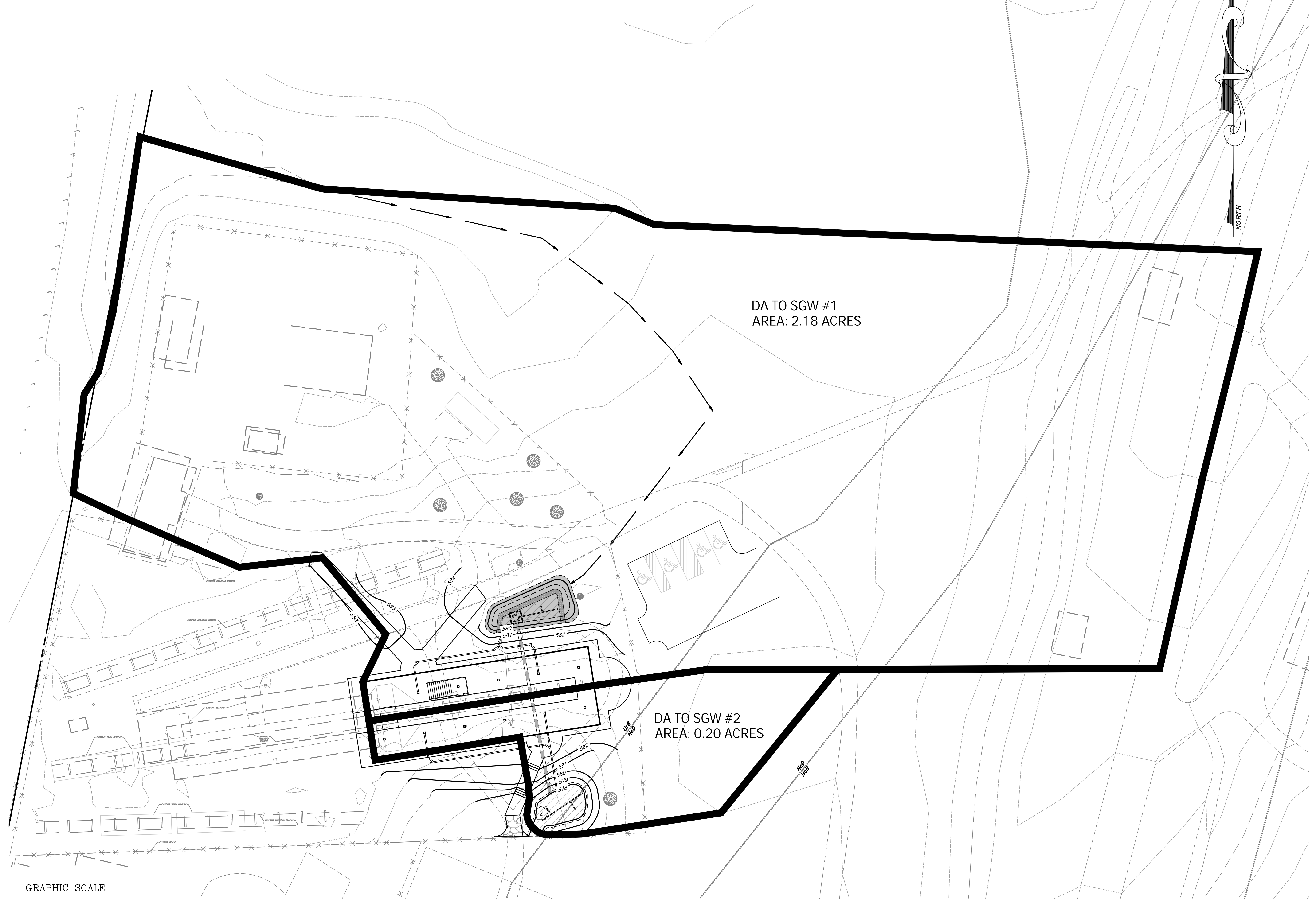


R:\17121256_City_Park_Train_Hub_Mod_Engineering\Drawings\DWG-Improvement_Plan\DWG-509-509-509-509-509.dwg, May 18, 2023, 10:25:00am, User: rbaumann

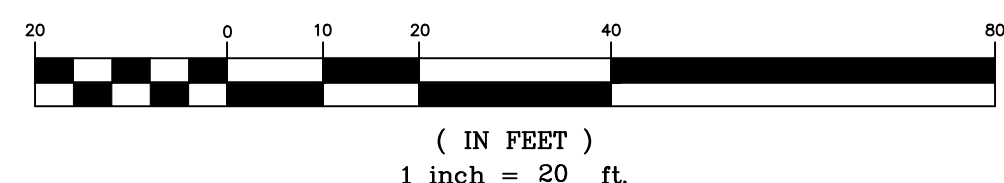
SOIL TYPES ON SITE

HcD HAGERSTOWN-ROCK OUTCROP COMPLEX 15 TO 25 PERCENT SLOPES; B SOIL
 UFB URBAN LAND 0 TO 8 PERCENT SLOPES; D SOIL

NOTES: PAGE 103 OF THE U.S.D.A. SOIL SURVEY OF WASHINGTON COUNTY LISTS HcD SOILS AS "KARST LANDSCAPE" SOILS. CONTRACTOR SHOULD BE ALERT FOR POSSIBLE SINKHOLES.



GRAPHIC SCALE



FOX & ASSOCIATES, INC.
 ENGINEERS • SURVEYORS • PLANNERS
 82 WORMANS MILL COURT
 SUITE 'C'
 FREDERICK, MD. 21701
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 or (301)416-7250
 FAX: (301)733-1853
 www.foxassoc.com
 Email: foxassoc@foxassoc.com

DATE	REVISION	DRAWN BY

DRAINAGE AREA MAP
CITY PARK TRAIN HUB LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
 SITUATE AT 730 CITY PARK DRIVE
 CITY OF HAGERSTOWN
 WASHINGTON COUNTY, MARYLAND

SCALE: 1"=20'

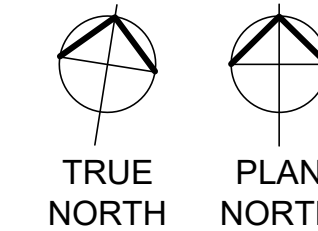


I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
 LICENSE No.: 27053 EXP. DATE: 1/25/24

PROJECT NO. 19-31556
 DRAWING NO. D-6554
 DATE: JULY, 2020
 DRAWN BY: A.L.P.
 CHECKED BY: G.S.P.

CITY DWG. #62-219-008
 CITY FILE #ZS-2020-09

SHEET 7 OF 7



Proffitt & Assoc.
ARCHITECTS

49 SOUTH CARROLL STREET
FREDERICK, MARYLAND 21701
PHONE (301) 662-8532
FAX (301) 662-4192
info@proffittandassociates.com

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT IN THE STATE OF MARYLAND.
LICENSE No. 14510
EXPIRATION DATE 03 / 07 / 2024



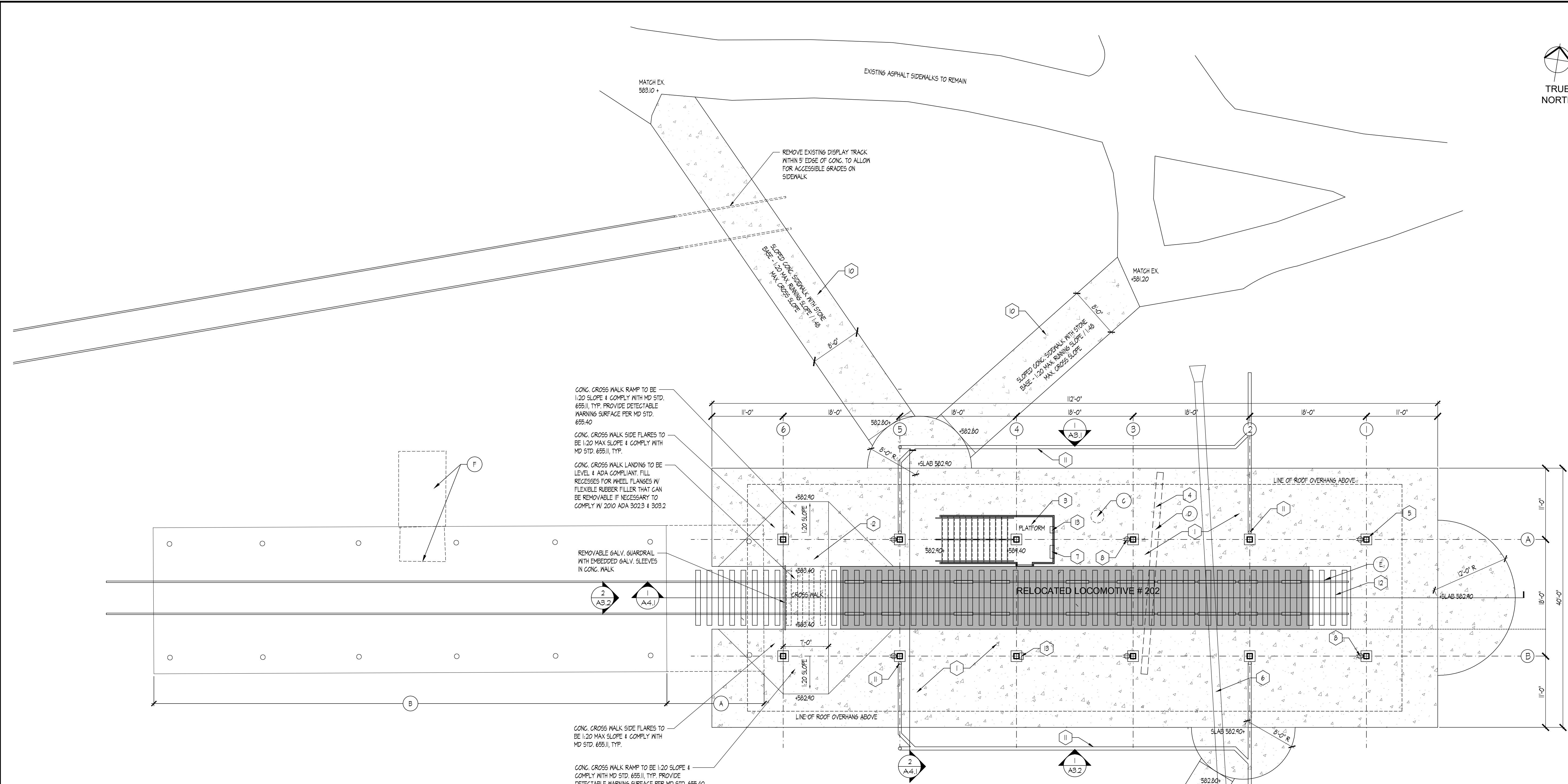
SEAL

CITY PARK TRAIN HUB
LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
AT HAGERSTOWN RAILROAD MUSEUM
730 CITY PARK DRIVE,
HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740
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ISSUE		
REV	DATE	DESCRIPTION

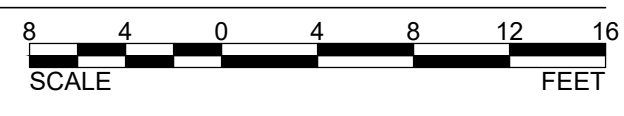
PROJECT NO.: 19-36
DATE: 05 / 23 / 2023
LOCOMOTIVE PAVILION FLOOR PLAN
SHEET 62-219-009

A1.1

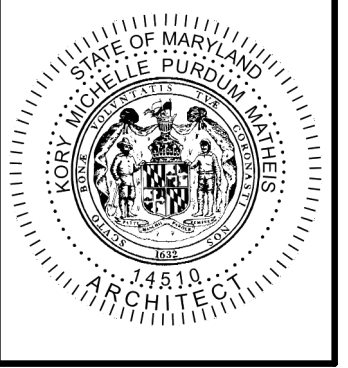


KEY NOTES	
GENERAL DEMOLITION NOTES:	
I.	CONFIRM LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING FOR DRAIN PIPE AND CONCRETE FOUNDATIONS
SELECTIVE DEMOLITION AND EXISTING CONDITIONS NOTES:	
A	REMOVE EASTERN BAY FROM EXISTING PAVILION STRUCTURE INCLUDING ROOF, SUPPORT POSTS, AND FOOTINGS
B	EXISTING PAVILION TO REMAIN
C	REMOVE EXISTING SIGNAL EQUIPMENT AND STORE FOR FUTURE RELOCATION
D	EXISTING GMP DRAIN PIPE TO BE ABANDONED IN PLACE
E	REMOVE EXISTING TRACK TO ACCOMMODATE CONSTRUCTION OF PAVILION - SALVAGE RAIL AND TIE PLATES FOR REUSE. REMOVE PAINT FROM RAIL AND TIE PLATES PRIOR TO REINSTALLATION
F	REMOVE EXISTING ACCESS STAIRS TO LOCOMOTIVE CAB
SELECTIVE WORK NOTES:	
1	REINFORCED 5' CONCRETE SLAB WITH 6"x6"xM-4xM-4 WALK ON 6" STONE BASE - PROVIDE BROOM FINISH
2	CONCRETE CROSS WALK AT 1:20 SLOPE MAX. - PROVIDE RECESS FOR WHEEL FLANGES
3	PAINTED STEEL ACCESS STAIR AND PLATFORM WITH GUARDRAIL - +589.40 DECK ELEVATION IS INTENDED TO MATCH ELEVATION OF CAB GANGWAY - CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF STAIRS
4	FILL EXISTING GMP PIPE WITH LEAN CONCRETE TO PREVENT COLLAPSE
5	10"x10" PAINTED (PTD-I) STEEL TUBE COLUMN (SEE STRUCTURAL) WITH FOUR PAINTED CUSTOM ARCHITECTURAL WOOD BRACKETS (SEE DETAIL 5 / A1.2) PER COLUMN - TYP. OF 12
6	15" HDPE DRAINAGE PIPE - SEE CIVIL
7	ELECTRICAL PANEL AND LIGHTING CONTROLS
8	QUAD ELECTRICAL OUTLET MOUNTED ON SUPPORT COLUMN 24" ABOVE SLAB - TYP. OF 6
9	CONCRETE STAIRS - 1" RISE MAX. & 11" TREAD DEPTH MIN. - WITH GALVANIZED METAL HANDRAILS 36" HT. MAX. A.F.F. ON BOTH SIDES OF STAIRS WITH 12" MIN. HANDRAIL EXTENSIONS AT TOP & BOTTOM, TYP.
10	CONCRETE SIDEWALK - SEE CIVIL
11	PVC DOWNSPOUT BOOT WITH RAINDLEADER TO RAIN GARDEN - SEE CIVIL - TYP. OF 4
12	REINSTALL TRACK WITH WOOD TIES, SALVAGED TIE PLATES, AND RAIL
13	FIRE EXTINGUISHER CABINET - TYP. OF 2

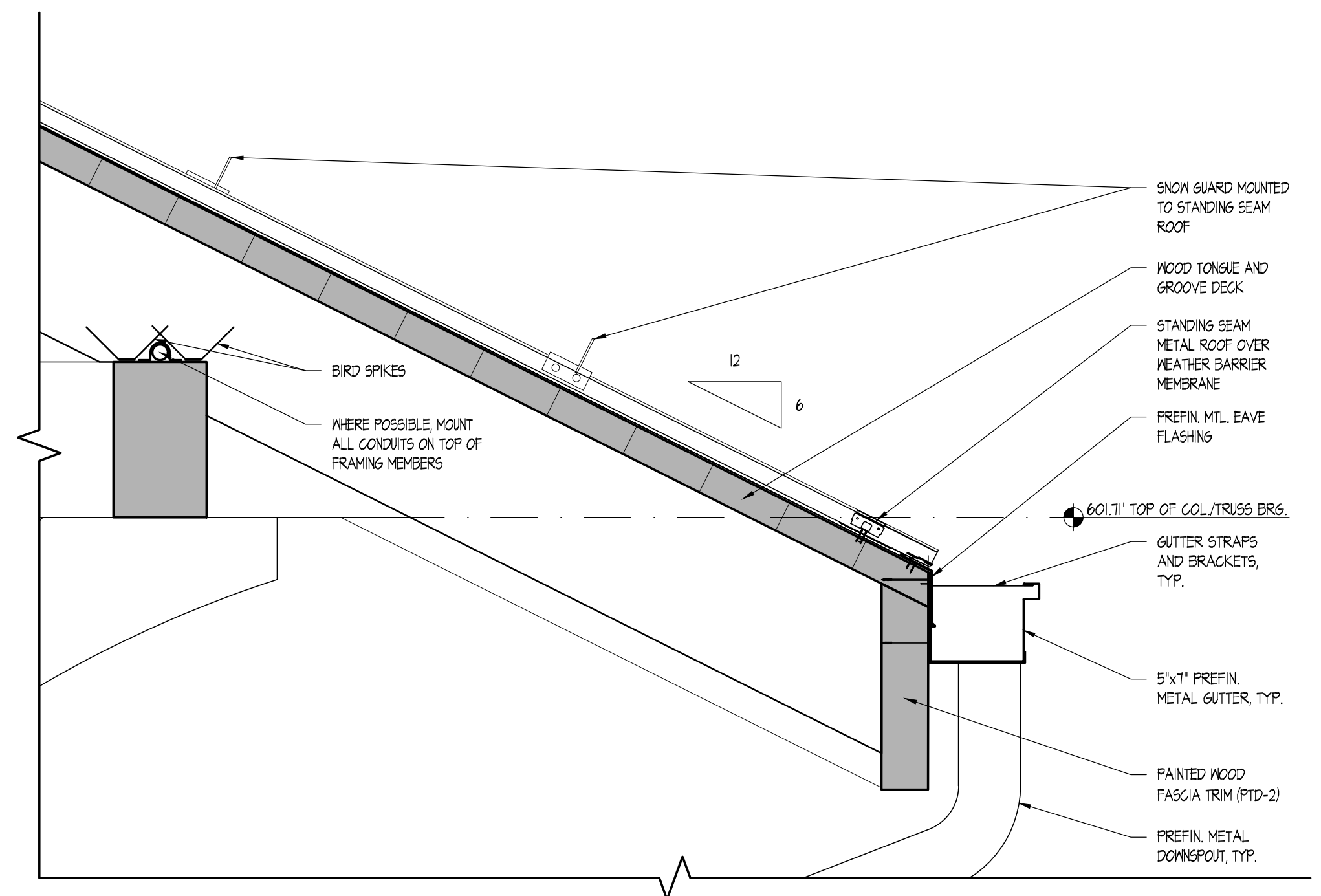
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A1.1 LOCOMOTIVE PAVILION FLOOR PLAN
SCALE: 1/8" = 1'-0"



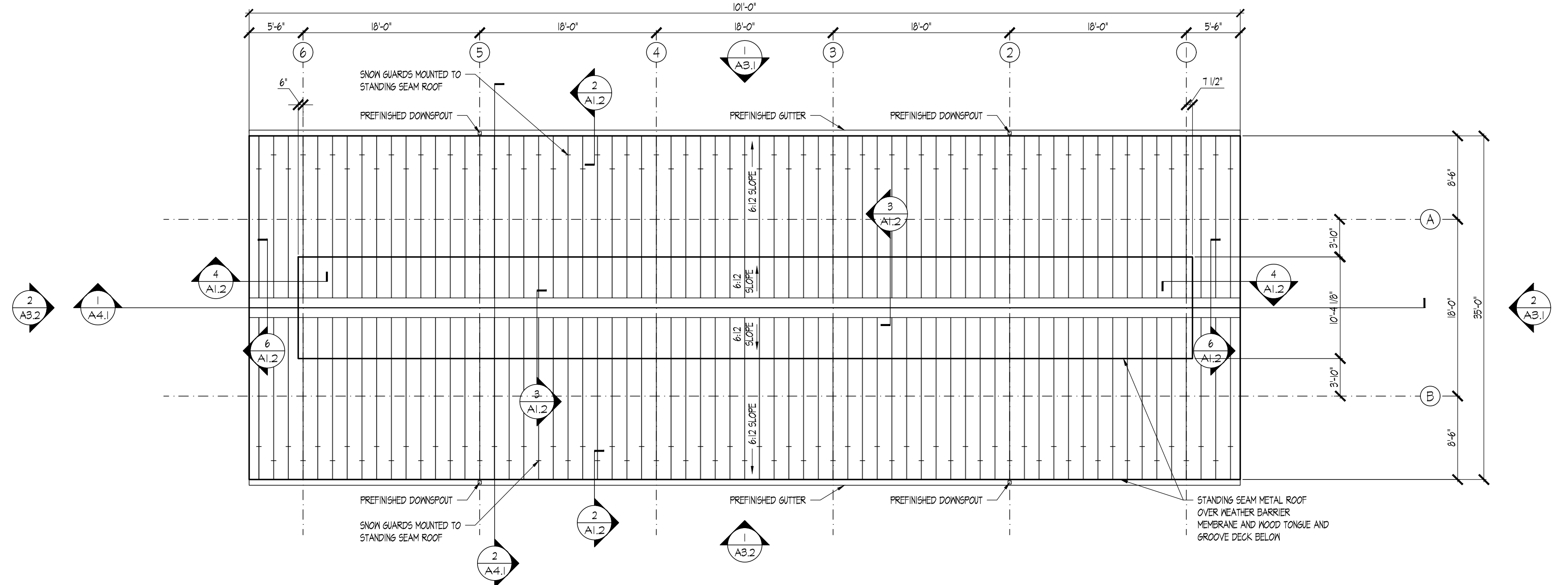
NOTE: ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING



ISSUE		
REV	DATE	DESCRIPTION



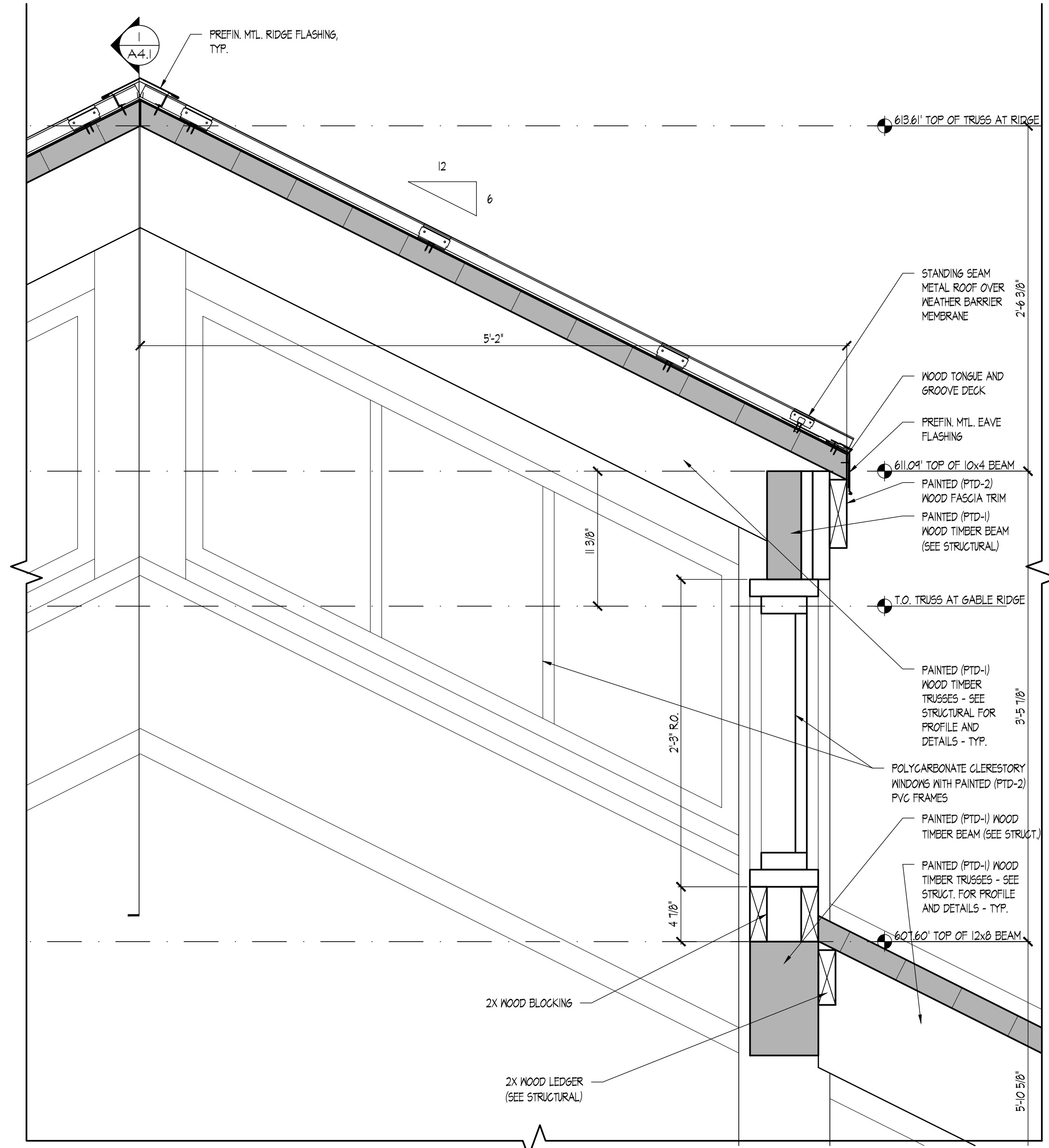
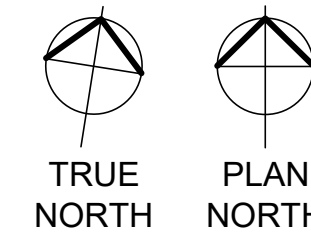
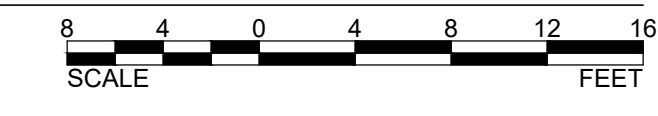
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A1.2 TYPICAL EAVE DETAIL
SCALE: 1-1/2" = 1'-0"



