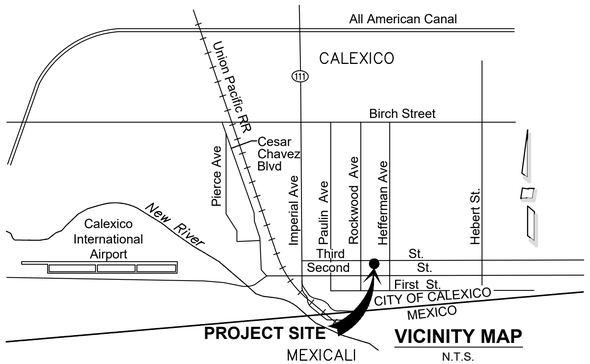

VICINITY MAP
N.T.S.

CITY OF CALEXICO
IMPERIAL COUNTY, CALIFORNIA

CONSTRUCTION PLANS FOR

CALEXICO INTERMODAL TRANSPORTATION CENTER

FEBRUARY 2024

PROJECT INFORMATION

OWNER
IMPERIAL COUNTY
TRANSPORTATION COMMISSION
1503 N IMPERIAL AVE #104
EL CENTRO, CA 92243
PHONE: 760-592-4494

ENGINEER
PSOMAS
401 B STREET
SUITE 1600
SAN DIEGO, CA. 92101
PHONE: 619-961-2800

CITY COUNCIL

Raul Ureña	MAYOR
Gloria G. Romo	MAYOR PRO TEM
Camilo Garcia	COUNCIL MEMBER
Javier Moreno	COUNCIL MEMBER
Gilberto Manzanarez	COUNCIL MEMBER

PARTICIPATING CITY STAFF

Esperanza Colio Warren	CITY MANAGER
Liliana Falomir	PUBLIC WORKS MANAGER
Veronica Luna-Alvarado	CITY CLERK
	CITY ATTORNEY
	CITY ENGINEER
	CITY PROJECT INSPECTOR
	CHIEF FINANCIAL OFFICER
	– COLLECTIONS

BASIS OF COORDINATES

THE COORDINATES SHOWN HEREON ARE BASED ON CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 6, EPOCH 1991.35, IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCE CODE SECTIONS 8801–8819; SAID COORDINATES ARE BASED UPON FIELD OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK, OR EQUIVALENT STATIONS:

REFERENCED CALEXICO LPOE CONTROL STATIONS CONNECTED

STATION	NAME	NORTHING (FI)	EASTING (FI)	ELLIPSE HEIGHT	SOURCE
21	WP-21 SET SCRB	1822891.538	6791542.245	-139.218	
108	HV-108 FD. MAG &	1822987.883	6793619.586	-109.449	
5261	FD CHIS + IN S/W	1823143.327	6791788.836	-138.853	
7340	CP MAG ELY PKG	1822754.725	6793798.633	-108.701	
9634	CP M/W ALLEY	1823230.314	6793088.297	-109.992	

BENCHMARK

THE ELEVATIONS SHOWN HEREON ARE BASED UPON THE CALIFORNIA ORTHOMETRIC HEIGHTS OF 1988 (NAVD88) IN ACCORD WITH THE CALIFORNIA PUBLIC RESOURCE CODE SECTIONS 8890–8902; SAID ELEVATION ARE BASED LOCALLY UPON FIELD OBSERVATIONS FOLLOWING CALIFORNIA SPATIAL NETWORK, OR EQUIVALENT STATIONS:
NOTE: ALL MAPPING PRODUCTS ARE NAVD88+500.00 FEET, TO ENSURE POSITIVE ELEVATION NUMBERS

STATION	NAME	ELEVATION FEET	SOURCE	PUBLISHED ACCURACY
21	WP-21 SET SCRB	-25.550		-139.218
108	HV-108 FD. MAG &	4.250		-109.449
5261	FD CHIS + IN S/W	-25.180		-138.853
7340	CP MAG ELY PKG	5.000		-108.701
9634	CP M/W ALLEY	3.700		-109.992

LOTS 1 THROUGH 14 OF THE RE-SUBDIVISION OF BLOCK 59 OF THE TOWNSITE OF CALEXICO, IN THE CITY OF CALEXICO, COUNTY OF IMPERIAL, STATE OF CALIFORNIA, AS PER MAP NO. 1056 ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, A COPY OF SAID MAP BEING ON FILE IN THE OFFICE OF THE COUNTY RECORDER OF IMPERIAL COUNTY.

SOURCE OF TOPOGRAPHY

THE EXISTING TOPOGRAPHY SHOWN HEREON WAS PREPARED BY PSOMAS AND IS BASED ON AERIAL PHOTOGRAMMETRY FLOWN ON OCTOBER 21, 2020 AND SUPPLEMENTED WITH A FIELD SURVEY, COMPLETED ON OCTOBER 29, 2020.

WORK TO BE DONE

THE WORK TO BE DONE SHALL BE IN ACCORDANCE WITH THESE PLANS AND THE SPECIFICATIONS, AND SHALL INCLUDE DEMOLITION (EXCLUDING BUILDINGS), EARTHWORK, UNDERGROUND UTILITIES, INSTALLATION OF PAVEMENT, STORM DRAIN WATER QUALITY MANAGEMENT, SITE LANDSCAPING, AND THE CONSTRUCTION OF THE TICKETING BUILDING AND SHADE STRUCTURES; TO INCLUDING SITE MECHANICAL, ELECTRICAL, AND PLUMBING. ALSO INCLUDED ARE BULBOUT IMPROVEMENTS AT THE INTERSECTIONS OF 3RD AVE./ROCKWOOD AVE. AND 3RD AVE./HEFFERNAN AVE. AND IMPROVEMENTS TO THE SIDEWALK ALONG THE EAST SIDE OF ROCKWOOD AVE., SOUTH OF THE PROJECT SITE.

THE CONTRACTOR SHALL MAKE HIS BEST EFFORT TO RECYCLE AS MUCH AS POSSIBLE OF THE DEMOLISHED MATERIALS AT AN APPROVED RECYCLING FACILITY.

GENERAL NOTES

1. CITY OF CALEXICO APPROVED PLANS WILL TAKE PRECEDENCE. ENCROACHMENT PERMIT WILL REFERENCE THESE PLANS.
2. THE STRUCTURAL PAVEMENT SECTION SHALL BE IN ACCORDANCE WITH CITY OF CALEXICO STANDARDS (OR CALTRANS IF IN STATE ROW) AND AS APPROVED BY THE PUBLIC WORKS DIRECTOR (OR CALTRANS).
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. ALL PROPOSED NEW UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS-GUTTER AND PAVING.
5. THE EXISTENCE AND LOCATION OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING FACILITIES EXCEPT AS SHOWN ON THESE PLANS. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
7. UTILITIES COORDINATION

   NO LESS THAN 7 WORKING DAYS PRIOR TO ANY EXCAVATION OR TRENCHING, EACH CONTRACTOR DOING SUCH WORK SHALL CONTACT THE FOLLOWING AGENCIES SO THAT EXISTING UNDERGROUND UTILITIES MAY BE LOCATED. THE AGENCY MAY REQUIRE AN INSPECTOR TO BE PRESENT.

   – CITY OF CALEXICO ENGINEERING DEPARTMENT (760) 768–2100
   – CITY OF CALEXICO GENERAL SERVICES DEPARTMENT (760) 768–2160
   – IMPERIAL IRRIGATION DISTRICT (IID) (POWER) (760) 339–9280
   – AT&T (800) 422–4133
   – SOUTHERN CALIFORNIA GAS CO. (800) 422–4133/(800) 227–2600
   – TIME WARNER CABLE (888) 892–2253

   EXISTING UNDERGROUND UTILITIES

   BEFORE EXCAVATING FOR THIS CONTRACT, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAS BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY FIELD MEASUREMENTS BY CONTRACTOR PRIOR TO CONSTRUCTION OF WORK.

   CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY FACILITIES SHOWN HEREON AND ANY OTHER EXISTING FACILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

   ACCURATE VERIFICATION AS TO SIZE, LOCATION AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL NOTIFY THE CITY OF CALEXICO, THE SOUTHERN CALIFORNIA GAS COMPANY, AT&T TELEPHONE COMPANY, IMPERIAL IRRIGATION DISTRICT AND ANY OTHER AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK NEAR SUCH UTILITY FACILITIES AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
9. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY STRIPING, PAVEMENT MARKERS, OR LEGENDS OBLITERATED BY THE CONSTRUCTION OF THIS PROJECT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE AN ENCROACHMENT PERMIT FROM THE CITY OF CALEXICO DEPARTMENT OF DEVELOPMENT SERVICES FOR ANY EXCAVATION OR CONSTRUCTION WITHIN CITY OF CALEXICO ROAD RIGHT-OF-WAY. FOR INSPECTIONS, 48 HOUR MINIMUM NOTICE IS REQUIRED. ADDITIONALLY, UNDERGROUND SERVICE ALERT (USA) MUST BE CALLED, AT 811, TWO WORKING DAYS BEFORE THE CONTRACTOR MAY EXCAVATE. ALL WORK AND MATERIALS ARE SUBJECT TO THE INSPECTION AND APPROVAL FROM THE CITY OF CALEXICO DEPARTMENT OF PUBLIC WORKS OR THEIR REPRESENTATIVE.
11. NO REVISIONS OF ANY KIND SHALL BE MADE TO THESE PLANS WITHOUT THE PRIOR WRITTEN APPROVAL OF BOTH THE CITY OF CALEXICO ENGINEER (OR HIS REPRESENTATIVE) AND THE ENGINEER OF RECORD. A REPRODUCIBLE AS-BUILT PLAN SET WILL BE PROVIDED TO THE PUBLIC WORKS DEPARTMENT AS A CONDITION OF SUBSTANTIAL CONSTRUCTION COMPLETION AND PRIOR TO ACCEPTANCE.

GENERAL NOTES (CON'T)

12. ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS, THE CITY OF CALEXICO DEPARTMENT OF PUBLIC WORKS STANDARDS AND ENCROACHMENT PERMIT CONDITIONS, ANY OTHER REFERENCED STANDARDS OR SPECIFICATIONS AND THE SPECIFICATIONS AND REQUIREMENTS OF THE AGENCIES REFERRED TO HEREIN. ALL WORK SHOWN OR INDICATED BY THESE PLANS SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARDS, POLICIES AND REGULATIONS OF THE CITY OF CALEXICO; WHERE, OR IF, CONFLICTS OCCUR, THE CITY OF CALEXICO REQUIREMENTS SHALL GOVERN.
13. IF NECESSARY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF SAFETY AND TO ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS AND STANDARDS.
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT FROM THE STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY. CONTACT "STATE WATER RESOURCES CONTROL BOARD, DIVISION OF WATER QUALITY, ATTENTION: STORM WATER PERMIT UNIT, P.O. BOX 1977, SACRAMENTO, CALIFORNIA, 95812.
15. CONSTRUCTION PROJECTS DISTURBING MORE THAN ONE ACRE MUST OBTAIN A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. OWNER/DEVELOPERS ARE REQUIRED TO FILE A NOTICE OF INTENT (NOI) WITH THE STATE WATER RESOURCES CONTROL BOARD, PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PLAN FOR THE SITE.
16. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE CURRENT WORK AREA TRAFFIC CONTROL HANDBOOK OR AS DIRECTED BY THE CITY OF CALEXICO ENGINEER.
17. ANY EXISTING SURVEY MONUMENTS OR CITY OF CALEXICO RECOGNIZED BENCHMARKS SHALL BE PROTECTED BY THE CONTRACTOR. SHOULD ANY SUCH MONUMENTS OR BENCHMARKS BE REMOVED, DAMAGED, OBLITERATED OR ALTERED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER RESETTING OF THE SAME AS PER THE SUBDIVISION MAP ACT, THE PROFESSIONAL LAND SURVEYORS ACT AND TO THE SATISFACTION OF THE CITY OF CALEXICO ENGINEER/GENERAL SERVICES DIRECTOR. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR A REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER.
18. THE NOTES LISTED ABOVE ARE A MINIMUM LIST. THIS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH ADDITIONAL NOTES THAT ARE SHOWN OR REFERENCED HEREIN.
19. CONTRACTOR SHALL COORDINATE WITH ADJACENT LANDOWNER FOR TRAFFIC CONTROL WITHIN AFFECTING ADJACENT LOTS.
20. CONTRACTOR SHALL COORDINATE WITH SOUTHERN CALIFORNIA GAS COMPANY FOR INSTALLATION OF ONSITE GAS LINE AND METER. CONTRACTOR IS RESPONSIBLE FOR ALL COST TO PROVIDE GAS SERVICE.
21. UNLESS SPECIFICALLY INDICATED OTHERWISE METHODS EMPLOYED AND MATERIAL USED IN THE CONSTRUCTION OF ALL OFFSITE IMPROVEMENTS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE "STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2022". ALL WORK IS SUBJECT TO INSPECTION AND APPROVAL AS REQUIRED.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THE PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CALEXICO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

JAMES BLISS, P.E.
PSOMAS
401 B STREET, SUITE 1600
SAN DIEGO, CALIFORNIA 92101
(619) 961-2800

SIGNED: _____ 02/01/24
JAMES BLISS, P.E. DATE
RCE# 41795

CALL BEFORE YOU DIG — UNDERGROUND SERVICE ALERT CALL: TOLL FREE 811 — TWO WORKING DAYS BEFORE YOU DIG

SHEET INDEX:

C1.0

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER — JAMES S. BLISS — No. 41795 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TITLE SHEET, VICINITY MAP & GENERAL NOTES

SHEET: 1 OF 145

BID DELIVERABLE

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SPECIAL NOTES

1. ALL EXISTING IMPROVEMENTS INCLUDING A.C. BERM, A.C. OR P.C.C. PAVING, WHICH ARE BEING JOINED OR MATCHED IN CONNECTION WITH THIS PROJECT SHALL BE JOINED OR MATCHED IN A MANNER SATISFACTORY TO THE CITY ENGINEER INCLUDING NECESSARY SAWCUTTING, REMOVAL, REPLACEMENT AND CAPPING.

2. THE CONTRACTOR SHALL DESIGN, PLACE AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND BARRICADING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. THE CONTRACTOR IS REFERRED TO SECTION 5-7 "SAFETY" OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

3. ANY CONTRACTOR PERFORMING WORK ON THE PROJECT SITE SHALL FAMILIARIZE SELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM OPERATIONS. THE CONTRACTOR IS REFERRED TO SECTION 400 "PROTECTION AND RESTORATION" OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

4. ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES DURING PROJECT CONSTRUCTION.

5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL MEASURES THROUGHOUT THE DURATION OF PROJECT CONSTRUCTION. PROJECT SITE MAINTENANCE SHALL CONFORM TO SECTION 3-12 "WORK SITE MAINTENANCE" OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

6. ALL DISTANCES AND DIMENSIONS SHOWN ON THE PLANS ARE IN A HORIZONTAL PLANE UNLESS OTHERWISE NOTED.

7. APPROVAL OF THESE PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT LIMITS OF WORK.

8. LOCATION AND ELEVATION OF IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF NECESSARY BECAUSE OF DISCREPANCIES.

9. NEITHER THE CITY OF CALEXICO, NOR THE ENGINEER OF WORK, WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.

10. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

11. THE ENGINEER OF WORK SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK OR THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR OR SUBCONTRACTORS OR THEIR RESPECTIVE EMPLOYEES OR BY ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEER'S EMPLOYEES.

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

TRAFFIC CONTROL PLAN NOTE

IT IS RESPONSIBILITY OF THE CONTRACTOR TO SUBMIT THE TRAFFIC CONTROL PLAN FOR THIS PROJECT AT THE TIME OF REQUEST OF THE CITY OF CALEXICO ENCROACHMENT PERMIT

STANDARD SPECIFICATIONS

1. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2021 EDITION.
2. CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS, 2022 EDITION.
3. CALEXICO CITY ENGINEERING STANDARDS.
4. COUNTY OF IMPERIAL DEPARTMENT OF PUBLIC WORKS ENGINEERING DESIGN GUIDELINES MANUAL, PREPARED 2002, REVISED 2004.

AGENCY CONTACTS

CALTRANS
4050 TAYLOR STREET
SAN DIEGO, CA 92110
PHONE: (619) 688-6158
FAX: (619) 688-6157

IMPERIAL IRRIGATION DISTRICT
ENERGY DEPARTMENT
333 E. BARIONI BLVD.
IMPERIAL, CA. 92251
PHONE: 760-335-3640
FAX: 760-339-9471

TELEPHONE
AT&T
PHONE: 1-800-750-2355

SOUTHERN CALIFORNIA GAS COMPANY
CONTACT: ENRIQUE CUEVAS
602 E. ROSS ROAD, SC8054
EL CENTRO, CA 92243-1515
PHONE: 760-370-5812
FAX: 760-352-5721

TIME WARNER CABLE
PHONE: (888) 892-2253

CITY OF CALEXICO
CONTACT: LILLIANA FALOMIR
608 HEBER AVENUE
CALEXICO, CA 92231
PHONE: 760-768-2100
FAX: 760-768-0854
EMAIL: FALOMIRL@CALEXICO.CA.GOV

FIRE
CONTACT: F. VILLA
CALEXICO FIRE DEPARTMENT
415 FOURTH STREET
CALEXICO, CA. 92231
PHONE: 760-768-2150
EMAIL: FVILLA@CALEXICO.CA.GOV

POLICE
CALEXICO POLICE DEPARTMENT
420 E. FIFTH STREET
CALEXICO, CA. 92231
PHONE: 760-768-2140
EMAIL: POLICE@CALEXICO.CA.GOV

CITY OF CALEXICO
UTILITY SERVICE DEPARTMENT
WATER: 760-768-2160
SEWER: 760-768-2160
GENERAL SERVICES: 760-768-2160

EXISTING CONDITIONS LEGEND

ITEM	SYMBOL
PROPERTY / BOUNDARY LINE	
PROPERTY / BOUNDARY LINE	
CENTER LINE	
EXIST OVERHEAD ELECTRICAL	OHE
EXIST GAS LINE	G
EXIST UNDERGROUND TELEPHONE LINE	T
EXIST ELECTRICAL UNDERGROUND LINE	UGE
EXIST ELECTRICAL/CATV OVERHEAD LINE	OH E/TV
EXIST FENCE LINE	
EXIST FIRE HYDRANT	
EXIST PALM TREE	
EXIST TREE	
EXIST MAILBOX	
EXIST SEWER MANHOLE	SMH
EXIST STORM DRAIN MANHOLE	SDMH
EXIST POWER POLE	PP
EXIST SIGN	
EXIST ELECTRICAL PULL BOX	
EXIST BOLLARD	BL
EXIST PAYPHONE	
EXIST CATCH BASIN	
EXIST WATER VALVE	WV
EXIST PARKING METER	PM
EXIST WATER METER	
EXIST ROOF DRAIN	
EXIST SEWER CLEAN OUT	
EXIST FIRE SERVICE CONNECTION	FS
EXIST SEWER LINE	S
EXIST STORM DRAIN	SD
EXIST STREET LIGHT	
EXIST LIGHT STANDARD	
EXIST HANDICAP PARKING	
EXIST POST/POLE	
EXIST DRAIN INLET	
EXIST WATER VALVE	
EXIST WATER LINE	W
EXIST WATER METER	
EXIST SPOT ELEVATION	500.0
EXIST TOPO CONTOUR	885
EXIST CURB & GUTTER	
EXIST SIDEWALK	
EXIST CONCRETE EDGE	
EXIST RETAINING WALL	
EXIST BUILDING FOOT PRINT LINE	
EXIST BULD OUTLINE/OVERHANG	

ABBREVIATIONS

AB	AGGREGATE BASE
ABAND	ABANDONED
AC	ASPHALTIC CONCRETE
ACP	ASBESTOS CEMENT PIPE
APPROX	APPROXIMATE
ASPH	ASPHALT
AVV	AIR VACUUM VALVE
BOV	BLOW-OFF VALVE
BFV	BUTTERFLY VALVE
C&G	CURB AND GUTTER
CATV	CABLE TELEVISION
CL	CENTERLINE
C.L.	CHAIN LINK
CLR	CLEAR
CI	CAST IRON
CO	CLEANOUT
CONC	CONCRETE
DI	DUCTILE IRON
DIA	DIAMETER
D/W	DRIVEWAY
DWG	DRAWING
E	EAST
E	ELECTRICAL
EL	ELEVATION
EX	EXISTING
FH	FIRE HYDRANT
FJ	FLANGED JOINT
FL	FLOW LINE
FO	FIBER OPTIC
FT	FEET
G	GAS
GV	GATE VALVE
HORI	HORIZONTAL
HP	HIGH PRESSURE
ICTC	IMPERIAL COUNTY TRANSPORTATION COMMISSION
IE	INVERT ELEVATION
IID	IMPERIAL IRRIGATION DISTRICT
LB	POUND
LF	LINEAL FEET
LG	LIP OF GUTTER
LP	LIGHT POLE
M	MECHANICAL
MH	MANHOLE
MJ	MECHANICAL JOINT
MIN	MINIMUM
N	NORTH
OH	OVERHEAD
P/L	PROPERTY LINE
PR	PRESSURE RATING
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RPBF	REDUCED PRESSURE BACKFLOW PREVENTER
R/W	RIGHT OF WAY
S	SLOPE
S	SOUTH
SS	SANITARY SEWER
SD	STORM DRAIN
SMH	SEWER MANHOLE
STA	STATION
STD	STANDARD
T	TELEPHONE
TOPO	TOPO GRAPHIC
TYP	TYPICAL
UNK	UNKNOWN
VCP	VITRIFIED CLAY PIPE
VERT.	VERTICAL
W	WATER
W	WEST
W/	WITH

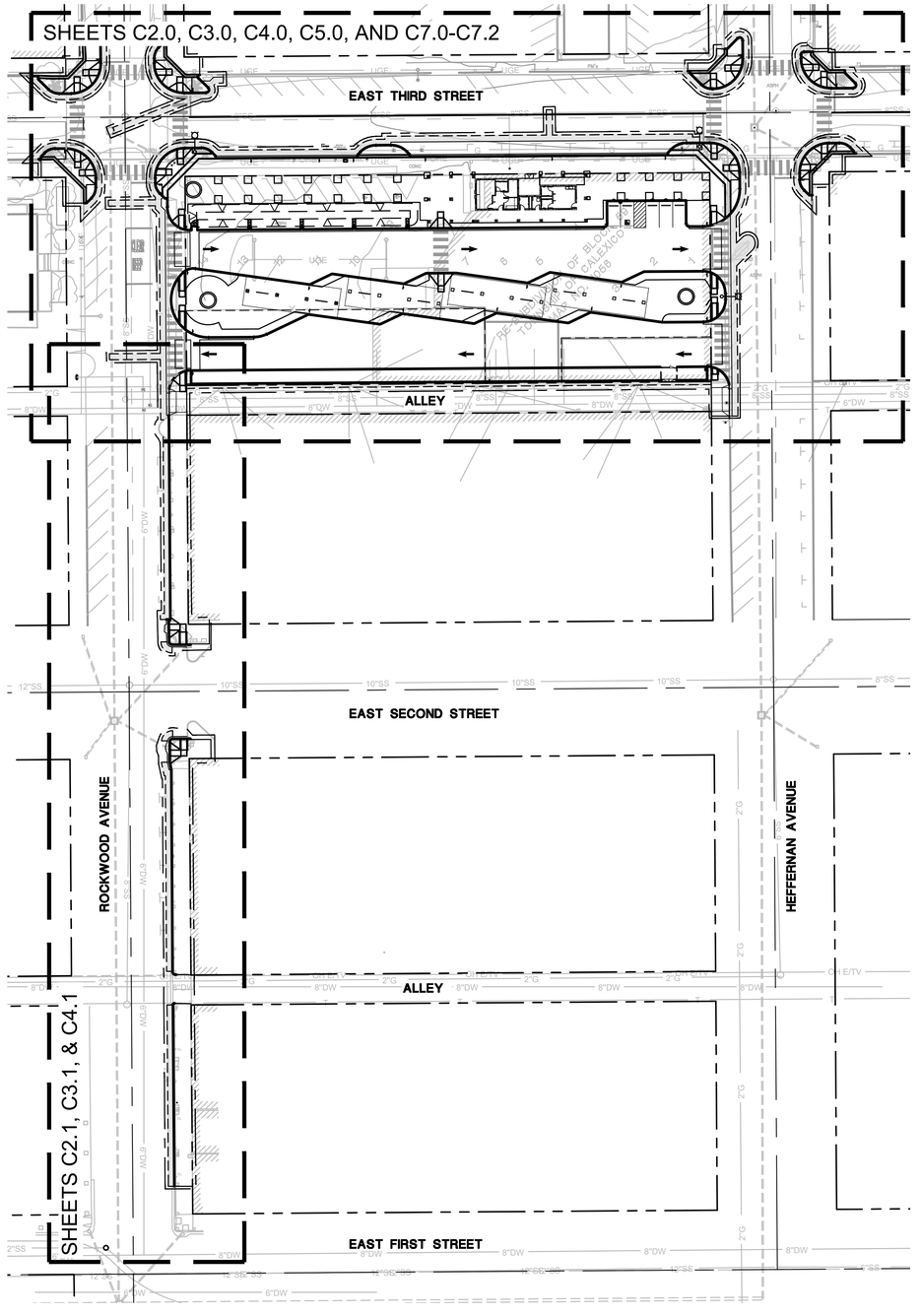
ESTIMATED EARTHWORK QUANTITIES

EXCAVATION	5,290	CY	(EXCAVATE/REMOVE EXIST PAVEMENTS & SOILS)
FILL	275	CY	
EXPORT	5,015	CY	(EXCAVATE/REMOVE EXIST PAVEMENTS & SOILS)

EARTHWORK QUANTITIES SHOWN ARE ESTIMATED & ARE FOR REFERENCE ONLY. CONTRACTOR SHALL PERFORM THEIR OWN INDEPENDENT EARTHWORK QUANTITY CALCULATIONS.

SWPPP NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT. THE SWPPP MUST BE PREPARED BY A QUALIFIED SWPPP DEVELOPER (QSD) AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL THEN SUBMIT THE SWPPP TO THE STATE SMARTS SYSTEM. CONTRACTOR MUST MAINTAIN THE SERVICE OF A QUALIFIED SWPPP PRACTITIONER (QSP) DURING WORK OPERATIONS TO MONITOR THE WORK AND PROVIDE REQUIRED REPORTING INTO SMARTS.



OVERALL SITE PLAN AND KEY MAP

SCALE: HORIZ. 1"= 50'

C1.1

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY:	CRL
CHECK BY:	JSB
DATE:	02/01/24
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

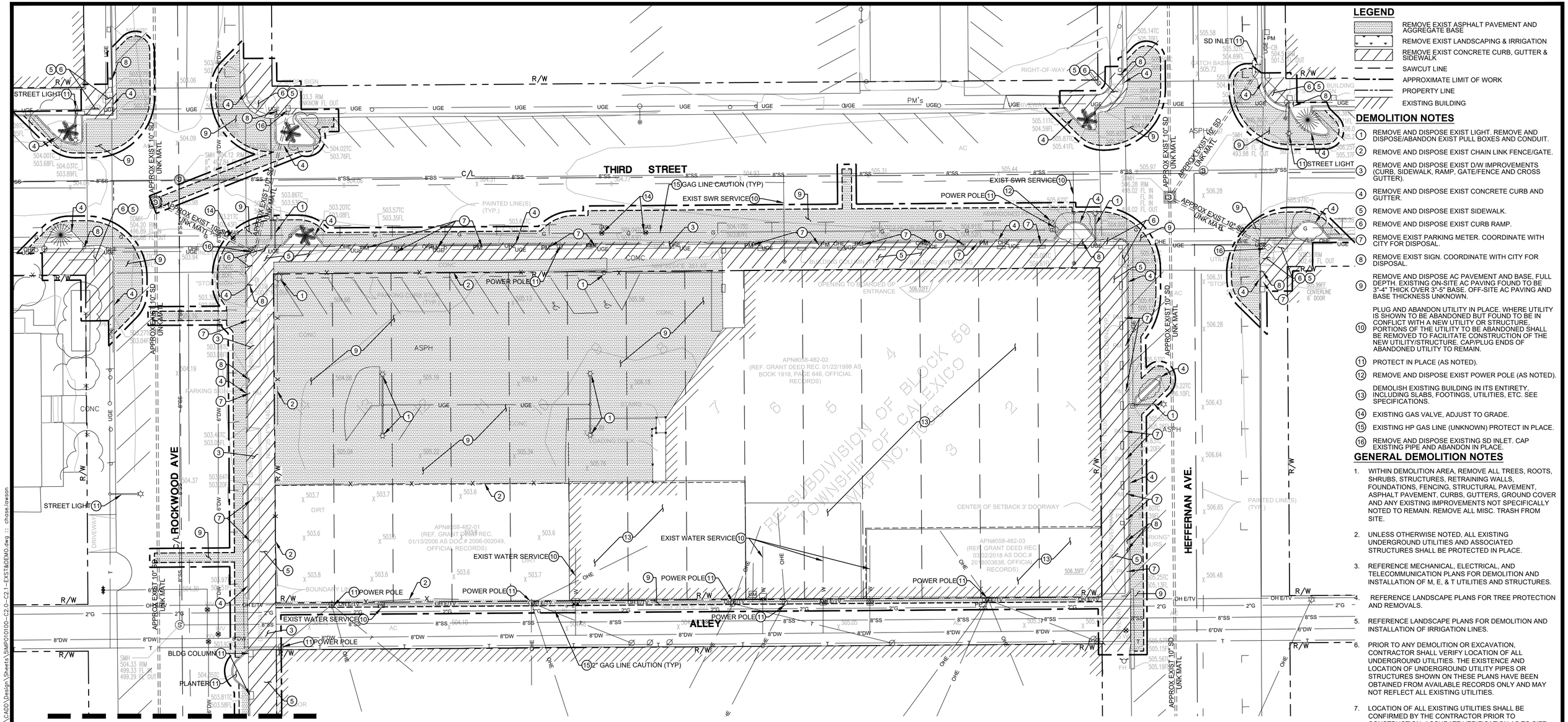
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
SITE PLAN, SHEET INDEX, ABBREVIATIONS & LEGEND

SHEET: 2 OF 145

BID DELIVERABLE

Plotted: 2/1/2024 2:11:43 PM :: Saved: 1/22/2024 3:52:36 PM :: S:\SWP010100\CADD\Design\Sheets\SWP010100-C1.0-C1.1-NOTES&LEGEND.dwg :: chase.lawson



LEGEND

- REMOVE EXIST ASPHALT PAVEMENT AND AGGREGATE BASE
- REMOVE EXIST LANDSCAPING & IRRIGATION
- REMOVE EXIST CONCRETE CURB, GUTTER & SIDEWALK
- SAWCUT LINE
- APPROXIMATE LIMIT OF WORK
- PROPERTY LINE
- EXISTING BUILDING

DEMOLITION NOTES

1. REMOVE AND DISPOSE EXIST LIGHT. REMOVE AND DISPOSE/ABANDON EXIST PULL BOXES AND CONDUIT.
2. REMOVE AND DISPOSE EXIST CHAIN LINK FENCE/GATE.
3. REMOVE AND DISPOSE EXIST D/W IMPROVEMENTS (CURB, SIDEWALK, RAMP, GATE/FENCE AND CROSS GUTTER).
4. REMOVE AND DISPOSE EXIST CONCRETE CURB AND GUTTER.
5. REMOVE AND DISPOSE EXIST SIDEWALK.
6. REMOVE AND DISPOSE EXIST CURB RAMP.
7. REMOVE EXIST PARKING METER. COORDINATE WITH CITY FOR DISPOSAL.
8. REMOVE EXIST SIGN. COORDINATE WITH CITY FOR DISPOSAL.
9. REMOVE AND DISPOSE AC PAVEMENT AND BASE, FULL DEPTH. EXISTING ON-SITE AC PAVING FOUND TO BE 3"-4" THICK OVER 3"-5" BASE. OFF-SITE AC PAVING AND BASE THICKNESS UNKNOWN.
10. PLUG AND ABANDON UTILITY IN PLACE. WHERE UTILITY IS SHOWN TO BE ABANDONED BUT FOUND TO BE IN CONFLICT WITH A NEW UTILITY OR STRUCTURE, PORTIONS OF THE UTILITY TO BE ABANDONED SHALL BE REMOVED TO FACILITATE CONSTRUCTION OF THE NEW UTILITY/STRUCTURE. CAP/PLUG ENDS OF ABANDONED UTILITY TO REMAIN.
11. PROTECT IN PLACE (AS NOTED).
12. REMOVE AND DISPOSE EXIST POWER POLE (AS NOTED).
13. DEMOLISH EXISTING BUILDING IN ITS ENTIRETY, INCLUDING SLABS, FOOTINGS, UTILITIES, ETC. SEE SPECIFICATIONS.
14. EXISTING GAS VALVE, ADJUST TO GRADE.
15. EXISTING HP GAS LINE (UNKNOWN) PROTECT IN PLACE.
16. REMOVE AND DISPOSE EXISTING SD INLET. CAP EXISTING PIPE AND ABANDON IN PLACE.

GENERAL DEMOLITION NOTES

1. WITHIN DEMOLITION AREA, REMOVE ALL TREES, ROOTS, SHRUBS, STRUCTURES, RETRAINING WALLS, FOUNDATIONS, FENCING, STRUCTURAL PAVEMENT, ASPHALT PAVEMENT, CURBS, GUTTERS, GROUND COVER AND ANY EXISTING IMPROVEMENTS NOT SPECIFICALLY NOTED TO REMAIN. REMOVE ALL MISC. TRASH FROM SITE.
2. UNLESS OTHERWISE NOTED, ALL EXISTING UNDERGROUND UTILITIES AND ASSOCIATED STRUCTURES SHALL BE PROTECTED IN PLACE.
3. REFERENCE MECHANICAL, ELECTRICAL, AND TELECOMMUNICATION PLANS FOR DEMOLITION AND INSTALLATION OF M, E, & T UTILITIES AND STRUCTURES.
4. REFERENCE LANDSCAPE PLANS FOR TREE PROTECTION AND REMOVALS.
5. REFERENCE LANDSCAPE PLANS FOR DEMOLITION AND INSTALLATION OF IRRIGATION LINES.
6. PRIOR TO ANY DEMOLITION OR EXCAVATION, CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM AVAILABLE RECORDS ONLY AND MAY NOT REFLECT ALL EXISTING UTILITIES.
7. LOCATION OF ALL EXISTING UTILITIES SHALL BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND SERVICES SHALL BE THE CONTRACTORS RESPONSIBILITY.
8. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN HEREON AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
9. THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY AGENCIES PRIOR TO STARTING HIS WORK WITH UTILITY REPRESENTATIVES. FOR LOCATION OF UNDERGROUND UTILITIES AND APPURTENANCES, CONTACT "UNDERGROUND SERVICE ALERT" AT 811.
10. SHOULD ANY EXISTING UTILITY NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OF SUCH UTILITY.

EASEMENT NOTES:

APN 058-482-003
PURPOSE: FOR IRRIGATION, WASTE OR DRAINAGE CANALS, OR OVERHEAD POWER LINES
RECORDING NO.: IN BOOK 737, PAGE 157, OFFICIAL RECORD
AFFECTS: THE EXACT LOCATION AND EXTENT OF SAID EASEMENT IS NOT DISCLOSED OF RECORD

0 10' 20' 40' 60'
SCALE: 1" = 20'

C2.0

NO.	BY:	REVISION COMMENTS

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JAMES S. BLISS, P.E. 02/01/24 DATE

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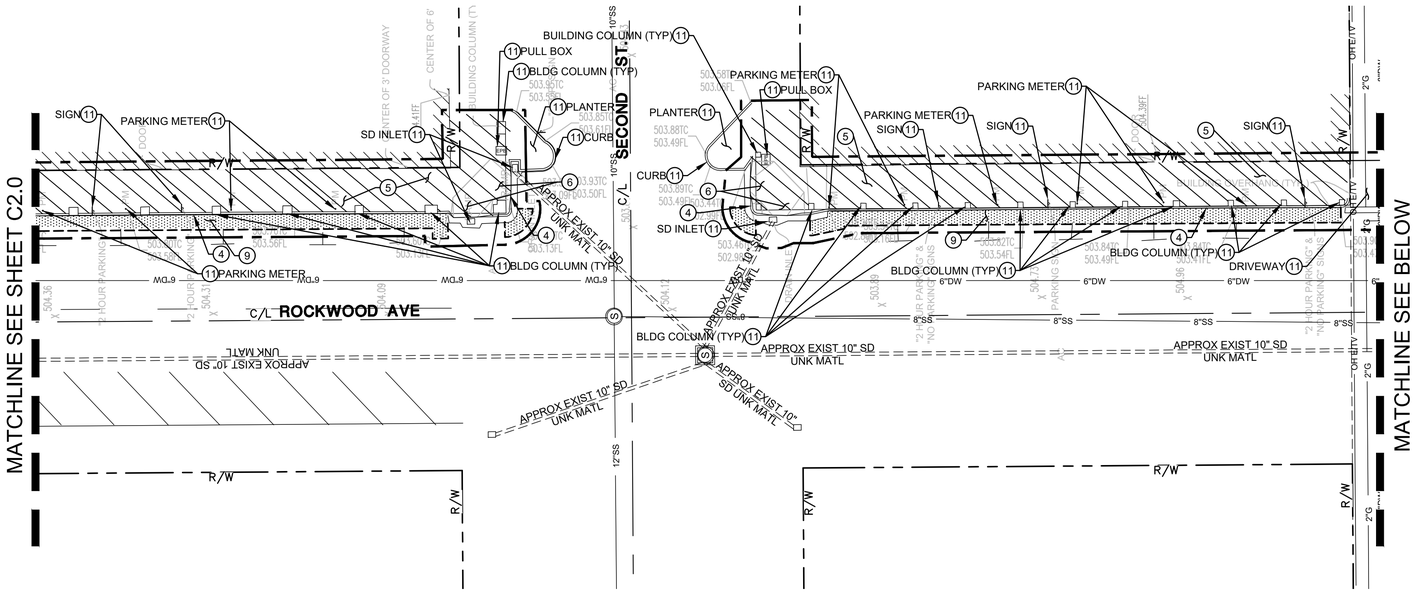
DRAWN BY:	CRL
CHECK BY:	JSB
DATE:	02/01/24
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

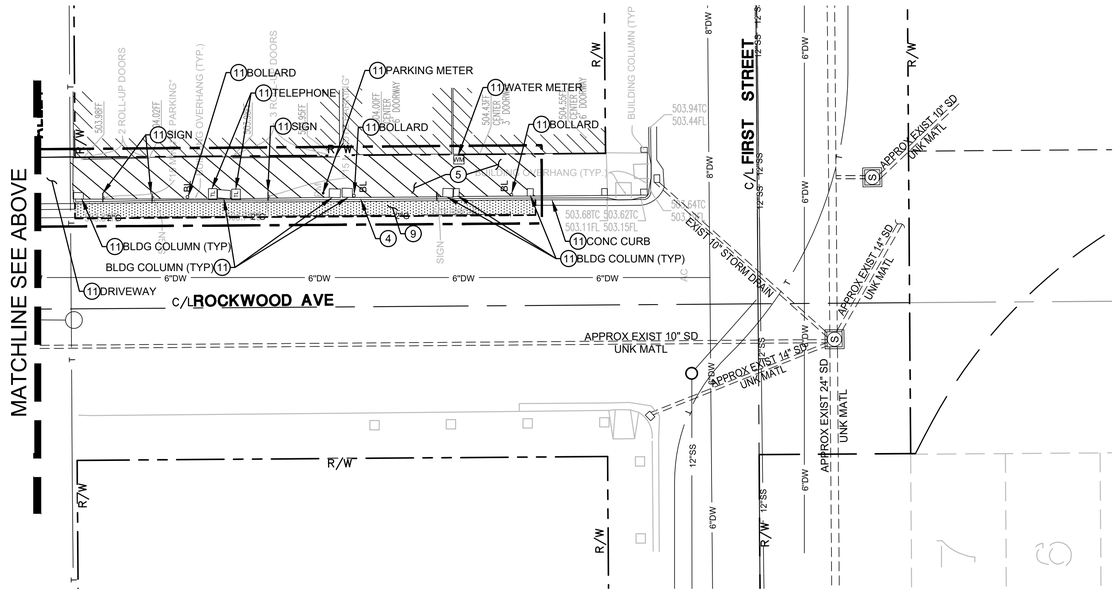
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: EXISTING & DEMOLITION PLAN

SHEET: 3 OF 145

BID DELIVERABLE





LEGEND

- REMOVE EXIST ASPHALT PAVEMENT AND AGGREGATE BASE
- REMOVE EXIST LANDSCAPING & IRRIGATION
- REMOVE EXIST CONCRETE CURB, GUTTER & SIDEWALK
- SAWCUT LINE
- APPROXIMATE LIMIT OF WORK
- PROPERTY LINE
- EXISTING BUILDING

DEMOLITION NOTES

1. REMOVE AND DISPOSE EXIST LIGHT. REMOVE AND DISPOSE/ABANDON EXIST PULL BOXES AND CONDUIT.
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7. REMOVE EXIST PARKING METER. COORDINATE WITH CITY FOR DISPOSAL.
8. REMOVE EXIST SIGN. COORDINATE WITH CITY FOR DISPOSAL.
9. REMOVE AND DISPOSE AC PAVEMENT AND BASE, FULL DEPTH. EXISTING ON-SITE AC PAVING FOUND TO BE 3"-4" THICK OVER 3"-5" BASE. OFF-SITE AC PAVING AND BASE THICKNESS UNKNOWN.
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14. EXISTING GAS VALVE, ADJUST TO GRADE.
15. EXISTING HP GAS LINE (UNKNOWN) PROTECT IN PLACE.
16. REMOVE AND DISPOSE EXISTING SD INLET. CAP EXISTING PIPE AND ABANDON IN PLACE.

GENERAL DEMOLITION NOTES

1. WITHIN DEMOLITION AREA, REMOVE ALL TREES, ROOTS, SHRUBS, STRUCTURES, RETRAINING WALLS, FOUNDATIONS, FENCING, STRUCTURAL PAVEMENT, ASPHALT PAVEMENT, CURBS, GUTTERS, GROUND COVER AND ANY EXISTING IMPROVEMENTS NOT SPECIFICALLY NOTED TO REMAIN. REMOVE ALL MISC. TRASH FROM SITE.
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10. SHOULD ANY EXISTING UTILITY NOT SHOWN HEREON BE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER PRIOR TO DEMOLITION OF SUCH UTILITY.

0 10' 20' 40' 60'
SCALE: 1" = 20'

C2.1

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JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER — JAMES S. BLISS — No. 41795 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

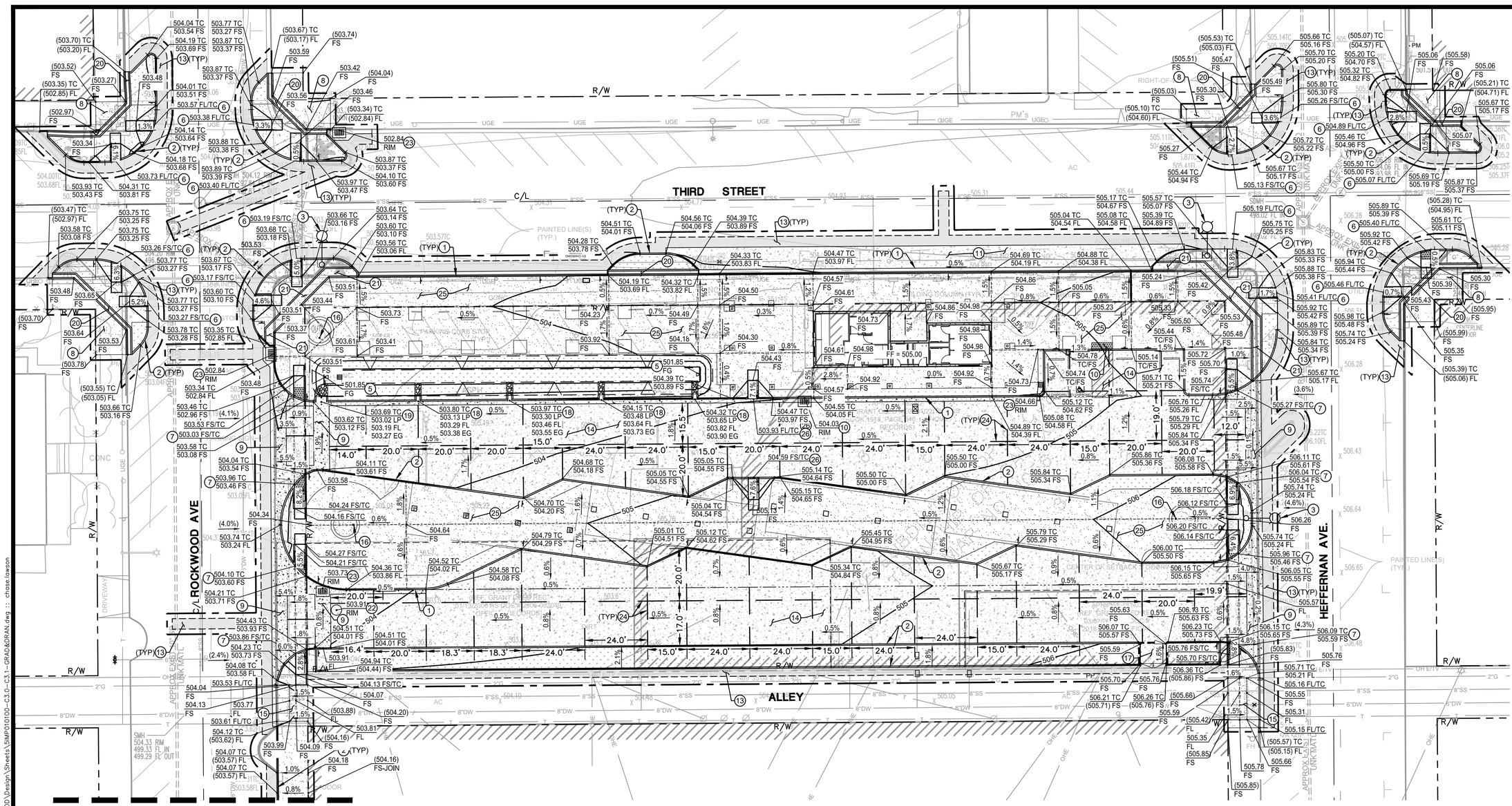
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
EXISTING & DEMOLITION PLAN

SHEET: 4 OF 145

BID DELIVERABLE

Plotted: 1/23/2024 12:03:01 PM :: Saved: 1/22/2024 4:36:29 PM :: S:\SMP01010\CADD\Design\Sheets\SMP01010-C2.0-C2.1-EXST&DEMO.dwg :: chase.lawson



LEGEND

- VEHICULAR CONCRETE PAVEMENT
- AC PAVEMENT
- LANDSCAPE PER LANDSCAPE PLANS
- CONCRETE SIDEWALK PAVEMENT
- CURB RAMP
- CONCRETE CROSS GUTTER/RIBBON GUTTER
- SIDEWALK UNDER-DRAIN
- CATCH BASIN
- CLEANOUT
- X% SLOPE ARROW
- 500 NEW CONTOUR
- x 505.50 NEW SPOT ELEVATION
- 500 EXISTING CONTOUR (PER AERIAL SURVEY, ACCURACY OF ± 0.5')
- 000.00 EXISTING ELEVATION (PER FIELD SURVEY, ACCURACY OF ± 0.1')
- 500.0 EXISTING SPOT ELEVATION (PER AERIAL SURVEY, ACCURACY OF ± 0.5')
- DAYLIGHT LINE
- SAWCUT LINE
- VEHICULAR PAVEMENT EXPANSION JOINT, SEE DETAIL 27, SHEET C6.8.
- RIDGE LINE
- GRADE BREAK
- CONCRETE CURB
- CONCRETE CURB AND GUTTER
- PROPERTY LINE
- APPROXIMATE LIMITS OF WORK

CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER CITY OF CALEXICO STD CURB DETAIL. SEE DETAIL 1, SHEET C6.0
2. CONSTRUCT 6" CURB PER SPPWC STD PLAN 120-2, TYPE A1-6. SEE DETAIL 13, SHEET C6.2.
3. STREET LIGHT PER ELECTRICAL PLANS.
4. GRATED INLET. SEE NOTE 10, SHEET C5.0.
5. CONSTRUCT BIO-RETENTION BASIN PER DETAIL 26, SHEET C6.8.
6. CONSTRUCT CASE C CURB RAMP PER SPPWC STD PLAN 111-5. SEE DETAIL 12, SHEET C6.1.
7. CONSTRUCT CASE D TYPE 1 CURB RAMP PER SPPWC STD PLAN 111-5. SEE DETAIL 12, SHEET C6.1.
8. PEDESTRIAN CONCRETE PAVEMENT PER DETAIL 23, SHEET C6.8. FINISH TO BE COORDINATED WITH CITY OF CALEXICO OFFICIALS PRIOR TO INSTALLATION.
9. CONSTRUCT PCC CROSS GUTTER PER CITY OF CALEXICO CROSS GUTTER LAYOUT. SEE DETAILS 2 AND 5, SHEET C6.0.
10. TRUNCATED DOMES PER DETAIL 12.1, SHEET C6.1.
11. CONSTRUCT BUS STOP PAD PER DETAIL 15, SHEET C6.2.
12. CONSTRUCT SIDEWALK UNDER-DRAIN PER DETAIL 28, SHEET C6.9. STANDARD CONCRETE FINISH TO MATCH ADJACENT SIDEWALK.
13. AC PAVEMENT PER DETAIL 25, SHEET C6.8.
14. VEHICULAR CONCRETE PAVEMENT PER DETAIL 22, SHEET C6.8.
15. CONSTRUCT COMMERCIAL DRIVEWAY PER CITY OF CALEXICO STD DRIVEWAY DETAIL. SEE DETAIL 7, SHEET C6.0.
16. CONSTRUCT PLANTER AREA DRAIN. SEE NOTE 13, SHEET C5.0.
17. CONSTRUCT DUMPSTER ENCLOSURE PER DETAIL 24, SHEET C6.8.
18. CURB CUT PER DETAIL 21, SHEET C6.8. 1.5' WIDTH.
19. CURB CUT PER DETAIL 21, SHEET C6.8. 4' WIDTH.
20. CONSTRUCT SIDEWALK UNDER-DRAIN PER DETAIL 28, SHEET C6.9. GRATED COVER.
21. CONSTRUCT SIDEWALK UNDER-DRAIN PER DETAIL 29, SHEET C6.9. COLORED CONCRETE FINISH TO MATCH ADJACENT DECORATIVE CONCRETE PER LANDSCAPE PLANS.
22. 48" PERKFILTER MANHOLE. SHEET NOTE 20, SHEET C5.0.
23. STORM INLET. SEE SHEET C5.0.
24. VEHICULAR PAVEMENT EXPANSION JOINT, SEE DETAIL 27, SHEET C6.8.
25. PEDESTRIAN CONCRETE PAVEMENT PER DETAIL 23, SHEET C6.8. SEE LANDSCAPE PLAN FOR FINISH.
26. CONSTRUCT CASE A TYPE 1 CURB RAMP PER SPPWC STD PLAN 111-5. SEE DETAIL 12, SHEET C6.1.

0 10' 20' 40' 60'
SCALE: 1" = 20'

GENERAL GRADING NOTES

1. CONTRACTOR SHALL PROTECT IN PLACE OR ADJUST WHERE NECESSARY ALL EXISTING UTILITY LINES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, THAT LAY WITHIN THE LIMITS OF THE NEW CONSTRUCTION, AND ARE NOT SPECIFICALLY MARKED TO BE REMOVED OR ABANDONED.
2. FINAL MANHOLE, VALVE BOXES AND VAULTS RIM ELEVATIONS SHALL BE ADJUSTED TO MEET FINAL GRADES.
3. CONTRACTOR TO VERIFY ALL EXISTING UTILITIES THAT ARE IN CONFLICT WITH THE PROJECT PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF RECORD OF ANY FOUND CONFLICTS.
4. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. JOIN ELEVATIONS SHOW APPROXIMATE. NEW CONCRETE AND A/C JOINS SHALL MATCH EXISTING ELEVATIONS.
6. SEE LANDSCAPE PLANS FOR HARDSCAPE, PLANTERS, TREE WELLS, SHELTERS, ETC.

C3.0

NO.	BY:	REVISION COMMENTS

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JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

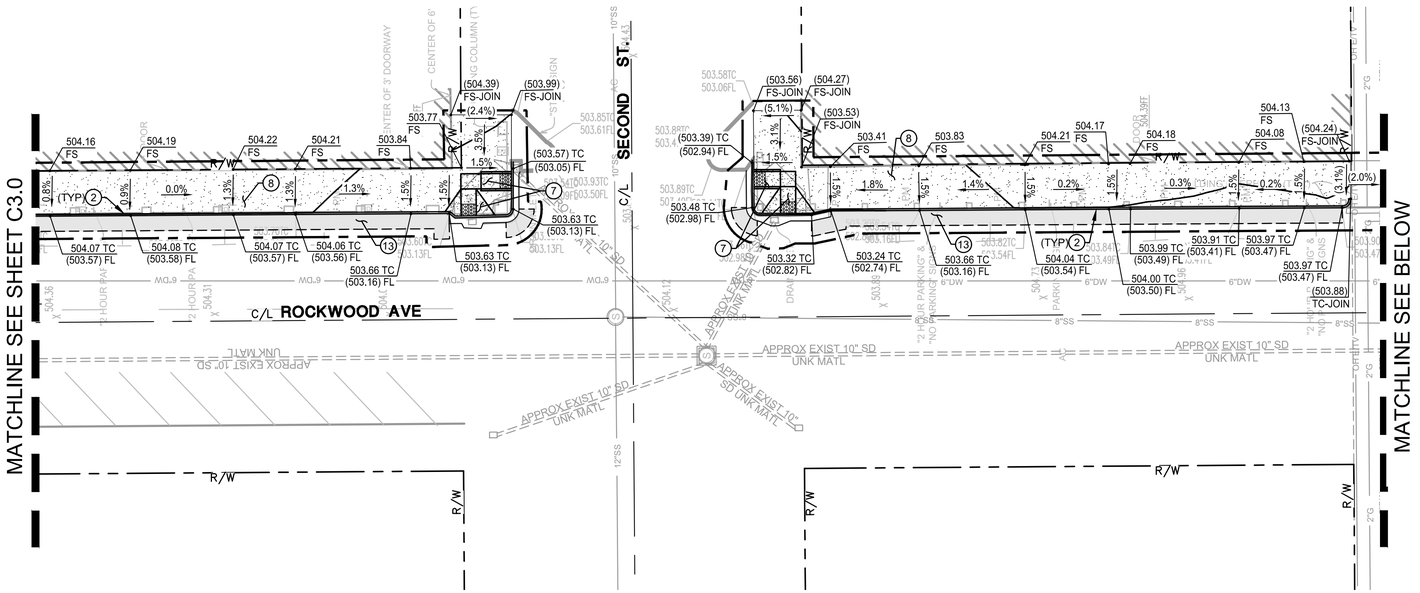
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

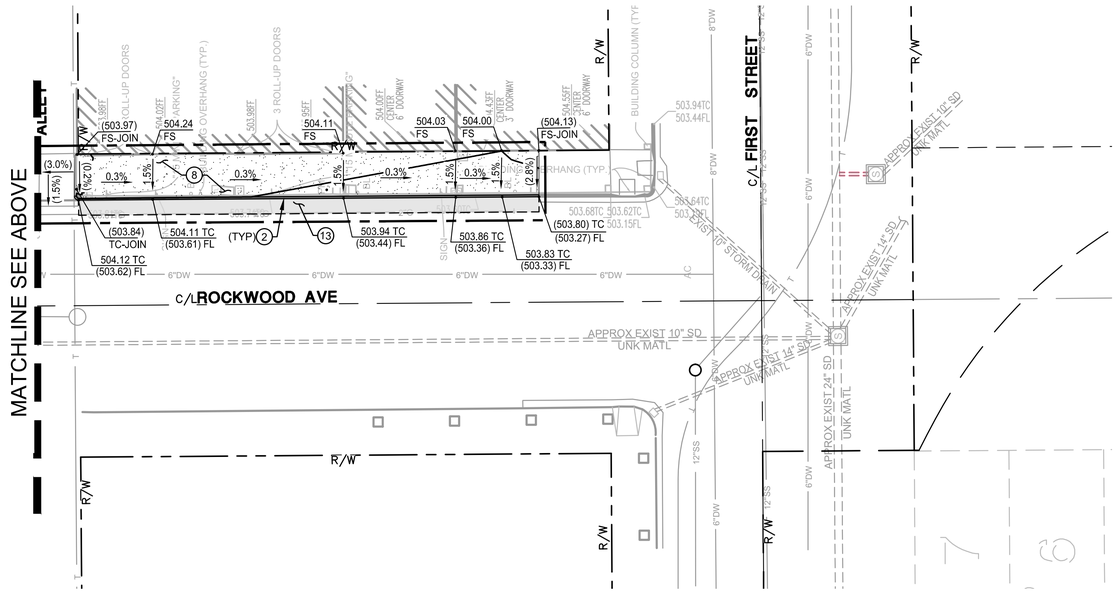
SHEET TITLE: GRADING & PAVING PLAN

SHEET: 5 OF 145

BID DELIVERABLE

Plotted – 2/1/2024 1:54:12 PM :: Saved – 2/1/2024 1:48:14 PM :: S:\SMP01010\CADD\Design\Sheets\SMP01010-C3.0-C3.1-GRADGDRAN.dwg :: chase.lawson





LEGEND

- VEHICULAR CONCRETE PAVEMENT
- AC PAVEMENT
- LANDSCAPE PER LANDSCAPE PLANS
- CONCRETE SIDEWALK PAVEMENT
- CURB RAMP
- CONCRETE CROSS GUTTER/RIBBON GUTTER
- SIDEWALK UNDER-DRAIN
- CATCH BASIN
- CLEANOUT
- X% SLOPE ARROW
- 500 NEW CONTOUR
- x 505.50 NEW SPOT ELEVATION
- 500 EXISTING CONTOUR (PER AERIAL SURVEY, ACCURACY OF ± 0.5')
- 000.00 EXISTING ELEVATION (PER FIELD SURVEY, ACCURACY OF ± 0.1')
- x 500.0 EXISTING SPOT ELEVATION (PER AERIAL SURVEY, ACCURACY OF ± 0.5')
- DAYLIGHT LINE
- SAWCUT LINE
- VEHICULAR PAVEMENT EXPANSION JOINT, SEE DETAIL 27, SHEET C6.8.
- RIDGE LINE
- GRADE BREAK
- CONCRETE CURB
- CONCRETE CURB AND GUTTER
- PROPERTY LINE
- APPROXIMATE LIMITS OF WORK

CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB AND GUTTER PER CITY OF CALEXICO STD CURB DETAIL. SEE DETAIL 1, SHEET C6.0
2. CONSTRUCT 6" CURB PER SPPWC STD PLAN 120-2, TYPE A1-6. SEE DETAIL 13, SHEET C6.2.
3. STREET LIGHT PER ELECTRICAL PLANS.
4. GRATED INLET. SEE NOTE 10, SHEET C5.0.
5. CONSTRUCT BIO-RETENTION BASIN PER DETAIL 26, SHEET C6.8.
6. CONSTRUCT CASE C CURB RAMP PER SPPWC STD PLAN 111-5. SEE DETAIL 12, SHEET C6.1.
7. CONSTRUCT CASE D TYPE 1 CURB RAMP PER SPPWC STD PLAN 111-5. SEE DETAIL 12, SHEET C6.1.
8. PEDESTRIAN CONCRETE PAVEMENT PER DETAIL 23, SHEET C6.8. FINISH TO BE COORDINATED WITH CITY OF CALEXICO OFFICIALS PRIOR TO INSTALLATION.
9. CONSTRUCT PCC CROSS GUTTER PER CITY OF CALEXICO CROSS GUTTER LAYOUT. SEE DETAILS 2 AND 5, SHEET C6.0.
10. TRUNCATED DOMES PER DETAIL 12.1, SHEET C6.1.
11. CONSTRUCT BUS STOP PAD PER DETAIL 15, SHEET C6.2.
12. CONSTRUCT SIDEWALK UNDER-DRAIN PER DETAIL 28, SHEET C6.9. STANDARD CONCRETE FINISH TO MATCH ADJACENT SIDEWALK.
13. AC PAVEMENT PER DETAIL 25, SHEET C6.8.
14. VEHICULAR CONCRETE PAVEMENT PER DETAIL 22, SHEET C6.8.
15. CONSTRUCT COMMERCIAL DRIVEWAY PER CITY OF CALEXICO STD DRIVEWAY DETAIL. SEE DETAIL 7, SHEET C6.0.
16. CONSTRUCT PLANTER AREA DRAIN. SEE NOTE 13, SHEET C5.0.
17. CONSTRUCT DUMPSTER ENCLOSURE PER DETAIL 24, SHEET C6.8.
18. CURB CUT PER DETAIL 21, SHEET C6.8. 1.5' WIDTH.
19. CURB CUT PER DETAIL 21, SHEET C6.8. 4' WIDTH.
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6. SEE LANDSCAPE PLANS FOR HARDSCAPE, PLANTERS, TREE WELLS, SHELTERS, ETC.

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C3.1

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DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
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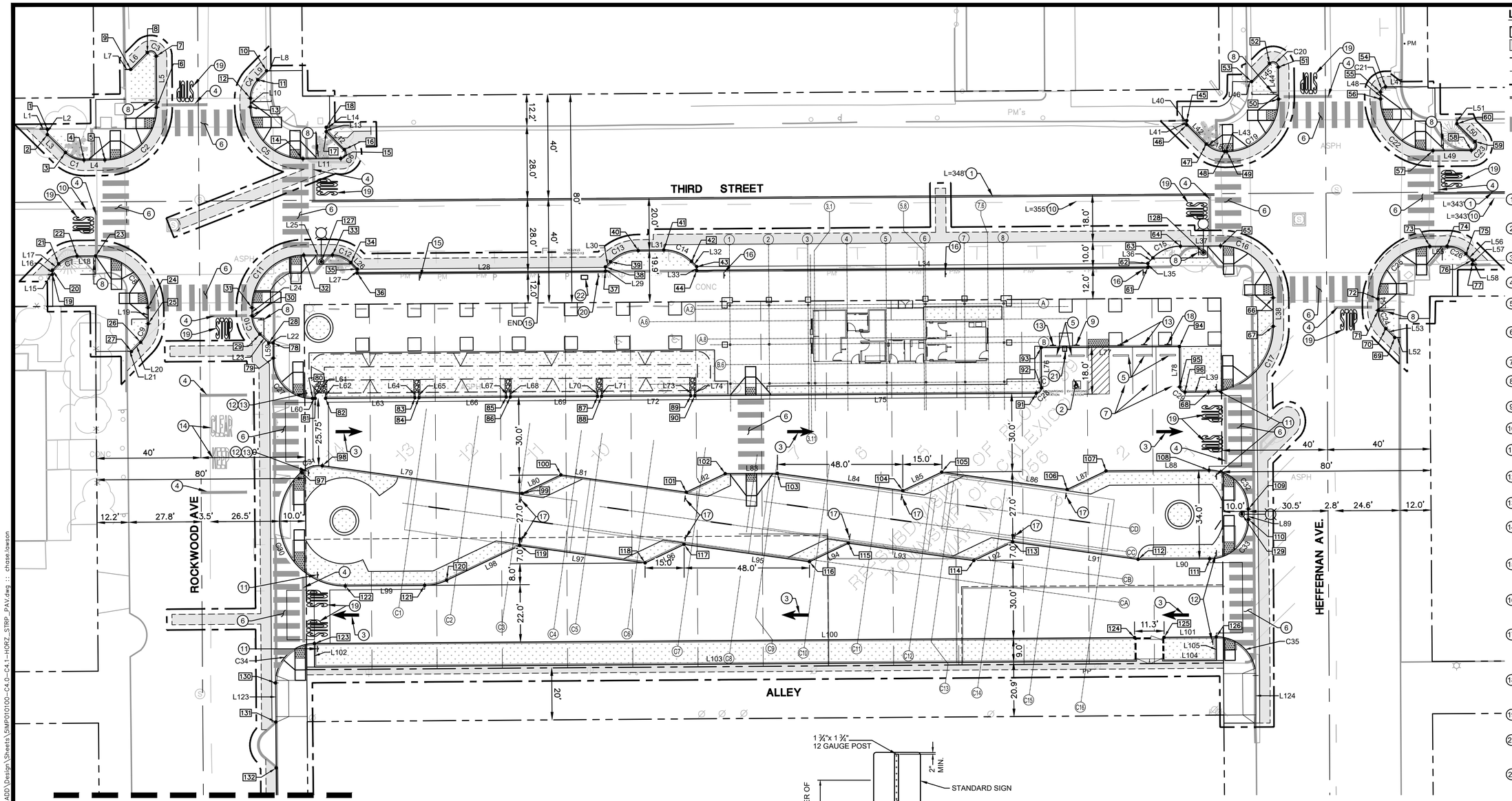
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: GRADING & PAVING PLAN

SHEET: 6 OF 145

BID DELIVERABLE

Plotted: 2/1/2024 1:47:54 PM :: Saved: 2/1/2024 1:34:24 PM :: S:\SMP01010\C4DD\Design\Sheets\SMP01010-C3.0-C3.1-GRADEPLAN.dwg :: chase.lawson



LEGEND

- LANDSCAPE PER LANDSCAPE PLANS
- AC PAVEMENT
- PROPERTY LINE
- SAWCUT LINE
- LIMITS OF WORK
- PAINTED STRIPE PER CONSTRUCTION NOTE
- SIGN PER CONSTRUCTION NOTE
- PEDESTRIAN CROSSWALK

CONSTRUCTION NOTES

1. PAINT 6" YELLOW STRIPE PER 2018 CALTRANS STD PLAN A20A, DETAIL 21. SEE DETAIL 16, SHEET C6.3.
2. INSTALL SINGLE ACCESSIBLE PARKING STALL PER CALTRANS STANDARD PLAN A90A. SEE DETAIL 20, SHEET C6.7.
3. PAINT TYPE I 10' ARROW PER CALTRANS STD PLAN A24A. SEE DETAIL 17, SHEET C6.4.
4. PAINT 12" WHITE LIMIT LINE (STOP LINE) PER CALTRANS STD PLAN A24E. SEE DETAIL 18, SHEET C6.5.
5. INSTALL 6' WHEEL STOPS. SEE DETAIL 33, SHEET C6.9.
6. REMOVE EXISTING CROSSWALK STRIPING BY SANDBLASTING. PAINT 10' WIDE CONTINENTAL WHITE CROSSWALK CENTER ON RAMPS PER CALTRANS STD PLAN A24F. SEE DETAIL 19, SHEET C6.6.
7. PAINT 4" WHITE PARKING STALL STRIPE.
8. FURNISH AND INSTALL STOP SIGN AND POST PER CALTRANS MUTCD R1-1. SEE SIGN POST DETAIL BELOW.
9. INSTALL ACCESSIBLE PARKING SIGNAGE PER CALTRANS STANDARD PLAN A90A. SEE DETAIL 20, SHEET C6.7.
10. REMOVE EXISTING CENTER LINE STRIPE BY SANDBLASTING.
11. FURNISH AND INSTALL "DO NOT ENTER" SIGN PER CALTRANS MUTCD R5-1. SEE SIGN POST DETAIL BELOW.
12. FURNISH AND INSTALL "BUS ONLY" SIGN PER DETAIL BELOW. SEE SIGN POST DETAIL BELOW.
13. CONTRACTOR TO INSTALL "IVT VEHICLES ONLY" SIGN PER DETAIL BELOW. SEE SIGN POST DETAIL BELOW.
14. PAINT WHITE "KEEP CLEAR" PAVEMNT MAKING PER CALTRANS STANDARD PLAN A24E. SEE DETAIL 18, SHEET C6.5.
15. LOADING ZONE ONLY SIGNAGE. OWNER TO FURNISH, CONTRACTOR TO INSTALL. SEE SIGN POST DETAIL BELOW.
16. NO PARKING, FARM/LABORER INDUSTRIAL LOADING ONLY SIGNAGE. OWNER TO FURNISH, CONTRACTOR TO INSTALL. SEE SIGN POST DETAIL BELOW.
17. OWNER TO FURNISH, CONTRACTOR TO INSTALL BUS STOP SIGN PER 2014 ICTC BUS STOP DESIGN AND SAFETY GUIDELINE HANDBOOK, FIGURES 8 AND 9. SEE SIGN POST DETAIL BELOW.
18. CONTRACTOR TO INSTALL "POLICE AND SECURITY VEHICLES ONLY" SIGNAGE. SEE SIGN POST DETAIL BELOW.
19. PAINT WHITE "STOP" PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24E. SEE DETAIL 18, C6.5
20. CONTRACTOR TO INSTALL ELECTRIC VEHICLE PARKING ONLY SIGN PER MUTCD R13A(CA). SEE SIGNAGE POST DETAIL BELOW.
21. CONTRACTOR TO INSTALL CHARGEPOINT CT4000 LEVEL 2 COMMERCIAL CHARGING STATION. SEE ELECTRICAL PLAN.
22. CONTRACTOR TO INSTALL CHARGEPOINT EXPRESS 200 DC COMMERCIAL CHARGING STATION. SEE ELECTRICAL PLAN. FINAL PLACEMENT TO BE APPROVED BY CITY ENGINEER PRIOR TO INSTALLATION.

SIGNING AND STRIPING NOTES

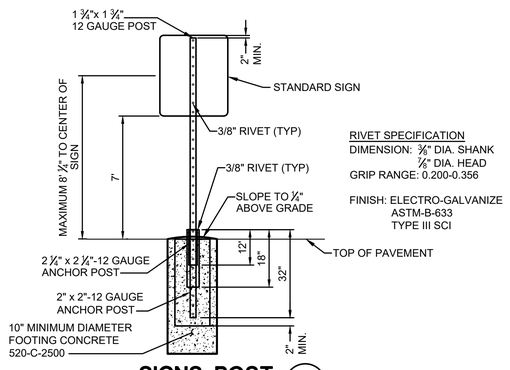
1. ALL STRIPING, MARKINGS AND LEGENDS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED.

BUS ONLY
R3-10 (MODIFIED) PER MUTCD 2B-7 (24"X30")

IVT VEHICLES ONLY
R3-10 (MODIFIED) PER MUTCD 2B-7 (24"X30")

POLICE AND SECURITY VEHICLES ONLY
R3-10 (MODIFIED) PER MUTCD 2B-7 (24"X30")

SPECIAL SIGNS (1 / C4.0)
N.T.S.



RIVET SPECIFICATION
DIMENSION: ⅜" DIA. SHANK
⅛" DIA. HEAD
GRIP RANGE: 0.200-0.356

FINISH: ELECTRO-GALVANIZE
ASTM-B-633
TYPE III SCI

SIGNS POST (2 / C4.0)
N.T.S.

0 10' 20' 40' 60'
SCALE: 1" = 20'

C4.0

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

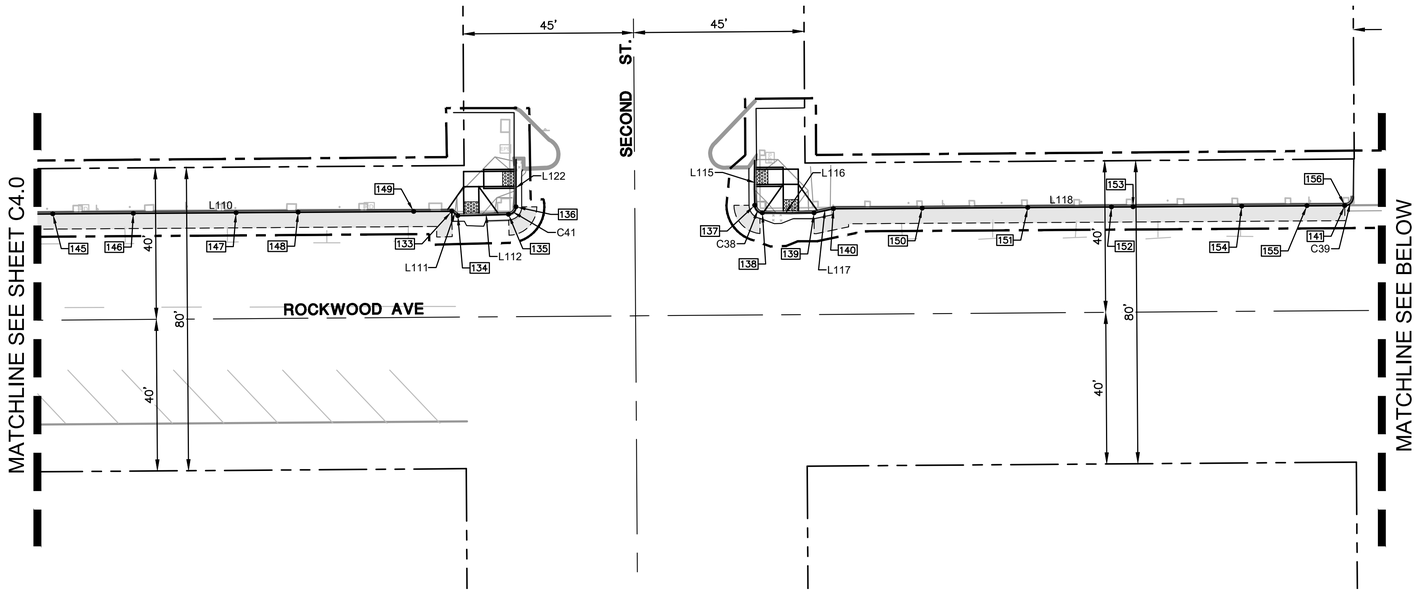
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

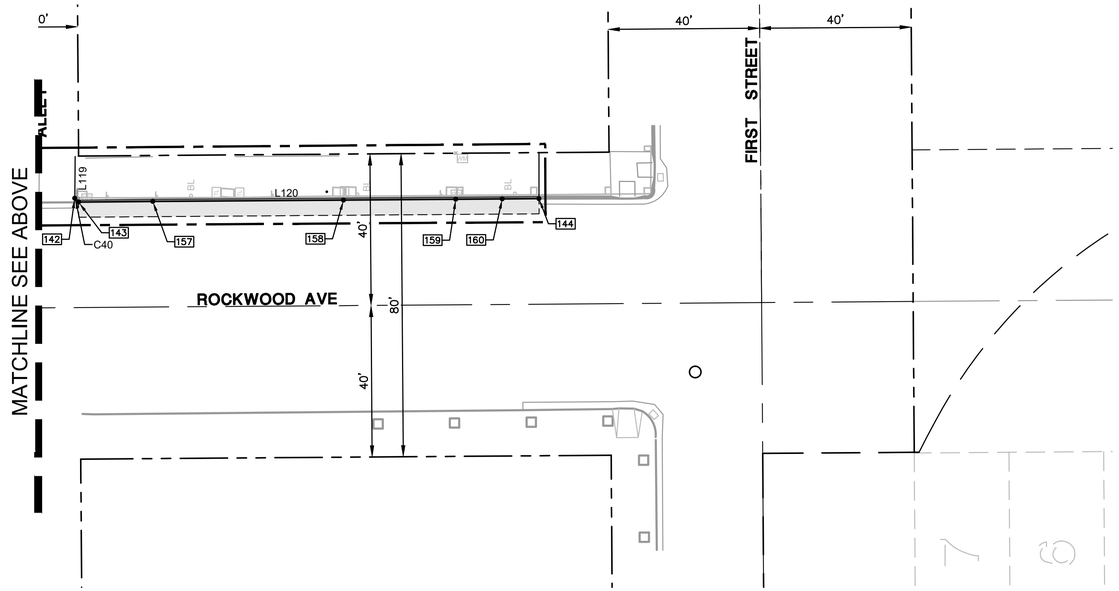
SHEET TITLE:
HORIZONTAL CONTROL AND STRIPING PLAN

SHEET: 7 OF 145

BID DELIVERABLE

Plotted – 2/1/2024 1:55:00 PM :: Saved – 1/26/2024 4:03:39 PM :: S:\SMP010100\CADD\Design\Sheets\SMP010100-C4.0-C4.1-HORZ_STRP_PAV.dwg :: chasel.lawson





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0 10' 20' 40' 60'

SCALE: 1" = 20'

C4.1

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
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JAMES S. BLISS, P.E. 02/01/24 DATE

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CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HORIZONTAL CONTROL AND STRIPING PLAN

SHEET: 8 OF 145

BID DELIVERABLE

Plotted – 2/1/2024 1:55:42 PM :: Saved – 1/26/2024 4:03:39 PM :: S:\SMP010100\CADD\Design\Sheets\SMP010100-C4.0-C4.1-HORZ_STRP_PAV.dwg :: chase.lawson

CURB LINE DATA TABLE

Line #	Length	Direction	Remark
L1	2.87'	S89° 00' 35.50"W	6" CURB
L2	2.16'	N00° 26' 28.35"W	6" CURB
L3	9.76'	N45° 24' 55.60"W	6" CURB
L4	8.00'	S89° 35' 04.40"W	6" CURB
L5	19.63'	S00° 25' 14.25"E	6" CURB
L6	9.07'	N44° 34' 45.75"E	6" CURB
L7	2.17'	N89° 34' 45.75"E	6" CURB
L8	1.68'	N89° 34' 45.75"E	6" CURB
L9	4.81'	N44° 34' 45.75"E	6" CURB
L10	3.38'	N00° 25' 14.25"W	6" CURB
L11	14.53'	S89° 35' 04.40"W	6" CURB
L12	9.78'	S45° 24' 55.60"E	6" CURB
L13	1.67'	S00° 24' 55.60"E	6" CURB
L14	1.33'	S89° 35' 04.40"W	6" CURB
L15	1.67'	S89° 35' 04.40"W	6" CURB
L16	1.67'	S00° 24' 55.60"E	6" CURB
L17	3.40'	S44° 35' 04.40"W	6" CURB
L18	7.10'	S89° 35' 04.40"W	6" CURB
L19	6.16'	N00° 25' 14.25"W	6" CURB
L20	4.81'	N44° 34' 45.75"E	6" CURB
L21	1.67'	N89° 34' 45.75"E	6" CURB
L22	1.67'	S89° 35' 04.40"W	6" CURB
L23	4.81'	N45° 25' 14.25"W	6" CURB
L24	3.11'	N00° 24' 55.60"W	6" CURB
L25	11.00'	N89° 35' 04.40"E	6" CURB
L26	3.40'	S45° 24' 55.60"E	6" CURB
L27	1.67'	S00° 16' 08.30"E	6" CURB
L28	95.14'	N89° 35' 04.40"E	6" CURB & GUTTER (2)
L29	1.67'	N00° 24' 55.60"W	6" CURB
L30	2.74'	N44° 35' 31.16"E	6" CURB
L31	9.90'	N89° 35' 04.40"E	6" CURB
L32	2.74'	S45° 24' 28.84"E	6" CURB
L33	1.67'	S00° 24' 52.51"E	6" CURB
L34	172.97'	N89° 35' 06.12"E	6" CURB & GUTTER (2)
L35	1.67'	N00° 24' 53.36"W	6" CURB
L36	2.74'	N44° 35' 31.16"E	6" CURB
L37	15.38'	N89° 35' 04.40"E	6" CURB
L38	10.97'	S00° 21' 54.36"E	6" CURB
L39	9.03'	S89° 35' 08.73"W	6" CURB
L40	1.67'	N89° 35' 04.40"E	6" CURB
L41	1.67'	S00° 24' 55.60"E	6" CURB
L42	10.47'	S45° 24' 55.60"E	6" CURB
L43	0.80'	N89° 35' 04.40"E	6" CURB
L44	12.25'	N00° 25' 14.25"W	6" CURB
L45	9.78'	S44° 34' 45.75"W	6" CURB
L46	1.67'	S89° 34' 32.89"W	6" CURB
L47	6.00'	N89° 34' 45.75"E	6" CURB
L48	2.62'	N00° 25' 14.25"W	6" CURB
L49	14.73'	S89° 35' 04.40"W	6" CURB
L50	9.71'	S45° 24' 55.60"E	6" CURB
L51	1.67'	S00° 25' 14.25"E	6" CURB
L52	2.16'	N89° 08' 56.23"E	6" CURB
L53	4.81'	S45° 25' 14.25"E	6" CURB
L54	4.40'	S00° 25' 14.25"E	6" CURB
L55	6.79'	S89° 35' 04.40"W	6" CURB
L56	3.39'	N45° 24' 55.60"W	6" CURB
L57	1.67'	N00° 22' 02.32"W	6" CURB
L58	1.67'	S89° 37' 57.68"W	6" CURB
L59	5.81'	N00° 24' 55.60"W	6" CURB & GUTTER
L60	1.00'	S89° 35' 04.36"W	6" CURB

CURB LINE DATA TABLE

Line #	Length	Direction	Remark
L61	2.00'	S00° 24' 55.66"E	VAR. HT. CURB
L62	2.00'	N00° 24' 55.66"W	VAR. HT. CURB
L63	34.25'	S89° 35' 04.38"W	6" CURB & GUTTER (1)
L64	2.00'	S00° 24' 55.66"E	VAR. HT. CURB
L65	2.00'	N00° 24' 55.66"W	VAR. HT. CURB
L66	33.50'	S89° 35' 04.38"W	6" CURB & GUTTER (1)
L67	2.00'	S00° 24' 55.66"E	VAR. HT. CURB
L68	2.00'	N00° 24' 55.66"W	VAR. HT. CURB
L69	33.50'	S89° 35' 04.36"W	6" CURB & GUTTER (1)
L70	2.00'	S00° 24' 55.66"E	VAR. HT. CURB
L71	2.00'	N00° 24' 55.66"W	VAR. HT. CURB
L72	34.25'	S89° 35' 04.40"W	6" CURB & GUTTER (1)
L73	2.00'	S00° 24' 55.66"E	VAR. HT. CURB
L74	2.00'	N00° 24' 55.66"W	VAR. HT. CURB
L75	130.95'	S89° 35' 05.79"W	6" CURB & GUTTER (1)
L76	15.50'	S00° 24' 55.58"E	6" CURB
L77	53.00'	S89° 35' 04.42"W	0" CURB
L78	15.50'	N00° 24' 55.81"W	6" CURB
L79	77.26'	S82° 07' 05.88"E	6" CURB (1)
L80	16.55'	N64° 34' 03.58"E	6" CURB (1)
L81	48.51'	S82° 07' 05.88"E	6" CURB (1)
L82	16.55'	N64° 34' 03.58"E	6" CURB (1)
L83	20.00'	N89° 35' 04.40"E	6" CURB
L84	48.51'	S82° 07' 05.88"E	6" CURB (1)
L85	16.55'	N64° 34' 03.58"E	6" CURB (1)
L86	48.51'	S82° 07' 05.88"E	6" CURB (1)
L87	16.55'	N64° 34' 03.58"E	6" CURB (1)
L88	39.48'	N89° 35' 04.40"E	6" CURB (1)
L89	4.00'	S00° 25' 14.25"E	6" CURB (1)
L90	27.45'	S89° 35' 04.40"W	6" CURB (1)
L91	48.51'	N82° 07' 05.88"W	6" CURB (1)
L92	16.55'	S64° 34' 03.58"W	6" CURB (1)
L93	48.51'	N82° 07' 05.88"W	6" CURB (1)
L94	16.55'	S64° 34' 03.58"W	6" CURB (1)
L95	48.51'	N82° 07' 05.88"W	6" CURB (1)
L96	16.55'	S64° 34' 03.58"W	6" CURB (1)
L97	48.51'	N82° 07' 05.88"W	6" CURB (1)
L98	31.03'	S64° 34' 03.58"W	6" CURB (1)
L99	30.42'	S89° 35' 04.40"W	6" CURB & GUTTER (1)
L100	314.43'	N89° 35' 04.40"E	6" CURB (1)
L101	20.00'	N89° 35' 04.40"E	6" CURB (1)
L102	9.00'	S00° 24' 55.60"E	VAR. HT. CURB
L103	315.10'	N89° 35' 04.40"E	6" CURB (1)
L104	20.67'	N89° 35' 27.76"E	6" CURB (1)
L105	9.00'	N00° 24' 55.60"W	VAR. HT. CURB
L110	119.00'	S00° 23' 16.89"E	6" CURB
L111	1.97'	S36° 36' 17.46"W	6" CURB
L112	13.39'	S01° 22' 48.52"E	6" CURB & GUTTER
L115	11.82'	S89° 46' 10.86"W	6" CURB & GUTTER
L116	13.66'	S00° 00' 00.00"E	6" CURB & GUTTER
L117	5.21'	S11° 53' 36.34"E	6" CURB & GUTTER
L118	134.97'	S00° 21' 36.67"E	6" CURB & GUTTER
L119	10.87'	N89° 26' 45.88"W	6" CURB & GUTTER
L120	121.53'	S00° 25' 23.63"E	6" CURB
L123	14.99'	S00° 30' 08.21"E	6" CURB
L124	18.24'	S00° 00' 24.06"W	6" CURB

(1) = PAINT TOP & FACE OF CURB RED FOR NO PARKING.
(2) = PAINT TOP & FACE OF CURB WHITE FOR PASSENGER DROP-OFF

CURB CURVE DATA TABLE

Curve #	Length	Radius	Delta	Remark
C1	7.85'	10.00'	045° 00' 00"	6" CURB
C2	31.42'	20.00'	090° 00' 19"	6" CURB
C3	4.71'	2.00'	135° 00' 00"	6" CURB
C4	7.85'	10.00'	045° 00' 00"	6" CURB
C5	31.41'	20.00'	089° 59' 41"	6" CURB
C6	4.71'	2.00'	135° 00' 00"	6" CURB
C7	7.85'	10.00'	045° 00' 00"	6" CURB
C8	31.41'	20.00'	089° 59' 41"	6" CURB
C9	7.85'	10.00'	045° 00' 00"	6" CURB
C10	7.85'	10.00'	045° 00' 00"	6" CURB
C11	31.42'	20.00'	090° 00' 00"	6" CURB
C12	7.85'	10.00'	045° 00' 00"	6" CURB & GUTTER
C13	11.78'	15.00'	044° 59' 33"	6" CURB
C14	11.78'	15.00'	045° 00' 27"	6" CURB
C15	11.78'	15.00'	044° 59' 33"	6" CURB
C16	31.43'	20.00'	090° 03' 01"	6" CURB
C17	39.25'	25.00'	089° 56' 48"	6" CURB
C18	7.85'	10.00'	045° 00' 00"	6" CURB
C19	31.42'	20.00'	090° 00' 19"	6" CURB
C20	4.71'	2.00'	135° 00' 00"	6" CURB
C21	3.14'	2.00'	090° 00' 00"	6" CURB
C22	31.41'	20.00'	089° 59' 41"	6" CURB
C23	4.71'	2.00'	135° 00' 00"	6" CURB
C24	7.85'	10.00'	045° 00' 00"	6" CURB
C25	31.42'	20.00'	090° 00' 19"	6" CURB
C26	7.85'	10.00'	045° 00' 00"	6" CURB
C27	24.14'	15.00'	092° 12' 50"	6" CURB
C28	3.14'	2.00'	089° 56' 07"	6" CURB
C29	3.14'	2.00'	089° 59' 55"	6" CURB
C30	60.48'	25.00'	138° 36' 33"	6" CURB
C31	8.67'	10.00'	049° 41' 17"	6" CURB
C32	23.56'	15.00'	089° 59' 41"	6" CURB
C33	23.56'	15.00'	090° 00' 19"	6" CURB
C34	23.56'	15.00'	090° 00' 19"	6" CURB & GUTTER
C35	23.56'	15.00'	090° 00' 00"	6" CURB & GUTTER
C38	3.13'	2.00'	089° 46' 11"	6" CURB & GUTTER
C39	3.82'	2.09'	104° 48' 07"	6" CURB & GUTTER
C40	1.74'	1.02'	098° 05' 28"	6" CURB
C41	3.09'	2.00'	088° 37' 11"	6" CURB & GUTTER

(1) = PAINT TOP & FACE OF CURB RED FOR NO PARKING.
(2) = PAINT TOP & FACE OF CURB WHITE FOR PASSENGER DROP-OFF

HORIZ. CONTROL CURB DATA

Point #	Northing	Easting	Remark
1	1823599.3775	6793569.7840	CURB
2	1823597.2210	6793569.8006	CURB
3	1823590.3702	6793576.7515	CURB
4	1823587.4926	6793583.8436	CURB
5	1823587.5506	6793591.8434	CURB
6	1823607.6969	6793611.6979	CURB
7	1823627.3309	6793611.5537	CURB
8	1823628.7200	6793608.1292	CURB
9	1823622.2573	6793601.7607	CURB
10	1823621.7214	6793653.8540	CURB
11	1823618.2954	6793650.4779	CURB
12	1823611.2030	6793647.6010	CURB
13	1823607.8219	6793647.6258	CURB
14	1823587.9692	6793667.7703	CURB
15	1823588.0746	6793682.2965	CURB
16	1823591.4989	6793683.6859	CURB
17	1823598.3644	6793676.7201	CURB
18	1823600.0344	6793676.7080	CURB
19	1823543.5977	6793571.7549	CURB
20	1823545.2677	6793571.7427	CURB
21	1823547.6861	6793574.1263	CURB
22	1823550.6662	6793581.1760	CURB
23	1823550.7177	6793588.2714	CURB
24	1823530.8650	6793608.4159	CURB
25	1823524.7048	6793608.4611	CURB
26	1823517.6124	6793605.5842	CURB
27	1823514.0452	6793602.0661	CURB
28	1823517.3173	6793654.6713	CURB
29	1823520.6938	6793651.2449	CURB
30	1823527.7432	6793648.2641	CURB
31	1823530.8525	6793648.2416	CURB
32	1823550.9970	6793668.0960	CURB
33	1823551.0767	6793679.0986	CURB
34	1823548.1992	6793686.1907	CURB
35	1823545.6611	6793688.6066	CURB
36	1823544.1456	6793688.6169	CURB
37	1823544.8354	6793783.7568	CURB
38	1823546.5054	6793783.7447	CURB
39	1823548.4574	6793785.6691	CURB
40	1823552.7790	6793796.3576	CURB
41	1823552.9980	6793806.1453	CURB
42	1823548.6803	6793816.7849	CURB
43	1823546.5891	6793818.7348	CURB
44	1823545.0891	6793818.7457	CURB
45	1823602.6227	6794006.6215	CURB
46	1823600.9527	6794006.6336	CURB
47	1823593.6055	6794014.0881	CURB
48	1823590.7279	6794021.1802	CURB
49	1823590.7338	6794021.9849	CURB
50	1823610.8801	6794041.8394	CURB
51	1823623.1322	6794041.7494	CURB
52	1823624.5213	6794038.3249	CURB
53	1823617.5548	6794031.4599	CURB
54	1823615.5582	6794082.8275	CURB
55	1823613.5436	6794080.8422	CURB
56	1823610.9274	6794080.8614	CURB
57	1823591.0748	6794101.0059	CURB
58	1823591.1816	6794115.7329	CURB
59	1823594.6060	6794117.1223	CURB
60	1823601.4209	6794110.2078	CURB
61	1823546.3418	6793991.7073	CURB
62	1823547.8433	6793991.6964	CURB
63	1823549.9652	6793993.6210	CURB
64	1823554.4340	6794004.1941	CURB
65	1823554.5455	6794019.5695	CURB
66	1823534.6735	6794039.7141	CURB
67	1823523.7023	6794039.7840	CURB
68	1823498.5449	6794014.9658	CURB
69	1823519.4145	6794086.3723	CURB
70	1823522.7905	6794082.9463	CURB
71	1823529.8398	6794079.9656	CURB
72	1823534.2358	6794079.9333	CURB
73	1823554.3821	6794099.7877	CURB
74	1823554.4612	6794106.4424	CURB
75	1823551.5538	6794113.6746	CURB
76	1823549.1728	6794116.0903	CURB

HORIZ. CONTROL CURB DATA

Point #	Northing	Easting	Remark
77	1823547.5016	6794116.1011	CURB
78	1823517.3294	6793656.3413	CURB
79	1823511.5181	6793656.3834	CURB
80	1823496.0544	6793671.4916	CURB
81	1823496.0616	6793672.4917	CURB
82	1823496.0906	6793676.4916	CURB
83	1823496.3390	6793710.7407	CURB
84	1823496.3499	6793712.2407	CURB
85	1823496.5928	6793745.7398	CURB
86	1823496.6037	6793747.2397	CURB
87	1823496.8466	6793780.7389	CURB
88	1823496.8574	6793782.2388	CURB
89	1823497.1058	6793816.4879	CURB
90	1823497.1167	6793817.9879	CURB
91	1823498.0653	6793948.9368	CURB
92	1823500.0807	6793950.9223	CURB
93	1823515.5803	6793950.8099	CURB
94	1823515.9646	6794003.8085	CURB
95	1823500.4651	6794003.9209	CURB
96	1823498.4796	6794005.9353	CURB
97	1823467.7778	6793667.1767	CURB
98	1823470.2293	6793675.2141	CURB
99	1823459.6353	6793751.7403	CURB
100	1823466.7439	6793766.6891	CURB
101	1823460.0921	6793814.7386	CURB
102	1823467.2007	6793829.6875	CURB
103	1823467.3457	6793849.6870	CURB
104	1823460.6939	6793897.7365	CURB
105	1823467.8025	6793912.6853	CURB
106	1823461.1507	6793960.7348	CURB
107	1823468.2593	6793975.6837	CURB
108	1823468.5455	6794015.1599	CURB
109	1823453.6561	6794030.2683	CURB
110	1823449.6562	6794030.2976	CURB
111	1823434.5464	6794015.4068	CURB
112	1823434.3474	6793987.9605	CURB
113	1823440.9992	6793939.9110	CURB
114	1823433.8906	6793924.9622	CURB
115	1823440.5424	6793876.9127	CURB
116	1823433.4338	6793861.9638	CURB
117	1823440.0856	6793813.9143	CURB
118	1823432.9770	6793798.9655	CURB
119	1823439.6288	6793750.9160	CURB
120	1823426.3016	6793722.8898	CURB
121	1823424.3640	6793714.4459	CURB
122	1823424.1434	6793684.0234	CURB
123	1823402.0570	6793672.1888	CURB
124	1823404.3369	6793986.6140	CURB
125	1823404.4191	6793997.9488	CURB
126	1823404.5641	6794017.9483	CURB
130	1823386.9472	6793657.2980	CURB
131	1823371.9586	6793657.4294	CURB
132	1823354.3370	6793657.5290	CURB
133	1823235.2442	6793658.3674	CURB
134	1823233.6660	6793657.1951	CURB
135	1823220.2783	6793657.5177	CURB
136	1823218.3264	6793659.5171	CURB
137	1823155.2686	6793659.9412	CURB
138	1823153.2686	6793657.9493	CURB
139	1823139.6045	6793657.9493	CURB
140	1823134.5033	6793659.0236	CURB
141	1822999.5325	6793659.8721	CURB
142	1822978.0468	6793661.1547	CURB
143	1822977.0398	6793660.1548	CURB
144	1822855.5064	6793661.0525	CURB
145	1823340.5740	6793657.6541	CURB
146	1823319.3032	6793657.7981	CURB
147	1823292.1948	6793657.9817	CURB
148	1823275.8001	6793658.0927	CURB
149	1823245.3264	6793658.2991	CURB
150	1823111.0945	6793659.1708	CURB
151	1823083.1988	6793659.3462	CURB
152	1823061.1103	6793659.4850	CURB
153	1823055.3982	6793659.5209	CURB
154	1823026.7109	6793659.7013	CURB
155	1823009.5148	6793659.8267	CURB

HORIZ. CONTROL CURB DATA

Point #	Northing	Easting	Remark
156	1822999.5331	6793659.8721	CURB
157	1822957.4442	6793660.3368	CURB
158	1822907.1061	6793660.6713	CURB
159	1822877.4774	6793660.8902	CURB
160	1822865.2189	6793660.9808	CURB

HORIZ. CONTROL LIGHT DATA

Point #	Northing	Easting	Remark
127	1823548.5453	6793674.7691	LIGHT
128	1823551.9976	6794012.9707	LIGHT
129	1823451.6378	6794027.7830	LIGHT

C4.2

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REGISTERED PROFESSIONAL ENGINEER · JAMES S. BLISS · No. 41795 · Exp. 3-31-24 · CIVIL · STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HORIZONTAL CONTROL DATA TABLES

SHEET: 9 OF 145

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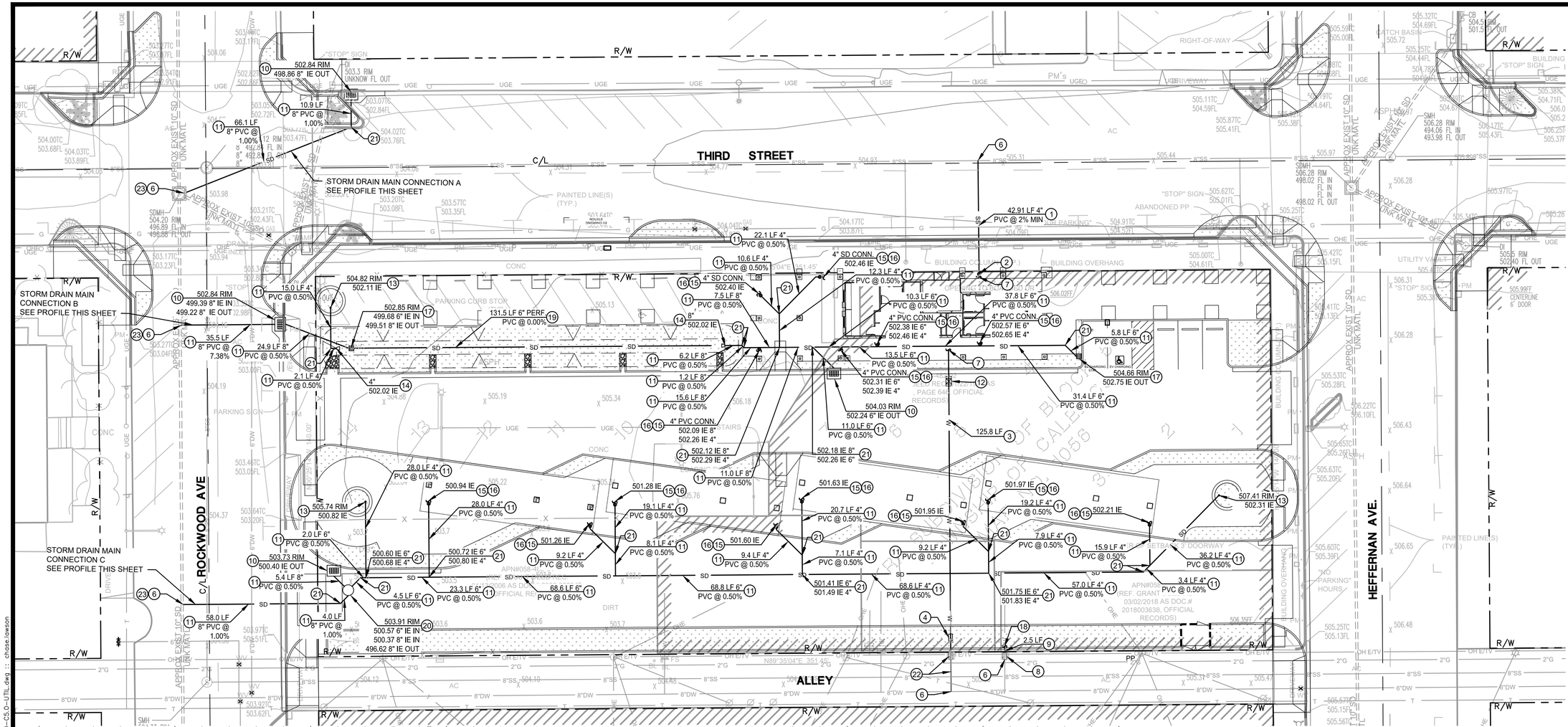

LEGEND

—W—☐—	COPPER DOMESTIC WATER SERVICE & METER
—I—☐—	IRRIGATION SERVICE & METER
—SS—	PVC SEWER LINE
—SD—	PVC STORM DRAIN
— - - —	PROPERTY LINE

CONSTRUCTION NOTES

① 4" PVC (SDR 35) SEWER LINE, LENGTH AND SLOPE PER PLAN AND PER IMPERIAL COUNTY STD DWG NO. GATEWAY-210. PIPE BEDDING AND TRENCH BACKFILL PER CITY OF CALEXICO STD TRENCH DETAIL. SEE DETAIL 10, SHEET C6.1 AND DETAIL 8, SHEET C6.0.

② SANITARY SEWER CLEANOUT PER SPPWC STD PLAN 204-3. SEE DETAIL 14, SHEET C6.2.

③ 2" TYPE K COPPER WATER SERVICE, SLEEVED WITH PVC. PER IMPERIAL COUNTY STD DWG NO. GATEWAY-105, LENGTH PER PLAN, PIPE BEDDING AND TRENCH PER CITY OF CALEXICO STD TRENCH DETAIL. SEE DETAIL 34, SHEET C6.10 AND DETAIL 8, SHEET C6.0.

④ BACKFLOW PREVENTION DEVICE PER DETAIL 32, SHEET C6.9.

⑤ THRUST BLOCK PER IMPERIAL COUNTY STD DWG NO. GATEWAY-100. SEE DETAIL 36, SHEET C6.10

⑥ CONNECT TO EXISTING UTILITY. SEE NOTE 3 BELOW.

⑦ REFER TO PLUMBING SITE PLAN FOR CONTINUATION

⑧ REMOVE AND REPLACE EXISTING 3/4" WATER METER. CONTACT JOSE SALDANA AT THE CITY OF CALEXICO.

⑨ 1-1/2" TYPE K COPPER IRRIGATION SERVICE, SLEEVED WITH PVC

⑩ GRATED INLET PER CITY OF CALEXICO STD CATCH BASIN, TYPE 1. SEE DETAIL 6, SHEET C6.0 AND DETAIL 4, SHEET C6.0.

⑪ STORM DRAIN PIPE, SDR 35 PVC. SIZE PER PLAN. PIPE BEDDING AND TRENCH PER CITY OF CALEXICO STD TRENCH DETAILS. SEE DETAIL 8, SHEET C6.0.

⑫ 2" WATER SHUTOFF VALVE AND ENCASEMENT

⑬ 4" PLANTER AREA DRAIN PER DETAIL 9, SHEET C6.0.

⑭ GALVANIZED STEEL FLARED END SECTION. SIZE PER PLAN.

⑮ DOWNSPOUT CONNECTION PER PLUMBING PLANS

⑯ STORM DRAIN CLEAN OUT PER SPPWC STD PLAN 204-3. SEE DETAIL 14, SHEET C6.2.

⑰ BROOKS CATCH BASIN (1212CB), OR EQUIVALENT PER DETAIL 31, SHEET C6.9.

⑱ REFER TO IRRIGATION PLAN FOR CONTINUATION

⑲ 6" PVC SDR 35 PERFORATED PIPE. LENGTH AND SLOPE PER PLAN. SEE BIO-RETENTION BASIN DETAIL 26 ON SHEET C6.8.

⑳ 48" PERKFILTER MANHOLE PER DETAIL 30, SHEET C6.9.

㉑ ALL PROPOSED STORM DRAIN TO HAVE PVC FITTINGS.

㉒ REMOVE EXISTING 1" WATER SERVICE AND REPLACE WITH 2" WATER SERVICE PER DETAIL 34, SHEET C6.10. CONTACT JOSE SALDANA AT CITY OF CALEXICO.

㉓ PIPE CONNECTION TO EXISTING STORM DRAIN PER SPPWC STD PLAN 335-2, CASE 2 SADDLE CONNECTION. SEE DETAIL 35, SHEET C6.10.

NOTES

1. MAINTAIN 10' CLEARANCE BETWEEN DOMESTIC AND SANITARY SEWER PIPES OUTSIDE DIAMETERS.
2. DEPTH OF COVER BASED ON FINISHED SURFACE.
3. EXISTING UTILITY LOCATIONS, SIZES, MATERIALS AND DEPTHS SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR TO POTHOLE UTILITIES BEING CONNECTED TO, AS WELL AS UTILITIES BEING CROSSED (STORM DRAIN, SEWER, WATER, AND GAS) PRIOR TO CONSTRUCTION.
4. PROVIDE PEDESTRIAN (WALKWAYS) AND TRAFFIC RATED (ROADWAYS) RIMS AND COVERS FOR RELOCATED OR ADJUSTED UTILITY STRUCTURES.
5. REFERENCE MECHANICAL, ELECTRICAL AND TELECOMMUNICATION PLANS FOR DEMOLITION AND INSTALLATION OF M, E, & T UTILITIES AND STRUCTURES.
6. REFERENCE LANDSCAPE PLANS FOR INSTALLATION OF IRRIGATION LINES.

CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AS DESCRIBED IN SPECIAL NOTE 8 ON SHEET C1.1.

STORM DRAIN MAIN CONNECTION A
SCALE: HORIZ. 1"=20' VERT. 1"=2'

STORM DRAIN MAIN CONNECTION B
SCALE: HORIZ. 1"=20' VERT. 1"=2'

STORM DRAIN MAIN CONNECTION C
SCALE: HORIZ. 1"=20' VERT. 1"=2'

0 10' 20' 40' 60'
SCALE: 1" = 20'

C5.0

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ENGINEER DATE

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ENGINEER DATE

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DATE 02/01/24

JAMES S. BLISS
No. 41795
Exp. 3-31-24
CIVIL

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL UTILITY PLAN

SHEET:
10
OF
145

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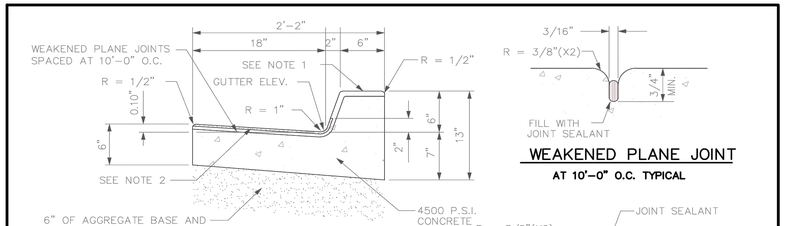
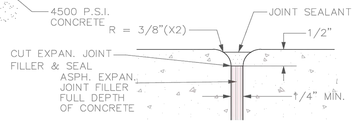


WEAKENED PLANE JOINT

AT 10'-0" O.C. TYPICAL



EXPANSION JOINT

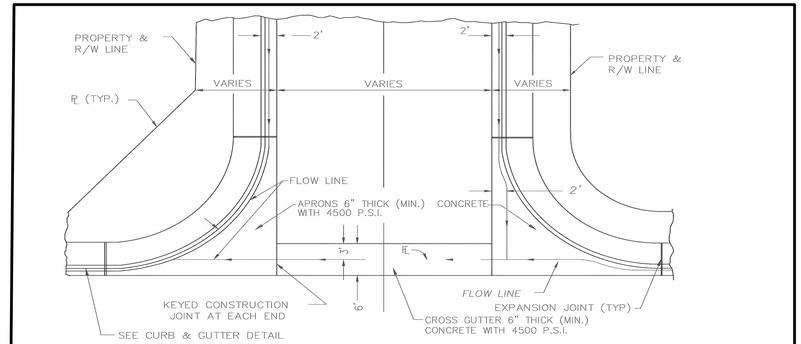
AT 40'-0" O.C. TYPICAL AND AT ALL STRUCTURES, DRIVEWAYS AND RETURNS

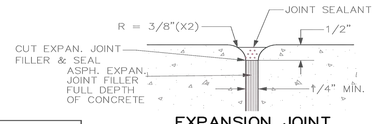
NOTES:

1. PLACE "S" (STAMPED), AND "G" (CHIPPED) IN TOP OF CURB FOR SHOWING THE RESPECTIVE LOCATION OF SEWER AND GAS SERVICES. "W" (STAMPED)– WATER SERVICE
2. EXTEND JOINT SEALANT ACROSS GUTTER AND 2" UP CURB FACE, ALL JOINTS.
3. SUBGRADE FOR CURB SHALL BE 90% MIN. COMPACTED.

CURB DETAIL NTS

CURB DETAIL 1 C6.0
N.T.S.

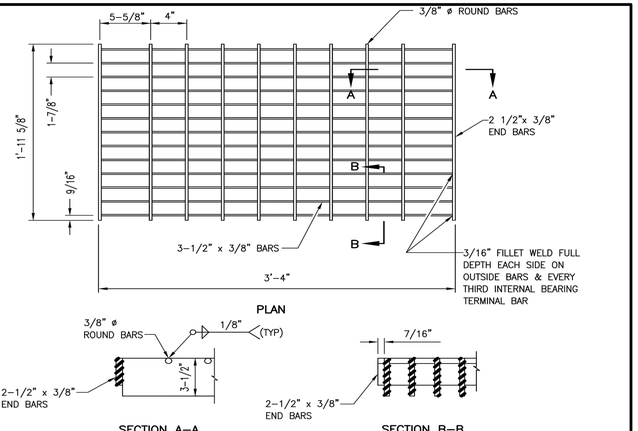




EXPANSION JOINT

CROSS GUTTER LAYOUT NTS

CROSS GUTTER LAYOUT 2 C6.0
N.T.S.



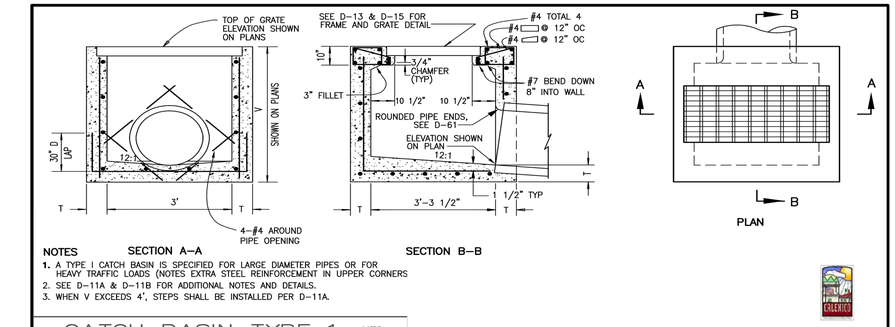
NOTES
1. HOT–DIP GALVANIZE ALL PARTS AFTER FABRICATION.
2. DIMENSIONS ARE TO CENTERLINE OF BARS UNLESS OTHERWISE NOTED.
3. NOT TO BE USED IN PEDESTRIAN AREAS.
4. WEIGHT: 200 POUNDS +/–.

DRAINAGE STRUCTURE GRATE NTS

DRAINAGE STRUCTURE GRATE 4 C6.0
N.T.S.

CROSS GUTTER SECTION NTS

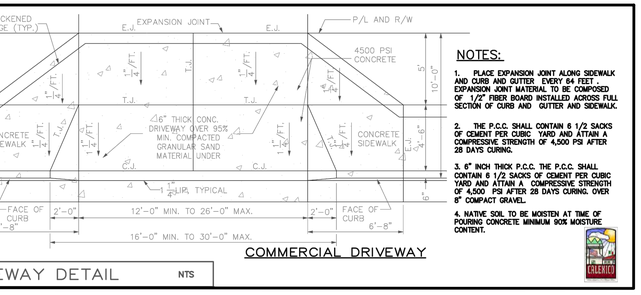
CROSS GUTTER SECTION 5 C6.0
N.T.S.



NOTES
1. A TYPE I CATCH BASIN IS SPECIFIED FOR LARGE DIAMETER PIPES OR FOR HEAVY TRAFFIC LOADS (NOTES EXTRA STEEL REINFORCEMENT IN UPPER CORNERS
2. SEE D–11A & D–11B FOR ADDITIONAL NOTES AND DETAILS.
3. WHEN V EXCEEDS 4', STEPS SHALL BE INSTALLED PER D–11A.

CATCH BASIN TYPE 1 NTS

CATCH BASIN TYPE 1 6 C6.0
N.T.S.



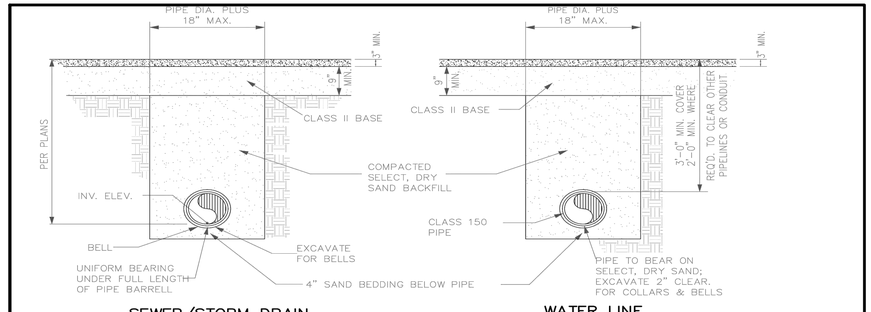
COMMERCIAL DRIVEWAY

NOTES:

1. PLACE EXPANSION JOINT ALONG SIDEWALK AND CURB AND GUTTER EVERY 64 FEET . EXPANSION JOINT MATERIAL TO BE COMPOSED OF 1/2" FIBER BOARD INSTALLED ACROSS FULL SECTION OF CURB AND GUTTER AND SIDEWALK.
2. THE P.C.C. SHALL CONTAIN 6 1/2 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 PSI AFTER 28 DAYS CURING.
3. 6" INCH THICK P.C.C. THE P.C.C. SHALL CONTAIN 6 1/2 SACKS OF CEMENT PER CUBIC YARD AND ATTAIN A COMPRESSIVE STRENGTH OF 4,500 PSI AFTER 28 DAYS CURING. OVER 6" COMPACT GRAVEL.
4. NATIVE SOIL TO BE MOISTEN AT TIME OF POURING CONCRETE MINIMUM 90% MOISTURE CONTENT.

DRIVEWAY DETAIL NTS

COMMERCIAL DRIVEWAY DETAIL 7 C6.0
N.T.S.

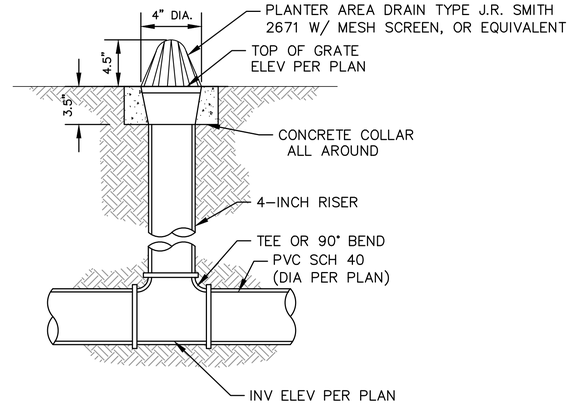


NOTES:

1. ALL TRENCH BACKFILL TO BE COMPACTED 95% ± 3% MAX.; TESTED AT LEAST ONCE EVERY 100' FT.
2. WHEN TRENCHING IN A.C, SAWCUT AND REMOVE STRIP SECTION TO THE FULL DEPTH OF THE EXISTING A.C. PAVEMENT.
3. WHEN REPLACING A.C. REPLACE WITH HOT MIX ASPHALT.

TRENCH DETAILS 1 NTS

TRENCH DETAILS 1 8 C6.0
N.T.S.



PLANTER AREA DRAIN DETAIL 9 C6.0
N.T.S.

C6.0

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PROJECT DESCRIPTION:
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SHEET: 11 OF 145

BID DELIVERABLE

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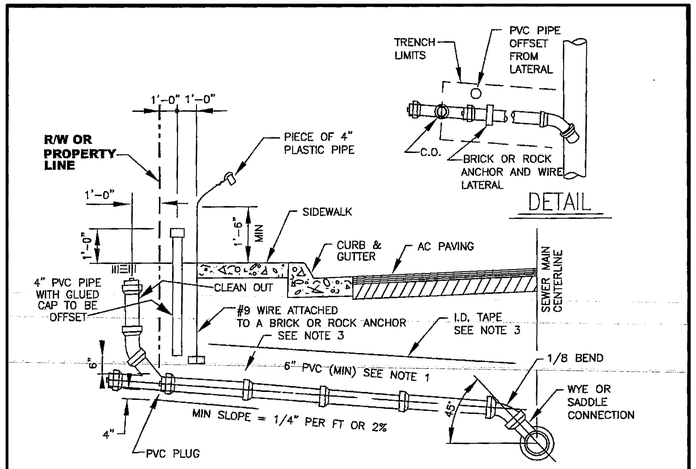


SEWER LATERAL PROFILE

NOTES:

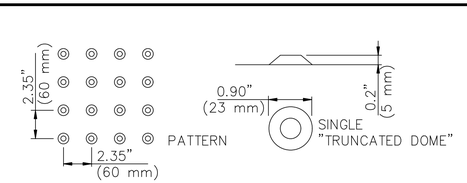
1. LATERAL SIZE SHALL BE 6" MIN OR AS SHOWN ON THE APPROVED PLANS.
2. LATERAL SHALL BE INSTALLED TO PROPERTY LINE. AS SHOWN W/C.O. ON-SITE
3. PLACE GRANULAR BEDDING 1'-0" OVER TOP AND 4" UNDER BOTTOM OF LATERAL. INSTALL DETECTABLE I.D. TAPE 2'-0" ABOVE TOP OF THE GRAVEL FROM THE MAIN TO THE END OF THE LATERAL.
4. SEE MATERIALS LIST FOR APPROVED MATERIALS.
5. SEWER LATERAL SHALL HAVE A 10'-0" MINIMUM SEPARATION FROM WATER LATERAL.
6. ALL JOINTS ON SEWER LATERAL PIPE SHALL BE BELL & SPIGOT WITH RUBBER RING.
7. LETTER "S" SHALL BE STAMPED OR CHISELD ON TOP OF CURB OVER THE LATERAL, NOT LESS THAN 1 1/2" HIGH AND 3/16" DEEP.

IMPERIAL COUNTY
PUBLIC WORKS DEPARTMENT
EL CENTRO, CALIFORNIA

SEWER LATERAL DETAILS
NOT TO SCALE

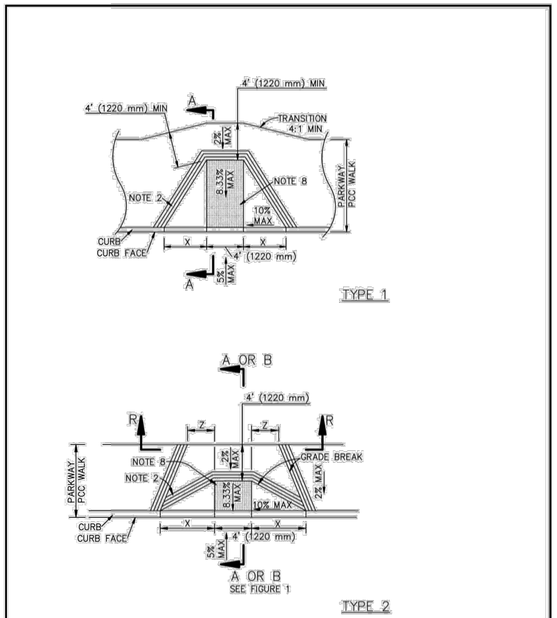
DATE: 08/29/02
DRAWN: O. Espinoza
CHECKED: F. Fiorenza
DWG No. Gateway-210

SEWER LATERAL DETAILS 10 C6.1
N.T.S.



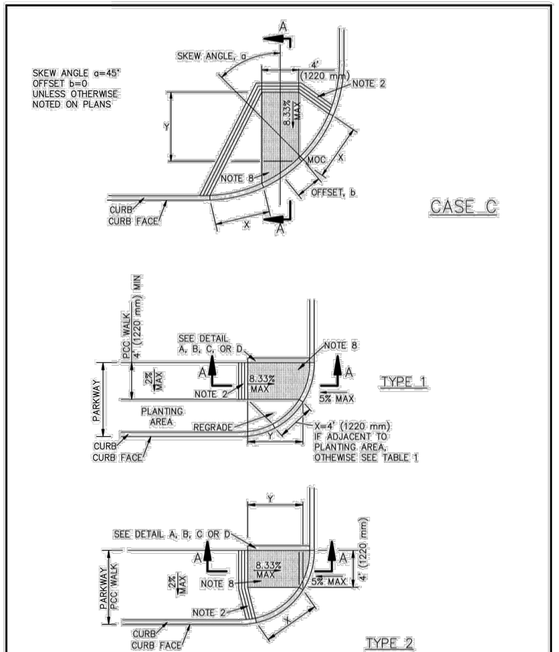
DETECTABLE WARNING DETAIL

DETECTABLE WARNING SURFACE 12.1 C6.1
N.T.S.



PARTS OF THIS STANDARD PLAN SHOW INSTALLATION FOR TYPICAL RETROFIT CONDITIONS, AND ARE NOT FULLY COMPLIANT WITH CALIFORNIA BUILDING CODE REQUIREMENTS FOR NEW DEVELOPMENT.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2000, 2005, 2006, 2013	CURB RAMP USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 111-5 SHEET 1 OF 10



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	CURB RAMP	STANDARD PLAN 111-5 SHEET 5 OF 10

CURB RAMP DETAILS 12 C6.1
N.T.S.

GENERAL NOTES:

2. THE RAMP SHALL HAVE A 12" WIDE BOARDER WITH ¼" GROOVES APPROXIMATELY ¾" OC. SEE GROOVING DETAIL ON DETAL 3, SHEET 6.0.
8. CONSTRUCT DETECTABLE WARNING SURFACE PER DETAIL THIS SHEET. MATERIALS SHALL BE PER CONTRACT DOCUMENTS.

C6.1

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BUSS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BUSS No. 21795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

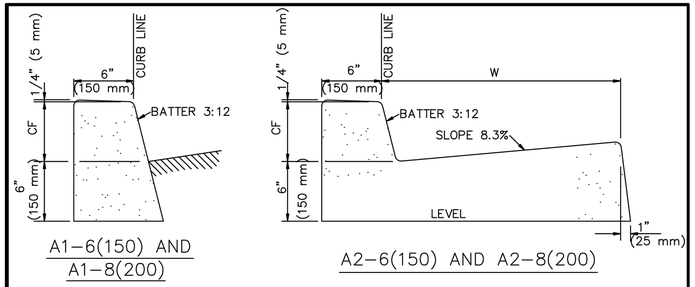
DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: CIVIL DETAILS

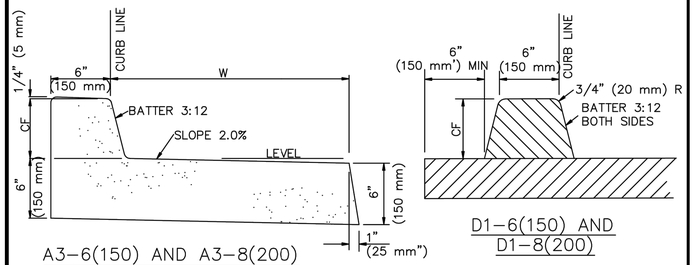
SHEET: 12 OF 145

BID DELIVERABLE



A1–6(150) AND A1–8(200)

A2–6(150) AND A2–8(200)

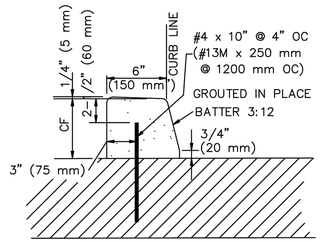


A3–6(150) AND A3–8(200)

D1–6(150) AND D1–8(200)

NOTES:

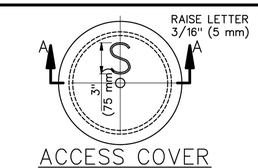
1. THE LAST NUMBER IN THE DESIGNATION IS THE CURB FACE (CF) HEIGHT, INCHES (mm).
2. GUTTER WIDTH, W, IS 24" (600 mm) UNLESS OTHERWISE SPECIFIED.
3. TYPES A1, A2, A3 AND C1 SHALL BE CONSTRUCTED FROM PCC.
4. TYPE D1 CURB SHALL BE CONSTRUCTED FROM ASPHALT CONCRETE.
5. TYPE C1 CURB SHALL BE ANCHORED WITH STEEL DOWELS AS SHOWN OR WITH AN EPOXY APPROVED BY THE ENGINEER.
6. ALL EXPOSED CORNERS ON PCC CURBS AND GUTTERS SHALL BE ROUNDED WITH A 1/2" (15 mm) RADIUS.



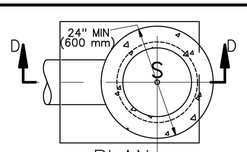
C1–6(150) AND C1–8(200)

STANDARD PLAN FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1984 REV. 1996, 2009	CURB AND GUTTER – BARRIER USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 120–2 SHEET 1 OF 1

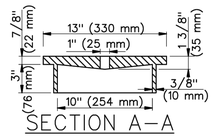
CURB AND GUTTER - BARRIER DETAILS 13 C6.2
N.T.S.



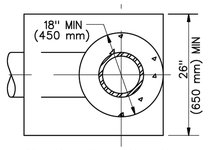
ACCESS COVER



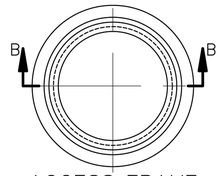
PLAN



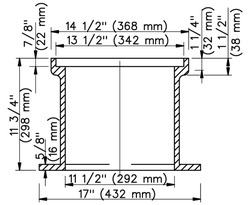
SECTION A–A



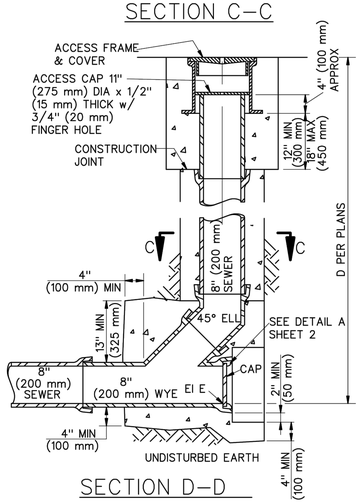
SECTION C–C



ACCESS FRAME



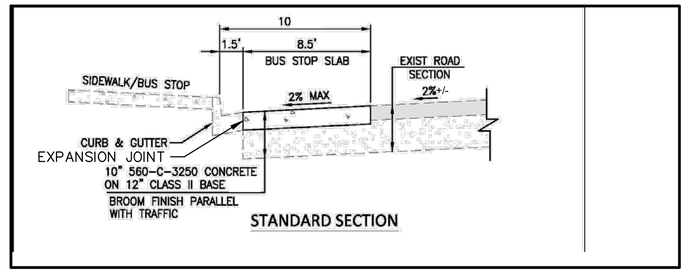
SECTION B–B



SECTION D–D

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1993 REV. 2005, 2009, 2021	TERMINAL CLEANOUT STRUCTURE USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 204–3 SHEET 1 OF 2

TERMINAL CLEANOUT STRUCTURE DETAILS 14 C6.2
N.T.S.



STANDARD SECTION

BUS STOP PAD SECTION 15 C6.2
N.T.S.

C6.2

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

SHEET: 13 OF 145

BID DELIVERABLE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Atifa Ferouz
REGISTERED CIVIL ENGINEER

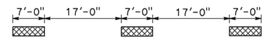
May 31, 2018
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

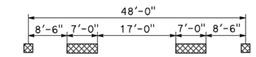
REGISTERED PROFESSIONAL ENGINEER — Atifa Ferouz — No. C80402 — Exp. 3-31-19 — CIVIL — STATE OF CALIFORNIA

CENTERLINES
(2 LANE HIGHWAYS)

DETAIL 1



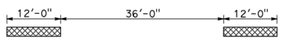
DETAIL 2



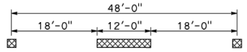
~~DETAIL 3~~ DETAIL 3 DELETED

~~DETAIL 4~~ DETAIL 4 DELETED

DETAIL 5



DETAIL 6



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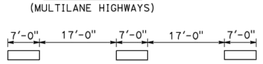
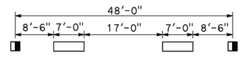
LANELINES
(MULTILANE HIGHWAYS)

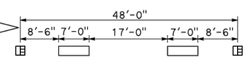
DETAIL 8



DETAIL 9



DETAIL 9A
SEE NOTE



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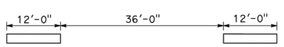
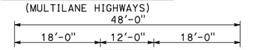
DETAIL 11

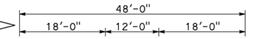


LANELINES (Cont)
(MULTILANE HIGHWAYS)

DETAIL 12



DETAIL 12A
SEE NOTE



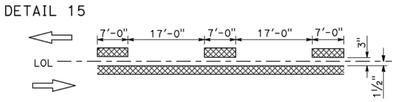
~~DETAIL 13~~ DETAIL 13 DELETED

~~DETAIL 14~~ DETAIL 14 DELETED

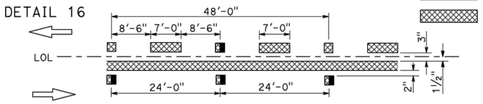
~~DETAIL 14A~~ DETAIL 14A DELETED

NO PASSING ZONES-ONE DIRECTION

DETAIL 15



DETAIL 16



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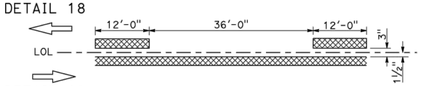
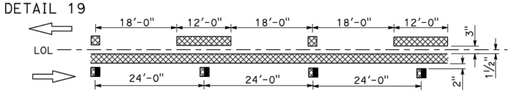
DETAIL 18



DETAIL 19



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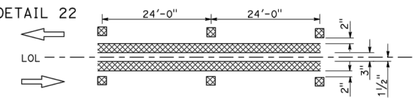
NOTE:
FOR FREEWAY APPLICATION ONLY

NO PASSING ZONES-TWO DIRECTION

DETAIL 21

DETAIL 22



~~DETAIL 23~~ DETAIL 23 DELETED

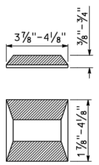
LEGEND

MARKERS

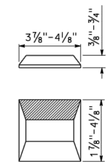
- TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE D TWO-WAY YELLOW RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE
- TYPE H ONE-WAY YELLOW RETROREFLECTIVE

LINES

- 6" WHITE
- 6" YELLOW



TYPE C AND TYPE D



TYPE G AND TYPE H

RETROREFLECTIVE FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS

NO SCALE

A20A

1-26-18

PAVEMENT MARKERS AND TRAFFIC LINES TYPICAL DETAILS (16 / C6.3)
N.T.S.

