

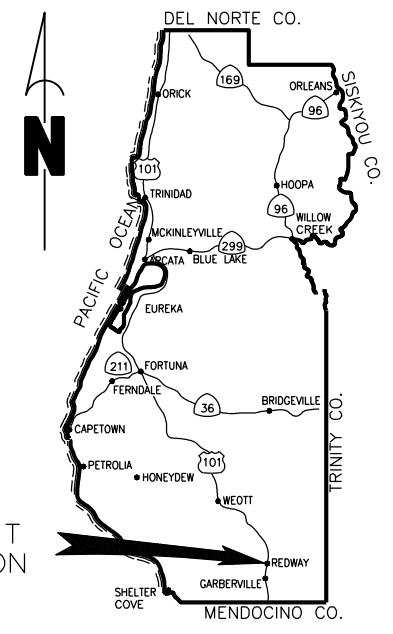
VICINITY MAP
NOT TO SCALE

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

PROJECT PLANS FOR CONSTRUCTION OF
REDWAY TRANSFER STATION
IMPROVEMENTS

PROJECT No. 438005

TO BE SUPPLEMENTED BY STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
STANDARD PLANS, STANDARD SPECIFICATIONS, LATEST REVISED 2023 STANDARD SPECIFICATIONS
AND LATEST 2022 CALIFORNIA BUILDING CODE; BUILDING, ELECTRICAL, PLUMBING, MECHANICAL, FIRE, ENERGY,
AND CALIFORNIA GREEN BUILDNG CODE



PROJECT
LOCATION

LOCATION MAP
NOT TO SCALE



NOTES

- THE CONTRACTOR SHALL HAVE A CLASS "B" LICENSE FOR CONSTRUCTION ON THIS PROJECT.
- STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE SPECIAL PROVISIONS.

GEOTECH REPORT

PREPARED BY: CRAWFORD & ASSOCIATES, INC.
REPORT DATED: JUNE. 28 2023

SURVEY INFORMATION

PREPARED BY: HUMBOLDT COUNTY PUBLIC WORKS
FIELD SURVEY COMPLETED: FEBRUARY 2025
PROJECT #438005

STANDARD ABBREVIATIONS					
AB	AGGREGATE BASE	FOC	FACE OF CURB	RPT	RADIAL POINT
ADA	AMERICANS WITH DISABILITIES ACT	FOW	FACE OF WALK	Rt	RIGHT
	ANGLE POINT	FT	FOOT (FEET)	R/W	RIGHT OF WAY
AP	BEGIN	G	GAS	S	SLOPE
BEG	BACK FLOW PREVENTOR	GB	GRADE BREAK	SAW	SAWCUT LINE
BFP	BACK OF CURB	GFL	GUTTER FLOWLINE	SD	STORM DRAIN
BOC	BACK OF WALK	GR	INLET GRATE	SDMH	STORM DRAIN MANHOLE
BOW	BARBED WIRE	GV	GATE VALVE	SF	SQUARE FOOT, OR FEET
BW	CONCRETE	HUCSD	HUMBOLDT COUNTY SERVICES DISTRICT	SHT	SHEET
CONC	CURB AND GUTTER	HMA	HOT MIX ASPHALT	SS	SANITARY SEWER
C&G	CENTERLINE OR CLASS OR CHAINLINK	HP	HIGH POINT	SSCO	SANITARY SEWER CLEANOUT
CL	CLEAR	IRR	IRRIGATION	SSMH	SANITARY SEWER MANHOLE
CLR	CURB, GUTTER & CLEANOUT	LF	LINEAR FEET	STD	STANDARD
CG	CURB RAMP	LIP	LIP OF GUTTER	SW	SIDEWALK
CO	DRAIN INLET	LP	LOW POINT	TBC	TOP BACK OF CURB
CR	DRAWING	Lt	LEFT	TBW	TOP BACK OF WALK
DI	DRIVEWAY	MAX	MAXIMUM	TC	TOP OF CURB
DWG	EXISTING GRADE	MH	MANHOLE	TEL	TELECOMMUNICATION-TELEPHONE
DWY	ELEVATION	MIN	MINIMUM	TEMP	TEMPORARY
EG	ELBOW (PIPE)	MOD	MODIFIED	TFC	TOP FACE OF CURB
EL/ELEV	EDGE OF PAVEMENT	NTS	NOT TO SCALE	TS	TRAFFIC SIGNAL
ELL	EXISTING	OG	ORIGINAL GROUND	TYP	TYPICAL
EP	EXISTING FLOOR	OH	OVERHEAD	UG	UNDERGROUND
EXIST	FINISHED GRADE	PB	PULL BOX	VAR	VARIES
FF	FINISHED GRADE	PCC	PLAIN CEMENT CONCRETE	VG	VEE GUTTER/VALLEY GUTTER
FG	FLOWLINE	P/L	PROPERTY LINE	VOL	VOLUME
FL	FORCE MAIN (SS)	PP	POWER POLE	W	WATER
FM		PVMT	PAVEMENT	WM	WATER METER
				WV	WATER VALVE
				XING	CROSSING

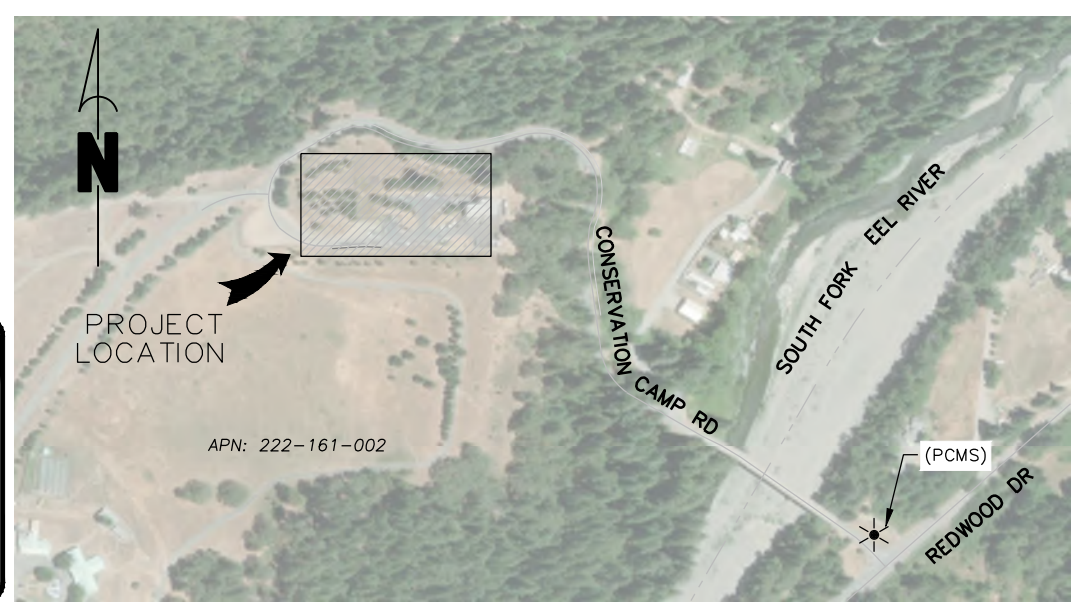
INDEX OF SHEETS

1	TITLE SHEET	45	UTILITY PLAN
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3	DEMOLITION PLAN	47-52	ELECTRICAL PLANS (EO.1-E4)
4	SITE PLAN	53-58	TITLE 24 - ENERGY COMPLIANCE
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42-43	EXISTING TRANSFER BUILDING REPAIRS AND INTERIOR DEMOLISH		
44	PROPOSED RECYCLING BUILDING		

Avoid cutting underground utility lines. It's costly.

Call before you Dig

811 OR 800-642-2444
UNDERGROUND SERVICE (USA)



Tony Seghetti
TONY SEGHETTI
RCE 63714, EXP. 9/30/2026

8/20/25
DATE



Jason Hickey
JASON HICKEY
RSE S5783, EXP. 05/29/2026

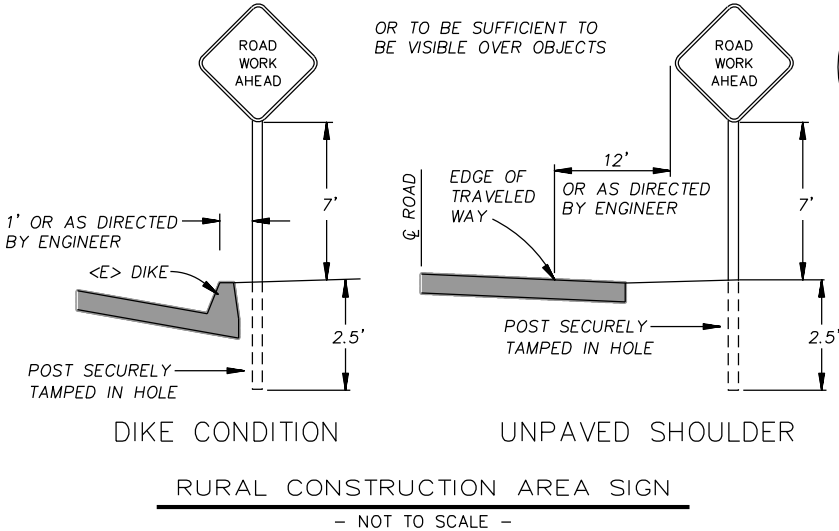
8/19/25
DATE



ORIGINAL LOW BID PRICE	CONSTRUCTED BY	RESIDENT ENGINEER
	PROJECT COMPLETED / /	CONSTRUCTION COST \$

NOTES

- SIGNS SHALL BE PLACED AS SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
- FINAL PLACEMENT OF SIGNS SHALL BE APPROVED BY RESIDENT ENGINEER.
- ADDITIONAL PORTABLE SIGNS SHALL BE USED AS REQUIRED FOR OTHER ROADSIDE WORK.
- SEE STANDARD PLAN T13 FOR TRAFFIC CONTROL SYSTEM.
- IN ADDITION TO CONSTRUCTION AREA SIGNS AND WHEN DIRECTED BY THE RESIDENT ENGINEER, THE CONTRACTOR SHALL UTILIZE FLAGMEN AS NECESSARY TO DIRECT TRAFFIC.
- PLACE SIGNS APPROXIMATELY 100 FEET APART
- DISTANCE TO W20-1 AND G20-2 MAY BE EXTENDED TO ENCOMPASS SITES WITHIN ONE MILE OF EACH OTHER.
- WHEN THROUGH TRAFFIC IS ALLOWED, KEEP A MINIMUM OF 1 TRAFFIC LANE AT LEAST 10 FEET WIDE OPEN FOR TRAFFIC, EXCEPT THE FULL WIDTH OF THE TRAVELED WAY (18' MINIMUM) MUST BE OPEN WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVE OR AN APPROVED TRAFFIC CONTROL PLAN IS IN PLACE.
- CONTRACTOR MUST PROVIDE A MINIMUM OF 14 DAYS NOTICE OF COMPLETE ROAD CLOSURE TO ENGINEER.



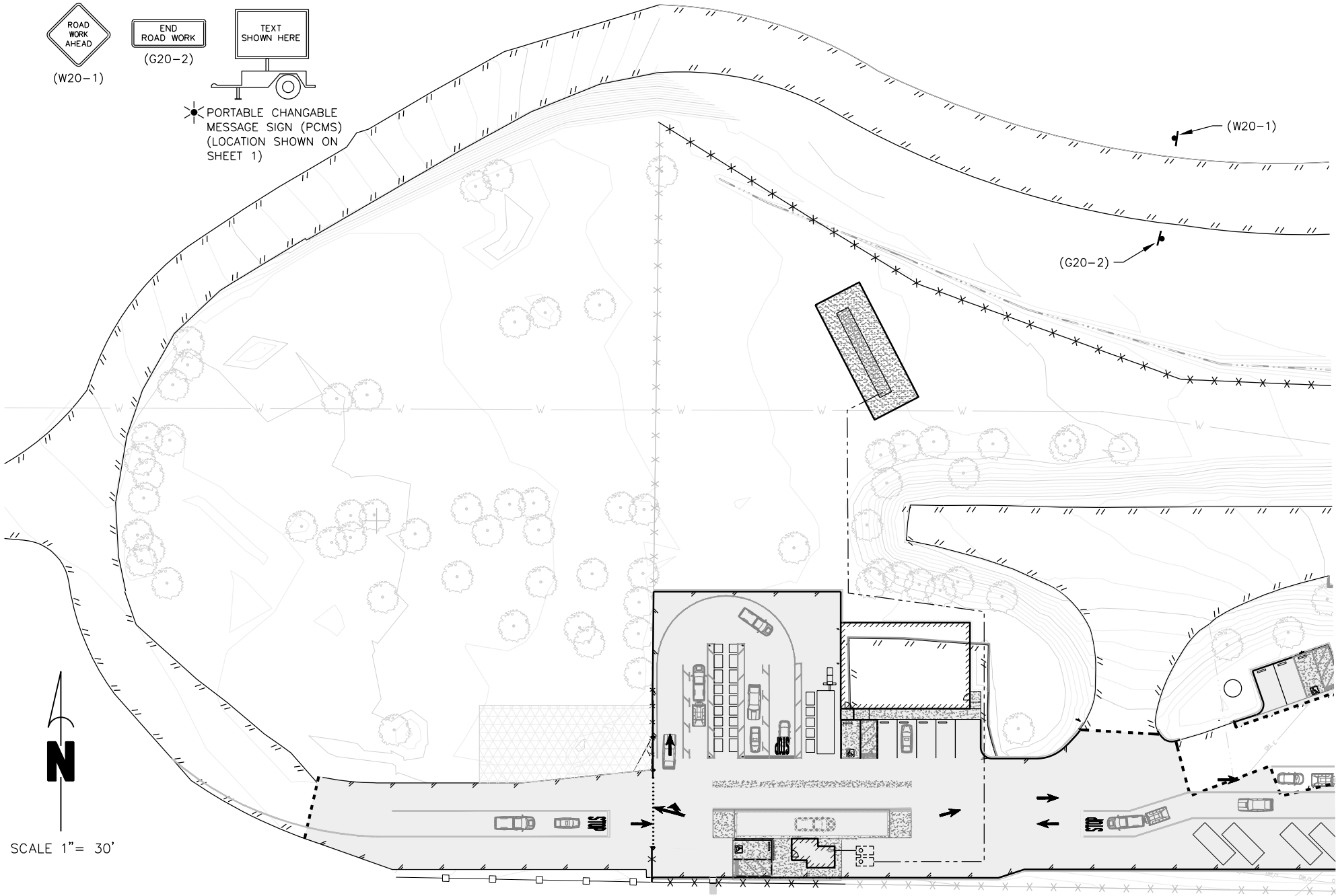
<div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 2 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DRAWN BY: PBS	TRAFFIC CONTROL PLAN	
	DRAWING FILE NAME: RTS_SITE PLAN		REVIEWED BY: JAB		
	PLOT DATE: 08/19/25		APPROVED BY: TRS		

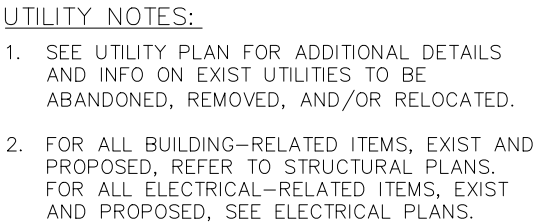
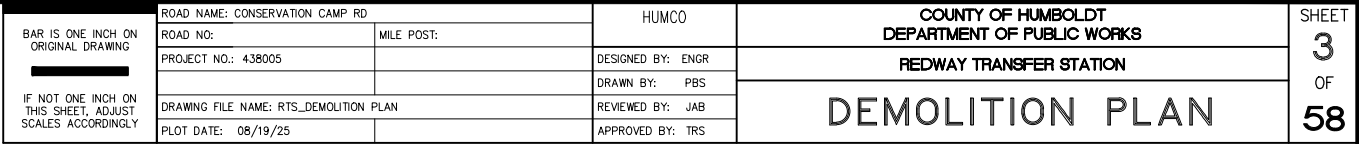
QUANTITY SUMMARY

ITEM No.	ITEM CODE	ITEM DESCRIPTION	UNIT	QUANTITY
1	120100	TRAFFIC CONTROL SYSTEM	LS	1
2	130100	JOB SITE MANAGEMENT	LS	1
3	130201	WATER POLLUTION CONTROL PROGRAM	LS	1
4	130620	TEMPORARY DRAINAGE INLET PROTECTION	EA	3
5	130640	TEMPORARY FIBER ROLL	LF	50
6	130680	TEMPORARY SILT FENCE	LF	320
7	130900	TEMPORARY CONCRETE WASHOUT	LS	1
8	153250	REMOVE GUARD SHELTER, SCALE, AND SCALE FOUNDATION	LS	1
9	170103	CLEARING AND GRUBBING	LS	1
10	190101	ROADWAY EXCAVATION	CY	1,227
11	210212	DRY SEED	SQFT	3,150
12	210420	STRAW	SQFT	3,150
13	260203	CLASS 2 AGGREGATE BASE	CY	1,517
14	390132	HOT MIX ASPHALT (TYPE A)	TON	608
15	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	LF	688
16	398100	REMOVE ASPHALT CONCRETE DIKE	LF	742
17	568064	4" SCH 80 STEEL PROTECTIVE BOLLARD	EA	20
18	723095	ROCK SLOPE PROTECTION (20 LB, CLASS I, METHOD B) (CY)	CY	1
19	731512	MINOR CONCRETE (PARKING, SIDEWALK, LANDING)	CY	36
20	731513	MINOR CONCRETE (VALLEY GUTTER)	CY	5
21	770100	WATERLINE SYSTEM	LS	1
22	770200	WASTE WATER SYSTEM	LS	1
23	780500	PARKING BUMPER (PRECAST CONCRETE)	EA	9
24	800001	FENCE (TYPE BW, METAL POST)	LF	215
25	800363	CHAIN LINK FENCE (TYPE CL-6 W/BW, EXTENSION ARM)	LF	684
26	802675	36" SECURITY METAL SLIDING GATE	EA	1
27	803030	REMOVE FENCE (TYPE CL W/BW)	LF	438
28	803035	REMOVE FENCE (TYPE BW WOOD POST AND METAL T-POST)	LF	755
29	820001	INSTALL SIGNS (STANDARD AND CUSTOM)	LS	1
30	840501	THERMOPLASTIC TRAFFIC STRIPE	LF	1836
31	840515	THERMOPLASTIC PAVEMENT MARKING	SF	260
32	840651	PAINTED ADA PAVEMENT MARKINGS (ADA PARKING)	SF	93
33	840665	PAINT ADA PARKING LINES (1-COAT) (ADA PARKING)(RED CAUTION LINE)	SF	161
34	870100	ELECTRICAL AND LIGHTING SYSTEM	LS	1
35	990100	FURNISH AND INSTALL 2400 SF METAL BUILDING (RECYCLING)	LS	1
36	990200	FURNISH AND INSTALL 218 SF STICK FRAME BUILDING (WEIGH STATION)	LS	1
37	990300	WEIGH SCALE (RICE LAKE - SURVIVOR OTR)	LS	1
38	990400	REMOVE SCALE FACILITIES AND DEMOLITION, REPAIR, REPLACE DOORS EXISTING BUILDING (TRANSFER)	LS	1
39	991000	FURNISH AND INSTALL PLUMBING FOR BUILDINGS	LS	1
40	999990	MOBILIZATION	LS	1





XX XXXX
ITEM NO. CODE DESCRIPTION
SPECIFICATION SECTION NUMBER WITHIN STATE
OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
(CALTRANS) 2024 STANDARD SPECIFICATION

THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2024 STANDARD SPECIFICATIONS AND 2024 STANDARD PLANS CAN BE FOUND AT
[HTTPS://DOT.CA.GOV/PROGRAMS/DESIGN/OCTOBER-2024-CCS-STANDARD-PLANS-AND-STANDARD-SPECIFICATIONS.](https://dot.ca.gov/programs/design/october-2024-ccs-standard-plans-and-standard-specifications)













LEGEND:

	REMOVE EXIST HMA SECTION
	REMOVE EXIST CONC. / FOUNDATION
	REMOVE EXIST NATIVE SOIL MATERIAL
	APPROXIMATE SAWCUT LINE

LEGEND:

-  HMA SECTION LIMITS  } SEE SECTIONS TO RIGHT
 PCC SECTION LIMITS  }
 LIMITS OF SLURRY SEAL (SAWCUT)
 SURVEY CONTROL POINT LOCATION
 LIMITS OF 5'x5' (MIN) ADA LEVEL LANDING AT DOORWAY THRESHOLD. SET TO 1.50% CROSS SLOPE (2.0% MAX) IN ALL DIRECTIONS, TYP
 BOLLARD





NOTES:

- THESE NOTES SHALL APPLY TO ALL DRAWINGS UNLESS NOTIFIED OTHERWISE OR SHOWN.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE (CBC), AND THE LATEST CORRESPONDING EDITIONS OF THE FOLLOWING CALIFORNIA CODES: MECHANICAL (CMC), ELECTRICAL (CEC), PLUMBING (CPC), FIRE (CFC), ENERGY (CEC), AND THE CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN).
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT HUMBOLDT COUNTY DEPARTMENT OF PUBLIC WORKS.
- FOR SPECIFIC LAYOUT INFORMATION AND DETAILS NOT SHOWN HERE, SEE CONSTRUCTION DETAILS (UNLESS OTHERWISE NOTED).
- SEE SUPPLEMENTAL DOCUMENT: GEOTECHNICAL REPORT WRITTEN BY CRAWFORD & ASSOCIATES DATED JUNE 23, 2023. FOLLOW ALL RECOMMENDATIONS.
- INSTALL ALL APPLICABLE REQUIREMENTS PER HUMBOLDT COUNTY COMMUNITY WILDFIRE PROTECTION PLAN, 2019.

PAVEMENT SECTION DESIGN DESIGNATION:

R-VALUE = 11
T.I. = 6.0

PROPOSED SECTIONS:

-  0.25' HMA
 1.00' CLASS 2 AB
 0.50' PCC
 0.50' CLASS 2 AB

PARKING:

- 1 (1) ADA VAN ACCESSIBLE PARKING
 2 (1) ADA VAN ACCESSIBLE PARKING AND (4) 9'x18' TYP. STALLS
 3 (1) ADA VAN ACCESSIBLE PARKING AND (2) 10'x20' STALLS



BASIS OF BEARING:

GPS CALIFORNIA COORDINATE SYSTEM, ZONE 1, NAD 83, COMBINATION FACTOR 0.99994964, GAMMA ANGLE -1'11"20", EPOCH 2010.00. ROTATE GRID BEARINGS SHOWN HEREON COUNTER-CLOCKWISE BY 1'11"20" TO OBTAIN GEODETIC (TRUE) BEARINGS.

BASIS OF ELEVATION:

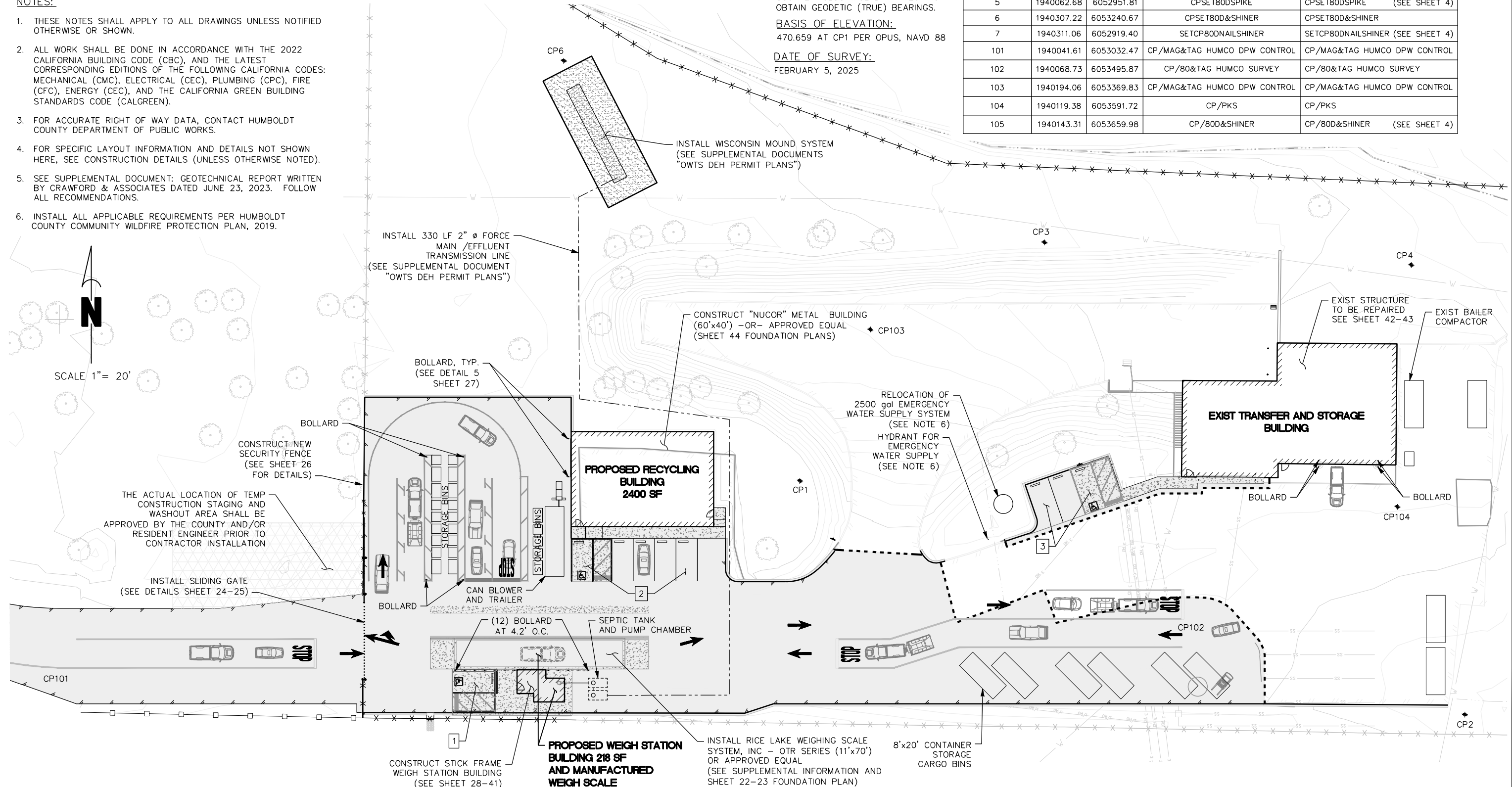
470.659 AT CP1 PER OPUS, NAVD 88

DATE OF SURVEY:

FEBRUARY 5, 2025

ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 4 OF 58
ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION		
PROJECT NO: 438005		DRAWN BY: PBS			
DRAWING FILE NAME: RTS_SITE PLAN		REVIEWED BY: JAB	SITE PLAN		
PLOT DATE: 08/19/25		APPROVED BY: TRS			

POINT TABLE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1940130.33	6053340.11	CPSET80DSPIKE	CPSET80DSPIKE
2	1940031.92	6053620.11	CPSET80DSPIKE	CPSET80DSPIKE
3	1940230.77	6053443.08	CPSET80DSPIKE	CPSET80DSPIKE
4	1940221.24	6053597.54	CPSET80DSPIKE	CPSET80DSPIKE
5	1940062.68	6052951.81	CPSET80DSPIKE	CPSET80DSPIKE (SEE SHEET 4)
6	1940307.22	6053240.67	CPSET80D&SHINER	CPSET80D&SHINER
7	1940311.06	6052919.40	SETCP80DNAILSHINER	SETCP80DNAILSHINER (SEE SHEET 4)
101	1940041.61	6053032.47	CP/MAG&TAG HUMCO DPW CONTROL	CP/MAG&TAG HUMCO DPW CONTROL
102	1940068.73	6053495.87	CP/80&TAG HUMCO SURVEY	CP/80&TAG HUMCO SURVEY
103	1940194.06	6053369.83	CP/MAG&TAG HUMCO DPW CONTROL	CP/MAG&TAG HUMCO DPW CONTROL
104	1940119.38	6053591.72	CP/PKS	CP/PKS
105	1940143.31	6053659.98	CP/80D&SHINER	CP/80D&SHINER (SEE SHEET 4)





		ROADWAY QUANTITIES									
ALIGNMENT	TYPE										
		ROADWAY EXCAVATION	STRUCTURE EXCAVATION	CLASS 2 AGGREGATE BASE (CY)	HOT MIX ASPHALT (HMA) TYPE A	HMA DIKE (TYPE A)	MINOR CONCRETE (SIDEWALK, LANDING)	MINOR CONCRETE (PARKING)	MINOR CONCRETE (VALLEY GUTTER)	STRUCTURE CONCRETE	ROCK SLOPE PROTECTION (20BLS, CLASS 1)
LINE	BUILDING/OTHER	CY	CY	CY	TON	LF	CY	CY	CY	CY	CY
C		325		233	58						
T		903		1285	236	17	18	17	7		1
	RECYCLING		*152							*79	
	WEIGH STATION		23							8	
	WEIGH SCALE		*345							*74	

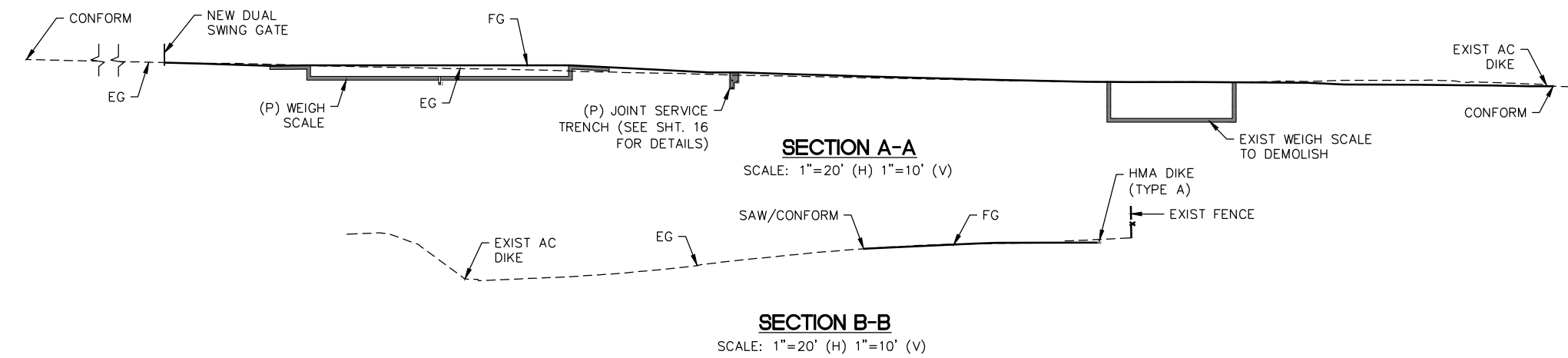
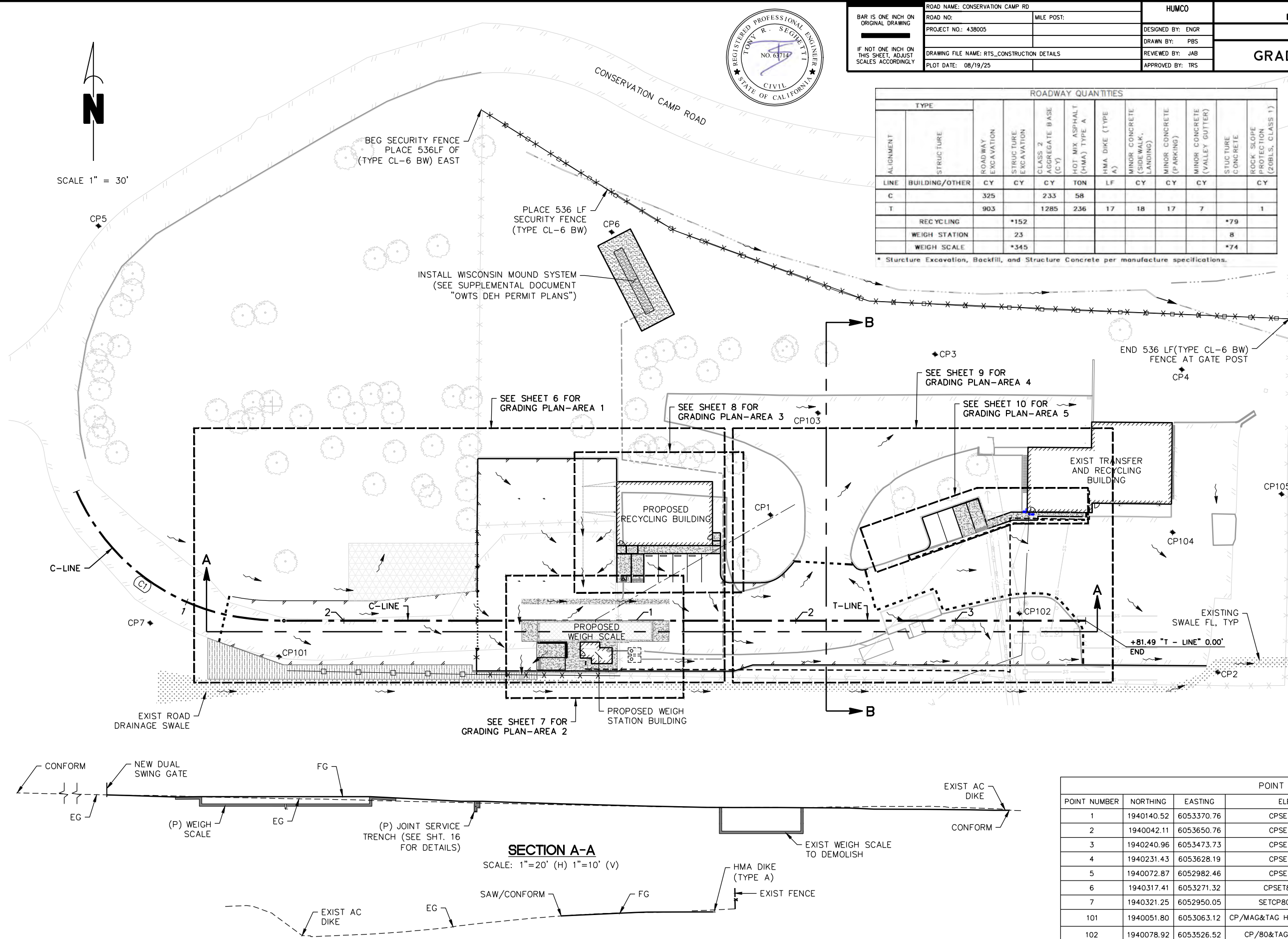
* Structure Excavation, Backfill, and Structure Concrete per manufacture specifications.

- NOTES:
- CONTRACTOR MUST FOLLOW GENERAL GRADING NOTES AS OUTLINED IN COUNTY LAND USE AND DEVELOPMENT, DIVISION 3, BUILDING REGULATIONS SECTION 331-14: GRADING, EXCAVATION, EROSION, AND SEDIMENTATION CONTROL.
 - EP POINTS ARE CALLED OUT AND DESCRIBED FOR FG ELEVATION REFERENCE. MOST EP CALLOUTS ARE LOCATED ALONG FACE OF HMA DIKE.
- STOCKPILE NOTES:
- MANAGE MATERIAL PER SECTION 13-4.03C OF THE 2024 CALTRANS SPECIFICATIONS.
 - IF STOCKPILE AREA IS IN A TURNOUT, THE TURNOUT SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITIONS.
 - STOCKPILE LOCATIONS SHALL BE APPROVED BY THE COUNTY AND/OR RESIDENT ENGINEER PRIOR TO CONTRACTOR INSTALLATION

- LEGEND:
- HMA SECTION LIMITS
 - PCC SECTION LIMITS
 - LIMIT OF SLURRY SEAL (SAWCUT)
 - SWALE FL/SURFACE FLOW DIRECTION
 - EXIST OVERLAND RELEASE LOCATION
 - BOLLARD
 - EDGE OF PAVEMENT
 - OVERLAND RELEASE LOCATION

ALIGNMENT CURVE TABLE				
CURVE	RADIUS	DELTA	TANGENT	LENGTH
C1	133.74'	53°51'52"	67.94'	125.73'

POINT TABLE				
POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1940140.52	6053370.76	CPSET80DSPIKE	CPSET80DSPIKE
2	1940042.11	6053650.76	CPSET80DSPIKE	CPSET80DSPIKE
3	1940240.96	6053473.73	CPSET80DSPIKE	CPSET80DSPIKE
4	1940231.43	6053628.19	CPSET80DSPIKE	CPSET80DSPIKE
5	1940072.87	6052982.46	CPSET80DSPIKE	CPSET80DSPIKE
6	1940317.41	6053271.32	CPSET80D&SHINER	CPSET80D&SHINER
7	1940321.25	6052950.05	SETCP80DNAILSHINER	SETCP80DNAILSHINER
101	1940051.80	6053063.12	CP/MAG&TAG HUMCO DPW CONTROL	CP/MAG&TAG HUMCO DPW CONTROL
102	1940078.92	6053526.52	CP/80&TAG HUMCO SURVEY	CP/80&TAG HUMCO SURVEY
103	1940204.26	6053400.48	CP/MAG&TAG HUMCO DPW CONTROL	CP/MAG&TAG HUMCO DPW CONTROL
104	1940129.58	6053622.37	CP/PKS	CP/PKS
105	1940153.50	6053690.63	CP/80D&SHINER	CP/80D&SHINER



LEGEND:

HMA SECTION LIMITS } SEE SECTION DEPTH ON
PCC SECTION LIMITS } SITE PLAN

LIMITS OF 4'x4' (MIN) CLEAR WIDTH AT ADA
DOORWAY THRESHOLD, OR WHERE SHOWN.
LANDING SET TO 1.50% CROSS SLOPE (2.0%
MAX) IN ALL DIRECTIONS, TYP

BUILDING STRUCTURE

SWALE FL/SURFACE
FLOW DIRECTION
X.X%
GRADE SLOPE PERCENT
• • •
BOLLARD
.....
GRADEBREAK
———
EDGE OF PAVEMENT

N
SCALE 1"= 10'

THE ACTUAL LOCATION OF TEMP
CONSTRUCTION STAGING AND
WASHOUT AREA SHALL BE
APPROVED BY THE RESIDENT
ENGINEER PRIOR TO CONTRACTOR
INSTALLATION. STAGING AREA
SHALL BE REESTABLISHED TO
PRE-CONSTRUCTION CONDITIONS.

BEG SECURITY FENCE
PLACE 41LF OF
(TYPE CL-6 BW) SOUTH

END 41LF (TYPE CL-6
BW) FENCE AT GATE POST

INSTALL DUAL 36' SLIDING GATE
WITH BW (36 LF TOTAL) (SEE
DETAILS SHEET 24-25)

BEG SECURITY FENCE
PLACE 107LF OF
(TYPE CL-6 BW) SOUTH
THEN EAST

BEG METAL
T-POST FENCE
PLACE 215 LF
(TO EAST)
SCARIFY EG
TO BASE OF EXIST VEGETATED
DRAINAGE SWALE (OVERLAND
RELEASE SHOWN AS HATCH)

EXIST
DRAINAGE SWALE

END 215LF METAL
T-POST FENCE

BEG HMA DIKE
INSTALL 458 LF (TYPE A)
SEE SHEET 9 FOR END (TO EAST)

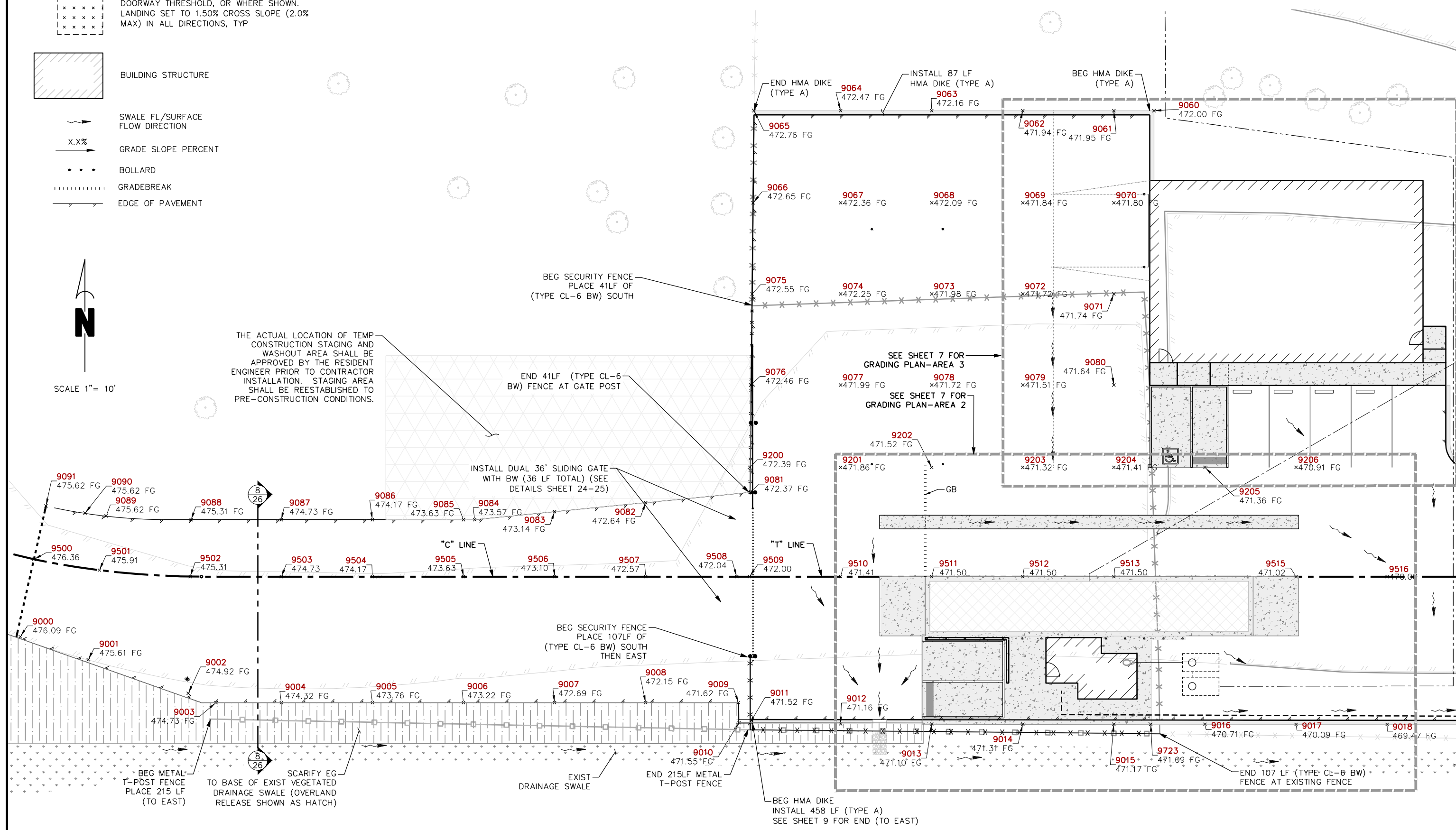







BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: CONSERVATION CAMP RD	HUMCO
ROAD NO:	DESIGNED BY: ENGR
PROJECT NO.: 438005	DRAWN BY: PBS
DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS	REVIEWED BY: JAB
PLOT DATE: 08/19/25	APPROVED BY: TRS

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
GRADING PLAN-AREA 1

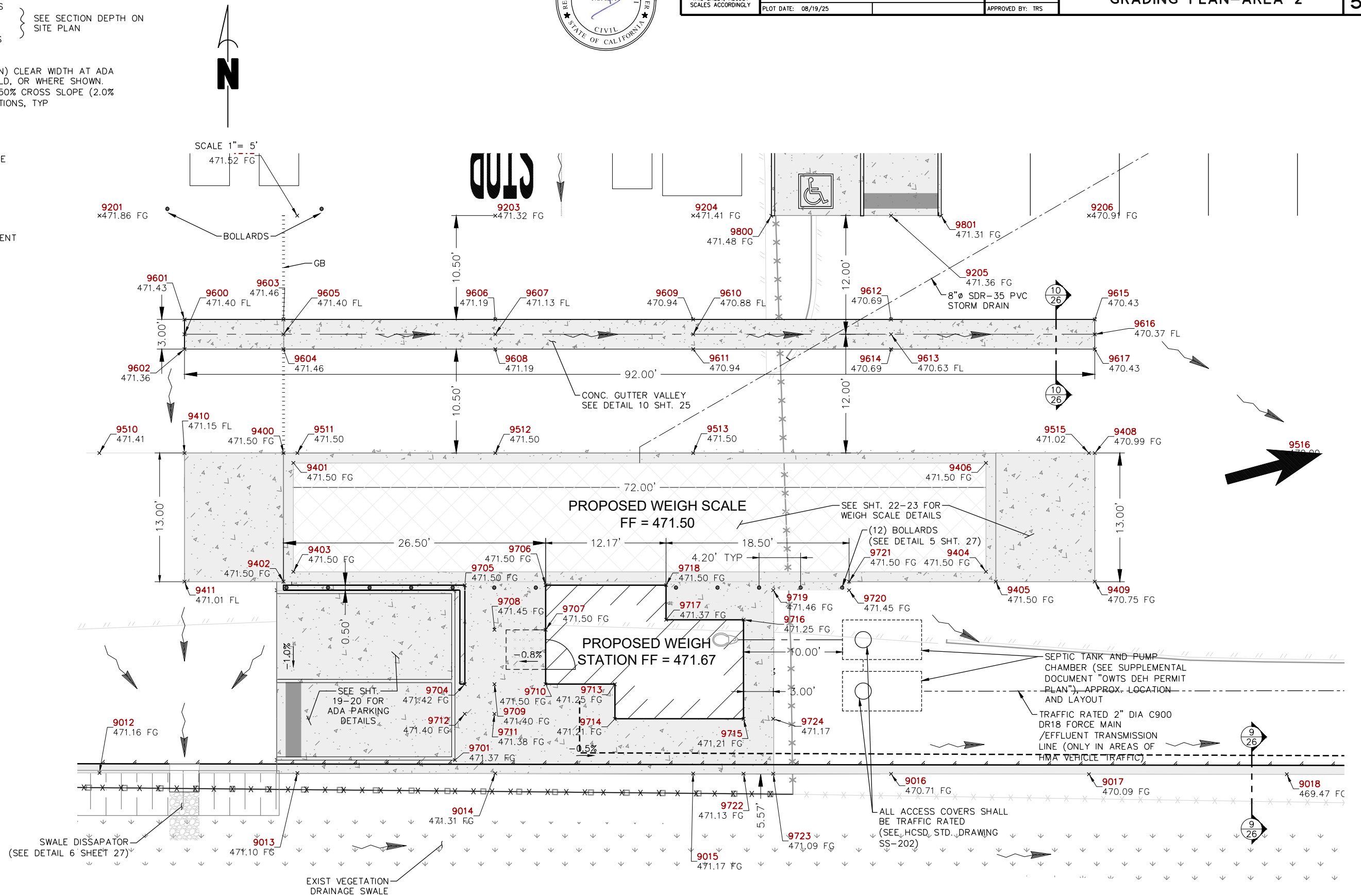
SHEET
6
OF
58






	SWALE FL/SURFACE FLOW DIRECTION
	GRADE SLOPE PERCENT
	BOLLARD
	GRADE BREAK
	EDGE OF PAVEMENT





BAR IS ONE INCH ON ORIGINAL DRAWING [REDACTED] IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 7 OF 58
	ROAD NO:	MILE POST:		REDWAY TRANSFER STATION		
	PROJECT NO.: 438005		DESIGNED BY: ENGR			
			DRAWN BY: PBS			
	DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS		REVIEWED BY: JAB	GRADING PLAN-AREA 2		
PLOT DATE: 08/19/25		APPROVED BY: TRS				





 HMA SECTION LIMITS
  SEE SECTION DEPTH ON SITE PLAN


 PCC SECTION LIMITS


 LIMITS OF 4'x4' (MIN) CLEAR WIDTH AT ADA DOORWAY THRESHOLD, OR WHERE SHOWN. LANDING SET TO 1.50% CROSS SLOPE (2.0% MAX) IN ALL DIRECTIONS, TYP


 BUILDING STRUCTURE

 SWALE FL/SURFACE FLOW DIRECTION

 GRADE SLOPE PERCENT

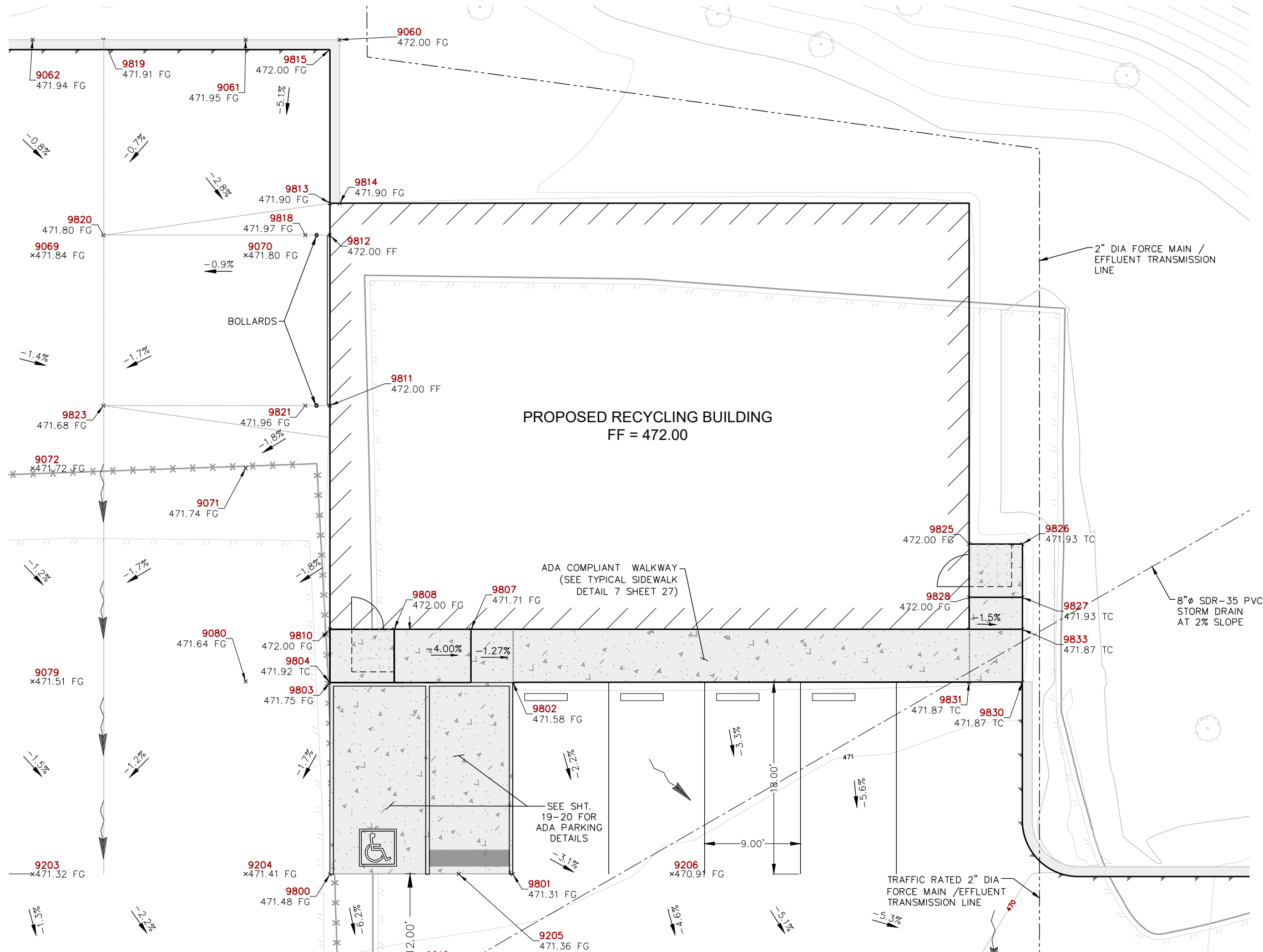
 BOLLARD

 GRADEBREAK

 EDGE OF PAVEMENT




BAR IS ONE INCH ON ORIGINAL DRAWING <div></div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 8 OF 58
	ROAD NO:	MILE POST:		DESIGNED BY: ENGR		
	PROJECT NO: 438005		DRAWN BY: PBS			
	DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS		REVIEWED BY: JAB			
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	PLOT DATE: 08/19/25		APPROVED BY: TRS	GRADING PLAN-AREA 3		