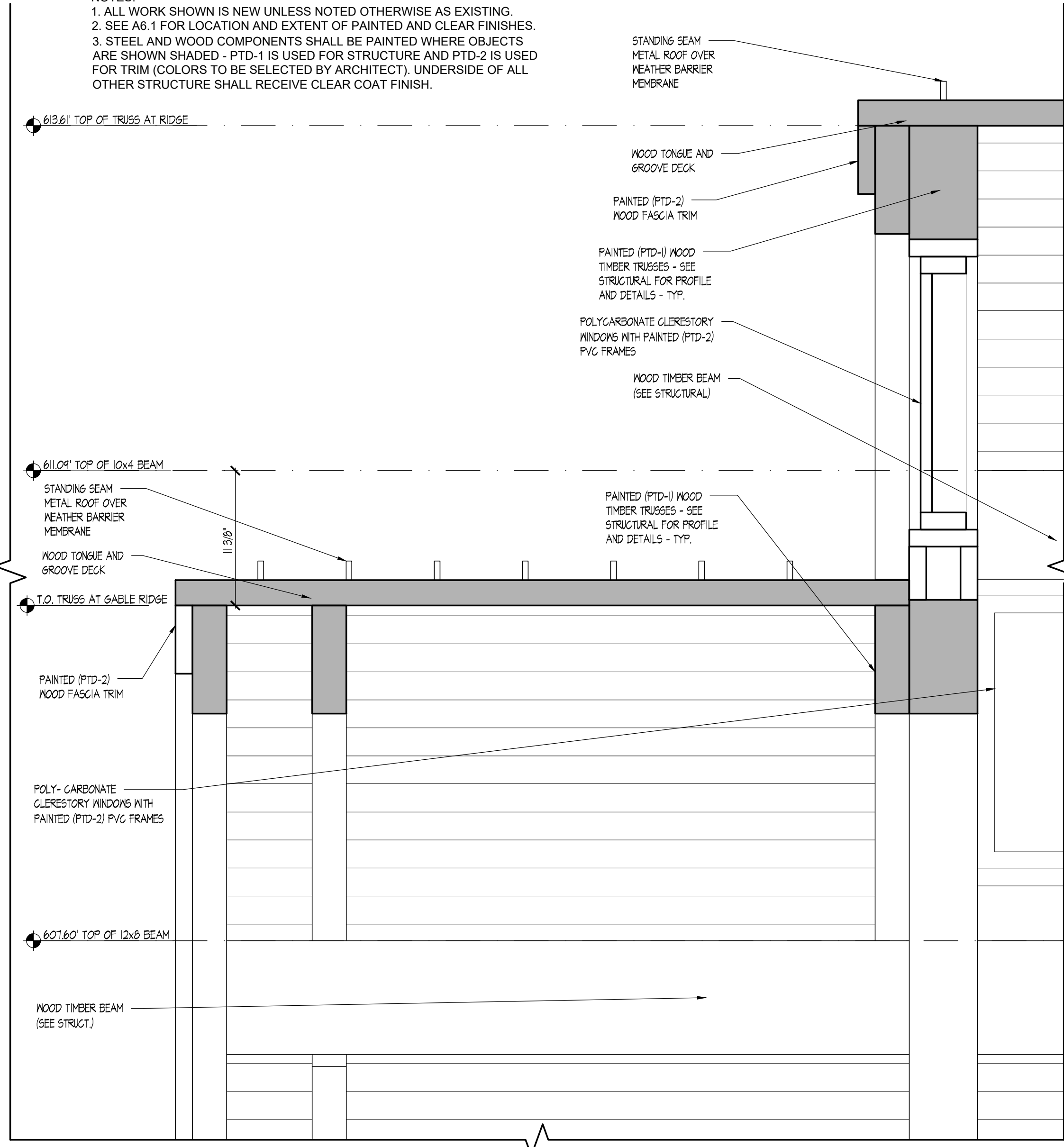
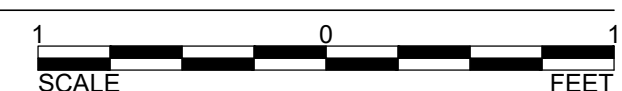
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A1.2 LOCOMOTIVE PAVILION ROOF PLAN
SCALE: 1/8" = 1'-0"

NOTE: ALL WORK SHOWN IS UNLESS NOTED OTHERWISE AS EXISTING

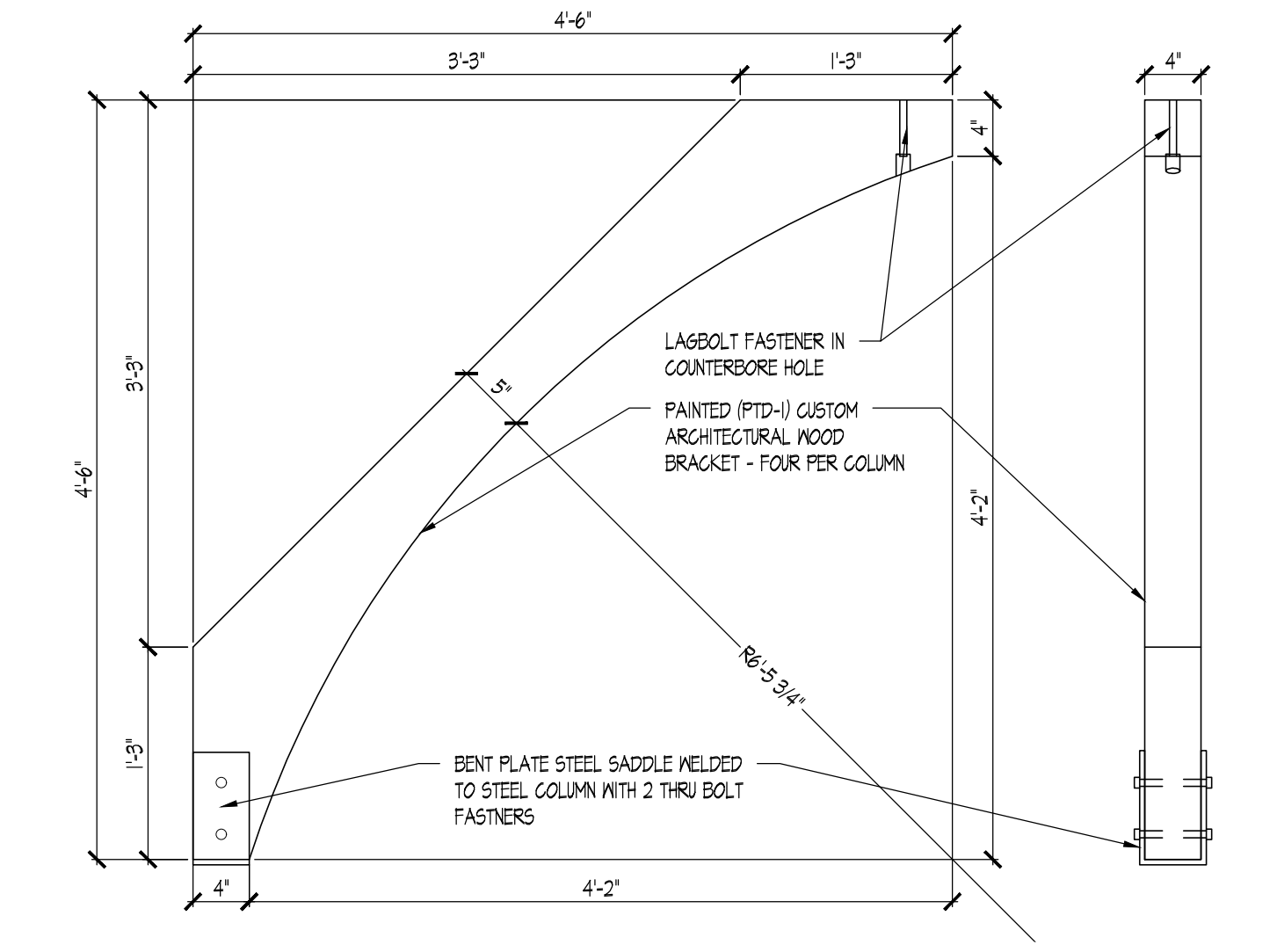
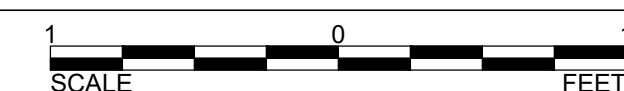
- NOTES:
1. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING.
2. SEE A6.1 FOR LOCATION AND EXTENT OF PAINTED AND CLEAR FINISHES.
3. STEEL AND WOOD COMPONENTS SHALL BE PAINTED WHERE OBJECTS ARE SHOWN SHADED - PTD-1 IS USED FOR STRUCTURE AND PTD-2 IS USED FOR TRIM (COLORS TO BE SELECTED BY ARCHITECT). UNDERSIDE OF ALL OTHER STRUCTURE SHALL RECEIVE CLEAR COAT FINISH.



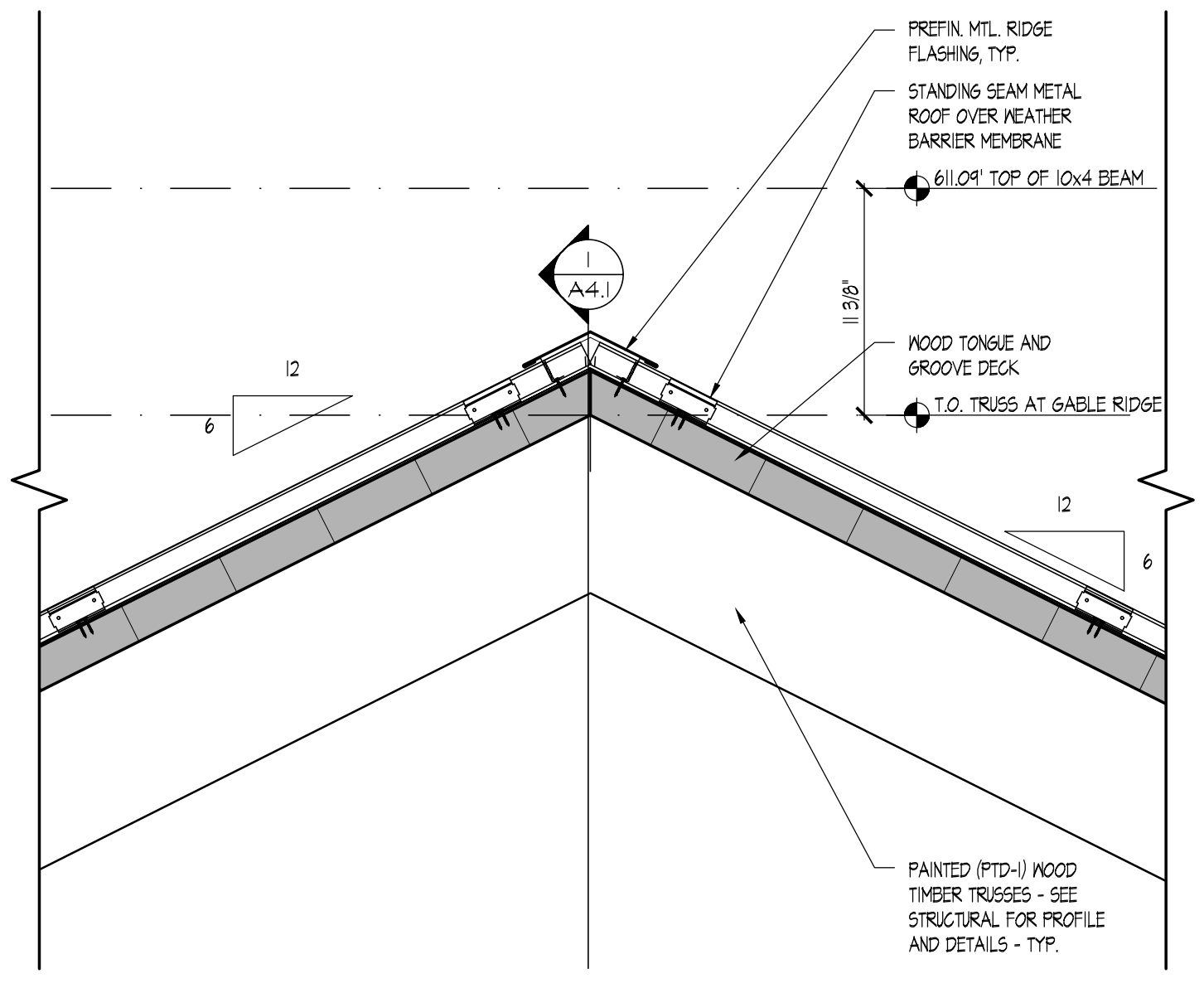
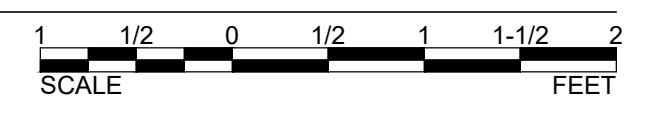
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A1.2 TYPICAL CLERESTORY EAVE & SILL DETAIL
SCALE: 1-1/2" = 1'-0"



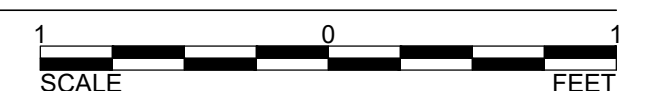
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A1.2 TYPICAL GABLE RAKE DETAIL
SCALE: 1-1/2" = 1'-0"

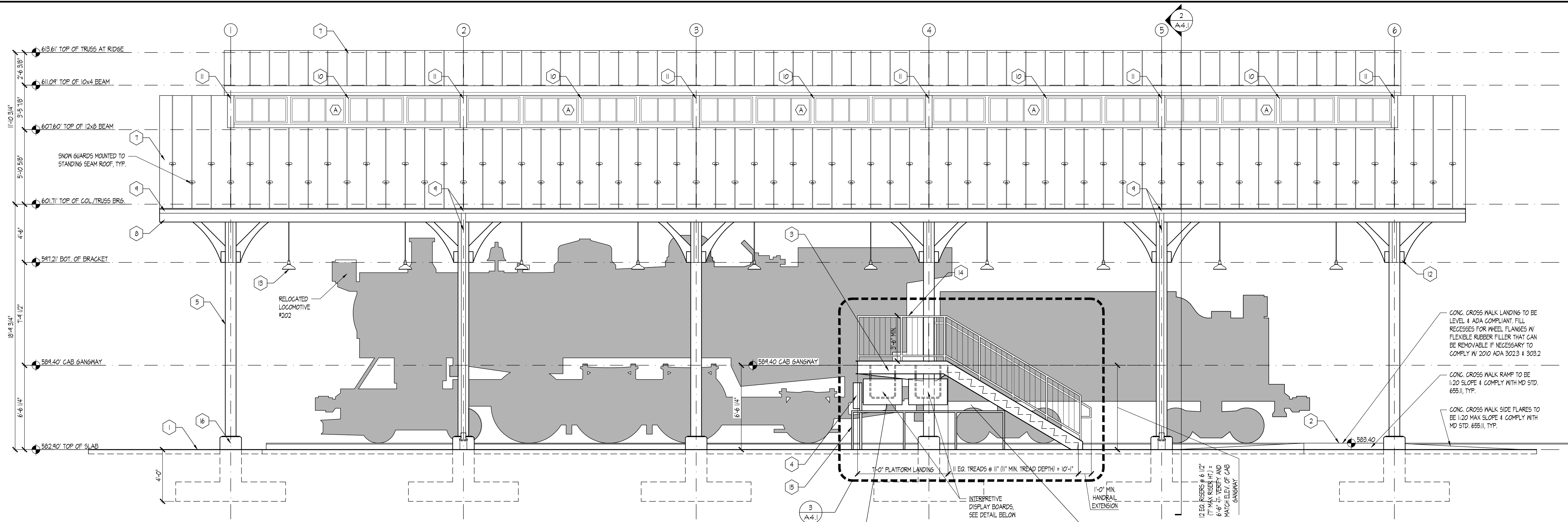


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A1.2 BRACKET PROFILE DETAIL
SCALE: 1" = 1'-0"

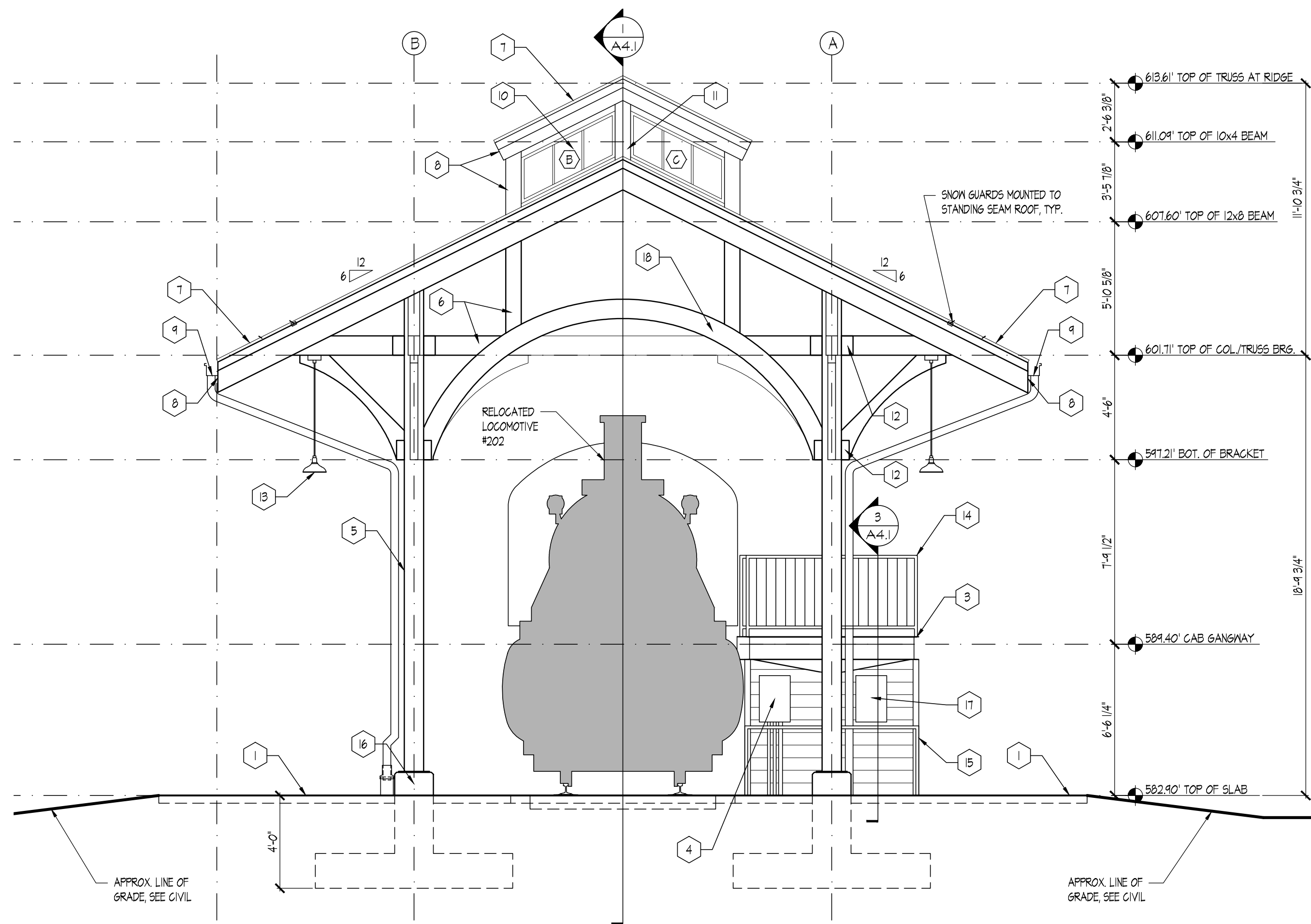


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A1.2 TYPICAL EAVE DETAIL
SCALE: 1-1/2" = 1'-0"

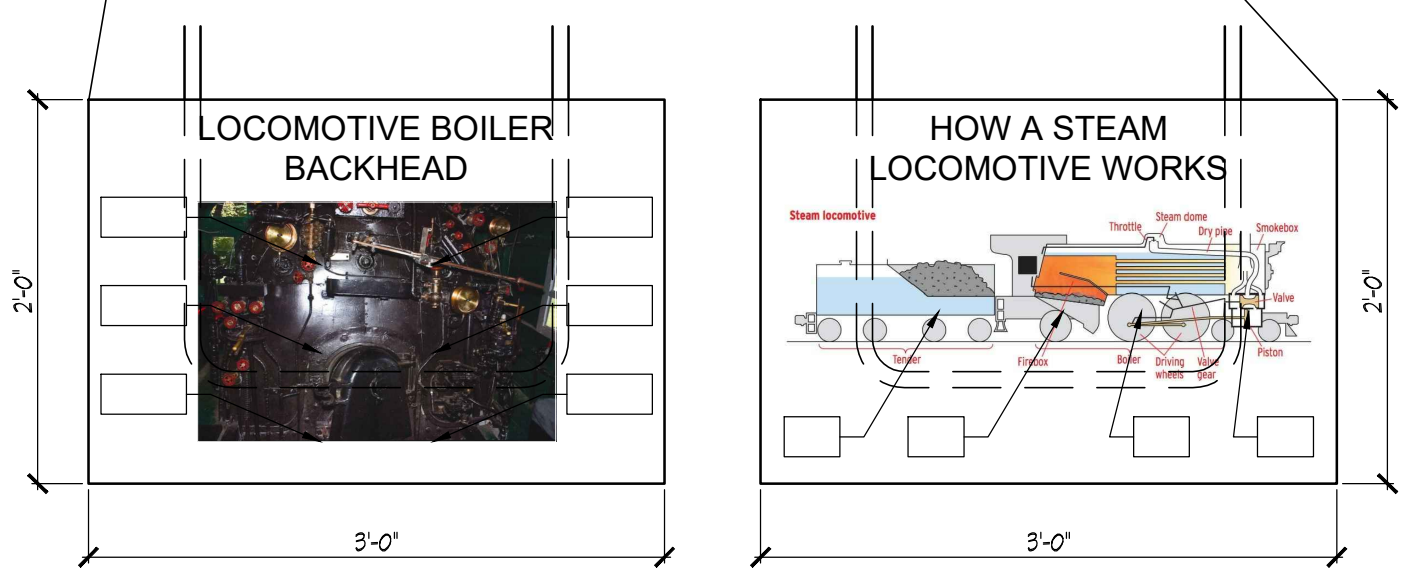




1
A3.1 NORTH ELEVATION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"
SCALE 0 2 4 6 8 FEET



2
A3.1 EAST ELEVATION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"
SCALE 0 2 4 6 8 FEET



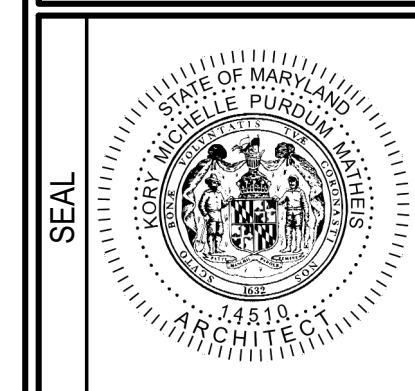
DETAIL NOTES:
1. DISPLAY BOARDS SHALL CONSIST OF PRINTED VINYL GRAPHICS - (ARTWORK TO BE PROVIDED BY THE ARCHITECT) LAMINATED ONTO 3/4" PVC BOARD.
2. ATTACH DISPLAY BOARDS TO "U" BRACKETS.
3. "U" BRACKETS SHALL BE PAINTED SQUARE STEEL TUBE WELDED TO STAIR STRUCTURE ABOVE.
4. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

3
A3.1 INTERPRETIVE DISPLAY BOARDS
SCALE: 1" = 1'-0"
SCALE 0 1/2 1 1-1/2 2 FEET

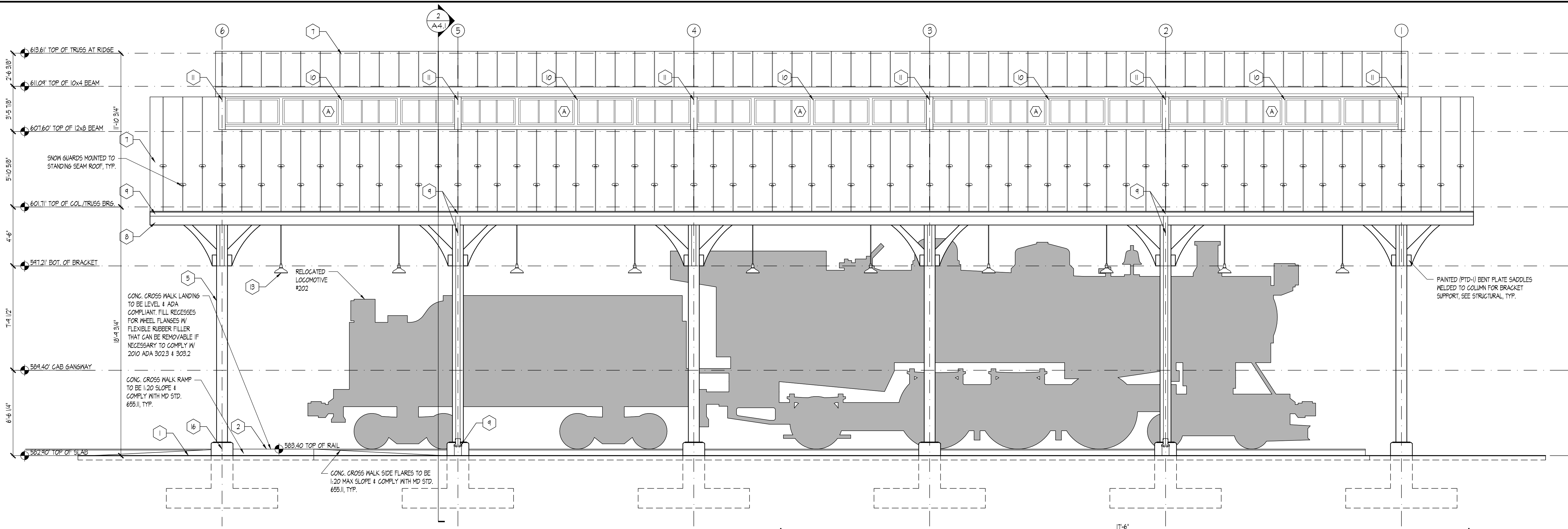
NOTES:
1. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING.
2. SEE A6.1 FOR LOCATION AND EXTENT OF PAINTED AND CLEAR FINISHES.
3. STEEL AND WOOD COMPONENTS SHALL BE PAINTED WHERE OBJECTS ARE SHOWN SHADED - PTD-1 IS USED FOR STRUCTURE AND PTD-2 IS USED FOR TRIM (COLORS TO BE SELECTED BY ARCHITECT). UNDERSIDE OF ALL OTHER STRUCTURE SHALL RECEIVE CLEAR COAT FINISH.