12

2018 STANDARD PLAN A20A

C6.3

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. — 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER — JAMES S. BLISS — No. 21795 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

DRAWN BY:	CRL
CHECK BY:	JSB
DATE:	02/01/24
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

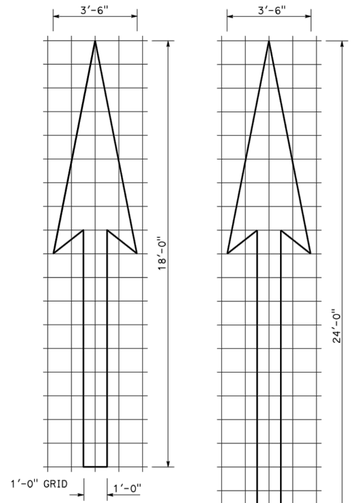
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

SHEET: 14 OF 145

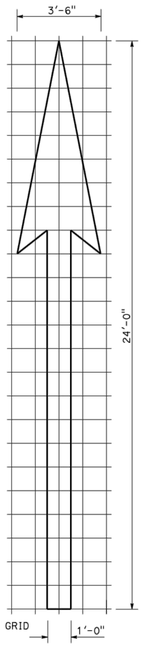
BID DELIVERABLE

Plotted — 2/1/2024 12:48:27 PM :: Saved — 2/1/2024 12:09:07 PM :: S:\SMP0101001\CADD\Design\Sheets\SMP0101001-C6.0-6.9-DETAILS.dwg :: chase.lawson



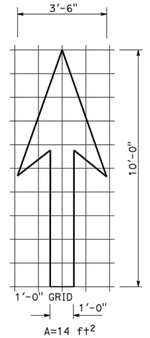
A=25 ft²

TYPE I 18'-0" ARROW



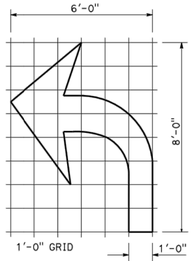
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

TYPE I 10'-0" ARROW



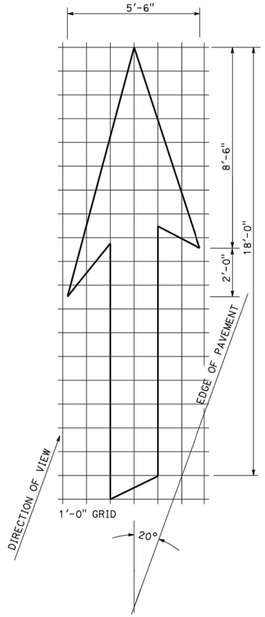
A=15 ft²

TYPE IV (L) ARROW

(For Type IV (R) arrow, use mirror image)

NOTE:

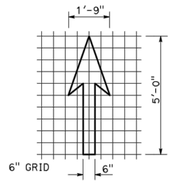
Minor variations in dimensions may be accepted by the Engineer.



A=42 ft²

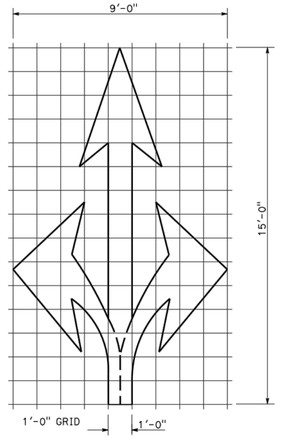
TYPE VI ARROW

Right lane drop arrow (For left lane, use mirror image)



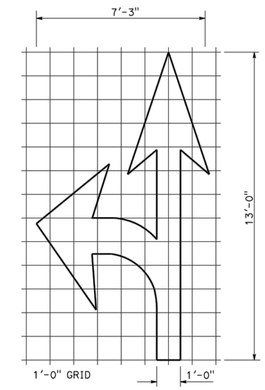
A=3.5 ft²

BIKE LANE ARROW



A=36 ft²

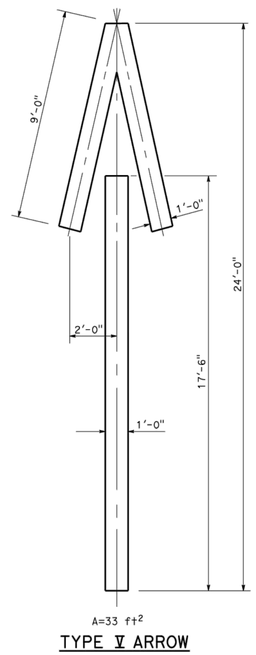
TYPE VIII ARROW



A=27 ft²

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft²

TYPE V ARROW

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

A24A

DIst	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Atifa Ferouz
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Atifa Ferouz — No. C80402 — Exp. 3-31-19 — CIVIL — STATE OF CALIFORNIA

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2018 STANDARD PLAN A24A

PAVEMENT MARKERS ARROWS DETAILS 17 C6.4
N.T.S.

C6.4

NO.	BY:	REVISION COMMENTS

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COMMUNITY DEVELOPMENT DEPARTMENT
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608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER — JAMES S. BLISS — No. 41795 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

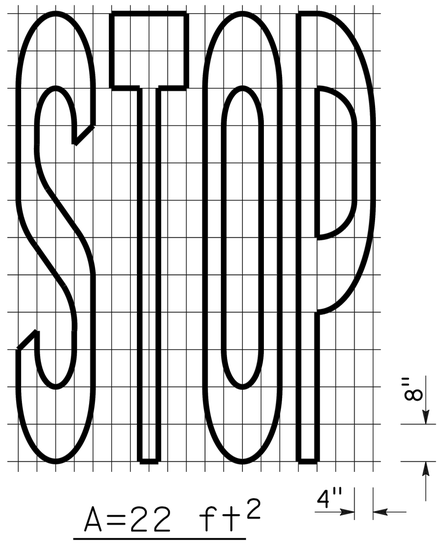
DRAWN BY:	CRL
CHECK BY:	JSB
DATE:	02/01/24
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

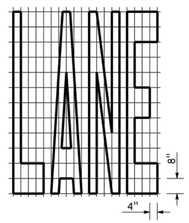
SHEET: 15 OF 145

BID DELIVERABLE

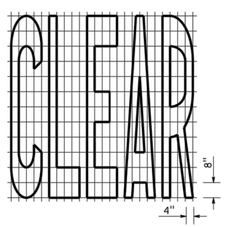


A=22 ft²

STOP PAVEMENT MARKINGS PER CALTRANS STANDARD PLAN A24D (19 / C6.5)
N.T.S.



A=24 ft²



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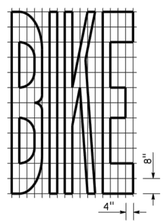
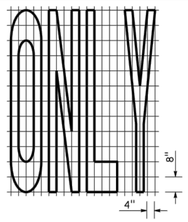


A=21 ft²



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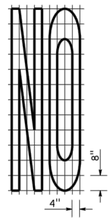
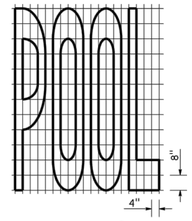
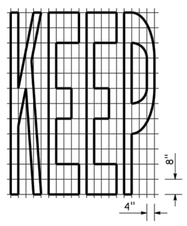


A=14 ft²



A=23 ft²



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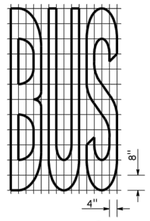

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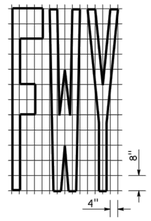
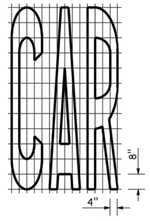
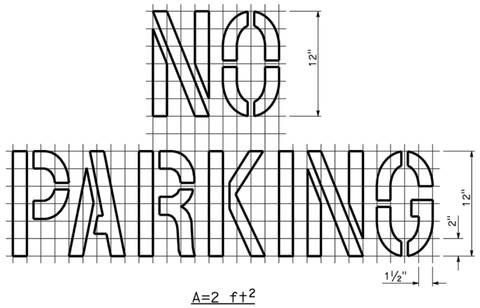


A=16 ft²

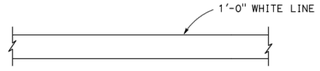


A=17 ft²

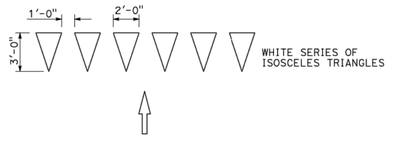
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it must read "UP", i.e., the first word must be nearest the driver.
2. The space between words must be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

A24E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Atifa Ferouz
REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
Atifa Ferouz No. C80402 Exp. 3-31-19 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES DETAILS (18 / C6.5)
N.T.S.

21

2018 STANDARD PLAN A24E

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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

SHEET: 16 OF 145

C6.5

BID DELIVERABLE

Plotted – 2/1/2024 12:08:58 PM :: Saved – 10/9/2023 3:37:30 PM :: S:\SMP010100\CADD\Design\Sheets\SMP010100-C6.0-6.9-DETAILS.dwg :: chase.lawson

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

Atifa Ferouz
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

Atifa Ferouz
No. C80402
Exp. 3-31-19
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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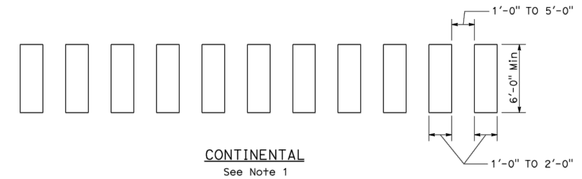
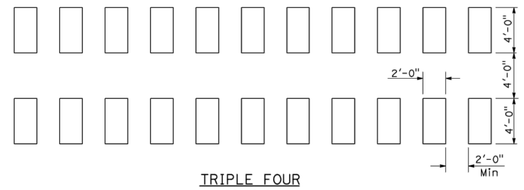
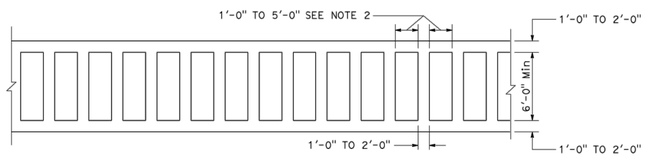


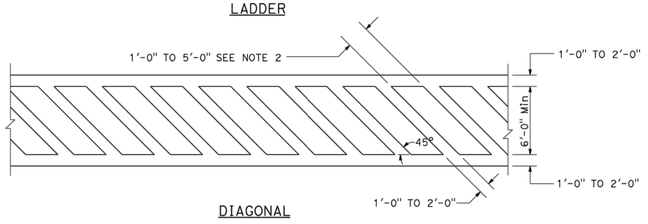
CONTINENTAL
See Note 1



TRIPLE FOUR
See Note 1



LADDER

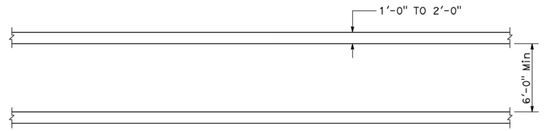


DIAGONAL

HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings must be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
CROSSWALKS

NO SCALE

A24F

PAVEMENT MARKINGS CROSSWALKS DETAILS 19 C6.6
N.T.S.

C6.6

NO.	BY:	REVISION COMMENTS

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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

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APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER
JAMES S. BLISS
No. 21795
Exp. 3-31-24
CIVIL
STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

SHEET: 17 OF 145

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

Rebecca Lynn Mowry
No. C54415
Exp. 12-31-19
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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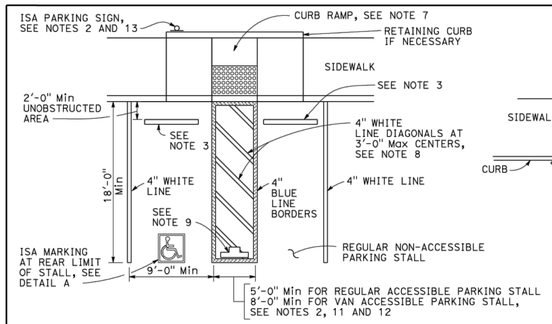
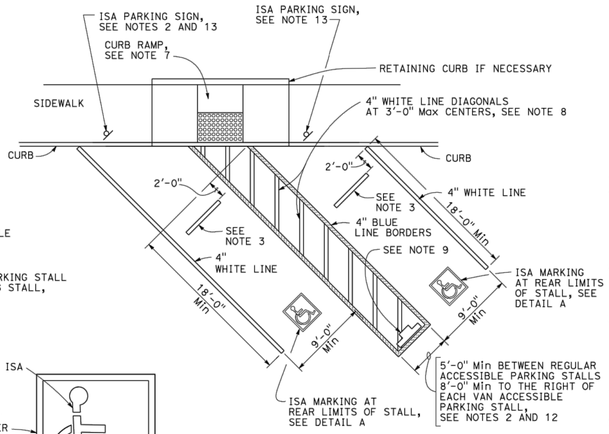
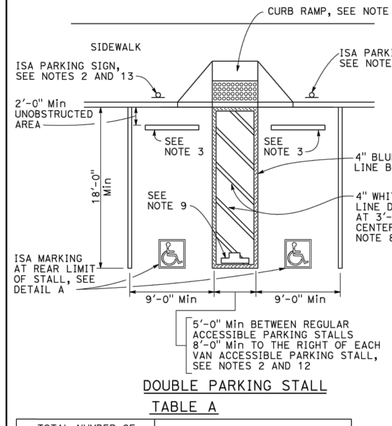


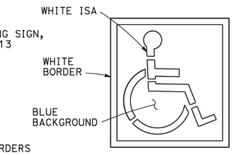
SINGLE PARKING STALL



DIAGONAL DOUBLE PARKING STALLS



DOUBLE PARKING STALL



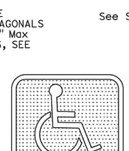
ISA MARKING
See Standard Plan A24C

DETAIL A

TABLE A

TOTAL NUMBER OF PARKING SPACES PROVIDED IN PARKING FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1000	2 PERCENT OF TOTAL
1001 AND OVER	20 PLUS 1 FOR EACH 100 OR FRACTION THEREOF OVER 1000

SIGN R99 (CA)



PLAQUE R99B (CA)
SIGN R99 (CA) with PLAQUE R99B (CA)
See Note 6

SIGN R99C (CA)
See Note 6

SIGN R100B (CA)
See Note 10

SIGN R7-8b
See Notes 2 and 6

OFF-STREET PARKING SIGNS
(Parking lot or garage)
See Note 6

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. 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 parking bumper shall be provided if required 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 vehicles other than their own. For more parking bumper requirements, see the Standard Specifications.
4. Parking spaces and access aisles shall be level with surface slopes not exceeding 1.5% in all directions.
5. Table A 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 sign or plaque panel shall be a minimum of 7'-0" above the surrounding surface.
7. Curb ramps shall conform to the details shown on Standard Plan A88A.
8. Blue paint, instead of white may be used for marking accessibility aisles in areas where snow may cause white markings to not be visible.
9. 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. See Standard Plan A90B for details of the "NO PARKING" pavement marking.
10. 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.
11. Where a single (non-van) accessible parking space is provided, the loading and unloading access aisle shall be on the passenger side of the vehicle as the vehicle is going forward into the parking space.
12. 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.
13. Accessible Parking Only Sign shall be Sign R99C (CA) or Sign R99 (CA) with Plaque R99B (CA).

LEGEND

ISA = International Symbol of Accessibility

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACCESSIBLE PARKING OFF-STREET

NO SCALE

A90A

ACCESSIBLE PARKING OFF-STREET DETAILS

N.T.S.

20
C6.7

C6.7

NO.	BY:	REVISION COMMENTS

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COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
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San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER
JAMES S. BLISS
No. 41795
Exp. 3-31-24
CIVIL
STATE OF CALIFORNIA

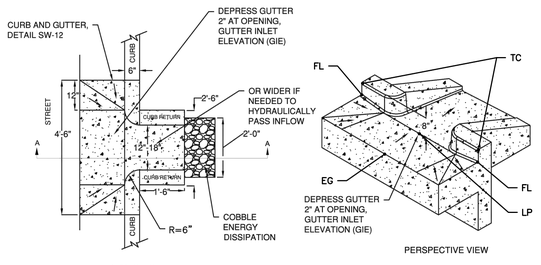
DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

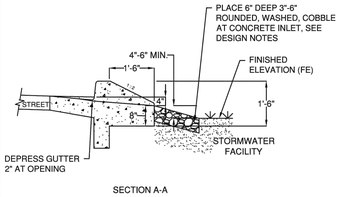
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CIVIL DETAILS

SHEET: 18 OF 145

BID DELIVERABLE





SECTION A-A

BIORETENTION DESIGN NOTES

1. FOR USE WITH STORMWATER FACILITIES WITH SIDE SLOPES.
2. PROVIDE SPOT ELEVATIONS ON PLANS (FE, OE, GIE, IE). SEE DETAIL SW-1, SW-1A, SW-3 OR SW-3A.
3. CURB AND WALL DETAILS MAY BE MODIFIED BY CIVIL AND GEOTECHNICAL ENGINEERS SUBJECT TO APPROVAL BY CITY ENGINEER.
4. WHERE INLET FLOW VELOCITY IS HIGH, EXTEND COBBLE INTO FACILITY, BUT AVOID EXCESSIVE USE.
5. CURB HEIGHT MAY BE REDUCED TO 4-INCHES WHERE ADJACENT TO A SIDEWALK. SEE DETAILS SW-12 & SW-13.

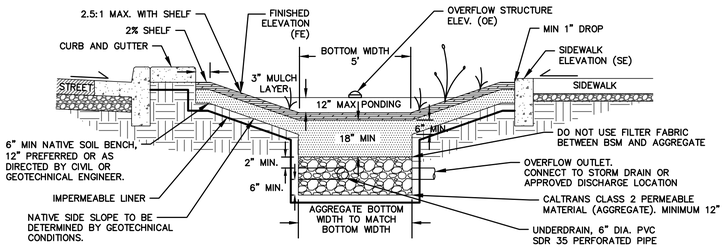
CONSTRUCTION NOTES

1. AFTER CONSTRUCTION PLACE SAND BAGS AT GUTTER OPENINGS TO KEEP STORM FLOWS FROM ENTERING FACILITY UNTIL VEGETATION IS ESTABLISHED.

LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT STANDARD DETAILS

CASQA / LIDI — DEVELOPED UNDER PROP. 84 GRANT	APPROVED BY:	CURB CUT INLET FOR SLOPE SIDED BIORETENTION SWALE	STANDARD PLAN NO. SW-18
	VERSION: 08/31/2017	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION	SHEET 1 OF 1

CURB CUT INLET DETAIL 21 C6.8
N.T.S.



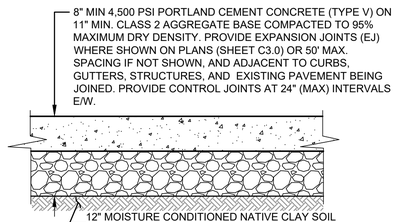
LEGEND

- MULCH/COMPOST LAYER (SEE DESIGN NOTE 12)
- BIORETENTION SOIL MEDIA (BSM)
- AGGREGATE
- NATIVE SOIL
- ASPHALT PAVEMENT
- CONCRETE

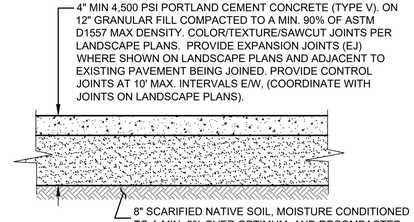
CONSTRUCTION NOTES

1. MAINTAIN UNDISTURBED NATIVE SOIL BENCH TO SUPPORT ADJACENT SIDEWALK/ROAD. SEQUENCE WORK TO CONSTRUCT CURBS BEFORE EXCAVATING BIORETENTION AREA FOR AGGREGATE AND BSM.
2. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.
3. FACILITY EXCAVATION TO ALLOW FOR SPECIFIED AGGREGATE, BSM, AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.
4. INSTALL UNDERDRAIN WITH HOLES FACING DOWN. TOP OF UNDERDRAIN 6" BELOW TOP OF AGGREGATE LAYER. UNDERDRAIN SLOPE MAY BE FLAT.
5. PLACE BSM IN 6" LIFTS. COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, LET DRY OVERNIGHT BEFORE PLANTING.
6. DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.
7. KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.
8. STORMWATER SHOULD BE DIRECTED AWAY FROM BIORETENTION UNTIL CONSTRUCTION IS COMPLETE AND DRAINAGE AREA VEGETATION IS STABILIZED.

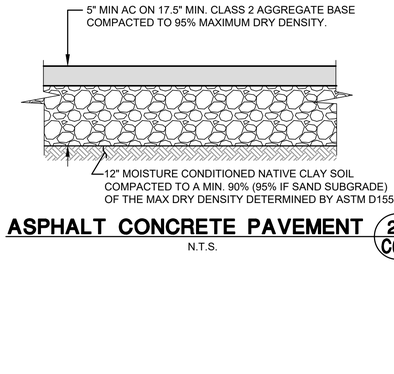
BIO-RETENTION BASIN DETAIL 26 C6.8
N.T.S.



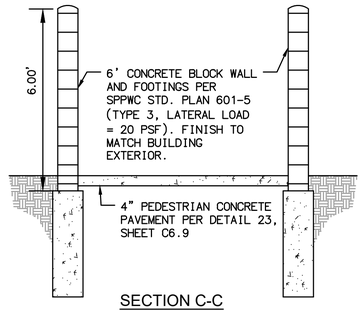
VEHICULAR CONCRETE PAVEMENT 22 C6.8
N.T.S.



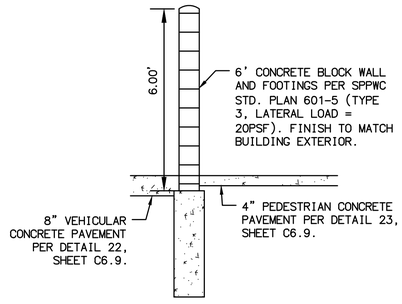
PEDESTRIAN CONCRETE PAVEMENT 23 C6.8
N.T.S.



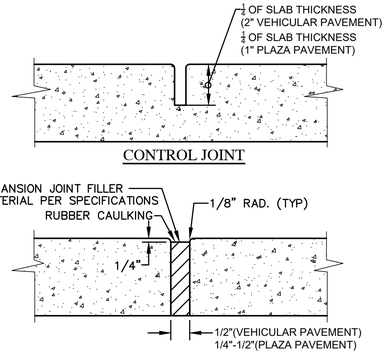
ASPHALT CONCRETE PAVEMENT 25 C6.8
N.T.S.



SECTION C-C



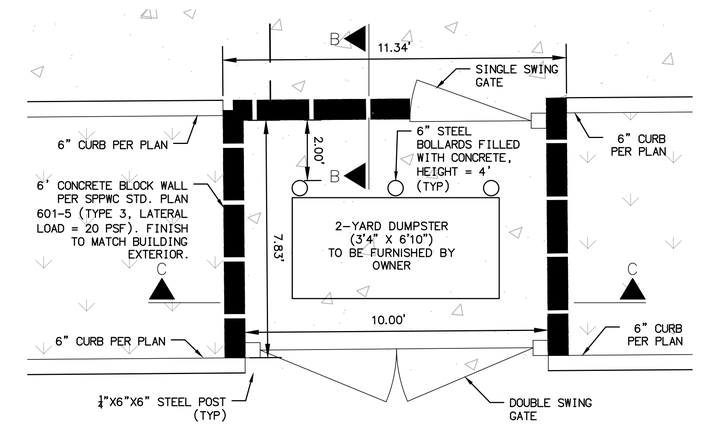
SECTION B-B



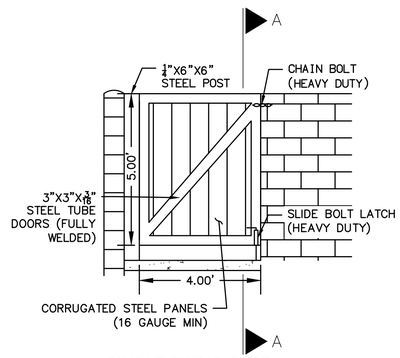
NOTES:

1. PROVIDE EXPANSION JOINTS (EJ) AT LOCATIONS SHOWN ON PLANS AND ADJACENT TO CURBS, GUTTERS, STRUCTURES (INCLUDING MANHOLES, VAULTS, ETC.) AND EXISTING PAVEMENT BEING JOINED.
2. PROVIDE CONTROL JOINTS AT 16' TO 24'. INTERVALS.

VEHICULAR CONCRETE PAVEMENT JOINTS 27 C6.8
N.T.S.

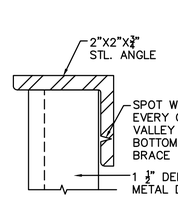


PLAN

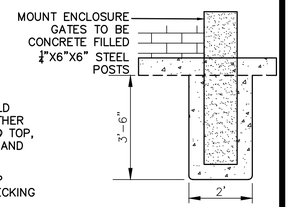


SINGLE SWING GATE

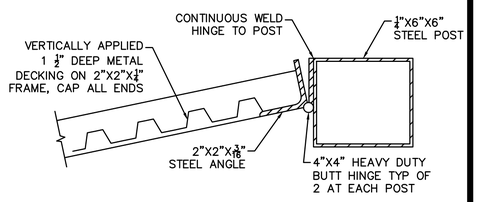
DOUBLE SWING GATE



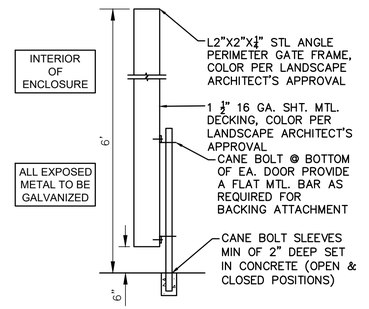
GATE FRAME



DOOR FOOTING



GATE AT POST



SECTION A-A

DUMPSTER ENCLOSURE DETAILS 24 C6.8
N.T.S.

C6.8

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER ____ DATE ____

SEAL:

APPROVED BY: ENGINEER ____ DATE ____

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BUSS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER — JAMES S. BUSS — No. 41795 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

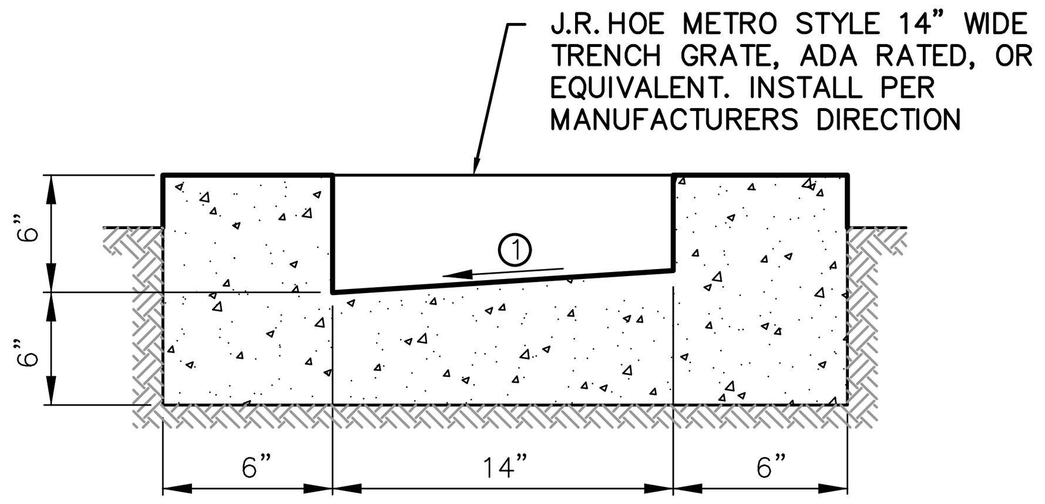
DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: CIVIL DETAILS

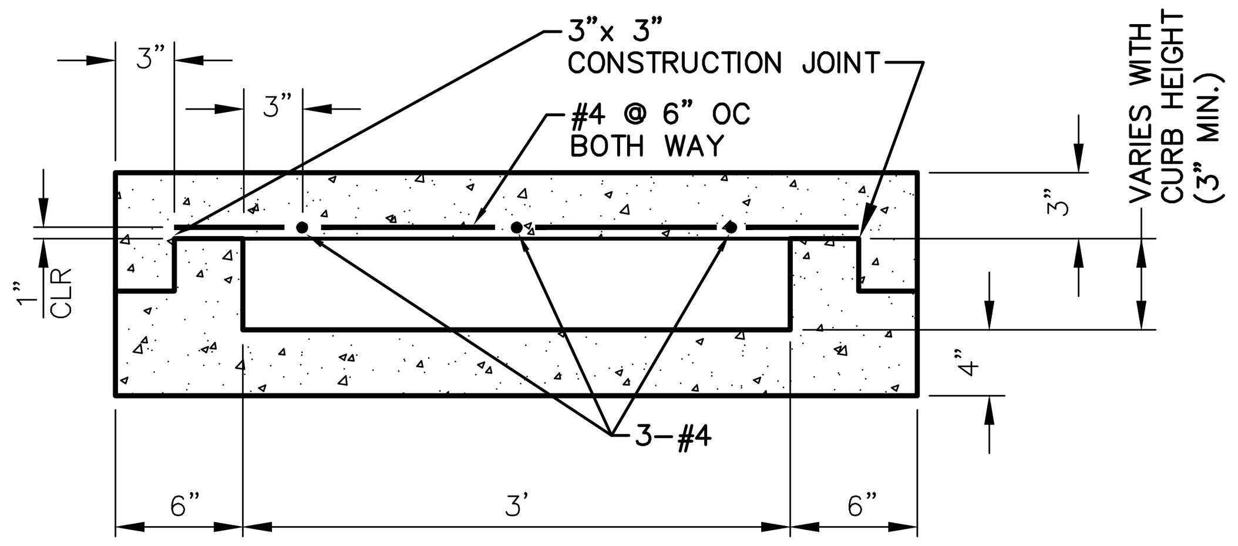
SHEET: 19 OF 145

BID DELIVERABLE

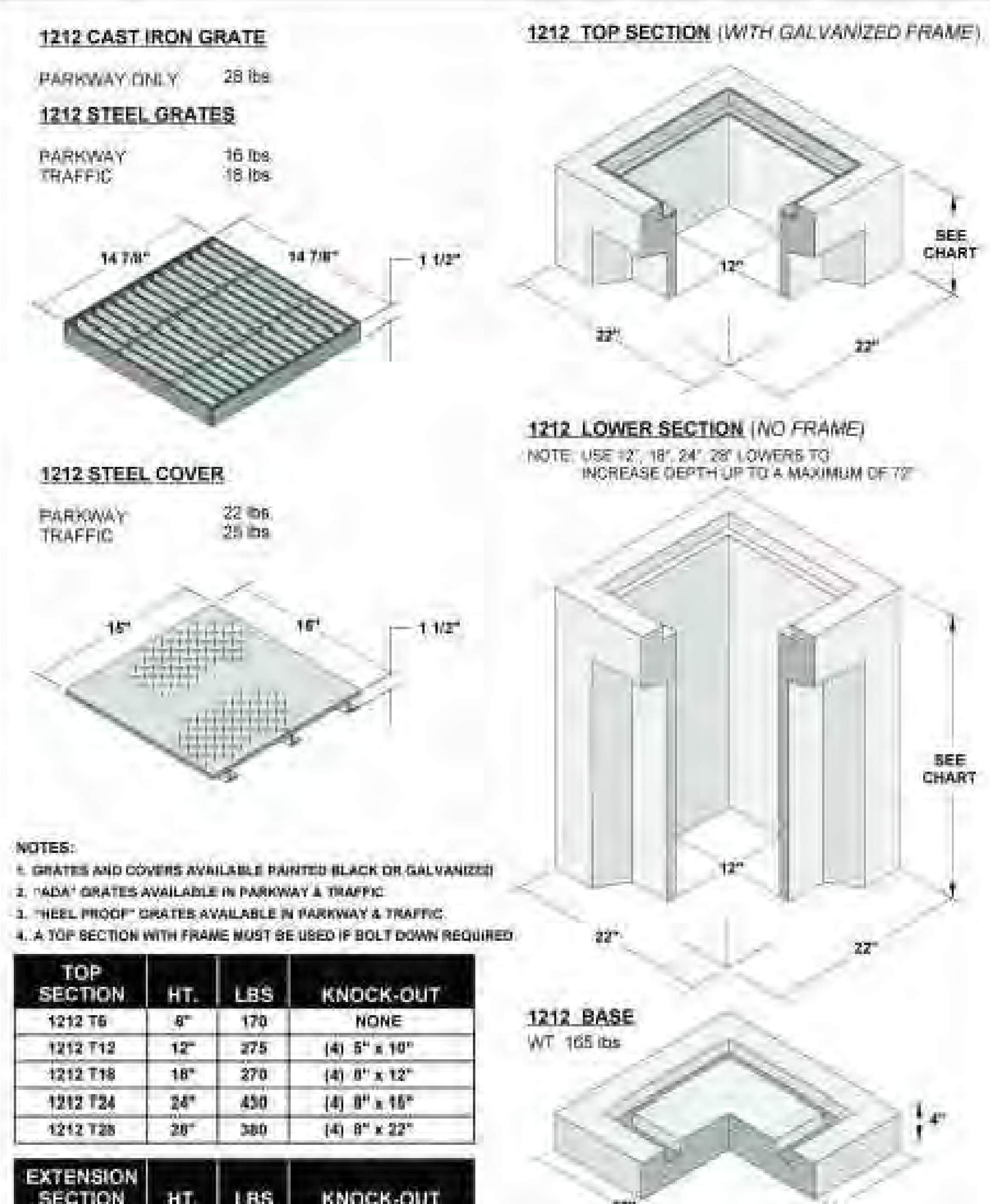


NOTE
1. SLOPE TO DRAIN TO ONE SIDE.
2. ALL EXPOSED METAL PARTS TO BE GALVANIZED. SCREWS TO BE STAINLESS STEEL GRADE 316.
3. 1 ½" X 1 ½" X ⅛" "L" FRAME WITH ⅛" X ½" STEEL STRIP WELDED TO FRAME.
4. CHECKERED PLATE SHALL BE GALVANIZED STEEL, MAXIMUM WIDTH 36".
5. FASTEN WITH ¼" COARSE-THREAD COUNTERSINK SCREWS. SCREWS SHALL BE STAINLESS STEEL GRADE 316.

SIDEWALK UNDER-DRAIN - GRATED COVER (28 / C6.9)
N.T.S.



SIDEWALK UNDER-DRAIN - CONCRETE COVER (29 / C6.9)
N.T.S.



NOTES:
1. GRATES AND COVERS AVAILABLE PAINTED BLACK OR GALVANIZED
2. "ADA" GRATES AVAILABLE IN PARKWAY & TRAFFIC
3. "HEEL PROOF" GRATES AVAILABLE IN PARKWAY & TRAFFIC
4. A TOP SECTION WITH FRAME MUST BE USED IF BOLT DOWN REQUIRED

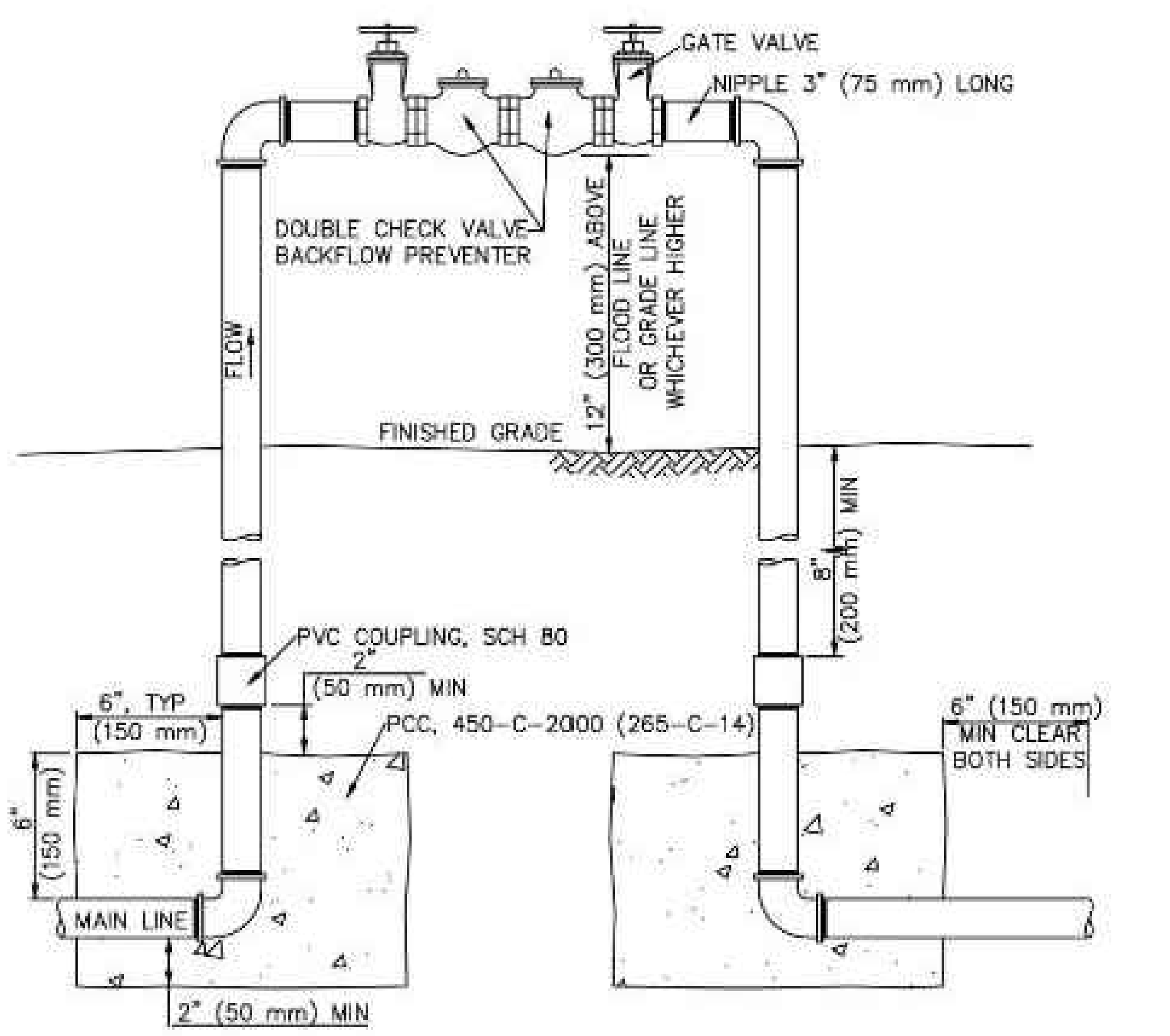
TOP SECTION	HT.	LBS	KNOCK-OUT
1212 T6	6"	170	NONE
1212 T12	12"	275	(4) 5" x 10"
1212 T18	18"	270	(4) 8" x 12"
1212 T24	24"	430	(4) 8" x 15"
1212 T28	28"	380	(4) 8" x 22"

EXTENSION SECTION	HT.	LBS	KNOCK-OUT
1212 E6	6"	170	NONE

LOWER SECTION	HT.	LBS	KNOCK-OUT
1212 L12	12"	275	(4) 5" x 10"
1212 L18	18"	270	(4) 8" x 12"
1212 L24	24"	430	(4) 8" x 15"
1212 L28	28"	380	(4) 8" x 22"

12" x 12" CATCH BASIN
04-20-95 | 02-14-20
JENSEN PRECAST
BROOKS 1212 CB

CATCH BASIN DETAIL (31 / C6.9)
N.T.S.



NOTES:
1. PIPE AND FITTINGS SHALL BE SCHEDULE 40 GALVANIZED STEEL UNLESS OTHERWISE NOTED.
2. DEVICES AND INSTALLATIONS SHALL COMPLY WITH LOCAL HEALTH AND WATER AGENCY REQUIREMENTS.
3. VALVE ASSEMBLIES MAY HAVE SCREWED OR FLANGED FITTINGS.
4. USE APPROVED PLASTIC TAPE 1/2" (12 mm) WIDE AT ALL THREADED CONNECTIONS. COAT EXPOSED THREADS WITH APPROVED RUST-INHIBITING SEALANT.
5. DISSIMILAR METALS SHALL BE SEPARATED BY AN APPROVED DIELECTRIC COUPLING.
6. PLASTIC PIPE SHALL NOT BE USED ABOVE FINISHED GRADE.

SYMBOL ON PLAN

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1954 REV. 1996, 2006, 2009
BACKFLOW PREVENTER ASSEMBLY DOUBLE CHECK TYPE
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STANDARD PLAN 511-3
SHEET 1 OF 1

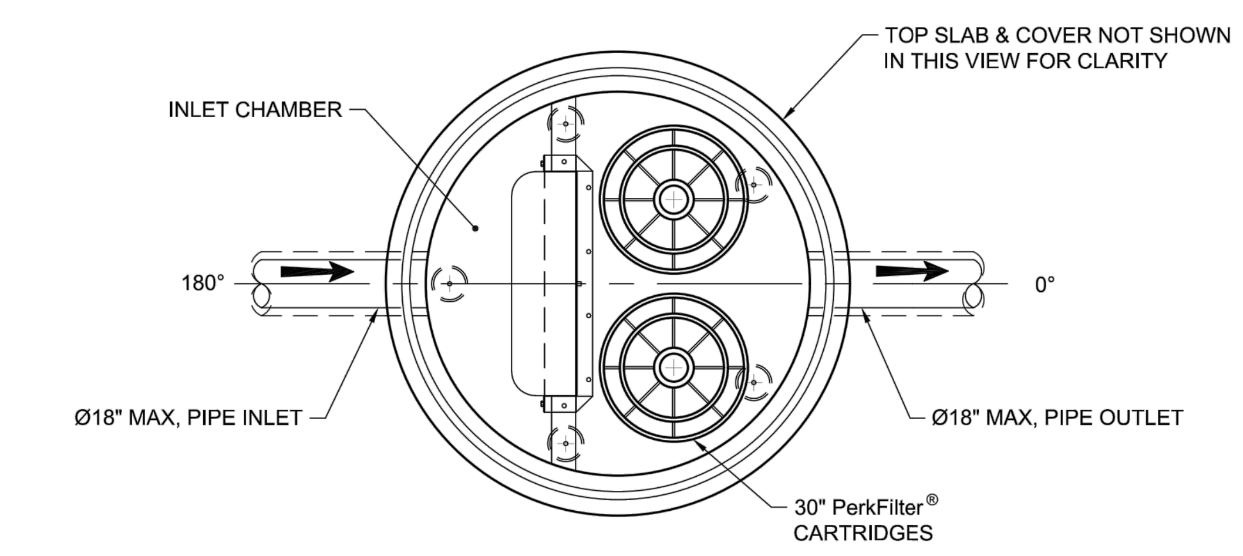
BACKFLOW PREVENTION DEVICE DETAIL (32 / C6.9)
N.T.S.

SITE SPECIFIC DATA				
Structure ID				-
Treatment Flow Rate (gpm/cfs)				-
Peak Flow Rate (cfs)				-
Cartridge Quantity				-
Rim Elevation				-
Pipe Data	Pipe Location	Pipe Size	Pipe Type	Invert Elevation
Inlet	-	-	-	-
Outlet	-	-	-	-
Notes: -				

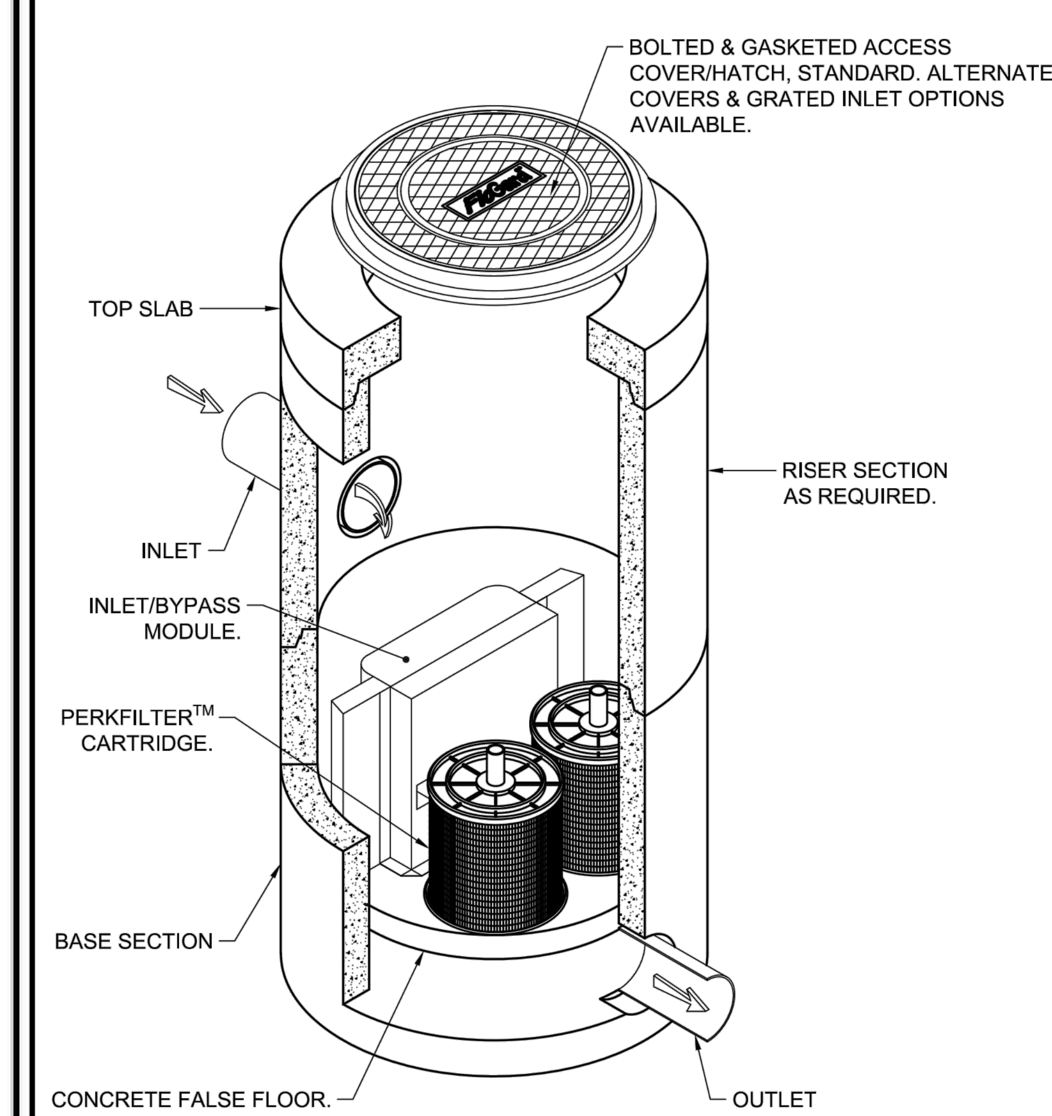
MINIMUM DEPTH	
Outlet Pipe Size	Minimum Rim to Outlet Depth
Ø6"	5.67'
Ø8"	5.92'
Ø10"	6.17'
Ø12"	6.42'
Ø15"	6.67'
Ø18"	6.92'

PERFORMANCE SPECIFICATIONS	
Peak Treatment Capacities: 1	
Max. Cartridge Quantity	2
NJDEP 80% Removal, 75 micron	68 gpm / 0.151 cfs
WA Ecology GULD - Basic & Phosphorus	34 gpm / 0.075 cfs
Max. Bypass Capacity	3.62 cfs

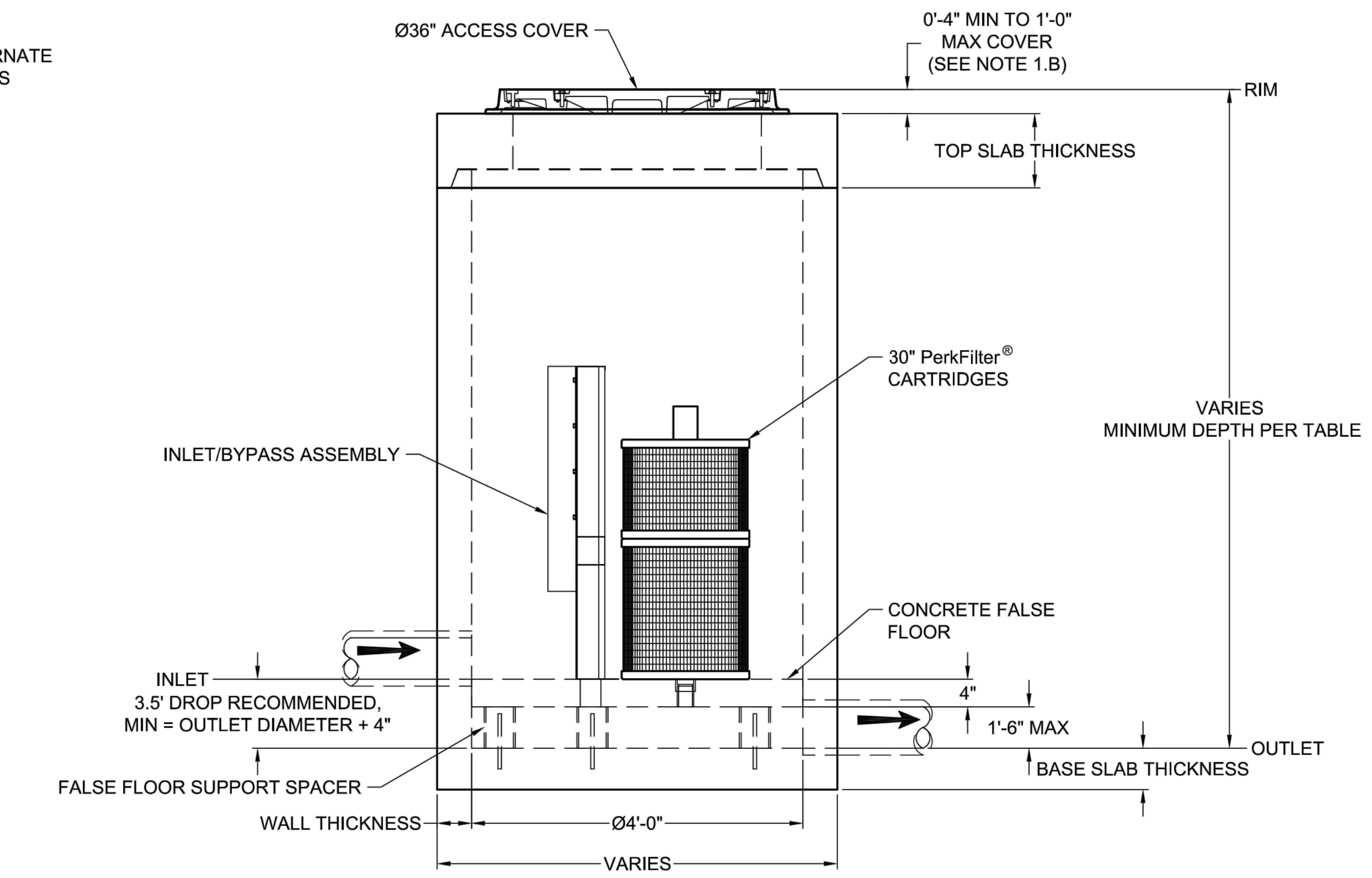
1. Contact Oldcastle for alternative treatment and peak flow capacities.



PLAN VIEW



ISOMETRIC VIEW



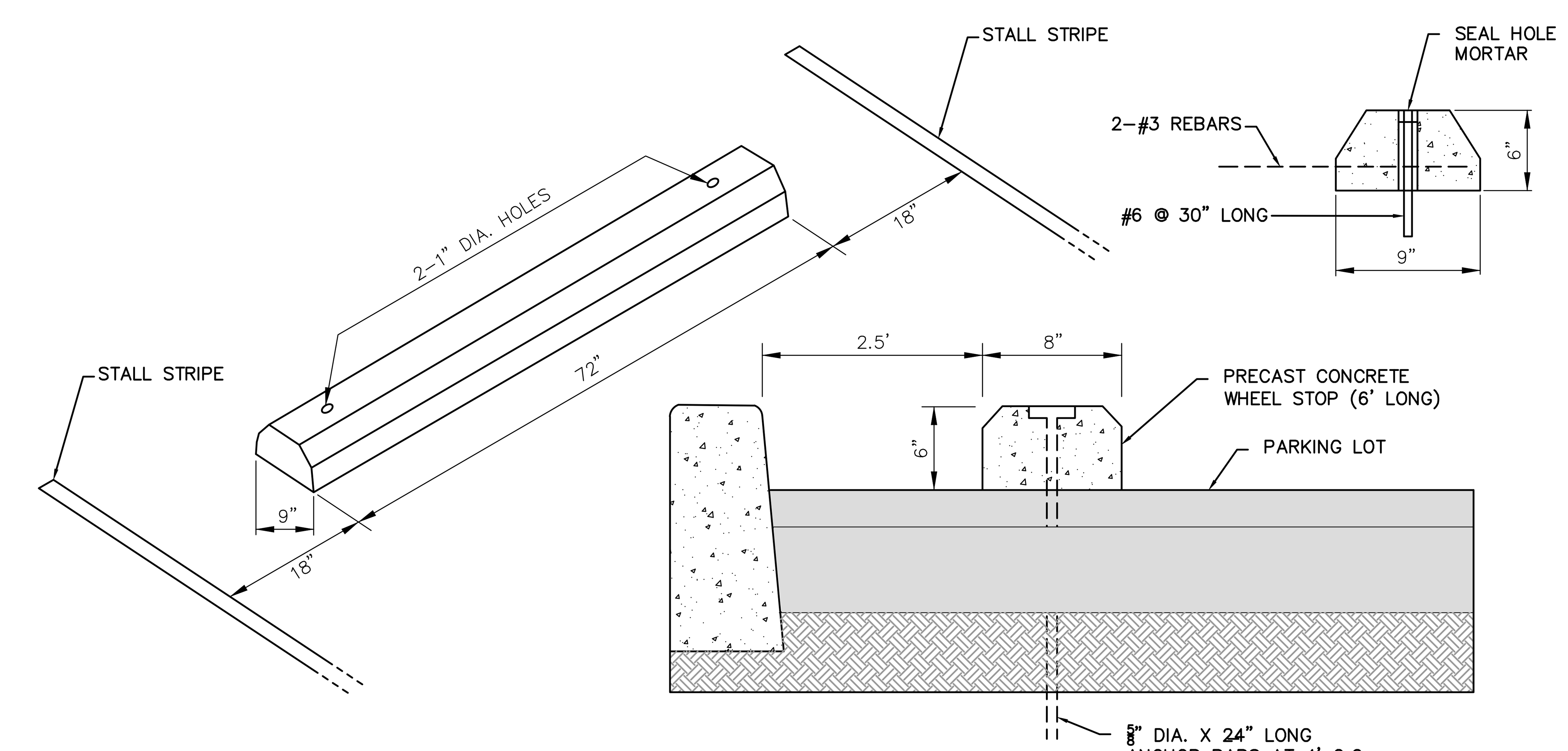
ELEVATION VIEW

NOTES:
1. DESIGN LOADINGS:
   A. AASHTO HS-20-44 (WITH IMPACT)
   B. DESIGN SOIL COVER: 1'-0" MAXIMUM
   C. ASSUMED WATER TABLE: BELOW INVERT.
   D. LATERAL EARTH PRESSURE: 45 PCF (DRAINED)
   E. LATERAL LIVE LOAD SURCHARGE: 80 PSF (APPLIED TO 8'-0" BELOW GRADE)
   F. NO LATERAL SURCHARGE FROM ADJACENT BUILDINGS, WALLS, PIERS, OR FOUNDATIONS.
2. CONCRETE 28-DAY MINIMUM COMPRESSIVE STRENGTH: 5,000 PSI MINIMUM.
3. REINFORCING: REBAR, ASTM A615/A706, GRADE 60
4. CEMENT: ASTM C150
5. REQUIRED ALLOWABLE SOIL BEARING CAPACITY: 2,500 PSF
6. REFERENCE STANDARD:
   A. ASTM C 478
   B. ASTM C 497
7. THIS STRUCTURE IS DESIGNED TO THE PARAMETERS NOTED HEREIN. ENGINEER-OF-RECORD SHALL VERIFY THAT NOTED PARAMETERS MEET OR EXCEED PROJECT REQUIREMENTS. IF DESIGN PARAMETERS ARE INCORRECT, REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE INFRASTRUCTURE UPON REVIEW OF THIS SUBMITTAL.
8. OVERSIZED HOLES TO ACCOMMODATE SPECIFIC PIPE TYPE MUST BE CONCENTRIC TO PIPE ID. AFTER PIPES ARE INSTALLED, ALL ANNULAR SPACES SHALL BE FILLED WITH A MINIMUM OF 3,000 PSI CONCRETE FOR FULL THICKNESS OF PRECAST WALLS. PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE.
9. CONTRACTOR RESPONSIBLE TO VERIFY ALL SIZES, LOCATIONS, AND ELEVATIONS OF OPENINGS.
10. CONTRACTOR RESPONSIBLE TO ENSURE ADEQUATE BEARING SURFACE IS PROVIDED (I.E. COMPACTED AND LEVEL PER PROJECT SPECIFICATIONS).
11. SECTION HEIGHTS, SLAB/WALL THICKNESSES, AND KEYWAYS ARE SUBJECT TO CHANGE AS REQUIRED FOR SITE REQUIREMENTS AND/OR DUE TO PRODUCT AVAILABILITY AND PRODUCTION FACILITY CONSTRAINTS.
12. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT OLDCASTLE INFRASTRUCTURE.
13. MAXIMUM PICK WEIGHTS:
   A. TOP SLAB: XX,XXX LBS
   B. RISER: XX,XXX LBS
   C. BASE: XX,XXX LBS* (* COMBINED WEIGHT OF BASE INCLUDES FALSE FLOOR, AND PRODUCT INTERNALS.)
14. INTERNALS SHALL CONSIST OF CARTRIDGES, INLET/BYPASS ASSEMBLIES, FALSE FLOOR AND FALSE FLOOR SUPPORT SPACERS.

Oldcastle Infrastructure™ A CRH COMPANY
Ph: 800.579.8819 | www.oldcastleinfrastructure.com/stormwater

PerkFilter® Manhole (STANDARD)
Ø48" with 30" Cartridges
CUSTOMER -
PROJECT NAME -
SHEET NAME: Specifier Drawing PFMH-48-30 | REVISION - | SHEET 1 OF 1

48" DIAMETER PERKFILTER MANHOLE DETAILS (30 / C6.9)
N.T.S.



WHEEL STOP DETAIL (33 / C6.9)
N.T.S.

C6.9

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE
SEAL:
APPROVED BY: ICTC ENGINEER DATE

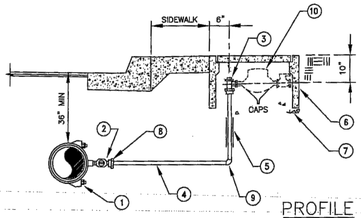
ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
02/01/24
JAMES S. BLISS, P.E. DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 47795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER
SHEET TITLE: CIVIL DETAILS
SHEET: 20 OF 145
BID DELIVERABLE

Plotted -- 2/1/2024 12:04:43 PM :: Saved -- 10/9/2023 3:37:30 PM :: S:\5IMP010100\CADD\Design\Sheets\5IMP010100-C6.0-6.9-DETAILS.dwg :: chase.lawson



PROFILE

CONSTRUCTION NOTES

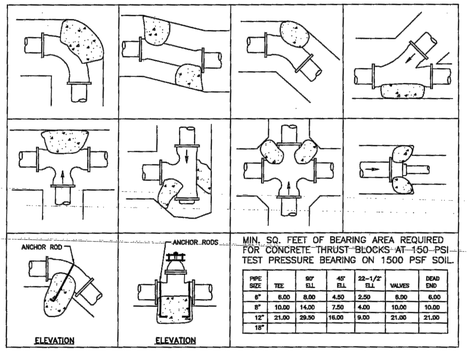
1. SERVICE SADDLE SHALL NOT BE INSTALLED WITHIN 18" OF VALVE, JOINT OR FITTING. USE SINGLE STRAP UP TO 12" MAIN SIZE. USE DUCTILE IRON TAPPED TEE FOR PVC SIZES 14" THRU 24".
2. INSTALL CORPORATION STOP WITH KEY SIDEWAYS IN OPEN POSITION, AT SPRING LINE OF THE MAIN.
3. SET TOP OF METER BOX FLUSH WITH SIDEWALK OR CURB AS SHOWN ON DRAWING W-48
4. THE CORPORATION STOP TAP SHALL BE MADE AS SPECIFIED BY THE PIPE MANUFACTURER'S INSTALLATION GUIDE. ALL TAPS SHALL BE MADE WITH MACHINE GUIDE OR PILOT TAP. PVC TAPS SHALL BE MADE WITH PROPER SHELL CUTTER.
5. THE WATER SERVICE SHALL EXTEND PERPENDICULAR TO THE CENTERLINE OF THE STREET FROM THE WATER MAIN TO THE METER STOP AND SHALL HAVE A MINIMUM OF 30" COVER.
6. SPLICES OF COPPER TUBING SHALL NOT BE ALLOWED, EXCEPT AS APPROVED BY THE DISTRICT ENGINEER.
7. POLY-SLEEVE COLORS REQUIRED BLUE = POTABLE WATER SERVICE
8. SEE APPROVED MATERIAL LIST.
9. DUCTILE IRON, CAST IRON AND STEEL COMPONENTS SHALL BE COATED OR WRAPPED PER PROJECT SPECIFICATIONS.
10. LETTER "W" SHALL BE STAMPED OR CHISLED IN TOP OF CURB OVER THE SERVICE NOT LESS THAN 1-1/2" HIGH AND 3/16" DEEP.

ITEM # SIZE & DESCRIPTION

1. SINGLE WIDE ALL BRONZE SERVICE SADDLE W/2" I.P. OUTLET THRU 12" PVC
1. DUCTILE IRON TAPPED TEE W/2 1/2" I.P. OUTLET FOR 14" THRU 24" PVC WITH NYLON BUSHING
2. 2" CORPORATION STOP-M.I.P. x COMPRESSION
3. 2" ANGLE METER STOP-LOCKWING-FLANGED
4. 2" COPPER TUBING - K SOFT
5. 2" POLY-SLEEVE - 6 MIL
6. METER BOX 2" BROOK E PRODUCTS NO. 66 TR OR EQUAL.
7. 6" BASE OF 3/8" ROCK
8. 2" COPPER ADAPTOR M.I.P. x SWEAT OR COMPRESSION
9. 2" COPPER ELL 90 SWEAT
10. FUTURE METER

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA	2" COPPER SERVICE INSTALLATION NOT TO SCALE	DATE: 08/06/03 DRAWN: O. Espinoza CHECKED: F. Fiorenza DWG No. Gateway-115

WATER SERVICE 34 C6.10
N.T.S.



MIN. SQ. FEET OF BEARING AREA REQUIRED FOR CONCRETE THRUST BLOCKS AT 150 PSI TEST PRESSURE BEARING ON 1500 PSF SOIL.

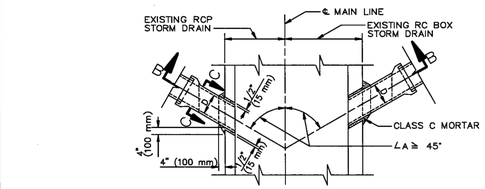
PIPE SIZE	TEE	90° ELL	45° ELL	22-1/2° ELL	VALVES	DEAD END
6"	6.00	8.00	4.00	2.50	8.00	8.00
8"	10.00	14.00	7.50	4.00	10.00	10.00
12"	21.00	29.50	16.00	9.00	21.00	21.00
18"						

NOTES:

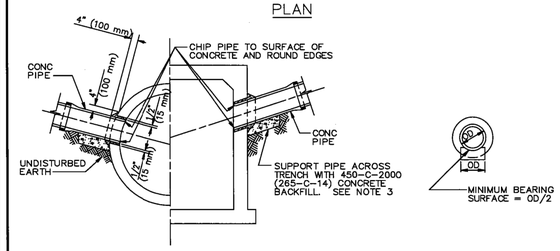
1. ALL PRESSURE PIPE TO BE INSTALLED ACCORDING TO THESE DETAILS UNLESS NOTED OR DETAILED.
2. THE PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE CLASS "C" 2000 PSI CONCRETE.
3. ALL ANCHOR RODS SHALL BE GALVANIZED STEEL, 1/2" DIAMETER MINIMUM, WRAPPED AROUND PIPE. MEGA-LUGS SHALL BE USED IN ADDITION TO TIE DOWN STRAPS.
4. THRUST BLOCKS SHALL BE USED FOR PLASTIC PIPES WITH A 3" DIAMETER OR LARGER AND AT THE END OF ALL MAINS.
5. FLOW DIRECTION SHOWN BY →
6. ALL VIEWS ARE PLAN UNLESS NOTED OTHERWISE.
7. ALL CONCRETE THRUST BLOCKS TO BEAR ON UNDISTURBED SOIL IN EACH DIRECTION OF THRUST.
8. TRENCH TO BE BACKFILLED AT 90% COMPACTION TESTED RANDOMLY.
9. MEGA-LUG ADAPTERS MAY BE USED IN ADDITION TO THRUST BLOCKS OF REDUCED SIZE, UPON WRITTEN APPROVAL OF THE ENGINEER. APPROVAL MUST BE OBTAINED PRIOR TO CONSTRUCTION. THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT DEVICES.
10. DUCTILE IRON, CAST IRON AND STEEL COMPONENTS SHALL BE WRAPPED PER PROJECT SPECIFICATIONS.
11. CONTRACTOR SHALL ADJUST BEARING AREA FOR SOIL CONDITIONS AND PROJECT-TEST PRESSURE AND SHALL OBTAIN APPROVAL OF BEARING AREA CALCULATIONS PRIOR TO PLACING THRUST BLOCKS.
12. SEE ALSO GATEWAY STD. DWGS. 105 & 110

IMPERIAL COUNTY PUBLIC WORKS DEPARTMENT EL CENTRO, CALIFORNIA	THRUST BLOCKS NOT TO SCALE	DATE: 08/06/03 DRAWN: O. Espinoza CHECKED: F. Fiorenza DWG No. Gateway-100

THRUST BLOCKS 36 C6.10
N.T.S.

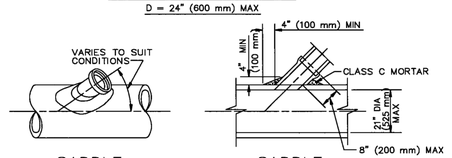


PLAN



SECTION B-B SECTION C-C

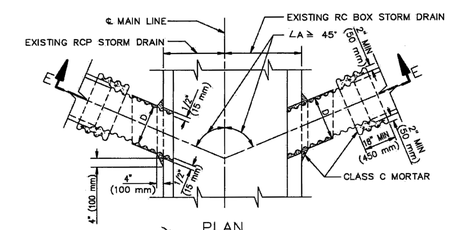
CASE 1
PLAIN CONCRETE PIPE
D = 24" (600 mm) MAX



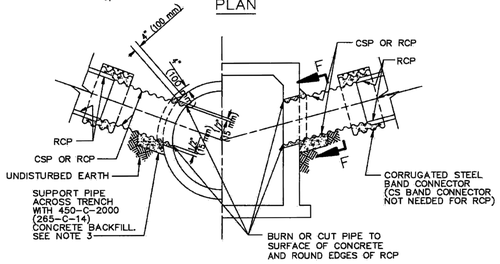
SADDLE PLAN SADDLE SECTION

CASE 2
SADDLE CONNECTION

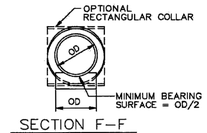
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1994 REV. 1994, 2009	PIPE CONNECTIONS TO EXISTING STORM DRAINS USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 335-2 SHEET 1 OF 3



PLAN



SECTION E-E



SECTION F-F

DIAMETER OF CSP	MIN GAGE
15" (375 mm) - 21" (525 mm)	16
24" (600 mm)	14

CASE 3
RCP OR CSP
D = 24" (600 mm) MAX

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
PIPE CONNECTIONS TO EXISTING STORM DRAINS	335-2 SHEET 2 OF 3

NOTES

CASE 1 AND CASE 3

1. OUTSIDE DIAMETER OF THE CONNECTOR PIPE SHALL NOT BE GREATER THAN 1/2 THE INSIDE DIAMETER OF THE RCP MAIN LINE.
2. INSIDE DIAMETER D OF THE CONNECTOR PIPE SHALL NOT BE GREATER THAN 24" (600 mm).
3. THE MINIMUM OPENING INTO THE EXISTING STORM DRAIN SHALL BE THE OUTSIDE DIAMETER OF THE CONNECTING PIPE PLUS 1" (30 mm). THE CONCRETE BACKFILL SUPPORTING THE CONNECTING PIPE MAY BE OMITTED IF THE PIPE IS LAID ON UNDISTURBED EARTH TO STORM DRAIN WALL.
4. ALL CSP AND FITTINGS SHALL BE GALVANIZED. BAND CONNECTORS MAY BE 2 GAGES LIGHTER THAN THE PIPE, BUT WITH A MINIMUM GAGE OF 16. THEY SHALL BE CONNECTED AT THE ENDS BY ANGLES HAVING MINIMUM DIMENSIONS OF 2"x2"x3/16" (50 mm x 50 mm x 5 mm) AND 5 1/2" (140 mm) BOLTS.
5. WHEN JOINING A RCP CONNECTOR PIPE TO A CSP CONNECTOR PIPE, THE INSIDE DIAMETER D OF THE CSP SHALL BE AT LEAST EQUAL TO BUT NOT MORE THAN 3" (75 mm) GREATER THAN THAT OF THE RCP.
6. CONNECTOR PIPES SHALL BE NOT MORE THAN 5' (1.5 m) ABOVE THE INVERT.
7. CONNECTOR PIPES SHALL ENTER MAIN LINE RCP RADIALLY.
8. WHEN CONNECTING TO A RCB, SPPWC 333 SHALL BE USED IF THE TOP OF THE CONNECTOR PIPE IS LESS THAN 12" (300 mm) BELOW THE SOFFIT OF THE RCB OR THE FLOW LINE OF THE PIPE IS LESS THAN 13" (330 mm) ABOVE THE FLOOR OF THE RCB AT THE INSIDE FACE.

CASE 2

9. SADDLE CONNECTIONS SHALL BE USED WHEN CONNECTING TO PIPES 21" (525 mm) OR LESS IN DIAMETER WITHOUT THE USE OF JUNCTION STRUCTURES OR PRECAST Y BRANCHES.
10. TRIM OR CUT SADDLE TO FIT SNUGLY OVER THE OUTSIDE OF THE MAIN PIPE SO ITS AXIS WILL BE ON THE LINE AND GRADE OF THE CONNECTING PIPE.
11. THE OPENING INTO THE PIPE SHALL BE CUT AND TRIMMED TO FIT THE SADDLE SO THAT NO PART WILL PROJECT WITHIN THE BORE OF THE SADDLE PIPE.
12. THE CONNECTOR PIPE SHALL BE SUPPORTED AS SHOWN IN CASE 1 AND CASE 3.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
PIPE CONNECTIONS TO EXISTING STORM DRAINS	335-2 SHEET 3 OF 3

PIPE CONNECTION TO EXISTING STORM DRAIN DETAILS 35 C6.10
N.T.S.

C6.10

NO.	BY:	REVISION COMMENTS

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JAMES S. BLISS, P.E. 02/01/24 DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 41795 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: CIVIL DETAILS

SHEET: 21 OF 145

BID DELIVERABLE

ARCHITECTURAL DRAWING LIST

PROJECT SCOPE OF WORK

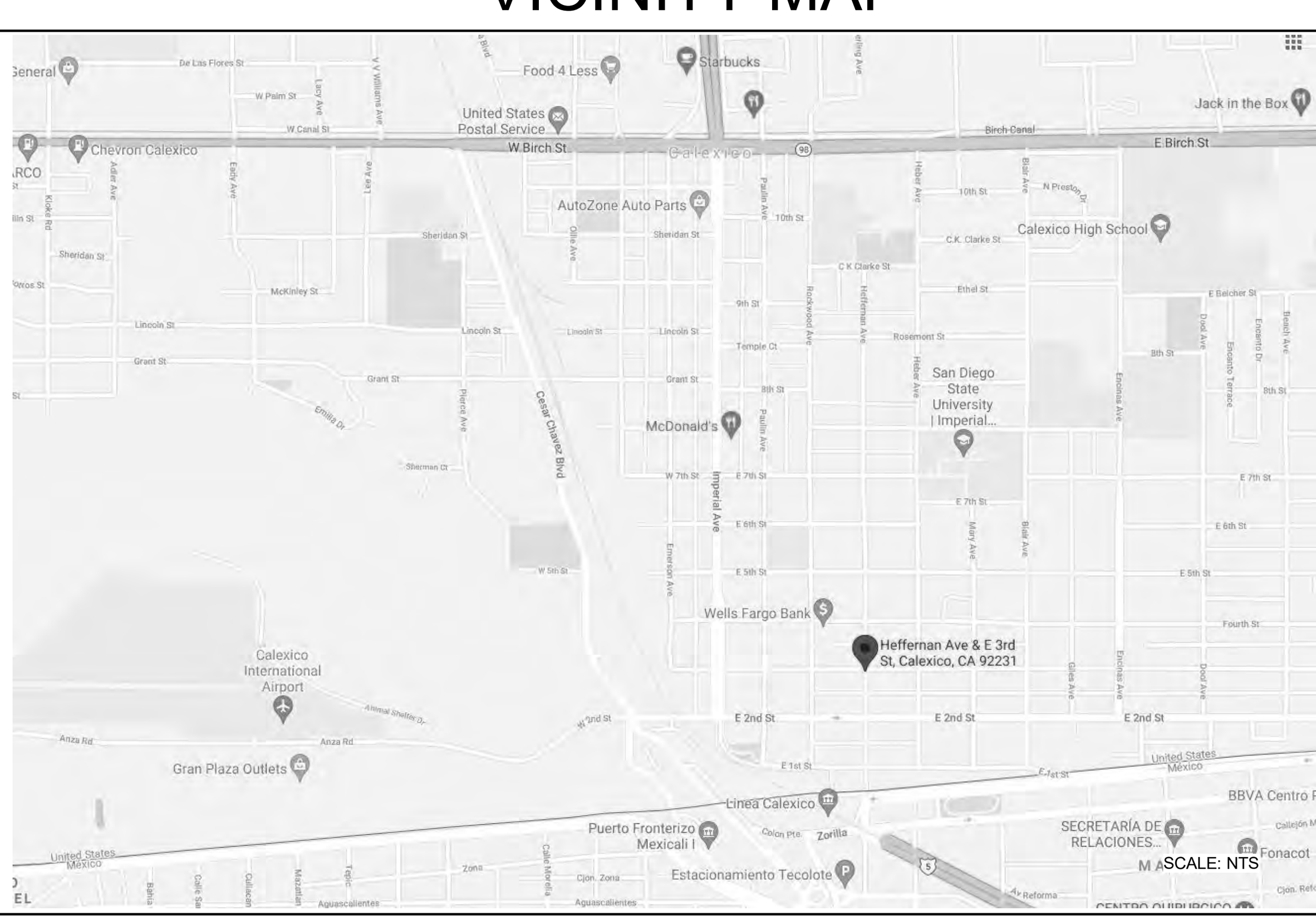
NEW INTERMODAL TRANSPORTATION CENTER FOR IMPERIAL COUNTY TRANSPORTATION COMMISSION (ICTC). THE PROPOSED TRANSPORTATION CENTER IS PLANNED TO INCLUDE A SINGLE-STORY TICKET BOOTH, BUS DRIVER BREAK ROOM, AND TOILETS THAT IS APPROXIMATELY 1,175 SQUARE FEET, TRELLIS, SHADE CANOPY NEAR BUILDING, AND (4) CANOPY AT BUS STOPPING AREA.

THE PROJECT IS LOCATED AT THE SOUTHWEST CORNER OF THE THIRD STREET AND HEFFERNAN AVENUE INTERSECTION (APN 058-484-001, APN 058-484-002, AND APN 058-484-003). THE PROJECT IS LOCATED IN DOWNTOWN CALEXICO IN THE VICINITY OF THE CENTER OF THE CITY. THE PROJECT SITE IS BOUND ON THE SOUTH BY A SERVICE ALLEY ACROSS WHICH EXISTING BUSINESSES EXIST.

PROJECT GENERAL NOTES

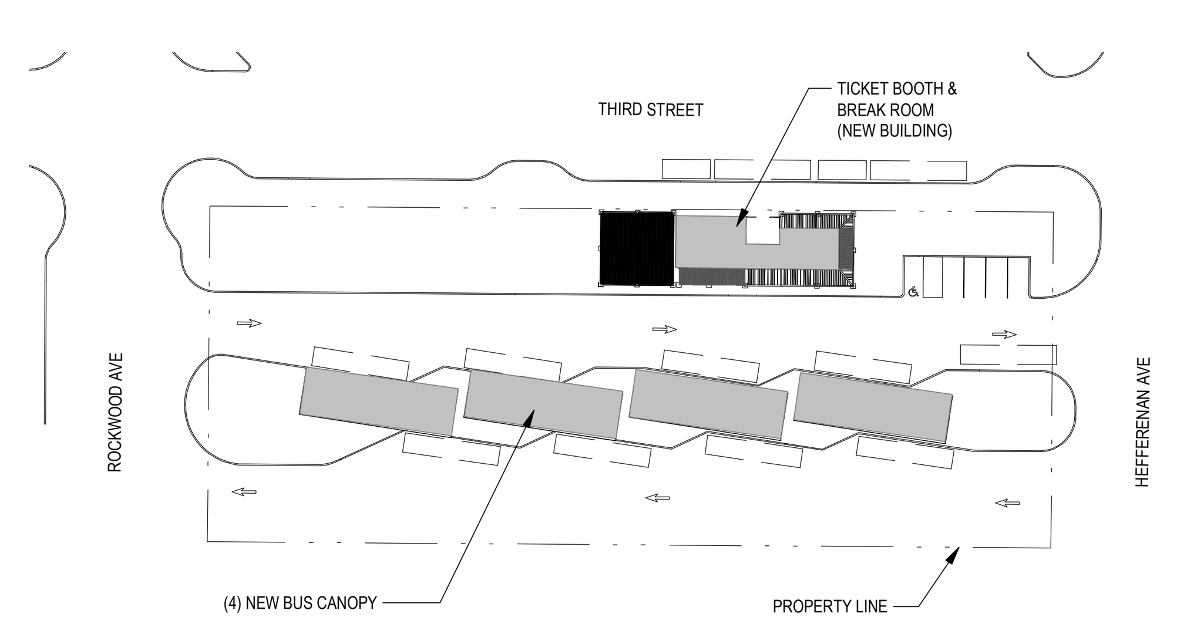
1	THE FOLLOWING GENERAL NOTES APPLY TO THE ENTIRE SET OF DRAWINGS AND ARE NOT SPECIFIC TO ANY ONE DISCIPLINE.
2	IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS WITH REQUIREMENTS OF THE CONTRACT BEFORE COMMENCING CONSTRUCTION, AND ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
3	THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE CROSS REFERENCE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR.
4	THE DRAWINGS AND SPECIFICATIONS ESTABLISH MINIMUM REQUIREMENTS FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.
5	ARCHITECT IS NOT RESPONSIBLE FOR ACCURACY OF EXISTING CONDITIONS SHOWN IN THESE DOCUMENTS. GC SHALL CONTACT ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES OCCUR IN THE FIELD.
6	THE CONTRACTOR SHALL IDENTIFY AND NOTIFY IN WRITING TO THE ARCHITECT CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES, AND DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND OWNER PRIOR TO PROCEEDING.
7	THE GENERAL NOTES, SYMBOLS AND DEFINITIONS APPLICABLE TO EACH DISCIPLINE CAN BE FOUND AT THE FRONT OF EACH DISCIPLINE'S SET OF DRAWINGS AND IS LISTED AS PART OF THE OVERALL PROJECT INDEX OF DRAWINGS.
8	BASIC FIRE PROTECTION AND EXITING CONCEPTS ARE ILLUSTRATED BY THE LIFE SAFETY AND CODE PLANS ON THE 'G' SERIES SHEETS. THE CONTRACTOR SHALL BE FAMILIAR WITH REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH REFERENCED FIRE RATED ASSEMBLY TESTS AND STANDARDS.
9	THE ARCHITECTURAL DRAWINGS ESTABLISH, COORDINATE, AS WELL AS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES.
10	THE DRAWINGS MAY MAKE REFERENCE TO AND/OR ILLUSTRATE ITEMS WHICH ARE NOT PART OF THE WORK OF THE CONTRACT. THESE 'NOT IN CONTRACT' ITEMS AS INDICATED ARE REFERENCED AND/OR ILLUSTRATED FOR THE CONTRACTORS REFERENCE, INFORMATION AND COORDINATION ONLY.
11	THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL APPLICABLE LAWS, CODES, REGULATIONS AND ORDINANCES OF THE PLACE (CITY, COUNTY,DISTRICT, AND STATE) WHERE THE PROJECT IS LOCATED.
12	THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND SIMILAR RELEASES REQUIRED FOR THE CONSTRUCTION AND OCCUPANCY OF THE PROJECT. THE CONTRACTOR SHALL FURNISH COPIES OF ALL SUCH ITEMS TO THE OWNER AND ARCHITECT WITHIN 10 DAYS OF RECEIPT OF SUCH ITEMS. IF PERMITS ARE ISSUED SUBJECT TO CERTAIN CONDITIONS OR REVISIONS TO THE WORK OR IF PERMITS ARE DELAYED FOR ANY REASON, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND ARCHITECT.
13	THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED INSPECTIONS OF WORK, INCLUDING THAT PERFORMED BY OWNER. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF INSPECTIONS.
14	THE CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN AND PROTECT NEW WORK AS WELL AS EXISTING SYSTEMS AND ELEMENTS WHICH ARE TO REMAIN. ANY DAMAGE TO SUCH SYSTEMS AND ELEMENTS SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE ARCHITECT. IF SATISFACTORY REPAIRS CANNOT BE MADE, THE CONTRACTOR SHALL REPLACE SYSTEMS AND ELEMENTS WITH NEW PRODUCTS ACCEPTABLE TO THE ARCHITECT. ALL REPAIRS AND REPLACEMENT COSTS SHALL BE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.
15	THE CONTRACTOR SHALL COORDINATE ALL WORK WITH APPLICABLE UTILITY PROVIDERS.
16	THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL CHASE SIZES WITH MECHANICAL SUB-CONTRACTOR AND NOTIFY ARCHITECT WITH DISCREPANCIES IN THE FIELD.
17	THE DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS. DRAWINGS OR PORTIONS THEREOF USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO THE CONTRACTOR WITHOUT THE APPROVAL OF THE ARCHITECT.
18	THE CONTRACTOR SHALL PROVIDE AND COORDINATE ALL BLOCK-OUTS, SLEEVES, INSERTS, BOLTS, PLATES, ETC. FOR ALL TRADES PRIOR TO PLACING CONCRETE OR MASONRY.
19	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS AND SEQUENCES OF CONSTRUCTION.
20	THE CONTRACTOR SHALL PROMPTLY REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER FOR DETAILS RELATED TO ALL SITE ACCESS AND REMOVAL PLANS.
21	THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
22	EACH INSTALLER SHALL EXAMINE THE SUBSTRATE CONDITION AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY ADVISE THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION OF PRODUCTS SHALL SIGNIFY ACCEPTANCE BY THE INSTALLER OF THE SUBSTRATE CONDITIONS.
23	THE CONTRACTOR SHALL MAINTAIN A CURRENT/UPDATED RECORD OF DRAWINGS ON SITE AT ALL TIMES.
24	FOR THE PURPOSE OF PRICING/ESTIMATES, WHEN THERE IS A CONFLICT/DISCREPANCY IN THE DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL PRICE THE HIGHER COST ITEM.
25	CONTRACTOR AND SUBCONTRACTOR SHALL NOT SCALE CONSTRUCTION DOCUMENTS.
26	ALL FINISH MATERIALS SHALL CONFORM TO C.B.C. FOR FLAME SPREAD AND SMOKE DEVELOPMENT, REFER TO SPECIFIC MATERIAL SPECIFICATION SECTION FOR ADDITIONAL REQUIREMENTS.
27	THE CONTRACTOR SHALL COORDINATE INFORMATION THAT IS PART OF ONE OR MORE SEPARATE BID PACKAGES WITH ADDITIONAL INFORMATION ISSUED IN THE BID PACKAGE. THE MULTIPLE BID PACKAGES SHALL CONSTITUTE A COMPLETE PROJECT.
28	THE CONTRACTOR SHALL COORDINATE ALL LOCATIONS AND SIZES OF HOUSEKEEPING PADS WITH MECHANICAL AND ELECTRICAL SUB-CONTRACTORS.
29	TOUCH UP FIREPROOFING AT SUPPORT BEAMS/TRUSSES AS REQUIRED TO MEET FIRE PROOFING REQUIREMENTS.
30	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A DUST BARRIER AT EXISTING BUILDING FACILITIES THROUGHOUT CONSTRUCTION.
31	THE CONTRACTOR SHALL PROTECT ALL EXISTING BUILDING ELEMENTS.
32	THE CONTRACTOR SHALL COORDINATE SCHEDULE AND PHASING WITH OWNER AND KEEP DISRUPTION OF EXISTING OPERATIONS TO A MINIMUM.

VICINITY MAP



SCALE: NTS

PROJECT SITE



SCALE: 1" = 80'-0"

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CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
GENERAL NOTES & SHEET INDEX

A-001

SHEET: 22 OF 145

BID DELIVERABLE

ABBREVIATIONS

AB	ANCHOR BOLT
ACT	ACOUSTICAL TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE NO.
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AOW	AREA OF WORK
APPD	APPROVED
APPROX	APPROXIMATELY
ARCH	ARCHITECT
ASSY	ASSEMBLY
AUTO	AUTOMATIC/AUTOMATION
AVG	AVERAGE
AWI	AMERICAN WOODWORKING INSTITUTE
AWT	ACCOUSTICAL WALL TREATMENT
B/B	BACK TO BACK
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BLST	BALLAST
BM	BEAM/BENCH MARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
C / C	CENTER TO CENTER
CAB	CABINET
CB	CATCH BASIN
CBB	CEMEMTITOUS BACKER BOARD
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CER	CERAMIC
CF	CUBIC FOOT / FEET
CF/CI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/OWNER INSTALLED
CFLG	COUNTER FLASHING
CFMF	COLD FORMED METAL FRAMING
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT / CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CLT	CLEAT
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUE / CONTINUATION / CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
COP	COPING
CORR	CORRIDOR
CPT	CARPET
CSK	COUNTER SUNK
CT	CERAMIC TILE
CTR	CENTER
CU FT	CUBIC FOOT / CUBIC FEET
CU YD	CUBIC YARDS
CW	COLD WATER
D	DEPTH / DEEP
DBL	DOUBLE
DEG	DEGREE
DEL	DELETE
DEMO	DEMOLITION
DET	DETAIL
DETN	DETENTION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DMPF	DAMPPROOFING
DN	DOWN
DR	DOOR / DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	REFERENCE ELEVATION
EL	EASEMENT LINE
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR / ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER / ENGINEERING
EOS	EDGE OF SLAB
EPDM	ETHYLENE PROPYLENE DIENE MONOMOR
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT

ABBREVIATIONS

EST	ESTIMATE
ETC	ET CETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPOSED / EXPAND / EXPANSION
EXT	EXTERIOR / EXTERNAL / EXTINGUISHER
F / F	FACE TO FACE
F F EL	FINISHED FLOOR ELEVATION
F&W	FUEL & WASH
FA	FIRE ALARM / FACE AREA / FRESH AREA
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDTN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE CABINET
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF INSUL	FOIL BACKED INSULATION
FH	FIRE HYDRANT / FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN GR	FINISHED GRADE
FIXT	FIXTURE
FL	FLOW LINE / FLOOR LINE
FLR	FLOOR / FLOORING
FLUOR	FLUORESCENT
FR	FRAME / FIRE RATED / FIRE RETARTANT
FT	FOOT / FEET / FIRE TREATED / FULLY TEMPERED
FTG	FOOTING
FURG	FURRING
FURN	FURNISH / FURNITURE
FUT	FUTURE
FVC	FIRE VALVE CABINET
GA	GAGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERAL / GENERATOR
GI	GALVANIZED IRON
GL	GLASS / GROUND LEVEL
GLZ	GLAZING
GND	GROUND
GYP BD	GYPSUM BOARD
GYP SHTG	GYPSUM SHEATHING BOARD.
HC	HANDICAPPED ACCESSIBLE / HOLLOW CORE
HD	HEAD / HEAVY DUTY
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT / HORSEPOWER / HIGH PRESSURE
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
ID	INSIDE DIAMETER / INTERIOR DESIGN
IF	INSIDE FACE / INTAKE FAN
IN	INCHES
INCAND	INCANDESCENT
INCL	INCLUDING
INSTL	INSTALL
INSUL	INSULATE / INSULATION
INT	INTERIOR / INTERNAL
INV	INVERT
INV EL	INVERT ELEVATION
J BOX	JUNCTION BOX
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LH	LEFT HAND
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LPT	LOW POINT
LT	LIGHT
LTG	LIGHTING
LVR	LOUVER
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFG	MANUFACTURING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	METAL LATH
MO	MASONRY OPENING
MOD BIT	MODIFIED BITUMEN
MR	MOISTURE RESISTANT
MS	MOP SINK
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	NORTH
N/A	NOT APPLICABLE

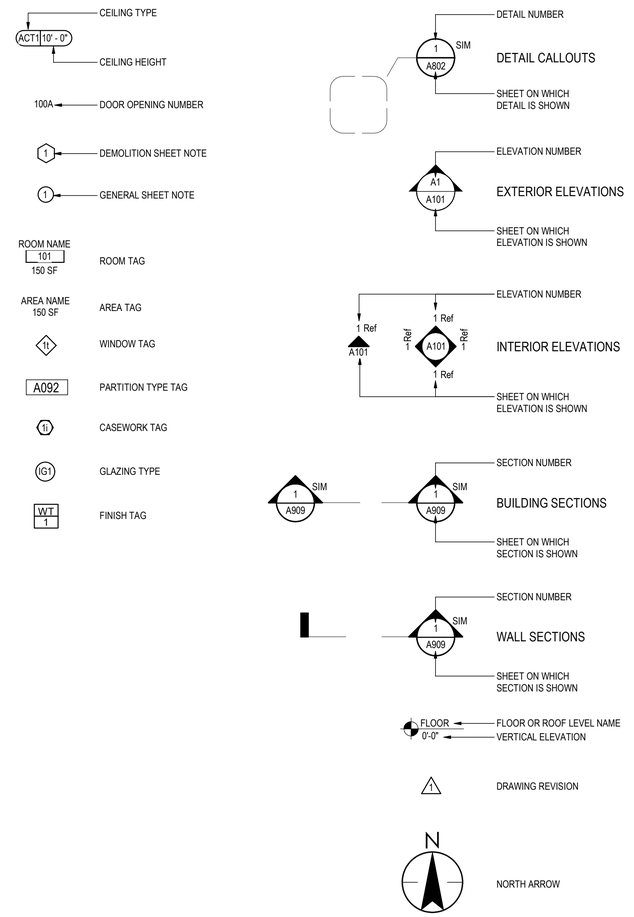
ABBREVIATIONS

NCOMBL	NONCOMBUSTIBLE
NEG	NEGATIVE
NIC	NOT IN CONTACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/O	OUT TO OUT
OA	OVERALL / OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER / OUTSIDE DIMENSION
OF	OUTSIDE FACE
OF/CI	OWNER FURNISHED/CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/OWNER INSTALLED
OFF	OFFICE
OH	OPPOSITE HAND / OVERHEAD / OVERHANG
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
ORIG	ORIGINAL
ORN	ORNAMENTAL
ORS	OVERFLOW ROOF SCUPPER
PAT	PATTERN
PBD	PARTICLE BOARD
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERM	PERMANENT
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER / PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
POT	PATH OF TRAVEL
PR	PAIR / PIPE RAIL
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PRELIM	PRELIMINARY
PREP	PREPARATION
PROJ	PROJECT
PT	PAINT / PRESSURE TREATED
PT CONC	POST TENSION CONCRETE
PTD	PAINTED / PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE / RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCED STEEL BAR
REC	RECESSED
REF	REFERENCE / REFRIGERATOR
REINF	REINFORCED / REINFORCEMENT
REM	REMOVE
REQD	REQUIRED
REV	REVISION
RGD INS	RIGID INSULATION
RH	RIGHT HAND
RL	ROOF LEADER
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	REFERENCE POINT
RSHGC	RELATIVE SOLAR HEAT GAIN COEFFICIENT
RTG	RATING
RTU	ROOF TOP UNIT
RVL	REVEAL
S	SOUTH
SALV	SALVAGE
SAN	SANITARY
SASM	SELF-ADHERING SHEET MEMBRANE
SB	SPLASH BLOCK
SCHED	SCHEDULE / SCHEDULED
SCHEM	SCHEMATIC
SCP	SCUPPER
SCWD	SOLID CORE WOOD DOOR
SEC	SECOND
SECT	SECTION
SED	SEE ELECTRICAL DRAWINGS
SF	SQUARE FOOT / SQUARE FEET / SUPPLY FAN
SGL	SINGLE
SHT	SHEET
SHT MTL FLASH	SHEET METAL FLASHING
SHTHG	SHEATHING
SID	SEE INDUSTRIAL DRAWINGS
SIM	SIMILAR
SLNT	SEALANT
SM	SHEET METAL / SMALL / SURFACE MOUNTED
SMACNA	SHEET METAL AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SMD	SEE MECHANICAL DRAWINGS
SPD	SEE PLUMBING DRAWINGS
SPEC	SPECIFICATION(S)
SPLY	SUPPLY
SPRT	SUPPORT
SQ	SQUARE
SSD	SEE STRUCTURAL DRAWINGS

ABBREVIATIONS

SST	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STL JST	STEEL JOIST
STOR	STORAGE
STRUCT	STRUCTURAL
SUPV	SUPERVISOR
SURF	SURFACE
SUSP	SUSPENDED
SYMM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T&L	TOILET & LOCKER
TBD	TO BE DETERMINED
TECH	TECHNOLOGY
TEL	TELEPHONE
TEMP	TEMPERATURE / TEMPORARY
TERR	TERRAZZO
THK	THICK / THICKNESS
THRES	THRESHOLD
THRU	THROUGH
TMPD GL	TEMPERED GLASS
TO	TOP OF ____
TOC	TOP OF CONCRETE / TOP OF CURB
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET / TOP OF PAVEMENT
TOS	TOP OF STEEL / TOP OF SLAB
TOW	TOP OF WALL
TRTD	TREATED
TS	TUBE STEEL
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UC	UNDERCUT
UL	UNDERWRITER'S LABORATORIES
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UTIL	UTILITY
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VNR	VENEER
VT	VISIBLE TRANSMITTANCE
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W	WEST / WIDTH / WIDE
W/	WITH
W/O	WITHOUT
WBL	WOOD BLOCKING
WC	WATER CLOSET / WALL COVERING
WD	WOOD / WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WGL	WIRED GLASS
WH	WATER HEATER / WEEP HOLE
WO	WHERE OCCURS
WP	WATERPROOFING / WORKING POINT
WR	WATER RESISTANT / WEATHER RESISTANT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD / YARDS

GRAPHIC SYMBOLS



A-002

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REN 08/31/2025
STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

SHEET:
23
OF
145

BID DELIVERABLE

GENERAL INFORMATION

OWNER:
IMPERIAL COUNTY TRANSPORTATION COMMISSION (ICTC)

SITE ADDRESS:
244 E 3RD STREET, CALEXICO, CA 92231

AUTHORITY HAVING JURISDICTION:
CITY OF CALEXICO, CALIFORNIA, DEPARTMENT OF PUBLIC WORKS, BUILDING AND SAFETY, FIRE DEPARTMENT

CODES IN EFFECT:
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, 2019
- PART 1 - CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
- PART 2 - CALIFORNIA BUILDING CODE (CBC)
- PART 3 - CALIFORNIA ELECTRICAL CODE (CEC)
- PART 5 - CALIFORNIA PLUMBING CODE (CPC)
- PART 6 - CALIFORNIA ENERGY CODE
- PART 9 - CALIFORNIA FIRE CODE
- PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
- PART 12 - CALIFORNIA REFERENCE STANDARDS CODE
- PUBLISHED SUPPLEMENTS AND ERRATA TO CCR TITLE 24, 2019

CITY OF CALEXICO MUNICIPAL CODES AND AMENDMENTS, 1995 MODIFIED

- UNIFORM BUILDING CODE 1997
- UNIFORM PLUMBING CODE 1997
- NATIONAL ELECTRICAL CODE 1996
- UNIFORM MECHANICAL CODE 1997
- FIRE PREVENTION CODE 1991
- UNIFORM FIRE CODE 1997

NOTE: REFER TO LIFE SAFETY / OCCUPANCY PLANS FOR OCCUPANT LOADS, PLUMBING FIXTURE COUNTS AND MEANS OF EGRESS INFORMATION.

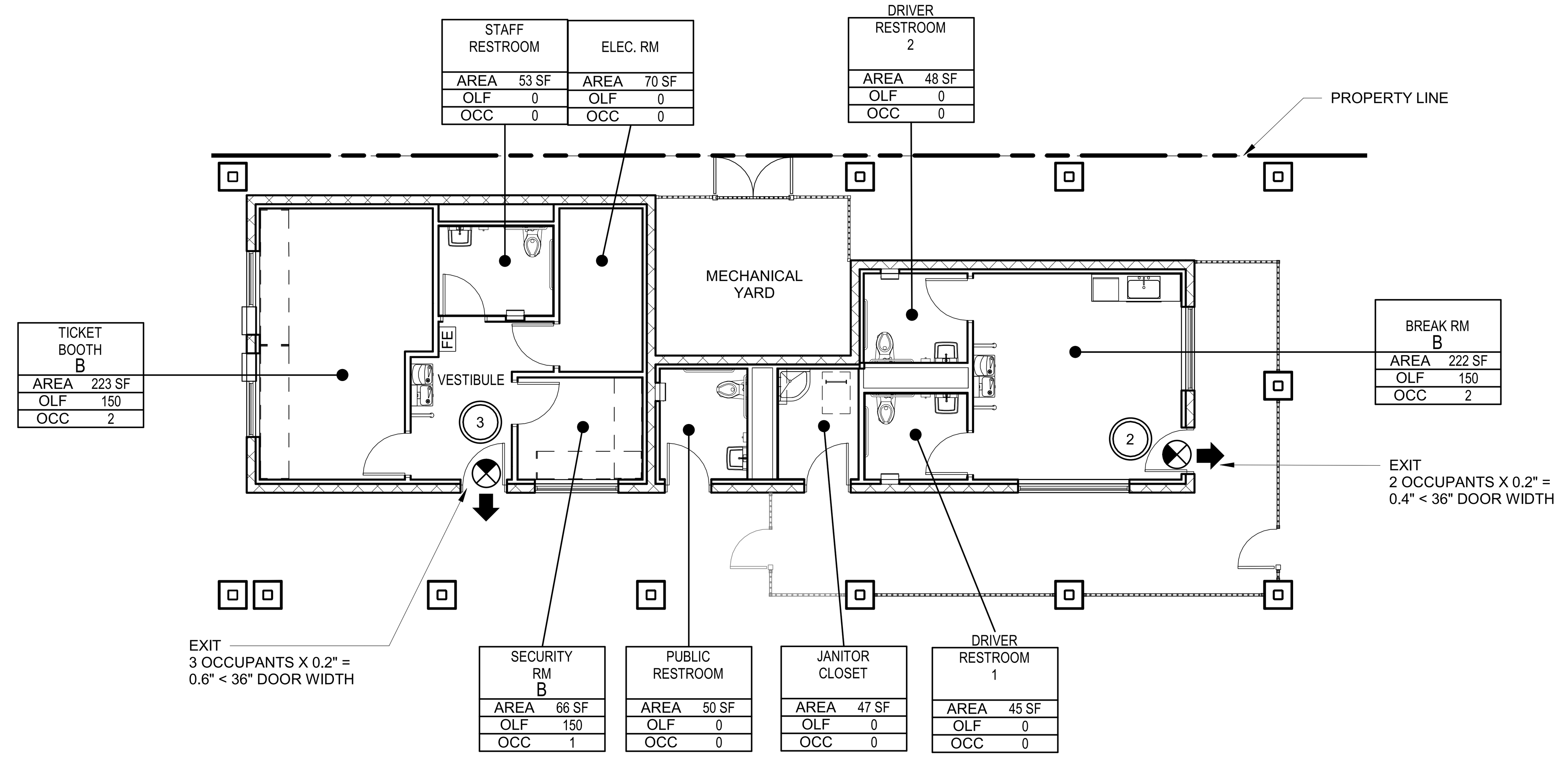
EASEMENTS AND SETBACKS
LAND USE: PARCEL IS ZONED AS "CS" COMMERCIAL SPECIALTY ZONE INTENDED TO PROVIDE FOR THOSE COMMERCIAL USES INCLUDING MIXED-USE DEVELOPMENT CENTRALIZED IN THE OLD DOWNTOWN AREA ALONG THE INTERNATIONAL BORDER.

BULDING FORM
PER CITY OF CALEXICO - CODE OF ORDINANCES, TITLE 17 - ZONING, CHAPTER 17.05 - COMMERCIAL ZONES
MAXIMUM HEIGHT OF 35' OR TWO STORIES WHICHEVER IS LESS
LOT COVERAGE - MAXIMUM 100%
SETBACK - 12' FRONT *
12' SIDE YARD SETBACK STREET SIDE
0' REAR YARD SETBACK
*SETBACK VARIANCE APPLICATION IS IN PROCESS.

PARKING DATA
PER CITY OF CALEXICO - CODE OF ORDINANCES, TITLE 17 - ZONING, CHAPTER 17.13.130 - SCHEDULE OF OFF-STREET PARKING REQUIREMENTS - C. PUBLIC AND SEMI-PUBLIC USES - 6. PUBLIC UTILITIES
MINIMUM OFF-STREET PARKING REQ. TO BE DETERMINED BY THE CITY COUNCIL.

5 TOTAL PARKING SPACES.
1 ACCESSIBLE AND 4 PARKING SPACES PROVIDED, SEE SITE PLAN A-100.

BUILDING	AREA (SF)	CONSTRUCTION TYPE	OCCUPANCY GROUP
TICKET BOOTH & BREAK ROOM (NEW)	1,175 SF	TYPE V-B, NON-SPRINKLERED	B / S-2



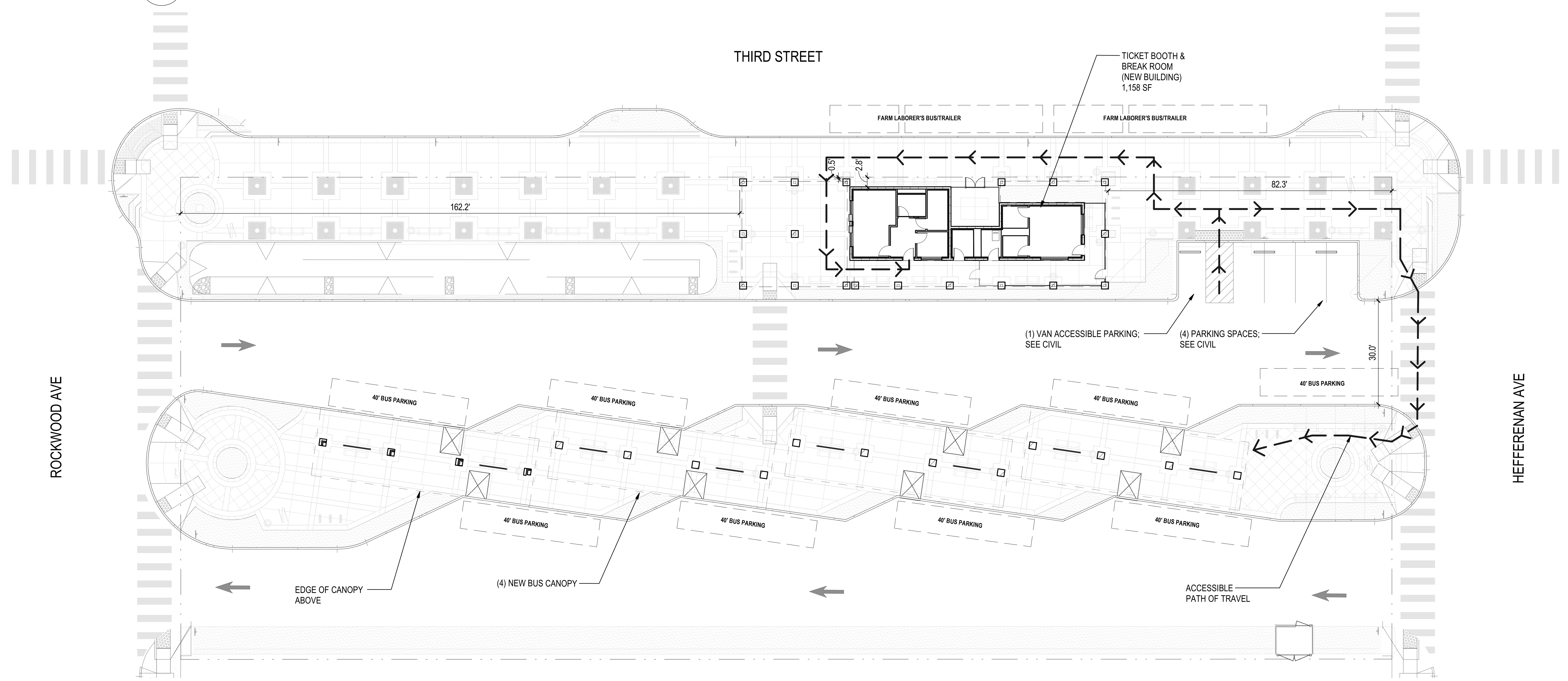
2 A-010 **BUILDING - LIFE SAFETY / OCCUPANCY PLAN** 0 4' 8' 16'
1/8" = 1'-0"

CODE LEGEND

SYMBOL	DESCRIPTION
XX (circle)	CONVERGING OCCUPANT LOAD OF AREA
XX (square)	OCCUPANT LOAD OF AREA AT EXIT
	DIRECTION OF EGRESS
	WALL MOUNTED EXIT SIGN (NONE REQUIRED IN SCOPE ON THIS SHEET)
	COMMON PATH OF EGRESS TRAVEL

AREA TAG
- Name — ROOM NAME
- OCC — OCCUPANCY
- AREA XXXX SF — AREA (SF)
- OLF OLF — OCCUPANT LOAD FACTOR
- OCC NO — NUMBER OF OCCUPANTS

SYMBOL	DESCRIPTION
	ACCESSIBLE PATH OF TRAVEL
FE	(E) FIRE EXTINGUISHER
	(E) EXIT SIGN
	EXIT ARROWS



1 A-010 **SITE - CODE ANALYSiS / ACCESSIBILITY PLAN** 0 10' 20' 40'
1" = 20'-0"

A-010

NO.	BY:	REVISION COMMENTS

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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: CODE INFORMATION

SHEET: 24 OF 145

BID DELIVERABLE

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES

SECTION	MEASURE	REQUIREMENTS	SHEET REFERENCE
5.106.1	STORM WATER POLLUTION PREVENTION	NEWLY CONSTRUCTED PROJECTS AND ADDITIONS WHICH DISTURB LESS THAN ONE ACRE OF LAND SHALL PREVENT THE POLLUTION OF STORMWATER RUNOFF FROM THE CONSTRUCTION ACTIVITIES THROUGH ONE OR MORE OF THE FOLLOWING MEASURES. **5.106.1.1 LOCAL ORDINANCE** **5.106.1.2 BEST MANAGEMENT PRACTICES (BMP)**	CIVIL
5.106.4	BICYCLE PARKING	**5.106.4.1 SHORT TERM BICYCLE PARKING.** IF THE NEW PROJECT OR AN ADDITION OR ALTERATION IS ANTICIPATED TO GENERATE VISITOR TRAFFIC, PROVIDE PERMANENTLY ANCHORED BICYCLE RACKS WITHIN 200 FEET OF THE VISITORS' ENTRANCE, READILY VISIBLE TO PASSERS-BY, FOR 5 PERCENT OF NEW VISITOR MOTORIZED VEHICLE PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE TWO-BIKE CAPACITY RACK. **EXCEPTION:** ADDITIONS OR ALTERATIONS WHICH ADD NINE OR LESS VEHICULAR PARKING SPACES.	LANDSCAPE
5.106.4	BICYCLE PARKING	**5.106.4.1.2 LONG TERM BICYCLE PARKING.** FOR NEW BUILDINGS WITH 10 OR MORE OCCUPANTS OR FOR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE TENANT VEHICULAR SPACES, PROVIDE SECURE BICYCLE PARKING FOR 5 PERCENT OF THE TENANT VEHICULAR PARKING SPACES BEING ADDED, WITH A MINIMUM OF ONE SPACE. ACCEPTABLE PARKING FACILITIES SHALL BE CONVENIENT FROM THE STREET AND SHALL MEET ONE OF THE FOLLOWING: 1. COVERED LOCKABLE ENCLOSURES WITH PERMANENTLY ANCHORED RACKS FOR BICYCLES; 2. LOCKABLE BICYCLE ROOMS WITH PERMANENTLY ANCHORED RACKS; OR 3. LOCKABLE, PERMANENTLY ANCHORED BICYCLE LOCKERS.	N/A
5.106.5.2	DESIGNATED PARKING FOR CLEAN AIR VEHICLES	IN NEW PROJECTS OR ADDITIONS OR ALTERATIONS THAT ADD 10 OR MORE VEHICULAR PARKING SPACES, PROVIDE DESIGNATED PARKING FOR ANY COMBINATION OF LOW-EMITTING, FUEL EFFICIENT, AND CARPOOL / VAN POOL VEHICLES PER TABLE 5.106.5.2.	N/A
5.106.5.3	ELECTRICAL VEHICLE (EV) CHARGING	CONSTRUCTION FACILITATING FUTURE INSTALLATION OF ELECTRICAL VEHICLE SUPPLY EQUIPMENT (EVSE).	N/A
5.106.8	LIGHT POLLUTION REDUCTION	OUTDOOR LIGHT FIXTURES REQUIREMENTS.	ELECTRICAL
5.106.10	GRADING AND PAVING	CONSTRUCTION PLANS SHALL INDICATE HOW SITE GRADING OR A DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS.	CIVIL
5.303.1	WATER METERS	SEPARATE SUBMETERS OR METERING DEVICES SHALL BE INSTALLED FOR THE USES DESCRIBED IN SECTIONS 5.303.1.1 AND 5.393.1.2.	PLUMBING
5.303.3	WATER CONSERVING PLUMBING FIXTURES	PLUMBING FIXTURES (WATER CLOSETS, URINALS, FAUCETS) SHALL COMPLY WITH NOTED EFFICIENCY REQUIREMENTS.	PLUMBING
5.303.4	FOOD WASTE DISPOSERS	DISPOSERS SHALL MODULATE THE USE OF WATER OR AUTOMATICALLY SHUT OFF AFTER NO MORE THAN 10 MINUTES OF INACTIVITY.	N/A;
5.304.2	OUTDOOR WATER USE	OUTDOOR WATER USE IN LANDSCAPE AREAS EQUAL TO OR GREATER THAN 500 SQUARE FEET MUST MEET ONE OF TWO NAMED ORDINANCES.	LANDSCAPE
5.304.3	OUTDOOR WATER USE	OUTDOOR WATER USE IN REHABILITATED LANDSCAPE PROJECTS EQUAL TO OR GREATER THAN 2,500 SQUARE FEET MUST MEET ONE OF TWO NAMED ORDINANCES.	LANDSCAPE
5.304.4	OUTDOOR WATER USE	OUTDOOR WATER USE IN A PROJECT WITH 2,500 SQUARE FEET OR LESS OF LANDSCAPE AREA MUST COMPLY WITH THE PERFORMANCE OR PRESCRIPTIVE MWELO REQUIREMENTS.	LANDSCAPE
5.304.5	GRAYWATER/ RAINWATER	GRAYWATER OR RAINWATER USE IN LANDSCAPE AREAS. FOR PROJECTS USING TREATED OR UNTREATED GRAYWATER OR RAINWATER CAPTURED ON SITE, ANY LOT OR PARCEL WITHIN THE PROJECT THAT HAS LESS THAN 2,500 SQUARE FEET OF LANDSCAPE AND MEETS THE LOT OR PARCEL'S LANDSCAPE WATER REQUIREMENT (ESTIMATED TOTAL WATER USE) ENTIRELY WITH TREATED OR UNTREATED GRAYWATER OR THROUGH STORED RAINWATER CAPTURED ON SITE IS SUBJECT ONLY TO APPENDIX D SECTION (5).	LANDSCAPE
5.407	WEATHER PROTECTION	PROVIDE A WEATHER-RESISTANT EXTERIOR WALL AND FOUNDATION ENVELOPE AS REQUIRED BY CBC SECTION 1403.2 (WEATHER PROTECTION) AND CALIFORNIA ENERGY CODE SECTION 150 (MANDATORY FEATURES AND DEVICES), MANUFACTURER'S INSTALLATION INSTRUCTIONS, OR LOCAL ORDINANCE, WHICHEVER IS MORE STRINGENT.	ARCH
5.407.2.1	MOISTURE CONTROL	SPRINKLERS. DESIGN AND MAINTAIN IRRIGATION SYSTEMS TO PREVENT SPRAY ON STRUCTURES.	LANDSCAPE
5.407.2.2	MOISTURE CONTROL	ENTRIES AND OPENINGS. DESIGN EXTERIOR ENTRIES SUBJECT TO FOOT TRAFFIC OR WIND-DRIVEN RAIN TO PREVENT WATER INTRUSION A 4 FOOT DEEP AWNING OR OVERHANG. ALSO, INSTALL FLASHINGS INTEGRATED WITH THE DRAINAGE PLANE.	ARCH
5.408.1	CONSTRUCTION WASTE MANAGEMENT	RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE PER AN APPROVED (1) CONSTRUCTION WASTE MANAGEMENT PLAN, (2) WASTE MANAGEMENT COMPANY, OR (3) WASTE STREAM REDUCTION ALTERNATIVE. COMPLIANCE WITH A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE IS ALSO ACCEPTABLE, IF MORE STRINGENT. DOCUMENTATION MUST COMPLY WITH SECTION 5.408.1.4.	LANDSCAPE
5.408.2	UNIVERSAL WASTE	ADDITIONS AND ALTERATIONS SHALL REQUIRE VERIFICATION THAT UNIVERSAL WASTE ITEMS SUCH AS FLUORESCENT LAMPS AND BALLAST AND MERCURY CONTAINING THERMOSTATS AS WELL AS OTHER CALIFORNIA PROHIBITED UNIVERSAL WASTE MATERIALS ARE DISPOSED OF PROPERLY AND ARE DIVERTED FROM LANDFILLS.	A-112
5.408.3	EXCAVATED SOIL AND LAND CLEARING DEBRIS	100 PERCENT OF TREES, STUMPS, ROCKS AND ASSOCIATED VEGETATION AND SOILS RESULTING FROM LAND CLEARING SHALL BE REUSED OR RECYCLED, UNLESS CONTAMINATED BY DISEASE OR PEST INFESTATION.	NA
5.410.1	RECYCLING	RECYCLING BY OCCUPANTS. PROVIDE READILY ACCESSIBLE AREAS SERVING THE ENTIRE BUILDING , MEETING LISTED REQUIREMENTS OR COMPLYING WITH THE LOCAL ORDINANCE IF MORE RESTRICTIVE. FOR ADDITIONS WITH AN INCREASE OF 30 PERCENT OR MORE IN FLOOR AREA, PROVIDE RECYCLING ON SITE.	A-111
5.410.2	COMMISSIONING	COMMISSIONING IS REQUIRED FOR NEW BUILDINGS 10,000 SQUARE FEET AND OVER.	N/A
5.410.4	TESTING AND ADJUSTING	TESTING AND ADJUSTING OF SYSTEMS IS REQUIRED FOR NEW BUILDINGS LESS THAN 10,000 SQUARE FEET OR NEW SYSTEMS TO SERVE AN ADDITION OR ALTERATION SUBJECT TO SECTION 303.1. **5.410.4.2 SYSTEMS.** DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. SYSTEMS TO BE INCLUDED FOR TESTING AND ADJUSTING SHALL INCLUDE, AS APPLICABLE TO THE PROJECT: 1. HVAC SYSTEMS AND CONTROLS. 2. INDOOR AND OUTDOOR LIGHTING AND CONTROLS. 3. WATER HEATING SYSTEMS. 4. RENEWABLE ENERGY SYSTEMS. 5. LANDSCAPE IRRIGATION SYSTEMS. 6. WATER REUSE SYSTEMS.	LANDSCAPE/ PLUMBING/ MECH/ ELEC
5.410.4	TESTING AND ADJUSTING	**5.410.4.3 PROCEDURES.** PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE STANDARDS ON EACH SYSTEM.	LANDSCAPE/ PLUMBING/ MECH/ ELEC
5.410.4	TESTING AND ADJUSTING	**5.410.4.3.1 HVAC BALANCING.** IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE-CONDITIONING SYSTEM IS OPERATED FOR NORMAL USE, BALANCE PER STATED STANDARDS.	MECH
5.410.4	TESTING AND ADJUSTING	**5.410.4.4 REPORTING.** AFTER COMPLETION OF TESTING, ADJUSTING AND BALANCING, PROVIDE A FINAL REPORT OF TESTING SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.	LANDSCAPE/ PLUMBING/ MECH/ ELEC
5.410.4	TESTING AND ADJUSTING	**5.410.4.5 OPERATION AND MAINTENANCE MANUAL.** PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES / WARRANTIES FOR EACH SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.	LANDSCAPE/ PLUMBING/ MECH/ ELEC
5.503	FIREPLACES	FIREPLACES MUST COMPLY WITH LISTED REQUIREMENTS.	N/A; NO FIREPLACE IN PROJECT.
5.504	POLLUTANT CONTROL	**5.504.1 TEMPORARY VENTILATION.** REQUIREMENT ADDRESSES USE AND PROTECTION OF PERMANENT HVAC SYSTEM DURING CONSTRUCTION.	MECH
5.504	POLLUTANT CONTROL	**5.504.3 COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.** SECTION OUTLINES REQUIREMENTS.	MECH
5.504	POLLUTANT CONTROL	**5.504.4.1 ADHESIVES, SEALANTS AND CAULKS.** THESE SHALL MEET THE STATED REQUIREMENTS.	ARCH

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT[1,2]

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLY-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLY-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

SECTION	MEASURE	REQUIREMENTS	SHEET REFERENCE
5.504	POLLUTANT CONTROL	**5.504.4.3 PAINTS AND COATINGS.** THESE SHALL MEET THE STATED REQUIREMENTS.	ARCH

TABLE 5.504.4.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[2,3]

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	50
ROOF COATINGS	250
RUST PRVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS, & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504	POLLUTANT CONTROL	**5.504.4.4 CARPET SYSTEMS.** THESE SHALL MEET THE STATED REQUIREMENTS.	NA
5.504	POLLUTANT CONTROL	**5.504.4.5 COMPOSITE WOOD PRODUCTS.** THESE SHALL MEET THE STATED REQUIREMENTS.	NA

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS[1]

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD 2	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504	POLLUTANT CONTROL	**5.504.4.6 RESILIENT FLOORING SYSTEMS.** THESE SHALL MEET THE STATED REQUIREMENTS.	ARCH
5.504	POLLUTANT CONTROL	**5.504.5.3 FILTERS.** HVAC FILTERS SHALL MEET THE STATED REQUIREMENTS, WITH SOME EXCEPTIONS.	MECH
5.504	POLLUTANT CONTROL	**5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL.** RESTRICTIONS AND SIGNAGE REQUIREMENTS RELATED TO WHERE SMOKING IS ALLOWED.	ARCH
5.505	INDOOR MOISTURE CONTROL	BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF THE CALIFORNIA BUILDING CODE SECTIONS 1203 (VENTILATION) AND CHAPTER 14 (EXTERIOR WALLS).	MECH
5.506	INDOOR AIR QUALITY	**5.506.1 OUTSIDE AIR DELIVERY.** MEET THE MINIMUM VENTILATION REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND DIVISION 1, CHAPTER 4 OF CCR, TITLE 8.	MECH
5.506	INDOOR AIR QUALITY	**5.506.2 CARBON DIOXIDE (CO_2) MONITORING.** FOR BUILDINGS OR ADDITIONS EQUIPPED WITH DEMAND CONTROL VENTILATION, CO_2 SENSORS AND CONTROLS SHALL BE SPECIFIED AND INSTALLED PER THE CALIFORNIA ENERGY CODE SECTION 120.1(C)(4).	MECH
5.507	ENVIRONMENTAL COMFORT	**5.507.4 ACOUSTICAL CONTROL.** EXTERIOR WALL AND ROOF ASSEMBLIES TO MEET PRESCRIPTIVE OR PERFORMANCE SOUND TRANSMISSION CLASS REQUIREMENTS.	ARCH
5.508	OUTDOOR AIR QUALITY	**5.508.1 OZONE DEPLETION AND GREENHOUSE GAS REDUCTIONS.** HVAC, REFRIGERATION AND FIRE SUPPRESSION EQUIPMENTS SHALL NOT CONTAIN CFC'S OR HALONS.	MECH
5.508	OUTDOOR AIR QUALITY	5.508.2 SUPERMARKET REFRIGERANT LEAK REDUCTION.	N/A

A-013

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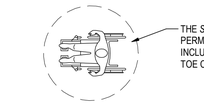
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

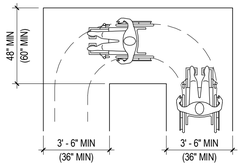
SHEET TITLE: CALGREEN CHECKLIST

SHEET: 25 OF 145

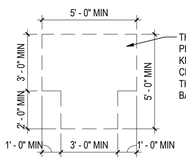
BID DELIVERABLE



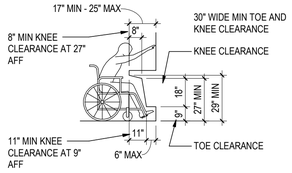
B CIRCULAR TURNING SPACE



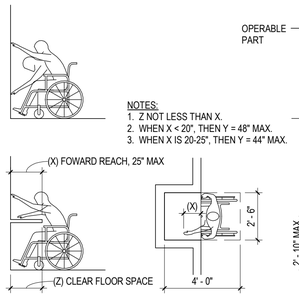
D CLEAR WIDTH AT 180° TURN



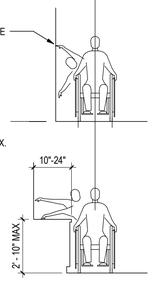
A T-SHAPED TURNING SPACE

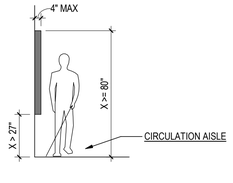


C TOE AND KNEE CLEARANCES

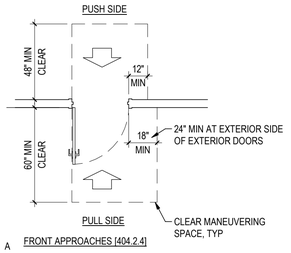


A REACH RANGES [308]

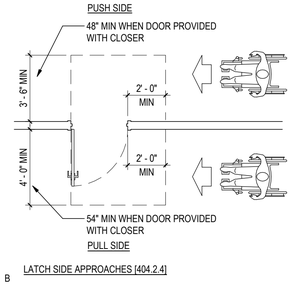




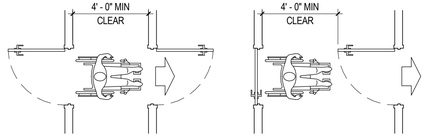
B PROTRUDING OBJECTS [307]



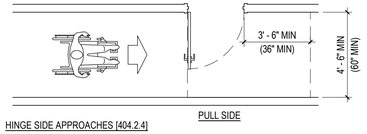
A FRONT APPROACHES [404.2.4]



B LATCH SIDE APPROACHES [404.2.4]



C TWO HINGED DOORS IN SERIES [404.2.6]



D HINGE SIDE APPROACHES [404.2.4]

GENERAL NOTES

A THE PURPOSE OF THIS SHEET IS TO ILLUSTRATE TYPICAL MOUNTING HEIGHTS AND THE MINIMUM AND MAXIMUM CLEARANCES OF A VARIETY OF ITEMS AND SHALL APPLY UNLESS SPECIFICALLY NOTED OR DIMENSIONED OTHERWISE ON THE ARCHITECTURAL SET OF DRAWINGS.

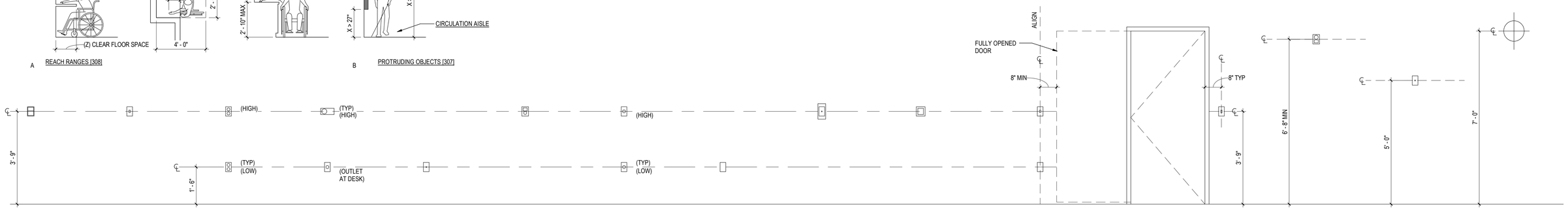
B IT IS THE INTENT OF THIS DESIGN TO PROVIDE ALL ITEMS SHOWN TO BE ACCESSIBLE TO MEET ALL APPLICABLE BUILDING AND ACCESSIBILITY CODES. IF A CONFLICT IS DISCOVERED, THE APPROVED CODE REQUIREMENTS TAKE PRECEDENCE. INFORM THE ARCHITECT OF ANY CONFLICTS BEFORE INSTALLATION.

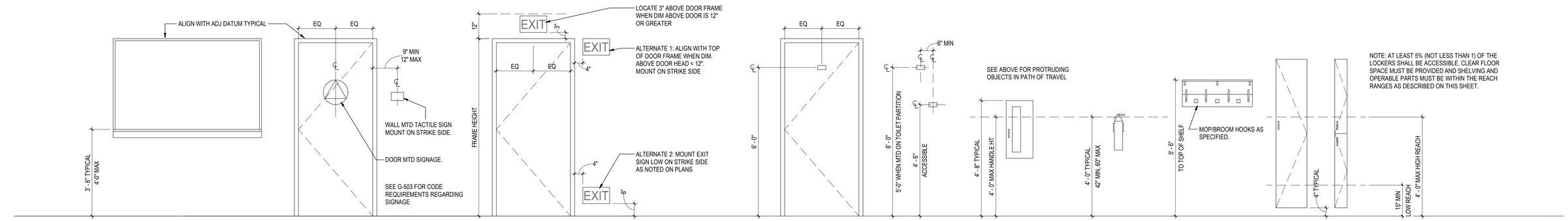
C THIS SHEET MAY ILLUSTRATE ITEMS THAT DO NOT OCCUR IN THE SCOPE OF WORK OF THIS PROJECT.

D MOUNTING HEIGHTS OR CONFIGURATIONS FOR ITEMS NOT SHOWN ON THIS DRAWING MAY BE ILLUSTRATED ON OTHER DRAWINGS WITHIN THIS DRAWING SET OR NOTED IN THE PROJECT SPECIFICATIONS.

E THE TYPICAL DIMENSIONS AND CONFIGURATIONS OF PLUMBING FIXTURE MOUNTING HEIGHTS AND PLAN CONFIGURATIONS FOUND ON THIS SHEET TAKE PRECEDENCE OVER DIMENSIONS FOUND ON PLUMBING DRAWINGS.

F FIXTURES AND ACCESSORIES SHOWN ON THIS SHEET ARE TYPICAL AND NOT INTENDED TO BE SPECIFIC TO ANY ONE MANUFACTURER. REFER TO PROJECT SPECIFICATIONS FOR A LIST OF APPROVED MANUFACTURERS. FIXTURES AND ACCESSORIES THAT ARE SPECIFIED MAY HAVE DIFERENT SIZE AND CONFIGURATION REQUIREMENTS, IT IS THE CONTRACTORS RESPONSIBILITY TO MEET THE AESTHETIC AND FUNCTIONAL DESIGN INTENT OF THIS DRAWING SET.