PROPOSED RECYCLING BUILDING GRADING DETAILS

PCC SECTION LIMITS

LIMITS OF 4'x4' (MIN) CLEAR WIDTH AT ADA
DOORWAY THRESHOLD, OR WHERE SHOWN.
LANDING SET TO 1.50% CROSS SLOPE (2.0%
MAX) IN ALL DIRECTIONS, TYP



SWALE FL/SURFACE
FLOW DIRECTION

X.X%

GRADE SLOPE PERCENT

• • •

BOLLARD

..... GRADEBREAK



EDGE OF PAVEMENT



BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS

PLOT DATE: 08/19/25

DESIGNED BY: ENGR

DRAWN BY:	PBS
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REVIEWED BY: JAB

APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

GRADING PLAN-AREA 4

SHEET

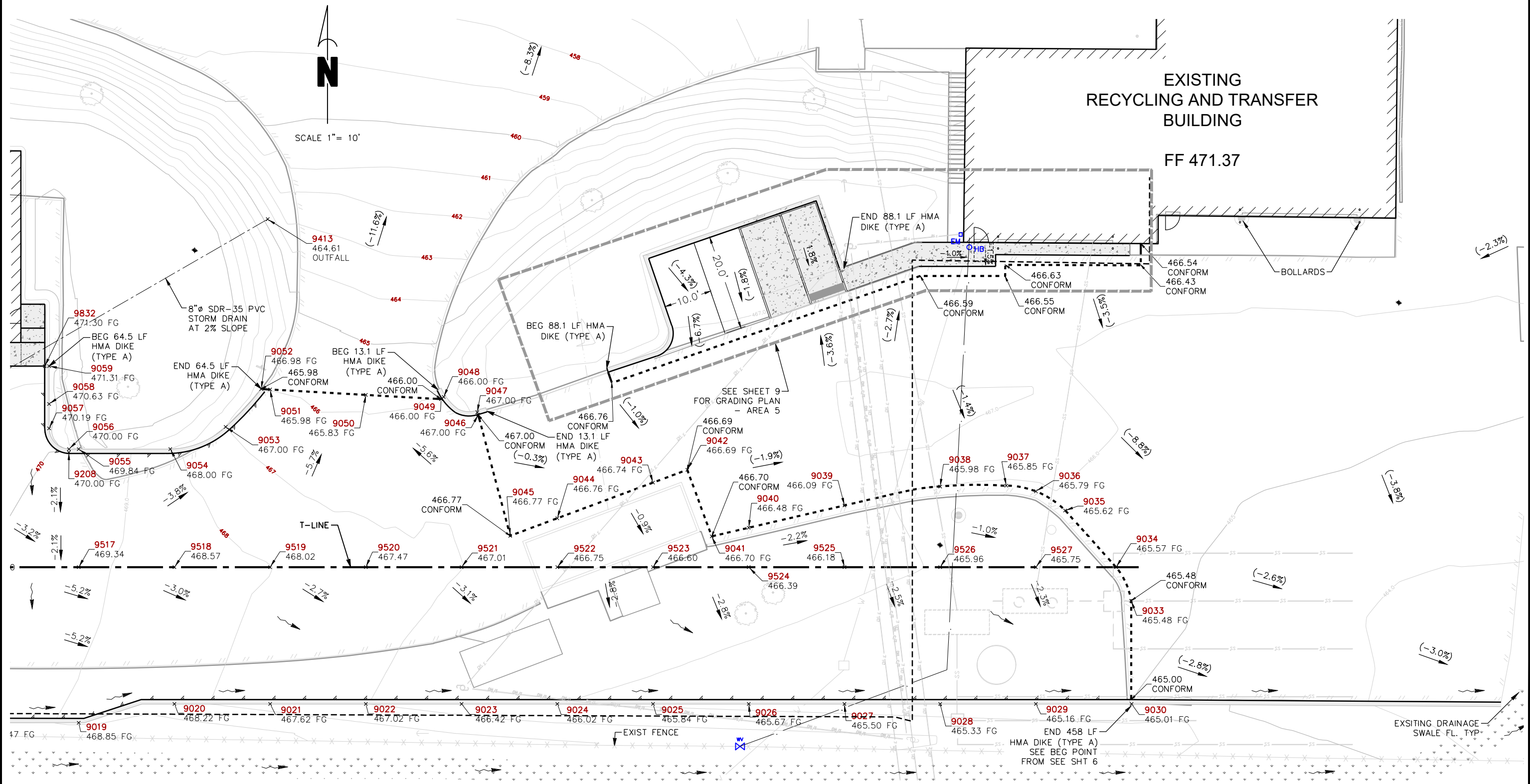
Q

3

OF

59 |

58 |



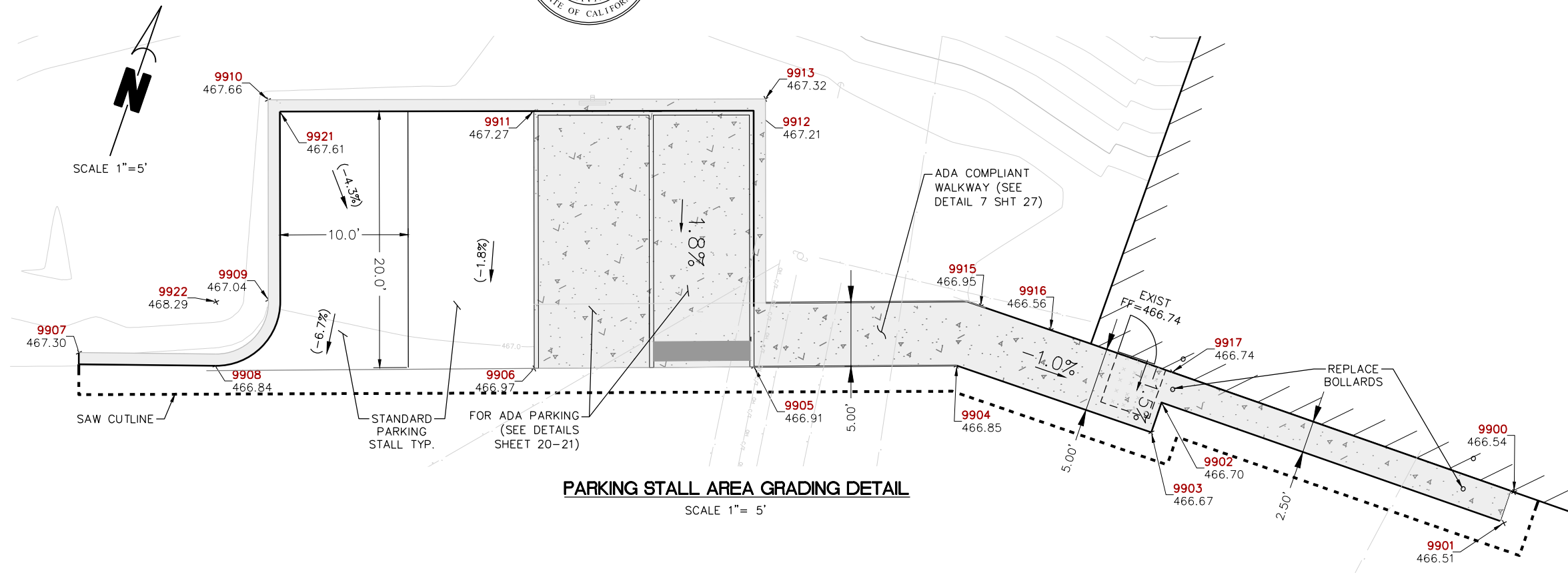
LEGEND:

- HMA SECTION LIMITS
- PCC SECTION LIMITS
- LIMITS OF 4'x4' (MIN) CLEAR WIDTH AT ADA DOORWAY THRESHOLD, OR WHERE SHOWN. LANDING SET TO 1.50% CROSS SLOPE (2.0% MAX) IN ALL DIRECTIONS, TYP
- BUILDING STRUCTURE
- SWALE FL/SURFACE FLOW DIRECTION
- GRADE SLOPE PERCENT
- BOLLARD
- GRADEBREAK
- EDGE OF PAVEMENT



ROAD NAME: CONSERVATION CAMP RD		HUMCO		COUNTY OF HUMBOLDT
ROAD NO:	MILE POST:	DESIGNED BY: ENGR	DRAWN BY: PBS	DEPARTMENT OF PUBLIC WORKS
PROJECT NO.: 438005		REVIEWED BY: JAB	APPROVED BY: TRS	REDWAY TRANSFER STATION
DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS				GRADING PLAN-AREA 5
PLOT DATE: 08/19/25				

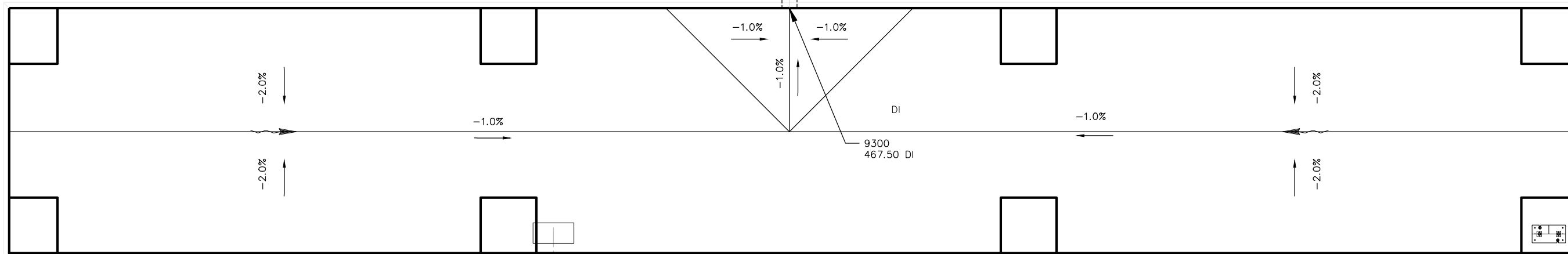
SHEET
10
OF
58



PARKING STALL AREA GRADING DETAIL

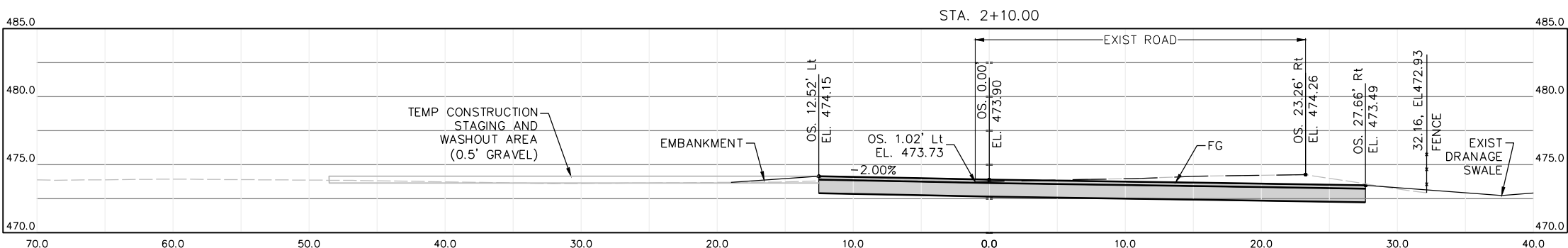
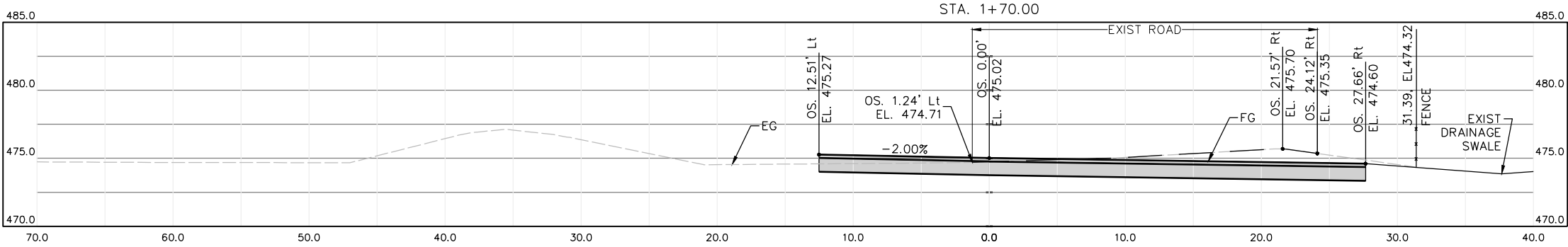
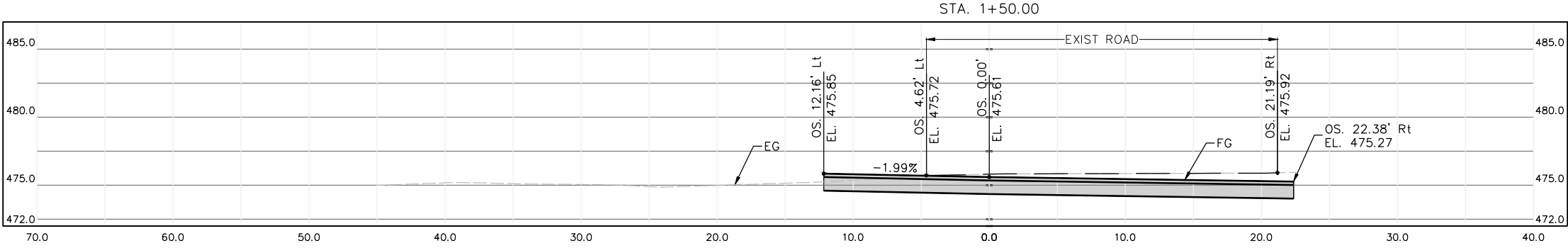
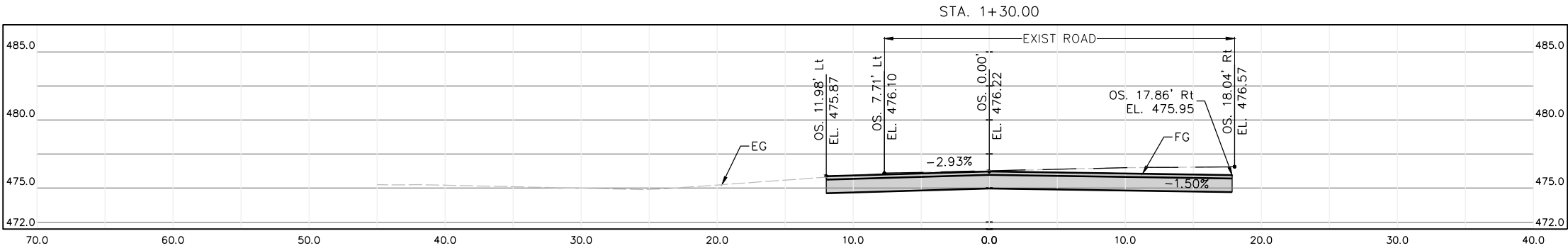
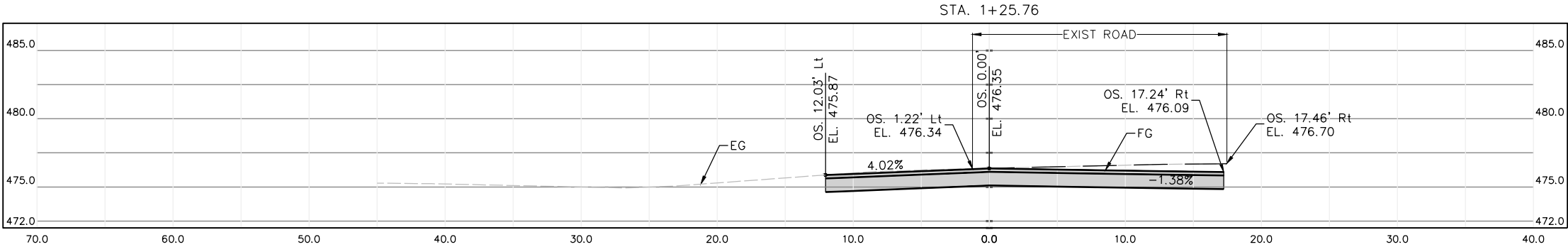
SCALE 1"= 5'

8"Ø SDR-35 PVC
STORM DRAIN
AT 2% SLOPE



WEIGH SCALE DRAINAGE GRADES

NOT TO SCALE





BAR IS ONE INCH ON ORIGINAL DRAWING

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ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME:

PLOT DATE: 08/19/25

MILE POST:

DESIGNED BY: ENGR

DRAWN BY: PBS

REVIEWED BY: JAB

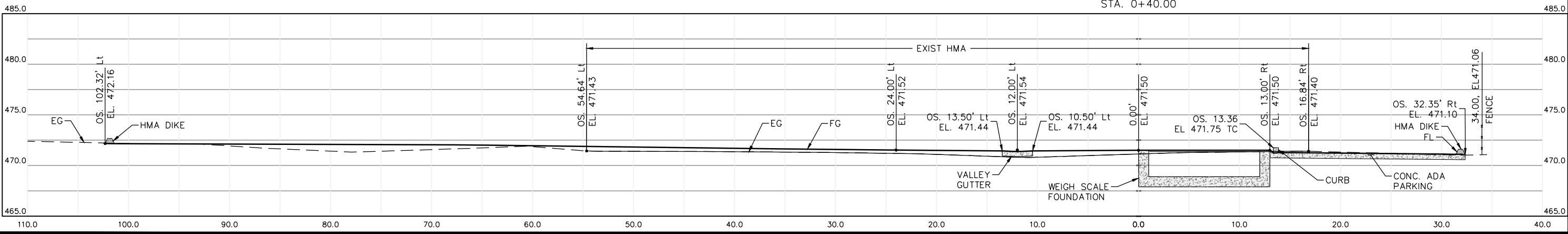
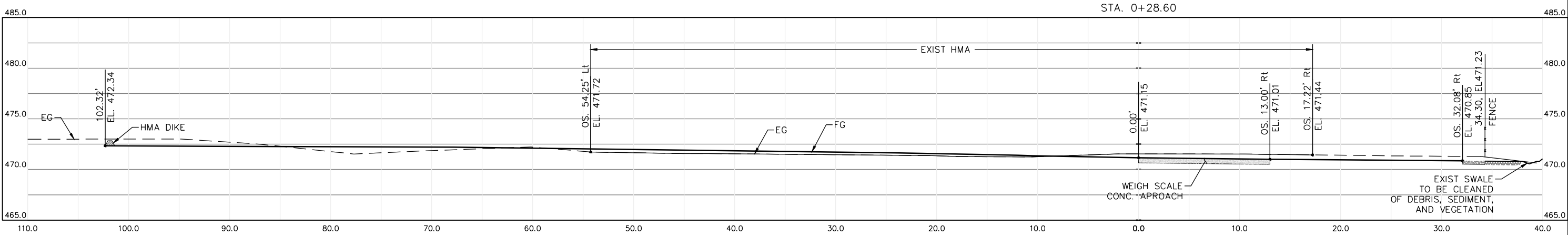
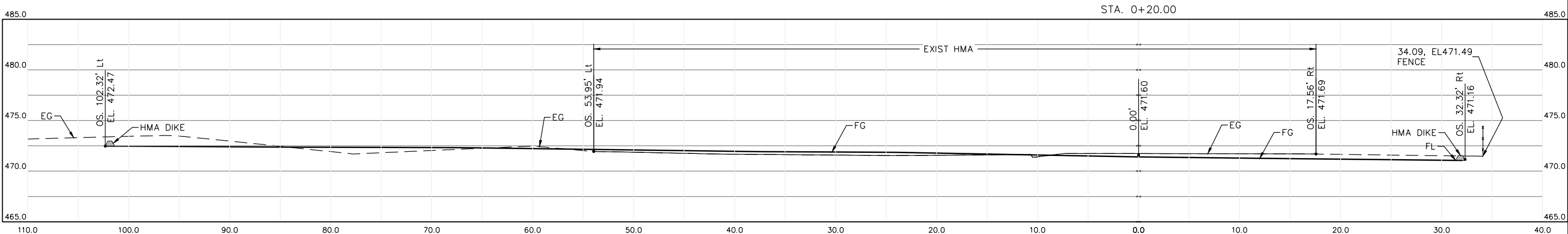
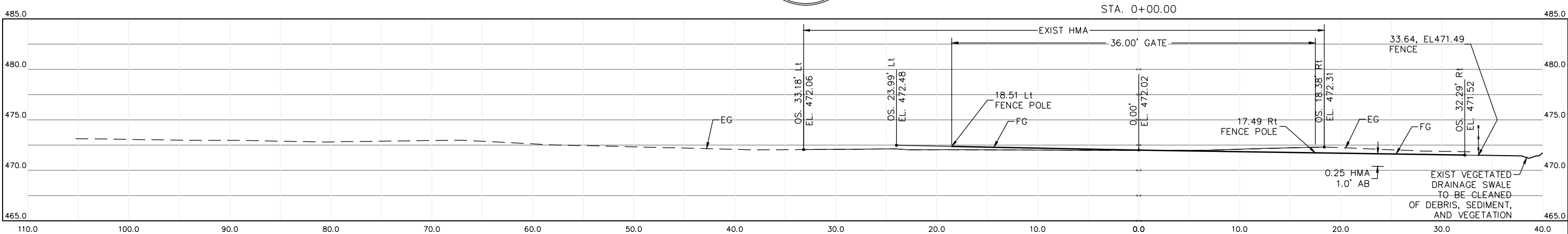
APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

**"T" LINE TRANSFER AREA
SECTIONS**

SHEET
12
OF
58





BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME:

PLOT DATE: 08/19/25

MILE POST:

DESIGNED BY: ENGR

DRAWN BY: PBS

REVIEWED BY: JAB

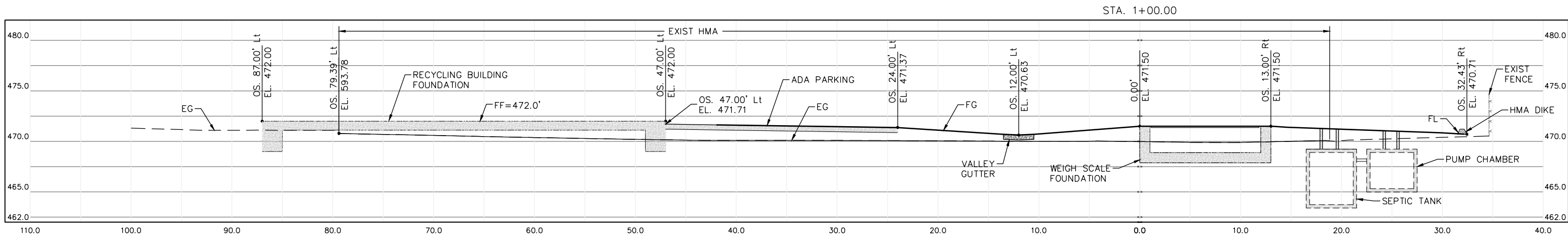
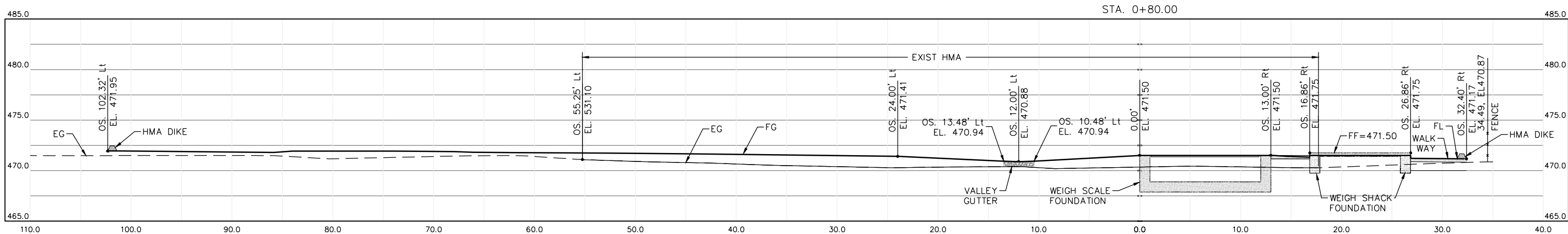
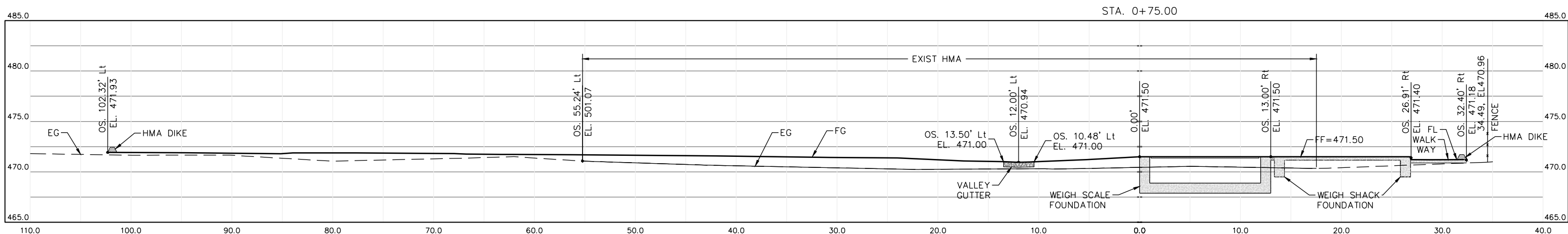
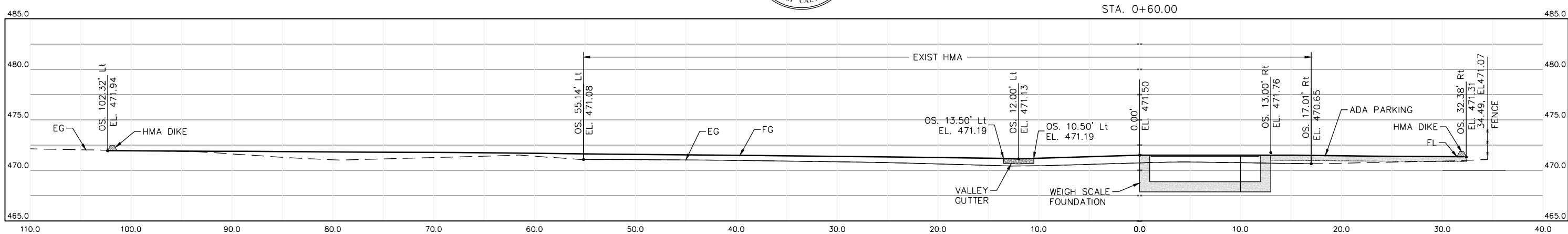
APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

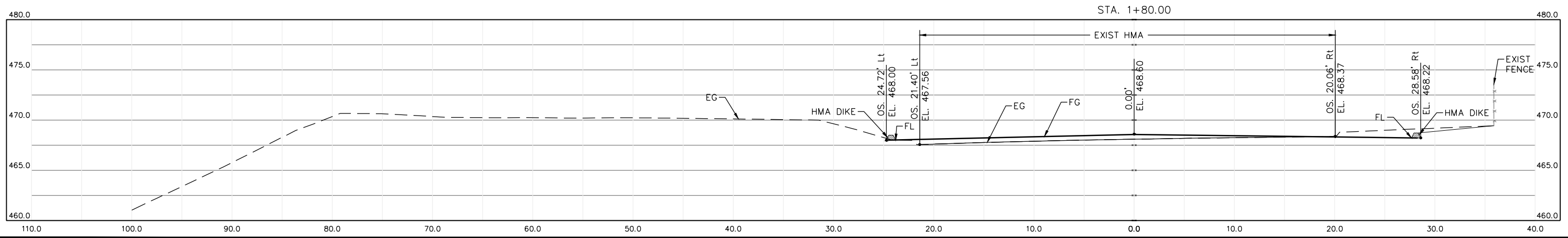
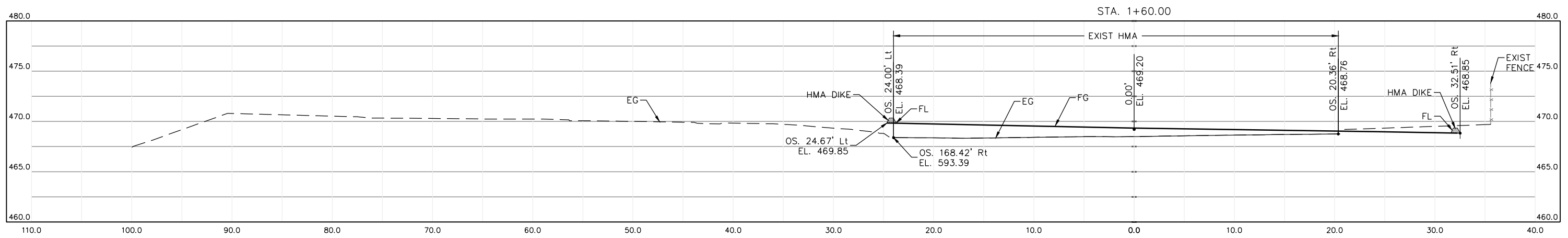
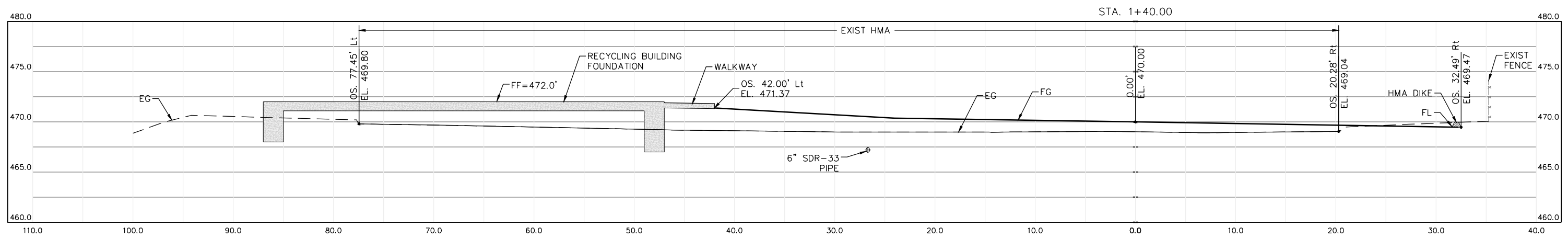
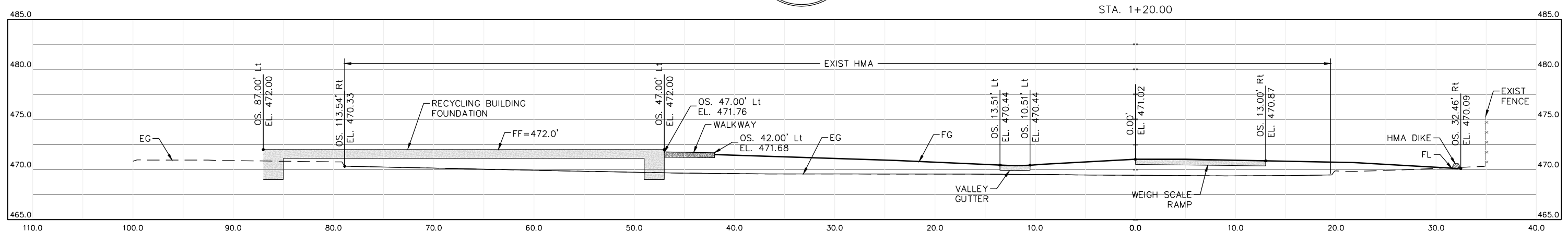
**"T" LINE TRANSFER AREA
SECTIONS**

SHEET
13
OF
58



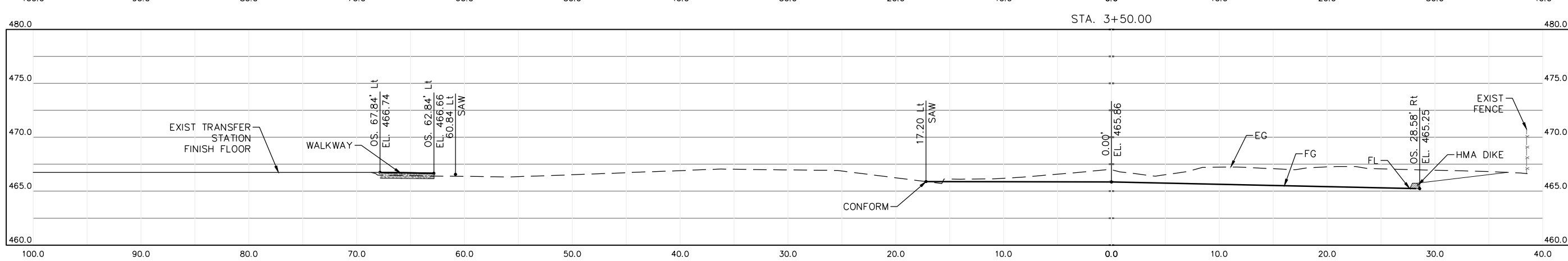
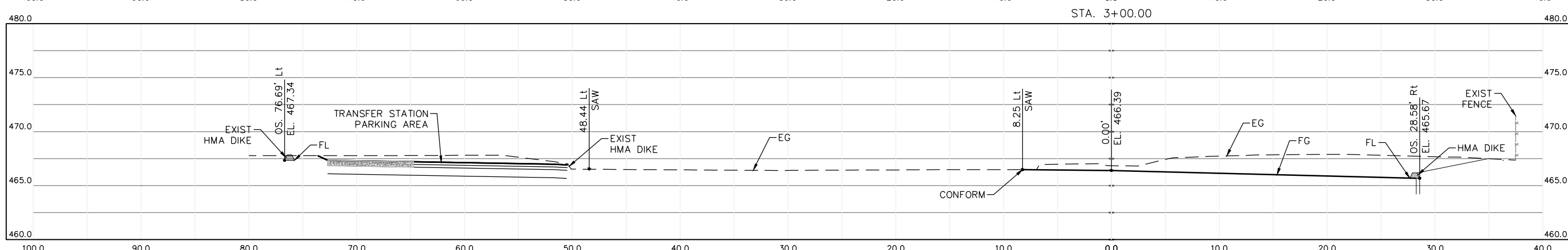
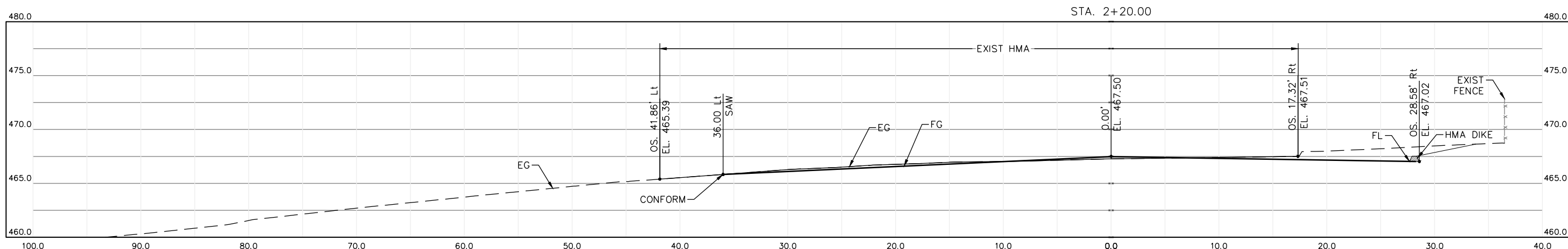
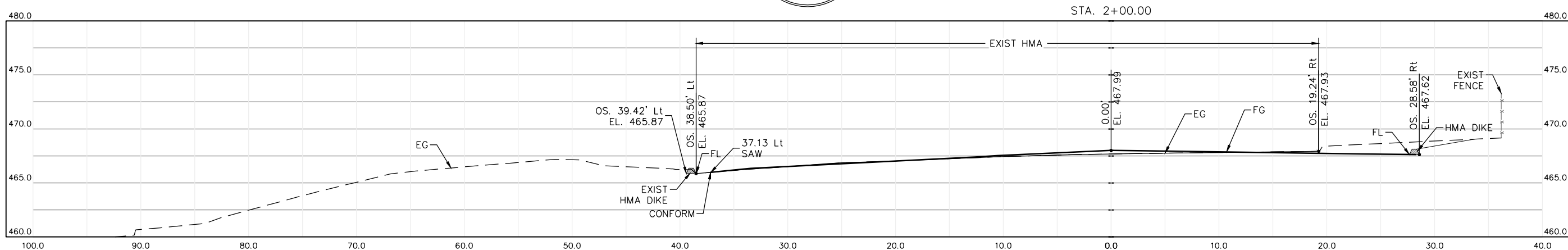


<div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 14 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DRAWN BY: PBS	"T" LINE TRANSFER AREA SECTIONS	
	DRAWING FILE NAME:		REVIEWED BY: JAB		
	PLOT DATE: 08/19/25		APPROVED BY: TRS		



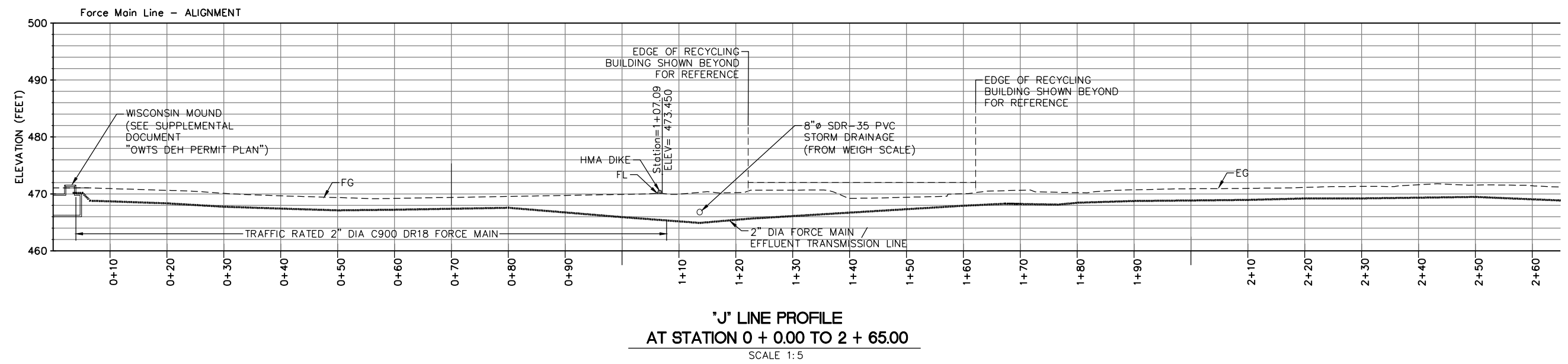


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 15 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION		
	PROJECT NO.: 438005		DRAWN BY: PBS	"T" LINE TRANSFER AREA SECTIONS		
	DRAWING FILE NAME:		REVIEWED BY: JAB			
	PLOT DATE: 08/19/25		APPROVED BY: TRS			

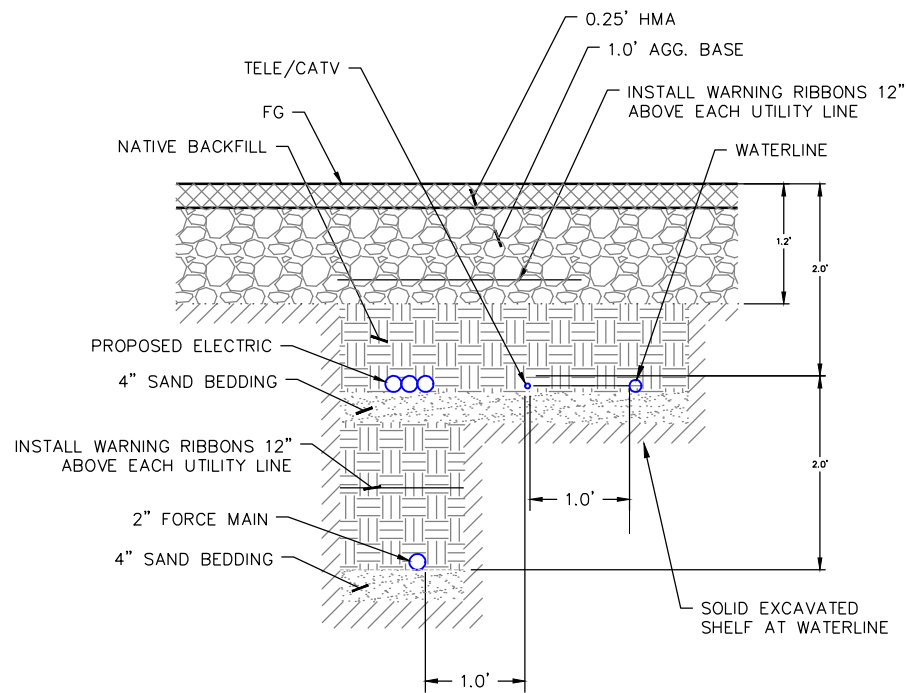




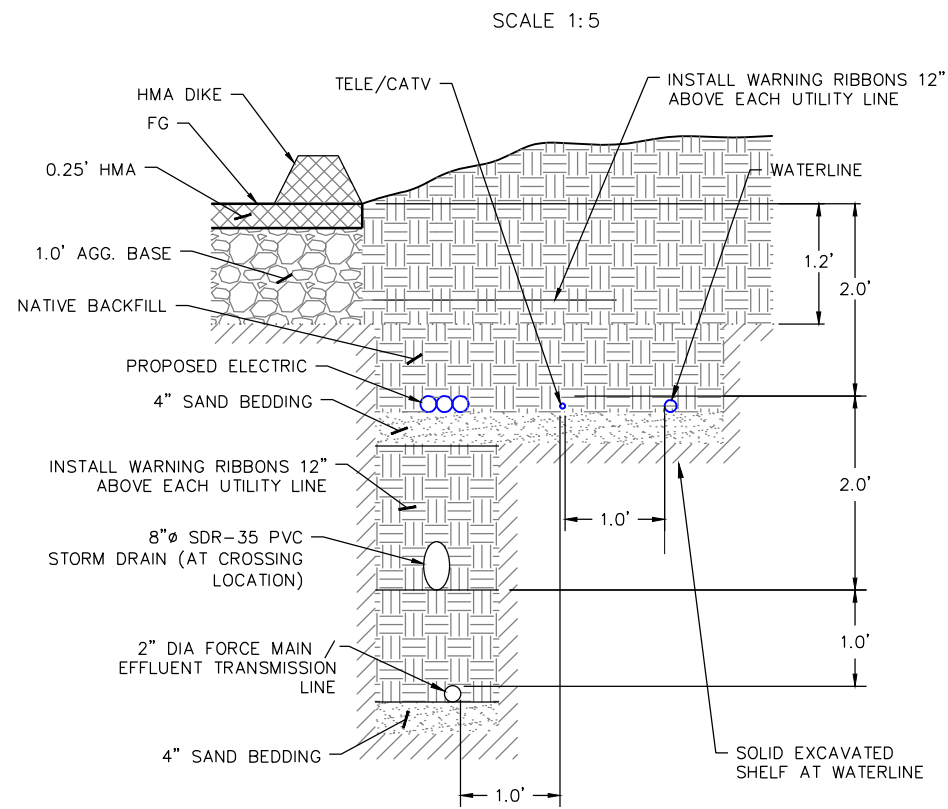
<div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 16 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DRAWN BY: PBS	"J" LINE PROFILE AND JOINT TRENCH DETAILS	
	DRAWING FILE NAME:		REVIEWED BY: JAB		
			APPROVED BY: TRS		
			PLOT DATE: 08/19/25		



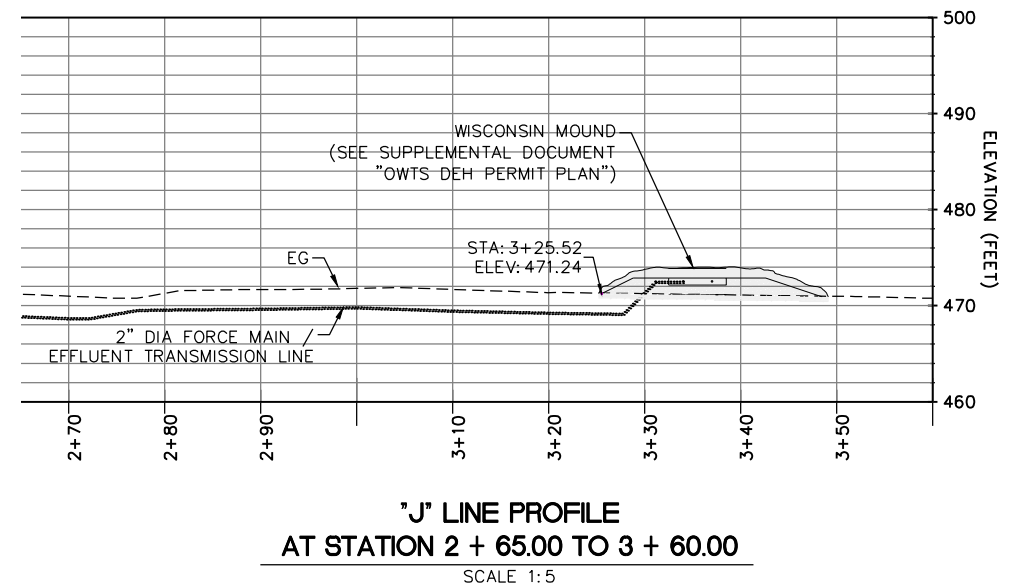
"J" LINE PROFILE
AT STATION 0 + 0.00 TO 2 + 65.00
SCALE 1:5



JOINT-SERVICE TRENCH, TYPICAL
SCALE 1:1



JOINT-SERVICE TRENCH
AT STATION 1 + 13.63
SCALE 1:1



"J" LINE PROFILE
AT STATION 2 + 65.00 TO 3 + 60.00
SCALE 1:5

SIGN SUMMARY					
SIGN CODE	QTY	SIGN MESSAGE	SOURCE	PANEL SIZE (WIDTH X HEIGHT)	NOTES
R1-1	1	"STOP"	MANUAL UNIFORM TRAFFIC CONTROL DEVICES	30" X 30"	
R5-1	2	"DO NOT ENTER"	MANUAL UNIFORM TRAFFIC CONTROL DEVICES	30" X 30"	
W13-1P	1	10 M.P.H.	MANUAL UNIFORM TRAFFIC CONTROL DEVICES	18" X 18"	
CUSTOM-1	3	"STOP"	-	24" X 24"	PORTABLE STOP SIGN
CUSTOM-2	2	"RECYCLING"	HUMBOLDT COUNTY PUBLIC WORKS		HCPW WILL SUPPLY THE SIGN
CUSTOM-3	2	"WASTE"	HUMBOLDT COUNTY PUBLIC WORKS		HCPW WILL SUPPLY THE SIGN
CUSTOM-4	3	<i>DIRECTIONAL ARROW</i>	HUMBOLDT COUNTY PUBLIC WORKS		HCPW WILL SUPPLY THE SIGN
CUSTOM-5	1	"ADA UNLOADING"	HUMBOLDT COUNTY PUBLIC WORKS		HCPW WILL SUPPLY THE SIGN

PAVEMENT MARKING WORDS AND ARROWS			
#	QTY	DESCRIPTION	SOURCE
1	7	TYPE I 10'-0" ARROW	CALTRANS STD. PLAN (A24A)
2	1	TYPE VIII (R) ARROW	CALTRANS STD. PLAN (A24A)
3	4	"STOP" MARKING	CALTRANS STD. PLAN (A24D)

(R1-1)

(R5-1)

(W13-1P)

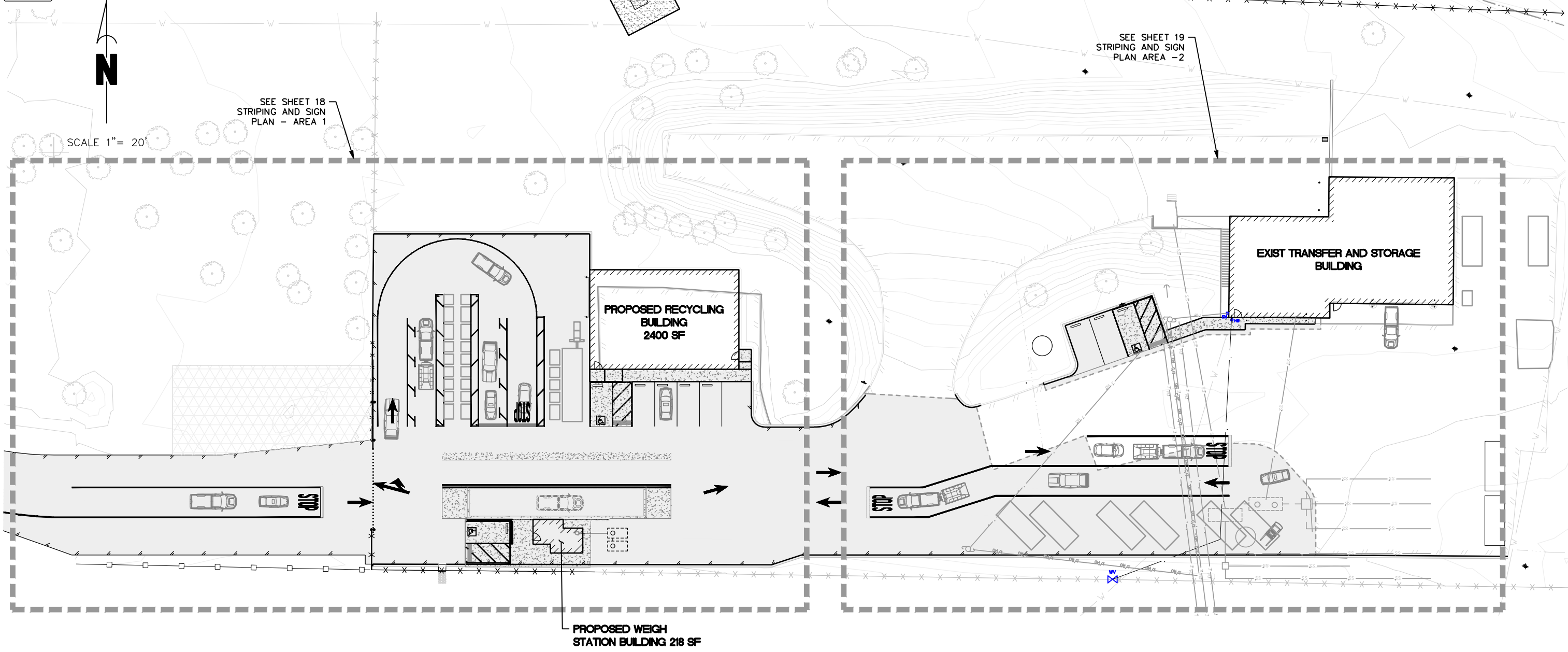
CUSTOM-2

CUSTOM-3

CUSTOM-4

CUSTOM-5

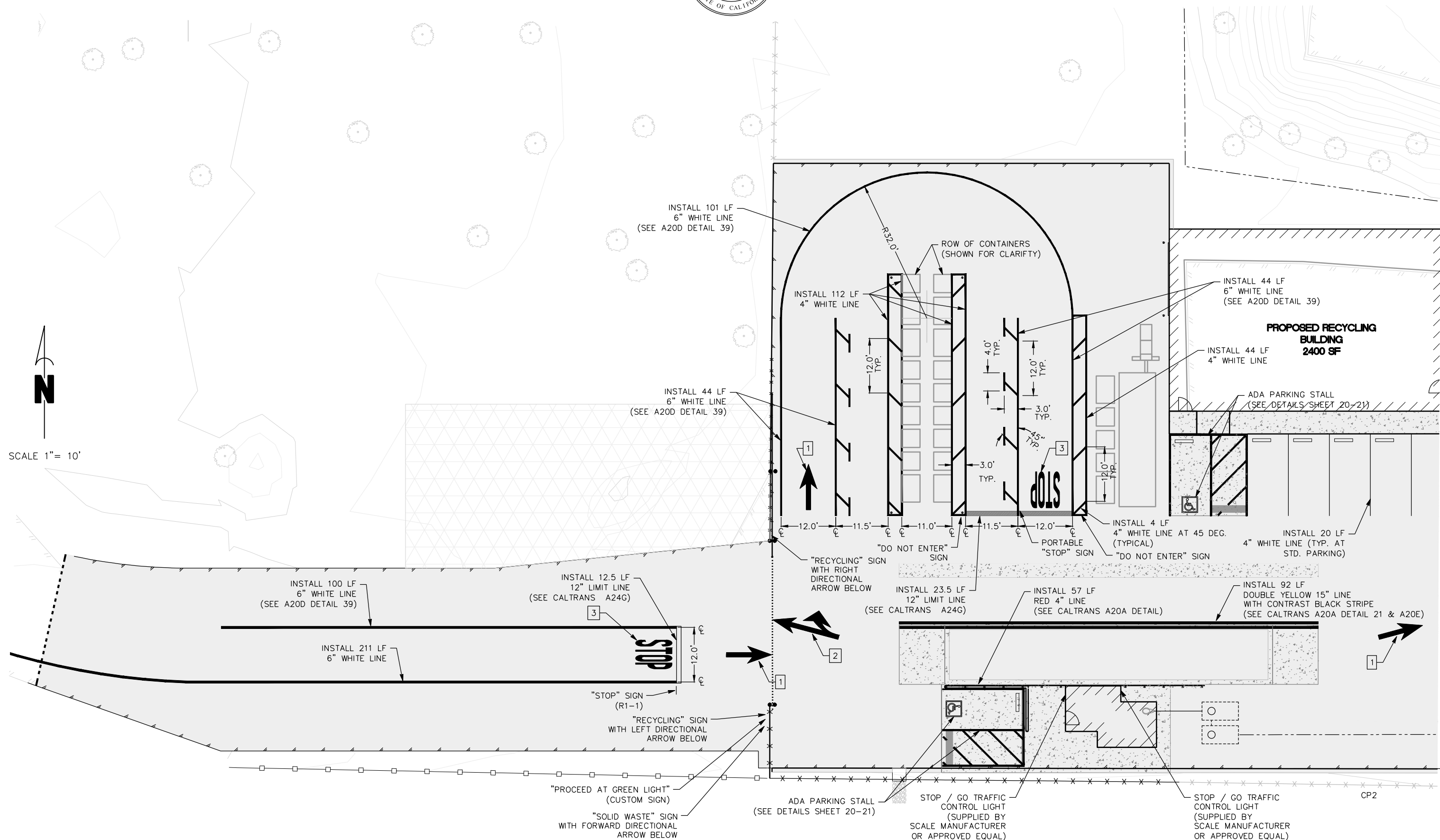
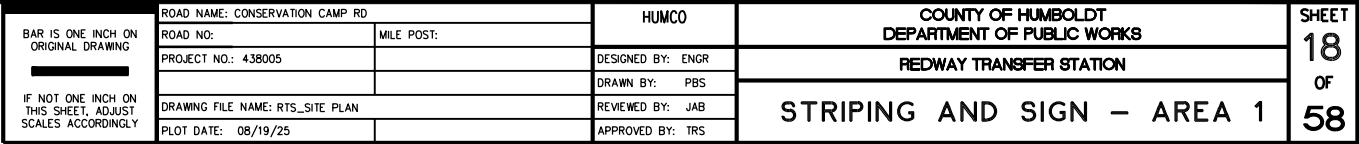
CUSTOM-1