KEY NOTES

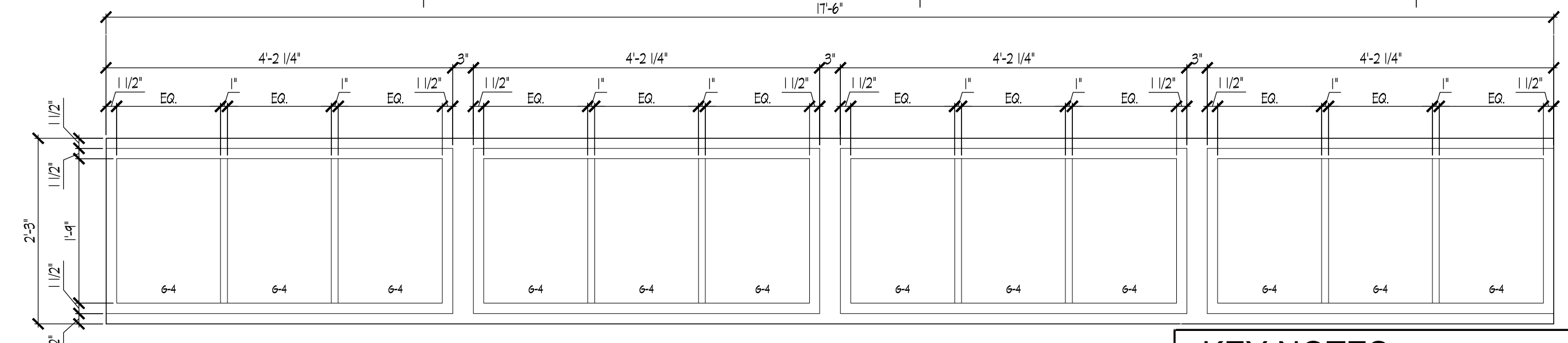
- SELECTIVE WORK NOTES:**
- 1 REINFORCED 5' CONCRETE SLAB WITH 6"x6"x4"x4" MIN. ON 6" STONE BASE - PROVIDE BROOM FINISH
 - 2 CONCRETE CROSS WALK AT 1:20 SLOPE MAX - PROVIDE RECESS FOR WHEEL FLANGES
 - 3 PAINTED STEEL ACCESS STAIR AND PLATFORM WITH GUARDRAIL - 589.40 DECK ELEVATION IS INTENDED TO MATCH ELEVATION OF CAB GANGWAY - CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF STAIRS
 - 4 ELECTRICAL PANEL & LIGHTING CONTROLS IN LOCKABLE CABINET (SEE ELECTRICAL), TYP.
 - 5 10'x10' PAINTED (PTD-1) STEEL TUBE COLUMN WITH FOUR PAINTED CUSTOM ARCHITECTURAL WOOD BRACKETS (SEE DETAIL 5 / A1.2) PER COLUMN - TYP. OF 12
 - 6 WOOD TIMBER ROOF TRUSSES AND BEAMS (PTD-1)
 - 7 STANDING SEAM METAL ROOF OVER WEATHER BARRIER MEMBRANE AND WOOD TONGUE AND GROOVE DECK ON WOOD TIMBER TRUSSES & WOOD RAFTERS
 - 8 PAINTED (PTD-2) WOOD FASCIA TRIM
 - 9 PREFINISHED METAL GUTTERS AND DOWNSPOUTS TO PVC BOOT - CONNECT TO STORM DRAIN - SEE CIVIL FOR CONTINUATION
 - 10 POLYCARBONATE CLERESTORY WINDOWS WITH COMPOSITE FRAME
 - 11 PAINTED WOOD TRIM (PTD-2)
 - 12 PAINTED (PTD-1) BENT PLATE SADDLES WELDED TO COLUMN FOR TRUSS & BEAM SUPPORT
 - 13 PENDANT LIGHT (SEE ELECTRICAL), TYP.
 - 14 PAINTED (PTD-2) METAL POSTS, GUARDRAIL (3'-6" HT. A.F.F.), HANDRAIL (2'-10" HT. A.F.F.), PICKETS, AND BOTTOM RAILS (SEE DETAIL 3 / A4.1), TYP.
 - 15 PAINTED (PTD-2) METAL POSTS & GUARDRAIL FOR BARRIER @ VERTICAL CLEARANCE PER 2010 ADA 301.4, TYP.
 - 16 30" DIA. CANTILEVERED CONG. PIER FOOTINGS IN 20'x20' SQUARE COL. BASE 12" ABOVE FLR. SLAB & 16"x6" BASE PLATE, TYP.
 - 17 FIRE EXTINGUISHER CABINET.
 - 18 STRUCTURAL LAMINATED WOOD ARCHED FRAMING MEMBER - EAST END TRUSS ONLY (PTD-1)



ISSUE		
REV	DATE	DESCRIPTION



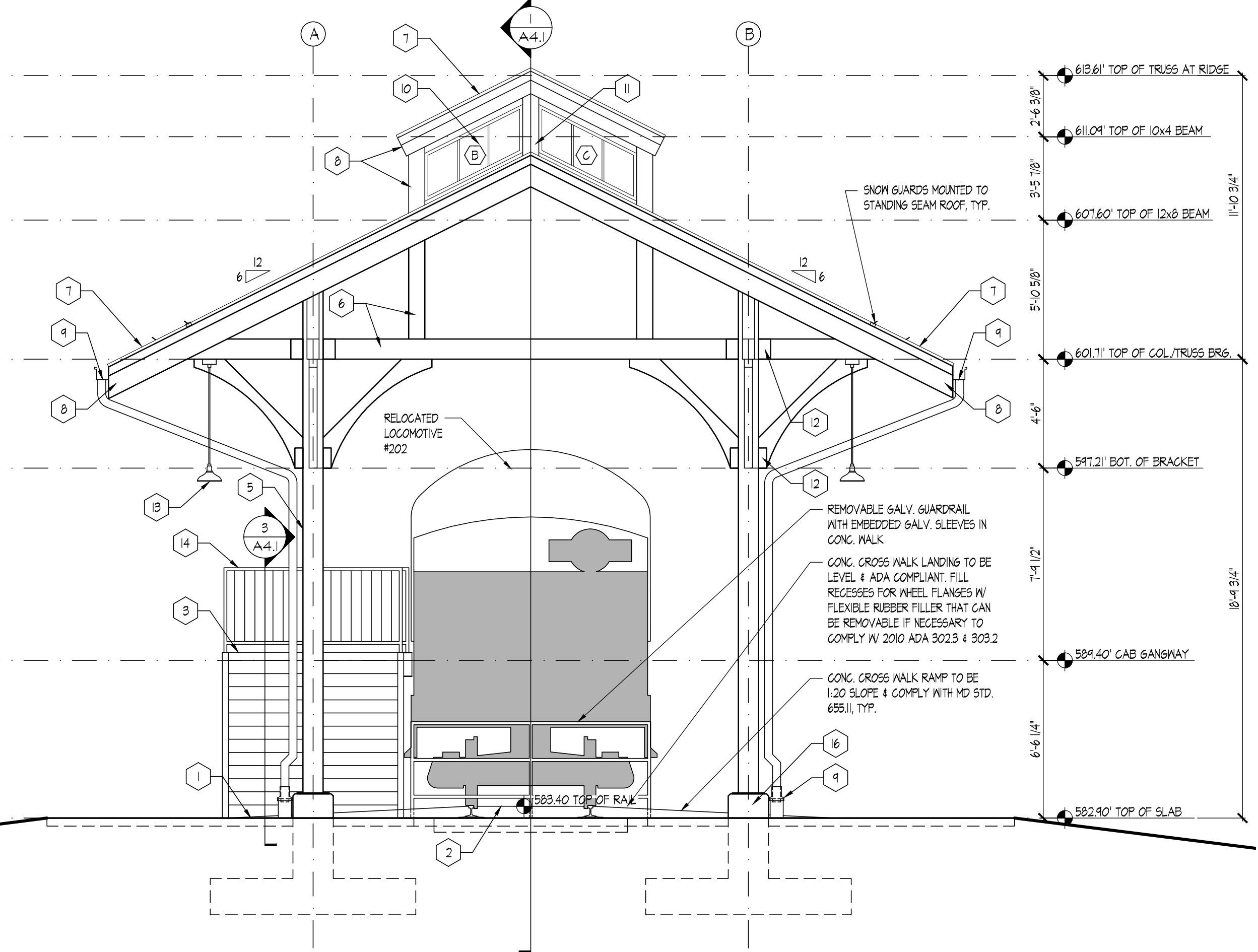
1
A3.2 SOUTH ELEVATION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"



3
A3.2 TYPICAL WINDOW TYPES
SCALE: 3/4" = 1'-0"

WINDOW SCHEDULE						
TYPE	WIDTH	HEIGHT	MATERIAL	FINISH	QUANTITY	REMARKS
A	17'-6"	2'-9"	POLYCARB.	PREFIN.	10	FOUR (4) EQUAL SIZED FIXED POLYCARBONATE WINDOWS IN THREE (3) EQUAL SIZED LITES @ EACH
B	4'-0 1/2"	4'-0"	POLYCARB.	PREFIN.	2	FIXED POLYCARBONATE WINDOW IN THREE (3) EQUAL SIZED LITES
C	4'-0 1/2"	4'-0"	POLYCARB.	PREFIN.	2	FIXED POLYCARBONATE WINDOW IN THREE (3) EQUAL SIZED LITES

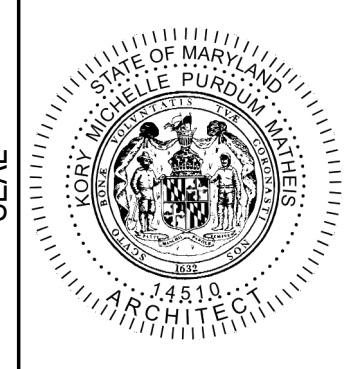
NOTES:
1. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING.
2. SEE A6.1 FOR LOCATION AND EXTENT OF PAINTED AND CLEAR FINISHES.
3. STEEL AND WOOD COMPONENTS SHALL BE PAINTED WHERE OBJECTS ARE SHOWN SHADED - PTD-1 IS USED FOR STRUCTURE AND PTD-2 IS USED FOR TRIM (COLORS TO BE SELECTED BY ARCHITECT). UNDERSIDE OF ALL OTHER STRUCTURE SHALL RECEIVE CLEAR COAT FINISH.



2
A3.2 WEST ELEVATION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"

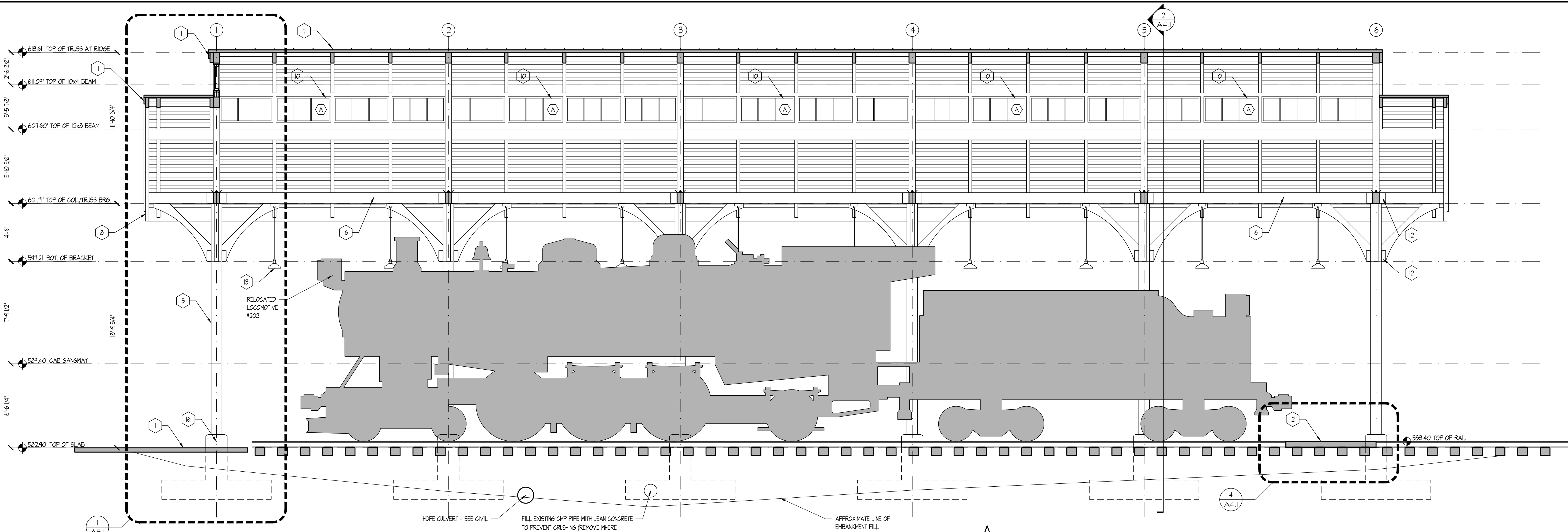
KEY NOTES

- SELECTIVE WORK NOTES:
- 1 REINFORCED 5' CONCRETE SLAB WITH 6"x6" W/4X4X4 KX/M ON 6" STONE BASE - PROVIDE BROOM FINISH
 - 2 CONCRETE CROSS WALK AT 1:20 SLOPE MAX - PROVIDE RECESS FOR WHEEL FLANGES
 - 3 PAINTED STEEL ACCESS STAIR AND PLATFORM WITH GUARDRAIL - 1584.40 DECK ELEVATION IS INTENDED TO MATCH ELEVATION OF CAB GANGWAY - CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF STAIRS
 - 4 ELECTRICAL PANEL & LIGHTING CONTROLS IN LOCKABLE CABINET (SEE ELECTRICAL), TYP.
 - 5 10"x10" PAINTED (PTD-1) STEEL TUBE COLUMN WITH FOUR PAINTED CUSTOM ARCHITECTURAL WOOD BRACKETS (SEE DETAIL 5 / A12) PER COLUMN - TYP. OF 12
 - 6 WOOD TIMBER ROOF TRUSSES AND BEAMS (PTD-1)
 - 7 STANDING SEAM METAL ROOF OVER WEATHER BARRIER MEMBRANE AND WOOD TONGUE AND GROOVE DECK ON WOOD TIMBER TRUSSES & WOOD RAFTERS
 - 8 PAINTED (PTD-2) WOOD FASCIA TRIM
 - 9 PREFINISHED METAL GUTTERS AND DOWNSPOUTS TO PVC BOOT - CONNECT TO STORM DRAIN - SEE CIVIL FOR CONTINUATION
 - 10 POLYCARBONATE GLESTERY WINDOWS WITH COMPOSITE FRAME
 - 11 PAINTED WOOD TRIM (PTD-2)
 - 12 PAINTED (PTD-1) BENT PLATE SADDLES WELDED TO COLUMN FOR TRUSS & BEAM SUPPORT
 - 13 PENDANT LIGHT (SEE ELECTRICAL), TYP.
 - 14 PAINTED (PTD-2) METAL POSTS, GUARDRAIL (3'-6" HT. A.F.F.), HANDRAIL (2'-10" HT. A.F.F.), PICKETS, AND BOTTOM RAILS (SEE DETAIL 3 / A41), TYP.
 - 15 PAINTED (PTD-2) METAL POSTS & GUARDRAIL FOR BARRIER @ VERTICAL CLEARANCE PER 2010 ADA 301.4, TYP.
 - 16 30" DIA. CANTILEVERED CONG. PIER FOOTINGS IN 20"x20" SQUARE COL. BASE 12" ABOVE FLR. SLAB & 16"x16" BASE PLATE, TYP.
 - 17 FIRE EXTINGUISHER CABINET.
 - 18 STRUCTURAL LAMINATED WOOD ARCHED FRAMING MEMBER - EAST END TRUSS ONLY (PTD-1)

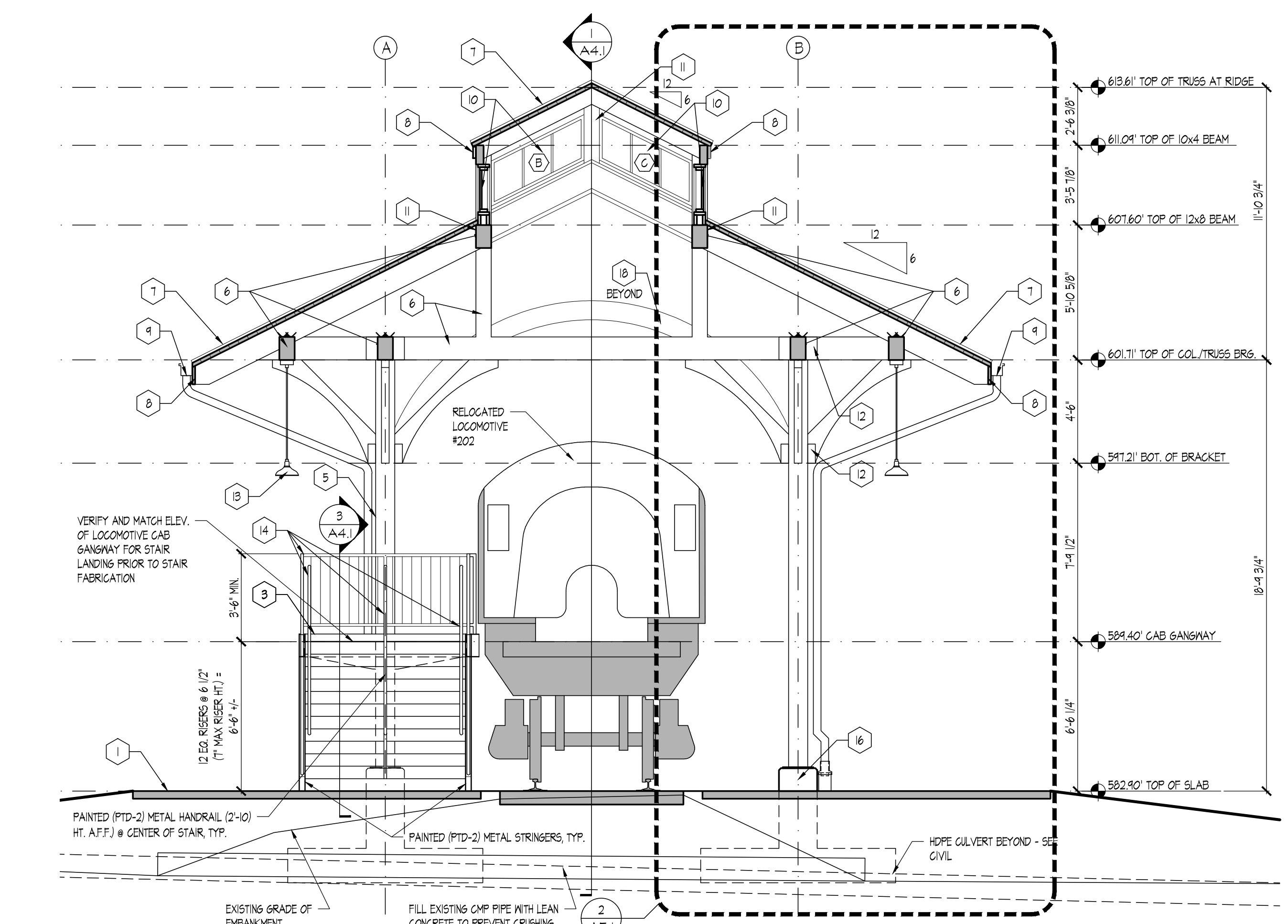
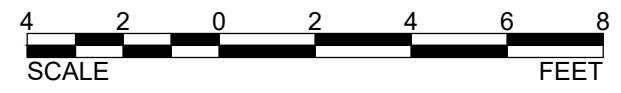


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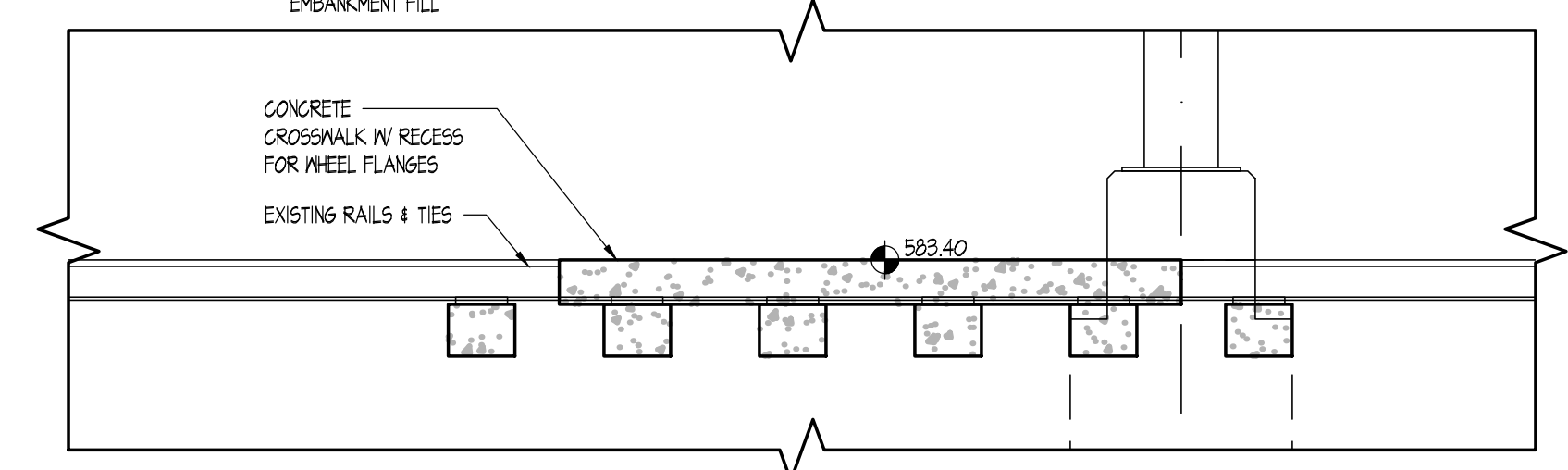
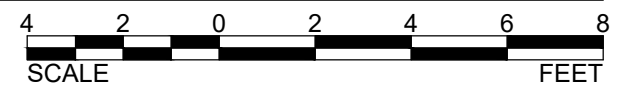
REV	DATE	DESCRIPTION



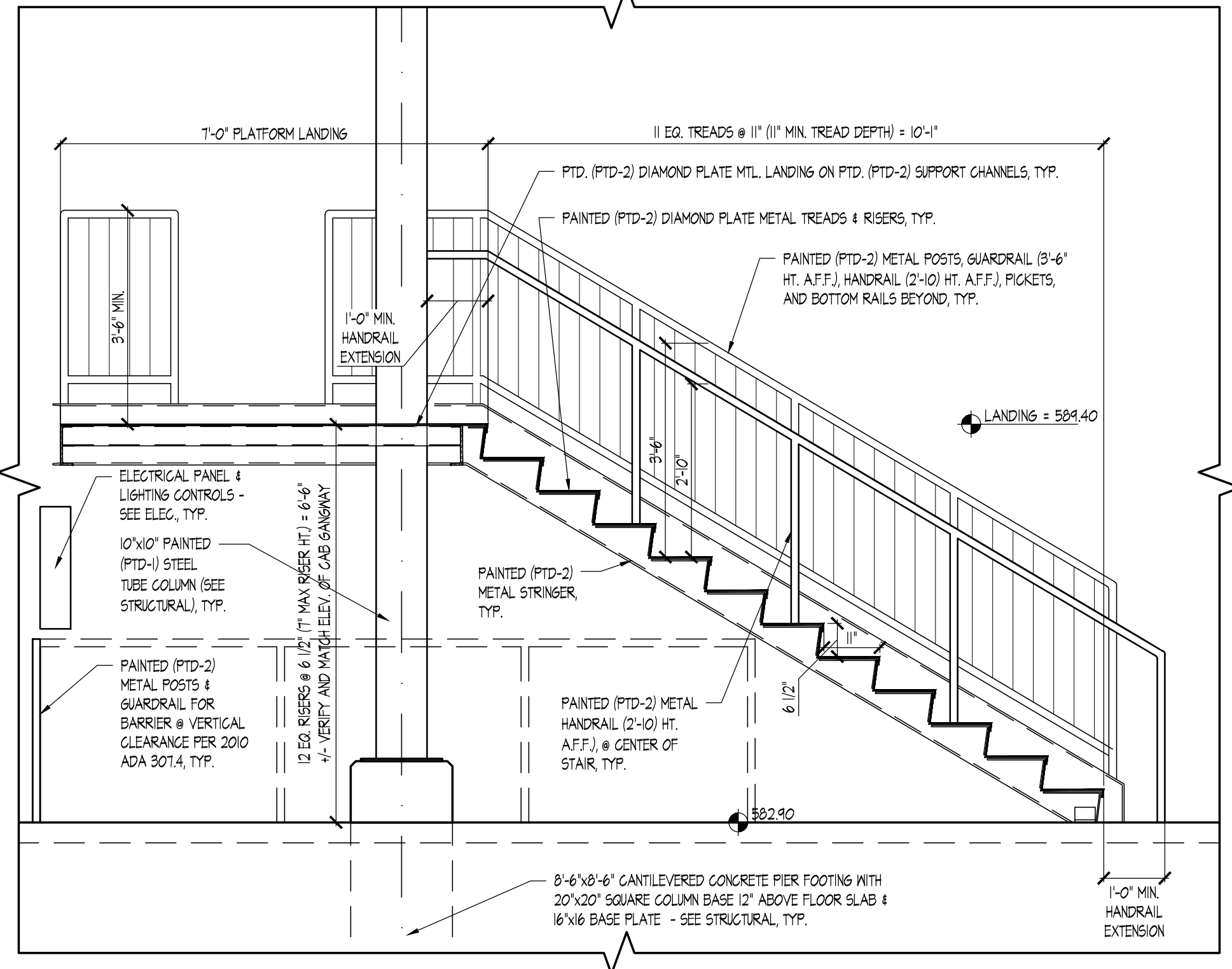
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A4.1 LONGITUDINAL SECTION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"



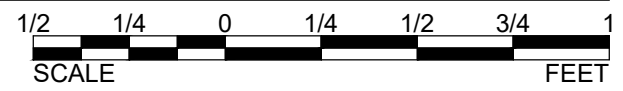
2
A4.1 TRANSVERSE SECTION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"