A-051

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue Calexico, CA 92231 Tel:760.768.2100 Fax:760.768.0854
engineering@calexico.ca.gov www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C30017 RENEWAL 08/31/2025 STATE OF CALIFORNIA

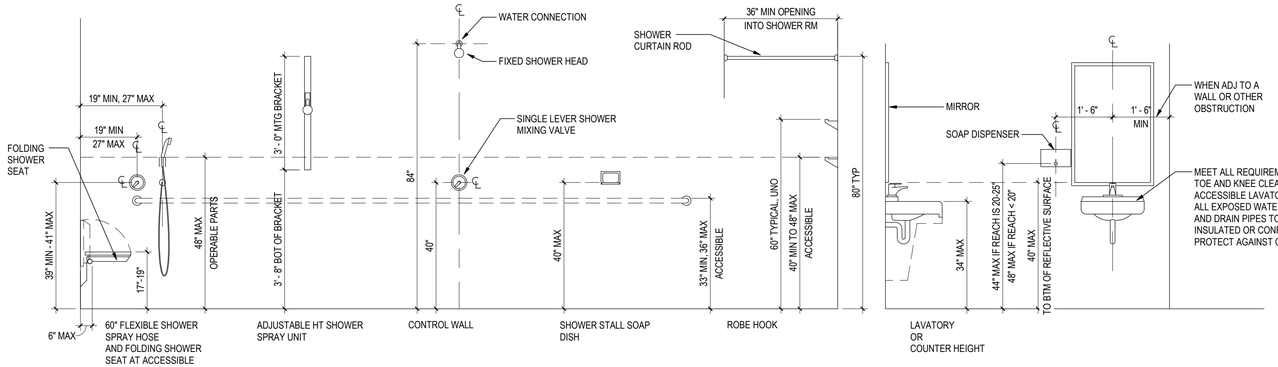
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

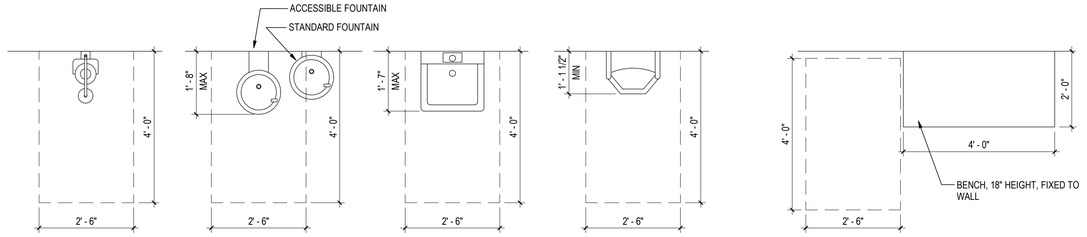
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TYPICAL MOUNTING HEIGHTS AND ACCESSIBILITY DETAILS

SHEET: 26 OF 145

BID DELIVERABLE





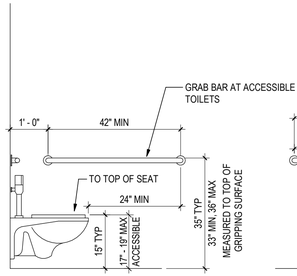
CLEAR FLOOR SPACE AT EMERGENCY SHOWER / EYEWASH

CLEAR FLOOR SPACE AT ACCESSIBLE DRINKING FOUNTAIN

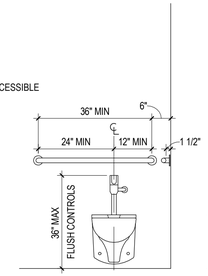
CLEAR FLOOR SPACE AT ACCESSIBLE LAVATORY

CLEAR FLOOR SPACE AT ACCESSIBLE URINAL

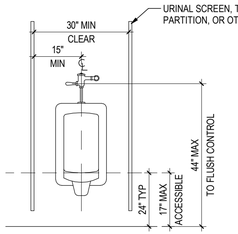
CLEAR FLOOR SPACE AT BENCH, PARALLEL TRANSFER



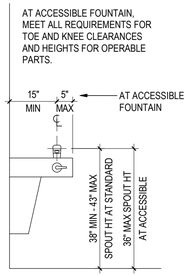
WATER CLOSET AND GRAB BARS (SIDE)



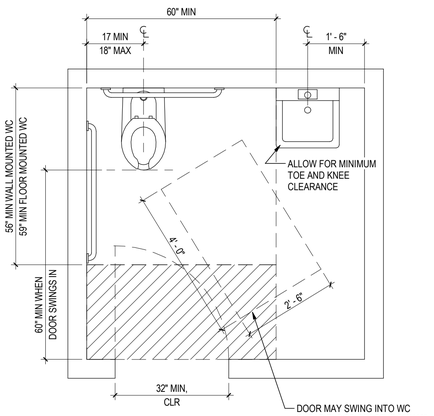
WATER CLOSET AND GRAB BARS (FRONT)



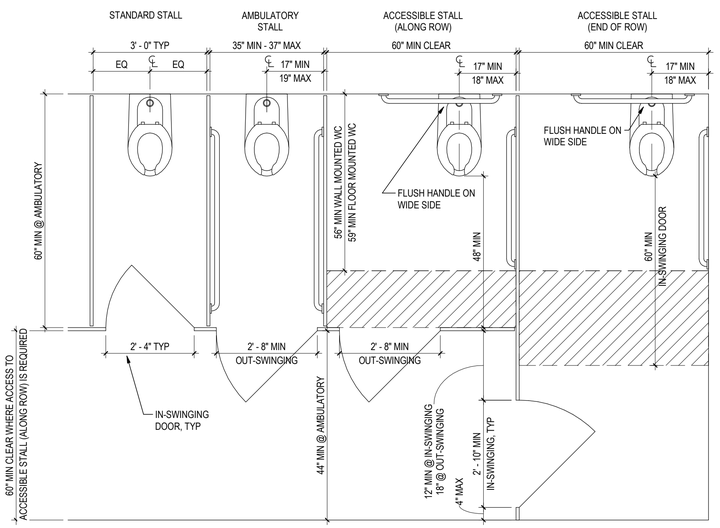
ACCESSIBLE URINAL

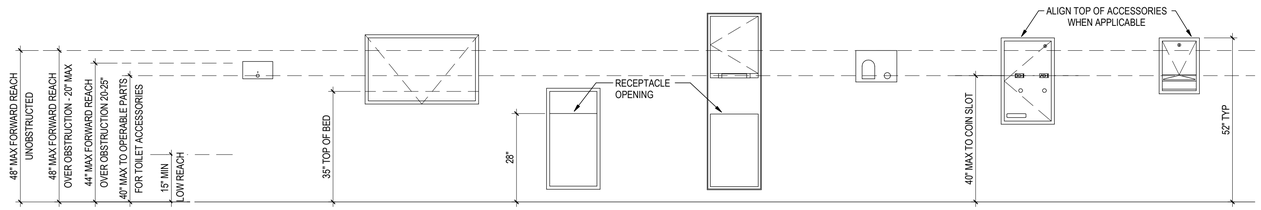


DRINKING FOUNTAIN OR WATER COOLER

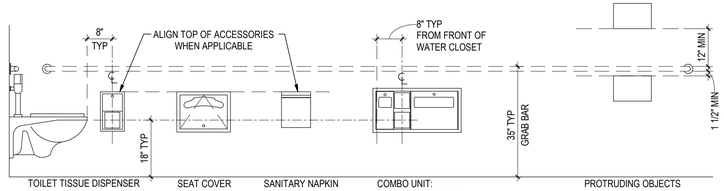


SINGLE OCCUPANCY TOILET OR UNISEX TOILET

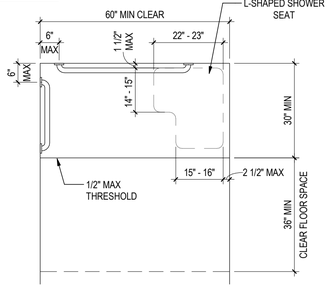




SOAP DISPENSER | BABY CHANGING STATION | WASTE RECEPTACLE | PAPER TOWEL DISPENSER AND WASTE RECEPTACLE | ELECTRIC HAND DRYER | SANITARY NAPKIN VENDOR | PAPER TOWEL DISPENSER



TOILET TISSUE DISPENSER | SEAT COVER DISPENSER | SANITARY NAPKIN RECEPTACLE | COMBO UNIT: TOILET SEAT-COVER DISPENSER/WASTE DISPOSAL/TOILET TISSUE DISPENSER (RECESSED) | PROTRUDING OBJECTS AT GRAB BARS



CLEARANCE AT ACCESSIBLE ROLL-IN SHOWER COMPARTMENT

A-052

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C34017 REN 8/31/2025 STATE OF CALIFORNIA

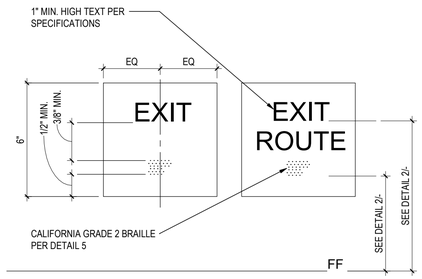
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TYPICAL ACCESSIBILITY DETAILS

SHEET: 27 OF 145

BID DELIVERABLE



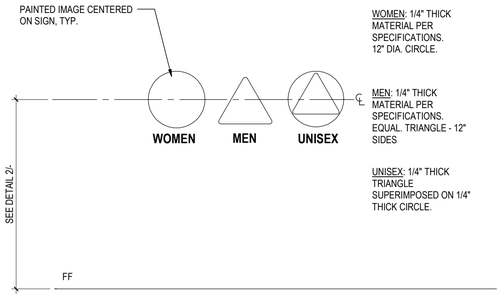
TEXT
PROVIDE TACTILE EXIT SIGNS WITH THE TEXT NOTED AT LOCATIONS INDICATED (PER SECTION 1013 CBC)

AT GRADE LEVEL DOORS:
EXIT

AT EXIT DOORS LEADING TO A GRADE LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY:
EXIT ROUTE

AT EXIT ACCESS DOORS FROM INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED BY CODE TO HAVE A VISUAL EXIT SIGN:
EXIT ROUTE

5 TACTILE EXIT SIGN DETAIL
A-053 — 3" = 1'-0"



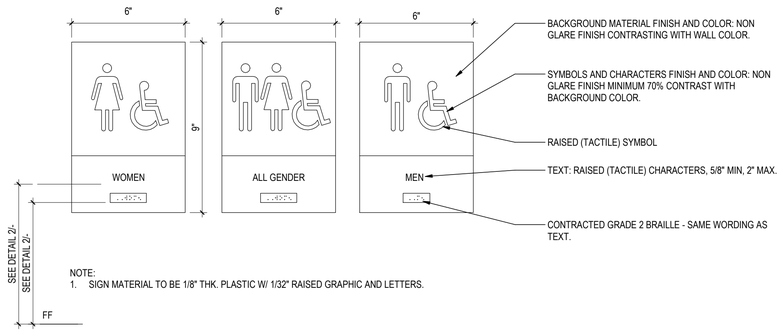
WOMEN: 1/4" THICK MATERIAL PER SPECIFICATIONS. 12" DIA. CIRCLE.

MEN: 1/4" THICK MATERIAL PER SPECIFICATIONS. EQUAL TRIANGLE - 12" SIDES

UNISEX: 1/4" THICK TRIANGLE SUPERIMPOSED ON 1/4" THICK CIRCLE.

NOTE:
1. SIGNS SHALL BE CENTERED ON THE DOOR.
2. SYMBOL COLOR SHALL CONTRAST WITH DOOR COLOR.
3. SEE SPECIFICATIONS FOR COLOR.

4 DOOR MOUNTED SIGNAGE
A-053 — 1/2" = 1'-0"



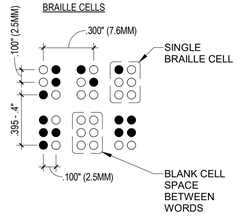
NOTE:
1. SIGN MATERIAL TO BE 1/8" THK. PLASTIC W/ 1/32" RAISED GRAPHIC AND LETTERS.

1 TOILET ROOM IDENTIFICATION SIGN (TACTILE)
A-053 — 3" = 1'-0"

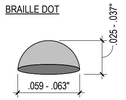
BRAILLE

BRAILLE MEASUREMENT TO COMPLY WITH 11B-703.3.1

BRAILLE CELLS



BRAILLE DOT



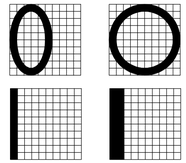
ROUNDED DOT (ACCEPTABLE)

SQUARE DOT (NON ACCEPTABLE)

TEXT

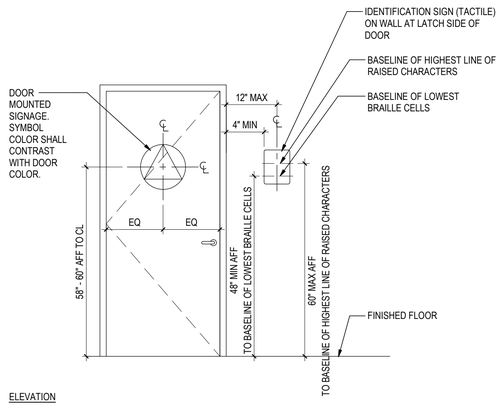
WIDTH TO HEIGHT RATIO
60% - 100%
3:5 - 1:1

STROKE TO HEIGHT RATIO
10% - 19%
1:10 - 1:5

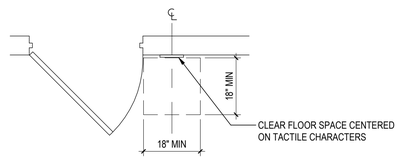


CONTRAST
MINIMUM 70% CONTRAST DIFFERENCE BETWEEN CHARACTERS/GRAPHICS AND BACKGROUND.

6 BRAILLE AND TEXT TEMPLATE DETAIL
A-053 — 1/2" = 1'-0"



ELEVATION



PLAN

GENERAL NOTES:
1. SIGN MATERIAL PER SPECIFICATIONS
2. LOCATE SIGN PER DIMENSIONS ABOVE. MOUNT AT LOCATION WHERE A PERSON CAN APPROACH TO VIEW SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS TO THE DOOR SWING
3. SEE DETAIL ON THIS SHEET FOR BRAILLE REQUIREMENTS
4. SEE DETAIL ON THIS SHEET FOR TEXT REQUIREMENTS

2 TOILET ROOM IDENTIFICATION SIGN (TACTILE) AND DOOR SYMBOLS
A-053 — 1/2" = 1'-0"

SIGNAGE

216 SIGNS (SCOPING REQUIREMENTS)
216.2 DESIGNATIONS. INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH 703.1 (GENERAL), 703.2 (RAISED CHARACTERS), AND 703.5 (VISUAL CHARACTERS). WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH 703.6 AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 703.2 (RAISED CHARACTERS) AND 703.5 (VISUAL CHARACTERS).
EXCEPTION: EXTERIOR SIGNS THAT ARE NOT LOCATED AT THE DOOR TO THE SPACE THEY SERVE SHALL NOT BE REQUIRED TO COMPLY WITH 703.2.

[ADVISORY 216.2 SECTION 216.2 APPLIES TO SIGNS THAT PROVIDE DESIGNATIONS, LABELS, OR NAMES FOR INTERIOR ROOMS OR SPACES WHERE THE SIGN IS NOT LIKELY TO CHANGE OVER TIME. EXAMPLES INCLUDE INTERIOR SIGNS LABELING RESTROOMS, ROOM AND FLOOR NUMBERS OR LETTERS, AND ROOM NAMES.]

216.3 DIRECTIONAL AND INFORMATIONAL SIGNS. SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH 703.5 (VISUAL CHARACTERS).

[ADVISORY 216.3 DIRECTIONAL AND INFORMATIONAL SIGNS. INFORMATION ABOUT INTERIOR SPACES AND FACILITIES INCLUDES RULES OF CONDUCT, OCCUPANT LOAD, AND SIMILAR SIGNS. SIGNS PROVIDING DIRECTION TO ROOMS OR SPACES INCLUDE THOSE THAT IDENTIFY EGRESS ROUTES.]

216.4 MEANS OF EGRESS
216.4.1 EXIT DOORS. DOORS AT EXIT PASSAGEWAYS, EXIT DISCHARGE, AND EXIT STAIRWAYS SHALL BE IDENTIFIED BY TACTILE SIGNS COMPLYING WITH 703.1 (GENERAL), 703.2 (RAISED CHARACTERS), AND 703.5 (VISUAL CHARACTERS).

216.4.2 AREAS OF REFUGE. SIGNS TO PROVIDE INSTRUCTIONS IN AREAS OF REFUGE SHALL COMPLY WITH 703.5 (VISUAL CHARACTERS).

216.4.3 DIRECTIONAL SIGNS. SIGNS TO PROVIDE DIRECTIONS TO ACCESSIBLE MEANS OF EGRESS SHALL COMPLY WITH 703.5 (VISUAL CHARACTERS).

216.5 PARKING. ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY SIGNS. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE". SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN.

216.6 ENTRANCES. WHERE NOT ALL ENTRANCES COMPLY WITH 404, ENTRANCES COMPLYING WITH 404 SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. DIRECTIONAL SIGNS COMPLYING WITH 703.5 (VISUAL CHARACTERS) THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 404.
404. DOORS, DOORWAYS, AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE.

216.7 ELEVATORS. WHERE EXISTING ELEVATORS DO NOT COMPLY WITH 407, ELEVATORS THAT DO COMPLY WITH 407 SHALL BE CLEARLY IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

216.8 TOILET ROOMS AND BATHING ROOMS. WHERE EXISTING TOILET OR BATHING ROOMS ARE NOT ACCESSIBLE, DIRECTIONAL SIGNAGE INDICATING THE LOCATION OF THE NEAREST TOILET ROOM OR BATHING ROOM COMPLYING WITH 603 WITHIN THE FACILITY SHALL BE PROVIDED. SIGNS SHALL COMPLY WITH 703.5 (VISUAL CHARACTERS) AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.

703 SIGNS (TECHNICAL REQUIREMENTS)
703.1 GENERAL. SIGNS SHALL COMPLY WITH 703. WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE WITH VISUAL, AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.

703.2 RAISED CHARACTERS. RAISED CHARACTERS SHALL COMPLY WITH 703.2 AND SHALL BE DUPLICATED IN BRAILLE COMPLYING WITH 703.3. RAISED CHARACTERS SHALL BE INSTALLED IN ACCORDANCE WITH 703.4.

703.3 BRAILLE. BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH 703.3 AND 703.4.

703.4 INSTALLATION HEIGHT AND LOCATION. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 703.4.
703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.
EXCEPTION: TACTILE CHARACTERS FOR ELEVATOR CAR CONTROLS SHALL NOT BE REQUIRED TO COMPLY WITH 703.4.1.
703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE.

703.6 PICTOGRAMS
703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.
703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2 (RAISED CHARACTERS), 703.3 (AND 703.4 (INSTALLATION HEIGHT AND LOCATION).

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.
1. INTERNATIONAL SYMBOL OF ACCESSIBILITY
2. INTERNATIONAL SYMBOL OF TTY
3. INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS
4. VOLUME CONTROL TELEPHONE

A-053

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: ENGINEER DATE

SEAL:

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ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
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Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C34017 REN. 8/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TYPICAL DETAILS AND GENERAL REGULATORY SIGNAGE

SHEET: 28 OF 145

BID DELIVERABLE

GENERAL NOTES

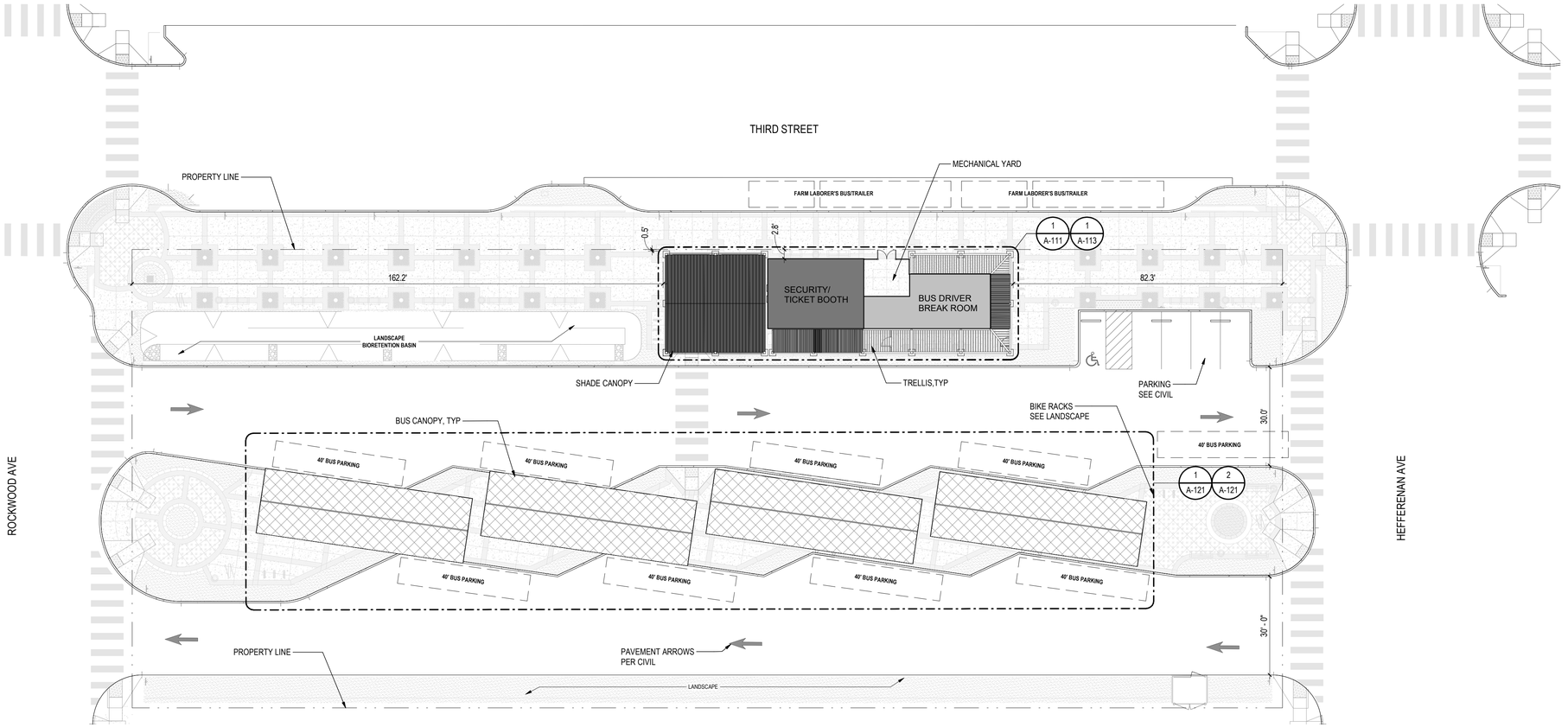
A	DO NOT SCALE DRAWINGS.
B	SEE CIVIL DRAWINGS FOR EASEMENTS, SETBACKS, PROPERTY LINES AND ALL OTHER SITE INFORMATION.
C	SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION ON LANDSCAPE DESIGN AND MATERIALS.
D	SEE CIVIL DRAWINGS FOR LOCATION AND HORIZONTAL AND VERTICAL CONTROL OF SECURITY FENCING AND GATES.
E	PROVIDE FIRE X-1 BYPASS HARDWARE, AUTOMATIC KEY OVERRIDE IN KNOX BOXES AND/OR KNOX SWITCHES AT VEHICLE ENTRY GATES, PEDESTRIAN SITE ACCESS GATES, AND BUILDING ENTRIES AS REQUIRED BY FIRE DEPARTMENT. CONTRACTOR TO VERIFY PERMIT REQUIREMENTS FROM FIRE DEPARTMENT.
F	PROVIDE FIRE LANE SIGNAGE AS REQUIRED BY FIRE DEPARTMENT. COORDINATE WITH CIVIL DRAWINGS.

PARKING COUNT

EMPLOYEE / VISITOR PARKING	SIZE	PROVIDED
STANDARD PARKING SPACES	9' X 18'	4
COMPACT PARKING SPACES	8.5' X 15.5'	0
ACCESSIBLE PARKING SPACES PER CBC TABLE 11B-208.2	9' X 18'	1
(VAN ACCESSIBLE)		1
TOTAL NUMBER OF SPACES		5

SITE LEGEND

- HIGH PARAPET ROOF
- LOW PARAPET ROOF
- CANOPY OVER BUS WAITING AREA
- LANDSCAPE



N

1 A-100 **SITE PLAN**
1" = 20'-0"

0 10' 20' 40'

A-100

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SEAL: LICENSED ARCHITECT No. C28017 REN 5/31/2025 STATE OF CALIFORNIA

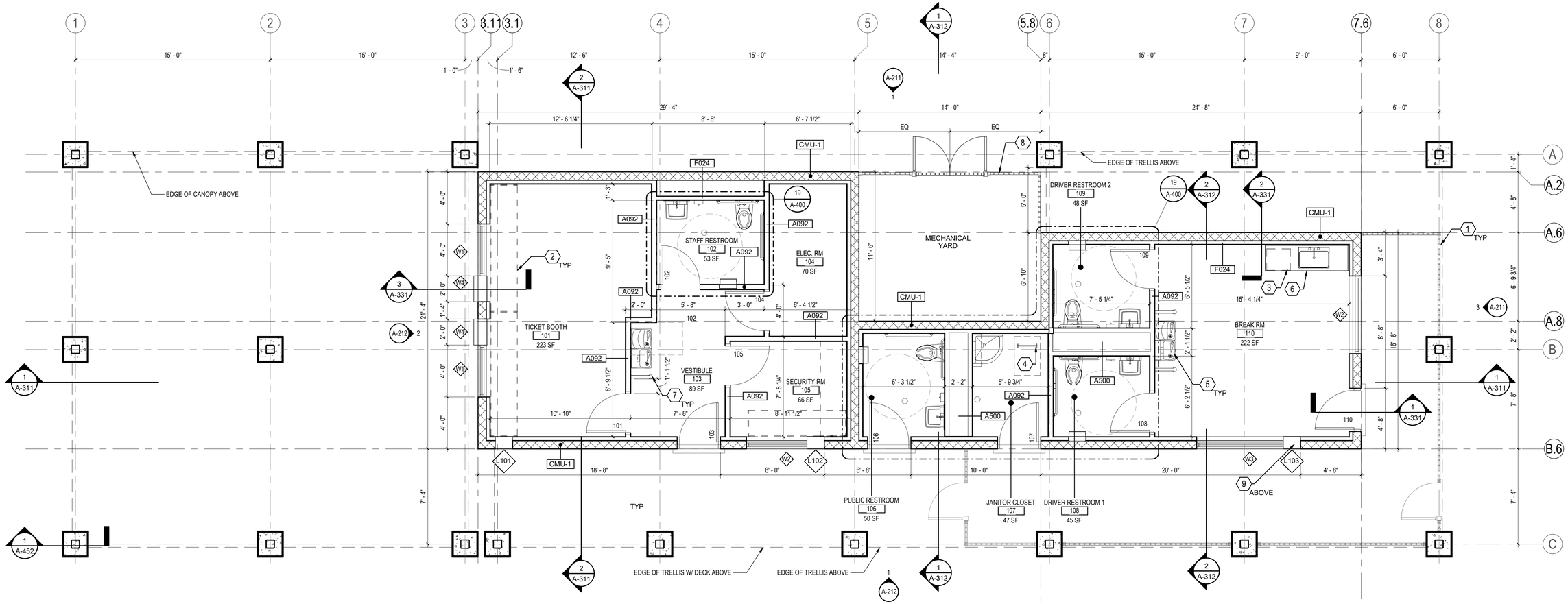
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ARCHITECTURAL SITE PLAN

SHEET: 29 OF 145

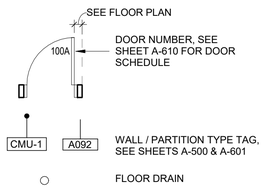
BID DELIVERABLE



1 A-111 BUILDING FLOOR PLAN

1/4" = 1'-0"

LEGEND



KEYNOTES

1	42" HIGH PICKET FENCE, SEE LANDSCAPE DRAWINGS
2	FURNISHINGS, OF/OI
3	MICROWAVE, OF/OI
4	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
5	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER
6	CORIAN COUNTERTOP WITH PLASTIC-LAMINATE BASE CABINETS
7	SS TUBING WITH SATIN FINISH PROTECTIVE RAILINGS ON DRINKING FOUNTAINS SEE 2/A-541
8	6' HIGH PICKET FENCE WITH 36" WIDE GATE, SEE 1/A-451
9	PRE-FINISHED FIXED LOUVER, SEE MECHANICAL DRAWINGS AND LOUVER SCHEDULE

GENERAL PLAN NOTES

A	DO NOT SCALE DRAWINGS.
B	CONTENT NOTED ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
C	ALL MATERIALS AND FINISHES ARE TO COMPLY WITH CALGREEN VOC AND MATERIAL REQUIREMENTS.

0 2' 4' 8'

A-111

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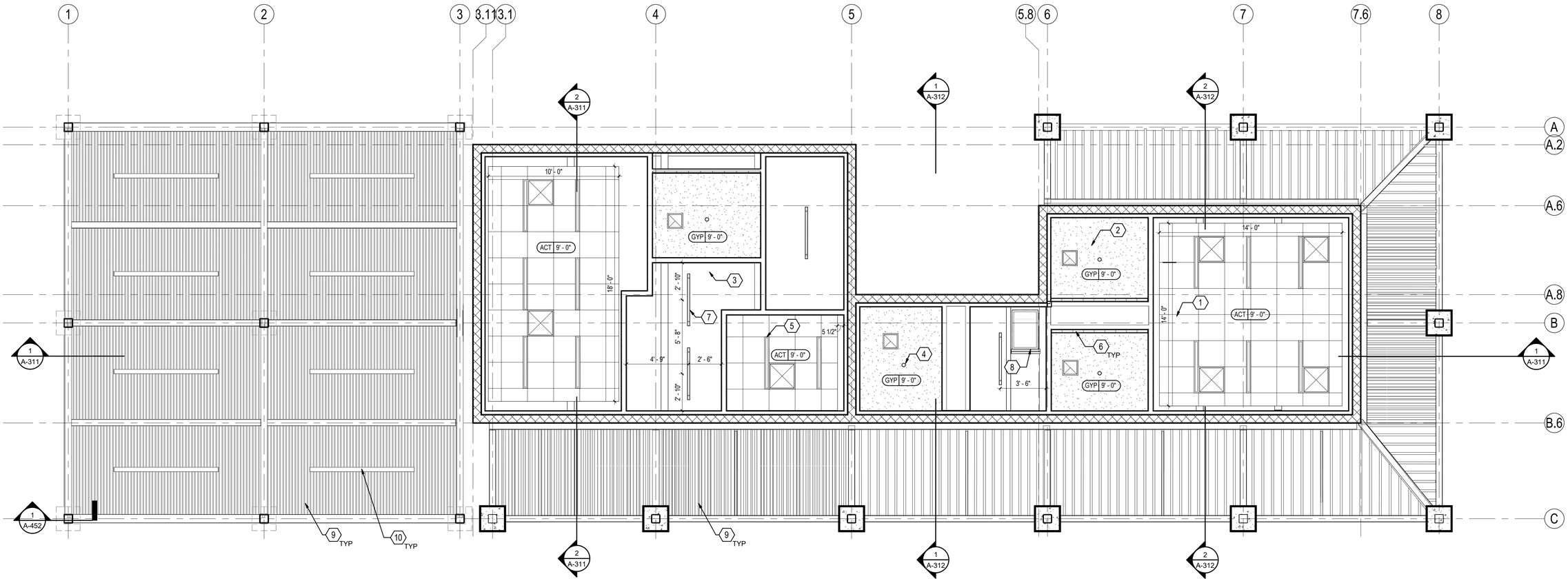
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUILDING - FLOOR PLAN

SHEET: 30 OF 145

BID DELIVERABLE



1 A-112 BUILDING REFLECTED CEILING PLAN

1/4" = 1'-0"

N

KEYNOTES	
1	2' X 2' ACOUSTICAL TILE CEILING
2	GYPSUM CEILING BOARD, REGULAR TYPE
3	OPEN TO STRUCTURE ABOVE
4	RECESSED DOWNLIGHT, SEE ELECTRICAL DRAWINGS
5	RECESSED LINEAR LED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
6	PERIMETER LED COVE LIGHT FIXTURE PER DETAIL 9/A-550, SEE ELECTRICAL DRAWINGS
7	SUSPENDED LINEAR LED LIGHT FIXTURE, BOTTOM OF FIXTURE 9'-0" TYP; SEE ELECTRICAL DRAWINGS
8	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
9	METAL DECK, GALVANIZED AND PAINTED PT-3
10	SUSPENDED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

RCP LEGEND

- ACT CEILING, TYP
- GYPSUM BOARD CEILING, TYP
- UNDERSIDE OF DECK
- RECESSED LINEAR LED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- PENDANT LINEAR LED LIGHT FIXTURE / SUSPENDED LINEAR UTILITY, SEE ELECTRICAL DRAWINGS
- SURFACE MOUNT UTILITY LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- RECESSED DOWNLIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
- PERIMETER COVE LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

GENERAL RCP NOTES

A ALL CEILING HEIGHTS SHALL BE 9'-0" AFF U.N.O.
B FIXTURES NOT DIMENSIONED SHALL BE LOCATED IN THE CENTER OF THE SPACE BOTH WAYS OR PLACED IN GRID AS SHOWN
C ALL AREAS SHOWN BLANK SHALL BE EXPOSED TO STRUCTURE ABOVE, U.N.O.
D GYPSUM CEILING TO BE PAINTED PT-1, U.N.O.
E SEE CEILING JOIST SCHEDULE IN STRUCTURAL DRAWINGS FOR CEILING JOIST SIZE AND SPACING
J ALL INTERIOR EXPOSED STRUCTURE IN MAINTENANCE AREAS, MECHANICAL DUCTWORK, PIPING, CONDUIT, ETC. TO BE PAINTED PT-2,U.N.O.
K BOTTOM OF SUSPENDED LINEAR LIGHTS IN AREAS OPEN TO STRUCTURE SHALL BE 9'-6" AFF, U.N.O.
L MECHANICAL DUCTWORK SHOWN FOR REFERENCE ONLY, SEE MECHANICAL DRAWINGS FOR COMPLETE MECHANICAL LAYOUTS.
M REFER TO G-SERIES CODE PLANS AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT SIGNS.
N ALL MECH DIFFUSERS LOCATED IN GB-1 AND ACT-1 ARE WHITE, U.N.O.
R ALL EXTERIOR WINDOWS IN OFFICE AREAS TO RECEIVE 1" MINI BLIND, U.N.O.

0 2' 4' 8'

A-112

NO.	BY:	REVISION COMMENTS

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SEAL:

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SEAL: LICENSED ARCHITECT No. C34017 REN. 8/31/2025 STATE OF CALIFORNIA

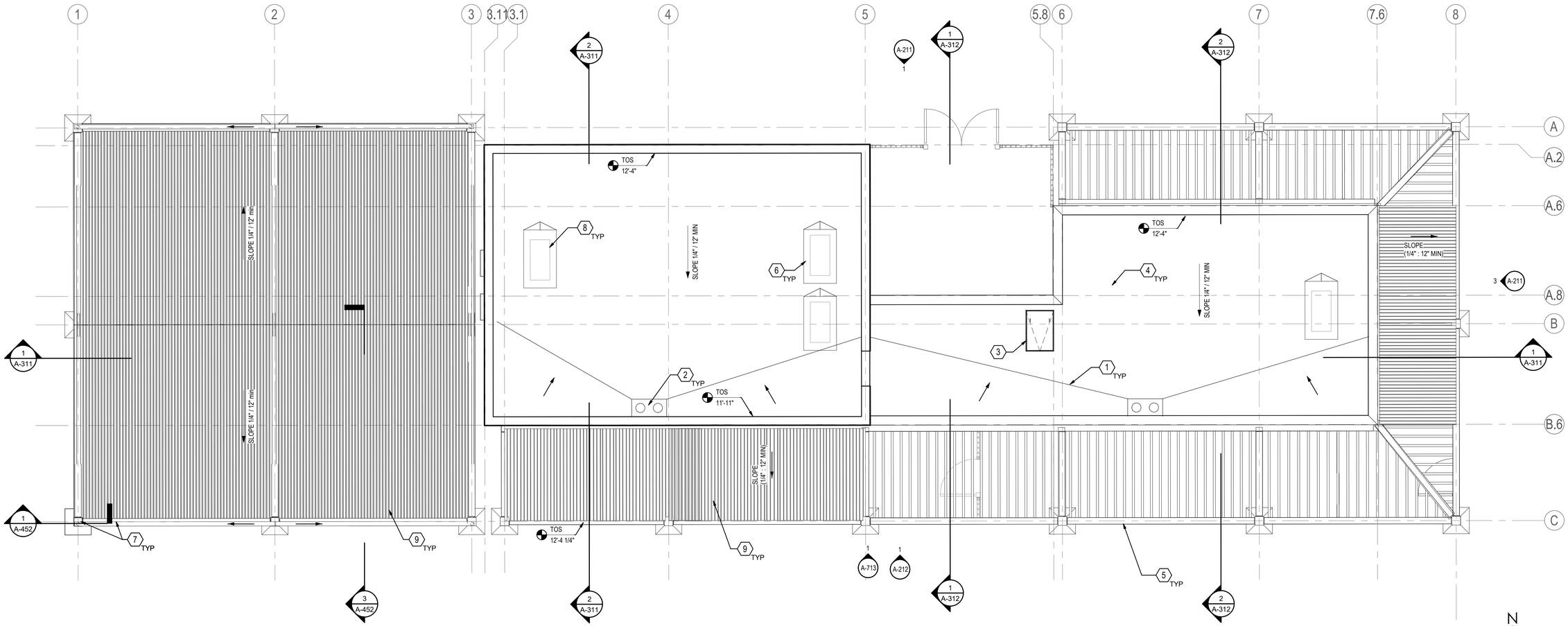
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUILDING - RCP

SHEET: 31 OF 145

BID DELIVERABLE



1 A-113 BUILDING ROOF PLAN

1/4" = 1'-0"

N

KEYNOTES	
1	CRICKETS AS REQUIRED WITH SLOPED INSULATION TO MAINTAIN 1/4":12" SLOPE TO DRAIN
2	ROOF AND OVERFLOW DRAIN, SEE PLUMBING DRAWINGS
3	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
4	ROOFING TYPE 1, SEE 4/A-500
5	METAL TRELLIS, GALVANIZED AND PAINTED, SEE DETAILS
6	MECHANICAL EQUIPMENT PAD, SEE STRUCTURAL DRAWINGS
7	CONCEALED METAL GUTTER, DRAIN PIPE LOCATED WITHIN THE HSS COLUMN AND CONNECTED TO STORM WATER SYSTEM BELOW GRADE
8	MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
9	METAL DECK, GALVANIZED AND PAINTED PT-3

	GENERAL NOTES
A	DO NOT SCALE DRAWINGS.
B	ALL ROOFS TO HAVE MINIMUM OF 1/4" PER FOOT SLOPE UNLESS OTHERWISE NOTED.
C	REFER TO MECHANICAL DRAWINGS FOR COORDINATION OF ROOF TOP UNITS, EXHAUST FANS AND OTHER MECHANICAL EQUIPMENT.
D	REFER TO AND COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
E	ALL CRICKETS TO BE CONSTRUCTED FROM BUILT-UP RIGID INSULATION, INSTALL ON THE UP SLOPE SIDE OF ALL SLOPE OBSTRUCTIONS, UNO
F	ALL CORNER COPING/PARAPET DETAILS TO BE MITERED, UNO
G	SEE SHEET A-501 FOR TYPICAL ROOF DETAILS.
H	FOR ALL ROOFING PENETRATIONS AND FLASHINGS NOT SPECIFICALLY INDICATED, PROVIDE ROOFING MFR TYPICAL FLASHINGS AS REQUIRED.

0 2' 4' 8'

A-113

NO.	BY:	REVISION COMMENTS

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COMMUNITY DEVELOPMENT DEPARTMENT
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SEAL:

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ENGINEER OF WORK:
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SEAL: LICENSED ARCHITECT No. C30017 REN 03/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

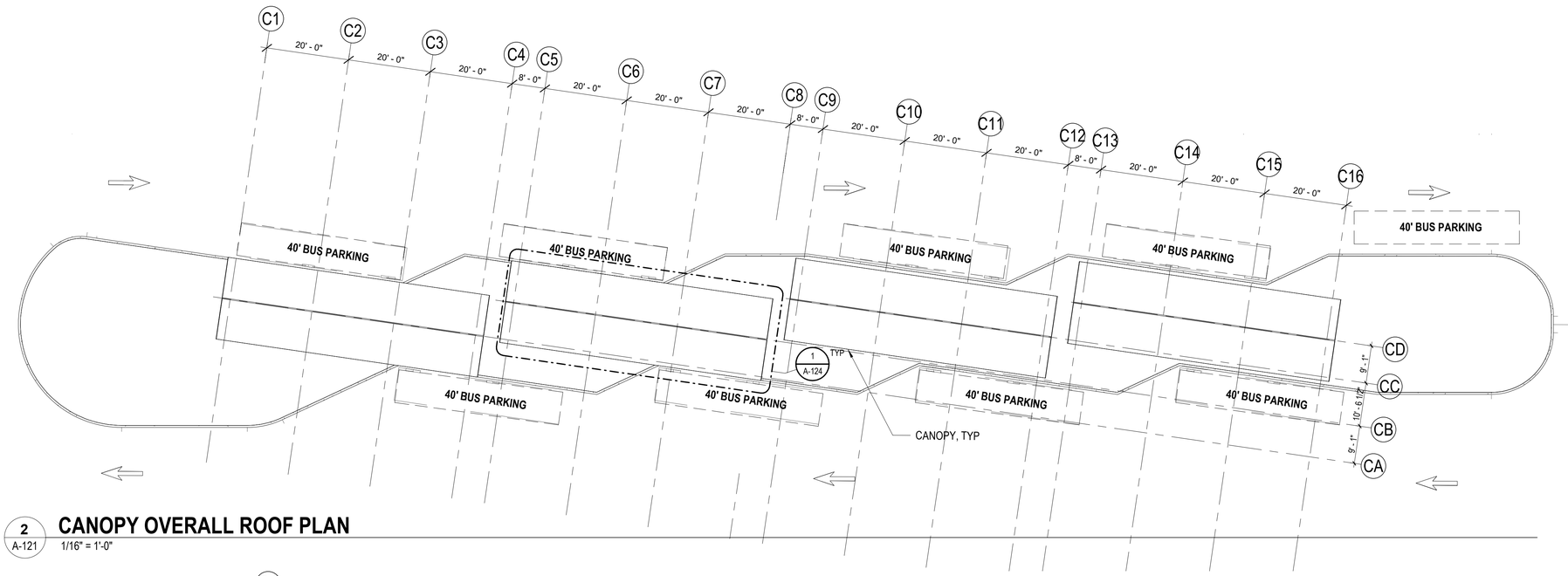
SHEET TITLE:
BUILDING - ROOF PLAN

SHEET: 32 OF 145

BID DELIVERABLE

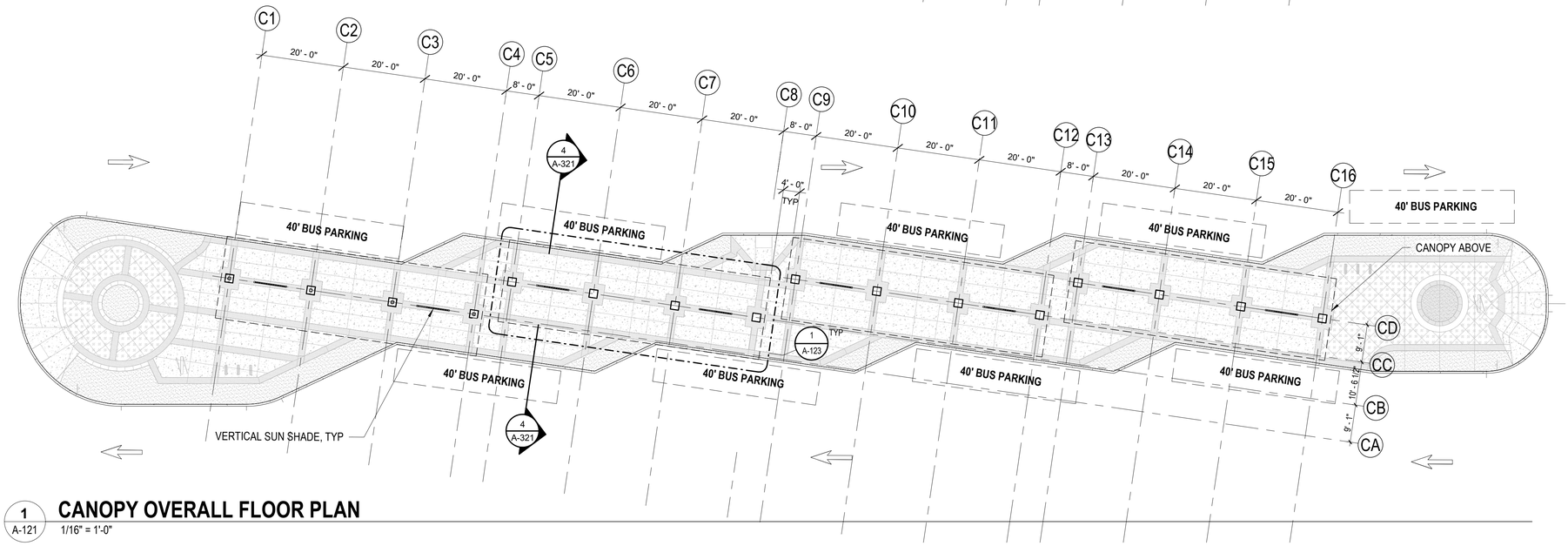
GENERAL PLAN NOTES

A	DO NOT SCALE DRAWINGS.
B	CONTENT NOTED ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
C	ALL MATERIALS AND FINISHES ARE TO COMPLY WITH CALGREEN VOC AND MATERIAL REQUIREMENTS.



2 CANOPY OVERALL ROOF PLAN

A-121 1/16" = 1'-0"



1 CANOPY OVERALL FLOOR PLAN

A-121 1/16" = 1'-0"

0 8' 16' 32'

A-121

NO.	BY:	REVISION COMMENTS

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SEAL: LICENSED ARCHITECT No. C38017 REN 8/31/2025 STATE OF CALIFORNIA

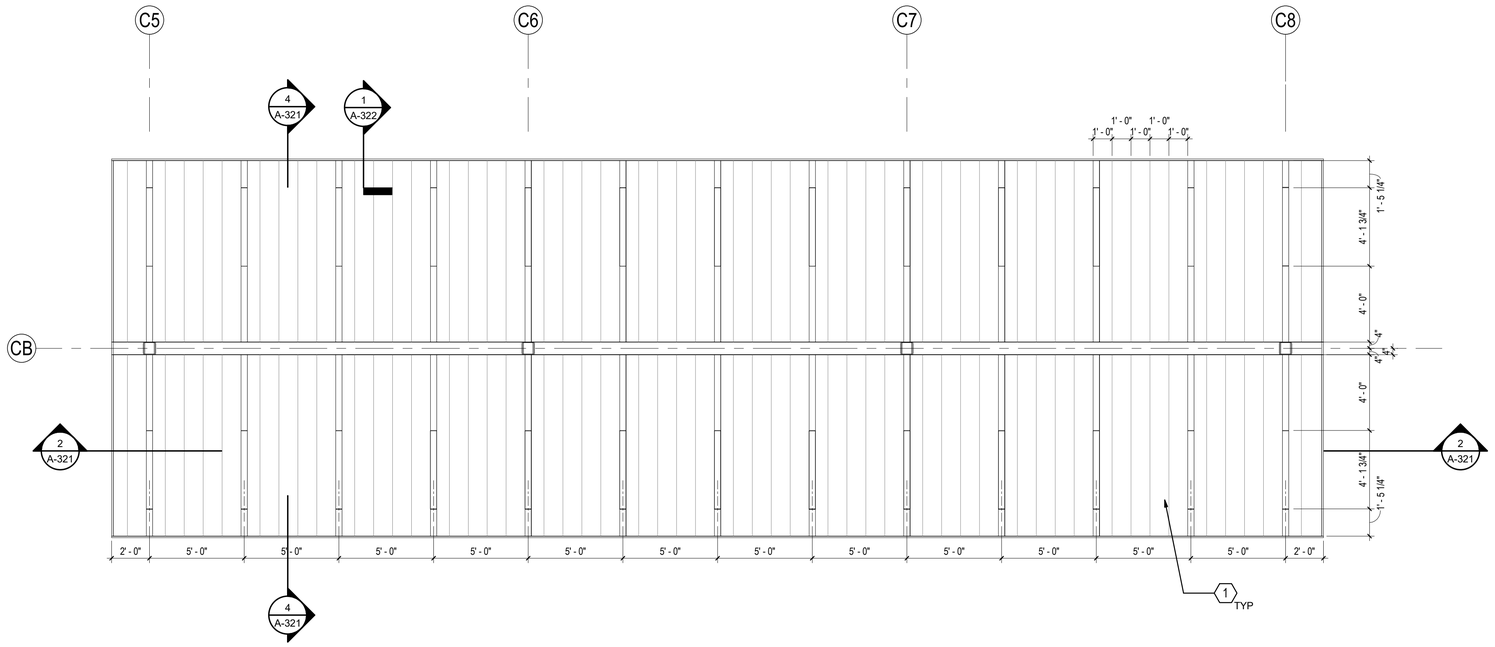
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUS CANOPY - OVERALL PLANS

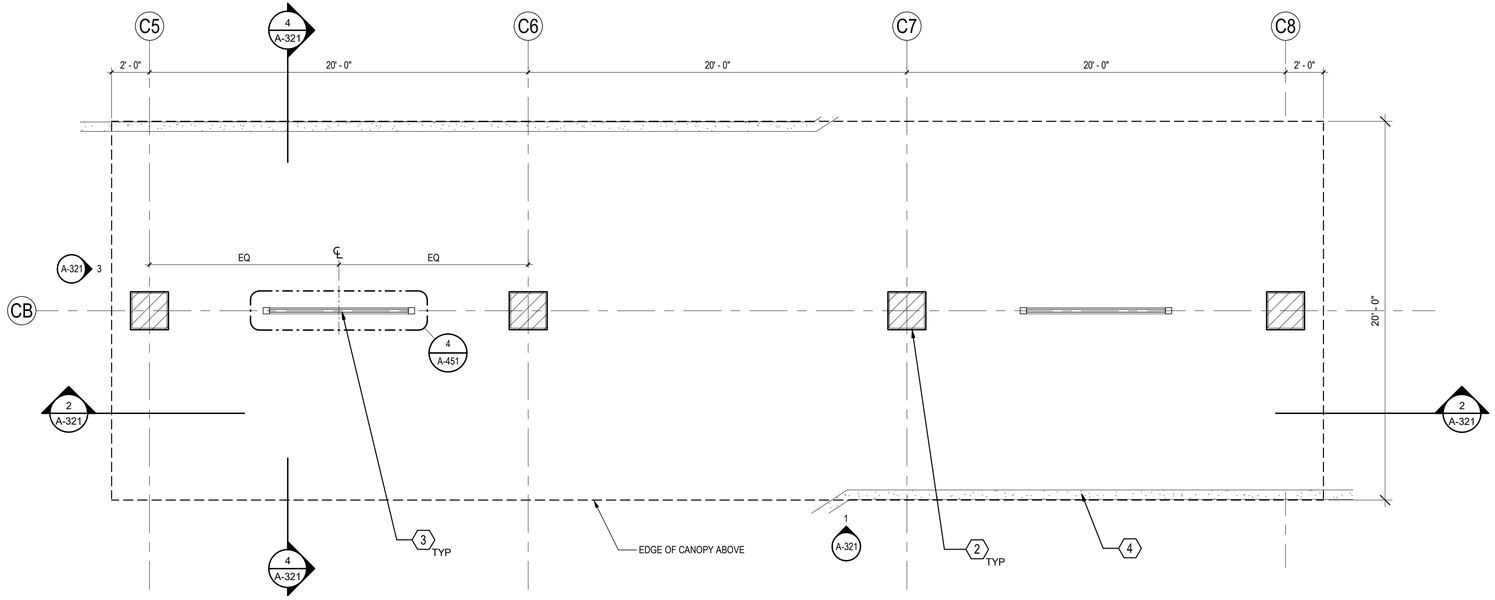
SHEET: 33 OF 145

BID DELIVERABLE



2 CANOPY RCP

A-123 — 1/4" = 1'-0"



1 CANOPY PLAN

A-123 — 1/4" = 1'-0"

GENERAL PLAN NOTES

A	DO NOT SCALE DRAWINGS.
B	CONTENT NOTED ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
C	ALL MATERIALS AND FINISHES ARE TO COMPLY WITH CALGREEN VOC AND MATERIAL REQUIREMENTS.

RCP LEGEND

METAL SOFFIT PANEL

RECESSED LINEAR LED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

KEYNOTES

1	METAL SOFFIT PANEL
2	CONCRETE COLUMN WITH ADHERED BRICK VENEER
3	VERTICAL SUN SHADE
4	6" HIGH CONCRETE CURB, SEE CIVIL DRAWINGS

0 2' 4' 8'

A-123

NO.	BY:	REVISION COMMENTS

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DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUS CANOPY - ENLARGED PLANS

SHEET: 34 OF 145

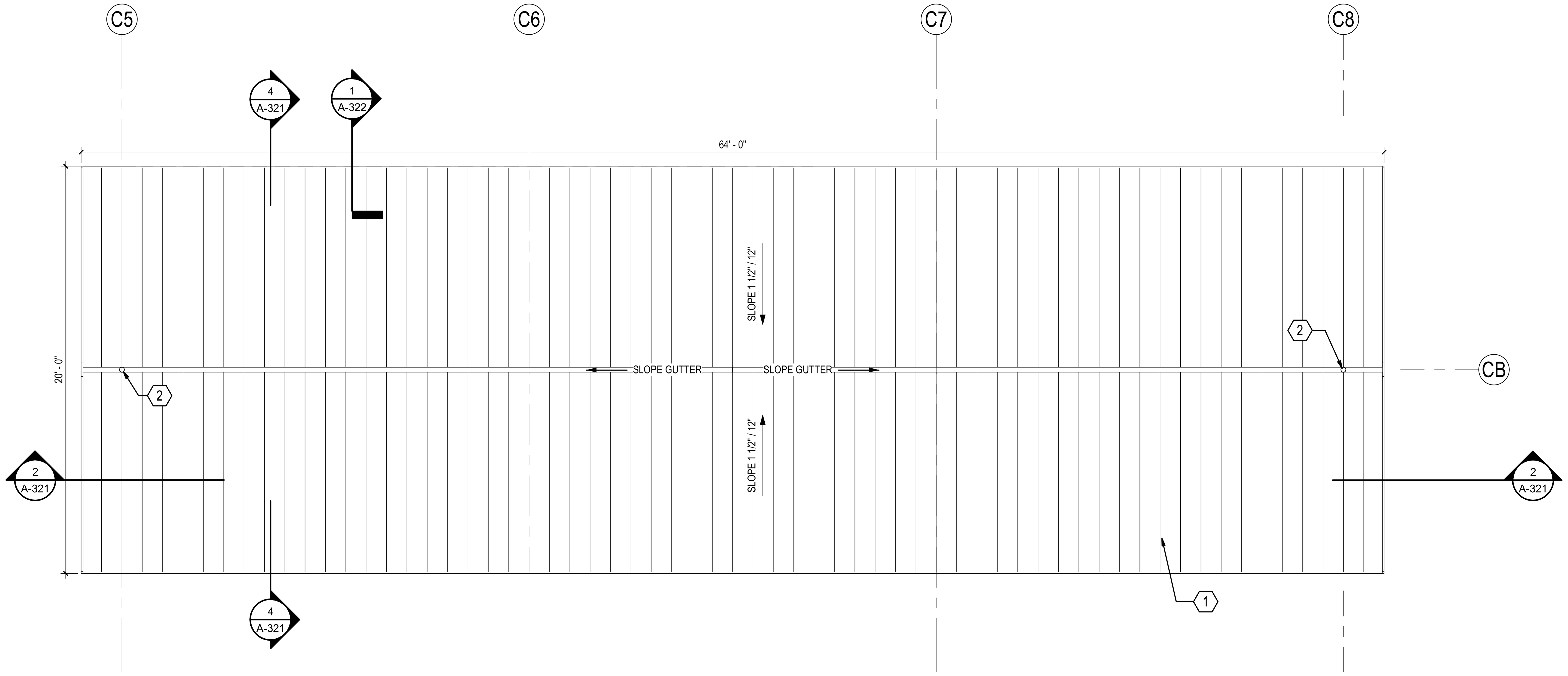
BID DELIVERABLE

GENERAL PLAN NOTES

A	DO NOT SCALE DRAWINGS.
B	CONTENT NOTED ON DRAWING IS NEW UNLESS NOTED OTHERWISE.
C	ALL MATERIALS AND FINISHES ARE TO COMPLY WITH CALGREEN VOC AND MATERIAL REQUIREMENTS.

KEYNOTES

1	METAL ROOF PANEL
2	ROOF DRAINS



1 A-124 **CANOPY ROOF PLAN**
1/4" = 1'-0"

0 2' 4' 8'

A-124

NO.	BY:	REVISION COMMENTS

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ENGINEER DATE

ENGINEER OF WORK:
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SEAL:

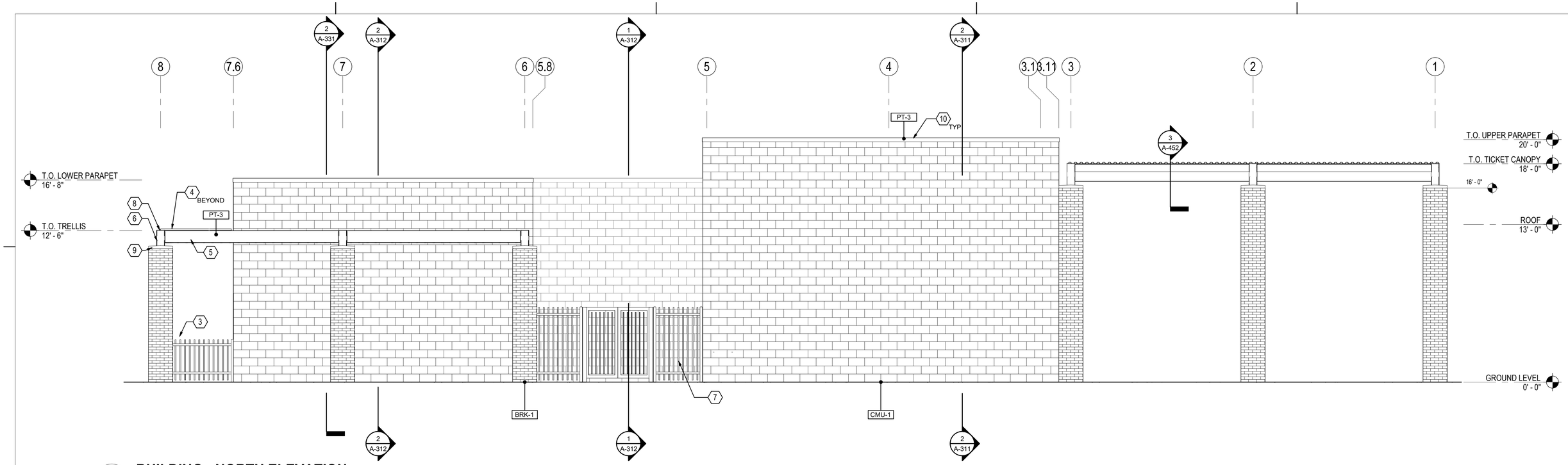
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUS CANOPY- ENLARGED ROOF PLAN

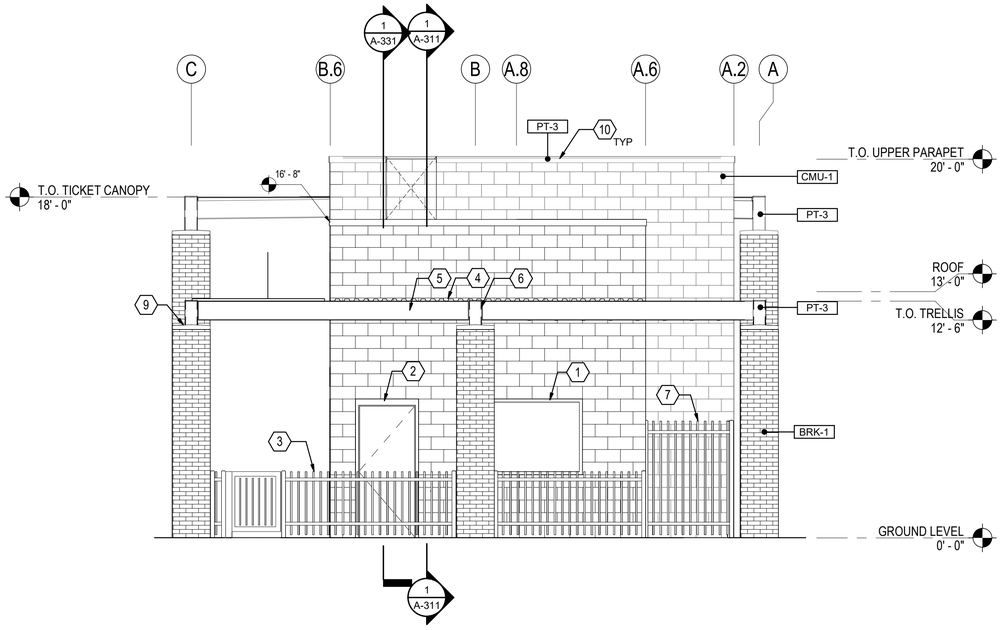
SHEET:
35
OF
145

BID DELIVERABLE



1 BUILDING - NORTH ELEVATION

A-211 — 1/4" = 1'-0"



3 BUILDING - EAST ELEVATION

A-211 — 1/4" = 1'-0"

KEYNOTES

1	ALUMINUM WINDOW, SEE WINDOW SCHEDULE
2	DOOR AND FRAME, SEE DOOR SCHEDULE
3	42" HIGH PICKET FENCE, SEE LANDSCAPE DRAWINGS
4	METAL DECK, GALVANIZED AND PAINTED PT-3
5	HSS BEAM, PAINT TO PT-3, SEE STRUCTURAL
6	COLUMN, SEE STRUCTURAL DRAWINGS
7	6' HIGH PICKET FENCE WITH 36" WIDE GATE, SEE 1/A-451
8	CLOSURE PLATE AT THE TOP OF HSS COLUMN
9	CONCRETE COLUMN CAP
10	COPING FLASHING, GALVANIZED AND PAINTED PT-3

EXTERIOR MATERIAL LEGEND

CMU-1
FULLY GROUTED 8" CONCRETE MASONRY BLOCK
MFR: RCP BLOCK & BRICK, INC.
FINISH: SMOOTH
COLOR: BUFF
GROUT COLOR: TO MATCH CMU

BRK-1
MODULAR FLAT THIN BRICK VENEER
SIZE: 5/8" x 2-1/4" x 7-5/8" (BED DEPTH X HEIGHT X LENGTH)
MFR: MCNEAR, INC.
COLOR: CAMDEN
GROUT COLOR: TO BE DETERMINED

GENERAL NOTES

A REFER TO A-610 FOR DOOR & WINDOW SCHEDULE
B ELEVATIONS SHOWN ARE TO THE TOP OF WALL
C SEE A-600 FOR INTERIOR FINISHES
D REFER TO A-500 FOR EXTERIOR & ROOF DETAILS
E REFER TO A-601 FOR PARTITION TYPES
F SEE STRUCTURAL DRAWINGS FOR ALL SLAB/FOOTING DETAILS, TYP

0 2' 4' 8'

A-211

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
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APPROVED BY: ENGINEER DATE

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SEAL: REGISTERED PROFESSIONAL ENGINEER No. C33012 REN 12/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

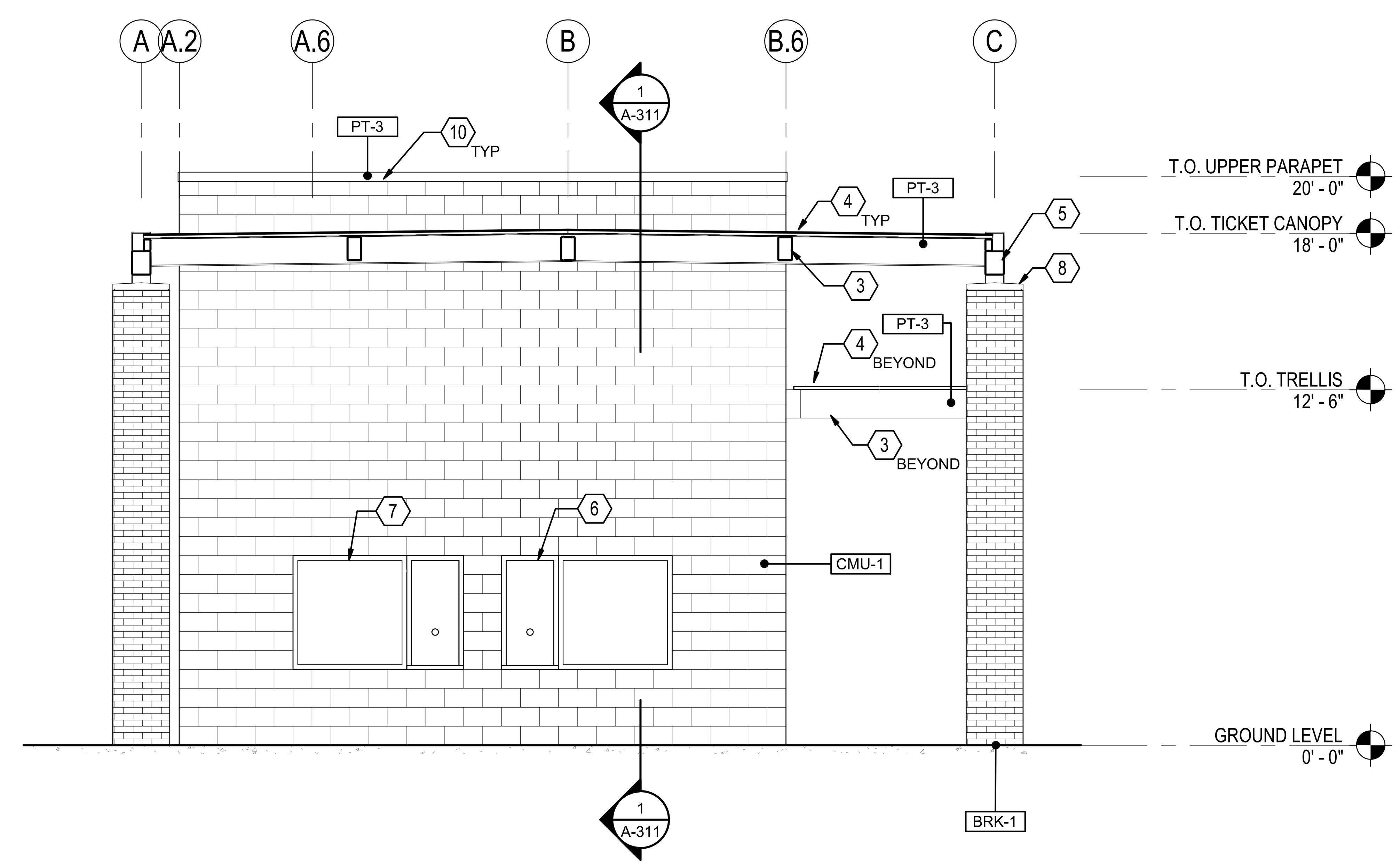
SHEET TITLE: BUILDING - ELEVATIONS

SHEET: 36 OF 145

BID DELIVERABLE

1 A-212 **BUILDING - SOUTH ELEVATION**

1/4" = 1'-0"



2 A-212 **BUILDING - WEST ELEVATION**

1/4" = 1'-0"

KEYNOTES

1	DOOR AND FRAME, SEE DOOR SCHEDULE
2	42" HIGH PICKET FENCE, SEE LANDSCAPE DRAWINGS
3	HSS BEAM, PAINT TO PT-3, SEE STRUCTURAL
4	METAL DECK, GALVANIZED AND PAINTED PT-3
5	COLUMN, SEE STRUCTURAL DRAWINGS
6	WINDOW, TYP - GLASS W/ PAINTED ALUM FRAME
7	TICKETING WINDOW - GLASS W/ PAINTED ALUM FRAME, SEE 3/A-541
8	CONCRETE COLUMN CAP
9	LOUVER PAINT TO MATCH DOOR, SEE DOOR SCHEDULE
10	COPING FLASHING, GALVANIZED AND PAINTED PT-3
11	PRE-FINISHED FIXED LOUVER, SEE MECHANICAL DRAWINGS AND LOUVER SCHEDULE

EXTERIOR MATERIAL LEGEND

CMU-1	FULLY GROUTED 8" CONCRETE MASONRY BLOCK MFR: RCP BLOCK & BRICK, INC. FINISH: SMOOTH COLOR: BUFF GROUT COLOR: TO MATCH CMU
BRK-1	MODULAR FLAT THIN BRICK VENEER SIZE: 5/8" x 2-1/4" x 7-5/8" (BED DEPTH X HEIGHT X LENGTH) MFR: MCNEAR, INC. COLOR: CAMDEN GROUT COLOR: TO BE DETERMINED

GENERAL NOTES

A REFER TO A-610 FOR DOOR & WINDOW SCHEDULE
B ELEVATIONS SHOWN ARE TO THE TOP OF WALL
C SEE A-600 FOR INTERIOR FINISHES
D REFER TO A-500 FOR EXTERIOR & ROOF DETAILS
E REFER TO A-601 FOR PARTITION TYPES
F SEE STRUCTURAL DRAWINGS FOR ALL SLAB/FOOTING DETAILS, TYP

0 2' 4' 8'

A-212

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
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APPROVED BY:
ENGINEER DATE

SEAL:

APPROVED BY:
ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL:
LICENSED ARCHITECT
STATE OF CALIFORNIA

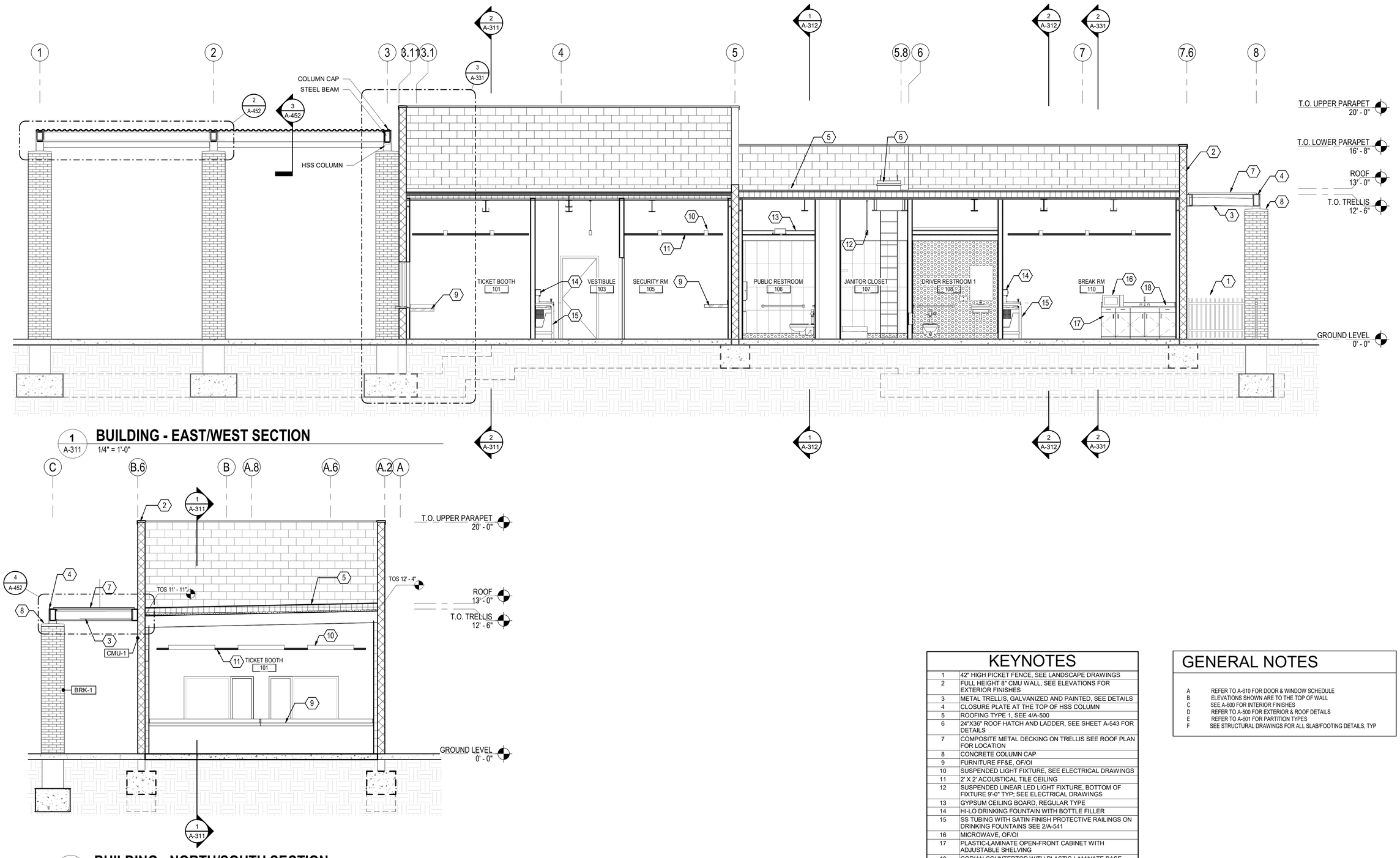
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUILDING - ELEVATIONS

SHEET:
37 OF 145

BID DELIVERABLE



1 BUILDING - EAST/WEST SECTION

A-311 — 1/4" = 1'-0"

2 BUILDING - NORTH/SOUTH SECTION

A-311 — 1/4" = 1'-0"

KEYNOTES

1	42" HIGH PICKET FENCE, SEE LANDSCAPE DRAWINGS
2	FULL HEIGHT 8" CMU WALL, SEE ELEVATIONS FOR EXTERIOR FINISHES
3	METAL TRELLIS, GALVANIZED AND PAINTED, SEE DETAILS
4	CLOSURE PLATE AT THE TOP OF HSS COLUMN
5	ROOFING TYPE 1, SEE 4/A-500
6	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
7	COMPOSITE METAL DECKING ON TRELLIS SEE ROOF PLAN FOR LOCATION
8	CONCRETE COLUMN CAP
9	FURNITURE FF&E, OF/OI
10	SUSPENDED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
11	2' X 2' ACOUSTICAL TILE CEILING
12	SUSPENDED LINEAR LED LIGHT FIXTURE, BOTTOM OF FIXTURE 9'-0" TYP; SEE ELECTRICAL DRAWINGS
13	GYPSUM CEILING BOARD, REGULAR TYPE
14	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER
15	SS TUBING WITH SATIN FINISH PROTECTIVE RAILINGS ON DRINKING FOUNTAINS SEE 2/A-541
16	MICROWAVE, OF/OI
17	PLASTIC-LAMINATE OPEN-FRONT CABINET WITH ADJUSTABLE SHELVING
18	CORIAN COUNTERTOP WITH PLASTIC-LAMINATE BASE CABINETS

GENERAL NOTES

A	REFER TO A-610 FOR DOOR & WINDOW SCHEDULE
B	ELEVATIONS SHOWN ARE TO THE TOP OF WALL
C	SEE A-600 FOR INTERIOR FINISHES
D	REFER TO A-500 FOR EXTERIOR & ROOF DETAILS
E	REFER TO A-601 FOR PARTITION TYPES
F	SEE STRUCTURAL DRAWINGS FOR ALL SLAB/FOOTING DETAILS, TYP

0 2' 4' 8'

A-311

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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608 Heber Avenue Calexico, CA 92231 Tel:760.768.2100 Fax:760.768.0854
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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

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SEAL: LICENSED ARCHITECT No. C30017 REN: 8/31/2025 STATE OF CALIFORNIA

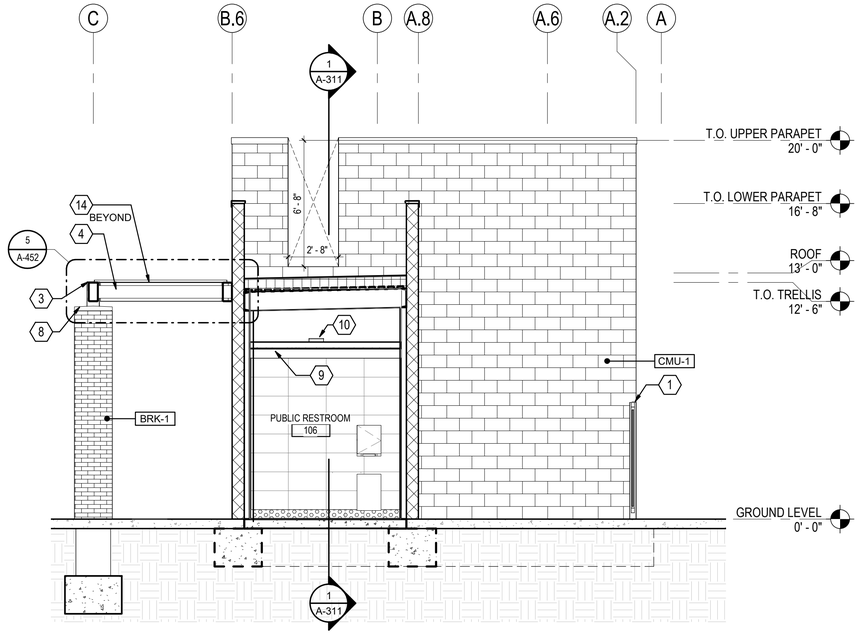
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUILDING - SECTIONS

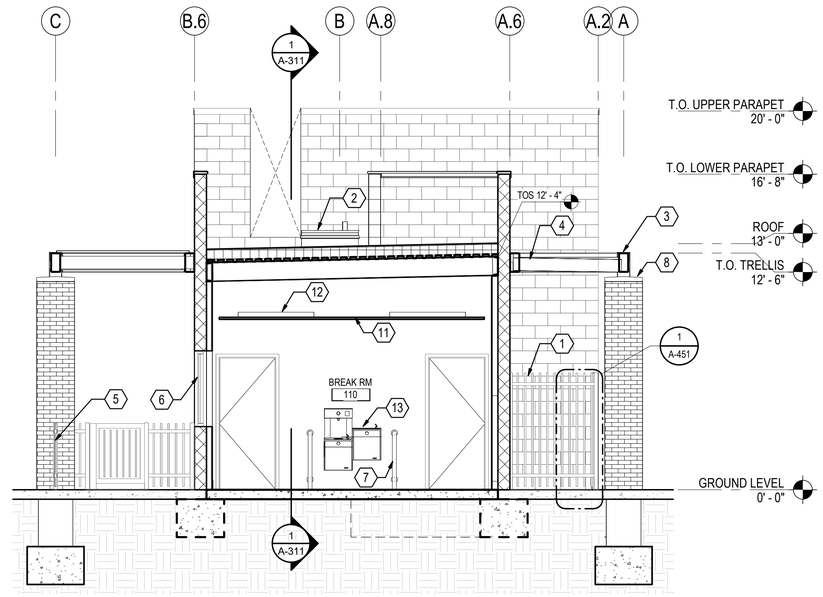
SHEET: 38 OF 145

BID DELIVERABLE



1 BUILDING - NORTH/SOUTH SECTION

A-312 1/4" = 1'-0"



2 BUILDING - NORTH/SOUTH SECTION

A-312 1/4" = 1'-0"

KEYNOTES

1	6' HIGH PICKET FENCE WITH 36" WIDE GATE, SEE 1/A-451
2	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
3	CLOSURE PLATE AT THE TOP OF HSS COLUMN
4	HSS BEAM, PAINT TO PT-3, SEE STRUCTURAL
5	42" HIGH PICKET FENCE, SEE LANDSCAPE DRAWINGS
6	ALUMINUM WINDOW, SEE WINDOW SCHEDULE
7	SS TUBING WITH SATIN FINISH PROTECTIVE RAILINGS ON DRINKING FOUNTAINS SEE 2/A-541
8	CONCRETE COLUMN CAP
9	GYPSUM CEILING BOARD, REGULAR TYPE
10	RECESSED DOWNLIGHT, SEE ELECTRICAL DRAWINGS
11	2' X 2' ACOUSTICAL TILE CEILING
12	SUSPENDED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
13	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER
14	METAL DECK, GALVANIZED AND PAINTED PT-3

GENERAL NOTES

A	REFER TO A-610 FOR DOOR & WINDOW SCHEDULE
B	ELEVATIONS SHOWN ARE TO THE TOP OF WALL
C	SEE A-600 FOR INTERIOR FINISHES
D	REFER TO A-500 FOR EXTERIOR & ROOF DETAILS
E	REFER TO A-601 FOR PARTITION TYPES
F	SEE STRUCTURAL DRAWINGS FOR ALL SLAB/FOOTING DETAILS, TYP

0 2' 4' 8'

A-312

NO.	BY:	REVISION COMMENTS

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APPROVED BY:

ENGINEER DATE

SEAL:

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ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL:
REGISTERED PROFESSIONAL ENGINEER
No. C33017
REN 5/31/2025
STATE OF CALIFORNIA

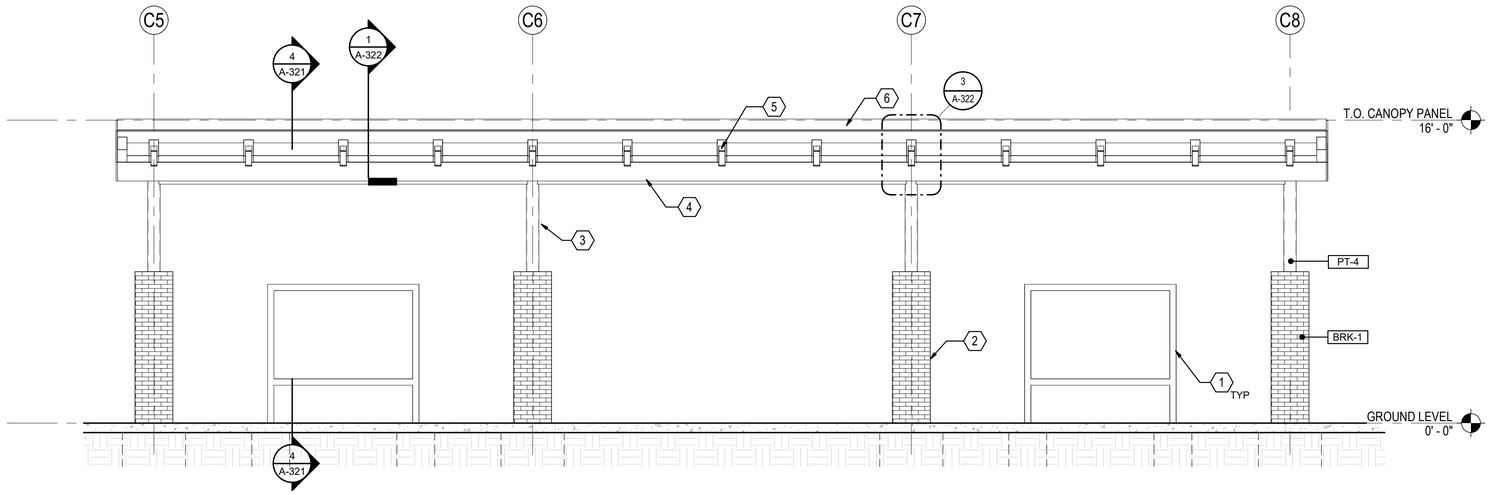
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUILDING - SECTIONS

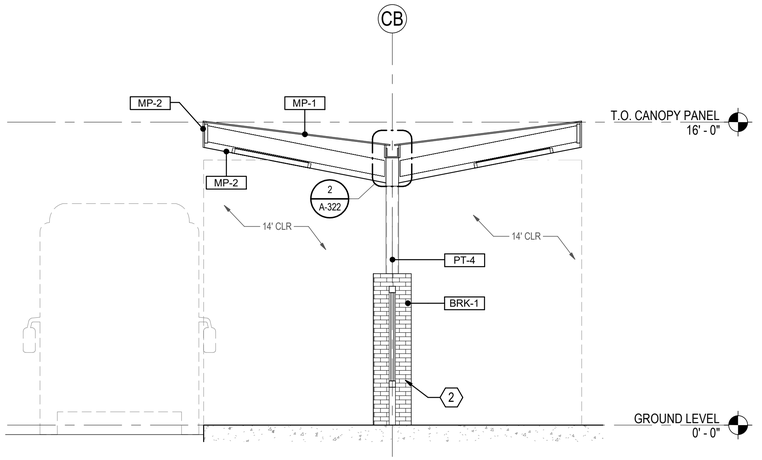
SHEET:
39
OF
145

BID DELIVERABLE



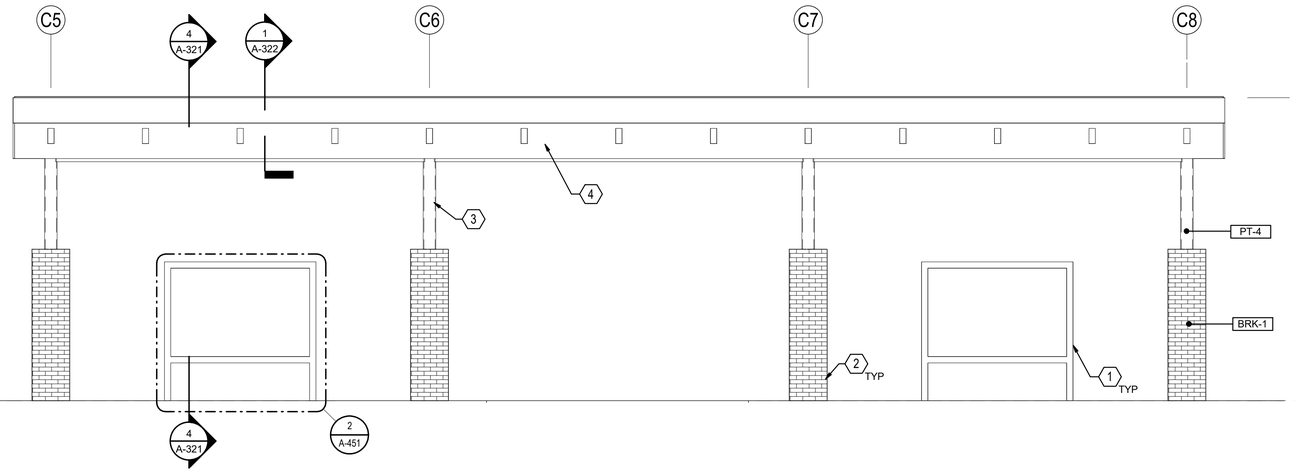
2 CANOPY - NORTH/SOUTH SECTION

2 A-321 — 1/4" = 1'-0"



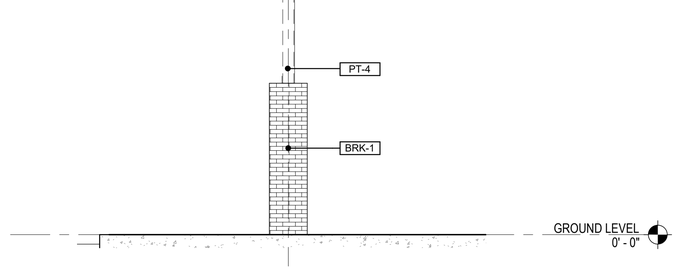
4 CANOPY - EAST/WEST SECTION 1

4 A-321 — 1/4" = 1'-0"



1 CANOPY - NORTH/SOUTH ELEVATION

1 A-321 — 1/4" = 1'-0"



3 CANOPY - EAST/WEST ELEVATION

3 A-321 — 1/4" = 1'-0"

KEYNOTES

1	VERTICAL SUN SHADE
2	CONCRETE COLUMN WITH ADHERED BRICK VENEER
3	COLUMN, SEE STRUCTURAL DRAWINGS
4	METAL SOFFIT PANEL
5	RECESSED LINEAR LED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
6	METAL ROOF PANEL

EXTERIOR MATERIAL LEGEND

MP-1
CONCEALED - FASTENER ROOF METAL PANEL
MFR: MORIN
SERIES:SYMMETRY ROOF SERIES
NO CLIP RELIEF
ORIENTATION: VERTICAL
COLOR: SILVERSMITH
SIZE: 12" NOMINAL

MP-2
CONCEALED - FASTENER METAL SOFFIT PANEL
MFR: MORIN
SERIES:PRIMO SOFFIT PANEL
NO REVEAL PS-12-F (SMOOTH)
ORIENTATION: VERTICAL
COLOR: SILVERSMITH
SIZE: 12" NOMINAL

BRK-1
MODULAR FLAT THIN BRICK VENEER
SIZE: 5/8" x 2-1/4" x 7-5/8" (BED DEPTH X HEIGHT X LENGTH)
MFR: MCNEAR, INC.
COLOR: CAMDEN
GROUT COLOR: TO BE DETERMINED

0 2' 4' 8'

A-321

NO.	BY:	REVISION COMMENTS

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APPROVED BY: ENGINEER DATE

SEAL:

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SEAL: LICENSED ARCHITECT No. C28017 REN 5/31/2025 STATE OF CALIFORNIA

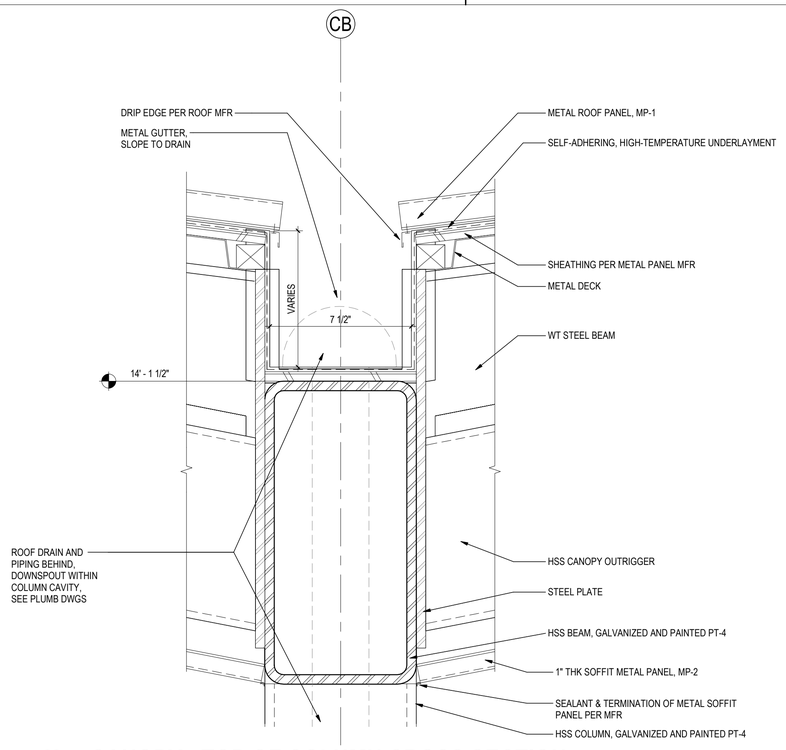
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUS CANOPY - ELEVATIONS AND SECTIONS

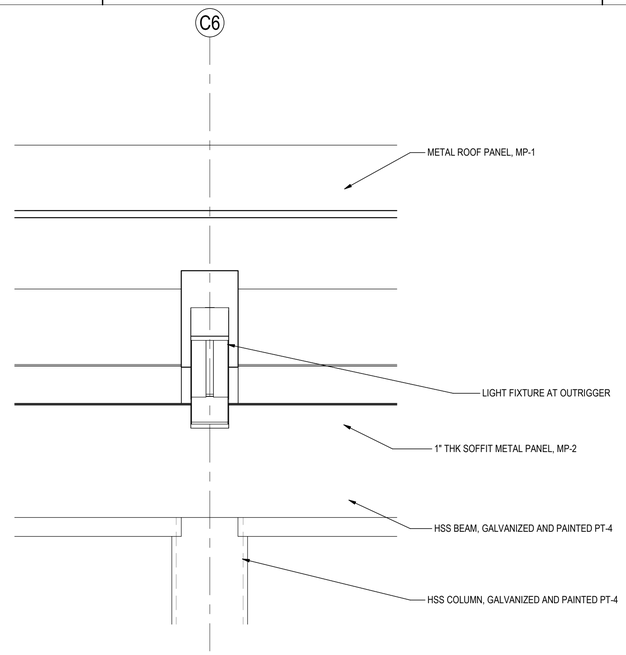
SHEET: 40 OF 145

BID DELIVERABLE



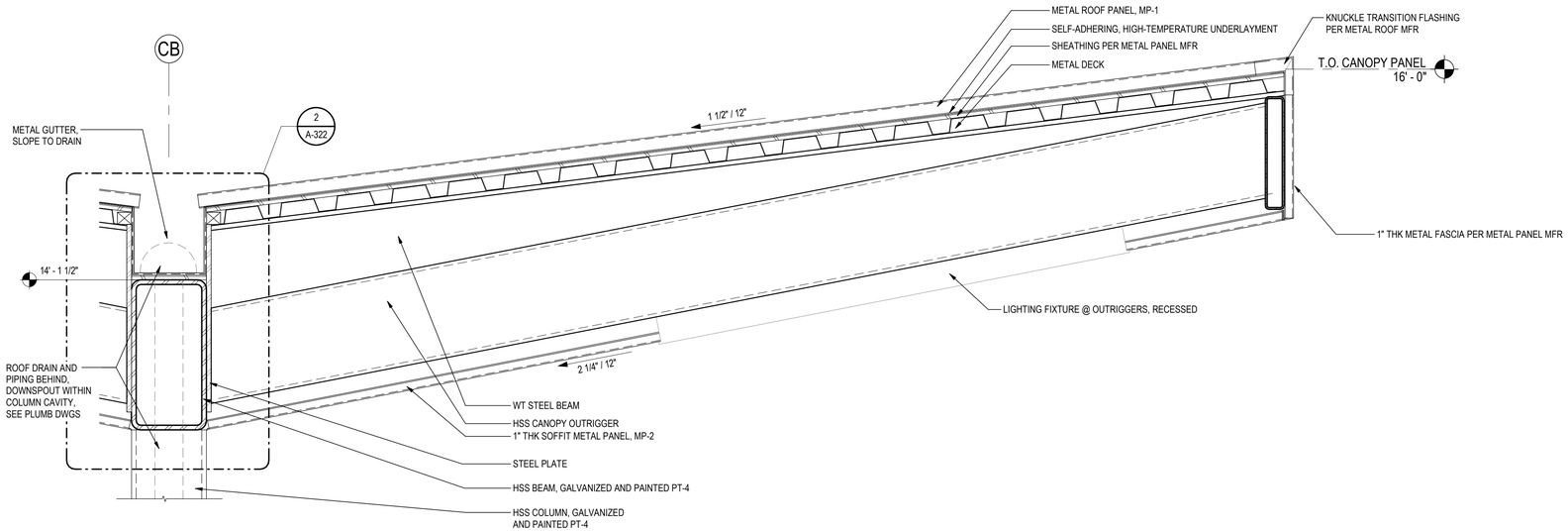
2 A-322 CANOPY - TOP OF COLUMN CROSS SECTION

3" = 1'-0"



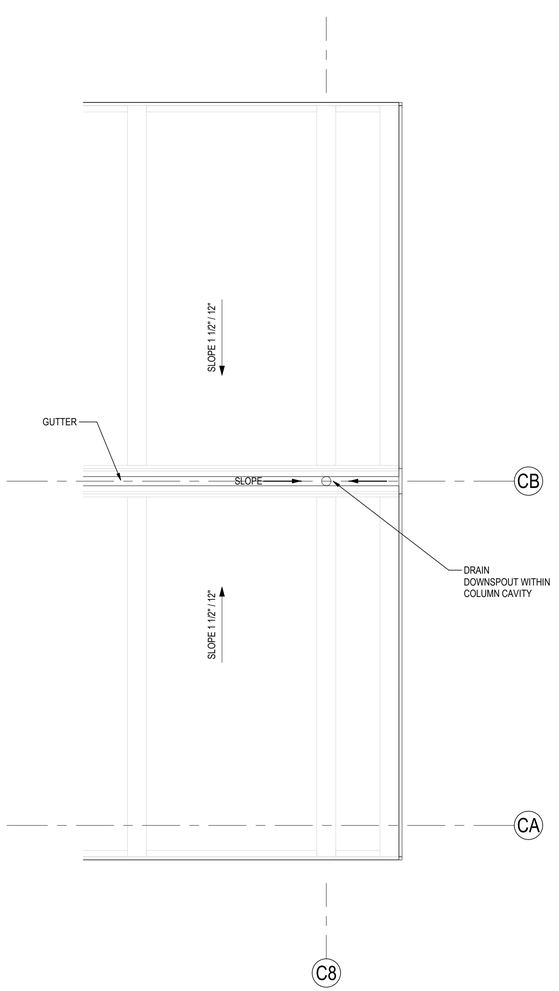
3 A-322 CANOPY - OUTRIGGER CROSS SECTION

1 1/2" = 1'-0"



1 A-322 BUS CANOPY - ENLARGED CANOPY SECTION

1 1/2" = 1'-0"



4 A-322 CANOPY - ROOF DRAINAGE PLAN

1/2" = 1'-0"

A-322

NO.	BY:	REVISION COMMENTS

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APPROVED BY: ENGINEER DATE

SEAL:

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DRAWN BY: JA
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DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUS CANOPY - DETAILS

SHEET: 41 OF 145

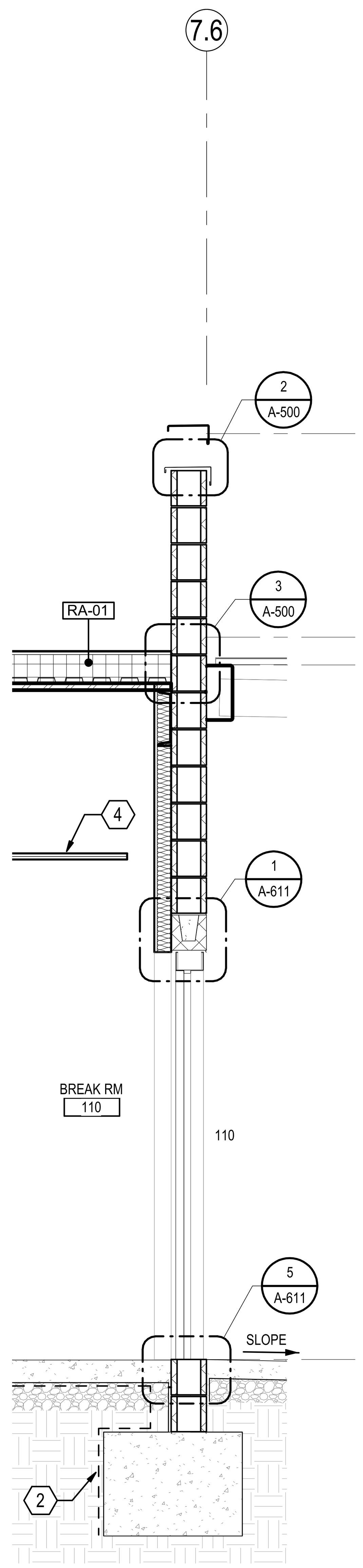
BID DELIVERABLE

GENERAL NOTES

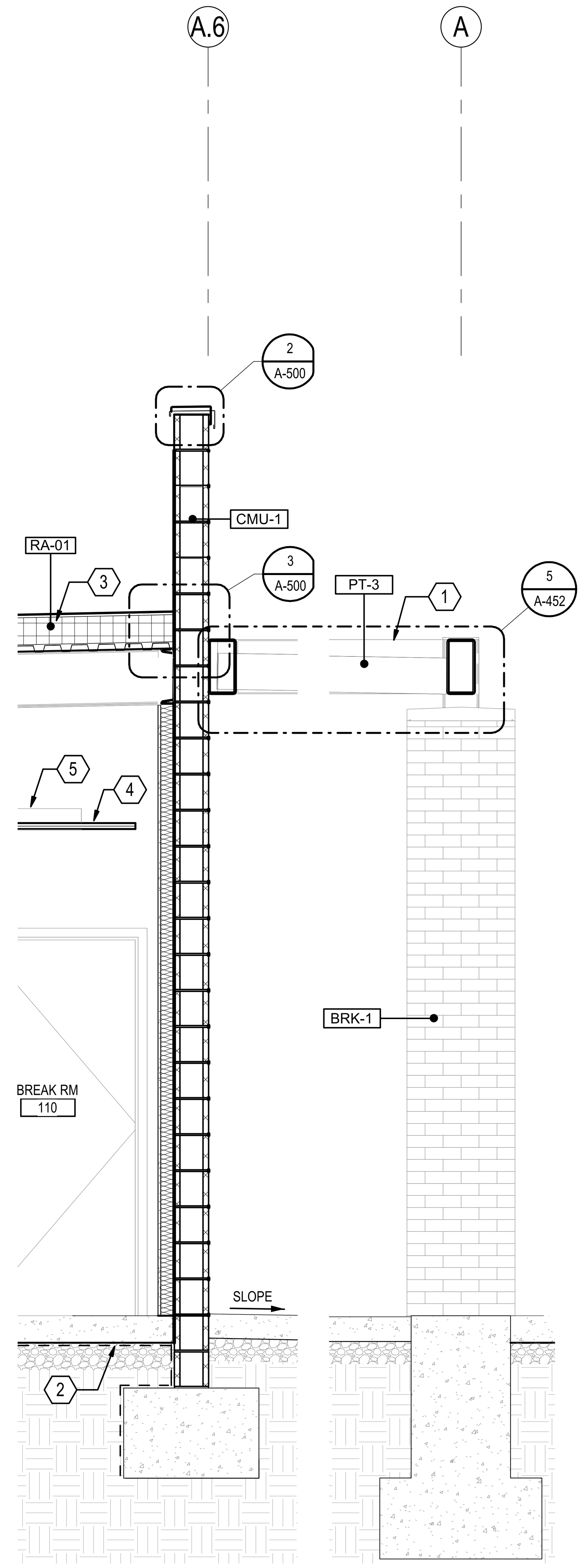
A	REFER TO A-610 FOR DOOR & WINDOW SCHEDULE
B	ELEVATIONS SHOWN ARE TO THE TOP OF WALL
C	SEE A-600 FOR INTERIOR FINISHES
D	REFER TO A-500 FOR EXTERIOR & ROOF DETAILS
E	REFER TO A-601 FOR PARTITION TYPES
F	SEE STRUCTURAL DRAWINGS FOR ALL SLAB/FOOTING DETAILS, TYP

KEYNOTES

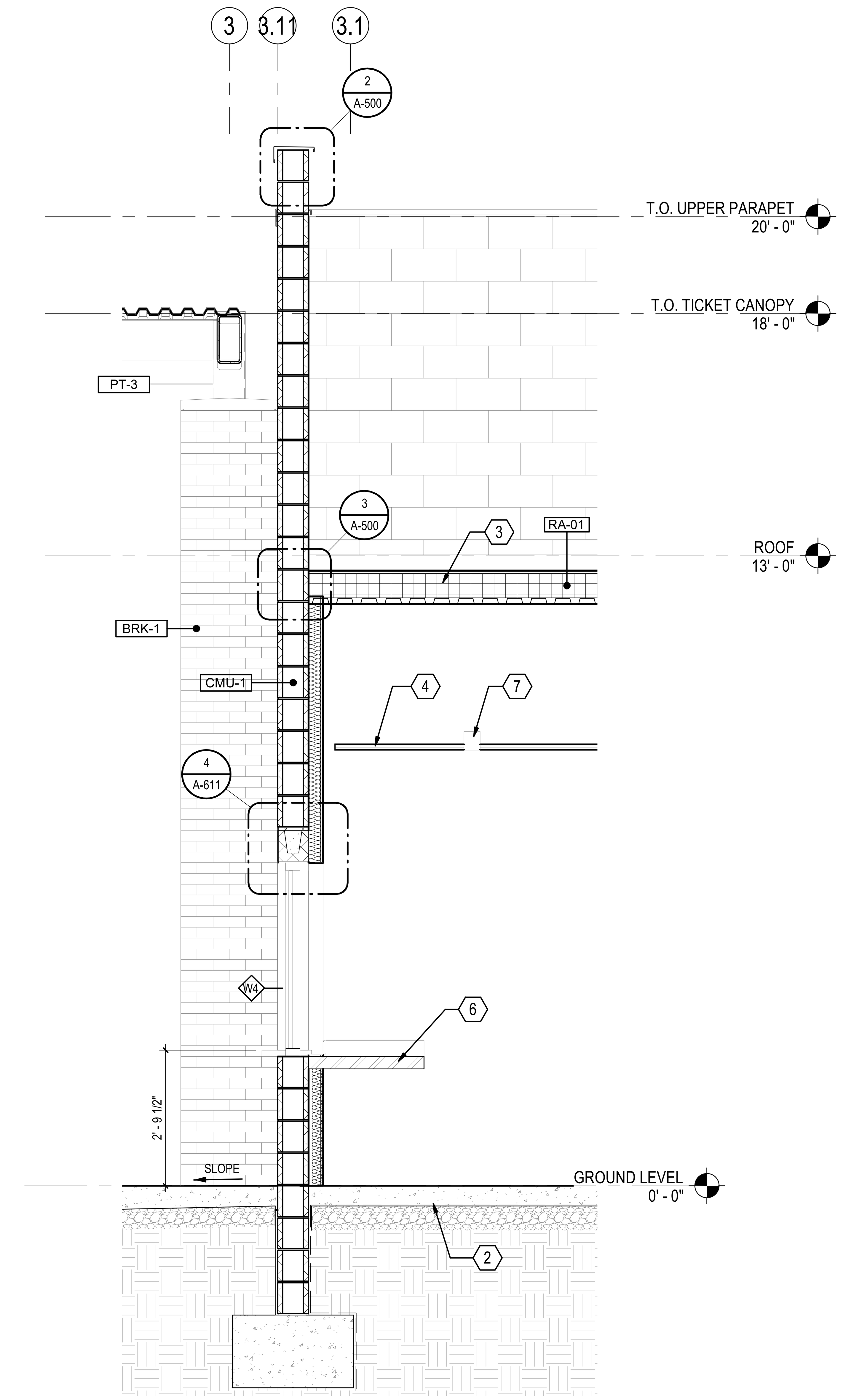
1	HSS BRACE, PAINT TO MATCH EXISTING ADJACENT STRUCTURE; SEE STRUCTURAL DRAWINGS
2	BELOW-GRADE VAPOR RETARDER, TYP
3	ROOFING TYPE 1, SEE 4/A-500
4	2' X 2' ACOUSTICAL TILE CEILING
5	RECESSED LINEAR LED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
6	FURNITURE FF&E, OF/OI
7	SUSPENDED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS



1 A-331 **WALL SECTION**
1/2" = 1'-0"



2 A-331 **WALL SECTION**
1/2" = 1'-0"



3 A-331 **WALL SECTION**
1/2" = 1'-0"

0 1' 2' 4'

A-331

NO.	BY:	REVISION COMMENTS

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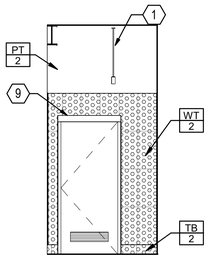
FILE NAME:
LAST REVISED:

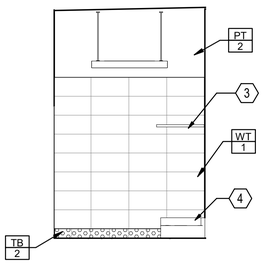
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUILDING - WALL SECTIONS

SHEET:
42
OF
145

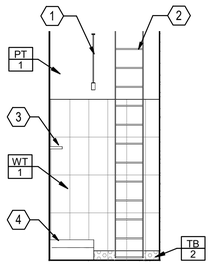
BID DELIVERABLE





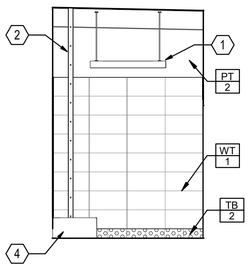
11 A-400 JANITOR CLOSET 107 - SOUTH

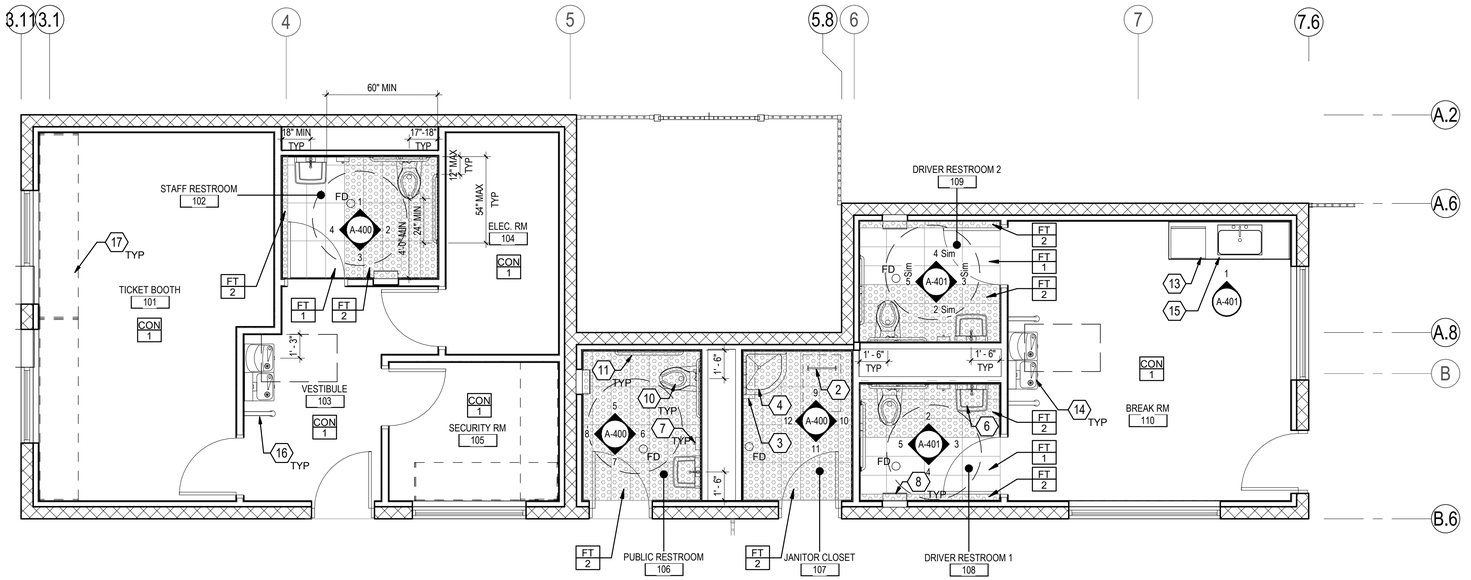
1/4" = 1'-0"



12 A-400 JANITOR CLOSET 107 - WEST

1/4" = 1'-0"



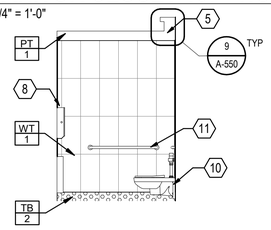


19 A-400 INTERIOR PLAN

1/4" = 1'-0"

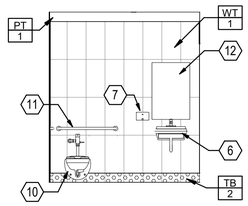
9 A-400 JANITOR CLOSET 107 - NORTH

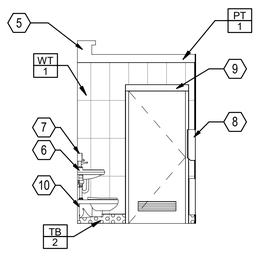
1/4" = 1'-0"

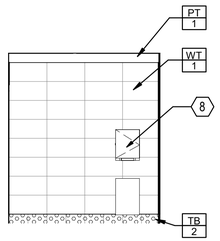


10 A-400 JANITOR CLOSET 107 - EAST

1/4" = 1'-0"

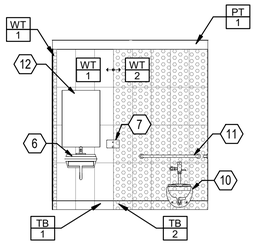






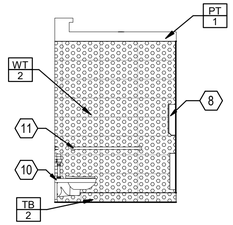
5 A-400 PUBLIC RESTROOM 106 - NORTH

1/4" = 1'-0"



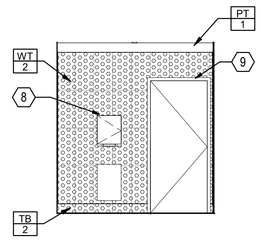
6 A-400 PUBLIC RESTROOM 106 - EAST

1/4" = 1'-0"



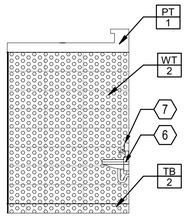
7 A-400 PUBLIC RESTROOM 106 - SOUTH

1/4" = 1'-0"



8 A-400 PUBLIC RESTROOM 106 - WEST

1/4" = 1'-0"



1 A-400 STAFF RESTROOM 104 - NORTH

1/4" = 1'-0"

2 A-400 STAFF RESTROOM 104 - EAST

1/4" = 1'-0"

3 A-400 STAFF RESTROOM 104 - SOUTH

1/4" = 1'-0"

4 A-400 STAFF RESTROOM 104 - WEST

1/4" = 1'-0"

KEYNOTES

1	SUSPENDED LINEAR LED LIGHT FIXTURE, BOTTOM OF FIXTURE 9'-0" TYP; SEE ELECTRICAL DRAWINGS
2	24"X36" ROOF HATCH AND LADDER, SEE SHEET A-543 FOR DETAILS
3	MOP SHELF
4	FLOOR MOUNTED MOP SINK
5	PERIMETER LED COVE LIGHT FIXTURE PER DETAIL 9/A-550, SEE ELECTRICAL DRAWINGS
6	LAVATORY, WALL HUNG
7	LIQUID SOAP DISPENSER
8	RECESSED COMBINATION PAPER ROLL DISPENSER/WASTE RECEPTACLE
9	DOOR AND FRAME, SEE DOOR SCHEDULE
10	WALL MOUNTED WATER CLOSET, ADA COMPLIANT
11	GRAB BARS: 36" (BACK WALL), 42" (SIDE WALL) TYP
12	24" WIDE X 36" HIGH MIRROR
13	MICROWAVE, OF/OI
14	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER
15	CORIAN COUNTERTOP WITH PLASTIC-LAMINATE BASE CABINETS
16	SS TUBING WITH SATIN FINISH PROTECTIVE RAILINGS ON DRINKING FOUNTAINS SEE 2/A-541
17	FURNISHINGS, OF/OI

GENERAL INT. ELEVATION NOTES

A	REFER TO A-001, AND A-002 FOR PROJECT GENERAL NOTES, REFERENCE AND MATERIAL SYMBOLS, AND ABBREVIATIONS USED ON THIS DRAWING.
B	REFER TO A-051, A-052, A-053, AND A-054 FOR STANDARD MOUNTING HEIGHTS INCLUDING, BUT NOT LIMITED TO, SIZES, LOCATIONS AND MOUNTING HEIGHTS OF ADA GRAB BARS AND OTHER TOILET ACCESSORIES.
C	CONTRACTOR TO PROVIDE BLOCKING/BACKING PLATES PER STRUCTURAL DWGS AS REQUIRED IN PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT.
D	NOT ALL TOILET ACCESSORIES ARE KEYNOTED IN EACH DRAWING. IF TOILET ACCESSORY IS NOTED IN ONE LOCATION IT IS TO BE ASSUMED TO BE REQUIRED IN ALL OTHER SIMILAR LOCATIONS AND APPLICATIONS.
E	REFER TO SHEET A-112 FOR LIGHT FIXTURE TYPES
F	PROVIDE ALL NEW TOILET ACCESSORIES PER SPECIFICATIONS
G	ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL HAVE SELF-CLOSING DOOR. DOOR PULLS SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
H	ALL EXPOSED TILE EDGES TO HAVE METAL EDGE STRIPS PER 'CERMAIC TILING' SPECIFICATION.
I	REFER TO A-600 FOR INTERIOR FINISH SCHEDULE AND LEGEND

0 2' 4' 8'

A-400

NO.	BY:	REVISION COMMENTS

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COMMUNITY DEVELOPMENT DEPARTMENT
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608 Heber Avenue Calexico, CA 92231 Tel:760.768.2100 Fax:760.768.9854
engineering@calexico.ca.gov www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
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Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C28017 REN 8/31/2025 STATE OF CALIFORNIA

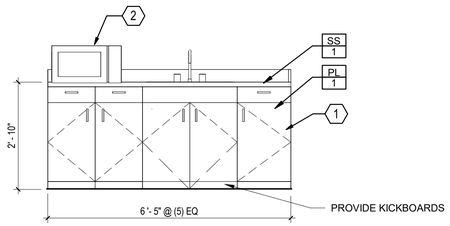
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

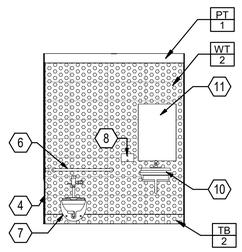
SHEET TITLE: BUILDING - INTERIOR PLANS & ELEVATIONS

SHEET: 43 OF 145

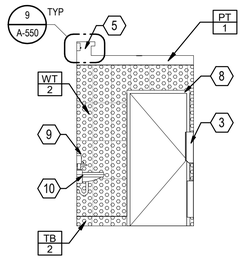
BID DELIVERABLE



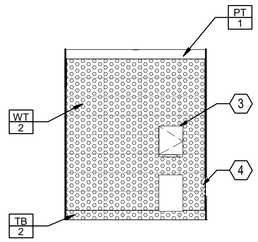
1 BREAK ROOM 110 - NORTH
A-401 — 1/2" = 1'-0"



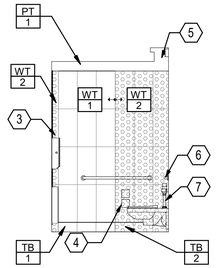
2 DRIVER RESTROOM 108 - NORTH
A-401 — 1/4" = 1'-0" (DRIVER RESTROOM 109 SIM)



3 DRIVER RESTROOM 108 - EAST
A-401 — 1/4" = 1'-0" (DRIVER RESTROOM 109 SIM)



4 DRIVER RESTROOM 108 - SOUTH
A-401 — 1/4" = 1'-0" (DRIVER RESTROOM 109 SIM)



5 DRIVER RESTROOM 108 - WEST
A-401 — 1/4" = 1'-0" (DRIVER RESTROOM 109 SIM)

KEYNOTES

1	CORIAN COUNTERTOP WITH PLASTIC-LAMINATE BASE CABINETS
2	MICROWAVE, OF/OI
3	RECESSED COMBINATION PAPER ROLL DISPENSER/WASTE RECEPTACLE
4	RECESSED COMBINATION TOILET SEAT COVER DISPENSER, SANITARY NAPKIN DISPOSAL AND TOILET TISSUE DISPENSER
5	PERIMETER LED COVE LIGHT FIXTURE PER DETAIL 9/A-550, SEE ELECTRICAL DRAWINGS
6	GRAB BARS: 36" (BACK WALL), 42" (SIDE WALL) TYP
7	WALL MOUNTED WATER CLOSET, ADA COMPLIANT
8	DOOR AND FRAME, SEE DOOR SCHEDULE
9	LIQUID SOAP DISPENSER
10	LAVATORY, WALL HUNG
11	24" WIDE X 36" HIGH MIRROR

GENERAL INT. ELEVATION NOTES

A	REFER TO A-001, AND A-002 FOR PROJECT GENERAL NOTES, REFERENCE AND MATERIAL SYMBOLS, AND ABBREVIATIONS USED ON THIS DRAWING.
B	REFER TO A-051, A-052, A-053, AND A-054 FOR STANDARD MOUNTING HEIGHTS INCLUDING, BUT NOT LIMITED TO, SIZES, LOCATIONS AND MOUNTING HEIGHTS OF ADA GRAB BARS AND OTHER TOILET ACCESSORIES.
C	CONTRACTOR TO PROVIDE BLOCKING/BACKING PLATES PER STRUCTURAL DWGS AS REQUIRED IN PARTITIONS FOR ALL WALL MOUNTED EQUIPMENT.
D	NOT ALL TOILET ACCESSORIES ARE KEYNOTED IN EACH DRAWING. IF TOILET ACCESSORY IS NOTED IN ONE LOCATION IT IS TO BE ASSUMED TO BE REQUIRED IN ALL OTHER SIMILAR LOCATIONS AND APPLICATIONS.
E	REFER TO SHEET A-112 FOR LIGHT FIXTURE TYPES
F	PROVIDE ALL NEW TOILET ACCESSORIES PER SPECIFICATIONS
G	ACCESSIBLE WATER CLOSET COMPARTMENTS SHALL HAVE SELF-CLOSING DOOR. DOOR PULLS SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
H	ALL EXPOSED TILE EDGES TO HAVE METAL EDGE STRIPS PER 'CERMAIC TILING' SPECIFICATION.
I	REFER TO A-600 FOR INTERIOR FINISH SCHEDULE AND LEGEND

0 2' 4' 8'

A-401

NO.	BY:	REVISION COMMENTS

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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

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ENGINEER OF WORK:
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SEAL: LICENSED ARCHITECT — No. C30017 — REN 8/31/2025 — STATE OF CALIFORNIA

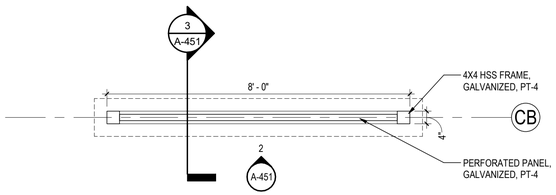
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

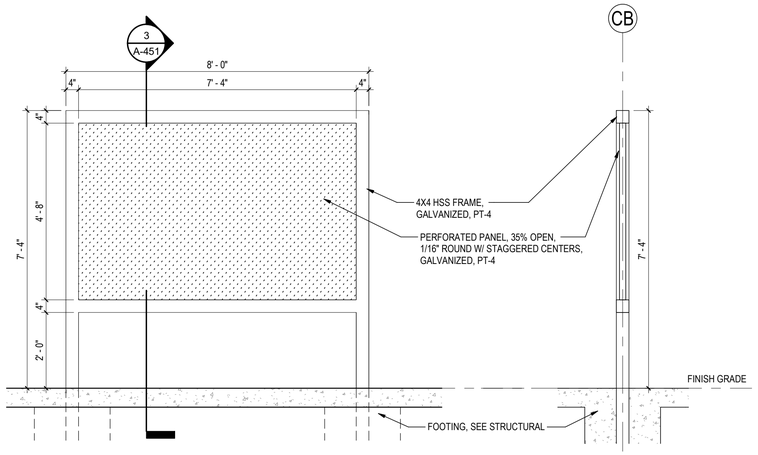
SHEET TITLE: BUILDING - INTERIOR ELEVATIONS

SHEET: 44 OF 145

BID DELIVERABLE

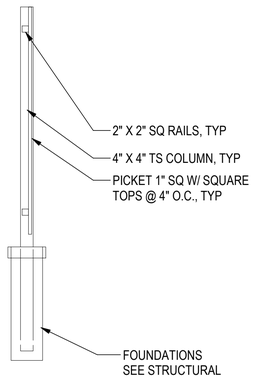


4 SUN SHADE - PLAN
A-451 1/2" = 1'-0"

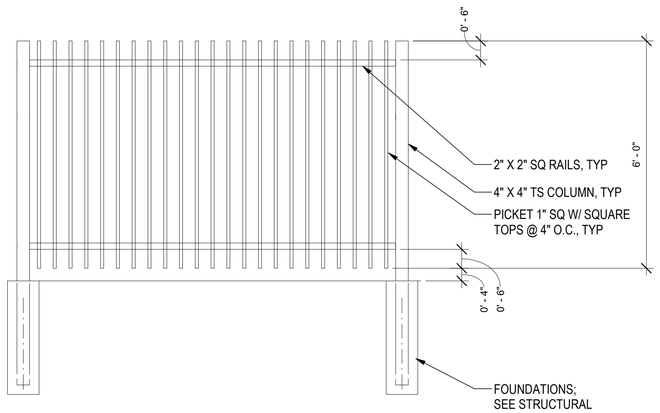


2 SUN SHADE - ELEVATION
A-451 1/2" = 1'-0"

3 SUN SHADE - SECTION
A-451 1/2" = 1'-0"



SIDE ELEVATIONS



FRONT ELEVATION

NOTE: STEEL PICKET FENCE COLOR TO BE MATCHED WITH LANDSCAPE 42" HI FENCE

1 FENCE DETAILS
A-451 1/2" = 1'-0"

A-451

NO.	BY:	REVISION COMMENTS

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ENGINEER DATE

SEAL:

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SEAL:

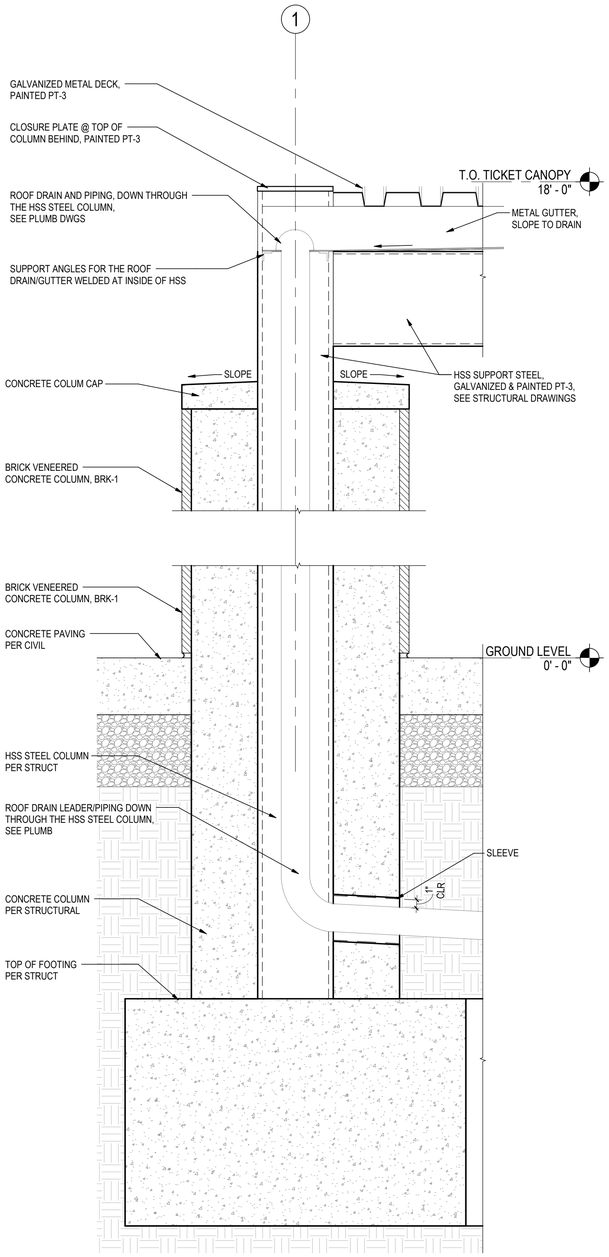

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

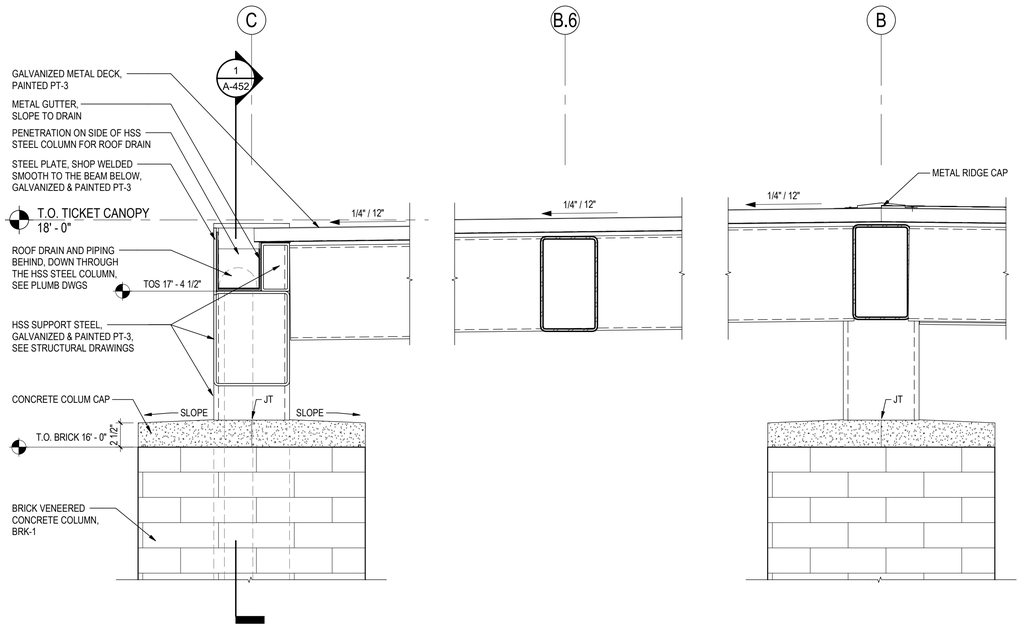
SHEET TITLE:
SITE ELEMENTS - FENCING & MISC

SHEET:
45
OF
145

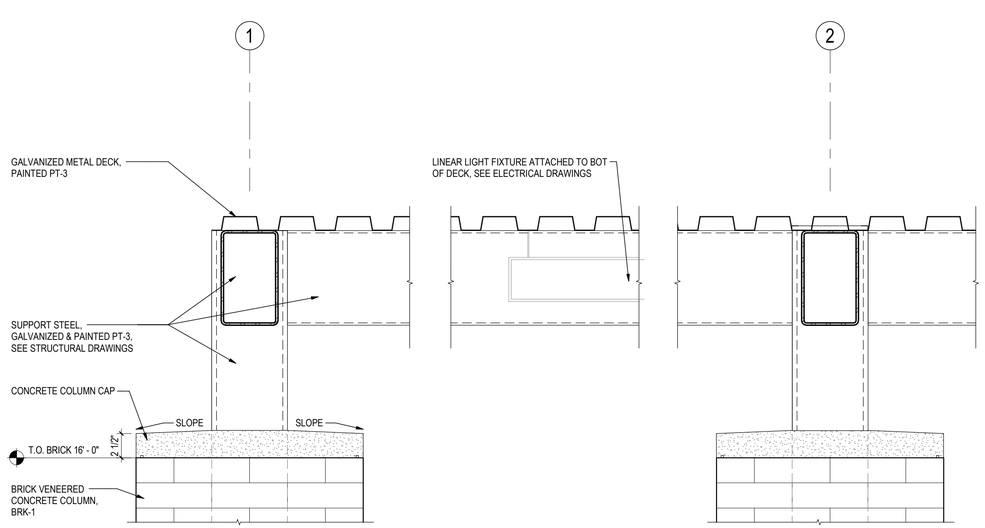
BID DELIVERABLE



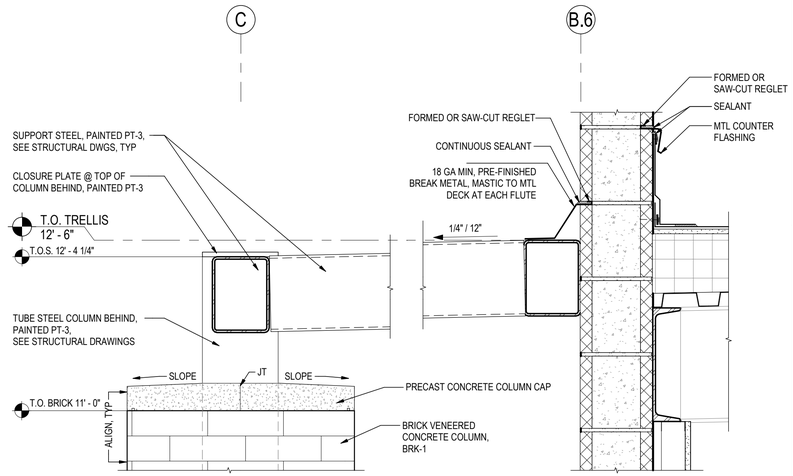
1 A-452 **SHADE CANOPY - DRAINAGE DETAIL**
1 1/2" = 1'-0"