<div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO		COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 17 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION			
	PROJECT NO.: 438005		DRAWN BY: PBS	STRIPING AND SIGN OVERVIEW			
	DRAWING FILE NAME: RTS_SITE PLAN		REVIEWED BY: JAB				
	PLOT DATE: 08/19/25		APPROVED BY: TRS				

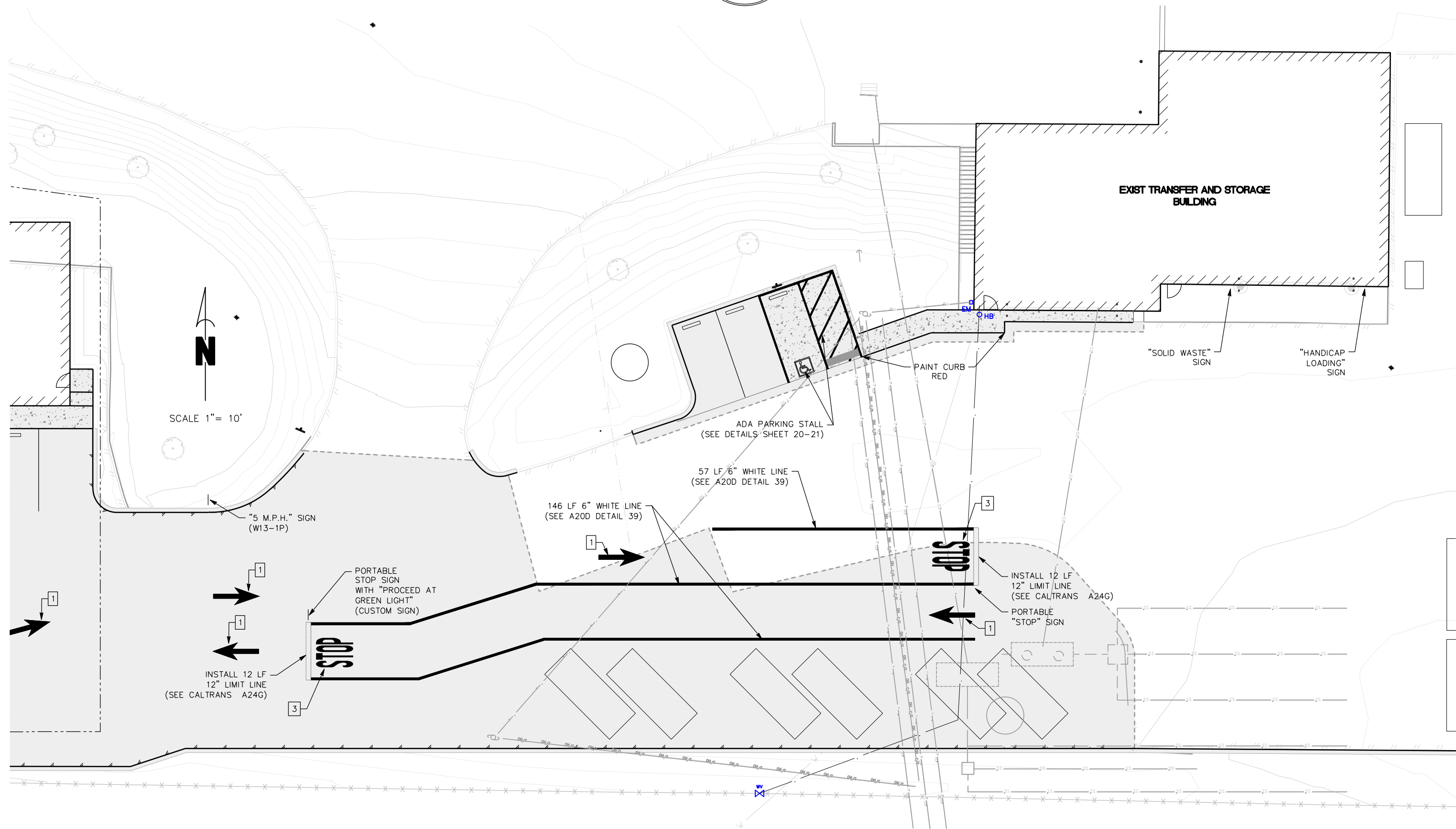
ABBREVIATION

MUTCD (MANUAL ON UNIFORM CONTROL DEVICES)
HCPW (HUMBOLDT PUBLIC WORKS)
ADA (AMERICAN DISABILITY ACT)





BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 19 OF 58
	ROAD NO:	MILE POST:		REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DESIGNED BY: ENGR		
			DRAWN BY: PBS		
	DRAWING FILE NAME: RTS_SITE PLAN		REVIEWED BY: JAB	STRIPING AND SIGN - AREA 2	
	PLOT DATE: 08/19/25		APPROVED BY: TRS		



GENERAL NOTES

ADA PARKING NOTES:

1. ACCESSIBLE PARKING SPACES SERVING A PARTICULAR BUILDING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING, ACCESSIBLE PARKING SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN ENTRANCE OF THE PARKING FACILITY.
2. ONE IN EVERY SIX ACCESSIBLE OFF-STREET PARKING STALLS, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESSIBLE AISLE OF 8'-0" MINIMUM WIDTH AND SHALL BE SIGNED VAN ACCESSIBLE OR AS ALLOWED PER 2022 CBC SECTION 11B-208.2.4. THE R7-8B SIGN SHALL BE MOUNTED BELOW THE R99B (CA) PLAQUE OR THE R99C (CA) SIGN.
3. IN EACH PARKING STALL, A CURB OR BUMPER SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED WIDTH OF WALKWAYS. PARKING STALLS SHALL BE SO LOCATED THAT PERSONS WITH DISABILITIES ARE NOT COMPELLED TO WHEEL OR WALK BEHIND PARKED CARS OTHER THAN THEIR OWN.
4. SURFACE SLOPES OF ACCESSIBLE OFF-STREET PARKING STALLS SHALL BE THE MINIMUM POSSIBLE AND SHALL NOT EXCEED 2 PERCENT IN ANY DIRECTION.
5. 2022 CBC TABLE 11B-208.2 SHALL BE USED TO DETERMINE THE REQUIRED NUMBER OF ACCESSIBLE PARKING STALLS IN EACH PARKING LOT OR GARAGE
6. WHERE PLAQUE R99B (CA), SIGN R99C (CA) OR SIGN R7-8B ARE INSTALLED, THE BOTTOM OF THE LOWER SIGN OR PLAQUE PANEL SHALL BE A MINIMUM OF 5'-0" ABOVE THE SURROUNDING SURFACE. SIGNS LOCATED IN AN ACCESSIBLE ROUTE SHALL BE 80" MIN TO THE BOTTOM OF THE SIGN.
7. THE WORDS "NO PARKING", SHALL BE PAINTED IN WHITE LETTERS NO LESS THAN 1'-0" HIGH AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS IN THE LOADING AND UNLOADING ACCESS AISLE. SEE DETAIL 3 SHEET 20.
8. A R100B (CA) SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL. THE SIGN SHALL INCLUDE THE ADDRESS WHERE THE TOWED VEHICLE MAY BE RECLAIMED AND THE TELEPHONE NUMBER OF THE LOCAL TRAFFIC LAW ENFORCEMENT AGENCY AS A PERMANENT PART OF THE SIGN. MINIMUM TEXT HEIGHT SHALL BE 1".
9. WHERE A SINGLE (NON-VAN) ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 5'-0" WIDE MINIMUM, ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE.
10. WHERE A VAN ACCESSIBLE PARKING SPACE IS PROVIDED, THE LOADING AND UNLOADING ACCESS AISLE SHALL BE 8'-0" WIDE MINIMUM, AND SHALL BE ON THE PASSENGER SIDE OF THE VEHICLE AS THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE. THESE SPACES REQUIRE SIGN R7-8B IN ADDITION TO THE SIGNAGE
11. THE ACCESSIBLE PARKING ONLY SIGN SHALL BE SIGN R99C (CA) OR SIGN R99 (CA) WITH PLAQUE R99B (CA). MINIMUM TEXT HEIGHT SHALL BE 1".
12. ALL ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND VEHICULAR ROUTES SERVING THEM SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98".

ACCESSIBLE ROUTE WALKING SURFACE NOTES:

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
2. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.
3. CHANGES IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MINIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.
4. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED AND SHALL COMPLY WITH RAMP DETAILS AND NOTES.
5. ABRUPT CHANGES IN LEVEL EXCEEDING 4 INCHES IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE. EXCEPTIONS: A WARNING CURB IS NOT REQUIRED BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY. A WARNING CURB IS NOT REQUIRED WHEN A GUARD OR HANDRAIL IS PROVIDED WITH A GUIDE RAIL CENTERED 2 INCHES MINIMUM AND 4 INCHES MAXIMUM ABOVE THE SURFACE OF THE WALK OR SIDEWALK.
6. SLOPE: THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2%). EXCEPTION: THE RUNNING SLOPE OF SIDEWALKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY.
7. CLEAR WIDTH: THE CLEAR WIDTH OF INTERIOR WALKING SURFACES SHALL BE 36 INCHES MINIMUM (48" MINIMUM OUTSIDE). EXCEPTIONS: WITHIN EMPLOYEE WORK AREAS, CLEARANCES ON COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCHES WIDE MINIMUM.
8. PASSING SPACES: AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAXIMUM. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MINIMUM BY 60 INCHES MINIMUM; OR AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T- SHAPED SPACE WHERE THE BASE AND ARMS OF THE T-SHAPED SPACE EXTEND 48 INCHES MINIMUM BEYOND THE INTERSECTION.
9. CONTINUOUS GRADIENT: ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS, 60 INCHES IN LENGTH, AT INTERVALS OF 400 FEET MAXIMUM. THE RESTING AREA SHALL BE AT LEAST AS WIDE AS THE WALK. THE SLOPE OF THE RESTING AREA IN ALL DIRECTIONS SHALL BE 1:48 (2%) MAXIMUM.

ACCESSIBLE PATH OF TRAVEL NOTES:

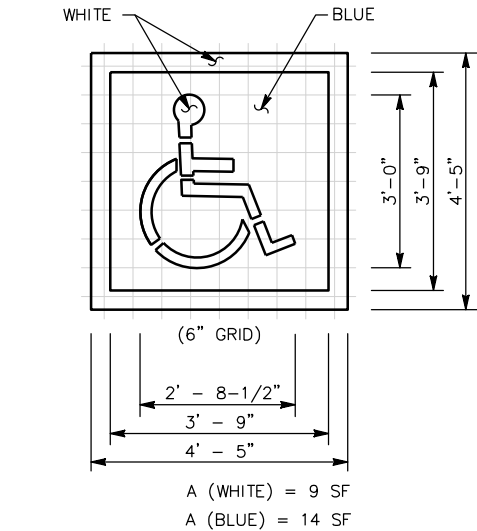
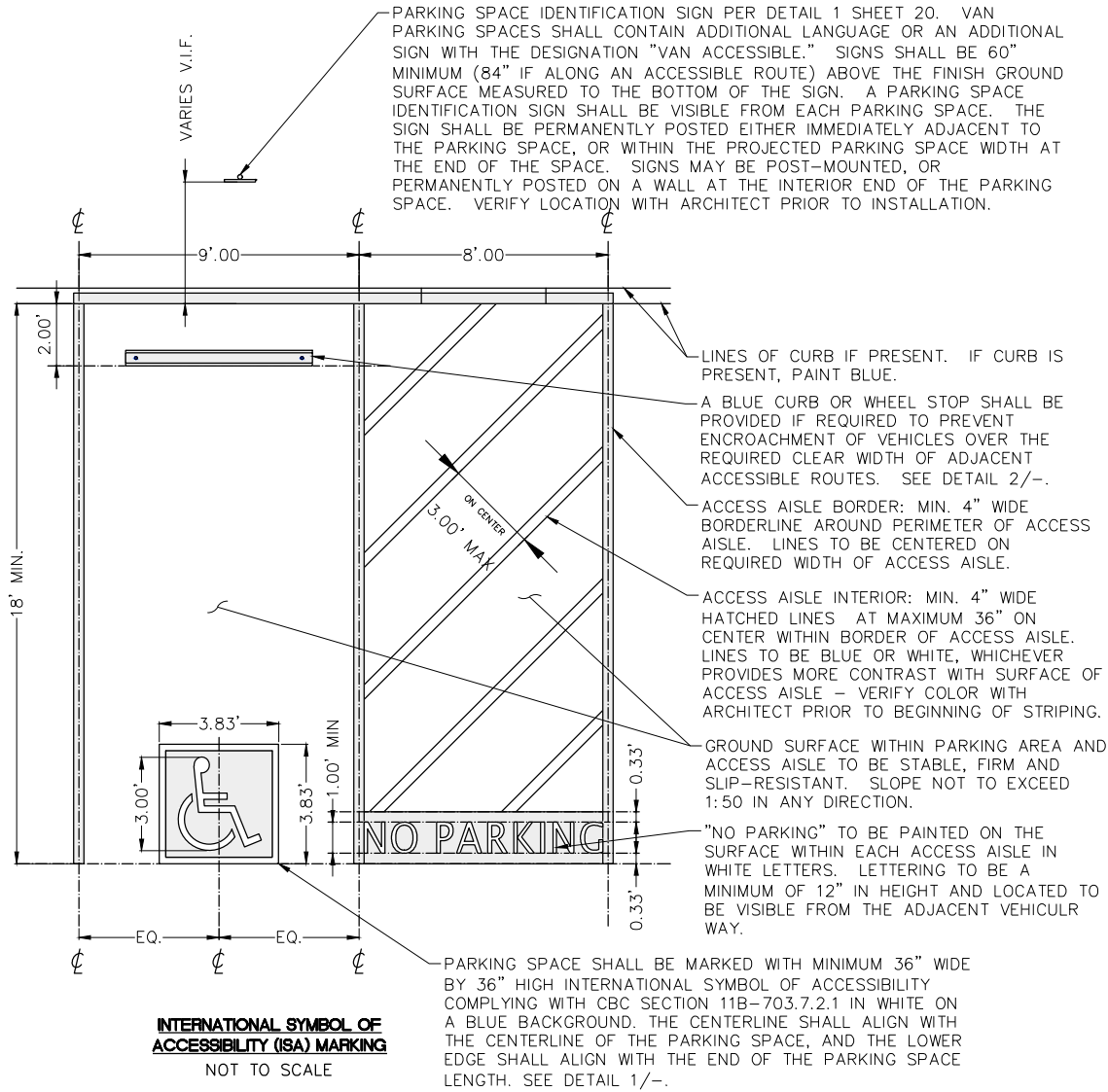
1. SITE ARRIVAL POINTS: AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER DROP-OFF AND LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES MUST BE ACCESSIBLE. EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN SITE ARRIVAL POINTS AND THE BUILDING OR FACILITY ENTRANCE IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS.
2. WITHIN A SITE: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. EXCEPTION: AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED BETWEEN ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES IF THE ONLY MEANS OF ACCESS BETWEEN THEM IS A VEHICULAR WAY NOT PROVIDING PEDESTRIAN ACCESS.
3. SPACES AND ELEMENTS: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY, INCLUDING MEZZANINES.

ADA ENTRANCE NOTES:

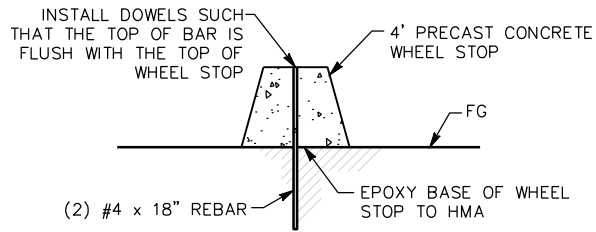
1. WHEN SIGNS IDENTIFY, DIRECT, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURES OF A BUILDING OR SITE, THEY SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. ACCESSIBLE BUILDING ENTRANCES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS AS NEEDED TO IDENTIFY ACCESSIBLE FACILITIES AND PATHS OF TRAVEL.



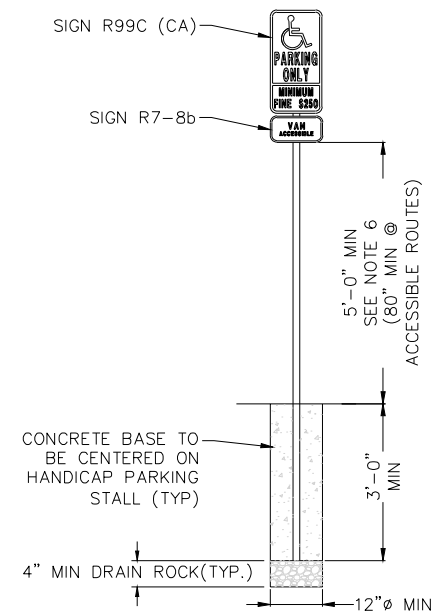
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 20 OF 58
	ROAD NO:	MILE POST:		REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DESIGNED BY: ENGR		
			DRAWN BY: PBS		
	DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS		REVIEWED BY: JAB	ADA CONSTRUCTION DETAILS	
PLOT DATE: 08/19/25		APPROVED BY: TRS			



1 INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING
NOT TO SCALE



2 CONCRETE WHEEL STOP
NOT TO SCALE



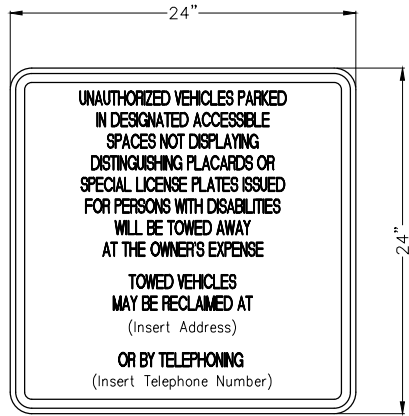
① **ADA SIGN POLE DETAIL**
NOT TO SCALE



SIGN R99C (CA)
(SEE ADA PARKING NOTES 6 & 7
SHEET 20)



SIGN R7-8b
(SEE ADA PARKING NOTES 2 & 7
SHEET 20)



SIGN R7-8b
(SEE ADA PARKING NOTES 8
SHEET 20)

② **OFF-STREET PARKING SIGNS**
NOT TO SCALE

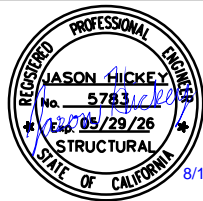


(6" GRID)
A (WHITE) = 2 SF

③ **LOADING + UNLOADING AREA
PAVEMENT MARKING LEGEND**
NOT TO SCALE



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 21 OF 58
	ROAD NO:	MILE POST:		REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DESIGNED BY: ENGR		
			DRAWN BY: PBS		
	DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS		REVIEWED BY: JAB	ADA CONSTRUCTION DETAILS	
	PLOT DATE: 08/19/25		APPROVED BY: TRS		



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

8/19/25

ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS

PLOT DATE: 08/19/2025

MILE POST:

HUMCO

DESIGNED BY: ENGR

DRAWN BY: PBS

REVIEWED BY: JAB

APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

MANUFACTURES WEIGH SCALE
FOUNDATION PLAN

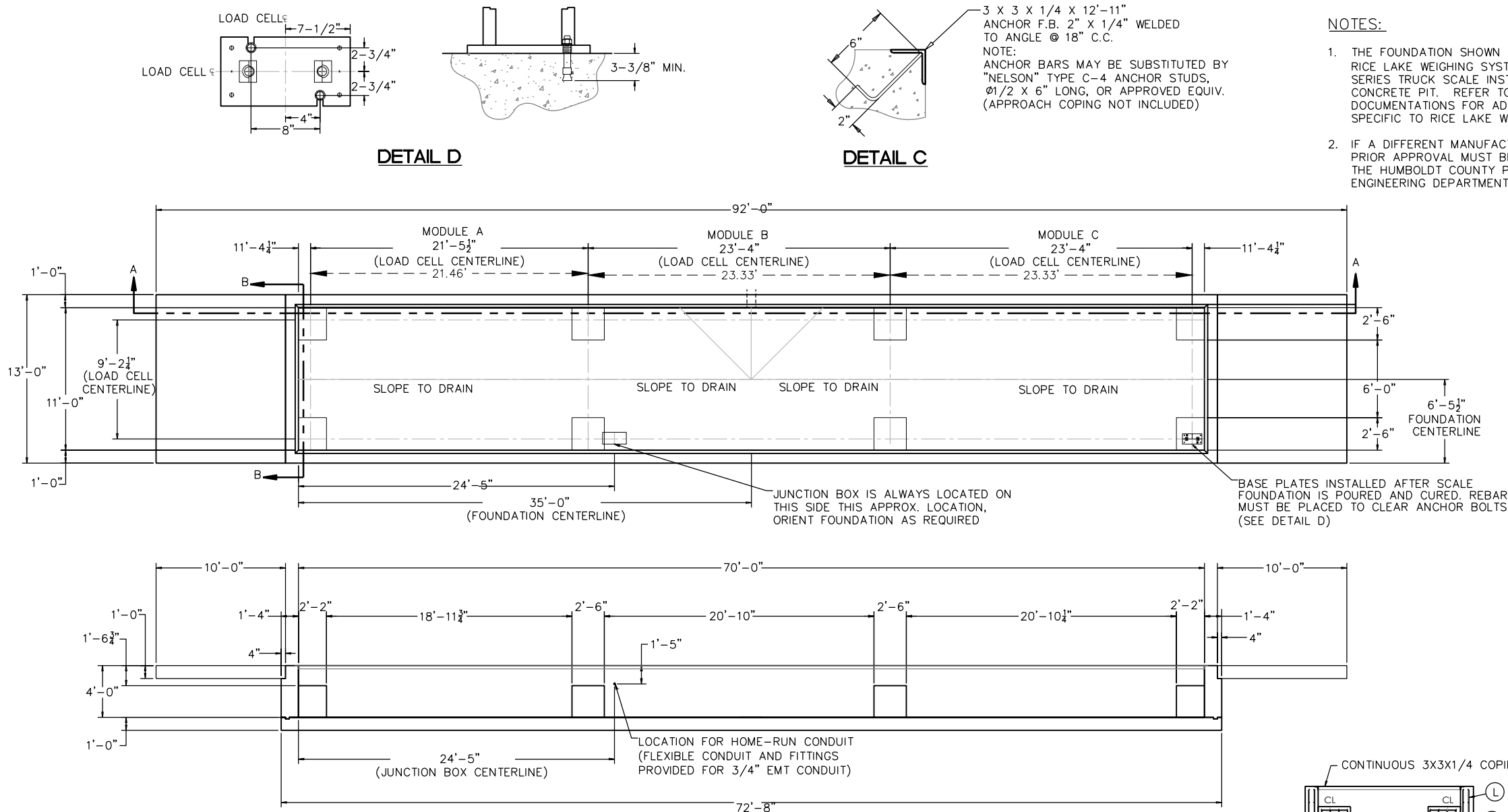
SHEET

22

OF

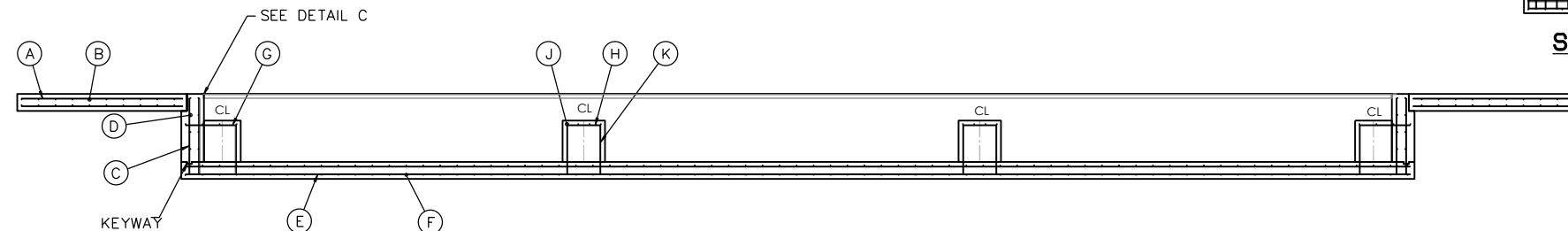
58

MATERIAL REQUIREMENTS					
REBAR SCHEDULE					
BAR NO.	QUANTITY	LENGTH (IN.)	DESCRIPTION	WEIGHT	
A	52	134	# 5 @ 12 O.C.	515	
B	40	150	# 5 @ 12 O.C.	522	
C	52	52	# 5 @ 12 O.C.	235	
D	20	150	# 5 @ 12 O.C.	261	
E	25	866	# 5 @ 12 O.C.	2957	
F	146	150	# 5 @ 12 O.C.	1903	
G	15	32	# 5 @ 8 O.C.	45	
H	15	24	# 5 @ 8 O.C.	33	
J	32	24	# 5 @ 8 O.C.	67	
K	48	35	# 5 @ 8 O.C.	146	
L	140	52	# 5 @ 12 O.C.	633	
M	20	834	# 5 @ 12 O.C.	1490	
TOTAL WEIGHT OF REBAR (LBS.)				7766	
TOTAL LENGTH OF REBAR (FT.)				7446	
CONCRETE SCHEDULE					
				VOLUME (CUBIC YARDS)	
APPROACHES				9.7	
FLOOR				34.8	
PIERS				4.2	
WALLS				25.6	
TOTAL				74.2	
MISC. STEEL					
PIT COPING	3 X 3 X 1/4	155 LN. FT.	809 LBS		



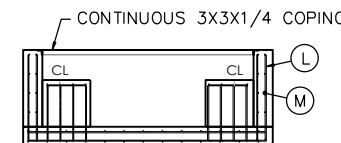
NOTES:

- CONCRETE: $f'_c = 3500$ PSI @ 28 DAYS.
- REINFORCING STEEL: DEFORMED BARS ASTM A615 GRADE 60.
- STATE AND LOCAL AGENCIES MAY HAVE VARIOUS REQUIREMENTS FOR APPROACH RAMP LENGTH, PITCH, AND FOR CLEAN OUT HEIGHT. PLEASE CHECK WITH ALL AGENCIES PRIOR TO CONSTRUCTION.
- MONOLITHIC POUR OF SLAB AND PIERS IS ALLOWED AT CONTRACTOR'S DISCRETION.
- DEVELOP AND MAINTAIN SITE GRADES WHICH WILL RAPIDLY DRAIN SURFACE AND ROOF RUN-OFF AWAY FROM FOUNDATION.
- FOOTINGS HAVE BEEN DESIGNED FOR A MINIMUM SOIL PRESSURE OF 3000 PSF, IT WILL BE THE RESPONSIBILITY OF OTHERS TO VERIFY THIS VALUE.
- WHERE REINFORCING BARS ARE SHOWN CONTINUOUS, LAP SPLICE BARS 40 DIAMETERS.
- APPROACHES TO BE A COMMON PLANE WITHIN 1/4".
- IF FROST CAN PENETRATE BELOW FOUNDATION, AT LEAST 18 INCHES OF WELL DRAINED, COMPACTED BASE MATERIAL MUST BE PROVIDED UNDER FOUNDATION

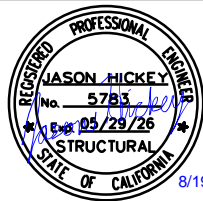


SECTION A-A

SCALE: 1"=20' (H) 1"=10' (V)

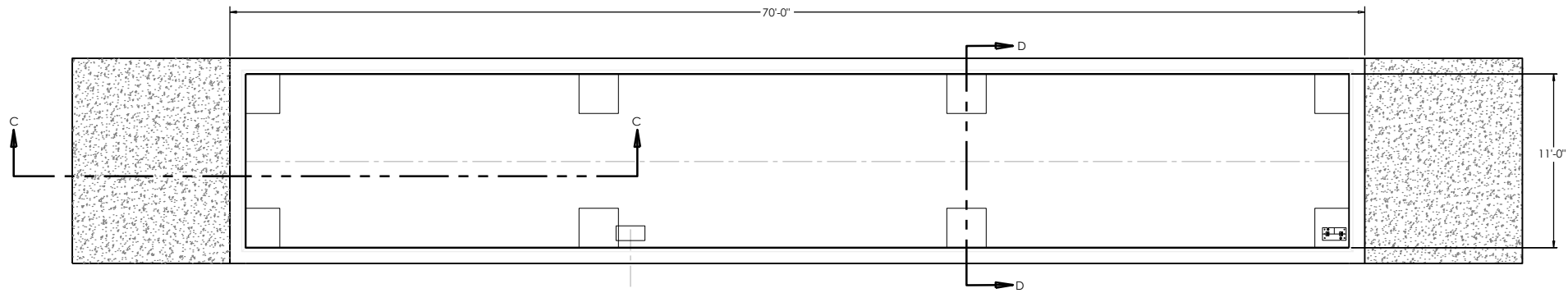


SECTION B-B

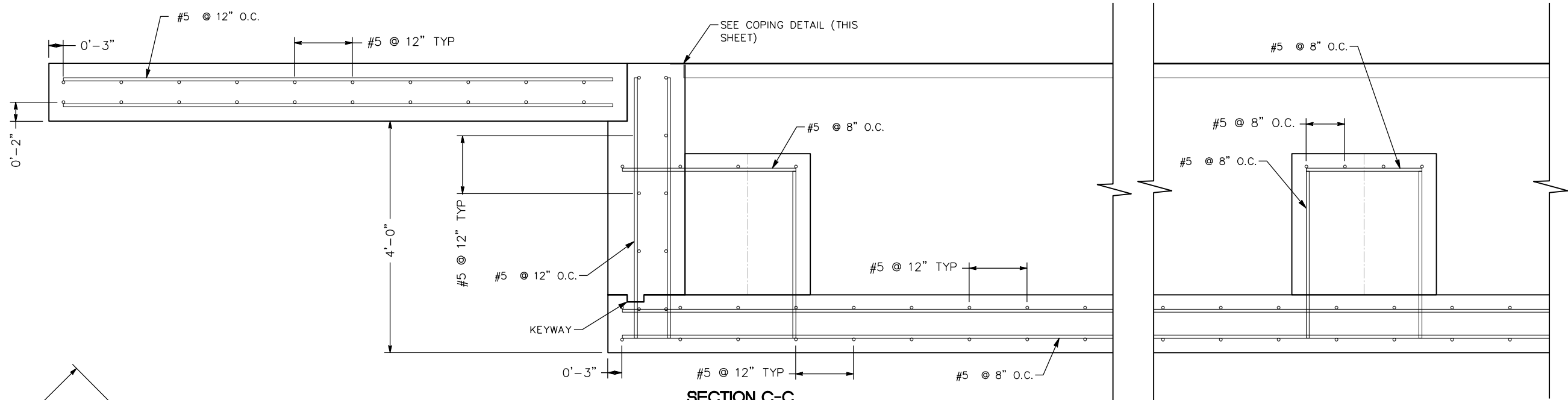


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT
	ROAD NO:	MILE POST:		DEPARTMENT OF PUBLIC WORKS
	PROJECT NO.: 438005		DESIGNED BY: ENGR	REDWAY TRANSFER STATION
	DRAWING FILE NAME: RTS_CONSTRUCTION DETAILS		DRAWN BY: PBS	MANUFACTURES WEIGH SCALE
PLOT DATE: 08/19/2025		REVISION DATE:	REVIEWED BY: JAB	FOUNDATION PLAN
			APPROVED BY: TRS	

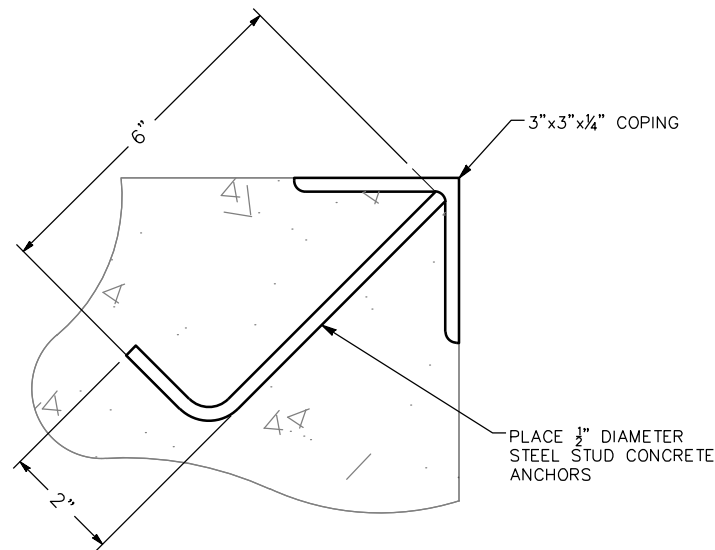
SHEET
23
OF
58



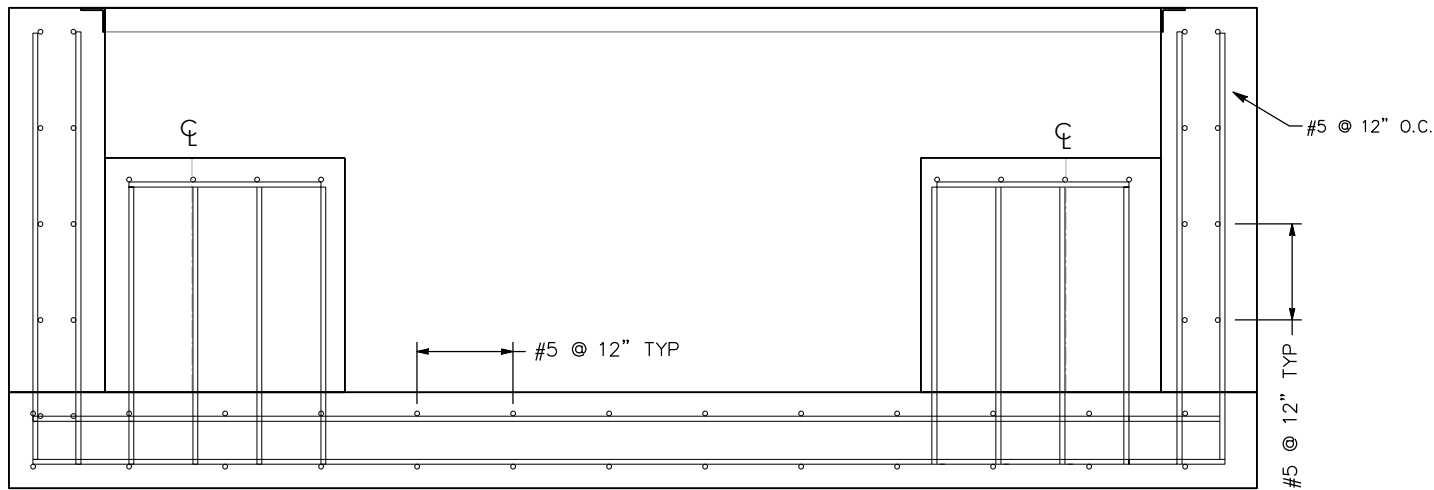
TRUCK SCALE PLAN VIEW
SCALE: 1"=5'



SECTION C-C
NOT TO SCALE



DETAIL A
NOT TO SCALE



SECTION D-D
NOT TO SCALE

GENERAL NOTES:

- GENERAL
 - ALL WORK SHALL COMPLY WITH LOCAL CODES, CALTRANS 2024 STANDARDS AND SPECIFICATION, AND APPLICABLE ASTM STANDARDS.
 - FENCE INSTALLATION TO BE COMPLETED PER MANUFACTURER'S RECOMMENDATIONS AND STANDARD INDUSTRY PRACTICES.
 - CONTRACTOR TO VERIFY ALL FENCE LOCATIONS AND PROPERTY BOUNDARIES PRIOR TO INSTALLATION.
- ANY DISCREPANCIES SHALL BE REPORTED TO THE RESIDENT ENGINEER.

GATE NOTES:

- FRAME MATERIAL GRADE AS PER WRITTEN SPECIFICATIONS. PIPE SECTIONS FOR POSTS, BRACES, AND GATES SHALL BE SCHEDULE 40 GALVANIZED PIPE.
- ALL MATERIAL SHOWN SHALL BE NEW GALVANIZED STEEL UNLESS OTHERWISE NOTED.
- GATE DIMENSIONS AND POST LOCATIONS ARE NOMINAL AND ARE TO BE FIELD VERIFIED PRIOR TO INSTALLATION.
- SECURITY GATE, AND ALL NEW LENGTH OF FENCE, SHALL INCLUDE 3 STRANDS OF BARBED WIRE ON TOP.
- GALVANIZED BOLTS AND NUTS FOR ATTACHING BRACES AND STRAPS TO GALVANIZED DEVICES FOR HOLDING BARBED WIRE IN PLACE MUST BE COMMERCIAL QUALITY.
- CHAIN LINK GATE FRAMES SHALL BE A MINIMUM OF 1-7/8" PIPE WEIGHING 2.72 LBS/FT. MATERIAL AND CONSTRUCTION SHALL MEET CALTRANS 2024 STANDARD PLAN A85A AND A86, AT A MINIMUM, OR APPROVED EQUAL.



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ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME: RTS_DETAILS AND CROSS SECTIONS

PLOT DATE: 08/19/25

MILE POST:

HUMCO

DESIGNED BY: ENGR

DRAWN BY: PBS

REVIEWED BY: JAB

APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

CONSTRUCTION DETAILS

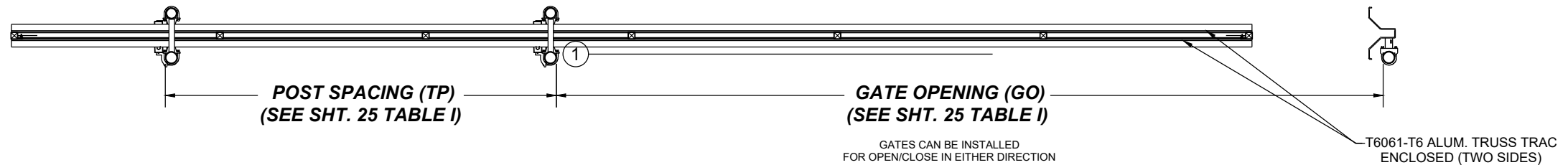
SHEET

24

OF

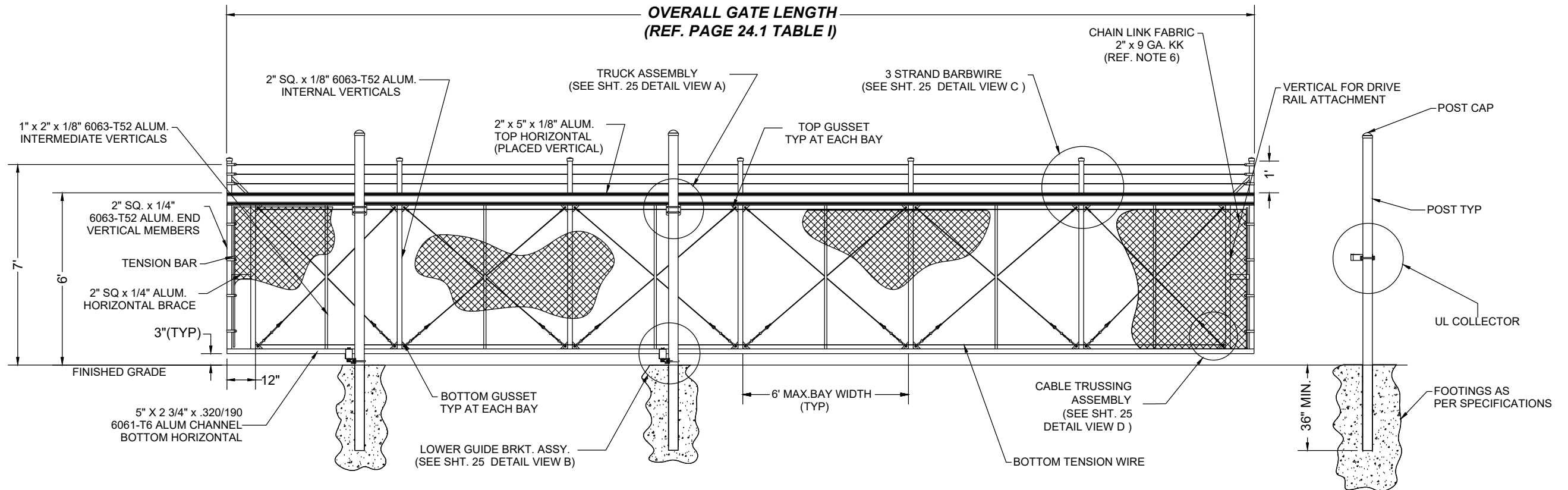
58

GATE PLAN



NOT TO SCALE

OVERALL GATE LENGTH
(REF. PAGE 24.1 TABLE I)



1

GATE ELEVATION

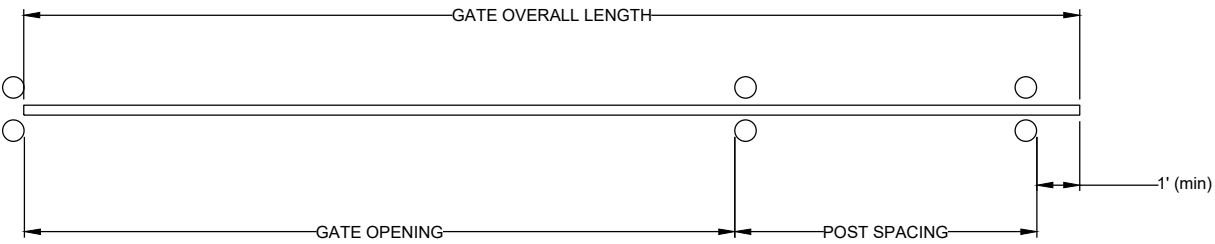
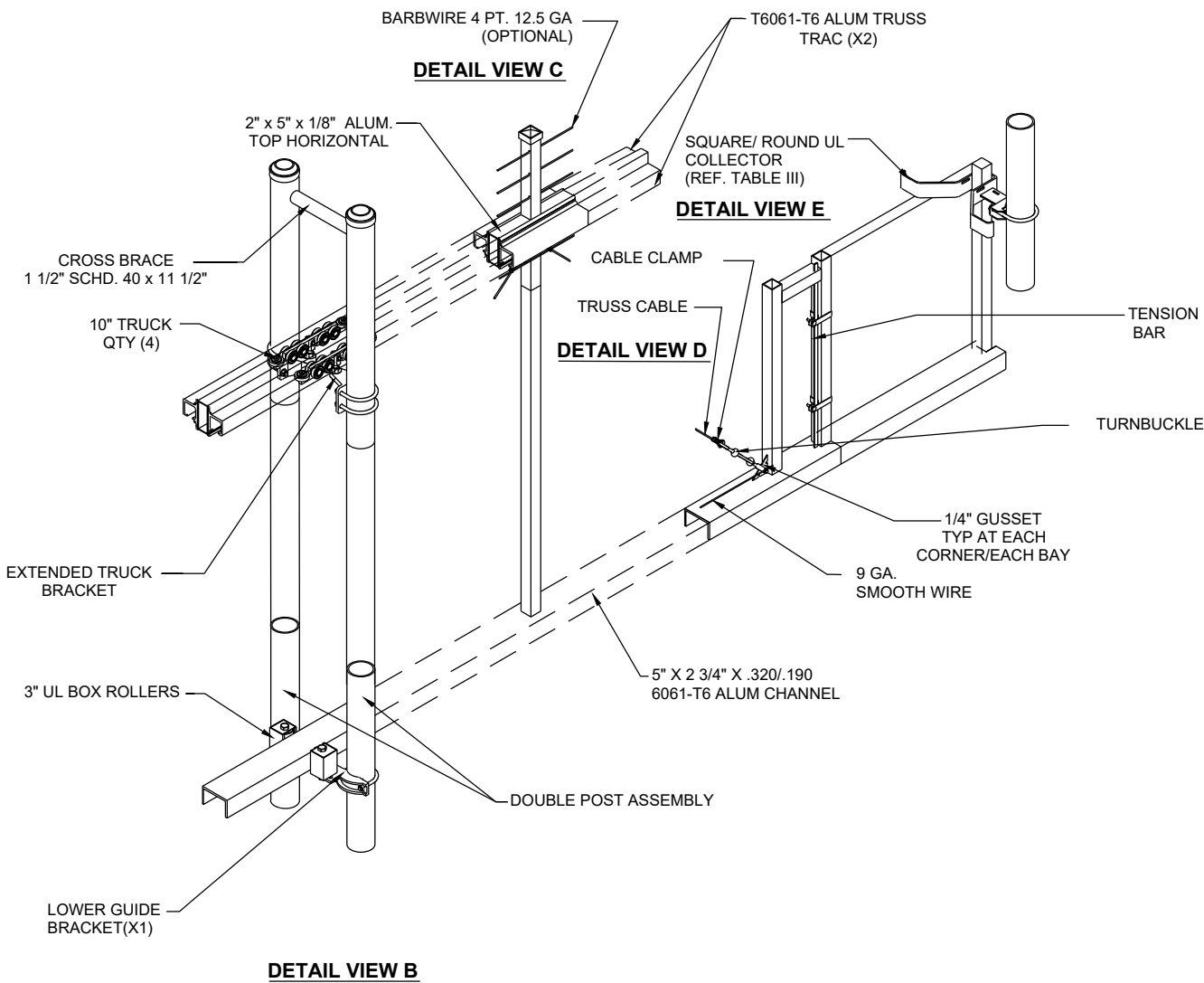
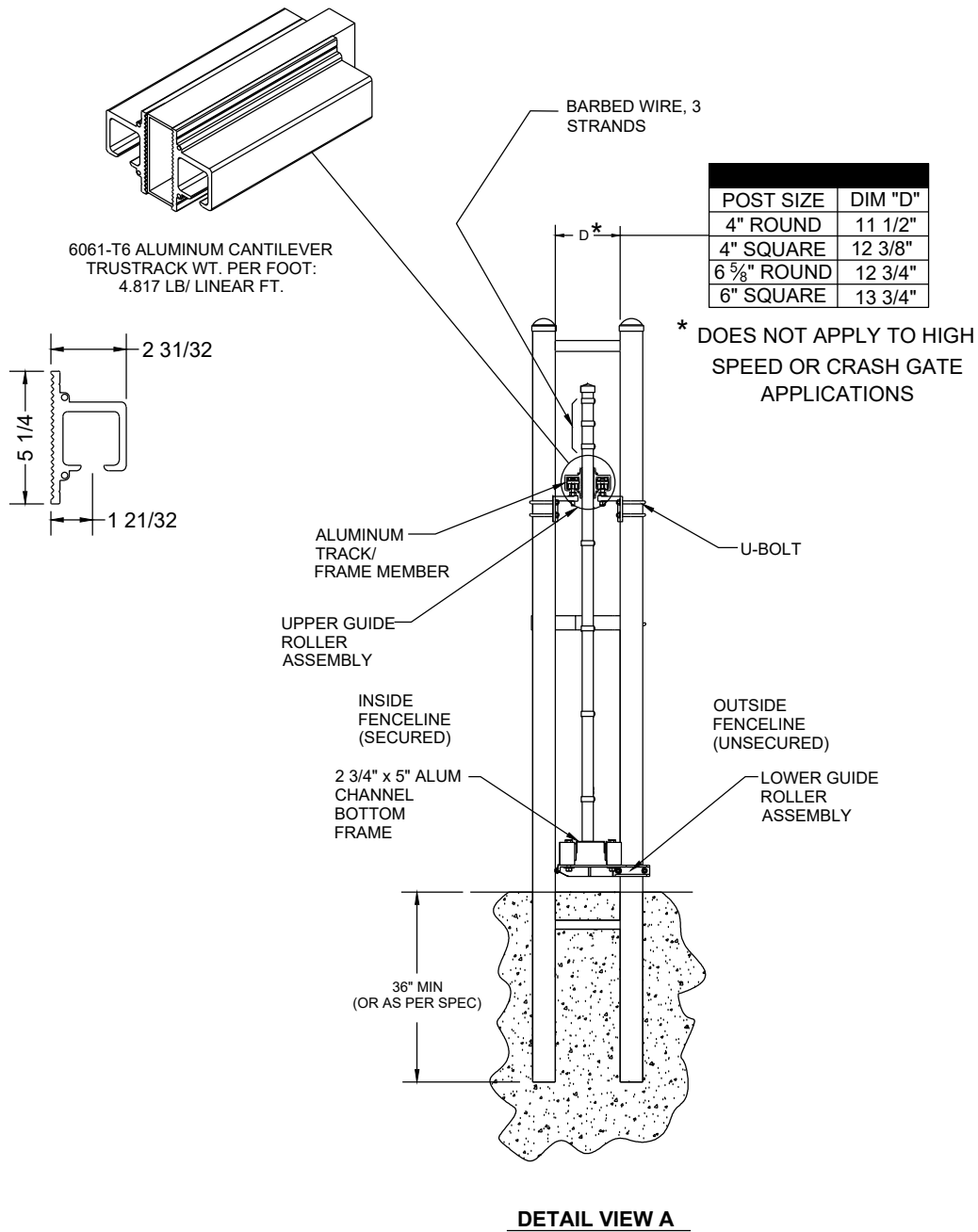


TABLE I: GATE OVERALL LENGTH AND POST SPACING CALCULATIONS
GATE OVERALL LENGTH = GATE OPENING x 1.5
POST SPACING = ½ GATE OPENING - 1 FT (min)



GENERA NOTES:

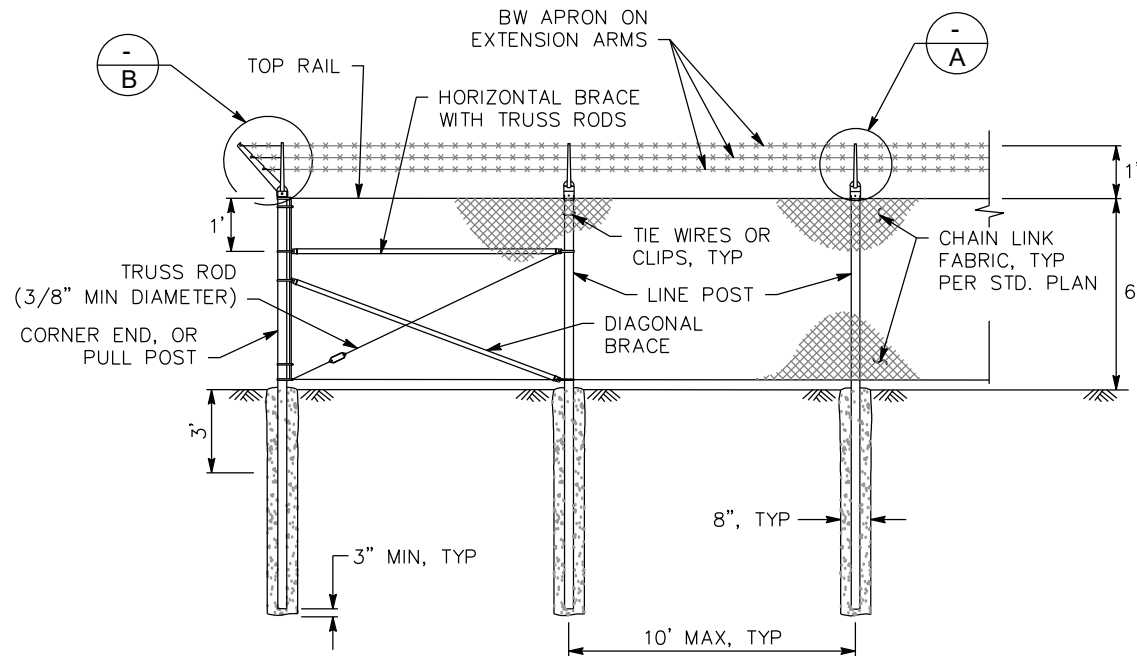
- GENERAL
 - ALL WORK SHALL COMPLY WITH LOCAL CODES, CALTRANS 2024 STANDARDS AND SPECIFICATION, AND APPLICABLE ASTM STANDARDS.
 - FENCE INSTALLATION TO BE COMPLETED PER MANUFACTURER'S RECOMMENDATIONS AND STANDARD INDUSTRY PRACTICES.
 - CONTRACTOR TO VERIFY ALL FENCE LOCATIONS AND PROPERTY BOUNDARIES PRIOR TO INSTALLATION.
- ANY DISCREPANCIES SHALL BE REPORTED TO THE RESIDENT ENGINEER OR HUMBOLDT COUNTY PUBLIC WORKS PERSONNEL

CHAIN LINK SECURITY FENCE NOTES:

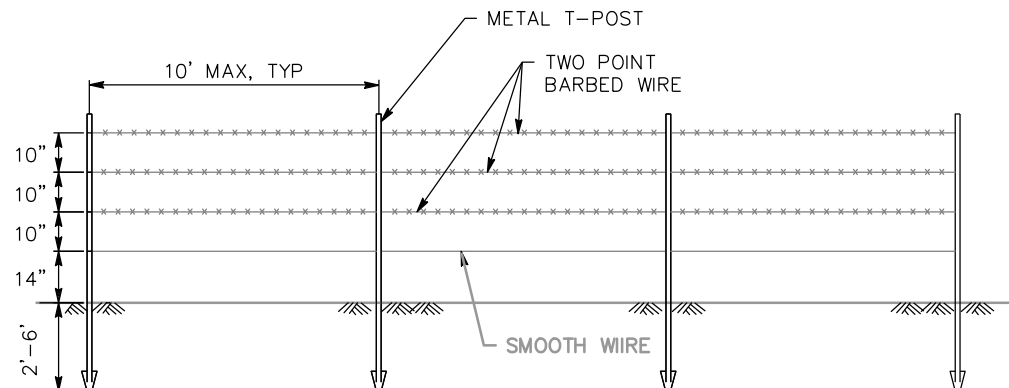
- PIPE SECTIONS FOR POSTS, RAILS, BRACES AND GATES SHALL BE SCHEDULE 40 GALVANIZED PIPE MANUFACTURES IN CONFORMANCE WITH ASTM F 1083.
- CHAIN LINK GATE FRAMES SHALL BE A MINIMUM OF 1-7/8" PIPE WEIGHING 2.72 LBS/FT.
- DIMENSIONS SHOWN ARE NOMINAL.
- BARBED WIRE FOR SECURITY FENCING SHALL HAVE FOUR POINTS BARBS AND IN CONFORMANCE WITH ASTM A 121.
- BARBED WIRE SHALL BE COMMERCIAL QUALITY CLASS 1 12-1/2 GAGE, CLASS 2 13-1/2 GAGE, OR CLASS 3 12-1/2 GAGE.
- GALVANIZED BOLTS AND NUTS FOR ATTACHING BRACES AND STRAPS TO GALVANIZED DEVICES FOR HOLDING BARBED WIRE IN POSITION MUST BE COMMERCIAL QUALITY.
- LINE AND CORNER POSTS SHALL INCLUDE 3 STRANDS OF BARBED WIRE FOR THE LENGTH OF THE FENCE.