4
A4.1 SECTION @ CROSSWALK
SCALE: 1/2" = 1'-0"



3
A4.1 SECTION @ STAIR
SCALE: 1/2" = 1'-0"



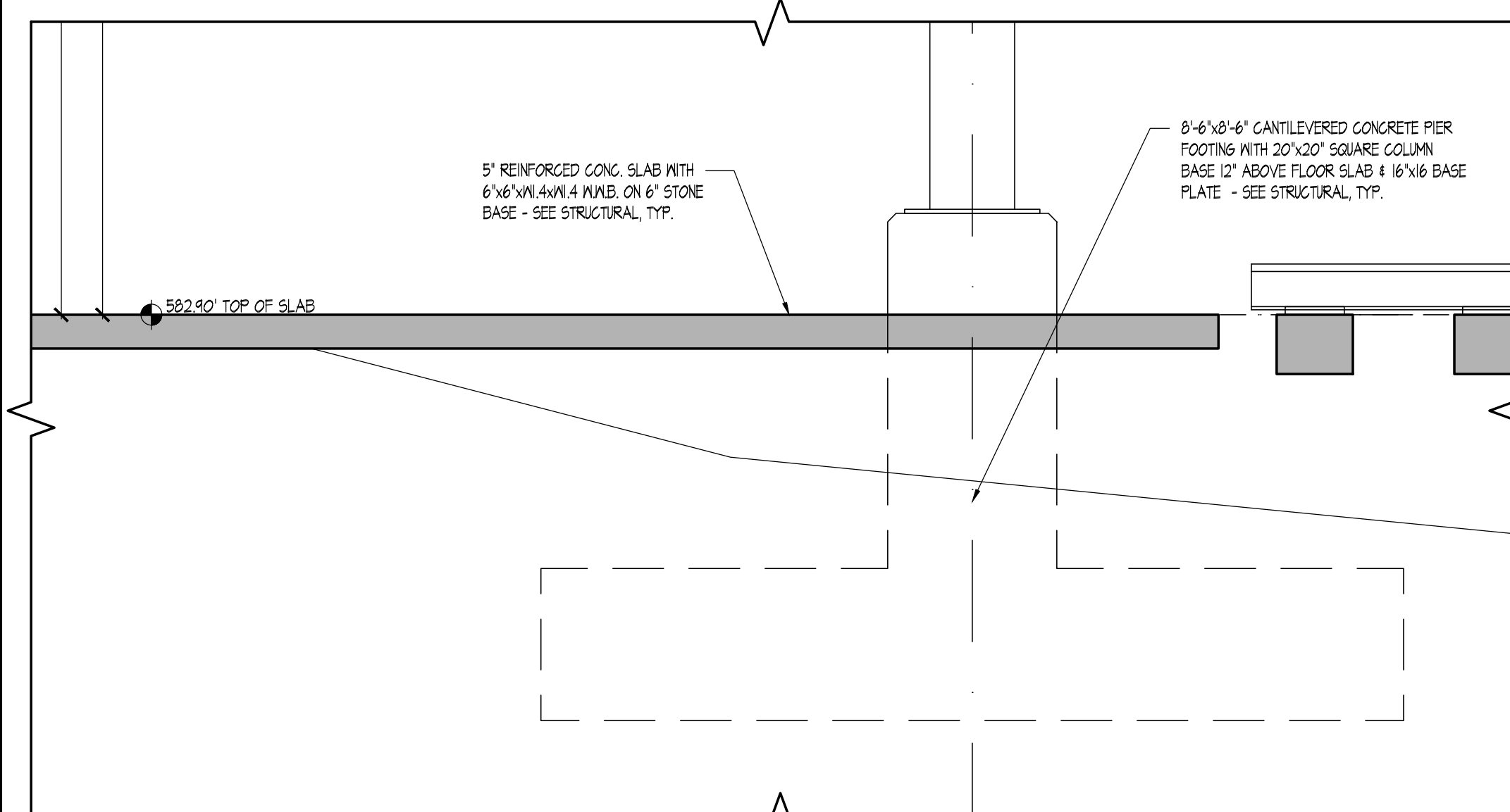
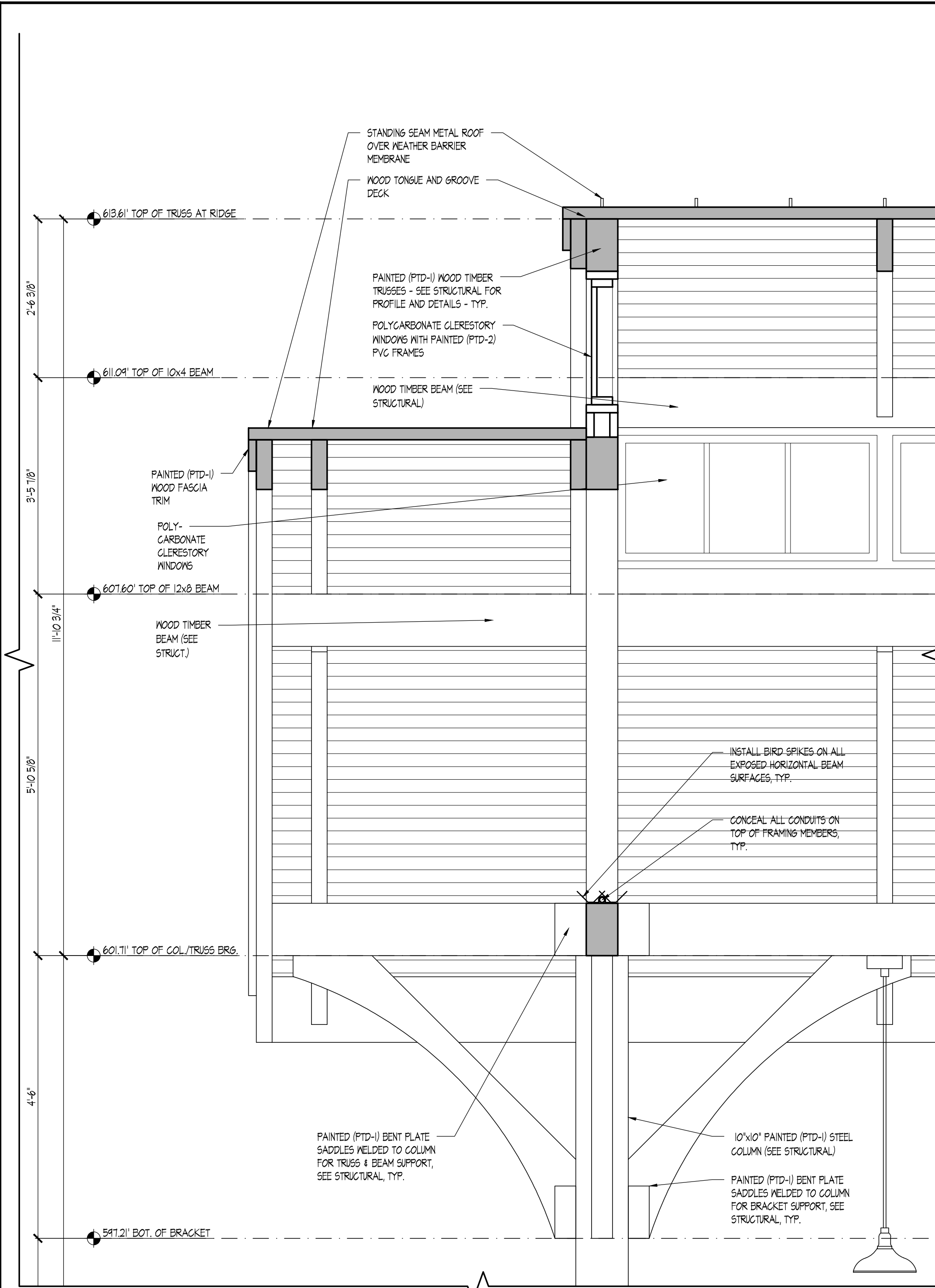
NOTES:
 1. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING.
 2. SEE A6.1 FOR LOCATION AND EXTENT OF PAINTED AND CLEAR FINISHES.
 3. STEEL AND WOOD COMPONENTS SHALL BE PAINTED WHERE OBJECTS ARE SHOWN SHADED - PTD-1 IS USED FOR STRUCTURE AND PTD-2 IS USED FOR TRIM (COLORS TO BE SELECTED BY ARCHITECT). UNDERSIDE OF ALL OTHER STRUCTURE SHALL RECEIVE CLEAR COAT FINISH.

KEY NOTES

- SELECTIVE WORK NOTES:**
- 1 REINFORCED 5" CONCRETE SLAB WITH 6"x6"x1/4"x1/4" NUM. ON 6" STONE BASE - PROVIDE BROOM FINISH
 - 2 CONCRETE CROSSWALK AT 1:20 SLOPE MAX. - PROVIDE RECESS FOR WHEEL FLANGES
 - 3 PAINTED STEEL ACCESS STAIR AND PLATFORM WITH GUARDRAIL - +589.40 DECK ELEVATION IS INTENDED TO MATCH ELEVATION OF CAB GANGWAY - CONTRACTOR TO VERIFY IN FIELD PRIOR TO FABRICATION OF STAIRS
 - 4 ELECTRICAL PANEL & LIGHTING CONTROLS IN LOCKABLE CABINET (SEE ELECTRICAL), TYP.
 - 5 10"x10" PAINTED (PTD-1) STEEL TUBE COLUMN WITH FOUR PAINTED CUSTOM ARCHITECTURAL WOOD BRACKETS (SEE DETAIL 5 / A12) PER COLUMN - TYP. OF 12
 - 6 WOOD TIMBER ROOF TRUSSES AND BEAMS (PTD-1)
 - 7 STANDING SEAM METAL ROOF OVER WEATHER BARRIER MEMBRANE AND WOOD TONGUE AND GROOVE DECK ON WOOD TIMBER TRUSSES & WOOD RAFTERS
 - 8 PAINTED (PTD-2) WOOD FASCIA TRIM
 - 9 PREFINISHED METAL GUTTERS AND DOWNSPOUTS TO PVC BOOT - CONNECT TO STORM DRAIN - SEE CIVIL FOR CONTINUATION
 - 10 POLYCARBONATE CLERESTORY WINDOWS WITH COMPOSITE FRAME
 - 11 PAINTED WOOD TRIM (PTD-2)
 - 12 PAINTED (PTD-1) BENT PLATE SADDLES WELDED TO COLUMN FOR TRUSS & BEAM SUPPORT
 - 13 PENDANT LIGHT (SEE ELECTRICAL), TYP.
 - 14 PAINTED (PTD-2) METAL POSTS, GUARDRAIL (3'-6" HT. A.F.F.), HANDRAIL (2'-10" HT. A.F.F.), PICKETS, AND BOTTOM RAILS (SEE DETAIL 3 / A41), TYP.
 - 15 PAINTED (PTD-2) METAL POSTS & GUARDRAIL FOR BARRIER @ VERTICAL CLEARANCE PER 2010 ADA 301.4, TYP.
 - 16 30" DIA. CANTILEVERED CONG. PIER FOOTING 1/4" 20"x20" SQUARE COL. BASE 12" ABOVE FLR. SLAB & 16"x16" BASE PLATE, TYP.
 - 17 FIRE EXTINGUISHER CABINET.
 - 18 STRUCTURAL LAMINATED WOOD ARCHED FRAMING MEMBER - EAST END TRUSS ONLY (PTD-1)

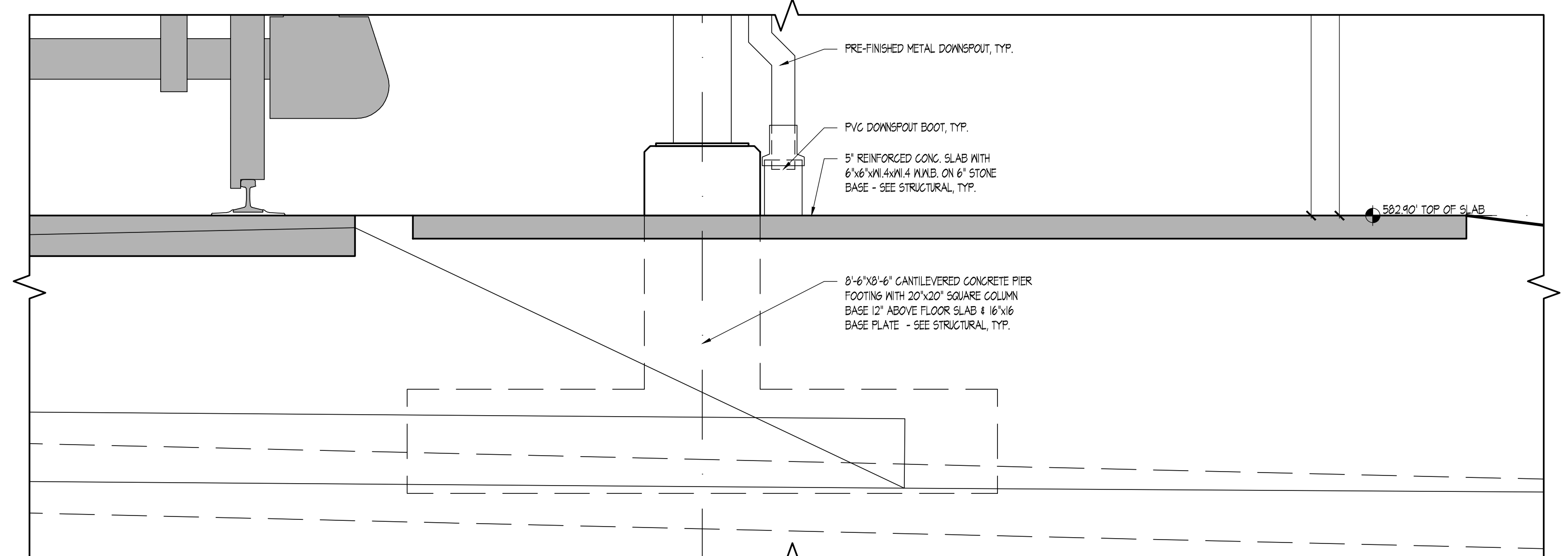
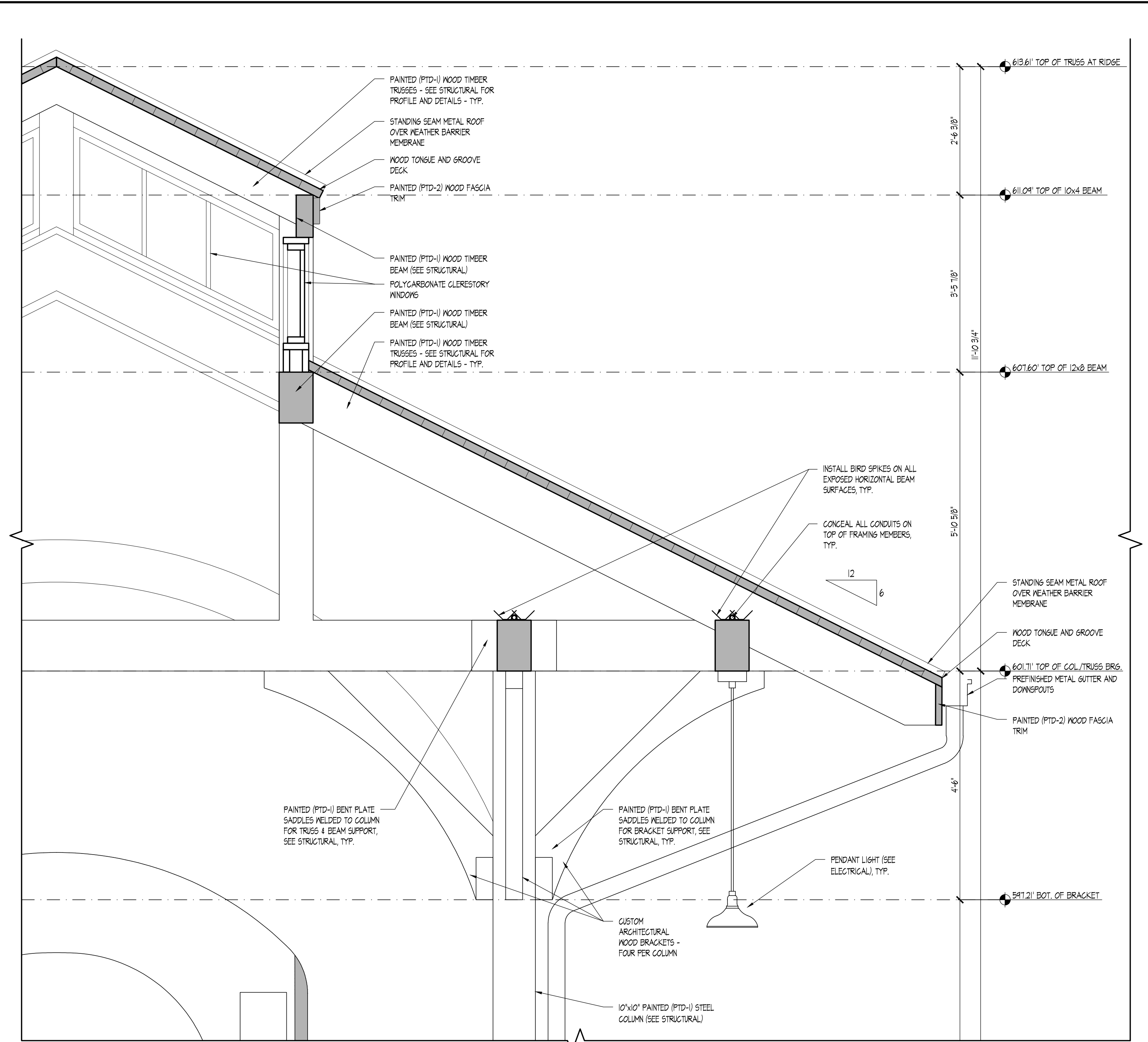


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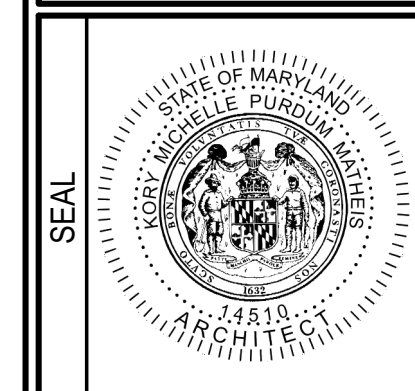


1 SECTION
 A5.1 SCALE: 3/4" = 1'-0"
 SCALE 0 1 2 3 FEET

NOTES:
 1. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING.
 2. SEE A6.1 FOR LOCATION AND EXTENT OF PAINTED AND CLEAR FINISHES.
 3. STEEL AND WOOD COMPONENTS SHALL BE PAINTED WHERE OBJECTS ARE SHOWN SHADED - PTD-1 IS USED FOR STRUCTURE AND PTD-2 IS USED FOR TRIM (COLORS TO BE SELECTED BY ARCHITECT). UNDERSIDE OF ALL OTHER STRUCTURE SHALL RECEIVE CLEAR COAT FINISH.

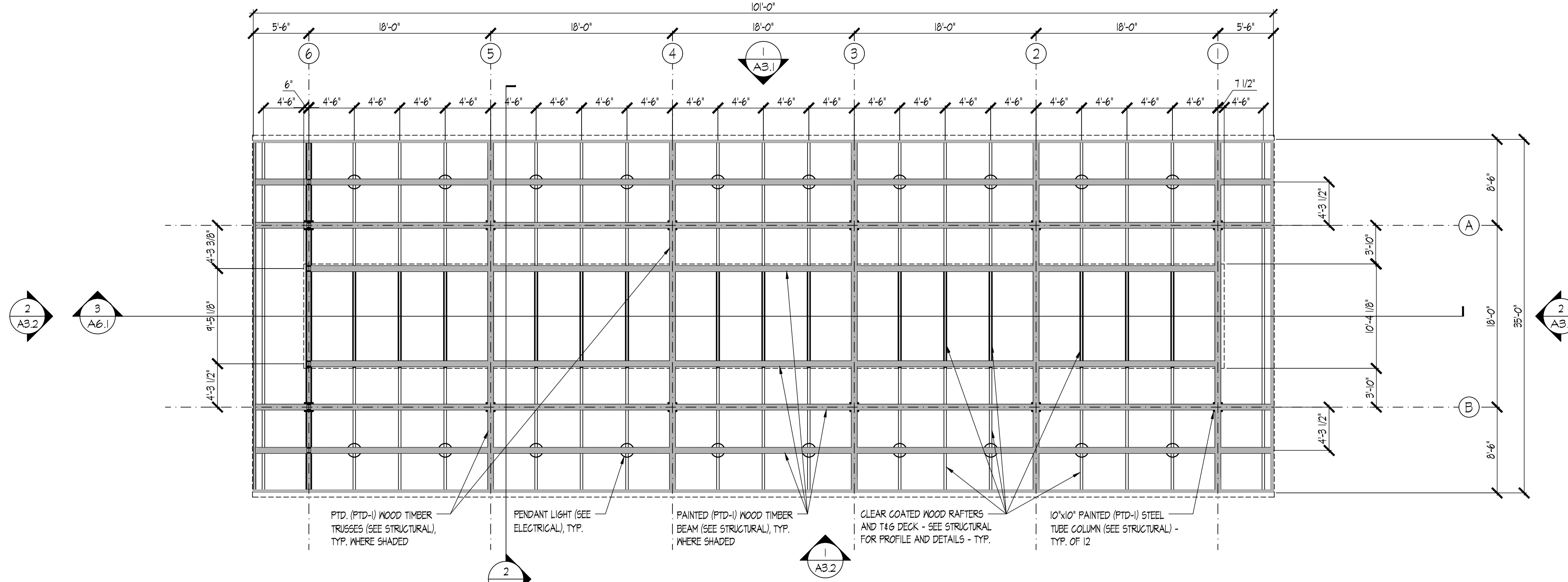


2 SECTION
 A5.1 SCALE: 3/4" = 1'-0"
 SCALE 0 1 2 3 FEET



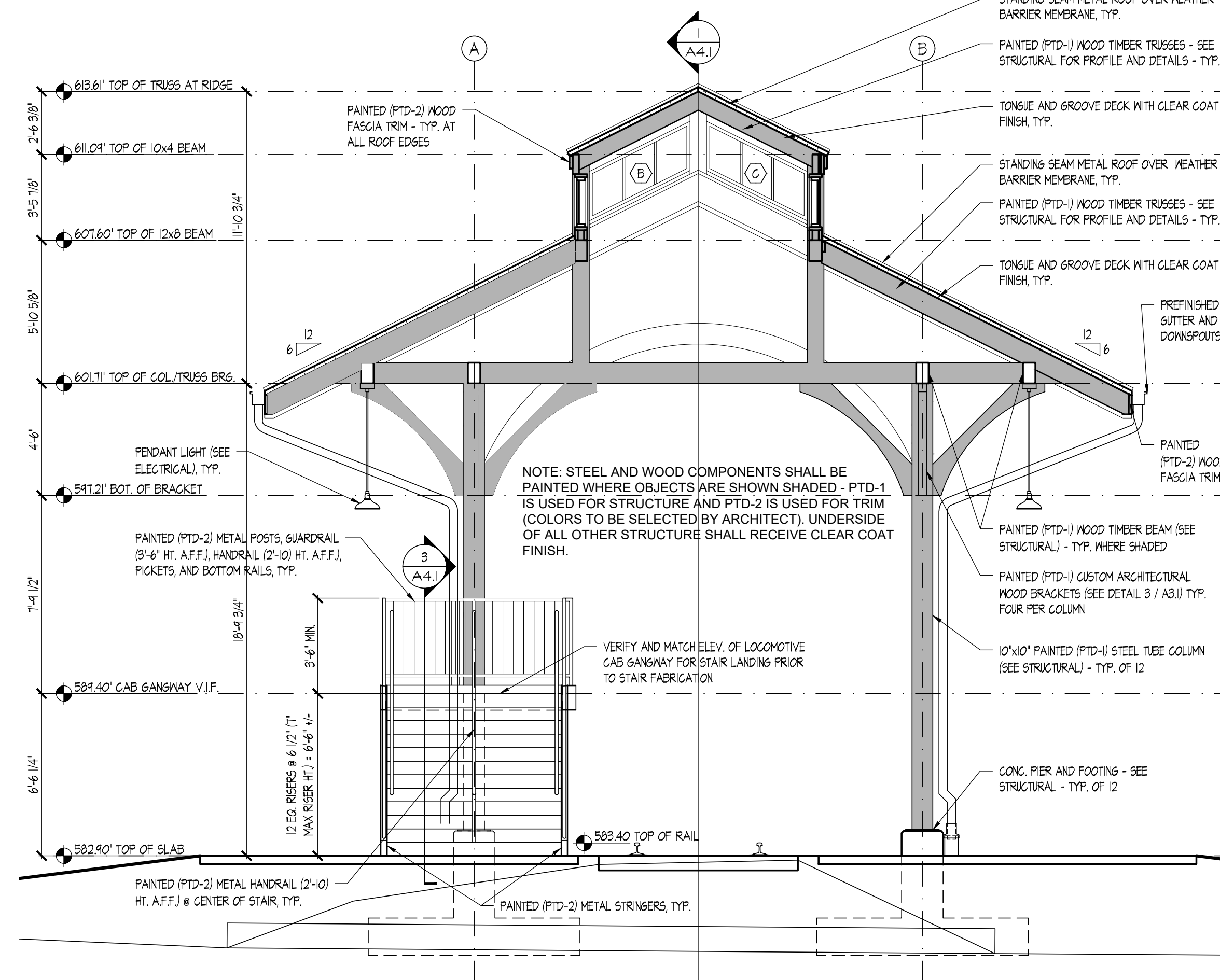
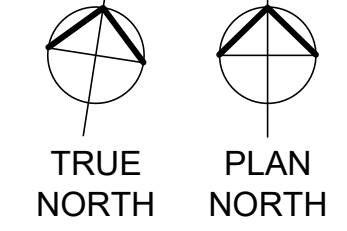
**CITY PARK TRAIN HUB
 LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
 AT HAGERSTOWN RAILROAD MUSEUM
 730 CITY PARK DRIVE,
 HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740**
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ISSUE		
REV	DATE	DESCRIPTION