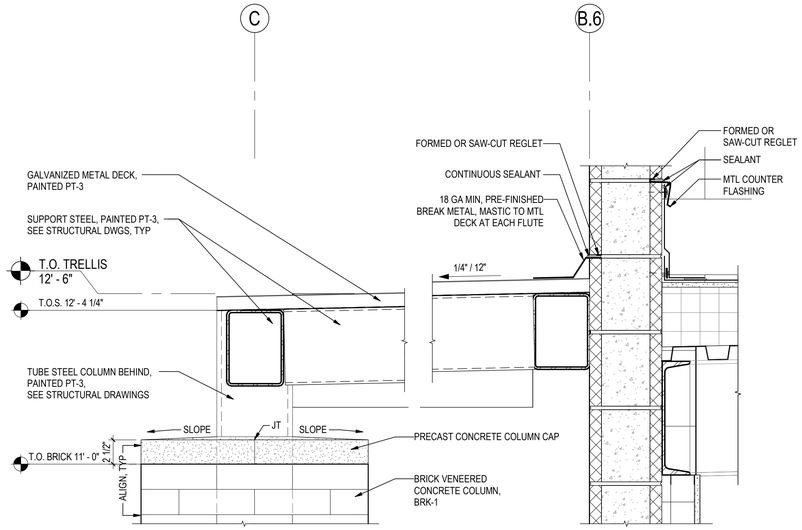
3 A-452 **SHADE CANOPY - CONCEALED GUTTER DETAIL**
1 1/2" = 1'-0"



2 A-452 **SHADE CANOPY - DETAIL**
1 1/2" = 1'-0"



5 A-452 **TRELLIS - DETAIL**
1 1/2" = 1'-0"



4 A-452 **TRELLIS W/ DECK - DETAIL**
1 1/2" = 1'-0"

A-452

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
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ENGINEER DATE

SEAL:

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ENGINEER DATE

ENGINEER OF WORK:
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801 S. Figueroa Street, Suite 300
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Tel: (213) 955-9775 www.stantec.com

SEAL:
LICENSED LANDSCAPE ARCHITECT No. C38017 REN. 08/31/2025 STATE OF CALIFORNIA

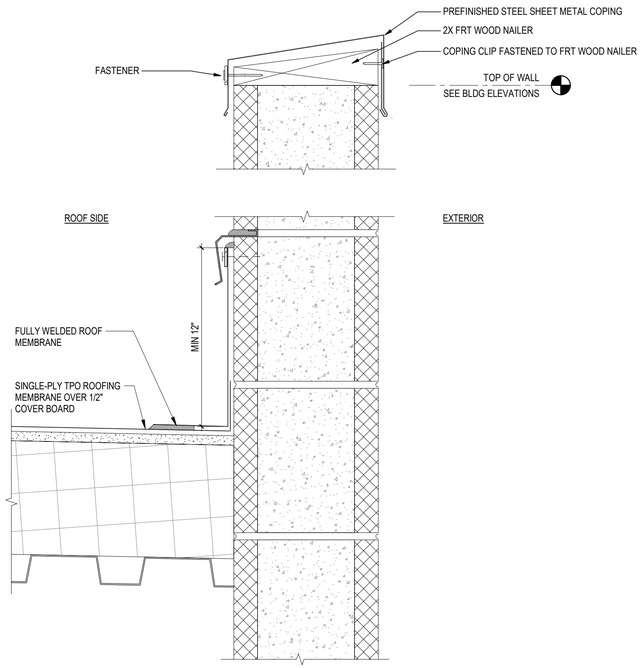
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TRELLIS & SHADE CANOPY DETAILS

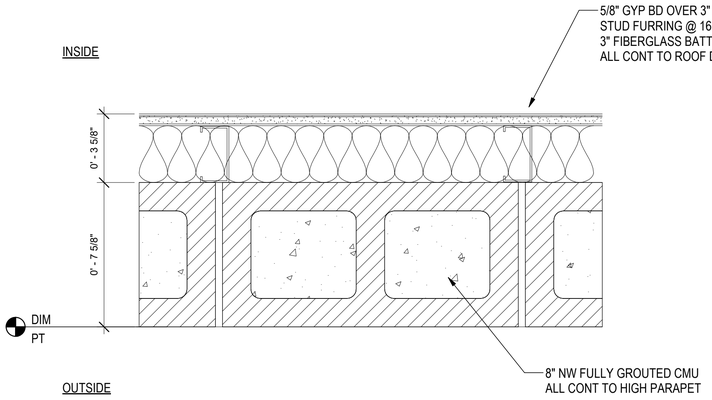
SHEET:
46
OF
145

BID DELIVERABLE



2 COPING AT CMU

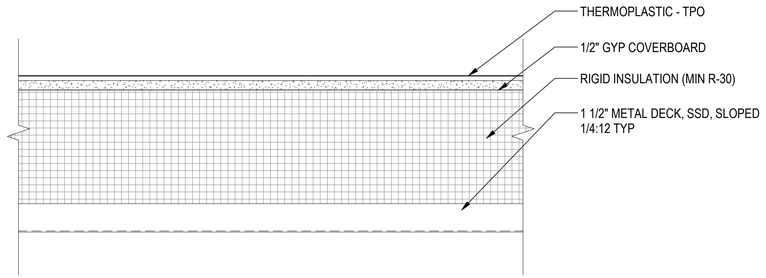
A-500 — 3" = 1'-0"



EXTERIOR WALL CMU-1 — NO FIRE RATING

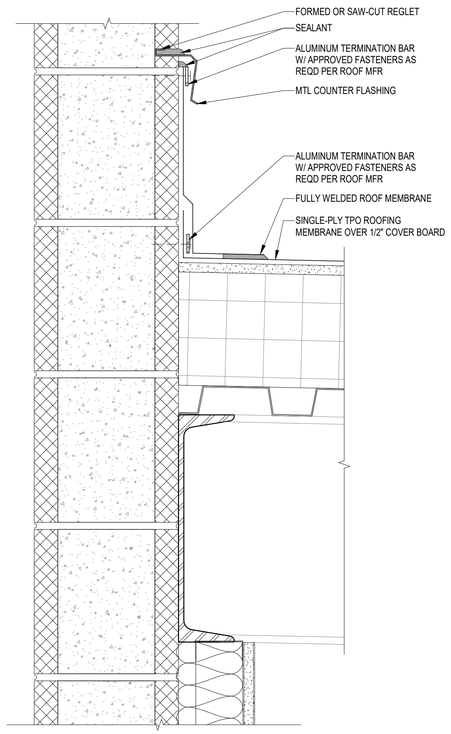
1 EXTERIOR WALL TYPES

A-500 — 3" = 1'-0"



4 ROOF ASSEMBLY

A-500 — 3" = 1'-0"



3 ROOF AT CMU

A-500 — 3" = 1'-0"

A-500

NO.	BY:	REVISION COMMENTS

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engineering@calexico.ca.gov www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C28017 REN 8/31/2025 STATE OF CALIFORNIA

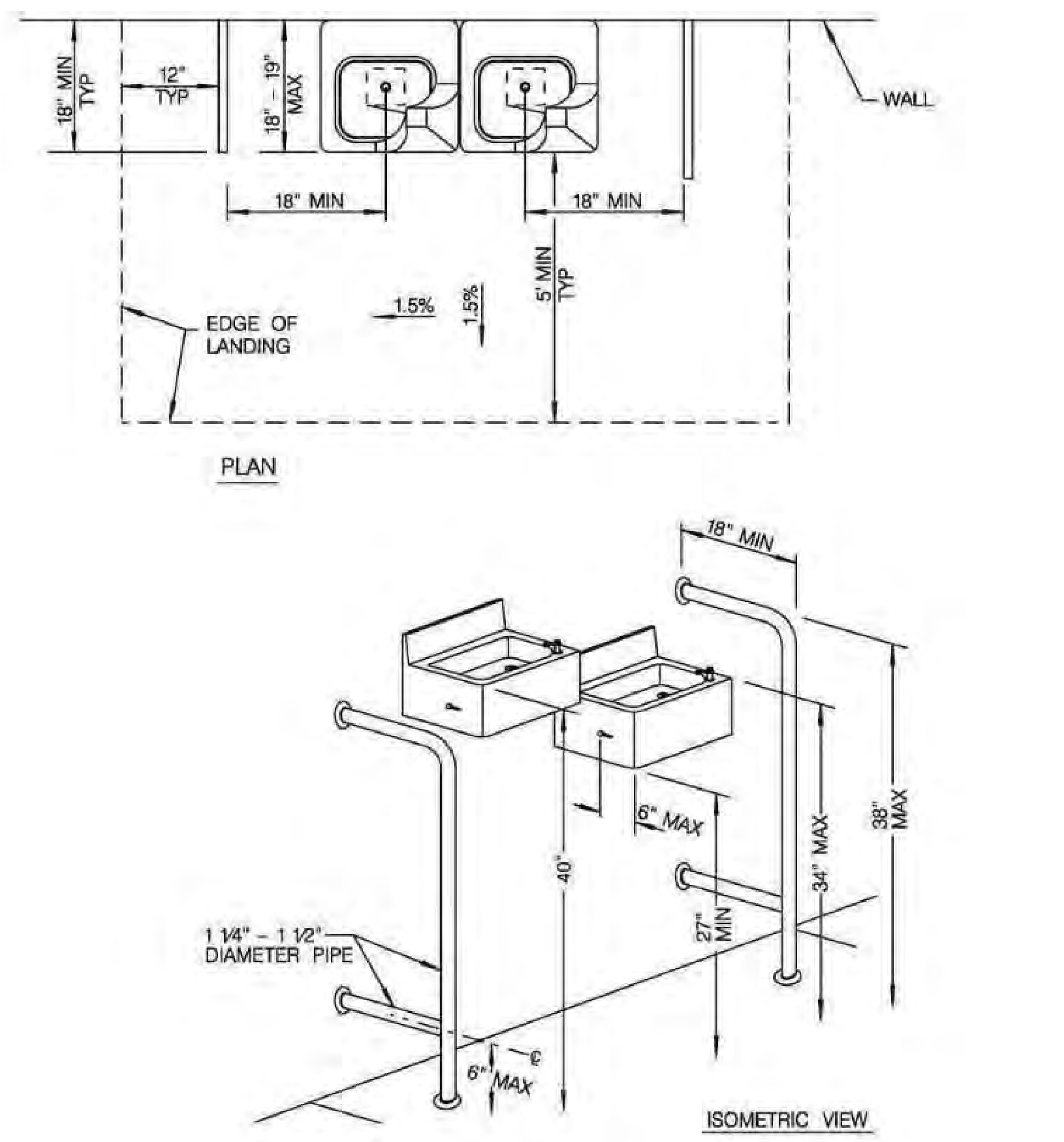
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: EXTERIOR & ROOF DETAILS

SHEET: 47 OF 145

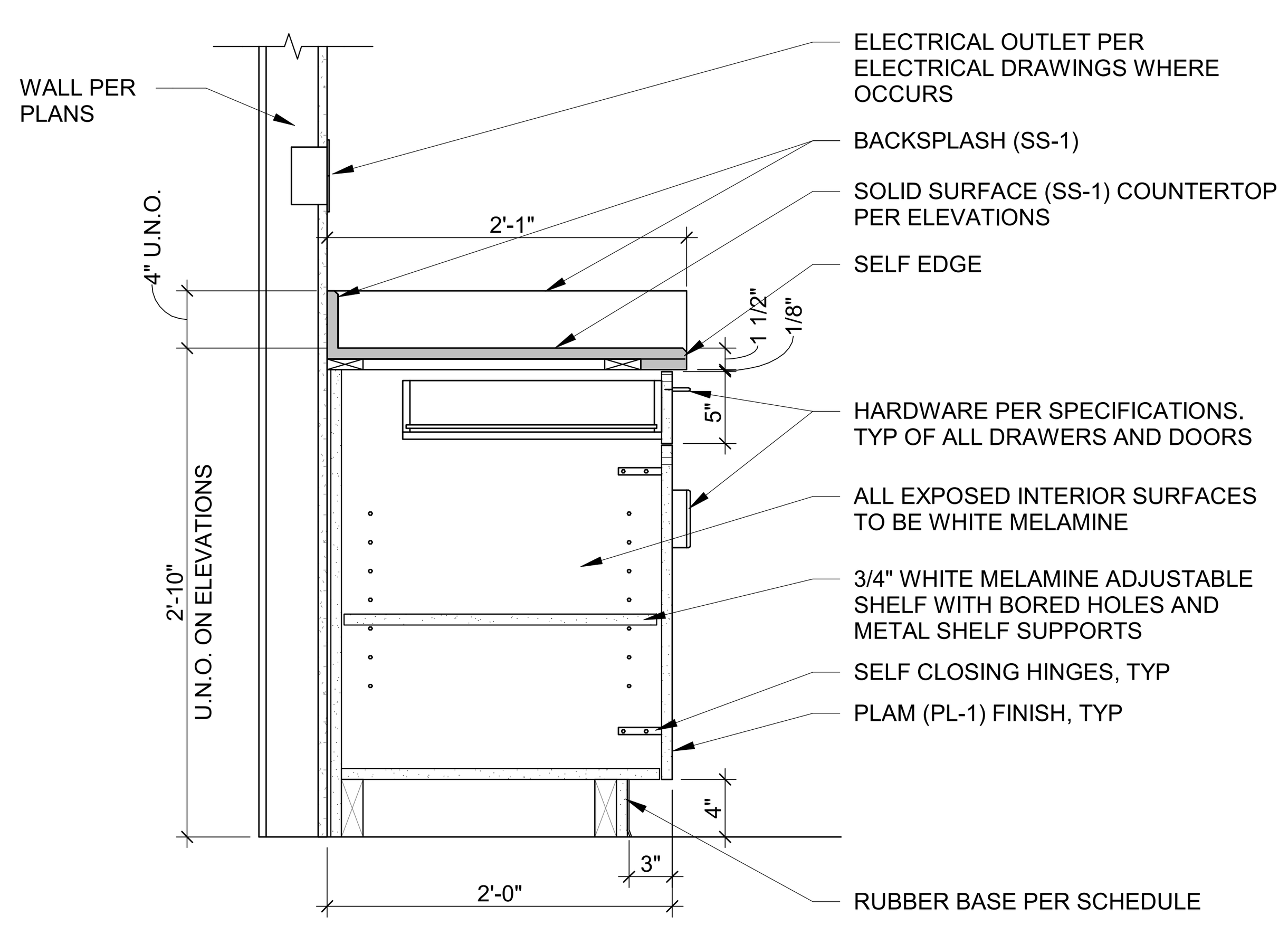
BID DELIVERABLE



2
A-541

DRINKING FOUNTAIN GRAB BAR

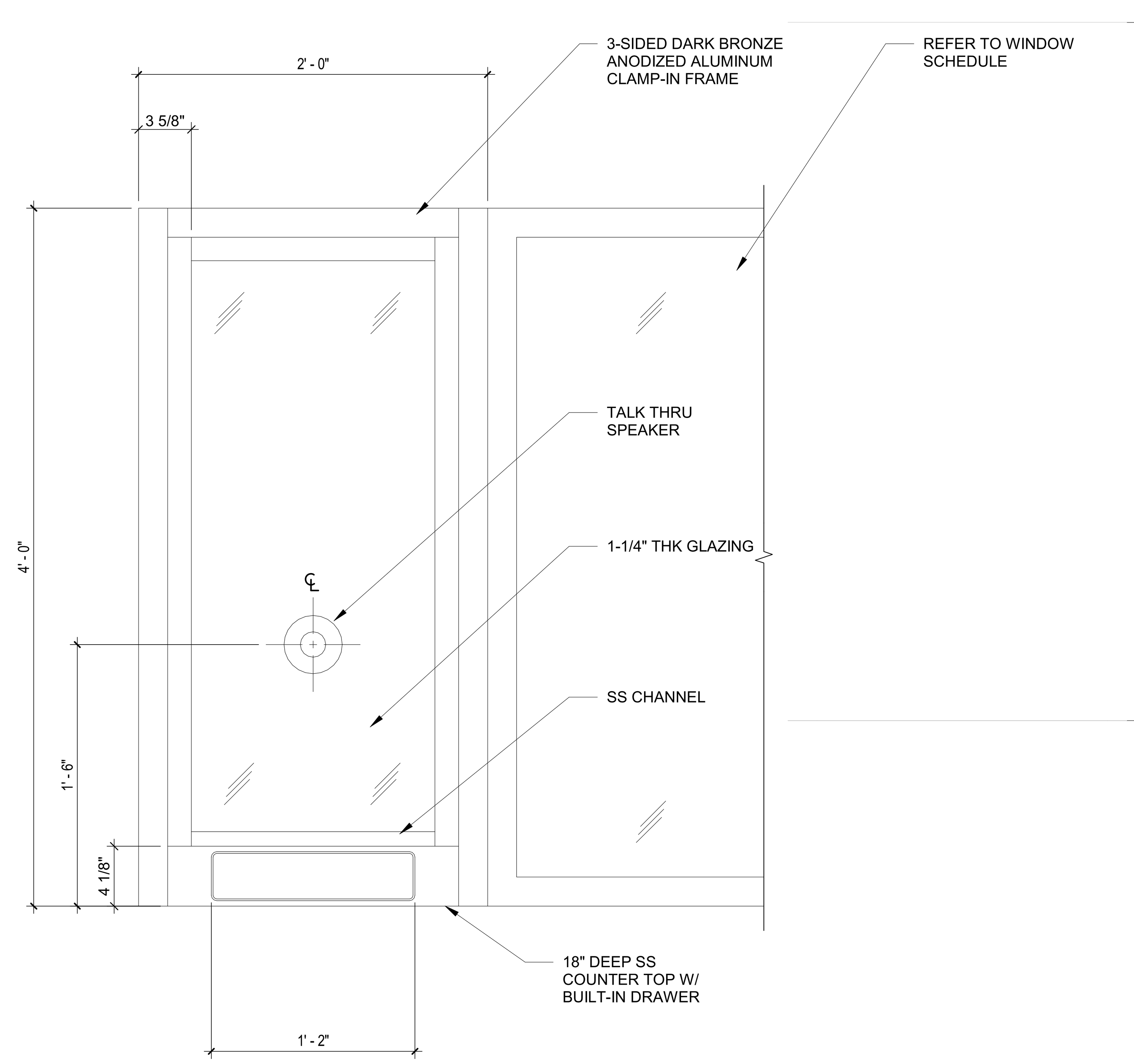
3" = 1'-0"



1
A-541

CABINET - BASE DRAWER AND DOORS

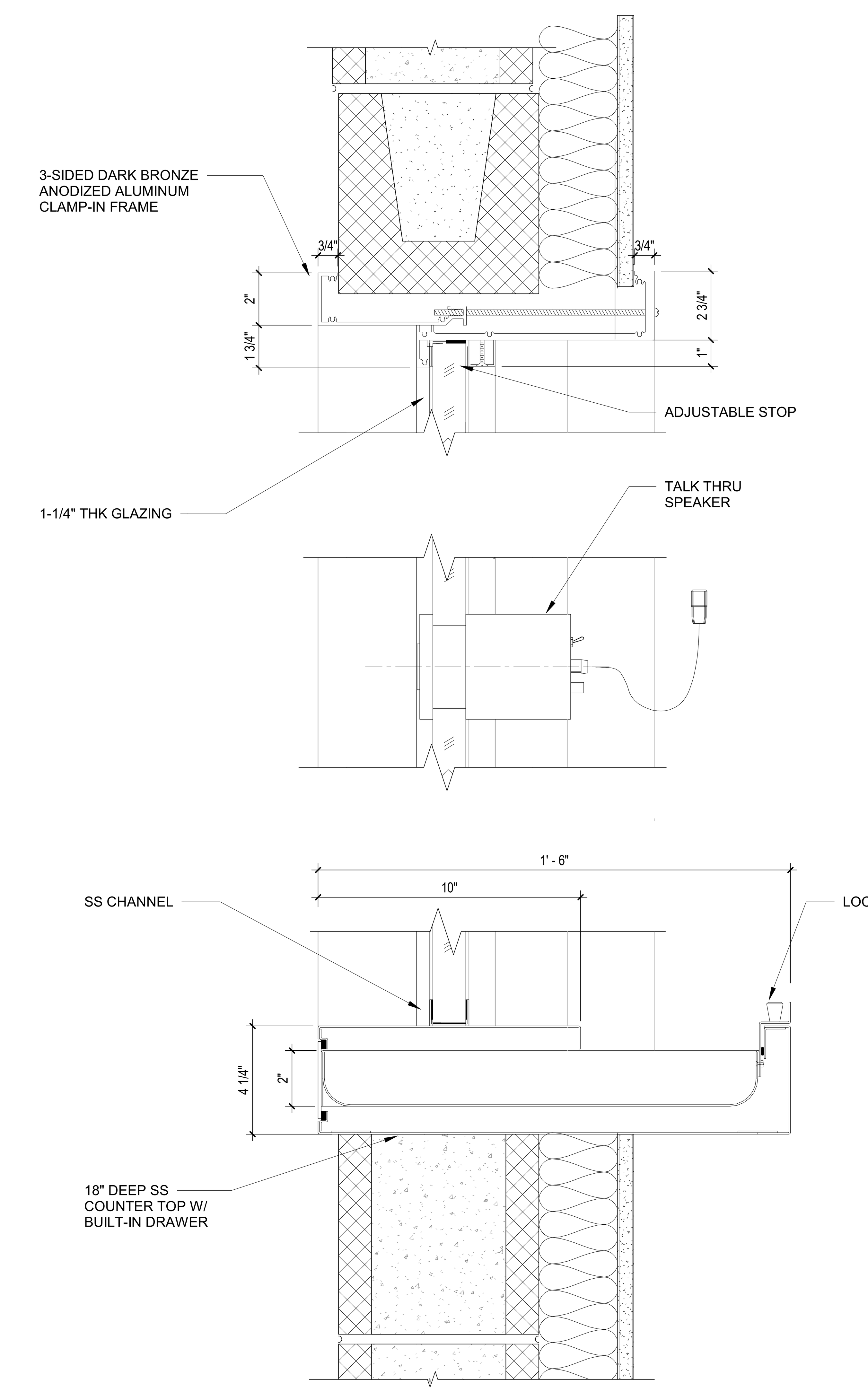
1" = 1'-0"



3
A-541

TICKET WINDOW - ELEVATION

1 1/2" = 1'-0"



4
A-541

TICKET WINDOW -SECTION

3" = 1'-0"

A-541

NO.	BY:	REVISION COMMENTS

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ENGINEER DATE

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ICTC
ENGINEER DATE

ENGINEER OF WORK:
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Los Angeles, CA 90017
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SEAL:
LICENSED ARCHITECT
No. C35017
REN.
STATE OF CALIFORNIA

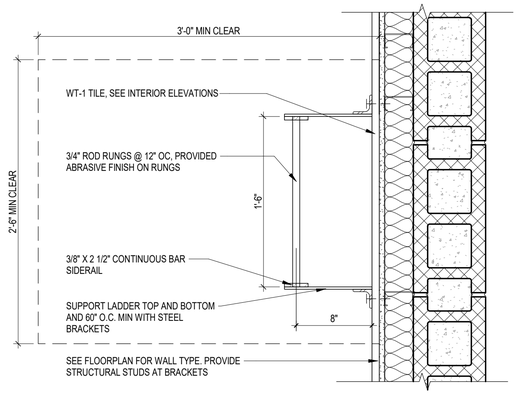
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
INTERIOR DETAILS

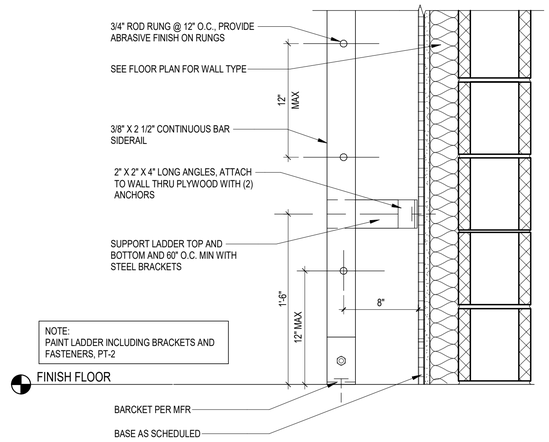
SHEET:
48
OF
145

BID DELIVERABLE



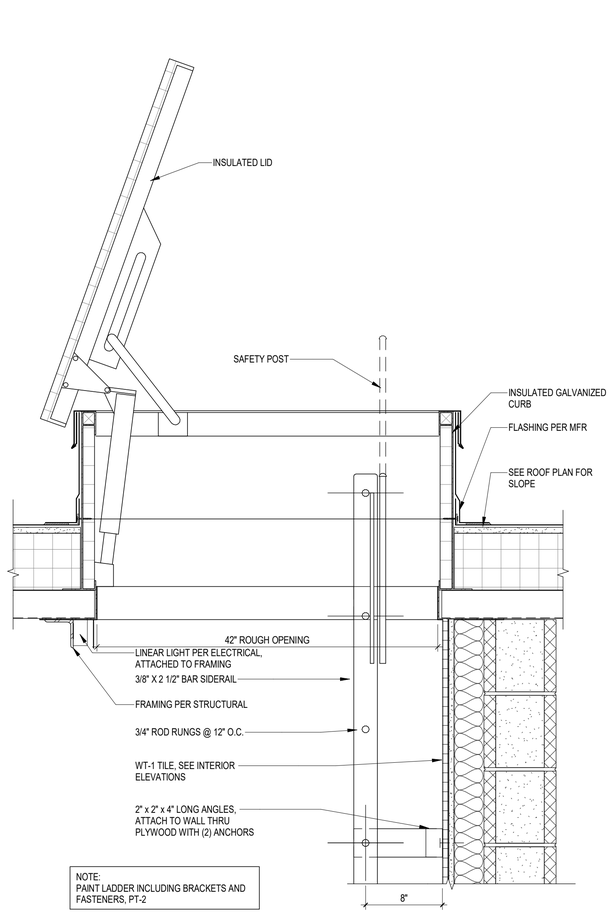
1 ROOF ACCESS LADDER

A-543 — 1 1/2" = 1'-0"



2 ROOF ACCESS LADDER - BOTTOM

A-543 — 1 1/2" = 1'-0"



3 ROOF HATCH DETAIL

A-543 — 1 1/2" = 1'-0"

A-543

NO.	BY:	REVISION COMMENTS

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APPROVED BY: ENGINEER DATE

SEAL:

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ENGINEER OF WORK:
Stantec
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Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C38017 REN 5/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

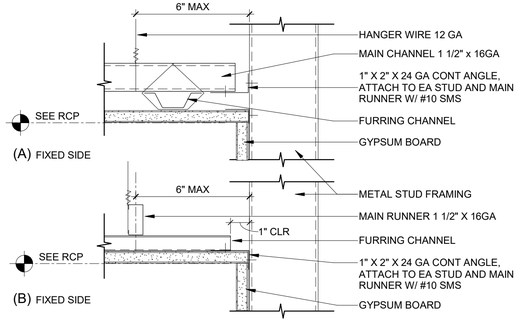
SHEET TITLE:
LADDER DETAILS

SHEET: 49 OF 145

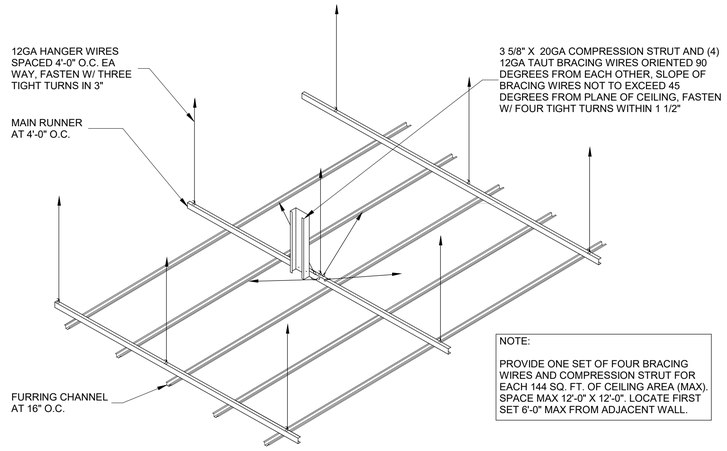
BID DELIVERABLE

SUSPENDED CEILING NOTES

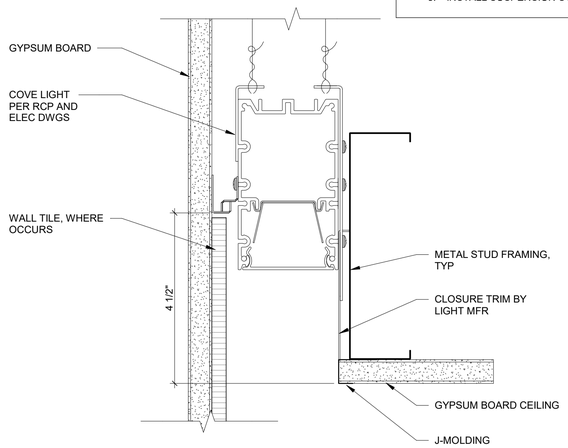
1. ACOUSTICAL CEILING SUSPENSION SYSTEM TO COMPLY WITH 2019 CBC SECTION 808: ASCE 7-10 & ASTM C635&C636
2. FOR SUSPENDED CEILING AREAS EXCEEDING 2,500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITIONS THAT BREAKS UP THE CEILING INTO AREAS NOT EXCEEDING 2,500 SF (ASCE 7-10, SECTION 13.5.6.2.26)
3. INSTALL SUSPENSION SYSTEM IN COMPLIANCE WITH ESR-1308



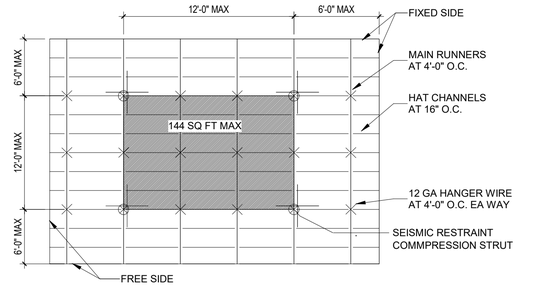
3 GYPSUM BD CLG PERIMETER - FIXED
A-550 — 3" = 1'-0"



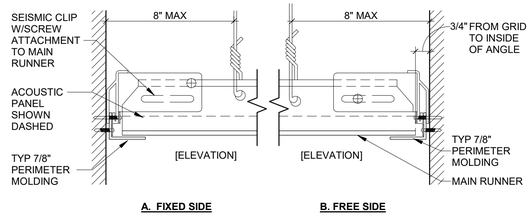
6 SUSPENSION CEILING BRACING
A-550 — 1/2" = 1'-0"



9 COVE LIGHT DETAIL
A-550 — 6" = 1'-0"

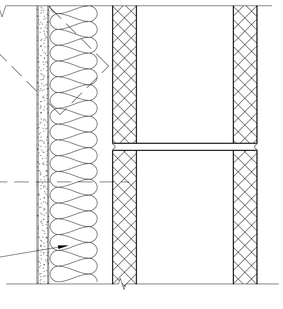


2 TYP GYPSUM BD CLG SUSPENSION
A-550 — 3" = 1'-0"

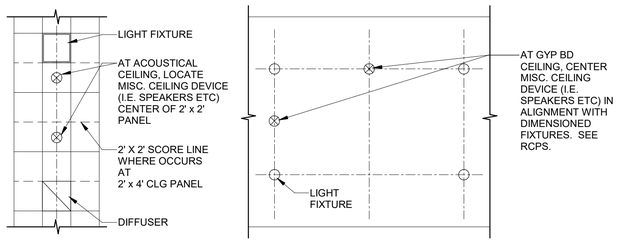


NOTES:
1. MAX CLG WEIGHT PERMITTED SHALL BE PER ICC-ESR-2631.
2. PER ICC-ESR, MAX 15/16" WIDE WALL ANGLE AND ELIMINATI0N OF SPACER BARS IS ALLOWABLE IN LIEU OF 2" WIDE ANGLE REQUIRED IN ASCE 7, SECTION 13.5.6.2.2

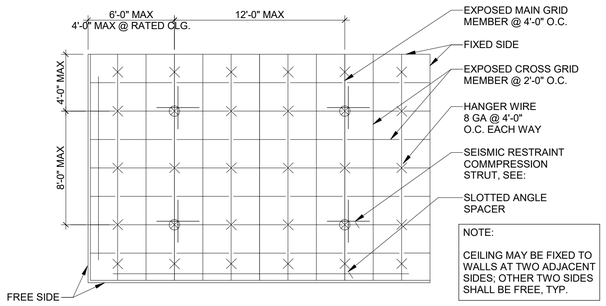
5 SUSPENDED ACT CLG - PERIMETER
A-550 — 3" = 1'-0"



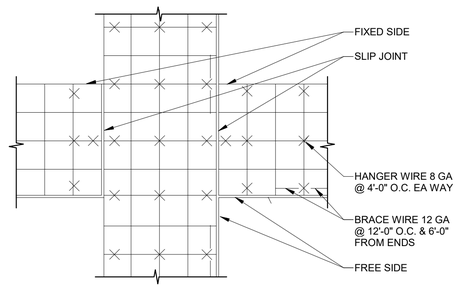
8 CEILING AT FLOATING EDGES
A-550 — 3" = 1'-0"



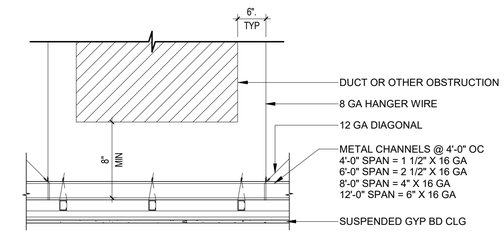
1 TYPICAL GUIDELINES FOR RCP LAYOUTS
A-550 — 3" = 1'-0"



4 TYP ACOUSTICAL CLG SUSPENSION
A-550 — 3" = 1'-0"



7 ACOUSTICAL CLG SUSPENSION @ INTERSECTIONS
A-550 — 3" = 1'-0"



10 GYPSUM BOARD TRAPEZE DETAIL
A-550 — 1 1/2" = 1'-0"

A-550

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
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SEAL: REGISTERED PROFESSIONAL ENGINEER No. C39017 REN 5/31/2025 STATE OF CALIFORNIA

DRAWN BY:	JA
CHECK BY:	AC
DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: INTERIOR DETAILS - CEILING

SHEET: 50 OF 145

BID DELIVERABLE

ROOM FINISH SCHEDULE

NUMBER	NAME	AREA	FLOOR		WALLS				CEILING FINISH	REMARKS
			FINISH	BASE	NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH		
101	TICKET BOOTH	223 SF	CON-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,2
102	STAFF RESTROOM	53 SF	FT-1/ FT-2	TB-1/ TB-2	WT-1/ WT-2	WT-2	WT-2	WT-2	GB-1	3,5
103	VESTIBULE	89 SF	CON-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXP	2
104	ELEC. RM	70 SF	CON-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXP	2
105	SECURITY RM	66 SF	CON-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1
106	PUBLIC RESTROOM	50 SF	FT-2	TB-2	WT-1	WT-1	WT-1	WT-1	GB-1	3
107	JANITOR CLOSET	47 SF	FT-2	TB-2	WT-1	WT-1	WT-1	WT-1	EXP	2,3
108	DRIVER RESTROOM 1	45 SF	FT-1/ FT-2	TB-1/ TB-2	WT-2	WT-2	WT-2	WT-1/ WT-2	GB-1	3,5
109	DRIVER RESTROOM 2	48 SF	FT-1/ FT-2	TB-1/ TB-2	WT-2	WT-2	WT-2	WT-1/ WT-2	GB-1	3,5
110	BREAK RM	222 SF	CON-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	1,2

FINISH REMARKS

1	PROVIDE 1" MINI BLINDS AT EACH WINDOW.
2	ALL EXPOSED DECKING, BEAMS, DUCTS, PIPES AND CONDUITS TO BE PAINTED. PT-2
3	REFER TO INTERIOR ELEVATIONS ON SHEET A-400 FOR TILE FLOORING AND WALL LAYOUT
4	WALL FINISHES APPLY TO ALL WALL SURFACES WITHIN THE ROOM.
5	RESTROOM DOOR FRAME AND DOOR PAINTED TO MATCH WT-2. PT-5

ABBREVIATIONS

N/A	NOT APPLICABLE
EXP	EXPOSED

FINISH LEGEND

TILES

WT 1 **WT-1** — **WALL TILE**
MFR: DALTILE
TYPE: PORTFOLIO
COLOR: ASH GREY PF05
FINISH: MATTE
SIZE: 12" X 24"

WT 2 **WT-2** — **WALL TILE**
MFR: DALTILE
TYPE: VOLUME 1.0
COLOR: INTENSITY PEBBLE VL72
FINISH: MATTE
SIZE: 12" X 24"

FT 1 **FT-1** — **FLOOR TILE**
MFR: DALTILE
TYPE: PORTFOLIO
COLOR: ASH GREY PF05
FINISH: MATTE
SIZE: 12" X 24"

FT 2 **FT-2** — **FLOOR TILE**
MFR: DALTILE
TYPE: VOLUME 1.0
COLOR: INTENSITY PEBBLE VL72
FINISH: MATTE
SIZE: 12" X 24"

ARCHITECTURAL FINISHES

PL 1 **PL-1** — **PLASTIC LAMINATE**
MFR: FORMICA
COLOR: GRAPHITE

SS 1 **SS-1** — **SOLID SURFACE COUNTERTOP**
MFR: CORIAN
COLOR: GREY ONYX

CEILING FINISHES

GB 1 **GB-1** — **GYPSUM BOARD CEILING**
FINISH: PT-1

ACT 1 **ACT-1** — **ACOUSTICAL CEILING TILE**
MFR: ARMSTRONG
TYPE: ULTIMA
COLOR: WHITE
SIZE: 2' X 2' X 1"
EDGE: SQUARE TEGULAR 9/16

PAINTS

PT 1 **PT-1** — **INTERIOR WALL & CEILING PAINT**
MFR: BENJAMIN MOORE
COLOR: SUPER WHITE
FINISH: EGG SHELL
SEMI-GLOSS AT RESTROOMS

PT 2 **PT-2** — **PAINT**
MFR: BENJAMIN MOORE
COLOR: SPACE BLACK
FINISH: EGG SHELL

PT 3 **PT-3** — **PAINT**
MFR: BENJAMIN MOORE
COLOR: DARK BRONZE
FINISH: SEMI-GLOSS

PT 4 **PT-4** — **PAINT**
COLOR: TO MATCH METAL PANEL
MP-1 & MP-2 (SILVER SMITH)

PT 5 **PT-5** — **PAINT**
COLOR: TO MATCH WT-2

FLOOR FINISHES

CON 1 **CON-1** — **POLISHED CONCRETE**
COLOR: AS-CAST
FINISH: SEALER

BASE FINISHES

RB 1 **RB-1** — **RUBBER WALL BASE**
MFR: ROPPE
COLOR: 123 CHARCOAL
TYPE: PINNACLE, NO TOE BASE
SIZE: 4"

TB 1 **TB-1** — **TILE COVE BASE**
MFR: DALTILE
TYPE: PORTFOLIO
COLOR: ASH GREY PF05
FINISH: MATTE
SIZE: 6" x 24"

TB 2 **TB-2** — **TILE COVE BASE**
MFR: DALTILE
TYPE: INTENSITY PEBBLE VL72
COLOR: ASH GREY PF05
FINISH: MATTE
SIZE: 6" x 24"

EXTERIOR FINISHES

CMU-1 — **CONCRETE MASONRY UNIT**
MFR: RCP
COLOR: BUFF
TYPE: PRECISION
SIZE: 8" X 8" X 16"

BRK-1 — **THIN BRICK VENEER**
MFR: McNEAR
SERIES: SANDMOLD
COLOR: CAMDEN
SIZE: 5/8" x 2-1/4" x 7-5/8" (BED DEPTH X HEIGHT X LENGTH)
GROUT COLOR: TO BE DETERMINED

MP-1 — **ROOF METAL PANEL**
MFR: MORIN
SERIES: SYMMETRY ROOF SERIES
NO CLIP RELIEF
COLOR: SILVERSMITH
SIZE: 12"

MP-2 — **METAL SOFFIT PANEL**
MFR: MORIN
SERIES: PRIMO SOFFIT PANEL
NO REVEAL PS-12-F (SMOOTH)
COLOR: SILVERSMITH
SIZE: VARIES

A-600

NO.	BY:	REVISION COMMENTS

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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
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SEAL: LICENSED ARCHITECT No. C33017 REN 5/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: FINISH SCHEDULE AND LEGEND

SHEET: 51 OF 145

BID DELIVERABLE

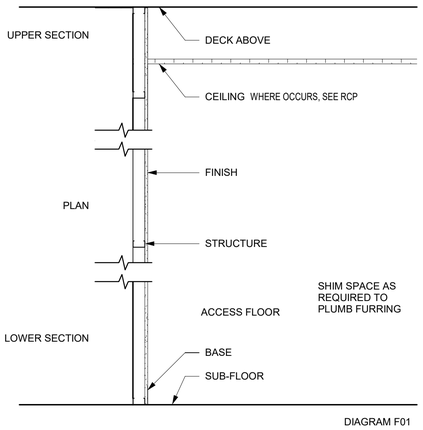

DIAGRAM F01

PARTITION SCHEDULE - DIAGRAM F01 (FURRING)

PARTITION TYPE	DESCRIPTION	STUD DEPTH	OVERALL WIDTH	STUD SPACING	HEAD OF WALL	FIRE RATING	STC RATING
F024	STL STUD || 5/8" GYP BD (X)	3"	0' - 3 5/8"	24	CEILING	NR	NR

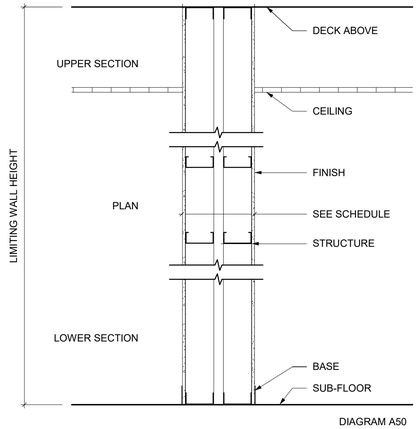

DIAGRAM A50

PARTITION SCHEDULE - DIAGRAM A50 (ACOUSTIC)

PARTITION TYPE	DESCRIPTION	STUD DEPTH	OVERALL WIDTH	STUD SPACING	HEAD OF WALL	FIRE RATING	STC RATING
A500	SGL LYR 5/8" GYP BD (X) || STL STUD || AIR SPACE (MIN) || STL STUD ALIGNED || SGL LYR 5/8" GYP BD (X)	3 5/8"	2' - 2"	16	DECK	NR	55

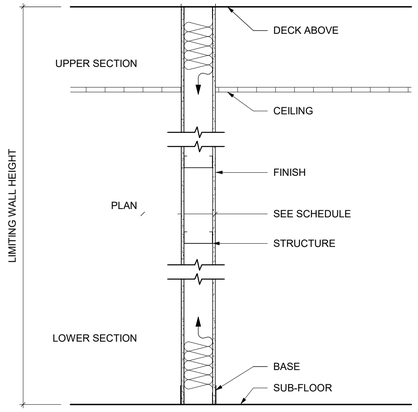

DIAGRAM A08

PARTITION SCHEDULE - DIAGRAM A08 (ACOUSTIC)

PARTITION TYPE	DESCRIPTION	STUD DEPTH	OVERALL WIDTH	STUD SPACING	HEAD OF WALL	FIRE RATING	STC RATING
A092	SGL LYR 5/8" GYP BD (X) || STL STUD \ 3 1/2" MINERAL or GLASS || SGL LYR 5/8" GYP BD (X)	3 5/8"	0' - 4 7/8"	16	DECK	NR	47

GENERAL NOTES

A. SUBSTITUTE TILE BACKER BOARD (CERTIFIED) FOR GYPSUM BOARD AT AREAS INDICATED TO RECEIVE CERAMIC OR PORCELAIN TILE. SEE SPECIFICATION FOR TYPE.
B. PROVIDE BLOCKING AND DRAFT STOPS PER GOVERNING CODES AND AS INDICATED ON DRAWINGS.
C. PROVIDE .093" CONTROL JOINTS AT 30' ON CENTER AT STRAIGHT, UNBROKEN GYPSUM BOARD WALLS PER ASTM C 840 AND SPECIFICATION.
D. PROVIDE FIRE-RESISTANCE RATED ACCESS PANELS AND FRAMES IN FIRE RESISTANCE RATED GYPSUM BOARD WALLS WHERE REQUIRED TO ACCESS MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, DAMPERS, VALVES AND FILTERS. SEE MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL REFERENCES.
E. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND DETAILS.
F. SEE STRUCTURAL DRAWINGS FOR ALLOWABLE SLIP-TYPE HEAD DETAILS.
G. USE LIMITING WALL HEIGHT TABLES ON SHEET A-601 FOR ALLOWABLE MINIMUM GAUGE OF METAL STUDS.
H. ALL DIMENSIONS ARE TO FINISHED FACE OF GYPSUM BOARD UNLESS OTHERWISE NOTED AND DO NOT INCLUDE APPLIED FINISHES.
I. PARTITION TYPE DIAGRAMS DO NOT INCLUDE FINISHES. SEE FINISH SCHEDULES, INTERIOR ELEVATIONS AND/ OR INTERIOR DESIGN DRAWINGS FOR APPLIED FINISH INFORMATION.
J. SEE STRUCTURAL DRAWINGS FOR ATTACHMENT, BRACING, REINFORCING AND GROUTING OF CMU PARTITIONS.
K. PROVIDE PENETRATION FIRE STOPPING AT ALL LOCATIONS WHERE PIPES, CONDUIT, ETC. PASS THROUGH FIRE RESISTANCE RATED CONSTRUCTION.
L. PROVIDE FIRE/ SMOKE DAMPERS AT ALL LOCATIONS WHERE DUCTS PASS THROUGH FIRE RESISTANCE RATED PARTITIONS, SEE MECHANICAL.
M. FRAME HINGE OR LATCH FACE OF DOOR FRAMES 4" FROM ANY PERPENDICULAR WALL UNLESS DIMENSIONED OTHERWISE.

LWH TABLE 1-16

FOR NON-STRUCTURAL COMPOSITE PARTITIONS

STUD DEPTH	METAL THICKNESS	LIMITING WALL HEIGHT (LWH) FOR STUD SPACING @ 16 INCHES O.C.	
		LWH @ 5 PSF @ L/240	LWH @ 5 PSF @ L/360
		PAINTED WALLS (SEE LWH TABLE NOTE 1)	TILED WALLS (SEE LWH TABLE NOTE 2)
2-1/2"	18 MIL (25 GAGE)	11'-3"	9'-9"
	30 MIL (20 DW GAGE)	12'-0"	10'-6"
	33 MIL (20 ST GAGE)	12'-9"	11'-0"
	43 MIL (18 GAGE)	14'-9"	12'-9"
3-5/8"	18 MIL (25 GAGE)	14'-3"	12'-3"
	30 MIL (20 DW GAGE)	15'-6"	13'-6"
	33 MIL (20 ST GAGE)	16'-3"	14'-3"
	43 MIL (18 GAGE)	18'-0"	15'-6"
	54 MIL (16 GAGE)	19'-6"	17'-0"
	68 MIL (14 GAGE)	20'-0"	17'-3"
6"	18 MIL (25 GAGE)	19'-9"	17'-9"
	30 MIL (20 DW GAGE)	23'-0"	20'-3"
	33 MIL (20 ST GAGE)	24'-6"	21'-3"
	43 MIL (18 GAGE)	28'-3"	24'-6"
	54 MIL (16 GAGE)	30'-0"	26'-0"
	68 MIL (14 GAGE)	32'-0"	28'-0"
8"	43 MIL (18 GAGE)	34'-3"	30'-0"
	54 MIL (16 GAGE)	36'-6"	32'-0"
	68 MIL (14 GAGE)	39'-9"	34'-9"

LWH TABLE NOTES:
1. USE "PAINTED WALLS" COLUMN FOR WALLS LEFT UNFINISHED, WALLS PAINTED, OR WALLS RECEIVING ADHERED TILE 4" IN GREATEST LENGTH OR WIDTH DIMENSION.
2. USE "TILED WALLS" COLUMN FOR WALLS RECEIVING ADHERED TILE GREATER THAN 4" IN ANY LENGTH OR WIDTH DIMENSION.

LWH TABLE 1-16, NON STRUCTURAL, COMPOSITE

A-601

NO.	BY:	REVISION COMMENTS

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SEAL:

APPROVED BY: ENGINEER DATE

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SEAL: LICENSED ARCHITECT No. C38017 REN 8/31/2025 STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

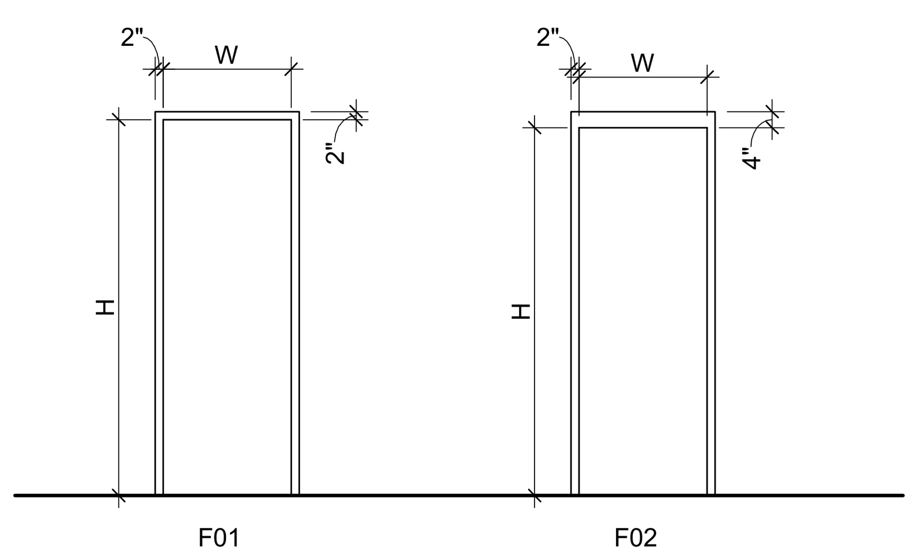
SHEET TITLE: PARTITION TYPES

SHEET: 52 OF 145

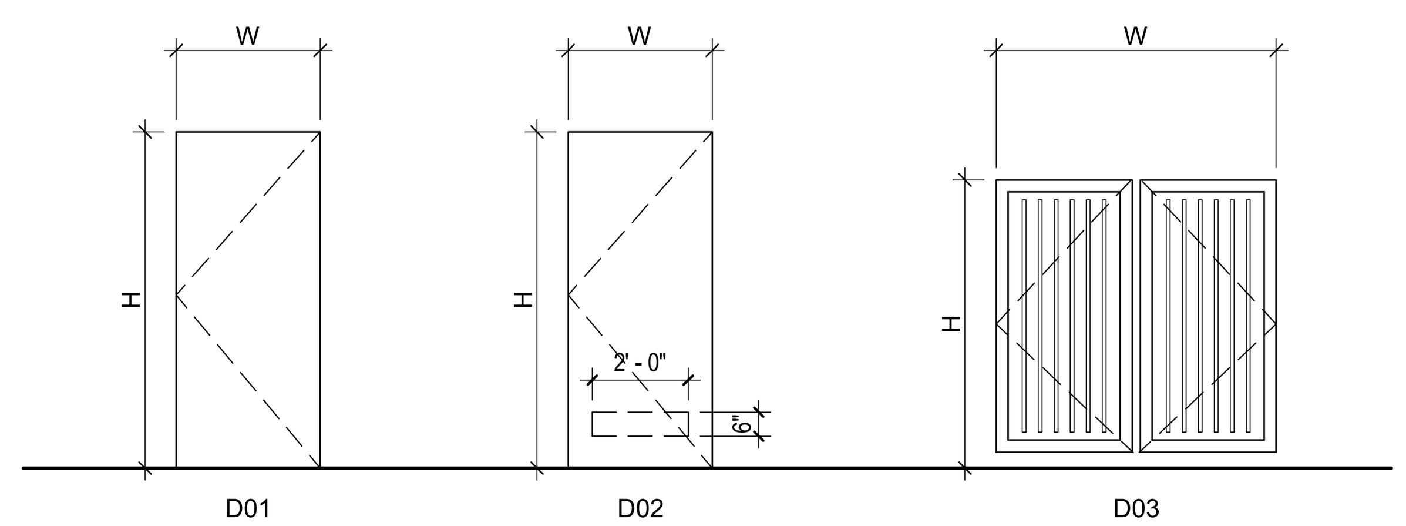
BID DELIVERABLE

DOOR AND FRAME SCHEDULE

NO	ROOM NAME	DOOR							FRAME				DETAILS			FIRE RATING	REMARKS
		HW	DIMENSIONS		THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	GLAZING	HEAD	JAMB	THRESHOLD		
			WIDTH	HEIGHT													
101	TICKET BOOTH	5	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	
102	STAFF RESTROOM	6	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	2
103	VESTIBULE	1	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F02	HM	PT-3	-	1/A-611	1/A-611	5/A-611	NR	
104	ELEC. ROOM	3	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	
105	SECURITY ROOM	4	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	
106	PUBLIC RESTROOM	2	3' - 0"	7' - 0"	1 3/4"	D02	HM	PT-3	F02	HM	PT-3	-	1/A-611	1/A-611	5/A-611	NR	3
107	JANITOR CLOSET	1	3' - 0"	7' - 0"	1 3/4"	D02	HM	PT-3	F02	HM	PT-3	-	1/A-611	1/A-611	5/A-611	NR	3
108	DRIVER RESTROOM 1	6	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	2
109	DRIVER RESTROOM 2	6	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F01	HM	PT-3	-	6/A-611	6/A-611	7/A-611	NR	2
110	BREAK ROOM	1	3' - 0"	7' - 0"	1 3/4"	D01	HM	PT-3	F02	HM	PT-3	-	1/A-611	1/A-611	5/A-611	NR	
111	MECHANICAL YARD	7	6' - 0"	6' - 0"	1"	D03	STL		-	STL		-				NR	1



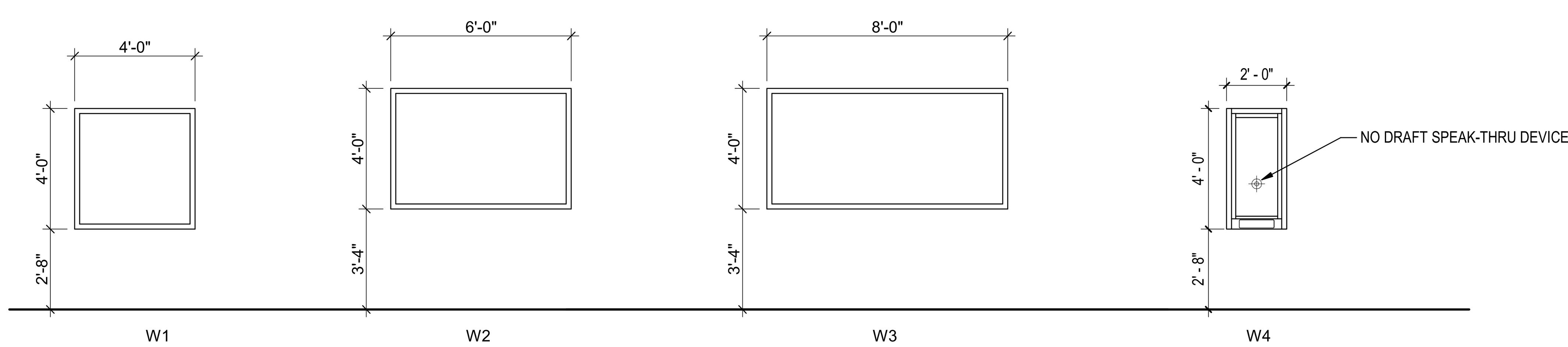
FRAME TYPE



DOOR TYPE

WINDOW SCHEDULE

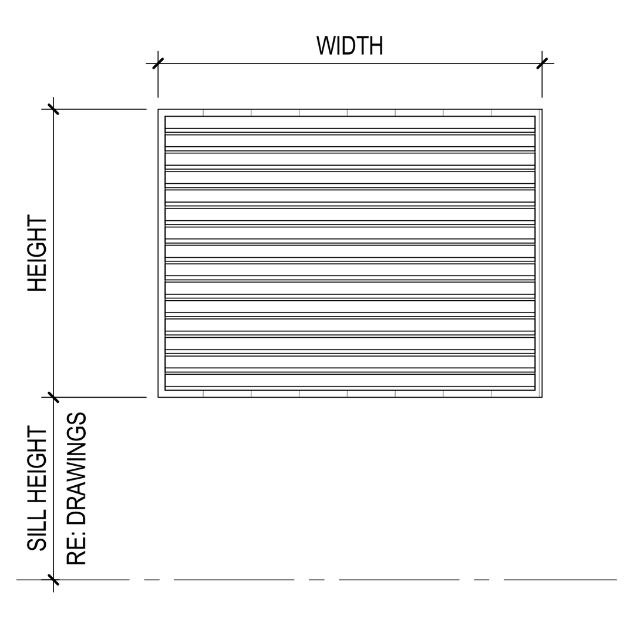
TYPE MARK	FRAME					DETAIL			FIRE RATING	GLAZING TYPE	REMARKS
	RO WIDTH	RO HEIGHT	SILL HEIGHT	MATL	COLOR	HEAD	JAMB(S)	SILL			
W1	4' - 0"	4' - 0"	2' - 8"	ALUM	PT-3	4/A-611	2/A-611	3/A-611	NR	GL1	1
W2	6' - 0"	4' - 0"	3' - 4"	ALUM	PT-3	4/A-611	2/A-611	3/A-611	NR	GL1	1
W3	8' - 0"	4' - 0"	3' - 4"	ALUM	PT-3	4/A-611	2/A-611	3/A-611	NR	GL1	1
W4	2' - 0"	4' - 0"	2' - 6"	ALUM	PT-3	4/A-541	4/A-541	4/A-541	NR	GL2	1
W5	1' - 8"	1' - 4"			PT-3	9/A-611	9/A-611	10/A-611			4



WINDOW TYPE

LOUVER SCHEDULE

NUMBER	TYPE	FRAME				DETAIL			REMARKS
		R.O. WIDTH	R.O. HEIGHT	MATL	COLOR	HEAD	JAMB(S)	SILL	
L101	L1	1' - 4"	1' - 0"	ALUM	PT-3	9/A-611	9/A-611	10/A-611	4
L102	L1	1' - 4"	1' - 0"	ALUM	PT-3	9/A-611	9/A-611	10/A-611	4
L103	L1	1' - 4"	1' - 0"	ALUM	PT-3	9/A-611	9/A-611	10/A-611	4



LOUVER TYPE

HARDWARE SETS

HW SET	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US32D	MK
	1	STOREROOM DEADBOLT LOCK	64 8251 LNL	US32D	SA
	1	PERMANENT CORE	DG1 6300	US15	SA
	1	SURFACE CLOSER	7500	689	NO
	1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO
	1	DOOR STOP	441H	US26D	RO
	1	THRESHOLD	PER SILL DETAIL		PE
	1	GASKETING (HEAD)	2891AS		PE
	1	GASKETING (JAMBS)	290AS		PE
	1	RAIN GUARD	346C (OMIT @ OVERHANG)		PE
	1	SWEEP	18062CNB		PE
2					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US32D	MK
	1	INSTITUTIONAL PRIVACY LOCK	V21 64 8267 LNL	US32D	SA
	1	PERMANENT CORE	DG1 6300	US15	SA
	1	SURFACE CLOSER	7500	689	NO
	1	MOP PLATE	K1050 6" HIGH CSK BEV	US32D	RO
	1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO
	1	DOOR STOP	441H	US26D	RO
	1	THRESHOLD	PER SILL DETAIL		PE
	1	GASKETING (HEAD)	2891AS		PE
	1	GASKETING (JAMBS)	290AS		PE
	1	RAIN GUARD	346C (OMIT @ OVERHANG)		PE
	1	SWEEP	18062CNB		PE
3					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US26D	MK
	1	ENTRY/OFFICE LOCK	64 10XG05 LL	US26D	SA
	1	PERMANENT CORE	DG1 6300	US15	SA
	1	SURFACE CLOSER	7500	689	NO
	1	WALL STOP	403	US26D	RO
	3	SILENCER	608-RKW		RO
4					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US26D	MK
	1	ENTRY/OFFICE LOCK	64 10XG05 LL	US26D	SA
	1	PERMANENT CORE	DG1 6300	US15	SA
	1	WALL STOP	403	US26D	RO
	3	SILENCER	608-RKW		RO
5					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US26D	MK
	2	CLASSROOM SECURITY LOCK	64 10XG38 LL	US26D	SA
	1	PERMANENT CORE	DG1 6300	US15	SA
	1	SURFACE CLOSER	7500	689	NO
	1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO
	1	WALL STOP	403	US26D	RO
	3	SILENCER	608-RKW		RO
6					
	3	HINGE, FULL MORTISE	TA2314 (NRP)	US26D	MK
	1	PRIVACY LOCK	10XU65 LL	US26D	SA
	1	SURFACE CLOSER	7500	689	NO
	1	MOP PLATE	K1050 6" HIGH CSK BEV	US32D	RO
	1	KICK PLATE	K1050 10" HIGH CSK BEV	US32D	RO
	1	WALL STOP	403	US26D	RO
	1	GASKETING	S88BL		PE
7					
	1	HARDWARE BY GATE SUPPLIER			OT

HARDWARE REQUIREMENTS TO BE CONFIRMED WITH THE OWNER BY THE GENERAL CONTRACTOR.

GLAZING TYPES

GL1 1" INSULATED CLEAR GLAZING
U-FACTOR 0.36 BTU/HR-FT2-F AND SHGC =0.25

GL2 BULLET RESISTANT WINDOW PER MFG

WINDOW REMARKS

1. PROVIDE 1" MINI BLIND ON WINDOWS, SEE SPECS

DOOR/LOUVER REMARKS

1. PAINT TO MATCH WITH LANDSCAPE 42" HIGH PICKET FENCE
2. PROVIDE 3/4" DOOR UNDERCUT
3. LOUVER COLOR TO MATCH WITH DOOR, MINIMUM 0.17 SQFT NFA
4. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS

ABBREVIATIONS

-	NONE
NA	NOT APPLICABLE
NR	NOT RATED
ALUM	CLEAR ANODIZED ALUMINUM
FF	FACTORY FINISH
GL	GLAZING
GALV	HOLLOW METAL, GALVANIZED
HM	HOLLOW METAL
STL	STEEL
SC WD	SOLID CORE WOOD DOOR
PT	PAINT, REFER TO FINISH LEGEND A-600
PLAM	PLASTIC LAMINATE, REFER TO FINISH LEGEND A-600

GENERAL SCHEDULE NOTES

A ALL EXTERIOR GLAZING TO BE GL-1 U.N.O.

B ALL GLAZING WITHIN 18" OF FLOOR AND EITHER SIDE OF DOOR OR OPERABLE WINDOW SHALL BE SAFETY GLAZING

C REFER TO A-611 FOR DOOR, AND WINDOW DETAILS

E "W" SEE SCHEDULE FOR WIDTH

F "H" SEE SCHEDULE FOR HEIGHT

G "S" SEE SCHEDULE FOR SILL HEIGHT, ALL SILL HEIGHTS ARE TAKEN FROM FINISH FLOOR LEVEL U.N.O.

H OPERABLE PARTS OF ACCESSIBLE DOOR HARDWARE HEIGHT SHALL BE LOCATED 34"-44" ABOVE FINISH FLOOR

J REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL LOUVER INFORMATION. MECHANICAL DRAWINGS INDICATED MINIMUM LOUVER SIZE REQUIRED. CONTRACTOR TO COORDINATE MECHANICAL REQUIREMENTS AND ARCH LOUVER SCHEDULE AND PROVIDE WHICHEVER SIZE IS GREATER.

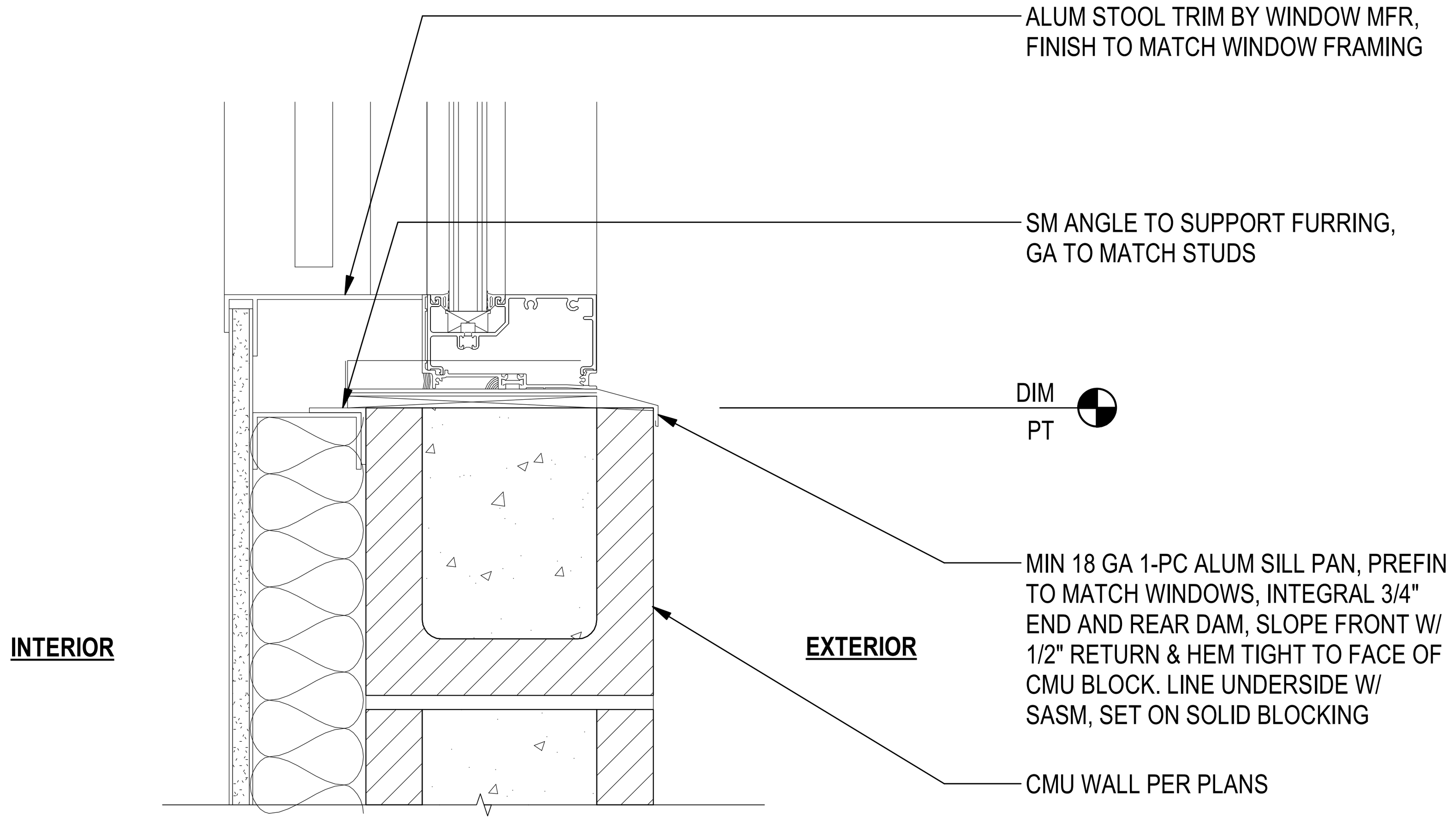
K ALL EXTERIOR DOORS TO HAVE WEATHER-STRIPPING ALL AROUND OPENING

L THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL NOT BE GREATER THAN 5 POUNDS FOR BOTH INTERIOR AND EXTERIOR DOORS.

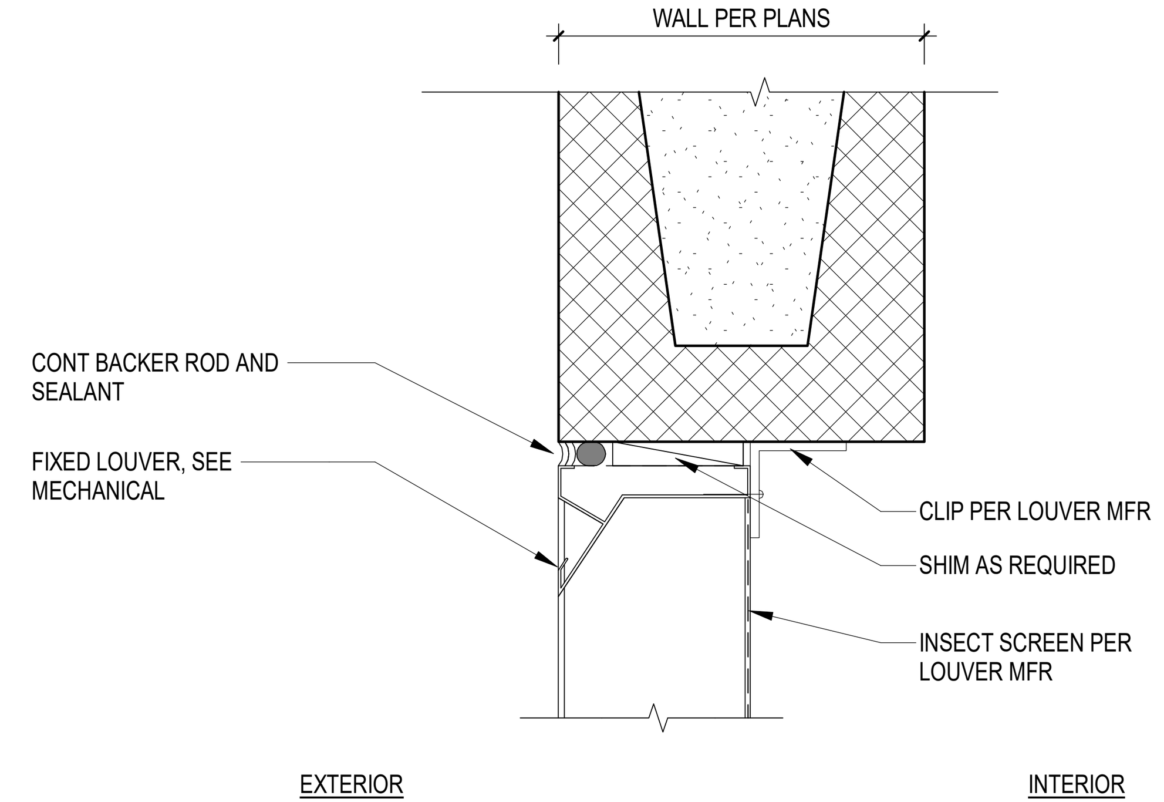
M DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

N ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES ARE TO BE GALVANIZED PER SPECIFICATIONS, U.N.O.

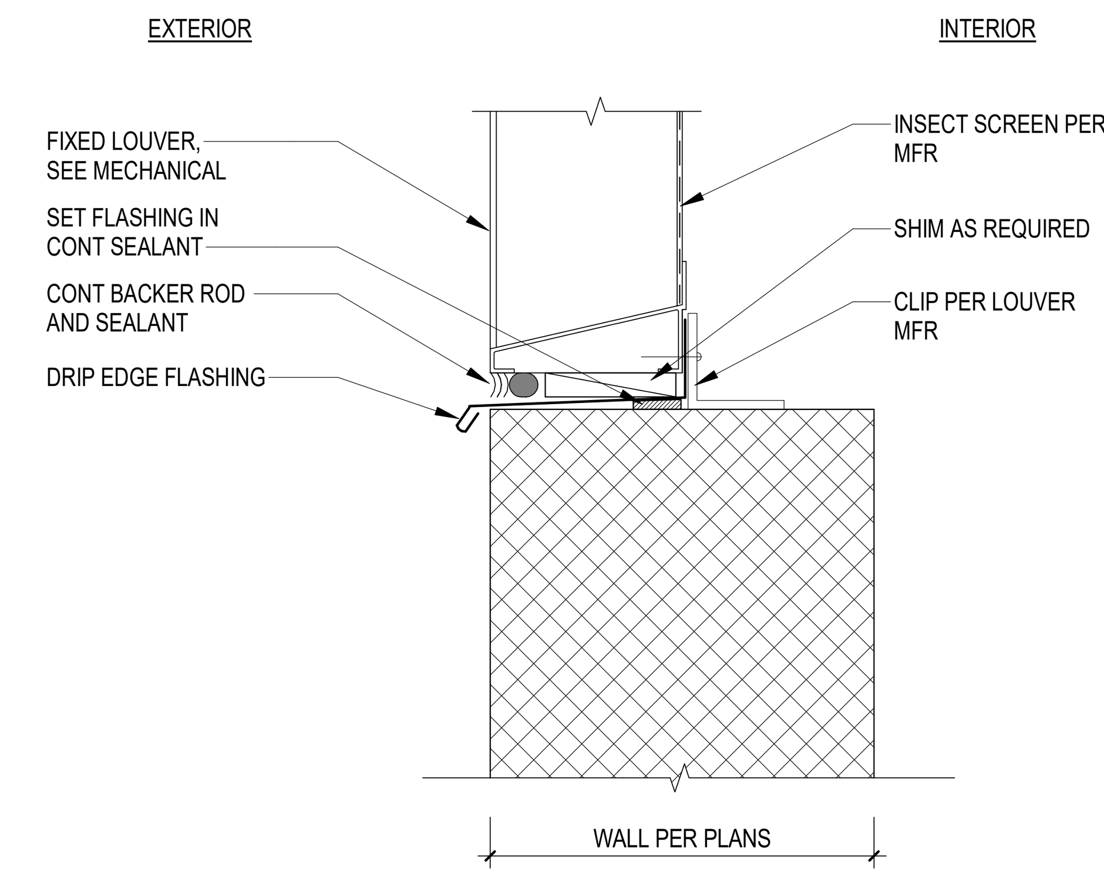
O OPERABLE WINDOWS TO MEET CBC AND ACCESSIBILITY PUSH/PULL WEIGHT REQUIREMENTS. WINDOW OPERATION CANNOT EXCEED 5LBS.



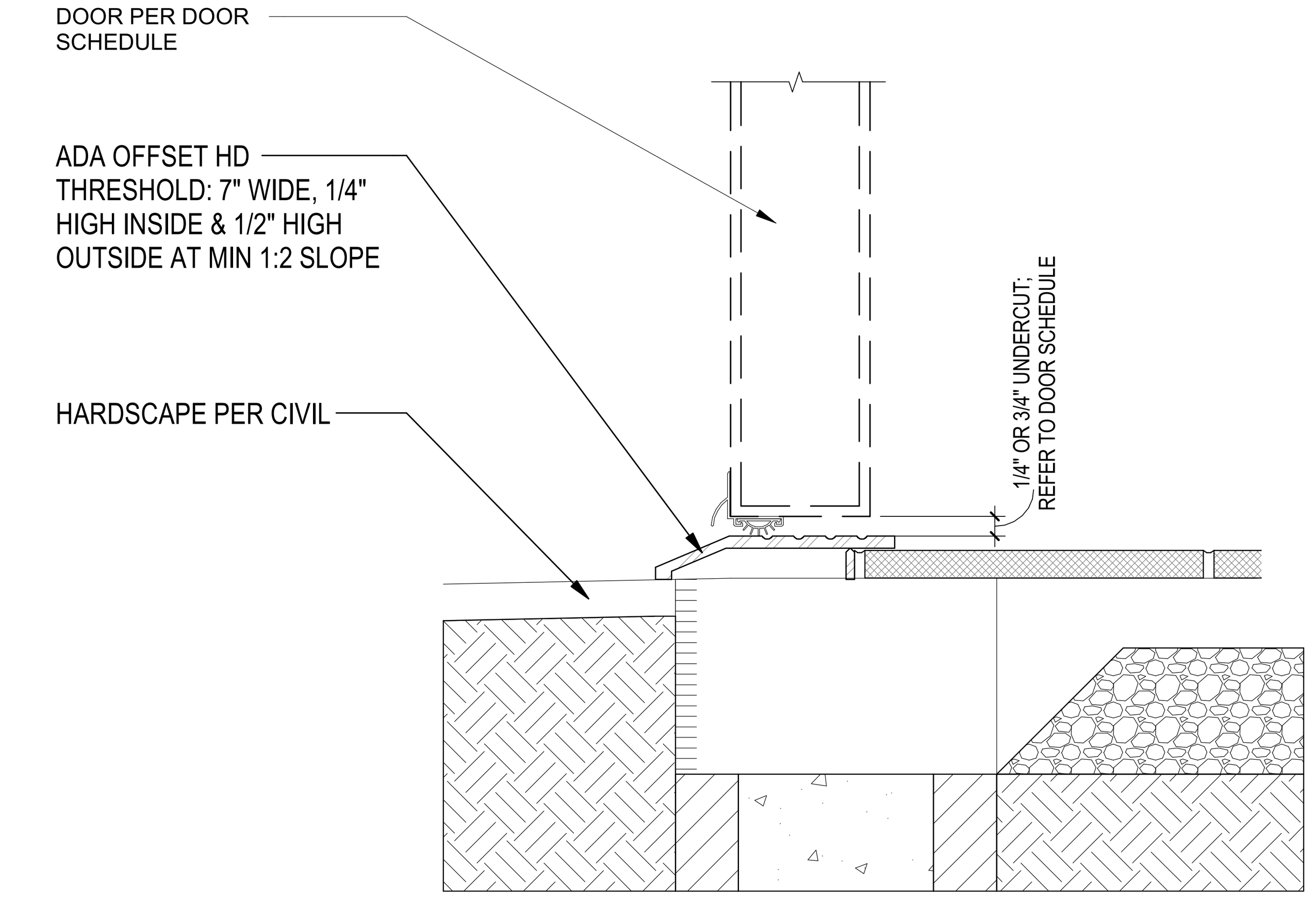
3 A-611 **WINDOW SILL @ CMU**
3" = 1'-0"



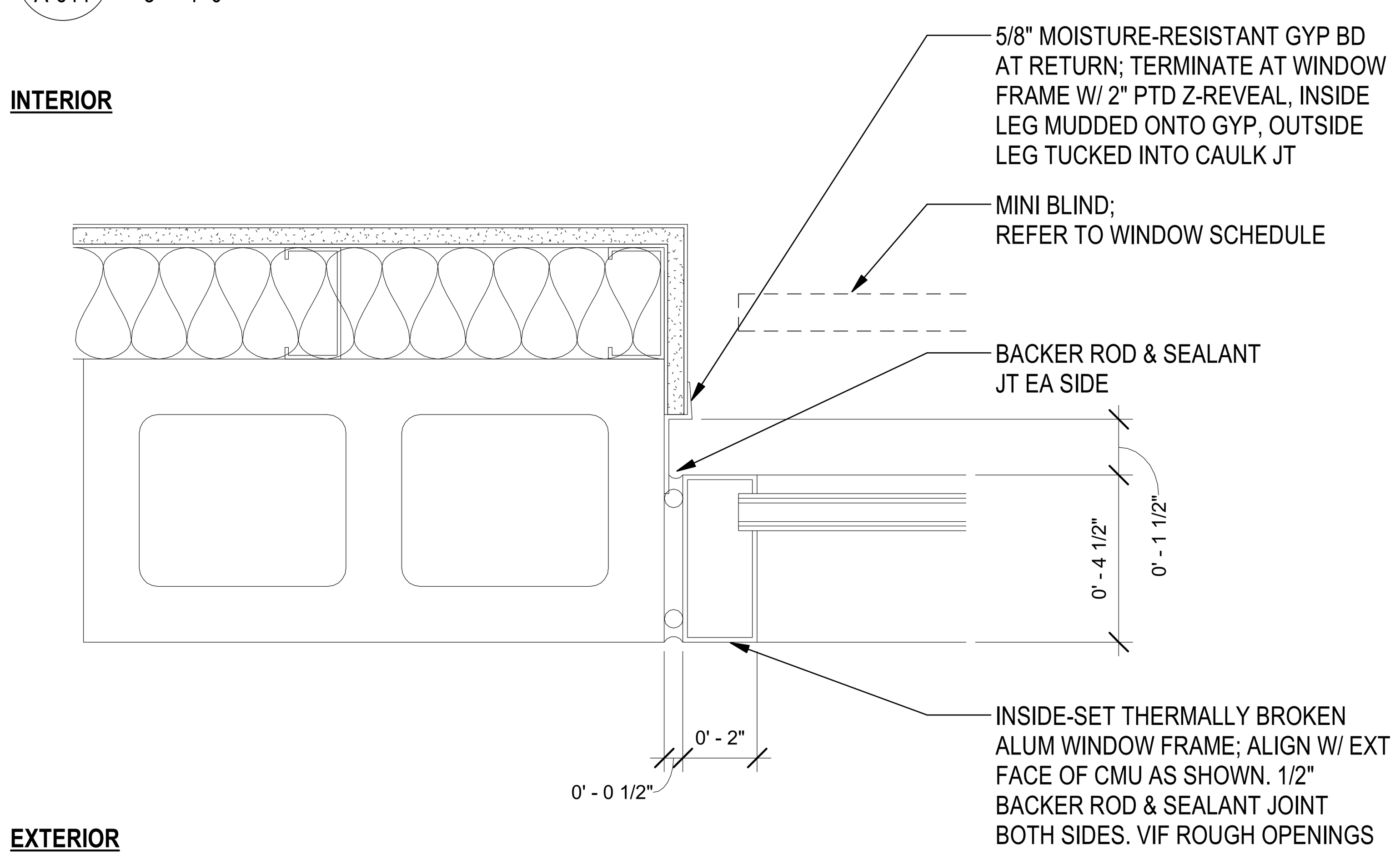
9 A-611 **FIXED LOUVER HEAD/JAMB @ CMU WALL**
3" = 1'-0"



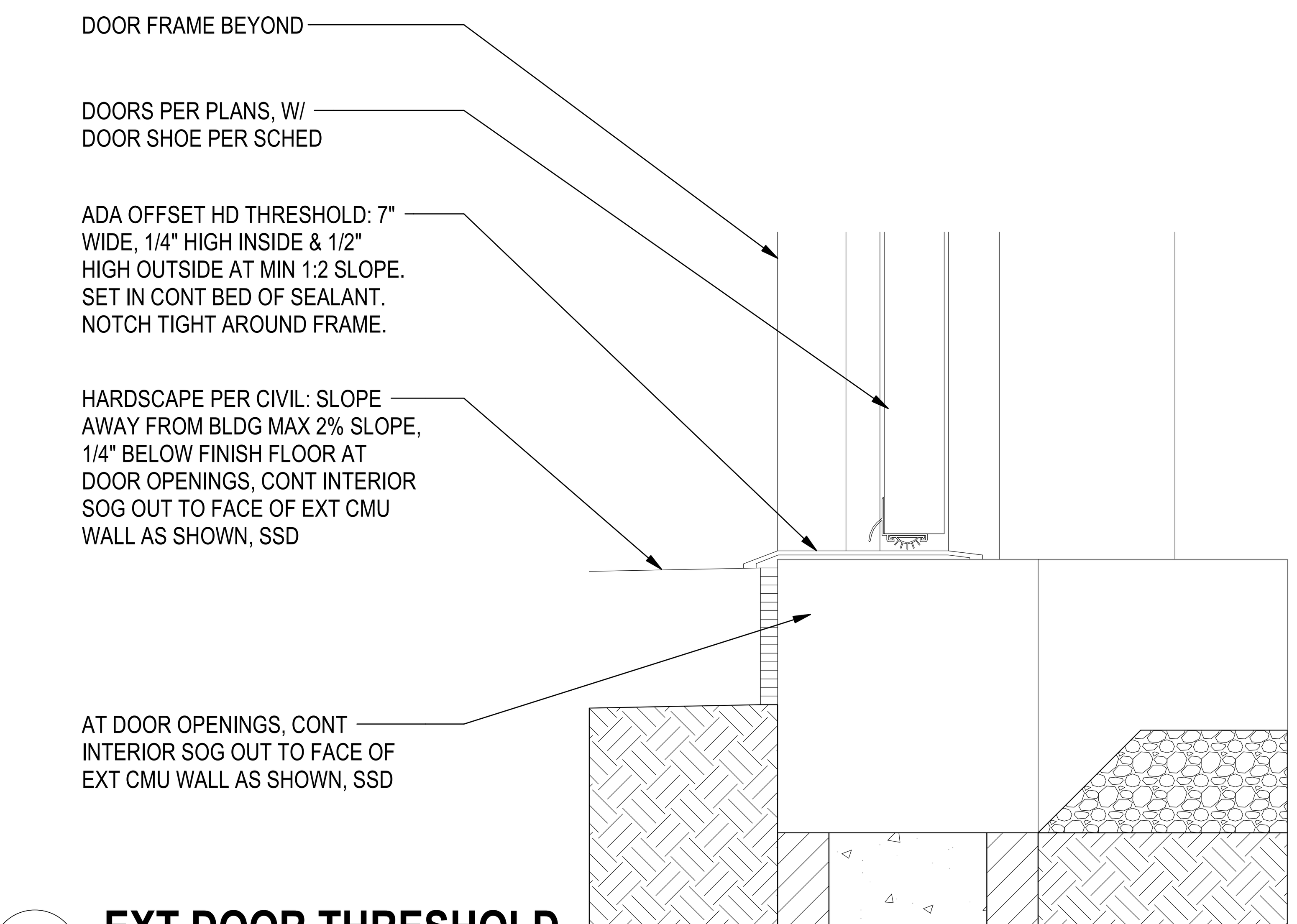
10 A-611 **FIXED LOUVER SILL @ CMU WALL**
3" = 1'-0"



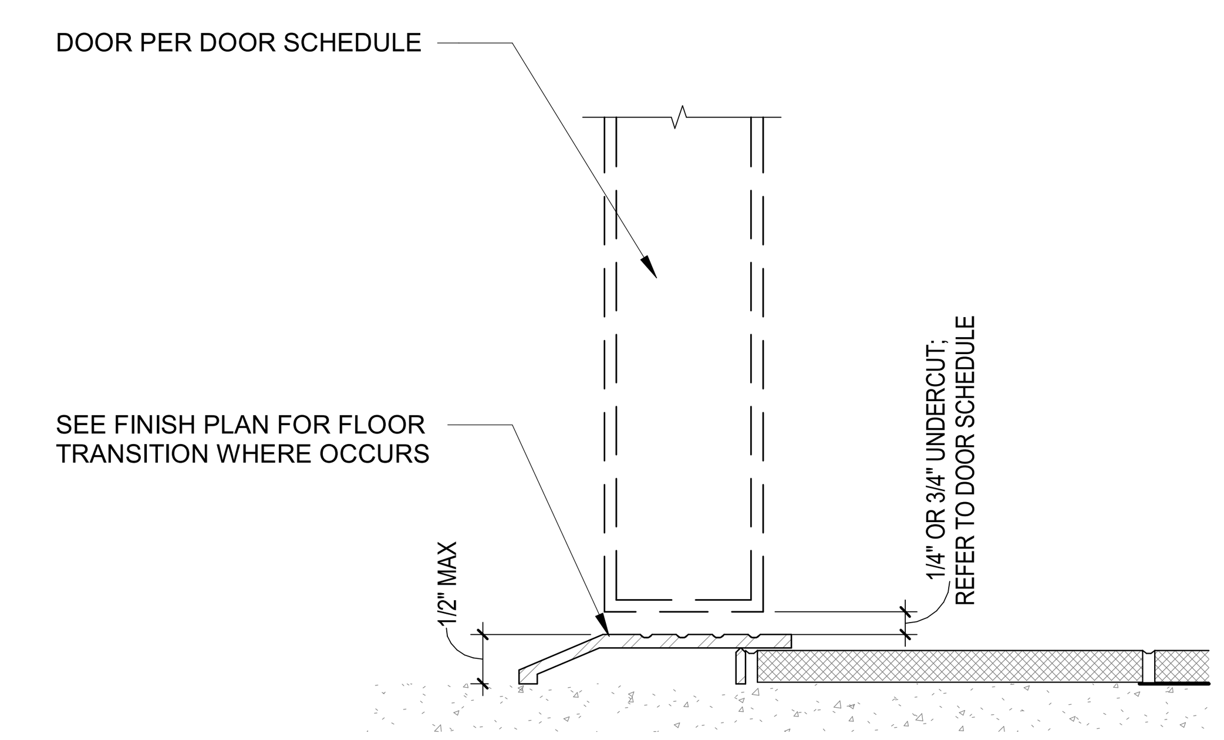
8 A-611 **EXT DOOR THRESHOLD TO TILE**
3" = 1'-0"



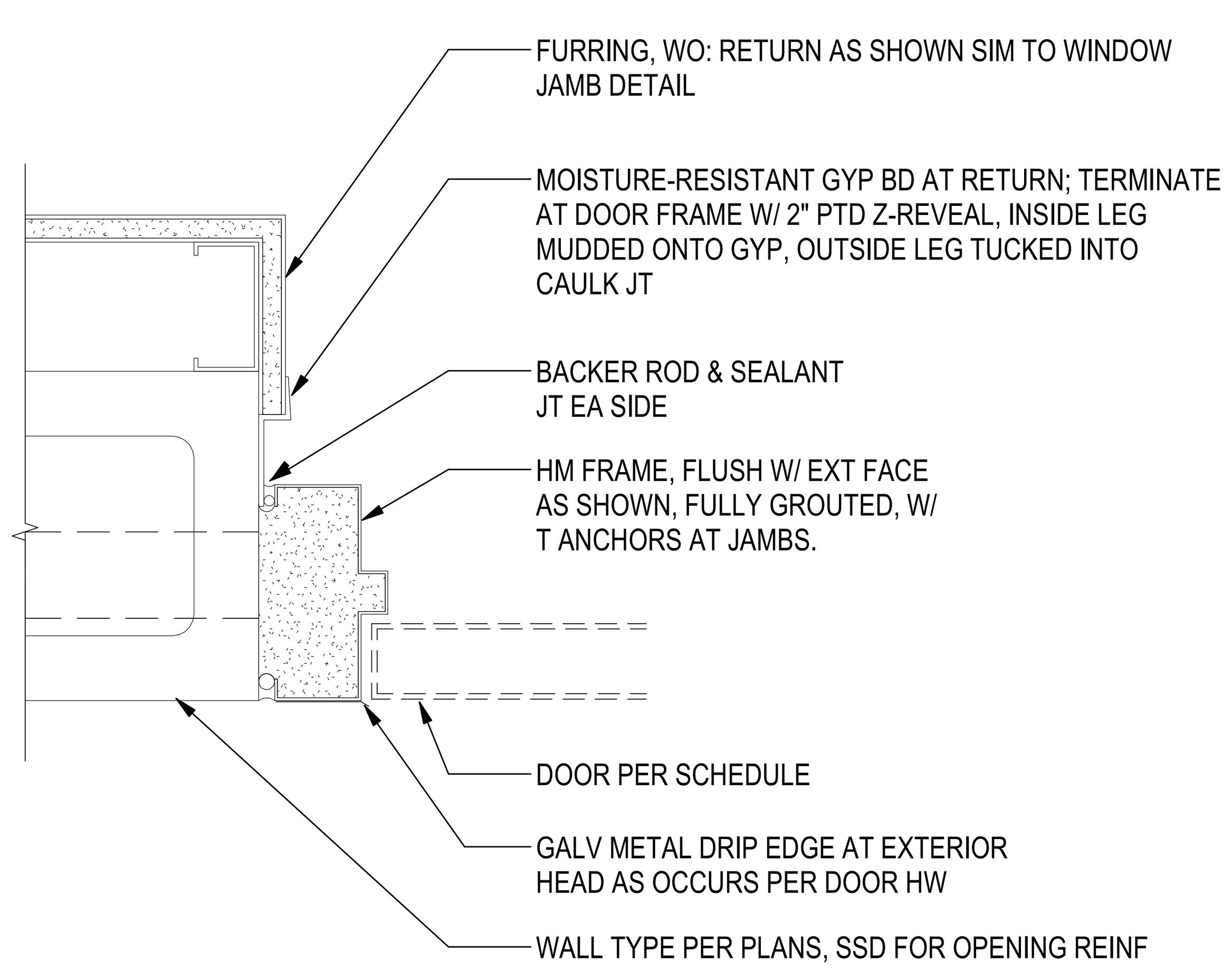
2 A-611 **WINDOW JAMB @ CMU**
3" = 1'-0"



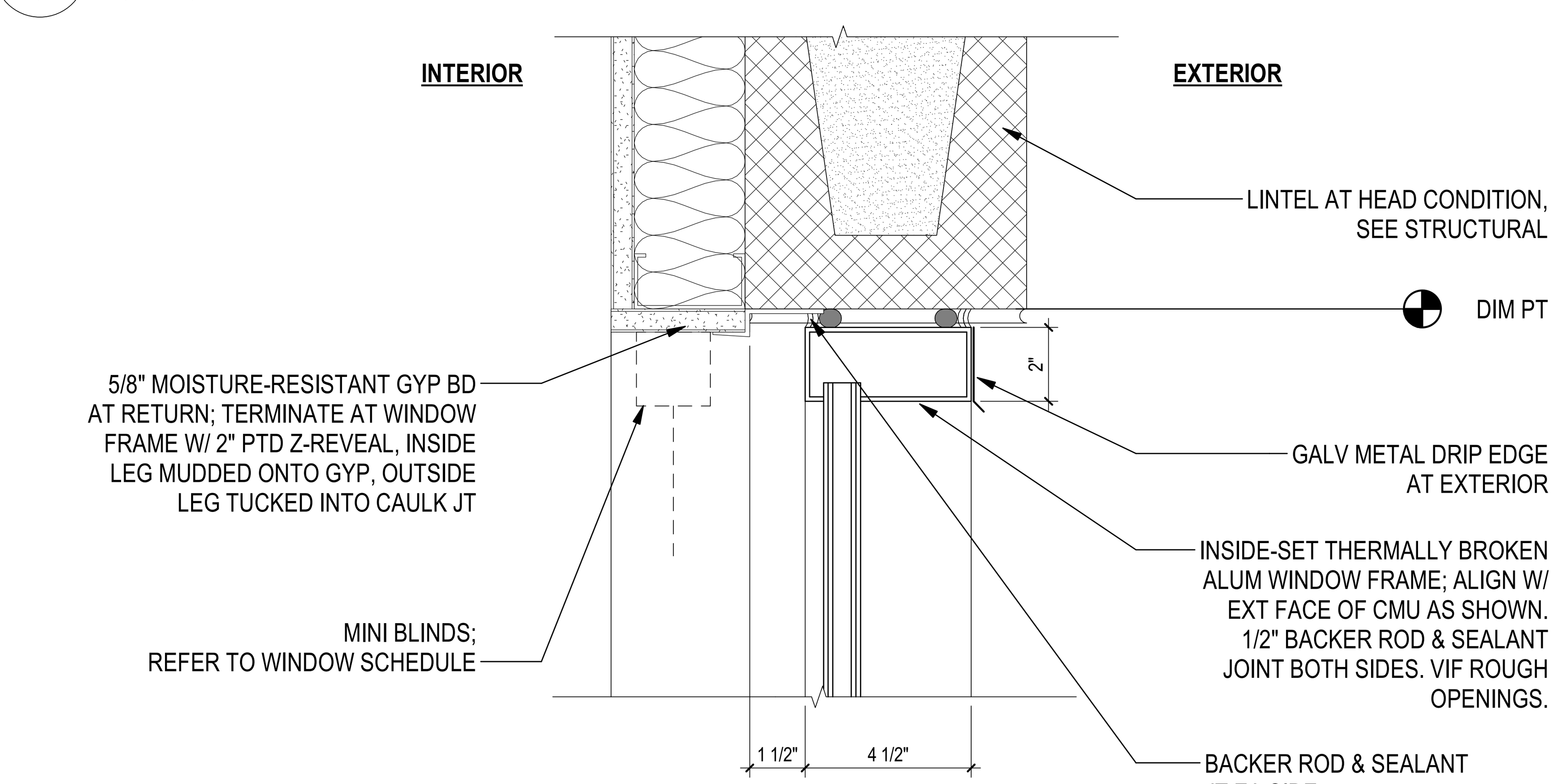
5 A-611 **EXT DOOR THRESHOLD**
3" = 1'-0"



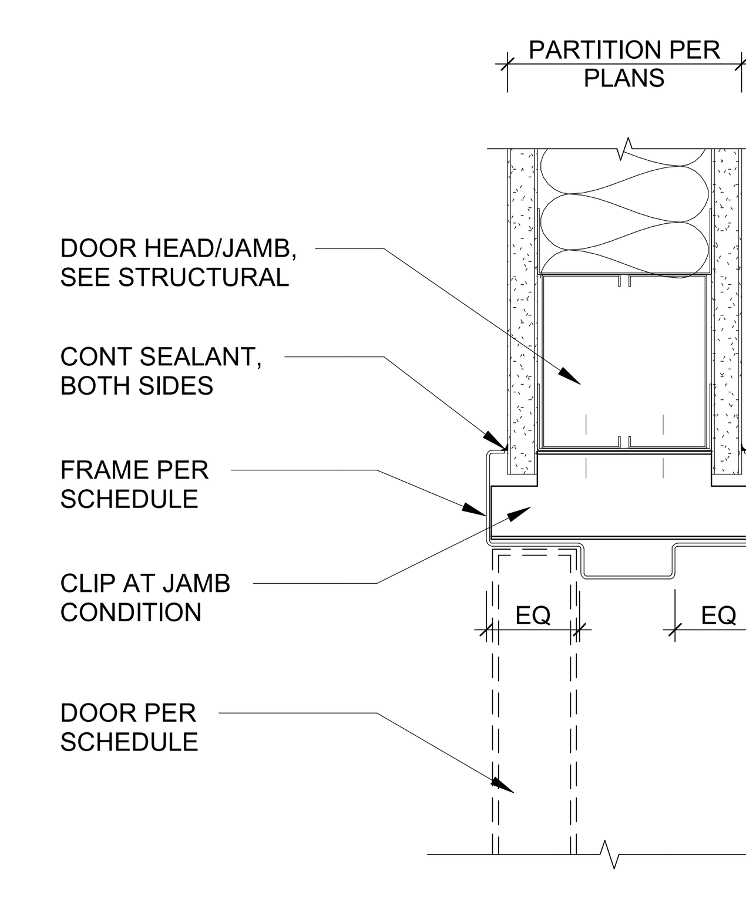
7 A-611 **INTERIOR DOOR SILL - CONCRETE TO TILE**
3" = 1'-0"



1 A-611 **HM DOOR HEAD/JAMB @ CMU**
3" = 1'-0"



4 A-611 **WINDOW HEAD @ CMU**
3" = 1'-0"



6 A-611 **HM DOOR HEAD/JAMB @ INT STUD WALL**
3" = 1'-0"

A-611

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL:

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
DOOR & WINDOW & LOUVER DETAILS

BID DELIVERABLE

PUBLIC LAVATORY
MFR: ACORN
1652LRB
WALL MOUNTED

STAINLESS STEEL PUBLIC RESTROOM WATER CLOSET
MFR: ACORN
1696-W-1
WALL MOUNTED

STAFF LAVATORY
MFR: KOHLER
K-2005-0
WALL MOUNTED

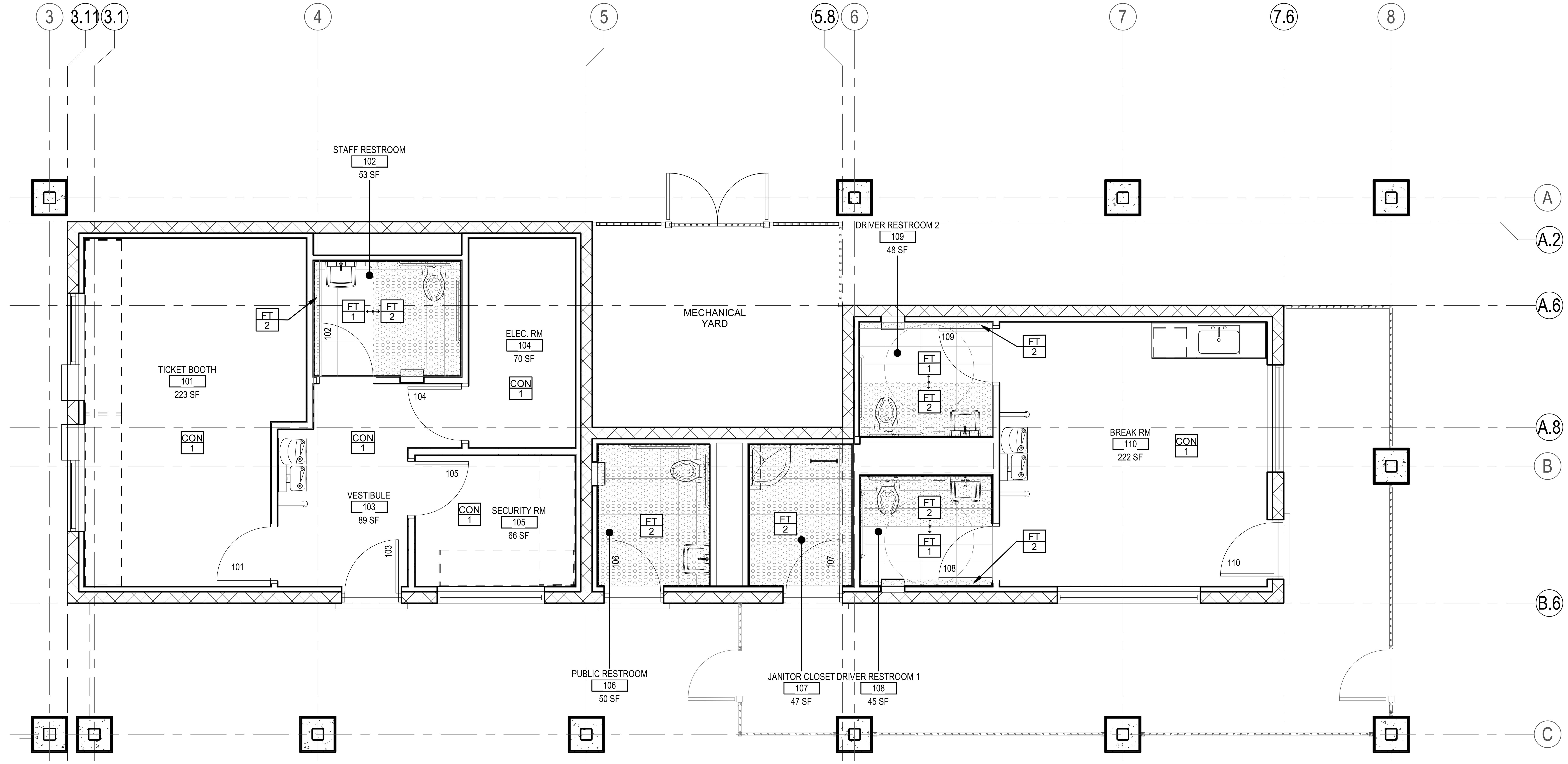
TRASH RECEPTACLES
MFR: BOBRICK
B-3979
SURFACE MOUNTED

1" MINI BLIND
MFR: TBD
COLOR: WHITE
SIZE: VARIES

STAFF RESTROOMS
MFR: AMERICAN STANDARD
3351.528
WALL MOUNTED

TICKET WINDOW
MFR: CREATIVE INDUSTRIES
COLOR: DARK BRONZE ANODIZED ALUMINUM FINISH
SIZE: 24"X48"

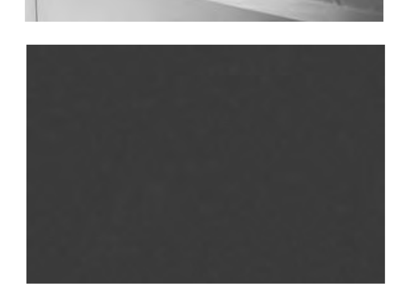
HI-LO DRINKING FOUNTAIN W/ BOTTLE FILLER
MFR: ELKAY



1 BUILDING FINISH PLAN
A-711
1/4" = 1'-0"

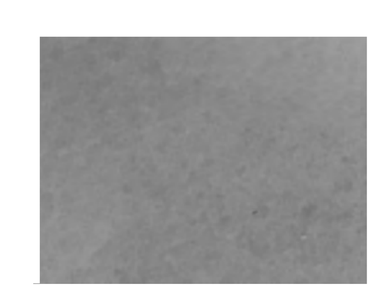
COUNTERTOP, MILLWORK FINISH - BREAK ROOM

SS-1 **SOLID SURFACE COUNTERTOP**
MFR: CORIAN
COLOR: GREY ONYX



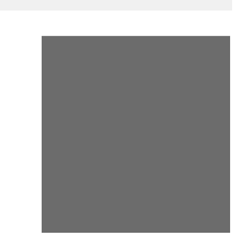
PL-1 **PLASTIC LAMINATE**
MFR: FORMICA
COLOR: GRAPHITE

WALL, FLOOR, BASE - BREAK ROOM, TICKET BOOTH, SECURITY OFFICE, VESTIBULE, ELEC. ROOM



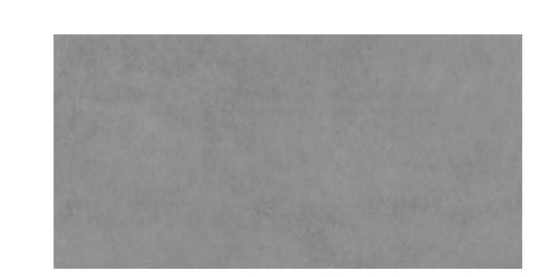
CON-1 **POLISHED CONCRETE**
COLOR: AS-CAST
FINISH: SEALER

PT-1 **INTERIOR WALL & CEILING PAINT**
MFR: BENJAMIN MOORE
COLOR: SUPER WHITE
FINISH: EGG SHELL
SEMI-GLOSS AT RESTROOMS



RB-1 **RUBBER WALL BASE**
MFR: ROPPE
COLOR: 123 CHARCOAL
TYPE: PINNACLE, NO TOE BASE
SIZE: 4"

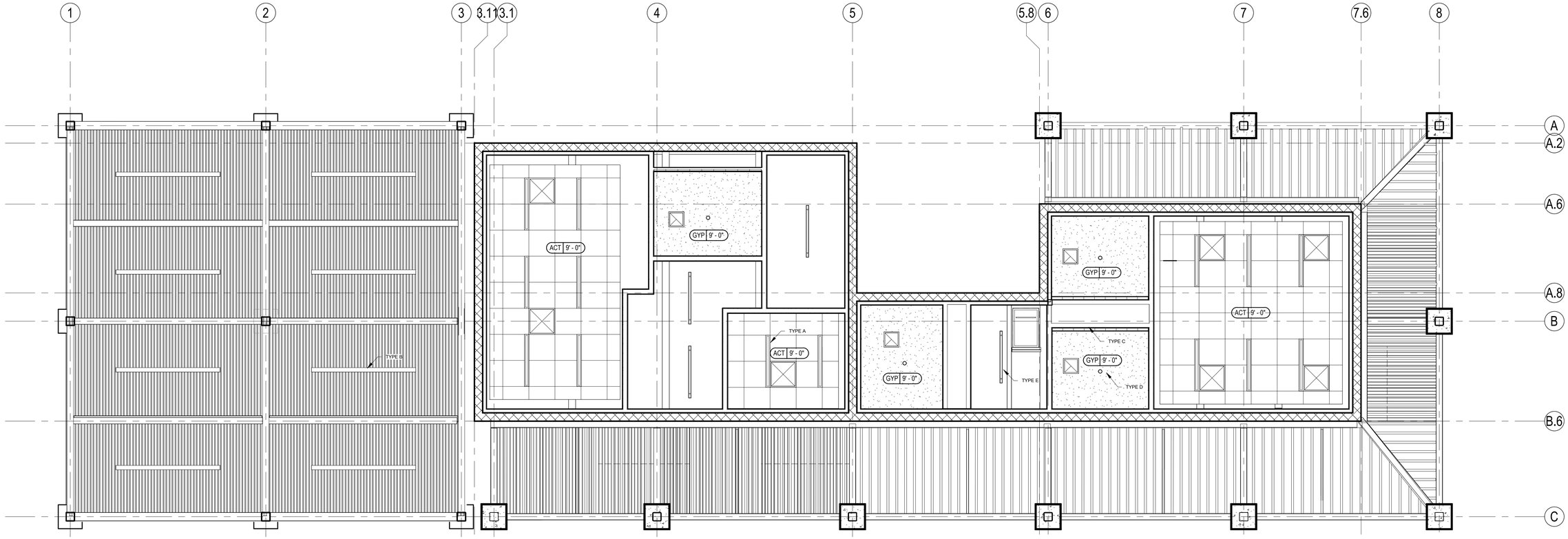
WALL, FLOOR TILE,AND BASE - RESTROOM



WT-1 FT-1 TB-1 **FLOOR, WALL TILE**
MFR: DALTILE
TYPE: PORTFOLIO
COLOR: ASH GREY PF05
FINISH: MATTE
SIZE: 12" X 24" (6"X24" TILE COVE BASE)

WT-2 FT-2 TB-2 **FLOOR, WALL TILE**
MFR: DALTILE
TYPE: VOLUME 1.0
COLOR: INTENSITY PEBBLE VL72
FINISH: MATTE
SIZE: 12" X 24" (6"X24" TILE COVE BASE)

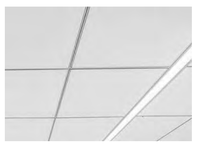
0 2' 4' 8'



1 BUILDING RCP FINISH PLAN

A-712 — 1/4" = 1'-0"

ACOUSTIC CEILING TILE - TICKET BOOTH, SECURITY OFFICE, BREAK ROOM



ACT-1 **ACOUSTICAL CEILING TILE**
MFR: ARMSTRONG
TYPE: ULTIMA
COLOR: WHITE
SIZE: 2' X 2' X 1"
EDGE: SQUARE TEGULAR 9/16

GYPSUM BOARD CEILING - RESTROOMS

GB-1 **GYPSUM BOARD CEILING**
FINISH: PT-1

LIGHTING FIXTURE - TICKET BOOTH, SECURITY OFFICE, BREAK ROOM

LED RECESSED DIRECT - TYPE A
MFR: NEO-RAY

LIGHTING FIXTURE - TICKETING CANOPY

LENSED LED STRIP TOUND AND SQUARE LENS - TYPE B
MFR: NEO-RAY

LIGHTING FIXTURE - RESTROOM

LED RECESSED PERIMETER DIRECT - TYPE C
MFR: NEO-RAY

LIGHTING FIXTURE - RESTROOM

6" LED RECESSED DOWNLIGHT - TYPE D
MFR: NEO-RAY

LIGHTING FIXTURE - VESTIBULE, ELEC. RM, JANITOR CLOSET

4' LED SUSPENDED PENDANT DIRECT - TYPE E
MFR: NEO-RAY

0 2' 4' 8'

A-712

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue Calexico, CA 92231 Tel:760.768.2100 Fax:760.768.0854
engineering@calexico.ca.gov www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT No. C28017 REN 8/31/2025 STATE OF CALIFORNIA

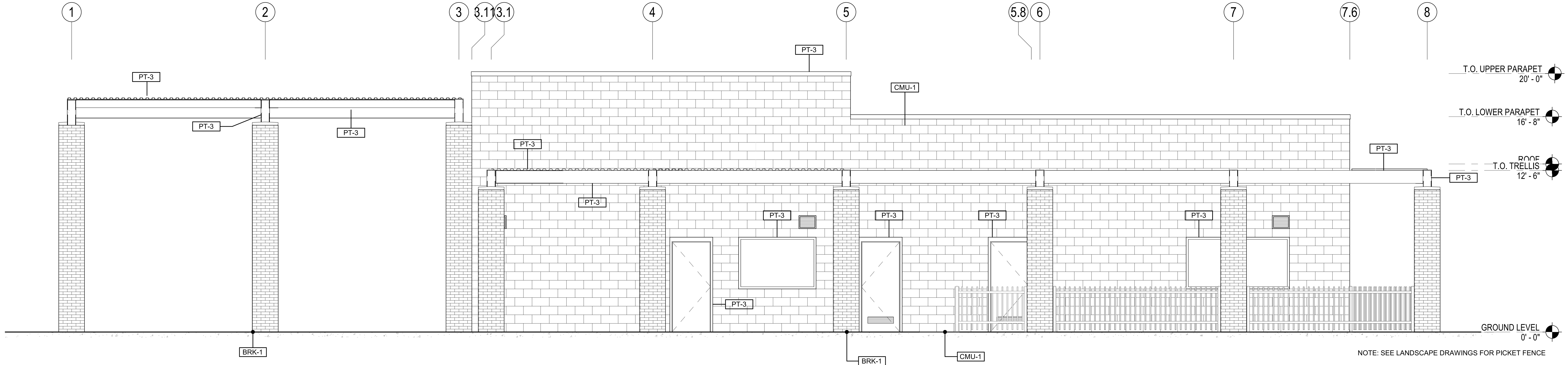
DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
BUILDING FINISH RCP

SHEET:
56
OF
145

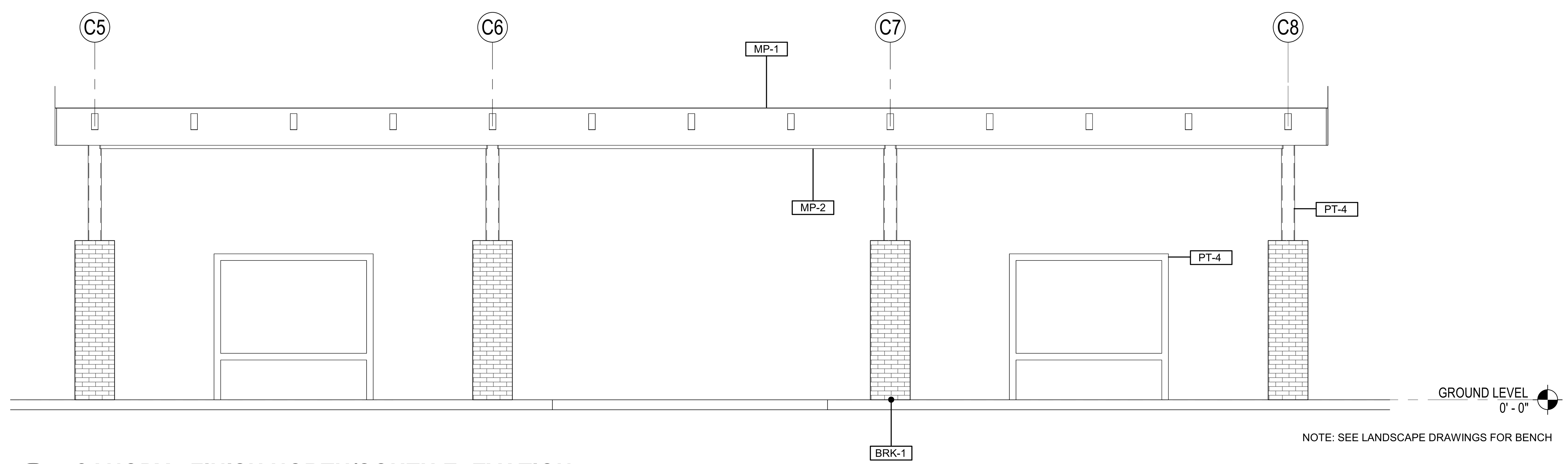
BID DELIVERABLE



NOTE: SEE LANDSCAPE DRAWINGS FOR PICKET FENCE

1 A-713 BUILDING - FINISH SOUTH ELEVATION

1/4" = 1'-0"



NOTE: SEE LANDSCAPE DRAWINGS FOR BENCH

2 A-713 CANOPY - FINISH NORTH/SOUTH ELEVATION

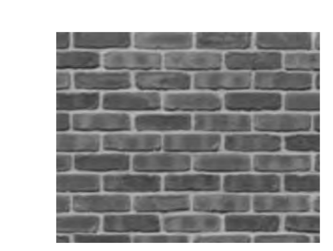
1/4" = 1'-0"

DOOR, DOOR FRAME, WINDOW FRAME

PT-3 **PAINT**
MFR: BENJAMIN MOORE
COLOR: DARK BRONZE
FINISH: SEMI-GLOSS

BUILDING EXTERIOR MATERIAL

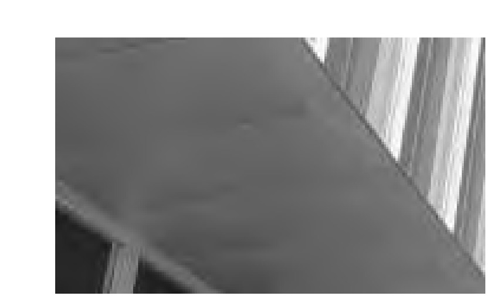
CMU-1 **CONCRETE MASONRY UNIT**
MFR: RCP
COLOR: BUFF
TYPE: PRECISION
SIZE: 8" X 8" X 16"



BRK-1 **THIN BRICK VENEER**
MFR: McNEAR
SERIES: SANDMOLD
COLOR: CAMDEN
SIZE: 7 5/8" X 2 1/4" X 5/8"

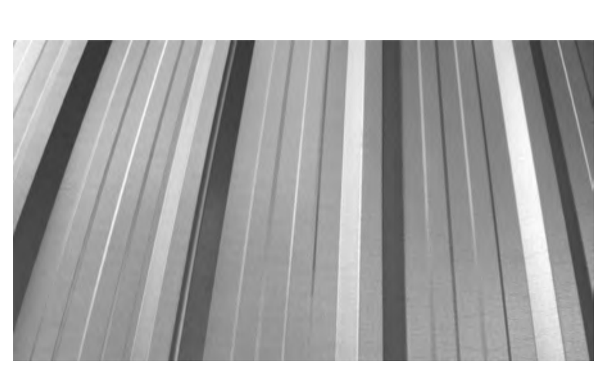
BUS CANOPY MATERIAL

MP-1 **ROOF METAL PANEL**
MFR: MORIN
SERIES: SYMMETRY ROOF SERIES
NO CLIP RELIEF
COLOR: SILVERSMITH
SIZE: 12"



MP-2 **METAL SOFFIT PANEL**
MFR: MORIN
SERIES: PRIMO SOFFIT PANEL
NO REVEAL PS-12-F (SMOOTH)
COLOR: SILVERSMITH
SIZE: VARIES

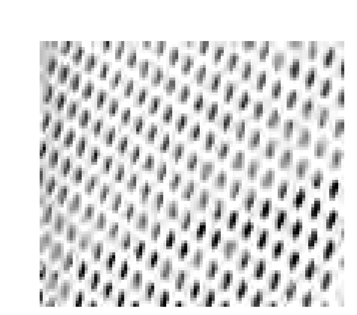
PT-4 **PAINT**
COLOR: TO MATCH METAL PANEL
MP-1 & MP-2 (SILVER SMITH)



CORRUGATED METAL ROOF PANEL
COLOR: TO MATCH PT-3

TICKETING CANOPY AND TRELLIS
COLOR: TO MATCH PT-3

VERTICAL SHADE



ALUMINUM PERFORATED VERTICAL SUN SHADE
COLOR: TO MATCH PT-4

0 2' 4' 8'

A-713

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ICTC ENGINEER DATE

ENGINEER OF WORK: Stantec
801 S. Figueroa Street, Suite 300
Los Angeles, CA 90017
Tel: (213) 955-9775 www.stantec.com

SEAL: LICENSED ARCHITECT STATE OF CALIFORNIA

DRAWN BY: JA
CHECK BY: AC
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: BUILDING & BUS CANOPY FINISH ELEVATION

BID DELIVERABLE

GENERAL SPECIFICATIONS

1. All local, municipal and state laws, rules and regulations governing or relating to any portion of this work are heareby incorporated into and made a part of these specifications and their provisions shall be carried out by Contractor.
2. Contractor shall have a valid contractors license required for the particular work being done. Contractor shall not allow the license(s) to lapse during the contract period.
3. Contractor shall verify the location of all existing utilities, structures, and services before commencing work. The locations of utilities, structures and services shown in these plans are approximate only. Any discrepancies between these plans and actual field conditions shall be reported to the City or Landscape Architect.
4. Contractor shall protect all existing utilities and features to remain on, and adjacent to, the project site during construction. Contractor shall repair, at his own expense, all damage resulting from his operations or negligence.
5. Contractor shall obtain the pertinent engineering and/or architectural plans before beginning work.
6. Contractor shall obtain all necessary permits required to perform the work indicated herein before beginning work.
7. Contractor shall arrange for payment of any permit fees and related expenses with the Owner's authorized representative.
8. Concrete Contractor shall obtain structural soils report prior to beginning work. Earthwork specifications shall take precedence over these specifications.
9. Contractor must check all dimensions, framing conditions and site conditions before starting work. Any discrepancies or possible deficiencies between the plans and specifications with field conditions shall be brought to the immediate attention of the City or Landscape Architect.
10. Contractor shall not willfully install any elements as shown on the plans when it is obvious in the field that unknown conditions exist that were not evident at the time these plans were prepared. Any such conditions shall be brought to the attention of the City's representatives prior to performing any work or Contractor shall assume all responsibility for any field changes deemed necessary by City.
11. All property lines shall be verified prior to commencing work, no construction item, including footings, shall extend past the property line.
12. Contractor shall be responsible for any coordination with subcontractors as required to accomplish all construction operations. All piping, conduit, sleeves, etc., shall be set in place prior to installation of construction items.
13. Contractor shall be responsible for replacing any existing materials that are damaged during construction.
14. The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, barricades, etc. are the sole responsibility of Contractor.
15. Observation visits to the job site by the Landscape Architect do not include observation of or responsibility for construction methods and safety conditions at the worksite. These visits shall not be construed as continuous and detailed observations.
16. All forms and alignment of paving shall be reviewed and approved by the Landscape Architect or City prior to pouring (a minimum of 48 hours notice is required).
17. All proposed surfaces shall meet existing surfaces with smooth and continuous transition and shall be flush along entire edge.
18. All dimensions are from outside face of paving, wall, curb, pool shell, etc. unless otherwise noted on plan. All angles are 90 or 45 degrees unless otherwise noted.
19. Contractor shall maintain a qualified, English-speaking supervisor on site at all times during installation. Supervisor shall keep and have available a current copy of the landscape and irrigation construction plans on which "As Built" notes shall be recorded.
20. Contractor shall assume sole and complete responsibility for the job site conditions during construction of this project, including the safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours. Contractor shall protect all construction and landscaping from damage and, when required, provide guards or covering. Any damage shall be repaired or replaced at the Contractor's expense.
21. Contractor shall defend, indemnify and hold City and Landscape Architect harmless from any liability, real or alleged, in connection with the performance of the work on this project, including any claims arising out of his operations or the operations of any of his subcontractors, material suppliers, or agents excepting for liability arising from the sole negligence of the City or Landscape Architect.

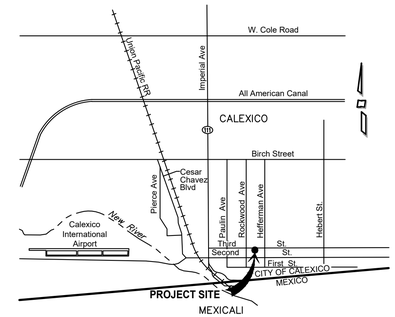
LANDSCAPE PLANS PREPARED FOR:

CALEXICO INTERMODEL TRANSPORTATION CENTER

AT THIRD STREET BETWEEN ROCKWOOD AVE. TO HEFFERNAN AVE.

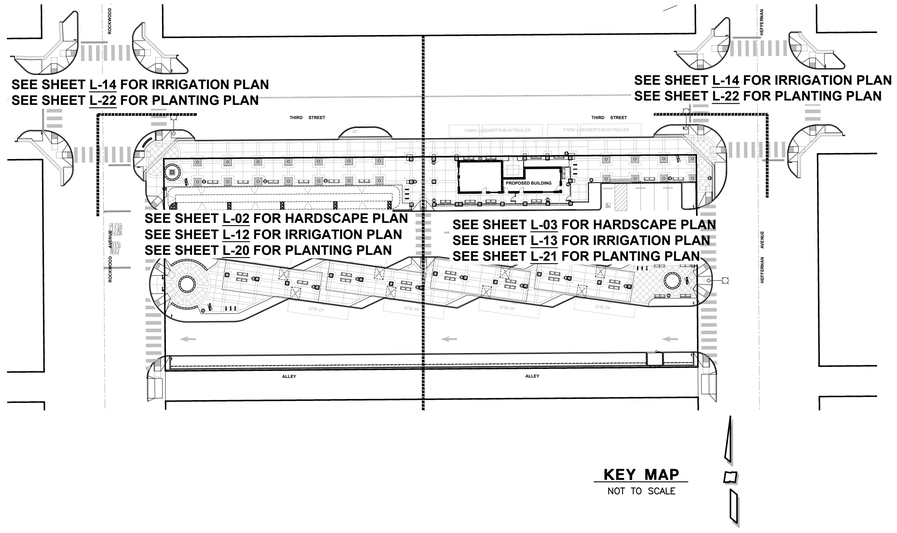
CITY OF CALEXICO

IMPERIAL COUNTY, CALIFORNIA



VICINITY MAP
NOT TO SCALE

LANDSCAPE SHEET INDEX:



KEY MAP
NOT TO SCALE

CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CALL: TOLL FREE
811
TWO WORKING DAYS BEFORE YOU DIG

UNAUTHORIZED CHANGES & USES
The landscape architectural firm preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

MAINTENANCE
Client is solely responsible for maintenance in all areas such as, but not limited to, tree pruning & maintenance, maintenance of the irrigation system to avoid over spray onto structures, water runoff or soil saturation that may result in damage to property, persons, or plants. Client is solely responsible for the results of any lack of or improper maintenance.