METAL T-POST FENCE NOTES:

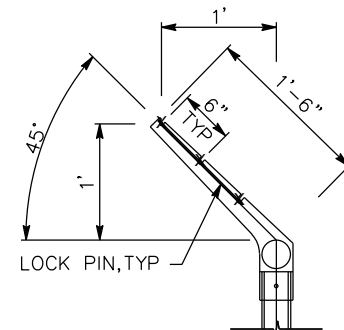
- FENCE TYPE
 - FENCE TO CONSIST OF COMMERCIAL-GRADE METAL T-POSTS WITH THREE STRANDS OF TWO PINT BARBED WIRE SPACED AT 10" APART AND ONE SMOOTH WIRE AT THE BOTTOM AT 14" FROM FINISH GROUND.
 - WIRE TYPE: STANDARD DOUBLE STRAND BARBED WIRE.
 - MINIMUM WIRE SIZE: 12-1/2 GAUGE WITH 14 GAUGE OR HEAVIER TWO-POINT BARBS SPACED NOT MORE THAN 5 INCHES APART.
 - MINIMUM PROTECTIVE COATING: CLASS I GALVANIZED COATING PER ASTM A121.
 - STRAND-BREAKING STRENGTH: MINIMUM 850 POUNDS OR 60,000 PSI TENSILE STRENGTH.
 - BOTTOM WIRE: 12.5-GAUGE GALVANIZED SMOOTH WIRE FOR ANIMAL SAFETY OR PER PROJECT REQUIREMENTS.
 - TOTAL FENCE HEIGHT: [INSERT HEIGHT, E.G., 5 FEET] ABOVE FINISHED GRADE.
- POST INSTALLATION
 - T-POSTS SHALL BE SPACED AT A MAXIMUM OF 10 FEET ON CENTER UNLESS NOTED OTHERWISE.
 - T-POSTS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 2.5 FEET, OR AS REQUIRED FOR STRUCTURAL STABILITY.
 - ALL TERMINAL AND CORNER POSTS SHALL BE GALVANIZED SCHEDULE 40 STEEL PIPE SET IN CONCRETE FOOTINGS.
 - BRACING ASSEMBLIES (H-BRACES OR DIAGONAL TENSION BRACING) TO BE PROVIDED AT CORNERS AND END POSTS.
- WIRE INSTALLATION
 - THREE STRANDS OF WIRE SHALL BE EVENLY SPACED BETWEEN THE TOP AND BOTTOM OF THE FOURTH STRAND.
 - BOTTOM STRAND SHALL CONSIST OF SMOOTH WIRE TO REDUCE INJURY RISK FOR ANIMALS OR PERSONNEL.
 - WIRE SHALL BE PULLED TAUT, FREE OF SLACK, AND ATTACHED TO EACH POST USING GALVANIZED CLIPS, PRE-FORMED WIRE TIES, OR SIMILAR FASTENERS APPROVED BY THE MANUFACTURER.
 - BARBS SHALL FACE OUTWARD FROM THE SECURED AREA UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER OR HUMBOLDT COUNTY PUBLIC WORKS PERSONNEL.
- CLEARING & GRADING
 - CLEAR FENCE LINE OF ALL VEGETATION, ROCKS, AND OBSTRUCTIONS TO A MINIMUM WIDTH OF 3 FEET.
 - GRADE MINOR RISES AND DEPRESSIONS TO ALLOW FENCE WIRE TO CLOSELY FOLLOW TERRAIN WITHOUT EXCESSIVE GAPS.
- FINISH & PROTECTION
 - ALL WIRE AND METAL COMPONENTS SHALL HAVE CORROSION-RESISTANT COATINGS.
 - FIELD REPAIRS TO COATINGS MUST BE MADE USING COLD GALVANIZING COMPOUND OR MANUFACTURER-APPROVED PAINT.



2 CHAIN LINK SECURITY FENCE, TYPICAL DETAIL
NOT TO SCALE

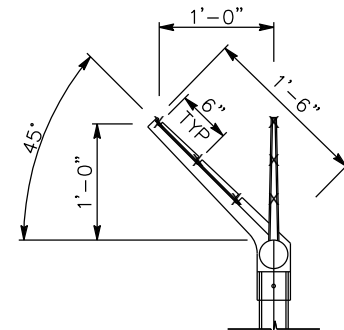


4 METAL T-POST FENCE, TYPICAL DETAIL
SCALE: NTS



LINE POST

A



CORNER POST

B

3 BARBED WIRE (POST TOP)
NOT TO SCALE



BAR IS ONE INCH ON ORIGINAL DRAWING

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ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

DRAWING FILE NAME:

PLOT DATE: 08/19/25

MILE POST:

HUMCO

DESIGNED BY: ENGR

DRAWN BY: PBS

REVIEWED BY: JAB

APPROVED BY: TRS

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

CONSTRUCTION DETAILS

SHEET

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OF

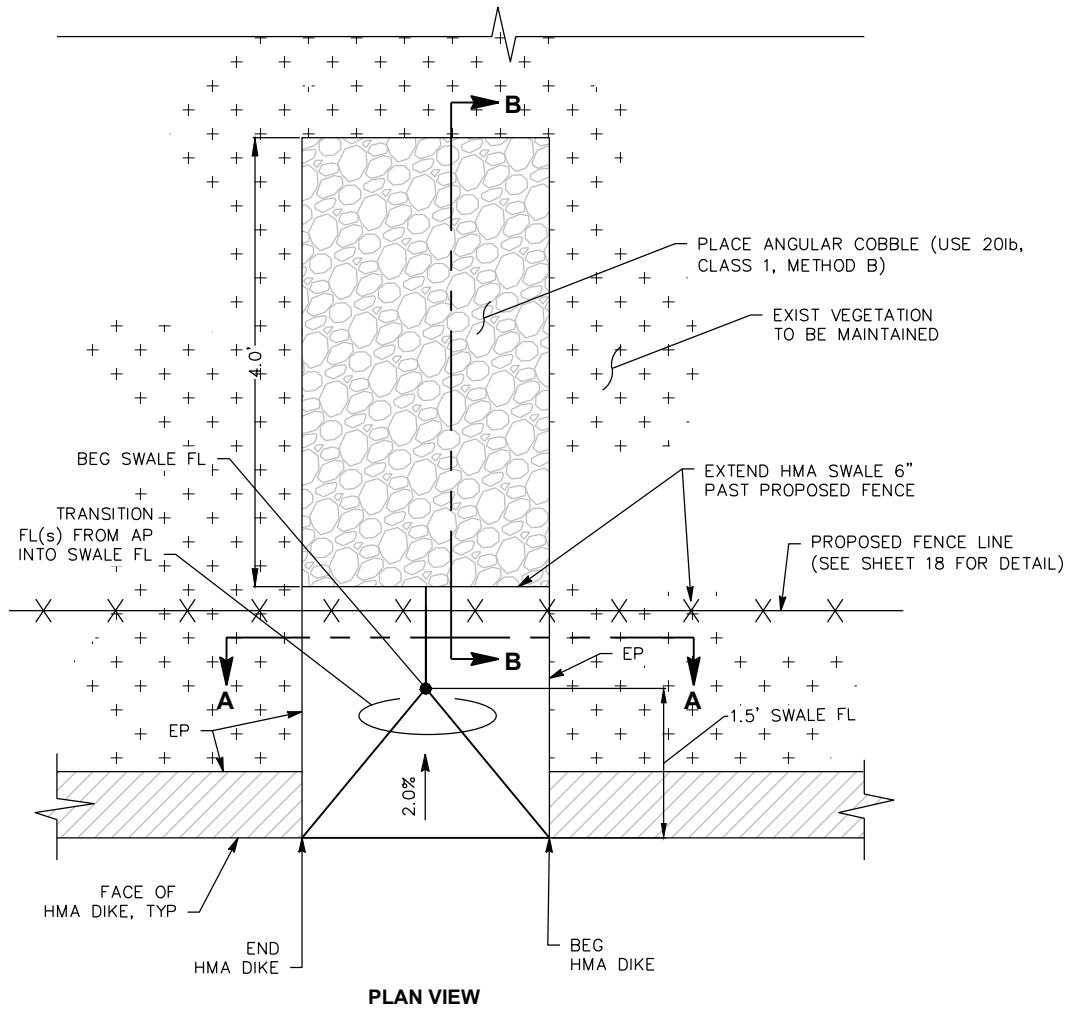
58

NOTES:

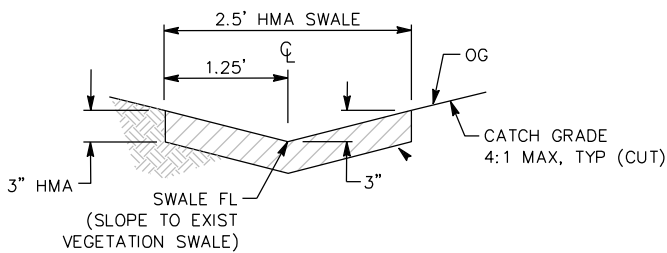
1. SP = 2024 CALTRANS STANDARD PLANS
SS = 2024 CALTRANS STANDARD SPECIFICATION
2. THE CEMENTITIOUS MATERIAL CONTENT TO CONFORM WITH SECTION 90-2.01D OF STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION 2024 STANDARD SPECIFICATIONS.



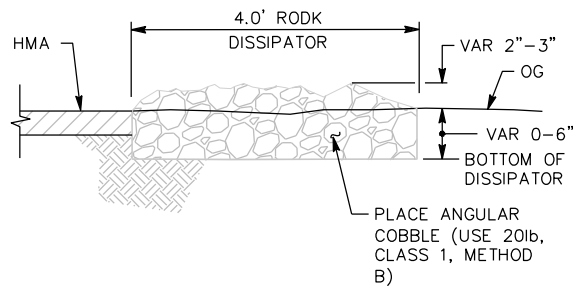
<div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 27 OF 58
	ROAD NO:	MILE POST:	DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
	PROJECT NO.: 438005		DRAWN BY: PBS		
	DRAWING FILE NAME:		REVIEWED BY: JAB	CONSTRUCTION DETAILS	
	PLOT DATE: 08/19/25		APPROVED BY: TRS		



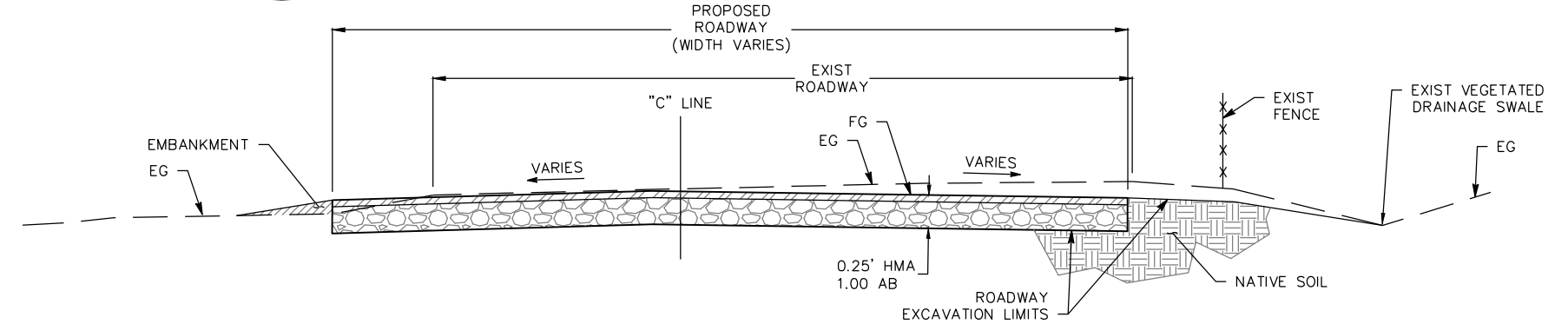
6 HMA SWALE FL TRANSITION AND ROCK DISSIPATOR
NOT TO SCALE



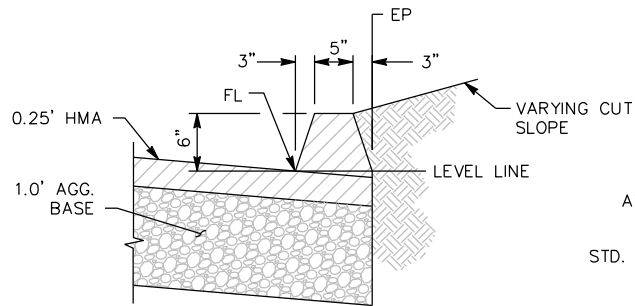
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE



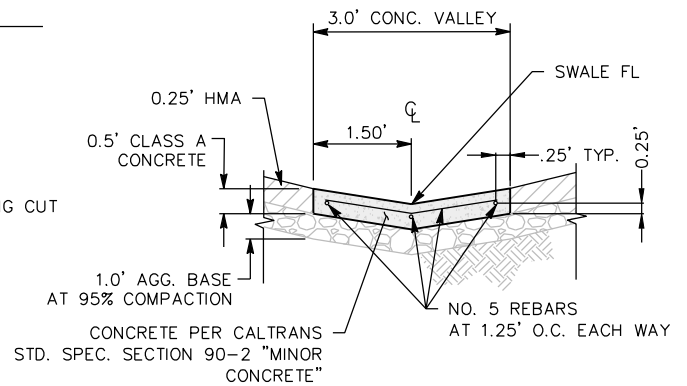
8 TYPICAL ROADWAY SECTION
NOT TO SCALE



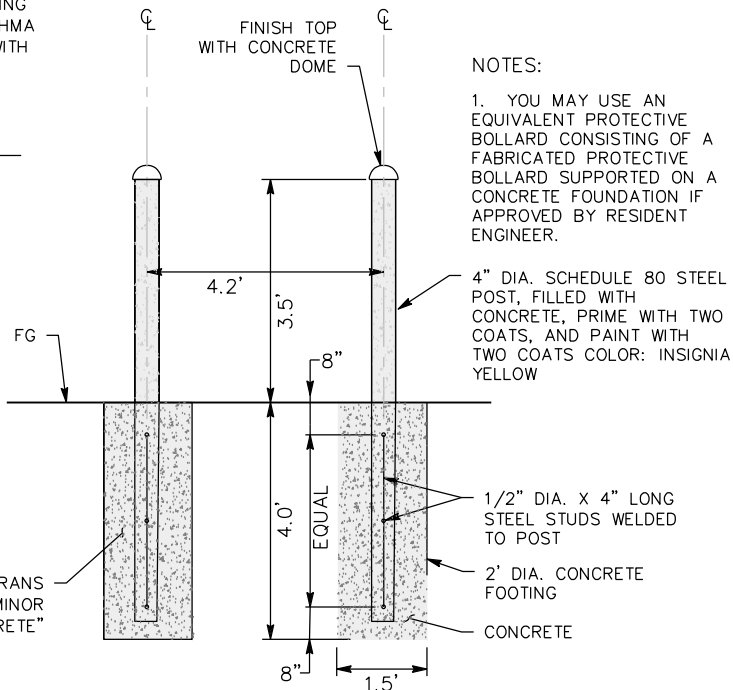
EXTEND FINAL/TOP LIFT OF HMA FROM DRIVE AISLE UNDER THE DIKE WITH NO JOINT AT THE EP/FL.

NOTE: DETAIL SHOWN DEFINES HMA AREAS OUTSIDE PARKING STALLS, WITH FLOW TOWARDS THE EP/FL. PARKING STALL HMA (AND PCC-NOT SHOWN IN DETAIL) AREAS WOULD VARY, WITH DRAINAGE FLOWING AWAY FROM MOST EP LOCATIONS.

9 HMA DIKE (TYPE A) 11\" WIDE
NOT TO SCALE



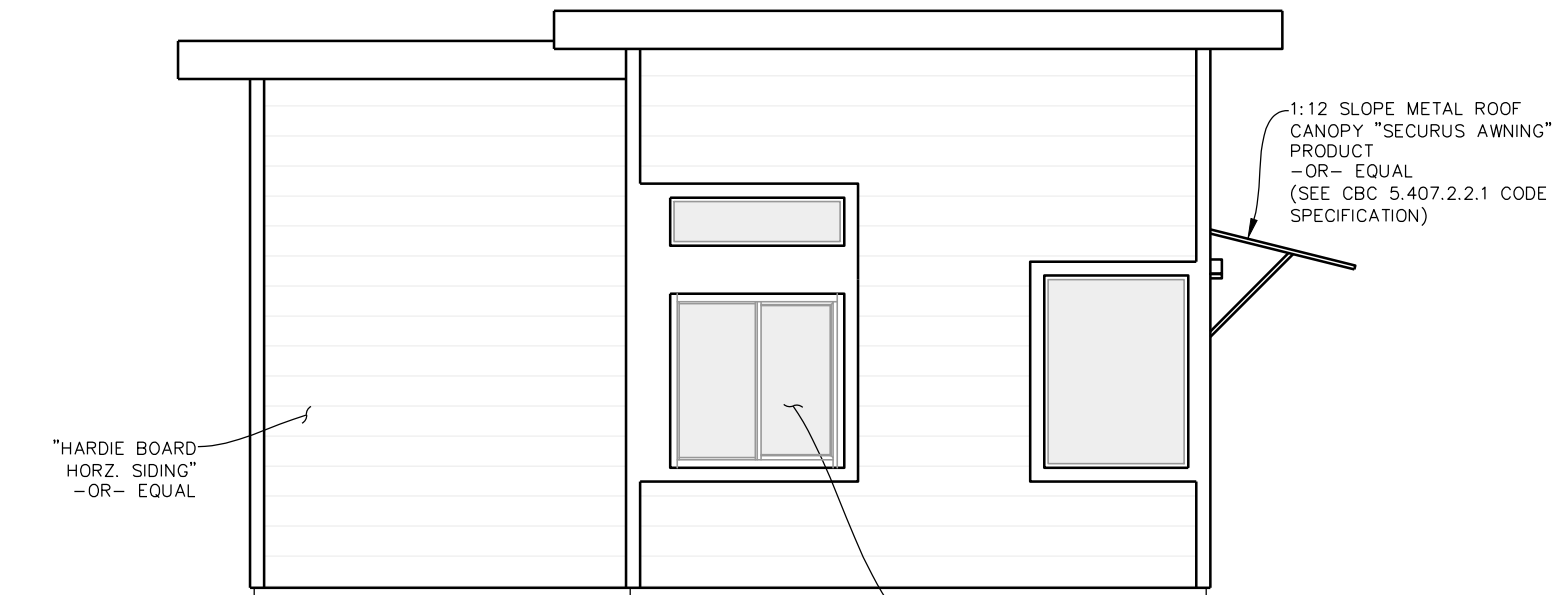
10 CONCRETE VALLEY GUTTER
NOT TO SCALE



5 PROTECTIVE BOLLARD
NOT TO SCALE

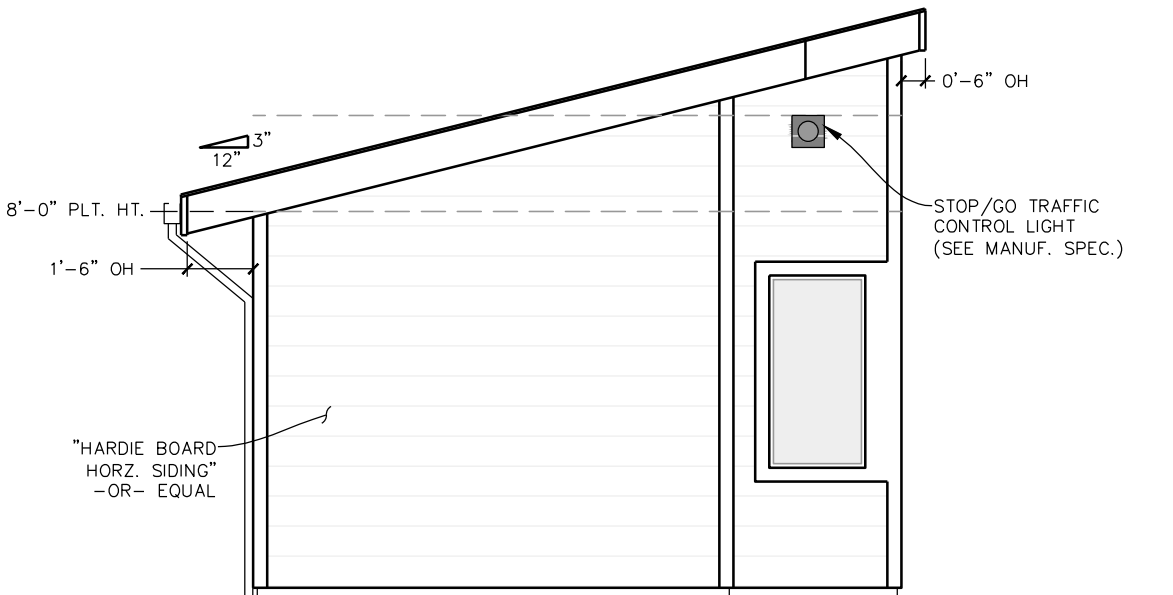


BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD.	DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS REDWAY TRANSFER STATION WEIGH STATION BUILDING ELEVATION PLAN	SHEET 28 OF 56
	ROAD NO: PROJECT NO.: 438005	ENGINEERING		
	DRAWING FILE NAME: RTS_WEIGHT SHACK	DESIGNED BY: ENGR		
	PLOT DATE: 08/19/2025	DRAWN BY: PBS REVIEWED BY: TRS APPROVED BY: JAB		

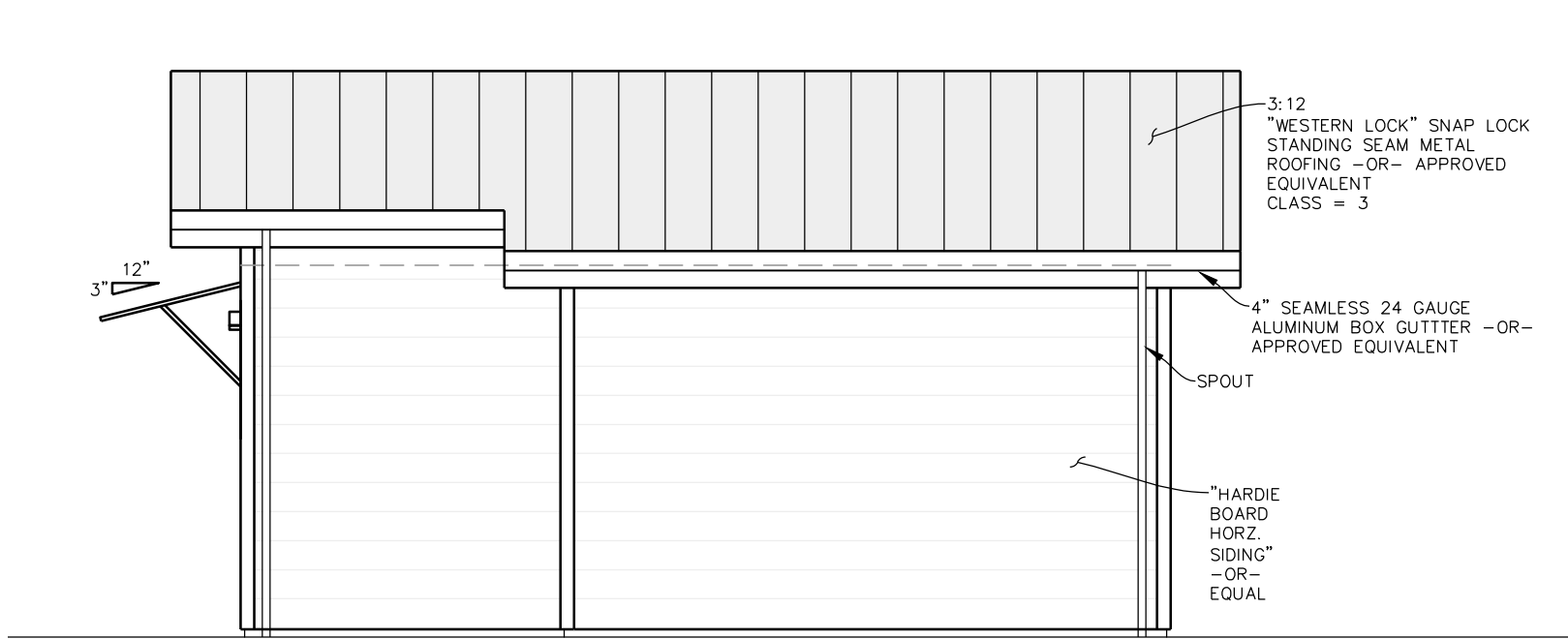


NORTH ELEVATION
SCALE: 1/2"= 1'

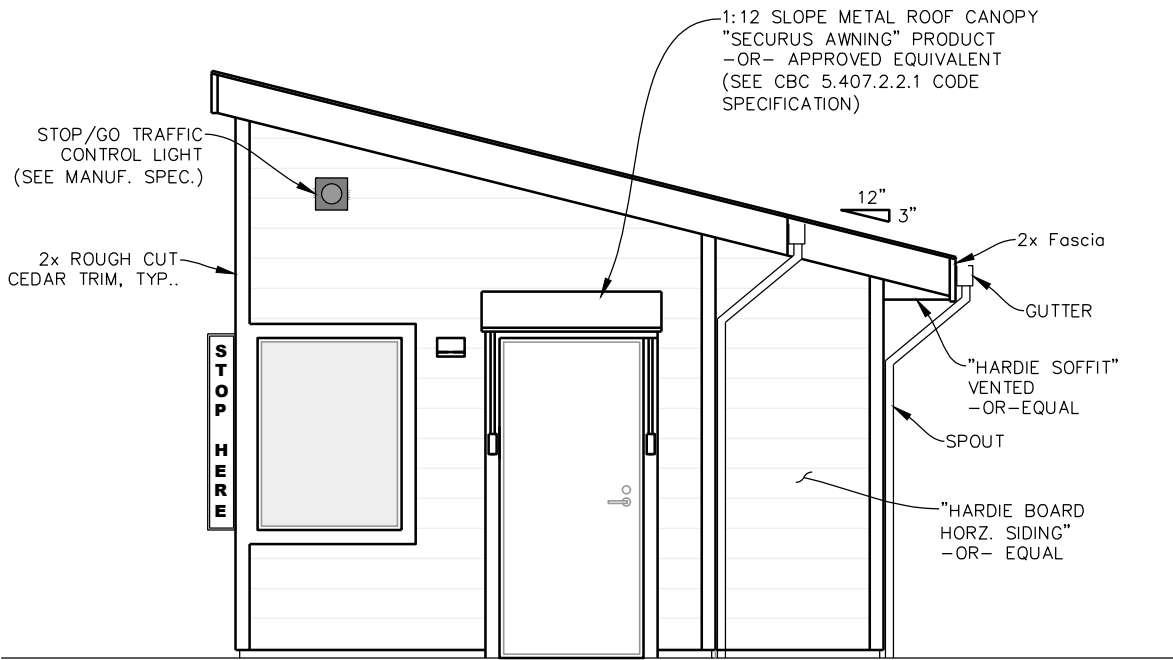
SECURITY WINDOW: "READY ACCESS, INC. " PART # 275 LOW PROFILE SINGLE PANEL SLIDER (ADA COMPLIANT) -OR- APPROVED EQUIVALENT BY ENGINEER PASS THROUGH ADA WINDOW



EAST ELEVATION
SCALE: 1/2"= 1'



SOUTH ELEVATION
SCALE: 1/2"= 1'



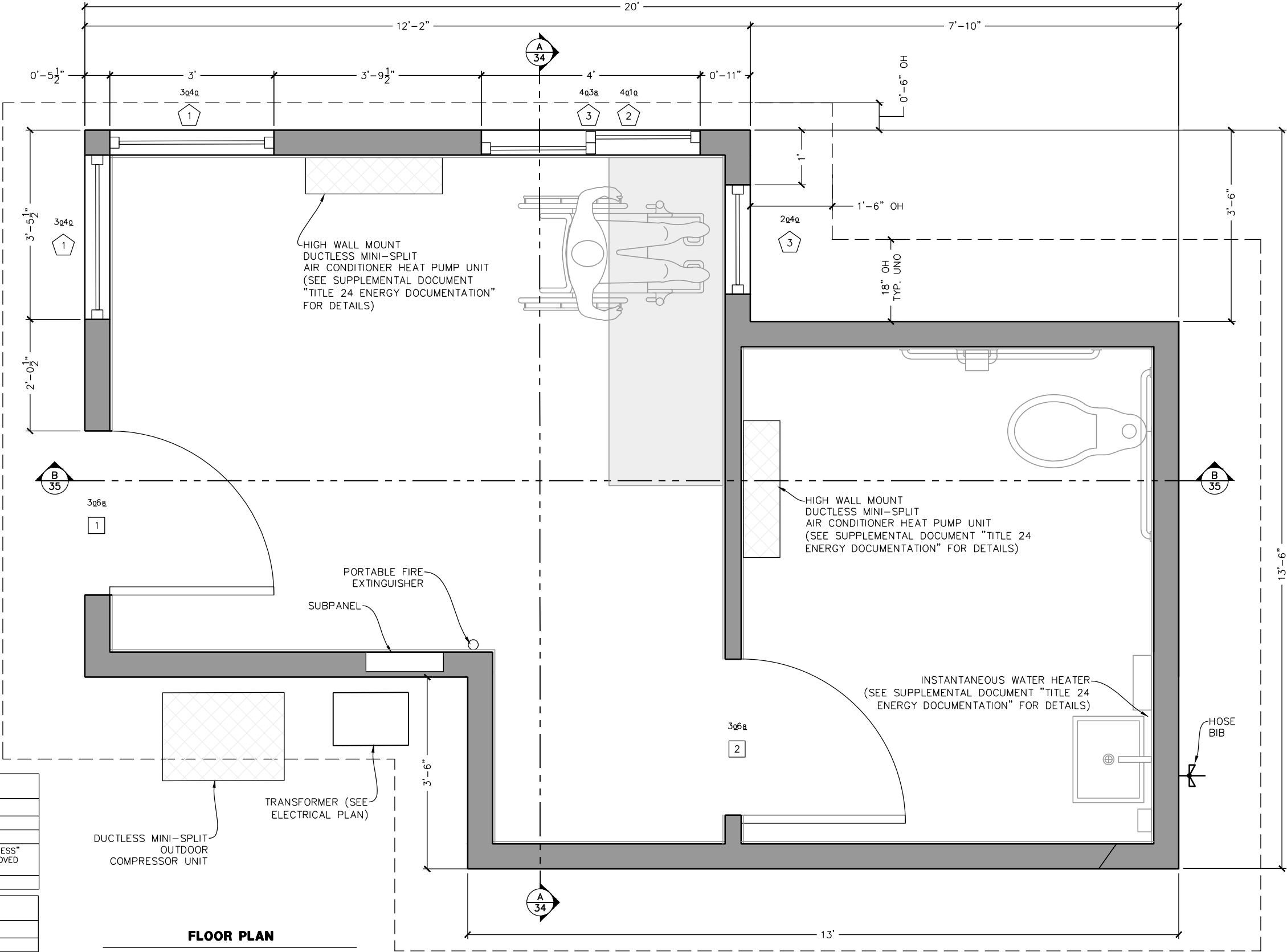
WEST ELEVATION
SCALE: 1/2"= 1'



SCALE 1"= 1'

FIRE SAFE NOTES (CBC CHAPTER 7A):

- DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION (5', 30', AND 100' DEFENSIBLE SPACES AROUND STRUCTURES PER CALFIRE).
- ROOF ASSEMBLY TO BE CLASS A RATED TO MEET FIRE SAFE REGULATIONS.
- ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS.
- EXTERIOR VENTS (FOR ENCLOSED ATTICS, GABLE ENDS, RIDGE ENDS, UNDER EAVES AND CORNICES, ENCLOSED EAVE SOFFIT SPACES, ENCLOSED RAFTER SPACES FORMED WHERE CEILINGS ARE APPLIED DIRECTLY TO THE UNDERSIDE OF ROOF RAFTERS, UNDERFLOOR VENTILATION, FOUNDATIONS AND CRAWL SPACES) SHALL BE SCREENED WITH CORROSION RESISTANT, NON-COMBUSTIBLE WIRE MESH WITH 1/16"-1/8" OPENINGS OR ITS EQUIVALENT. ALL VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME ENTRANCE PER CBC 706A. CONTRACTOR TO PROVIDE BUILDING INSPECTOR WITH APPROVED PRODUCT LISTINGS. PROVIDE VULCAN, EMBERS OUT, BRANDGUARD VENTS, OR O'HAGIN VENT MODELS OR EQV.
- UNDERSIDE OF EAVES OR SOFFIT TO BE IGNITION RESISTANT OR NON-COMBUSTIBLE PER ONE OF THE FOLLOWING:
 - OPEN EAVES WITH EXPOSED RAFTERS: MIN 2X RAFTER TAILS WITH MIN 2X BLOCKING BETWEEN THEM WITH APPROVED WUI VENTS AS NOTED ABOVE WITH EXPOSED FIRE RATED ROOF SHTG LISTED FOR WUI UNDER EAVE APPLICATION OR EQV.
 - BOXED SOFFIT WITH APPROVED WUI UNDER EAVE LISTED PRODUCT WITH APPROVED WUI VENTS AS NOTED ABOVE.
- EXTERIOR SIDING TO BE CONSTRUCTED WITH NONCOMBUSTIBLE MATERIAL, FIRE-RETARDANT-TREATED WOOD, OR IGNITION-RESISTANT MATERIAL, OR HEAVY TIMBER EXTERIOR WALL ASSEMBLY, A WALL ASSEMBLY THAT MEETS SFM STANDARD 12-7A-1.
- ALL EXTERIOR DOORS SHALL BE OF NON-COMBUSTIBLE, OR 1-3/8" SOLID CORE, OR 20-MINUTE FIRE RATED.
- ALL WINDOWS SHALL BE OF TEMPERED GLASS, OR 20-MINUTE FIRE RATED.



WINDOW SCHEDULE				
#	QTY	TYPE	SIZE	OTHER
1	2	FIX	3'-0" X 4'-0"	"MILGARD" V250 STYLE LINE
2	1	FIX	4'-0 X 1'-0"	"MILGARD" V250 STYLE LINE
3	1	ADA SLIDER	3'-11 1/2 X 3'-7 1/2"	SECURITY WINDOW, "READY ACCESS" 275-LOW PROFILE -OR- APPROVED EQUIVALENT
4	1	FIX	2'-0" X 4'-0"	"MILGARD" V250 STYLE LINE

DOOR SCHEDULE				
#	QTY	TYPE	SIZE	OTHER
1	1	EXTERIOR	3'-0 X 6'-8"	
2	1	INTERIOR ADA COMPLIANT	3'-0 X 6'-8"	



SCALE 1"= 1'

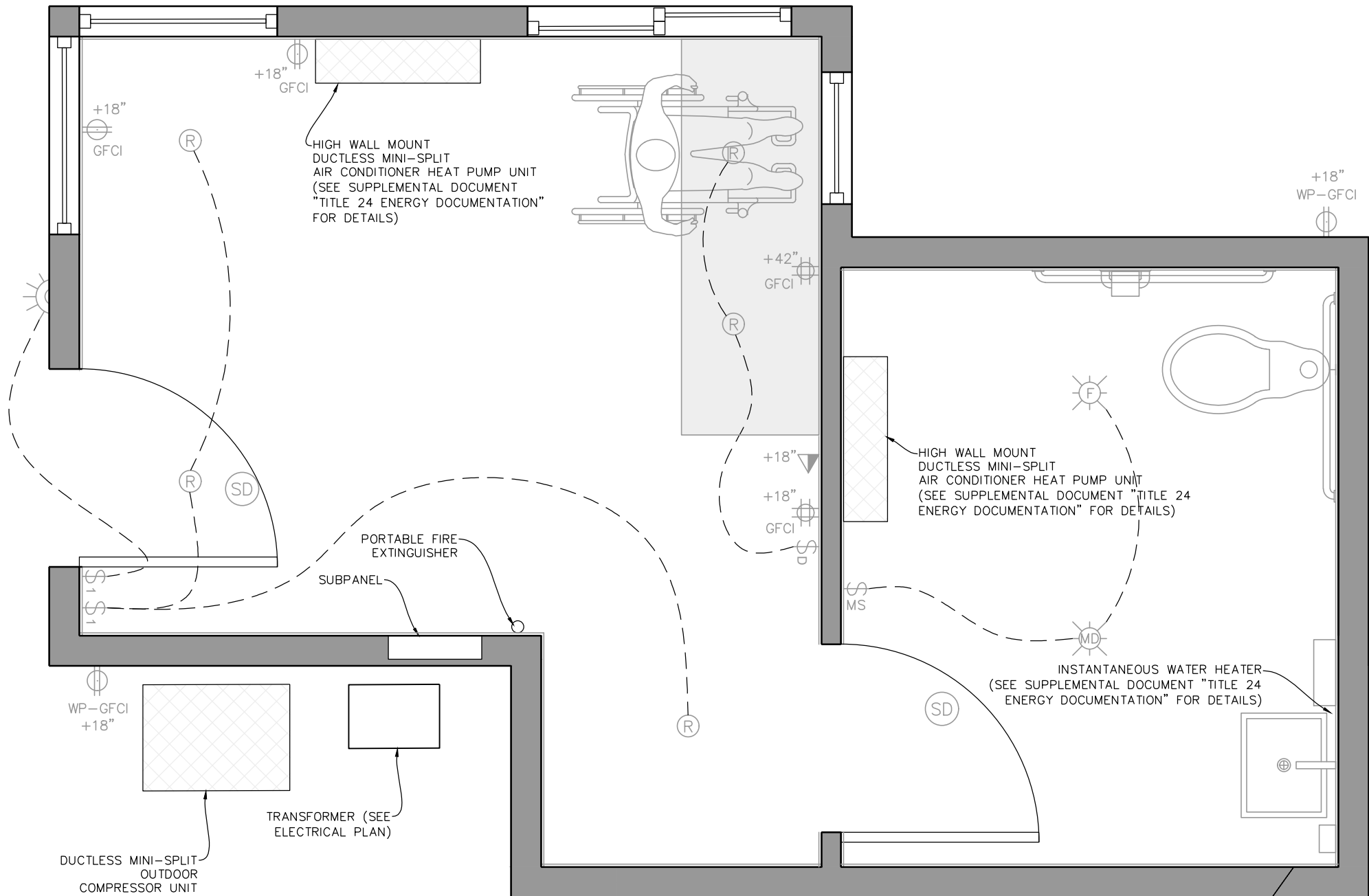
ELECTRICAL LEGEND:

- CKT # DUPLEX CONVENIENCE OUTLET MOUNTED +18" OR SPECIFIED ABOVE FINISH FLOOR TO BOX CENTER UNO. 120 VOLT UNLESS SPECIFIED. SUBSCRIPTS:
GFCI – GROUND FAULT CIRCUIT INTERRUPTER
WP – WEATHER PROOF
IG – ISOLATED GROUND
α – SMALL-CASE LETTER FOR SWITCHED OUTLETS "TIED" TO SWITCHED LIGHTING.
BLANK OR "u" IS UNSWITCHED.
240V – 240 VOLT.
WIRE RECEPT. TO CKT # SHOWN USING #12 CONDUCTORS.
- DOUBLE DUPLEX RECEPTACLE
- RECESSED CAN LIGHT
- S=SMOKE ALARM, SEE LFS.
- SMOKE & CARBON MONOXIDE ALARM–SEE LFS
- EXHAUST FAN
- CEILING MOUNT MOTION DETECTOR – SEE LS
F – FAN LIGHT
- TELEPHONE OUTLET -- MOUNT +18" AFF UNO BOX BOX AND BLANK PLATE ONLY WITH 3/4" CONDUIT STUB TO ACCESSIBLE LOCATION ABOVE CEILING OR BELOW FLOOR, OR AS SHOWN ON PLANS.
- DATA OUTLET -- BOX AND CONDUIT AS ABOVE
- PH & DATA -- BOX AND CONDUIT AS ABOVE
- EXTERIOR MOTION SENSOR LIGHT
- EXTERIOR WALL MOUNT FIXTURE – SEE LFS
- WALL SWITCH--MOUNT +42" AFF TO BOX CENTER SUBSCRIPTS:
1 = SINGLE POLE D = DIMMER
3 = THREE WAY K = KEY OPERATED
4 = FOUR WAY P = PILOT
WP = WEATHERPROOF MS = MOTION SENSOR
α, b, ETC. = SWITCH OPERATES ALL FIXTURES WITH SAME SUBSCRIPT

ELECTRICAL RUN



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD.	DESIGN SECTION ENGINEERING	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS REDWAY TRANSFER STATION WEIGH STATION BUILDING ELECTRICAL PLAN	SHEET 30 OF 56
	ROAD NO.: PROJECT NO.: 438005	DESIGNED BY: ENGR		
	DRAWING FILE NAME: RTS_WEIGH_SHACK	DRAWN BY: PBS		
	PLOT DATE: 08/19/2025	REVIEWED BY: TRS APPROVED BY: JAB		



ELECTRICAL PLAN

SCALE: 1"= 1'

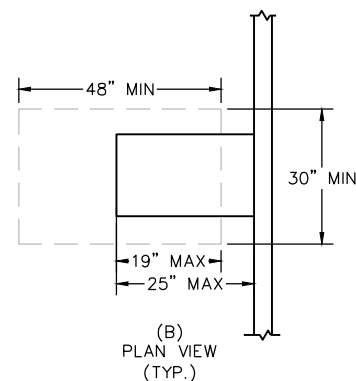
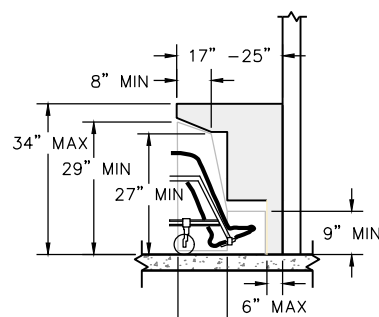
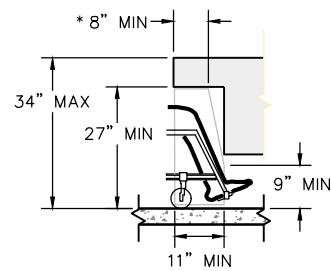


FIGURE 11B-306.3
KNEE AND TOE
CLEARANCE

* NOTE:
PROVIDE 19" MIN AT WORK
SURFACES



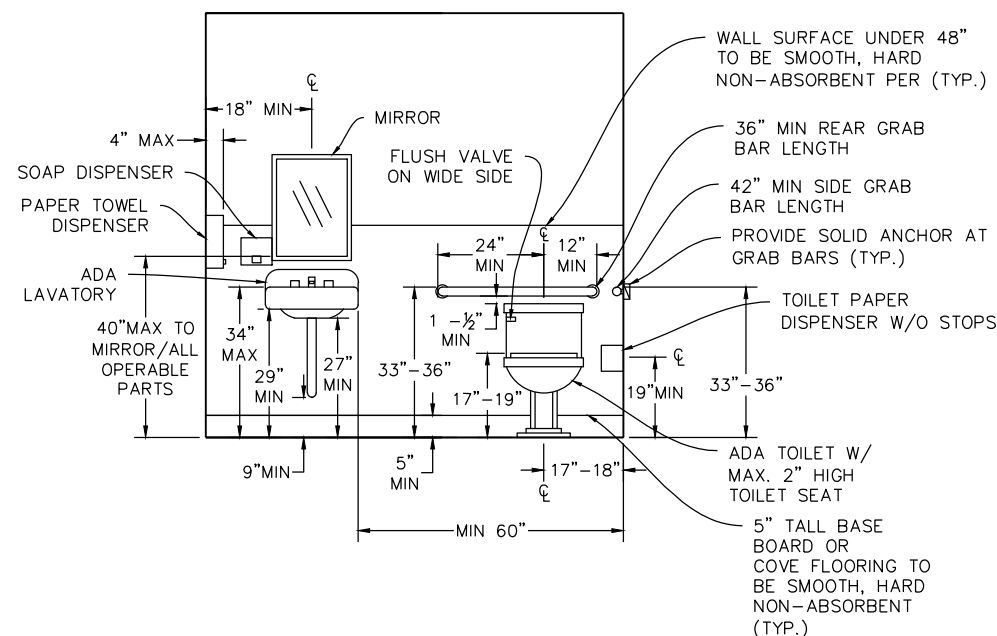
ADA LAVATORY (SINK) NOTES:

1. ACCESSIBLE LAVATORIES SHALL BE A MINIMUM 17" IN HORIZONTAL DEPTH AND MOUNTED WITH THE RIM OR COUNTER EDGE NO HIGHER THAN 34" ABOVE FINISH FLOOR.
2. CLEAR SPACE IN FRONT OF ACCESSIBLE LAVATORIES SHALL BE A MINIMUM 30" WIDE AND 48" DEEP, AND MAY EXTEND A MAXIMUM OF 19" INTO VERTICAL KNEE AND TOE CLEARANCES AS DESCRIBED BELOW.
3. VERTICAL KNEE CLEARANCE UNDER ACCESSIBLE LAVATORIES SHALL BE 29" AT THE FRONT EDGE OF THE LAVATORY, REDUCING TO 27" AT A POINT 8" BACK FROM THE FRONT EDGE.
4. VERTICAL TOE CLEARANCE UNDER ACCESSIBLE LAVATORIES SHALL BE A MINIMUM 9" EXTENDING FROM THE FRONT EDGE OF THE LAVATORY TO A DISTANCE NO MORE THAN 6" FROM THE BACK WALL.
5. HOT WATER AND DRAINPIPES UNDER ACCESSIBLE LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
6. FAUCET CONTROLS FOR LAVATORIES SHALL BE LEVER TYPE, PUSH TYPE, OR ELECTRONICALLY CONTROLLED MECHANISMS. SELF-CLOSING VALVES MUST MAINTAIN A MINIMUM 10 SECONDS OF OPEN FLOW. REFER TO 'ADA BATHROOM NOTES' FOR ADDITIONAL FAUCET CONTROL REQUIREMENTS.