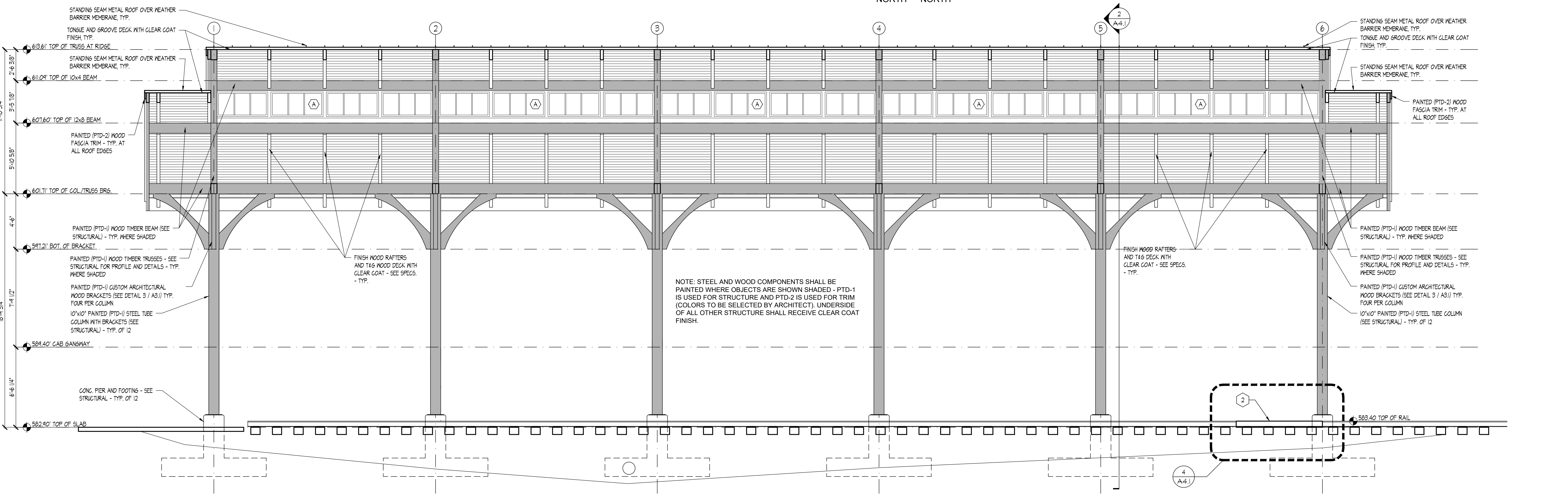
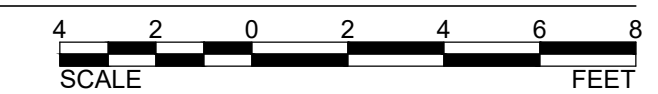


1
A6.1 LOCOMOTIVE PAVILION REFLECTED ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

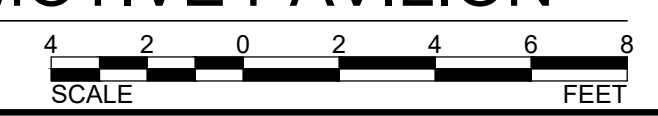
NOTE: ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE AS EXISTING



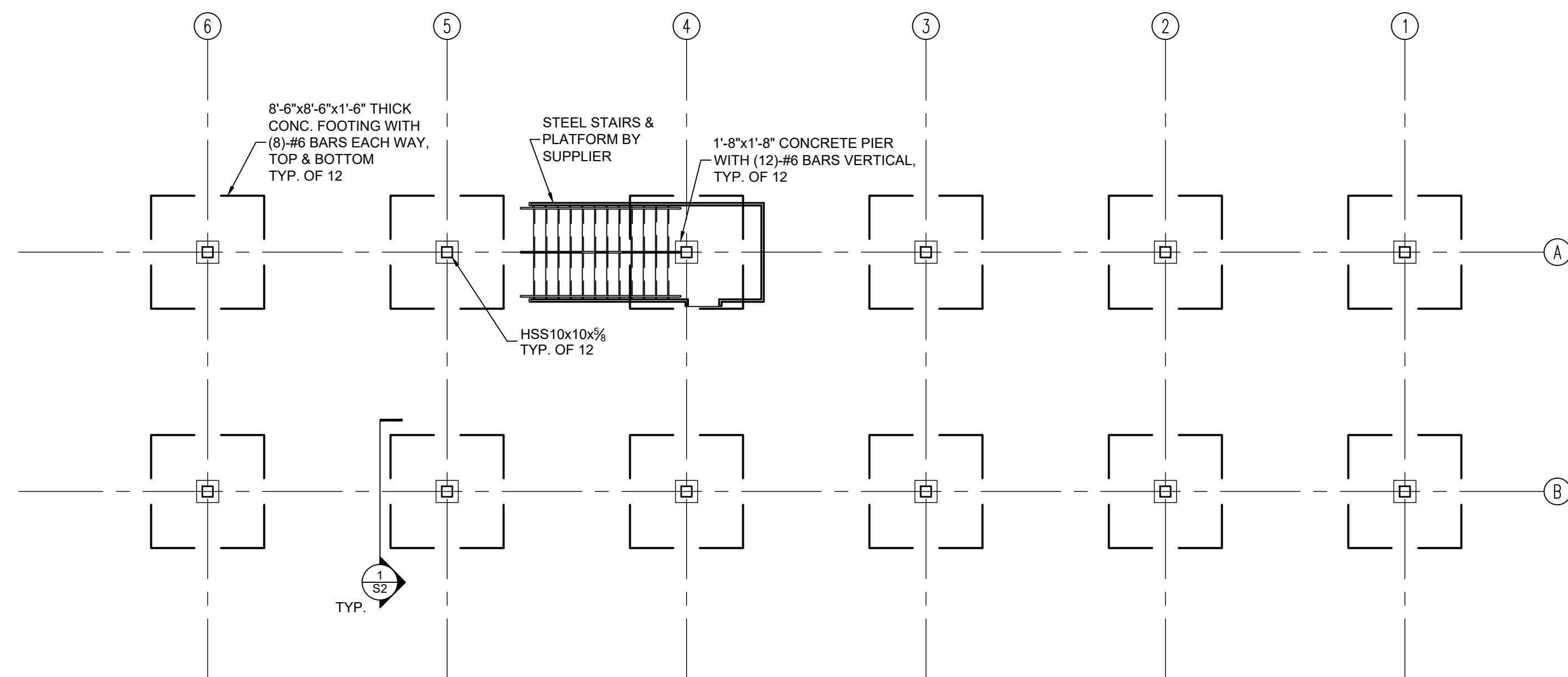
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A6.1 TRANSVERSE SECTION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"



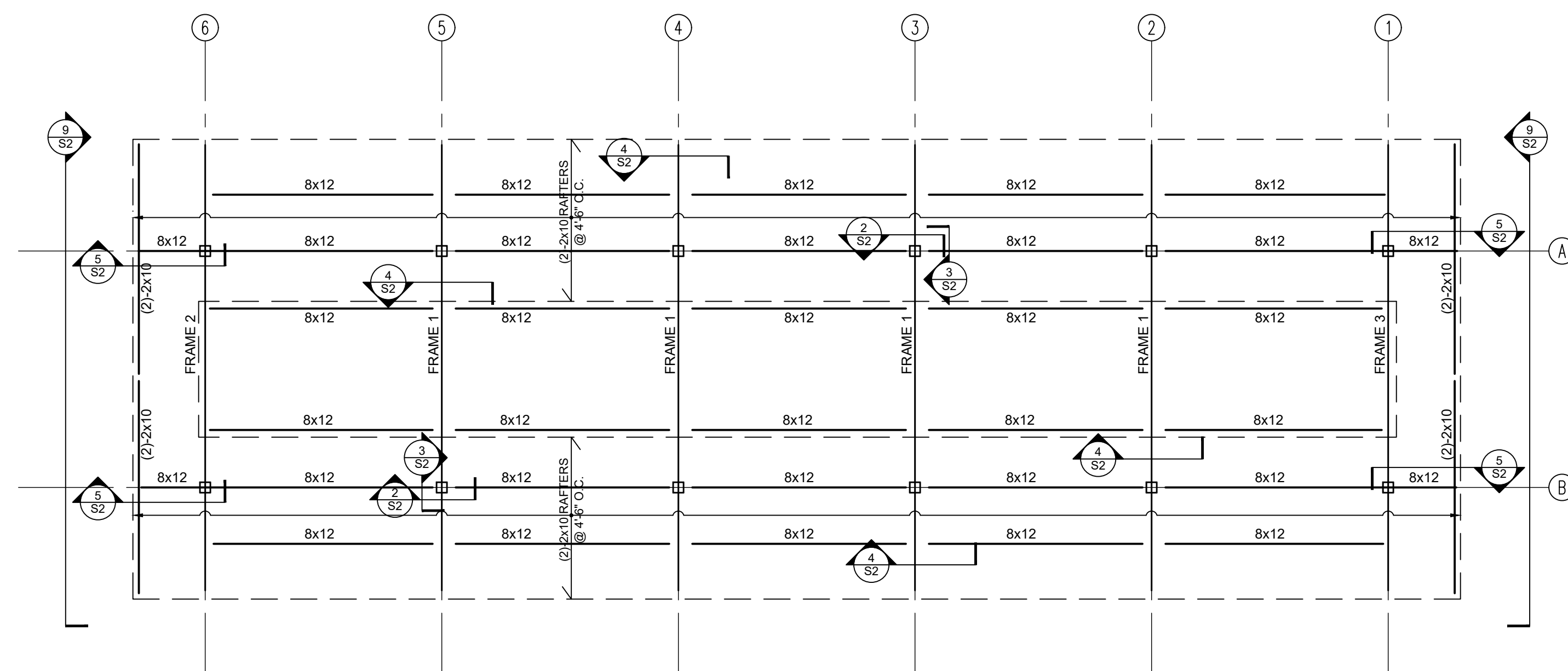
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A6.1 LONGITUDINAL SECTION - LOCOMOTIVE PAVILION
SCALE: 1/4" = 1'-0"



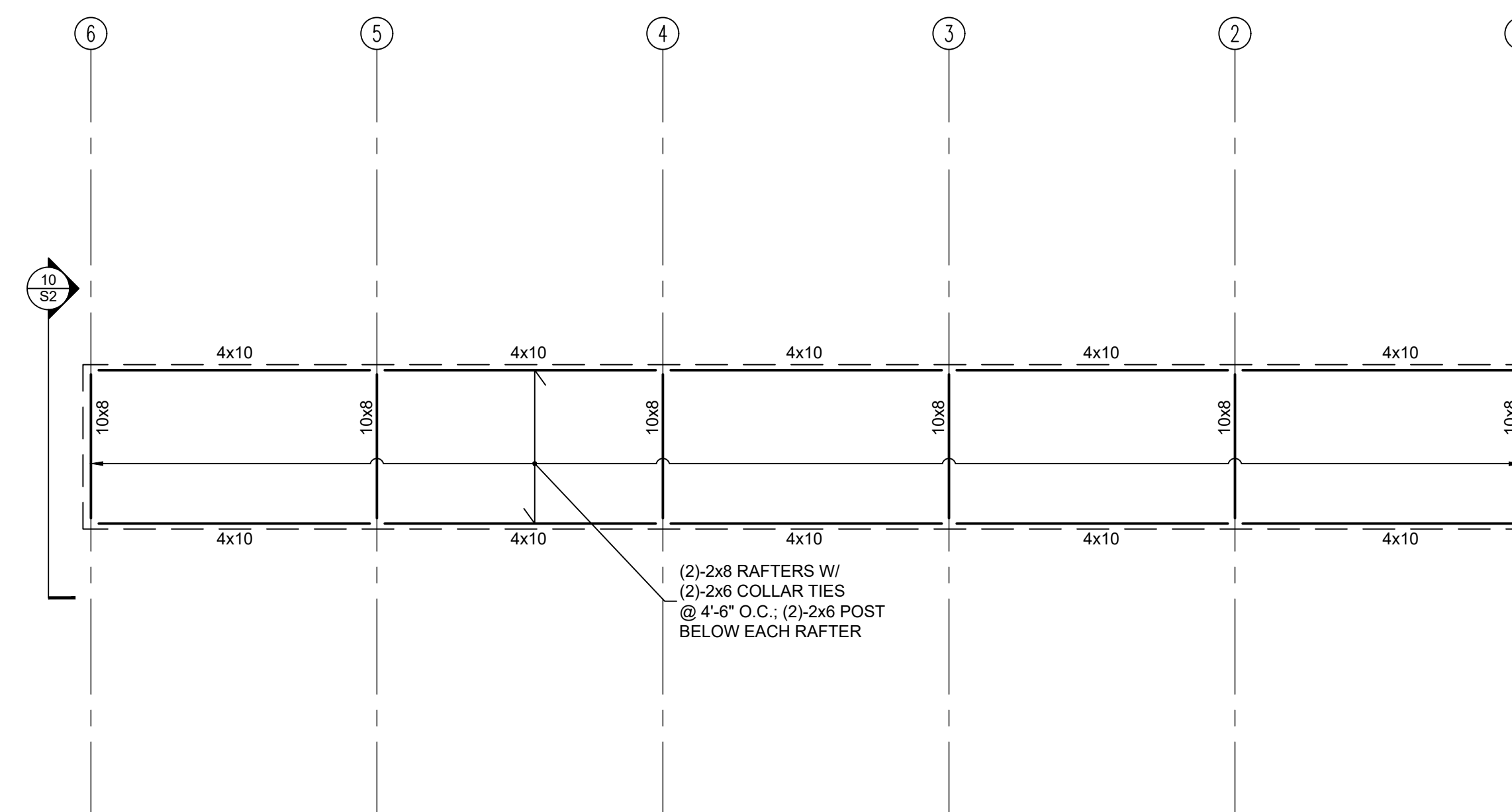
ISSUE		
REV	DATE	DESCRIPTION



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



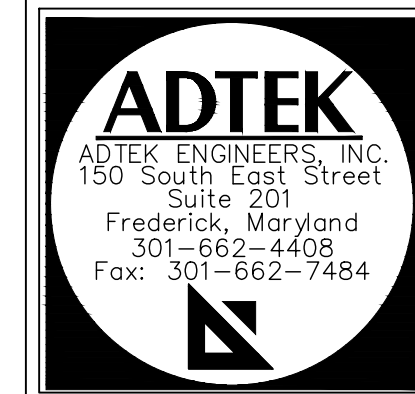
ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"
ROOF DECK: 2x TONGUE & GROOVE DECKING



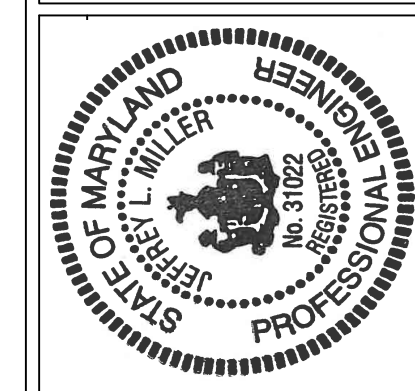
MONITOR ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"
ROOF DECK: 2x TONGUE & GROOVE DECKING



49 SOUTH CARROLL STREET
FREDERICK, MARYLAND 21701
PHONE (301) 662-8532
FAX (301) 662-4192
info@proffittandassociates.com



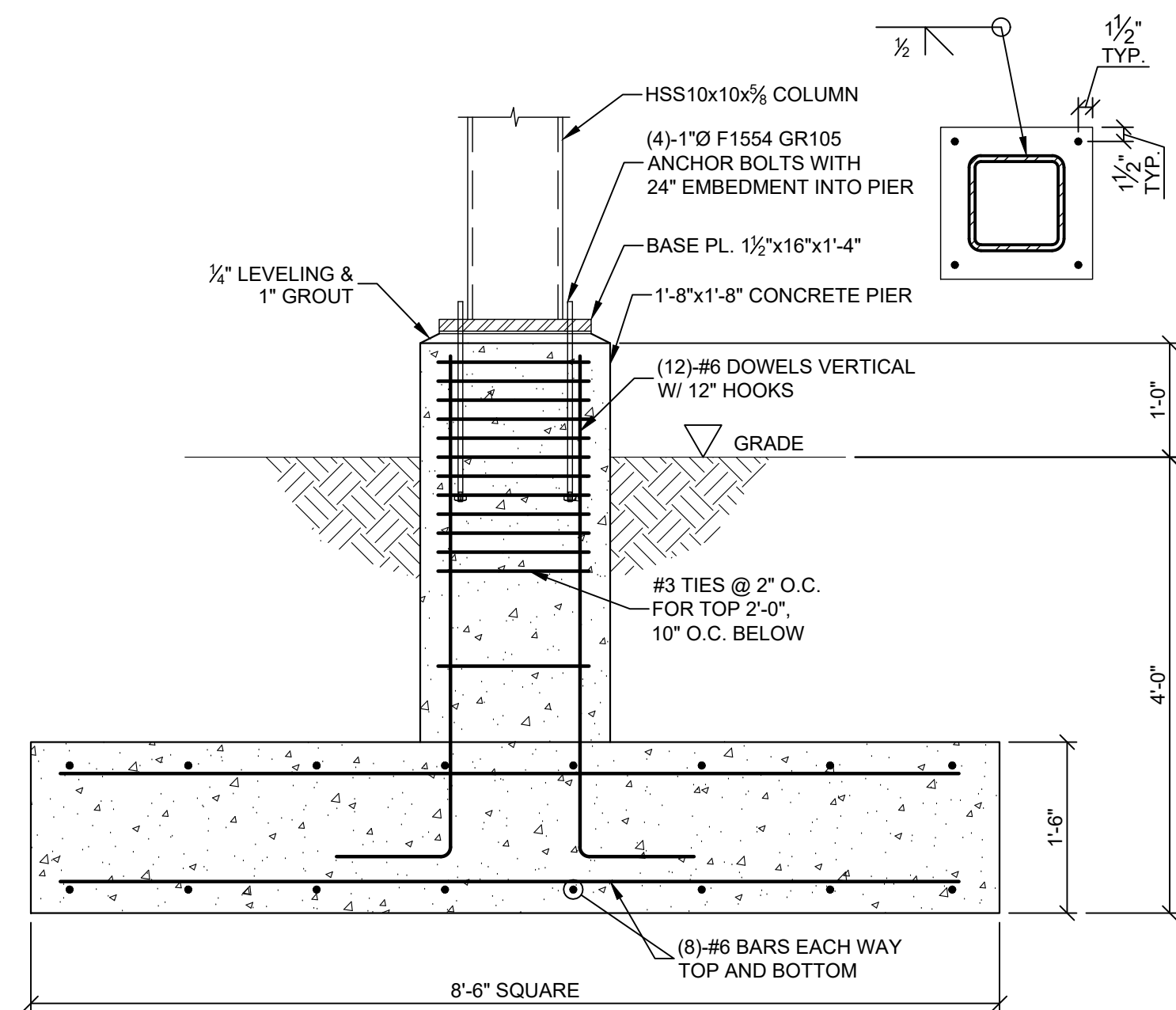
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ENGINEER OF THE STATE OF MARYLAND.
LICENSE No. 31022
EXPIRATION DATE 10/17/24



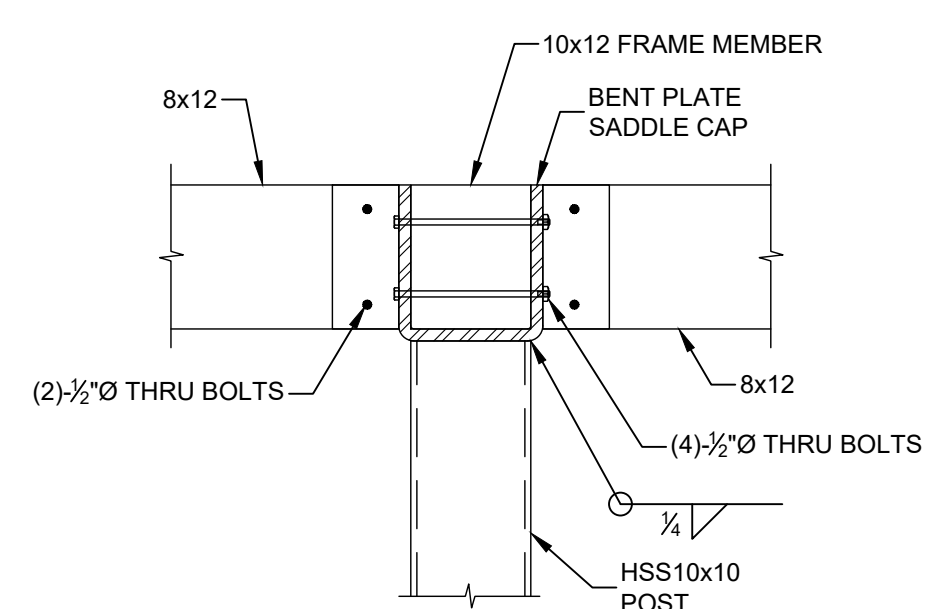
NEW PAVILION AND LOCOMOTIVE REHABILITATION FOR
WESTERN MARYLAND RAILWAY # 202
AT HAGERSTOWN RAILROAD MUSEUM
525 HIGHLAND WAY AT CITY PARK DRIVE
HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740
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ISSUE		
REV	DATE	DESCRIPTION

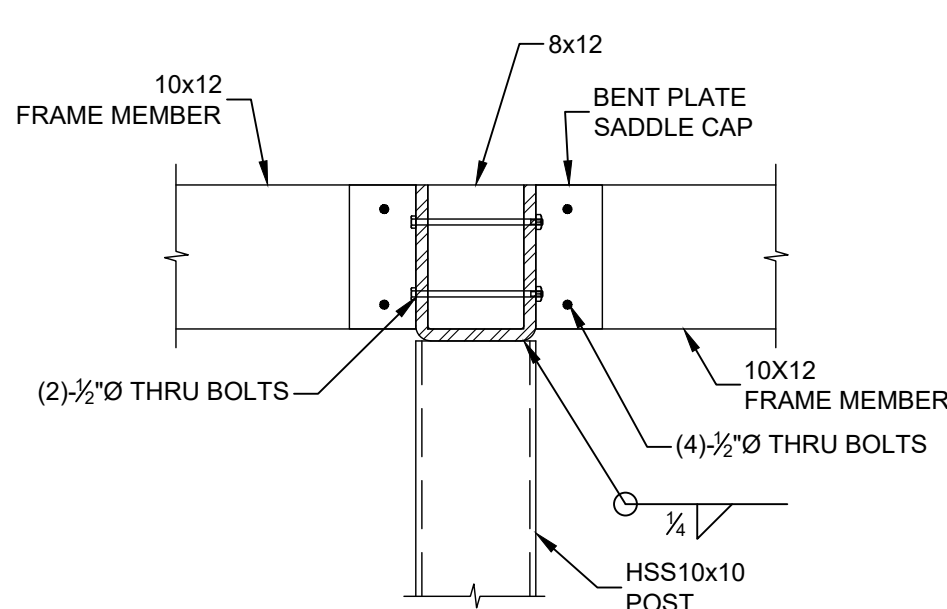
PROJECT NO.: 19-35
DATE: 03 / 07 / 2023
LOCOMOTIVE PAVILION
STRUCTURALS PLAN
SHEET 62-219-016



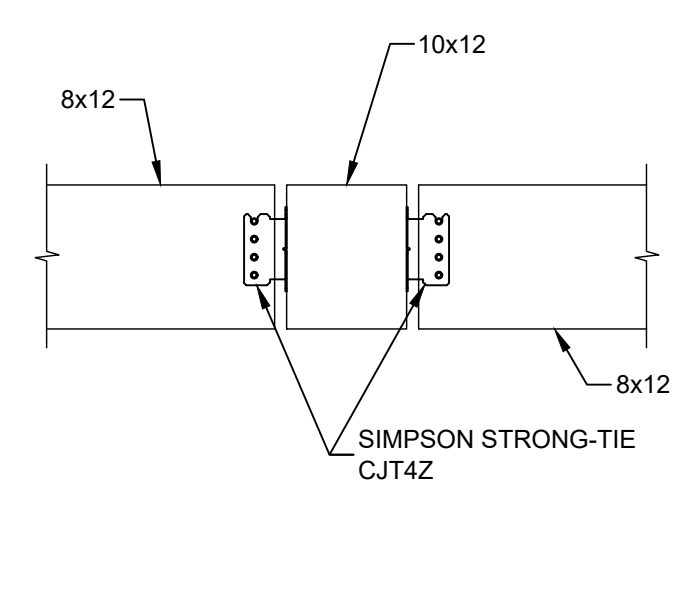
1 FOOTING / PIER / COLUMN BASE DETAIL
SCALE: 1/4"=1'-0"



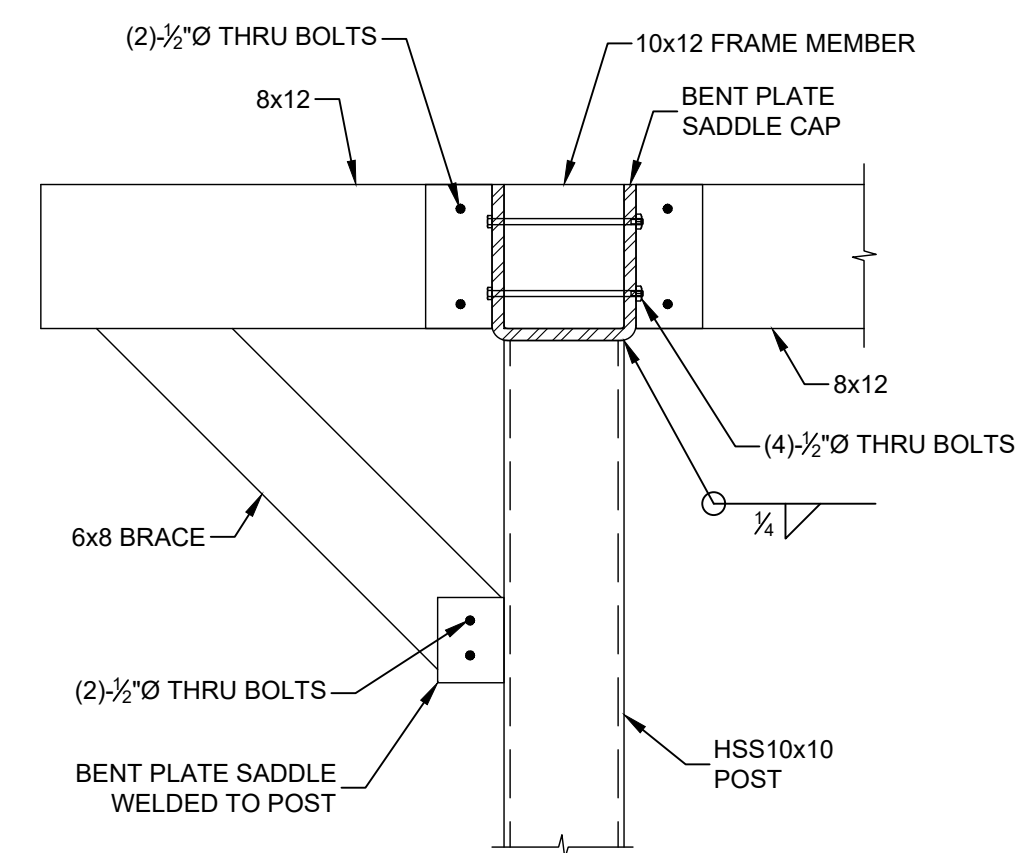
2 TYPICAL POST CAP DETAIL
SCALE: 3/4"=1'-0"