PREPARED FOR:

IMPERIAL COUNTY
TRANSPORTATION COMMISSION
1503 N Imperial Ave #104
El Centro, CA 92243
760.592.4494

PREPARED BY:

TESHIMA DESIGN GROUP
Contact: Mark Stempniak
9903 Businesspark Avenue, Suite 101
San Diego, CA 92131
858.693.8824

L-01

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH: (858) 693-8824 FAX: (858) 693-8182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · 6-30-24 · STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

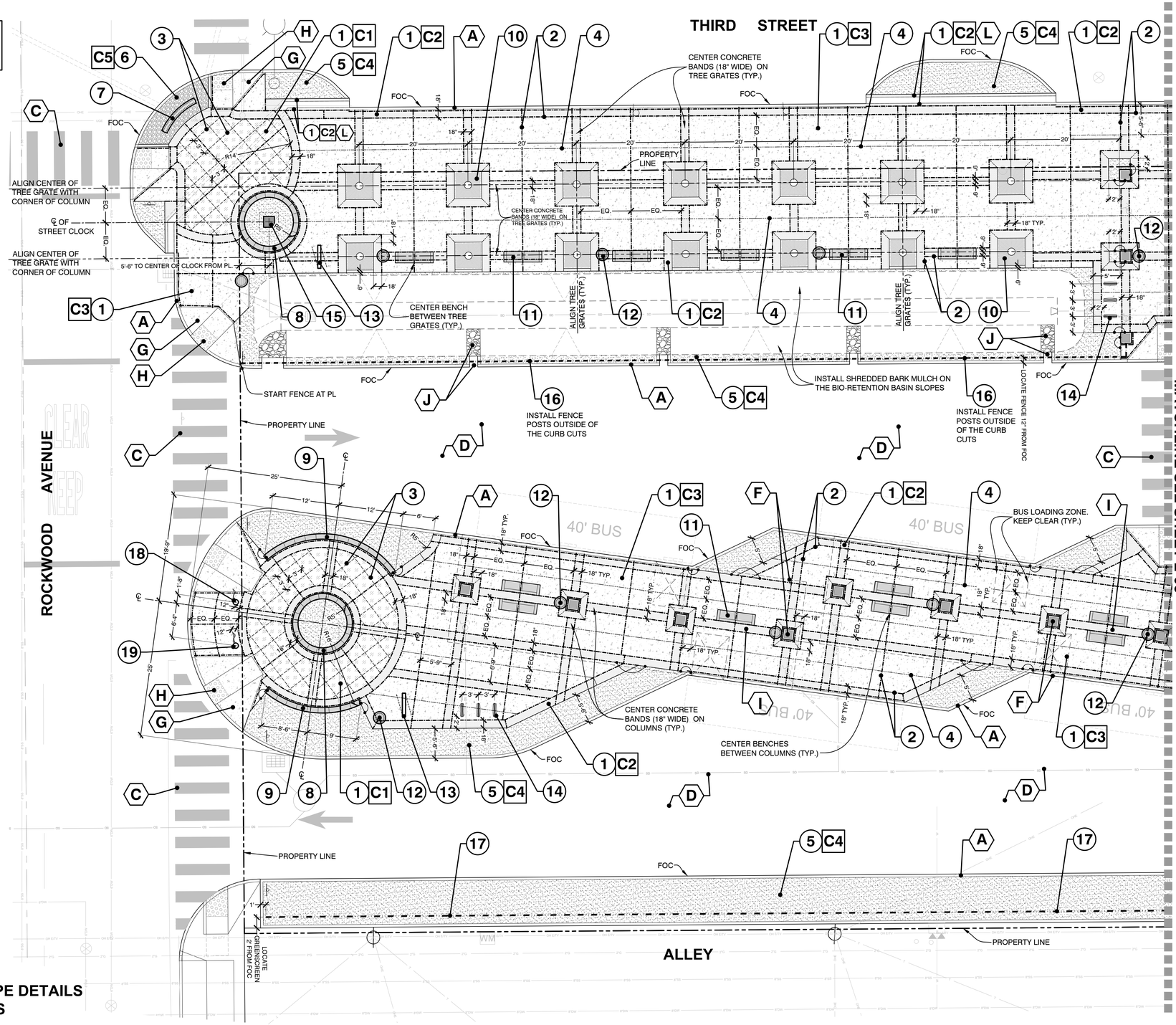
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
LANDSCAPE TITLE SHEET

SHEET: 58 OF 145

BID DELIVERABLE

NOTE:
CONCRETE COLOR AND FINISH FOR THE OFF-SITE BULB-OUTS SHALL BE PER CIVIL ENGINEER'S DRAWINGS



North

0 5' 10' 20'

SCALE: 1"=10'-0"

SEE SHEET L-04 AND L-05 FOR HARDSCAPE LEGENDS
SEE SHEET L-04 FOR COLOR AND FINISH SCHDEULE
SEE SHEET L-05 FOR HARDSCAPE NOTES
SEE SHEET L-06, L-07, L-08, L-09, L-10 AND L-11 FOR HARDSCAPE DETAILS
SEE BOOK SPECIFICATIONS FOR HARDSCAPE SPECIFICATIONS

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: ICTC _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH: (858) 693-4824 FAX: (858) 693-1182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA 6-30-24 2-1-24 STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

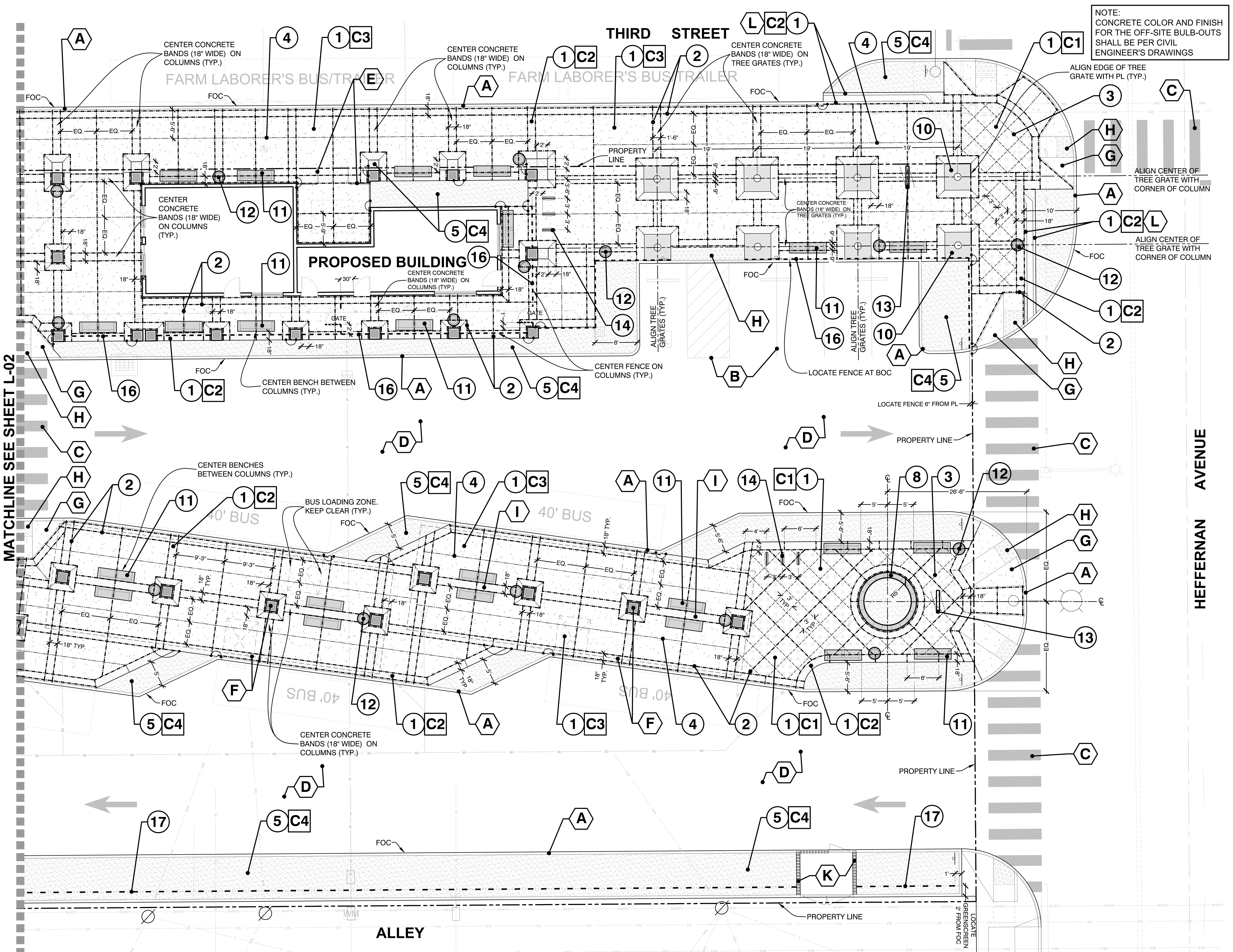
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

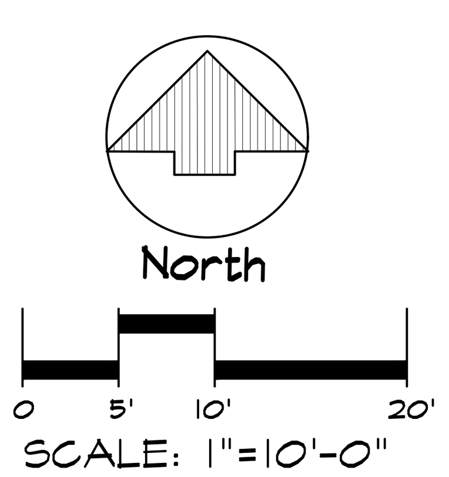
SHEET TITLE:
HARDSCAPE PLAN

SHEET: 59 OF 145

L-02

BID DELIVERABLE





SEE SHEET L-04 AND L-05 FOR HARDSCAPE LEGENDS
SEE SHEET L-04 FOR COLOR AND FINISH SCHDEULE
SEE SHEET L-05 FOR HARDSCAPE NOTES
SEE SHEET L-06, L-07, L-08, L-09, L-10 AND L-11 FOR HARDSCAPE DETAILS
SEE BOOK SPECIFICATIONS FOR HARDSCAPE SPECIFICATIONS

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APPROVED BY: ENGINEER DATE
SEAL:
APPROVED BY: ICTC ENGINEER DATE

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TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE • LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 • SAN DIEGO, CA 92131
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: HARDSCAPE PLAN

SHEET: 60 OF 145

L-03

BID DELIVERABLE

HARDSCAPE LEGEND

SYMBOL	KEY	DESCRIPTION	DETAIL/SHEET REFERENCE
	1	**Install Pedestrian Concrete Paving**	Detail H15, on Sheet L-11.
	2	**Install Expansion Joint**	Detail H14, on Sheet L-11.
	3	**Install Sawcut Contraction Joint**	Detail H14, on Sheet L-11.
	4	**Install Tooled Contraction Joint**	Detail H14, on Sheet L-11.
	5	**Install Decomposed Granite**	Detail H3, on Sheet L-06.
	6	**Install Crushed Rock**	Detail H3, on Sheet L-06.
	7	**Install Signage Monument (1 Total).** Signage Monument shall be pre-cast concrete, Model Q-9A-S with Harvest Color, Craftsman's Etch finish and anti-graffiti Permashield 5400 sealer, as available from: QCP 731 Parkridge Avenue Norco, CA 92860 Contact: Scott Ulrich Phone: 866-703-3434 Signage Monument shall be installed with City of Calexico logo. City of Calexico logo shall be provided by the city prior to ordering. Letter height and style shall be coordinated with City of Calexico and signage consultant prior to ordering. Install per manufacturer instruction.	Detail H7, on Sheet L-08.
	8	**Install Raised Planter with Seatwalls (3 Total).** Seatwall shall be split-face block (8x8x8) construction with pre-cast concrete cap. Split-face block shall be La Paz color as manufactured by RCP Block & Brick, Inc. Phone: 800-794-4727. Pre-cast concrete cap shall be Product Number: Q-WC-ANACAPA-12 with custom 5' radius as manufactured by QCP. Contact Scott Ulrich at 866-703-3434. Cap shall be Harvest color with Craftsman's Etch finish with anti-graffiti Permashield 5400 sealer. All caps shall have skate indentations. 1. For all custom radius caps allow enough lead time to meet the construction schedule. 2. Provide adequate drainage in all raised planters. Connect to site drainage system per Civil Engineer's plan.	Detail H4, on Sheet L-07.
	9	**Install Seatwall (2 Total).** Seatwall shall be split-face block (8x8x16) construction with pre-cast concrete cap. Split-face block shall be La Paz color as manufactured by RCP Block & Brick, Inc. Phone: 800-794-4727. Pre-cast concrete cap shall be Product Number: Q-WC-ANACAPA-12 with custom 16' radius as manufactured by QCP. Contact Scott Ulrich at 866-703-3434. Cap shall be Harvest color with Craftsman's Etch finish and anti-graffiti Permashield 5400 sealer. All caps shall have skate indentations. 1. For all custom radius caps allow enough lead time to meet the construction schedule.	Detail H5, on Sheet L-07.
	10	**Install Tree Grate (22 Total).** Tree grates shall be (5'x5'), Model # SP STYLE 60" TREE GRATE 1.5 THICK 1/4 INCH GAP with 24" opening. Tree Grate color shall be black powder coat. Install with CI STYLE 60" Tree Grate Frame. Tree grates and frame as available from: South Bay Foundry 9444 Abraham Way Santee, CA 92071 Contact: Amanda Anderson Phone: 619-212-0273 or 619-956-2780 Install per manufacturer's specifications	Detail H6, on Sheet L-07.
	11	**Install Concrete Bench (36 Total).** Bench shall be pre-cast concrete Victoria Bench, Model Q1-VIC84B Modified with BNAR-VIC armrest, Harvest Color, Craftsman's Etch finish and anti-graffiti Permashield 5400 sealer, as available from: QCP 731 Parkridge Avenue Norco, CA 92860 Contact: Scott Ulrich Phone: 866-703-3434	Detail H12, on Sheet L-10.
	12	**Install Trash Receptacle (25 Total).** Trash Receptacle shall be pre-cast concrete, Model QR-CAL2436W-HOVER19 with lid hover, plastic liner, Harvest Color, Craftsman's Etch finish and anti-graffiti Permashield 5400 sealer, as available from: QCP 731 Parkridge Avenue Norco, CA 92860 Contact: Scott Ulrich Phone: 866-703-3434	Detail H8, on Sheet L-08.
	13	**Install Informational Kiosk (4 Total).** Sierra Flat back-to-back information display kiosk with two side-hinged doors containing 3/16" clear tempered glass, radius tube with logo disc (logo provided by city) at the top of the kiosk, super durable baked powder coat finish color, adjustable leveling mounting shoes, zinc anchors, Model 18226-00. Color shall be as approved by City of Calexico and Imperial Valley Transit. Available from: Tolar Manufacturing Company Inc. 258 Mariah Circle Corona, CA 92879 Contact: Patrick Merrick Phone: (800) 339-6165 Bolt down to concrete slab. Install per manufacturer's specifications.	Detail H13, on Sheet L-10.
	14	**Install Bike Rack (12 Total).** Bike Rack shall be, Model Q-CIRQ-BR with Harvest Color and Craftsman's Etch finish, as available from: QCP 731 Parkridge Avenue Norco, CA 92860 Contact: Scott Ulrich Phone: 866-703-3434 Bolt down to concrete slab. Install per manufacturer's specifications	Detail H11, on Sheet L-10.
	15	**Install Street Post Clock (1 Total).** Street Post Clock shall be 4-face, Model 4MST Howard Replica/Seth Thomas. Color shall be black with "Victorian" Numerals Dial. Clock shall have "City of Calexico" top header. Available from: The Verdin Company 444 Reading Road Cincinnati, Ohio 45202 Contact: Kathy Svatek Phone: 512-247-2907 or 800-543-0488 Installation and footing per manufacturer's specifications	Detail H1, on Sheet L-06.
	16	**Install 42" High Wrought Iron Fence with Gates (2) Single Gates.** Fence and gates color shall be black powder coat.	Detail H10, on Sheet L-09.
	17	**Install Greenscreen.** Greenscreen shall be installed with free standing square posts spaced at 100" O.C. Panels shall be 4'X8' attached to the posts with #5133X Snap Clips. Greenscreen shall be powder coated with Matte Texture Green color. Install #5105 Steel Edging Trim at the top and bottom of the Greenscreen. Available from: Greenscreen 725 Figueroa Street, Suite 1825 Los Angeles, CA 90017 Contact: Lori Lumsden Phone: 310-837-0526 or 800-450-3494 Installation and footing per manufacturer's specifications	Detail H2, on Sheet L-06.
	18	**Install Flag Pole (1 Total).** Flag poles shall be Sentry 2 - 30x6x.156, 30' High with satin finish as manufactured by: Concord Industries, Inc. 4150-A Kellway Circle Addison, Texas 75881 Available from: Pacific Flag Pole Service Contact: Nick De Graaf Phone: 858-692-2555 Installation and footing shall be per manufacturer's recommendation and structural engineer	Detail H9, on Sheet L-09.
	19	**Install Flag Pole (1 Total).** Flag poles shall be Sentry 2 - 40x8x.188, 40' High with satin finish as manufactured by: Concord Industries, Inc. 4150-A Kellway Circle Addison, Texas 75881 Available from: Pacific Flag Pole Service Contact: Nick De Graaf Phone: 858-692-2555 Installation and footing shall be per manufacturer's recommendation and structural engineer	Detail H9, on Sheet L-09.

COLOR AND FINISH SCHEDULE

SYMBOL	KEY	DESCRIPTION	MANUFACTURER	COLOR	FINISH	COMMENTS
	C1	Pedestrian Concrete Paving	Davis Color	Southern Blush 10134	Medium Broom. See comments.	Install with 36" x 36" diagonal saw cuts. Expansion joints, sawcut contraction joints and tooled contraction joints per plan.
	C2	Pedestrian Concrete Paving	Davis Color	Outback 6771	Smooth Troweled Bands	Expansion joints, sawcut contraction joints and tooled contraction joints per plan.
	C3	Pedestrian Concrete Paving	Davis Color	Mesa Buff 5447	Medium Broom.	Expansion joints, sawcut contraction joints and tooled contraction joints per plan.
	C4	Decomposed Granite, 3" Deep	KRC Rock Landscape and Building Material, Phone (800) 572-7625	Desert Gold	N/A	Install with water permeable weed barrier fabric. Weed barrier fabric shall be DeWitt Weed Barrier Pro in brown color as available from Villa Landscape Products, Phone (800) 654-4067.
	C5	Crushed Rock - 3/4" size, 3" Deep	KRC Rock Landscape and Building Material, Phone (800) 572-7625	Desert Beige	N/A	Install with water permeable weed barrier fabric. Weed barrier fabric shall be DeWitt Weed Barrier Pro in brown color as available from Villa Landscape Products, Phone (800) 654-4067.

SEE SHEET L-05 FOR HARDSCAPE NOTES
SEE SHEET L-05 FOR ADDITIONAL LEGENDS
SEE SHEET L-06, L-07, L-08, L-09, L-10 AND L-11 FOR HARDSCAPE DETAILS
SEE BOOK SPECIFICATIONS FOR HARDSCAPE SPECIFICATIONS

HARDSCAPE NOTES

A. VISIT THE SITE PRIOR TO SUBMITTING BIDS.

B. SUBMIT A UNIT COST FOR IMPORT SOIL IN-PLACE AND BE COMPLETELY AWARE OF THE AMOUNT OF SOIL NECESSARY TO REACH THE SATISFACTORY GROUND LEVEL.

C. VERIFY ALL PROPERTY LINES OR OTHER LIMIT OF WORK LINES PRIOR TO COMMENCING WORK.

D. REPAIR OR REPLACE ANY DAMAGE TO ADJACENT PROPERTIES, CURBS, WALKS, PLANTING, WALLS, ETC. AT NO ADDITIONAL COST TO THE OWNER.

E. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLAN.

F. REPORT DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT. CORRECTED DRAWINGS OR INSTRUCTIONS SHALL BE ISSUED PRIOR TO THE CONTINUATION OF THIS WORK. ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY CORRECTIONS DUE TO FAILURE TO REPORT KNOWN DISCREPANCIES.

G. LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND PROTECT THEM FROM DAMAGE. NOTIFY THE OWNER IMMEDIATELY IF DAMAGE OCCURS AND ASSUME FULL RESPONSIBILITY FOR EXPENSE OF REPAIR OR REPLACEMENT.

H. COMPLY WITH ALL PROVISIONS OF THE LATEST BUILDING CODE, CURRENT EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN, AND WITH OTHER CURRENT RULES, REGULATIONS AND ORDINANCES GOVERNING THE PLACE OF THE WORK. BUILDING CODE REQUIREMENTS TAKE PRECEDENCE OVER THE DRAWINGS AND IT SHALL BE THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIALS OR BOTH TO BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES OR CONFLICTS BETWEEN THE REQUIREMENTS OF THE CODE AND THE DRAWINGS.

I. LOCATIONS OF N.I.C. CONSTRUCTION ELEMENTS SUCH AS LIGHTS, SIGNS, VENTS, HYDRANTS, TRANSFORMERS, ETC., ARE APPROXIMATE. NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY SHOULD THE LOCATION OF THESE ITEMS INTERFERE WITH THE PROPER EXECUTION OF WORK.

J. VERIFY ALL PAVING AND HARDSCAPE CONSTRUCTION DRAWINGS WITH SOIL ENGINEER'S REPORT WITH REGARD TO BASE PREPARATION AND FOOTING REQUIREMENTS. NOTIFY THE OWNER IMMEDIATELY IF SOILS REPORT RECOMMENDATIONS DIFFER FROM DRAWINGS. THE SOILS REPORT RECOMMENDATIONS, IF MORE STRINGENT THAN THE DRAWINGS, SHALL TAKE PRECEDENCE.

K. BE RESPONSIBLE FOR COORDINATION BETWEEN SUBCONTRACTORS FOR PROPER AND TIMELY PLACEMENT OF SLEEVING, PIPING AND / OR CONDUIT INSTALLATION UNDER OR THROUGH LANDSCAPE ELEMENTS.

L. DO NOT SCALE DRAWINGS.

M. PROVIDE A SAMPLE OF EACH HARDSCAPE ELEMENT. ITEMS TO INCLUDE, BUT ARE NOT LIMITED TO PAVING COLOR AND FINISH SCHEDULES. SAMPLES TO BE PLACED IN A LOCATION SPECIFIED BY THE OWNER'S AUTHORIZED REPRESENTATIVE FOR REVIEW AND APPROVAL BY THE OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. REFER TO MOCK-UP REQUIREMENTS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

N. WHERE PAVING AND FINISH GRADE MEET, DEPRESS FINISH GRADE 1-1/2" IN GROUND COVER / SHRUB AREAS, UNLESS OTHERWISE INDICATED.

O. PROJECT WALKS SHALL NOT EXCEED A SLOPE OF 20:1 (5% GRADIENT) UNLESS OTHERWISE INDICATED.

P. HANDICAP RAMPS SHALL NOT EXCEED 12:1 OR 8.33%.

Q. PLANTER AREAS SHALL NOT EXCEED 2:1 SLOPE UNLESS OTHERWISE INDICATED.

R. HOLD FINISH GRADE A MINIMUM OF 6" BELOW FINISH FLOOR, UNLESS OTHERWISE INDICATED.

S. CONSTRUCT ALL CURVE TO CURVE AND CURVE TO TANGENT LINES TO BE NEAT, TRIM, SMOOTH AND UNIFORM.

T. CONSTRUCT ALL CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, UNLESS OTHERWISE INDICATED.

U. PROVIDE THE OWNER WITH ALL WARRANTIES, GUARANTEES, AND INSTRUCTION MANUALS FOR EQUIPMENT, APPLIANCES, FIXTURES, ETC. AS DESCRIBED IN THE SPECIFICATIONS.

MOCK-UP REQUIREMENTS

A. HARDSCAPE PAVING - PROVIDE (1) 4' x 4' SQUARE MOCK-UP FOR EACH PAVING TYPE NOTED IN THE COLOR AND FINISH SCHEDULE. EACH MOCK-UP TO INCLUDE THE SPECIFIED COLOR, FINISH, AND AN EXAMPLE OF EACH JOINTING TYPE NOTED IN THE CONSTRUCTION KEYNOTES AND DETAILS.

B. HARDSCAPE ELEMENTS - PROVIDE A PHYSICAL SAMPLE OF SPECIFIED MATERIALS (COLOR, FINISH, AND SEALER) TO THE OWNER AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ORDER.

C. MOCK-UPS TO BE PROTECTED ON-SITE THROUGHOUT THE DURATION OF THE CONSTRUCTION SCHEDULE.

D. REMOVE MOCK-UPS AT COMPLETION OF CONSTRUCTION WHEN DIRECTED BY THE OWNER OR LANDSCAPE ARCHITECT.

E. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

ABBREVIATION AND SYMBOL LEGEND

	Align
ALT	Alternative
	Center Line
CLR	Clear
CMU	Concrete Masonary Unit
	Curb Core
DLT	Detail
DN	Down Steps
EQ.	Equal
EX	Existing
FF	Finished Floor
FG	Finished Grade
FOC	Face of Curb
FOB	Face of Building
FS	Finished Surface
H, W	Height, Width
HP	High Point
MAX.	Maximum
MIN.	Minimum
O.C.	On Center
P/A	Planter Area
PL	Property Line
POB	Point of Beginning
Rx'	Radius
S.W.	Sidewalk
S.Q.	Square
T.C.	Top of Curb
T.F.	Top of Footing
TYP.	Typical
	Center of Circle

THE FOLLOWING ITEMS ARE FOR REFERENCE ONLY

KEY	DESCRIPTION
A	Concrete Curb per Civil Engineer's Drawings.
B	Parking Striping per Civil Engineer's Drawings.
C	Cross Walk Striping per Civil Engineer's Drawings.
D	Vehicular Paving per Civil Engineer's Drawings.
E	Security Fence and Gate at Mechanical Yard location per Architect's Drawings.
F	Shade Canopy Structure with Columns per Architect's Drawings.
G	Handicap Access Ramp per Civil Engineer's Drawings.
H	Detectible Warning Surface per Civil Engineer's Drawings.
I	Vertical Shade Screen Structure per Architect's Drawings.
J	Curb cuts and rip-rap energy dissipation per Civil Engineer's Drawings.
K	Trash Enclosure per Civil Engineer's Drawings.
L	Sidewalk underdrain with steel sheet cover per Civil Engineer's Drawings. Concrete edges shall be Davis Color, Outback 6771 with smooth troweled finish.

GRADING & DRAINAGE NOTES

A. CROSS SLOPE OF SIDEWALK TO BE A MAX. OF 2%.

B. SLOPE ALL HARDSCAPE TO ACHIEVE POSITIVE DRAINAGE AWAY FROM BUILDING.

C. VERIFY GRADES WITH CIVIL ENGINEER'S SHEETS.

D. CONNECT LANDSCAPE DRAINS TO STORM DRAIN SYSTEM AS INDICATED ON CIVIL ENGINEER'S DRAWINGS.

SEE SHEET L-04 AND L-05 FOR HARDSCAPE LEGENDS
SEE SHEET L-04 FOR COLOR AND FINISH SCHDEULE
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SEE BOOK SPECIFICATIONS FOR HARDSCAPE SPECIFICATIONS

L-05

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RONALD S. TESHIMA 02/01/24 DATE

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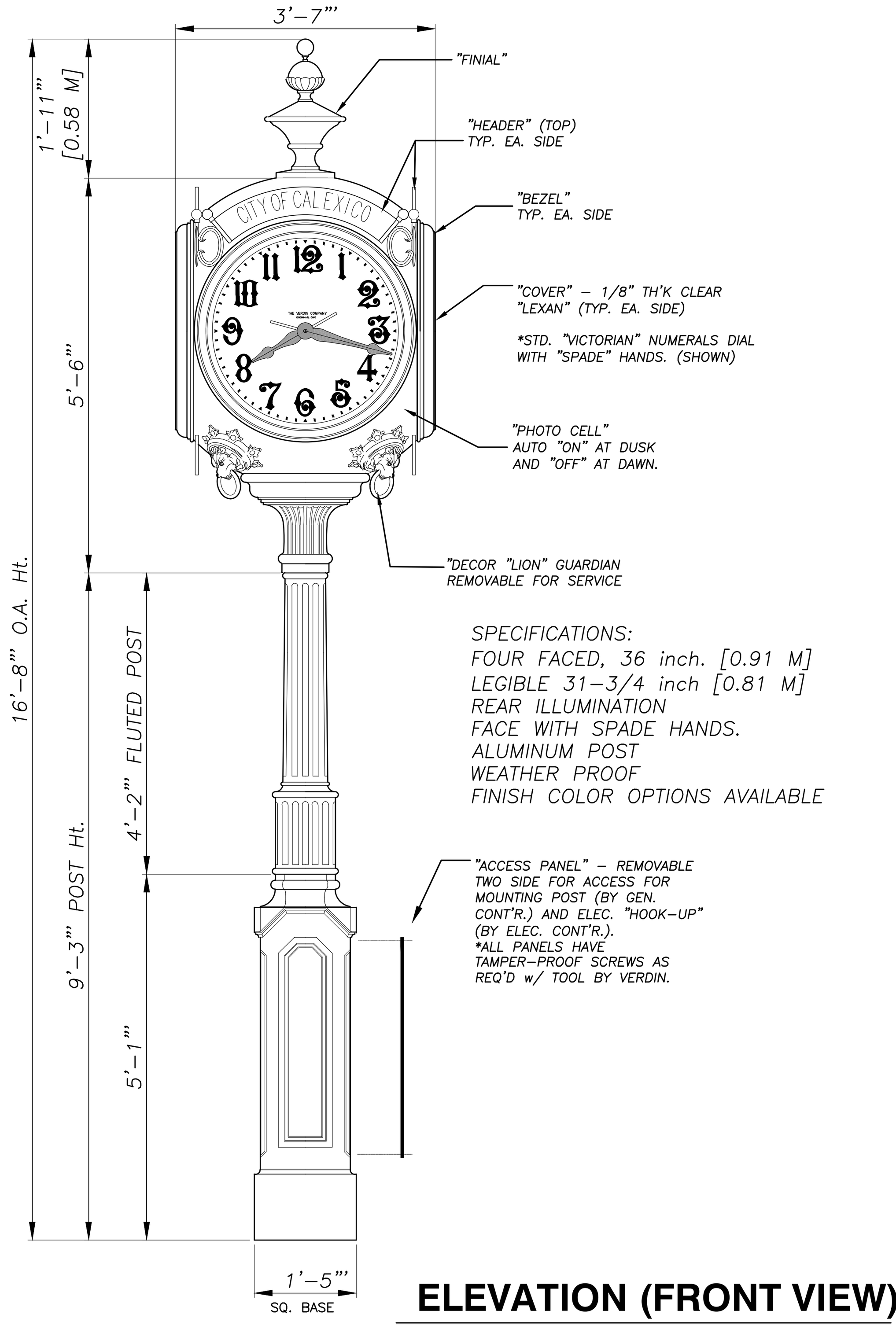
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HARDSCAPE NOTES AND LEGEND

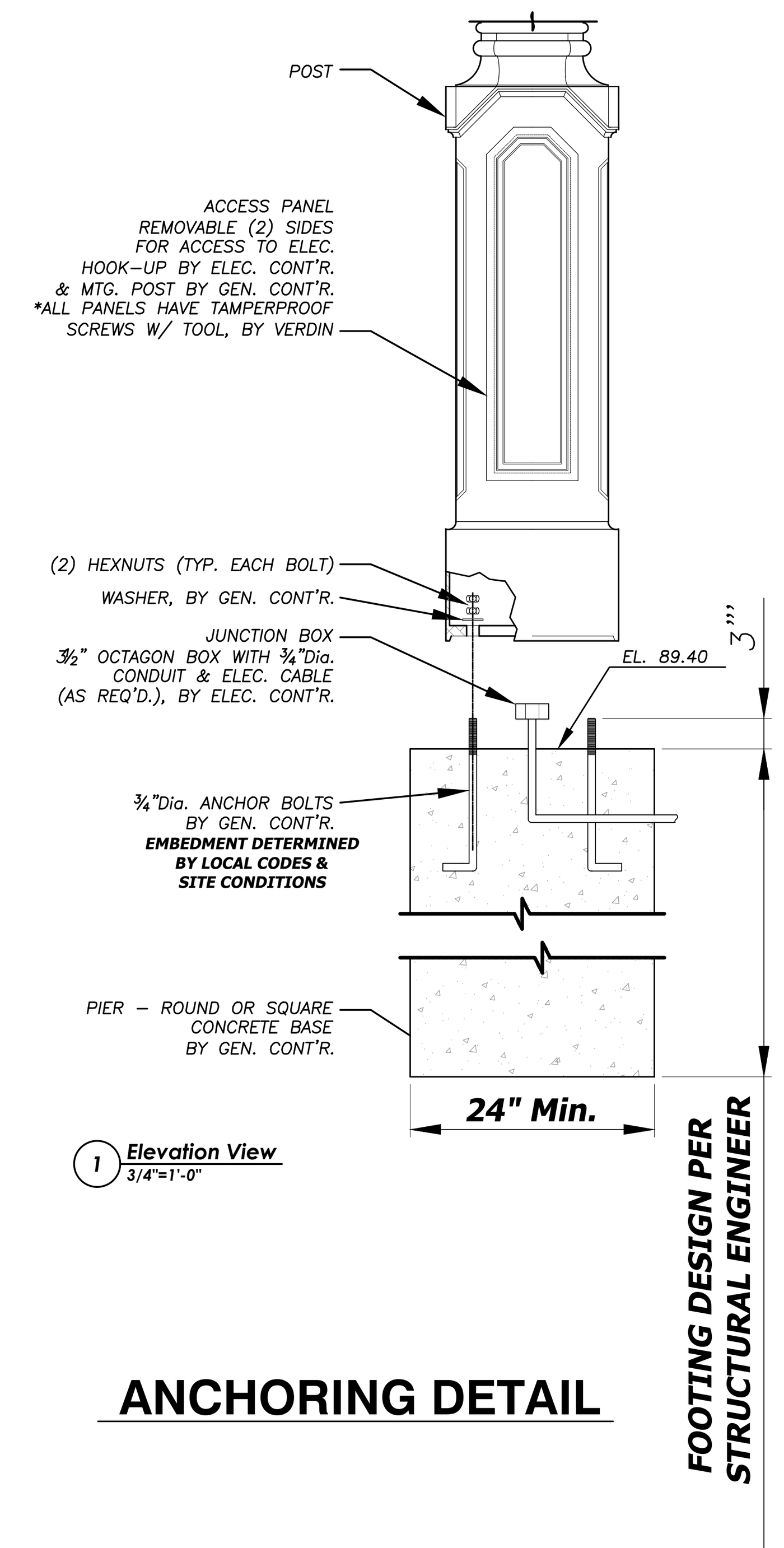
SHEET: 62 OF 145

BID DELIVERABLE

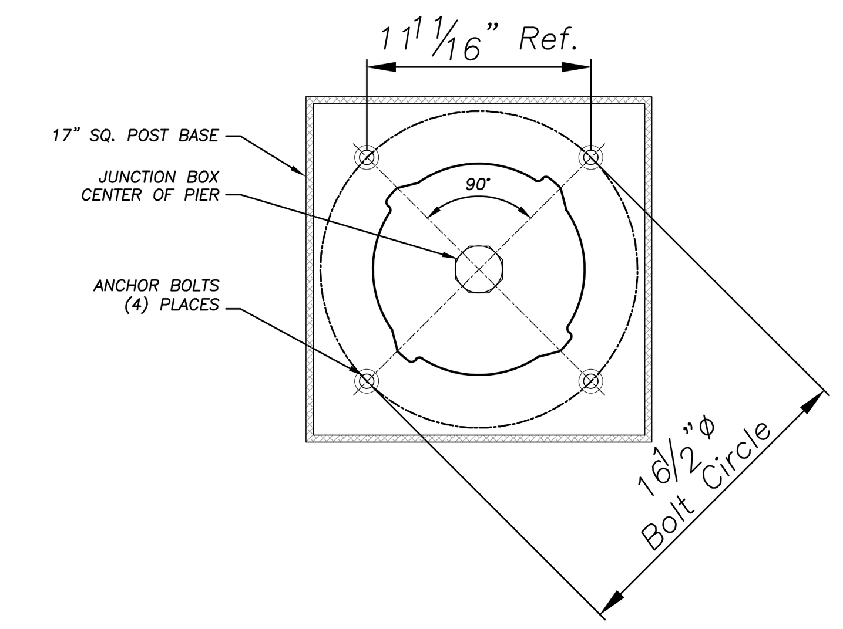


SPECIFICATIONS:
FOUR FACED, 36 inch. [0.91 M]
LEGIBLE 31-3/4 inch [0.81 M]
REAR ILLUMINATION
FACE WITH SPADE HANDS.
ALUMINUM POST
WEATHER PROOF
FINISH COLOR OPTIONS AVAILABLE

ELEVATION (FRONT VIEW)

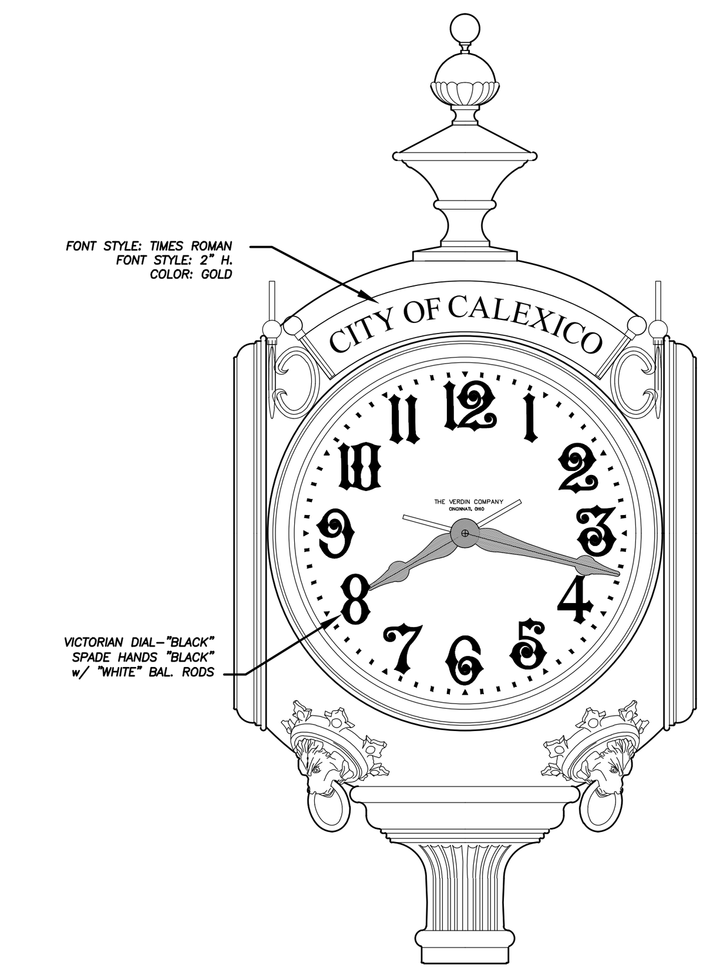


1 Elevation View
3/4"=1'-0"



ANCHORING DETAIL

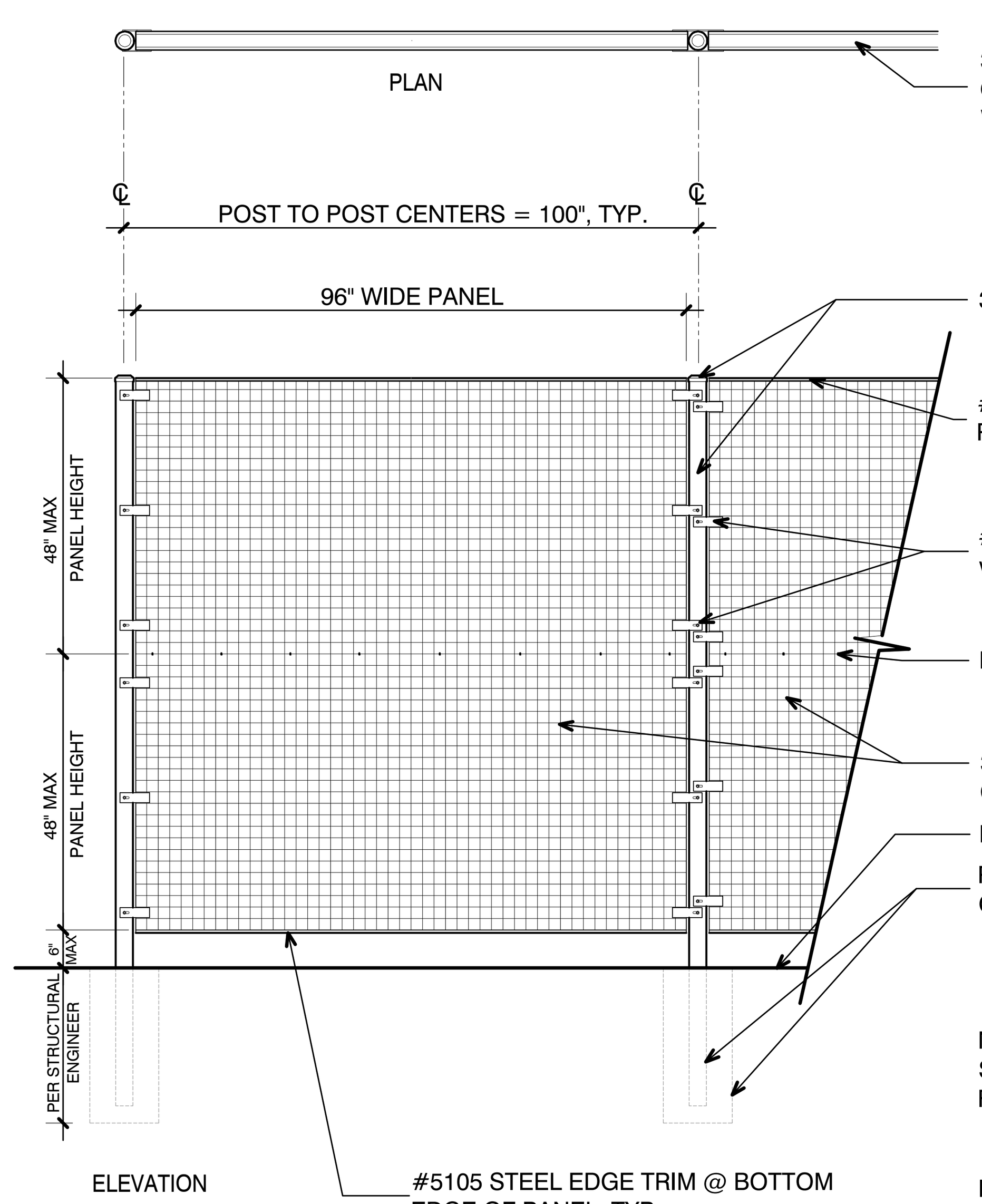
NOTE:
1. AVAILABLE FROM THE VERDIN COMPANY, PHONE 512-247-2907 OR 800-543-0488
2. DETAILS AS PROVIDED BY MANUFACTURER.
3. INSTALLATION AND FOOTING PER MANUFACTURER'S SPECIFICATIONS.
4. COLOR SHALL BE BLACK WITH "VICTORIAN" NUMERALS DIAL.
   CLOCK SHALL HAVE "CITY OF CALEXICO" TOP HEADER.



VERDIN DESIGN GROUP
Verdin Clock Company
2021 Riverside Dr.
Cincinnati, Ohio 45202
Ph.: (513) 559-3940
1 800 217-2256
Fax: (513) 221-8726

H1 STREET POST CLOCK (*4-FACE, MODEL 4MST HOWARD REPLICA/SETH THOMAS)*

NOT TO SCALE



3" THICK GREENSCREEN PANEL. GREENSCREEN SHALL BE POWDER COATED WITH MATTE TEXTURE GREEN COLOR (TYP).

3" SQUARE STEEL TUBE w/ POST CAP, TYP.

#5105 STEEL EDGE TRIM @ TOP EDGE OF PANEL, TYP

#5133X SNAP CLIPS MOUNTED w/ STAINLESS STEEL TEK SCREW, TYP.

FLEX "C" RINGS @PANEL TO PANEL SEAM @12" O.C.

3" THICK GREENSCREEN PANEL. GREENSCREEN SHALL BE POWDER COATED WITH MATTE TEXTURE GREEN COLOR (TYP).

FINISH GRADE

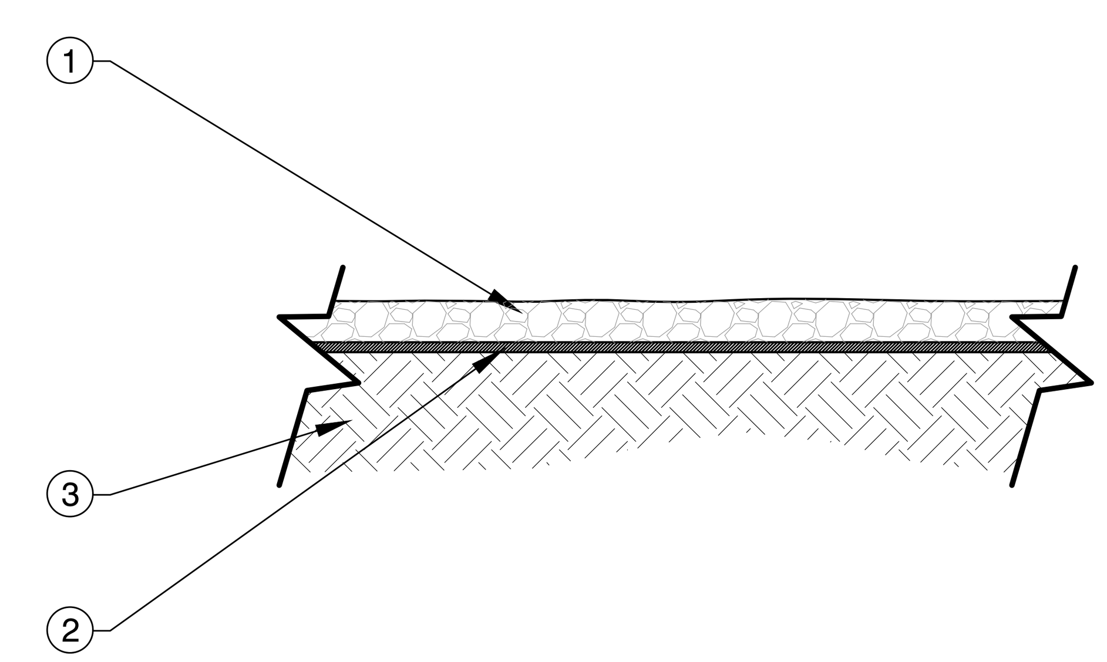
POST IMBED LENGTH & FOOTING SIZE SHOULD BE VERIFIED BASED ON OVER- ALL HEIGHT, WIND LOADS & SOIL CONDITIONS, TYP.

NOTE: SPECIFIC ENGINEERING MAY BE REQUIRED BASED ON SITE SPECIFIC SOIL CONDITIONS, LOCAL WIND LOADS & VERTICAL HEIGHT OF FENCE / SCREEN.

#5105 STEEL EDGE TRIM @ BOTTOM EDGE OF PANEL, TYP

NOTE: VERIFY PANEL SPAN + CLIP SPACING FOR ALL ROOF- TOP INSTALLATIONS AND ALL INSTALLATIONS 20' ABOVE GRADE.

NOTE:
1. CONTACT LORI LUMSDEN 310-837-0526 or 800-450-3494.
2. DETAIL AS PROVIDED BY MANUFACTURER.
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



1. DECOMPOSED GRANITE OR CRUSHED ROCK PER PLAN.
2. WATER PERMEABLE WEED BARRIER FABRIC SHALL BE DEWITT WEED BARRIER PRO IN BROWN COLOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS WITH MINIMUM OF 3" OVERLAP AT STEAMS, AND STAKED AT 4' O.C. WEED BARRIER FABRIC AS AVAILABLE FROM VILLA LANDSCAPE PRODUCTS, PHONE: (800) 654-4067. ALLOW 14 DAYS LEAD TIME WHEN ORDERING.
3. UNDISTURBED NATIVE SOIL.

H2 GREENSCREEN

NOT TO SCALE

H3 DECOMPOSED GRANITE OR CRUSHED ROCK WITH WEED BARRIER FABRIC DETAIL

NOT TO SCALE

L-06

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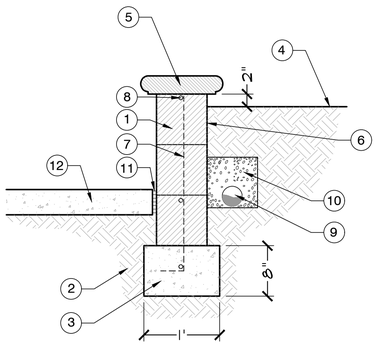
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: HARDSCAPE DETAILS

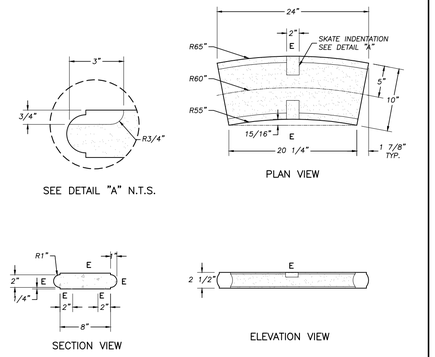
SHEET: 63 OF 145

BID DELIVERABLE



1. 8"X8"X8" SPLIT-FACE BLOCK SHALL BE LA PAZ COLOR AS AVAILABLE FROM RCP BLOCK & BRICK, INC.
2. 95% COMPACTED SUB-GRADE.
3. CONCRETE FOOTING WITH #4 BAR CONTINUOUS.
4. FINISH GRADE.
5. PRE-CAST CONCRETE CAP SHALL BE PRODUCT NUMBER: Q-WC-ANACAPA-12 WITH CUSTOM 5' RADIUS AS MANUFACTURED BY QCP. CAP SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH AND ANTI-GRAFFITI PERMASHIELD 5400 SEALER. ALL CAPS SHALL HAVE SKATE INDENTATIONS.
6. PROVIDE WATER PROOFING BEHIND WALL.
7. #4 BAR VERTICAL @ 24" O.C. SOLID GROUT AT CELLS.
8. #4 BAR HORIZ. @ 16" O.C. BOND BEAM SOLID GROUT.
9. 4" DIA. PREF. PIPE IN FILTER FABRIC.
10. GRAVEL BACKFILL - 8"X8" WASHED GRAVEL.
11. EXPANSION JOINT BY OTHERS.
12. CONCRETE SLAB.

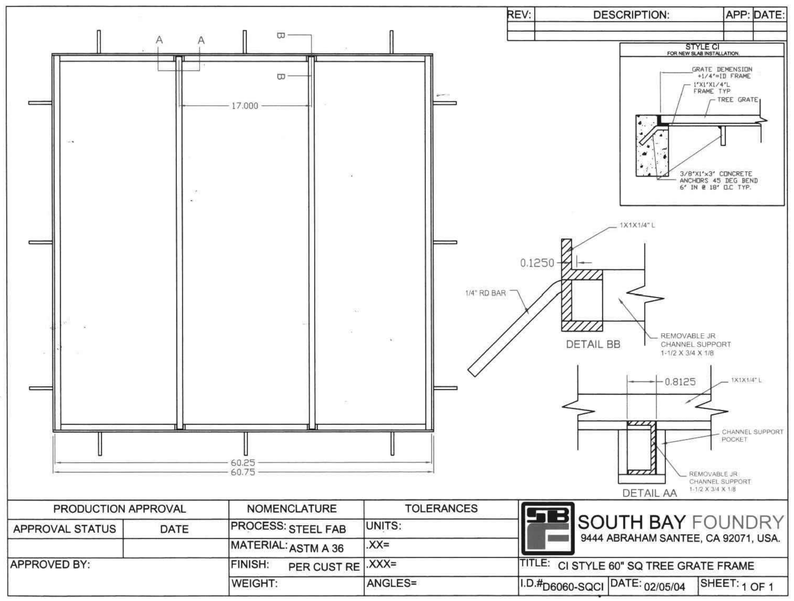
NOTES:
1. FOR ALL CUSTOM RADIUS CAPS ALLOW ENOUGH LEAD TIME TO MEET THE CONSTRUCTION SCHEDULE.
2. PROVIDE ADEQUATE DRAINAGE IN ALL RAISED PLANTERS. CONNECT TO SITE DRAINAGE SYSTEM PER CIVIL ENGINEER'S PLAN.



PRE-CAST CONCRETE CAP DETAIL

H4 RAISED PLANTER WITH SEATWALL

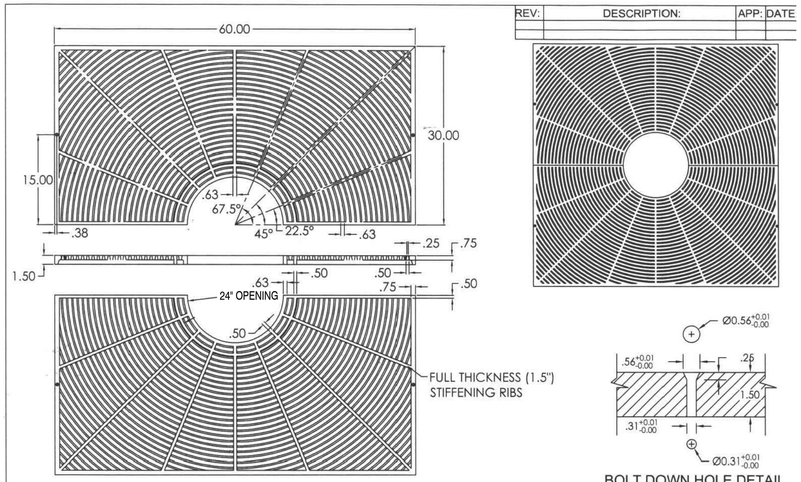
NOT TO SCALE



REV:	DESCRIPTION:	APP:	DATE:

PRODUCTION APPROVAL		NOMENCLATURE	TOLERANCES	
APPROVAL STATUS	DATE	PROCESS: STEEL FAB	UNITS:	SOUTH BAY FOUNDRY 9444 ABRAHAM SANTEE, CA 92071, USA.
		MATERIAL: ASTM A 36	.XX=	
APPROVED BY:		FINISH: PER CUST RE	.XXX=	TITLE: CI STYLE 60" SQ TREE GRATE FRAME
		WEIGHT:	ANGLES=	I.D.#D6060-SQCI DATE: 02/05/04 SHEET: 1 OF 1

TREE FRAME NOT TO SCALE



REV:	DESCRIPTION:	APP:	DATE

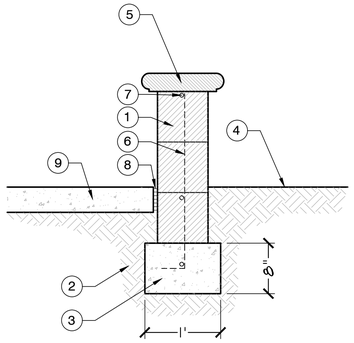
PRODUCTION APPROVAL		NOMENCLATURE	TOLERANCES	
APPROVAL STATUS	DATE	PROCESS: ELECTRIC FURNACE NO BAKE CAST	UNITS: INCHES	South Bay Foundry, Inc. 9444 ABRAHAM WAY / SANTEE / CA. / 92071 PH: 619 956-2780 FAX: 619 956-2788
		MATERIAL: DI 80-55-06	.XX= 0.06	
APPROVED BY:		FINISH:	.XXX= 0.063	TITLE: SP STYLE 60" TREE GRATE 1.5 THICK 1/4 INCH GAP 16" - 19.5" TREE WELL
		WEIGHT: XXX LBS / PC (EST)	ANGLES= ±1°	I.D.# D0060-1.5SQ16 DATE: 2/7/06 SHEET: 1 OF 1

TREE GRATE NOT TO SCALE

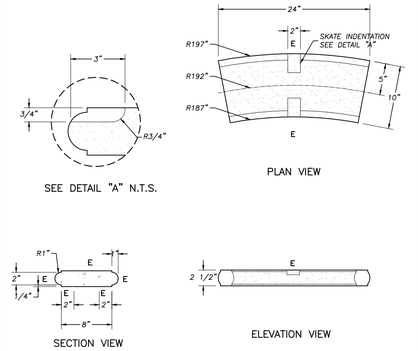
H5 SEATWALL

NOT TO SCALE

1. 8"X8"X8" SPLIT-FACE BLOCK SHALL BE LA PAZ COLOR AS AVAILABLE FROM RCP BLOCK & BRICK, INC.
2. 95% COMPACTED SUB-GRADE.
3. CONCRETE FOOTING WITH #4 BAR CONTINUOUS.
4. FINISH GRADE.
5. PRE-CAST CONCRETE CAP SHALL BE PRODUCT NUMBER: Q-WC-ANACAPA-12 WITH CUSTOM 16' RADIUS AS MANUFACTURED BY QCP. CAP SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH AND ANTI-GRAFFITI PERMASHIELD 5400 SEALER. ALL CAPS SHALL HAVE SKATE INDENTATIONS.
6. #4 BAR VERTICAL @ 24" O.C. SOLID GROUT AT CELLS.
7. #4 BAR HORIZ. @ 16" O.C. BOND BEAM SOLID GROUT.
8. EXPANSION JOINT BY OTHERS.
9. CONCRETE SLAB.



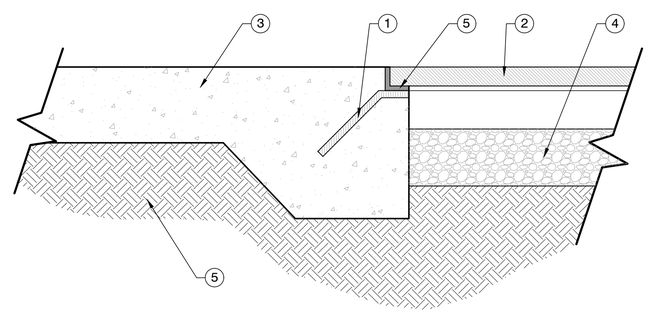
NOTE:
1. FOR ALL CUSTOM RADIUS CAPS ALLOW ENOUGH LEAD TIME TO MEET THE CONSTRUCTION SCHEDULE.



PRE-CAST CONCRETE CAP DETAIL

H6 TREE GRATE AND FRAME

1. 3/8"X 1"X 3" CONCRETE ANCHORS, 45 DEG. BEND, 6" IN. 18" O.C. (TYP).
2. TREE GRATE.
3. CONCRETE SLAB. CONSTRUCTION BY OTHERS.
4. 3" OF PEA GRAVEL.
5. NATURAL SOIL.
6. 1"X 1"X 1/4" FRAME



TREE GRATE AND FRAME (SECTION) SCALE: 3"=1'-0"

NOTE:
1. AVAILABLE FROM SOUTH BAY FOUNDRY. CONTACT AMANDA ANDERSON. PHONE: 619-212-0273 OR 619-956-2780.
2. TREE GRATE COLOR SHALL BE BLACK POWDER COAT.
3. DETAILS AS PROVIDED BY MANUFACTURER.
4. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

L-07

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE • LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 • SAN DIEGO, CA 9213
PH (858) 689-4824 FAX (858) 689-1821
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA No. 6504 02-01-24 STATE OF CALIFORNIA

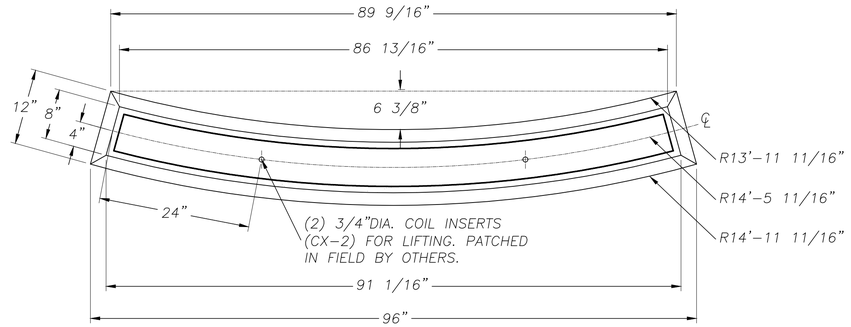
DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

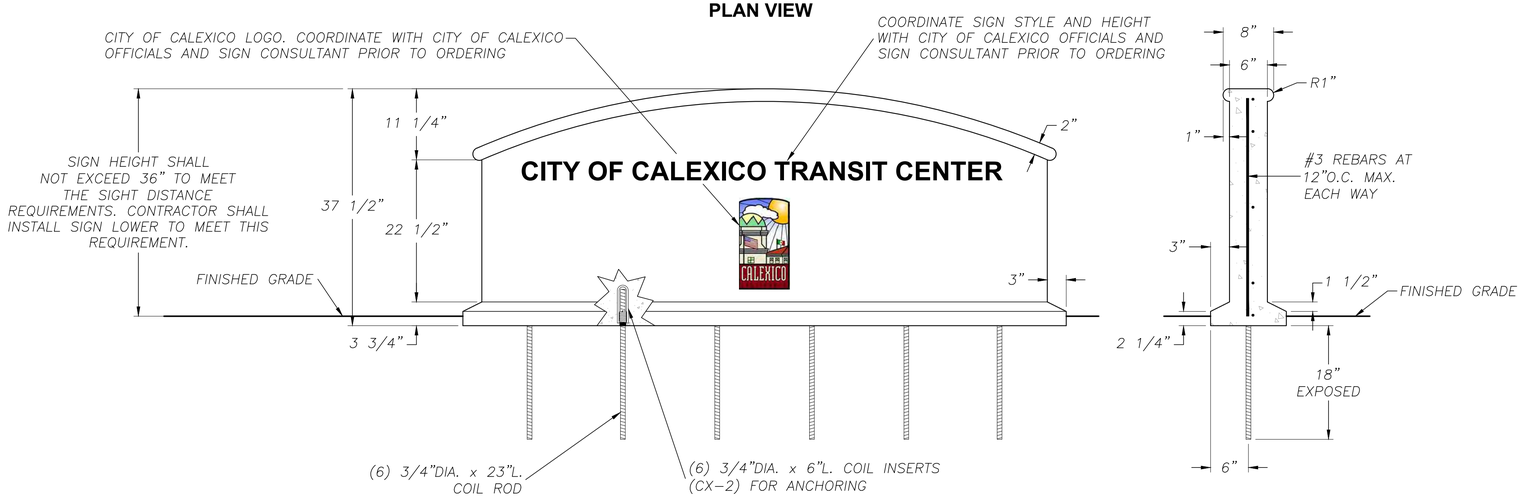
SHEET TITLE:
HARDSCAPE DETAILS

SHEET: 64 OF 145

BID DELIVERABLE

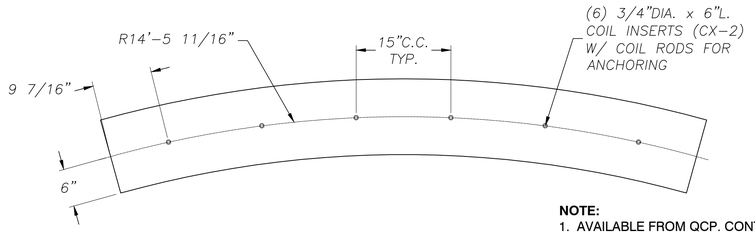


PLAN VIEW



ELEVATION VIEW

SECTION VIEW



BOTTOM VIEW

NOTE:
1. AVAILABLE FROM QCP. CONTACT SCOTT ULRICH PHONE (866) 763-3434
2. SIGNAGE MONUMENT SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH AND ANTI-GRAFFITI PERMASHIELD 5400 SEALER.
3. LETTER HEIGHT AND FONT SHALL BE COORDINATED WITH THE CITY AND SIGNAGE CONSULTANT PRIOR TO ORDERING.
4. CITY OF CALEXICO LOGO TO BE PROVIDED BY THE CITY.
5. DETAILS AS PROVIDED BY MANUFACTURER.
6. INSTALL PER MANUFACTURER'S SPECIFICATIONS

H7 SIGNAGE MONUMENT

NOT TO SCALE

- INSTALLATION IS REQUIRED BY OTHERS.
- ALL EDGES TO BE EASED.
- MANUFACTURING TOLERANCE ±1/4".
- PRODUCT: QR-CAL2436W-HOVER19
- QUANTITY:
- CONCRETE COLOR: HARVEST
- CONCRETE TEXTURE: CRAFTSMAN'S ETCH
- SEALER: ANTI-GRAFFITI PERMASHIELD 5400 SEALER
- LID COLOR: BLACK
- LID MATERIAL: STEEL
- STD. 2"DIA. DRAIN HOLE
- STD. COLOR & TEXTURE OPTIONS

APROX. WT.520 Lbs.
(CUSTOMER TO OFFLOAD IF OVER 6000 Lbs.)

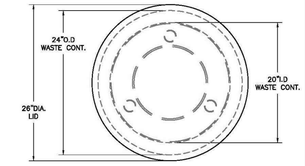
Authorized Signature _____ Date

By signing above or stamping this drawing "approved" or "no exception taken" authorization is given to Quick Crete to produce this drawing as shown within a 1/4" tolerance.

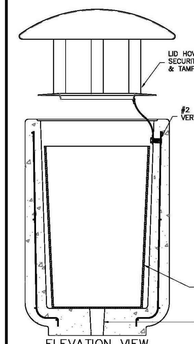
E = EXPOSED FINISHED SURFACE

LID COLORS
PLEASE SPECIFY YOUR CHOICE BY CHECKING BELOW

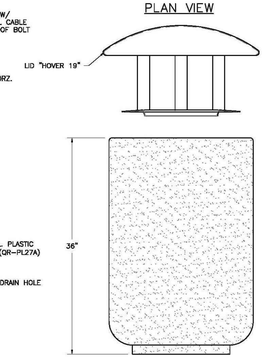
STANDARD	PREMIUM ADD 10%
○ BLACK	○ RED
○ GRAY	○ BURGUNDY
○ BROWN	○ GREEN
○ BLUE	○ IVORY



PLAN VIEW



ELEVATION VIEW



ELEVATION VIEW

HARDWARE LIST	
QTY	TYPE
	SECURITY CABLE & BOLT
	(LID-HOVER19) 19 5/8"O.D. x 12"I.D. ROUND HOVER LID
	(26PL27A) 17"TOP x 27"HT. RND. 23 GAL LINER

QCP Quick Crete Products Corp. (951) 737-6240 WWW.QUICKCRETE.COM	PLAN TYPE:	CONSTRUCTION PLAN	DATE:	FILE NO. / SHEET 1
	PRODUCT:	CALIFORNIA WASTE CONT. (QR-CAL2436W-HOVER19)	SCALE:	DRAWN BY: / of 1
	PROJECT (HARD)		PC. NO.	QC ITEM NO.

NOTE:
1. AVAILABLE FROM QCP. CONTACT SCOTT ULRICH PHONE (866) 763-3434.
2. TRASH RECEPTACLE SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH AND ANTI-GRAFFITI PERMASHIELD 5400 SEALER.
3. DETAIL AS PROVIDED BY MANUFACTURER.
4. INSTALL PER MANUFACTURERS SPECIFICATIONS.

H8 TRASH RECEPTACLE

NOT TO SCALE

L-08

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA. 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH: (858) 693-1824 FAX: (858) 693-1182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA 2-29-24 STATE OF CALIFORNIA

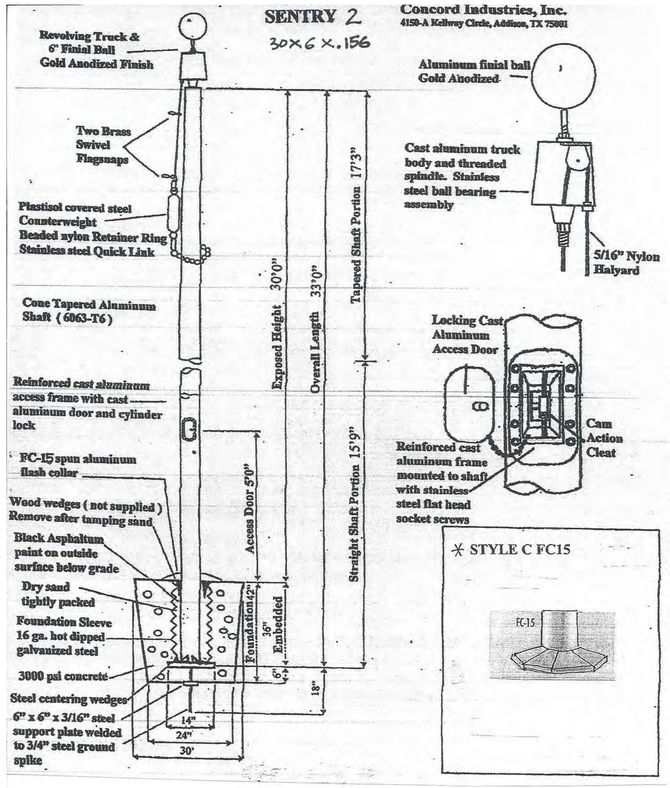
DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HARDSCAPE DETAILS

SHEET: 65 OF 145

BID DELIVERABLE



NOTES:
1. FLAGPOLE SHALL BE SENTRY 2 (30X6X.156), 30 FEET HIGH WITH SATIN FINISH AS
MANUFACTURED BY:
CONCORD INDUSTRIES, INC
4150-A KELLWAY CIRCLE ADDISON, TEXAS 75881

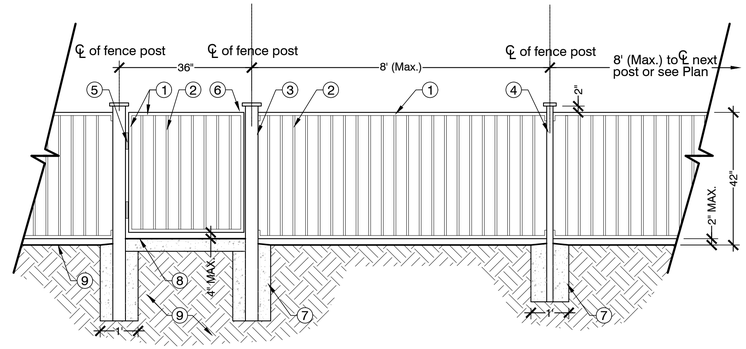
AVAILABLE FROM:
PACIFIC FLAG POLE SERVICE
CONTACT NICK DE GRAAF
PHONE: 858-692-2555

2. INSTALLATION AND FOOTING SHALL BE PER MANUFACTURER RECOMMENDATIONS.

NOTE: THIS DETAIL SHOWS 30' HIGH FLAG POLE ONLY. REFER TO HARDSCAPE LEGEND FOR 40' HIGH FLAG POLE MODEL INFORMATION.

H9 FLAG POLE

NOT TO SCALE



1. 1-1/2" x 1-1/2" TUBULAR STEEL TOP AND BOTTOM RAILS, AND FRAME FOR GATE.
2. 5/8" SQUARE PICKETS @ 4" O.C.
3. 4" SQ. TUBULAR STEEL FOR CORNER, TERMINAL AND BOTH SIDES OF GATE WITH CAPS.
4. 2" SQ. TUBULAR STEEL LINE POSTS WITH CAPS.
5. PIVOT HINGES WITH SELF-CLOSING MECHANISM.
6. LATCH WITH SELF-LATCHING MECHANISM. (BEHIND)
7. CONCRETE FOOTING - SLOPE TOP 1% FOR DRAINAGE: 18" DEEP FOR 2" LINE POSTS AND 24" DEEP FOR 4" CORNER AND GATE POSTS.
8. FINISH SURFACE.
9. FINISH GRADE
10. 95% COMPACTED SUBGRADE.

NOTES:
1. ALL METAL SHALL BE TREATED WITH TWO (2) COATS OF "RUST-OLEUM" (OR EQUIVALENT) FLAT BLACK PRIMER FACTORY APPLIED.
2. WROUGHT IRON FENCE SHALL BE INSTALLED WITH A ONE-INCH MINIMUM SEPARATION FROM ANY BUILDING STRUCTURE.
3. WROUGHT IRON FENCE SHALL BE APPROVED IN THE FIELD PRIOR TO INSTALLATION.
4. ALL CONNECTIONS SHALL BE WELDED, NOT BOLTED.
5. CONTRACTOR TO COORDINATE ALL GATE HARDWARE WITH ICTC PRIOR TO INSTALLATION.

H10 WROUGHT IRON FENCE AND GATES

NOT TO SCALE

L-09

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH: (858) 689-0824 FAX: (858) 695-1182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA C-5677 Date STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HARDSCAPE DETAILS

SHEET: 66 OF 145

BID DELIVERABLE

PRODUCT: Q-CIRQ-BR

WEIGHT: 96 lbs
(CUSTOMER TO OPTLOAD BY OVER 8000 Lbs.)

QUANTITY: _____

CONCRETE COLOR:
- ○ QUAIL HILL RED
- ○ NATURAL
- ○ MISSION WHITE
- ○ LATTE
- ● HARVEST
- ○ FRENCH GREY
- ○ BUNGALOW
- ○ ADOBE TAUPE
- ○ CUSTOM COLOR

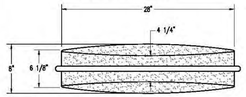
CONCRETE TEXTURE:
- ● CRAFTSMANS ETCH
- ○ ESTATA

SEALER: STANDARD SEALER

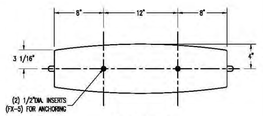
Authorized Signature _____ Date

By signing above or attaching this drawing "approved" or "no exception taken" authorization to give to QCP to produce this drawing as shown within a 1/4" tolerance.

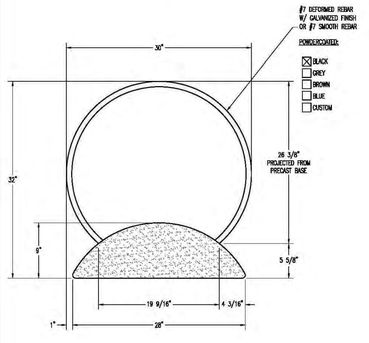
GENERAL PRODUCT NOTES:
E = EXPOSED FINISHED SURFACE
INSTALLATION IS REQUIRED BY OTHERS.
ALL EDGES TO BE EASED.
MANUFACTURING TOLERANCE ±1/4".



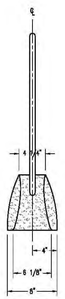
PLAN VIEW



BOTTOM VIEW



ELEVATION VIEW



SIDE VIEW

PLAN TYPE		DATE	FILENO. 081_Q_CIRQ_BR	SHEET
PRODUCT	Q-CIRQ-BR | BIKE RACK | CIRQ	SCALE	DRAWN BY:	QY
PROJECT NAME	-	PC NO. -	QC ITEM NO. -	

www.qcp-corp.com

NOTE:
1. AVAILABLE FROM QCP. CONTACT SCOTT ULRICH PHONE (866) 763-3434.
2. BIKE RACK SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH.
3. DETAIL AS PROVIDED BY MANUFACTURER.
4. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
5. BOLT DOWN TO CONCRETE SLAB.

H11 BIKE RACK

NOT TO SCALE

PRODUCT: Q1-VIC84B(MOD)

WEIGHT: 1,563 lbs
(CUSTOMER TO OPTLOAD IF OVER 8000 Lbs.)

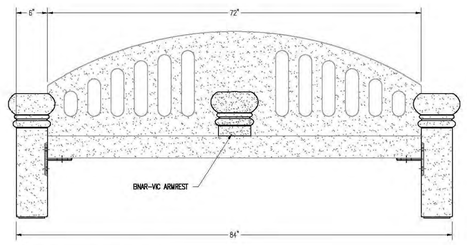
QUANTITY:

CONCRETE COLOR:
- ○ QUAIL HILL RED
- ○ NATURAL
- ○ MISSION WHITE
- ○ LATTE
- ● HARVEST
- ○ FRENCH GREY
- ○ BUNGALOW
- ○ ADOBE TAUPE
- ○ CUSTOM COLOR

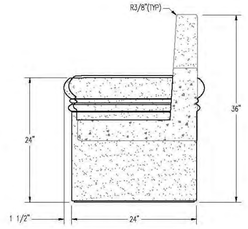
CONCRETE TEXTURE:
- ● CRAFTSMANS ETCH
- ○ STRATA

SEALER: PERMASHIELD 4200 SEALER

GENERAL PRODUCT NOTES:
E = EXPOSED FINISHED SURFACE
INSTALLATION IS REQUIRED BY OTHERS.
ALL EDGES TO BE EASED
MANUFACTURING TOLERANCE ±1/4"



ELEVATION VIEW



SECTION VIEW

HARDWARE LIST

QTY	TYPE
1	(ADH-SIKAFLX1A) SIKAFLEX 1A TUBE-LIMESTONE
1	(BNAR-VIC) SEE SHEET 2

PLAN TYPE	CONSTRUCTION PLAN	DATE 5/11/21	FILENO. 151294-1	SHEET 1
PRODUCT	Q1-VIC84B(MOD) BNAR-VIC ARMREST | BENCH | VICTORIA	SCALE 3/4" = 1"	DRAWN BY R.D.	QY
PROJECT NAME	CALEXICO TRANSIT CENTER	PC NO CT1	QC ITEM NO. 1	4

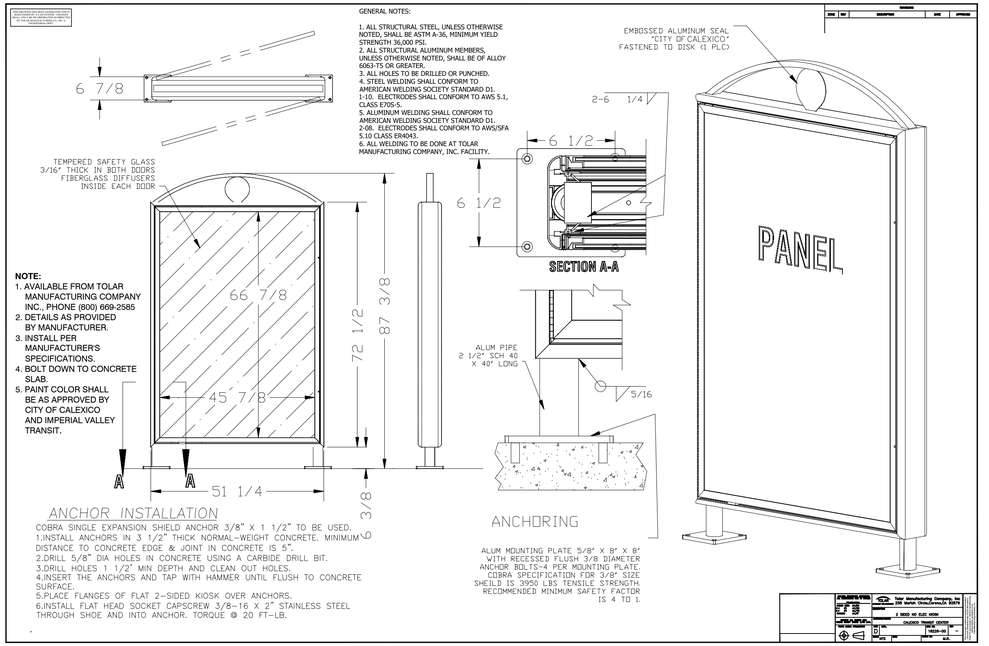
www.qcp-corp.com

NOTE:
1. AVAILABLE FROM QCP. CONTACT SCOTT ULRICH PHONE (866) 763-3434.
2.TRASH RECEPTACLE SHALL BE HARVEST COLOR WITH CRAFTSMANS ETCH FINISH AND ANTI-GRAFFITI PERMASHIELD 5400 SEALER.
3. DETAIL AS PROVIDED BY MANUFACTURER.
4. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
5. ATTACH TO CONCRETE SLAB.

H12 BENCH

NOT TO SCALE

GENERAL NOTES:
1. ALL STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL BE ASTM A-36, MINIMUM YIELD STRENGTH 36,000 PSI.
2. ALL STRUCTURAL ALUMINUM MEMBERS, UNLESS OTHERWISE NOTED, SHALL BE OF ALLOY 6063-T5 OR GREATER.
3. ALL HOLES TO BE DRILLED OR PUNCHED.
4. STEEL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 1-10. ELECTRODES SHALL CONFORM TO AWS 5.1, CLASS E70S-5.
5. ALUMINUM WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STANDARD D1. 2-08. ELECTRODES SHALL CONFORM TO AWS/SFA 5.10 CLASS ER4043.
6. ALL WELDING TO BE DONE AT TOLAR MANUFACTURING COMPANY, INC. FACILITY.



NOTE:
1. AVAILABLE FROM TOLAR MANUFACTURING COMPANY INC., PHONE (800) 669-2585
2. DETAILS AS PROVIDED BY MANUFACTURER.
3. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. BOLT DOWN TO CONCRETE SLAB.
5. PAINT COLOR SHALL BE AS APPROVED BY CITY OF CALEXICO AND IMPERIAL VALLEY TRANSIT.

ANCHOR INSTALLATION

COBRA SINGLE EXPANSION SHIELD ANCHOR 3/8" X 1 1/2" TO BE USED.
1.INSTALL ANCHORS IN 3 1/2" THICK NORMAL-WEIGHT CONCRETE. MINIMUM DISTANCE TO CONCRETE EDGE & JOINT IN CONCRETE IS 5".
2.DRILL 5/8" DIA HOLES IN CONCRETE USING A CARBIDE DRILL BIT.
3.DRILL HOLES 1 1/2" MIN DEPTH AND CLEAN OUT HOLES.
4.INSERT THE ANCHORS AND TAP WITH HAMMER UNTIL FLUSH TO CONCRETE SURFACE.
5.PLACE FLANGES OF FLAT 2-SIDED KIOSK OVER ANCHORS.
6.INSTALL FLAT HEAD SOCKET CAPSCREW 3/8-16 X 2" STAINLESS STEEL THROUGH SHOE AND INTO ANCHOR. TORQUE @ 20 FT-LB.

H13 INFORMATION KIOSK

NOT TO SCALE

L-10

NO.	BY:	REVISION COMMENTS

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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
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9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH (858) 693-1824 FAX (858) 693-1825

TDG JOB NO. 18-12

Ronald S. Teshima 02/01/24
RONALD S. TESHIMA DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA No. 5054 Exp. 2-1-24 STATE OF CALIFORNIA

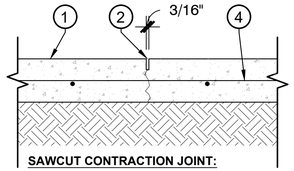
DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

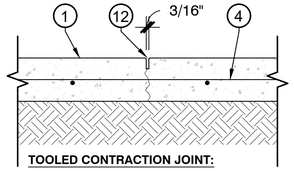
SHEET TITLE:
HARDSCAPE DETAILS

SHEET: 67 OF 145

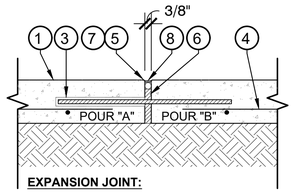
BID DELIVERABLE



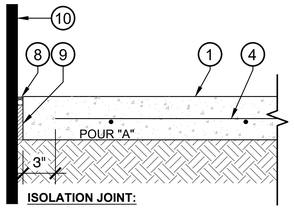
SAWCUT CONTRACTION JOINT:



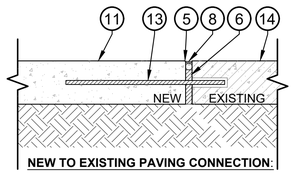
TOOLED CONTRACTION JOINT:



EXPANSION JOINT:



ISOLATION JOINT:



NEW TO EXISTING PAVING CONNECTION:

LEGEND:

1. CONCRETE PAVING - SEE HARDSCAPE PLAN FOR COLOR AND FINISH.
2. 3/16" WIDE SAWCUT CONTRACTION JOINT - CUT TO 1/4 DEPTH OF SLAB. PROVIDE TIGHT 1/4"x1/2" DEEP TOOLED PRE-SCORE JOINT TO PAVING BEFORE SAWCUTTING.
3. SPEED DOWEL AT 18" O.C. ALIGN ALL DOWEL.
4. REBAR - SEE DETAIL CONCRETE PAVING DETAIL, THIS SHEET.
5. 1/4" RADIUS.
6. 3/8" FIBER EXPANSION MATERIAL.
7. 1/2" DEEP VOID FOR CAULKING.
8. 2-PART POLYURETHANE SEALANT. APPLY SILICA #30 SAND TO SURFACE OF SEALANT WHILE STILL TACKY. APPLY AFTER REMOVAL OF PVC REMOVABLE JOINT CAP IF USED.
9. 3/8 "THICK POLYFOAM OR FIBER EXPANSION MATERIAL - SPRAY GLUE TO SIDE OF POUR "A".
10. FIXED VERTICAL EDGE, I.E. WALL, COLUMN, STEPS, OR CURB.
11. NEW CONCRETE PAVING - FLUSH WITH EXISTING CONCRETE PAVING.
12. CONTRACTION JOINT WITH TOOLED 1/4" RADIUS AT EDGES AND 1/4 DEPTH OF SLAB. PROVIDE TIGHT 1/4"x1/2" DEEP TOOLED PRE-SCORE JOINT TO PAVING BEFORE SAWCUTTING.
13. #4x18" LONG SMOOTH STEEL DOWELS AT 24" O.C. DRILLED AND EPOXIED WITH SIMPSON "SET 22" EPOXY INTO EXISTING CONCRETE PAVING - MIN. 3" EMBED. STEEL DOWELS TO BE SAWCUT TO LENGTH, NOT SHEARED.
14. EXISTING CONCRETE PAVING.

NOTES:

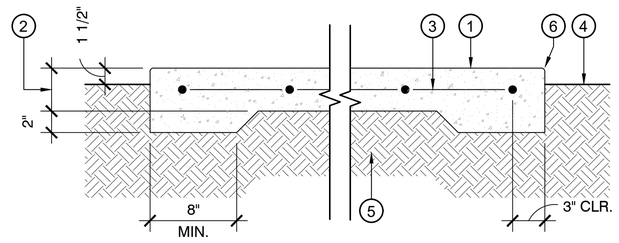
A. ENSURE THAT NO CONCRETE SLURRY STAINS BOND WITH EXISTING PAVING - USE PIERI "FACE-OFF", OR SIMILAR PRODUCT, TO ELIMINATE SLURRY STAINS ON ADJACENT SURFACES.

B. PROVIDE EXPANSION JOINT EVERY 20' O.C. MAX. OR AS SHOWN ON THE PLAN.

C. PROVIDE EXPANSION JOINT WHEREVER NEW CONCRETE ABUTS CURBS, WALL, COLUMNS OR LIGHT POLES.

D. FIELD ADJUSTMENTS TO BE REVIEWED BY CONCRETE CONTRACTOR AND VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO CONCRETE POUR.

H14 — **CONCRETE PAVING JOINTS** — NOT TO SCALE



LEGEND:

1. CONCRETE PAVING - SEE HARDSCAPE PLAN FOR COLOR AND FINISH.
2. PAVING THICKNESS:
   PEDESTRIAN: 4" (SEE NOTE 'A' BELOW)
   VEHICULAR: 6" (SEE NOTE 'A' BELOW)
3. REINFORCING AT PAVING:
   PEDESTRIAN PAVING: #3 BARS AT 24" O.C. BOTH WAY, CENTER IN SLAB.
   VEHICULAR PAVING: #4 BARS AT 18" O.C. BOTH WAYS, CENTER IN SLAB
4. FINISH GRADE.
5. 90% COMPACTED SUBGRADE - VERIFY AND COMPLY WITH REQUIREMENTS NOTED IN THE GEOTECHNICAL SOILS REPORT.
6. 1/4" TOOLED RADIUS.

NOTES:

A. PAVING THICKNESS, BASE PREPARATION, AND REINFORCING ARE SHOWN FOR BID PURPOSES ONLY. VERIFY AND COMPLY WITH REQUIREMENTS NOTED IN THE GEOTECHNICAL SOILS REPORT.
B. PROVIDE MOCK-UP (SIZE: 4'X4') FOR CLIENT AND LANDSCAPE ARCHITECT APPROVAL.
C. SEAL EXPOSED PORTIONS OF CONCRETE PAVING AS SPECIFIED ON DRAWINGS.
D. INSTALL EXPANSION JOINTS, SAWCUT CONTRACTION JOINTS AND TOOLED CONTRACTION JOINTS PER PLAN.

H15 — **CONCRETE PAVING** — NOT TO SCALE

L-11

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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
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PH: (858) 693-1824 FAX: (858) 693-1182
TDG JOB NO. 18-12
Ronald S. Teshima 02/01/24
RONALD S. TESHIMA DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · No. 6-5017 · 2-1-24 Date · STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HARDSCAPE DETAILS

SHEET: 68 OF 145

BID DELIVERABLE

IRRIGATION PIPE AND EQUIPMENT LOCATION NOTES

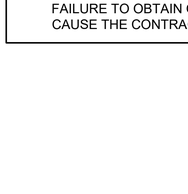
1. ALL IRRIGATION EQUIPMENT, DRIP/SPRINKLERS AND PIPE THAT ARE SHOWN IN PAVING IS FOR DRAWING CLARITY ONLY. ALL EQUIPMENT SHALL BE INSTALLED WITHIN LANDSCAPED AREA. NO IRRIGATION EQUIPMENT SHALL BE LOCATED IN HARDSCAPE.

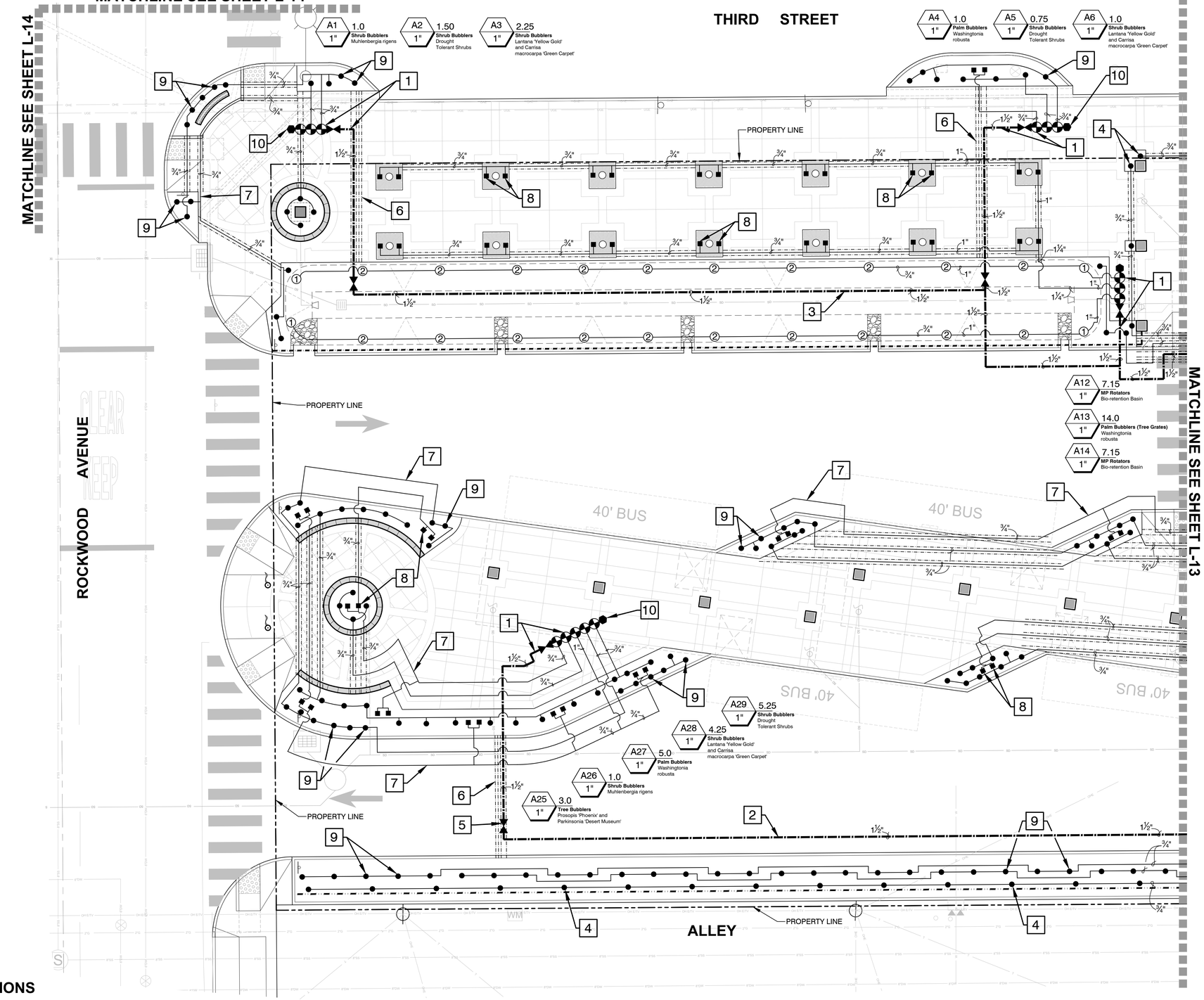
2. MAINLINE AND VALVE LOCATIONS SHOWN ON THIS DRAWING ARE DESIGNED AS DIAGRAMMATIC AND APPROXIMATE. THE LANDSCAPE CONTRACTOR SHALL STAKE ALL IRRIGATION APPURTENANCE LOCATION FOR REVIEW AND APPROVAL. FINAL LOCATION AND EXACT POSITIONING OF ALL IRRIGATION APPURTENANCE SHALL BE DETERMINED BY THE OWNER'S AUTHORIZED REPRESENTATIVE. MINOR MODIFICATIONS OF ALL IRRIGATION APPURTENANCE AS REQUESTED BY THE OWNER SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST. FAILURE TO OBTAIN OWNER'S APPROVAL PRIOR TO THE INSTALLATION SHALL CAUSE THE CONTRACTOR TO MAKE OWNER DIRECTED REVISION AT NO CHARGE.

PRESSURE CALCULATIONS

PROJECT: IMPERIAL TRANSIT CENTER					
LOCATION: THIRD ST. BETWEEN ROCKWOOD AVE. TO HEFFERNAN AVE., CITY OF CALEXICO, CA					
PRESS ZONE / SOURCE ELEV.:					
DATE OF PRESSURE CHECK: 5/20/21 BY: CITY OF CALEXICO					
JOB NO.: 18-12					
CLIENT NO.: 760-592-4494					
WATER AUTHORITY: CITY OF CALEXICO					
CALC. DATE: 6/21/21 BY: MS					
VALVE NO. CHECKED: A12					
PRESS. AT POC: 60 PSI					
POC ELEVATION: HIGHEST HEAD:					
PIPE SECTION	PIPE TYPE	PIPE SIZE	PIPE LENGTH	ACCUM. GPM	LOSS IN PSI
1	SCH. 40	3/4"	40'	1.6	.05
2	SCH. 40	3/4"	40'	4.2	.2
3	SCH. 40	3/4"	40'	5.5	1.3
4	SCH. 40	1"	40'	6.8	.5
5	SCH. 40	1"	10'	7.1	.2
A. TOTAL LATERAL SYSTEM LOSSES					2.2
MAINLINE SYSTEM:					
PIPE SECTION	PIPE TYPE	PIPE SIZE	PIPE LENGTH	ACCUM. GPM	LOSS IN PSI
1	CL. 315	1-1/2"	230'	7.1	0.46
B. TOTAL MAINLINE SYSTEM LOSSES					0.46
MISCELLANEOUS LOSSES:		**SIZE:**			
WATER METER		1"			0.5
BACKFLOW PREVENTER		1-1/4"			10
CONTROL VALVE		1"			2.5
MASTER CONTROL VALVE		1"			2.5
CONTROL VALVE		1"			0.5
C. TOTAL MISCELLANEOUS LOSSES					16.0
D. TOTAL SYSTEM LOSSES (A+B+C)					18.7
E. FITTING LOSSES (15% OF TOTAL LOSSES)					2.8
F. HEAD LOSS / GAIN IN SYSTEM					
G. MINIMUM REQUIRED PRESSURE AT LAST HEAD					30
H. DESIGN PRESSURE (D+E+F+G)					51.5
I. AVAILABLE PSI					60
J. RESIDUAL PSI (I-H)					8.4
K. PUMP BOOST					SEE NOTE BELOW
L. ADJUSTED RESIDUAL PSI (J+K)					8.4 SEE NOTE BELOW

BOOSTER PUMP NOTE:
CONTRACTOR SHALL PROVIDE A BID ALTERNATE FOR BOOSTER PUMP ASSEMBLY IF THE AVAILABLE PRESSURE IS INADEQUATE TO SUPPORT THE DESIGNED HYDRAULIC CRITERIA AT THE TIME OF CONSTRUCTION. DUE TO FLUCTUATING PRESSURE A BOOSTER PUMP MIGHT BE NEEDED. PROVIDE BOOSTER PUMP SUFFICIENT ENOUGH TO INSURE THAT THE IRRIGATION SYSTEM SHALL WORK PROPERLY. SHOULD PRESSURE BE DIFFERENT THEN SHOWN ON THE PLAN CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH INSTALLATION.





SEE SHEET L-15 FOR IRRIGATION LEGENDS
SEE SHEET L-15 FOR IRRIGATION SCHEDULE
SEE SHEET L-15 FOR IRRIGATION NOTES
SEE SHEET L-17, L-18 AND L-19 FOR IRRIGATION DETAILS
SEE BOOK SPECIFICATIONS FOR IRRIGATION SPECIFICATIONS

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COMMUNITY DEVELOPMENT DEPARTMENT
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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE • LAND PLANNING
5903 BUSINESSPARK AVE. SUITE 101 • SAN DIEGO, CA 92131
PH (858) 693-8824 FAX (858) 693-1182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA No. 2524 Exp. 8-30-24 STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

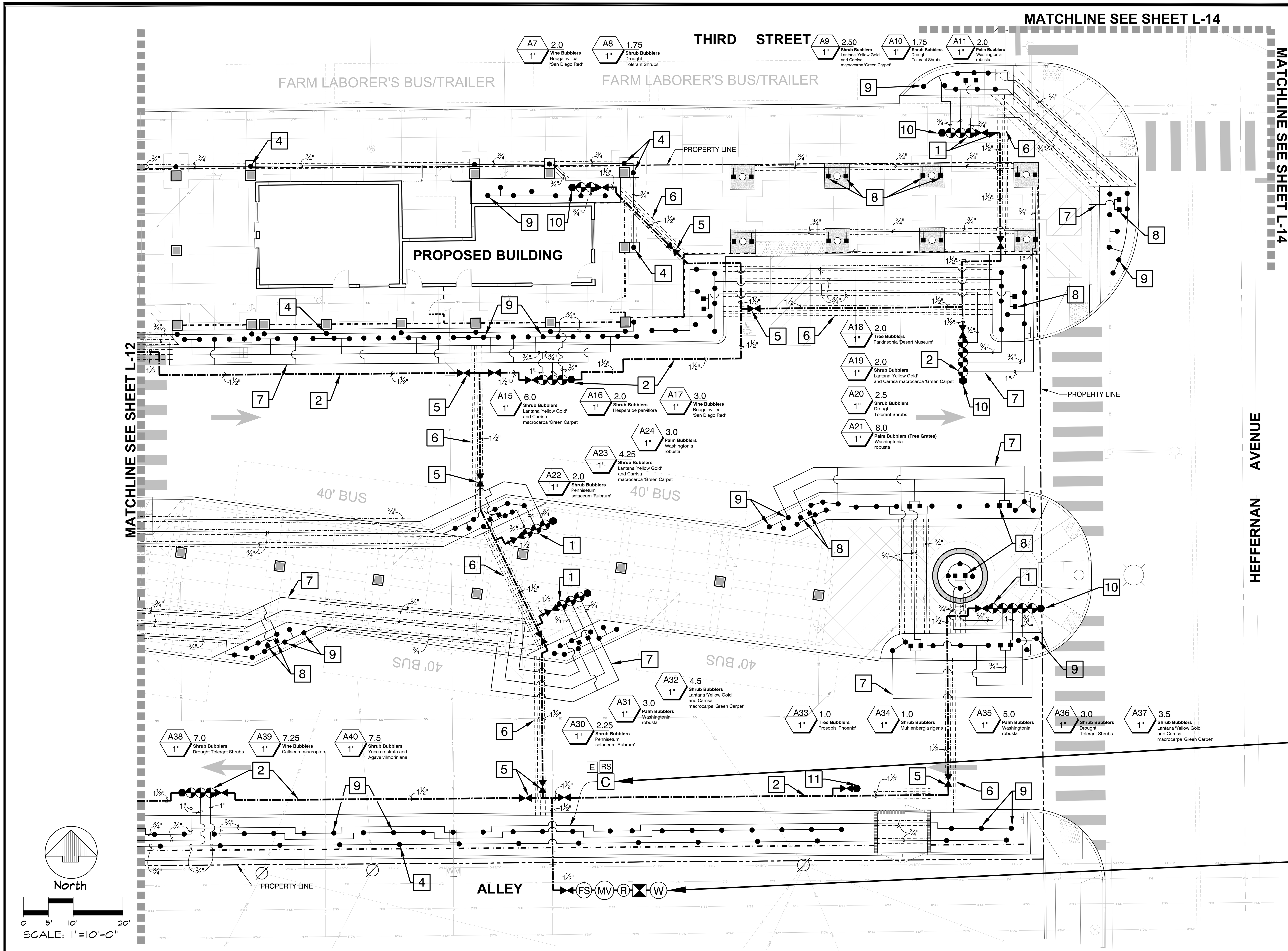
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION PLAN

SHEET: L-12
69 OF 145

BID DELIVERABLE

SEE SHEET L-15 FOR IRRIGATION LEGENDS
SEE SHEET L-15 FOR IRRIGATION SCHEDULE
SEE SHEET L-15 FOR IRRIGATION NOTES
SEE SHEET L-17, L-18 AND L-19 FOR IRRIGATION DETAILS
SEE BOOK SPECIFICATIONS FOR IRRIGATION SPECIFICATIONS



IRRIGATION CONTROLLER

CONTRACTOR SHALL INSTALL (1) HUNTER ACC2 CONVENTIONAL CONTROLLER, MODEL A2C-4800-PED-SS IN A STAINLESS STEEL PEDESTAL ENCLOSURE. INSTALL IN THE DECOMPOSED GRANITE AREA ADJACENT TO POINT-OF-CONNECTION. FINAL LOCATION OF CONTROLLER SHALL BE APPROVED BY AUTHORIZED CITY REPRESENTATIVE PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE 120 VOLT ELECTRICAL SERVICE TO CONTROLLER PER MANUFACTURER RECOMMENDATIONS. INSTALL WITH HUNTER SOLAR SYNC DEVICE.

POINT OF CONNECTION INFORMATION

Water Meter	1" Potable Water Meter per Civil Engineer
Controller Type	Hunter ACC2 Conventional Controller, Model A2C-4800-PED-SS. Install with Hunter SOLAR SYNC-SEN
Backflow Device	1-1/4" Febco 825Y.
Static Pressure	60 psi
Peak Flow	14 gpm
Stations Available	48
Stations Used	40

IRRIGATION BOOSTER PUMP NOTE

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L-13

NO.	BY:	REVISION COMMENTS

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APPROVED BY:
ENGINEER DATE

SEAL:

APPROVED BY: ICTC
ENGINEER DATE

LANDSCAPE ARCHIITECT OF WORK:
TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
9903 BUSINESSPARK AVE. SUITE 101 · SAN DIEGO, CA 92131
PH: (858) 693-8824 FAX: (858) 693-1182
TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · 1458 · Signature · 6-30-24 Renewal Date · 2-1-24 Date · STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

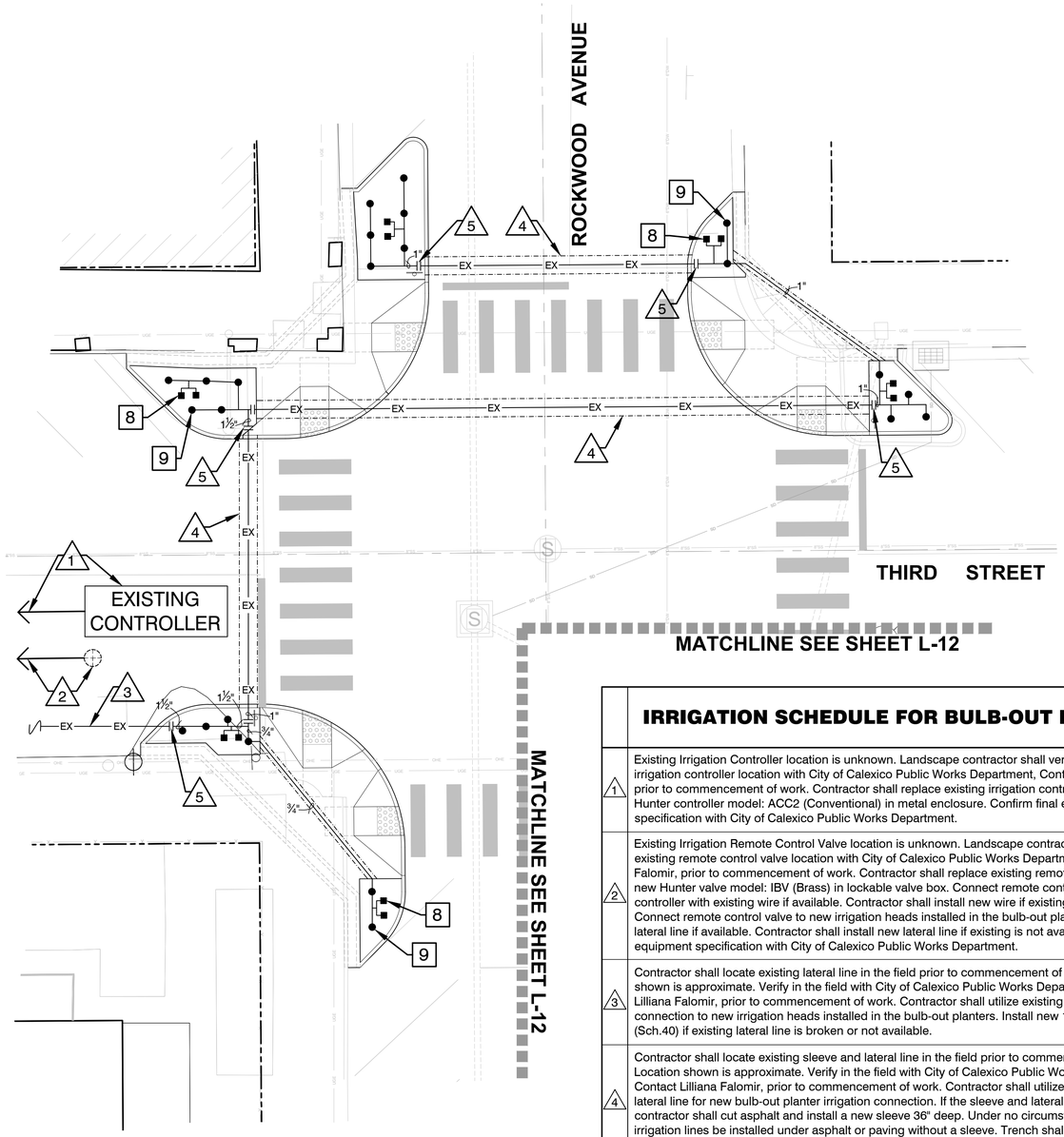
SHEET TITLE: IRRIGATION PLAN

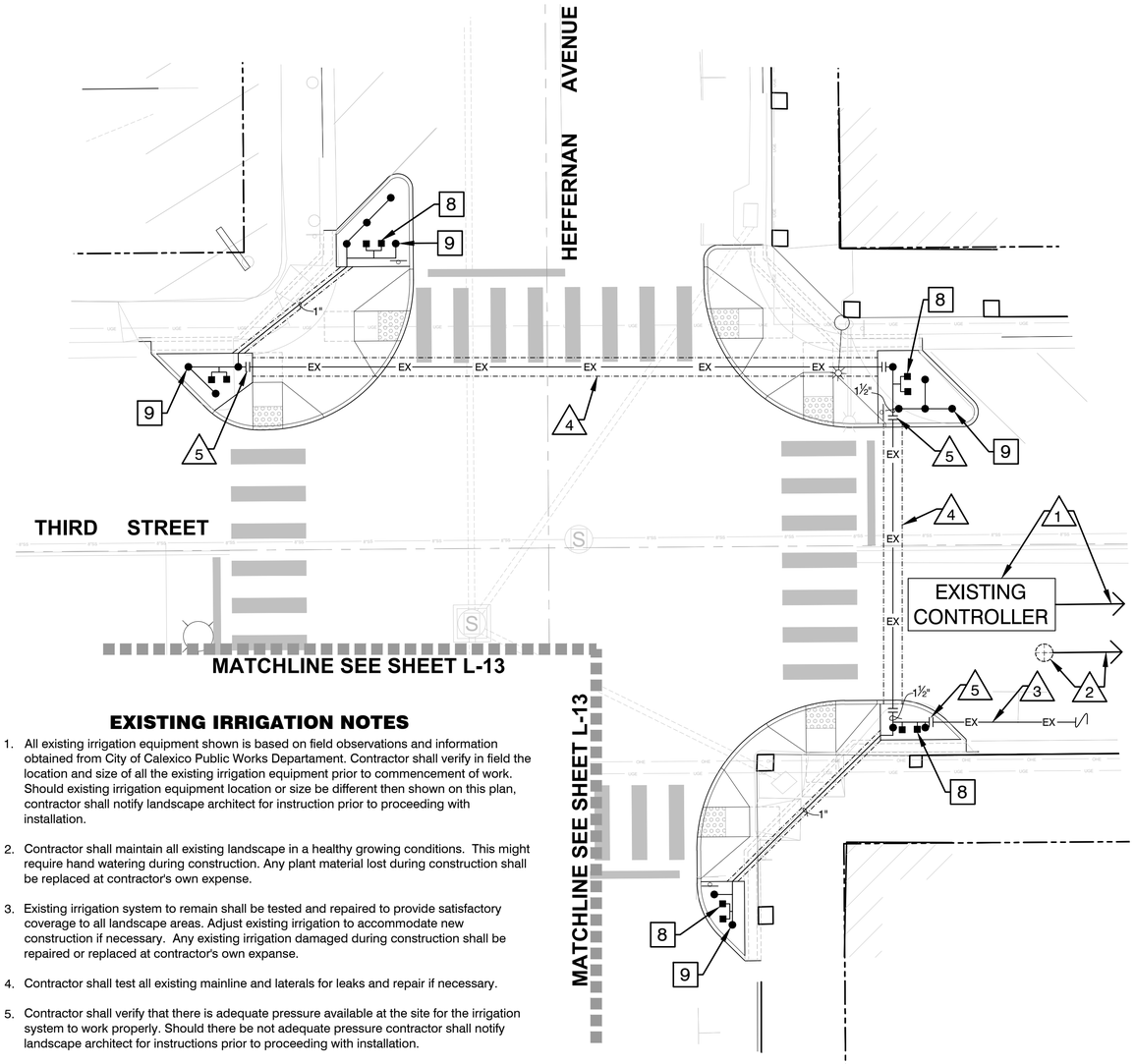
SHEET: 70 OF 145

BID DELIVERABLE

PRE-CONSTRUCTION MEETING WITH CITY OF CALEXICO NOTE

Landscape Contractor shall schedule a pre-construction meeting with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work to discuss and confirm location of all existing irrigation equipment, pipes and wire for the bulb-out planters. All irrigation installation for the bulb-out planters shall be coordinated and confirmed with the City of Calexico Public Works Department.





IRRIGATION SCHEDULE FOR BULB-OUT PLANTERS

1	Existing Irrigation Controller location is unknown. Landscape contractor shall verify the existing irrigation controller location with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work. Contractor shall replace existing irrigation controller with new Hunter controller model: ACC2 (Conventional) in metal enclosure. Confirm final equipment specification with City of Calexico Public Works Department.
2	Existing Irrigation Remote Control Valve location is unknown. Landscape contractor shall verify the existing remote control valve location with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work. Contractor shall replace existing remote control valve with new Hunter valve model: IBV (Brass) in lockable valve box. Connect remote control valve to controller with existing wire if available. Contractor shall install new wire if existing is not available. Connect remote control valve to new irrigation heads installed in the bulb-out planters with existing lateral line if available. Contractor shall install new lateral line if existing is not available. Confirm final equipment specification with City of Calexico Public Works Department.
3	Contractor shall locate existing lateral line in the field prior to commencement of work. Location shown is approximate. Verify in the field with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work. Contractor shall utilize existing lateral line for connection to new irrigation heads installed in the bulb-out planters. Install new 1-1/2" lateral line (Sch.40) if existing lateral line is broken or not available.
4	Contractor shall locate existing sleeve and lateral line in the field prior to commencement of work. Location shown is approximate. Verify in the field with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work. Contractor shall utilize existing sleeve and lateral line for new bulb-out planter irrigation connection. If the sleeve and lateral line is not available contractor shall cut asphalt and install a new sleeve 36" deep. Under no circumstances shall new irrigation lines be installed under asphalt or paving without a sleeve. Trench shall be backfilled with road base compacted to 90% and patched with asphaltic concrete.
5	Contractor shall connect new lateral line to existing lateral line at this approximate location right behind curb. Location shown is approximate. Verify in the field with City of Calexico Public Works Department, Contact Lilliana Falomir, prior to commencement of work.

EXISTING IRRIGATION NOTES

1. All existing irrigation equipment shown is based on field observations and information obtained from City of Calexico Public Works Departament. Contractor shall verify in field the location and size of all the existing irrigation equipment prior to commencement of work. Should existing irrigation equipment location or size be different then shown on this plan, contractor shall notify landscape architect for instruction prior to proceeding with installation.
2. Contractor shall maintain all existing landscape in a healthy growing conditions. This might require hand watering during construction. Any plant material lost during construction shall be replaced at contractor's own expense.
3. Existing irrigation system to remain shall be tested and repaired to provide satisfactory coverage to all landscape areas. Adjust existing irrigation to accommodate new construction if necessary. Any existing irrigation damaged during construction shall be repaired or replaced at contractor's own expanse.
4. Contractor shall test all existing mainline and laterals for leaks and repair if necessary.
5. Contractor shall verify that there is adequate pressure available at the site for the irrigation system to work properly. Should there be not adequate pressure contractor shall notify landscape architect for instructions prior to proceeding with installation.
6. If available pressure exceeds 80 psi contractor shall adjust pressure at pressure regulator. If there is no pressure regulator contractor shall install new pressure regulator at the mainline point of connection.
7. Contractor shall adjust pressure regulator and flow at valves to provide correct operating volume and pressure to all drip tubing, bubbler heads, MP Rotators and rotors on each circuit.

SEE SHEET L-15 FOR IRRIGATION LEGENDS
SEE SHEET L-15 FOR IRRIGATION SCHEDULE
SEE SHEET L-15 FOR IRRIGATION NOTES
SEE SHEET L-17, L-18 AND L-19 FOR IRRIGATION DETAILS
SEE BOOK SPECIFICATIONS FOR IRRIGATION SPECIFICATIONS

North

0 5' 10' 20'

SCALE: 1"=10'-0"

L-14

NO.	BY:	REVISION COMMENTS

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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

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LANDSCAPE ARCHITECT OF WORK:
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TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA C-6-30-24 STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION PLAN

SHEET: 71 OF 145

BID DELIVERABLE

EQUIPMENT LEGEND

SYMBOL	DESCRIPTION	MANUF	MODEL	SIZE	NOTES
(W)	Potable Water Meter			1"	By others. See Civil Engineer's Drawings. Approx. where shown, field verify.
⧓	Reduced Pressure Backflow Preventer	Febco	825Y	1-1/4"	Contractor shall install with Wilkins 1-1/4" 500XLYSBR 80 mesh Y-strainer. If psi is found to exceed 80 psi, install 25-75 psi regulator downstream on backflow assembly. See Detail I4, Sheet L-17. Install with Strong Box smooth touch vandal resistant backflow enclosure. Enclosure shall be large enough to accommodate backflow assembly. Install per manuf. recommendations.
◔	Remote Control Valve	Hunter	ICV-xxxG	Size Per Plan	Install in valve box with tan color lid per Details I2 and I3, Sheet L-17.
(MV)	Master Control Valve (Brass)	Hunter	IBV-101G	1"	Install in valve box with tan color lid per Detail I2, Sheet L-17. Install all wires connecting master valve to the controller in a continuous conduit.
(R)	Pressure Reducing Valve	Wilkins	500 Series	Line Size	Install downstream on backflow assembly if psi is found to exceed 80 psi. See Reduced Pressure Backflow Preventer above.
C	Controller 'A'	Hunter	ACC2 Conventional A2C-4800-PED-SS	48-Stations	Install in stainless steel pedestal enclosure. Install with Hunter Solar Sync. Install in the decomposed granite area adjacent to point-of-connection. Final location of controller and Solar Sync shall be approved by authorized owner representative prior to installation. Install per manufacturer's specifications. See Detail I11, Sheet L-18. See note below.
(FS)	Flow Sensor	Flowmec	QS200-10	1"	Install with a 1" Sch. 80 PVC tee. Install in valve box with tan lid. Valve box shall be large enough to accommodate flow sensor assembly. Contractor to input the K value and Offset value at the controller. Connect to controller with a 14 AWG. Install all wires connecting flow sensor to the controller in a continuous conduit. Install per manufacturer's specifications. See Flow Sensor Detail I5, Sheet L-17.
⬢	Quick Coupler	Rain Bird	44-LRC	1"	Install in 10" Round Valve Box with tan lid per Detail Ix, Sheet-L-x. Install with ACME threads. Brand lid with letters "QC".
⋈	Ball Valve	KBI	WLT-0000-T	Line Size	Install in 10" round valve box with tan lid per Detail I7, Sheet L-18.
E	Electrical Connection			120 Volt	Plug or hard wire controller onto GFI electrical outlet. Location to be determined by Owner.
NOT SHOWN	Check Valve	KBI	KC-Series		Install where required to prevent low head drainage.
RS	Rain Sensor	Hunter	SOLAR SYNC-SEN		Mount per manufacture's specifications on a metal pole. Mount in an area that will be exposed to unobstructed rainfall, but not in the path of sprinkler spray. See Detail I12, Sheet L-18.
	Pressurized Mainline	PVC	Class 315	Size Per Plan	Install at 18" depth. See Trenching Detail I8, Sheet L-18. Install trust blocks on mainline at direction changes per Detail I9, Sheet L-18.
	Non-pressurized Lateral	PVC	Sch. 40	Size Per Plan	Install at 12" depth. See Trenching Detail I8, Sheet L-18.
	Sleeve	PVC	See Notes	Size Per Plan	**Sleeve under improvements:** Under Vehicle Paving install mainline, wiring and laterals in separate PVC Sch. 80 sleeves at 36" depth. Under Pedestrian Paving install mainline, wiring and laterals in separate PVC Sch. 40 sleeves at 24" depth. All sleeves shall be twice the diameter of the pipe. Note: where mainline is shown sleeved, install 4" wire sleeve. See Sleeve Detail I6, Sheet L-17.
	Controller Station Maximum GPM Valve Size				

NOTE: ALL SPRAY HEADS ARE TO BE EQUIPPED WITH BUILT-IN CHECK VALVES. ALL SPRAY HEADS TO BE EQUIPPED WITH A PRESSURE COMPENSATING DEVICE. ALL HEADS ARE TO BE ADJUSTED TO PROVIDE BEST COVERAGE TO THE LANDSCAPED AREA WITHOUT OVER SPRAY ONTO BUILDINGS, WALLS, WALKWAYS AND PAVING.

IRRIGATION SYSTEM IS DESIGNED TO OPERATE ONE VALVE AT A TIME. IF NECESSARY CONTRACTOR CAN COMBINE THE RUN TIME OF SOME VALVES TO ASSURE THE PROPER PERFORMANCE OF THE MASTER VALVE AND THE FLOW SENSOR. (FLOW SENSOR AND MASTER VALVE NEED MORE THEN 1 GPM TO OPERATE PROPERLY). CONTRACTOR CAN SET THE CONTROLLER TO OPERATE TWO OR MORE VALVES AT THE SAME TIME ONLY IF THE TOTAL COMBINED FLOW OF THE VALVES DO NOT EXCEED 20 GPM.

CONTRACTOR SHALL CONTACT HUNTER SPECIFICATION MANAGER, CHRIS ROESINK, AT 760.703.2474 AND SHALL SCHEDULE PRE-CONSTRUCTION MEETING TO REVIEW INSTALLATION DETAILS AND SPECIFICATIONS IN FIELD.

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	MANUF	MODEL	PSI	RADIUS	GPM	NOTES
	Shrub/Tree Bubbler	**Hunter**	**PROS-06-PRS30-CV**				**Body Style**
●	Shrub Multi-Stream Bubbler		MSBN-25Q	30	1'	0.25	Install all bubblers on 6" pop-up bodies. Use bottom inlet only. See Pop-up Detail I14, Sheet L-19.
■	Tree/Palm Multi-Stream Bubbler		MSBN-50H	30	1'	0.50	
	Shrub MP Rotator	**Hunter**	**Pro-Spray**				**Body Style**
①	MP Rotator Nozzle - Quarter		PROS-12-PRS30-CV-MP2000-90	30	13' to 21'	0.34	Install all heads on 12" pop-up bodies. Use bottom inlet only. See Pop-up Detail I14, Sheet L-19.
②	MP Rotator Nozzle - Half		PROS-12-PRS30-CV-MP2000-90	30	13' to 21'	0.64	

IRRIGATION SCHEDULE

1	Mainline and remote control valves shown in hardscape for clarity only. Install irrigation mainline and remote control valves in the planter area at 18" from edge of concrete. See Details I2 and I3, Sheet L-17 for remote control valve manifold installation.
2	Mainline and remote control valves shown in hardscape for clarity only. Install irrigation mainline and remote control valves in the planter area at 18" from back of curb. See Details I2 and I3, Sheet L-17 for remote control valve manifold installation.
3	Install mainline at 18" from edge if concrete.
4	Install (1) bubbler on a 6" pop-up body at each vine. Vine location shown is approximate. See Planting Plan for exact vine location. See Detail I13, Sheet L-19.
5	Ball valve shown in hardscape for clarity only. Install ball valve in the planter area (typ).
6	Wire Sleeve (typ).
7	Lateral lines shown in hardscape for clarity only. Install all lateral lines in the planter areas (Typ).
8	Tree/Palm Bubbler location shown is approximate. See Planting Plan for exact tree/palm location. See Detail I13, Sheet L-19. Install (2) bubblers at each tree/palm location. Install both bubblers on 6" pop-up bodies.
9	Install (1) bubbler on a 6" pop-up body at each shrub. Shrub location shown is approximate. See Planting Plan for exact shrub location. See Detail I13, Sheet L-19.
10	Provide (2) two extra control wires and (1) extra common wire to the end of the mainline run. Install wires with water proof splices 3M part number DBRY-6 distributed by Paige electric in a 10" round valve box with a tan lid.
11	Quick Coupler Valve and Ball Valve shown in hardscape for clarity only. Install ball valve in the planter area (typ).

IRRIGATION AUDIT NOTE

Landscape Contractor shall include a third party certified irrigation auditor as part of their agreement. Per state water use requirements City of Calexico might require that a landscape irrigation audit shall be conducted by a third party certified landscape irrigation auditor. Landscape audit shall not by conducted by the person who designed the landscape or installed the landscape. The project applicant shall submit an irrigation audit report to the City of Calexico with certification of completion form if required. The audit shall include but not be limited to inspection, system tune-up, system test with application rate, soils types, plant factors, slope, exposure and any other factors necessary for accurate programming.

IRRIGATION BOOSTER PUMP NOTE

CONTRACTOR SHALL PROVIDE A BID ALTERNATE FOR BOOSTER PUMP ASSEMBLY IF THE AVAILABLE PRESSURE IS INADEQUATE TO SUPPORT THE DESIGNED HYDRAULIC CRITERIA AT THE TIME OF CONSTRUCTION. DUE TO FLUCTUATING PRESSURE A BOOSTER PUMP MIGHT BE NEEDED. PROVIDE BOOSTER PUMP SUFFICIENT ENOUGH TO INSURE THAT THE IRRIGATION SYSTEM SHALL WORK PROPERLY. SHOULD PRESSURE BE DIFFERENT THEN SHOWN ON THE PLAN CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH INSTALLATION.

SEE SHEET L-17, L-18 AND L-19 FOR IRRIGATION DETAILS
SEE BOOK SPECIFICATIONS FOR IRRIGATION SPECIFICATIONS

IRRIGATION NOTES

1. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING OR ARCHITECTUAL PLANS AND AS-BUILT DRAWINGS BEFORE BEGINNING WORK.
4. CONTRACTOR SHALL COORDINATE ALL IRRIGATION LINES AND CONTROLLER WIRES WITH PROPOSED LOCATIONS OF PLANT MATERIAL AND ROOT BARRIERS PRIOR TO INSTALLATION. ALL IRRIGATION SLEEVES SHALL BE COORDINATED AND INSTALLED PRIOR TO INSTALLATION OF ANY PAVING, WALL FOOTINGS / FOUNDATIONS, CURBS AND ETC.
5. THIS DESIGN IS DIAGRAMMATIC. ALL EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARITY ONLY AND IS TO BE INSTALLED WITHIN PLANTING AREAS AS NECESSARY.
6. DO NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE OWNER.
7. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH CITY OF CALEXICO, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
8. ALL LATERALS, MAINLINE AND WIRE UNDER PEDESTRIAN PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE TWICE THE DIAMETER OF THE PIPE CARRIED. ALL LATERALS, MAINLINE AND WIRE UNDER VEHICLE PAVED AREAS TO BE INSTALLED IN A SCH. 80 SLEEVE TWICE THE DIAMETER OF THE PIPE CARRIED. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MINIMUM DEPTH AS SHOWN ON THE SLEEVING DETAILS. SLEEVES TO EXTEND AT LEAST 12" PAST THE EDGE OF THE PAVING. ALL SLEEVES TO BE AS SHOWN ON THE PLANS.
9. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON THE PLANS. ALL HEADS ARE TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO BUILDING, WALLS, FENCES AND HARDSCAPE. THIS INCLUDES, BUT NOT LIMITED TO, ADJUSTMENT OF DIFFUSER PIN OR ADJUSTMENT SCREW, REPLACEMENT OF PRESSURE COMPENSATING SCREENS, REPLACEMENT OF NOZZLES WITH MORE APPROPRIATE RADIUS UNITS AND THE REPLACEMENT OF NOZZLES WITH ADJUSTABLE ARC UNITS.
10. ALL HEADS INDICATED ON THE PLANS AT A SPACING LESS THAN 75% OF FULL OPEN THROW, AS PER MANUFACTURER'S RECOMMENDATIONS, ARE TO RECEIVE A PCS SCREEN OF APPROPRIATE SIZE TO REDUCE THE RADIUS TO MORE CLOSELY MATCH THE SPACING. REFER TO THE MANUFACTURER'S CHARTS PROVIDED WITH PCS SCREENS FOR SIZING OF SCREENS.
11. PROVIDE CLEAN SAND BEDDING AND BACKFILL FOR PRESSURE MAINLINE PIPE (3 IN. BELOW AND 6 IN. ABOVE PIPE MINIMUM).
12. IRRIGATION SYSTEMS ARE TO BE INSTALLED AS SHOWN ON THE PLANS & IN ACCORDANCE W/THE CRITERIA AND STANDARDS OF THE CITY OF CALEXICO LANDSCAPE STANDARDS MANUAL & OTHER APPLICABLE STDS. AS OF THE APPROVED DATE OF THESE PLANS.
13. USE VARIABLE ARC NOZZLES AS REQUIRED TO ACHIEVE COMPLETE COVERAGE WITH MINIMAL OVERSPRAY
14. SYSTEMS ARE DESIGNED FOR A MINIMUM OF 30 psi FOR SPRINKLER HEADS.
15. ALL LATERAL END RUNS SHALL BE 3/4" Sch. 40, UNLESS OTHERWISE NOTED.
16. ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN VALVE BOXES, ONE VALVE PER BOX. LOCATE ALL REMOTE CONTROL AND QUICK COUPLING VALVES ADJACENT TO WALKS OR CURBS.
17. CHECK VALVES SHALL BE INSTALLED AS REQUIRED TO PREVENT ALL LOW HEAD DRAINAGE.
18. CONTRACTOR SHALL VERIFY THAT THERE IS ADEQUATE PRESSURE AVAILABLE AT THE SITE FOR THE IRRIGATION SYSTEM TO WORK PROPERLY. IDEALLY THERE SHOULD BE 30 POUNDS OF PRESSURE AT LAST HEAD ON EVERY CIRCUIT. DESIGN ASSUMES 60 PSI AT THE POINT OF CONNECTION AS PROVIDED BY THE CITY OF CALEXICO. SHOULD PRESSURE BE DIFFERENT THEN SHOWN ON THE PLAN CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH INSTALLATION. **SEE BOOSTER PUMP NOTE 24 BELOW.**
19. PROVIDE (2) TWO EXTRA CONTROL WIRES AND (1) EXTRA COMMON WIRE TO EACH END OF THE MAINLINE RUN (7 TOTAL). INSTALL WIRES WITH WATER PROOF SPLICES 3M PART NUMBER DBRY-6 DISTRIBUTED BY PAIGE ELECTRIC IN A 10" ROUND VALVE BOX WITH A TAN LID.
20. IF AVAILABLE PRESSURE EXCEEDS 80 PSI CONTRACTOR SHALL ADJUST PRESSURE AT PRESSURE REQULATOR. IF THERE IS NO PRESSURE REGULATOR CONTRACTOR SHALL INSTALL NEW PRESSURE REGULATOR AT POINT OF CONNECTION.
21. **CONTRACTOR SHALL PROVIDE LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE TO THE LANDSCAPE ARCHITECT AT THE TIME OF FINAL INSPECTION. SEE NOTE ON THIS SHEET.**
22. **CONTRACTOR SHALL PROVIDE IRRIGATION WATERING SCHEDULES FOR PLANT ESTABLISHMENT PERIOD, ESTABLISHED LANDSCAPING, TEMPORARILY IRRIGATED AREAS AND DIFFERENT SEASONS. IRRIGATION WATERING SCHEDULE SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT AT THE TIME OF FINAL INSPECTION. SEE NOTE ON THIS SHEET.**
23. **IRRIGATION AUDIT SHALL BE CONDUCTED BY A THIRD PARTY. SEE NOTE ON THIS SHEET.**
24. **CONTRACTOR SHALL PROVIDE A BID ALTERNATE FOR BOOSTER PUMP ASSEMBLY IF THE AVAILABLE PRESSURE IS INADEQUATE TO SUPPORT THE DESIGNED HYDRAULIC CRITERIA AT THE TIME OF CONSTRUCTION. PROVIDE BID ALTERNATE FOR EACH POINT-OF-CONNECTION. DUE TO FLUCTUATING PRESSURE A BOOSTER PUMP MIGHT BE NEEDED. PROVIDE BOOSTER PUMP SUFFICIENT ENOUGH TO INSURE THAT THE IRRIGATION SYSTEM SHALL WORK PROPERLY. SHOULD PRESSURE BE DIFFERENT THEN SHOWN ON THE PLAN CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH INSTALLATION.**

IRRIGATION SCHEDULE AND LANDSCAPE AND IRRIGATION MAINTENANCE SCHEDULE NOTES

Landscape Contractor shall provide the following to Landscape Architect at the time of final inspection:

1) An irrigation watering schedule shall be prepared for all landscape projects subject to the Water Efficient Landscape Ordinance. The schedule shall be submitted to the City prior to granting a permit of occupancy and shall include the following information:
   a) A description of the automatic irrigation system that will be used for the project.
   b) The ETo data relied on to develop the irrigation schedule, including the source of the data.
   c) The time period when overhead irrigation will be scheduled and confirm that no overhead irrigation shall be used between 6:00 a.m. and 10:00 p.m.
   d) The parameters used for setting the irrigation system controller for watering times for:
      i. The plant establishment period
      ii. Established landscaping
      iii. Temporarily irrigated areas
      iv. Different seasons during the year
   e) The consideration used for each station for the following factors:
      i. The days between irrigation
      ii. Station run time in minutes for each irrigation event, designed to avoid runoff
      iii. Number of cycle starts required for each irrigation event, designed to avoid runoff
      iv. Amount of water to be applied on a monthly basis
      v. The root depth setting
      vi. The plant type setting
      vii. The soil type
      viii. The slope factor
      ix. The shade factor
2) A maintenance schedule for the landscaping and irrigation system shall be prepared for all landscape projects subject to the Water Efficient Landscape Ordinance. The schedule shall be submitted to the City prior to granting a permit of occupancy and shall include provisions for the following:
   a) General Landscape and Irrigation Maintenance. The schedule shall identify the entity that will be responsible for maintenance and shall provide for all of the general landscape and irrigation maintenance requirements.
   b) Water Efficient Landscape Maintenance. In addition to the general maintenance requirements, the maintenance schedule for landscape projects that are subject to the Water Efficient Landscape Ordinance shall include provisions to:
   c) Maintain and operate the landscaping and irrigation system on the property consistent with the MAWA.
   d) Maintain the irrigation system to meet or exceed an irrigation efficiency necessary to meet MAWA.
   e) Replace broken or malfunctioning irrigation system components with components of the same materials and specifications, their equivalent or better.

Ensure that when vegetation is replaced, replacement plantings are representative of the hydrozone in which the plants were removed and are typical of the water use requirements of the plants removed, so that the replaced vegetation does not result in mixing high water use plants with low water use plants in the same hydrozone.