ADA BATHROOM NOTES:

1. THE BATHROOM DOOR SHALL HAVE A PRIVACY LATCH.
2. BATHROOM WALL SURFACES SHALL BE SMOOTH, HARD AND NON-ABSORBENT TO 48" IN HEIGHT, AND SHALL NOT BE ADVERSELY AFFECTED BY MOISTURE.
3. BATHROOM FLOOR SURFACES SHALL BE SMOOTH, HARD AND NON-ABSORBENT, EXTENDING UPWARD A MINIMUM 5" ONTO WALLS.
4. FLUSH VALVES FOR ACCESSIBLE TOILETS AND URINALS SHALL BE LOCATED A MAXIMUM 44" ABOVE FINISH FLOOR. OPERABLE PARTS FOR ALL OTHER TOILET ROOM FIXTURES AND ACCESSORIES SHALL BE LOCATED A MAXIMUM 40" ABOVE FINISH FLOOR.
5. FLUSH VALVES FOR ACCESSIBLE TOILETS AND URINALS, FAUCET CONTROLS, AND ANY OTHER TOILET ROOM CONTROLS OR OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND WITH NO TIGHT GRASPING, PINCHING, OR TWISTING.
6. MAXIMUM PRESSURE TO OPERATE FLUSH VALVES, FAUCET CONTROLS, AND ANY OTHER TOILET ROOM CONTROLS OR OPERATING MECHANISMS SHALL NOT EXCEED 5 POUNDS-FORCE.
7. MIRRORS LOCATED ABOVE LAVATORIES SHALL BE INSTALLED WITH THE BOTTOM EDGE A MAXIMUM 40" ABOVE FINISHED FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES SHALL BE INSTALLED WITH THE BOTTOM EDGE 35" ABOVE FINISHED FLOOR.

ADA LAVATORY AND WORK COUNTER ELEVATION / PLAN VIEW (SCALE N.T.S.)



ADA TOILET NOTES:

1. ACCESSIBLE TOILETS SHALL BE POSITIONED BETWEEN 17" AND 18" FROM THE SIDE WALL OR PARTITION.
2. ACCESSIBLE TOILETS SHALL HAVE AN ELONGATED BOWL WITH A SEAT HEIGHT BETWEEN 17" AND 19" ABOVE FINISH FLOOR.
3. CLEAR SPACE IN FRONT OF ACCESSIBLE TOILETS SHALL BE MINIMUM 60" WIDE AND 48" DEEP.
4. FLUSH VALVES FOR ACCESSIBLE TOILETS SHALL BE LOCATED ON THE WIDE SIDE OF THE TOILET AREA. REFER TO 'ADA BATHROOM NOTES' FOR ADDITIONAL FLUSH VALVE REQUIREMENTS.
5. TOILET PAPER DISPENSERS SHALL BE MOUNTED A MINIMUM OF 1-1/2" CLEAR UNDER THE SIDE GRAB BAR AND A MINIMUM OF 19" ABOVE FINISH FLOOR TO ϕ OF DISPENSER AND HORIZONTALLY BETWEEN 7" AND 9" FROM THE FRONT EDGE OF THE TOILET SEAT TO THE ϕ OF THE DISPENSER.
6. GRAB BARS SHALL BE PROVIDED IN ACCESSIBLE TOILET COMPARTMENTS ON THE SIDE WALL CLOSEST TO THE TOILET AND ON THE REAR WALL.
7. SIDE GRAB BARS IN TOILET COMPARTMENTS SHALL BE MINIMUM 42" IN LENGTH, AND SHALL BEGIN A MAXIMUM 12" FROM THE REAR WALL. THE FRONT END OF A SIDE GRAB BAR SHALL BE POSITIONED A MINIMUM 24" IN FRONT OF THE TOILET AND 54" FROM THE REAR WALL.
8. REAR GRAB BARS IN TOILET COMPARTMENTS SHALL BE MINIMUM 36" IN LENGTH, SHALL EXTEND A MINIMUM 12" FROM THE CENTERLINE OF THE TOILET ON THE WALL SIDE AND A MINIMUM OF 24" FROM CENTERLINE ON THE OTHER SIDE. THE SPACE BETWEEN THE REAR GRAB BAR AND THE TOP OF THE TOILET TANK SHALL BE A MINIMUM OF 1-1/2"

ADA GRAB BAR NOTES:

1. THE DIAMETER OR WIDTH OF CIRCULAR GRAB BAR GRIPPING SURFACES SHALL BE 1-1/4" TO 2". ALL GRAB BARS SHALL BE CAPABLE OF SUPPORTING A 250-POUND POINT LOAD, AND SHALL NOT ROTATE WITHIN THEIR FITTINGS.
2. ALL GRAB BARS SHALL HAVE 1-1/2" OF CLEARANCE BETWEEN THE BAR & WALL, SHALL HAVE 12" OF CLEARANCE BETWEEN THE BAR AND ANY PROJECTING OBJECT ABOVE THE BAR, SHALL HAVE 1-1/2" OF CLEARANCE BETWEEN THE BAR AND ANY PROJECTING OBJECT BELOW THE BAR, AND SHALL BE MOUNTED BETWEEN 33" AND 36" ABOVE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE.



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD.		DESIGN SECTION	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS REDWAY TRANSFER STATION WEIGH STATION BUILDING ADA DETAILS	SHEET 31 OF 56
	ROAD NO:	MILE POST:	ENGINEERING		
	PROJECT NO.: 438005		DESIGNED BY: ENGR		
			DRAWN BY: PBS		
	DRAWING FILE NAME: RTS_WEIGHT_SHACK		REVIEWED BY: TRS		
	PLOT DATE: 08/19/2025		APPROVED BY: JAB		

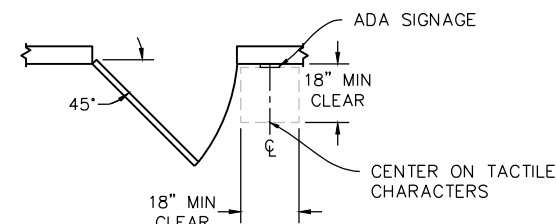
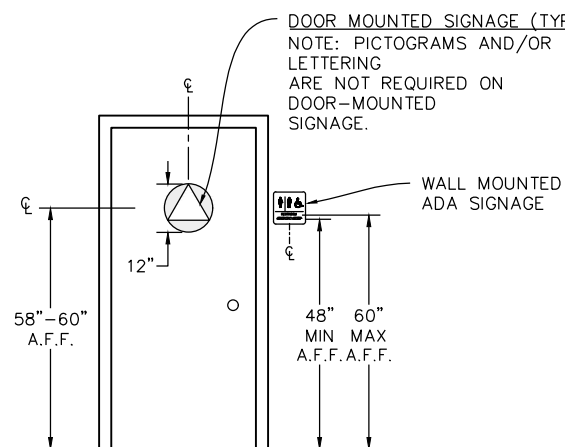


FIGURE 11B-703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

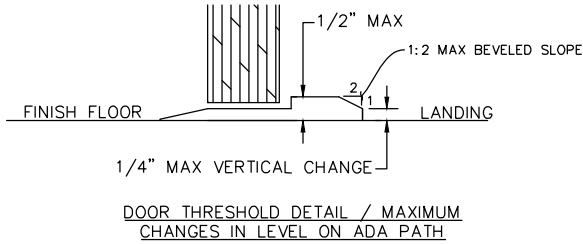
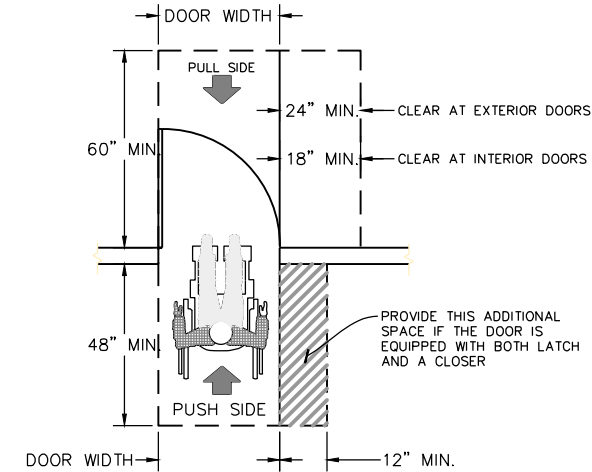
ADA SIGNAGE NOTES:

1. DOOR MOUNTED SIGNS SHALL BE CENTERED ON THE DOOR AND LOCATED BETWEEN 58" AND 60" IN HEIGHT, MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN.
2. WALL MOUNTED SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS (TEXT).
3. UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A 12" DIAMETER CIRCLE LOCATED ON THE DOOR THAT IS 1/4" THICK WITH A 1/4" THICK TRIANGLE SUPERIMPOSED WITHIN THE CIRCLE. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE SYMBOL AND THE CIRCLE SYMBOL SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
4. MEN'S RESTROOM FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE LOCATED ON THE DOOR THAT IS 1/4" THICK WITH EDGES 12" LONG AND VERTEX POINTING UPWARD. THE TRIANGLE SYMBOL SHALL BE MOUNTED CENTERED ON THE DOOR, AND SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
5. WOMEN'S RESTROOM FACILITIES SHALL BE IDENTIFIED BY A CIRCLE LOCATED ON THE DOOR THAT IS 1/4" THICK AND 12" IN DIAMETER. THE CIRCLE SYMBOL SHALL BE MOUNTED CENTERED ON THE DOOR, AND SHALL CONTRAST WITH THE DOOR, EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.
6. ACCESSIBLE RESTROOM, SHOWER, AND CHANGING ROOM FACILITIES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. THE SYMBOL CONSISTS OF A WHITE FIGURE ON A BLUE BACKGROUND OR ANY LIGHT COLOR ON A DARK BACKGROUND OR DARK COLOR ON A LIGHT BACKGROUND AS APPROVED BY THE BUILDING DEPARTMENT.
7. RESTROOM, SHOWER, AND CHANGING ROOM IDENTIFICATION SIGNAGE (I.E., MEN'S, WOMEN'S, ETC.) SHALL BE LOCATED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT A LOCATION THAT ALLOWS A PERSON TO APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF THE DOOR. THIS CLEAR FLOOR AREA SHALL BE MINIMUM 18" WIDE AND MINIMUM 18" DEEP. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL.
8. LETTERS AND NUMERALS SHALL BE SANS-SERIF UPPERCASE CHARACTERS, RAISED 1/32", AND SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE. CHARACTERS SHALL BE A MINIMUM 5/8" HIGH AND A MAXIMUM OF 2" HIGH. BRAILLE DOTS SHALL BE DOMED OR ROUNDED.
9. PICTORIAL SYMBOL SIGNS (I.E., PICTOGRAMS), IF UTILIZED IN CONJUNCTION WITH TEXT IDENTIFICATION, SHALL BE LOCATED DIRECTLY ABOVE TEXT DESCRIPTIONS. PICTOGRAM BORDERS SHALL BE A MINIMUM 6" HIGH.
10. THE CHARACTERS AND BACKGROUND ON WALL MOUNTED SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH, AND THE COLOR AND CONTRAST OF SIGNS SHALL DISTINCTIVELY CONTRAST WITH THE COLOR AND CONTRAST OF THE WALLS UPON WHICH THE SIGNS ARE MOUNTED.

ADA DOOR DETAIL (SCALE N.T.S.)

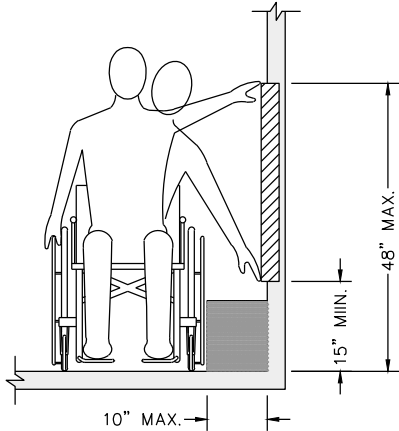


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	ROAD NO.: PROJECT NO.: 438005	ENGINEERING		
	DRAWING FILE NAME: RTS_WEIGH_SHACK	DESIGNED BY: ENGR		
	PLOT DATE: 08/19/2025	DRAWN BY: PBS REVIEWED BY: TRS APPROVED BY: JAB		



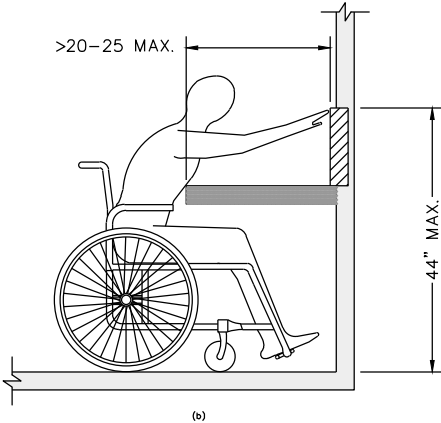
- ADA DOOR/GATE NOTES:
- MANEUVERING CLEARANCE AND LEVEL AREA IN THE DIRECTION OF THE DOOR SWING SHALL BE A MINIMUM OF 60" IN LENGTH.
 - MANEUVERING CLEARANCE AND LEVEL AREA IN THE OPPOSITE DIRECTION OF THE DOOR SWING SHALL BE A MINIMUM OF 48" IN LENGTH.
 - SURFACE SLOPES OF LEVEL AREAS SHALL NOT EXCEED A 1:48 OR 2% GRADIENT.
 - DOORWAYS SHALL HAVE A MIN. CLEAR OPENING OF 32".
 - EXIT DOORS SHALL BE CAPABLE OF OPENING A MINIMUM OF 90 DEGREES.
 - LEVEL AREAS ON EITHER SIDE OF DOORS SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
 - BOTTOM 10 INCHES OF DOOR SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE THAT ALLOWS THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
 - EFFORT TO OPERATE INTERIOR & EXTERIOR DOORS SHALL BE WITHIN 5 POUNDS MAX. PRESSURE AS MEASURED TO THE DOOR FACE AT THE DOOR OPENING HARDWARE OR 30 INCHES FROM THE HINGED SIDE, WHICHEVER IS FARTHER FROM THE HINGE. REQUIRED FIRE DOORS SHALL NO EXCEED 15 POUNDS MAX. PRESSURE.
 - HANDLES, PULL LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
 - LATCHING AND LOCKING DOORS THAT ARE HAND OPERATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE.
 - OPENING HARDWARE SHALL BE 34" MINIMUM AND 44" MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND.
 - DOOR AND GATE CLOSERS, IF PRESENT, SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
 - DOOR AND GATE SPRING HINGES, IF PRESENT, SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.
 - RECESSED DOORMATS SHALL BE ADEQUATELY ANCHORED TO PREVENT INTERFERENCE WITH WHEELCHAIR TRAFFIC.
 - CARPET OR TILES ADJACENT TO DOORWAY THRESHOLDS SHALL BE SECURELY ATTACHED TO THE FLOOR SURFACE.

ADA DOOR PLAN – TYPICAL (SCALE N.T.S.)



- ADA UNOBSTRUCTED SIDE REACH:
- WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.
- EXCEPTIONS: 1. AN OBSTRUCTION SHALL BE PERMITTED BETWEEN THE CLEAR FLOOR OR GROUND SPACE AND THE ELEMENT WHERE THE DEPTH OF THE OBSTRUCTION IS 10 INCHES MAXIMUM.

ADA UNOBSTRUCTED SIDE REACH

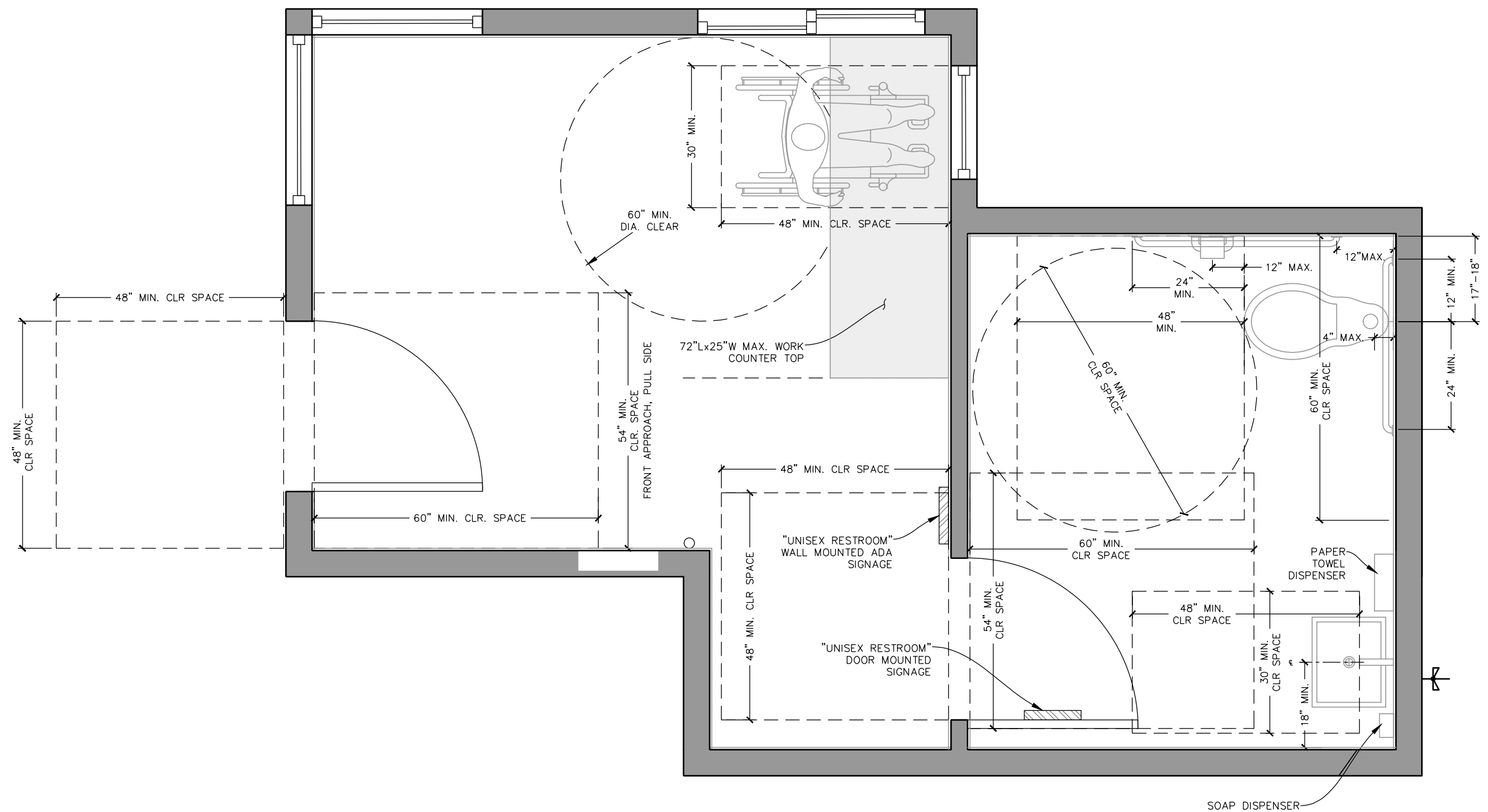


- ADA OBSTRUCTED HIGH FORWARD REACH:
- WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 306 SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM ABOVE THE FLOOR WHERE THE REACH DEPTH OVER THE OBSTRUCTION IS 20 INCHES MAXIMUM. THE HIGH FORWARD REACH SHALL BE 44 INCHES MAXIMUM ABOVE THE FLOOR WHERE THE REACH DEPTH OVER THE OBSTRUCTION IS GREATER THAN 20 INCHES AND NOT MORE THAN 25 INCHES MAXIMUM.

ADA OBSTRUCTED HIGH FORWARD REACH



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	ROAD NO.: PROJECT NO.: 438005	ENGINEERING		
	DRAWING FILE NAME: RTS_WEIGHT SHACK	DESIGNED BY: ENGR		
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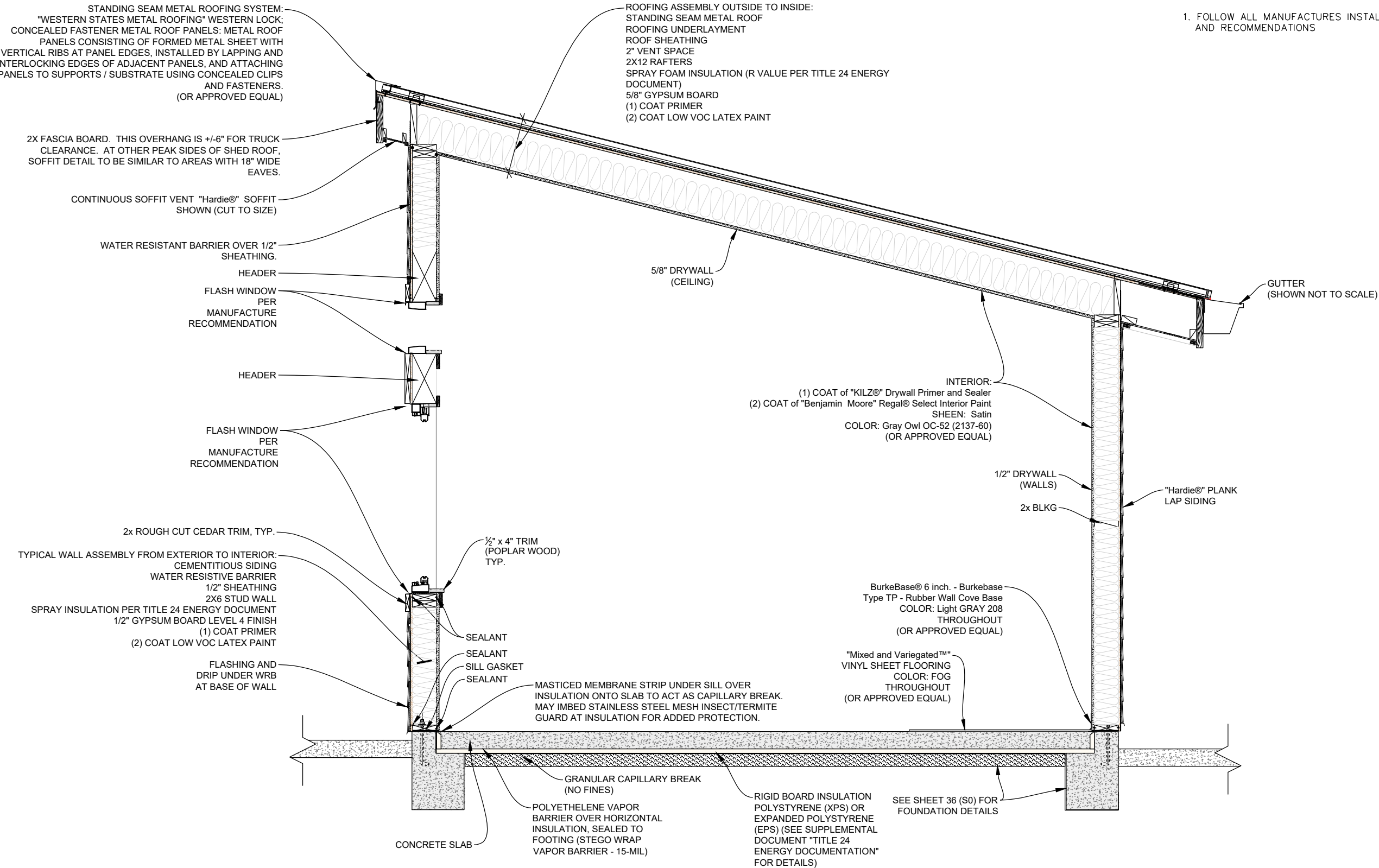


ADA FLOOR PLAN DETAILS
SCALE: 1"= 1'



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	ROAD NO.: PROJECT NO.: 438005	ENGINEERING DESIGNED BY: ENGR		
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NOTE:
1. FOLLOW ALL MANUFACTURES INSTALLATION AND RECOMMENDATIONS

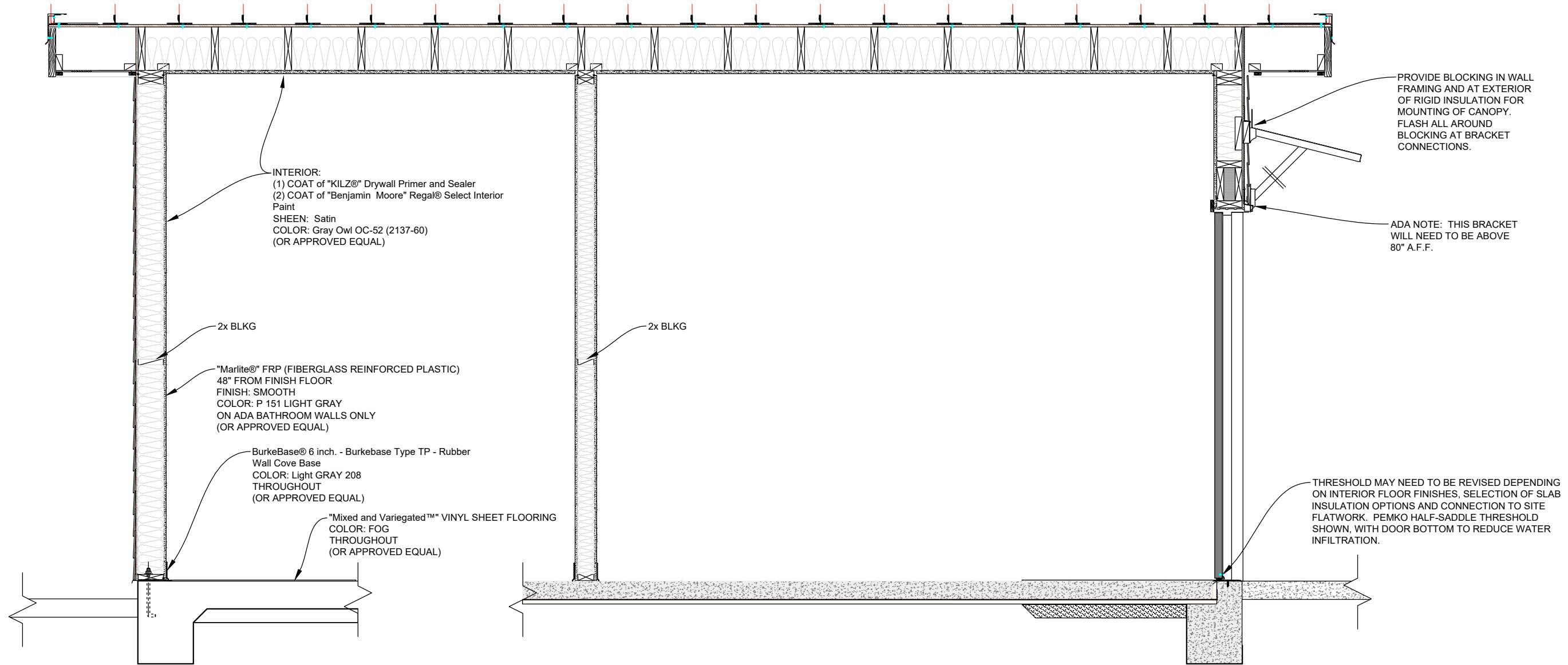


SECTION A-A

SCALE: 1"= 1'



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SECTION B-B

SCALE: 1"= 1'

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SPECIFICATIONS

GENERAL

- THESE STANDARD DETAIL DRAWINGS ARE DEVELOPED TO SHOW OUR REQUIREMENTS FOR COMMON CONSTRUCTION DETAILS AND TO AID IN THE INTERPRETATION OF OUR STANDARD SCHEDULES. DIFFERENCES IN DIMENSIONS OR ARRANGEMENTS ARE SHOWN ON PLANS OR SPECIFIC DETAILS. IT IS UP TO THE BUILDER TO INTERPRET THESE STANDARD DETAILS AS THEY APPLY TO CONDITIONS WHICH ARE SIMILAR AND NOT DETAILED SEPARATELY.
- SIZES OF MEMBERS AND DIMENSIONS ARE TYPICALLY SHOWN ON PLANS, BUT ANY LARGER SIZES WHICH MAY BE SHOWN ON A DETAIL CONTROL. IF NO SIZE OF A MEMBER IS GIVEN, C.B.C. CONVENTIONAL CONSTRUCTION PROVISIONS SHALL APPLY TO THAT MEMBER. THE ONLY CERTAIN WAY TO RESOLVE A VAGUE OR CONFLICTING SPECIFICATION IS TO CONTACT THE ENGINEER.
- OUR DESIGN IS BASED ON THE ASSUMPTION THAT THE INDIVIDUAL RESPONSIBLE FOR EXECUTING THIS CONSTRUCTION IS EXPERIENCED AND CAPABLE IN THE BUILDING PRACTICES INVOLVED IN THIS DESIGN. THIS INDIVIDUAL IS HEREAFTER REFERRED TO AS THE "CONTRACTOR."

LUMBER

- ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE FOLLOWING GRADES U.N.O.
 - STUDS, PLATES, BLOCKING (SUPPORTING ONLY ROOF & LESS THAN 8' LONG). CONST. OR BTR.
 - STUDS, PLATES, BLOCKING (SUPPORTING FLOOR OR MORE THAN 8' LONG). #2 OR BTR.
 - JOISTS AND PLANKS (2X AND 4X). #2 OR BTR.
 - POSTS AND TIMBERS, BEAMS AND STRINGERS (4X, 6X AND LARGER). #1 OR BTR.
- WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH OR FOUNDATION GRADE REDWOOD. ALL CUTS IN P.T. D.F. MEMBERS SHALL BE TREATED WITH APPROVED COMPOUND. JOISTS, GIRDERS, OR STUDS WHICH ARE NOT P.T. D.F. NOR FOUNDATION GRADE REDWOOD SHALL BE SEPARATED FROM CONCRETE OR MASONRY BY A MINIMUM OF 1/2" AIRSPACE, OR BY GALVANIZED SHEET METAL PROTECTED FROM WEATHER.
- ALL STRUCTURAL LUMBER SHALL BE MARKED, DRESSED, AND GRADED IN ACCORDANCE WITH A.S.T.M. (D-245-70 & D255-70), HANDBOOK NO. 72 OF THE U.S.D.A. AND VOLUNTARY PRODUCT STANDARD OF THE US DEPARTMENT OF COMMERCE.
- ALL STRUCTURAL PLYWOOD SHALL BE C-D TYPE OR BETTER WITH EXTERIOR GLUE. FLOOR PLYWOOD SHALL BE OF PANEL INDEX OF 32/16 OR BETTER U.N.O., AND SHALL BE GLUED TO JOISTS WITH AN APPROVED ADHESIVE.
- 2X OR WIDER SOLID BLOCKING SHALL BE PLACED BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS UNLESS SUCH MEMBERS ARE IN HANGERS AND SHOWN TO HAVE NO BLOCKING, AND AT 8' MAX. ON CENTER FOR 2X FRAMING MEMBERS AND DEEPER AND FOR TRUSSES. SEE PLANS FOR BLOCKING REQUIREMENTS FOR TRUSSES. WHENEVER BLOCKING IMPEDES REQUIRED VENTILATION, IT SHALL BE DRILLED WITH CIRCULAR OPENINGS LESS THAN 1/2 THE BLOCK WIDTH IN DIAMETER TO PROVIDE VENTILATION U.N.O. BLOCKS WHICH ARE UNSOUND SHALL NOT BE USED. WALLS SHALL HAVE FIRE BLOCKING AT 10' O.C. MAX.
- STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PLUMBING AND ELECTRICAL UNLESS SPECIFICALLY NOTED OR DETAILED. 2x STUDS LESS THAN 8' LONG AND 2x STUDS LESS THAN 10' LONG MAY BE NOTCHED OR BORED PER C.B.C. "KING" STUDS OR MULLIONS (AT EDGES OF OPENINGS AND CONTINUOUS FROM PLATE TO PLATE) SHALL NOT BE NOTCHED.
- ALL GLU-LAM MEMBERS SHALL BE GRADE 24F-V4 Df/Df, U.N.O.
- ALL 1/2" PLYWOOD SHALL BE APA RATED 5 PLY, MINIMUM.

STRUCTURAL HARDWARE

- ALL CONCEALED BOLTS AND OR NUTS SHALL BE RE-TIGHTENED PRIOR TO APPLYING COVERINGS.
- HARDWARE SIZE, EMBEDMENT, FASTENERS, AND MEMBERS RECEIVING FASTENERS SHALL MEET THE MOST STRINGENT OF THE SPECIFICATIONS OR THE STANDARD OR SPECIFIC DETAIL. WHERE INTERSECTIONS OF HARDWARE ASSEMBLIES APPEAR TO CONFLICT WITH THE REQUIREMENTS OF ANY INDIVIDUAL STRUCTURAL DETAIL OR INTERFERE WITH STRUCTURAL CONTINUITY, OR UNCERTAINTIES ABOUT INSTALLATION OF THE HARDWARE EXIST, CONTACT THE ENGINEER BEFORE CONTINUING THIS WORK.
- ALL MANUFACTURED METAL CONNECTORS INDICATED IN DRAWINGS ARE "SIMPSON STRONG TIE" UNLESS OTHERWISE SHOWN. SUBSTITUTIONS MAY BE MADE WITH HARDWARE I.C.C. RATED TO PERFORM EQUAL OR BETTER THAN THE SPECIFIC SIMPSON HARDWARE. CONTRACTOR SHALL TAKE RISK FOR THE SUITABILITY OF ANY SUBSTITUTION HARDWARE NOT SPECIFICALLY AUTHORIZED BY ENGINEER.
- ALL STEEL PLATES SHALL BE OF A36 STEEL, OR BETTER U.N.O.. ALL ROD AND BOLT STEEL SHALL BE OF A307, C1008 OF AMERICAN MANUFACTURE, OR EQUIVALENT, OR BETTER, U.N.O. ALL WELDING ROD SHALL BE E70XX, U.N.O.
- SHOP DRAWINGS OF ANY CUSTOM FABRICATED HARDWARE OR STRUCTURAL MEMBER SHALL BE PROVIDED FOR THE ENGINEER'S AND CONTRACTOR'S REVIEW. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR DIMENSIONS AND FIT OF SUCH ITEMS, AND PRIOR TO MANUFACTURE, SHALL NOTIFY THE ENGINEER OF ANY UNSUITABILITY OR REQUIRED CHANGE WHICH AFFECTS THE STRUCTURAL STRENGTH OF SUCH ITEMS.
- ALL NAILS AND OTHER FASTENERS FOR P.T. WOOD OR EXPOSED TO WEATHER SHALL BE STAINLESS STEEL, HOT DIPPED GALVANIZED, ZINC-COATED (Z-MAX) OR EQUAL AS DICTATED BY COMPATIBILITY WITH THE METHOD OF PRESSURE TREATMENT.

REINFORCING STEEL AND ANCHOR HARDWARE (R.S.A.H.)

- REINFORCING STEEL IN CONCRETE SHALL IN EVERY MANNER CONFORM TO A.C.I. SPECIFICATIONS.
- R.S.A.H. SHALL BE ACCURATELY PLACED AND SECURED SO THAT IT WILL NOT BE DISPLACED DURING CONCRETE PLACEMENT.
- R.S.A.H. SHALL BE FREE OF OIL, MUD, OR ANY OTHER COATING WHICH WILL ADVERSELY AFFECT BONDING TO CONCRETE. TIGHT GRAIN OXIDATION IS ACCEPTABLE.
- SPLICES IN REINFORCING STEEL SHALL BE A MINIMUM LENGTH OF 50 BAR DIAMETERS IN MASONRY CROUT AND 40 BAR DIAMETERS IN CONCRETE U.N.O. OR SHALL BE SHOWN TO CONFORM TO A.C.I. SPECIFICATIONS AS A MINIMUM.
- REINFORCING STEEL SHALL BE DEFORMED BIL-STEEL BARS CONFORMING TO A.S.T.M. (A615-68) OF GRADE 40 KSI, U.N.O.
- PROVIDE R.S.A.H. THE FOLLOWING MINIMUM PROTECTIVE CLEAR COVERING OF CONCRETE:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH THE EARTH
#6 BAR & LARGER 2"
#5 BAR & SMALLER 1 1/2"
INTERIOR SLABS, WALLS, AND JOISTS 3/4"
INTERIOR BEAMS, GIRDERS, COLUMNS 1 1/2"
- DO NOT EXCEED VERTICAL COVER REQUIREMENTS OF TOP BARS AND BOTTOM BARS OF FOOTINGS OR GRADE BEAMS BY MORE THAN 1/2" UNLESS FOOTING OR GRADE BEAM TOTAL VERTICAL DIMENSION IS INCREASED ACCORDINGLY.

CONCRETE

- ALL CONCRETE AND REINFORCEMENT SHALL CONFORM TO THE MORE STRINGENT REQUIREMENTS OF THE LATEST EDITION OF EITHER THE A.C.I., C.R.C., OR C.B.C.
- ALL CONCRETE SHALL ATTAIN A MINIMUM STRENGTH OF 3000 P.S.I. IN 28 DAYS U.N.O. DESIGN MIXTURE SHALL BE 5-1/2 SACK CEMENT PER CUBIC YARD CONCRETE. COARSE AGGREGATE SHALL BE 3/4" U.N.O. THE USE OF A DESIGN PUMP MIXTURE MAY BE SUBSTITUTED IF THE CEMENT RATIO IS INCREASED TO 6 SACKS U.N.O.
- ALL CEMENT SHALL BE PORTLAND TYPE I OR TYPE II OF A.S.T.M. (C-150)
- THERE SHALL BE NO ADMIXTURES USED UNLESS SPECIFIED OR APPROVED BY THE ENGINEER.
- CONCRETE SLUMP SHALL BE A MAXIMUM OF 4" ±1" FOR VIBRATED CONCRETE. ALL CONCRETE SHALL BE VIBRATED AND PLACED IN ACCORDANCE WITH A.S.T.M. (C-143) U.N.O.
- ALL CONCRETE SHALL BE CURED BY KEEPING THE EXPOSED SURFACES CONTINUOUSLY MOIST FOR A 7 DAY PERIOD AND BY USING AN APPROVED CURING COMPOUND AFTER 7 DAY WET CURE.
- ALL CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- SLABS SHALL NOT EXCEED 20' IN ANY DIRECTION WITHOUT A CONTROL JOINT PERPENDICULAR TO THAT DIRECTION U.N.O.
- THE ENGINEER SHALL BE NOTIFIED PROMPTLY OF: CONCRETE WHICH SHOWS HONEYCOMBING, SPALLING, CRACKING, OR OTHER SIGNS OF INADEQUATE STRENGTH; LACK, MISPLACEMENT, OR UNDER SIZING OF ANCHOR HARDWARE; ANY UNCERTAINTY ABOUT HARDWARE OR REINFORCEMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PLACING OF CONCRETE.
- THE BUILDING INSPECTOR AND, WHEN SPECIFIED, ENGINEER SHALL INSPECT REINFORCEMENT AND HARDWARE BEFORE CONCRETE IS PLACED.
- ALL FALSEWORK AND FORMING DESIGN AND CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. FALSEWORK MUST STAY IN PLACE UNTIL CONCRETE REACHES A STRENGTH OF 2000 P.S.I.
- CONCRETE CYLINDER SAMPLES SHOULD BE TAKEN THROUGHOUT EACH STAGE OF THE FOUNDATION PLACEMENT AND TESTED FOR COMPRESSIVE STRENGTH WHERE MINIMUM REQUIRED STRENGTH IS GREATER THAN 3000 P.S.I.

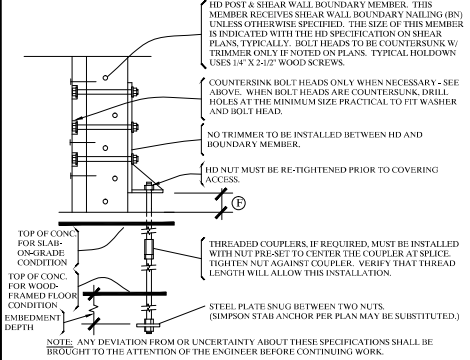
FOUNDATIONS

- ALL APPLICABLE NOTES ON CONCRETE, MASONRY, REINFORCING STEEL, AND ANCHOR HARDWARE SHALL APPLY.
- THE FOOTING WIDTHS, DEPTHS, AND STEM WALL THICKNESS ARE TYPICALLY INDICATED ON THE FOUNDATION PLAN AND DETAILS. THE LARGER DIMENSION OF EITHER CASE CONTROLS THE DESIGN. WHERE A DIMENSION IS NOT GIVEN, THE C.B.C. CONVENTIONAL CONSTRUCTION SIZES SHALL BE USED, IF APPROPRIATE.
- THE FOOTING DEPTH IS THE VERTICAL DISTANCE BELOW THE LOWER OF COMPETENT SOIL OR FINISH GRADE U.N.O. THE BOTTOM OF THE FOOTING SHALL NOT SLOPE MORE THAN 1:10.
- THE FOUNDATION IS DESIGNED ON THE BASIS OF EITHER A GEOTECHNICAL INVESTIGATION BY ANOTHER AGENT OF THE OWNER, OR ON THE ASSUMPTION THAT THE SITE MEETS OR EXCEEDS C.B.C. SOIL STRENGTH DESIGN VALUES. WHEN THIS SITE IS NOT INSPECTED BY THE ENGINEER PRIOR TO DESIGN, AND NO GEOTECHNICAL INVESTIGATION IS PERFORMED, IT IS THE RESPONSIBILITY OF THE OWNER, HIS AGENT(S), AND HIS CONTRACTOR WHO HAVE INSPECTED THE SITE TO BRING TO THE ATTENTION OF THE ENGINEER ANY INDICATIONS THAT THIS SITE IS SUB-STANDARD OR POORLY SUITED FOR A TYPICAL FOUNDATION BECAUSE OF GRADE, WATER TABLE, FILL ROCKS, POOR SOIL, EXCESSIVE ORGANIC MATTER OR ANY OTHER REASON.
- THE SITE SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION IN ALL DIRECTIONS. SWALE, BACKFILL, OR WATER-PROOF RETAINING WALLS WITH DRAINS SHALL BE ADDED TO ACHIEVE DRAINAGE IF NECESSARY. IN NO CASE SHALL FINISH GRADE HEIGHT BE WITHIN 6" OF NON-CONCRETE ELEMENTS OF THE STRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING HEIGHTS OF STEM WALLS AND SLABS TO SATISFY THE REQUIREMENTS.
- SLABS SHALL BE INSTALLED PER THE APPLICABLE SOILS REPORT, IF ANY. SLAB THICKNESS SHALL NOT BE LESS THAN 4". SLAB SHALL BE UNDERLAIN WITH A MINIMUM OF: 2" SAND, A CONTINUOUS 10 MIL VAPOR BARRIER, 4" FREE DRAINING AGGREGATE U.N.O. IN NO CASE SHALL THE VAPOR BARRIER BE PLACED NEXT TO OR DIRECTLY BELOW THE CONCRETE SLAB.
- ALL REINFORCING STEEL SHOULD BE PLACED PER ATTACHED PLAN. SLAB ON GRADE REINFORCING STEEL MAY BE SET ON TYP. DOBBIE BLOCK.
- C.B.C. CRAWL SPACE REQUIREMENTS FOR CLEARANCE, ACCESS, AND VENTILATION SHALL BE ADHERED TO. NEITHER ACCESS NOR ANY OTHER FEATURE SHALL ALLOW WATER TO ENTER CRAWL SPACE. WHERE GRADE IS CUT TO PROVIDE CRAWL SPACE CLEARANCE, ADEQUATE PROVISIONS SHALL BE MADE TO DRAIN WATER FROM THE CRAWL SPACE AND AWAY FROM THE STRUCTURE.
- ALL REQUIRED FILL OR BACKFILL SUPPORTING ANY PART OF A SLAB OR STRUCTURE SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE A.S.T.M. (D-1557-91) METHOD OF COMPACTION. THE USE OF NON-TESTED AGGREGATE FILLS MAY SOMETIMES BE USED.
- PRIOR TO POURING CONCRETE ALL LOOSE SOIL, DEBRIS, ORGANIC MATTER, OR STANDING WATER SHALL BE REMOVED FROM TRENCHES AND FORMED AREAS.

SCHEDULES

HOLDOWN SCHEDULE

HOLDOWN SIZE	Ⓐ	HPAHD2	HDU2	HDU4	HDU5	HDU8	HDU11	HDU14
ROD DIAMETER	Ⓓ	--	5/8"	5/8"	5/8"	7/8"	1"	1"
MIN. ROD EMBEDMENT	Ⓔ	--	12 5/8"	16 5/8"	20 5/8"	24 7/8"	24"	24"
# OF 16d IN DBL STUD	Ⓓ	--	24	30	38	--	--	--
MIN. DBL STUD LENGTH	Ⓓ	--	96"	108"	120"	--	--	--
STAB ANCHOR	Ⓓ	--	SSTB16	SSTB20	SSTB24	SSTB28	SB1X30 (16"x12" MIN.)	SB1X30 (16"x12" MIN.)



NOTES

- INSTALLATION MUST BE IN ACCORDANCE WITH SIMPSON SPECIFICATIONS.
- ROD TO BE A307 STEEL, C1008 STEEL, OR EQUIVALENT, OR BETTER. SIMPSON STAB ANCHOR AS SPECIFIED MAY BE SUBSTITUTED.
- REFER TO STRUCTURAL DETAILS ALSO. ROD EMBEDMENT MAY BE SPECIFIED DIFFERENTLY. THESE DEPTHS ARE FOR 2500 PSI CONCRETE.
- THIS NAILING APPLIES WHERE 2-2XNS ARE BEING USED TO ACT AS A 3" MEMBER.
- NAILING IS FOR BOX NAILS IN 2X. USE POST AS NOTED ON PLANS.
- THIS IS FOR TWO ROWS OF 16d NAILING WITH 6-8" BETWEEN NAILS AND 4" END DISTANCES. LONGER LENGTHS AND SPACING PREFERRED.
- DISTANCE FROM TOP OF PLATE TO TOP OF HD SHOE. CONSULT SIMPSON
- APPLIES TO MONO POUR CONDITION AND IF NO HOLDOWN IS SPECIFIED ON THE PLAN. IF SLAB IS TO BE POURED SEPARATELY BELOW HOLDOWN SOLE PLATE AND STEM WALL, USE NEXT LONGEST STAB BOLT (4-4") WITH 10' LONG STAB ANCHORS (SSTB1") AT 3X SOLE PLATE.

SHEAR WALL SCHEDULE

SYM	SHEAR WALL	PANEL MATERIAL	PLYWOOD FASTENERS SPACING	LOAD TRANSFER	Q	NOTES
260	1/2" CDX PLY	8d 6"	1 1/2" 16 GA. 12" 16 GA.	16d 4"	A35 5/8" A36	
350	1/2" CDX PLY	8d 4"	1 1/2" 16 GA. 12" 16 GA.	3" 6"	4" 16"	32"
490	1/2" CDX PLY	8d 3"	1 1/2" 16 GA. 12" 16 GA.	2" 6"	3" 12"	24"
640	1/2" CDX PLY	8d 2"	1 1/2" 16 GA. 12" 16 GA.	3" 6"	2" 8"	16"
260	5/8" T1-11	8d 6"	1 1/2" 16 GA. 12" 16 GA.	4" 6"	6" 16"	48"
350	5/8" T1-11	8d 4"	1 1/2" 16 GA. 12" 16 GA.	4" 6"	4" 16"	32"
490	5/8" T1-11	8d 3"	1 1/2" 16 GA. 12" 16 GA.	3" 6"	3" 12"	24"
640	5/8" T1-11	8d 2"	1 1/2" 16 GA. 12" 16 GA.	2" 6"	2" 8"	16"
260	3/8" CDX PLY	8d 6"	1 1/2" 16 GA. 12" 16 GA.	4" 6"	6" 16"	48"
350	3/8" CDX PLY	8d 4"	1 1/2" 16 GA. 12" 16 GA.	3" 6"	4" 16"	32"
490	3/8" CDX PLY	8d 3"	1 1/2" 16 GA. 12" 16 GA.	2" 6"	3" 12"	24"
640	3/8" CDX PLY	8d 2"	1 1/2" 16 GA. 12" 16 GA.	3" 6"	2" 8"	16"
310	1/2" CDX PLY	10d 6"	1 1/2" 16 GA. 12" 16 GA.	4" 6"	4" 16"	32"
460	1/2" CDX PLY	10d 4"	1 1/2" 16 GA. 12" 16 GA.	2" 6"	3" 12"	24"
600	1/2" CDX PLY	10d 3"	1 1/2" 16 GA. 12" 16 GA.	--	2" 8"	24"
770	1/2" CDX PLY	10d 2"	1 1/2" 16 GA. 12" 16 GA.	--	6" 16"	10"
870	1/2" STRUCT 1	10d 2"	1 1/2" 16 GA. 12" 16 GA.	--	6" 16"	10"

NOTES

- ALL ANCHOR BOLTS AND HOLDOWN BOLTS ARE TO BE IN PLACE PRIOR TO PLACING CONCRETE.
- DOUBLE-SIDED SHEAR WALLS REQUIRE DOUBLE THE AMOUNT OF ANCHOR BOLTS, OR PLATE NAILING, STAGGER ANCHOR BOLTS OR NAILING IN DOUBLE-SIDED SHEAR WALLS.
- PLYWOOD NAILS ARE COMMON OR GALVANIZED BOX WITH FULL HEADS, WHETHER PNEUMATIC OR HAND-DRIVEN. ALL FIELD NAILING SHALL BE 12" O.C. MAXIMUM U.N.O.
- ANCHOR BOLTS ARE TO BE EMBEDDED AT LEAST 7" INTO THE CONCRETE OR MASONRY AND ARE TO BE SPACED PER THE SHEAR SCHEDULE ON ALL WALLS WITH ONE ANCHOR BOLT A MAXIMUM OF 12" FROM THE END OF EACH SILL PLATE AND NO CLOSER THAN 5" FROM THE END OF EACH SILL PLATE. TWO ANCHOR BOLTS PER SILL. ALL ANCHOR BOLTS ARE TO HAVE A 5x3x0.225" STEEL PLATE WASHER.
- SHEAR NAILING CALLED OUT ON STRUCTURAL PLANS WHERE SHEAR WALL SYMBOLS ARE NOT SHOWN TAKE PRECEDENCE OVER THOSE ON THIS SCHEDULE.
- ALL EDGE NAILS MUST BE SET IN BOTH INNER AND OUTER LAP OF PANEL EDGES. NAILS MUST BE ON THE FULL THICKNESS OF THE PLYWOOD AND NOT IN THE LAP JOINT.
- STUDS @ 16" O.C. MAXIMUM OR PLYWOOD NAILED WITH FACE GRAIN ACROSS STUDS
- FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS SHALL NOT BE LESS THAN A 3X NOMINAL MEMBER AND FOUNDATION SILL PLATES SHALL NOT BE LESS THAN A SINGLE 3X P.T. FRAMING MEMBER. ALL PANEL EDGES SHALL BE BLOCKED W/3X BLOCKING OR 2X BLOCKING LAID VERTICAL.
- 16d NAILS MAY BE UNGALVANIZED BOX NAILS. 16d & A35 SPACINGS ARE TO TRANSFER SHEAR WHERE PLYWOOD IS NOT CONTINUOUS.
- O.S.B. (ORIENTED STRAND BOARD) SHALL BE CONSIDERED EQUIVALENT TO CDX PLYWOOD.