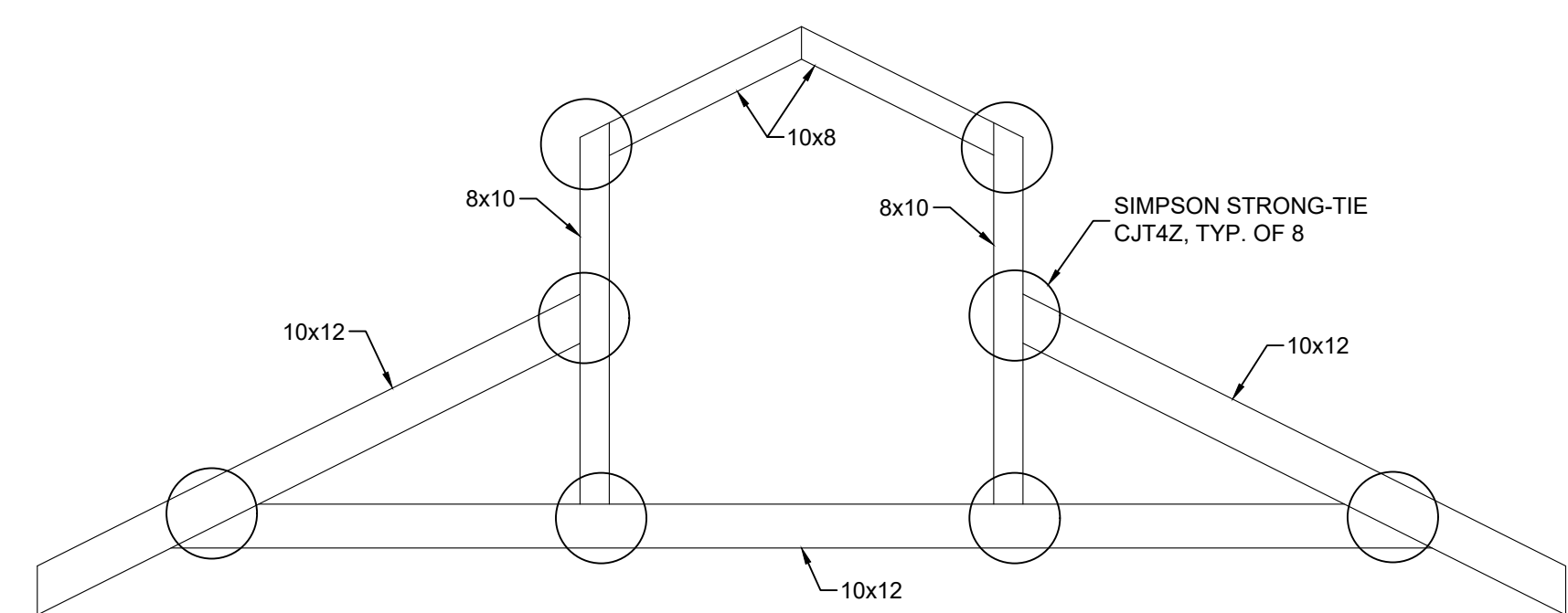
3 TYPICAL POST CAP DETAIL
SCALE: 3/4"=1'-0"



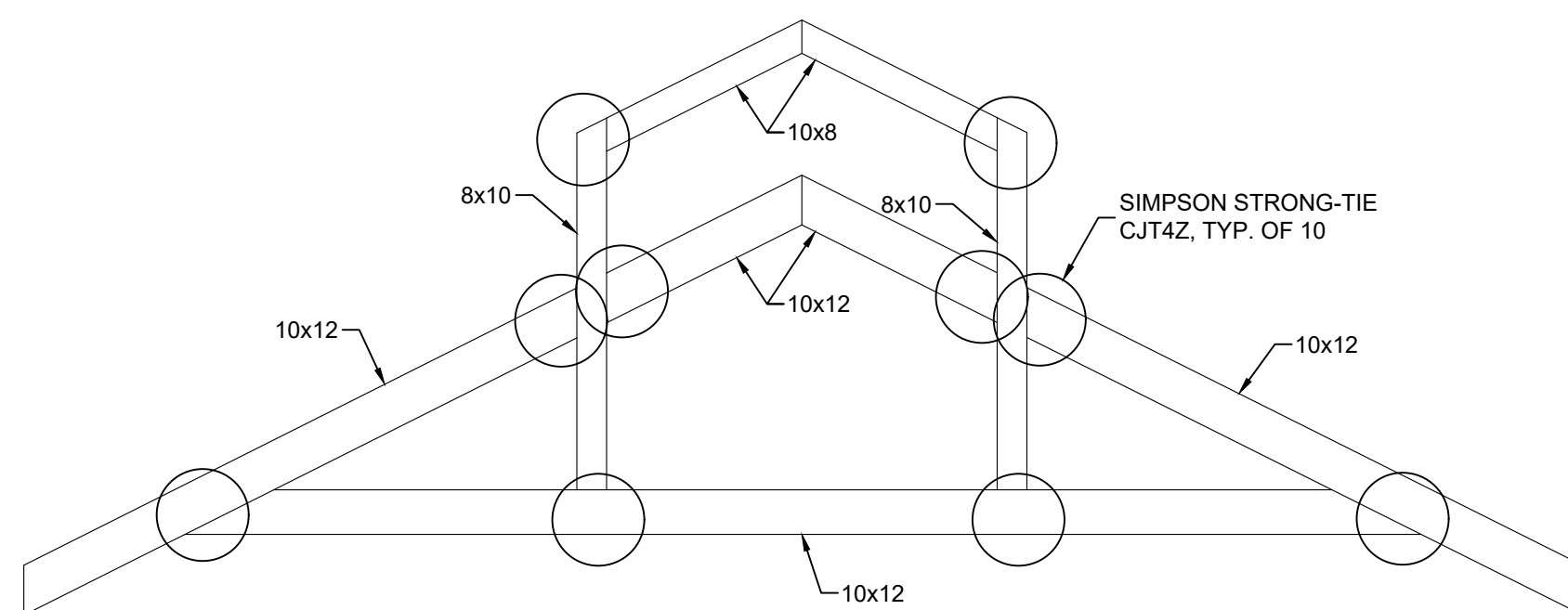
4 TYPICAL BEAM TO BEAM CONNECTION
SCALE: 1/4"=1'-0"



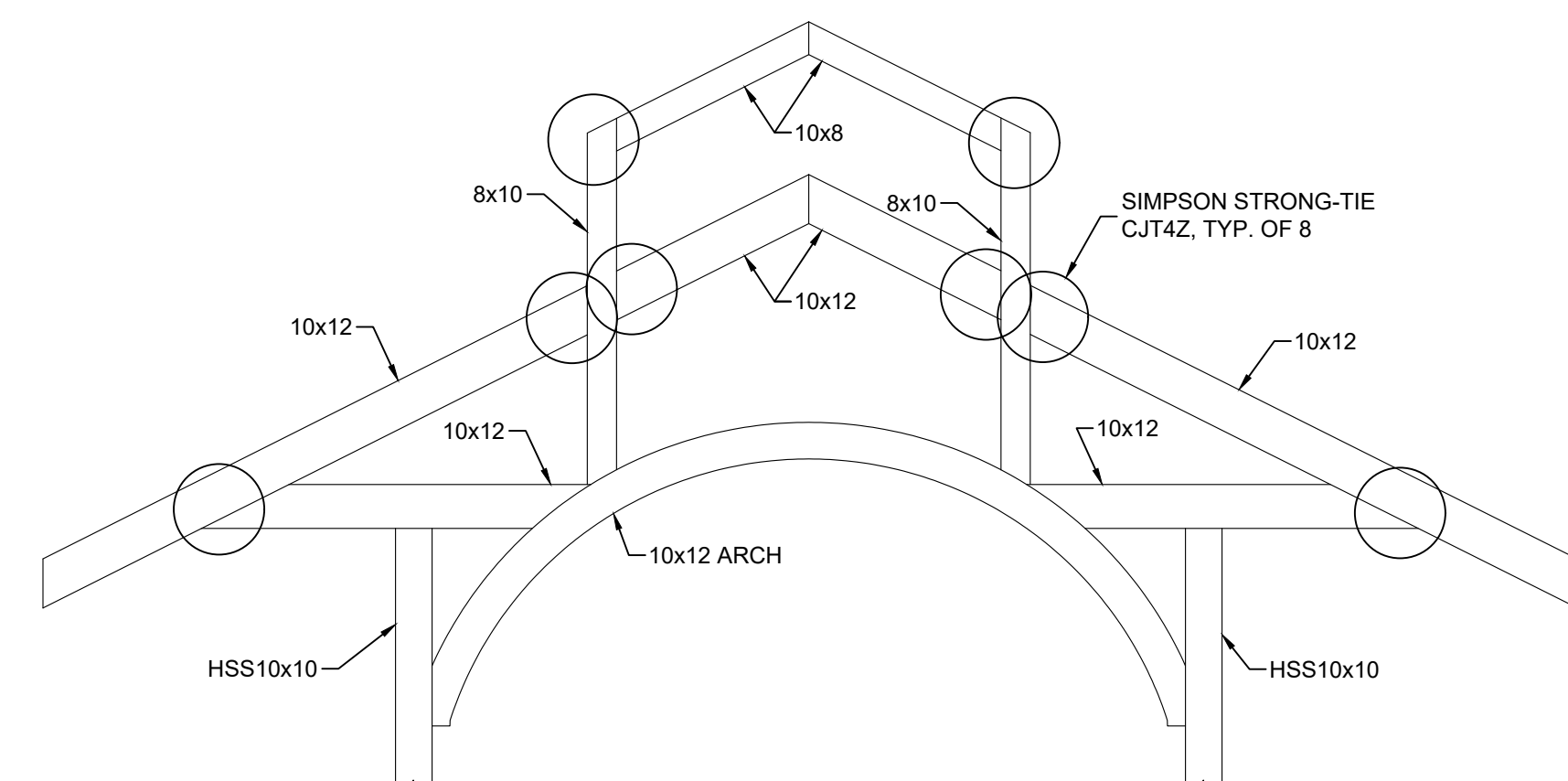
5 BEAM SUPPORT @ ENDS
SCALE: 3/4"=1'-0"



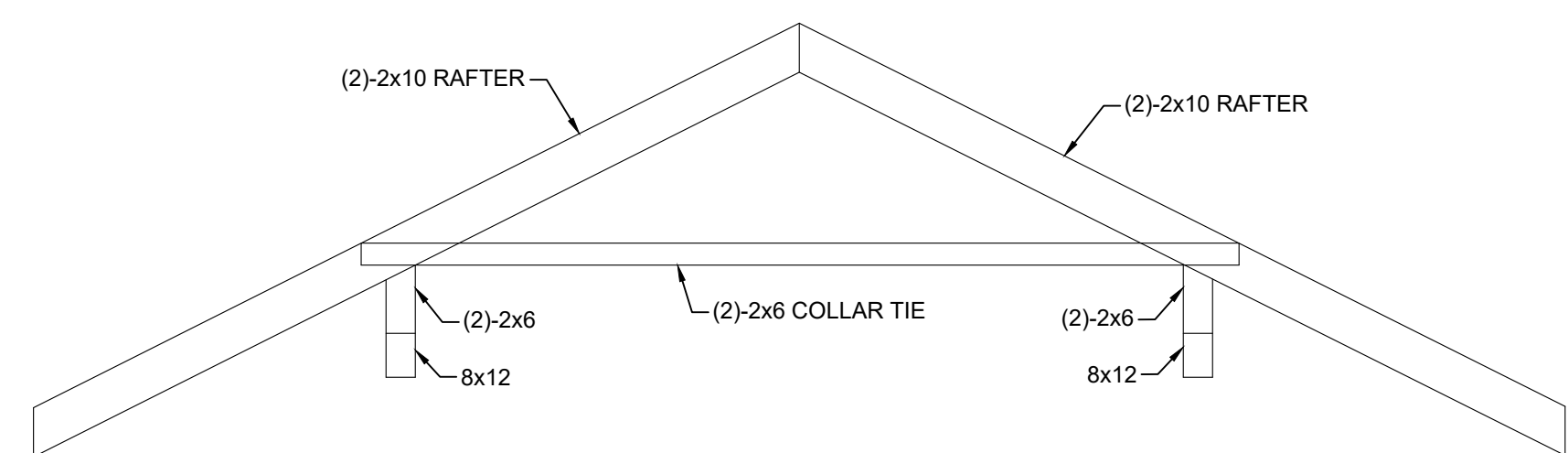
6 FRAME 1
SCALE: 1/2"=1'-0"



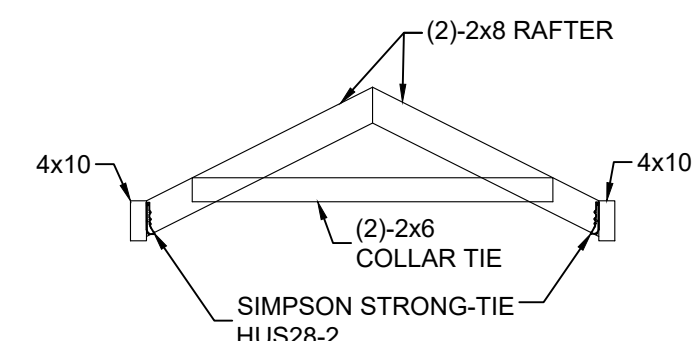
7 FRAME 2
SCALE: 1/2"=1'-0"



8 FRAME 3
SCALE: 1/2"=1'-0"



9 END RAFTER DETAIL
SCALE: 1/2"=1'-0"



10 MONITOR RAFTER DETAIL
SCALE: 1/4"=1'-0"



49 SOUTH CARROLL STREET
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LICENSE No. 31022
EXPIRATION DATE 10/17/24



NEW PAVILION AND LOCOMOTIVE REHABILITATION FOR
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ISSUE		
REV	DATE	DESCRIPTION

PROJECT NO.: 19-35
DATE: 03/07/2023
LOCOMOTIVE PAVILION
STRUCT SECTIONS
SHEET 62-219-017

S2

STRUCTURAL NOTES

BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE AND ASCE 7-16

ANY REFERENCES TO VARIOUS TRADE CODES THROUGHOUT THESE NOTES ARE TO THE YEAR OF THE CODE CITED IN THE ABOVE REFERENCE BUILDING CODE.

DESIGN LIVE LOADS

ROOF STRUCTURAL ELEMENTS SHALL BE DESIGNED FOR THE MORE CRITICAL OF THE FOLLOWING LOAD CASES
CASE 1 30 PSF MINIMUM (NOT REDUCIBLE)
CASE 2 SNOW LOAD BASED ON 30 PSF GROUND SNOW LOAD WITH APPLICABLE DRIFT AND SLIDING LOADS

ROOF SNOW LOAD DESIGN DATA:
FLAT ROOF SNOW LOAD (P_f) - 25 PSF
SNOW EXPOSURE FACTOR (C_e) - 1.0
SNOW LOAD IMPORTANCE FACTOR (I) - 1.0
THERMAL FACTOR (C_t) - 1.2

FLOORS: THE FLOOR AREAS HAVE BEEN DESIGNED FOR THE FOLLOWING MINIMUM LIVE LOADS.

STAIRS/PLATFORM 100 PSF / 300 LB. CONC. LOAD
PUBLIC SPACES 100 PSF

DESIGN DEAD LOADS

ROOF 15 PSF (TOTAL INCLUDING SELF WEIGHT)

LATERAL LOADS

WIND LOAD ANALYSIS
RISK CATEGORY II
ULTIMATE WIND SPEED (V_{ult}) 115 MPH
NOMINAL WIND SPEED (V_{asd}) 89 MPH
WIND EXPOSURE B
INTERNAL PRESSURE COEFFICIENT 0.0

SEISMIC LOAD ANALYSIS

RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR(I) 1.0
MCE SPECTRAL RESPONSE ACCELERATION PARAMETER - SHORT (S_s) 12.0%g
MCE SPECTRAL RESPONSE ACCELERATION PARAMETER - 1 second (S₁) 4.5%g
SITE CLASS C
SOIL SITE COEFFICIENT (F_A / F_V) 1.3 / 1.5
DESIGN EQ SPECTRAL RESPONSE ACCEL. PARAMETER - SHORT (S_{ds}) 0.104
DESIGN EQ SPECTRAL RESPONSE ACCEL. PARAMETER - 1 second (S_{d1}) 0.045
SEISMIC DESIGN CATEGORY A
BASIC SEISMIC FORCE RESISTING SYSTEM G per TABLE 12.2-1 ASC7-16
RESPONSE MODIFICATION COEFFICIENT (R) 1.25
SYSTEM OVERSTRENGTH FACTOR (D_o) 1.25
DEFLECTION AMPLIFICATION FACTOR (C_d) 1.25
SEISMIC RESPONSE COEFFICIENT (C_s) 0.01
BASE SHEAR (F_x) MASS x C_s
ANALYSIS PROCEDURE UTILIZED EQUIVALENT LATERAL FORCE

GENERAL NOTES

NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY DEVIATION FROM THE STRUCTURAL CONTRACT DOCUMENTS FOR APPROVAL.

ALL MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE ASTM SPECIFICATIONS NOTED IN THE STRUCTURAL NOTES AND PROJECT SPECIFICATIONS BASED ON THE FINAL DATE NOTED ON THE CONSTRUCTION DOCUMENTS.

THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL SHORING AND BRACING FOR THE STRUCTURE IF ACTUAL CONSTRUCTION LOADS EXCEED THE DESIGN LOADS.

ALL DIMENSIONS AND NOTES SHALL SUPERSEDE ALL SCALE REFERENCES ON THE DRAWINGS.

ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE BUILDING CODE AND ALL LOCAL ORDINANCES. THE CONTRACTOR SHALL HIRE AN EXPERIENCED, QUALIFIED SPECIAL INSPECTOR TO PERFORM ALL THE REQUIRED INSPECTION WORK. ADTEK ENGINEERS WILL NOT PERFORM THE CONTINUOUS DAILY SPECIAL INSPECTIONS DURING CONSTRUCTION. ADTEK ENGINEERS MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS AND SUCH VISITS ARE NOT TO BE CONSTRUED AS MEETING THE DAILY SPECIAL INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SO STATES IN WRITING.

IT IS THE INTENT OF THESE DRAWINGS FOR ALL DISCIPLINES AND SPECIFICATIONS TO PRODUCE A COMPLETE PROJECT. IN ALL CASES THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED, PRICED, ESTIMATED, AND CONSTRUCTED IN THEIR ENTIRETY. THE DRAWINGS ARE COMPLEMENTARY TO ONE ANOTHER AND THE SPECIFICATIONS. ANYTHING SHOWN OR IMPLIED ON ANY ONE DRAWING MUST BE PROVIDED, INSTALLED AND CONNECTED AS THOUGH IT WAS SHOWN ON ALL DRAWINGS AND INCLUDED IN THE ORIGINAL PRICING. NO REQUEST FOR ADDITIONAL COST OR CHANGE ORDER WILL BE ACCEPTED BY THE OWNER FROM ANY CONTRACTOR, SUPPLIER, OR INSTALLER THAT RESULTS FROM A FAILURE TO THOROUGHLY REVIEW ALL DRAWINGS AND SPECIFICATIONS, COORDINATE WITH OTHER TRADES, OR THOROUGHLY INSPECT THE SITE TO DETERMINE ALL EXISTING CONDITIONS.

IF AN ASSUMED OR ACTUAL CONFLICT IS DISCOVERED IN THE CONTRACT DOCUMENTS, THE MORE EXPENSIVE OR HIGHER QUALITY OPTION (AS DETERMINED BY THE ARCHITECT/ENGINEER) SHALL BE ASSUMED TO APPLY UNLESS DIRECTED OTHERWISE BY THE ARCHITECT/ENGINEER.

THE CONTRACTOR IS REQUIRED TO VISIT THE SITE, FAMILIARIZE THEMSELVES WITH THE LOCAL CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND AS ARE NECESSARY FOR CONSTRUCTION, AND CORRELATE THEIR OBSERVATIONS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS ASSUMED THAT THE CONTRACTOR HAS OBTAINED, BEFORE AWARD OF THE CONTRACT, CLARIFICATION OF ALL QUESTIONS AS TO THE INTENT OF THE CONTRACT DOCUMENTS AND OF ASSUMED OR ACTUAL CONFLICT BETWEEN TWO OR MORE ITEMS IN CONTRACT DOCUMENTS. SHOULD THE CONTRACTOR FAIL TO OBTAIN SUCH CLARIFICATION, THE ARCHITECT/ENGINEER SHALL DIRECT WORK TO PROCEED BY THE METHOD INDICATED, SPECIFIED OR REQUIRED BY CONTRACT DOCUMENTS WHICH WILL PRODUCE THE BEST RESULTS, AS JUDGED BY THE ARCHITECT/ENGINEER. SUCH DIRECTION BY THE ARCHITECT/ENGINEER SHALL NOT ENTITILE THE CONTRACTOR TO ANY CLAIM FOR EXTRA COST.

CONTRACTOR RESPONSIBILITIES

THE FOLLOWING LIST IS NOT INTENDED TO BE ALL INCLUSIVE, BUT MERELY TO PLACE EMPHASIS ON PARTICULAR ITEMS OF JOB SCHEDULING AND SAFETY.

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW, ALLOWING A MINIMUM OF TWO WEEKS FOR REVIEW BY THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER.
2. IF ACTUAL FIELD CONDITIONS VARY FROM WHAT IS SHOWN OR ASSUMED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR IS REQUIRED TO PROMPTLY NOTIFY THE ARCHITECT/ENGINEER AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK AFFECTED BY THE ACTUAL FIELD CONDITION.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT SPECIAL INSPECTOR IN ADVANCE OF WORK REQUIRING INSPECTIONS ON OR ON-SITE PERSONNEL. COORDINATE ADVANCE NOTIFICATION REQUIREMENTS WITH THE SPECIAL INSPECTOR.
4. IF THE CONTRACTOR ANTICIPATES A PROBLEM THAT WILL REQUIRE ASSISTANCE FROM THE PROJECT STRUCTURAL ENGINEER, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROVIDE THE ENGINEER WITH MINIMUM 24 HOURS NOTICE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION IS ACCORDING TO THE SIGNED AND SEALED CONSTRUCTION DOCUMENTS AND THE REVIEWED SHOP DRAWINGS.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. IT IS NOT INTENDED THAT THE STRUCTURAL DRAWINGS BE USED INDEPENDENTLY OF THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR METHODS TO ENSURE CONSTRUCTION SAFETY AT THE SITE THROUGHOUT THE COURSE OF THE PROJECT CONSTRUCTION. SEE O.S.H.A. & M.O.S.H. REGULATIONS FOR CONSTRUCTION.
8. UPON STRUCTURAL COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE SPECIAL INSPECTOR SUBMIT A LETTER OF CERTIFICATION INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CONCRETE TEST REPORTS AND CODE REQUIREMENTS. THIS LETTER MUST BE REVIEWED BY THE ARCHITECT AND ENGINEER OF RECORD BEFORE SUBMITTAL.
9. THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION TO DESIGN AND DETAIL THE SUBMITTAL ITEMS NOTED IN THE DEFERRED SUBMITTALS BELOW.

SUBMITTALS NOTES

1. SUBMIT THE SHOP DRAWINGS NOTED BELOW TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
2. DEFERRED SUBMITTALS (DRAWINGS AND CALCULATIONS) NOTED BELOW SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT JURISDICTION. THE ENGINEER MUST HAVE A MINIMUM OF THREE YEARS EXPERIENCE IN THE DESIGN OF THE TYPE OF STRUCTURAL COMPONENT REQUIRED FOR THE SUBMITTAL. THE ENGINEER SHALL PERFORM PERIODIC FIELD OBSERVATIONS AND ISSUE A FINAL CERTIFICATION FOR THE FINAL CONSTRUCTION OF THE STRUCTURE INCLUDED IN THEIR SUBMITTAL.
3. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONSTRUCTION DOCUMENTS FOR USE AS SHOP DRAWINGS IS PROHIBITED.
4. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, PROVIDE THE REVIEWED SHOP DRAWINGS OF THE DEFERRED SUBMITTALS FOR THEIR REVIEW.

SUBMITTALS
A. CONCRETE MIX DESIGN BY EITHER TRIAL BATCH OR FIELD EXPERIENCE METHODS. (EACH SUBMITTED MIX MUST IDENTIFY ITS INTENDED USE)
B. CONCRETE REINFORCING
C. STRUCTURAL STEEL

DEFERRED SUBMITTALS
A. STEEL STAIRS AND RAILINGS WITH CALCULATIONS

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS ARE REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. THE TERM SPECIAL INSPECTOR REFERS TO THE SPECIAL INSPECTING ENGINEER OF RECORD HIRED BY THE CONTRACTOR IN COMPLIANCE WITH THE INTERNATIONAL BUILDING CODE. INSPECTIONS OF FOUNDATION SUBGRADES MUST BE CONDUCTED BY A LICENSED GEOTECHNICAL ENGINEER, REFERRED TO HEREIN AS THE GEOTECHNICAL INSPECTOR. SPECIAL INSPECTIONS SHALL BE PERFORMED FOR, BUT NOT LIMITED TO, THE FOLLOWING STRUCTURAL ITEMS:

1. FOUNDATION SUBGRADES AND FILL PLACEMENT
2. FOUNDATION REINFORCING
3. CONCRETE FORMWORK AND REINFORCING
4. CONCRETE MIX AND PLACEMENT
5. STRUCTURAL STEEL ERECTION
6. TIMBER FRAMING
7. POST-INSTALLED ANCHORS

FOUNDATION

ALLOWABLE SOIL BEARING VALUE

2000 POUNDS PER SQUARE FOOT FOR COLUMN AND WALL FOOTINGS.

SUBSURFACE INVESTIGATION

SUBSURFACE INVESTIGATION AND REPORT BY TRIAD ENGINEERING, HAGERSTOWN MD OFFICE
JAMES R. WHEELER AND STEPHEN J. GYURISIN, PE TELEPHONE NO. 301-797-6400
REPORT NO. TRIAD NO. 03-13-0170 GEOTECHNICAL REPORT DATED: AUGUST 11, 2020

ALL FOUNDATION WORK AND SOIL COMPACTION SHALL BE IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THE PROJECT.