L-15

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

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TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE • LAND PLANNING
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TDG JOB NO. 18-12
Ronald S. Teshima 02/01/24
RONALD S. TESHIMA DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA STATE OF CALIFORNIA Exp. 6-30-24 2-1-24

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION LEGENDS AND NOTES

SHEET: 72 OF 145

BID DELIVERABLE

LEGEND

SYMBOL	DESCRIPTION
	HYDROZONE 1 Plant Material - Ornamental drought tolarent/low water use plants Plant Coefficient *(PF)* - 0.3 Annual Yearly Evapotranspiration *(ETo)* - 84.2 Landscape Area *(HA)* - 2,279 Sq. Ft. Irrigation Type - MP Rotators Irrigation Efficiency *(IE)* - 0.75
	HYDROZONE 2 Plant Material - Ornamental drought tolarent/low water use plants Plant Coefficient *(PF)* - 0.3 Annual Yearly Evapotranspiration *(ETo)* - 84.2 Landscape Area *(HA)* - 6,993 Sq. Ft. Irrigation Type - Bubbler Irrigation Efficiency *(IE)* - 0.85

WATER USE CALCULATIONS

MAXIMUM APPLIED WATER ALLOWANCE CALCULATION - MAWA

MAWA = (ETo)(0.62)[(0.45)(LA)+(0.45)(SLA)]
MAWA = (84.2)(0.62)[(0.45)(9,272)+(0.45)(0)]
MAWA = 483,998 Gallons per Year
MAWA = 483,998 / 748 = 647 HCF (Hundred-Cubic-Feet Per Year)

ESTIMATED TOTAL WATER USE CALCULATION - ETWU

HYDROZONE 1

ETWU = (ETo)(0.62)[(PF x HA / IE + (SLA)]
ETWU = (84.2)(0.62)[(0.3 x 2,279 / 0.75 + (0)]
ETWU = 47,585 Gallons per Year
ETWU = 47,585 / 748 = 64 HCF (Hundred-Cubic-Feet Per Year)

HYDROZONE 2

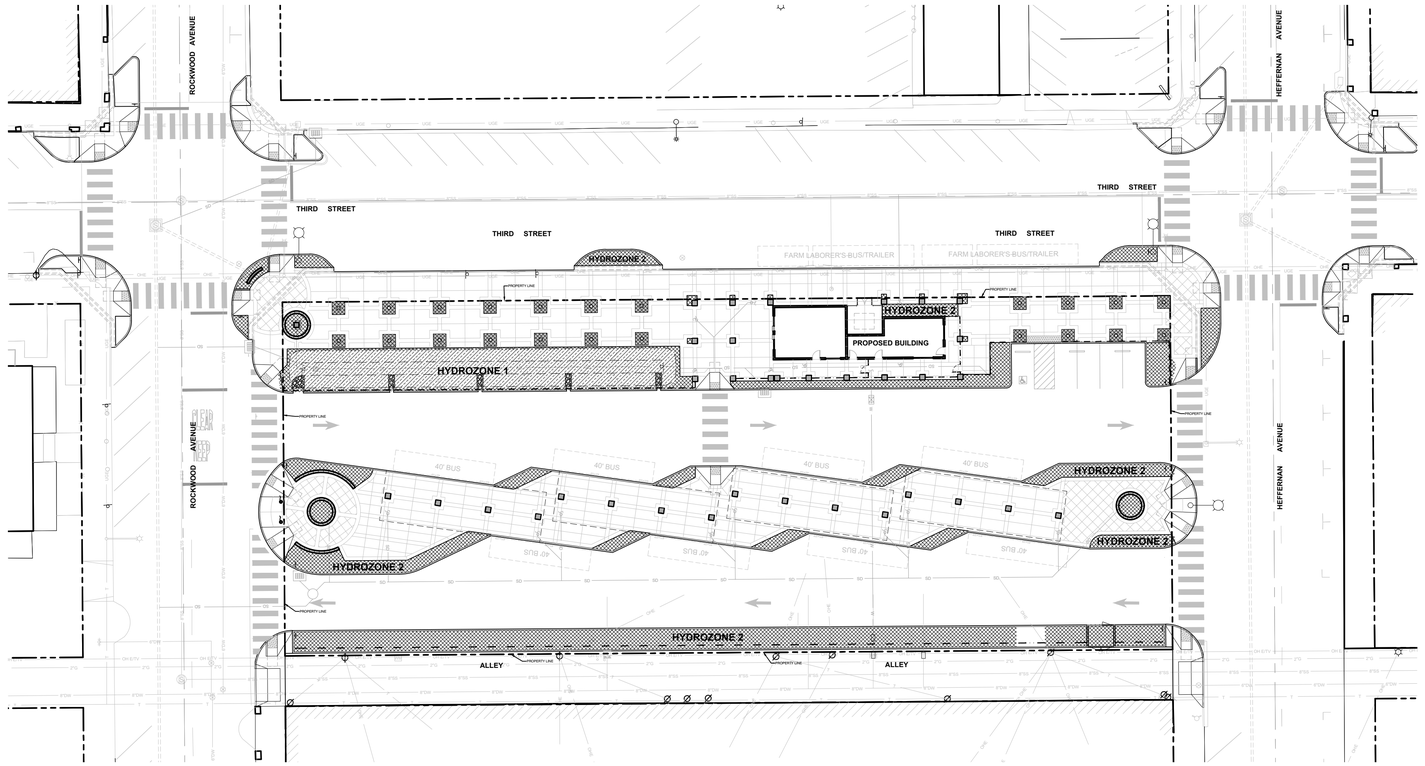
ETWU = (ETo)(0.62)[(PF x HA / IE + (SLA)]
ETWU = (84.2)(0.62)[(0.3 x 6,993 / 0.85 + (0)]
ETWU = 128,835 Gallons per Year
ETWU = 128,835 / 748 = 172 HCF (Hundred-Cubic-Feet Per Year)

TOTAL FOR ALL HYDROZONES

ETWU = HYDROZONE 1 + HYDROZONE 2
ETWU = 47,585 + 128,835
ETWU = 176,420 Gallons per Year
ETWU = 176,420 / 748 = 236 HCF (Hundred-Cubic-Feet Per Year)

CONCLUSION

*The **ETWU (176,420 gallons per year)** is less than **MAWA (483,998 gallons per year)**. The water budget for Calexico Transit Center complies with MAWA.*



North

0 5' 30' 60'
SCALE: 1"=30'-0"

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NO.	BY:	REVISION COMMENTS

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SEAL:

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RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · G-5024 · 2-1-24 · STATE OF CALIFORNIA

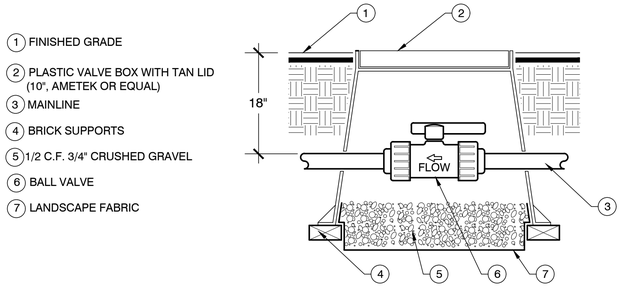
DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
WATER USE CALCULATIONS

SHEET: 73 OF 145

BID DELIVERABLE



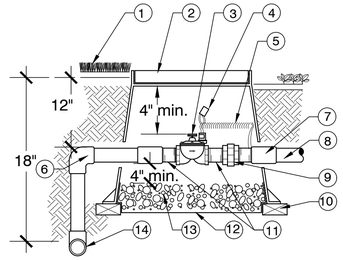
1. FINISHED GRADE
2. PLASTIC VALVE BOX WITH TAN LID (10", AMETEK OR EQUAL)
3. MAINLINE
4. BRICK SUPPORTS
5. 1/2 C.F. 3/4" CRUSHED GRAVEL
6. BALL VALVE
7. LANDSCAPE FABRIC

I1 BALL VALVE

NOT TO SCALE

NOTES:
1. ALL WIRE TO BE INSTALLED AS PER LOCAL CODES. USE WATER PROOF WIRE CONNECTOR - DBRY-6.
2. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
3. ALL VALVE BOX LIDS (GREEN COLOR) SHALL BE BRANDED WITH CONTROLLER ID AND STATION NUMBER. PROVIDE A STATION NUMBER TAG INSIDE THE VALVE BOX.
4. INSTALL ALL WIRES CONNECTING MASTER VALVE TO THE CONTROLLER IN A CONTINUOUS CONDUIT.

NOTES:
INSTALL PER HUNTER INDUSTRIES SPECIFICATIONS. CONTRACTOR SHALL CONTACT HUNTER SPECIFICATION MANAGER, CHRIS ROESINK, AT 760.703.2474 AND SHALL SCHEDULE PRE-CONSTRUCTION MEETING TO REVIEW INSTALLATION DETAILS AND SPECIFICATIONS IN FIELD.



1. FINISHED GRADE 1" BELOW VALVE BOX TOP IN TURF AREAS. 2" BELOW VALVE BOX IN SHRUB BEDS
2. TAN PLASTIC RECTANGULAR VALVE BOX WITH LOCKING LID. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE.
3. CONTROL VALVE, SEE LEGEND FOR SPEC
4. WATER PROOF WIRE CONNECTOR - 3M DBRY-6.
5. 18" WIRE LOOP (WRAP 15 TIMES AROUND 1/2" DIA. PIPE TO FORM COIL - REMOVE PIPE.)
6. PVC SCH.40 ELLS (2)
7. PVC SCH 40 SLIPxFIPT ADAPTER, (2 REQUIRED)
8. PVC LATERAL LINE - PIPE PER SPECS. ANGLE TO SPECIFIED DEPTH WITH 45 ELLS
9. SCH. 80 UNION
10. BRICK SUPPORTS - (1) ONE AT EACH CORNER
11. 3" SCH. 80 NIPPLE TYP. (3 TOTAL)
12. LANDSCAPE FABRIC
13. 1 C.F.- PEA GRAVEL
14. PVC MAINLINE PIPE FROM BACKFLOW PER SPECS.

I2 MASTER/REMOTE CONTROL VALVE

NOT TO SCALE

NOTES:
1. PRIMARY MAIN LINE. SEE PLAN FOR SIZE.
2. SUB-MAIN - SIZE VARIES. SEE SCHEDULE BELOW

MAINLINE SCHEDULE:

1-10 GPM	1" SCH. 40
11-18 GPM	1-1/4" SCH. 40
19-25 GPM	1-1/2" SCH. 40
26-39 GPM	2" CL. 315
40-58 GPM	2-1/2" CL. 315

3. TEE OR ELL WITH REDUCER BUSHING
4. BALL VALVE. SEE DETAIL.
5. CONTROL VALVE. SEE DETAIL.
6. QUICK COUPLER. SEE DETAIL.
7. LATERAL LINE (SCH. 40). SEE PLAN FOR SIZE.

NOTES:
A- VALVE BOXES LIDS SHALL BE LABELED WITH CONTROLLER ID AND STATION NUMBER BY HOT IRON BRANDING OR ALUMINUM ASPHALTIC BASE WATERPROOF PAINT. PROVIDE A STATION NUMBER TAG INSIDE THE VALVE BOX.

B- CONTROL VALVES SHALL BE INSTALLED TO ALLOW ORDERLY ARRANGEMENT OF VALVE BOXES.

C- LOCATE VALVE ASSEMBLIES IN SHRUB OR GROUNDCOVER AREAS ONLY.

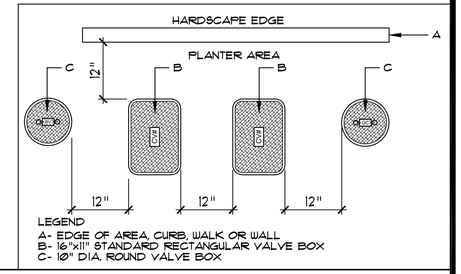
D- LOCATION OF VALVE ASSEMBLIES SHALL BE STAKED FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

E- CENTER VALVE BOXES OVER VALVE ASSEMBLE TO FACILITATE ACCESS AND MAINTENANCE.

F- SET VALVE BOXES AT EQUAL ELEVATIONS W/ TOPS AT 2" ABOVE FINISH GRADE IN SHRUB/ GROUNDCOVER AREAS.

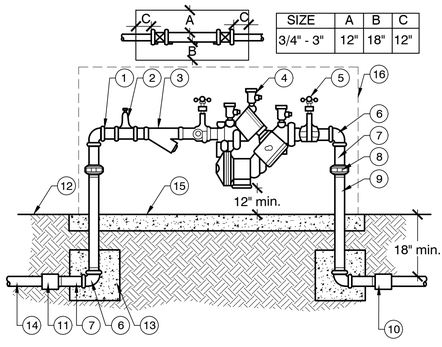
G- VALVE BOXES SHALL BE SET PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF AREA.

H- DO NOT DEFORM OR COLLAPSE VALVE BOX BY EXCESSIVE SOIL COMPACTION AROUND BOX.



I3 VALVE MANIFOLD INSTALLATION (TYPICAL)

NOT TO SCALE



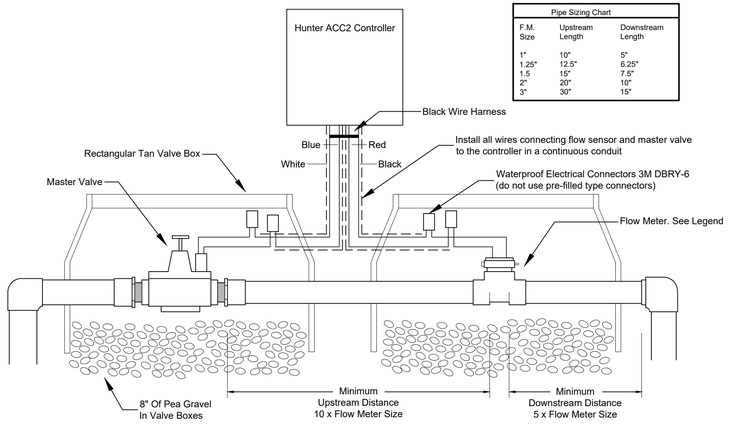
1. 3" BRASS NIPPLES (4)
2. PRESSURE REGULATOR
3. Y- STRAINER
4. R.P. BACKFLOW PREVENTER
5. BALL VALVES (2)
6. BRASS ELLS (2)
7. BRASS NIPPLES (4)
8. BRASS UNIONS (2)
9. BRASS RISERS (2)
10. S x T SCH. 40 PVC ADAPTER
11. DIELECTRIC ADAPTER
12. FINISHED GRADE
13. CONCRETE FOOTINGS 2 CU. FT. EACH
14. WATER SUPPLY: SOLID COPPER LOCATE AS CLOSE TO PROPERTY LINE AS POSSIBLE
15. CONCRETE SLAB (4" THICK)
16. STRONG BOX SMOOTH TOUCH VANDAL RESISTANT BACKFLOW ENCLOSURE. ENCLOSURE SHALL BE LARGE ENOUGH TO ACCOMMODATE BACKFLOW ASSEMBLY. INSTALL PER MANUF. RECOMMENDATIONS.

NOTES:

CONTRACTOR MAY SUBSITUTE TYPE K OR L COPPER PIPE FOR BRASS.
THIS INSTALLATION IS TYPICAL; CLEARANCES SHALL APPLY TO ALL OTHER TYPES OF BACKFLOW PREVENTION DEVICES.

I4 R.P. BACKFLOW PREVENTER

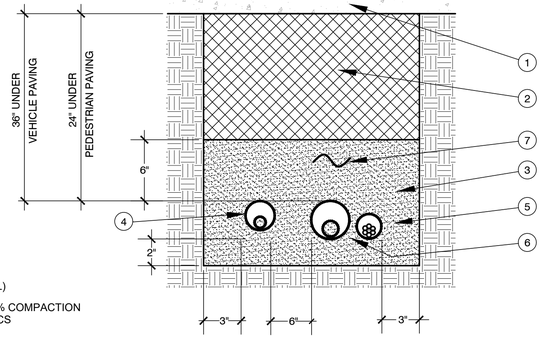
NOT TO SCALE



NOTES:
CONTRACTOR TO INPUT THE K VALUE AND OFFSET VALUE AT THE CONTROLLER. CONTACT HUNTER REPRESENTATIVE FOR ADDITIONAL INFORMATION. INSTALL PER MANUFACTURER'S SPECIFICATIONS

I5 FLOW METER

NOT TO SCALE



1. HARDSCAPE (TYPICAL)
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED - SEE SPECS
3. SAND (TYPICAL)
4. NON-PRESSURE LATERAL LINE IN SLEEVE 24" MINIMUM DEPTH
5. CONTROL WIRE SLEEVE ADJACENT TO MAINLINE SLEEVE
6. PRESSURE SUPPLY LINE IN SLEEVE 24" MINIMUM DEPTH
7. METALLIC BACKED LOCATION TAPE INSTALLED ENTIRE LENGTH OF SLEEVE DIRECTLY ABOVE MAINLINE.

NOTES:
1. All sleeves to be Sch.40 PVC (Sch.80 under vehicle paving).
2. All sleeves shall be 2x the size of the pipe being carried. Min. sleeve size shall be 2".
3. Extend sleeves 12" beyond edge of hardscape on both ends.
4. During installation tape closed ends of pipes until all laterals and wires have been run.

NOTE:
ALL PRESSURE MAINLINE UNDER DRIVES SHALL BE BURIED TO A 36" MINIMUM DEPTH.

I6 SLEEVING

NOT TO SCALE

L-17

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TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA No. 6-30-24 STATE OF CALIFORNIA

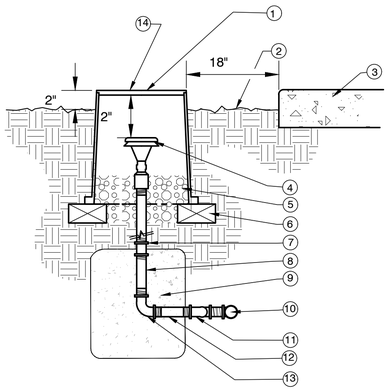
DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION DETAILS

SHEET: 74 OF 145

BID DELIVERABLE



1. 9" DIA. PLASTIC TAN VALVE BOX, BRAND "QC" ON LID INSTALL 2" ABOVE GRADE IN GROUNDCOVER
2. FINISH GRADE
3. PAVING OR STRUCTURE
4. QUICK COUPLER WITH RUBBER CAP
5. 5" DEPTH PEA GRAVEL
6. INSTALL BOX LEVEL WITH 2 STANDARD BRICKS
7. RED BRASS COUPLING
8. RED BRASS RISER
9. 1/2 CU. FT. MIN. CONC. THRUST BLOCK
10. PVC ELL OR TEE (CONNECTION TO MAINLINE)
11. (2) RED BRASS STREET ELLS
12. RED BRASS NIPPLES (2)
13. RED BRASS ELL
14. BRAND "QC" ON COVER

I7 QUICK COUPLER

NOT TO SCALE

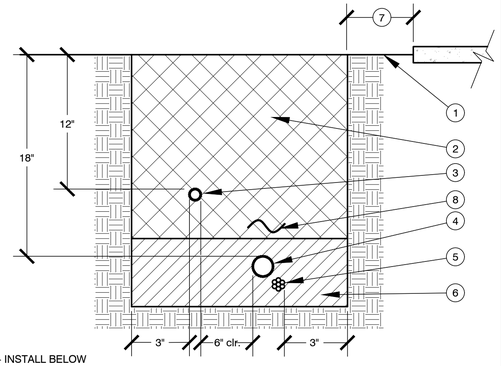
MAINLINE SPECIFICATIONS:
CL. 315 FOR 2" OR MORE SCH. 40 FOR 1-1/2" OR LESS.

NOTE:
ALL PRESSURE MAINLINE UNDER DRIVES SHALL BE BURIED TO A 36" MINIMUM DEPTH.

NOTES:
1. Pipe shall be snaked side to side in trench to allow expansion.

NOTE:
INSTALL TRUST BLOCKS ON MAINLINE AT DIRECTION CHANGES.

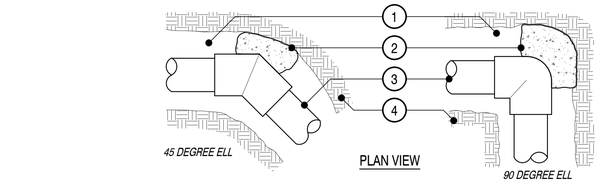
NOTE:
ALL PRESSURE MAINLINE FITTINGS SHALL BE SCH. 80



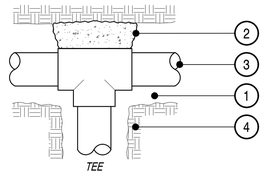
1. FINISH GRADE
2. CLEAN BACKFILL - 90% COMPACTION REQUIRED - SEE SPECS
3. NON-PRESSURE LATERAL LINE PER LEGEND
4. PRESSURE SUPPLY LINE PER LEGEND
5. DIRECT BURIAL, LOW VOLTAGE CONTROL WIRES (ID1BLU) - INSTALL BELOW PRESSURE SUPPLY LINE. BUNDLE AND TAPE WIRES AT 12' O.C. LOOP CONTROL WIRES AT ALL 90 DEGREE CHANGES IN DIRECTION. SPLICING OF WIRE RUNS IS NOT ALLOWED UNLESS APPROVED BY THE OWNER. 14 AWG WIRE FOR FLOW SENSOR AND MASTER VALVE SHALL BE INSTALLED IN A CONTINUOUS ELECTRICAL PVC CONDUIT.
6. MAINLINE SHALL BE INSTALLED ON A 6" SAND BED AND COVERED BY 6" OF SAND PRIOR TO ANY OTHER BACKFILL MATERIAL.
7. 6" MIN. CLEARANCE FROM HARDSCAPE (MAINLINE ONLY)
8. INSTALL CHRISTY'S 3" BLUE IRRIGATION LINE MARKING TAPE DIRECTLY ABOVE MAINLINE.

I8 TRENCHING

NOT TO SCALE



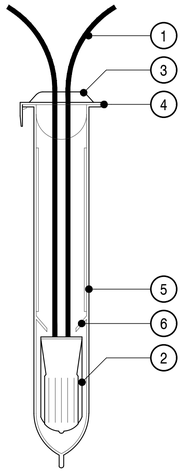
1. BACKFILL TRENCH PER SPECIFICATIONS
2. CONCRETE THRUST BLOCK (TYPICAL)
3. MAINLINE PIPING PER IRRIGATION LEGEND
4. NATIVE SOIL



NOTES:
A. USE CONCRETE THRUST BLOCKS ON ALL SOLVENT-WELD MAINLINE PIPE AND FITTINGS.
B. USE JOINT RESTRAINTS ON ALL BELL AND GASKET MAINLINE PIPING WITH PUSH-ON FITTINGS.
C. CONCRETE THRUST BLOCKS SHALL BE A MINIMUM OF ONE CUBIC FOOT IN VOLUME. CONCRETE THRUST BLOCKS SHALL NOT ENCASE THE FITTINGS IN CONCRETE.
D. ALL MAINLINE PIPING SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND PRESSURE TESTED PER THE PLAN NOTES OR SPECIFICATIONS.
E. THE DEPTH AND WIDTH OF ALL TRENCHES SHALL BE PER THE SPECIFICATIONS.
F. ALL MAINLINE PVC FITTINGS THAT ARE IN CONTACT WITH CONCRETE THRUST BLOCKS SHALL BE COVERED WITH BLACK PLASTIC PIPE WRAP.
G. ALL CONCRETE USED FOR THRUST BLOCKS SHALL BE 470-C-2000.

I9 THRUST BLOCKING FOR MAINLINE

NOT TO SCALE



SECTION / ELEVATION

1. LOW VOLTAGE WIRES - 4 MAXIMUM
2. SCOTCHLOK ELECTRICAL SPRING CONNECTOR - WIRES SHALL BE PRE-STRIPPED OF 3/4" OF THE INSULATION PRIOR TO INSERTION INTO THE CONNECTOR - TWIST CONNECTOR ONTO WIRES TO SEAT FIRMLY.
3. WIRES PASS THROUGH GROOVES IN TUBE LID TO ALLOW LID TO CLOSE. INSERT SCOTCHLOK CONNECTOR AND WIRES INTO TUBE UNTIL THE CONNECTOR PASSES THE LOCK TABS AND RESTS ON THE BOTTOM.
4. CLOSE TUBE LID AFTER WIRE IS INSERTED INTO TUBE.
5. POLY TUBE PRE-FILLED WITH MOISTURE-RESISTANT GREASE.
6. LOCK TABS PREVENT WIRE REMOVAL ONCE CONNECTOR IS INSERTED.

NOTES:
WIRE CONNECTOR SHALL BE A 3M DBR/Y-6 DIRECT BURY SPLICE KIT.

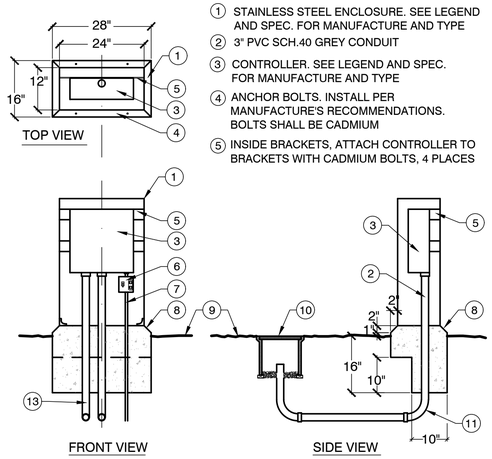
KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A UV-RESISTANT POLYPROPYLENE TUBE AND A MOISTURE-RESISTANT SEALING GEL. TUBE SHALL BE SUPPLIED PRE-FILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTOR.

NOTES:
INSTALL PER HUNTER INDUSTRIES SPECIFICATIONS. CONTRACTOR SHALL CONTACT HUNTER SPECIFICATION MANAGER, CHRIS ROESINK, AT 760.703.2474 AND SHALL SCHEDULE PRE-CONSTRUCTION MEETING TO REVIEW INSTALLATION DETAILS AND SPECIFICATIONS IN FIELD.

I10 WIRE CONNECTOR

NOT TO SCALE



1. STAINLESS STEEL ENCLOSURE. SEE LEGEND AND SPEC. FOR MANUFACTURE AND TYPE
2. 3" PVC SCH.40 GREY CONDUIT
3. CONTROLLER. SEE LEGEND AND SPEC. FOR MANUFACTURE AND TYPE
4. ANCHOR BOLTS. INSTALL PER MANUFACTURE'S RECOMMENDATIONS. BOLTS SHALL BE CADMIUM
5. INSIDE BRACKETS, ATTACH CONTROLLER TO BRACKETS WITH CADMIUM BOLTS, 4 PLACES
6. POWER ON-OFF SWITCH WITH NEMA-3 GFI PLUG/SWITCH BOX WITH STAINLESS STEEL COVER PLATE
7. 3/4" SCH.40 GRAY FLUID TIGHT CONDUIT
8. CONCRETE FOUNDATION
9. FINISH GRADE
10. PULL BOX
11. 90 DEG. SWEEP ELL
12. 3" PVC. SCH. 40 CONDUIT
13. GROUNDING WIRE CONDUIT, MIN. 1-1/2". GROUND PER ASIC GUIDELINES

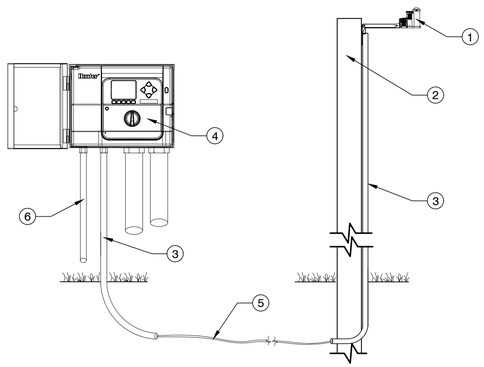
NOTES:
INSTALL PER HUNTER INDUSTRIES SPECIFICATIONS. CONTRACTOR SHALL CONTACT HUNTER SPECIFICATION MANAGER, CHRIS ROESINK, AT 760.703.2474 AND SHALL SCHEDULE PRE-CONSTRUCTION MEETING TO REVIEW INSTALLATION DETAILS AND SPECIFICATIONS IN FIELD.

NOTES:
INSTALL WITH HUNTER SOLAR SYNC.

NOTES:
INSTALL ALL WIRES CONNECTING MASTER VALVE AND FLOW SENSOR TO THE CONTROLLER IN A CONTINUOUS CONDUIT.

I11 IRRIGATION CONTROLLER IN ENCLOSURE

NOT TO SCALE



1. MODEL: SOLAR SYNC SENSOR
2. METAL POLE. MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
3. CONDUIT FOR SOLAR SYNC COMMUNICATION WIRE, TO CONTROLLER OR 12" BELOW GRADE
4. HUNTER I-CORE CONTROLLER
5. COMMUNICATION WIRE, 18-2(WIRE TYPE TO MEET INSTALLATION CODE REQUIREMENTS), FROM MODULE TO SENSOR. MAXIMUM TOTAL WIRE DISTANCE, 200 FEET
6. POWER SOURCE

NOTES:
INSTALL PER HUNTER INDUSTRIES SPECIFICATIONS. CONTRACTOR SHALL CONTACT HUNTER SPECIFICATION MANAGER, CHRIS ROESINK, AT 760.703.2474 AND SHALL SCHEDULE PRE-CONSTRUCTION MEETING TO REVIEW INSTALLATION DETAILS AND SPECIFICATIONS IN FIELD.

NOTE: DETAIL PROVIDED BY HUNTER INDUSTRIES.

I12 RAIN SENSOR MOUNTING DETAIL

NOT TO SCALE

L-18

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APPROVED BY: ENGINEER DATE

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APPROVED BY: ENGINEER DATE

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TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · 2574 · STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

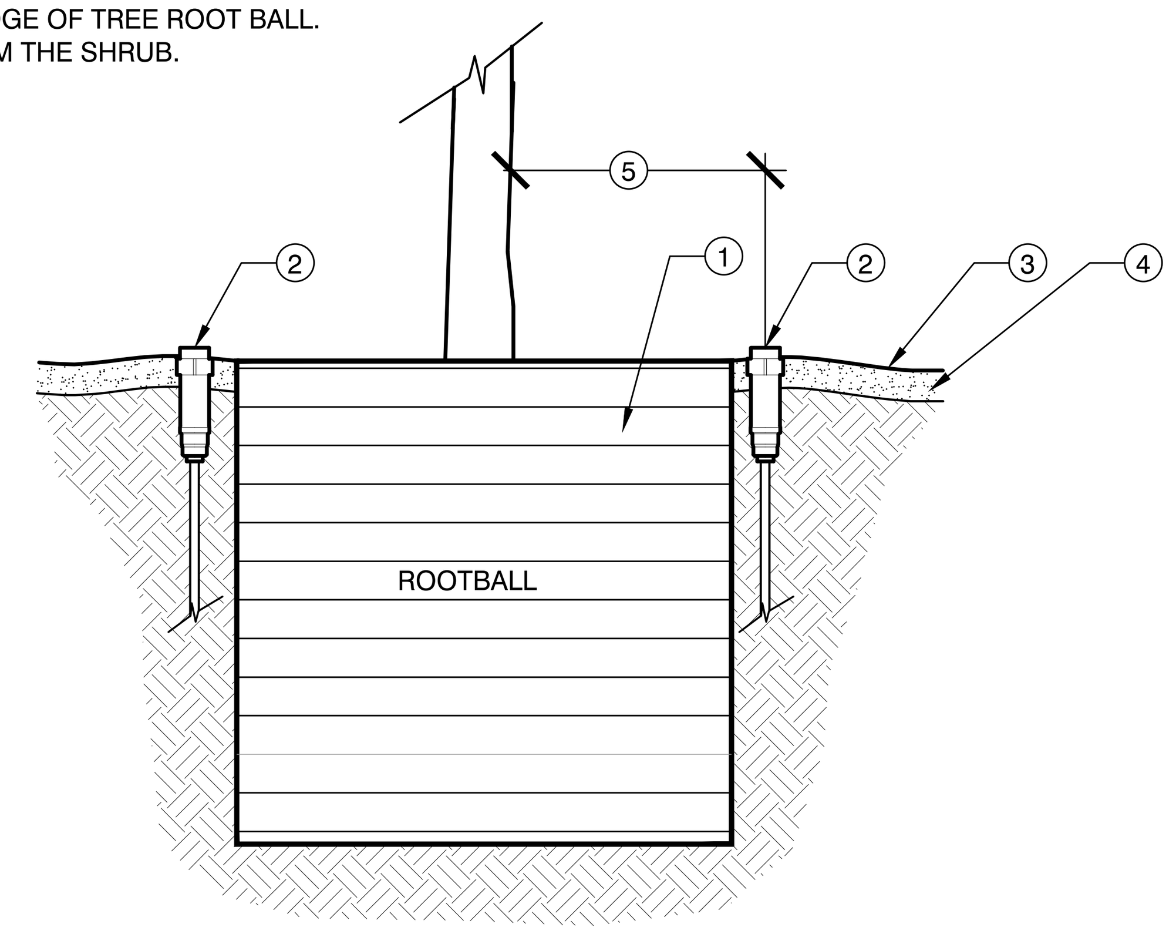
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION DETAILS

SHEET: 75 OF 145

BID DELIVERABLE

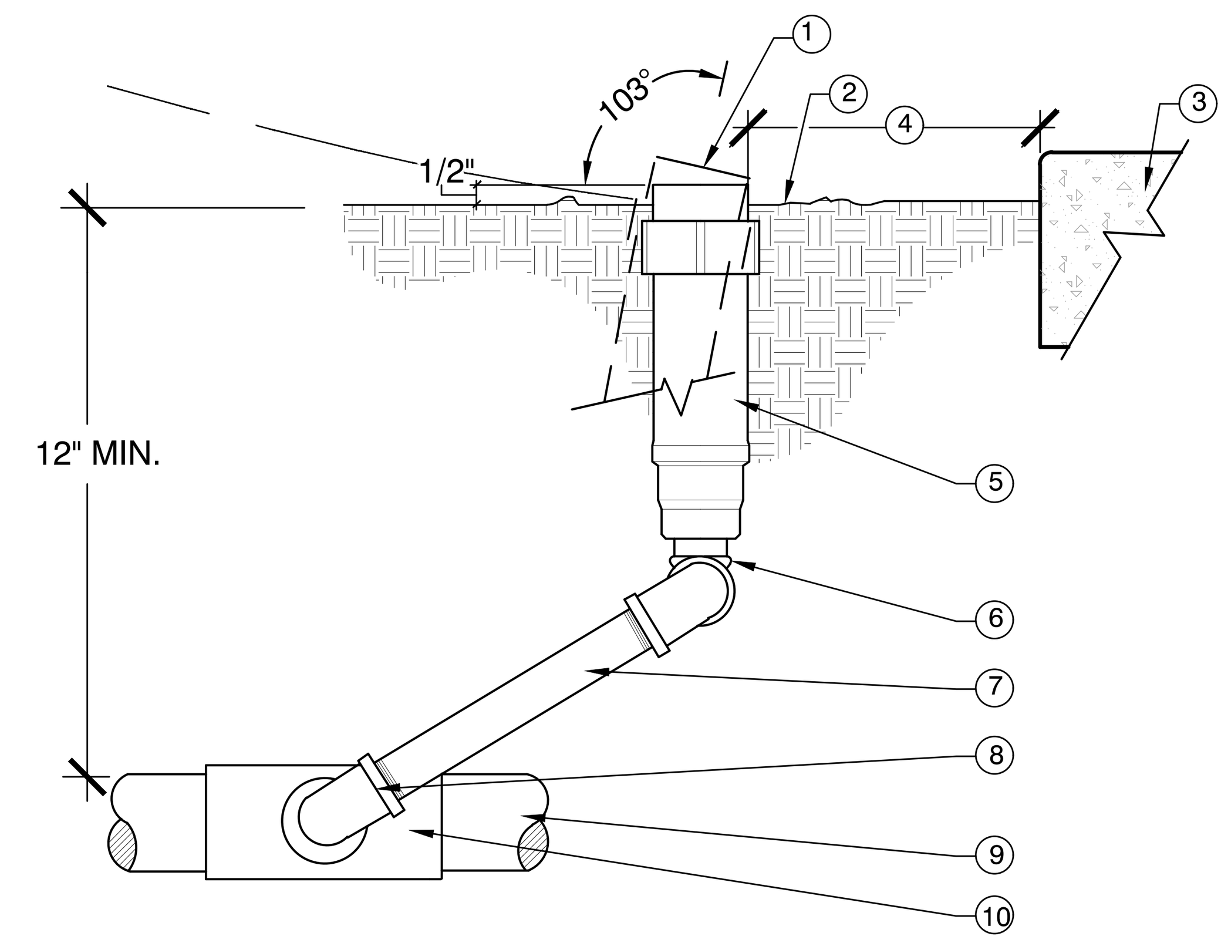
1. TREE OR SHRUB ROOT BALL
2. BUBBLER HEAD ASSEMBLY ON A 6" POP-UP BODY (2 PER TREE AND 1 PER SHRUB). SEE POP-UP SPRAY HEAD DETAIL. INSTALL AT THE EDGE OF ROOT BALL. SEE LEGEND FOR NOZZLE AND BODY TYPE.
3. FINISH GRADE
4. 3" LAYER OF DECOMPOSED GRANITE
5. INSTALL BUBBLER HEAD ASSEMBLY AT FOLLOWING DISTANCE FROM THE TREE TRUNK AND SHRUB:
   1. TREE LOCATION - INSTALL AT THE EDGE OF TREE ROOT BALL.
   2. SHRUB LOCATION - INSTALL 12" FROM THE SHRUB.



I13 TREE AND SHRUB BUBBLER INSTALLATION

NOT TO SCALE

1. INSTALL SPRAY HEAD AT ANGLE FOR MAX. THROW IF IRRIGATING SLOPES
2. FINISH GRADE OF SOIL OR MULCH WHERE OCCURS
3. PAVING OR STRUCTURE
4. SPRAY HEADS: 4" FROM WALKS AND CURBS 8" FROM STRUCTURES
5. POP-UP SPRINKLER/MP ROTATOR WITH BUILT-IN CHECK VALVE
6. 1/2" MARLEX STREET ELL (MIPT X FIPT)(2)
7. 1/2" SCH. 80 PVC THREADED 6" NIPPLE
8. 1/2" MARLEX STREET ELL (MIPT x FIPT)
9. PVC LATERAL LINE
10. SCH. 40 PVC S X S X FIPT TEE OR ELL



NOTE:
1. Contractor shall install additional anti-drain valves, as required, to prevent low head drainage
2. Use bottom inlet only
3. Use Teflon Tape on all PVC to PVC connections; no pipe dope allowed.

I14 POP-UP SPRAY HEAD

NOT TO SCALE

I15 NOT USED

I16 NOT USED

I17 NOT USED

I18 NOT USED

L-19

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LANDSCAPE ARCHIITECT OF WORK:
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RONALD S. TESHIMA 02/01/24 DATE

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LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA STATE OF CALIFORNIA
Signature
6-30-24 Renewal Date
2-1-24 Date

DRAWN BY: MS
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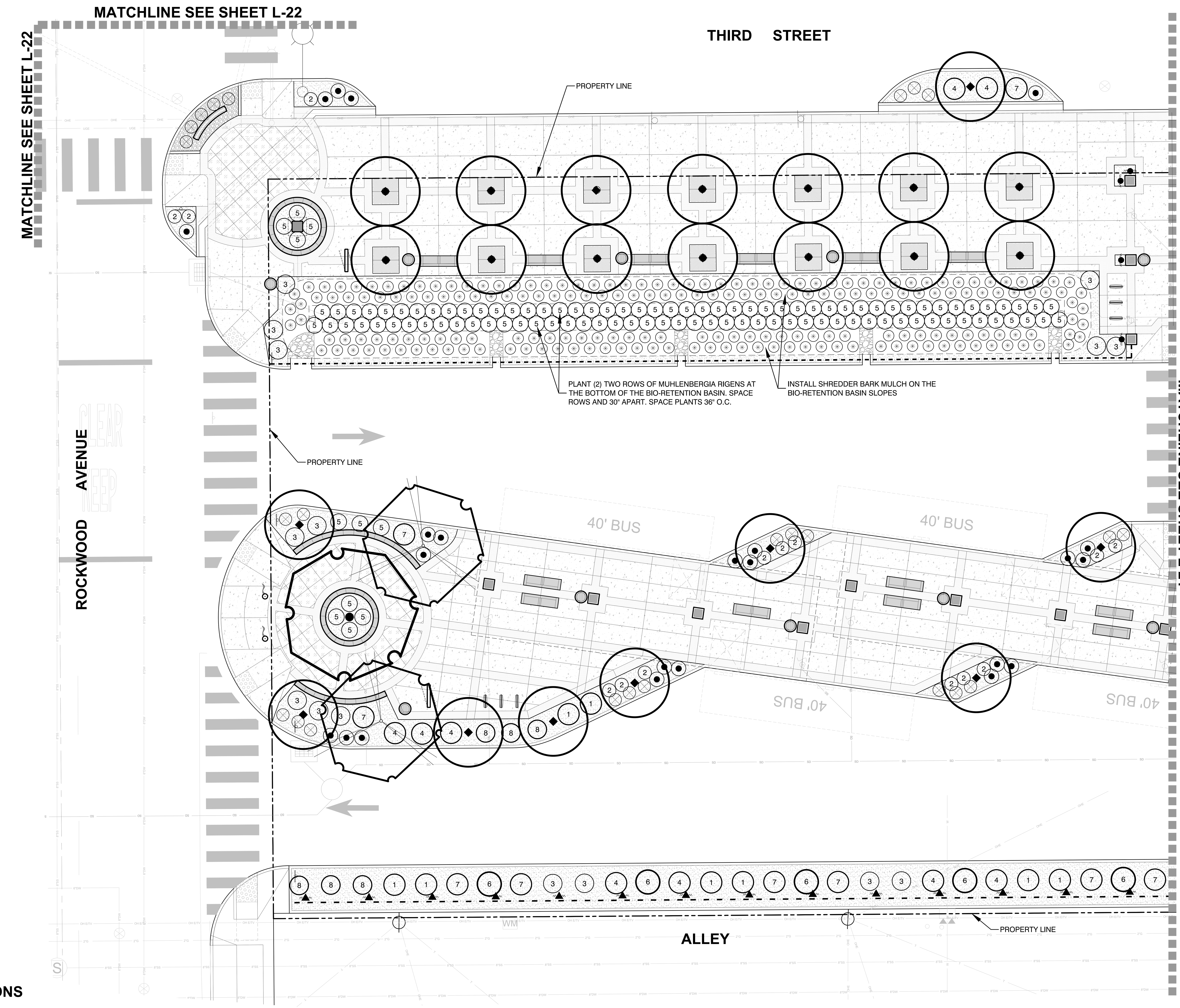
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

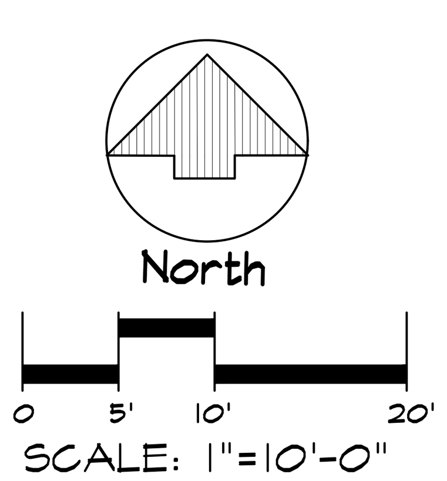
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
IRRIGATION DETAILS

SHEET:
76
OF
145

BID DELIVERABLE





SEE SHEET L-23 FOR PLANT LIST
SEE SHEET L-23 FOR PLANTING NOTES
SEE SHEET L-24 FOR PLANTING DETAILS
SEE BOOK SPECIFICATIONS FOR PLANTING SPECIFICATIONS

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9903 BUSINESSPARK AVE. SUITE 101 • SAN DIEGO, CA 92131
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RONALD S. TESHIMA 02/01/24 DATE

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LICENSED LANDSCAPE ARCHITECT
RONALD S. TESHIMA
STATE OF CALIFORNIA

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PROJECT: ICTC
FILE NAME:
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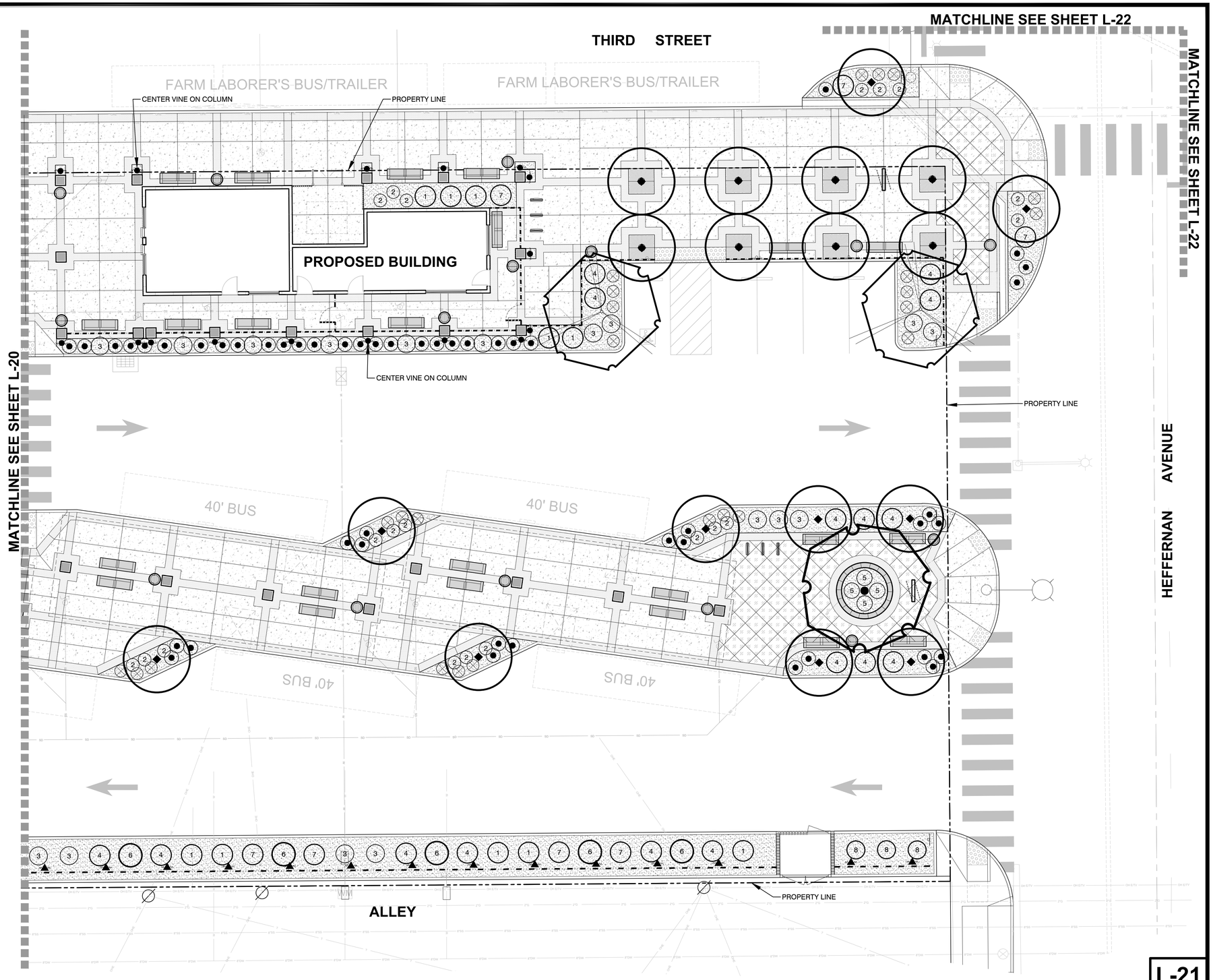
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLANTING PLAN

L-20

SHEET:
77
OF
145

BID DELIVERABLE



North

0 5' 10' 20'

SCALE: 1"=10'-0"

SEE SHEET L-23 FOR PLANT LIST
SEE SHEET L-23 FOR PLANTING NOTES
SEE SHEET L-24 FOR PLANTING DETAILS
SEE BOOK SPECIFICATIONS FOR PLANTING SPECIFICATIONS

L-21

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TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

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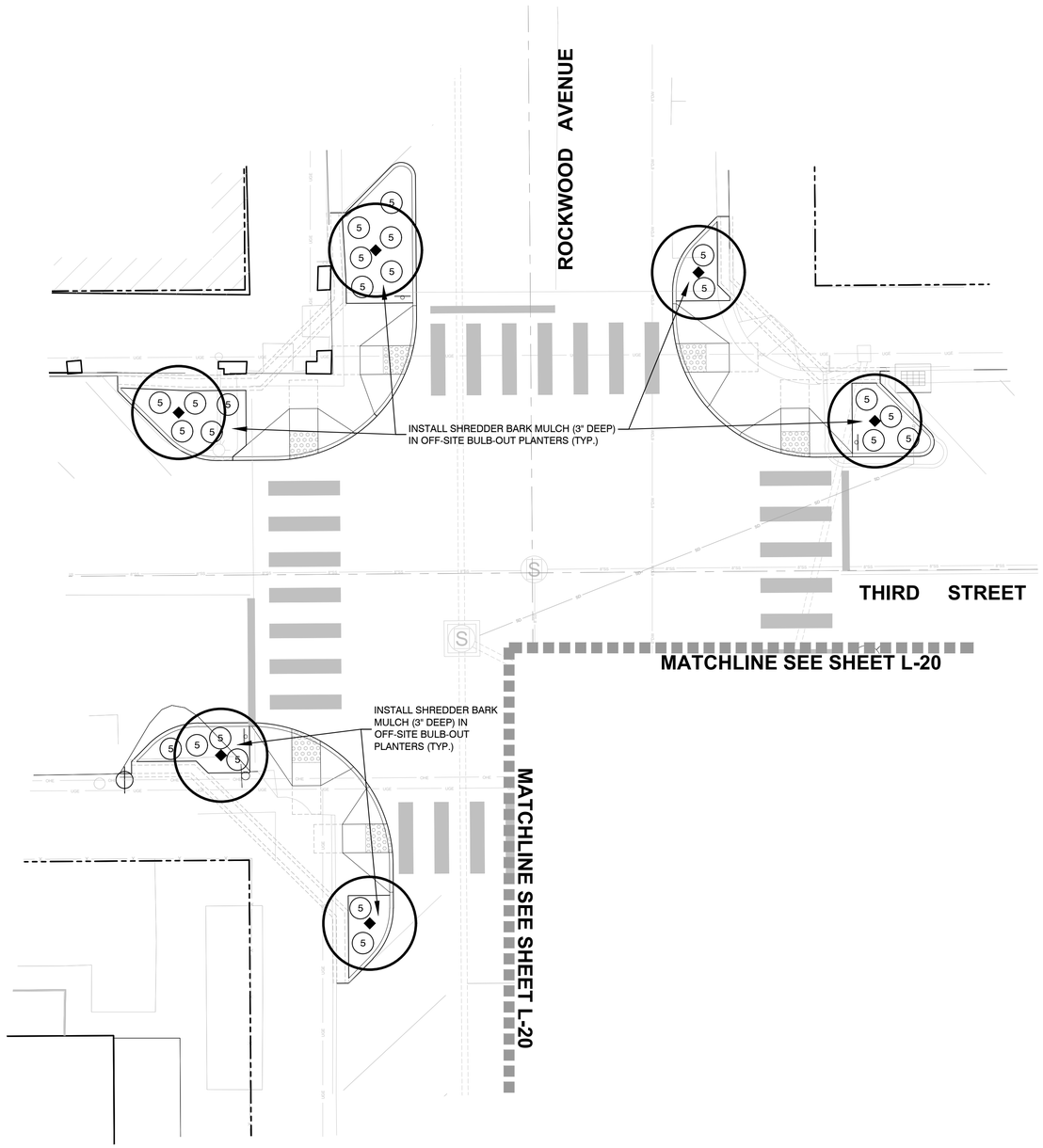
LAST REVISED:

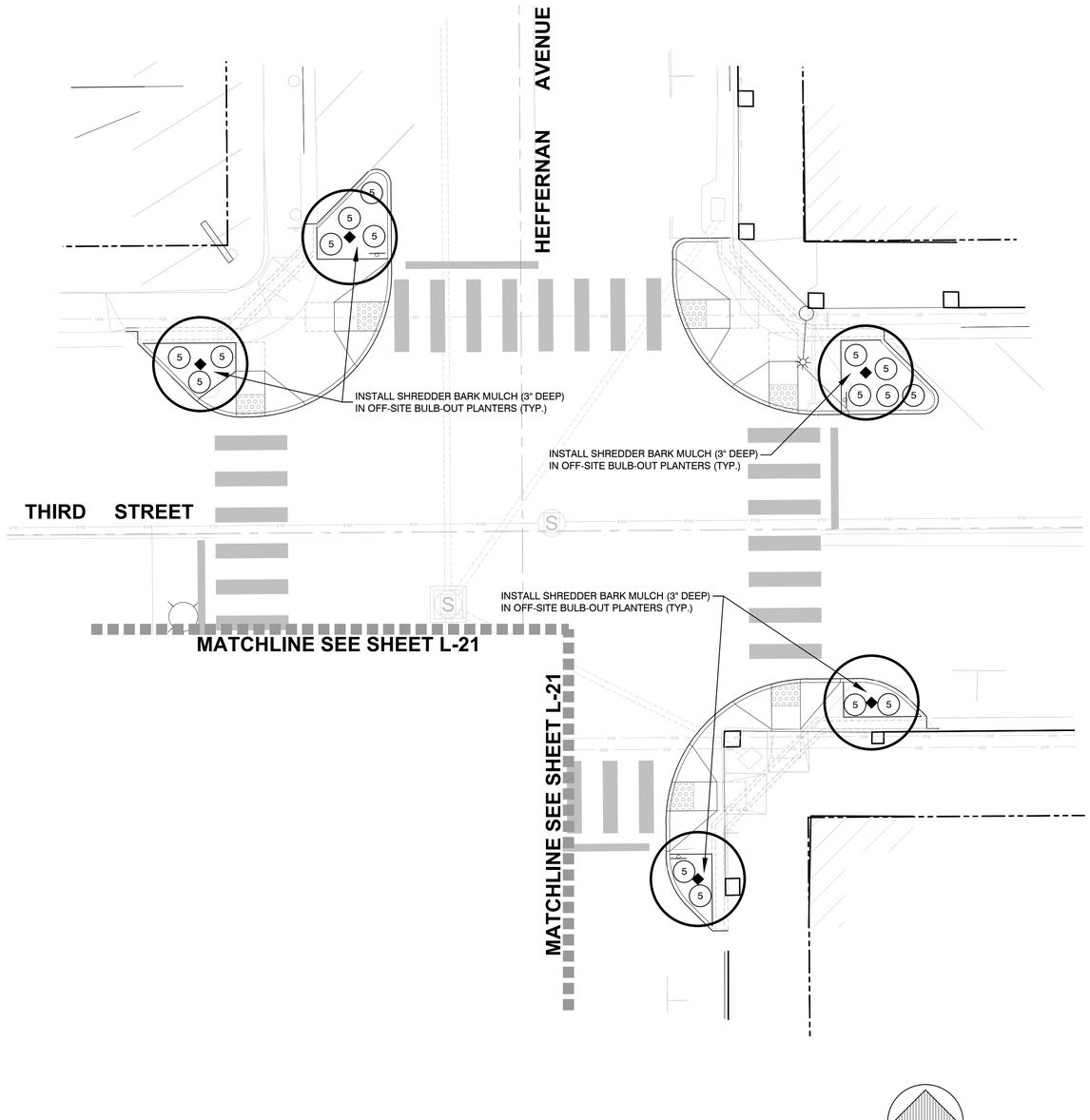
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

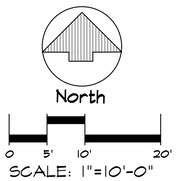
SHEET TITLE:
PLANTING PLAN

SHEET: 78 OF 145

BID DELIVERABLE







SEE SHEET L-23 FOR PLANT LIST
SEE SHEET L-23 FOR PLANTING NOTES
SEE SHEET L-24 FOR PLANTING DETAILS
SEE BOOK SPECIFICATIONS FOR PLANTING SPECIFICATIONS

L-22

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TESHIMA DESIGN GROUP
LANDSCAPE ARCHITECTURE · LAND PLANNING
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TDG JOB NO. 18-12
RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT · RONALD S. TESHIMA · No. 2524 · STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLANTING PLAN

SHEET: 79 OF 145

BID DELIVERABLE

PLANTING NOTES

1. CONTRACTOR SHALL HAVE A THOROUGH STANDARD SOIL TEST PERFORMED IN **THREE** DIFFERENT LOCATIONS ON THE SITE AND COMPLETED BY A **HELENA AGRI-ENTERPRISES, LLC (CONTACT ANDREW NICKUS AT 760-550-1102)** OR EQUIVALENT PRE-APPROVED BY THE CITY INSPECTOR PRIOR TO AND AFTER LEACHING OF SALTS AND PRIOR TO ANY PLANTING OF PLANT MATERIAL. THE SOILS TEST SHALL INCLUDE, BUT NOT BE LIMITED TO, THE TESTING OF SOIL SALT LEVELS, NUTRIENT LEVELS, AND SOIL PERCOLATION. SOIL TEST RESULTS SHALL BE APPROVED BY THE CITY INSPECTOR PRIOR TO AMENDING THE SOIL. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AMENDMENTS AND FERTILIZERS AT THE LEVEL INDICATED IN THE SOILS TEST REPORT. **CONTRACTOR TO PROVIDE A COPY OF THE SOIL TEST AND AMENDMENTS TO LANDSCAPE ARCHITECT.**
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCING LANDSCAPE INSTALLATION.
3. ALL LANDSCAPE AND IRRIGATION INSTALLATION SHALL CONFORM AND FULLY COMPLY WITH THE CITY OF CALEXICO STANDARDS.
4. ALL LANDSCAPING SHALL BE INSTALLED PRIOR TO OCCUPANCY.
5. ALL PLACEMENT OF PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
6. ROOT BARRIERS SHALL BE INSTALLED WITH ALL TREES THAT ARE WITHIN FIVE (5) FEET OF ANY HARDSCAPE. INSTALL ROOT BARRIERS ADJACENT, AND PARALLEL TO, EDGE OF HARDSCAPE. BARRIERS SHALL BE FIVE (5) FEET IN LENGTH MINIMUM ON EACH SIDE OF TREE AND 19.5" DEEP. ROOT BARRIERS WILL NOT BE WRAPPED AROUND THE ROOTBALL. ROOT BARRIER SHALL BE BIO-BARRIER.
7. CONTRACTOR TO INSTALL 3" OF DECOMPOSED GRANITE IN ALL LANDSCAPE AREAS EXCEPT BIO-RETENTION AREA. INSTALL CRUSHED ROCK ADJACENT TO SIGNAGE MONUMENT. SEE HARDSCAPE PLAN. INSTALL 3" ON SHREDDED BARK MULCH IN THE BIO-RETENTION AREA AND OFF-SITE BULB OUT PLANTERS.
8. ALL PLANT MATERIAL SHALL BE APPROVED AT THE PROJECT SITE BY THE LANDSCAPE ARCHITECT PRIOR TO ANY PLANTING. ALL PLANT MATERIAL REJECTED BY THE CITY OR LANDSCAPE ARCHITECT SHALL BE REMOVED FROM THE PROJECT SITE AT NO ADDITIONAL COST AND REPLACED.
9. SUBMIT PHOTOGRAPHS OF TYPICAL TREE FOR EACH VARIETY AND SIZE, TO BE PROVIDED UNDER THIS CONTRACT FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE PROJECT SITE.
10. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. THIS MAY BE DONE EITHER AT THE SITE OR AT THE NURSERY. CONTRACTOR SHALL PAY FOR THE LANDSCAPE ARCHITECT'S TIME AND MILEAGE FOR ALL NURSERY VISITS.
11. ALL PLANT SIZES ARE MINIMUMS. SIZES ARE TYPICAL FOR EACH PLANT SPECIES. ALL PLANTS ARE TO BE FREE OF DISEASE AND SCARS, AND TO HAVE GOOD COLOR, FULL HEADS AND GOOD CALIPER (15 GALLON - 3/4" MINIMUM, 24" BOX - 1 1/4" MINIMUM, 36" BOX - 2" MINIMUM.
12. PRIOR TO PLANTING, IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL AND ALL PLANTING AREAS SHALL BE FULLY WATERED IMMEDIATELY AFTER PLANTING.
13. PRIOR TO PLANTING, ALL PLANTING AREAS SHALL BE FREE OF WEEDS, ROCKS AND DEBRIS. RAKE AND FINE GRADE ALL PLANTING AREAS PRIOR TO PLANTING. APPLY PRE-EMERGENT HERBICIDE IN ALL AREAS PRIOR TO SPREADING MULCH. SEE WEED ABATEMENT PROGRAM.
14. UPON COMPLETION OF PLANTING OPERATIONS AND BEFORE ANY SITE OBSERVATIONS, REMOVE ALL EXTRANEOUS MATERIAL AND DEBRIS, AND BROOM AND WASH THE AREA CLEAN.
15. LONG TERM MAINTENANCE OF THIS PROJECT SHALL BE PROVIDED BY THE CITY.
16. ALL PLANTS MUST BE CONTAINER GROWN AS INDICATED IN THE PLANT LIST.
17. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
18. ALL TREES MUST BE STAKED AS SHOWN IN THE DETAILS.
19. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION.
20. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
21. CONTRACTOR IS RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
22. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS FOR THE PERIOD OF TIME SHOWN IN SITEWORK SPECIFICATIONS.
23. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD DEFINED IN THE SITEWORK SPECIFICATIONS BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD.
24. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
25. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.
26. DURING THE GROWING SEASON ALL ANNUALS SHALL REMAIN IN A HEALTHY, VITAL CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
27. ALL PLANT MATERIALS QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
28. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS PRIOR TO COMMENCING LANDSCAPE INSTALLATION.
29. THE CONTRACTOR SHALL FINE GRADE ALL PLANTING AREAS, FILLING AS NEEDED OR REMOVING SURPLUS DIRT, REMOVING ROCKS AND DEBRIS OVER 1/2 INCH IN DIAMETER, AND FLOATING TO SMOOTH AND UNIFORM GRADE. ALL AREAS SHALL SLOPE TO DRAIN. ALL SLOPES SHALL BE GRADED TO ELIMINATE WATER AND SOIL RUNOFF ONTO SIDEWALKS AND HARDSCAPE. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE SURFACE DRAINAGE (2% GRADE) AWAY FROM STRUCTURES AND TERMINATING IN AN APPROVED DRAINAGE SYSTEM.
30. MANY OF THE SELECTED TREES, SHRUBS AND GROUNDCOVERS ARE AVAILABLE FROM MOUNTAIN STATES WHOLESALE NURSERY (MSWN) LOCATED IN PHOENIX, AZ. CONTACT WENDY AT 760-539-7099. ALL PLANTS COMING TO CALIFORNIA FROM OTHER STATE WILL REQUIRE AN AGRICULTURAL INSPECTION WHICH IS THE CONTRACTOR'S RESPONSIBILITY. WENDY CAN HELP THE CONTRACTOR WITH THE INSPECTIONS IF NEEDED.
31. ALL PLANTS FOR THIS PROJECT SHALL COME FROM NURSERIES LOCATED IN THE SAME CLIMATE ZONE AS CITY OF CALEXICO. CONTRACTOR SHALL PROVIDE NAME AND LOCATION OF THE NURSERY WITH THE PLANT PHOTO SUBMITTALS FOR APPROVAL BY LANDSCAPE ARCHITECT.

WEED ABATEMENT PROGRAM

Ingredients
1. 50% Fusalade II
2. 50% Glyphosate (Roundup)

Preparation:
Fill the spray tank with the required amount of water, then add above mixture.
Agitate thoroughly at mixing and re-agitate occasionally during use.

Rates:
Above mixture may be used at rates from 3% to 10% volume to volume in water.
Use the lower rates for tank mixing with glyphosate and medium rates when applying alone to weeds less than 6 inches in height. Apply above mixture at the higher rates for weeds greater than 6 inches in height.

Application:
Use a backpack or handheld sprayer or a conventional spray rig. Be sure to thoroughly cover all of the target plants' foliage. Three applications minimum 4 to 5 days apart.

Timing:
For fastest kill, apply on a warm, sunny, day, Do not apply during windy conditions that could carry spray to desirable vegetation in nearby locations.

SEE SHEET L-24 FOR PLANTING DETAILS
SEE BOOK SPECIFICATIONS FOR PLANTING SPECIFICATIONS

PLANT LIST

TREES

CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Prosopis 'Phoenix'	Mesquite	2	48" Box	Multi-Trunk. Full heads, straight trunks and matching. Must submit photos for approval. Trees are available from MSWN. Install Drainage and Double Stake per Detail P2, Sheet L-24. See Details P1 and P3, Sheet L-24. See additional notes below.
	Parkinsonia 'Desert Museum'	Palo Verde	4	36" Box	Multi-Trunk. Full heads, straight trunks and matching. Must submit photos for approval. Trees are available from MSWN. Install Drainage and Double Stake per Detail P2, Sheet L-24. See Details P1 and P3, Sheet L-24. See additional notes below.

NOTE: ALL TREES LOCATED WITHIN 5 FEET OF ANY HARDSCAPE SHALL BE INSTALLED WITH ROOT BARRIER. ROOT BARRIER SHALL BE BIO-BARRIER. SEE DETAIL P3 ON SHEET L-24.

PALMS

CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Washingtonia robusta	Mexican Fan Palm	52	25'-30' B.T.H	All palms shall have equal height and straight trunk at the time of installation. All palms shall be skinned. Contractor shall submit photos. See Detail P5, Sheet L-24.

SHRUBS

CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
1	Leucophyllum frutescens 'Compacta'	Compact Texas Ranger	18	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
2	Pennisetum setaceum 'Rubrum'	Purple Fountain Grass	34	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
3	Hesperaloe parviflora	Red Yucca	32	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
4	Senna artemisiodes	Feathery Cassia	25	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
5	Muhlenbergia rigens	Deer Grass	149	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
6	Yucca rostrata	Beaked Yucca	10	15 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
7	Agave vilmoriniana	Octopus Agave	16	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.
8	Nerium oleander 'Petite Pink'	Dwarf Oleander	9	5 Gallon	Full and bushy. See Detail P1, Sheet L-24. See additional notes below.

VINES

CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Bougainvillea 'San Diego Red'	Bougainvillea	20	5 Gallon	Remove from nursery stake and attach to wall. See Detail P4, Sheet L-24.
	Callaeum macroptera	Feathery Cassia	28	5 Gallon	Remove from nursery stake and attach to Greenscreen. See Detail P4, Sheet L-24.

GROUND COVER

CODE	BOTANICAL NAME	COMMON NAME	QTY	SIZE	NOTES
	Dalea capitata 'Sierra Gold'	NCN	194	1 Gallon	Plant at 24" O.C. See Detail P1, Sheet L-24.
	Lantana 'Yellow Gold'	Yellow Lantana	49	5 Gallon	Plant at 36" O.C. See Detail P1, Sheet L-24.
	Carrisa macrocarpa 'Green Carpet'	Natal Plum	71	5 Gallon	Plant at 30" O.C. See Detail P1, Sheet L-24.

NOTES:
1. MANY OF THE ABOVE LISTED TREES, SHRUBS AND GROUNDCOVERS ARE AVAILABLE FROM MOUNTAIN STATES WHOLESALE NURSERY (MSWN) LOCATED IN PHOENIX, AZ. CONTACT WENDY AT 760-539-7099. ALL PLANTS COMING TO CALIFORNIA FROM OTHER STATE WILL REQUIRE AN AGRICULTURAL INSPECTION WHICH IS THE CONTRACTOR'S RESPONSIBILITY. WENDY CAN HELP THE CONTRACTOR WITH THE INSPECTIONS IF NEEDED.
2. ALL PLANTS FOR THIS PROJECT SHALL COME FROM NURSERIES LOCATED IN THE SAME CLIMATE ZONE AS CITY OF CALEXICO. CONTRACTOR SHALL PROVIDE NAME AND LOCATION OF THE NURSERY WITH THE PLANT PHOTO SUBMITTALS FOR APPROVAL BY LANDSCAPE ARCHITECT.

L-23

NO.	BY:	REVISION COMMENTS

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SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

LANDSCAPE ARCHITECT OF WORK:
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RONALD S. TESHIMA 02/01/24 DATE

SEAL: LICENSED LANDSCAPE ARCHITECT RONALD S. TESHIMA No. 2574 STATE OF CALIFORNIA

DRAWN BY: MS
CHECK BY: RT
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

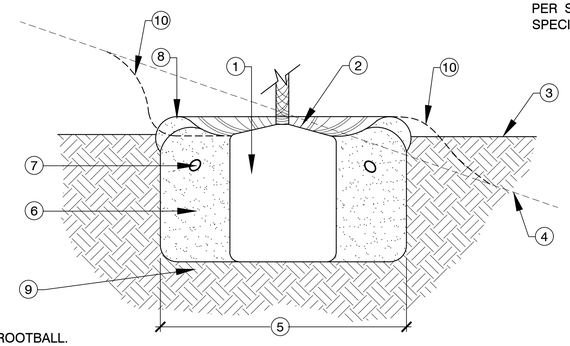
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLANT LIST AND PLANTING NOTES

SHEET: 80 OF 145

BID DELIVERABLE

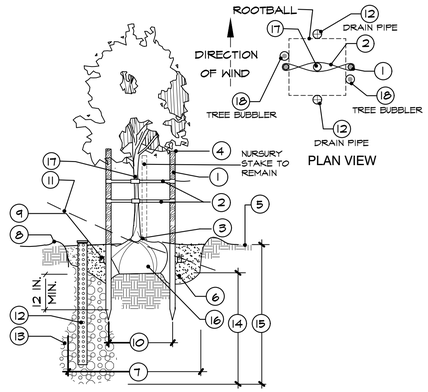
NOTE:
AMEND ALL BACKFILL SOIL PER SOILS REPORT AND SPECIFICATIONS.



1. ROOTBALL.
2. CROWN - 1/2" ABOVE FINISH GRADE.
3. FINISH GRADE.
4. FINISHED GRADE AT SLOPE.
5. 2X ROOTBALL DIAMETER.
6. BACKFILL MIX - REMOVE GRANULAR FILL DOWN TO TOP OF CLAY LAYER AND REPLACE WITH MULCHY SOIL PER SOIL TEST RECOMMENDATIONS AND PLANTING SPECIFICATIONS.
7. PLANT TABLETS (SEE SPECS).
8. 4" HIGH WATERING BASIN (IF REQ'D).
9. UNDISTURBED NATIVE SOIL.
10. FOR ALL SHRUBS AND TREES PLANTED ON THE SLOPE THE REAR AND FRONT OF THE PLANTING PIT SHALL BE GRADED TO 1:1 SLOPE.

P1 TREE / SHRUB / GROUNDCOVER PLANTING

NOT TO SCALE

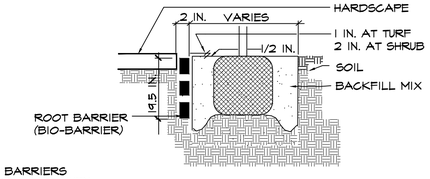


1 - (2) 2 IN. DIA. X 10 FT. LONG LODGEPOLE PINE STAKES, SET PERPENDICULAR TO PREVAILING WINDS.
2 - VINYL TREE TIE (2 req'd per stake), OR EQUAL. INSTALL AT POINT 6" ABOVE WHERE TREE TRUNK WILL BE HELD UPRIGHT AND NOT BEND OVER. INSTALL PER MANUFACTURE'S SPECIFICATIONS.
3 - SET CROWN 2 IN. ABOVE FINISH GRADE.
4 - CUT TOP SECTION OFF OF STAKE 6" BELOW TREE CANOPY.
5 - FINISH GRADE.
6 - BACKFILL(SEE SPEC.) PUDDLE AND SETTLE. SET TREE 2 IN. ABOVE FIN. GR.
7 - 2 X ROOTBALL DIAMETER.
8 - 3 IN. WATERING BASIN, EXCEPT IN LAWN AREAS. REMOVE AFTER MAINT. PERIOD.
9 - PLANT TABLETS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
10 - PLACE STAKES OUTSIDE OF ROOTBALL.
11 - FIN. GRADE AT EXISTING SLOPE (AS REQ'D).
12 - 4" PERFORATED PIPE W/BLACK ROUND GRATE CAP - 5' MIN TO 7' MAX. LENGTH WRAPPED WITH FILTER FABRIC
- 1 PER 15 GALLON TREE
- 2 PER 24", 36" AND 48" BOX TREE
13 - 3/4" GRAVEL DRAINAGE SUMP WITH FILTER FABRIC EDGE
14 - 6'-0" MAXIMUM
15 - 10'-0" MAXIMUM
16 - TREE PIT-FILL AND SETTLE WITH WATER A MIN. OF 24 HOURS PRIOR TO PLANTING.
17 - TREE TRUNK
18 - TREE BUBBLER

NOTE: PROVIDE DOUBLE STAKE TO ALL TREES. CUT STAKE 6' BELOW TREE CANOPY.

P2 TREE DOUBLE STAKING AND DRAINAGE

NOT TO SCALE

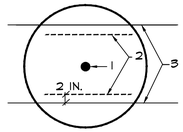


NOTE: ROOT BARRIERS SHALL BE INSTALLED WHEN TREE IS WITH-IN 5 FT. OF ANY HARDSCAPE, AND SHALL BE INSTALLED ADJACENT TO THE HARDSCAPE ONLY PER THE MANUF. SPECIFICATIONS. BIO-BARRIER SHALL BE 19.5" DEEP

NOTE:
WRAP ANY UTILITY LINES LOCATED WITHIN 10-FT. OF TREE OR PALM WITH BIO-BARRIER.

NOTE:
BIO-BARRIER AVAILABLE AT VILLA LANDSCAPE PRODUCTS, PHONE (800) 654-4067.

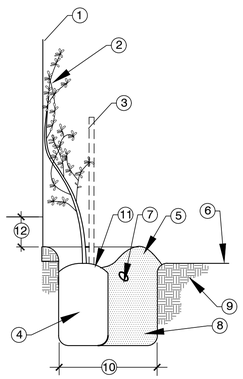
ALLOW 14 DAYS LEAD TIME WHEN ORDERING.



1 - TREE TRUNK
2 - BIO-BARRIER
10' TOTAL LENGTH - 5' EITHER DIRECTION
3 - EDGE OF HARDSCAPE (CURB, PAVING, PAD, ETC.)

P3 ROOT BARRIER

NOT TO SCALE

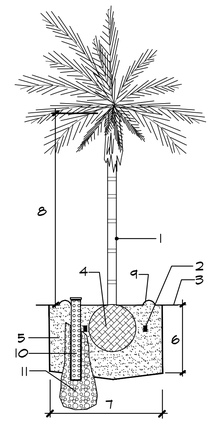


1. WALL OR GREENSCREEN SURFACE.
2. VINE ATTACHED TO SURFACE WITH CLEAR PLASTIC TIES.
3. NURSERY STAKE / ESPALLIER (TO BE REMOVED)
4. SET ROOT BALL TIGHT TO FOOTING. REMOVE ANY EXCESS CONCRETE IF NECCESARY.
5. 4" HIGH WATERING BASIN.
6. FINISH GRADE.
7. PLANTING TABLET - SEE PLANTING SPECIFICATIONS.
8. BACK FILL MIX - REMOVE GRANULAR FILL DOWN TO TOP OF CLAY LAYER AND REPLACE WITH MULCHY SOIL PER SOIL TEST RECOMMENDATIONS AND PLANTING SPECIFICATIONS.
9. UNDISTURBED NATIVE SOIL.
10. PIT DIAMETER - 2 X DIAMETER OF ROOT BALL.
11. CROWN - 1/2" ABOVE FINISH GRADE.
12. MIN. 4" BELOW FINISH FLOOR OF BUILDING.

NOTE:
AMEND ALL BACKFILL SOIL PER SOILS REPORT AND SPECIFICATIONS.

P4 VINE PLANTING

NOT TO SCALE



1 - PALM TRUNK "SKIN" AS REQ'D WITH APPROVED METHOD
2 - PLANT TABLETS. SEE SPECS
3 - FINISH GRADE
4 - ROOTBALL
5 - BACKFILL 100% WASHED PLASTER SAND. REMOVE GRANULAR FILL DOWN TO TOP OF CLAY LAYER AND REPLACE WITH PER SOIL TEST RECOMMENDATIONS AND PLANTING SPECIFICATIONS.
6 - 4 FEET MINIMUM
7 - 7'XT' DIAMETER
8 - BROWN TRUNK HEIGHT
9 - WATERING BASIN
10 - 4" PERFORATED PIPE W/BLACK ROUND GRATE CAP - 5' MIN TO 8' MAX LENGTH WRAPPED WITH FILTER FABRIC
11 - 3/4" GRAVEL DRAINAGE SUMP WITH FILTER FABRIC EDGE
12 - FRONDS - TIE W/ SINGLE STRAND OF ORGANIC MATERIAL UNITE AT END OF MAINT. PERIOD

NOTE: ALL BACKFILL TO BE WATER JETTED DURING PLANTING FOR MAXIMUM STABILITY.

NOTE:
AMEND ALL BACKFILL SOIL PER SOILS REPORT AND SPECIFICATIONS.

P5 PALM PLANTING

NOT TO SCALE

L-24

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CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLANTING DETAILS

SHEET: 81 OF 145

BID DELIVERABLE

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONDITIONS. REFER TO THE TYPICAL DETAIL SHEETS FOR TYPICAL DETAILS OF CONSTRUCTION. TYPICAL DETAILS APPLY TO ALL CONSTRUCTION UNLESS SPECIFICALLY NOTED OR SHOWN OTHERWISE. WHERE CONDITIONS REQUIRE MODIFICATIONS OF A TYPICAL DETAIL, THE CONTRACTOR SHALL SUBMIT MODIFIED DETAIL FOR APPROVAL BY THE ENGINEER OF RECORD PRIOR TO FABRICATION AND INSTALLATION. DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE OF SAME NATURE AS THOSE SHOWN FOR SIMILAR CONSTRUCTION.

2. CONTRACTOR SHALL CONSIDER THE PROJECT SPECIFICATIONS A PART OF THE CONTRACT DOCUMENTS. WHERE INFORMATION IS CONFLICTING, SPECIFIC DETAILS SHALL GOVERN OVER TYPICAL DETAILS WHICH SHALL GOVERN OVER THESE NOTES WHICH SHALL GOVERN OVER SPECIFICATIONS.

3. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL DIMENSIONS. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE OMITTED OR NOT CLEAR, CONTACT THE ARCHITECT (ARCH) OR STRUCTURAL ENGINEER OF RECORD (SEOR). ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. DIMENSIONS ARE TO THE FACE OF STUDS, AND TO CENTERLINE OF COLUMNS UNO.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY NOTIFY THE SEOR OF ANY CONFLICTS BETWEEN THE STRUCTURAL DRAWINGS AND OTHER DRAWINGS; OR EXISTING CONDITIONS NOT SHOWN OR DIFFERENT FROM THOSE SHOWN ON DRAWINGS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.

5. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE CONSTRUCTION AND ALL ADJACENT PROPERTIES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR SEOR SHALL NOT INCLUDE OBSERVATION OF THE ABOVE ITEMS.

6. SUBSTITUTION REQUESTS FOR MATERIALS SPECIFIED ON THE STRUCTURAL DRAWINGS MAY BE CONSIDERED WITH MATERIALS HAVING EQUIVALENT OR GREATER CAPACITY AND PERFORMANCE. CURRENT EVALUATION REPORTS AND PRODUCT INFORMATION SHALL BE PROVIDED TO THE STRUCTURAL ENGINEER DEMONSTRATING THE REQUIRED CAPACITY AND PERFORMANCE OF THE MATERIAL TO BE SUBSTITUTED. WRITTEN APPROVAL FROM THE SEOR SHALL BE OBTAINED PRIOR TO THE SUBSTITUTION OF ANY MATERIAL SPECIFIED ON THE STRUCTURAL DOCUMENTS.

7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. THE ARCHITECT, SEOR, AND THE OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.

8. ALL WORK IS NEW (N) UNLESS INDICATED AS EXISTING (E).

9. CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED WHEN PLACED ON THE STRUCTURE SUCH THAT LOADS DO NOT EXCEED DESIGN LIVE LOADS OR RESULT IN AN UNBALANCED CONDITION.

10. REFER TO THE PROJECT SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS AND SUBMITTALS.

STRUCTURAL DESIGN CRITERIA:

1. CODES:
   ALL WORK SHALL BE IN CONFORMANCE WITH THE CALIFORNIA BUILDING CODE (CBC) 2022 EDITION, INCLUDING ALL AMENDMENTS. ALL STANDARDS USED SHALL BE THE LATEST VERSION APPROVED BY THE CODE ENFORCEMENT AGENCY ON THE DATE OF THE PERMIT ISSUANCE UNLESS SPECIFICALLY NOTED OTHERWISE.

2. DESIGN LIVE LOAD

	LOAD
ROOF	20 PSF (REDUCIBLE)

3. WIND DESIGN INFORMATION

RISK CATEGORY = II	Kz = 0.85	Kd =0.85	Kzt = 1.0	
BASIC WIND SPEED Vfm = 100 MPH (3 SEC GUST)			EXPOSURE = C	
INTERNAL PRESSURE COEFF. = +/- 0.18				

4. SEISMIC DESIGN INFORMATION

I = 1.0	RISK CATEGORY = II			SITE CLASS = D	
S_S = 1.5	S1 = 0.6	SDS = 1.0	SD1 = 0.68		
SEISMIC DESIGN CATEGORY = D					
ANALYSIS PROCEDURE = EQUIV. LATERAL FORCE PROCEDURE					
HORIZONTAL IRREGULARITIES = N/A					
VERTICAL IRREGULARITIES = N/A					
SLRS : A7: SPECIAL REINF. MASONRY SHEAR WALLS					
Rho = 1.0	R = 5	Cd = 3.5	Ω = 2.5	Cs = 0.2	Vb1 = 46.7k
SLRS : ALL OTHER SELF-SUPPORTING STRUCTURE					
Rho = 1.3	R = 1.25	Cd = 2.5	Ω = 2	Cs = 0.8	Vb2 = 11.3k (HIGH CANOPY)
					Vb3 = 14k (TRELLIS)
					Vb4 = 20.5k (BUS CANOPY)

EXISTING UNDERGROUND UTILITY NOTES:

1. THE ARCHITECT AND ENGINEERS ARE NOT RESPONSIBLE FOR THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THE DRAWINGS. THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES WHICH MAY RESULT FROM HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.

CONTRACTOR RESPONSIBILITY NOTE:

1. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN LATERAL-FORCE-RESISTING SYSTEM, DESIGNATED ON PLANS 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 THE FOLLOWING:

   A. ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS.

   B. ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

   C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS.

   D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

STRUCTURAL OBSERVATIONS:

1. VISUAL OBSERVATIONS WILL BE PERFORMED AT THE DISCRETION OF THE OWNER, ARCHITECT, SEOR, AND AS REQUIRED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE BUILDING CODE.

2. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY THE STRUCTURAL ENGINEER AS TO WHEN EACH MAJOR PHASE OF CONSTRUCTION IS READY FOR OBSERVATION A MINIMUM OF FIVE (5) WORKING DAYS IN ADVANCE.

3. THE FOLLOWING MAJOR PHASES OF CONSTRUCTION REQUIRE A SITE VISIT AND STRUCTURAL OBSERVATION REPORT FROM THE SEOR:

   - FOUNDATION REBAR AND ANCHORS - PRIOR TO POUR OF CONCRETE
   - STRUCTURAL FRAMING - AFTER ERECTION AND PRIOR TO CLOSING IN
   - RAISED FLOOR SLABS AND REBAR - PRIOR TO POUR OF CONCRETE
   - COMPLETION OF THE STRUCTURAL SYSTEM

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NAILING, REINFORCEMENT, WELDS, CONNECTIONS, ETC. ARE VISIBLE FOR OBSERVATION WHEN THE SEOR IS ON SITE AND FOR ANY SCHEDULING DELAYS DUE TO NONCOMPLIANT ITEMS FOUND DURING THE OBSERVATION.

SHEET LIST

TYPICAL ABBREVIATIONS

A.B.	ANCHOR BOLT	JST	JOIST
ABV	ABOVE	KLF	KIPS PER LINEAR FOOT
ADDT'L	ADDITIONAL	KSL	KIPS PER SQUARE FOOT
ADJ	ADJACENT	KSI	KIPS PER SQUARE INCH
A.F.F.	ABOVE FINISH FLOOR	L	ANGLE
ALT	ALTERNATE	LBS	POUND
ARCH	ARCHITECT(URAL)	LFRS	LATERAL FORCE
A.T.R.	ALL THREADED ROD		RESISTING SYSTEM
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BLK'G	BLOCKING	LLV	LONG LEG VERTICAL
BLW	BELOW	LONG.	LONGITUDINAL
BM	BEAM	LP	LOW POINT
BN	BOUNDARY NAILING	LWC	LIGHTWEIGHT CONCRETE
B.O.	BOTTOM OF	MAX	MAXIMUM
BOTT	BOTTOM	M.B.	MACHINE BOLT
BRG	BEARING	MECH	MECHANICAL
B.S.	BOTH SIDES	MFR	MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
C	CAMBER	MTL	METAL
C.I.P.	CAST IN PLACE	(N)	NEW
CJ	CONTROL/	NS	NEAR SIDE OR NON-SHRINK
	CONSTRUCTION JOINT	NTS	NOT TO SCALE
CL	CENTERLINE	NWC	NORMAL WEIGHT CONCRETE
CLR	CLEAR	O.C.	ON CENTER
CMU	CONCRETE MASONRY UNIT	O.F.	OUTSIDE FACE
COL	COLUMN	OH	OPPOSITE HAND
CONC	CONCRETE	OPM	OSHPD PRE APPROVAL OF
CONN	CONNECTION		MANUFACTURER'S
CONT	CONTINUOUS		CERTIFICATION
CP	COMPLETE PENETRATION	OPN'G	OPENING
CSK	COUNTERSINK	PDF	POWDER DRIVEN FASTENER
CTR(D)	CENTER(ED)	PENE	PENETRATION
DB	BAR OR BOLT DIAMETER	PJ	PANEL JOIST
DBL	DOUBLE	PL	PLATE
DC	DEMAND CRITICAL	PLC(S)	PLACE(S)
DEMO	DEMOLITION	PLF	POUND PER LINEAR FOOT
DET	DETAIL	PLYWD	PLYWOOD
DIA	DIAMETER	PREFAB	PREFABRICATED
DIAG	DIAGONAL	PSF	POUND PER SQUARE FOOT
DIM	DIMENSION	PSI	POUND PER SQUARE INCH
DO	DITTO	PT	PRESSURE TREATED OR
DWG	DRAWING		POST TENSION
(E)	EXISITNG	QTY	QUNATITY
EA	EACH	RAD, R	RADIUS
E.F.	EACH FACE	REF	REFERENCE
EJ	EXPANSION JOIST	REINF	REINFORCING
EMBED	EMBEDMENT	REQ'D	REQUIRED
ELEC	ELECTRICAL	SB	SILL BOLT
ELEV	ELEVATION	SC	SAW CUT OR SLIP CRITICAL
EN	EDGE NAILING	SCHED	SCHEDULE
E.O.	EDGE OF	SEOR	STRUCTURAL ENGINEER
EOR	ENGINEER OF RECORD		ON RECORD
EQ	EQUAL	SF	SPREAD FOOTING
EQUIP	EQUIPMENT	SHT'G	SHEATHING
E.S.	EACH SIDE/ EDGE SCREW	SIM	SIMILAR
E.W.	EACH WAY	SLRS	SEISMIC LOAD
EXP	EXPANSION		RESISTING SYSTEM
EXT	EXTERIOR	SMS	SHEET METAL SCREW
FIN	FINISH	SN	SILL NAIL
FLR	FLOOR	S.O.G.	SLAB ON GRADE
FN	FIELD NAILING	SQ	SQUARE
FND	FOUNDATION	SS	STAINLESS STEEL
F.O.	FACE OF	STD	STANDARD
FS	FAR SIDE OR FIELD SCREW	STGRD	STAGGERED
FRM'G	FRAMING	STIFF	STIFFENER
FT	FOOT OR FEET	STL	STEEL
FTG	FOOTING	STRUCT	STRUCTURAL
G	GIRDER	T&B	TOP AND BOTTOM
GA	GAGE	THK	THICK
GALV	GALVANIZED	T.O.F	TOP OF FOOTING
GB	GRADE BEAM	T.O.M.	TOP OF MASONRY
H.A.B.	HEADED ANCHOR BOLT	T.O.S.	TOP OF STEEL
HD	HOLDOWN	TRANS.	TRANSVERSE
HDR	HEADER	TYP	TYPICAL
HGR	HANGER	U.N.O.	UNLESS NOTED OTHERWISE
HK	HOOK	VERT	VERTICAL
HORIZ	HORIZONTAL	W/	WITH
HP	HIGH POINT	W/O	WITHOUT
HS	HIGH STRENGTH	WF	WIDE FLANGE
HSS	HOLLOW STRUCTURAL	WLD	WELDED
	SECTION	WO	WHERE OCCURS
HT	HEIGHT	WP	WORK POINT
IN	INCH	WT	WEIGHT
⌖	REFERENCE ELEVATION OR WORK POINT	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
INT	INTERIOR	⌀	DIAMETER

S-0.1

NO.	BY:	REVISION COMMENTS

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ENGINEER DATE

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RECEP QUINTANILLA No. S4029 Exp. 9/30/24 PROFESSIONAL ENGINEER STRUCTURAL STATE OF CALIFORNIA

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PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
GENERAL NOTES

SHEET:
82
OF
145

BID DELIVERABLE

STRUCTURAL SUBMITTALS:

1. REVIEW OF SHOP DRAWINGS AND SUBMITTALS BY THE SEOR IS FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. THE CONTRACTOR WILL REMAIN RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION, AND FOR CORRECT FITTING OF ALL STRUCTURAL MEMBERS INCLUDING COORDINATION WITH OTHER TRADES.

   A. SHOP DRAWINGS SHALL BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO SCHEDULED FABRICATION AND SHALL CONSIST OF ONLY ONE SET FOR OUR RECORDS AND ONE REPRODUCIBLE SET.

   B. SEOR WILL RETURN THE REPRODUCIBLE SET CLEARLY MARKED WITH COMMENTS. ANY REQUIRED RECORD SET COPIES SHALL BE MADE FROM THIS RETURNED SET.

   C. REPRODUCTION OF STRUCTURAL PLANS & DETAILS FOR SHOP DRAWINGS IS PROHIBITED. SUBCONTRACTOR/FABRICATOR IS TO PROVIDE INDEPENDENTLY CREATED DRAWINGS BASED ON THE STRUCTURAL PLANS AND DETAILS. 2. SHOP DRAWINGS AND SUBMITTALS DO NOT CONSTITUTE CHANGE ORDERS. ANY PROPOSED CHANGES TO THE STRUCTURAL DOCUMENTS MUST BE SUBMITTED IN WRITING AS A REQUEST FOR SUBSTITUTION TO THE ARCHITECT AND SEOR FOR APPROVAL.

3. THE FOLLOWING LIST SUMMARIZES IMPORTANT STRUCTURAL SUBMITTALS FOR THIS PROJECT. REFER TO THE SPECIFICATIONS FOR A COMPLETE LIST AND ADDITIONAL REQUIREMENTS.

GENERAL
REQ'D: QUALIFICATION DATA FOR APPROVED INSTALLERS AND FABRICATORS.
REQ'D: CERTIFICATES OF CONFORMANCE FOR PREFABRICATED MEMBERS.
REQ'D: PROVIDE PRODUCT DATA FOR ALL MANUFACTURED STRUCTURAL PRODUCTS AND ACCESSORIES USED.

CONCRETE FORMWORK
REQ'D: MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR PROPRIETARY MATERIALS INCLUDING FORM COATINGS, MANUFACTERED FORM.
REQ'D: SYSTEMS, TIES AND ACCESSORIES SHOP DRAWINGS FOR FABRICATION AND ERECTION OF FORMWORK AND SHORING.

CONCRETE REINFORCEMENT
REQ'D: MANUFACTURER'S PRODUCT DATA, SPECIFICATIONS AND INSTALLATION PROCEDURES FOR PROPRIETARY MATERIALS AND REINFORCEMENT.
REQ'D: STEEL PRODUCER'S CERTIFICATES OF MILL ANALYSIS, TENSILE AND BEND TESTS .
REQ'D: SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT.

CAST-IN-PLACE CONCRETE
REQ'D: DESIGN MIX FOR EACH CONCRETE MIX.
REQ'D: MATERIAL TEST REPORTS.
REQ'D: MATERIAL CERTIFICATES FOR CEMENT, AGGREGATES AND ADMIXTURES.
REQ'D: MANUFACTURER'S PRODUCT DATA FOR WATERSTOPS, BONDING AGENTS, VAPOR RETARDERS, JOINT FILLER, CURING MATERIALS AND FLOOR.
REQ'D: TREATMENTS SHOP DRAWINGS FOR PROPOSED LOCATIONS OF ADDITIONAL CONSTRUCTION OR CONTROL JOINTS NOT SHOWN ON THE STRUCTURAL PLANS.
REQ'D: MINUTES FROM PREINSTALLATION CONFERENCE.

UNIT MASONRY
REQ'D: DESIGN MIX FOR GROUT.
REQ'D: MATERIAL TEST REPORTS.

STRUCTURAL STEEL
REQ'D: MANUFACTURER'S MILL CERTIFICATES.
REQ'D: MILL TEST REPORTS.
REQ'D: SHOP DRAWINGS FOR FABRICATION AND ASSEMBLY OF MEMBERS.
REQ'D: ERECTION PLAN SEQUENCE AND PROCEDURES.
REQ'D: WELDING PROCEDURE SPECIFICATIONS (WPS).
REQ'D: CERTIFICATES FOR ALL WELDERS VERIFYING CURRENT AWS QUALIFICATIONS.
REQ'D: TEST REPORTS FOR SHOP AND FIELD WELDED AND BOLTED CONNECTIONS.

STEEL DECK
REQ'D: SHOP DRAWINGS INDICATING LAYOUT AND DETAILS.

COLD-FORMED METAL FRAMING
NOT REQ'D: SHOP DRAWINGS INDICATING LAYOUT AND DETAILS.
NOT REQ'D: ENGINEERING CALCULATIONS.

FOUNDATION AND SLAB ON GRADE NOTES:

1. SEE SOILS REPORT BY: LANDMARK CONSULTANTS, INC.
   REPORT NO: LE21050 DATED: APRIL 20, 2021

   SOILS REPORT SHALL BE CONSIDER A PART OF THESE CONSTRUCTION DOCUMENTS.

2. ALLOWABLE VERTICAL BEARING PRESSURE FOR COMPACTED NATIVE CLAY SOIL.
   DEAD LOAD + LIVE LOAD = ... 1,500 PSF (3,000 MAX)
   DEAD LOAD + LIVE LOAD + LATERAL LOAD = ... 1,995 PSF (3,990 MAX)

   ALLOWABLE LATERAL BEARING PRESSURE IS 250 PSF PER FT OF DEPTH
   ALLOWABLE COEFFICIENT OF FRICTION FOR SLIDING: 0.25

3. THE CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS AND CONDITIONS INDICATED IN THE SOIL REPORT. THE GEOTECHNICAL ENGINEER SHALL OBSERVE ALL FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE.

4. SUBSURFACE SOIL PREPARATION:
   A. ALL EXISTING UNDOCUMENTED FILL SHALL BE REMOVED AND RECOMPACTED. ALL TOPSOILS SHALL BE REMOVED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
   B. GEOTECHNICAL ENGINEER SHALL BE RETAINED DURING THE OVEREXCAVATION PROCESS. THE ACTUAL DEPTH OF REMOVAL WILL BE DETERMINED DURING GRADING OPERATIONS.
   C. OFFSITE FILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.

5. SPREAD FOOTINGS ARE CENTERED UNDER WALLS AND COLUMNS, UNO.

6. FOOTING ELEVATIONS ARE NOTED ON THE PLANS AND DETAILS . IN ANY CASE, FOOTINGS SHALL BEAR ON FIRM UNDISTURBED SOIL OR ENGINEERED FILL OR BEDROCK , IN ACCORDANCE WITH THE SOIL REPORT AND DETAILS SHOWN.

7. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.

8. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING IS NOT PERMITTED.

9. ALL TRENCHES SHALL COMPLY WITH APPLICABLE OSHA REQUIREMENTS.

10. ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED WITH NON-EXPANSIVE SOIL BUT NOT BEHIND RETAINING WALLS BEFORE CONCRETE OR MASONRY ATTAINS ITS FULL DESIGN STRENGTH.

11. THE DESIGN OF ALL RETAINING WALLS AND SUBTERRANEAN BUILDING WALLS INDICATED ON THESE DRAWINGS IS BASED ON DRAINED SOILS.

12. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.

13. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.

14. ALL GRADING, FOUNDATION FOOTINGS, AND DRAINAGE PLANS SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER UPON SUBMITTAL. A CERTIFIED LETTER BY THE GEOTECHNICAL ENGINEER IS REQUESTED STATING THAT THE RECOMMENDATIONS CONTAINED WITHIN THE SOILS REPORT HAVE BEEN INCORPORATED INTO THE PROJECT PLANS AND SPECIFICATIONS PRIOR TO CONSTRUCTION.

15. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED.
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.

SHORING AND EXCAVATIONS NOTES:

1. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL TEMPORARY SHORING AND BRACING AS REQUIRED TO SUPPORT EXISTING FRAMING WHERE SUPPORT ELEMENTS (BEAMS, COLUMNS, AND BEARING WALLS) ARE TO BE REMOVED.

2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA CONSTRUCTION SAFETY ORDERS (CAL-OSHA).

3. TEMPORARY CUTS SHALL NOT EXCEED SLOPES RECOMMENDED IN THE SOIL REPORT, NOR THOSE SHOWN ON THE SHORING DRAWINGS FOR CONSTRUCTION OF FOUNDATIONS.

4. THE INSTALLATION OF SHORING AND EXCAVATIONS SHALL BE PERFORMED UNDER THE CONTINUOUS INSPECTION AND APPROVAL OF THE GEOTECHNICAL ENGINEER.

5. THE DESIGN OF THE SHORING SYSTEM SHALL BE BASED UPON RECOMMENDATIONS CONTAINED IN THE SOIL REPORT. THE SHORING CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL DATA THEREIN AND SHALL KEEP A COPY OF THE REPORT AT THE JOB SITE AT ALL TIMES.

6. THE STRUCTURAL ENGINEER RESPONSIBLE FOR THE SHORING DESIGN (HEREAFTER CALLED THE SHORING ENGINEER) SHALL MAKE PERIODIC VISITS TO THE JOB SITE FOR THE PURPOSE OF OBSERVING THE INSTALLATION OF THE SHORING SYSTEM. OBSERVATIONS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING:

   A. PRIOR TO THE START OF INSTALLATION, MEET WITH THE GEOTECHNICAL ENGINEER AND SHORING CONTRACTOR TO REVIEW ALL ASPECTS OF THE DESIGN AND INSTALLATION OF THE SHORING.
   B. REVIEW OF CONDITIONS AT COMPLETION OF EXCAVATION. THE CONTRACTOR SHALL NOTIFY THE SHORING ENGINEER AT LEAST 48 HOURS PRIOR TO EACH OF THE ABOVE REQUIRED OBSERVATIONS.

7. CONTROL POINTS SHALL BE ESTABLISHED BY A LICENSED SURVEYOR TO MONITOR ANY HORIZONTAL AND VERTICAL MOVEMENTS OF THE SHORING. INITIAL READINGS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, AND WEEKLY DATA SHALL BE SUBMITTED AS EXCAVATION PROGRESSES AND THROUGHOUT THE CONSTRUCTION PERIOD. ADDITIONAL READINGS SHALL BE OBTAINED WHEN REQUESTED BY THE BUILDING OFFICIAL, SHORING ENGINEER OR GEOTECHNICAL ENGINEER. IF ANY HORIZONTAL OR VERTICAL MOVEMENT OCCURS, THE GEOTECHNICAL ENGINEER, THE SHORING ENGINEER AND THE STRUCTURAL ENGINEER SHALL EVALUATE SUCH MOVEMENT AND RECOMMEND CORRECTIVE MEASURES, IF NECESSARY BEFORE EXCAVATION IS CONTINUED.

STRUCTURAL CONCRETE NOTES:

1. CONCRETE SHALL BE MIXED, PLACED AND CURED IN ACCORDANCE WITH ACI 318, 2019 EDITION, AND PROJECT SPECIFICATIONS.

2. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED SIX FEET. A SUFFICIENT NUMBER OF CHUTES OR TRUNKS SHALL BE USED TO ENSURE THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

3. CONSTRUCTION JOINTS SHALL BE CLEANED AND ROUGHENED BY REMOVING THE ENTIRE SURFACE TO EXPOSE CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX. SLUSH WITH A COAT OF NEAT CEMENT BEFORE PLACING CONCRETE. SEE PLANS AND DETAILS FOR LOCATION AND TYPE OF CONSTRUCTION JOINT. LOCATIONS OF ADDITIONAL CONSTRUCTION JOINTS NOT SHOWN ON THESE PLANS SHALL BE SUBMITTED FOR APPROVAL BY THE EOR PRIOR TO PLACING ANY CONCRETE.

4. STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING DESIGN CRITERIA:

LOCATION	MIN 28-DAY COMP STRENGTH	CONC TYPE[a]	MAX AGGR. SIZE	MAX W/C RATIO	MAX SLUMP[b]	CEMENT TYPE
FOUNDATIONS STEM WALLS, PILASTER	4000 PSI	NWC	1 1/2"	0.45	4"	II / V
SLAB ON GRADE	4000 PSI	NWC	1"	0.45	4"	II / V
CONCRETE WALLS, COLUMNS, AND STRUCTURAL SLABS	4000 PSI	NWC	1 1/2"	0.45	4"	II / V

a. MAXIMUM DRY WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 110 PCF .
b. SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS.

5. CONCRETE MIX DESIGN AND TESTING SHALL MEET THE REQUIREMENTS OF THE BUILDING CODE, AND SPECIFICATIONS. ALL CONCRETE MIXES SHALL BE DESIGNED BY A RECOGNIZED TESTING LAB STAMPED AND SEALED BY A LICENSED CALIFORNIA CIVIL ENGINEER AND SUBMITTED TO THE SEOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT. STRUCTURAL CONCRETE MIXES SHALL CONSIST OF 5 SACK MINIMUM UNO.

6. AGGREGATES IN NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (HARDROCK). AGGREGATES IN LIGHT WEIGHT CONCRETE SHALL CONFORM TO ASTM C-330.

7. COMPRESSIVE STRENGTH TEST REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE SEOR.

8. PORTLAND CEMENT SHALL BE AS NOTED ABOVE FOR ALL CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE SHALL BE SUBMITTED.

9. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 15% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 26.4.3.

10. CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C94.

11. LEAN CONCRETE, WHERE SPECIFICALLY INDICATED, SHALL CONTAIN 2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

12. DRYPACK OR NONSHRINK GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2 TIMES THE SUPPORTING CONCRETE STRENGTH, AND SHALL BE OF FIVE STAR GROUT, SIKA GROUT 212, OR APPROVED EQUAL WITH VALID CODE REPORT (LARR,ICC,ESR,IAPMO ER). FOR THICK GROUT LAYERS FOLLOW MANUFACTURER'S GUIDELINES TO ATTAIN THE REQUIRED STRENGTH, WHICH MAY INCLUDE THE ADDITION OF PEA GRAVEL.

13. DO NOT USE ANY CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX SHALL BE CLEAN AND POTABLE.

14. PRIOR TO ERECTING ANY ELEMENTS THAT LOAD THE FOUNDATION, CONCRETE MUST REACH AN UNCONFINED COMPRESSION STRENGTH OF 2000 PSI MINIMUM AS DETERMINED BY TESTING OR PREVIOUSLY DOCUMENTED DATA FOR THE MIX DESIGN USED UNDER SIMILAR CONDITIONS, AND MUST BE ALLOWED TO CURE FOR A MINIMUM OF 3 DAYS.

15. FOR INTERIOR SLABS-ON-GRADE AND ALL OTHER SLABS RECEIVING ADHERED FLOORING FINISHES (I.E., GLUED, ETC.), THE MAXIMUM W/C RATIO SHALL NOT EXCEED 0.45. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECIEVE FINISHES SHALL BE COMPATIBLE WITH TILE AND ADHESIVES OR GROUTS IN ACCORDANCE WITH MANUFACTURER'S DATA AND BE APPROVED BEFORE USE.

16. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY SEOR.

17. SEE ARCHITECTURAL DRAWINGS FOR WALL OPENINGS, WALL OFFSETS, CHAMFERS, KERFS, DRIPS AND FOR EXTENT OF DEPRESSIONS, RAMPS, ETC. PROVIDE SLEEVES FOR ALL PIPES THROUGH CONCRETE WALLS AND FOOTINGS WHERE SHOWN ON THESE DRAWINGS. CORING IS NOT PERMITTED WITHOUT PRIOR APPROVAL BY THE SEOR.

18. SEE ARCHITECT'S PLANS FOR LOCATIONS OF SLAB SLOPES, DEPRESSIONS, CURBS, DRAINS, NON-STRUCTURAL PARTITIONS AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL PLANS.

19. EXPOSED CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFER, UNO.

20. CONSTRUCTION JOINTS (CJ) AND SAWCUT (SC) JOINTS IN SLABS SHALL OCCUR WHERE LOCATED ON PLANS AND DETAILS. CJ'S SHALL HAVE FORMED POUR STOPS. CONSTRUCTION JOINTS IN WALLS AND FOOTINGS NEED NOT OCCUR AT THE SAME LOCATION, UNO.

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1/31/2024 2:08:48 PM

DRAWN BY: AN & RM
CHECK BY: YN & JA
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
GENERAL NOTES

SHEET:
83
OF
145

BID DELIVERABLE

REINFORCING STEEL NOTES:

1. REINFORCING GRADES FOR CONCRETE OR MASONRY:

ALL BARS EXCEPT THOSE TO BE WELDED	ASTM A615, GRADE 60
TIES AND STIRRUPS	ASTM A615, GRADE 60
WELDED WIRE FABRIC	ASTM A1064
ALL BARS TO BE WELDED	ASTM A706, GRADE 60
ALL BARS IN THE CONCRETE SHEARWALL INDICATED ON WALL ELEVATION INCLUDING SUPPORTING WALL FOOTING LONGITUDINAL BARS (WF), AND ALL GRADE BEAMS (GB)	A706, GRADE 60

2. MAINTAIN MINIMUM CONCRETE COVER FROM FACE OF CONCRETE TO EDGE OF ALL REINFORCEMENT AS FOLLOWS (UNO):
(SEE PLAN/ SECTION FOR CONCRETE W/ FIRE RATING.)

CONDITION	COVER
CONCRETE POURED AGAINST EARTH	3"
CONCRETE POURED IN FORMS AND EXPOSED TO WEATHER OR EARTH	
-#6 BARS AND LARGER	2"
-#5 BARS AND SMALLER	1 1/2"
INTERIOR COLUMNS AND BEAMS	1 1/2"
INTERIOR WALL FACES AND RAISED SLABS	1"
STRUCTURAL SLABS ON GRADE	
-FROM BOTTOM OF SLAB	2"
-FROM TOP OF SLAB	1 1/2"
OTHER CONCRETE NOT EXPOSED TO WEATHER OR EARTH FOR #11 BARS AND SMALLER	1"

PROVIDE THE LARGEST COVER REQUIRED FOR ALL APPLICABLE CONDITIONS. WHERE #3 STIRRUPS OR TIES ARE USED, ENSURE THAT THE COVER FOR LONGITUDINAL BARS IS ADEQUATE.

3. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE". EACH REINFORCING BAR SHALL BE WIRED TO A CROSS BAR AT A MAXIMUM SPACING OF 24" OC. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING IN POSITIONS SHOWN ON THE PLANS.

4. SPLICES IN CONTINUOUS REINFORCEMENT AS USED IN WALLS, FOOTINGS, SLABS, ETC., SHALL HAVE A CLASS "B" LAP (1'-6" MIN) AND THE SPLICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. BARS MAY BE WIRED TOGETHER AT SPLICES OR LAPS EXCEPT FOR TOP REINFORCING OF BEAMS AND SLABS OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.

5. ALL DOWELS, ANCHOR BOLTS AND OTHER HARDWARE TO BE SET IN CONCRETE SHALL BE TIED IN PLACE PRIOR TO PLACEMENT OF CONCRETE. NO WET SETTING, STABBING, RODDING OR OTHER MOVEMENT OF EMBEDDED ITEMS SHALL BE PERFORMED DURING PLACEMENT OF CONCRETE.

6. BEND REINFORCING BARS COLD.

7. STEEL SHALL BE KEPT CLEAN AND FREE OF RUST.

8. DOWELS BETWEEN FOOTING AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE MAIN REINFORCING UNO.

9. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.

10. CHAIRS OR SPACERS FOR REINFORCING SHALL BE NON-FERROUS OR PLASTIC COATED WHEN RESTING ON EXPOSED SURFACES.

MASONRY NOTES:

1. MASONRY UNITS SHALL DEVELOP THE FOLLOWING MINIMUM 28 DAY PRISM COMPRESSIVE STRENGTHS IN ACCORDANCE WITH THE BUILDING CODE:

MINIMUM 28 DAY COMPRESSIVE STRENGH			
LOCATION	fm	TYPE S MORTAR PER ASTM C270	GROUT PER CBC 2103.3
ALL MASONRY U.N.O	2000 PSI	2000 PSI	2000 PSI

2. CONCRETE BLOCK SHALL CONFORM TO ASTM C90 MEDIUM WEIGHT. CLAY BRICK LOCK SHALL CONFORM TO ASTM C652

3. PRISM TEST SHALL BE PERFORMED FOR MASONRY WITH f'm OVER 2000 PSI FOR CBC 2105.5

4. VERTICAL REINFORCING SHALL BE FULL HEIGHT OF WALL AND SHALL BE BRACED AT 6'-8" MAXIMUM TO PREVENT MOVEMENT WHILE GROUTING.

5. HORIZONTAL REINFORCING SHALL BE IN BOND BEAM UNITS AND TIED SECURELY TO VERTICAL REINFORCING.

6. DOWELS, ANCHORS, AND OTHER EMBEDDED ITEMS SHALL BE TIED SECURELY IN PLACE TO PREVENT MOVEMENT WHILE GROUTING. WET SETTING OR STABBING IS NOT ALLOWED.

7. MAXIMUM GROUT LIFTS SHALL NOT EXCEED 8'-0" AND CLEANOUTS AT THE BOTTOM OF ALL CELLS SHALL BE USED UNLESS THE LIFT IS 4'-0" OR LESS. THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING. GROUT FOR EACH POUR SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A BLOCK COURSE EXCEPT AT THE FINAL COURSE. ALL GROUT SHALL BE THOROUGHLY CONSOLIDATED BY VIBRATING IMMEDIATELY AFTER PLACING. SHAKING OR RODDING REBAR IS NOT ALLOWED. FILL ALL CELLS WITH GROUT.

8. BLOCK SHALL BE PLACED IN RUNNING BOND AND SHALL BE 8"x8"x16" NOMINAL UNITS, UNO. WHERE BLOCK IS REQUIRED TO BE PLACED IN STACK BOND (SEE ARCH), OPEN-ENDED UNITS (I.E., "SPEED BLOCK") SHALL BE USED.

9. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SAFETY OF LIFT HEIGHT FOR OPEN ENDED OR FIELD MODIFIED BLOCKS.

10. LAYOUT OF MASONRY BLOCK UNITS SHALL BE RUNNING BOND, U.N.O. BLOCK MODULES/MORTAR JOINTS SHOWN ON THESE DRAWINGS ARE FOR RESENTATION PURPOSES ONLY, AND NOT INTENDED TO SUPERCEDE ARCHITECTURAL DESIGN REQUIREMENTS.

11. WALL REINFORCEMENT SEE PLANS & ELEVATIONS

12. PROVIDE VERTICAL CONTROL JOINTS IN CMU WALLS AS SHOWN ON PLAN. UNLESS NOTED OTHERWISE VERTICAL CONTROL JOINTS SHALL OCCUR AT 25'-0" OC MAXIMUM ALONG WALL LENGTH, AT FOUNDATION STEPS, FLOOR OR ROOF JOINTS, WALL HEIGHT CHANGES, AND 24" MINIMUM PAST ONE SIDE OF OPENINGS > 6'-0" WIDE, UNO ON PLANS

13. WHEN THE AMBIENT TEMPERATURE FALLS BELOW 40°F, OR EXCEEDS 100°F, PROVSIONS OF TMS602 / ACI 530 / ASCE6. ARTICLE 1.8C OR ARTICLE 1.8D SHALL BE IMPLEMENTED.

STRUCTURAL STEEL NOTES:

1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), AS CONTAINED IN THE 15TH EDITION OF "AISC MANUAL OF STEEL CONSTRUCTION".

2. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.

3. PROVIDE THE FOLLOWING MATERIALS FOR STRUCTURAL STEEL UNO:

STRUCTURAL STEEL GRADES:		
A.	ALL WIDE FLANGE SECTIONS	ASTM A992
B.	SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C (F_Y= 50 KSI)
C.	ROUND HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500,GRADE C (F_Y= 46KSI)
C.	PIPES	ASTM A53 TYPE E OR S, GRADE B (F_Y=35 KSI)
E.	PLATES, ANGLES, CHANNELS & TEES	ASTM A36
F.	ALL PLATES PART OF SLRS	ASTM A572, GRADE 50
G.	MACHINE BOLTS (MB)	ASTM A307
H.	HIGH STRENGTH BOLTS (HSB)	ASTM A325 TYPE N, A490
I.	WELDED HEADED STUDS	ASTM A108
J.	THREADED RODS FOR ANCHOR BOLTS	ASTM F1554, GRADE 36

4. 1/8" THICK PLATES AND THICKER SHALL BE GAS CUT OR SAW CUT EXCEPT AS OTHERWISE NOTED, ALL BOLTS SHALL BE HIGH STRENGTH BOLTS. EXCEPT OTHERWISE NOTED, ALL BOLT HOLES SHALL BE STANDARD HOLES.

5. ALL CONNECTIONS NOT SHOWN SHALL CONFORM TO THE "AISC MANUAL OF STEEL CONSTRUCTION" AND SHALL BE SUBMITTED ON SHOP DRAWINGS FOR REVIEW BY SEOR PRIOR TO FABRICATION.

6. ALL WELDED HEADED STUDS, THREADED STUDS, AND DEFORMED BARS SHALL BE NELSON, OR EQUIVALENT, AND WELDED (IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS BY CERTIFIED WELDERS) SO AS TO FULLY DEVELOP THE TENSILE CAPACITY OF THE CONNECTOR.

7. BOLTS WITH UPSET THREADS ARE NOT ALLOWED. USE THE APPROPRIATE NUT AND WASHER TYPE FOR THE SPECIFIED BOLT.

8. ALL STEEL FABRICATION SHALL BE PERFORMED BY A LICENSED FABRICATOR.

9. ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL PERMANENTLY EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION UNLESS A WEATHER PROOF COATING IS SPECIFIED BY THE ARCHITECT UNO. STAINLESS AND WEATHERING STEELS ARE EXCEPTED WHERE SPECIFIED.

10. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, WELDED STUDS OR OTHER ITEMS NOT SHOWN IN THESE DRAWINGS. WHERE STEEL IS EMBEDDED IN CONCRETE OR MASONRY, PROVIDE HOLES AS REQUIRED FOR PASSAGE OF CONTINUOUS REINFORCING BARS WHERE INDICATED ON DRAWINGS. DO NOT CUT HOLES IN STRUCTURAL STEEL WITHOUT PRIOR APPROVAL OF SEOR.

11. ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.

12. PLACE NON-SHRINK OR DRYPACK GROUT UNDER ALL BASE PLATES AND ALLOW TO CURE BEFORE APPLYING LOADS.

13. ALL OPEN HSS ENDS SHALL BE CAPPED. MIN. 1/4" STL CAP. PROVIDE SQUARE WELD ALL AROUND, CAP PLATE TO HSS.

14. FOR STRUCTURAL STEEL, IN ADDITION TO THE REQUIREMENTS OF SPECIFICATION SECTION A3.1c, HOT ROLLED SHAPES WITH FLANGES 1 1/2" THICK AND THICKER SHALL HAVE MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT 70°F. PLATES 2" THICK AND THICKER SHALL HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20FT-LB AT 70°F.

HIGH-STRENGTH BOLT NOTES:

1. SEE STRUCTURAL STEEL NOTES THIS SHEET FOR ADDITIONAL INFORMATION.

2. ALL HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A-325 OR ASTM A-490, NUTS SHALL CONFORM TO ASTM A-563 AND WASHERS SHALL CONFORM TO ASTM F-436.

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT EDITION OF THE "AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". SLIP CRITICAL BOLTS (SC) SHALL BE USED FOR ALL "SEISMIC LOAD RESISTING SYSTEM" (SLRS) MEMBER STEEL-TO-STEEL CONNECTIONS.

4. PAINT SHALL NOT BE PERMITTED ON CONTACT SURFACES UNLESS NOTED OTHERWISE. CONTACT SURFACES OF BOLTED PARTS SHALL BE DESCALED AND FREE OF DIRT, OIL, BURRS, PITS, AND OTHER DEFECTS WHICH PREVENT SOLID SEATING OF PARTS.

5. FAYING SURFACE SHALL BE "CLASS A" FOR SLIP CRITICAL BOLTS (SC).

6. SLIP-CRITICAL JOINT ASSEMBLIES SHALL BE FULLY PRE-TENSIONED BY TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING, INSTALLATION OF ALTERNATE DESIGN BOLTS OR BY DIRECT TENSION INDICATOR TIGHTENING.

WELDING NOTES:

1. WELDING PROCEDURES, ELECTRODES AND WELDER QUALIFICATIONS SHALL CONFORM TO THE "CODE FOR WELDING IN BUILDING CONSTRUCTION", AMERICAN WELDING SOCIETY (AWS), D1.1, D1.8 AND THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

2. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS, AND SHALL BE CERTIFIED FOR THE WORK THEY ARE PERFORMING.

3. PROJECT WELDING SHALL BE PERFORMED ONLY IN ACCORDANCE WITH WELDING PROCEDURE SPECIFICATIONS (WPS) SUBMITTED BY THE CONTRACTOR AND REVIEWED BY THE SEOR AND PROJECT WELDING INSPECTOR. THE WPS SHALL BE IN ACCORDANCE WITH AWS D1.1-D1.4 & D1.8 CURRENT EDITION.

4. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE SEISMIC LOAD RESISTING SYSTEM (SLRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING, AND INSPECTION REQUIREMENTS PER AWS D1.8 AND MUST HAVE A MIN. CVN TOUGHNESS OF 20 FT-LB @ 0°F PER AISC 341 A3.4B
.

5. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LB AT 0°F AND 40 FT-LB AT 70°F. SEE AISC 341-16 SECTION A3.4B FOR ADDITIONAL REQUIREMENTS.

6. WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED PER AWS D1.1 & D1.8 USING E70XX ELECTRODES UNLISS OTHERWISED NOTED.

7. WELDING OF REINFORCING BARS SHALL BE PERFORMED PER AWS D1.4 USING E80XX ELECTRODES.

8. WELDING OF METAL DECK AND LIGHT GAGE STEEL SHALL BE IN ACCORDANCE WITH AWS D1.3.

9. ALL GROOVE OR BUTT WELDS SHALL BE COMPLETE PENETRATION WELDS. ALL EXPOSED BUTT WELDS SHALL BE GROUND SMOOTH.

10. ALL EXPOSED WELDS ON ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL COMPLY WITH AISC CODE OF STANDARD PRACTICE, SECTION 10.

11. FIELD WELDS HAVE BEEN INDICATED WHERE THEY ARE EXPECTED TO OCCUR. THE CONTRACTOR SHALL DETERMINE THE ACTUAL FIELD WELDING NECESSARY TO COMPLETE THE PROJECT AND INCLUDE ALL ASSOCIATED COSTS WITHIN THE BASE BID.

12. ALL WELDS (SHOP AND FIELD) REQUIRE SPECIAL INSPECTION.

13. ALL FULL PENETRATION WELDS SHALL BE ULTRA-SONIC TESTED PER AWS D1.1 & AISC 341 J6.2.

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DRAWN BY: AN & RM
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DATE: 02/01/2024
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FILE NAME:
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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: GENERAL NOTES

SHEET: 84 OF 145

BID DELIVERABLE

COMPLETE JOINT PENETRATION CONNECTION NOTES:

WELDING ELECTRODES
A. SMAW E8018*
B. FCAW E80 SERIES*

* WELD METAL SHALL BE CAPABLE OF DELIVERING A MINIMUM OF 20 FT-LBS AT -0°F AND 40FT-LBS @ 70°F AS MEASURED BY A CHARPY V-NOTCH IMPACT TEST PER AWS D1.1AND D1.8, APPENDIX III.

* BASE METAL FOR STRUCTURAL SHAPES IN SIZE GROUP 4 & 5 W/ t/f > 11/2" SHALL BE CAPABLE OF DELIVERING A MINIMUM OF 20 FT-LBS AT 70°. F AS MEASURED BY A CHARPY V-NOTCH IMPACT TEST PER A.I.S.C. MANUAL OF STEEL CONSTRUCTION, LATEST EDITION.

STRUCTURAL STEEL

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STRUCTURAL WELDING CODE FOR STEEL AWS D1.1-10 AND D1.8.
2. WELDING PROCEDURE SPECIFICATIONS (WPS) SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR THE ENGINEER FOR APPROVAL, PRIOR TO THE BEGINNING OF WELDING OPERATIONS. THE WPS SHALL INCLUDE THE WELDING PARAMETERS RECOMMENDED BY THE ELECTRODE MANUFACTURER. SEE AWS D1.1 APPENDIX E, FORM E-1. JOINT DETAILS TO SUIT EXISTING CONDITIONS. THE WELDING ELECTRODE MANUFACTURER'S SPECIFICATIONS SHALL BE ATTACHED TO THE WPS. ALL WELDERS AND INSPECTORS SHALL BE INFORMED OF THE WPS AND SHALL RETAIN A COPY.
3. SEE AWS FOR PREQUALIFIED SMAW WPS'S.
4. SEE AWS FOR PREQUALIFIED FCAW WPS'S.
5. WELDING TO BE DONE BY WELDERS CERTIFIED BY AWS.
6. ONLY SHIELDED METAL ARC WELDING (SMAW) WITH LOW HYDROGEN ELECTRODES OR FLUX CORE ARC WELDING (FCAW), EITHER GAS SHIELDED OF SELF SHIELDED, SHALL BE USED. FOR SMAW, THE TYPICAL REQUIREMENTS SHALL BE ACCORDING TO NOTE #3 ABOVE. WELDING PROCEDURES SHALL MEET THE REQUIREMENTS OF AWS D1.1 4.6.2, OR SHALL BE QUALIFIED BY TEST. FOR FCAW, THE TYPICAL REQUIREMENTS SHALL BE ACCORDING TO NOTE #4 ABOVE. THE WELDING PROCEDURE SHALL MEET THE REQUIREMENTS OF AWS D1.1 4.14.1.6.
7. INDIVIDUAL WELDS SHALL BE CARRIED CONTINUOUSLY TO COMPLETION BEFORE THE JOINT IS ALLOWED TO COOL BELOW THE MINIMUM SPECIFIED PREHEAT AND INTERPASS TEMPERATURE.
8. AT ALL COMPLETE PENETRATION WELDS, WELD BEADS SHALL BE PEENED AFTER EACH PASS, WITH THE EXCEPTION OF THE ROOT PASS AND THE SURFACES PASSES, AS FOLLOWS: TURN SLAG GUN 90 DEG. AND MAKE A MINIMUM OF 4 PASSES WITH DULL CHISEL.
9. PREHEATING IS REQUIRED ON ALL TACK WELDS NOT INCORPORATED INTO FINAL WELDS. SEE AWS D1.1, SECTION 3.3.7.
10. FOR BEAM FLANGE REINFORCEMENT PLATES, THE ROLLING DIRECTION OF GRAIN SHALL BE INDICATED ON THE PLATE AND INSTALLED SO THAT THE GRAIN DIRECTION IS PARALLEL TO THE LONGITUDINAL AXIS OF THE MEMBER.
11. FULL TIME VISUAL INSPECTION BY AN AWS QC-1 QUALIFIED INSPECTOR IS REQUIRED FOR ALL WELDING.
12. 100% ULTRASONIC WELD TESTING BY THE INSPECTOR IS REQUIRED FOR ALL COMPLETE PENETRATION WELDS.
13. AMPEREAGE, VOLTAGE, POLARITY AND ELECTRODE STICK OUT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH THE ELECTRODE MANUFACTURER'S RECOMMENDATIONS.
14. REMOVE B.U. BARS AND WELD TABS AT ALL FLANGE COMPLETE JOINT PENETRATION (CJP) WELDS AT DUCTILE MOMENT FRAME CONNECTIONS. TYPICAL UNLESS NOTED OTHERWISE.

METAL DECK NOTES (UNFILLED):

1. MATERIAL FOR METAL DECK SHALL HAVE A MIN YIELD STRENGTH OF 50 KSI AND CONFORM TO ASTM A653-SS GRADE 33 WITH GALVANIZED G60 COATING COMPLYING WITH ASTM A525.
2. SEE TYPICAL DETAILS FOR REINFORCING OF DECK AROUND OPENINGS. CONTRACTOR SHALL COORDINATE SIZE AND LOCATIONS OF OPENINGS WITH THE VARIOUS TRADES. NO LOADS SHALL BE HUNG FROM DECK WITHOUT APPROVAL OF SEOR.
3. FLOOR AND ROOF DECK IS DESIGNED FOR UNSHORED CONSTRUCTION, UNO. MAINTAIN 3 SPAN CONDITION WHEREVER POSSIBLE (2 SPAN MIN) EXCEPT AT STAIR LANDING AND WHERE NOTED OTHERWISE ON PLANS.
4. PROVIDE 2" MINIMUM BEARING AT ALL SUPPORTS. END LAPS OF METAL DECK SHALL BE A MINIMUM OF 2" AND SHALL OCCUR ONLY OVER SUPPORTS. DECK SHALL BE LAID OUT SO THAT A LOW FLUTE FALLS ON EACH PARALLEL SUPPORT.
5. INSTALL DECK BY WELDING. USE 3/4" DIAMETER PUDDLE WELDS OR WELDED STUDS TO SUPPORTS SPACED AS SHOWN ON CONSTRUCTION DRAWINGS. SPACING FOR TOP SEAM, SIDE SEAM, BUTTON PUNCH, OR PUNCHLOK CONNECTION SHALL BE IN ACCORDANCE WITH DRAWINGS. SEE TYPICAL METAL DECK DETAILS.
6. SUBMIT SHOP DRAWINGS FOR METAL DECK TO THE SEOR FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL SHOW TYPE OF DECK, LAYOUT OF DECK, THE SIZE AND LOCATION OF ANY OPENINGS OF WIDTH GREATER THAN 1'-0", AND ATTACHMENT METHOD.
7. ALTERNATES TO TYPE OF DECK AND FASTENING MAY BE USED WITH THE APPROVAL OF THE SEOR. DECK PROPERTIES SHALL BE EQUAL TO OR GREATER THAN THOSE SHOWN ON THE PLANS. ANY DECK OR METHOD OF FASTENING SHALL HAVE LATEST EVALUATION REPORT PER CURRENT CODE APPROVING THE DECK FOR THE APPLICATION.
8. METAL DECK WITH CONCRETE FILL SHALL HAVE POSITIVE VENTING. DO NOT EMBED PIPES, SLEEVES, CONDUIT, ETC IN CONCRETE TOPPING UNO.
9. CONCRETE FILL OVER METAL DECK SHALL NOT BE OVER-POURED TO ACHIEVE LEVEL FLOOR.

COLD-FORMED STEEL FRAMING NOTES:

1. DESIGN, FABRICATION AND ERECTION OF COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE SPECIFICATIONS AND STANDARD OF THE AMERICAN IRON AND STEEL INSTITUTE (AISI), AS CONTAINED IN THE "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, INCLUDING ALL APPLICABLE AMENDMENTS.
2. ALL COLD-FORMED STEEL FRAMING SHALL BE ERECTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND LEFT IN PLACE UNTIL OTHER MEANS IS PROVIDED TO ADEQUATELY BRACE THE STRUCTURE.
3. COLD-FORMED STEEL GRADES:
   A. 18 GA (43 MILS) OR THINNER .....ASTM A1003 GRADE 33 (FY = 33 KSI)
   B. 16 GA (54 MILS) AND THICKER .....ASTM A1003 GRADE 50 (FY = 50 KSI)
4. ALL COLD-FORMED STEEL FRAMING SHALL BE BRACED AS REQUIRED BY SECTION D3 OF THE AISI SPECIFICATION.
5. SUBMIT COLD-FORMED STEEL FRAMING SHOP DRAWINGS AND SPECIFICATIONS TO THE SEOR FOR REVIEW PRIOR TO FABRICATION.
6. COLD-FORMED STEEL STUDS AND TRACKS ARE TO BE ATTACHED WITH SHEET METAL SCREWS (SMS) WITH SIZES CALLED OUT ON THE DETAILS. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHOULD NOT BE LESS THAN 3 EXPOSED THREADS. SCREWS ARE TO BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH SCREW MANUFACTURER'S RECOMMENDATIONS.
7. ALL HOLES FOR BOLTS SHOULD BE SHALL BE STANDARD HOLES.
8. GALVANIZED COATING SHALL COMPLY WITH ASTM A924.
9. COLD-FORMED STEEL FRAMING SHALL BE PER STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), ICC ER-3064P.

DESIGN BUILD BRICK VENEER SUPPORT & ANCHORAGE NOTES:

1. BRICK VENEER CONTRACTOR TO PROVIDE CALCULATIONS, DETAILS AND PLANS OF ALL BRICK VENEER SUPPORTS, LINTELS AND ANCHORAGE, DESIGNED PER 2022 CBC.
2. SUBMIT PLANS AND CALCULATIONS STAMPED AND SIGNED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

PRODUCT APPROVALS:

1. FOR ALL ITEMS ON THE CONSTRUCTION DOCUMENTS NOT NOTED WITH A SPECIFIC PRODUCT TYPE OR MANUFACTURER, THE CONTRACTOR SHALL PROVIDE THE PRODUCT SPECIFIED IN THE TABLE BELOW.
2. THE FOLLOWING PRODUCTS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE REFERENCED PRODUCT APPROVALS BELOW, UNO.
3. AT CONTRACTOR'S OPTION, PRODUCTS MAY BE SUBSTITUTED FOR LIKE PRODUCTS PER THE SCHEDULE BELOW IF APPROVED BY SEOR.