NAILING SCHEDULE

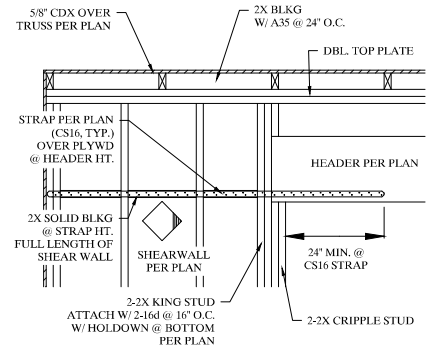
1. JOIST TO SILL, TOP PLATE, OR GIRDER: TOE NAIL	3-8d
2. BRIDGING TO JOISTS, RAFTER, OR TRUSSES: TOE NAIL EACH END	2-8d
3. 16d OR SMALLER SUBFLOOR TO EACH JOIST: FACE NAIL	2-8d
4. WIDER THAN 16d SUBFLOOR TO EACH JOIST: FACE NAIL	3-8d
5. 2x SUBFLOOR TO JOIST OR GIRDER: FACE NAIL	2-16d
6. CEILING JOIST TO GIRDER OR BEAM: MIN. FACE NAIL	2-16d @ 16" O.C.
7. SOLE PLATE TO JOIST OR BLOCKING @ BRACED WALL PANELS	2-16d @ 16" O.C.
8. TOP & BOT PLATE TO STUD: END NAIL	2-16d
9. STUD TO TOP & BOT PLATE	2-16d END NAIL
10. DOUBLED STUDS: FACE NAIL	4-8d TOE NAIL OR 2-16d END NAIL
11. DOUBLE TOP PLATES: FACE NAIL	16d @ 24" O.C.
12. DOUBLE TOP PLATES, 4" MIN. SPlice: FACE NAIL	16d @ 16" O.C.
13. BLOCKING JOISTS OR RAFTERS TO TOP PLATE: TOE NAIL	3-8d
14. RIM JOIST TO TOP PLATE: TOE NAIL	8d @ 6" O.C.
15. TOP PLATES, LAPS, & INTERSECTIONS: FACE NAIL	2-16d
16. CONTINUOUS HEADER (2 PIECES): FACE NAIL ALONG EDGE	16d @ 16" O.C.
17. CEILING JOIST TO PARALLEL RAFTERS: FACE NAIL, MIN.	3-16d
18. CONTINUOUS HEADER TO STUD: TOE NAIL	4-8d
19. CEILING JOIST, LAPS OVER PARTITIONS: FACE NAIL	3-16d
20. CEILING JOISTS TO PARALLEL RAFTERS: FACE NAIL, MIN.	3-16d
21. RAFTER TO PLATE: TOE NAIL	3-8d
22. 1x DIAGONAL BRACE TO EACH STUD & PLATE: FACE NAIL	2-8d
23. 16d OR SMALLER SHEATHING TO EACH BEARING: FACE NAIL	3-8d
24. WIDER THAN 16d SHEATHING TO EACH BEARING: FACE NAIL	2-16d @ 24" O.C.
25. BUILT-UP CORNER STUDS	2-16d @ 16" O.C.
26. BUILT-UP GIRDER & BEAM: MIN. FACE NAIL	2M T&B @ 32" O.C., STAGGERED EA. SIDE
27. 2x PLANKS: FACE NAIL	16d @ EACH BEARING
28. COLLAR TIE TO RAFTER: FACE NAIL	3-10d
29. JACK RAFTER TO HIP	3-16d TOE NAIL OR 2-16d FACE NAIL
30. ROOF RAFTER TO 2x RIDGE BOARD: TOE OR FACE NAIL	2-16d
31. JOIST TO BAND JOIST: FACE NAIL	3-16d
32. LEDGER STRIP: FACE NAIL	3-16d @ 16" O.C.

LIMITATION OF RESPONSIBILITY

- THE ENGINEER IS MAKING AN ANALYSIS, EVALUATION, AND DESIGN OF THE PROPOSED STRUCTURE AS INTERPRETED BY OTHER PARTIES. NO EVALUATION IS MADE ABOUT THE SUITABILITY, CONSTRUCTABILITY, WEATHERPROOFING, INSECTPROOFING, SAFETY, NOR ANY OTHER FEATURE OF THIS BUILDING PROJECT EXCEPT THE ACTUAL FINISHED STRUCTURE OCCUPIED AND SITED AS DESIGNED. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ENFORCING THE CONSTRUCTION OF THIS BUILDING TO PLANS, SPECIFICATIONS, AND CODES, NOR SHALL HE BE RESPONSIBLE FOR PROBLEMS RESULTING FROM INFORMATION OR ANY DRAWING PROVIDED BY THE OWNER OR HIS AGENT(S) WHICH IS IN ERROR.
- WHERE A PARTICULAR STRUCTURAL DETAIL IS NOT SHOWN, THE ASSUMPTION IS TYPICALLY THAT THE DETAIL(S) OF THE MOST SIMILAR CONDITION(S) SHOWN IS (ARE) APPROPRIATE. WHERE NO DETAIL IS SHOWN OF ANY SIMILAR CONDITION, AND CONVENTIONAL CONSTRUCTION PRACTICES DO NOT SEEM APPROPRIATE, NOTIFY THE ENGINEER BEFORE CONTINUING THIS WORK.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR: CONSTRUCTION SAFETY, EXCAVATION SAFETY, PROTECTION OF ADJACENT STRUCTURES, TREES AND THEIR ROOTS, AND UTILITY LINES.
- IF PRESENT OR FUTURE SITE CONDITIONS INTERFERE WITH OR REQUIRE MODIFICATION TO STRUCTURE DESIGN, NOTIFY ENGINEER PROMPTLY.
- THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR VERIFYING CORRECTNESS OF DIMENSIONS BEFORE CONSTRUCTION WHERE CONFLICTS OR OMISSIONS OCCUR.

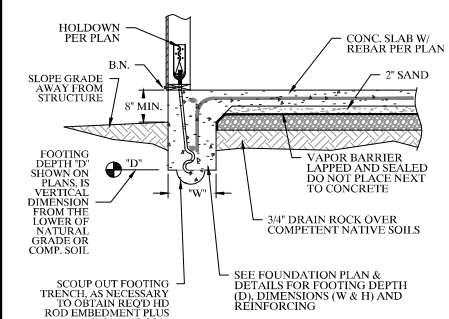
ABBREVIATIONS

AB	ANCHOR BOLT	HT	HEIGHT
AC	ASPHALTIC CONCRETE	INT	INTERIOR
ALT	ALTERNATE	LS	LAG SCREW
BDLG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MIN	MINIMUM
BN	BOUNDARY NAILING	N	NEW
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CLR	CLEAR	P	PROPOSED
COL	COLUMN	PL	PLATE
CONC	CONCRETE	RB	REBAR
CONT	CONTINUOUS	RDWD	REDWOOD
DF	DOUGLAS FIR	S	SLOPE =
DIA	DIAMETER	SAD	SEE ARCH. DRAWINGS
DBL	DOUBLE	SIM	SIMILAR
(D)	DOUBLED	SO	SQUARE
EA	EACH	STGR	STAGGERED
EF	EACH FACE	STIFF	STIFFENER
EL=	ELEVATION EQUALS	SW	SHEAR WALL
EDGE NAILING		SWN	SHEAR WALL EDGE NAILING
EN	EACH WAY	T&B	TOP & BOTTOM
EXT	EXTERIOR	TO.BM	TOP OF BEAM
FB	FACE OF BLOCK	TOP	TOP OF FRAMING
FC	FACE OF CONCRETE	TOP	TOP OF PLYWOOD
FD	FIELD NAILING	OC	ON CENTERS
FS	FACE OF STUD	OH	OPPOSITE HAND
FTNG	FOOTING	T&G	TONGUE AND GROOVE
GALV	GALVANIZED	TOC	TOP OF CURB
G	GRADE	TYP	TYPICAL
GWB	GYPSUM WALLBOARD	UNO	UNLESS NOTED OTHERWISE
HDG	HOT DIPPED GALVANIZED	WS	WOOD SCREW

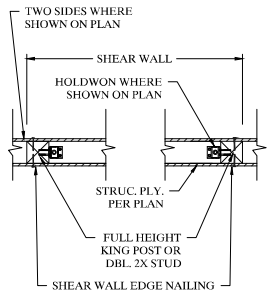


PIER WALL STRAPPING

STRUCTURAL PLAN SPECIFICATIONS TAKE PRECEDENCE OVER THESE SHOWN HERE OR ON ANY STANDARD SCHEDULE.



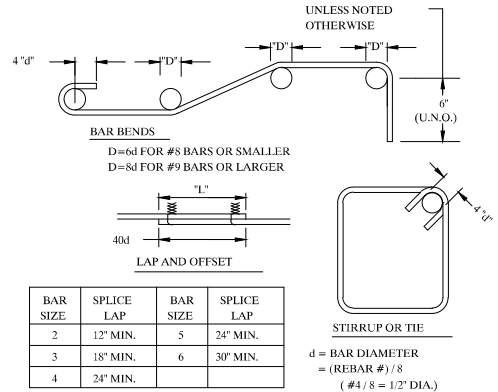
SECTION - FOOTING AT HOLDOWN



PLAN - SHEAR WALL & HOLDOWN

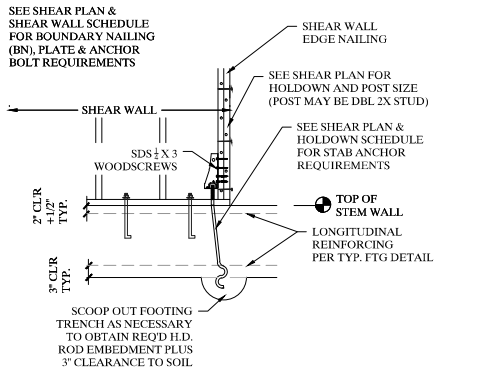
GABLE SHEAR CONNECTION

EAVE SHEAR CONNECTIONS



NOT USED

TYP. REINFORCING STEEL BENDS



TOP PLATE SPLICE

ELEVATION - FOOTING AT HOLDOWN

SHEET
36
OF
58

ATLAS
ENGINEERING

PO BOX 26
ARCATA, CA 95521
(707) 822-2822 PH & FAX
WWW.ATLASENG.NET

9/20/2024



SPECIFICATIONS & TYP. DETAILS

REDWAY TRANSFER STATION

CONSERVATION CAMP RD., REDWAY, CA 95560

APN: 222-161-002

Date:

Revision No.:

Date: 9/2

SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION SCHEDULE ¹²³⁷						
		VERIFICATION & INSPECTION	C	P	INSPECTED BY (SIGNATURE)	DATE
SOILS	1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.		X		
	2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.		X		
CONCRETE	1.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.		X		
	2.	INSPECTION OF REINFORCING STEEL & PLACEMENT.		X		
	a.	OBTAIN MILL CERTIFICATES FOR REINFORCING STEEL, VERIFY COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS, AND VERIFY STEEL SUPPLIED CORRESPONDS TO CERTIFICATE.	-	-		
	3.	INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	X			
	4.	INSPECTION OF ANCHORS INSTALLED/EPOXIED IN HARDENED CONCRETE.		X		
	5.	VERIFY USE OF REQUIRED DESIGN MIX, 3000 PSI. SAMPLE AND SLUMP ONLY. ⁵ NOTE: (1) SAMPLE (4-6" CYLINDERS PER 150 CU. YD. OF CONCRETE. (1) SAMPLE PER DAY. (1) SAMPLE PER BATCH/TRUCK IF LESS THAN (5) BATCHES		X		
	6.	INSPECTON OF CONCRETE PLACEMENT	X			
	7.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.		X		
SEISMIC ² RESISTANCE	1.	STRUCTURAL WOOD INSPECTION (NOT REQUIRED WHERE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4" O.C.)				
	a.	SHEARPLY NAILING				
		i. SHEAR WALLS		X		
		ii. FLOOR SHEATHING		X		
		iii. ROOF SHEATHING		X		
	b.	HOLDOWN & ANCHOR BOLT INSTALLATIONS		X		
	c.	LATERAL TIES, STRAPPING & MISC. SHEAR CONNECTORS (INCLUDING DRAG STRUTS & BRACES)		X		
	2.	NON-STRUCTURAL SYSTEMS AND COMPONENTS				
	a.	OBTAIN CERTIFICATE THAT NON-STRUCTURAL COMPONENTS AND DESIGNATED SEISMIC SYSTEMS HAVE BEEN TESTED PER SECTION 1708.5 OF 2010 CBC.	-	-		
	b.	VERIFY THAT THE EQUIPMENT LABEL AND ANCHORAGE OR MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE WHEN MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE SEISMICALLY QUALIFIED.		X		
	c.	PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE, COMBUSTIBLE OR TOXIC MATERIALS (NATURAL GAS)		X		
	d.	ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STAND-BY POWER SYSTEMS.		X		
	e.	ANCHORAGE OF NON-EMERGENCY ELECTRICAL EQUIPMENT		X		
	f.	ANCHORAGE OF STORAGE RACKS 8' OR GREATER IN HEIGHT (WHERE APPLICABLE).		X		
	g.	SUSPENDED CEILING AND ITS ANCHORAGE (WHERE APPLICABLE).		X		
GENERAL INSPECTIONS	1.	PERIODIC STRUCTURAL OBSERVATION SHALL OCCUR DURING DEMOLITION AND ROUGH FRAMING PRIOR TO COVERING WALLS		X		

INSPECTION NOTES:

1) ALL SPECIAL INSPECTIONS SHALL BE PROVIDED BY ATLAS ENGINEERING, UNLESS OTHER ARRANGEMENTS ARE MADE PRIOR TO INSPECTION AND CONFIRMED WITH THE ENGINEER-OF-RECORD. SOILS/EXCAVATION INSPECTIONS SHALL BE PROVIDED BY "CRAWFORD & ASSOCIATES, INC.", (916) 952-6684.

2) 48 HOURS NOTICE IS REQUIRED PRIOR TO SPECIAL INSPECTION.

3) EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

4) PROVIDE CONCRETE BATCH PLANT "RECIPE"/MIX DESIGN FOR REVIEW PRIOR TO PLACEMENT.

5) PROVIDE CERTIFICATE OF COMPLIANCE FOR ALL MATERIALS (USED FOR SEISMIC RESISTANCE) FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.

EARTHQUAKE DESIGN DATA:

I = 1.00 (OCCUPANCY CATEGORY II)
S_s = 1.922
S_i = 0.776
SITE CLASS "D"
S_{DS} = 1.281
S_{D1} = 0.776
SEISMIC DESIGN CATEGORY "E"
BASIC SEISMIC-FORCE-RESISTING SYSTEM(S):
A. BEARING WALL SYSTEMS:
13) LIGHT-FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
RATED FOR SHEAR RESISTANCE (R=6.5)
SEISMIC RESPONSE COEFFICIENT, C_s = 0.1077(ASD)
EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN DATA:

ALLOWABLE BEARING PRESSURE = 1500 PSF (MIN.)



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9/20/2024



INSPECTION SCHEDULE

REDWAY TRANSFER STATION
CONSERVATION CAMP RD. REDWAY, CA 95560
APN: 222-161-002

Date:

Revision No.:

Date: 9/20/2024

Project #: 24041

Drawn by: KIM

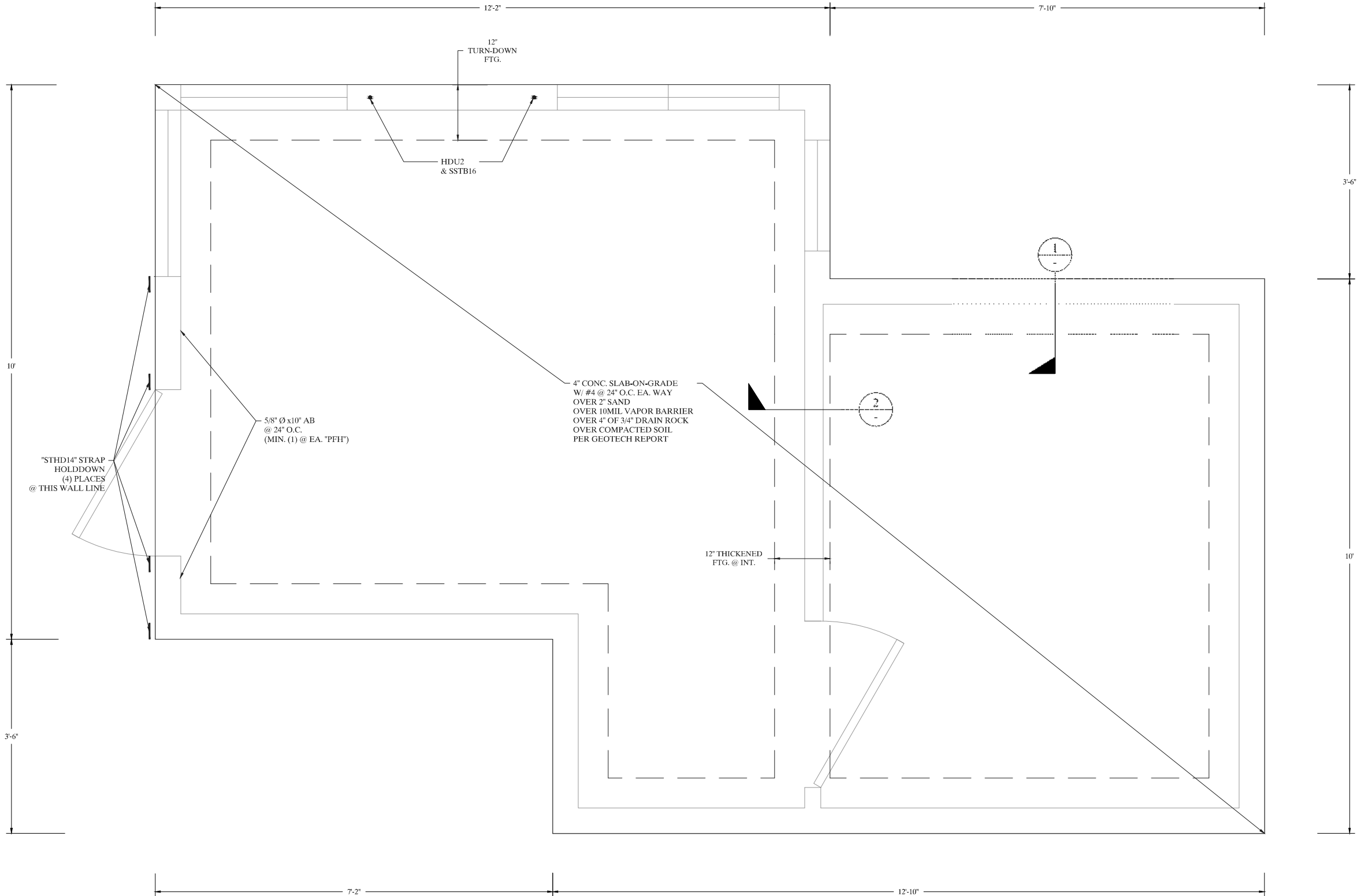
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Sheet No.

S0.1

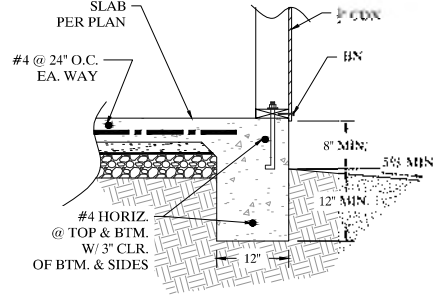
LEGEND:

C - CONTINUOUS
P - PERIODIC

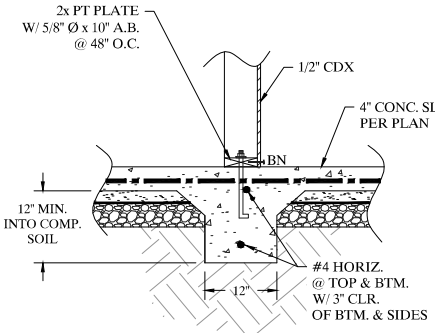


CONCRETE AND FOUNDATION NOTES:

1. REVIEW GEOTECHNICAL REPORT BY "CRAWFORD & ASSOCIATES, INC.", DATED JUNE 28, 2023, PRIOR TO START OF CONSTRUCTION FOR RECOMMENDATIONS ON EXCAVATION, GRADING AND FOUNDATION WORK. ALL RECOMMENDATIONS SHALL BE FOLLOWED, INCLUDING OVEREXCAVATION PER SECTION 7.5.3.
2. FINAL SUBGRADE SHOULD BE PROOF-ROLLED TO A FIRM SURFACE PRIOR TO THE PLACEMENT OF ANY ADDITIONAL FILL MATERIALS. SUBGRADE SHOULD BE PROTECTED FROM DRYING OR EXCESSIVE MOISTURE.
3. STRUCTURAL FILL MATERIALS SHALL MEET REQUIREMENTS OF GEOCHINICAL REPORT AS NOTED ABOVE.
4. ALL CONCRETE MIN. 3000 PSI COMMERCIAL COMPRESSIVE STRENGTH. SPECIAL INSPECTION IS REQUIRED PER SHEET S0.1.
5. ALL REINFORCING STEEL \leq #5 SHALL BE MIN. 40 KSI TENSILE STRENGTH.
6. ALL CONCRETE PADS SHALL HAVE #5 BARS @ 12" O.C. EACH WAY W/ 3" MIN. CLEARANCE FROM BOTTOM & SIDES.
7. ENGINEER SHALL INSPECT FOUNDATION EXCAVATION PRIOR TO THE PLACEMENT OF STRUCTURAL FILL OR CONCRETE. SEE SHEET S0.1.
8. SOIL BEARING PRESSURE IS ASSUMED TO BE 1,500 PSF (MIN.).
9. ALL WOOD MEMBERS IN DIRECT CONTACT WITH CONCRETE AND ALL WOOD MEMBERS LOCATED WITHIN 8" OF EARTHEN MATERIALS SHALL BE PRESSURED TREATED D.F.
10. ANCHOR BOLTS SHALL BE MIN. 5/8" DIAMETER A307 STEEL WITH 3X3X0.229" PLATE WASHERS. BOLTS SHALL BE EMBEDDED A MINIMUM OF 7" INTO CONCRETE, SPACED NOT MORE THAN 48" O.C. PROVIDE A MINIMUM OF TWO BOLTS PER SILL, WITH ONE BOLT LOCATED NOT MORE THAN 5" OR LESS THAN 7 BOLT DIAMETERS FROM EACH END.
11. FOLLOW ALL MANUFACTURERS INSTALLATION GUIDELINES FOR SPECIFIED HOLDOWN ANCHORS AND HARDWARE.
12. REFER TO SHEARWALL AND HOLDOWN SCHEDULES FOR ADDITIONAL REQUIREMENTS, ALL WALL LINES.
13. ALL NAILS AND OTHER FASTENERS FOR PRESSURE TREATED WOOD OR EXPOSED TO WEATHER SHALL BE STAINLESS STEEL, HOT DIPPED GALVANIZED, ZINC-COATED (Z-MAX) OR EQUAL AS DICTATED BY COMPATIBILITY WITH THE METHOD OF PRESSURE TREATMENT.



TYPICAL EXTERIOR FOOTING 3/4" = 1'-0"



TYPICAL EXTERIOR FOOTING 3/4" = 1'-0"

NOT USED N.T.S.

NOT USED N.T.S.

SCALE NOTE: THE DISPLAYED SCALE IS HALVED WHEN PRINTED ON 11"x17" SHEETS

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9/20/2024

C 88893
EXP 9-30-25
CIVIL
STATE OF CALIFORNIA

FOUNDATION PLAN & DETAILS

REDWAY TRANSFER STATION
CONSERVATION CAMP RD. REDWAY, CA 95560
APN: 222-161-002

Date:

Revision No.:

Date: 9/20/2024

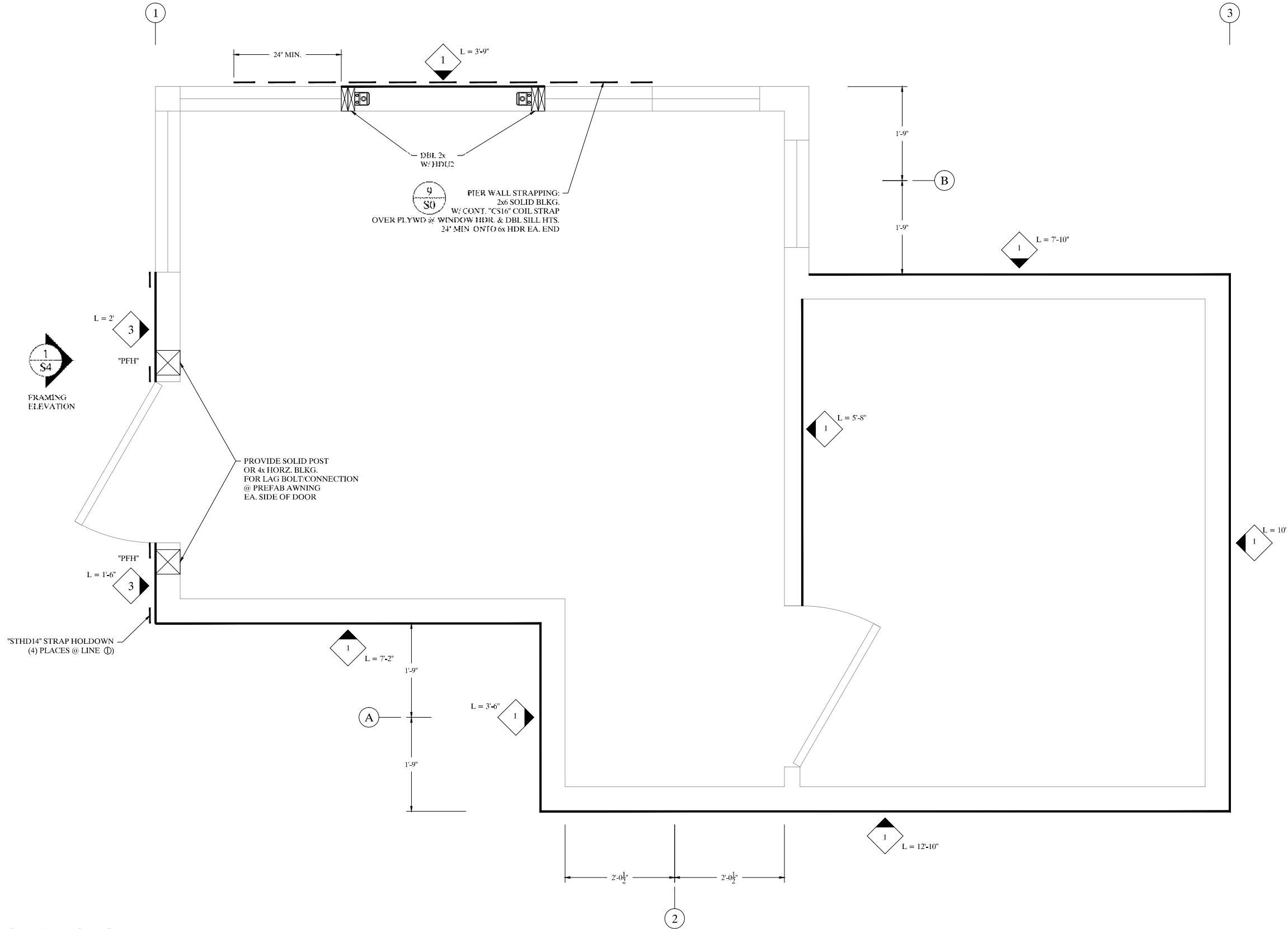
Project #: 24041

Drawn by: KIM

Scale: 1"-1'-0"

Sheet No.

S1



SHEAR NOTES:

1. SEE S0 SHEET FOR SHEAR SCHEDULE, NAILING SCHEDULES, AND ADDITIONAL INFORMATION.
2. INSTALL 1/2" CDX W/ 8d @ 6" BN / 12 FN ON ALL SHEATHABLE EXTERIOR SURFACES, UNLESS NOTED OTHERWISE ON SHEAR PLAN.
3. ATTACH HDU2 TO DBL 2x STUD SISTERED TOGETHER W/ 2-16d @ 12" O.C.
4. "L=x" DENOTES MINIMUM WIDTH OF SHEAR WALL. CONTACT ENGINEER-OF-RECORD IF MINIMUM WALL WIDTH IS NOT ACHIEVABLE.
5. 2x6 SOLID FIRE BLOCKING REQUIRED AT 10' MAX HEIGHT IN ALL TALL EXTERIOR WALLS.

SYM	SHEAR VALUE	PANEL MATERIAL	PLYWOOD FASTENER/SPACING		LOAD TRANSFER		
			NAIL	EN/BN	16d	A35	5/8" A.B.
1	260 plf	1/2" CDX PLY	8d	6"	6"	16"	48"
3	490 plf	1/2" CDX PLY	8d	3"	3"	12"	24"

SCALE NOTE: THE DISPLAYED SCALE IS HALVED WHEN PRINTED ON 11"x17" SHEETS

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9/20/2024

SHEAR PLAN

REDWAY TRANSFER STATION
CONSERVATION CAMP RD. REDWAY, CA 95560
APN: 222-161-002

Date:			
Revision No.:			

Date: 9/20/2024

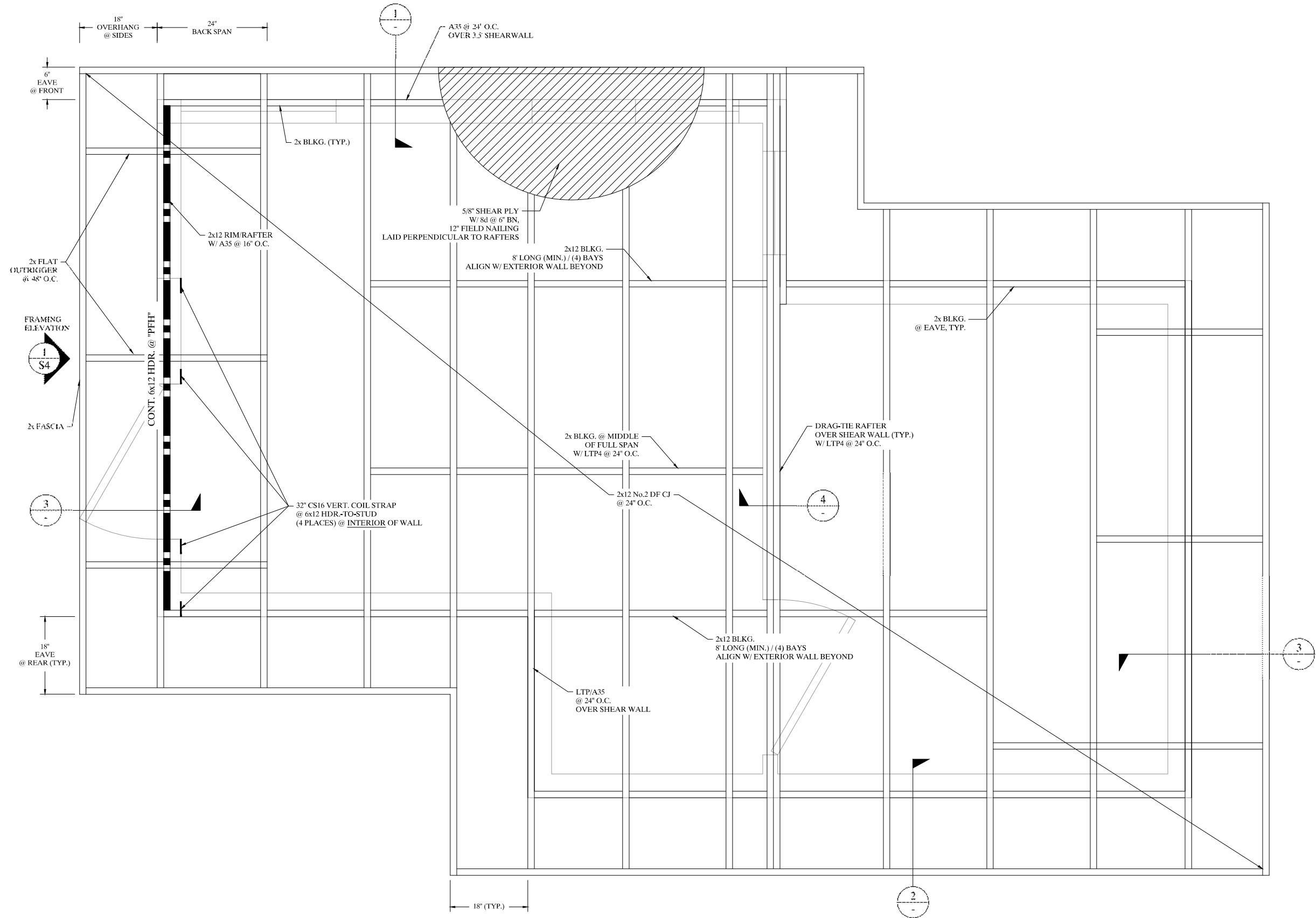
Project #: 24041

Drawn by: KIM

Scale: 1"-1'-0"

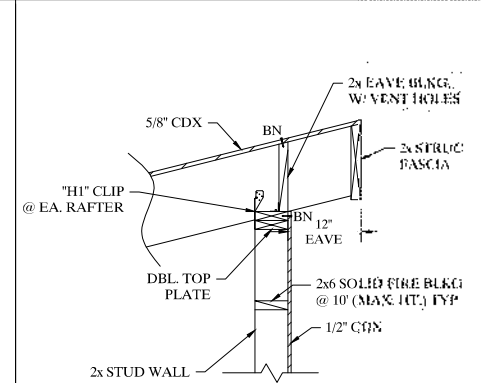
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S2

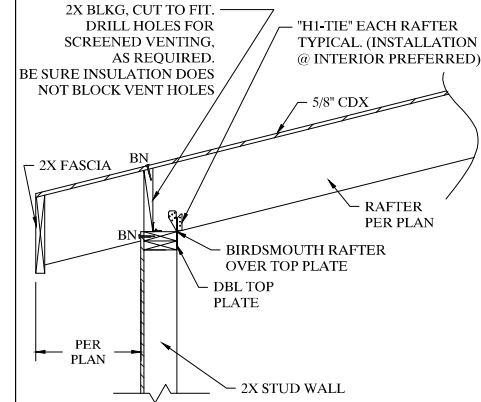


ROOF FRAMING NOTES:

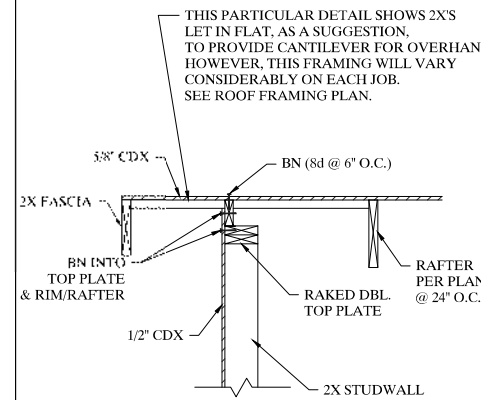
1. PROVIDE "H1-TIE" (OR EQUIVALENT) AT EACH RAFTER-TO-PLATE CONNECTION, UNLESS OTHERWISE NOTED.
2. ROOF SHEATHING SHALL BE $\frac{5}{8}$ " CDX NAILED W/ 8d COMMONS @ 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD (PANEL EDGES UNBLOCKED).
3. TOP PLATE SPLICES SHALL BE MIN. 48" OVERLAP AND SHALL BE NAILED W/ NO LESS THAN (8) 16d FACE NAILS ON EACH SIDE OF THE SPLICE. SEE DETAIL 8/S0.
4. ALL EXT. HEADERS MIN. 6x8 DF #1 W/ 2x6 KING & TRIMMER STUD EA. END, UNLESS OTHERWISE NOTED.
5. 2x6 SOLID FIRE BLOCKING REQUIRED AT 10' MAX HEIGHT IN ALL TALL EXTERIOR WALLS.



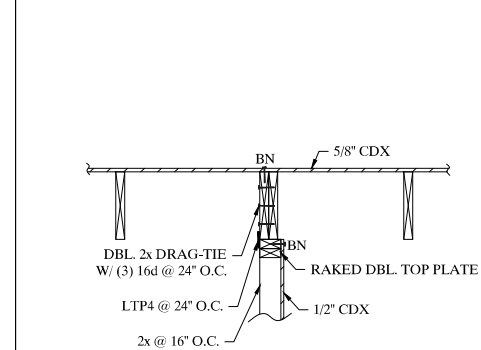
UPPER EAVE SHEAR CONNECTION $\frac{3}{4}$ " = 1'-0" 1



LOWER EAVE SHEAR CONNECTIONS $\frac{3}{4}$ " = 1'-0" 2



RAKED SHEAR WALL CONNECTIONS $\frac{3}{4}$ " = 1'-0" 3



INTERIOR SHEAR DRAG-TIE $\frac{1}{4}$ " = 1'-0" 4

SCALE NOTE: THE DISPLAYED SCALE IS HALVED WHEN PRINTED ON 11"x17" SHEETS

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9/20/2024

REGISTERED PROFESSIONAL ENGINEER

STATE OF CALIFORNIA

C 68893

EXP. 9-30-25

ROOF FRAMING PLAN AND DETAILS

REDWAY TRANSFER STATION
CONSERVATION CAMP RD. REDWAY, CA 95560
APN: 222-161-002

Date:			
Revision No.:			

Date: 9/20/2024

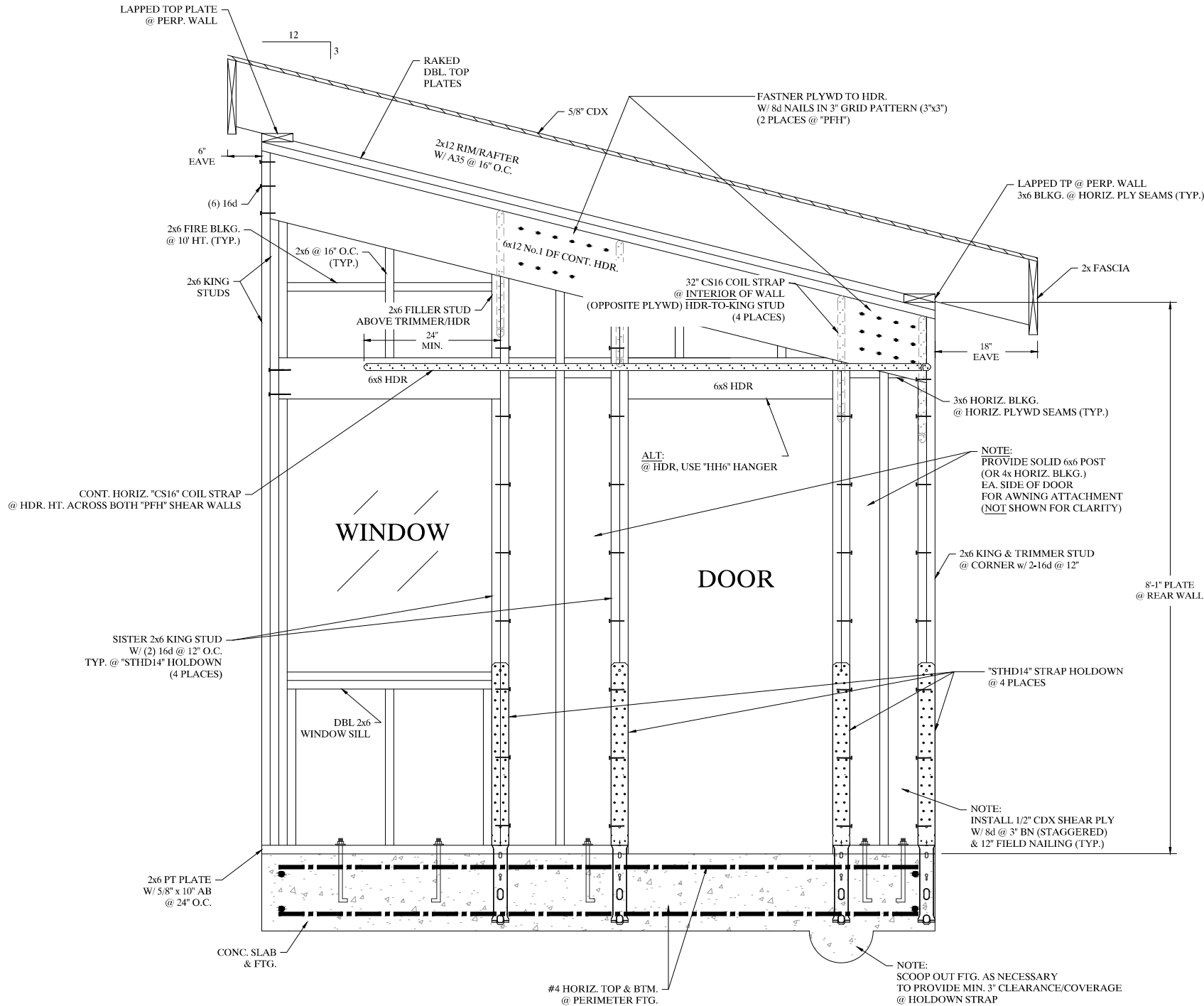
Project #: 24041

Drawn by: KIM

Scale: 1"-1'-0"

Sheet No.

S3



FRAMING ELEVATION @ LINE ①/ "PFH" ("PORTAL FRAME WITH HOLDOWNS")

1"=1'-0"

1

SCALE NOTE: THE DISPLAYED SCALE IS HALVED WHEN PRINTED ON 11"x17" SHEETS



STRUCTURAL DETAILS

REDWAY TRANSFER STATION
CONSERVATION CAMP RD. REDWAY, CA 95560
APN: 222-161-002

Date:	
Revision No.:	

Date: 9/20/2024

Project #: 24041

Drawn by: KIM

Scale: 1"=1'-0"

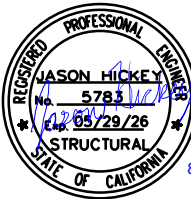
Sheet No.

S4

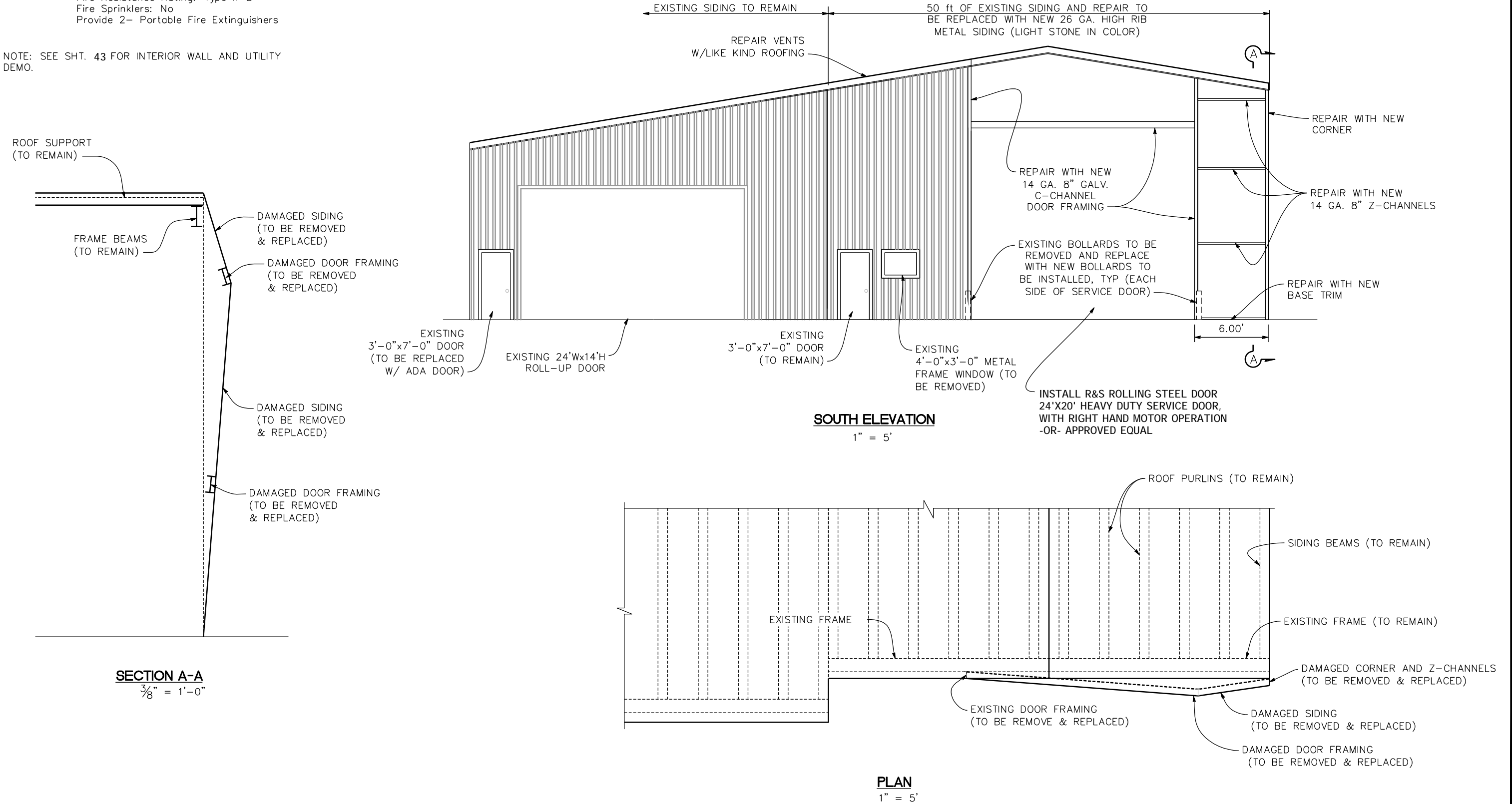
DESIGN CODE: 2022 California Building Code, 2022 California Mechanical Code, 2022 California Electrical Code, 2022 California Plumbing Code, 2022 California Energy Code, 2022 California Green Building Standards Code, 2022 California Fire Code.

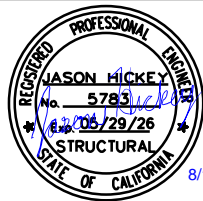
Occupancy: F-2 Low Hazard Factory Industrial
Occupant Load = 4100 SQFT /100 SQFT Occupancy Factor = 41
Construction Type: Type I
of Stories = 1
Size = 4100 SQFT
of Exits = 2
Fire Resistance Rating: Type II-B
Fire Sprinklers: No
Provide 2- Portable Fire Extinguishers

NOTE: SEE SHT. 43 FOR INTERIOR WALL AND UTILITY DEMO.



ROAD NAME: CONSERVATION CAMP RD		HUMCO		COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 42 OF 58
ROAD NO:	MILE POST:	DESIGNED BY: ENGR			
PROJECT NO.: 438005		DRAWN BY: PBS		REDWAY TRANSFER STATION	
DRAWING FILE NAME: RTS-Recycling Building.dwg		REVIEWED BY: JAB		TRANSFER BUILDING REPAIRS	
PLOT DATE: 08/19/2025	REVISION DATE:	APPROVED BY: TRS			

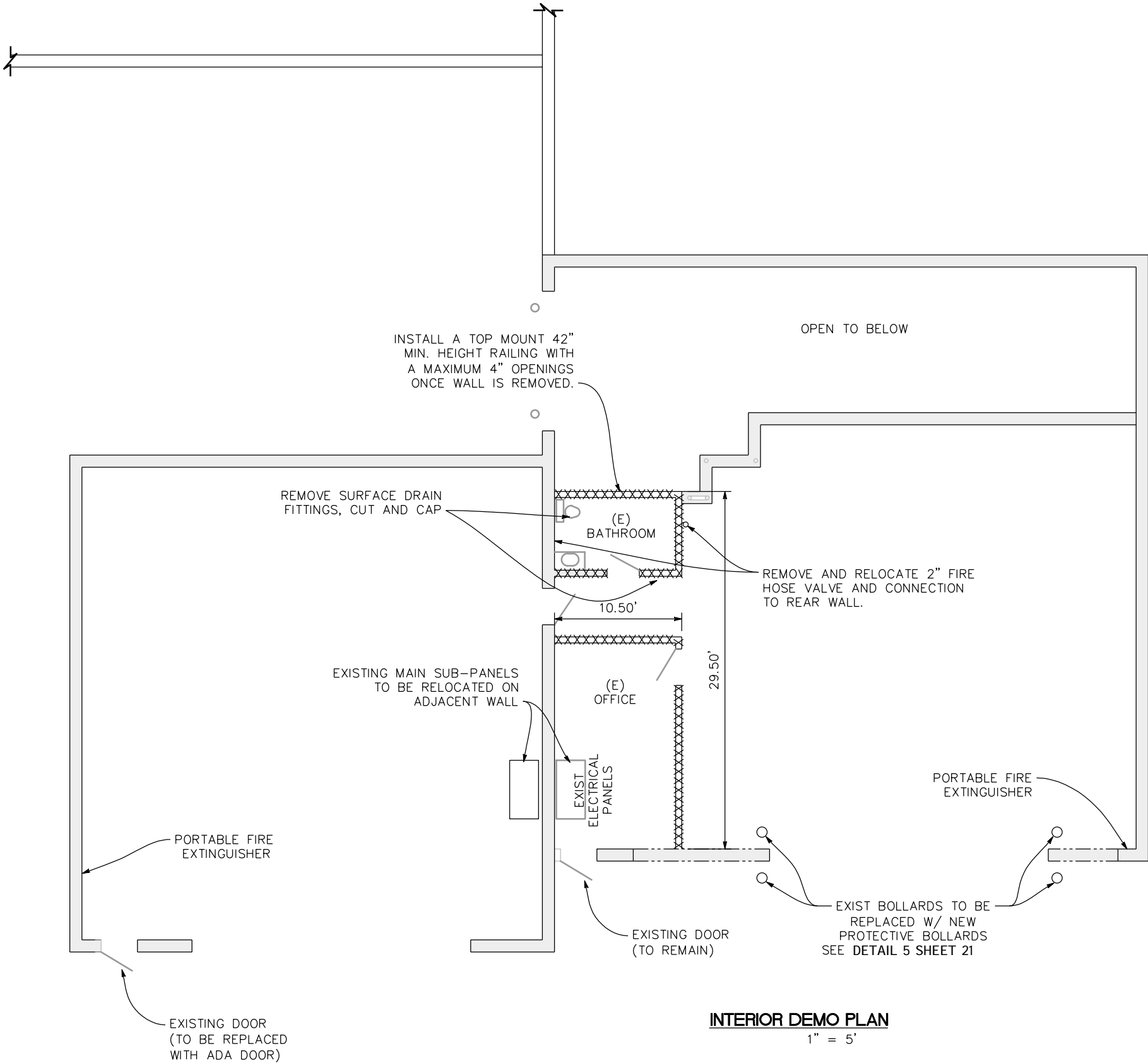
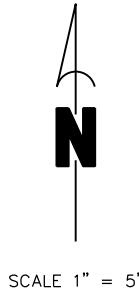




BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 43 OF 58
	ROAD NO:	MILE POST:		REDWAY TRANSFER STATION		
	PROJECT NO.: 438005		DESIGNED BY: ENGR	TRANSFER BUILDING INTERIOR DEMO PLAN		
	DRAWING FILE NAME: RTS-Recycling Building.dwg		DRAWN BY: PBS			
			REVIEWED BY: JAB			
PLOT DATE: 08/19/2025			REVISION DATE:	APPROVED BY: TRS		

DEMO NOTES:

1. FIELD VERIFY ALL ELECTRICAL IN OFFICE AND BATHROOM IS DE-ENERGIZED PRIOR TO DEMO. ALSO, SEE SHEET 47 ELECTRICAL PLAN NOTES.
2. REMOVE ALL FIXTURES, CUT AND CAP ALL UTILITIES FLUSH WITH TOP OF CONCRETE WITHIN THE OFFICE AND BATHROOM DEMO SHOWN AS HATCHED XXXXXX.
3. THE CEILING ABOVE THE BATHROOM AND OFFICE IS INCLUDED IN THE DEMO, BUT NOT SHOWN FOR CLARITY.



INTERIOR DEMO PLAN
1" = 5'

DESIGN CODE: 2022 California Building Code, 2022 California Mechanical Code, 2022 California Electrical Code, 2022 California Plumbing Code, 2022 California Energy Code, 2022 California Green Standards Code, 2022 California Fire Code.