ALL SPREAD FOOTINGS SHALL EXTEND MINIMUM 1'-0" INTO UNDISTURBED SOIL, OR SHALL BEAR ON COMPACTED STRUCTURAL FILL. PLACE THE FILL REQUIRED TO BRING THE SUBGRADE TO THE PROPER ELEVATION PRIOR TO INSTALLING THE FOUNDATION.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE **A MINIMUM OF 2'-6" BELOW** THE FINISHED EXTERIOR GRADE UNLESS NOTED OTHERWISE.

THE ELEVATION AT THE TOP OF FOOTINGS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOTES AND SECTIONS. THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS ARE FOR ESTIMATION PURPOSES ONLY. LOWER THE FOOTING ELEVATIONS, IF REQUIRED, TO ACHIEVE THE REQUIRED DESIGN BEARING CAPACITY OR FOR COORDINATION WITH UTILITIES.

THE FINAL SOIL BEARING CAPACITY AND FOUNDATION SUBGRADES SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL INSPECTOR PRIOR TO THE CONCRETE FOOTING INSTALLATION. THE CONTRACTOR SHOULD TAKE NOTE OF ANY WATER CONDITIONS AT THE SITE. FOUNDATION SUBGRADES SHALL REMAIN DRY DURING CONSTRUCTION.

STRUCTURAL COMPACTED FILL

STRUCTURAL COMPACTED FILL FOR FOUNDATIONS AND SLAB ON GRADE SHALL BE APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER AND COMPACTED PER THE GEOTECHNICAL REPORT.

EXISTING CONDITIONS

ALL EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BEFORE EXCAVATION, DEMOLITION, OR CONSTRUCTION IS BEGUN. EXISTING UTILITIES SHALL BE LOCATED AND PROTECTED AS REQUIRED BY THE EXCAVATION, DEMOLITION, OR CONSTRUCTION. FIELD MEASUREMENTS SHALL BE MADE OF ADJOINING CONSTRUCTION RELATIVE TO THE PROPER INSTALLATION OF NEW WORK. ALL DISCREPANCIES SHALL BE REPORTED TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH THE WORK IN THE AREA OF THE DISCREPANCY.

FIELD VERIFY ALL RELEVANT EXISTING DIMENSIONS, ELEVATIONS, AND MEMBER SIZES.

STRUCTURAL CONCRETE

REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. DETAILING SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318.

CONCRETE SHALL BE NORMAL WEIGHT, CONCRETE MIX DESIGN TABLE ON THIS SHEET INDICATES DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, WATER/CEMENT RATIOS, AND ENTRAINED AIR CONTENT REQUIRED.

MAXIMUM AGGREGATE SIZE FOR CONCRETE SHALL BE IN ACCORDANCE WITH THE MAXIMUM AGGREGATE SIZES IN ACI 318 AND AS FOLLOWS:

FOOTINGS	1-1/2"
CONCRETE PIERS	3/4"

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED.

CONCRETE SLUMP: 3"+/- 1"
8" AFTER ADDITION OF HRWR AT THE SITE

THE USE OF ADDITIVES SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER. THE USE OF ADDITIVES CONTAINING CALCIUM CHLORIDE SHALL NOT BE PERMITTED.

PROVIDE A HIGH RANGE WATER REDUCER (HRWR OR SUPERPLASTICIZER) FOR PUMPED CONCRETE AND AS REQUIRED FOR WORKABILITY.

ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED AS REQUIRED WITH CLASS B TENSION SPLICES PER ACI 315.

ALL TENSION SPLICES IN THE REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL HAVE A MINIMUM LAP DISTANCE AS SHOWN IN THE TENSION LAP SPlice CHART IN THE GENERAL NOTES.

PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS (UNLESS NOTED OTHERWISE):

FOOTINGS: 3"	PIERS: 1-1/2" TO THE TIES
--------------	---------------------------

ALL CONCRETE WORK, REINFORCING PLACEMENT FORMWORK AND SHORING SHALL BE INSPECTED UNDER THE SUPERVISION OF THE SPECIAL INSPECTOR. CONCRETE QUALITY CONTROL, INSPECTION AND TESTING SHALL BE IN STRICT ACCORDANCE WITH ACI 301 AND THE LOCAL BUILDING CODE REQUIREMENTS.

CONSTRUCTION PRACTICES:

FORMWORK DESIGN, SHORING, AND BRACING SHALL BE ACCORDING TO ACI 301.
FORMWORK TOLERANCES SHALL BE PER ACI 117.

WET STICKING OF DOWELS INTO THE FOOTINGS WILL NOT BE ACCEPTED. DOWELS SHOULD BE PROPERLY PLACED AND TIED TO LONGITUDINAL FOOTING REINFORCING IN ACCORDANCE WITH CRSI.

THE SPECIAL INSPECTOR SHALL PERFORM A MINIMUM OF ONE CONCRETE TEST FOR EACH 50 CUBIC YARDS OF CONCRETE POURED AT THE PROJECT WITH AT LEAST ONE TEST FOR EACH DAY THAT CONCRETE IS POURED. EACH CONCRETE TEST SHALL INCLUDE A SLUMP TEST AND FIVE LABORATORY CURED TEST CYLINDERS FOR COMPRESSIVE FRENTH TESTS. TEST TWO CYLINDERS AT 7 DAYS AFTER THE CONCRETE POUR AND TWO AT 28 DAYS WITH ONE RESERVE CYLINDER. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN TEST REPORTS TO THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ALL TESTS THAT DO NOT MEET THE PROJECT SPECIFICATIONS WITHIN 24 HOURS.

STRUCTURAL STEEL

ALL STEEL SHALL BE IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).

ALL ANGLES, CHANNELS, BENT PLATES, FLAT STOCK AND OTHER MISC. METAL SHAPES SHALL BE ASTM A36 UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL BE WELDED OR BOLTED.

HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE B.

ANCHOR BOLTS SHALL CONFORM TO **ASTM F1554, GRADE 105**

SHOP AND FIELD FASTENERS SHALL BE ASTM A325 HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS, UNLESS NOTED OTHERWISE.

PROVIDE **ARCHITECTURALLY EXPOSED STEEL (AESS)** WHERE INDICATED ON THE DRAWINGS PER THE AISC SPECIFICATIONS.

HOLES SHALL NOT BE CUT THROUGH COLUMNS UNLESS INDICATED OR APPROVED BY THE STRUCTURAL ENGINEER.

WELDING SHALL BE DONE ONLY BY AWS CERTIFIED WELDERS, WELD IN ACCORDANCE WITH THE AWS "STANDARD CODE" FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. USE E70XX ELECTRODES.

PROVIDE ADEQUATE BRACING AND GUY-WIRING FOR STEEL MEMBERS DURING STEEL ERECTION PRIOR TO ROOF CONSTRUCTION. THE STEEL FRAME SHALL BE PLUMB WITHIN THE TOLERANCES IN THE AISC AND PROJECT SPECIFICATIONS. STEEL COLUMNS HAVE BEEN NOT BEEN DESIGNED AS SELF SUPPORTING, AND MUST BE ADEQUATELY BRACED DURING ERECTION.

THE FABRICATOR IS RESPONSIBLE FOR THE SELECTION, DESIGN AND DETAILING OF ALL CONNECTIONS NOT FULLY DETAILED ON THE CONTRACT DOCUMENTS. TYPICAL CONNECTION DETAILS ARE INDICATED ON THE DRAWINGS FOR DESIGN INTENT ONLY.

C.C. OPTION AT COLUMN BASE PLATES-LEVELLING NUTS MAY BE USED IN LIEU OF LEVELLING PLATES SHOWN. USE 1" GROUT WITH LEVELLING NUTS.

SEE THE "CONTRACTOR RESPONSIBILITIES" AND "SUBMITTAL" NOTES FOR ADDITIONAL STEEL SHOP DRAWING REQUIREMENTS.

WOOD FRAMING

ALL LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE AMERICAN FOREST & PAPER ASSOCIATIONS (AFPA) NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.

ALL WOOD DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FOLLOWING STANDARDS:
AMERICAN WOOD COUNCIL NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION WITH
2018 SUPPLEMENT (AWC NDS-2018)

ALL DIMENSIONAL LUMBER MEMBERS SHALL BE #2 SPRUCE-PINE-FIR OR EQUIVALENT WITH THE FOLLOWING COMBINATIONS OF UNIT STRESSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
EXTREME FIBER STRESS IN BENDING 875 PSI
COMPRESSION PARALLEL TO GRAIN 1,150 PSI
MODULUS OF ELASTICITY 1,400,000 PSI
SHEAR STRESS 135 PSI

ALL HEAVY TIMBER WOOD MEMBERS SHALL BE SELECT STRUCTURAL DOUGLAS FIR-LARCH OR EQUIVALENT WITH THE FOLLOWING COMBINATIONS OF UNIT STRESSES, UNLESS NOTED OTHERWISE ON THE DRAWINGS:

EXTREME FIBER STRESS IN BENDING 1600 PSI
COMPRESSION PARALLEL TO GRAIN 1,100 PSI
MODULUS OF ELASTICITY 1,600,000 PSI
SHEAR STRESS 170 PSI

WOOD FRAMING MEMBERS SHALL NOT BE CUT OR DRILLED UNLESS SO AUTHORIZED BY THE PROJECT STRUCTURAL ENGINEER.

ALL BEAMS INDICATED ON PLANS, INCLUDING MULTIPLE MEMBER BEAMS ARE TO BE CONTINUOUS BETWEEN SUPPORTS. NO SPLICES ARE PERMITTED WITHIN SPAN. SPLICES ARE PERMITTED AT SUPPORTS ONLY. IN BEAMS WITH CANTILEVER, SPLICES AT SUPPORT ARE NOT PERMITTED.

ALL CONNECTIONS SHALL BE IN ACCORDANCE TO THE AFPA'S "NATIONAL DESIGN SPECIFICATION".

ALL WOOD CONNECTIONS SHALL BE PER FASTENING SCHEDULE OF CHAPTER 23 OF THE CURRENT IBC.

WHERE MULTIPLE MEMBERS ARE INDICATED ON THE DRAWINGS, MECHANICALLY FASTEN OR NAIL THE MEMBERS TO EACH OTHER IN ORDER FOR THE MEMBERS TO SHARE THE SUPERIMPOSED LOADS PER THE FASTENING SCHEDULED IN THE CURRENT IBC.

ALL ROOF FRAMING SHALL BE CONNECTED TO THE SUPPORT PLATES WITH APPROVED HOLD-DOWN CLIPS.

TONGUE AND GROOVE PLANKS

2-INCH TONGUE AND GROOVE PLANKS SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE.

INSTALL WITH CONTROLLED RANDOM LAYOUT AND NOT LESS THAN THREE CONTINUOUS SPANS, EACH PLANK BEARS ON AT LEAST ONE SUPPORT, AND JOINTS ARE SEPARATED BY AT LEAST 24-INCHES; PLANKS ARE CENTER MATCHED AND END MATCHED OR SPLINED [NO GAPS].

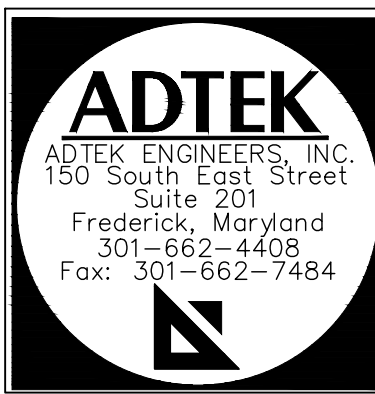
TONGUE AND GROOVE DECKING SHALL COMPLY WITH THE FOLLOWING:

SOUTHERN PINE (GRADE 2 OR BETTER)
FLEXURAL (BENDING) STRESS F_b = 900 ksi
MODULUS OF ELASTICITY E_m = 1150 ksi

AT 2-INCH PLANKS: AT EACH SUPPORT, TONGUE AND GROOVE DECKING SHALL BE TOENAILED THROUGH THE TONGUE, AND FACE NAILED WITH ONE FASTENER [16D COMMON NAIL OR #10 min. WOOD SCREW].



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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ENGINEER IN THE STATE OF MARYLAND.
LICENSE No. 31022
EXPIRATION DATE 10/17/24



NEW PAVILION AND LOCOMOTIVE REHABILITATION FOR
WESTERN MARYLAND RAILWAY # 202
AT HAGERSTOWN RAILROAD MUSEUM
525 HIGHLAND WAY AT CITY PARK DRIVE
HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740
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ISSUE		
REV	DATE	DESCRIPTION

PROJECT NO.: 19-35
DATE: 03 / 07 / 2023

LOCOMOTIVE PAVILION
STRUCTURAL NOTES
SHEET 62-219-018

S3

LIGHTING

- PENDANT LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE
- WALL MOUNTED LIGHTING FIXTURE ON EMERGENCY CIRCUIT. SUBSCRIPT "NL", WHERE USED, INDICATES NIGHT LIGHT CONNECTED AHEAD OF LIGHTING CONTROLS

POWER

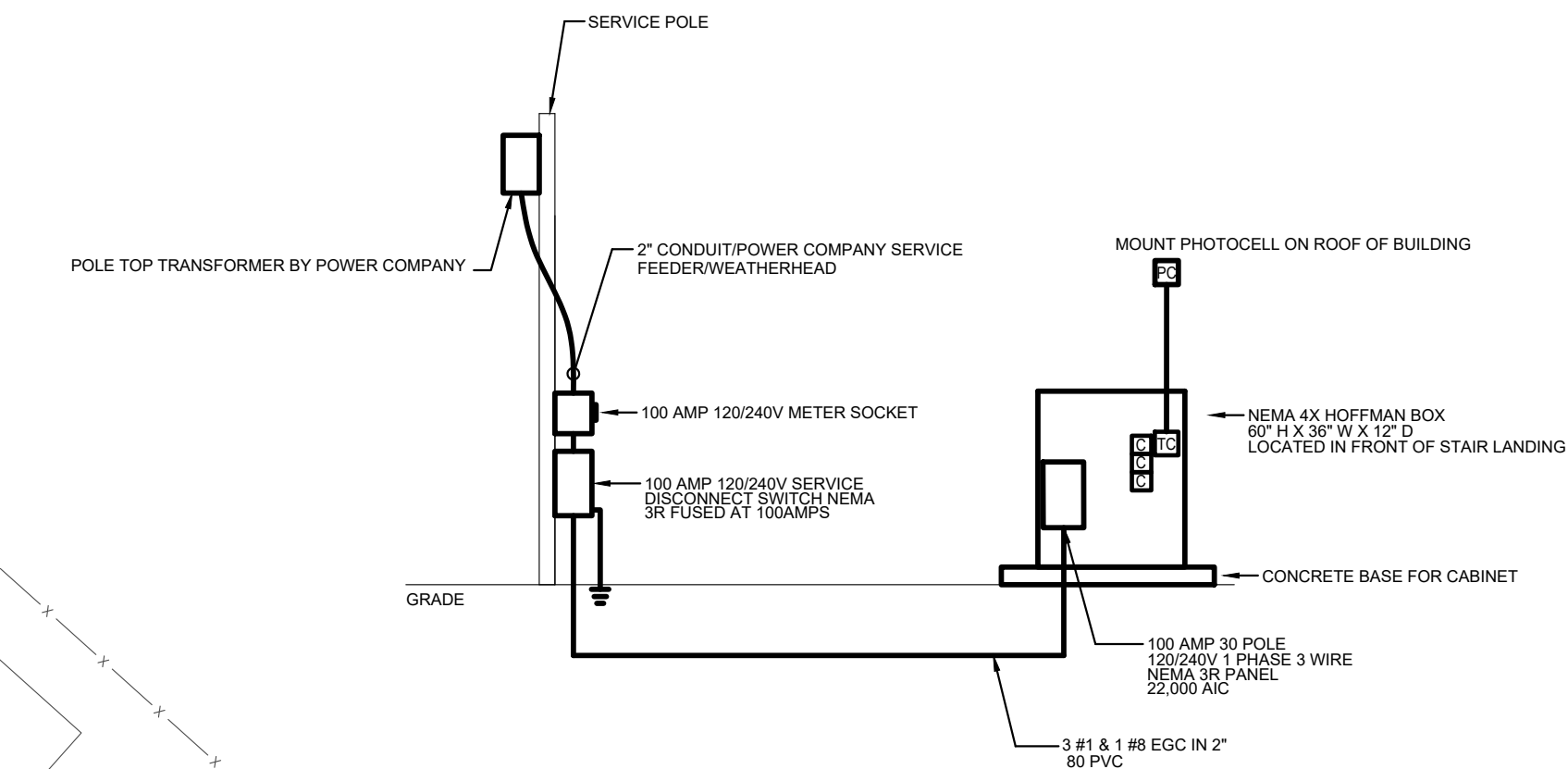
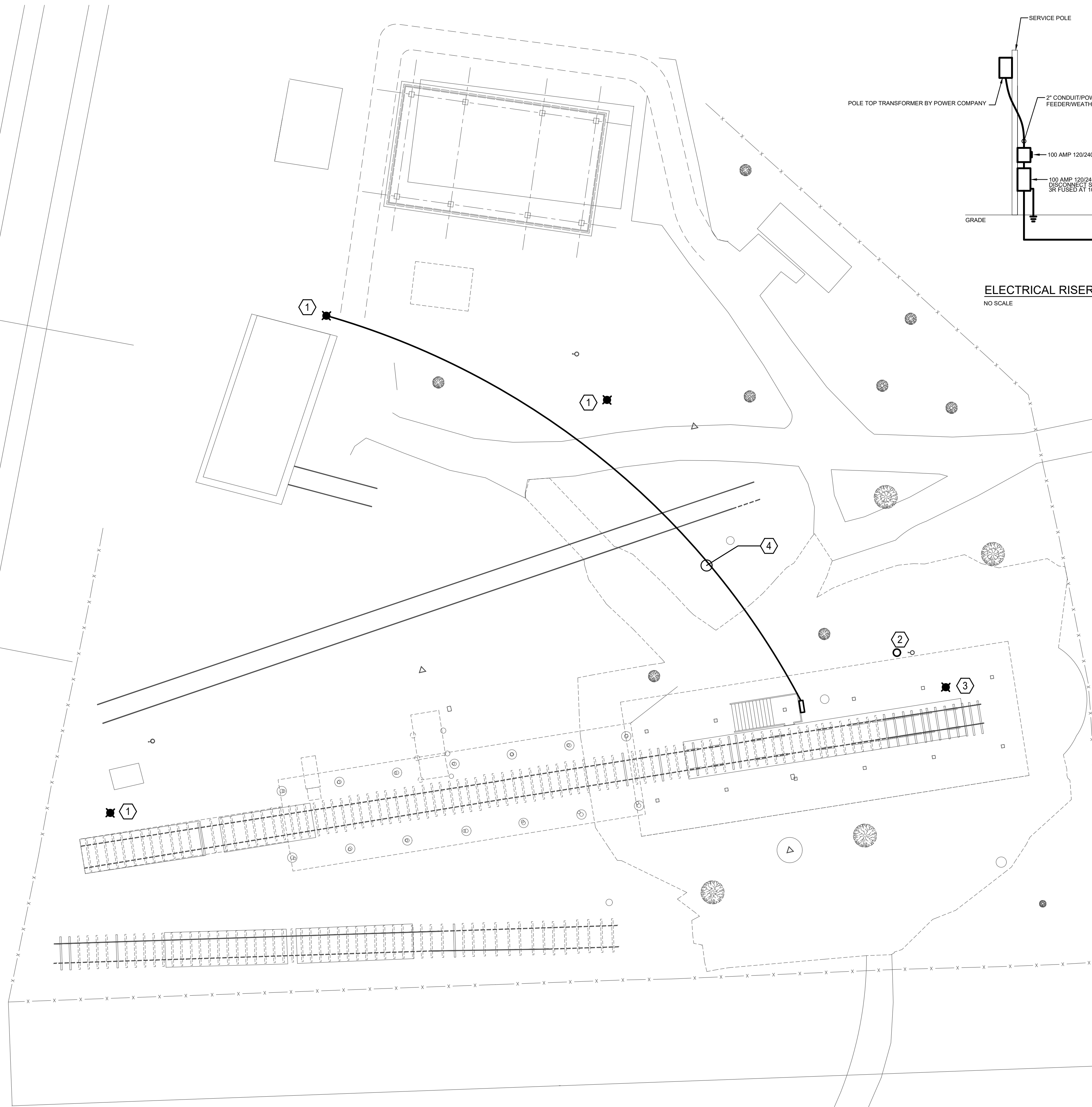
- QUAD RECEPTACLE, 20A/120V
- DUPLEX RECEPTACLE GROUND FAULT INTERRUPTER TYPE. INSTALL IN WEATHERPROOF HOUSING

GENERAL

- ① NUMBERED NOTE
- DET # SHEET DETAIL OR SECTION NOTATION
- ~ INDICATES CONTINUATION OF LINE
- ┌ BRANCH CIRCUIT WIRING
- └ HOMERUN BACK TO PANELBOARD
- * INDICATES MOUNT DEVICES ABOVE COUNTER TOP
- ⊥ GROUND

ABBREVIATIONS

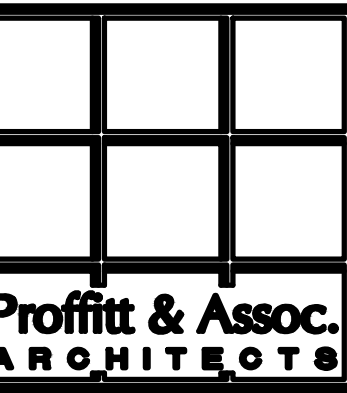
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- BFG BELOW FINISHED GRADE
- C CONDUIT
- CB CIRCUIT BREAKER
- DM DEMOLISH
- E EMERGENCY
- EC ELECTRICAL CONTRACTOR
- G GROUND FAULT CIRCUIT INTERRUPTER
- GC GENERAL CONTRACTOR
- GND GROUND
- IR INFRARED
- IG ISOLATED GROUND
- IG NOT TO SCALE
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PH PHASE
- PL PILOT LIGHT
- PNL PANEL
- SW SWITCH
- TR TAMPER RESISTANT
- UPS UNINTERRUPTED POWER SUPPLY
- V VOLTS
- W WATTS
- WM WALL MOUNTED
- WP WEATHERPROOF
- XFMR TRANSFORMER



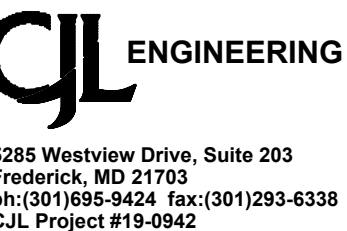
1 SITE PLAN
SE.1 SCALE: 1"=20'-0"

NUMBERED NOTES:

- ① EXISTING UTILITY/LIGHT POLES. VERIFY LOCATIONS IN FIELD.
- ② EXISTING UTILITY/LIGHT POLE TO BE RELOCATED BY CITY OF HAGERSTOWN.
- ③ EXISTING SIGNAL DISPLAY TO BE REMOVED AND STORED FOR REINSTALLATION.
- ④ NEW SERVICE FEED FROM EXISTING POWER COMPANY SERVICE POLE AT MUSEUM. WIRE AND CONDUIT INSTALLED BY CITY OF HAGERSTOWN.