ITEM	APPROVED PRODUCTS	ICC#	IAPMO ER
EXPANSION ANCHOR TO CONCRETE	HILTI KWIK BOLT TZ2	ESR-4266	-
	SIMPSON STRONG-BOLT-2	ESR-3037	-
	DEWALT POWER STUD+ SD2	ESR-2502	-
EXPANSION ANCHOR TO MASONRY	HILTI KWIK BOLT TZ2	ESR-4561	-
	SIMPSON STRONG-BOLT 2	-	ER-0240
	DEWALT POWER STUD+ SD1	ESR-2966	-
SCREW ANCHOR TO CONCRETE	SIMPSON TITEN HD SCREW ANCHOR	ESR-2713	-
	HILTI KH-EZ	ESR-3027	-
	DEWALT SCREW-BOLT+	ESR-3889	-
SCREW ANCHOR TO MASONRY	SIMPSON TITEN HD SCREW ANCHOR	ESR-1056	-
	HILTI KH-EZ	ESR-3056	-
	DEWALT SCREW-BOLT+	ESR-4042	-
EPOXY ANCHOR TO CONCRETE	HILTI HIT-HY 200	ESR-3187	-
	SIMPSON SET-XP	ESR-2508	-
	DEWALT PURE 110+	ESR-3298	-
EPOXY ANCHOR TO MASONRY	HILTI HIT-HY 200	ESR-3963	-
	SIMPSON SET-XP	-	ER-0265
	DEWALT AC100+ GOLD	ESR-3200	-
SHOTPIN	HILTI LOW-VELOCTIY X-U UNIVERSAL POWER-DRIVEN	ESR-2269	-
	SIMPSON POWER-DRIVEN	ESR-2138	-
	RAMSET POWER-DRIVEN	ESR-1799	-
SHEET METAL SCREW	HILTI KWIK-PRO SDS	ESR-2196	-
	DRIL-FLEX SDS	ESR-3332	-
WELD STUD /ANCHORS	NELSON BAR ANCHORS/STUD	ESR-2907	-

POST INSTALLED ANCHORS NOTES:

1. POST-INSTALLED ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).
2. THE TYPE, DIAMETER, AND EMBEDMENT SHALL BE AS NOTED ON THE DRAWINGS (OR EQUAL). ALL POST-INSTALLED ANCHORS SHALL HAVE A CURRENT CODE REPORT (ICC ESR, IAPMO ER, LARR, ETC.)
3. INSTALLATION OF ALL ANCHORS SHALL BE IN ACCORDANCE WITH THE APPLICABLE CODE REPORT AND THE MPII.
4. HOLE FOR ANCHORS SHALL SIZED ACCORDING TO THE ANCHOR TYPE AND DIAMETER PER THE MPII/CODE REPORT. HOLE SHALL BE DRILLED USING A ROTARY HAMMER OR OTHER ACCEPTABLE METHOD DESCRIBED IN THE MPII/CODE REPORT.
5. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, LOCATE EXISTING REINFORCEMENT BY NON-DESTRUCTIVE MEANS AND DO NOT CUT OR DAMAGING THE EXISTING REINFORCING BARS. WHEN INSTALLING THEM INTO EXISTING PRESTRESSED CONCRETE (PRE- OR POST- TENSIONED) LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. EXERCISE EXTREME CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE TENDONS DURING INSTALLATION. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.
6. ALL MISSDRILLED/DEFFECTIVE HOLES SHALL BE ABANDONED AND SOLID GROUTED.
7. PROVIDE SPECIAL INSPECTIONS AS LISTED IN THE CODE REPORT AND AS REQUIRED BY CBC CHAPTER 17 AND ACI 318 SECTION 17.8.2.

S-0.4

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SEAL: REGISTERED PROFESSIONAL ENGINEER — YOUNGKEUN AN — No. S4029 — Exp. 9/30/24 — STRUCTURAL — STATE OF CALIFORNIA

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PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: GENERAL NOTES

SHEET: 85 OF 145

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STATEMENT OF SPECIAL INSPECTIONS:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO BUILDING OFFICIAL AND SEOR. THE FINAL REPORTS BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF WORK. CONTINUOUS INSPECTION CONSISTS OF FULL-TIME INSPECTION; PERIODIC INSPECTION CONSISTS OF PART-TIME OR INTERMITTENT INSPECTION.
7. THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIAL. THIS LIST IS NOT INTENDED TO BE ALL INCLUSIVE.

TABLE 1705.3

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	CBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	-	X	ACI 318: 3.5, 7.1-7.7	-
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705A.2.1, ITEM 5B.	-	-	AWS D1.4; ACI 318: 3.5.2	-
3. INSPECTION OF ANCHORS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	X	-	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.[b]	-	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	-	ASTM C172 ASTM C31; ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	-	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE:				
A. APPLICATION OF PRESTRESSING FORCES.	X	-	ACI 318: 18.20	-
B. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORECE-RESISTING SYSTEM	X	-	ACI 318: 18.18.4	-
10. ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH 16	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.[c]	-	X	ACI 318: 6.1.1	-

FOR SI: 1 INCH = 25.4 MM

a. WHERE APPLICABLE, SEE ALSO SECTION 1705A.11, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTIONS SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 355.2 OR SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF THE WORK.
c. INSTALLATION OFF ALL ADHESIVE ANCHORS IN THE HORIZONTAL AND UPWARDS INCLINED POSITIONS SHALL BE PERFORMED BY AN ACI/CRSI CERTIFIED ANCHOR INSTALLER

TABLE 1705.6

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
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
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEE N PREPARED PROPERLY.	-	X

TABLE 1705.2.1

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	-
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	-	-
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
A. SNUG-TIGHT JOINTS.	-	X	AISC 360, SECTION M2.5	-
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	-	X		
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCH MARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	X	-		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
A. FOR STRUCTURAL STEEL, DENTIFICATION MARKINGS TO CONFORM TO AISC 360.	-	X	AISC 360, SECTION A3.1	2203.1
B. FOR OTHER STEEL. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE PPROVED CONSTRUCTION DOCUMENTS.	-	X	APPLICABLE ASTM MATERIAL STANDARDS	-
C. MANUFACTURER'S CERTIFIED TEST REPORTS.	-	X	-	-

TABLE 1705.2.1 (CONTINUED)

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	CBC REFERENCE
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	-	X	-	-
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	-	X	-	-
5. INSPECTION OF WELDING:				
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	X	-	AWS D1.1	1705.2.2
2) MULTIPASS FILLET WELDS.	X	-		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	-		
4) PLUG AND SLOT WELDS.	X	-		
5) SINGLE-PASS FILLET WELDS < 5/16"	-	X		
6) FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.3	-
B. REINFORCING STEEL.				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	-	X	AWS D1.4 ACI318: SECTION 3.5.2	-
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	-		
3) SHEAR REINFORCEMENT.	X	-		
4) OTHER REINFORCING STEEL.	-	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE.				
A. DETAILS SUCH AS BRACING AND STIFFENING.	-	X	-	1705.2.2
B. MEMBER LOCATIONS.	-	X		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	-	X		

S-0.5

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FILE NAME:	
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SHEET TITLE: GENERAL NOTES

SHEET: 86 OF 145

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TMS 602-16 TABLE 4

LEVEL 2 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION			FREQUENCY OF INSPECTION			
			CONTINUOUS	PERIODIC	TMS 402/ ACI 530/ ASCE 5	TMS 602/ACI 530.1/ASCE 6
1.	AS MASONRY CONSTRUCTION BEGINS,VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
	A.	PROPORTIONS OF SITE-PREPARED MORTAR	-	X	-	ART. 2.1, 2.6 A, & 2.6 C
	B.	GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	-	X	-	ART. 2.4 B & 2.4 H
	C.	GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X	-	ART. 3.4 & 3.6 A
	D.	PRESTRESSING TECHNIQUE	-	X		ART. 3.6 B
	E.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[b]	X[c]	-	ART. 2.1 C.1
	F.	SAMPLE PANEL CONSTRUCTION	-	X	-	ART. 1.6 D
2.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
	A.	GROUT SPACE	-	X	-	ART. 3.2 D & 3.2 F
	B.	PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	-	X	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
	C.	PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	-	X	SEC 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2 E & 3.4
	D.	PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	-	X	-	ART. 2.6 B & 2.4 G.1.b
3.	VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
	A.	MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	-	X	-	ART. 1.5
	B.	PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	-	X	-	ART. 3.3 B
	C.	SIZE AND LOCATION OF STRUCTURE MEMBERS	-	X	-	ART. 3.3 F
	D.	TYPE,SIZE,AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	-	X	SEC. 1.2.1(e), 6.2.1, & 6.3.1	-
	E.	WELDING OF REINFORCEMENT	X	-	SEC.6.1.6.1.2	-
	F.	PREPARATION, CONSTRUCTION, AND PROTECTION OD MASONRY DURING COLD WETHER (TEMPERATURE BELOW 40°F(4.4°C))OR HOT WEATHER (TEMPERATURE ABOVE90°F(32.2°C))		X	-	ART. 1.8 C & 1.8 D
	G.	APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X		-	ART. 3.6 B
	H.	PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X		-	ART. 3.5 & 3.6 C
	I.	PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X[b]	X[c]	-	ART. 3.3 B.9 & 3.3 F.1.b
4.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		-	X	-	ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY
(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

S-0.6

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PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
GENERAL NOTES

SHEET: 87 OF 145

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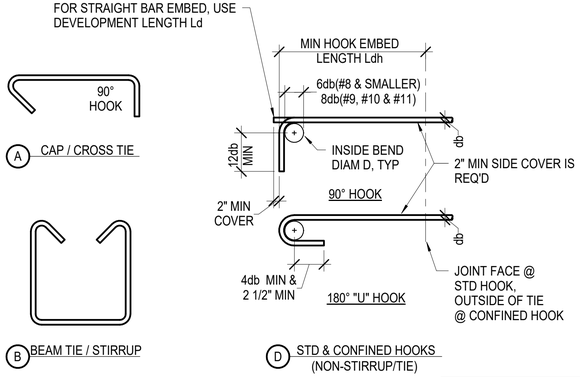
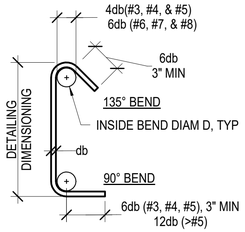


A CAP / CROSS TIE

B BEAM TIE / STIRRUP

D STD & CONFINED HOOKS (NON-STIRRUP/TIE)

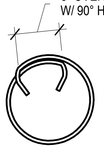


C STIRRUP & TIE HOOKS (#8 & SMALLER ONLY)

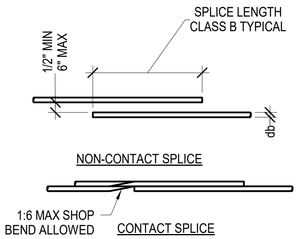
BAR SIZE	FINISHED BEND DIAMETER "D" IN INCHES
#3	2 1/4"
#4	3"
#5	3 3/4"
#6	4 1/2"
#7	5 1/4"
#8	8"
#9	9 1/2"
#10	10 3/4"
#11	12"
#14	18 1/4"
#18	24"

STANDARD HOOKS

E CLOSED TIE / HOOP



F ROUND HOOP



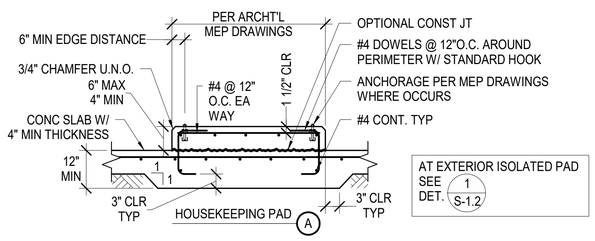
G LAP SPLICES

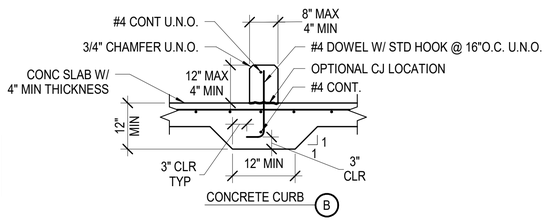
	BAR SIZE	L_{dh}(in) STD HOOK	LAP SPLICE (in) CLASS B		L_d(in) DEVELOPMENT LENGTH	
			TOP	OTHER	TOP	OTHER
4000 PSI NWC	#3	6	25	20	19	15
	#4	7	33	25	25	19
	#5	9	41	32	31	24
	#6	10	49	38	37	29
	#7	12	71	55	54	42
	#8	14	81	63	62	48
	#9	15	91	71	70	54
	#10	17	103	80	79	61
	#11	19	114	88	87	67

NOTES:
1. Ldh - HOOK DEVELOPMENT LENGTH.
2. Ld - DEVELOPMENT LENGTH.
3. SEE BUILDING CODE AND ACI 318-14 VERSION FOR ALL REQUIREMENTS NOT NOTED.
4. FOR LIGHTWEIGHT CONCRETE MULTIPLY Ldh AND Ld VALUES SHOWN BY 1.3.
5. TOP" BARS ARE HORIZONTAL WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. ALL OTHER BARS ARE "OTHER" BARS.
6. STD HOOK Ldh DOES NOT ACCOUNT FOR THE EFFECT OF TIES. CONFINED HOOK Ldh MAY BE USED WHERE ACI 318-14 25.4.3 APPLIES.
7. VALUES SHOWN ABOVE ARE FOR GRADE 60 (FY=60 KSI) REINFORCEMENT.
8. SPLICE LENGTHS SHOWN ARE FOR CLEAR SPACING NOT LESS THAN 2db, CONCRETE COVER NOT LESS THAN db .
9. FOR EPOXY-COATED REINFORCEMENT, SEE BUILDING CODE.

5 S-1.1 TYPICAL REINFORCEMENT DETAILS AND DEVELOPMENT LENGTHS

SCALE: N.T.S.



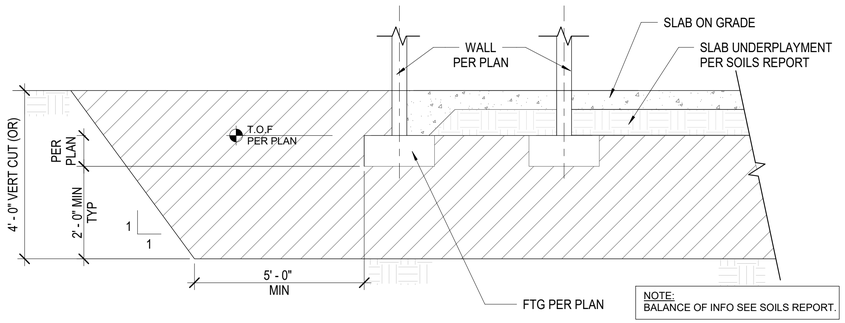


7 S-1.1 REINF BAR SPLICES AT CONT WALL FTGS INTERSECTIONS

SCALE: N.T.S.

8 S-1.1 TYPICAL SLAB ON GRADE DETAILS

SCALE: N.T.S.

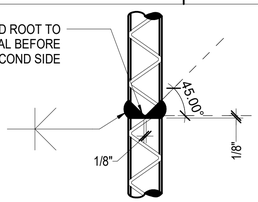


9 S-1.1 TYPICAL CONCRETE PAD AND CURB ON GRADE

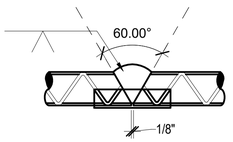
SCALE: N.T.S.

11 S-1.1 OVER EXCAVATION AT TYP FOUNDATION

SCALE: N.T.S.

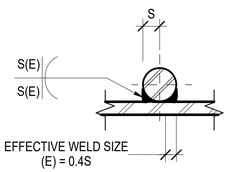


A FLARE V-GROOVE WELD

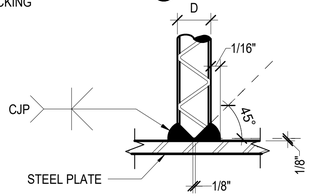


B SINGLE V-GROOVE WELD WITH SPLIT PIPE BACKING

C DOUBLE BEVEL GROOVE WELD



D FLARE BEVEL GROOVE WELD



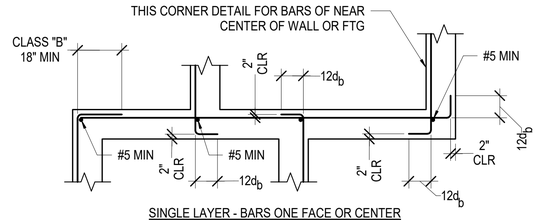
E COMPLETE JOINT PENETRATION GROOVE WELD

WELD SCHEDULE	
BAR SIZE	MIN WELD LENGTH
#3	3"
#4	3"
#5	3"
#6	4"
#7	5"
#8	5"
#9	6"
#10	6"

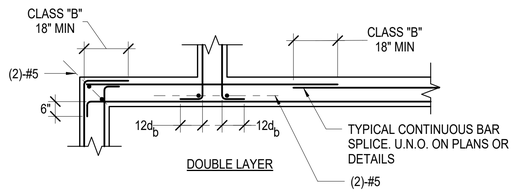
NOTES:
1. WELDING SHALL BE WITH LOW HYDROGEN ELECTRODES E90XX AND SHALL CONFORM TO AWS-D1.4.
2. ALL WELDING SHALL BE SUBJECT TO CONTINUOUS INSPECTION.
3. REINFORCING BARS TO BE WELDED SHALL MEET THE REQUIREMENT OF ASTM A706.
4. RADIUS OF REINFORCING BAR = S.
5. THESE ARE SECTIONAL VIEWS. BAR DEFORMATIONS ARE SHOWN ONLY FOR ILLUSTRATIVE PURPOSES.

3 S-1.1 TYPICAL REINFORCING BAR WELDING

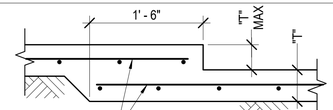
SCALE: N.T.S.

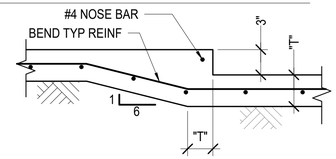


SINGLE LAYER - BARS ONE FACE OR CENTER

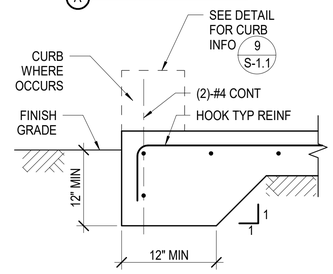


DOUBLE LAYER



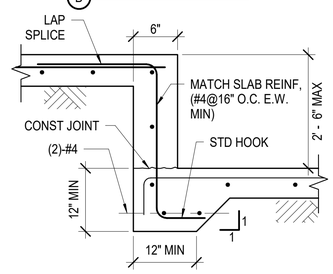


A SLAB DEPRESSION



C EDGE OF SLAB

B SLAB DEPRESSION ALT



D SLAB STEP

S-1.1

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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YOUNG KEUN KIM No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

1/31/2024 2:08:51 PM

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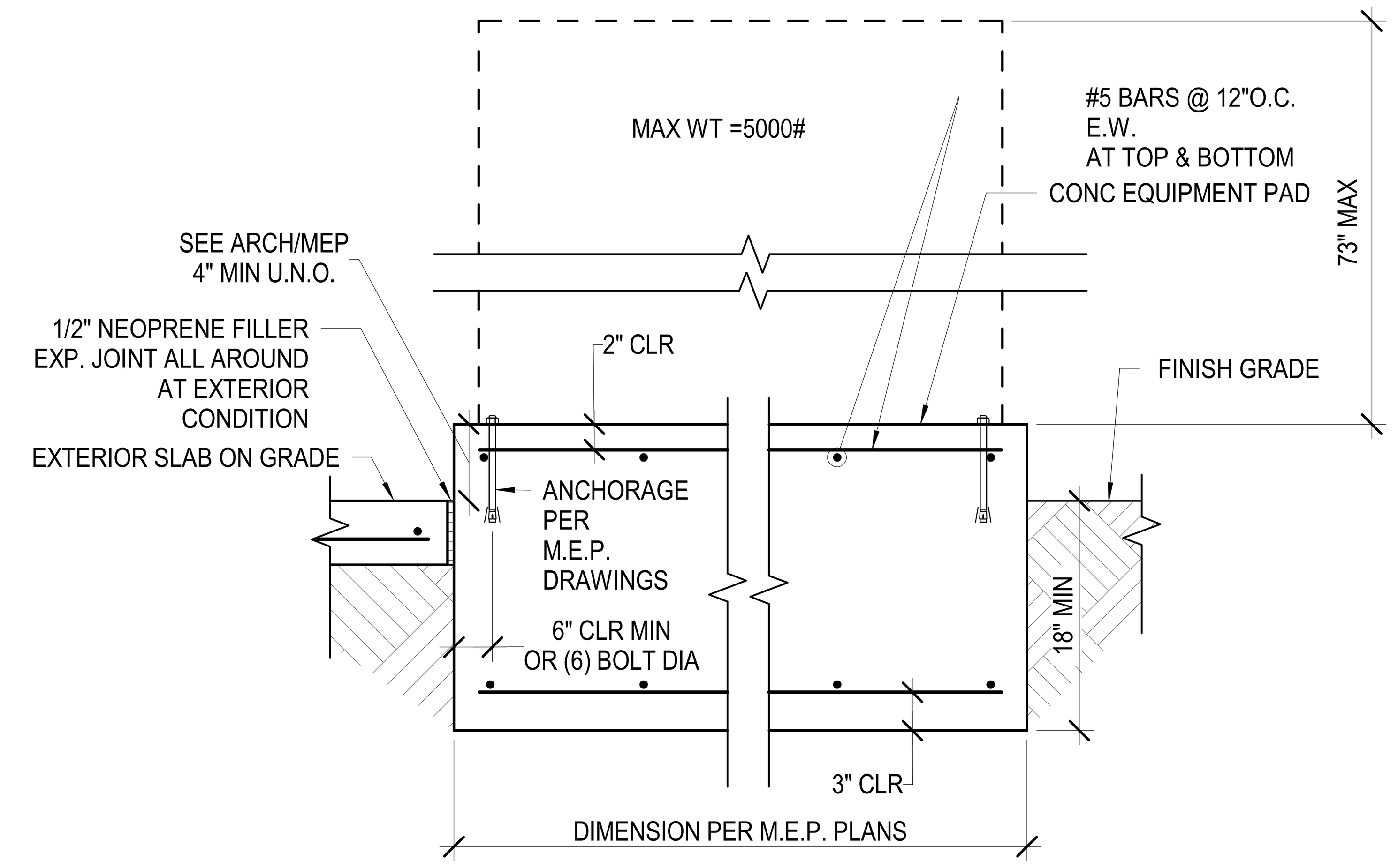
CHECK BY:	YN & JA
DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: TYP REBAR & S.O.G

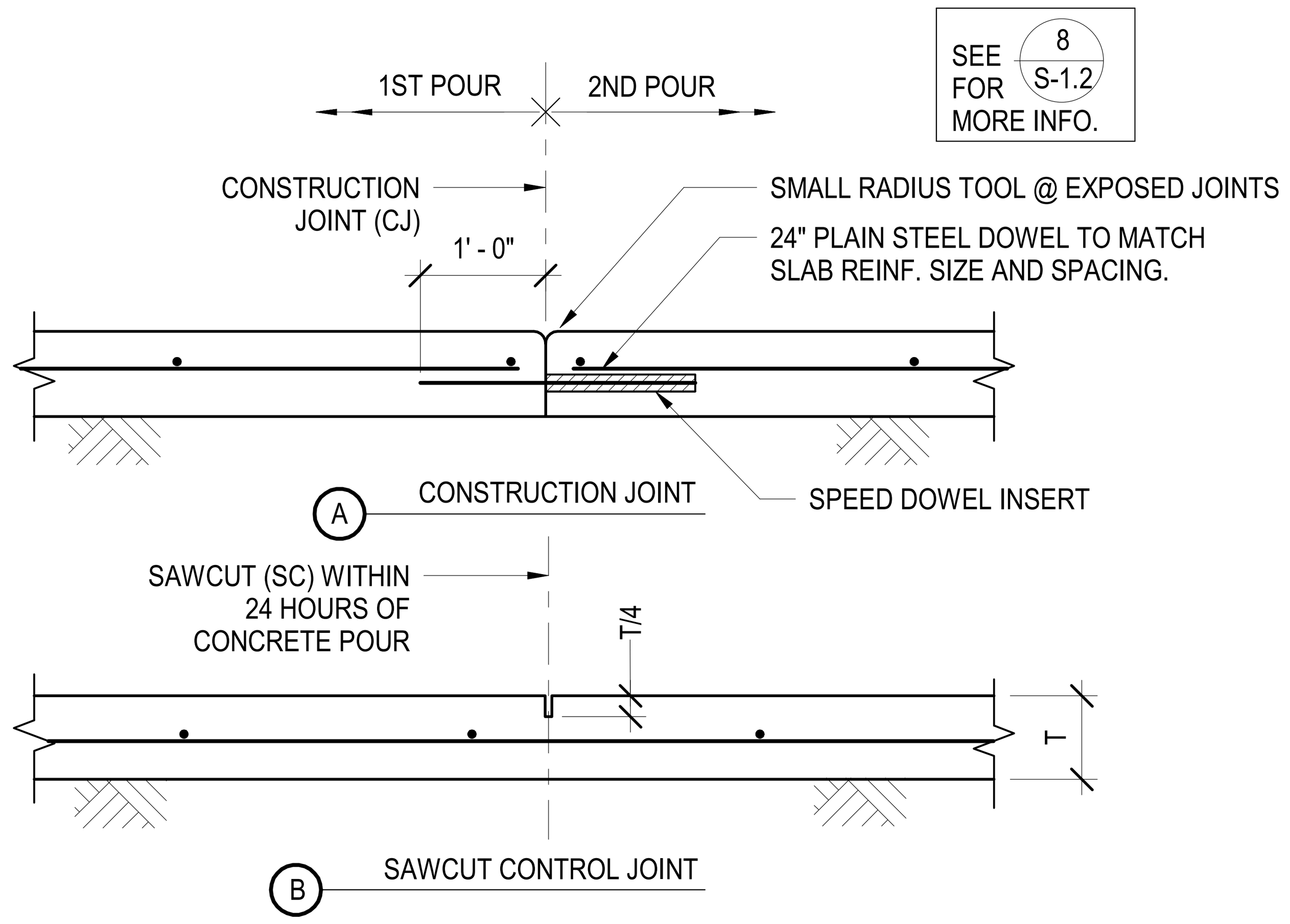
SHEET: 88 OF 145

BID DELIVERABLE



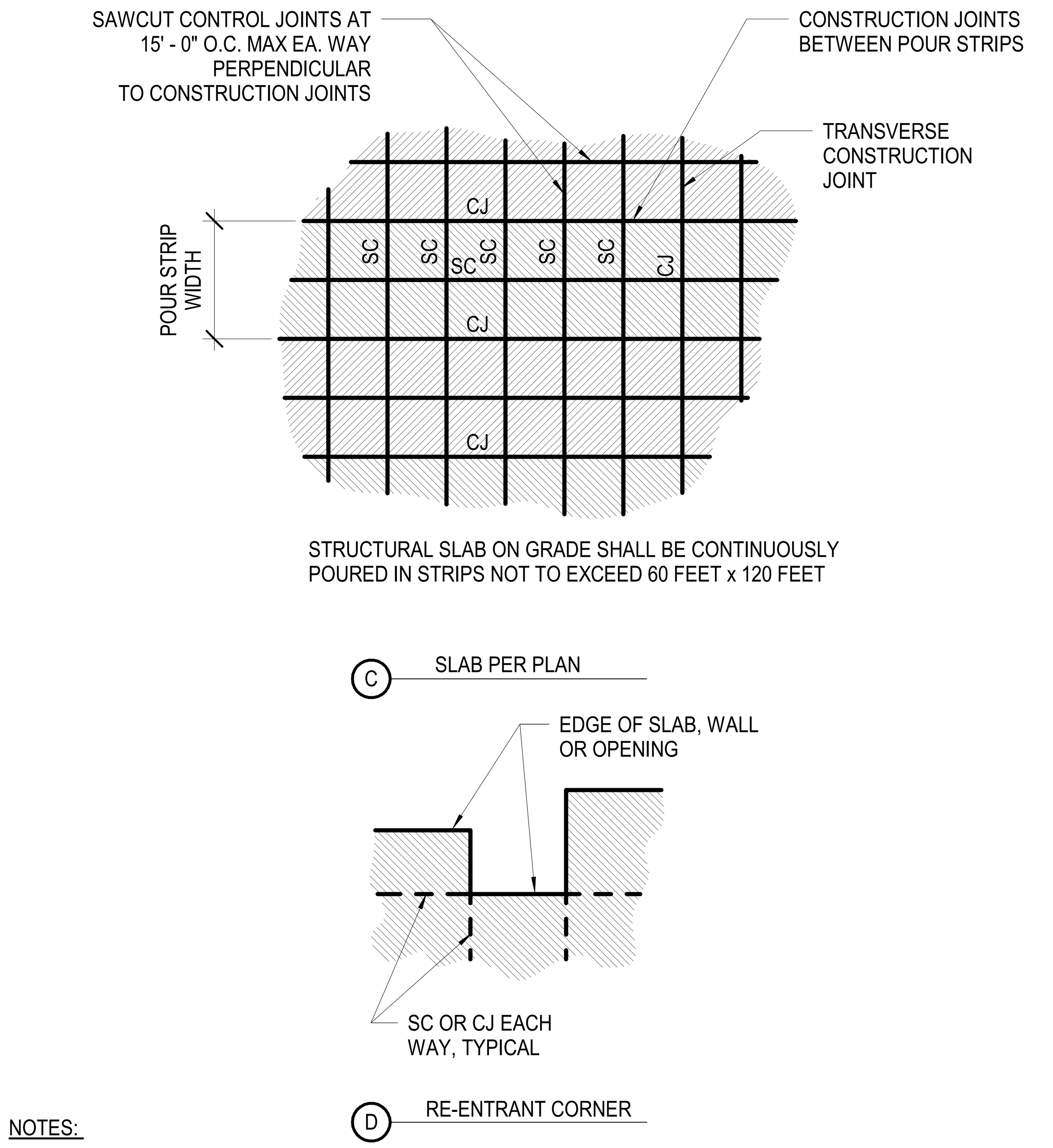
1 S-1.2 TYPICAL ISOLATED EQUIPMENT PAD (EXTERIOR)

SCALE: N.T.S.



2 S-1.2 TYPICAL SLAB ON GRADE CONTROL JOINT (FOR SLAB THICKNESS 4" TO 6")

SCALE: N.T.S.

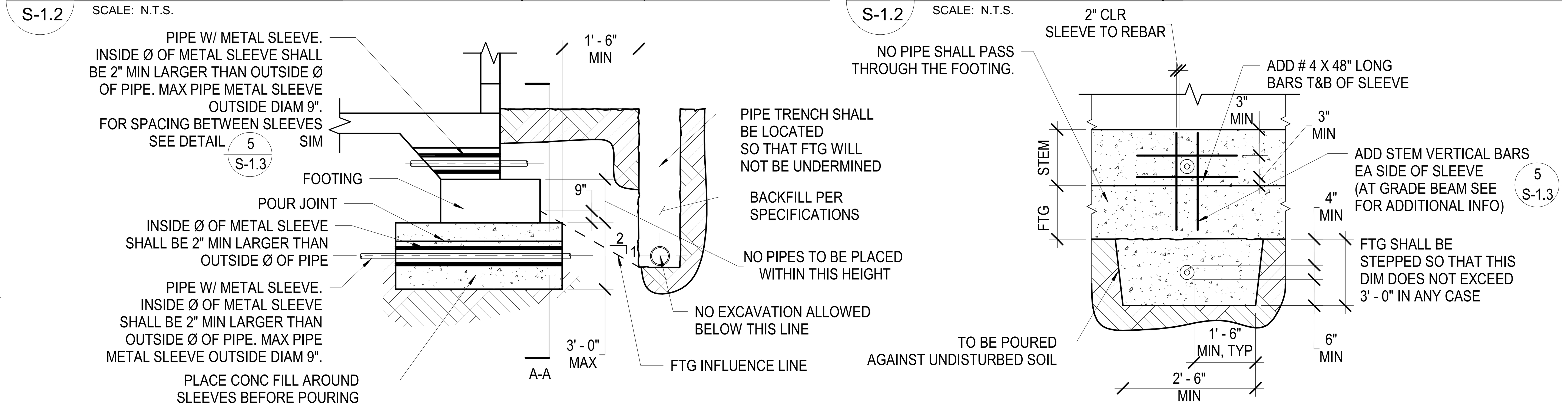


NOTES:

1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF VISUALLY EXPOSED CONTROL JOINTS.
2. FOR POURING SEQUENCE OTHER THAN THAT SHOWN ON THESE PLANS, SUBMIT SHOP DRAWINGS TO SEOR FOR REVIEW 7 DAYS PRIOR TO POUR.
3. FOR SAW CUT (SC) AND CONSTRUCTION JOINT (CJ) SEE DETAIL 2 / S-1.2
4. FOR TYPICAL SLAB EDGE AND STEPS IN SLAB SEE DETAIL 8 / S-1.1

8 S-1.2 TYPICAL SLAB ON GRADE CONTROL JOINT

SCALE: N.T.S.

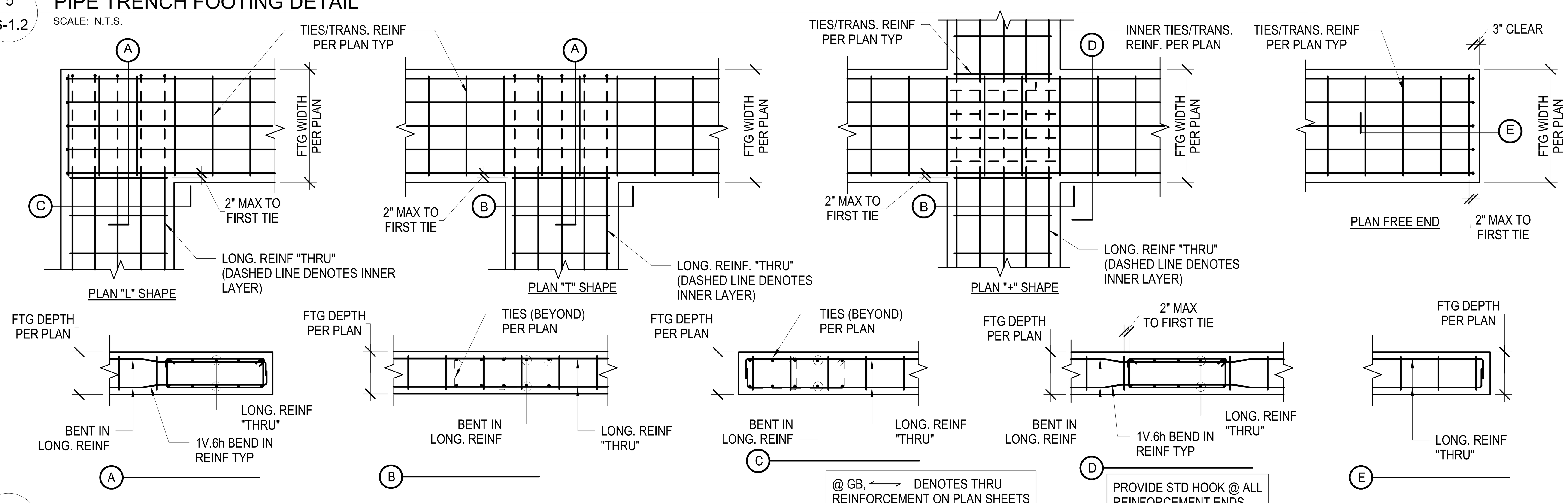


NOTES:
1. CONTRACTOR SHALL COORDINATE ALL PIPE LOCATIONS WITH BUILDING FOUNDATION REQUIREMENTS.
2. IF REQUIREMENTS AS SHOWN CANNOT BE MET, STEP FOOTING PER TYPICAL 'STEPPED FOOTING' DETAIL.
3. REFERENCE CBC SECTION 1809.14.

SECTION A-A

5 S-1.2 PIPE TRENCH FOOTING DETAIL

SCALE: N.T.S.



9 S-1.2 FOOTING INTERSECTION

SCALE: N.T.S.

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CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

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APPROVED BY: ICTC ENGINEER DATE

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Project No: H612

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DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: TYPICAL DETAILS

S-1.2

SHEET: 89 OF 145

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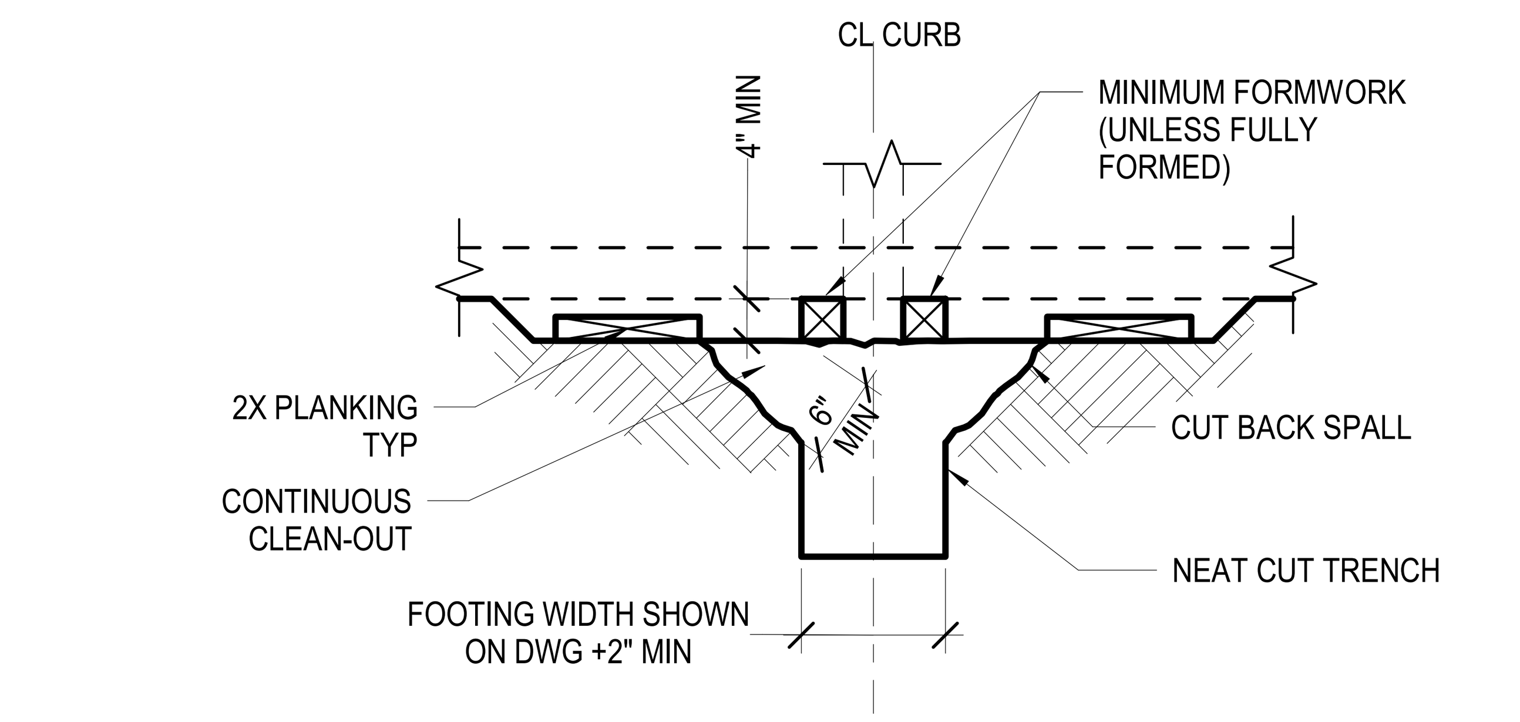
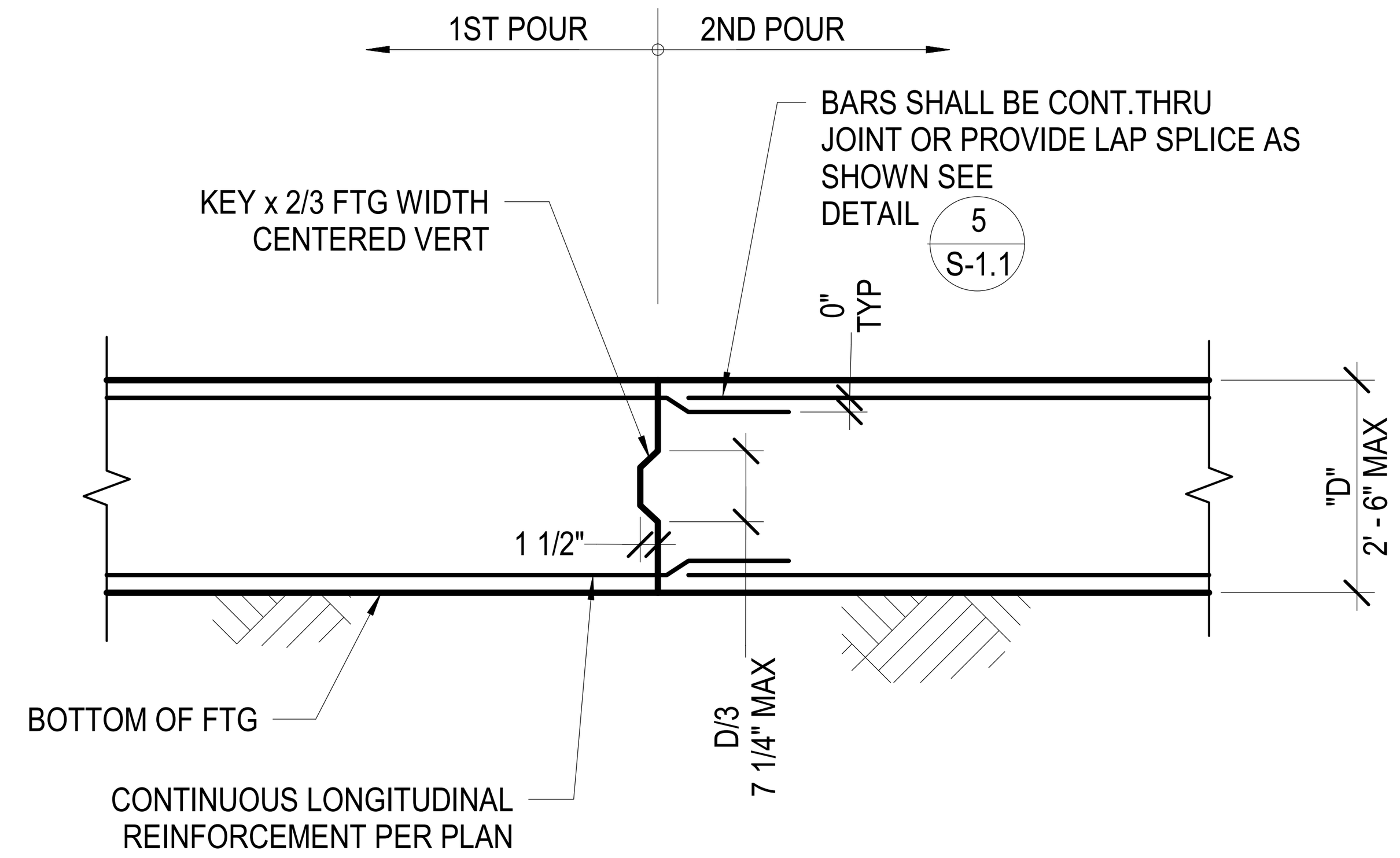


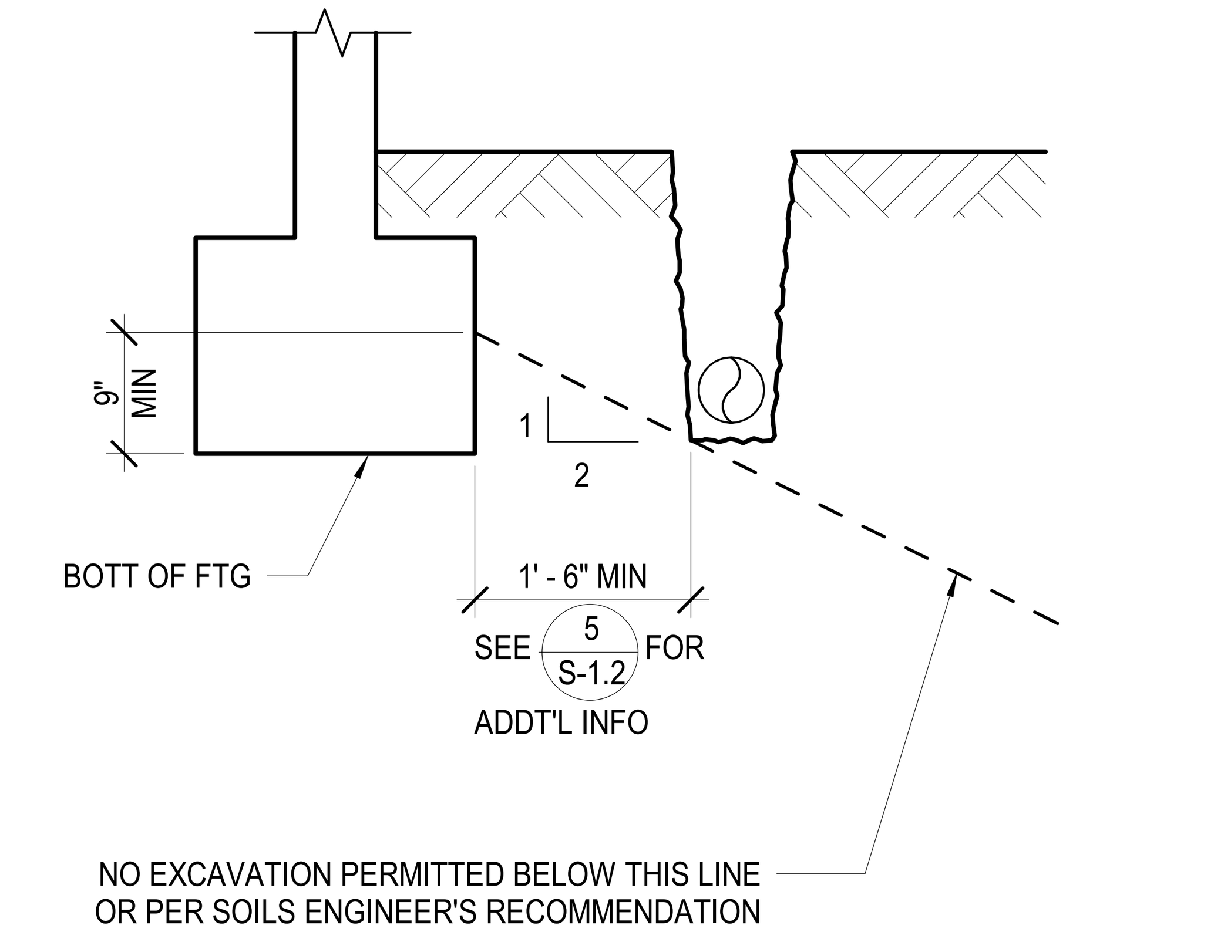
NOTES:
1. FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF GEOTECH. ENGR.
2. FOOTING WIDTHS SHALL NOT BE MORE THAN 4" WIDER THAN SHOWN ON PLAN.
3. FORMWORK NOT PERMITTED BELOW GRADE UNLESS FULLY FORMED.
4. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE GEOTECHNICAL ENGINEER. THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO ENSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE.
5. CONT CLEAN-OUT STAKES NOT PERMITTED IN THE FTG AREA.
6. AFTER CONCRETE HAS SET, REMOVE LAITANCE AND SCUM.

1 S-1.3 FOOTING POURED AGAINST EARTH
SCALE: N.T.S.



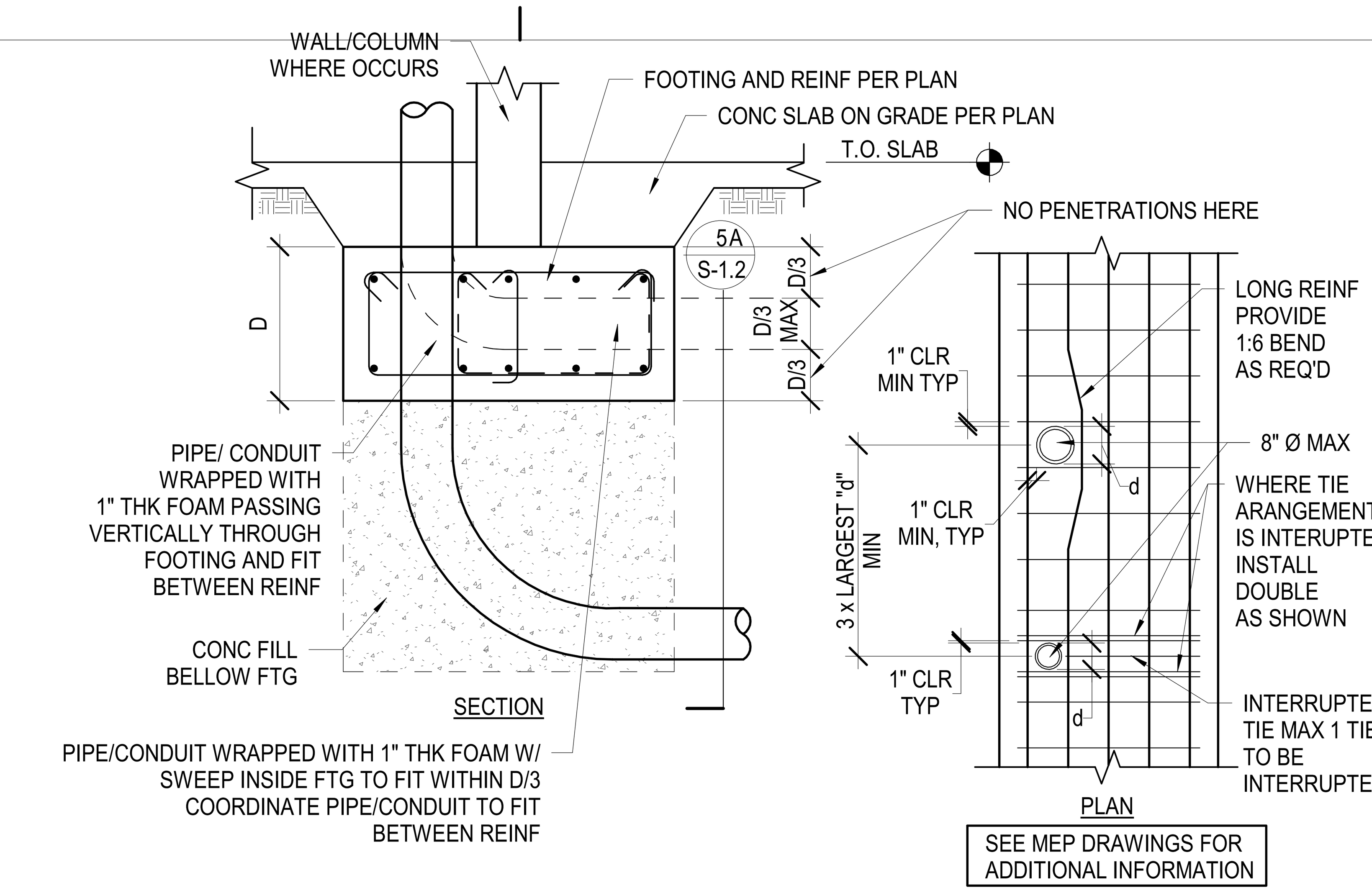
NOTES:
1. PROVIDE ADEQUATE SUPPORT FOR LONGITUDINAL REINFORCEMENT WITHIN 6" OF JOINT USING FOOTING TIES, VERTICAL DOWELS OR OTHER MEANS.
2. SECTIONS SHOWN ARE AT CENTER OF FOOTING IN LONGITUDINAL DIRECTION.

2 S-1.3 CONSTRUCTION JOINT AT FOOTING/ GRADE BEAM
SCALE: N.T.S.

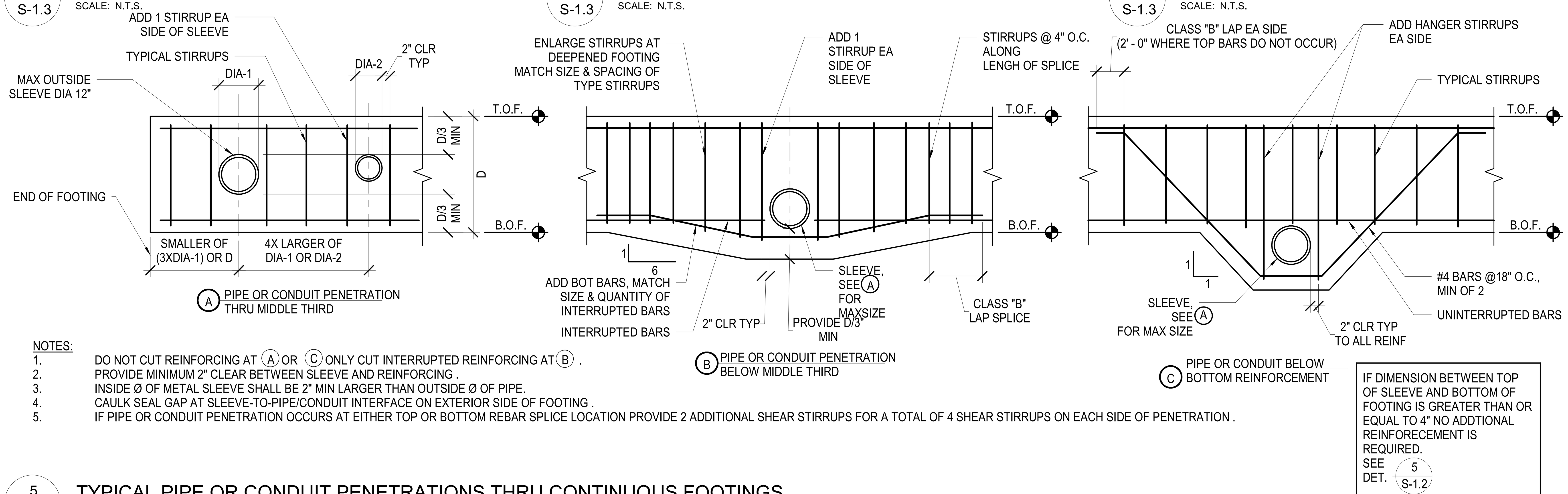


NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING OR OTHERWISE MAINTAINING THE SIDES OF THE EXCAVATION FROM CAVE-INS UNTIL ALL BACKFILL IS COMPLETED PER SPECIFICATIONS AND GEOTECHNICAL REPORT.

3 S-1.3 TYPICAL EXCAVATION PARALLEL TO FOOTING
SCALE: N.T.S.

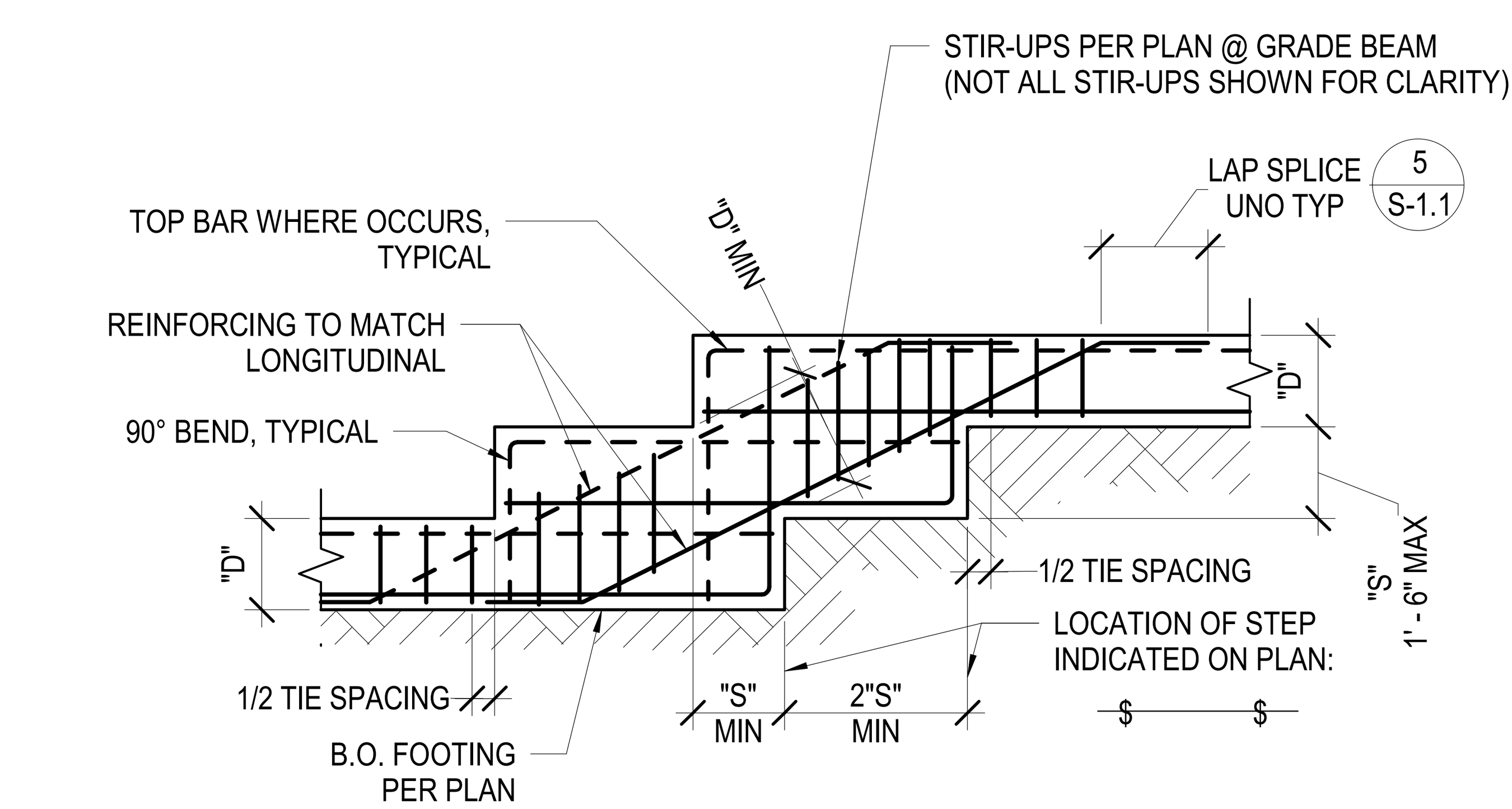


4 S-1.3 PIPE/ CONDUIT SWEEP THRU FOOTING
SCALE: N.T.S.



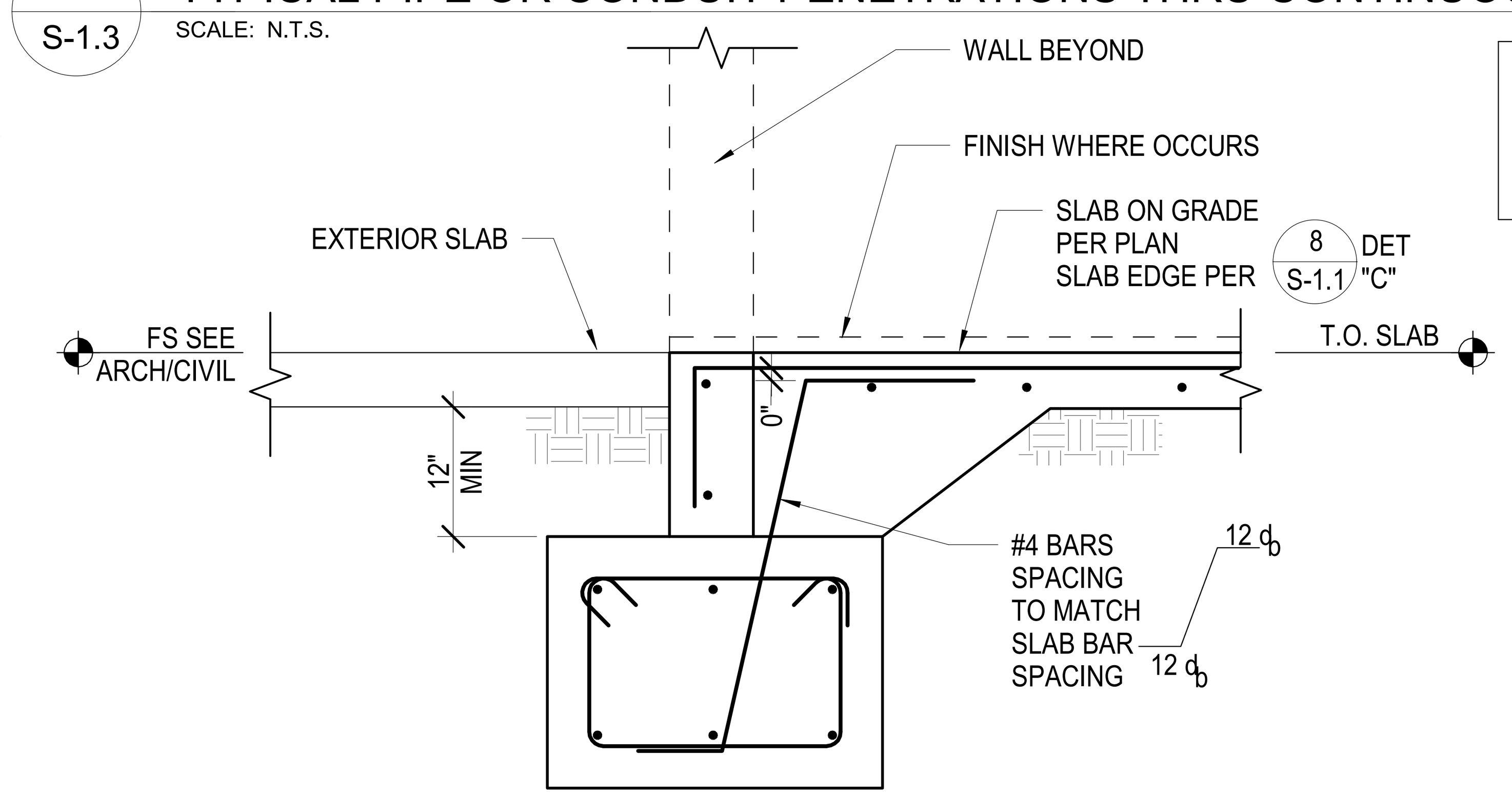
NOTES:
1. DO NOT CUT REINFORCING AT (A) OR (C) ONLY CUT INTERRUPTED REINFORCING AT (B).
2. PROVIDE MINIMUM 2" CLEAR BETWEEN SLEEVE AND REINFORCING .
3. INSIDE Ø OF METAL SLEEVE SHALL BE 2" MIN LARGER THAN OUTSIDE Ø OF PIPE.
4. CAULK SEAL GAP AT SLEEVE-TO-PIPE/CONDUIT INTERFACE ON EXTERIOR SIDE OF FOOTING .
5. IF PIPE OR CONDUIT PENETRATION OCCURS AT EITHER TOP OR BOTTOM REBAR SPLICE LOCATION PROVIDE 2 ADDITIONAL SHEAR STIRRUPS FOR A TOTAL OF 4 SHEAR STIRRUPS ON EACH SIDE OF PENETRATION .

5 S-1.3 TYPICAL PIPE OR CONDUIT PENETRATIONS THRU CONTINUOUS FOOTINGS
SCALE: N.T.S.



NOTES:
1. FOR FTG REINFORCING SEE PLANS AND DETAILS.
2. VERTICAL WALL DOWELS SHALL EXTEND TO BOTTOM OF FOOTING.
3. TRANSVERSE STEEL NOT SHOWN FOR CLARITY.
4. TWO STEPS ARE SHOWN, DETAIL FOR SINGLE STEP OR ADDITIONAL STEPS IS SIMILAR.

8 S-1.3 TYPICAL STEPPED FOOTING GRADE BEAM
SCALE: N.T.S.



BALANCE OF INFO SEE DET. 1 S-4.1

9 S-1.3 FOOTING @ OPENING
SCALE: N.T.S.

S-1.3

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ENGINEERING DIVISION

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FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TYP EXCAVATION & FOOTING

SHEET:
90 OF 145

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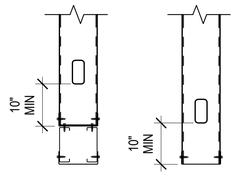
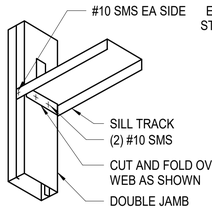
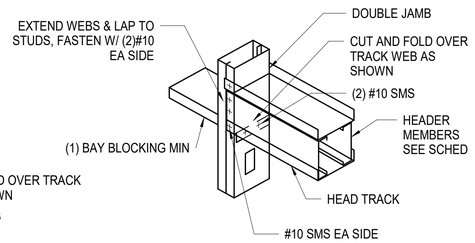


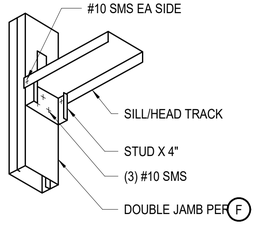
1 CONDITION 2 CONDITION

NON-BEARING - HEADER DIRECTLY OVER OPENING



NOTE:
SEE DETAILS D & E FOR ALTERNATE CONNECTION AS CONTRACTORS OPTION.



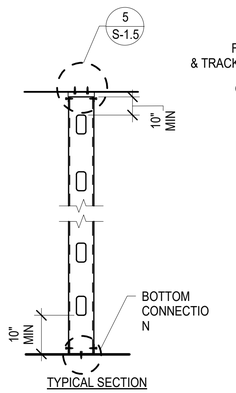


A HEADER DETAIL

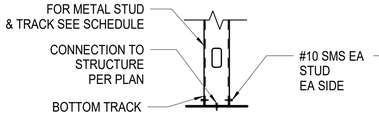
B DETAIL

C DETAIL

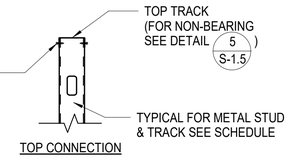
D ALTERNATE



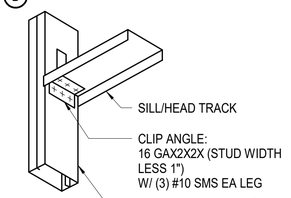
TYPICAL SECTION



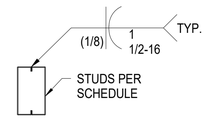
BOTTOM CONNECTION



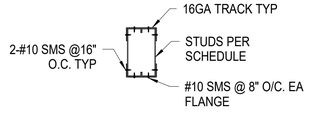
TOP CONNECTION



E ALTERNATE



WELD OPTION



SCREW OPTION

JAMB STUD SCHEDULE		
MAX OPENING "L" OR COMBINED OPENING L= L(RIGHT) + L (LEFT) AT ADJACENT OPENING	HT < 16'-0" (INTERIOR)	
	STUDS	CONN AT TOP TRACK
L ≤ 6'-0"	(2) 400S162-33	SL400*
	(2) 600S162-33	SL600*
6'-0" ≤ L ≤ 10'-0"	(2) 400S162-33	SL400*
	(2) 600S162-43	SL600*
10'-0" ≤ L ≤ 16'-0"	(2) 400S162-43	SL400*
	(2) 600S162-43	SL600*

NOTES:
1. JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
2. * DENOTES TSN (THE STEEL NETWORK) CLIPS. (ICC-ESR-2049)

F TYP. JAMB SHCEDULE

NOTES:

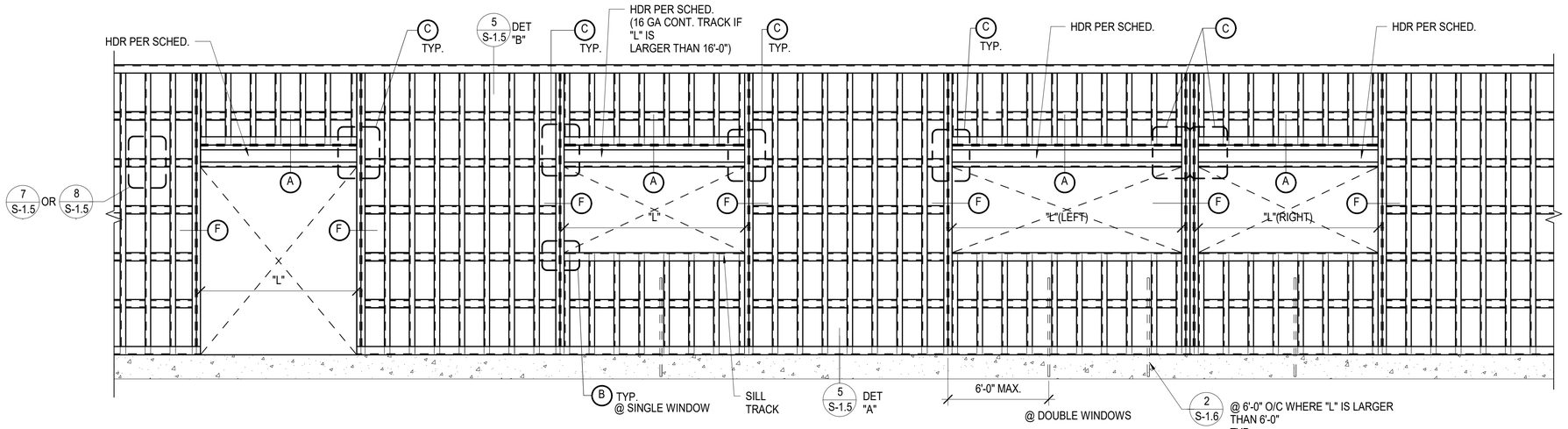
1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

METAL STUD SCHEDULE UNO ON PLAN REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ESR-3064P)						
TRACK	NOMINAL STUD SIZE	SSMA PRODUCT IDENTIFICATION	STUD SPACING	MINIMUM PROPERTIES		
				Ix (in⁴)	Sx (in³)	Ma (in-k)
BOTTOM TRACK	6"x1 1/2"x16GA	600T150-54	-	2.400	0.609	18.24
TOP TRACK	6"x1 1/2"x16GA	600T150-54	-	2.400	0.609	18.24
CAPPING TRACK	6"x2"x16GA	600T200-54	-	2.641	0.717	21.48

MAX HT FOR INTERIOR METAL STUD SIZE (1 5/8" FLANGE WIDTH) @ 16" O/C MAX LOAD= 7.5 PSF (L/240)					
GAUGE	MEMBER WEB DEPTH				
	2 1/2"	3 5/8"	4"	6"	8"
14	-	17'-5"	18'-10"	26'-2"	33'-4"
16	-	16'-4"	17'-8"	24'-6"	31'-1"
18	11'-5"	15'-3"	16'-6"	22'-10"	29'-0"

HEADER BEAM SCHEDULE (INTERIOR NON-BEARING PARTITIONS) MAX WIND = 5PSF		
SPAN "L"	CONDITION	LINTEL SIZE
≤ 4' 0"	DET. A - 2	16 GA TRACK, WIDTH TO MATCH
> 4' 0" ≤ 8' 0"	DET. A - 1	(2) 6"X20 GA METAL STUDS (600S162-33)
> 8' 0" ≤ 12' 0"	DET. A - 1	(2) 6"X18 GA METAL STUDS (600S162-43)
> 12' 0" ≤ 16' 0"	DET. A - 1	(2) 8"X16 GA METAL STUDS (800S162-54)

2. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A1003.
   a. 18GA AND LIGHTER: MINIMUM YIELD POINT OF 33 KSI
   b. 16GA AND HAVIER: MINIMUM YIELD POINT OF 50 KSI.
   c. ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICC REPORT NO. ESR-3064P. ALL STUDS AND TRACKS SHALL COMPLY WITH ICC REPORT NO. ESR-3064P.
3. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY POSITION UNTIL PROPERLY FASTENED.
4. STUD AND TRACKS SHALL BE ATTACHED BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.
5. MANUFACTURER PROVIDED PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF THE FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24". PUNCH-OUT SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND MAXIMUM LENGTH OF 4 1/2".
6. SPLICES IN STUDS AND BRACES SHALL NOT PERMITTED.
7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURERS, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.
8. PROVIDE 0.08" THICK x 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.
9. LOCATE PUNCHOUTS 10" CLEAR OF CONNECTIONS. IF PUNCH IS CLOSER THAN 10" TO CONNECTION, SEE DETAIL 5 C S-1.5



5 S-1.4 TYPICAL NON-BEARING AND MTL STUD SCHED. & WALL FRAMING (INTERIOR)

SCALE: N.T.S.

S-1.4

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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YUNG KEUN AN No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

1/31/2024 2:08:53 PM

DRAWN BY:	AN & RM
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DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: TYPICAL DETAILS

SHEET: 91 OF 145

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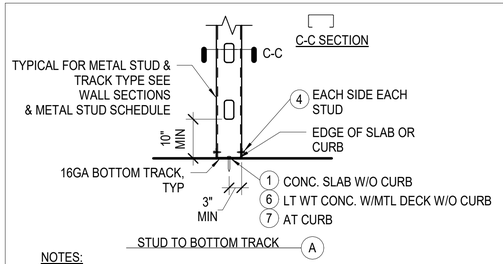
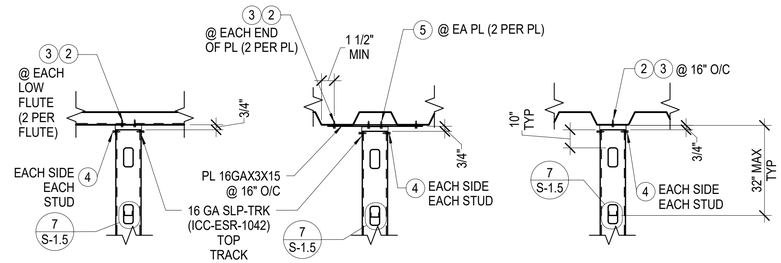
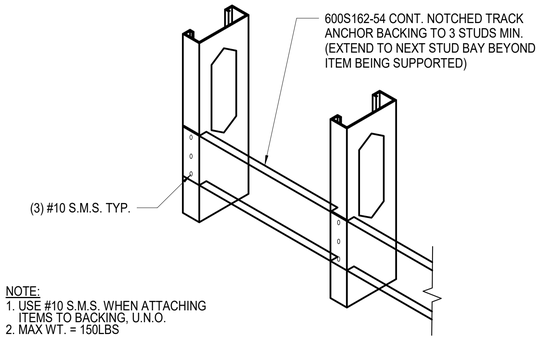


NOTES:

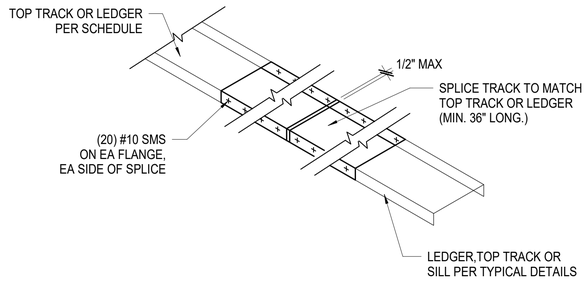
1. FOR STEEL STUD AND TRACK TYPE SEE PLANS, SECTIONS AND METAL STUD SIZE SCHEDULE ON DETAIL 5/S-1.4
2. FOR METAL STUD FASTENERS, SEE METAL STUD FASTENER SCHEDULE.
3. ALL POWER DRIVEN FASTENERS TO HAVE A MINIMUM PENETRATION OF 1 1/4".



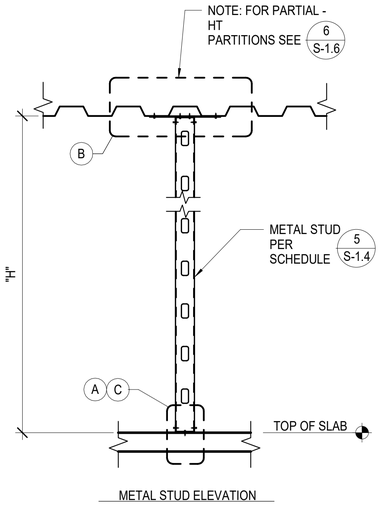


NOTE:
1. USE #10 S.M.S. WHEN ATTACHING ITEMS TO BACKING, U.N.O.
2. MAX WT. = 150LBS

3/S-1.5 BACKING DETAIL
SCALE: N.T.S.

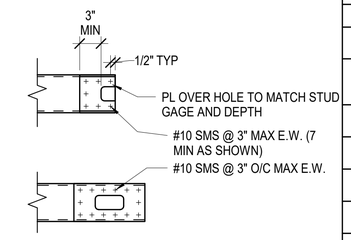


4/S-1.5 TOP TRACK, LEDGER & SILL SPLICE DETAIL
SCALE: N.T.S.



METAL STUD ELEVATION

5/S-1.5 STEEL STUD BRACING DETAIL (INTERIOR ONLY)
SCALE: N.T.S.

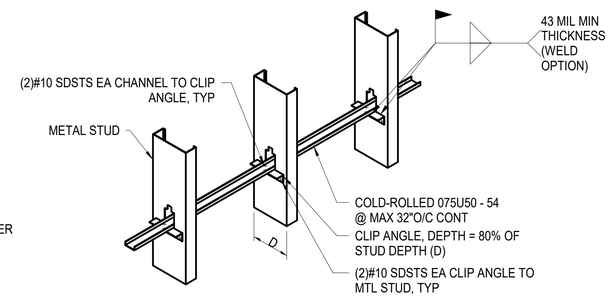


REINF. OF STUD AT PUNCHOUT C

METAL STUD FASTENER SCHEDULE		
MARK	FASTENERS SIZE & SPACING	REMARKS
1	HILTI 0.157" DIA. X-U SHOT PIN @ 32" O/C W. 1 1/2 " MIN EMBED	ESR-2269
2	HILTI 0.157" DIA. X-U SHOT PIN @COMPOSITE DECK W/ 1 1/2" MIN EMBED	ESR-2269
3	#10 SMS AT ROOF METAL DECK	ESR-1408
4	#10 SHEET METAL SCREW	ESR-1408
5	#12 SHEET METAL SCREW	ESR-1408
6	HILTI KH-EZ 1/4" X 1.18" EMBED. SCREW ANCHOR @ 24" O/C	ESR-3027
7	5/8" X 12" HEADED BOLT @ 32"O/C W/ STD WASHER TYP. (MIN.4"EMBED)	-

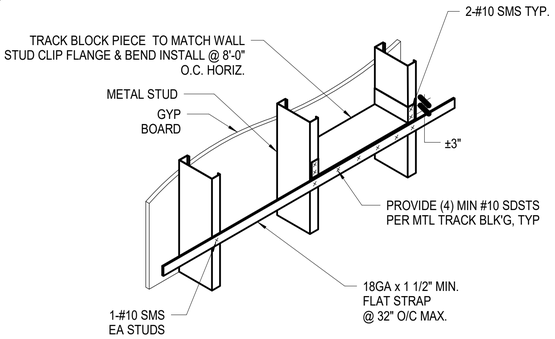
PAF: POWER ACTUATED FASTENER (LOW VELOCITY) OR POWER DRIVEN FASTENER HOLES FOR A.B. SHALL BE 1/16" LARGER THAN BOLT SIZE.

NOTES:
1. MAXIMUM STUD HEIGHT "H" FOR STUDS @ 16" O/C PER SCHEDULE 5/S-1.4
2. SEE ARCHITECTURAL FOR OTHER CONDITIONS.
3. LIMIT PER (2022 CBC TABLE 1604.3)
   L/360 - W/ PLASTER AND STUCCO FINISHES.
   L/240 - W/ OTHER BRITTLE FINISHES.
   L/120 - W/ FLEXIBLE FINISHES.
4. STUDS CARRYING EQUIPMENT OR CASEWORK WEIGHING 40 LBS OR MORE SHALL BE 16GA MIN.



SEE SCHEDULE ON THIS SHEET FOR METAL STUD & TRACK SIZES

7/S-1.5 BRIDGING CHANNEL W/ CLIP ANGLE (WITHOUT PLYWOOD/GYP BOARD)
SCALE: N.T.S.



SEE SCHEDULE ON THIS SHEET FOR METAL STUD & TRACK SIZES

8/S-1.5 SINGLE FLAT STRAP BRIDGING W/ BLOCKING (WITH PLYWOOD/GYP BOARD ON ONE SIDE)
SCALE: N.T.S.

S-1.5

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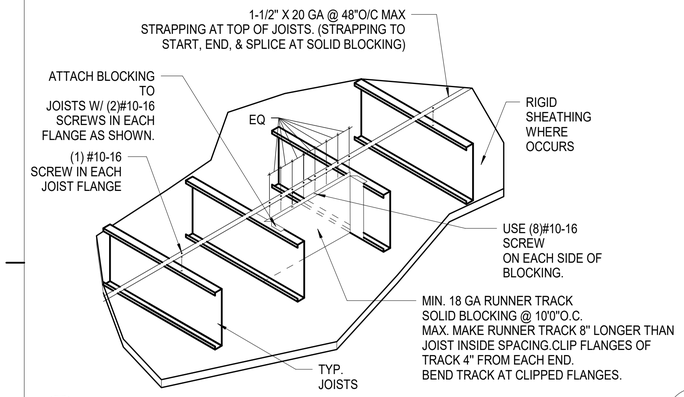
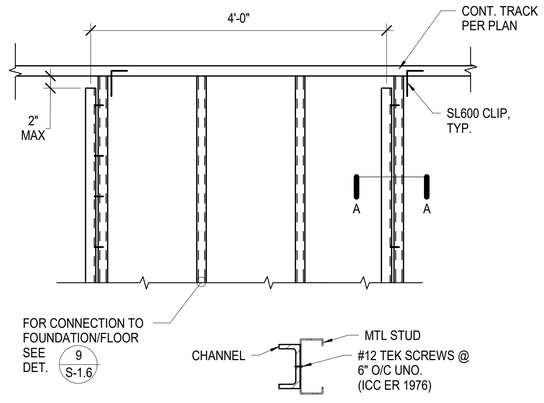
BLOCKING NOTE:
PLACE SOLID BLOCKING AT ENDS OF FLOOR
SYSTEM, ADJACENT TO ALL OPENINGS, AND AT 10'-0"O.C. MAX.

STRAP NOTE:
TOP STRAP NOT REQ'D. IF CONTINUOUSLY ATTACHED RIGID SHEATHING IS USED. TEMPORARY BRACING OF TOP FLANGE DURING CONSTRUCTION MAY BE REQ'D.

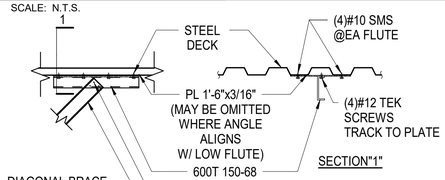




SECTION A-A

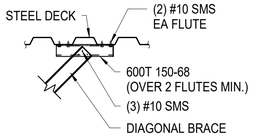
1 S-1.6 CEILING JOISTS FLANGE BRACING

SCALE: N.T.S.



SECTION"1"

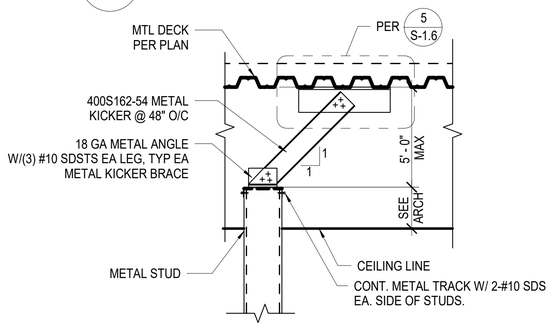
B1 PARALLEL TO DECK FLUTES (BARE METAL DECK)



A1 PERPENDICULAR TO DECK FLUTES (BARE METAL DECK)

2 S-1.6 ELEVATION OF PARTIAL HEIGHT WALL

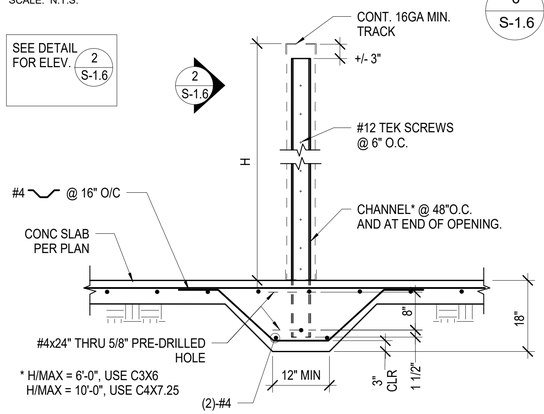
SCALE: N.T.S.



FOR METAL STUD & TRACK SIZES SEE DETAIL ON 5 / S-1.4

5 S-1.6 WALL BRACE

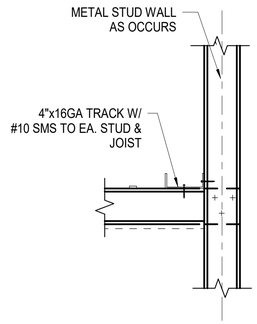
SCALE: N.T.S.



* H/MAX = 6'-0", USE C3X6
H/MAX = 10'-0", USE C4X7.25

6 S-1.6 NON-LOAD BEARING INTERIOR WALL FRAMED TO CEILING W/ DIAGONAL KICKER

SCALE: N.T.S.

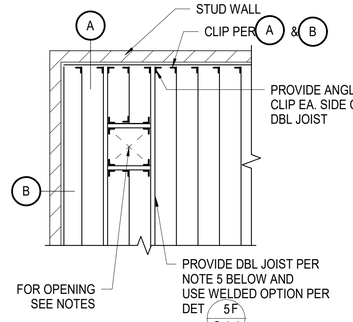


9 S-1.6 PARTIAL HEIGHT WALL @ INTERIOR WALL

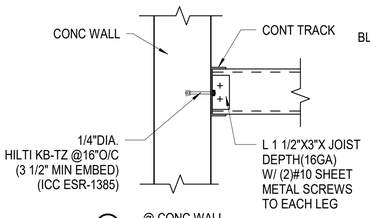
SCALE: N.T.S.

10 S-1.6 INTERIOR CEILING FRAMING

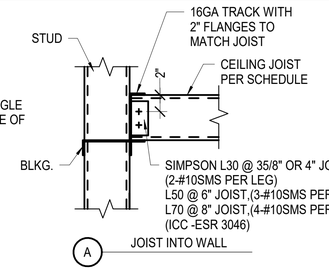
SCALE: N.T.S.



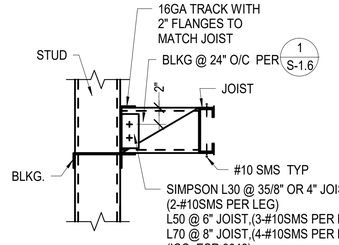
CEILING PLAN VIEW



C @ CONC WALL



A JOIST INTO WALL



B JOIST PARALLEL TO WALL

INTERIOR METAL CEILING JOIST SCHEDULE					
NOMINAL SIZE	SSMA PRODUCT IDENTIFICATION	Ixx(IN⁴)	Sxx(IN³)	SPACING (IN)	MAXIMUM SPAN (L1)
3 5/8"x20GA	362S162-33	0.551	0.304	16	8'-6"
4"x18GA	400S162-43	0.892	0.446	16	9'-6"
6"x18GA	600S162-43	2.316	0.772	16	11'-0"
8"x18GA	800S162-43	4.633	1.158	16	12'-0"

NOTES:

1. JOIST AND TRACK DESIGNATIONS ARE BASED ON STEEL STUD MANUFACTURER'S ASSOCIATION (ICC ER-3064P).
2. DESIGN LOADS:
   DEAD LOAD = 20 PSF
3. SEE TYP. CEILING JOIST FRAMING DETAIL 10 S-1.6
4. WHERE JOIST IS CUT, PROVIDE DOUBLE JOIST TO ADJ. CEILING JOIST NEXT TO CUT JOIST (DO NOT CUT MORE THAN ONE JOIST).
5. SEE DETAIL 1 S-1.6 FOR BRACING REQUIREMENTS.

8 S-1.6 METAL CEILING JOIST SCHEDULE (INTERIOR ONLY)

SCALE: N.T.S.

S-1.6

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1/31/2024 2:08:55 PM

DRAWN BY:	AN & RM
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FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
TYPICAL DETAILS

SHEET: 93 OF 145

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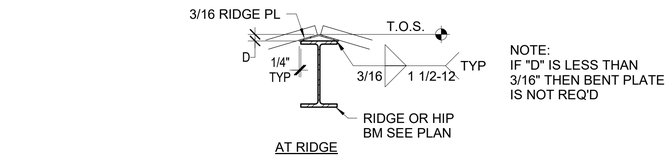
7 - WELD PATTERN

7- SCREW PATTERN (#12 SCREWS)

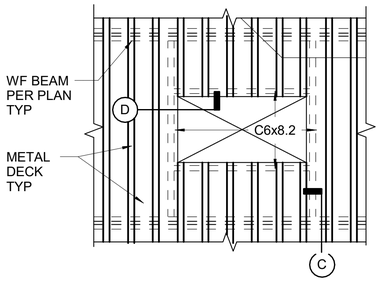
1 S-1.7 TYP. METAL DECK WELDING / SCREW PATTERNS

SCALE: N.T.S.



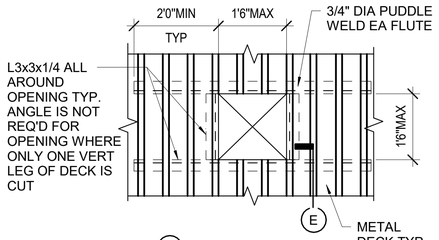
2 S-1.7 TYP SLOPED DECK TO BEAM DETAIL

SCALE: N.T.S.

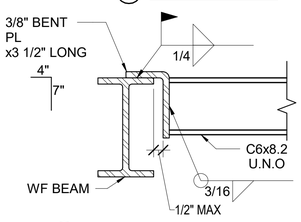


A OPENING GREATER THAN 18" TO 60"

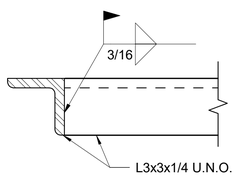
NOTES:
1. FRAMING AROUND DECK OPENINGS TO BE FURNISHED AND INSTALLED BY STRUCTURAL STEEL CONTRACTOR.
2. PROVIDE CONT BENT PLATE ALL AROUND OPENINGS AT ROOF EXHAUST FAN, DUCT & PIPE PENETRATIONS, GRAVITY RELIEF VENT, & WHERE SHOWN ON MEP DRAWINGS.



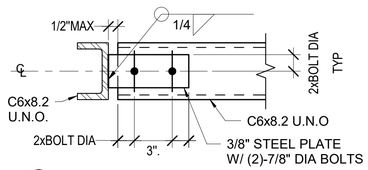
B OPENING UP TO 18"



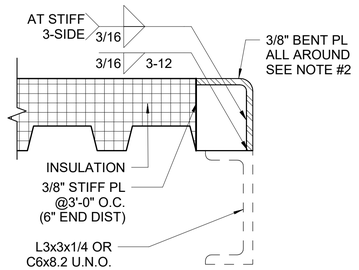
C TYP CHANNEL/WF BM CONN



E TYP ANGLE / ANGLE CONN



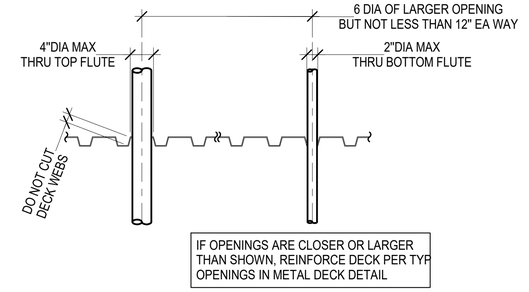
D TYP CHANNEL / CHANNEL CONNECTION



F TYP BENT PL / ANGLE CONN AT ROOF

4 S-1.7 PIPE PENETRATIONS AT DECK WITHOUT FILL

SCALE: N.T.S.



5 S-1.7 TYP FRAMING AT OPENINGS IN STEEL DECK

SCALE: N.T.S.

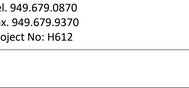
EFFECTIVE MINIMUM 1/2" DIA OR 3/8"x1" LONG (NO WELD WASHERUSED)

THROUGH 3/8" DIA HOLE IN 14 GA WELD WASHER

A ROOF DECK PUDDLE WELD

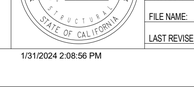
B DECK PLUG WELD

WELDS TO SUPPORT



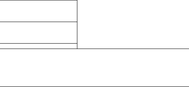
3/16" DIA BUTTON PROTRUDES NOTICEABLY INTERLOCKING UNITS @ 12"O.C.

C BUTTON PUNCH



WELD CLINCH FIRST TO GET CONTACT OF LIPS - 1 1/2" LONG WELD MUST ENGAGE TOP OF INNER LEG PER SCHEDULE

D TOP SEAM



CLINCH FIRST TO GET CONTACT OF LIPS - 1 1/2" LONG WELD MUST ENGAGE TOP OF INNER LEG AND HAVE FUSION TOP AND BOTTOM

E SIDE SEAM WELD

SIDE LAP FASTENING

7 S-1.7 TYP METAL DECK WELDING

SCALE: N.T.S.

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S-1.7

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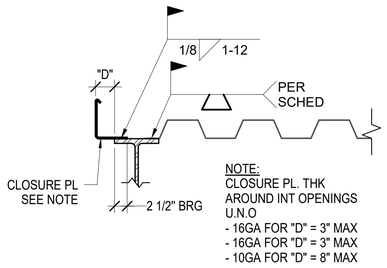
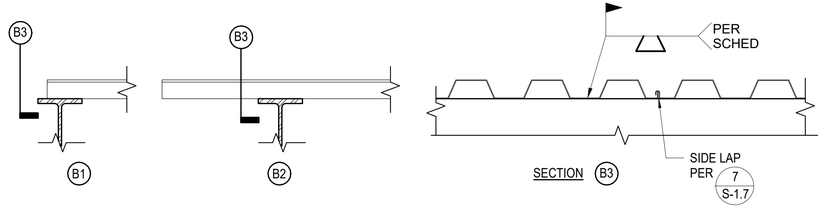
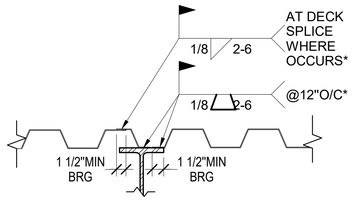


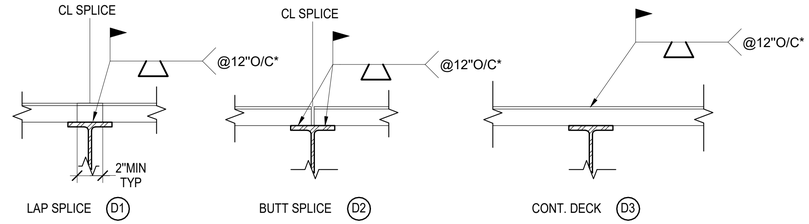
A AT BOUNDARIES PARALLEL TO DECK



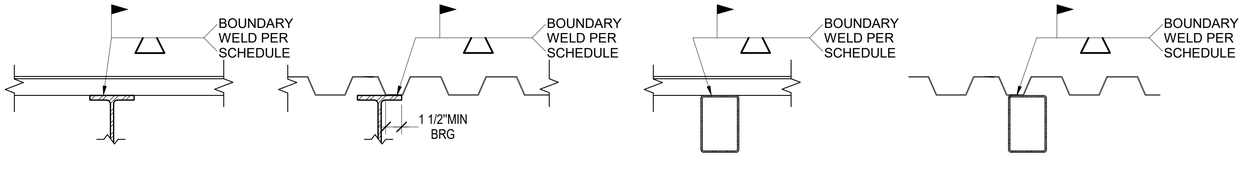
B AT BOUNDARIES PERPENDICULAR TO DECK



C AT INTERIOR BEAMS PARALLEL OR SKEWED TO DECK



D AT INTERIOR BEAMS PERPENDICULAR TO DECK



NOTE:
DO NOT SPLICE DECK AT STRUT MEMBER

E AT INTERIOR STRUT

NOTE:
DO NOT SPLICE DECK AT BOXED BEAM MEMBER

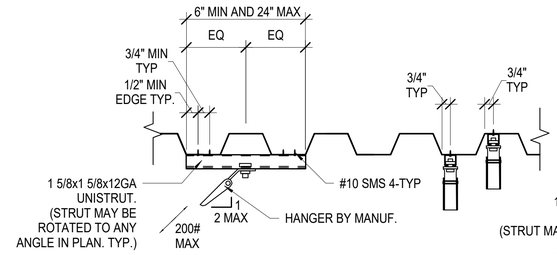
F AT INTERIOR BOXED BEAM

SYMBOL	METAL DECK DESIGNATION	GAGE	CONC. FILL & REINF. (TOTAL SLAB DEPTH)	METAL DECK ATTACHMENT TO SUPPORT		DECK TO DECK SIDE LAP ATTACHMENT	SHEAR TRANZ II	DECK PROPERTY		
				AT BOUNDARY DECK PERPENDICULAR TO SUPPORT	AT BOUNDARY DECK PARALLEL TO SUPPORT			I (IN4)	+S(IN3)	-S(IN3)
D1	VERCO PLB-36	18	-	7 PUDDLE WELDS PER PANEL	PUDDLE WELDS @ 12" O/C	TSW @ 6" O/C	NO	0.302	0.314	0.331

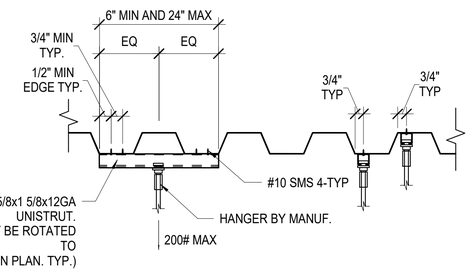
* NOTE: ALL WELDS CAN BE SUBSTITUTED BY #12 SELF DRILLING TEK SCREWS

NOTES:
1.SEE METAL DECK NOTES ON SHEET S-0.4
2.ALL DECK SHALL HAVE 2 1/2" MIN BEARING ON END SUPPORT, 1 1/2" MIN BEARING ON SIDE SUPPORT TYP., U.N.O.
3.TSW REFERS TO TOP SEAM WELD. SEE DETAIL 7 / S-1.7 .
4.VSC REFERS TO VERCO SIDELAP CONNECTION.
5.SEE DETAIL 1 / S-1.7 FOR WELDING PATTERN.
6.ALL STEEL DECK SHALL BE GALVANIZED, U.N.O.
7.NO LOADS OF ANY KIND SHALL BE HUNG FROM ROOF DECK UNLESS SPECIFICALLY DETAIL ON STRUCTURAL DRAWINGS.
8.ALL PUDDLE WELDS SHALL HAVE AN EFFECTIVE FUSION AREA AT LEAST EQUIVALENT TO 3/8" X 1" LONG OR 3/4" IN DIAMETER. PUDDLE WELD MAY BE OMITTED WHERE LOCATION COINCIDES WITH SHEAR STUDS WELDED THROUGH METAL DECK.
9.SEE DETAIL 2 / S-1.7 WHERE THE SLOPE OF THE METAL DECK REQUIRES BENT PLATE.

9 S-1.8 TYP METAL DECK DETAILS AND SCHEDULE
SCALE: N.T.S.

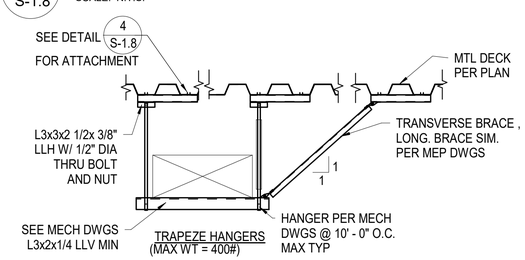


SEISMIC BRACKET ATTACHMENT TO NON-CONCRETE FILLED METAL DECK

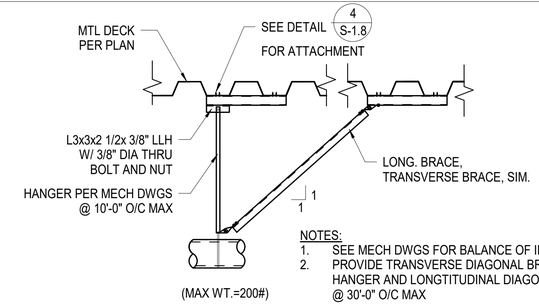


HANGER ATTACHMENT TO NON-CONCRETE FILLED METAL DECK

4 S-1.8 UNISTRUT ATTACHMENT
SCALE: N.T.S.



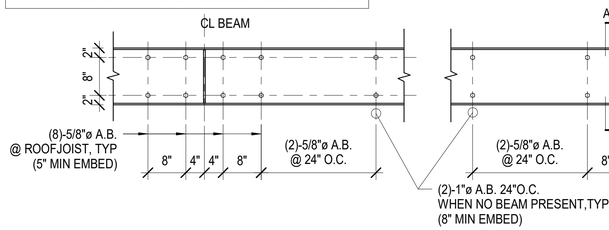
NOTES:
1. SEE MECH DWGS FOR BALANCE OF INFO..
2. PROVIDE TRANSVERSE DIAGONAL BRACE AT EA. HANGER AND LONGTITUDINAL DIAGONAL BRACE @ 30'-0" O/C MAX



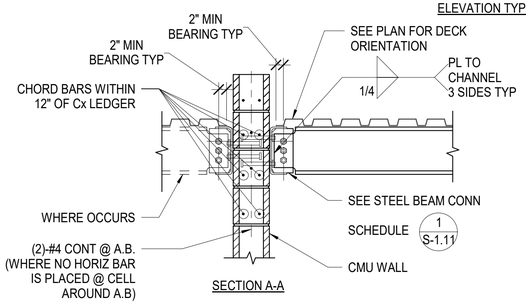
NOTES:
1. SEE MECH DWGS FOR BALANCE OF INFORMATION.
2. PROVIDE TRANSVERSE DIAGONAL BRACE AT EA. HANGER AND LONGTITUDINAL DIAGONAL BRACE @ 30'-0" O/C MAX

7 S-1.8 RECT DUCT ANCHORAGE DETAIL
SCALE: N.T.S.

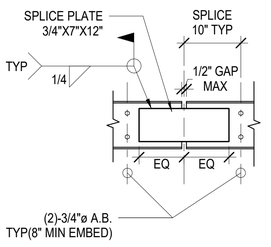
NOTE: WHERE ANCHOR BOLTS ARE CONGESTED, AS ALT, USE EQUIVALENT THRU BOLT WHEN CHANNELS WITH THE SAME T.O.S. OCCUR ON EA. FACE. DO NOT PLACE THRU BOLT IN SLOPED ANGLE. PROVIDE EPOXY WHERE OVERSIZED HOLE IS PROVIDED



ELEVATION TYPICAL @ CMU



SECTION A-A



CHANNEL SPLICING
(NOT ALLOWED WITHIN 24" OF BM)

8 S-1.8 ROUND DUCT ANCHORAGE DETAIL
SCALE: N.T.S.

12 S-1.8 ROOF BEAM TO CMU CONNECTION
SCALE: N.T.S.

S-1.8

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APPROVED BY: ENGINEER DATE

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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. S4029 Exp. 9/30/24 — STRUCTURAL — STATE OF CALIFORNIA

1/31/2024 2:08:57 PM

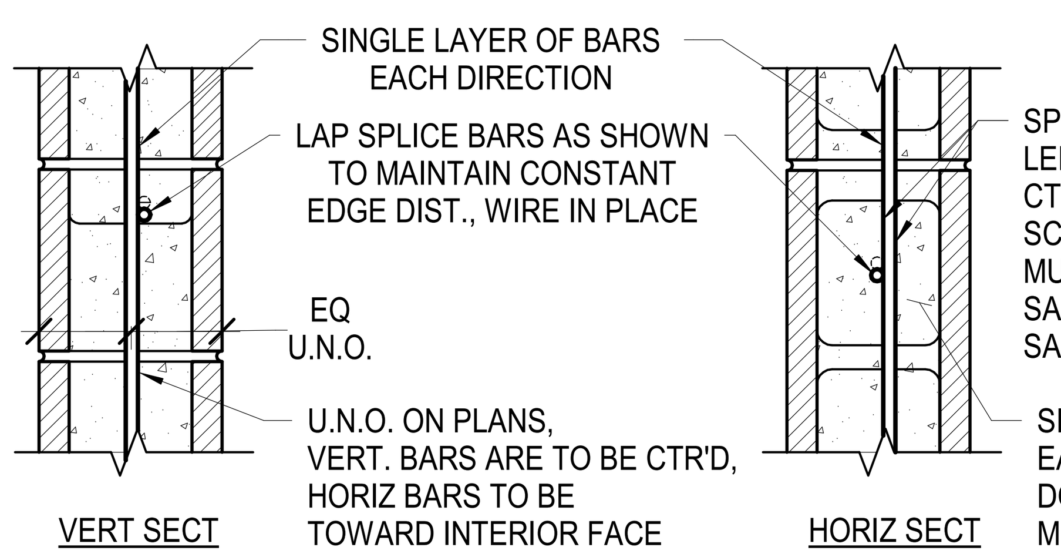
DRAWN BY:	AN & RM
CHECK BY:	YN & JA
DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

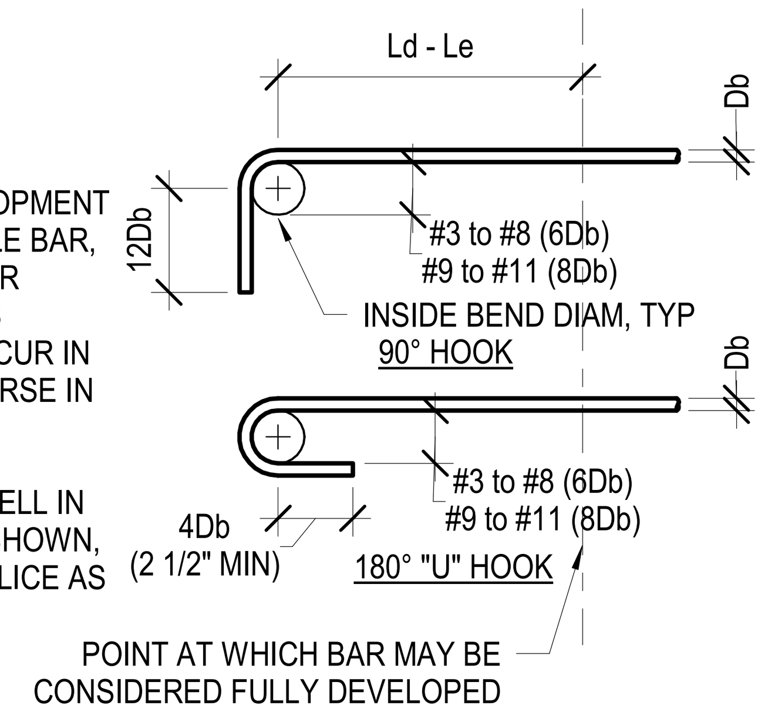
SHEET TITLE: TYPICAL DETAILS

SHEET: 95 OF 145

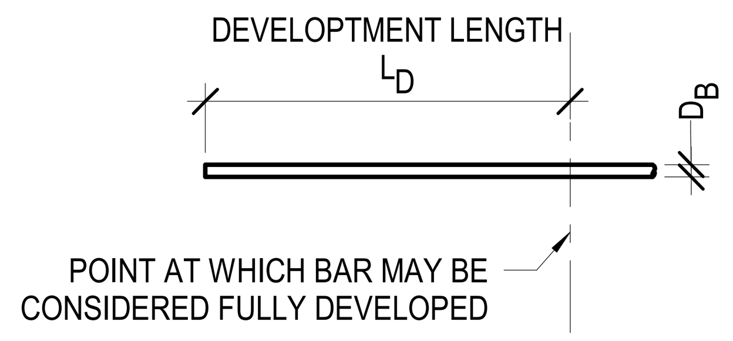
BID DELIVERABLE



REINFORCEMENT CENTERED IN CMU BLOCK (A)



STD HOOKS (C)

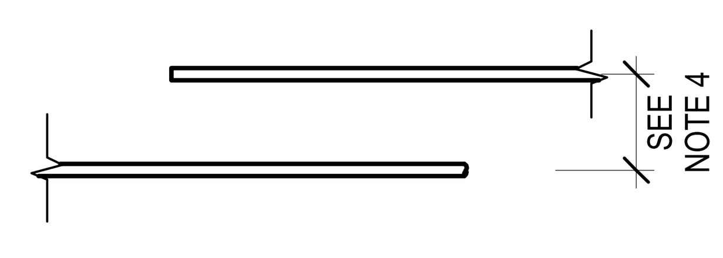


STRAIGHT DEVELOPMENT (D)

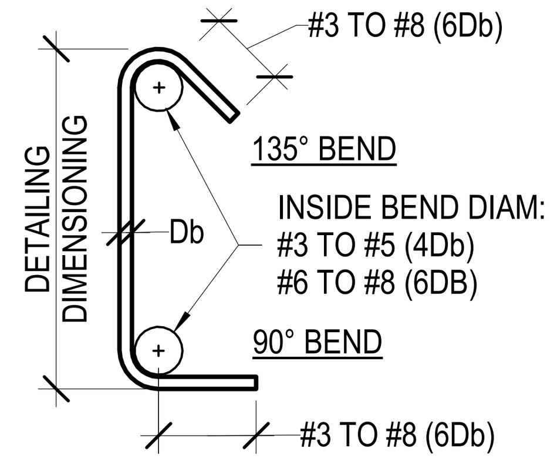
	BAR SIZE	STD HOOK L_e (IN)	$48D_B$ (IN)	L_D (IN)	LAP SPLICE (IN) U.N.O.
CMU WITH f'm=2,000 PSI (MIN)	#3	5	18	18	18
	#4	7	24	30	30
	#5	9	30	46	46
	#6	10	36	64	54
	#7	12	42	87	63
	#8	13	48	114	72
	#9	15	55	145	81

NOTES:
1. VALUES SHOWN ARE FOR GRADE 60 REINF DEVELOPED IN CMU.
2. REFER TO TYPICAL REINFORCEMENT DETAILS FOR INFO NOT SHOWN, AND FOR DEVELOPMENT IN CONCRETE.
3. USE OF HYTEN COUPLER (OR EQ. W/ ESR REPORT) IN LIEU OF LAP SPLICE @ CMU VERTICAL REINF. ARE ACCEPTED. (ICC-ESR-4275)
4. WHERE NON-CONTACT SPLICES ARE USED, REINFORCEMENT SHALL NOT BE SPACED FARTHER APPART THAN ONE-FIFTH THE REQUIRED LAP SPLICE NOR MORE THAN 8 INCHES APPART.

L_D =DEVELOPED LENTH
D_B =REINFORCING BAR DIAMETER.

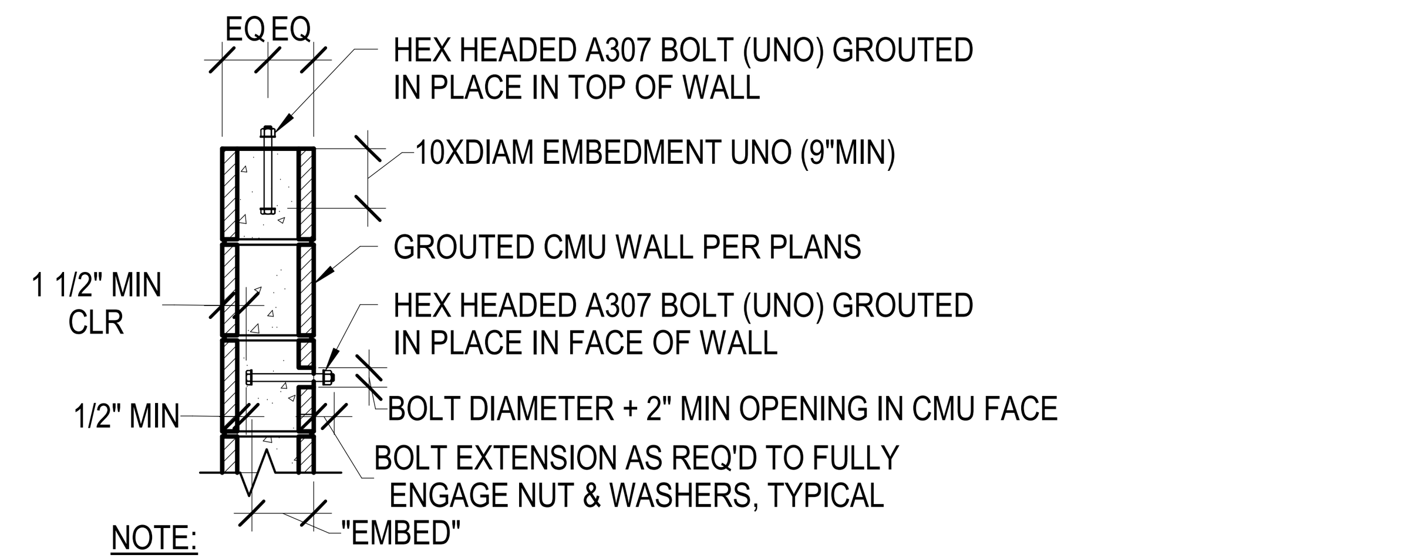


NON-CONTACT CAP SPLICE FOR CHORD AT SLOPED DIAPHRAGM (E)



STIRRUPS & TIES (F)

5 S-1.9 MASONRY REINFORCEMENT DETAILS & DEVELOPMENT LENGTHS
SCALE: N.T.S.

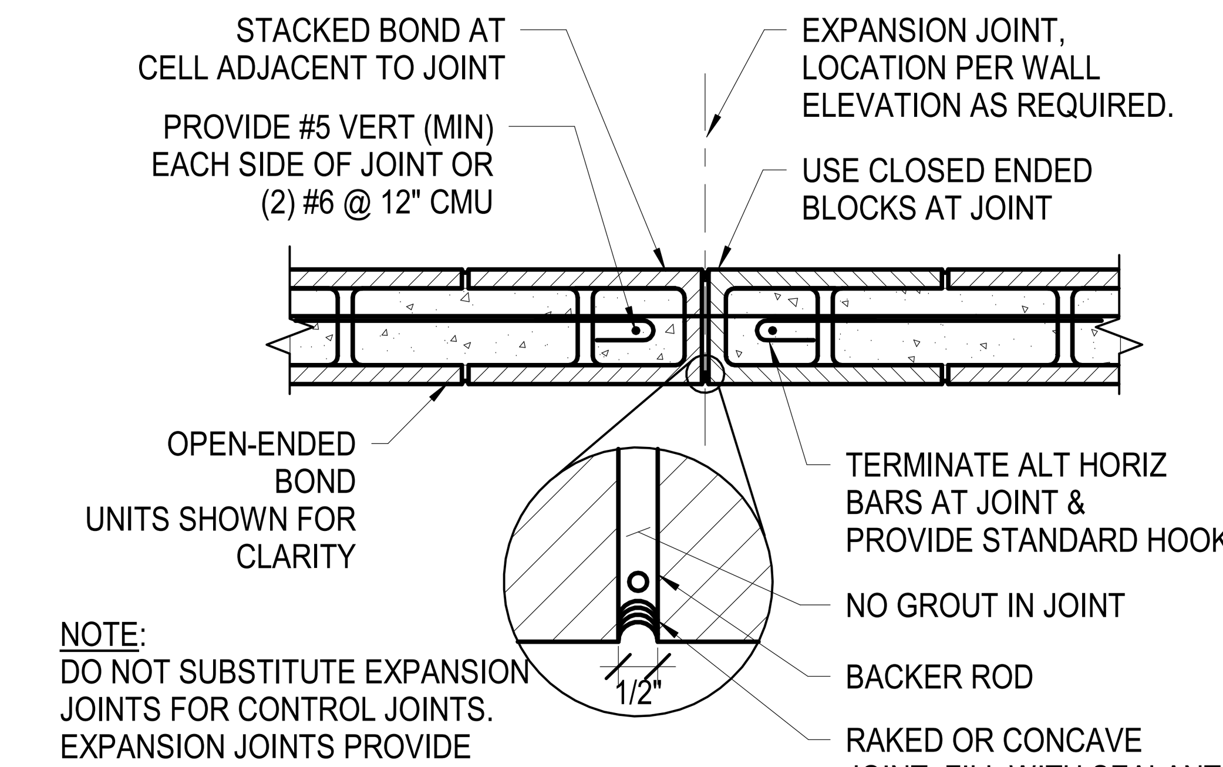


NOTE:
UNLESS DETAILED ON THESE PLANS, DO NOT PLACE BOLTS IN FACE OF WALL < 12 DIAM FROM OPENINGS OR EDGES WITHOUT APPROVAL FROM SEOR

MINIMUM EMBEDMENT TABLE					
DIAMETER OF BOLTS IN INCHES	1/2	5/8	3/4	7/8	1
EMBEDMENT IN INCHES (EMBED)	4	5	6	7	8
MIN. CMU WALL THICKNESS (INCHES)	6"	8"	8"	10"	12"

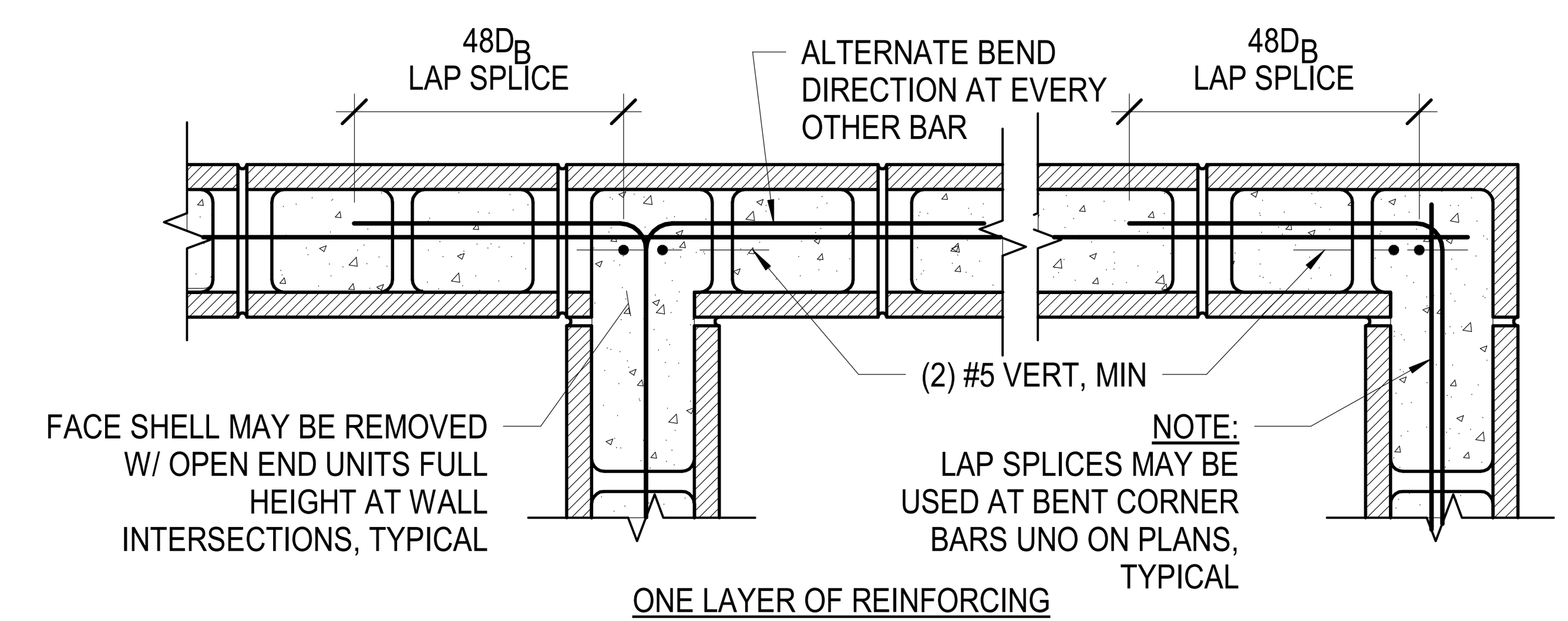
NOTES:
1. BOLTS CAST-IN MASONRY SHALL BE GROUTED IN PLACE WITH 1" OF GROUT BETWEEN BOLT AND MASONRY.
2. BOLTS SHALL BE A307 HEADED MACHINE BOLTS OR A36 ROD W/TACK WELDED HEX NUT.

3 S-1.9 HEADED BOLT GROUTED IN CMU WALL
SCALE: N.T.S.

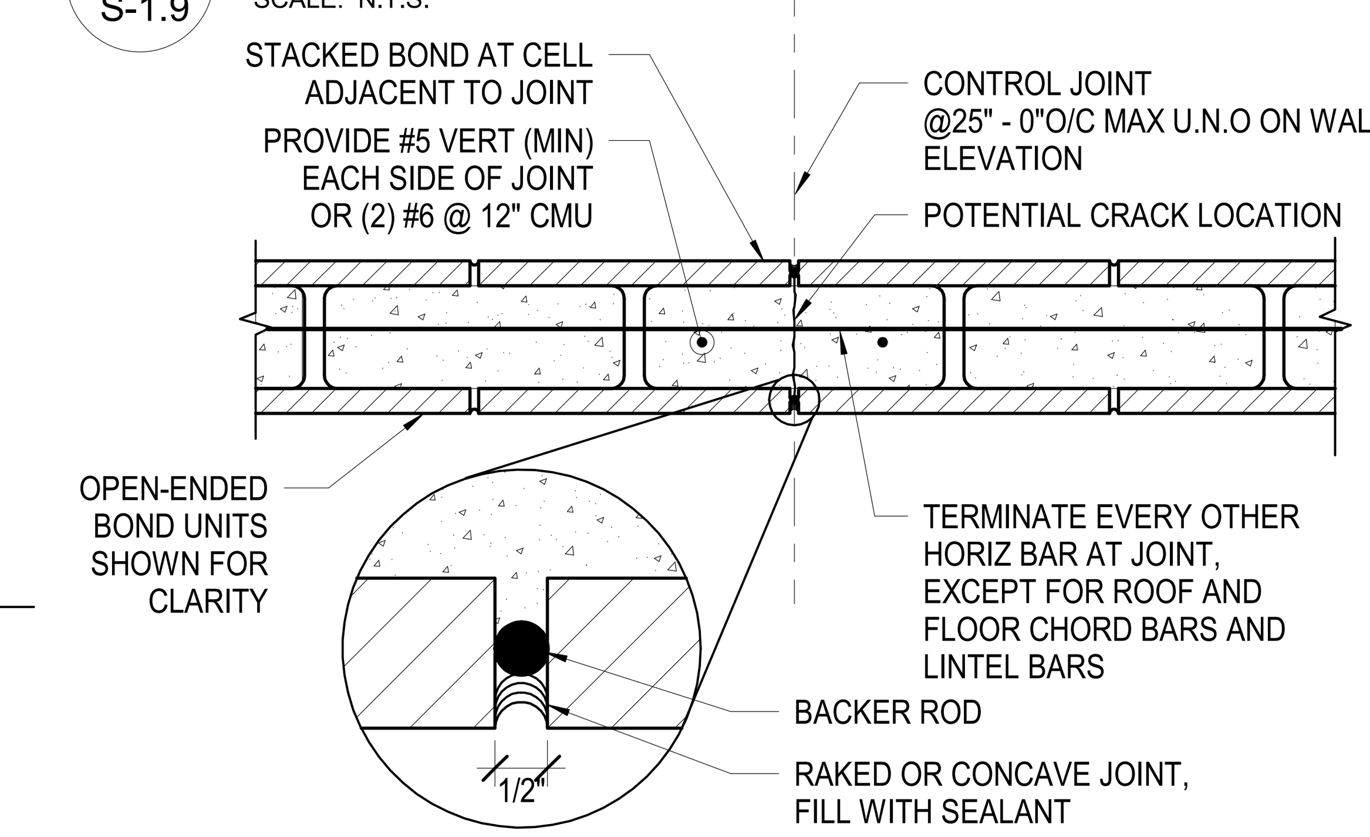


NOTE:
DO NOT SUBSTITUTE EXPANSION JOINTS FOR CONTROL JOINTS. EXPANSION JOINTS PROVIDE COMPLETE STRUCTURAL DISCONTINUITY, USE ONLY WHERE SPECIFICALLY NOTED ON THE PLANS.

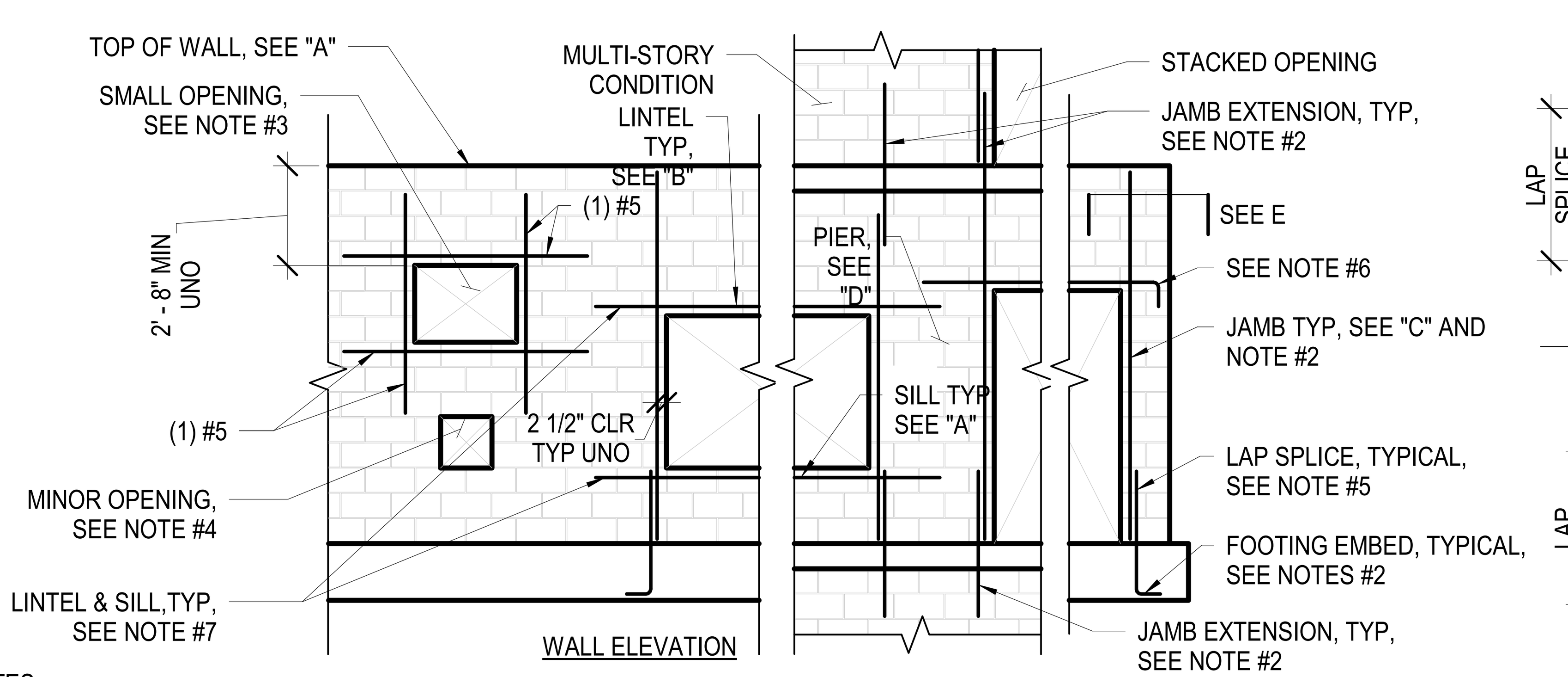
4 S-1.9 TYP CMU WALL EXPANSION JOINT
SCALE: N.T.S.