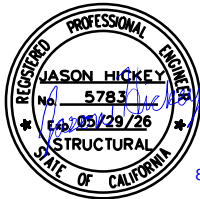
Occupancy: F-2 Low Hazard Factory Industrial
Occupant Load = 2400 SQFT /100 SQFT Occupancy Factor = 24
Construction Type: Type I
of Stories = 1
Size = 2400 SQFT
of Exits = 2
Fire Resistance Rating: Type II-B
Fire Sprinklers: No

Occupancy Group = S-2

Live Loading: Roof = 20psf

Seismic Parameters:
Ss = 1.669
S1 = 0.862
Site Class = D
PGA = 0.786
Risk Catagory = I

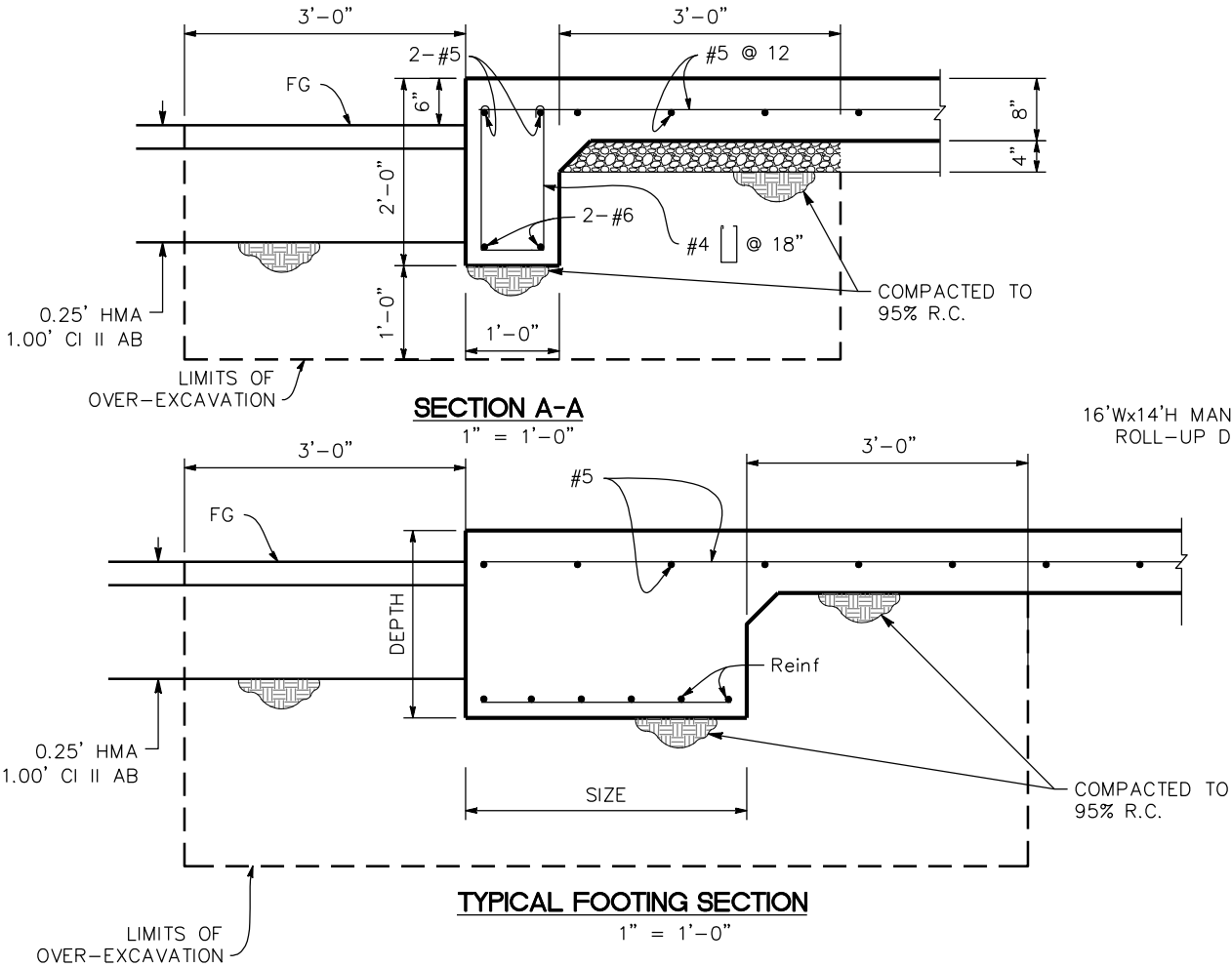
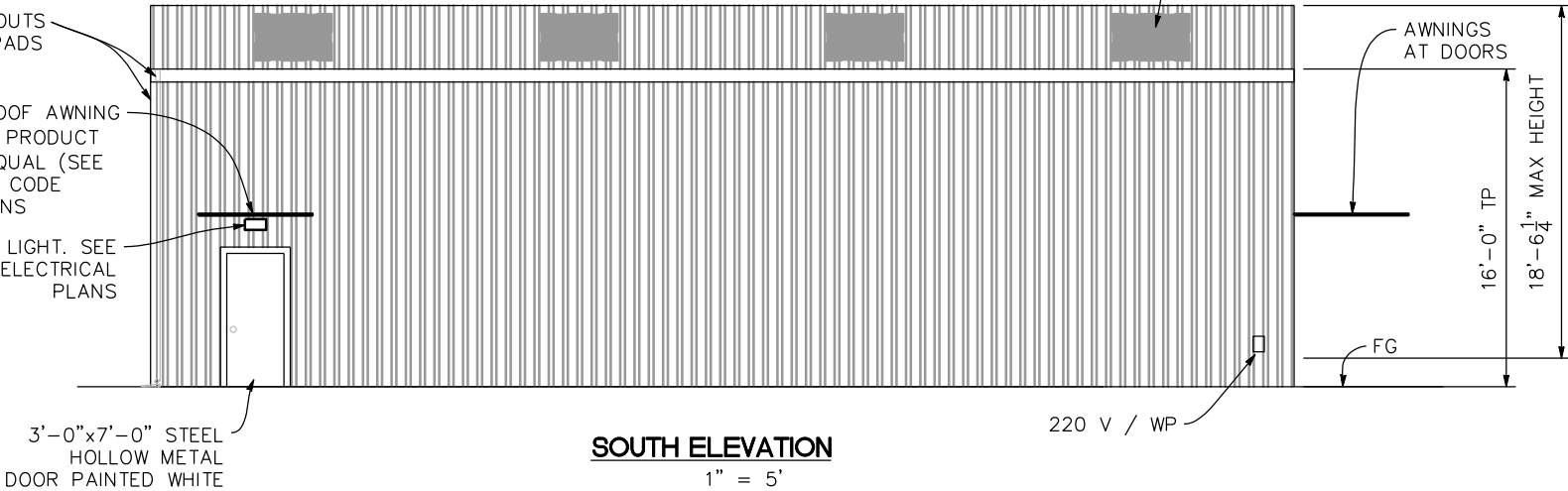
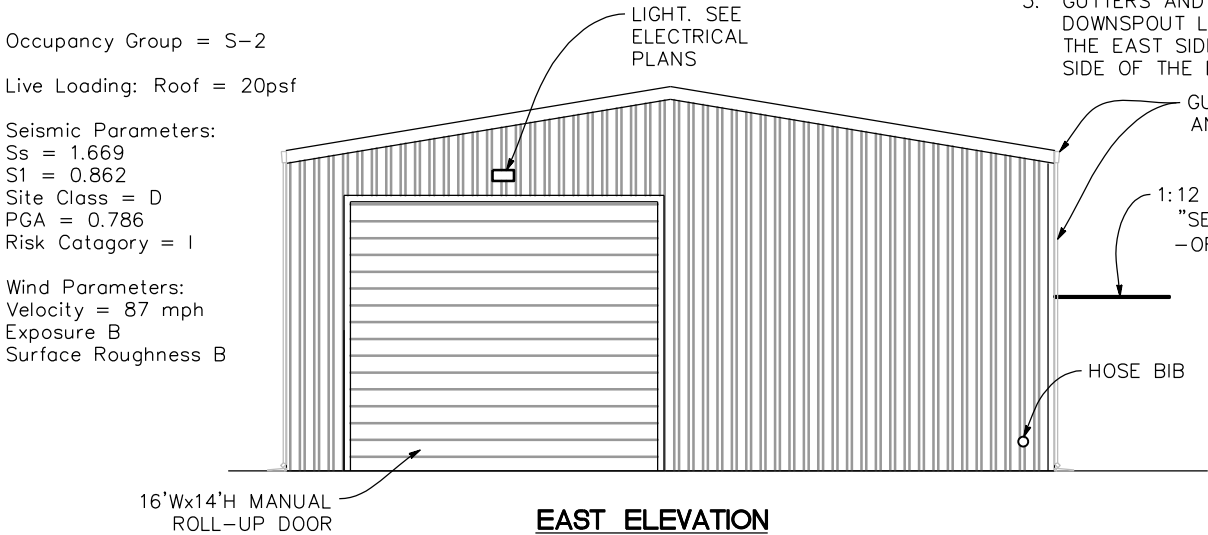
Wind Parameters:
Velocity = 87 mph
Exposure B
Surface Roughness B



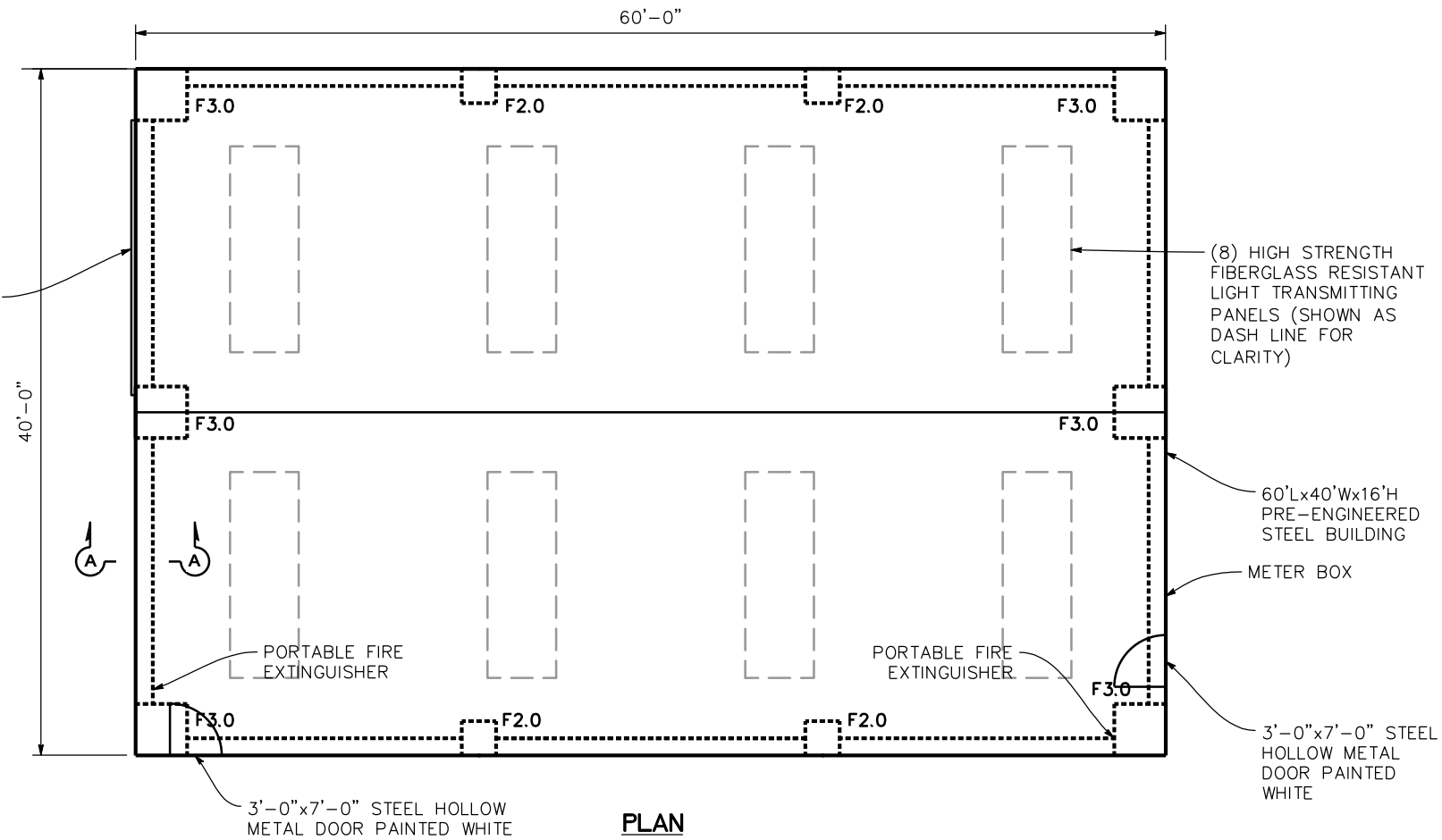
ROAD NAME: CONSERVATION CAMP RD		HUMCO		COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS REDWAY TRANSFER STATION PROPOSED RECYCLING BUILDING PLANS	SHEET 44 OF 58
ROAD NO:	MILE POST:	DESIGNED BY: ENGR			
PROJECT NO.: 438005		DRAWN BY: PBS			
DRAWING FILE NAME: RTS-Recycling Building.dwg		REVIEWED BY: JAB			
PLOT DATE: 08/19/2025	REVISION DATE:	APPROVED BY: TRS			

NOTES:

- CONCEPTUAL BUILDING DESIGN SHOWN ACTUAL BUILDING MAY VARY SLIGHTLY DEPENDING UPON MANUFACTURER.
- COORDINATE FOUNDATION PLACEMENT WITH BUILDING BASE PLATES AND ANCHOR BOLTS.
- GUTTERS AND DOWNSPOUT SIZING PER BUILDING Mfg.REQUIREMENTS. DOWNSPOUT LOCATIONS SHALL BE; 1 Ea. AT THE NORTHEAST CORNER ON THE EAST SIDE OF Bldg. 1 Ea. ON THE SOUTHWEST CORNER OF THE WEST SIDE OF THE Bldg.
- SEE ELECTRICAL PLAN FOR LAYOUT AND NOTES



DESCRIPTION	SIZE	DEPTH	Reinf
F2.0	2'-0" x 2'-0"	24"	4-#5 EACH WAY
F3.0	3'-0" x 3'-0"	24"	6-#5 EACH WAY

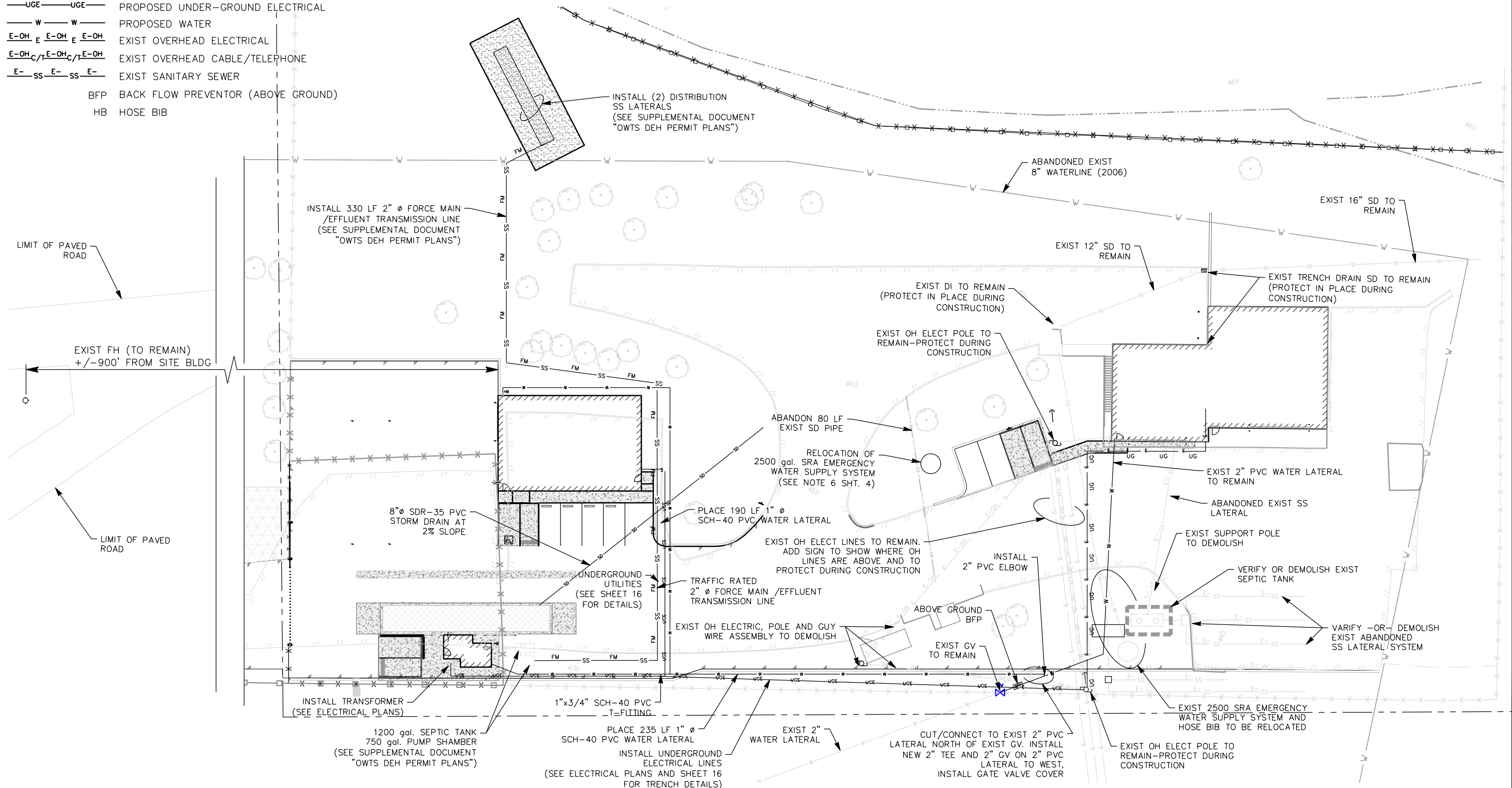


NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA AND MAPS, CONTACT DPW LAND USE DIVISION AT THE COUNTY PUBLIC WORKS OFFICE.
2. SOIL COMPACTION MUST MEET PG&E'S, AND ANY APPLICABLE FEDERAL, STATE, COUNTY, AND LOCAL REGULATIONS.
3. A JOINT SERVICE TRENCH MUST MEET ALL SEPARATION AND CLEARANCE DIMENSIONS SHOWN ON SHEET 15 TRENCH DETAIL.

LEGEND:

SD	SD	PROPOSED STORM DRAIN
FM	SS	PROPOSED SANITARY SEWER / FORCE MAIN
UGE	UGE	PROPOSED UNDER-GROUND ELECTRICAL
W	W	PROPOSED WATER
E-OH	E	EXIST OVERHEAD ELECTRICAL
E-OH	C/T	EXIST OVERHEAD CABLE/TELEPHONE
E-SS	E-SS	EXIST SANITARY SEWER
BFP		BACK FLOW PREVENTOR (ABOVE GROUND)
HB		HOSE BIB



BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

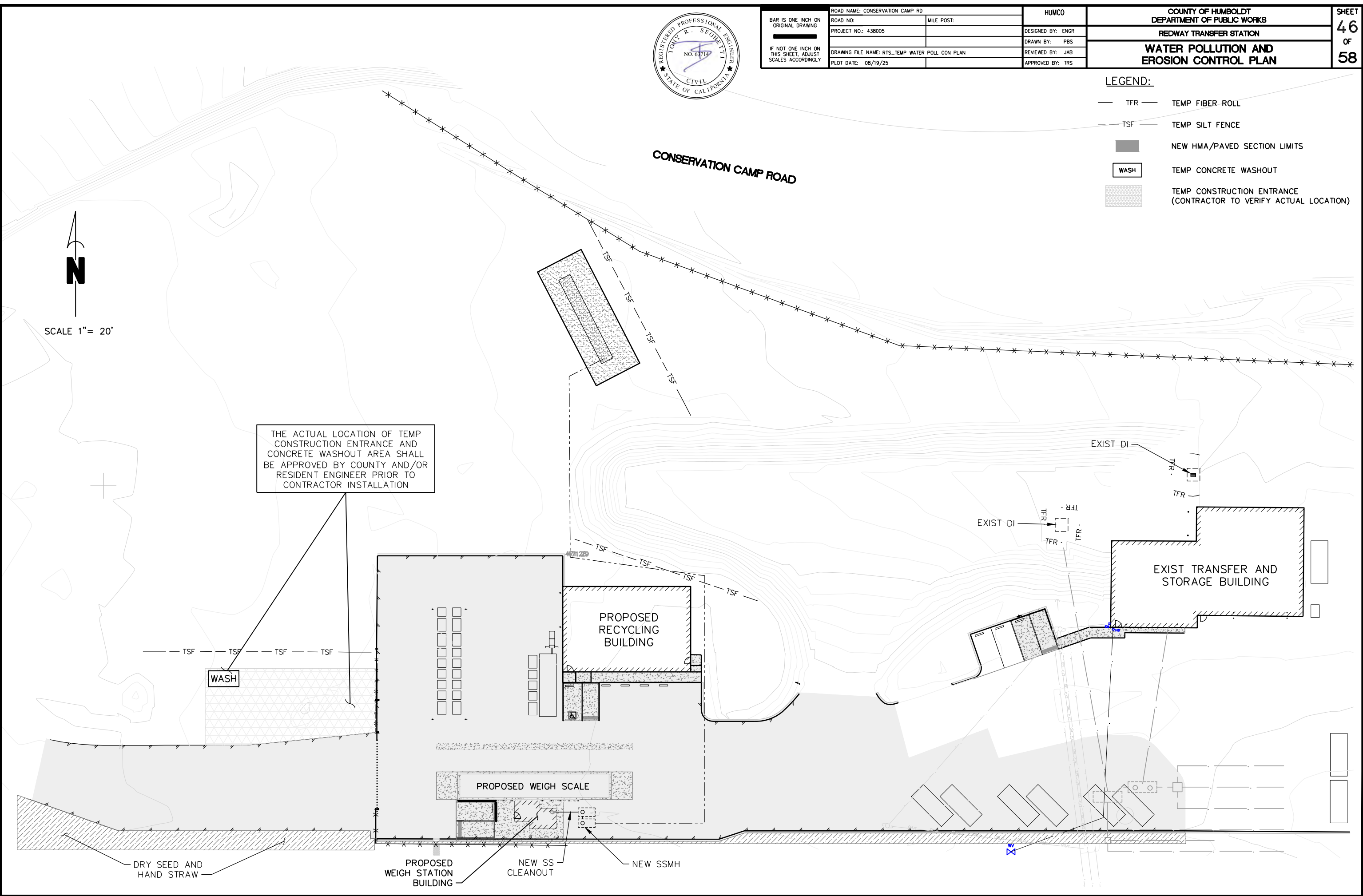
ROAD NAME: CONSERVATION CAMP RD	MILE POST:	HUMCO	COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 45 OF 58
PROJECT NO.: 438005		DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
DRAWING FILE NAME: RTS_UTILITY PLAN		DRAWN BY: PBS	UTILITY PLAN	
PLOT DATE: 08/19/25		REVIEWED BY: JAB		
		APPROVED BY: TRS		



BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		HUMCO	COUNTY OF HUMBOLDT	SHEET 46 OF 58
	ROAD NO:	MILE POST:		DEPARTMENT OF PUBLIC WORKS	
	PROJECT NO.: 438005		DESIGNED BY: ENGR	REDWAY TRANSFER STATION	
	DRAWING FILE NAME: RTS_TEMP WATER POLL CON PLAN		DRAWN BY: PBS	WATER POLLUTION AND EROSION CONTROL PLAN	
	PLOT DATE: 08/19/25		REVIEWED BY: JAB		
			APPROVED BY: TRS		

- LEGEND:
- TFR — TEMP FIBER ROLL
 - TSF — TEMP SILT FENCE
 - NEW HMA/PAVED SECTION LIMITS
 - WASH TEMP CONCRETE WASHOUT
 - TEMP CONSTRUCTION ENTRANCE (CONTRACTOR TO VERIFY ACTUAL LOCATION)

THE ACTUAL LOCATION OF TEMP CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT AREA SHALL BE APPROVED BY COUNTY AND/OR RESIDENT ENGINEER PRIOR TO CONTRACTOR INSTALLATION



Jun 17, 2025 10:36 AM
UNAUTHORIZED CHANGES & USES:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025

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ENGINEERING INC.**
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Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 19086.21

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	ROAD NAME: CONSERVATION CAMP RD		M.NEILS ENGINEERING		COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS		SHEET 47 OF 58
	ROAD NO:	MILE POST:	REDWAY TRANSFER STATION				
	PROJECT NO.: 438005	EA NO.:					
	CONTRACT NO.:	BRIDGE NO:					
DRAWING FILE NAME:		DESIGNED BY: SKL		ELECTRICAL SHEET INDEX, SYMBOL LIST AND ABBREVIATIONS			
PLOT DATE: 6/17/25		DRAWN BY: PI					
REVISION DATE:		REVIEWED BY: SKL/JLB					
		APPROVED BY: JLB					

DEMOLITION GENERAL NOTES

- INFORMATION SHOWN RELATIVE TO EXISTING CONDITIONS IS BASED UPON AVAILABLE RECORDS AND DATA. THEREFORE, IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND/OR BEFORE START OF ANY ELECTRICAL WORK, INSPECT ALL EXISTING LOCATIONS AND CONDITIONS AND ASCERTAIN WORK REQUIRED TO CLEAR PROJECT AREA OF ALL EXISTING ELECTRICAL ITEMS NOT BEING REUSED OR EXISTING TO REMAIN AS IS. REPORT ALL DISCREPANCIES AND COORDINATE ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE. MAINTAIN SERVICE TO EXISTING ELECTRICAL EQUIPMENT IN AREAS ADJACENT TO REMODEL AREA, UNLESS OTHERWISE NOTED.
- PROTECT ALL EXISTING ELECTRICAL EQUIPMENT ON EXISTING WALLS AND CEILINGS NOT REQUIRED TO BE DEMOLISHED UNLESS OTHERWISE NOTED. DELIVER ALL EXISTING ELECTRICAL EQUIPMENT IN REMODELED AREAS, THAT ARE REMOVED AND NOT REUSED ELSEWHERE, AND ARE DEEMED TO BE SALVAGEABLE IN THE JUDGMENT OF THE CONTRACTOR AND OWNER'S REPRESENTATIVE, TO THE OWNER. DELIVER ALL SALVAGED ELECTRICAL EQUIPMENT AND OTHER ITEMS TO A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. REMOVE FROM SITE, ALL OTHER ELECTRICAL EQUIPMENT, HARDWARE, AND OTHER ITEMS THAT ARE DEEMED UNSALVAGEABLE BY CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
- CUT, PATCH AND MATCH IN ALL AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND DEVICES.
- CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND SERVICES AS POSSIBLE. SCHEDULE ANY POWER OR OTHER UTILITY SHUTDOWN WITH THE OWNER'S REPRESENTATIVE. SHUTDOWNS WHICH MAY BE REQUIRED SHALL BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN WORK SHALL BE PERFORMED ON OVERTIME HOURS IF SO DIRECTED BY OWNER'S REPRESENTATIVE.
- DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, OUTLETS, DEVICES, CONDUIT, WIRING AND OTHER ELECTRICAL ITEMS, WHETHER SHOWN OR NOT, FROM EXISTING CEILINGS AND WALLS WHICH ARE TO BE DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REMAINING DEVICES, UNLESS OTHERWISE NOTED.
- COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
- RELOCATE ALL CONDUITS THAT ARE TO REMAIN IN SERVICE WHICH ARE IN A LOCATION TO CONFLICT WITH NEW WORK.
- WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, AND OTHER ITEMS, CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS TO COORDINATE WITH NEW CONSTRUCTION.
- REUSE EXISTING CONDUITS AND WIRING WHEREVER POSSIBLE UNLESS OTHERWISE NOTED TO BE REMOVED.
- PROVIDE PROTECTIVE COVERING OVER EXISTING EQUIPMENT WHEN INSTALLING ALL NEW WORK.
- PROVIDE NEW TYPED PANEL DIRECTORIES FOR EXISTING PANELS INVOLVED IN THIS RENOVATION WORK, REFLECTING ALL CHANGES TO CIRCUIT DESIGNATIONS.
- ASBESTOS REMOVAL: IN THE EVENT ASBESTOS IS FOUND TO BE PRESENT IN AREAS CONFLICTING WITH ELECTRICAL WORK, BEFORE CONTINUATION OF WORK IN THOSE AREAS, NOTIFY THE OWNER'S REPRESENTATIVE FOR THE REMOVAL OF SUCH HAZARDOUS MATERIAL BY A CERTIFIED ASBESTOS CONTRACTOR.
- CIRCUIT NUMBERS AND CIRCUITING BASED UPON AS-BUILTS. ACTUAL CONDITION MAY VARY. TRACE AND VERIFY ALL CIRCUITS SHOWN ARE AVAILABLE FOR DEMOLITION AND REUSE AS NEEDED DURING THE REMODEL PHASE. DOCUMENT ALL CHANGES ON AS-BUILT DRAWINGS.

ELECTRICAL SYMBOL LIST

- X^o
ABC-#
LUMINAIRE - CEILING SURFACE OR PENDANT MOUNTED (LETTER "X" INDICATES TYPE, "a" DENOTES SWITCH FUNCTION, "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES UNLESS NOTED OTHERWISE).
- ENCLOSED LUMINAIRE - SURFACE MOUNTED
- LUMINAIRE - WALL MOUNTED
- SINGLE POLE TOGGLE SWITCH, +45" A.F.F. - "a" LETTER DENOTES SWITCH FUNCTION, TYPICAL FOR ALL SWITCHES UNLESS NOTED OTHERWISE
- DIMMER SWITCH - SIZE AS NOTED ON PLAN, +45" A.F.F.
- JUNCTION BOX - SIZE AS REQUIRED BY CODE
- DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER).
- GFCI DUPLEX CONVENIENCE OUTLET - NEMA 5-20R
- QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R
- SPECIAL RECEPTACLE AS SHOWN ON PLANS
- FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
- CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
- CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
- CONDUIT TURNED AND RISED UP
- CONDUIT TURNED AND DROPPED DOWN
- EXISTING CONDUIT AND WIRING
- EXISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH OWNER.
- EXISTING OVERHEAD WIRING
- PANELBOARD - SURFACE MOUNTED
- PANELBOARD - FLUSH MOUNTED
- EXISTING PANELBOARD - SURFACE MOUNTED
- EXISTING PANELBOARD - FLUSH MOUNTED
- EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE INDICATED
- EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE
- TOGGLE TYPE MOTOR RATED DISCONNECT SWITCH WITH OVERLOAD PROTECTION
- ELECTRICAL PULL BOX, "PB#" INDICATES SIZE CORRESPONDING TO PULL BOX SCHEDULE.
- DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
- ELECTRICAL TRANSFORMER. RATING PER SPECIFICATIONS.
- DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER
- MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS

SYMBOL LIST NOTES:

- "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER.
- MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE #12 AWG. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN 3/4"C, 2#12 AWG AND 1#12 GND UNLESS OTHERWISE INDICATED.
- EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
- ELECTRICAL OUTLET BOXES MOUNTED ON OPPOSITE SIDES OF FIRE-RATED WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES PER CBC, WHETHER SHOWN ON THE PLANS OR NOT.
- VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.
- WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.

ELECTRICAL SHEET INDEX

No. Of SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.1	ELECTRICAL SHEET INDEX, SYMBOL LIST AND ABBREVIATIONS
2	E1.0	SITE PLAN - ELECTRICAL
3	E2.0	WAREHOUSE FLOOR PLAN - ELECTRICAL
4	E2.1	RECYCLE BUILDING & WEIGH STATION FLOOR PLAN - ELECTRICAL
5	E3.0	ONE-LINE POWER DIAGRAM AND PANEL SCHEDULE
6	E4.0	ELECTRICAL DETAILS
7	E5.0	TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS
8	E5.1	TITLE 24 WEIGH STATION - INDOOR LIGHTING
9	E5.2	TITLE 24 WEIGH STATION - INDOOR & OUTDOOR LIGHTING
10	E5.3	TITLE 24 WEIGH STATION - OUTDOOR LIGHTING
11	E5.4	TITLE 24 RECYCLE BUILDING - INDOOR LIGHTING
12	E5.5	TITLE 24 RECYCLE BUILDING - INDOOR & OUTDOOR LIGHTING
13	E5.6	TITLE 24 RECYCLE BUILDING - OUTDOOR LIGHTING

ABBREVIATIONS

A	AMPERES	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
A.F.F.	ABOVE FINISHED FLOOR	O.H.	OVERHEAD
AFG	ABOVE FINISHED GRADE	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
AF	AMP FUSE	PH	PHASE
A.I.C.	AMPERE INTERRUPTING CAPACITY	PVC	POLYVINYL CHLORIDE
AS	AMP SWITCH	(R)	REMOVE
AWG	AMERICAN WIRE GAUGE	(RE)	RELOCATE EXISTING
BKR	BREAKER	RCPT.	RECEPTACLE
C.	CONDUIT	SWBD	SWITCHBOARD
CU	COPPER	SYS	SYSTEM
(E)	EXISTING	THW	INSULATED STRAND WIRE
(ER)	EXISTING RELOCATED	THHN	NYLON JACKETED WIRE
EMT	ELECTRICAL METALLIC CONDUIT	TYP	TYPICAL
GND	GROUND	UGPS	UNDERGROUND PULL SECTION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
Isc	SHORT CIRCUIT AMPERES	W	WIRE, WATT
KVA	KILO VOLT AMPERE	WP	WEATHER PROTECTED
LT.	LIGHT	WR	WEATHER RESISTANT AND WEATHERPROOF
MAX.	MAXIMUM	XFMR	TRANSFORMER
MIN.	MINIMUM	XHHW	CROSS-LINKED POLYETHYLENE WIRE INSULATED
MOG.	MOGUL BASE	Y	WYE
N	NEUTRAL		
(N)	NEW		

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UNAUTHORIZED CHANGES & USES:
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PROJECT #: 19086.21

ROAD NAME: CONSERVATION CAMP RD		M.NEILS ENGINEERING
ROAD NO:	MILE POST:	DESIGNED BY: SKL
PROJECT NO.: 438005	EA NO.:	DRAWN BY: PI
CONTRACT NO.:	BRIDGE NO:	REVIEWED BY: SKL/JLB
DRAWING FILE NAME:		APPROVED BY: JLB
PLOT DATE: 6/17/25	REVISION DATE:	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
WAREHOUSE FLOOR PLAN - ELECTRICAL

SHEET
49
OF
58
E2.0

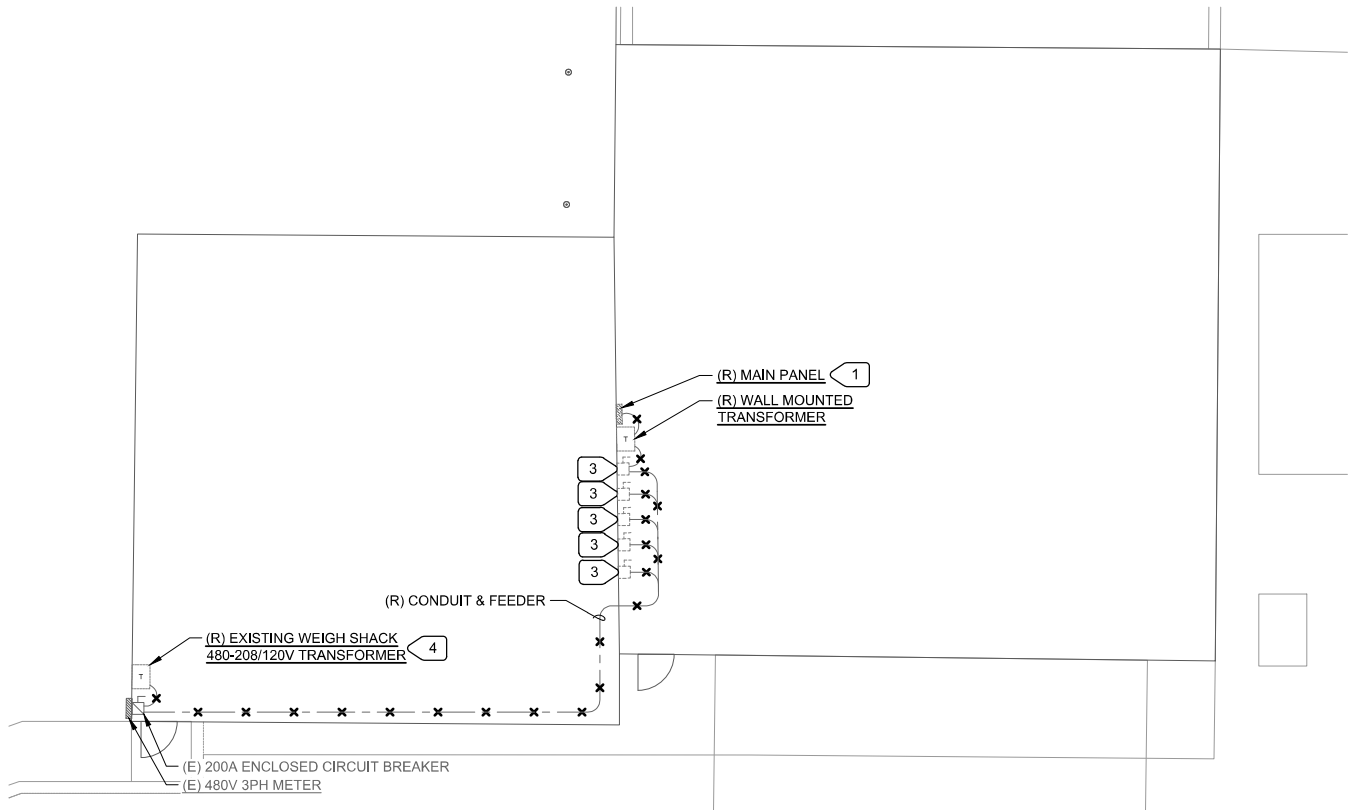
EXISTING SITE CONDITIONS NOTE

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NUMBERED NOTES

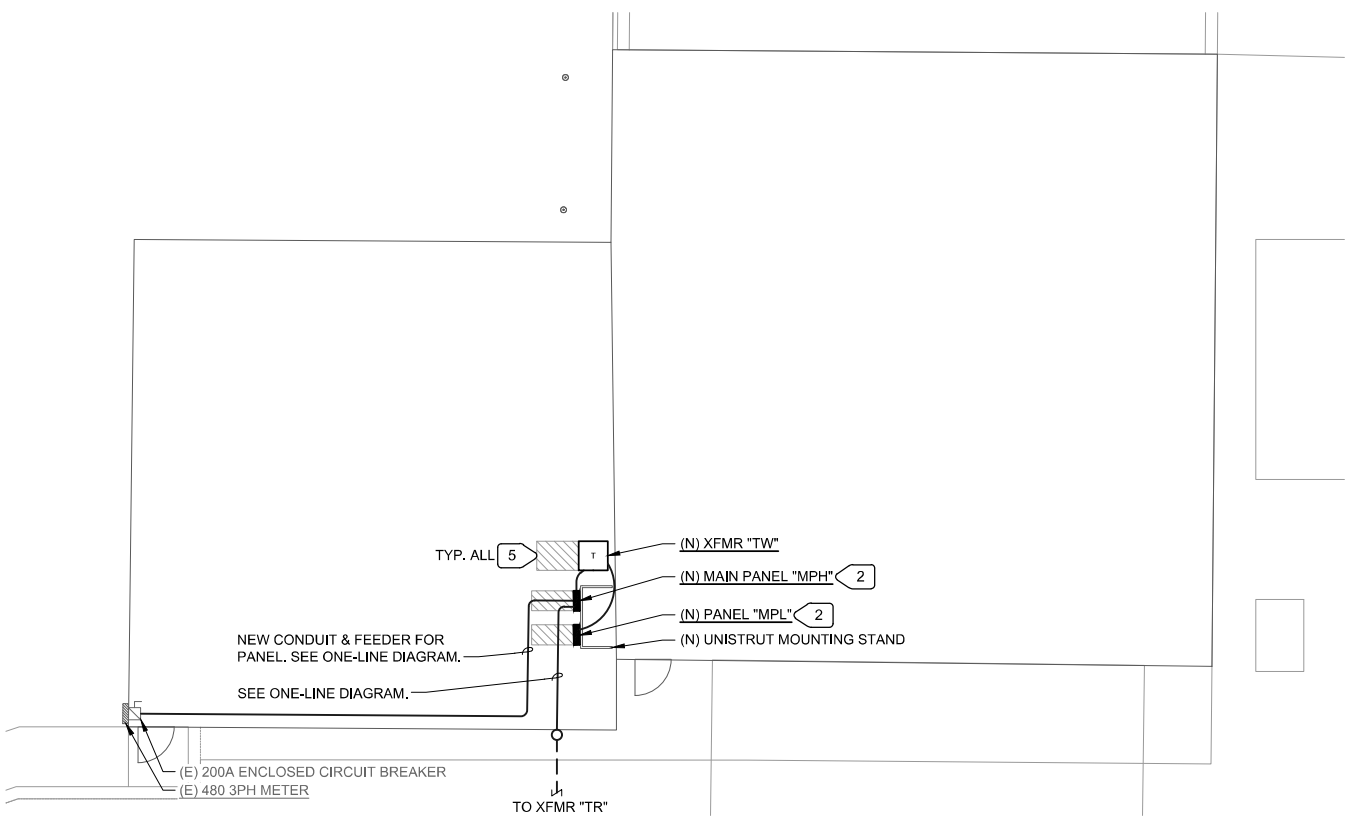
- 1 REROUTE ALL EXISTING CIRCUITS FROM REMOVED MAIN PANEL TO NEW PANEL "MPL" RESPECTIVE TO THEIR VOLTAGES. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INSTRUCTIONS. PROVIDE UPDATED PANEL SCHEDULE REFLECTING AS-BUILT CONDITIONS AT PROJECT COMPLETION.
- 2 MOUNT ELECTRICAL EQUIPMENT TO NEW UNISTRUT MOUNTING STAND. SEE DETAIL "5/E4.0".
- 3 REROUTE ALL EXISTING CIRCUITS FROM REMOVED ELECTRICAL EQUIPMENT TO NEW PANELS "MPL" AND "MPH" RESPECTIVE TO THEIR VOLTAGE REQUIRMENTS. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INSTRUCTIONS. NOTIFY ENGINEER OF RECORD IF EQUIPMENT CIRCUIT BREAKER REQUIREMENTS DIFFER FROM DRAWINGS, PROVIDE UPDATED PANEL SCHEDULE REFLECTING AS-BUILT CONDITIONS AT PROJECT COMPLETION.
- 4 DISCONNECT AND REMOVE ALL CONDUCTORS SERVING ALL LOADS CONNECTED TO THE SECONDARY SIDE OF THE TRANSFORMER.
- 5 MAINTAIN CEC REQUIRED WORKING CLEARANCE IN FRONT OF ALL ELECTRICAL EQUIPMENT.



1
E2.0

WAREHOUSE FLOOR PLAN - DEMOLITION

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



2
E2.0

WAREHOUSE FLOOR PLAN - REMODEL

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



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BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
RECYCLE BUILDING & WEIGH STATION FLOOR PLAN - ELECTRICAL

SHEET
50
OF
58

E2.1

FEEDER SCHEDULE

TAG	###	DESCRIPTION
203		1" C., 3 #12, AND 1 #12 GND.
303		3/4" C., 3 #10, AND 1 #10 GND.
502		1" C., 2 #6, AND 1 #10 GND.

NUMBERED NOTES

- LOCATE WALL PACK FIXTURE OVER THE ROLL-UP DOOR.
- LOCATE WALL PACK FIXTURE OVER THE DOOR.
- PROVIDE NEW DRY TYPE TRANSFORMER "TR" ON NEW CONCRETE PAD. REFER TO ONE-LINE POWER DIAGRAM AND DETAIL "2/E4.0" FOR CONCRETE PAD.
- PROVIDE PRIMARY DISCONNECT IN NEMA 3R ENCLOSURE. REFER TO ONE-LINE POWER DIAGRAM.
- PROVIDE ASTRONIMICAL TIME SWITCH, INTERMATIC ET90000, FOR EXTERIOR LIGHTING CONTROL.
- PROVIDE TIME SWITCH, INTERMATIC ET90000, FOR INTERIOR LIGHTING CONTROL.
- PROVIDE 15A-2P MOTOR RATED DISCONNECT SWITCH WITH OVERLOAD PROTECTION.

LUMINAIRE SCHEDULE

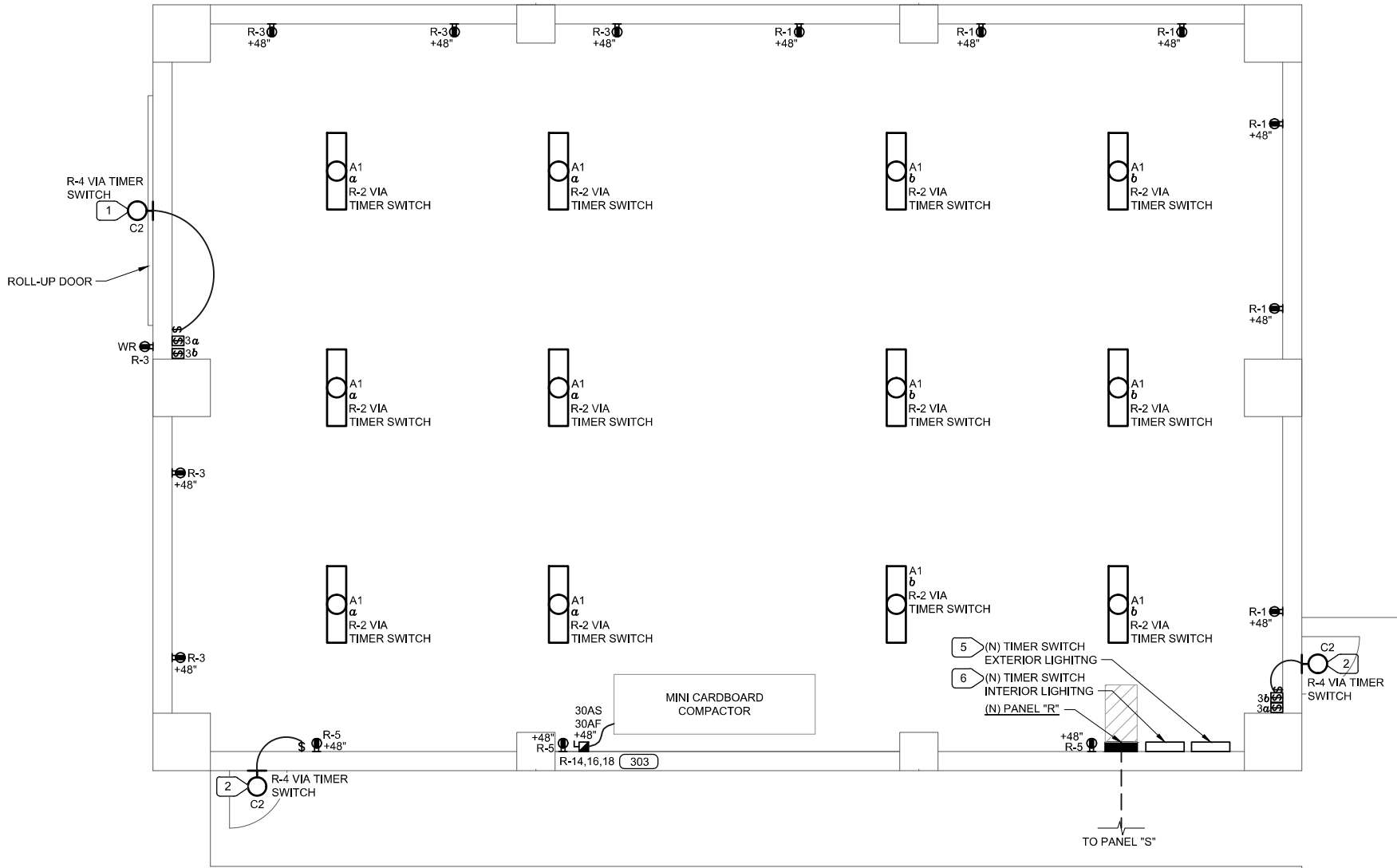
TYPE	MANUFACTURER CATALOG NO.	VOLTAGE DESCRIPTION	LIGHT SOURCE (LED, WATTS, LUMENS, COLOR TEMPERATURE, CRI, R9 IF AVAILABLE)	MOUNTING	REMARK NOTE No.
A1	LSI INDUSTRIES INC. EG3-4-LED-6L-DA-S-UNV- DIM-40-80-OCSWL	UNIV 4FT WET LOCATION LED	LED, 48.46W, 4511L, 4000K*, 80CRI	CEILING MOUNT	
B1	LUMINAIRE LED SWP1212-MIN1-25W-40K- MVOLT-OP-BLK-OCC	UNIV VANDAL RESISTANT LED	LED, 26.7W, 3527L, 4000K*	SURFACE CEILING MOUNT	
C1	LSI INDUSTRIES INC. SWPM-WB-LED-PL2-40- UE-BRZ-PD	UNIV OUTDOOR WALL LED	LED, 68W, 6237L, 4000K*, 84CRI	WALL MOUNT	①
C2	LSI INDUSTRIES INC. SWPL-WB-LED-PLA-40- UE-BRZ-PD	UNIV OUTDOOR WALL LED	LED, 90W, 9191L, 4000K*, 80CRI	WALL MOUNT	①

LUMINAIRE SCHEDULE REMARK NOTES:

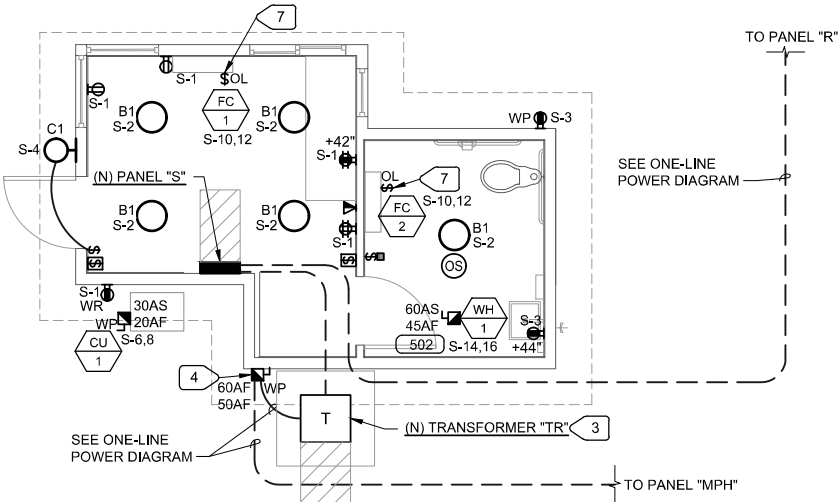
- ① PROVIDE LUMINAIRE WITH INTEGRAL PHOTO CELL OPTION TO MEET TITLE 24 PART 6 COMPLIANCE.

GENERAL NOTE:

REFER TO PLAN FOR LOCATION, QUANTITIES, AND SWITCH FUNCTION.