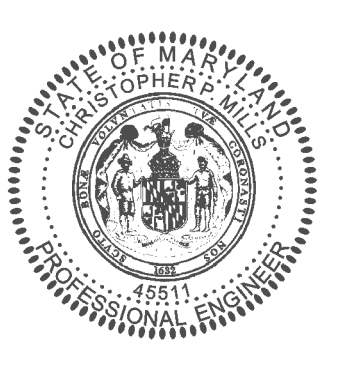


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 C.J.L. Project #19-0942

Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland.
 License No. 45511
 Expiration Date: 06/03/2024



CITY PARK TRAIN HUB
 LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
 AT HAGERSTOWN RAILROAD MUSEUM
 730 CITY PARK DRIVE,
 HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740

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SITE PLAN
SHEET 62-219-019

SE.1



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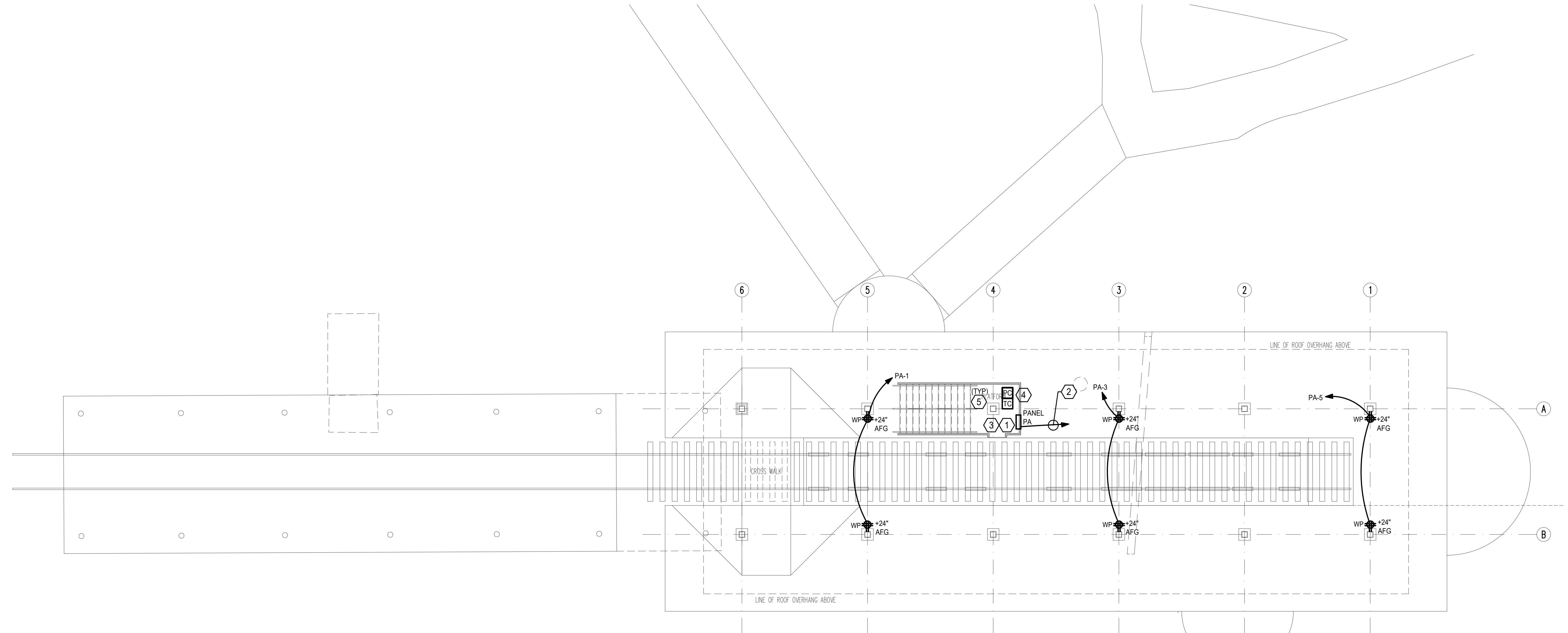


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PANEL: PA VOLTAGE: 240 120 PHASE: 1 3-WIRE
 LOCATION: PLATFORM (L-L) (L-N) MOUNTING: SURFACE
 BUS: 100A AIC RATING: 22,000 AIC
 MAIN: 100A

LOCATION	100%	50%	BKR.	POLES	CIR	CIR	POLES	BKR.	50%	100%	LOCATION
RECEPTACLES	0.72		20	1	1	2	1	20		0.18	LIGHTING
RECEPTACLES	0.72		20	1	3	4	1	20		0.18	LIGHTING
RECEPTACLES	0.72		20	1	5	6	1	20		0.13	LIGHTING
SPARE			20	1	7	8	1	20		0.05	LIGHTING
SPARE			20	1	9	10	1	20		0.13	LIGHTING
SPARE			20	1	11	12	1	20			SPARE
SPARE			20	1	13	14	1	20			SPARE
SPARE			20	1	15	16	1	20			SPARE
SPARE			20	1	17	18	1	20			SPARE
SPARE			20	1	19	20	1	20			SPARE
SPARE			20	1	21	22	1	20			SPARE
SPACE				1	23	24	1				SPACE
SPACE				1	25	26	1				SPACE
SPACE				1	27	28	1				SPACE
SPACE				1	29	30	1				SPACE
TOTAL	2.16	0.00							0.00	0.66	TOTAL

100% LOAD (kVA): 2.82 TOTAL DIV LOAD (kVA): 2.8
 50% LOAD (kVA): 0.00 CURRENT (AMPS): 11.8
 125% CURRENT: 14.7

REMARKS:

1 FLOOR PLAN - NEW WORK - POWER
 SCALE: 1/8"=1'-0"

NUMBERED NOTES:

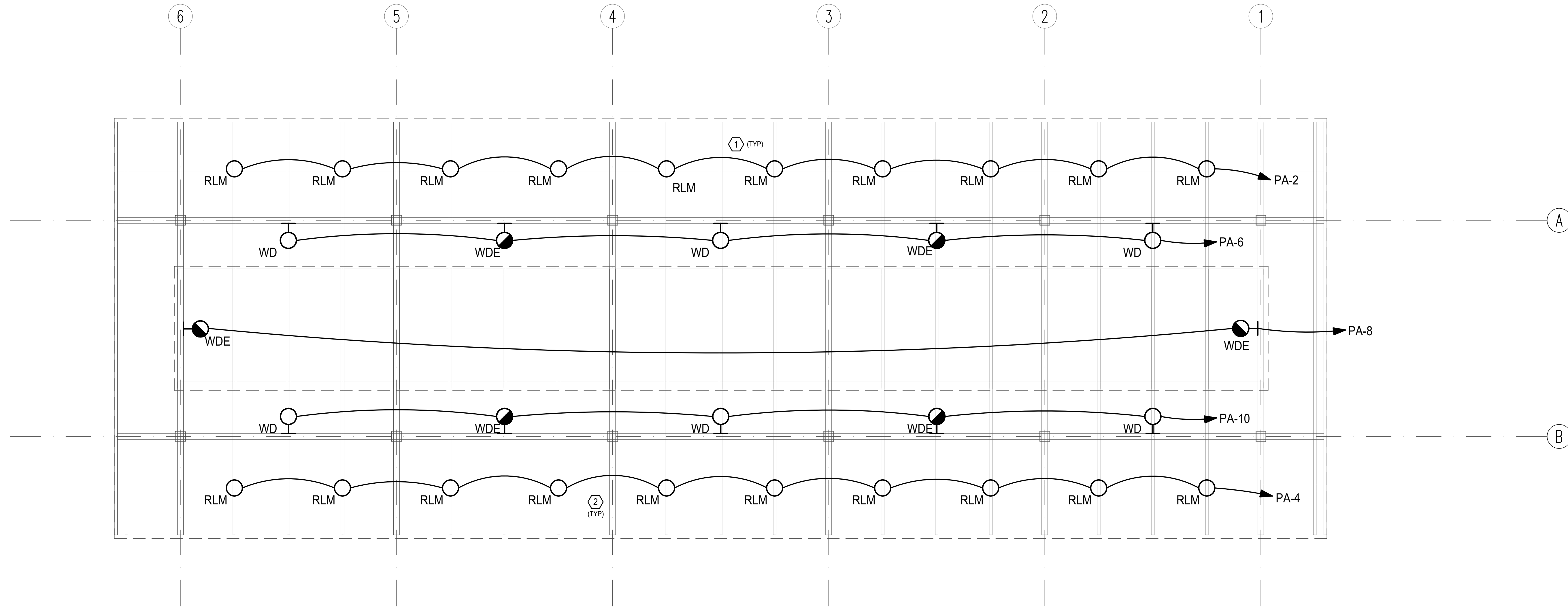
- 1 100AMP 120/240V 1 PHASE 3 WIRE SERVICE PANEL MOUNTED IN NEMA 4X STAINLESS STEEL HOFFMAN BOX. PROVIDE PANEL WITH LOCKABLE COVER.
- 2 100AMP 120/240V 1 PHASE 3 WIRE SERVICE FEED FROM EXISTING POWER COMPANY SERVICE POLE AT MUSEUM. WIRE AND CONDUIT INSTALLED BY CITY OF HAGERSTOWN.
- 3 (3) 2 POLE 30A NEMA 3R MULTI POLE. LIGHTING CONTRACTORS 600V.
- 4 PROVIDE TIME CLOCK & PHOTOCELL FOR LIGHTING CONTROL. MOUNT PHOTOCELL ON ROOF.
- 5 ROUTE CONDUIT RISERS FROM SERVICE PANEL TO STRUCTURE LIGHTING INSIDE STEEL TUBE COLUMN - SURFACE APPLIED CONDUITS ON COLUMN(S) WILL NOT BE ACCEPTED.

ISSUE

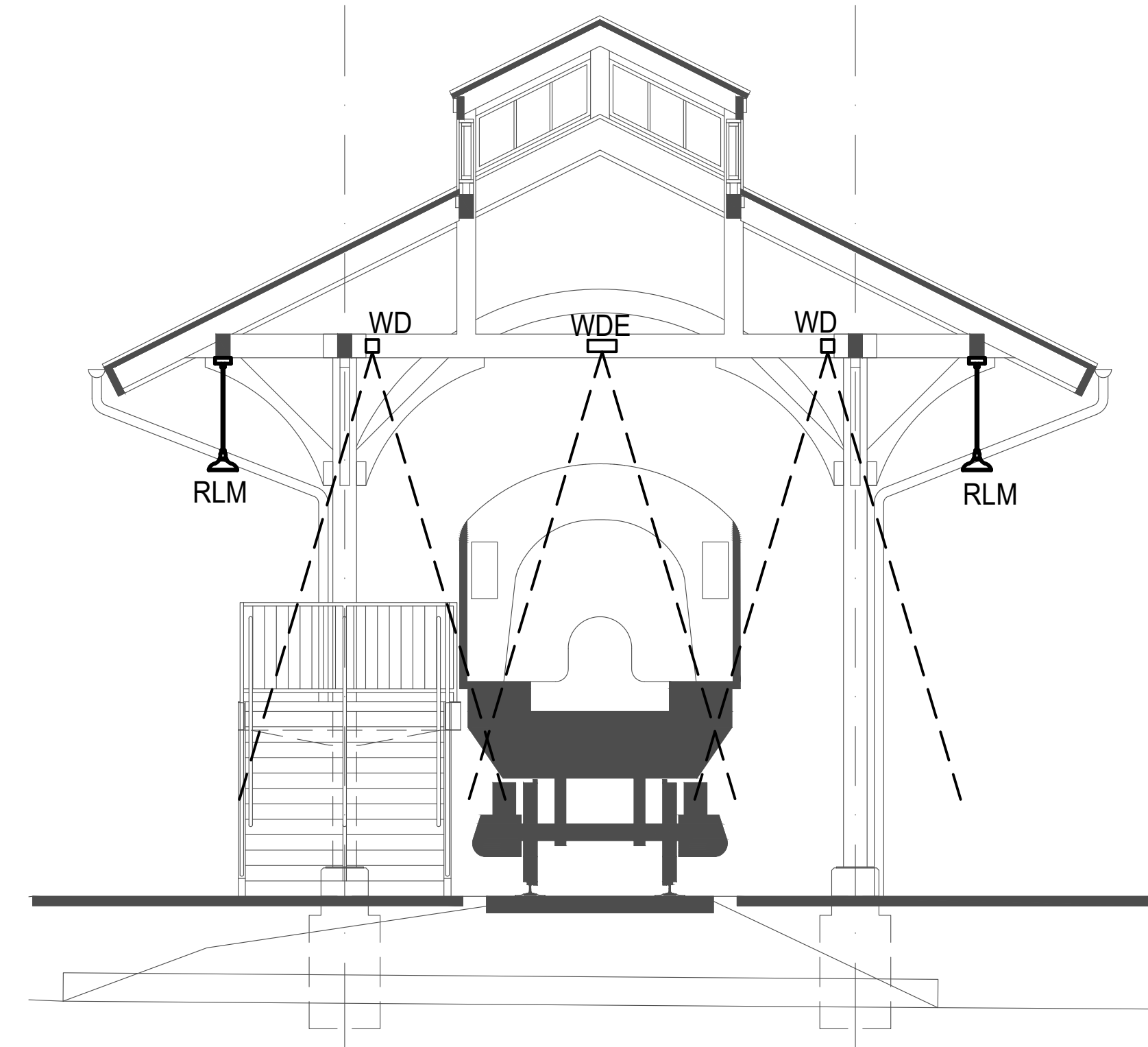
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FLOOR PLAN - NEW WORK - POWER
 SHEET 62-219-020



1 FLOOR PLAN - NEW WORK - LIGHTING
SCALE: 1/8"=1'-0"



LIGHTING MOUNTING LOCATIONS

LIGHTING FIXTURE SCHEDULE												
MARK	DESCRIPTION	MANUFACTURER	CATALOG / MODEL NUMBER	BEAM DIST	LUMENS	COLOR TEMP	CRI	WATTS	VOLTS	CONTROL	MOUNTING	ACCESSORIES
RLM	EXTERIOR WAREHOUSE SHADE	SPECTRUM LIGHTING INC	WS1210LW27L30KEXMF2RDC5HM	NA	2,700	3000k	80	18.0W	M VOLT	0-10V	RECESSED	PENDANT LENGTH TO BE SELECTED BY ARCHITECT
WD	WALL LUMINAIRE	GOHAM	IC04WTRC 30/30 LD 45D MVOLT GZ10 JBXCC DN N80	NA	3,000	3000K	80	31.4W	M VOLT	0-10V	WALL	
WDE	WALL LUMINAIRE	GOHAM	IC04WTRC 30/30 LD 45D MVOLT GZ10 JBXCC DN N80	NA	3,000	3000K	80	34.1W	M VOLT	0-10V	WALL	PROVIDE REMOTE BATTERY PACK

LIGHTING FIXTURE SCHEDULE NOTES:

1. ALL LEDS SHALL HAVE A CRI MINIMUM OF 80 AND A COLOR TEMPERATURE OF 3000K UNLESS OTHERWISE NOTED.
2. SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL.
3. VERIFY FIXTURE FINISHES AND COLOR WITH ARCHITECT.
4. THE EC SHALL PROVIDE AN ADDITIONAL NON-SWITCHED HOT WIRE FOR VOTAGE SENSING TO ALL FIXTURES PROVIDED WITH AN EMERGENCY BATTERY BACKUP.

NUMBERED NOTES:

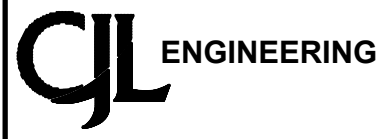
- 1 ROUTE CONDUIT RISERS FROM SERVICE PANEL TO STRUCTURE LIGHTING INSIDE STEEL TUBE COLUMN - SURFACE APPLIED CONDUITS ON COLUMN(S) WILL NOT BE ACCEPTED.
- 2 ROUTE EXPOSED CONDUIT ON TOP OF FRAMING MEMBERS TO GREATEST EXTENT POSSIBLE.

GENERAL NOTES

- G1 COORDINATE MOUNTING LOCATIONS & CONDUIT RUN LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- G2 FOR EACH EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK, PROVIDE UNSWITCHED HOT FROM THE ASSOCIATED LIGHTING CIRCUIT IN THE ROOM TO THE FIXTURE BATTERY PACK AND SENSING CIRCUIT.



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FLOOR PLAN - NEW WORK - LIGHTING SHEET 62-219-021

E.2

ELECTRICAL SPECIFICATIONS

260500 - COMMON WORK RESULTS FOR ELECTRICAL:

A. Execution Of The Work

- 1. The scope of work shown on the drawings and in these specifications, Division 26 shall be included in the base bid unless otherwise noted.
- 2. Provide all items and work indicated on the Drawings and all items and work called for in the Specifications in accordance with the conditions of Contract (Division 1 General Requirements Documents). This includes all incidentals, equipment, appliances, services, hoisting, scaffolding, supports, tools, supervision, labor, consumable items, fees, licenses, etc., necessary to provide complete systems. Perform startup and checkout on each item and system to verify the systems are fully operable.
- 3. All materials used shall bear the Underwriters Laboratory, Inc label provided a standard has been established for the material in question.

B. Coordination Of The Work

- 1. Carefully check space requirements with other trades and the physical confines of the area to ensure that all materials can be installed in the spaces allotted. Make modifications thereto as required and approved.

C. Examination Of Site

- 1. Prior to submitting of bids, the Contractor shall visit the site of the job and shall familiarize himself with all conditions affecting the proposed installation and shall make provisions as to the cost thereof. Failure to comply with the intent of this paragraph will in no way relieve the Contractor of performing all necessary work shown on the Drawings.

D. Cutting, Patching, Etc.

- 1. The work shall be carefully laid out in advance. Where Cutting, channeling, chasing or drilling of surfaces is necessary for the proper installation, support or anchorage of raceway, outlets or other equipment, the work shall be carefully done. Any damage to the building, piping, equipment or defaced finish plaster, woodwork, metalwork, etc. shall be repaired by skilled mechanics of the trades involved at no additional cost to the Owner.

E. Nominal Voltages (Unless Otherwise Noted)

- 1. Secondary Distribution: 120/240 volt, 1 phase, 3 wire.

F. Cleaning Up

- 1. Contractor shall take care to avoid accumulation of debris, boxes, crates, etc. resulting from the installation of work. Contractor shall remove from the premises each day all debris, boxes, etc., and keep the premises clean, subject to the Architect's instructions, which shall be promptly carried out.

G. Waterproofing

- 1. Avoid, if possible, the penetration of any waterproof membranes such as roofs and the like. If such penetration is necessary, perform it prior to the waterproofing and furnish all sleeves or pitch-pockets required. Advise the Architect and obtain written permission before penetrating any waterproof membrane, even where such penetration is shown on the Drawings. Perform work so as to maintain any warranties currently in effect.

H. Products

- 1. If products and materials are specified or indicated on the drawings for a specific item or system, use those products or materials. Where noted in other sections of this specification, equipment has been specified for a specific performance and substitutions are not permitted.

I. Codes And Fees

- 1. General: Comply with Codes in accordance with the Contract Documents.
- 2. The electrical installation shall be in compliance with the requirements of OSHA, NEC and A.H.J. rules and regulations.
- 3. The electrical installation shall comply fully with all township, county and state laws, ordinances and regulations applicable to electrical installations.
- 4. The electrical installation shall comply fully with 2012 IECC/ASHRAE 90.1-2010 Energy Code with amendments.
- 5. The local fees and permits and services of inspection authorities shall be obtained and paid for by the Contractor.
- 6. Certificate of inspection and approval shall be procured and paid for by this Contractor from an approved certified inspection agency.

J. Guarantee

- 1. General: Provide a Guarantee in accordance with the Contract Documents.
- 2. Submit a single guarantee stating that all portions of the work are in accordance with Contract requirements. Guarantee all work against faulty and improper material and workmanship for a period of one (1) year from date of final payment by the Owner, except that where guarantees or warranties for longer terms are specified herein, such longer term to apply.

K. Disposal

- 1. All electrical items not designated by the Owner for his use to be properly disposed of according to local, state and Federal regulations.

260508 - TESTING AND ACCEPTANCES

A. General: Complete testing of equipment and systems shall be provided throughout in accordance with the Contract Documents.

B. Except as modified by governing codes and by the Contract Documents comply with the latest applicable provisions and the latest recommendations of Industry standards shall apply except as otherwise specified.

260519 - ELECTRICAL POWER CONDUCTORS AND CABLES

A. Wire And Cable

- 1. Provide wire with a minimum insulating rating of 600 volts, except for wire used in 50 volts or below applications for control of signal systems use 300 volt minimum or 600 volt where permitted to be incorporated with other wiring systems.
- 2. Electrical grade, annealed copper fabricated in accordance with ASTM standards. Minimum size number 12 for branch circuits; number 14 for control wiring.
- 3. The conductors shown on the drawings are copper, except as noted otherwise.
- 4. Stranding and Number of Conductors: Number 12 and number 10 solid.
- 5. Cables larger than number 10, stranded in accordance with ASTM Class B stranding designations.

B. Insulation

- 1. Type THWN/THHN insulation suitable for use in wet locations up to 75 degrees Centigrade. Use for lighting, receptacle and motor circuits and for panel and equipment feeders.
- 2. Type THHN - Flame retardant. Heat-resistant thermoplastic insulation, nylon jacket rated for 90 degrees Centigrade operation. Use for lighting branch circuit wiring installed and passing through the ballast channels of fixtures, wiring in metal roofdecks in or near roof insulation, or in raceways exposed to the sun.

C. Connectors

- 1. Make connections, splices, taps and joints with solderless devices, mechanically and electrically secure. Protect exposed wires and connecting devices with electrical tape or insulation to provide not less than that of the conductor.

D. Wire And Cable

- 1. Provide a complete system of conductors in raceway system. Mount wiring through a specified raceway, regardless of voltage application.
- 2. Drawings do not indicate size of branch circuit wiring. For branch circuits whose length from panel to furthest outlet exceeds 100 feet for 120-volt circuits, use number 10 or larger.
- 3. Extend wire sizing for the entire length of a circuit, feeder, etc. unless specifically noted otherwise.
- 4. Provide a separate neutral conductor for each branch circuit. In the event a common neutral conductor is used, such as in furniture systems, the circuit breaker in the panelboard must be common trip for each phase that uses one neutral conductor.

260526 - GROUNDING AND BONDING

A. Grounding systems shall be installed in accordance with the requirements of the local authorities, and NEC Section 250.

- 1. All ground wires and bonding jumpers shall be stranded copper installed in conduit. All ground wires shall be without joints and splices over its entire length.
- 2. The system neutral shall be grounded at the service entrance only, and kept isolated from grounding systems throughout the building.
- 3. In all feeders and branch circuits install a green colored ground wire to each panel, cabinet, receptacle or a piece of control equipment.
- 4. The green ground wires shall be extended and connected to the ground bus in the panels or equipment enclosure. Neutral wiring system shall not be used for this purpose. Green ground wire shall be connected to all junction or pull boxes through which they pass and to all cabinets panel enclosures, and lighting fixtures.
- 5. This ground wire shall be run in same conduit as phase and neutral wires feeding equipment, motor or receptacles and conduit size shall be increased if necessary. This conductor shall be installed whether or not shown on the drawings and shall be sized in accordance with NEC but shall not be smaller than #12 AWG. Motors shall be grounded by a grounding terminal in their connection box. Tie all ground wires together in panels and connect to ground bus in panel cabinet.

260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

A. Support: Support work in accordance with the best industry practice and as follows:

- 1. Include supporting frames or racks extending from floor slab to ceiling slab for work indicated as being supported from walls where the walls are incapable of supporting the weight.
- 2. Supporting frames or racks shall be of standard angle, standard channel or specialty support system steel members bolted or welded together and adequately braced to form a substantial structure. Racks shall be of ample size to assure a workmanlike arrangement of all equipment mounted on them.
- 3. Nothing, (including outlet, pull and junction boxes and fittings) shall depend on electric conduits, raceways, or cables for support.
- 4. For items which are shown as being ceiling mounted at locations where fastening to the building construction element above is not possible, provide suitable auxiliary channel or angle iron bridging tying to the building structural elements.
- 5. Architect to approve all mounting hardware and methods prior to rough in of electrical lighting and receptacles.

260633 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

A. Rigid Steel Conduit - For Overhead Above Ground Branch Circuits

- 1. Rigid steel conduit heavy wall galvanized.

B. Rigid Non-Metallic Conduit - RNC - For Underground Feeder & Branch Circuit

- 1. Composed of polyvinyl chloride suitable for 90° C.
- 2. Raceway, fittings and cement must be produced by the same manufacturer who must have had a minimum of ten (10) years experience in manufacturing the products.
- 3. Materials must have a tensile strength of 7,000 - 7,200 psi and compressive strength of 9,000 psi.
- 4. All joints shall be solvent cemented in accordance with the recommendations of the manufacturer. Install expansion fittings per NEC.

C. Wireways and Auxiliary Gutters

- 1. Of sizes and shapes indicated on the Drawings and as required.
- 2. Provide all necessary elbows, tees, connectors, adaptors, etc.
- 3. Hinged cover secured with captive screws.
- 4. Wire retainers not less than 12" on center.

D. Duct Banks

- 1. Provide duct banks as indicated on the Drawings.
- 2. Provide 6" of sand around conduit prior to rockfill.
- 3. Install duct banks not less than 30" below grade. Install 6" marking ribbon 12" below grade.

E. Outlet, Junction and Pullboxes

- 1. Provide cast steel galvanized outlet boxes not less than 4" octagonal or square, unless otherwise noted.
- 2. Construct junction or pullboxes not over 150 cubic inches in size as standard outlet boxes, and those over 150 cubic inches the same as "cabinets" with screw covers of the same gauge metal.
- 3. Plug any open knockouts not utilized.
- 4. Provide surface mounted outlet and junction boxes in indoor locations where exposed to moisture and outdoor locations.

265200 - SOLID STATE LIGHTING

A. All LED Luminaires shall have a CRI of at least 80, an estimated life of at least 50,000 hours at 70% lumen maintenance and shall include a minimum 5-year warranty on the entire luminaire including the driver. The luminaire and LEDs shall have been tested in accordance with LM-79 and LM-80.

B. No substitutions other than the equal manufacturers listed on the light fixture schedule will be accepted, unless otherwise approved in writing by the Engineer.

C. Materials and fixtures:

- 1. Provide all lighting fixtures in accordance with Lighting Fixture Schedule and as indicated and required on Drawings.
- 2. Fixture catalog numbers only indicate type and style. Provide each fixture complete with proper fixture trim, levers, mounting brackets, flanges, plaster rings, glassware and accessories for complete installation as required for type of ceiling and room finish schedules.
- 3. All plastic diffusers used in lighting fixtures shall be manufactured of 100 percent virgin acrylic plastic, polycarbonate, or as otherwise noted.
- 4. Provide gaskets as required to prevent light spill between frames and ceilings.
- 5. Provide "wet" labels on all fixtures installed outdoors or in moist areas.
- 6. Provide continuity of ground on all fixtures used as raceways and mounted end to end.
- 7. All metal parts to be chemically treated with a rust resistant phosphatized solution, internal components and reflecting surfaces to have a factor of minimum 90%.
- 8. Provide luminaires, completely factory-assembled and wired and equipped with necessary light sources, drivers, wiring, shielding, reflectors, channels, lenses, etc., and deliver to job ready for installation.
- 9. Luminaire Reflector Care: Luminaires with Alzak reflectors shall be installed with Mylar cover over reflectors.
- 10. Cover shall be UL listed for temporary lighting. Upon completion of work, remove Mylar cover with white glove and blow clean reflectors.
- 11. Finish: Porcelain or baked enamel finish matte white on interiors with minimum test reflectance of 90% matte white finish or as specified in visible exterior. Thoroughly clean base metal and bonderize after fabrication.
- 12. Each luminaire shall consist of an assembly that utilizes LEDs as the light source. In addition, a complete luminaire shall consist of a housing, LED array, and electronic driver (power supply). If required, components such as the LED array and driver shall be modular and replaceable without removing the luminaire.
- 13. The LEDs shall be manufactured by Cree, Philips, Toshiba, Osram, Samsung, or Nichia, unless otherwise noted.
- 14. The driver shall meet the emission standards of IEC EN-61000-6-3 at a minimum.
- 15. Where indicated as such, provide battery pack and charger with self-diagnostics for illumination under power failure conditions.
- 16. Provide GTD or GTD20A transfer devices suitable for use with solid-state lighting (Bodine or approved equal manufacturer) as indicated on drawings, light fixture schedule, and lighting control schedule.



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Professional Certification, I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No.45511 Expiration Date: 06/03/2024



CITY PARK TRAIN HUB
LOCOMOTIVE REFURBISHMENT & PAVILION REPLACEMENT
AT HAGERSTOWN RAILROAD MUSEUM
730 CITY PARK DRIVE,
HAGERSTOWN, WASHINGTON COUNTY, MARYLAND 21740
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ISSUE		
REV	DATE	DESCRIPTION

PROJECT NO.: 19-35
DATE: 05 / 23 / 2023

ELECTRICAL SPECIFICATIONS SHEET 62-219-022

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