1
E2.1
RECYCLE BUILDING PLAN - ELECTRICAL
SCALE : 1/4" = 1'-0"



2
E2.1
WEIGH STATION PLAN - ELECTRICAL
SCALE : 1/4" = 1'-0"



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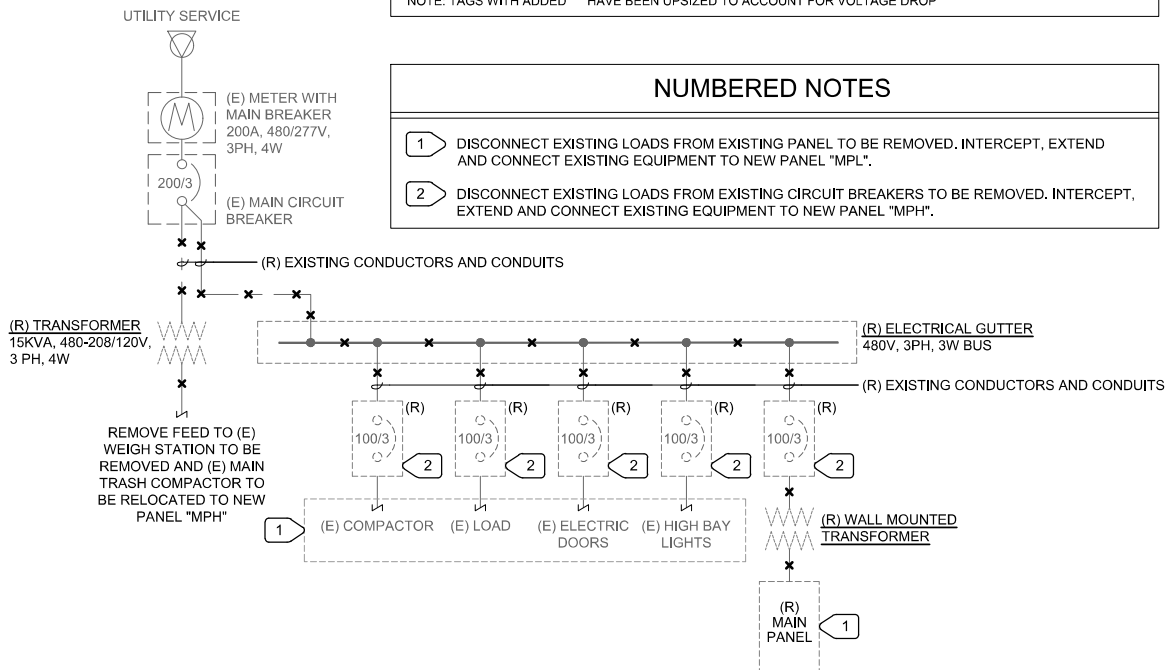
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COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	SHEET 51 OF 58
REDWAY TRANSFER STATION	
ONE-LINE POWER DIAGRAM AND PANEL SCHEDULE	

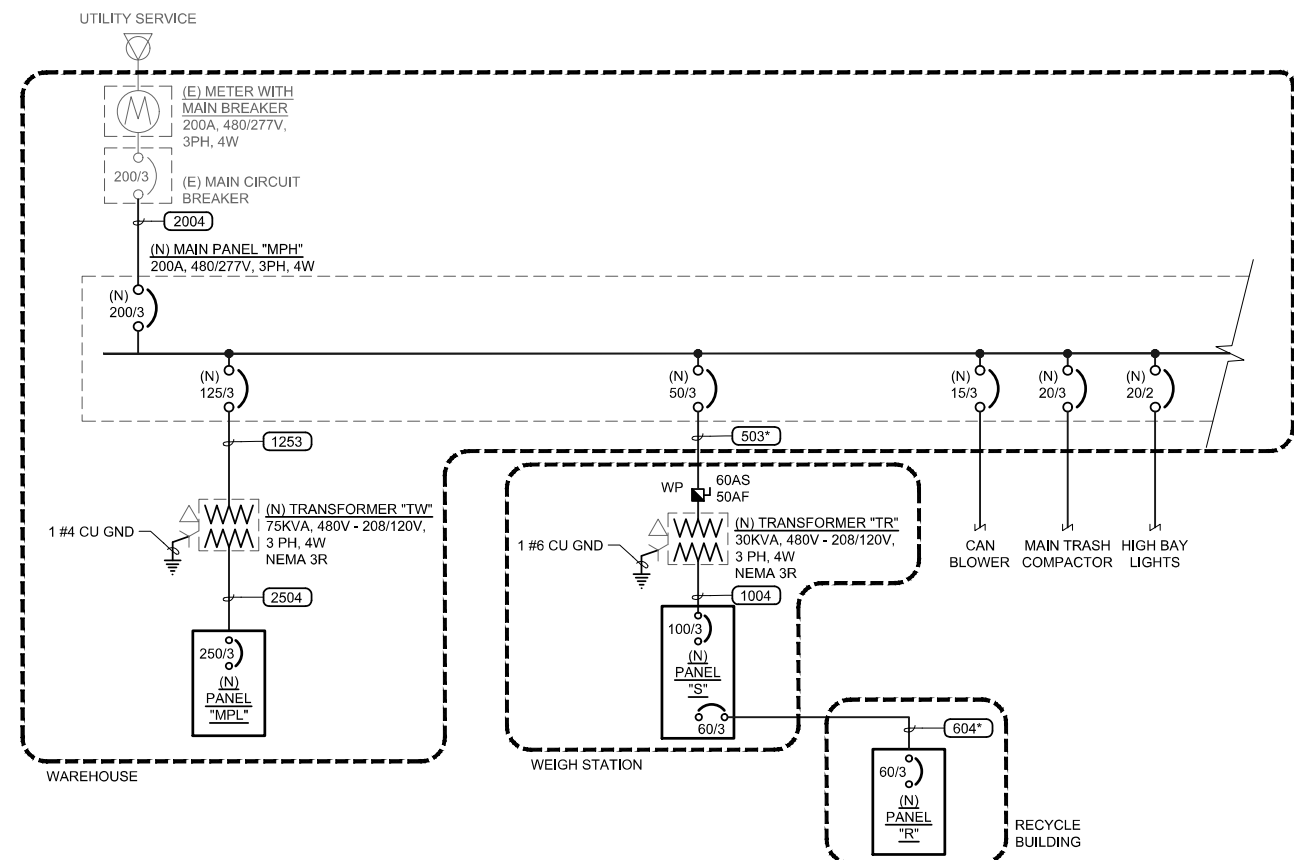
FEEDER SCHEDULE	
TAG (###)	DESCRIPTION
503*	1-1/4" C., 3 #3, AND 1 #7 GND.
604*	1-1/4" C., 4 #3, AND 1 #8 GND.
1004	1-1/2" C., 4 #1, AND 1 #6 GND.
1253	2" C., 3 #1/0, AND 1 #6 GND.
2004	2" C., 4 #3/0, AND 1 #6 GND.
2504	3" C., 4 #250, AND 1 #4 GND.
NOTE: TAGS WITH ADDED "*" HAVE BEEN UPSIZED TO ACCOUNT FOR VOLTAGE DROP	

NUMBERED NOTES	
1	DISCONNECT EXISTING LOADS FROM EXISTING PANEL TO BE REMOVED. INTERCEPT, EXTEND AND CONNECT EXISTING EQUIPMENT TO NEW PANEL "MPL".
2	DISCONNECT EXISTING LOADS FROM EXISTING CIRCUIT BREAKERS TO BE REMOVED. INTERCEPT, EXTEND AND CONNECT EXISTING EQUIPMENT TO NEW PANEL "MPH".



1 PARTIAL ONE-LINE POWER DIAGRAM - DEMOLITION

E3.0 NO SCALE



2 PARTIAL ONE-LINE POWER DIAGRAM - REMODEL

E3.0 NO SCALE

NEW PANEL "MPH" SCHEDULE	
POWER SOURCE: PANEL "MPH" VIA XPR "TW"	
SYSTEM: NORMAL BRANCH	
TYPE	BUS
100	250/3
MAIN BKR	250/3
VOLTAGE	480V, 3 PHASE, 4 WIRES
3 PHASE, 4 WIRES	
MOUNTING SURFACE	
PANEL TYPE	NEMA 3R
REMARKS	COORDINATE A/C RATING WITH EXISTING SERVICE
LOAD SERVED	
RECEPTACLES	1.1
RECEPTACLES	0.4
SPARE	
SPARE	
SEPTIC TANK	1.7
PANEL "R"	5.1
SPACE	4.4
SPACE	
SPACE	
SPACE	
NOTES:	
[1] ARE EXISTING AND COUNTED FOR IN THE MAIN SERVICE LOAD	
[2] EQUIPMENT RECONNECTED TO NEW CIRCUIT	
[3] IF UNKNOWN EXISTING LOAD IS STILL ON IT, IT NEEDS POWER TO BID. INCLUDE IN PRICING FOR A COMPLETE BRANCH CIRCUIT BREAKER SIZED FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT EXISTING EQUIPMENT INFORMATION TO	

NEW PANEL "S" SCHEDULE	
POWER SOURCE: PANEL "MPH" VIA XPR "TW"	
SYSTEM: NORMAL BRANCH	
TYPE	BUS
100	100/3
MAIN BKR	100/3
VOLTAGE	480V, 3 PHASE, 4 WIRES
3 PHASE, 4 WIRES	
MOUNTING SURFACE	
PANEL TYPE	NEMA 3R
REMARKS	COORDINATE A/C RATING WITH EXISTING SERVICE
LOAD SERVED	
RECEPTACLES	1.1
RECEPTACLES	0.4
SPARE	
SPARE	
SEPTIC TANK	1.7
PANEL "R"	5.1
SPACE	4.4
SPACE	
SPACE	
SPACE	
NOTES:	
[1] ARE EXISTING AND COUNTED FOR IN THE MAIN SERVICE LOAD	
[2] EQUIPMENT RECONNECTED TO NEW CIRCUIT	
[3] IF UNKNOWN EXISTING LOAD IS STILL ON IT, IT NEEDS POWER TO BID. INCLUDE IN PRICING FOR A COMPLETE BRANCH CIRCUIT BREAKER SIZED FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT EXISTING EQUIPMENT INFORMATION TO	

NEW PANEL "R" SCHEDULE	
POWER SOURCE: PANEL "S"	
SYSTEM: NORMAL BRANCH	
TYPE	BUS
100	60/3
MAIN BKR	60/3
VOLTAGE	480V, 3 PHASE, 4 WIRES
3 PHASE, 4 WIRES	
MOUNTING SURFACE	
PANEL TYPE	NEMA 3R
REMARKS	COORDINATE A/C RATING WITH EXISTING SERVICE
LOAD SERVED	
RECEPTACLES	1.1
RECEPTACLES	1.1
RECEPTACLES	0.7
SPARE	
SPACE	
SPACE	
SPACE	
SPACE	
NOTES:	
[1] EXISTING EQUIPMENT RECONNECTED TO NEW CIRCUIT	
PHASE A = 4 kVA	
PHASE B = 1 kVA	
PHASE C = 4 kVA	
TOTAL = 9 kVA	
TOTAL = 2 Amperes	

NEW PANEL "MPL" SCHEDULE [1]	
POWER SOURCE: PANEL "MPH" VIA XPR "TW"	
SYSTEM: NORMAL BRANCH	
TYPE	BUS
400	250/3
MAIN BKR	250/3
VOLTAGE	480V, 3 PHASE, 4 WIRES
3 PHASE, 4 WIRES	
MOUNTING SURFACE	
PANEL TYPE	NEMA 3R
REMARKS	COORDINATE A/C RATING WITH EXISTING SERVICE
LOAD SERVED	
RECEPTACLES	1.1
RECEPTACLES	0.4
SPARE	
SPARE	
SEPTIC TANK	1.7
PANEL "R"	5.1
SPACE	4.4
SPACE	
SPACE	
SPACE	
NOTES:	
[1] ARE EXISTING AND COUNTED FOR IN THE MAIN SERVICE LOAD	
[2] EQUIPMENT RECONNECTED TO NEW CIRCUIT	
[3] IF UNKNOWN EXISTING LOAD IS STILL ON IT, IT NEEDS POWER TO BID. INCLUDE IN PRICING FOR A COMPLETE BRANCH CIRCUIT BREAKER SIZED FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT EXISTING EQUIPMENT INFORMATION TO	

LOAD CALCULATION (EXISTING 200A MAIN LOAD SERVICE)	
Project Name:	Redway Transfer Station
Project No.:	19086.21
Date:	27-Mar-25
By:	M. Neils Engineering, Inc.
Existing maximum demand for 200A Main Metered Service (based on 12 months readings below):	
Source:	PG&E Billing 1 month billing history meter # 1003453687
Jun-21	7.5
Jul-21	10.4
Aug-21	10.1
Sep-21	7.7
Oct-21	7.3
Nov-21	7.2
Dec-21	8.2
Jan-22	12.5
Feb-22	8.0
Mar-22	7.0
Apr-22	7.7
May-22	6.0
Existing load factor (25%):	3.13 kVA
Total EXISTING service load:	15.66 kVA
New Load (BEING ADDED):	
General purpose receptacle outlets	4.30 kVA
Fast 10 kVA or less	10.00
Remainder over 10 kVA =	0.00
Lighting	0.90 kVA
Noncontinuous Load	7.00 kVA
Motors	0.43 kVA
Total NEW service load:	16.55 kVA
TOTAL SERVICE LOAD (EXISTING + NEW improvements):	48.76 kVA
48.76 kVA at 480V/60 Volt, 3 phase	52.67 amperes
Existing: 200A main circuit breaker (Main Switchboard). Therefore (15,000) amperes, 277/480 Volt, 3-phase, 4-wire service has the capacity for the new load. See one-line power diagram.	



**M. NEILS
ENGINEERING, INC.**
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 230N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 823-4400 Fax: (916) 823-4410
PROJECT #: 19086.21

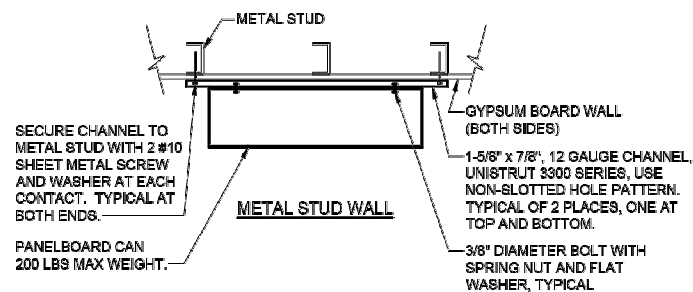
BAR IS ONE INCH ON
ORIGINAL DRAWING
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: CONSERVATION CAMP RD	M. NEILS ENGINEERING
ROAD NO:	DESIGNED BY: SKL
PROJECT NO: 438005	EA NO:
CONTRACT NO:	BRIDGE NO:
DRAWING FILE NAME:	DRAWN BY: FI
PLOT DATE: 6/9/25	REVIEWED BY: SKL/JLB
REVISION DATE:	APPROVED BY: JLB

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
ELECTRICAL DETAILS

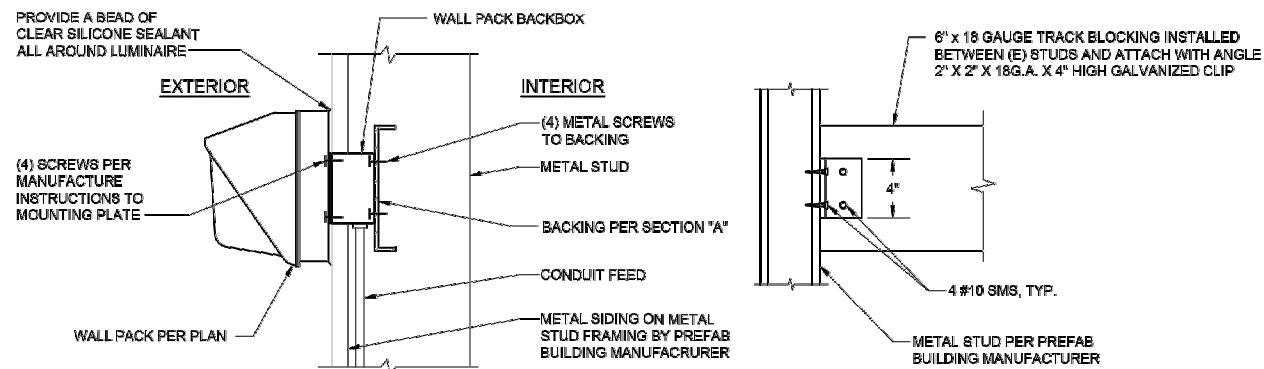
SHEET
52
OF
58

E4.0



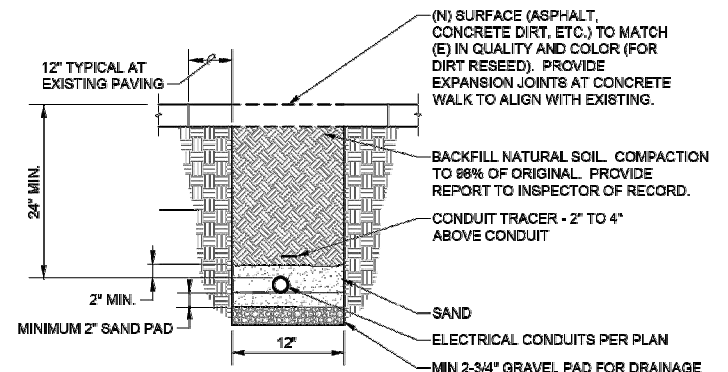
1 SURFACE PANELBOARD MOUNTING DETAIL

1
E4.0
NO SCALE



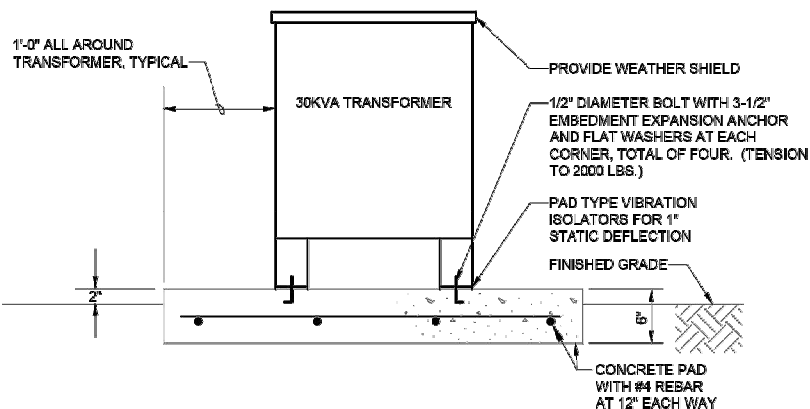
4 WALL PACK MOUNTING DETAIL

4
E4.0
NO SCALE



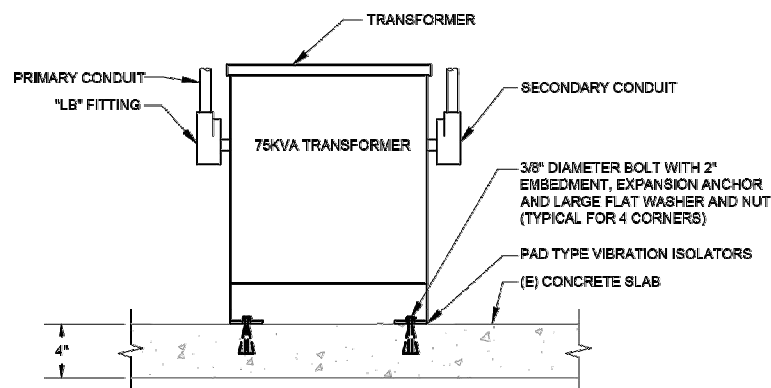
6 CONDUIT TRENCHING DETAIL

6
E4.0
NO SCALE



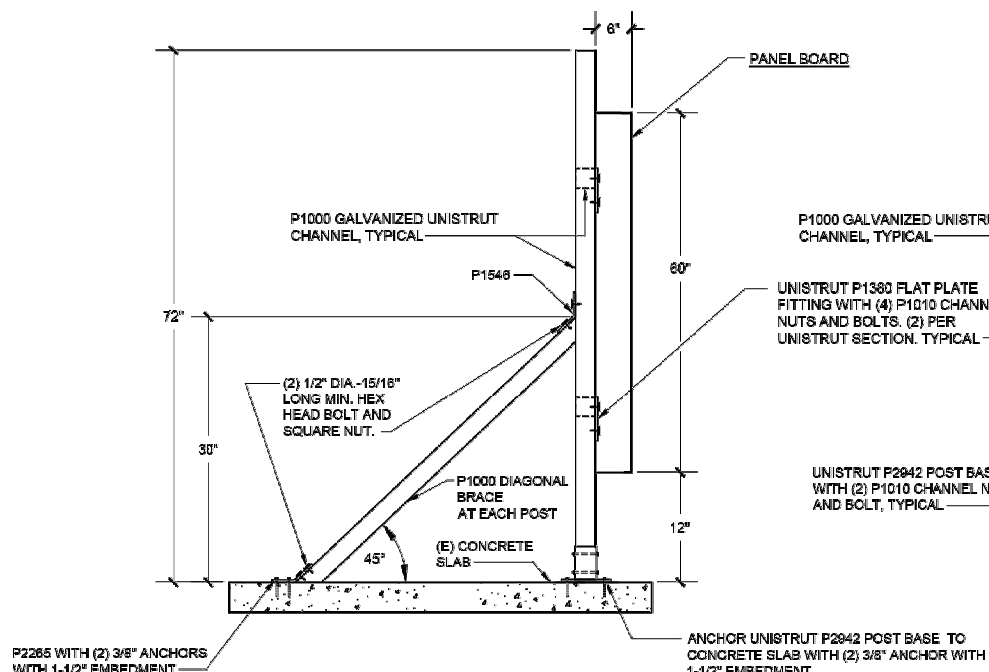
2 EXTERIOR TRANSFORMER PAD MOUNTING DETAIL

2
E4.0
NO SCALE

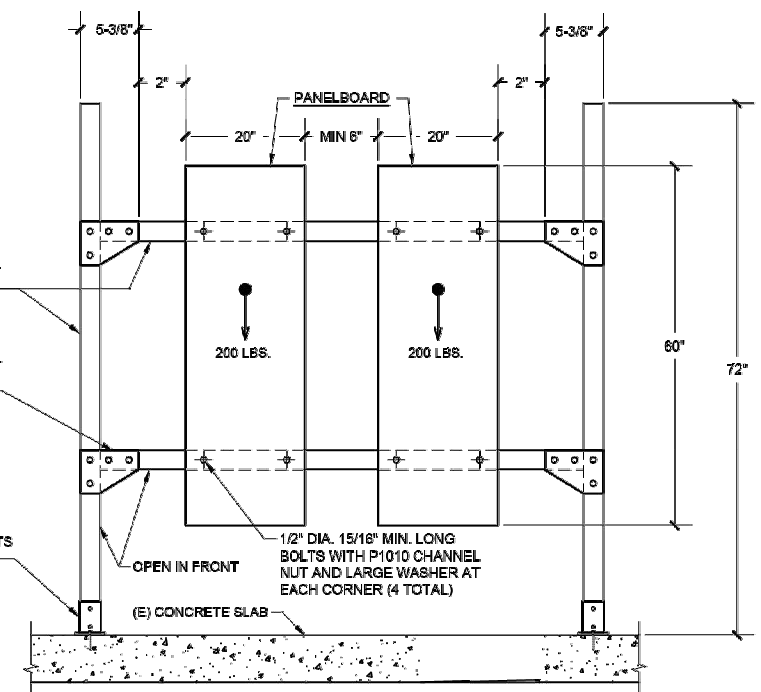


3 TRANSFORMER MOUNTING DETAIL

3
E4.0
NO SCALE



4 WALL PACK MOUNTING DETAIL (continued)



6 CONDUIT TRENCHING DETAIL (continued)

- NOTES:
- ALL UNISTRUT TO BE SOLID (NO SLOTTED HOLES ALLOWED).
 - TORQUE ALL UNISTRUT CONNECTIONS PER MANUFACTURER REQUIREMENTS.

5 FREE STANDING PANEL SUPPORT

5
E4.0
NO SCALE

June 17, 2025 - 10:30am
UNAUTHORIZED CHANGES & USBS:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025

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PLOT DATE: 6/17/25	REVISION DATE:	APPROVED BY: JLB

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
TITLE 24 WEIGH STATION - INDOOR LIGHTING

SHEET
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OF
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E5.1

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 180.0, 180.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages: (Page 1 of 7)		
Project Address:	Date Prepared: 2025-06-06T15:04:32-04:00		

A. GENERAL INFORMATION			
01 Project Location (city)	Redway, CA	04 Total Conditioned Floor Area (ft ²)	220
02 Climate Zone	2	05 Total Unconditioned Floor Area (ft ²)	0
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (1=habitable Above Grade)	0
■ Commercial Industrial			

B. PROJECT SCOPE					
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.					
Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02		03	
04		05			
My Project Consists of (check all that apply):		Calculation Method		Area (ft ²)	
<input checked="" type="checkbox"/> New Lighting System		Area Category Method		220	
<input type="checkbox"/> New Lighting System - Parking Garage		N/A		0	
Total Area of Work (ft ²)		220			

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
		Compliance ID: 282723-0625-0010 Report Generated: 2025-06-06 12:04:38	

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Weigh Station		Report Pages: (Page 4 of 7)	
Date Prepared: 2025-06-06T15:04:32-04:00			

H. INDOOR LIGHTING CONTROLS (Not including PAFs)								
Area Level Controls								
04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky Light Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector
Weigh Station	Restroom	Auth. Personnel	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	Pass Fail
Restroom	Restroom	Readily Accessible	NA: Enclosed area <100SF	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	Pass Fail
								13
								Plan Sheet: Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS					
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.					
Conditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment
Restroom	Restroom	0.65	140	91	Area Category PAF
Restroom	Restroom	0.65	80	52	No No
TOTALS:			220	145	See Tables J, or P for detail

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Weigh Station		Report Pages: (Page 2 of 7)	
Date Prepared: 2025-06-06T15:04:32-04:00			

C. COMPLIANCE RESULTS										
If any call on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.										
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08		
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	= Total Allowed (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	= Total Adjusted (Watts) *Includes Adjustments	
	(See Table I)	(See Table I)	(See Table J)	(See Table K)	= 143	≥	133.5	= 133.5	05 must be ≥ 08 140.6 / 170.2(e)	
Conditioned	143			=	143	≥	133.5	=	133.5	COMPLIES
Unconditioned				=		≥		=		COMPLIES
Controls Compliance (See Table H for Details)										COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)										

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Weigh Station		Report Pages: (Page 5 of 7)	
Date Prepared: 2025-06-06T15:04:32-04:00			

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS
This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))
This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS
This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
		Compliance ID: 282723-0625-0010 Report Generated: 2025-06-06 12:04:38	

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Weigh Station		Report Pages: (Page 3 of 7)	
Date Prepared: 2025-06-06T15:04:32-04:00			

F. INDOOR LIGHTING FIXTURE SCHEDULE											
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for dining, eating, cooking or sanitation, those luminaires are not included here.											
Designed Wattage: Conditioned Spaces											
01	02	03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector		
05	VANDAL RESISTANT LED	No	NA	26.7	Mfr. Spec	5	No	133.5	Pass	Fail	
Total Designed Watts: CONDITIONED SPACES							133.5				

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)3B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.
²Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 180.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. MODULAR LIGHTING SYSTEMS
This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)		
This table includes lighting controls for conditioned and unconditioned spaces.		
Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel		Pass Fail
See Area/Space Level Controls		<input type="checkbox"/> <input type="checkbox"/>

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
		Compliance ID: 282723-0625-0010 Report Generated: 2025-06-06 12:04:38	

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Weigh Station		Report Pages: (Page 6 of 7)	
Date Prepared: 2025-06-06T15:04:32-04:00			

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS
This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)
This section does not apply to this project.

T. DWELLING UNIT LIGHTING
This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online	
Form/Title	
NRCC-LT-E - Must be submitted for all buildings	

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: https://www.energy.ca.gov/title24/attcp/providers.html	
Form/Title	
NRCA-LT-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
Weigh Station; Restroom	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220101	Generated Date/Time:	Documentation Software: Energy Code Ace
		Compliance ID: 282723-0625-0010 Report Generated: 2025-06-06 12:04:38	

June 17, 2025 - 10:39 AM
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June 17, 2025



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PROJECT #: 19086.21

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ROAD NO:	MILE POST:	
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DRAWING FILE NAME:		REVIEWED BY: SKL/JLB
PLOT DATE: 6/17/25	REVISION DATE:	APPROVED BY: JLB

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
TITLE 24 WEIGH STATION - INDOOR & OUTDOOR LIGHTING

SHEET
54
OF
58

E5.2

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-2
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages:	(Page 7 of 7)
Project Address:	Date Prepared:	2025-06-06T15:04:32-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Julia L. Brodovsky	Documentation Author Signature:
Company: M. Neils Engineering	Signature Date: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	CEA/ NERB Certification Identification (if available):
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- I certify the following under penalty of perjury, under the laws of the State of California:
- The information provided on this Certificate of Compliance is true and correct.
 - I am eligible under Division 2 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 - The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 - The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 - I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner or occupant.

Responsible Designer Name: Julia L. Brodovsky	Responsible Designer Signature:
Company: M. Neils Engineering	Date Signed: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	License: E24535
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220301

Compliance ID: 282723-0625-0010
Report Generated: 2025-06-06 12:04:38

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9. NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.
130.0 GENERAL LUMINAIRE REQUIREMENTS ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c). ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).
130.1(a) MANUAL AREA CONTROLS EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUALLY CONTROLS SHALL: 1. BE READILY ACCESSIBLE 2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS. 3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.
130.1(b) MULTILEVEL LIGHTING CONTROLS GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.
130.1(c) SHUTOFF CONTROLS ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.
130.1(c)1: CONTROL REQUIREMENTS ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING: A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER) B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS) C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2
130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES: <ul style="list-style-type: none">• AISLE WAYS AND OPEN AREAS IN WAREHOUSES• LIBRARY BOOK STACK AISLES• CORRIDORS AND STAIRWELLS• OFFICES GREATER THAN 250 SQ. FT.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION. 1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e). 2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF. 3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT. 4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT. 5. SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON. 6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL. 7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER. 8. RESERVED 9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-2
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)(2) for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)(6), 180.1(a) and 180.2(b)(4B) for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages:	(Page 1 of 7)
Project Address:	Date Prepared:	2025-06-05T18:38:51-04:00

A. GENERAL INFORMATION

01 Project Location (city)	Redway, CA	04 Total Illuminated Hardscape Area (ft²):	500
02 Climate Zone	2		
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> 1Z-0: Very Low - Undeveloped Parkland	<input checked="" type="checkbox"/> 1Z-2: Moderate - Urban Clusters	<input type="checkbox"/> 1Z-4: High - Must be reviewed by CA Energy Commission for Approval	
<input type="checkbox"/> 1Z-1: Low - Rural Areas	<input type="checkbox"/> 1Z-3: Moderately High - Urban Areas		
05 Occupancy Types within Project			
• Commercial Industrial			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B) for alterations.

My Project Consists of:

01	02
<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)(6)
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input checked="" type="radio"/> Yes <input type="radio"/> No
03	04
% of Existing Luminaires Being Altered ¹	Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	Calculation Method

Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220301

Compliance ID: 282723-0625-0008
Report Generated: 2025-06-05 15:38:54

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-2
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages:	(Page 2 of 7)
Project Address:	Date Prepared:	2025-06-05T18:38:51-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table O, Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B)									
01	02	03	04	05	06	07	08	09	
General Hardscape Allowance 140.7(d)1 / 170.2(e)(6) (See Table I)	Per Application 140.7(d)2 / 170.2(e)(6) (See Table J)	Sales Fromage 140.7(d)2 / 170.2(e)(6) (See Table K)	Ornamental 140.7(d)2 / 170.2(e)(6) (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)(6) (See Table M)	Existing Power Allowance 141.0(b)(2) / 180.2(b)(4B) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08	
223	+	---	+	---	+	---	223	>=	68
Shielding Compliance (See Table G for Details)						N/A			
Controls Compliance (See Table H for Details)						COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220301

Compliance ID: 282723-0625-0008
Report Generated: 2025-06-05 15:38:54

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-2
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages:	(Page 3 of 7)
Project Address:	Date Prepared:	2025-06-05T18:38:51-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)(6) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e., existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designated Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(e) / 170.2(e)(6A)	Design Watts	Cutoff Req. > 6,200 initial lumen output / 130.2(b) / 160.5(c)(1) ⁴	Field Inspector
C1	OUTDOOR WALL LED	<input type="checkbox"/> Linear	68	1Mfr. Spec	1	New	<input type="checkbox"/> 68	NA: illuminate public right-of-way	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:								68	

¹ NOTES: Selections with a "1" require a note in the space below explaining how compliance is achieved.

EX: Luminaire is lighting a statue; EXCEPTION 2 to 180.2(b)

² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

³ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Generated Date/Time:

Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220301

Compliance ID: 282723-0625-0008
Report Generated: 2025-06-05 15:38:54

Jun 17, 2025 - 10:39 AM
UNAUTHORIZED CHANGES & USES:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025



**M. NEILS
ENGINEERING, INC.**

Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 19086.21

BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

CONTRACT NO.:

DRAWING FILE NAME:

PLOT DATE: 6/17/25

MILE POST:

EA NO.:

BRIDGE NO:

REVISION DATE:

M.NEILS ENGINEERING

DESIGNED BY: SKL

DRAWN BY: PI

REVIEWED BY: SKL/JLB

APPROVED BY: JLB

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

**TITLE 24 WEIGH STATION -
OUTDOOR LIGHTING**

SHEET

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OF

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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Outdoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTO-4	
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages: (Page 4 of 7)	Date Prepared: 2025-06-05T18:58:51-04:00	

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)(1) / 190.5(c)	Auto-Schedule 130.2(c)(2) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector	
				Pass	Fail
Front Entrance and Parking Lot: "C1"	Photocontrol	Provided	NA: Industrial Sites Lighting	<input type="checkbox"/>	<input type="checkbox"/>

¹NOTE: Text has been abbreviated; please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light sources.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from (1) and (3).

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 282723-0625-0008 Report Generated: 2025-06-05 15:38:54
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Outdoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTO-4	
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages: (Page 7 of 7)	Date Prepared: 2025-06-05T18:58:51-04:00	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Julia L. Brodovsky	Documentation Author Signature:
Company: M. Neils Engineering	Signature Date: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 2 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1, and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides on the building project at occupancy.

Responsible Designer Name: Julia L. Brodovsky	Responsible Designer Signature:
Company: M. Neils Engineering	Date Signed: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	License: E24535
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 282723-0625-0008 Report Generated: 2025-06-05 15:38:54
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STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Outdoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTO-4	
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages: (Page 5 of 7)	Date Prepared: 2025-06-05T18:58:51-04:00	

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardship Allowance is per Table 140.7-A/ Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B/ Table 170.2-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardship Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA) Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Front Entrance and Parking Lot	500	0.018	9.5	80	0.15	13.5	23
Initial Wattage Allowance for Entire Site (Watts):							200
Intensities of Initial Wattage Allowance (Lx 0 only):							
Total General Hardship Allowance (Watts):							223

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 282723-0625-0008 Report Generated: 2025-06-05 15:38:54
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Outdoor Lighting Mandatory Measures:

110.9 OUTDOOR LIGHTING CONTROLS AND COMPONENTS

ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS

ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).

ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.2(c) CONTROLS FOR OUTDOOR LIGHTING

ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:

1. AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE

2. AUTOMATIC SCHEDULING CONTROLS

- AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.
- CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
- THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Outdoor Lighting			
CERTIFICATE OF COMPLIANCE		NRCC-LTO-4	
Project Name: 19086.21 Redway Transfer Station - Weigh Station	Report Pages: (Page 6 of 7)	Date Prepared: 2025-06-05T18:58:51-04:00	

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title	Systems/Spaces To Be Field Verified
NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Front Entrance and Parking Lot: "C1"

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 282723-0625-0008 Report Generated: 2025-06-05 15:38:54
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Jan 17, 2025 - 10:39am
UNAUTHORIZED CHANGES & USBS:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025



**M. NEILS
ENGINEERING, INC.**
Electrical Engineers | Lighting Designers
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Sacramento, CA 95825-0217
www.mneilsengineering.com
Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 19086.21

ROAD NAME: CONSERVATION CAMP RD		M.NEILS ENGINEERING	
ROAD NO:	MILE POST:		
PROJECT NO.: 438005	EA NO.:	DESIGNED BY: SKL	
CONTRACT NO.:	BRIDGE NO:	DRAWN BY: PI	
DRAWING FILE NAME:		REVIEWED BY: SKL/JLB	
PLOT DATE: 6/17/25	REVISION DATE:	APPROVED BY: JLB	

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS	
REDWAY TRANSFER STATION	
TITLE 24 RECYCLE BUILDING - INDOOR LIGHTING	

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E5.4

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 180.0, 180.1, 140.6 and 142.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Page: (Page 1 of 7)		
Project Address:	Date Prepared: 2025-06-05T18:14:05-04:00		

A. GENERAL INFORMATION			
01 Project Location (city)	Redway, CA	04 Total Conditioned Floor Area (ft ²)	0
02 Climate Zone	2	05 Total Unconditioned Floor Area (ft ²)	2,400
03 Occupancy Types Within Project (select all that apply):		06 # of Stories (habitable Above Grade)	0
■ Warehouse			

B. PROJECT SCOPE					
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 142.0(b)2 / 180.2(b)4 for alterations.					
Scope of Work		Conditioned Spaces		Unconditioned Spaces	
01		02	03	04	05
My Project Consists of (check all that apply):		Calculation Method	Area (ft ²)	Calculation Method	Area (ft ²)
<input checked="" type="checkbox"/> New Lighting System		N/A	0	Complete Building Method	2400
<input type="checkbox"/> New Lighting System - Parking Garage		N/A	0	N/A	0
Total Area of Work (ft ²)				2400	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 281838-0625-0006 Report Generated: 2025-06-05 15:14:09
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building			
Report Page: (Page 4 of 7)		Date Prepared: 2025-06-05T18:14:05-04:00	

H. INDOOR LIGHTING CONTROLS (Not including PAFs)								
Area Level Controls								
04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) / 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1 / 170.2(e)2A	Field Inspector
Warehouse	Industrial/Manufacturing Facility	Readily Accessible	Dimmer	Auto. Time Switch	NA: Not daylight zone	NA: Not daylight zone	No	Pass <input type="checkbox"/> Fail <input type="checkbox"/>
								13
								Plan Sheet: Showing Daylit Zones:

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS					
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.					
Unconditioned Spaces					
01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowec Density (W/ft ²)	Area (ft ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category PAF
Warehouse	Industrial/Manufacturing Facility	0.8	2,400	1,440	No No
TOTALS:			2,400	1,440	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM	
This section does not apply to this project	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 281838-0625-0006 Report Generated: 2025-06-05 15:14:09
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building			
Report Page: (Page 2 of 7)		Date Prepared: 2025-06-05T18:14:05-04:00	

C. COMPLIANCE RESULTS													
If any call on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.													
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results				
	01	02	03	04	05	06	07	08					
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	= Total Allowed (Watts)	2	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		= Total Adjusted (Watts) *Includes Adjustments			
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)					
	Conditioned				=	2				=			
Unconditioned	1,440				=	1,440	2	581.52		=	581.52		COMPLIES
Controls Compliance (See Table H for Details)										COMPLIES			
Rated Power Reduction Compliance (See Table Q for Details)													

D. EXCEPTIONAL CONDITIONS	
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	

E. ADDITIONAL REMARKS	
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 281838-0625-0006 Report Generated: 2025-06-05 15:14:09
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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building			
Report Page: (Page 5 of 7)		Date Prepared: 2025-06-05T18:14:05-04:00	

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE	
This section does not apply to this project.	

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	
This section does not apply to this project.	

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING	
This section does not apply to this project.	

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS	
This section does not apply to this project.	

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE	
This section does not apply to this project.	

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))	
This section does not apply to this project.	

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS	
This section does not apply to this project.	

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS	
This section does not apply to this project.	

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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building			
Report Page: (Page 3 of 7)		Date Prepared: 2025-06-05T18:14:05-04:00	

F. INDOOR LIGHTING FIXTURE SCHEDULE											
This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for dining, eating, cooking or sanitation, those luminaires are not included here.											
Designed Wattage: Unconditioned Spaces											
01	02	03	04	05	06	07	08	09	10		
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change ¹	Watts per luminaire ²	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector		
A1	4FT WET LOCATION LED	No	NA	48.46	Mfr. Spec	12	No	581.52	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Designed Watts: UNCONDITIONED SPACES							581.52				
*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)3B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.											
*Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 180.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.											

G. MODULAR LIGHTING SYSTEMS	
This section does not apply to this project.	

H. INDOOR LIGHTING CONTROLS (Not including PAFs)		
This table includes lighting controls for conditioned and unconditioned spaces.		
Building Level Controls		
01	02	03
Mandatory Demand Response 110.12(c)	Snut-off controls 130.1(c) / 160.5(b)4C	Field Inspector
NA < 4,000W subject to multilevel		Pass <input type="checkbox"/> Fail <input type="checkbox"/>
See Area/Space Level Controls		

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STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LT-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building			
Report Page: (Page 6 of 7)		Date Prepared: 2025-06-05T18:14:05-04:00	

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	
This section does not apply to this project.	

T. DWELLING UNIT LIGHTING	
This section does not apply to this project.	

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online	
Form/Title	
NRCC-LT-E - Must be submitted for all buildings	

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html	
Form/Title	Systems/Spaces To Be Field Verified
NRCA-LT-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Warehouse

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June 17, 2025 - 10:30 AM
UNAUTHORIZED CHANGES & USBS:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025



**M. NEILS
ENGINEERING, INC.**
Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
Sacramento, CA 95825-8217
www.mneilsengineering.com
Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 19086.21

BAR IS ONE INCH ON
ORIGINAL DRAWING

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY

ROAD NAME: CONSERVATION CAMP RD		M.NEILS ENGINEERING
ROAD NO:	MILE POST:	
PROJECT NO.: 438005	EA NO.:	DESIGNED BY: SKL
CONTRACT NO.:	BRIDGE NO:	DRAWN BY: PI
DRAWING FILE NAME:		REVIEWED BY: SKL/JLB
PLOT DATE: 6/17/25	REVISION DATE:	APPROVED BY: JLB

COUNTY OF HUMBOLDT DEPARTMENT OF PUBLIC WORKS
REDWAY TRANSFER STATION
TITLE 24 RECYCLE BUILDING - INDOOR & OUTDOOR LIGHTING

SHEET
57
OF
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E5.5

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LT-01
Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages:	(Page 7 of 7)
Project Address:	Date Prepared:	2025-06-05T18:14:05-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Julia L. Brodovsky	Documentation Author Signature:
Company: M. Neils Engineering	Signature Date: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	CEA/ NERB Certification Identification (if available):
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

RESPONSIBLE PERSON'S DECLARATION STATEMENT

- I certify the following under penalty of perjury, under the laws of the State of California:
- The information provided on this Certificate of Compliance is true and correct.
 - I am eligible under Division 2 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 - The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 - The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 - I will ensure that a notarized signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation that the building provides to the building owner or occupant.

Responsible Designer Name: Julia L. Brodovsky	Responsible Designer Signature:
Company: M. Neils Engineering	Date Signed: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	License: E24535
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

Generated Date/Time:

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Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9. NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.
130.0 GENERAL LUMINAIRE REQUIREMENTS ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c). ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).
130.1(a) MANUAL AREA CONTROLS EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUALLY. CONTROLS SHALL: 1. BE READILY ACCESSIBLE 2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS. 3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.
130.1(b) MULTILEVEL LIGHTING CONTROLS GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.
130.1(c) SHUTOFF CONTROLS ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.
130.1(c)1: CONTROL REQUIREMENTS ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING: A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER) B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS) C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2
130.1(c)3.4 OVERRIDE FOR BUILDING LIGHTING SHUT-OFF AREAS SERVED BY SHUT-OFF CONTROLS (OTHER THAN OCCUPANT SENSORS) SHALL: 130.1(c)3. INCLUDE MANUAL OVERRIDE CONTROL THAT COMPLIES WITH 130.1(a) AND ALLOWS LIGHTING TO REMAIN ON FOR UP TO 2 HOURS; AND 130.1(c)4. PROVIDE AUTOMATIC HOLIDAY "SHUTOFF".
130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES: <ul style="list-style-type: none">AISLE WAYS AND OPEN AREAS IN WAREHOUSESLIBRARY BOOK STACK AISLESCORRIDORS AND STAIRWELLSOFFICES GREATER THAN 250 SQ. FT.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION. 1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e). 2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF. 3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT. 4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT. 5. SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON. 6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL. 7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER. 8. RESERVED 9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LT-01
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)(2) for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)(5), 180.1(a) and 180.2(b)(4B) for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages:	(Page 1 of 8)
Project Address:	Date Prepared:	2025-06-05T18:15:33-04:00

A. GENERAL INFORMATION

01 Project Location (city)	Redway, CA	04 Total Illuminated Hardscape Area (ft²)	5400
02 Climate Zone	2		
03 Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): <input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland <input checked="" type="checkbox"/> LZ-2: Moderate - Urban Clusters <input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval <input type="checkbox"/> LZ-1: Low - Rural Areas <input type="checkbox"/> LZ-3: Moderately High - Urban Areas			
05 Occupancy Types within Project • Warehouse			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B) for alterations.

My Project Consists of:

01		02	
<input checked="" type="checkbox"/> New Lighting System		Must Comply with Allowances from 140.7 / 170.2(e)(6)	
<input type="checkbox"/> Altered Lighting System		Is your alteration increasing the connected lighting load (Watts)? <input checked="" type="radio"/> Yes <input type="radio"/> No	
03		04	05
% of Existing Luminaires Being Altered ¹		Sum Total of Luminaires Being Added or Altered	Calculation Method
<input type="checkbox"/> < 50%	<input type="checkbox"/> >= 10% and < 50%	<input type="checkbox"/> >= 50%	

Please proceed to Table F: Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

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STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
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C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table O: Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)(6) or 141.0(b)(2) / 180.2(b)(4B)										Compliance Results		
01	02	03	04	05	06	07	08	09				
General Hardscape Allowance 140.7(d)1 / 170.2(e)(6) (See Table I)	Per Application 140.7(d)2 / 170.2(e)(6) (See Table J)	Sales Fromage 140.7(d)2 / 170.2(e)(6) (See Table K)	Ornamental 140.7(d)2 / 170.2(e)(6) (See Table L)	Per Specific Area 140.7(d)2 / 170.2(e)(6) (See Table M)	Existing Power Allowance 141.0(b)(2) / 180.2(b)(4B) (See Table N)	=	Total Allowed (Watts)	≥	Total Actual (Watts)	07 must be >= 08		
332.6	+	45	+	---	OR	---	=	377.6	≥	270	COMPLIES	
Shielding Compliance (See Table G for Details)										N/A		
Controls Compliance (See Table H for Details)										COMPLIES		

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION
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Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages:	(Page 3 of 8)
Project Address:	Date Prepared:	2025-06-05T18:15:33-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)(6) all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)(2) only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Designated Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total Number Luminaires ²	Luminaire Status ³	Excluded per 140.7(e) / 170.2(e)(6A)	Design Watts	Cutoff Req. > 6,200 initial lumen output (130.2(b) / 160.5(c)(1) ⁴	Field Inspector
C2	OUTDOOR WALL LED <input type="checkbox"/> Linear	80	1Mfr. Spec	3	New	<input type="checkbox"/>	270	N/A: Exception In Section 140.7(a)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:								270	

¹ NOTES: Sections with a "1" require a note in the space below explaining how compliance is achieved.

EX: Luminaire in lighting is a statue: EXCEPTION 2 to 180.2(b)

² FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

³ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.

⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

⁵ Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b) / 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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Documentation Software: Energy Code Ace

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Compliance ID: 281836-0625-0008
Report Generated: 2025-06-05 15:15:36

Jun 17, 2025 - 10:35am
UNAUTHORIZED CHANGES & USBS:
M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



June 17, 2025



M. NEILS ENGINEERING, INC.

Electrical Engineers | Lighting Designers
100 Howe Ave., Suite 235N
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Tel: (916) 923-4400 Fax: (916) 923-4410
PROJECT #: 19086.21

BAR IS ONE INCH ON
ORIGINAL DRAWING

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THIS SHEET, ADJUST
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ROAD NAME: CONSERVATION CAMP RD

ROAD NO:

PROJECT NO.: 438005

CONTRACT NO.:

DRAWING FILE NAME:

PLOT DATE: 6/17/25

MILE POST:

EA NO.:

BRIDGE NO:

REVIEWED BY: SKL/JLB

REVISION DATE:

M.NEILS ENGINEERING

DESIGNED BY: SKL

DRAWN BY: PI

APPROVED BY: JLB

COUNTY OF HUMBOLDT
DEPARTMENT OF PUBLIC WORKS

REDWAY TRANSFER STATION

TITLE 24 RECYCLE BUILDING - OUTDOOR LIGHTING

SHEET

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OF

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E5.6

STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages: (Page 4 of 8)	Date Prepared: 2025-06-05T18:15:33-04:00	

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.

Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit.

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05
Area Description	Shut-Off 130.2(c)(1) / 160.5(c)	Auto-Schedule 130.2(c)(2) / 160.5(c)	Motion Sensor 130.2(c)(3) / 160.5(c)	Field Inspector
Warehouse Entrances: "C2"	Other Control	Provided	NA: Industrial Site Lighting	Pass Fail

¹FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

²Authority having jurisdiction may ask for cutsheet or other documentation to confirm compliance of light source.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are exempted from it and III.

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O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title

NRCC-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

Form/Title

Systems/Spaces To Be Field Verified

NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.

Warehouse Entrances: "C2"

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STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
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Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages: (Page 5 of 8)	Date Prepared: 2025-06-05T18:15:33-04:00	

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardship Allowance is per Table 140.7-A/Table 170.2-A while "Use it or lose it" Allowances are per Table 140.7-B / Table 170.2-S. Indicates which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H, and are not included here. All other multifamily outdoor lighting is included here.

Calculated General Hardship Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Around Recycle Warehouse	5400	0.019	102.6	200	0.15	30	132.6

Initial Wattage Allowance for Entire Site (Watts): 200

Instances of Initial Wattage Allowance (LTO only):

Total General Hardship Allowance (Watts): 332.6

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 281838-0625-0008 Report Generated: 2025-06-05 15:35:36
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STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
Project Name: 19086.21 Redway Transfer Station - Recycle Building	Report Pages: (Page 8 of 8)	Date Prepared: 2025-06-05T18:15:33-04:00	

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Julia L. Brodovsky	Documentation Author Signature:
Company: M. Neils Engineering	Signature Date: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	CEA/ FERS Certification Identification (if applicable):
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am a light, under Division 8 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, cutsheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building provides to the building owner at occupancy.

Responsible Designer Name: Julia L. Brodovsky	Responsible Designer Signature:
Company: M. Neils Engineering	Date Signed: 06/17/2025
Address: 100 HOWE AVE, SUITE 235N	License: E24535
City/State/Zip: SACRAMENTO, CA 95825	Phone: (916) 923-4400

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance		Generated Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220101	Documentation Software: Energy Code Ace Compliance ID: 281838-0625-0008 Report Generated: 2025-06-05 15:35:36
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STATE OF CALIFORNIA Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	
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J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B ¹	Calculated Allowance (Watts)	Allowance per Location ²	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Warehouse Entrances	Building Entrance/Exit	3	15	45	C2	90	3	270	45
Total Design Watts for this Area: 270									
Total Allowance (Watts) All Areas: 45									

¹FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

²The Allowance per Location for ATM is 100W for the first ATM and 35W for each additional per Table 140.7-B / Table 170.2-S.

³For luminaires indicated in Table F as Area; wattage in column 07 is W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

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Outdoor Lighting Mandatory Measures:

110.9 OUTDOOR LIGHTING CONTROLS AND COMPONENTS

ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

130.0 GENERAL LUMINAIRE REQUIREMENTS

ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c). ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.2(c) CONTROLS FOR OUTDOOR LIGHTING

ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS AND SHALL HAVE THE FOLLOWING FEATURES:

2. AUTOMATIC SCHEDULING CONTROLS
- A. AUTOMATIC SCHEDULING CONTROLS SHALL BE INSTALLED FOR ALL OUTDOOR LIGHTING.
- B. CAPABLE OF REDUCING LIGHTING POWER AT LEAST 50% AND NO MORE THAN 90% AND SEPARATELY CAPABLE OF TURNING LIGHTING OFF DURING UNOCCUPIED PERIODS
- C. THAT ALLOW SCHEDULING OF AT LEAST TWO NIGHTTIME PERIODS WITH INDEPENDENT LIGHTING LEVELS (MAY INCLUDE OVERRIDE FOR NO MORE THAN 2 HOURS)