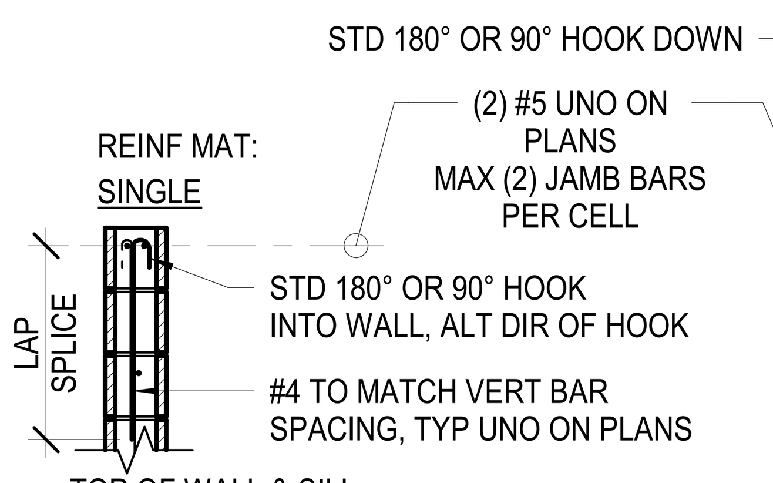


7 S-1.9 CONCRETE MASONRY WALL INTERSECTION
SCALE: N.T.S.

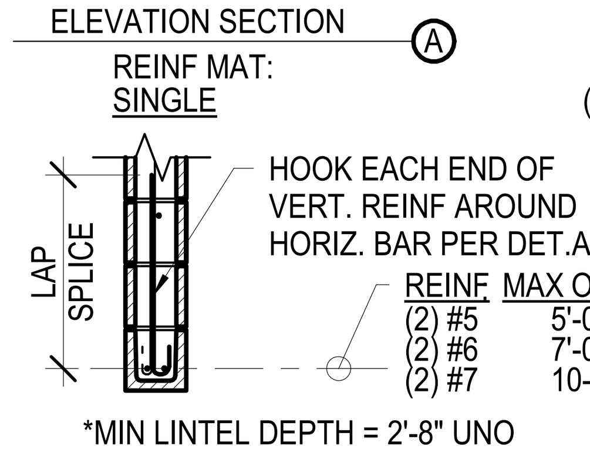


8 S-1.9 TYP. CMU WALL CONTROL JOINT (C.J.)
SCALE: N.T.S.



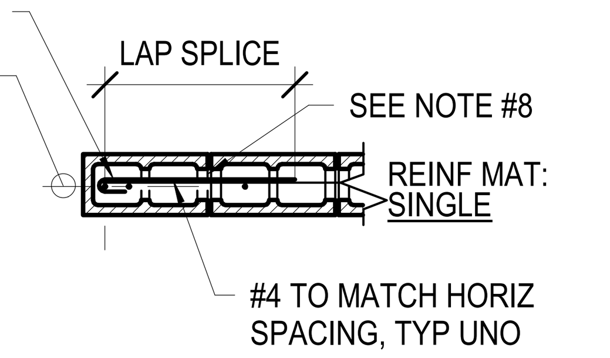


TOP OF WALL & SILL ELEVATION SECTION (A)

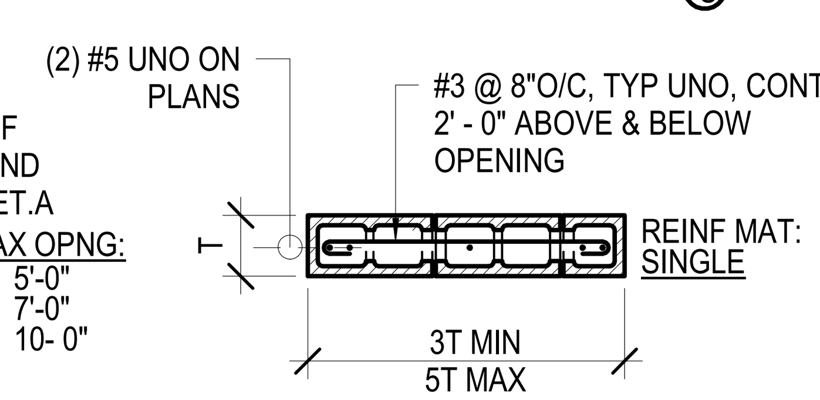


*MIN LINTEL DEPTH = 2'-8" UNO
SEE "A" FOR INFO NOT NOTED

LINTEL ELEV SECTION (B)

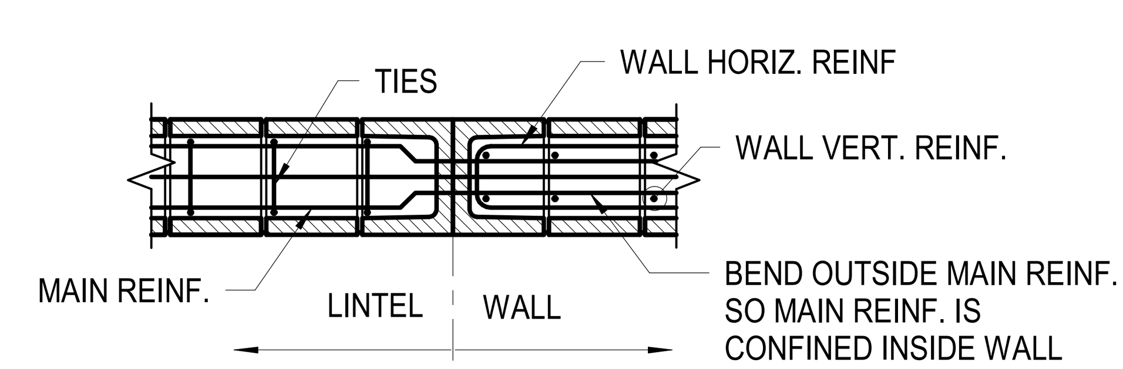


JAMB PLAN SECTION (C)



SEE "C" FOR INFO NOT NOTED

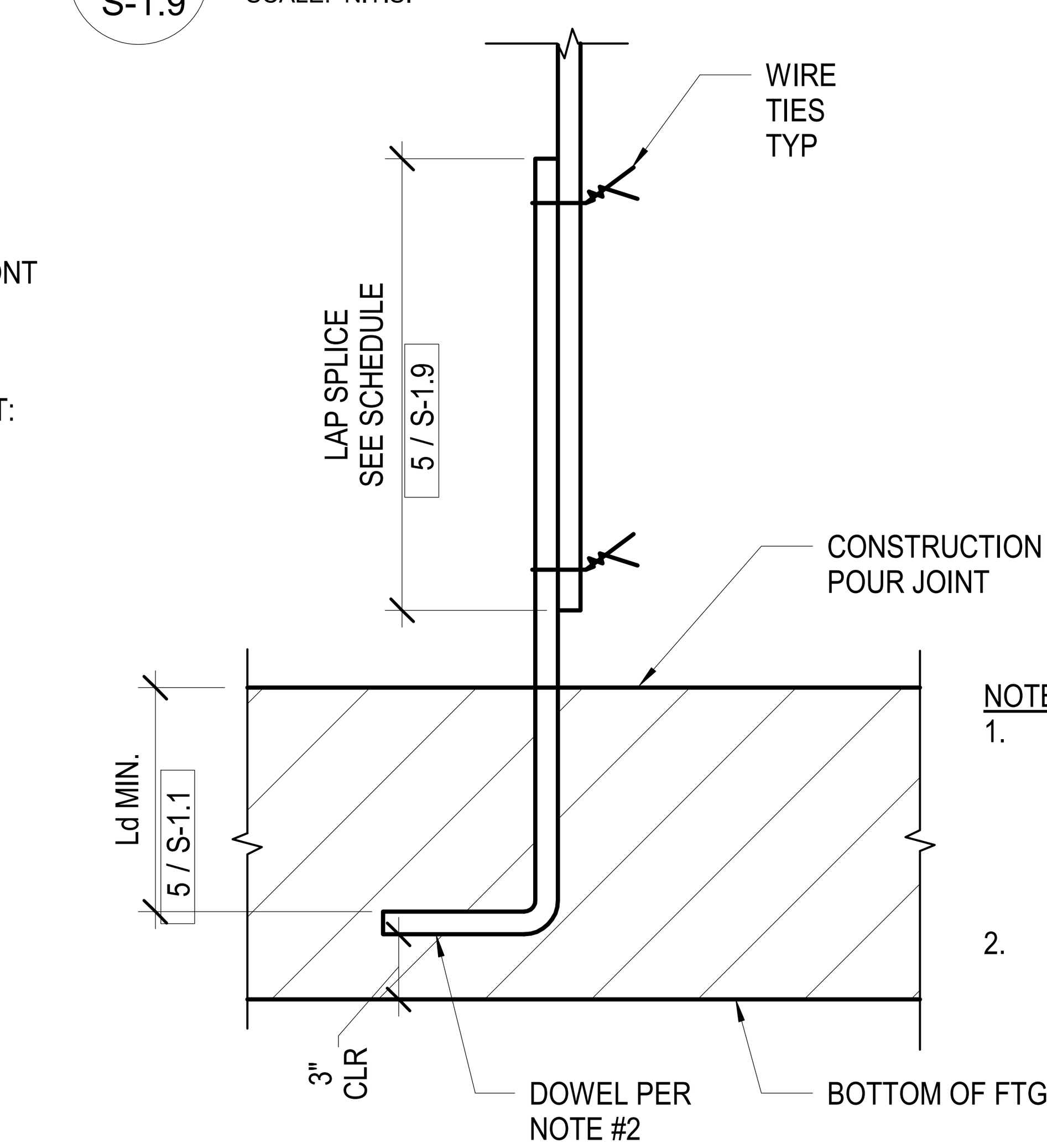
PIER PLAN SECTION (D)



LINTEL PLAN (E)

NOTES:
1. SEE PLANS FOR TYPICAL AND ADDITIONAL REINFORCEMENT.
2. FOR OPENINGS 36" OR LARGER IN WIDTH USE FULL HEIGHT JAMB BARS. EXTEND TO TOP OF WALL AT UPPER/SINGLE STORY, 48D MIN PAST FLOOR AND INTO FOOTING.
3. AT OPENINGS LESS THAN 36" IN WIDTH, EXTEND JAMB BARS 48D PAST EDGE OF OPENING.
4. FOR MINOR OPENINGS THAT DO NOT INTERRUPT TYPICAL REINF, ARE NO LARGER THAN 16" SQ, AND ARE AT LEAST 24" FROM ADJACENT OPENINGS OR WALL EDGE, NO ADDITIONAL REINF IS REQ'D UNO ON PLANS.
5. USE A TYPICAL LAP SPLICE UNO ON PLANS.
6. WHERE FULL EXTENSION IS NOT POSSIBLE, EXTEND BARS AS FAR AS POSSIBLE AND USE A STD HOOK.
7. EXTEND LINTEL AND SILL BARS 48D MINIMUM PAST EDGE OF OPENING.
8. AT FULL HEIGHT JAMB BARS, THE WEB AND SHELL MAY BE REMOVED TO FACILITATE INSTALLATION. THE CONTRACTOR SHALL ENSURE THAT GROUTING WILL NOT BE COMPROMISED IF THIS OPTION IS USED.

9 S-1.9 TYPICAL MINIMUM REINFORCEMENT FOR MASONRY OPENINGS
SCALE: N.T.S.



NOTES:
1. ALL VERTICAL REINFORCING FOR COLUMNS, PIERS AND WALLS SHALL BE DOWELED AS SHOWN EXCEPT SPECIFIC DETAILS OF DRAWINGS SHALL GOVERN IN CASES OF CONFLICT.
2. DOWELS SHALL BE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL REINF.

10 S-1.9 TYPICAL DOWELS AT CMU WALL
SCALE: N.T.S.

S-1.9

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CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

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SEAL:
APPROVED BY: ICTC ENGINEER DATE

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Fax. 949.679.9370
Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YOUNG KEUN NAM No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY: AN & RM
CHECK BY: YN & JA
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: TYPICAL DETAILS

SHEET: 96 OF 145

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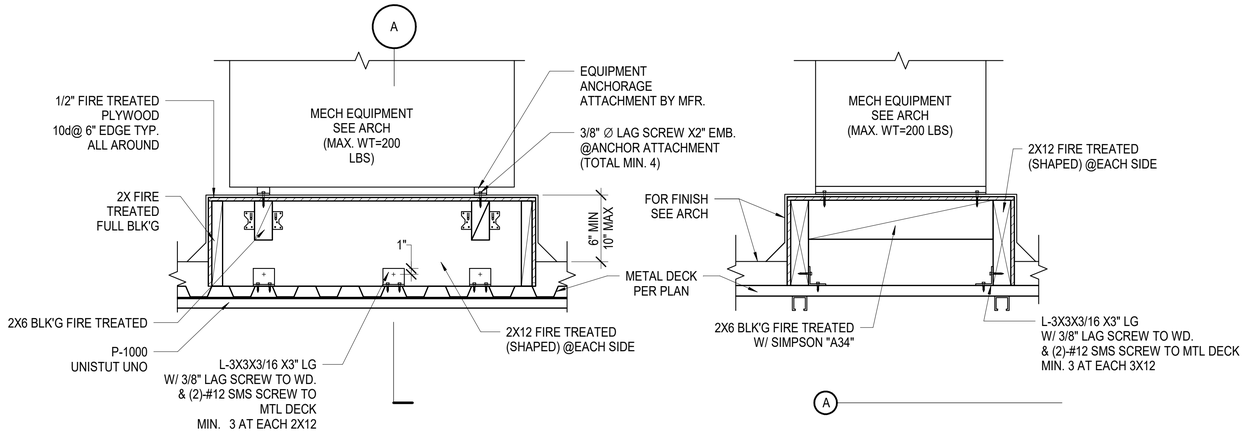

1
S-1.10

TYP MECH EQUIP PAD TO METAL DECK

SCALE: N.T.S.

S-1.10

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APPROVED BY:
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Project No: H612

SEAL:
REGISTERED PROFESSIONAL ENGINEER
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No. S4029
Exp. 9/30/24
STRUCTURAL
STATE OF CALIFORNIA

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FILE NAME:
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PROJECT DESCRIPTION:
CALEXICO INTERMODAL
TRANSIT CENTER

SHEET TITLE:
TYPICAL DETAILS

SHEET:
97
OF
145

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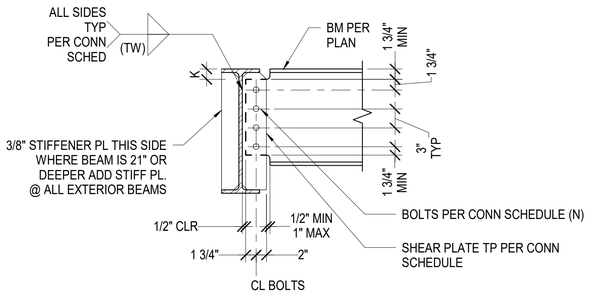
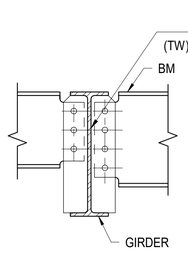


ONE-SIDED CONNECTION OCCURS WHERE OPPOSITE BEAMS ARE OFFSET BY 12" OR MORE

NOTE:
1. USE STANDARD BOLT HOLES

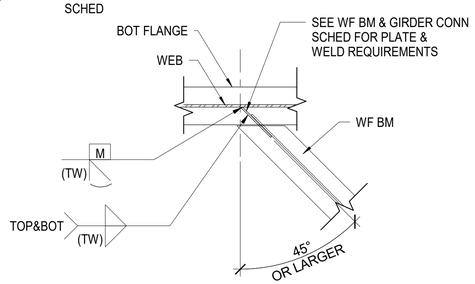
BEAM ONE SIDE



BEAM EACH SIDE

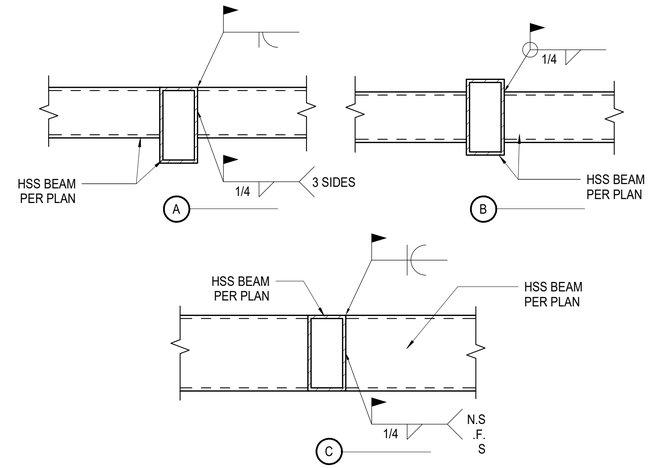
FOR ITEMS NOT SHOWN OR NOTED SEE "BEAM ONE SIDE"

TYP WF BEAM TO WF BEAM



PLAN VIEW

SKEWED BEAM CONNECTION



2 S-1.11 HSS BEAM TO HSS BEAM CONNECTION
SCALE: N.T.S.

DROP BEAM OR DEEPER BEAM THAN GIRDER CONNECTION

NOTE:
WHERE NUMBER OF REQUIRED BOLTS PER PLAN OR SCHEDULE ARE MORE THAN NUMBER OF BOLTS THAT FIT AT ONE ROW, USE MAXIMUM BOLTS AT FIRST ROW & BALANCE IN SECOND ROW (2 BOLTS MIN AT SECOND ROW).

WF BM & GIRDER CONNECTION SCHEDULE				
WF BM	(N) A325N BOLTS U.N.O.	(L) MIN PLATE / WELD LENGTH	(TP) MIN PLATE THICKNESS	(TW)[1] MIN WELD THICKNESS
W8	(2) 3/4"ø	5 1/2"	3/8"	1/4"
W10	(2) 3/4"ø	6"	3/8"	1/4"
W12	(3) 1"ø	9"	3/8"	1/4"
W14	(3) 1"ø	9"	3/8"	1/4"
W16	(4) 1"ø	12"	3/8"	1/4"
W18	(5) 1"ø	15"	1/2"[2]	3/8"
W21,24	(6) 1"ø	18"	1/2"[2]	3/8"
W27	(7) 1"ø	21"	1/2"[2]	3/8"
W30	(8) 1"ø	24"	1/2"[2]	3/8"
W33	(9) 1"ø	27"	1/2"[2]	3/8"
W36	(10) 1"ø	31"	1/2"[2]	3/8"

NOTES:
1. 5/16" MIN FOR COLUMN FLANGES GREATER THAN 3/4" THICK
2. PL 1/2" & THICKER SHALL BE GAS OR SAW CUT
3. ALL BOLT HOLES SHALL BE STD HOLES UNO.

3 S-1.11 TYP HSS BM TO COL CONNECTION
SCALE: N.T.S.

1 S-1.11 TYPICAL BEAM TO BEAM CONNECTION
SCALE: N.T.S.

S-1.11

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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

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ENGINEER OF WORK:
VCA ENGINEERS INC
CIVIL • STRUCTURAL
2151 Michelson Dr. #240
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. S4029 — Exp. 9/30/24 — Structural — STATE OF CALIFORNIA

1/31/2024 2:08:59 PM

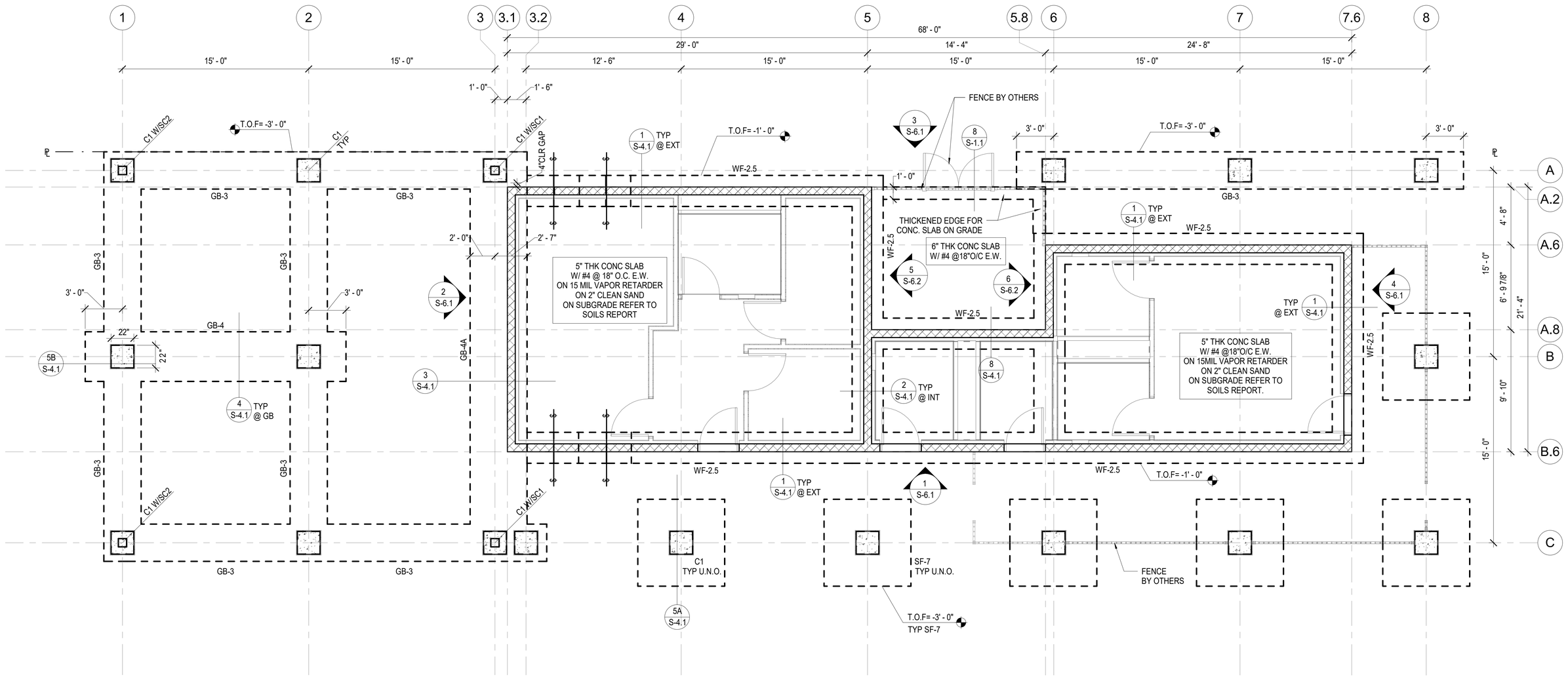
DRAWN BY:	AN & RM
CHECK BY:	YN & JA
DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: TYPICAL DETAILS

SHEET: 98 OF 145

BID DELIVERABLE



1 BUILDING FOUNDATION PLAN

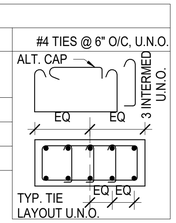
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES:

1. FOR GENERAL NOTES, SEE S-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S-1.0 SERIES.
3. 8" THK CMU. WALL. SEE ELEV FOR ADDITIONAL INFORMAITON.
4. SEE DETAIL ON SHEETS S-1.4 THRU S-1.6 FOR ALL INTERIOR METAL STUDS WALL CONSTRUCTION.
6. TOP OF FOOTING (T.O.F.)= -X'-X" (U.N.O.)
7. $ ——— $ INDICATES STEP IN FOOTING (8 / S-1.3)
8. INDICATES CONC. COL (5 / S-4.1) (7A / S-4.1)
   INDICATES CONC. COL W/ STL POST EMBED. (6 / S-4.1) (7B / S-4.1)

10. GB-# INDICATES GRADE BEAM.

GRADE BEAM SCHEDULE				
MARK	DIMENSIONS		REINFORCEMENT	
	WIDTH	DEPTH	TOP BARS	BOTTOM BARS
GB-3	3' - 0"	2' - 0"	(3)-#7	(3)-#7
GB-4	4' - 0"	2' - 0"	(4)-#7	(4)-#7
GB-4A	4' - 7"	2' - 0"	(5)-#7	(5)-#7



11. WF-# INDICATES WALL FOOTING.

WALL FOOTING SCHEDULE					
MARK	DIMENSIONS		REINFORCEMENT		#4 TIES @ 12" O/C, U.N.O.
	WIDTH	DEPTH	TOP BARS	BOTTOM BARS	
WF-2.5	2' - 6"	1' - 6"	(3)-#5	(3)-#5	ALT. CAP

12. C# INDICATES CONC. COL.

MARK	SIZE (W X D)	VERT. REINF.	TIES
C1	22" X 22"	(12)-#7	#4 TIES @ 12" O/C

13. SF-# INDICATES SPREAD FOOTING
SEE SPREAD FOOTING SCHEDULE FOR ADDITIONAL INFO.

WALL FOOTING SCHEDULE					
MARK	DIMENSIONS			REINFORCEMENT	
	LENGTH	WIDTH	DEPTH	LONG	SHORT
SF-7	7' - 0"	7' - 0"	18"	(6)-#6 T&B	(6)-#6 T&B

13. SC-# INDICATES STEEL COL

SC1	HSS 8X8X1/2
SC2	HSS 8X8X1/4

NORTH

S-2.1

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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. S4029 Exp. 9/30/24 — STRUCTURAL — STATE OF CALIFORNIA

1/31/2024 2:09:01 PM

DRAWN BY:	AN & RM
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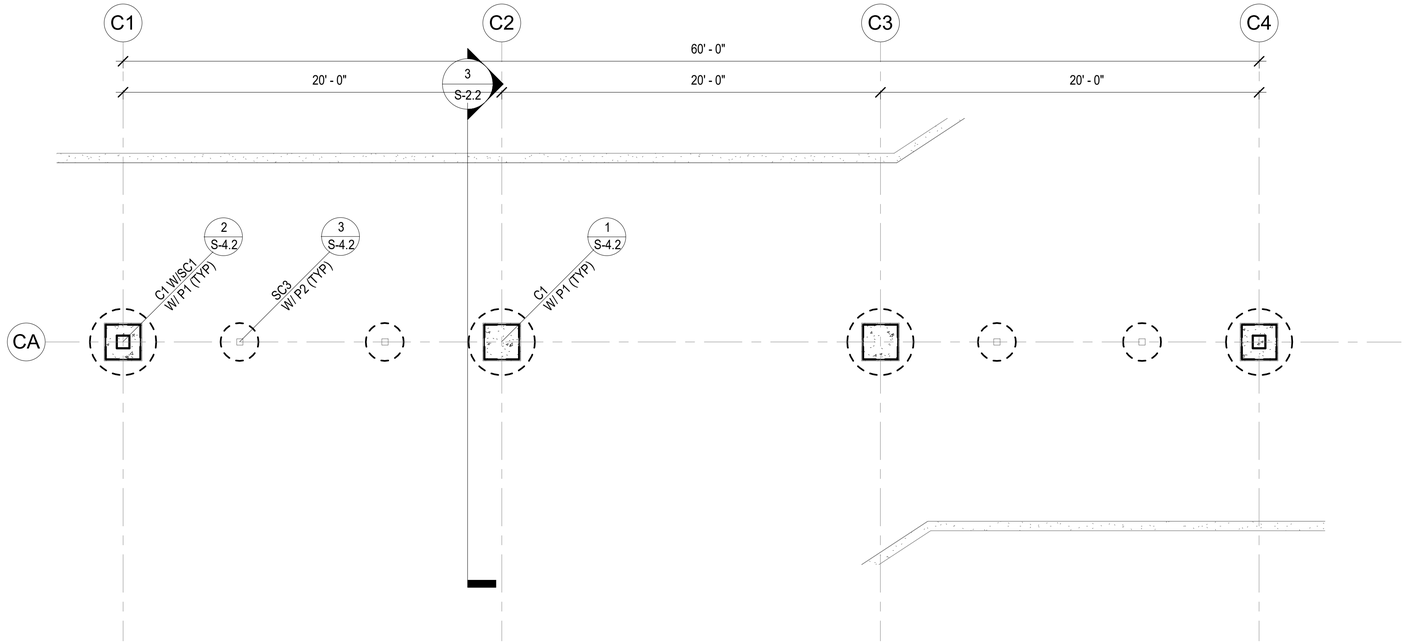
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
FOUNDATION PLAN

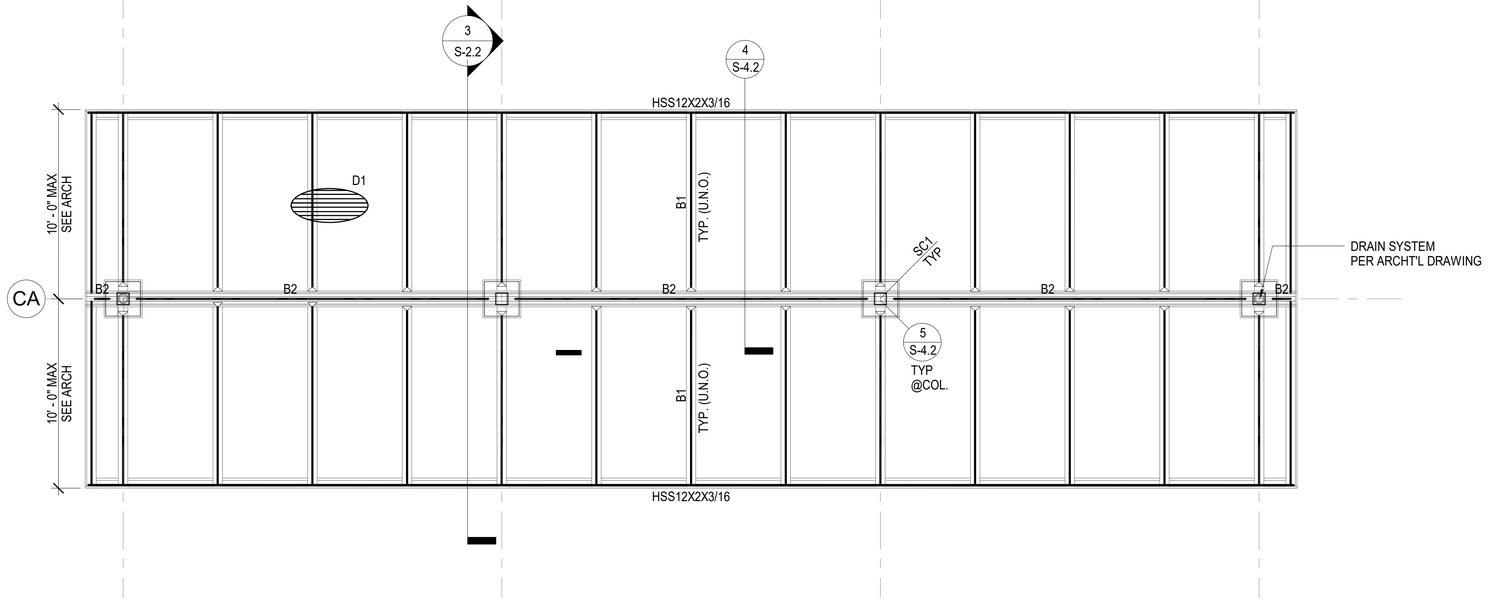
SHEET: 99 OF 145

BID DELIVERABLE



1 CANOPY FOUNDATION PLAN

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



2 CANOPY ROOF FRAMING PLAN

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

CANOPY NOTES:

1. FOR GENERAL NOTES, SEE S-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S-1.0 SERIES.
3. P# INIDCATES DRILLED PIER.

DRILLED PIER SCHEDULE				
MARK	DIA	VERT REINF	MIN EMBEDMENT TO NATIVE SOIL	TIES
P1	42"ø	(12)-#7	13' - 0"	#4 @ 12" O.C.
P2	24"ø	(8)-#5	4' - 0"	#3 @ 12" O.C.

4. B# INIDCATES BEAM.

B1	HSS 10 X 6 X 1/4
B2	HSS 16 X 8 X 1/2

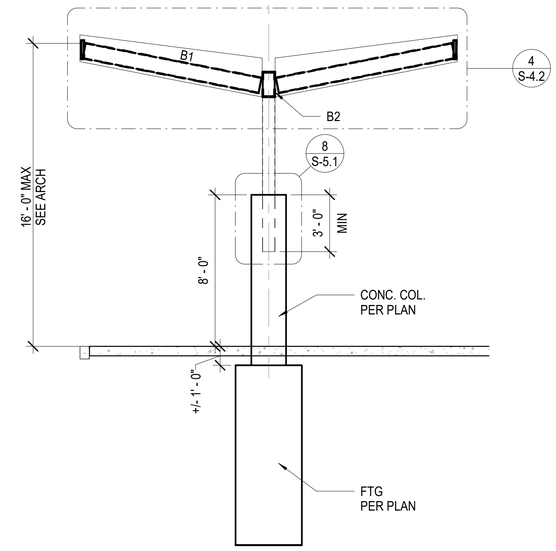
5. SC# INIDCATES STEEL COLUMN.

SC1	HSS 8 X 8 X 1/2
SC2	HSS 8 X 8 X 1/4
SC3	HSS 4 X 4 X 1/4

6. C# INDICATES CONCRETE COLUMN.

MARK	SIZE (W X D)	VERT REINF	TIES
C1	22" X 22"	(12)-#7	#4 @ 12" O/C

7. INDICATES CONC COL (1 / S-4.2) (7A / S-4.1)
   INDICATES CONC COL W/ STL POST EMBED (2 / S-4.2) (7B / S-4.1)
8. INDICATES MTL DECK SEE (9 / S-1.8) FOR ADDITIONAL INFORMATION.



3 CANOPY FRAME ELEVATION

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

NORTH

S-2.2

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Tel. 949.679.0870
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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YOUN KEUN AHN No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

1/31/2024 2:09:02 PM

DRAWN BY:	AN & RM
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DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
CANOPY FOUNDATION & ROOF FRAMING PLAN

SHEET: 100 OF 145

BID DELIVERABLE

1 LOW PARAPET & LOW CANOPY FRAMING PLAN

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

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S-1.0 SERIES.
3. [hatched box] 8" THK CMU WALL. (WHERE [dashed box] INDICATES WALL BELOW) SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. T.O.S. = VARIES. VERIFY WITH ARCHT'L DRAWINGS REFER TO ARCHT'L FOR ROOF SLOPES
5. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL 2 / S-1.11
6. B# INIDCATES BEAM.

B3	HSS 10 X 6 X 1/4
B3A	HSS 10 X 8 X 1/4
B4	HSS 12 X 6 X 1/2
B5	W 12 X 26
B6	HSS 5X3X1/4

7. SC# INIDCATES STEEL COL.

SC1	HSS 8 X 8 X 1/2
SC2	HSS 8 X 8 X 1/4

8. TB# INIDCATES TREILLIES BEAM.

TB1	HSS 8 X 6 X 1/4
TB2	HSS 8 X 2 X 1/8

9. [ellipse symbol] METAL DECK SEE 9 / S-1.8 FOR ADDITIONAL INFORMATION.
10. [shaded box] INDICATE ROOF METAL DECK COVERED AREA.

NORTH

S-3.1

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Project No: H612

SEAL:
REGISTERED PROFESSIONAL ENGINEER YOUNG KEUN NA No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

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DRAWN BY: AN & RM
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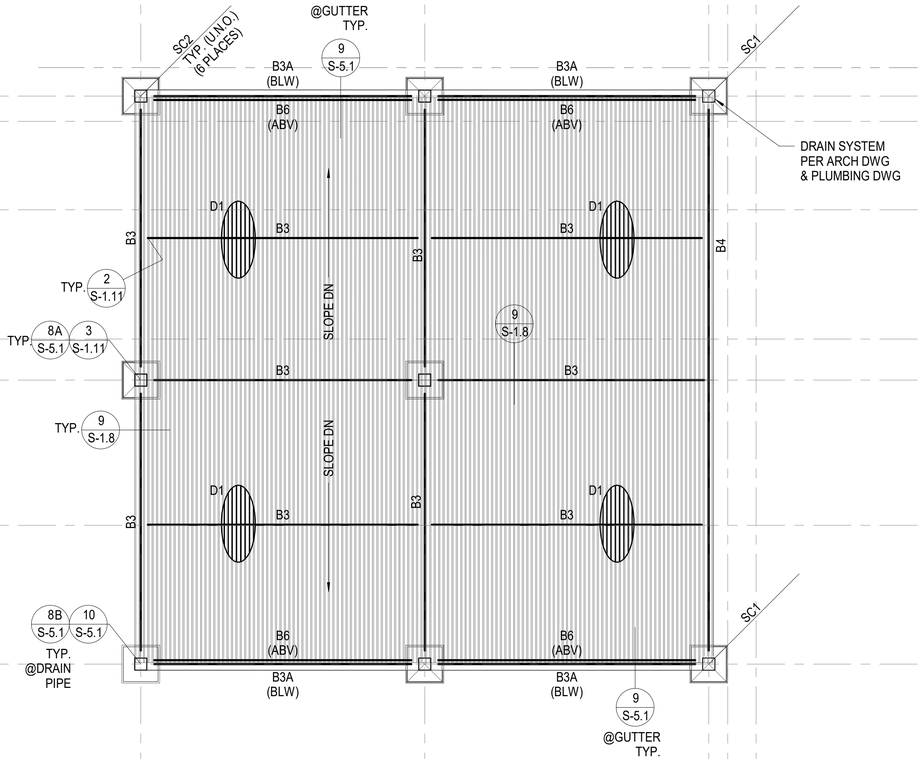
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
LOW ROOF FRAMING PLAN

BID DELIVERABLE



1 HIGH CANOPY FRAMING PLAN

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

ROOF FRAMING NOTES:

1. FOR GENERAL NOTES, SEE S-0.0 SERIES.
2. FOR TYPICAL DETAILS, SEE S-1.0 SERIES.
3. 8" THK CMU WALL. (WHERE INDICATES WALL BELOW) SEE ELEVATIONS FOR ADDITIONAL INFORMATION.
4. T.O.S. = VARIES. VERIFY WITH ARCHT'L DRAWINGS REFER TO ARCHT'L FOR ROOF SLOPES
5. FOR TYPICAL BEAM TO BEAM CONNECTIONS, SEE DETAIL 2 / S-1.11
6. B# INIDCATES BEAM.

B3	HSS 10 X 6 X 1/4
B3A	HSS 10 X 8 X 1/4
B4	HSS 12 X 6 X 1/2
B5	W 12 X 26
B6	HSS 5X3X1/4

7. SC# INIDCATES STEEL COL.

SC1	HSS 8 X 8 X 1/2
SC2	HSS 8 X 8 X 1/4

8. METAL DECK SEE 9 / S-1.8 FOR ADDITIONAL INFORMATION.

NORTH

S-3.2

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ENGINEER OF WORK:
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Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YUNKEUN KA No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

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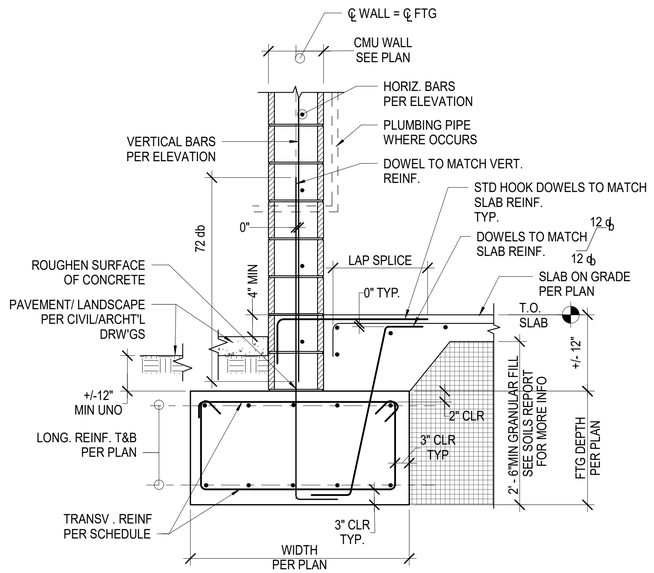
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
HIGH ROOF FRAMING PLAN

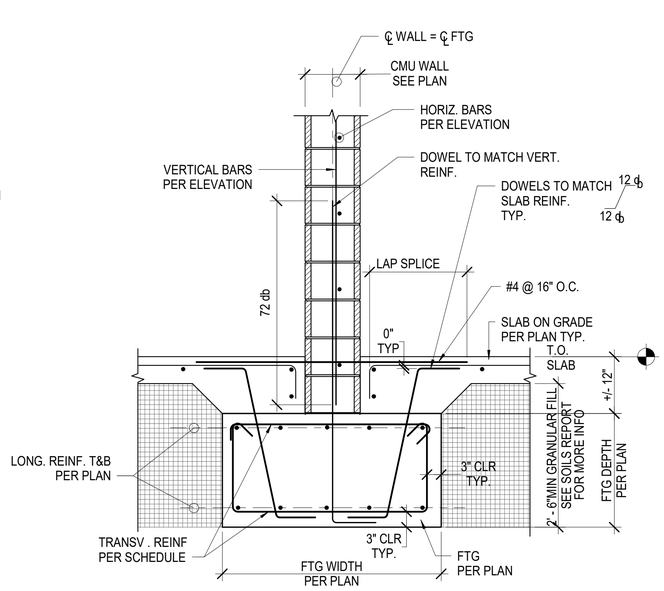
SHEET: 102 OF 145

BID DELIVERABLE



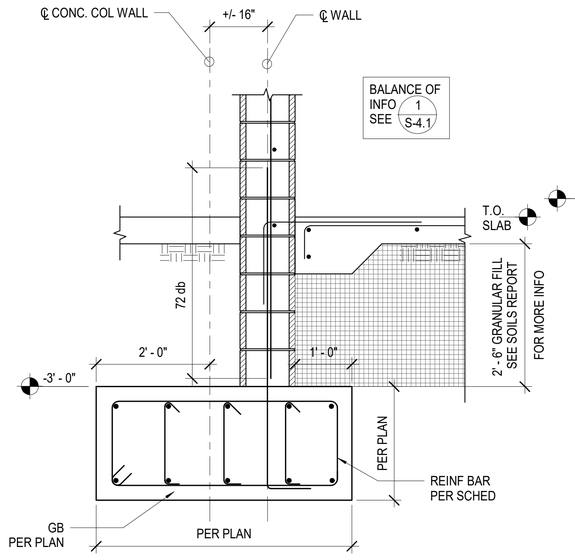
1 S-4.1 WALL FOOTING @CONC. WALL (BLDG EXTERIOR)

SCALE: N.T.S.



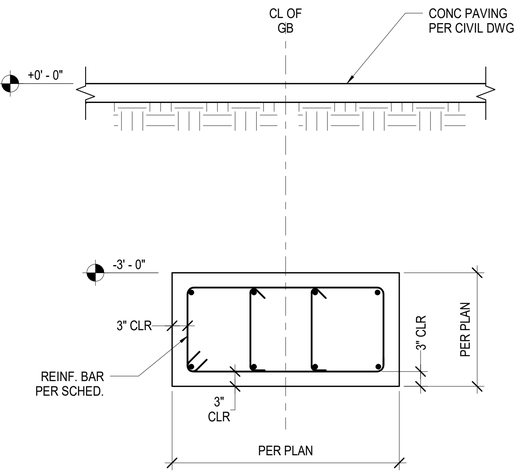
2 S-4.1 INT. CMU WALL FOOTING DETAIL

SCALE: N.T.S.



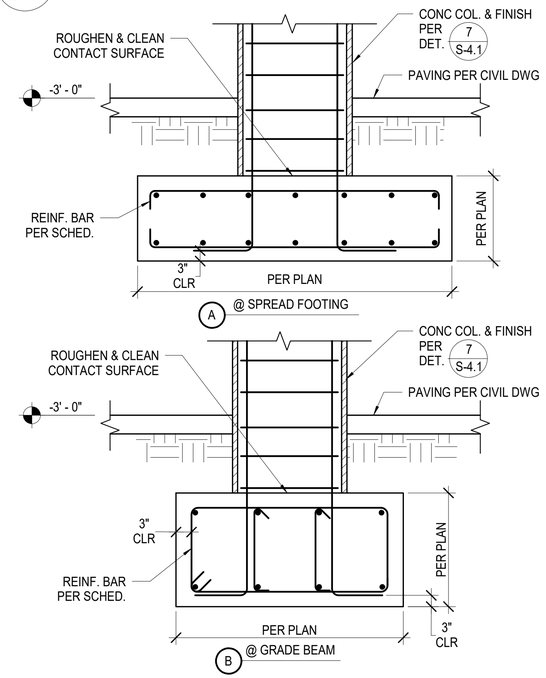
3 S-4.1 DETAIL

SCALE: N.T.S.



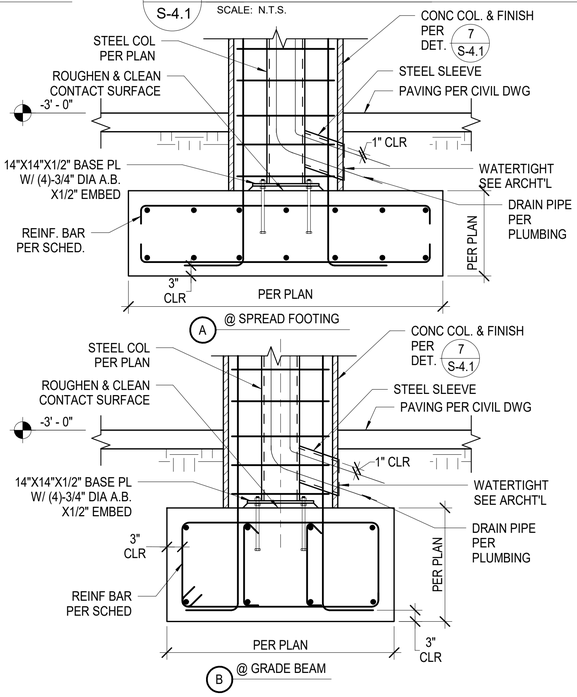
4 S-4.1 GRADE BEAM

SCALE: N.T.S.



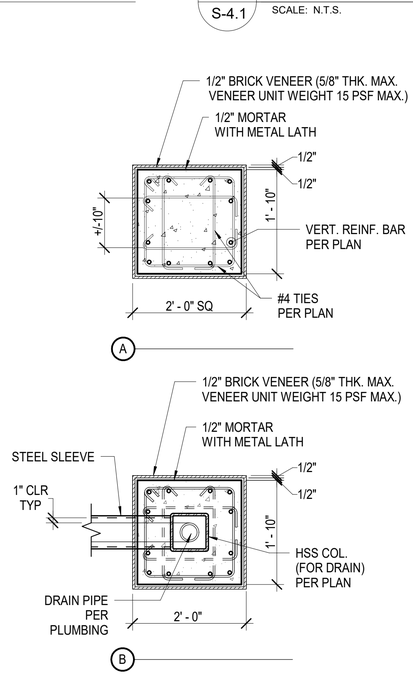
5 S-4.1 CONC COL FOOTING

SCALE: N.T.S.



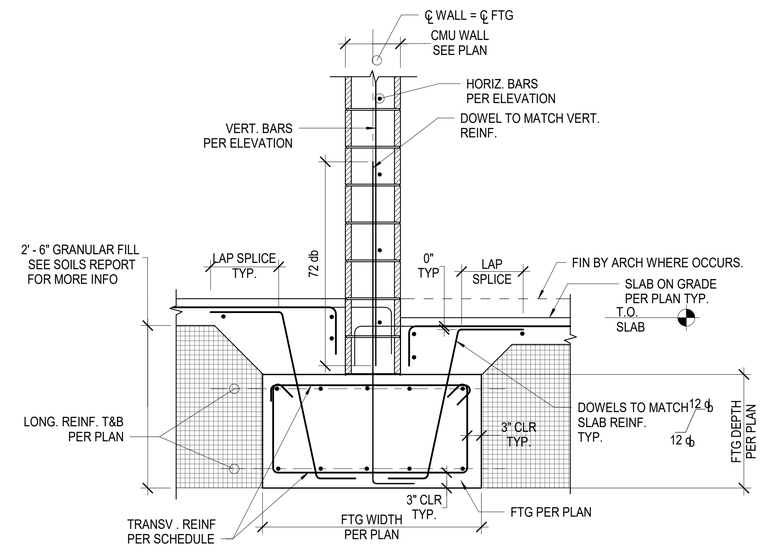
6 S-4.1 CONC COL W/ STEEL POST FOR DRAIN FOOTING

SCALE: N.T.S.



7 S-4.1 CONCRETE COLUMN

SCALE: N.T.S.



8 S-4.1 CMU WALL FOOTING W/ DEPRESSED DETAIL

SCALE: N.T.S.

S-4.1

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PROJECT:	ICTC
FILE NAME:	
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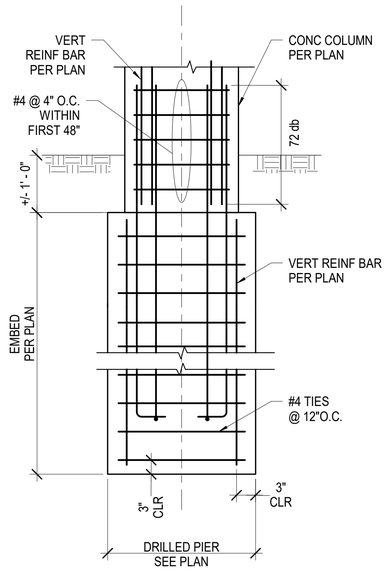
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

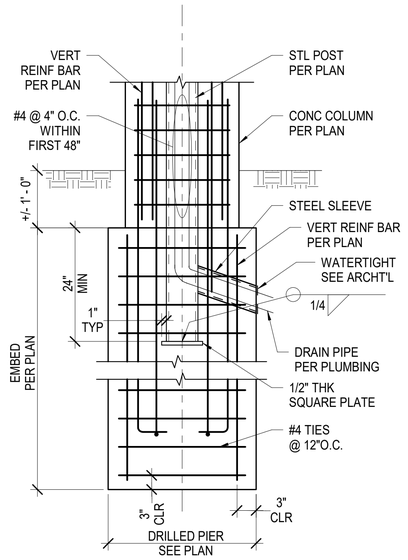
SHEET TITLE: FOUNDATION DETAILS

SHEET: 103 OF 145

BID DELIVERABLE



1 S-4.2 CONCRETE COLUMN FOUNDATION
SCALE: N.T.S.



2 S-4.2 CONCRETE COLUMN FOUNDATION
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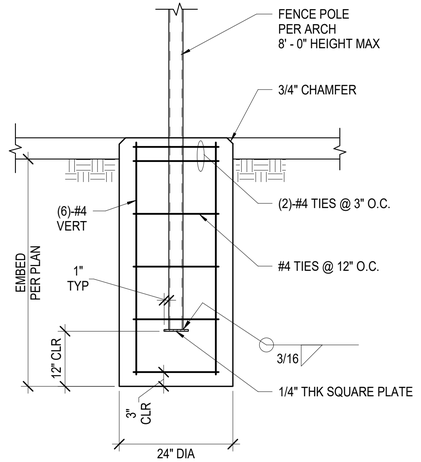
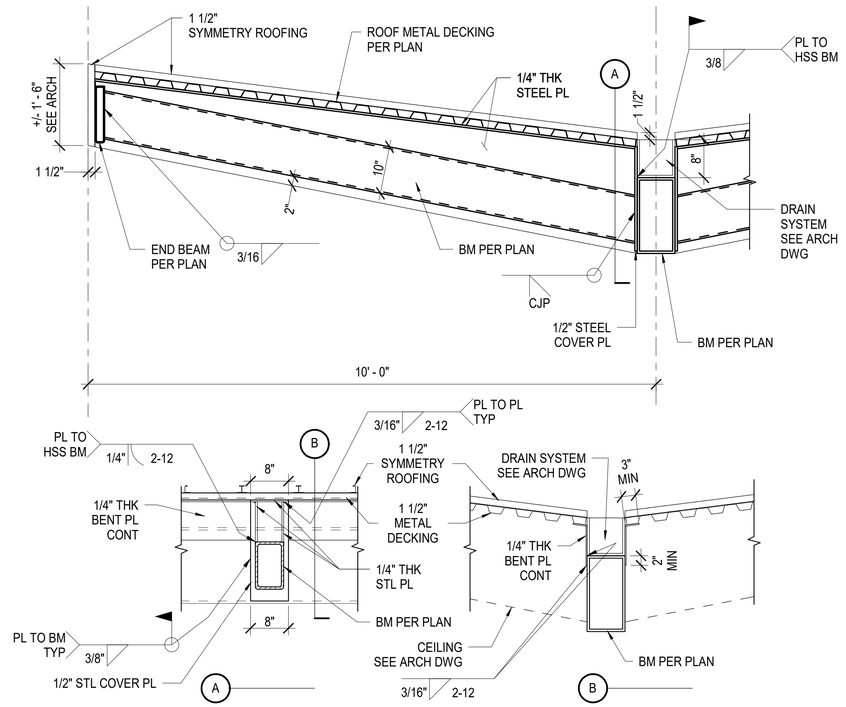


SEE ARCH PLAN FOR LOCATION

3 S-4.2 SHADE STRUCTURE FOOTING
SCALE: N.T.S.



4 S-4.2 DETAIL
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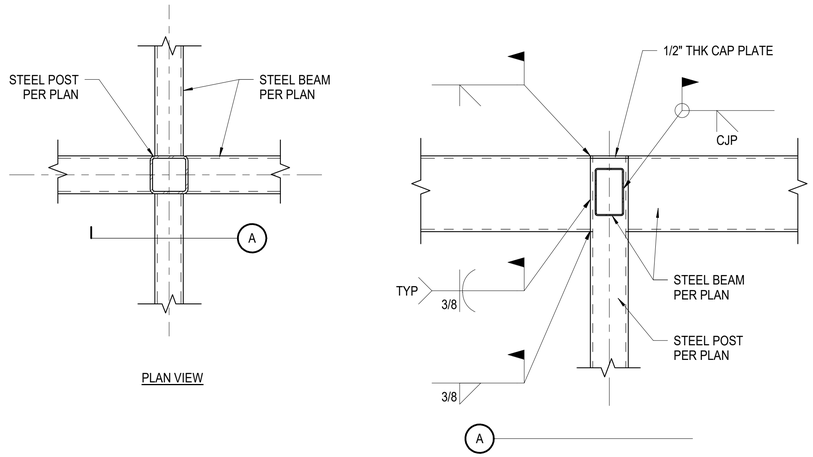

5 S-4.2 HSS BM TO COL. MOMENT CONNECTION
SCALE: 3/4" = 1'-0"

S-4.2

NO.	BY:	REVISION COMMENTS

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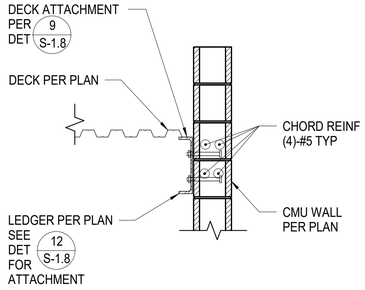
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

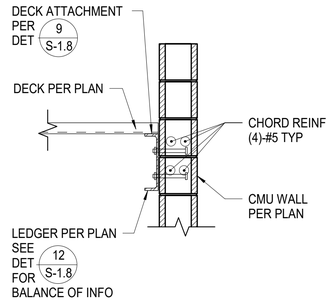
SHEET TITLE: FOUNDATION DETAILS

SHEET: 104 OF 145

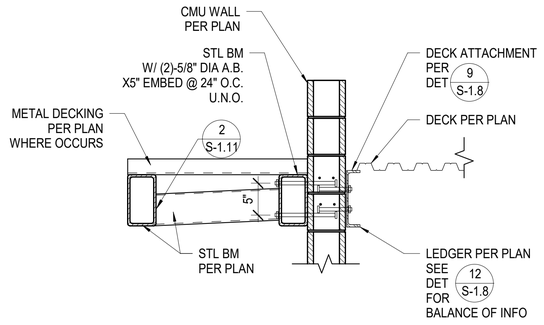
BID DELIVERABLE



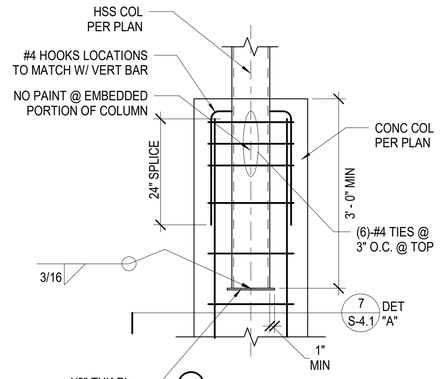
1 S-5.1 ROOF MTL DECK @ CMU (EXT)
SCALE: N.T.S.

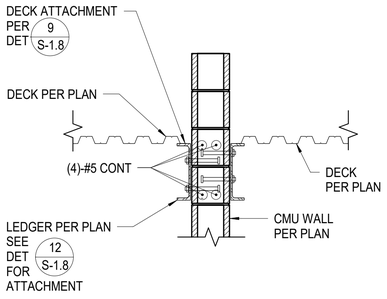


2 S-5.1 ROOF MTL DECK @ CMU (EXT)
SCALE: N.T.S.

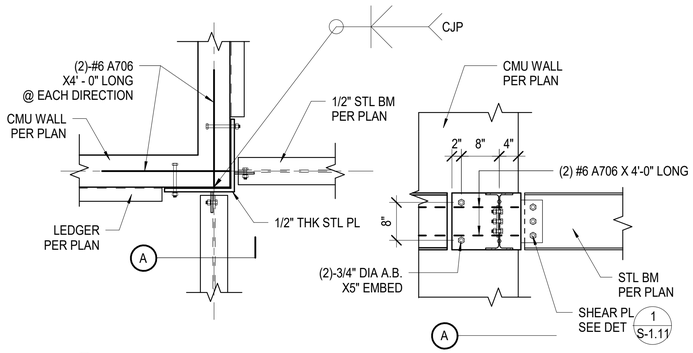


3 S-5.1 TRELLIS AT CMU WALL
SCALE: N.T.S.

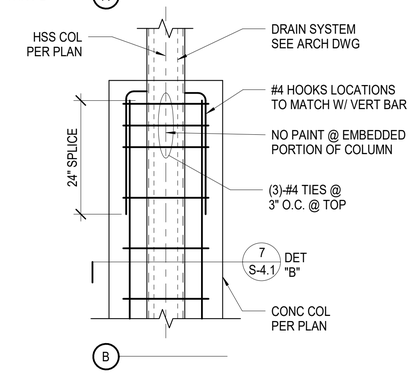




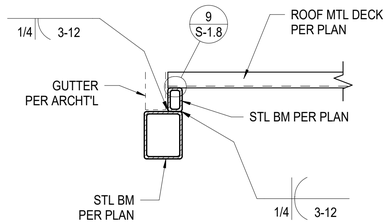
5 S-5.1 ROOF MTL DECK @ CMU (INT)
SCALE: N.T.S.



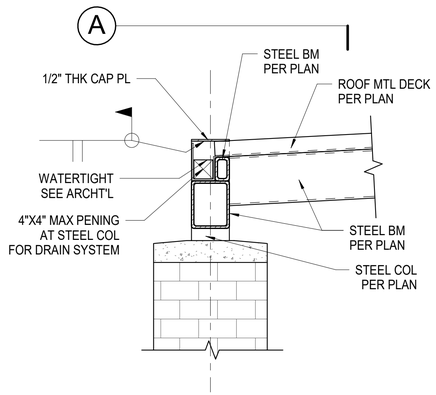
6 S-5.1 STEEL BM TO CMU WALL
SCALE: N.T.S.



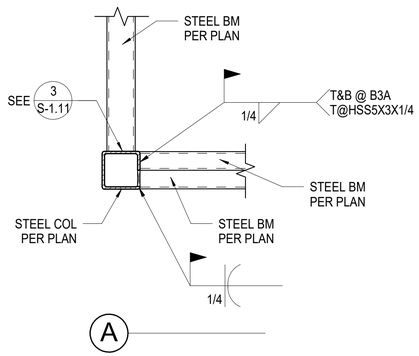
8 S-5.1 CONCRETE COLUMN AND STEEL POST
SCALE: N.T.S.

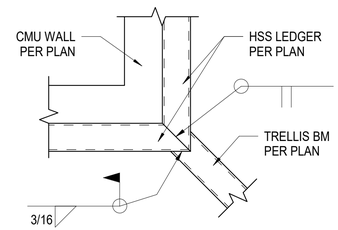


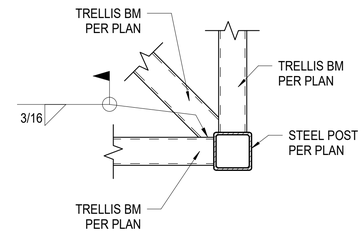
9 S-5.1 ROOF MTL DECK AT GUTTER
SCALE: N.T.S.



10 S-5.1 ROOF MTL DECK AT GUTTER
SCALE: N.T.S.







12 S-5.1 HSS BM ANGLED CONNECTION
SCALE: N.T.S.

S-5.1

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
VCA ENGINEERS INC
CIVIL + STRUCTURAL
2151 Michelson Dr. #240
Irvine, CA 92612
Tel. 949.679.0870
Fax. 949.679.9370
Project No: H612

SEAL: REGISTERED PROFESSIONAL ENGINEER YUNG N. KEUN No. S4029 Exp. 9/30/24 STRUCTURAL STATE OF CALIFORNIA

DRAWN BY:	AN & RM
CHECK BY:	YN & JA
DATE:	02/01/2024
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

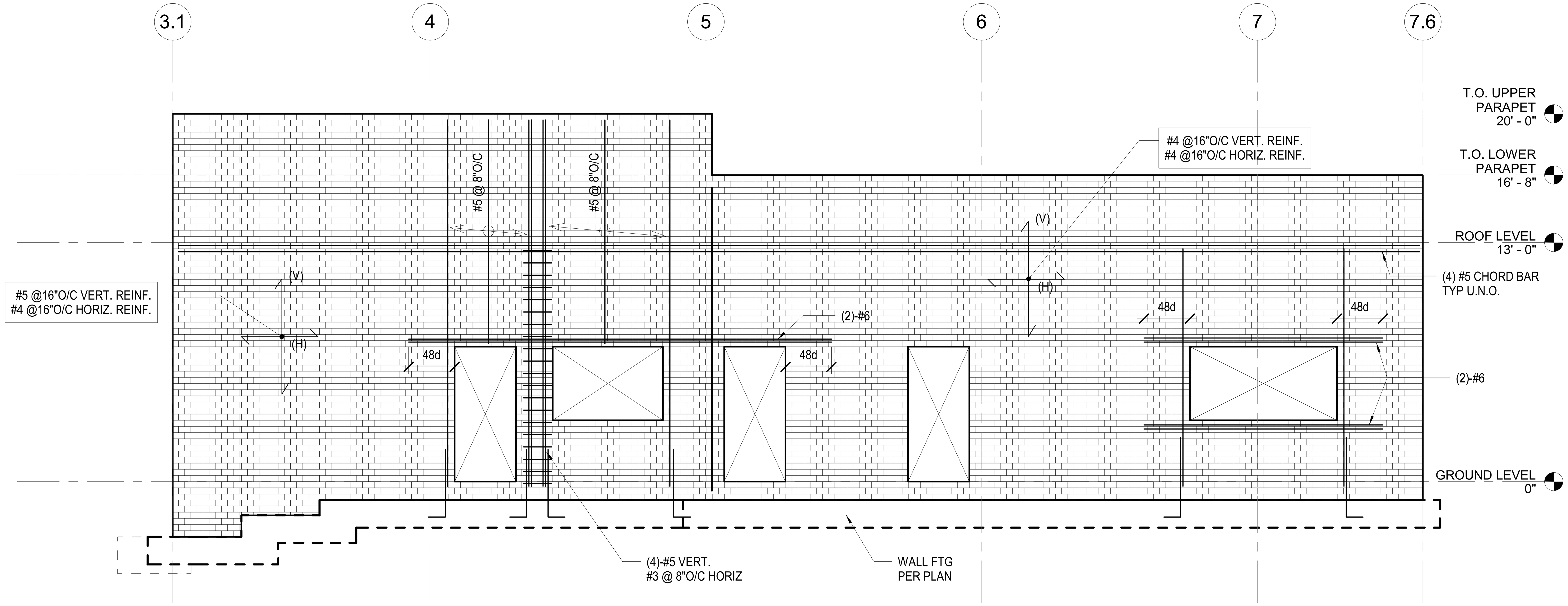
1/31/2024 2:09:05 PM

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
FRAMING DETAILS

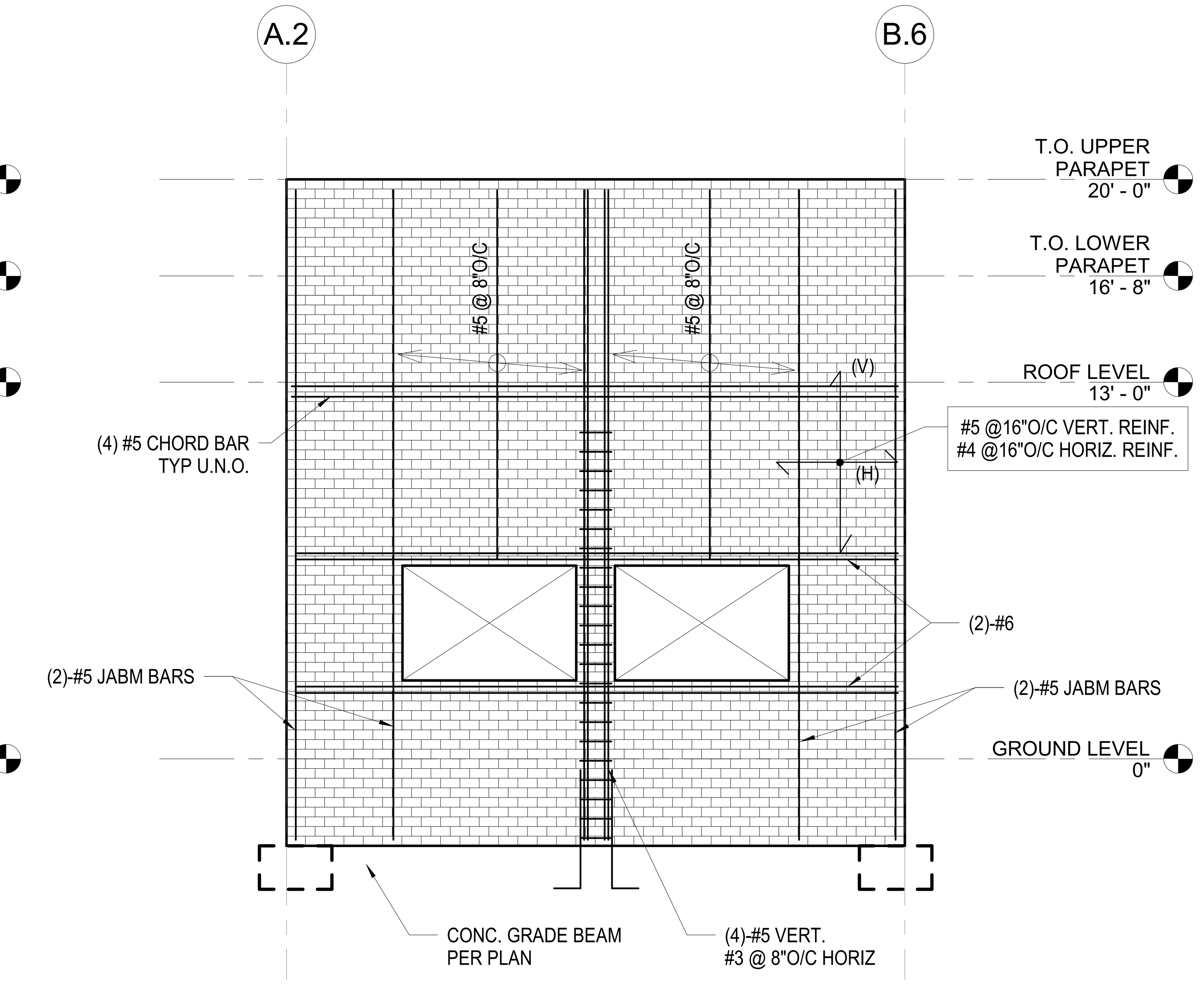
SHEET: 105 OF 145

BID DELIVERABLE



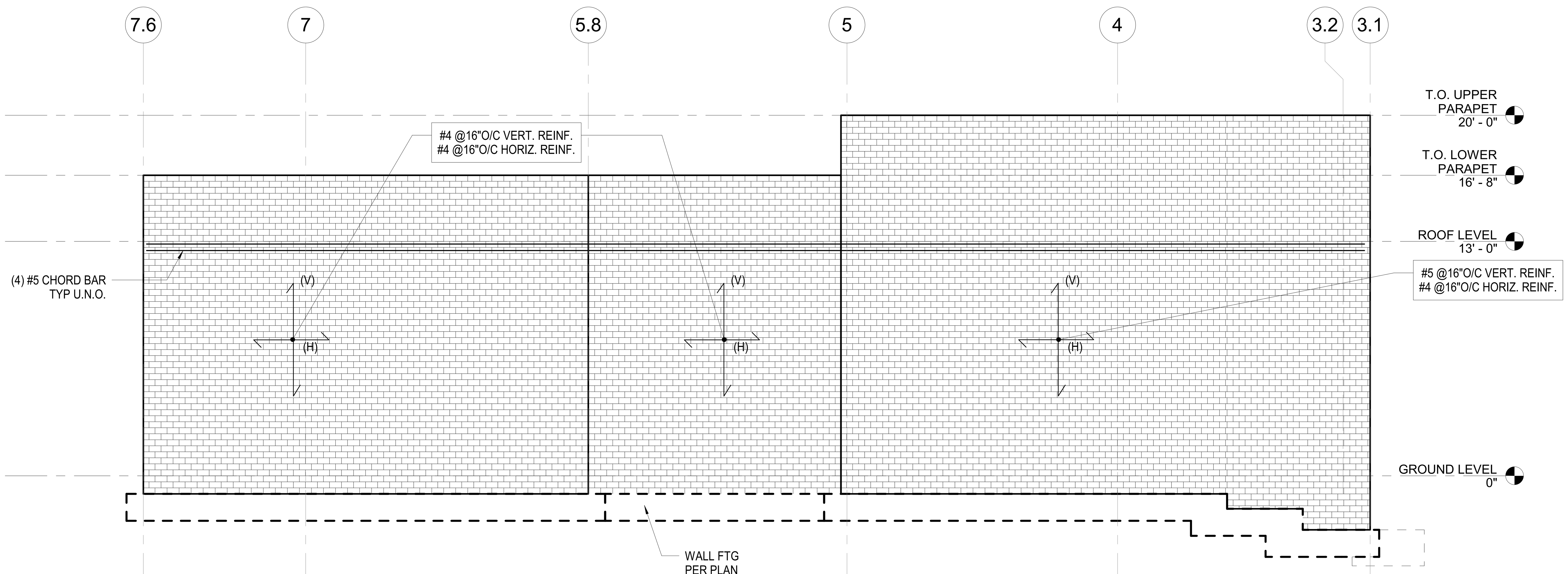
1 CMU SOUTH WALL ELEVATION

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



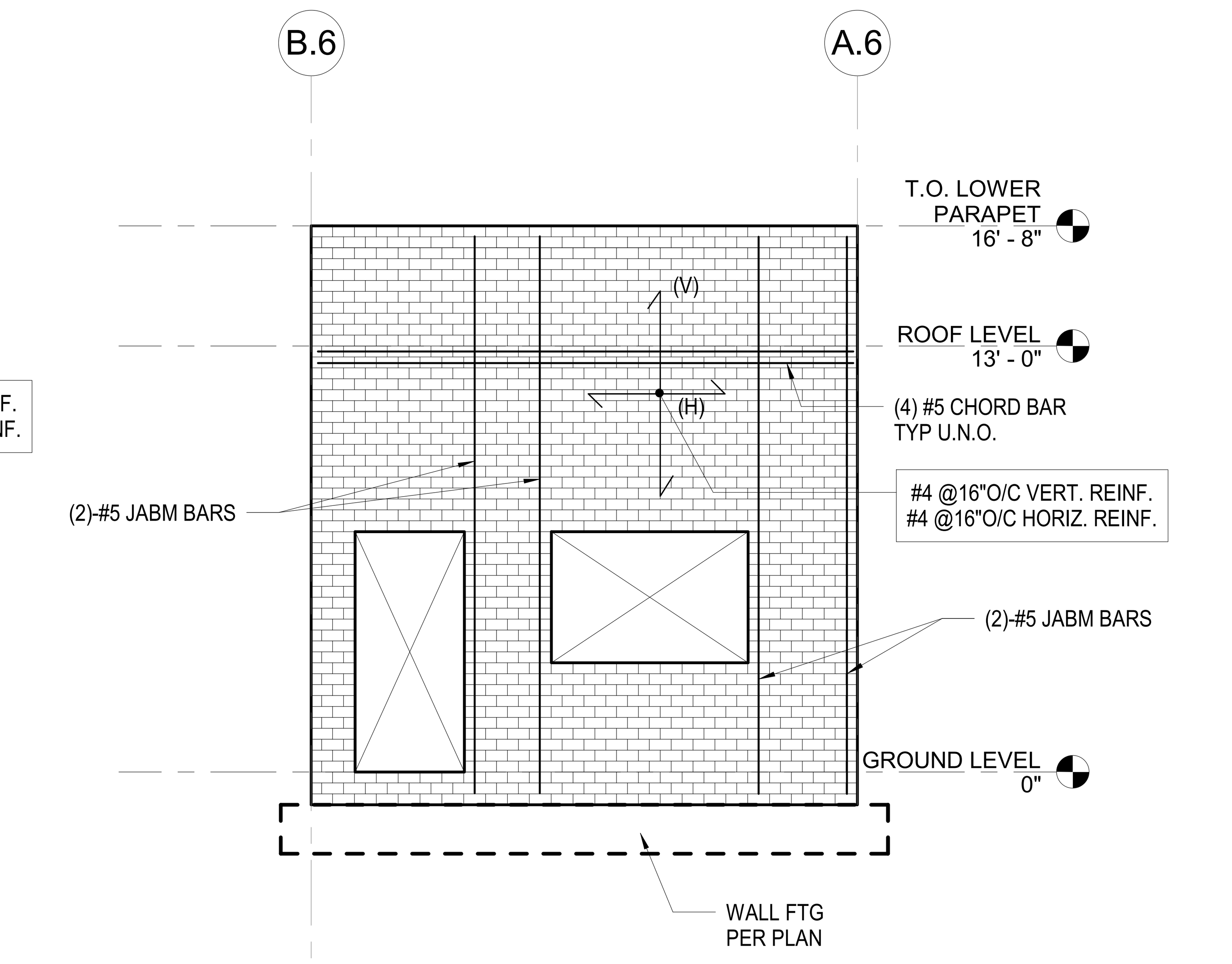
2 CMU WEST WALL ELEVATION

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



3 CMU NORTH WALL ELEVATION

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



4 CMU EAST WALL ELEVATION

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

S-6.1

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CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

APPROVED BY:

ENGINEER DATE

SEAL:

APPROVED BY:

ENGINEER DATE

ENGINEER OF WORK:

VCA ENGINEERS INC
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Project No: H612

SEAL:

REGISTERED PROFESSIONAL ENGINEER
YOUNG KEUN NAM
No. S4029
Exp. 9/30/24
STRUCTURAL
STATE OF CALIFORNIA

1/31/2024 2:09:06 PM

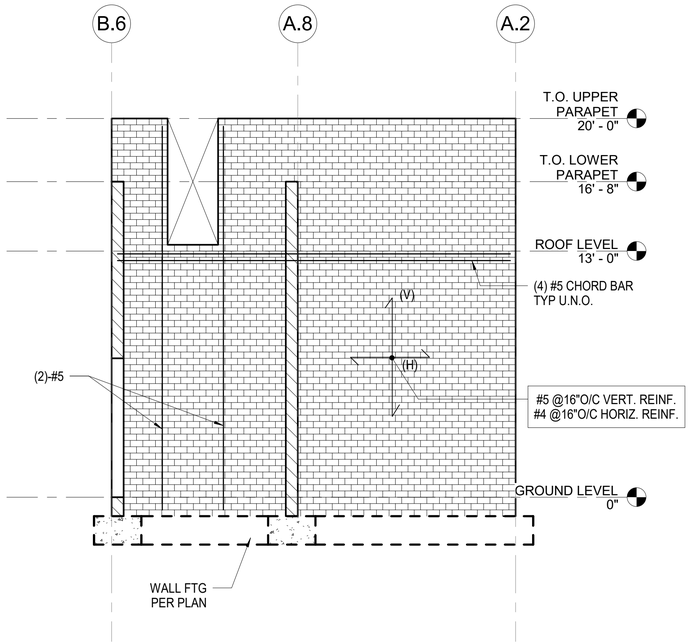
DRAWN BY: AN & RM
CHECK BY: YN & JA
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

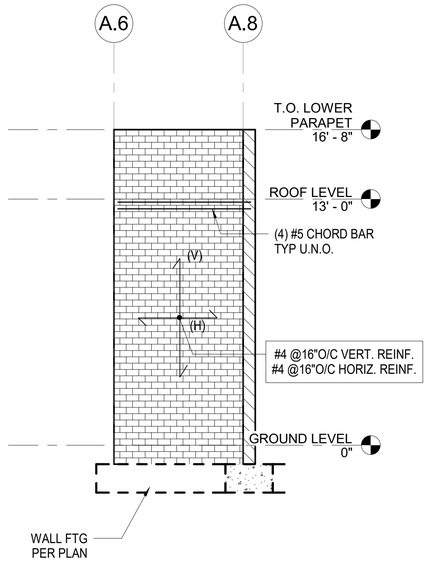
SHEET TITLE:
WALL ELEVATIONS

SHEET:
106
OF
145

BID DELIVERABLE



5 CMU WALL ELEVATION @GRID-5
SCALE: 1/4" = 1'-0"



6 CMU WALL ELEVATION @GRID-5.8
SCALE: 1/4" = 1'-0"

S-6.2

NO.	BY:	REVISION COMMENTS

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ENGINEER DATE

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Project No: H612

SEAL:
REGISTERED PROFESSIONAL ENGINEER
YOUNG KEUN AHN
No. S4029
Exp. 9/30/24
STRUCTURAL
STATE OF CALIFORNIA

1/31/2024 2:09:06 PM

DRAWN BY: AN & RM
CHECK BY: YN & JA
DATE: 02/01/2024
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
WALL ELEVATIONS

SHEET:
107
OF
145

BID DELIVERABLE

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH 2019 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.

2. ALL PANELS, SWITCHES SHALL BE IN COMPLIANCE TO UL REQUIREMENTS.

3. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.

4. SEE MECHANICAL, PLUMBING, ETC. DRAWINGS FOR EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.

5. EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.

6. ALL MOUNTING HEIGHTS SHOWN ARE TO CENTERLINE OF OUTLET DEVICES UNLESS INDICATED OTHERWISE.
THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE RECESSED IN WALLS UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

WALL SWITCH	+3'-8"	SET VERTICALLY
CONVENIENCE RECEPTACLE	+1'-6"	SET VERTICALLY
TELEPHONE/DATA OUTLETS	+1'-6"	SET VERTICALLY.
OUTLETS AT COUNTERS	+6"	ABOVE COUNTERS WITHOUT SPLASHES OR CENTERED IN SPLASH SET HORIZONTALLY

7. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.

8. DRAWING ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.

9. REFER TO ARCHITECTURAL DRAWINGS/ELEVATIONS FOR EXACT LOCATIONS OF ALL WALL OUTLET BOXES FOR SWITCHES, RECEPTACLES, EQUIPMENT AND ETC.

10. PROVIDE PULL CORD IN EACH RACEWAY RUN OVER 10' IN LENGTH WHERE PERMANENT WIRING IS NOT INSTALLED.

11. IN ADDITION TO THE PULL BOXES AS SHOWN, PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. ARCHITECT SHALL APPROVE LOCATIONS AT HIS DISCRETION. PULL BOX SHALL BE ACCESSIBLE. THE SIZE OF PULLBOX SHALL COMPLY WITH CEC REQUIREMENTS.

12. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR CONNECTION REQUIREMENTS TO CONTROL TRANSFORMERS, STATS, RELAYS, ETC.

13. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT SHALL BE WEATHERPROOF TYPE, NEMA 4X, STAINLESS STEEL WITH GASKET.

14. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK. THE OUTLETS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF MINIMUM 18" APART.

15. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. SWITCH(ES) CONTROLLING LIGHTS ON EMERGENCY CIRCUITS SHALL BE IN A SEPARATE BOX UNDER THE SAME COVER PLATE AS THE OTHER SWITCHES.

16. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL STRUCTURAL SUPPORTS.

17. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL OR ACCEPTED AGENCY'S LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.

18. CONVENIENCE OUTLETS IN THE STATION PLATFORM AREAS, AND OUTSIDE OF THE STATION SHALL BE INDUSTRIAL AND FEDERAL GRADE SINGLE LOCKING RECEPTACLE IN A WEATHERPROOF, TAMPERPROOF AND STAINLESS STEEL LOCKABLE ENCLOSURE OR RECEPTACLE BOX.

19. PROVIDE GREEN GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, AND SURFACE METAL RACEWAYS. SIZE OF GROUNDING CONDUCTOR SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250-122.

20. LOCATIONS FOR ELECTRICAL CONDUITS ARE SHOWN ONLY DIAGRAMMATICALLY ON ENGINEER'S DRAWINGS.

21. WHENEVER POSSIBLE, ELECTRICAL CONDUIT SHALL BE HIDDEN FROM VIEW, UNLESS SPECIFICALLY NOTED OTHERWISE BY ARCHITECT.

22. ACCESS PANELS SHALL BE PROVIDED WHEREVER REQUIRED BY CODE OR REQUIRED FOR PROPER OPERATION OF ELECTRICAL EQUIPMENT.

23. ALL J-BOXES SHALL BE SIZED PER NEC TABLE 314.16.

24. TICK-MARKS ARE SHOWN ON HOMERUNS ONLY. PROVIDE WIRES AS REQUIRED TO COMPLETE CONDUITS, SWITCHING, ETC., INDICATED ON DRAWINGS.

25. FEEDER LENGTH SHOWN ON DRAWINGS ARE FOR VOLTAGE DROP CALCULATION AND FAULT CURRENT STUDY ONLY.

26. PROVIDE OPENINGS AND SUPPORTS FOR EQUIPMENT AND SYSTEM COMPONENTS AS REQUIRED. ALL SUSPENDED ELEMENTS TO BE PROVIDED WITH APPROVED LATERAL OR SWAY BRACING.

27. PROVIDE FIRE BLOCKING, AS APPLICABLE, WHERE SYSTEM COMPONENTS PENETRATE FIRE RATED SEPARATIONS BLOCKING/DAMPERS SHALL BE RATED IN ACCORDANCE WITH SEPARATION SERVED. PER SECTION 712, CBC. USE APPROVED & LISTED MATERIALS.

28. PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.

29. PIPES AND CONDUITS PASSING THRU FIRE RATED WALLS OR FLOORS SHALL BE SEALED ALL AROUND WITH FIRE RATED SEALANT PER SECTION 712 CBC.

30. LIGHT FIXTURE IN CONTACT WITH INSULATION TO BE U.L. LISTED FOR THERMAL BARRIER OR PROVIDE 3" MINIMUM CLEARANCE.

31. PERMANENTLY LABEL CIRCUIT AND PANEL NAME ON ALL RECEPTACLES.

32. ALL BOXES OR FITTINGS SHALL BE FLUSH WITH FINISHED SURFACE OR RECESSED NO MORE THAN 1/4" IN NON-COMBUSTIBLE WALLS OR CEILING PER CEC.

33. ALL OUTLET BOXES SHALL BE FLUSH WITH FINISHED SURFACE OF WALLS AND CEILINGS OF COMBUSTIBLE MATERIALS PER CEC.

34. DISCONNECTING MEANS ARE REQUIRED TO BE IDENTIFIED SO THE PURPOSE AND USE OF EACH CIRCUIT IN EACH PANEL IS EVIDENT PER CEC.

35. MAINTAIN REQUIRED WORK SPACE, ADEQUATE ILLUMINATION ACCESS TO THE WORK SPACE AND HEAD ROOM FOR AND ABOUT ELECTRICAL EQUIPMENT PER CEC.

36. ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING SHALL BE GROUNDED PER CEC.

37. SWITCHES, CIRCUIT BREAKERS, ETC, SHALL BE READILY ACCESSIBLE FOR ROOFTOP EQUIPMENT.

38. PROVIDE 6' PIGTAIL OF POWER CONDUCTORS (LINE, NEUTRAL, GROUND) , PLUS 6' PIGTAIL FOR #6 GROUND AT EACH TVM AND FARE GATE CONSOLE POSITION FOR LATER CONNECTION TO EQUIPMENT, WHEN INSTALLED. ALSO REQUIRE THE 6' PIGTAIL FOR #6 GROUND AT EACH TVM AND FARE GATE CONSOLE TO BE SECURED IN MANNER SO AS NOT TO PRESENT TRIP HAZARD ON FINISH SURFACE.

39. ALL FEEDER ROUTING SHOWN ON DRAWINGS.

40. ALL JUNCTION BOXES SHOWN ON PLANS MAY NOT BE USED. VERIFY MEANS OF CONNECTION TO DEVICES AND PROVIDE JUNCTION BOXES AS REQUIRED PER EQUIPMENT REQUIREMENTS AND CODES.

41. EXPOSED CONDUITS IN PUBLIC AREAS/SPACES ARE NOT PERMITTED.

42. FUSIBLE SWITCH FOR AC MOTORS SHALL BE REJECTION TYPE FUSE HOLDERS.

43. ALL CONDUITS FOR UNDER PLATFORM CRAWL SPACE AND AT-GRADE STATION SHALL BE PVC COATED, RIGID GALVANIZED STEEL (RGS).

44. ALL LIGHT FIXTURES SHALL BE LED TYPE WITH INTEGRAL FUSES AND DRIVER WITH SURGE PROTECTOR PER MRDC 7.13.1E.

45. ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH STRUCTURE /BUILDING SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

46. LOW VOLTAGE TRANSFORMERS

    A. INSTALL CONCRETE HOUSE KEEPING PAD WITH ANCHOR BOLTS FASTENERS PER MANUFACTURER'S INSTALLATION DRAWINGS.

    B. TRANSFORMER COILS SHALL BE WOUND OF ELECTRICAL GRADE COPPER WITH CONTINUOUS WOUND CONSTRUCTION.

47. PANELBOARDS

    A. PANELBOARDS SHALL BE FULLY-RATED FOR THE AVAILABLE SHORT CIRCUIT CURRENT.

    B. THE MANUFACTURER OF THE PANELBOARD ASSEMBLY SHALL BE THE SAME MANUFACTURER OF THE MAJOR COMPONENTS WITHIN THE ASSEMBLY, INCLUDING THE CIRCUIT BREAKERS.

    C. PANELBOARDS SHALL BE SURFACE-MOUNTED IN ALL NON-PUBLIC AREAS. IN PUBLIC AREAS AND OFFICES, PANEL BOARD SHALL BE FLUSH-MOUNTED.

    D. PANELBOARD MAIN BUS BARS SHALL BE COPPER WITH FULL CAPACITY NEUTRAL AND EQUIPMENT GROUND BUS.

    E. PANEL BOARD CIRCUIT DIRECTORY TO COMPLY WITH NEC-408.4.

    F. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON-THERMAL MAGNETIC TYPE.

    G. MINIMUM AIC RATING FOR 120/208V.,3Ø,4W AND 277/480V.,3Ø,4W PANELBOARDS SHALL BE 10,000A AND 14,000 AIC MINIMUM, RESPECTIVELY.

    H. A LISTED SURGE PROTECTIVE DEVICE (SPD) SHALL BE PROVIDED ON MAIN AND ALL EMERGENCY PANELBOARDS

48. WIRING DEVICES

    A. ALL RECEPTACLES SHALL BE FLUSH TYPE, UNLESS OTHERWISE INDICATED ON PLANS.

49. IDENTIFICATION FOR ELECTRICAL SYSTEMS THAT INCLUDE RACEWAY AND BOXES, CONDUCTOR, UNDERGROUND-LINE WARNING TAPE, WARNING LEVELS, INSTRUCTION SIGNS AND EQUIPMENT IDENTIFICATION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 26 05 33.

50. USE OF EMT IS ONLY ALLOWED ON THE FOLLOWING CONDITIONS:

    A. INSTALLED INDOOR AND RECESSED IN WALL OR CEILING.

    B. EXPOSED ON WALL OR CEILING, 10' OR HIGHER FROM THE FLOOR.

EQUIPMENT ANCHORAGE NOTES

THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS.

EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
TEMPORARY OR MOVABLE EQUIPMENT.
EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL AND THE CONTRACTOR'S QC REPRESENTATIVE.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7. AND 13.4.5.5., ITEM 6. RESPECTIVELY.

REFER TO CBC 2019 FOR SEISMIC SUPPORT TO BE DESIGN-BUILD.

SCOPE OF WORK

THIS PROJECT SCOPE OF WORK INVOLVES THE DESIGN OF THE ELECTRICAL POWER SERVICE 400A, 120/208V. 3ø, 4W TO THE NEW BMS TRANSIT CENTER THE SITE LIGHTING FOR PEDESTRIAN AND VEHICULAR TRAFFIC POWER SYSTEMS AND TELEPHONE DATA NETWORK SYSTEM FOR THE SITE. A SMALL INVERTER SYSTEM IS PROVIDED TO SUPPORT LIGHTING POWER EMERGENCY USAGE.

SHEET INDEX

CODE ANALYSIS

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017 BUILDING OCCUPANCY CLASSIFICATION: GROUP S-1

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

2022	BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2017 INTERNATIONAL BUILDING CODE)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2018 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (2017 UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2017 UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2017 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2017	CAL GREEN TIER 1

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS	2019 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED	2019 EDITION
NFPA 17a	WET CHEMICAL SYSTEMS	2019 EDITION
NFPA 20	STATIONARY PUMPS	2019 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2016 EDITION
NFPA 72	NATIONAL FIRE ALARM CODE (CA AMENDED)	2019 EDITION
NFPA80	FIRE DOOR AND OTHER OPENING PROTECTIVE	2019 EDITION
NFPA130	FIXED GUIDEWAY TRANSIT AND PASSENGER RAIL SYSTEMS	2019 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2019 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS – 2019 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

E0.1

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

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SEAL:

APPROVED BY: DATE

ENGINEER OF WORK:
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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER E17249 EXP. 08-30-2024 ELECTRICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
ELECTRICAL GENERAL NOTES, CODE ANALYSIS AND SHEET INDEX

SHEET: 108 OF 145

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ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AF	AMPERE FUSE RATING
AIC	AMPS INTERRUPTING CAPACITY RATING
AMP,	AMPERES
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OF BREAKER
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
BIDS	BAGGAGE INFORMATION DISPLAY SYSTEM
BIR	BAGGAGE INSPECTION ROOM
C.	CONDUIT
CAB	CABINET
CAT.	CATEGORY
CCTV	CLOSE CIRCUIT TELEVISION
CIC	COMMUNICATION INTERFACE CABINET
C.O.	CONDUIT ONLY
CR	CONTROL RELAY (MAGNETICALLY HELD UNLESS NOTED OTHERWISE)
CU	COPPER
D	DEMOLISH/REMOVE
DISTR	DISTRIBUTION
DP	DISTRIBUTION PANEL
DWG	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
ELEV	ELEVATION
EMERG	EMERGENCY
EQPT	EQUIPMENT
ETEL	EMERGENCY TELEPHONE
EXH	EXHAUST
E, EX, (E)	EXISTING TO REMAIN
FAA	FIRE ALARM ANNUNCIATOR
FDR	FEEDER
FF	FINISHED FLOOR
FG	FINISHED GRADE
FS	FLOW SWITCH
FIDS	FLIGHT INFORMATION DISPLAY SYSTEM
FIS	FEDERAL INSPECTION SERVICES
FLEX	FLEXIBLE
F.O.	FIBER OPTIC
FUT	FUTURE
G	GROUND
GND	GROUND
GTEL	GATE TELEPHONE
GW	GROUND WELL
HTR	HEATER
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
J.B.	JUNCTION BOX
K	THOUSAND (KILO)
KV	KILOVOLTS
KW	KILOWATTS
KWH	KILOWATT HOURS
KVA	KILOVOLT AMPERES
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LS	LIMIT SWITCH
LT, LTS	LIGHT, LIGHTS LIGHTING
MDF	MAIN DISTRIBUTION FRAME
MAX	MAXIMUM
MBP	MAINTENANCE BY-PASS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MLO	MAIN LUGS ONLY
MS	MANUAL MOTOR STARTER
MT, MTD, MTG	MOUNT, MOUNTED, MOUNTING
NEC	NATIONAL ELECTRICAL CODE
NO, NOS	NUMBER, NUMBERS
NTS	NOT TO SCALE
PBC	PULL BOX FOR COMMUNICATION
PNL	PANEL
PTEL	PASSENGER ASSISTANCE TELEPHONE
PWR	POWER
R,(R)	REMOVE
RR	REMOVE AND REPLACE
REL/REP	EXISTING EQUIPMENT IS TO BE REPLACED WITH NEW &RELOCATED AT NEW LOCATION
RECPTS	RECEPTACLES
REQD	REQUIRE
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SEQ	SEQUENCE
SHT	SHEET
SM	SINGLE MODE
SPECS	SPECIFICATIONS
STA	STATION
SYS	SYSTEM
TBD	TO BE DETERMINED
TPIS	TRANSIT PASSENGER INFORMATION SYSTEM
TR	TIME DELAY RELAY
TS	TAMPER SWITCH
TTB	TELEPHONE TERMINAL BACKBOARD
TYP	TYPICAL
TVM	TICKET VENDING MACHINE
TW	TEST WELL
UNO	UNLESS NOTED OTHERWISE
UGPS	UNDERGROUND PULL SECTION
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTMETER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WHM	WATT HOUR METER
WP	WEATHERPROOF
XR	EXISTING TO BE RELOCATED
XFMR	TRANSFORMER

SYMBOLS LIST

CABLES ONLY. RUN CONCEALED IN COLUMN, BEAM, AND WIREWAY.

CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOORS.

CONDUIT RUN, EMBEDDED IN SLAB.

CONDUIT RUN UNDERGROUND.

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

B–1 PROVIDE 3/4"C, 2#12 AWG +1#12 GND, U.O.N.

B–1,3 PROVIDE 3/4"C, 4#12 AWG +1#12 GND, U.O.N.

B–1,3,5 PROVIDE 3/4"C, 6#12 AWG +1#12 GND, U.O.N.

ISOLATED GROUND WIRE. RUN IN ADDITION TO REGULAR GROUND WIRE.

SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.

RECESSED BRANCH CIRCUIT PANELBOARD.

P1 PANEL DESIGNATION.

JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.

J JUNCTION BOX FLUSH FLOOR MOUNTED.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE CONNECTED TO EMERGENCY CIRCUIT.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE CONNECTED TO EMERGENCY CIRCUIT.

TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

TWO DUPLEX GROUNDING TYPE RECEPTACLES, IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE CONNECTED TO EMERGENCY CIRCUIT.

TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

CEILING MOUNTED TWO DUPLEX GROUNDING TYPE RECEPTACLES, IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

FLOOR MOUNTED QUAD GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. CORE DRILL AS REQUIRED.

IG ANY RECEPTACLE INDICATED WITH "IG" ADJACENT SHALL BY ISOLATED GROUND TYPE WITH INDIVIDUAL GROUND WIRE TO PANELBOARD.

FLUSH FLOOR MOUNTED SPECIAL PURPOSE OUTLET. TYPE AS INDICATED ABOVE.

PEDESTAL TYPE SPECIAL PURPOSE OUTLET. TYPE AS INDICATED ABOVE.

C L2 P1 L1, L2 & L3 = LEVEL OF CHARGING. P1 & P2 = SINGLE OR DUAL PORT

PB_ PB NORMAL POWER PULLBOX

PBE_ PB EMERGENCY POWER PULLBOX

PBC_ PB COMMUNICATIONS PULLBOX

A SPECIAL PURPOSE OUTLET (UNCONTROLLED) MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE.

- A – NEMA TYPE 14–20R (125/250V, 3 POLE, 4 WIRE, GROUNDING, 20 AMP)
- B – NEMA TYPE 6–20R (250V, 2 POLE, 3 WIRE, GROUNDING, 20 AMP)
- C – NEMA TYPE 6–30R (250V, 2 POLE, 3 WIRE, GROUNDING, 30 AMP)
- D – NEMA TYPE 14–50R (125/250V, 3 POLE, 4 WIRE, GROUNDING, 50 AMP)
- E – NEMA TYPE 5–30R (125V, 2 POLE, 3 WIRE, GROUNDING, 30 AMP)
- F – NEMA TYPE 15–30R (250V, 3 PHASE, 3 POLE 4 WIRE, GROUNDING, 30 AMP)
- G – NEMA TYPE 15–60R (250V, 3 PHASE, 3 POLE, 4 WIRE, GROUNDING, 60 AMP)
- H – NEMA TYPE L5–20R (125 V, 1 PHASE, 2 POLE, 3 WIRE, GROUNDING, 20 AMP, TWIST LOCK)
- K – NEMA TYPE 15–60R (250 V, 3 PHASE, 3 POLE, 4 WIRE, GROUNDING, 60 AMP)
- M – NEMA TYPE 10–20R (125/250 VOLT, 1 PHASE, 3 POLE, 3 WIRE, UNGROUNDED, 20 AMP)
- N – NEMA TYPE L6–20R (250 VOLT, 1 PHASE, 2 POLE, 3 WIRE, GROUNDING, 20 AMP TWIST LOCK)
- P – NEMA TYPE 5–20R (120 VOLT, 1 PHASE, 2 POLE, 3 WIRE, GROUNDING, SINGLE, 20 AMP)

100AS NON–FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.

100AS / 60AF FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AF" INDICATES FUSE AMPERE RATING.

VFD II MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.)

NO SUBSCRIPT	– FULL VOLTAGE, NON REVERSING
PR	– PRIMARY RESISTOR REDUCED VOLTAGE
AT	– AUTOTRANSFORMER REDUCED VOLTAGE
WD	– WYE–DELTA REDUCED VOLTAGE
PW	– PART WINDING REDUCED VOLTAGE
SS	– SOLID STATE REDUCED VOLTAGE
REV	– REVERSING TYPE
2S	– TWO SPEED
2W	– TWO WINDINGS
CH	– CONSTANT HORSEPOWER
CT	– CONSTANT TORQUE
VT	– VARIABLE TORQUE
VFD	– VARIABLE FREQUENCY DRIVE

COMBINATION MAGNETIC MOTOR STARTER AND NON–FUSED DISCONNECT SWITCH.

COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER.

COMBINATION MAGNETIC MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR.

SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR.

THERMOSTAT OUTLET. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.

T TRANSFORMER, PRIMARY & SECONDARY VOLTAGE AND KVA RATING AS NOTED. TYPE AND CONFIGURATION AS SPECIFIED. PROVIDE DRY TYPE, COPPER WOUND, WALL OR BOX MOUNTED UNLESS NOTED OTHERWISE. REMOVED AND REPLACED WITH NEW AND RECONNECTED AS REQUIRED

PANELBOARD

100AF / 70AT 3P MOLDED CASE CIRCUIT BREAKER. "AF" INDICATES AMPERE FRAME, "AT" INDICATES AMPERE TRIP RATING AND NUMBER OF POLES AS INDICATED. SUBSCRIPT INDICATES TYPE.

NO SUBSCRIPT	THERMAL MAGNETIC
NA	NON–AUTOMATIC
MO	MAGNETIC ONLY
CL	CURRENT LIMITING
SS	SOLID STATE
EM	ELECTRONIC METERING PACKING

DRAW–OUT TYPE CIRCUIT BREAKER.

100AS / 90FU 3P FUSED SWITCH. "AS" INDICATED AMPERE SWITCH RATING, "AFU" INDICATES AMPERE FUSE RATING, NUMBER OF POLES AS INDICATED.

VOLTAGE TRANSFORMER. FLOOR MOUNTD, COPPER WOUND, DRY TYPE UNLESS SPECIFIED OTHERWISE.

CURRENT TRANSFORMERS, "C.T.s"

POTENTIAL TRANSFORMER, P.T.s".

M UTILITY METER SOCKET, WITH C.T.s, CLIPS, ETC., PER SERVING UTILITY COMPANY.

GROUND, "GRD".

GFI "GROUND FAULT INTERRUPTER"

GFP GROUND FAULT PROTECTION DEVICE.

GFS GROUND FAULT SENSOR.

SPD SURGE PROTECTIVE DEVICE.

AS AMMETER SWITCH, FOUR POSITION "PHASE A", "PHASE B", "PHASE C", AND OFF.

VS VOLTMETER SWITCH, SEVEN POSITION "PHASE A–N", "PHASE B–N", "PHASE C–N", "PHASE AB", "PHASE BC", "PHASE CA", AND OFF.

A AMMETER.

V VOLTMETER.

KW DEMAND (KILOWATT) METER.

KWH USAGE (KILOWATT HOUR) METER.

M SUB METER SOCKET, WITH C.T.s, CLIPS, ETC.

SM MOTOR RATED SWITCH # OF POLES AS NOTED. 20A, 120V. U.O.N.

POKE THRU. POWER COMBINED WITH DATA PORTS. PROVIDE AS SPECIFIED IN PLANS.

FACP FIRE ALARM SUPERVISORY CONTROL PANEL

S SPEAKER

CCTV (STATION PLATFORM)

CCTV (MOUNTED AT LIGHT POST AND PUC)

ANS AMBIENT NOISE SENSING MICROPHONE

CONDUIT TAG

1a ROUND RECESSED DOWNLIGHT LED LUMINAIRE, WITH 0–10V DIMMING AND UNIVERSAL VOLTAGE

1a LINEAR PENDANT MOUNT LED LUMINAIRE, TAMPER PROOF, WITH 0–10V DIMMING, AND UNIVERSAL VOLTAGE

LINEAR STRIPLIGHT LED LUMINAIRE, 0–10V DIMMING, UNIVERSAL VOLTAGE

1a BRACKET OR WALL MOUNTED LED LIGHT FIXTURE .

1a CEILING DOWNLIGHT LED FIXTURE.

ILLUMINATED EXIT LED LIGHT FIXTURE. SIDE, BACK, CEILING, OR PENDANT MOUNTED, SINGLE OR DOUBLE FACED AS NOTED BY SHADED ARC, WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS.

D 0–10V LIGHTING DIMMER SWITCH. SINGLE OR MULTI ZONE

RD LED REMOTE DRIVER

S LOW VOLTAGE SWITCH. SINGLE OR MULTI ZONE

OS LOW VOLTAGE WALL MOUNT OCCUPANCY SENSOR SWITCH COMPLETE WITH MANUFACTURER RECOMMENDED POWER PACKS

OS LOW VOLTAGE CEILING MOUNT OCCUPANCY SENSOR SWITCH COMPLETE WITH MANUFACTURER RECOMMENDED POWER PACKS

3K Sa SWITCH. LOWER CASE LETTER AT BOTTOM DENOTES OUTLETS CONTROLLED. CAPITAL SUPERSCRIPT DENOTES SWITCH TYPE.

NO SUPERSCRIPT –	SINGLE POLE SWITCH
2	– DOUBLE POLE
3	– THREE WAY
4	– FOUR WAY
I	– ILLUMINATED HANDLE
K	– KEYED SWITCH
LC	– LOCKABLE COVER
M	– MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
MC	– MOMENTARY CONTACT
P	– PILOT LIGHT
PR	– PRESS TYPE
TP	– THREE POSITION
T	– TIMER, 0–6 HR ROTARY UNLESS NOTED OTHERWISE

PC PHOTOCELL.

DS DAYLIGHT SENSOR. COORDINATE EXACT LOCATION AND QUANTITY WITH MANUFACTURER.

DETAIL NO. – ENLARGED REFERRENCE – SHEET NO.

KEYNOTES

TYPICAL KEYNOTE SYMBOL

NOTE:
NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED IN THIS PROJECT.

E0.2

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
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Glendora, CA 91740
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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER – PRITAL PATEL – E17249 – EXP. 06-30-2024 – ELECTRICAL – STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
SYMBOLS LIST AND ABBREVIATIONS

SHEET: 109 OF 145

BID DELIVERABLE

MSB - LOAD SUMMARY & FEEDER SCHEDULE

LOCATION: ELECTRICAL YARD

ENCLOSURE: NEMA-3R NORMAL BRANCH — DOUBLE ENDED BUS — 800 AMP BUS

VOLTAGE: 277/480V, 3P4W — 22,000 AIC SYM, MINIMUM — 800 AMP MAIN CB

FEEDER NUMBER	FEEDER FROM	FEEDER TO	NO. OF SETS	CONDUIT (INCHES)	CONDUCTORS (AWG)	GROUND (AWG)	CONNECTED LOAD AMPS	CONNECTED LOAD KVA	FEEDER LENGTH*	VOLTAGE DROP	REMARKS
1	MSB	TR-P	1	2"	4#2/0	6	241.48	87.00	25	0.21%	
2	MSB	EVSE	1	1 1/4"	4#1	6	70.00	58.00	10	0.04%	FUTURE EVSE
3	MSB	EVSE	1	1 1/4"	4#1	6	70.00	58.00			FUTURE EVSE
4	MSB	EVSE	1	1 1/4"	4#1	6	70.00	58.00			FUTURE EVSE
5	MSB	SPACE								#N/A	
6	MSB	SPACE								#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
								261.00		SUBTOTAL	
										25% OF LARGEST MOTOR	
							313.93	261.00		TOTAL LOAD	

*FEEDER LENGTH IN FEET ARE INDICATED FOR VOLTAGE DROP CALCULATION ONLY AND SHALL NOT BE USED FOR QUANTITY TAKEOFFS.

MDB - LOAD SUMMARY & FEEDER SCHEDULE

LOCATION: ELECTRICAL YARD

ENCLOSURE: NEMA-3R NORMAL BRANCH — DOUBLE ENDED BUS — 400 AMP BUS

VOLTAGE: 120/208V, 3P4W — 22,000 AIC SYM, MINIMUM — 300 AMP MAIN CB

FEEDER NUMBER	FEEDER FROM	FEEDER TO	NO. OF SETS	CONDUIT (INCHES)	CONDUCTORS (AWG)	GROUND (AWG)	CONNECTED LOAD AMPS	CONNECTED LOAD KVA	FEEDER LENGTH*	VOLTAGE DROP	REMARKS
1	MDB	PNL A	1	2"	4#3/0	6	121.00	44.00	25	0.20%	
2	MDB	PNL A1	1	2"	4#3/0	6	117.00	43.00	10	0.08%	
3	MDB	SPARE								#N/A	
4	MDB	SPARE								#N/A	
5	MDB	SPACE								#N/A	
6	MDB	SPACE								#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
										#N/A	
								87.00		SUBTOTAL	
										25% OF LARGEST MOTOR	
							241.49	87.00		TOTAL LOAD	

*FEEDER LENGTH IN FEET ARE INDICATED FOR VOLTAGE DROP CALCULATION ONLY AND SHALL NOT BE USED FOR QUANTITY TAKEOFFS.

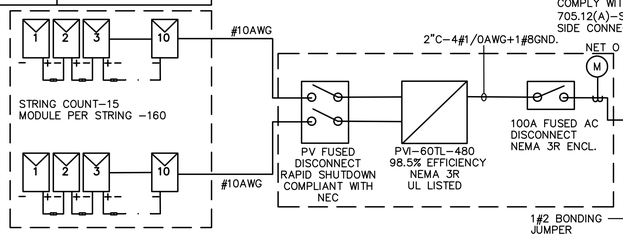
Wire Schedule		
Tier	Wire	Length
String	15x 10 AWG	2607ft

INTERCONNECTION 120% RULE – NEC 690.64(D)(2)

UTILITY FEED+SOLAR BACKFEED

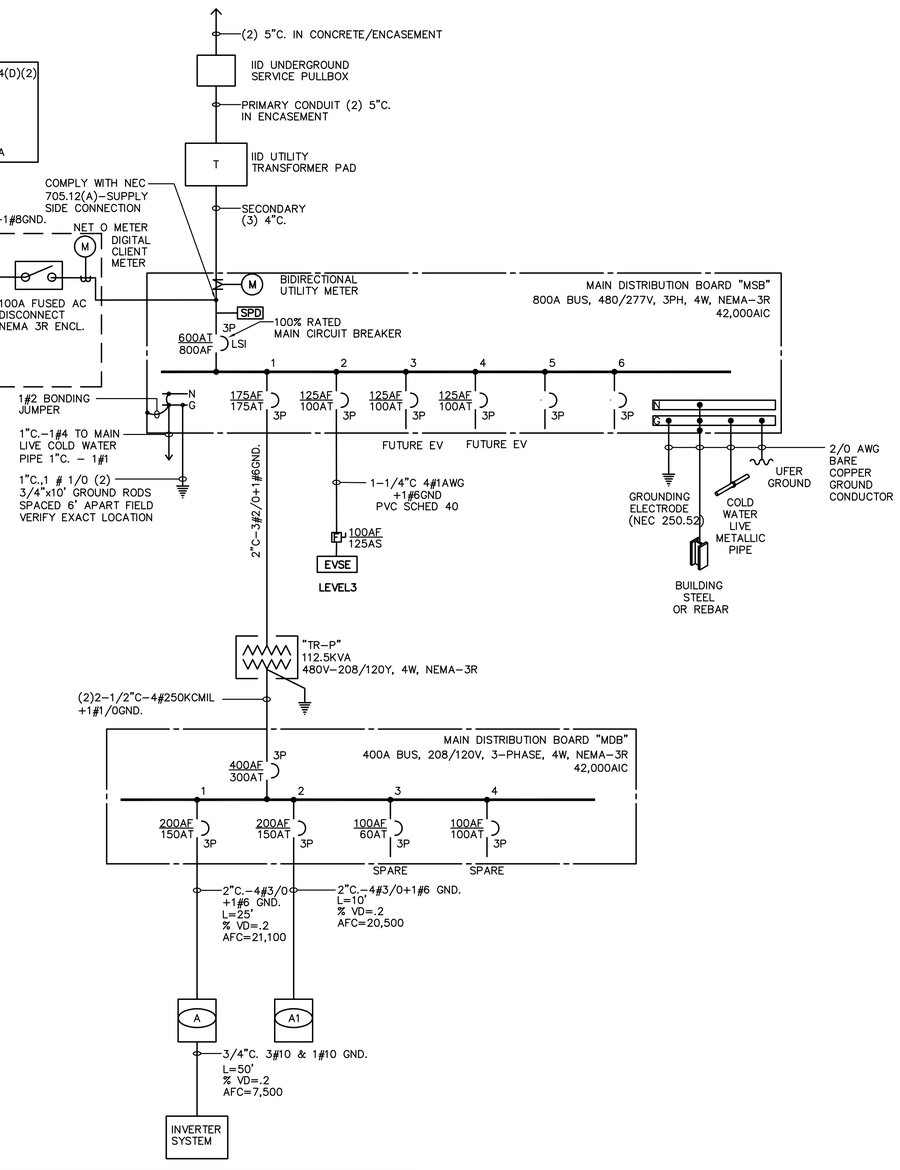
600A+100A =900A

BUS RATING = 120% OF 600A = 720A



Module Specifications	
160x SunPower SPR–A425–G–AC	
STC Rating	425 W
Vmp	40.74 V
Imp	10.431 A
Voc	48.23 V
Isc	10.925 A

Inverter Specifications	
1x Solectria PVI 60kW–480	
Max AC Power Rating	60 kW
Max Input Voltage	600 V
Min Input Voltage	305 V



PANEL- A

MOUNTING: SURFACE — LOCATION: ELECTRICAL ROOM

VOLTAGE: 120/208V, 3Ø,4W — 22,000 AIC SYM — 400 AMP BUS — 150A-3P MAIN CB

DESCRIPTION	VOLT-AMPERES ØA	ØB	ØC													VOLT-AMPERES ØA	ØB	ØC	DESCRIPTION
STREET CLOCK	360					1	1	20	1	2	20	1			28	476			PALM TREE LIGHTS
IRRIGATION CONT'LR		500				1	1	20	3	4	20	1			16		272		PALM TREE LIGHTS
LIGHTS			1060	39			1	20	5	6	20	1			.			500	SIGN MONUMENT LIGHTS
LIGHTS	1034			38			1	20	7	8	20	1			3	300			INGROUND LIGHTS
EXTERIOR LIGHTS		435		13			1	20	9	10	20	1			1		100		INGROUND LIGHTS
POLE LIGHTS			960	5			1	20	11	12	20	1		5				900	RECEPTACLES
POLE LIGHTS	664			4			1	20	13	14	20	1		5		900			RECEPTACLES
EXTERIOR LIGHTS		400		12			1	20	15	16	20	1		2			360		ELEC. RM. RECEPT
POLE LIGHTS			1800	11		1	1	20	17	18	20	1		3				540	RECEPTACLES
POLE LIGHTS	1800			12			1	20	19	20	20	1	1			500			DRINKING FOUNTAIN
FOR MICROWAVE		1500			1		1	20	21	22	20	1		4			720		RECEPTACLES
RECEPTACLE			500		1		1	20	23	24	20	1	1	4				900	RECEPTACLES
DRINKING FOUNTAIN	500					1	1	20	25	26	20	1		1		500			SECURITY PANEL
MDF RACK		1800		2			1	20	27	28	20	1		1			500		FIRE ALARM PANEL 1
DATA RM. RECPET.			540	3			1	20	29	30	20	1							SPARE
EMERG. LIGHTS	653			24			1	20	31	32	20	1							SPARE
MDF		1200				1	1	20	33	34	20	1							SPARE
EVSE L2			3000			1	2	40	35	36	20	1							SPARE
	3000								37	38	20	1							SPARE
spare							2	40	39	40	40	2					3000		INVERTER SYSTEM
								-	41	42	-	-						3000	-
VA PER PHASE	8011	5835	7860													2676	4952	5840	VA PER PHASE
																10687	10787	13700	TOTAL VA PER PHASE
																35174			TOTAL CONNECTED VA
																			NOTES
																1	PROVIDE LOCK-ON DEVICE		
																2			
																3			
																4			

CONTINUOUS LOAD 9801 x1.25= 12251 VA

+ OTHER= 25373 VA

TOTAL LOAD= 37624 VA — 104 AMPS

CEILING OUTLETS = 182

CONV. OUTLETS = 56

MISC. OUTLETS = 8

THIS PANEL IS FED BY: MM

PANEL- A1

MOUNTING: SURFACE — LOCATION: ELECTRICAL ROOM

VOLTAGE: 120/208V, 3Ø,4W — 22,000 AIC SYM — 225 AMP BUS — 150A-3P MAIN CB

DESCRIPTION	VOLT-AMPERES ØA	ØB	ØC													VOLT-AMPERES ØA	ØB	ØC	DESCRIPTION
WH-1	1440					1	1	20	1	2	45	2	1			2444			CU-1
WH-2		1440				1	1	20	3	4	-	-					2444		-
WH-1			1440			1	1	20	5	6	45	2	1					2444	CU-4
WH-1	1400					1	1	20	7	8	-	-				2444			-
WH-1		1400				1	1	20	9	10	20	2	1				884		CU-2
GARBAGE DISPOSAL			900			1	1	20	11	12	-	-						884	-
SPARE							1	20	13	14	20	2	1			884			CU-3
SPARE							1	20	15	16	-	-					884		-
ROOF RECEPT			540	3			1	20	17	18	20	1	6					240	EF-1,2, 3, 4, 5 & SF-1
SPARE							1	20	19	20	20	1	1			500			DF-1
WH-3		5000					2	50	21	22	20	1	1				200		TRAP PRIMER
-			5000				-	-	23	24	20	1							SPARE
DF-1	500						1	20	25	26	20	1							SPARE
RECEPTACLES		1080		6			1	20	27	28	20	1							SPARE
RECEPTACLES			900	5			1	20	29	30	20	1							SPARE
SPARE							1	20	31	32	20	1							SPARE
SPARE							1	20	33	34	20	1							SPARE
SPARE							1	20	35	36	20	1							SPARE
SPARE							1	20	37	38	20	1							SPARE
SPARE							1	20	39	40	20	1							SPARE
SPARE							1	20	41	42	20	1							SPARE
VA PER PHASE	3340	8920	8780													6272	4412	3568	VA PER PHASE
																9612	13332	12348	TOTAL VA PER PHASE
																35292			TOTAL CONNECTED VA
																			NOTES
																1			
																2			
																3			
																4			

CONTINUOUS LOAD 1200 x1.25= 1500 VA

+ OTHER= 34092 VA

TOTAL LOAD= 35592 VA — 99 AMPS

CEILING OUTLETS =

CONV. OUTLETS = 14

MISC. OUTLETS = 18

THIS PANEL IS FED BY: PANEL A

INVERTER PANEL

CKT-1	LIGHTING	0.300 kVA
CKT-2	LIGHTING	0.300 kVA
CKT-3	LIGHTING	1.00 kVA
TOTAL CONN. LOAD		1.600 kVA

120/2080V,3PH,4W, 5 AMPS

ELECTRICAL SINGLE LINE DIAGRAM

NTS

E0.3

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: PROFESSIONAL ENGINEER — E17249 EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: SINGLE LINE DIAGRAM, LOAD CALC, PANEL

SHEET: 110 OF 145

BID DELIVERABLE

STATE OF CALIFORNIA
Indoor Lighting
NRCC-LTI-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name:	ICTC Calexico Intermodal Transit Center	Report Page: (Page 1 of 8)
Project Address:	608 Heber Ave	Date Prepared: 3/17/2022

This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6 and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

A. GENERAL INFORMATION

01	Project Location (city)	Calexico		04	Total Conditioned Floor Area (ft²)	912	
02	Climate Zone	15		05	Total Unconditioned Floor Area (ft²)	0	
03	Occupancy Types Within Project (select all that apply):			06	# of Stories (Habitable Above Grade)	1	
☐	Office	☒	Retail	☐	Hotel/Motel	☐ School	☒ Support Areas
☐	Parking Garage	☐	High-Rise Residential	☐	Relocatable	☐ Healthcare	☒ Other (Write in) See Table I

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 or §141.0(b)2 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 (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Area Category Method	912	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft²)	912		0	

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C. COMPLIANCE RESULTS

If any cell 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	Allowed Lighting Power per §140.6(b) (Watts)					Adjusted Lighting Power per §140.6(a) (Watts)				Compliance Results
	01	02	03	04	05	06	07		08	09
	Complete Building §140.6(c)1 (See Table I)	Area Category §140.6(c)2 (See Table I)	Area Category Additional §140.6(c)2(i) (+) (See Table J)	Tailored §140.6(c)3 (+) (See Table K)	= Total Allowed (Watts)	≥ Total Designed (Watts) (See Table F)	Adjustments PAF Lighting Control Credits §140.6(a)2 (-) (See Table P)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 §140.6
Conditioned		623.2	0		= 623	≥ 566.4	0	=	566.4	COMPLIES
Unconditioned					=	≥		=		
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.

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all permanent designed lighting and all portable lighting in offices.

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 Changer	Watts per luminaire²	How is Wattage determined	Total Number of Luminaires	Excluded per §140.6(a)3	Design Watts	Field Inspector Pass	Field Inspector Fail
A	A	No	No	27.2	Mfr. Spec	12	No	326.4	☐	☐
D	D	No	No	21	Mfr. Spec	4	No	84	☐	☐

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F. INDOOR LIGHTING FIXTURE SCHEDULE

E	E	No	No	26	Mfr. Spec	6	No	156	☐	☐
Total Designed Watts: CONDITIONED SPACES								566.4		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4iB is adjusted to be 75% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) 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. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response §110.12(c)	Shut-off controls §130.1(c)	Pass	Fail
Not Required <= 10,000 SF	Whole Building Auto Time Switch	☐	☐

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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	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Sky lit Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector	
								Pass	Fail
Restrooms	Restrooms	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Breakrooms	Lounge Breakroom or Waiting Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Electrical/Security Rooms	Electrical Mechancial Telephone Room	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Ticket Booth	Retail Merchandise Sales	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Storages	Warehouse	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐
Vestibule	Corridor Area	Manual ON/OFF	Dimmer	Occupancy Sensor	N/A	N/A	No	☐	☐

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2*

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/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF

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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Restrooms	Restrooms	0.65	196	127.4	No	No
Storages	Commercial Industrial Storage Area	0.45	46	20.7	No	No
Breakrooms	Lounge Breakroom or Waiting Area	0.65	222	144.3	No	No
Ticket Booth	Retail Merchandise Sales	1	223	223	No	No
Electrical/Security Room	Electrical Mechancial Telephone Room	0.4	136	54.4	No	No
Vestibule	Corridor Area	0.6	89	53.4	No	No
	TOTALS:		912	623.2	See Tables J, or P for detail	

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 ORNAMENTAL/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.

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Q. RATED POWER REDUCTION COMPLIANCE FOR 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.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
○	●	NRCI-LTI-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room or a theater to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-05-E- Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐	☐
○	●	NRCI-LTI-06-E- Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐	☐

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U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection 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

Yes	No	Form/Title	Field Inspector Pass	Field Inspector Fail
●	○	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	☐	☐
○	●	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	☐	☐
○	●	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	☐	☐
○	●	NRCA-LTI-05-A. - Must be submitted for institutional tuning power adjustment factor (PAF)	☐	☐

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Darshan Patel	Documentation Author Signature: DARSHAN PATEL
Company: PBS Engineers	Signature Date: 2022-03-17
Address: 2100 East Route 66, Suite 210	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Glendora CA 91740	Phone: (626) 650-0350

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 eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
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, worksheets, 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 builder provides to the building owner at occupancy.

Responsible Designer Name: Kunal Shah	Responsible Designer Signature:
Company: PBS Engineers	Date Signed: 2022-03-17
Address: 2100 East Route 66, Suite 210	License: E17249
City/State/Zip: Glendora CA 91740	Phone: (626) 650-0350

E0.4

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER — E17249 EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
T-24 COMPLIANCE FORMS (INDOOR)

SHEET: 111 OF 145

BID DELIVERABLE

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A. GENERAL INFORMATION

01	Project Location (city)	Calexico	04	Total Illuminated Hardscape Area (ft²)	48260
02	Climate Zone	15			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Developed Parkland ☒ LZ-3: Moderately High - Urban Areas

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 or §141.0(b)2i for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 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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C. COMPLIANCE RESULTS

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

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L										Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)		Existing Power Allowance §141.0(b)2L (See Table N)		**Total Allowed** (Watts)		**Total Actual** (Watts)	**07 must be >= 08**
2,341.8	+	---	+	---	+	---	+	3,252.8	OR	---	=	5,594.6	≥	3,462.8	COMPLIES
Cutoff Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES with Exceptional Conditions

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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F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 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)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed 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(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
B	B	☐ Linear	35	Mfr. Spec	16	New	☐	560	NA; < 6200 lumens	☐	☐
SA	SA	☐ Linear	27.2	Mfr. Spec	99	New	☐	2,692.8	NA; < 6200 lumens	☐	☐
SB	SB	☐ Linear	20	Mfr. Spec	22	New	☒	---	NA; < 6200 lumens	☐	☐
SP	SP	☐ Linear	166	Mfr. Spec	31	New	☒	---	NA; < 6200 lumens	☐	☐
W	W	☐ Linear	30	Mfr. Spec	4	New	☐	120	NA; < 6200 lumens	☐	☐
WA	WA	☐ Linear	18	Mfr. Spec	5	New	☐	90	NA; < 6200 lumens	☐	☐
							Total Design Watts:	3462.8			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *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.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

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G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

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.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Automotive Hardscape	Photocontrol	Yes	Exempt*	☐	☐
Sales Canopy (Station)	Photocontrol	Yes	Exempt*	☐	☐
Sales Canopy (Ticketing)	Photocontrol	Yes	Exempt*	☐	☐
Pedestrian Hardscape	Photocontrol	Yes	Exempt*	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Automotive Hardscape	Bus Parking
Sales Canopy (Station)	Transit Station (Waiting)
Sales Canopy (Ticketing)	Transit Station (Ticketing)
Pedestrian Hardscape	

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I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-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.

☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)
This section does not apply to this project.
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	09	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrian Hardscape	Concrete	1260	0.03	37.8	360	0.4	144	181.8
						Initial Wattage Allowance for Entire Site (Watts):		350
						Total General Hardscape Allowance (Watts):		2341.8

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.

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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Shade Canopy	SalesCanopy	1025	0.622	637.55	B	35	16	560	560
						Total Design Watts for this Area:		560	
Bus Canopy	SalesCanopy	5125	0.622	3187.75	SA	27.2	99	2,692.8	2692.8
						Total Design Watts for this Area:		2692.8	
							Total Allowance (Watts) All Areas:		3252.8

[1] *FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft² for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

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 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 at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	ICTC Calexico Intermodal Transit Center	Report Page:	(Page 7 of 8)
Project Address:	608 Heber Ave	Date Prepared:	3/17/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection 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 must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	ICTC Calexico Intermodal Transit Center	Report Page:	(Page 8 of 8)
Project Address:	608 Heber Ave	Date Prepared:	3/17/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name:	Documentation Author Signature:
Darshan Patel	DARSHAN PATEL
Company: PBS Engineers	Signature Date:
Address: 2100 East Route 66, Suite 210	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Glendora CA 91740	Phone: (626) 650-0350

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 eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
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, worksheets, 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 builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Kunal Shah	
Company: PBS Engineers	Date Signed: 2022-03-17
Address: 2100 East Route 66, Suite 210	License: E17249
City/State/Zip: Glendora CA 91740	Phone: (626) 650-0350

E0.5

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

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APPROVED BY: ENGINEER DATE

SEAL:

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Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER E17249 EXP. 06-30-2024 ELECTRICAL STATE OF CALIFORNIA

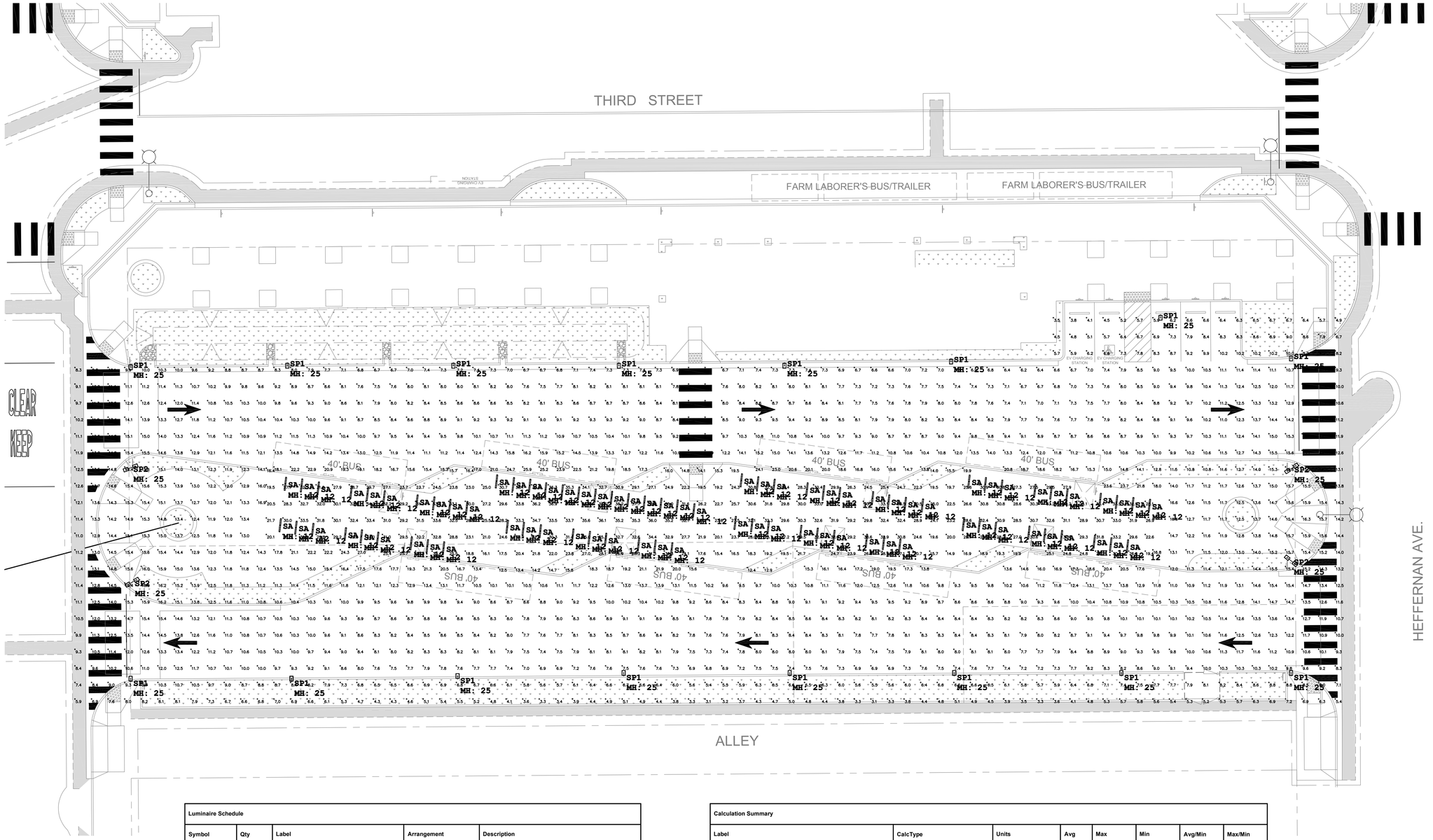
DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
T-24 COMPLIANCE FORMS (OUTDOOR)

SHEET: 112 OF 145

BID DELIVERABLE



Luminaire Schedule

Symbol	Qty	Label	Arrangement	Description
	16	SP1	SINGLE	Cooper McGraw Edison GLEON-SA3C-740-U-T3
	4	SP2	BACK-BACK	Cooper McGraw Edison GLEON-SA3C-740-U-T3
	79	SA	SINGLE	Cooper Neoray S124DS-C795D840-4F0-1E-UDD-F

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Canopy	Illuminance	Fc	27.67	38.6	12.4	2.23	3.11
Drive Lanes	Illuminance	Fc	10.35	27.0	3.1	3.34	8.71

N

NORMAL PHOTOMETRIC PLAN - OUTDOOR

SCALE: 1/16"=1'-0" | 1 | **E0.6**

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SEAL: PROFESSIONAL ENGINEER — E17249 EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: NORMAL PHOTOMETRIC PLAN - OUTDOOR

SHEET: 113 OF 145

BID DELIVERABLE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/CATALOG NO	LAMP DATA		INPUT VOLTS
			LAMPING	DRIVER	
A	4"W X 4'L RECESSED LED SLOT FIXTURE W/ FLUSH LENS	NEO-RAY S124DR-S-795D-8-40-ETG-4FO-1-U-DD-F-W OR APPROVED EQUAL	6.8W/FT	LED DRIVER 0-10V DIMMING DRIVER	UNV
B	4' SURFACE MOUNTED LED STRIP FIXTURE W/ SEMI-FROSTED LENS	METALUX 4SNLED-LD5-46SL-LN-UNV-L840-CD1-U OR APPROVED EQUAL	35W	LED DRIVER 0-10V DIMMING DRIVER	UNV
C	4"W X 4'L RECESSED LED PERIMETER FIXTURE W/ FLUSH LENS	NEO-RAY S124DRP-S-1020D-8-40-GYP-4FO-1-U-DD-F-W OR APPROVED EQUAL	8.9W/FT	LED DRIVER 0-10V DIMMING DRIVER	UNV
D	6" LED RECESSED DOWNLIGHT FIXTURE	HALO COMMERCIAL HC6-20-D010-HB128APK-HM6-12-835-61MD-C	21W	LED DRIVER 0-10V DIMMING DRIVER	UNV
E	4"W X 4'L SUSPENDED LED SLOT FIXTURE W/ FLUSH LENS	NEO-RAY S124DP-C-795D-8-40-C4-T1-4FO-1-U-DD-F-W OR APPROVED EQUAL	26W	LED DRIVER 0-10V DIMMING DRIVER	UNV
F	LED ARM MOUNTED SIGN LIGHT W/ REMOTE DRIVER (XX = SPECIFY LENGTH)	COLE SL-XX-ARM/STR-BLK-4K OR APPROVED EQUAL	6W/FT	LED DRIVER 0-10V DIMMING DRIVER	UNV
SA	LED SURFACE STRIPLIGHT FIXTURE (WET LOCATION)	NEO-RAY S124DS-C-795D-8-40-T1-4FO-1-U-DD-F-W OR APPROVED EQUAL	6.8W/FT	LED DRIVER 0-10V DIMMING DRIVER	UNV
SB	LED UPLIGHT ON PALM TREE, 10 FEET AFG.	LUMIERE 1004-A2-RCS-RW-LED 4080-M-BZ-L2-TSR2 OR APPROVED EQUAL	20W	LED DRIVER 0-10V DIMMING DRIVER	120
SP	SINGLE/DOUBLE HEAD POLE MOUNTED LED FIXTURE MOUNTED ON 20' ROUND STRAIGHT STEEL	MCGRAW EDISON GLEON-SA3-C-740-U-T3-BZ-MS/DIM-L40W W/ RSS4A20S-F-N1/2-X-V POLE OR APPROVED EQUAL	166W		UNV
SS	20' LED SOLAR POLE FIXTURE	SOL INC. SBL-CFQ4-T2D-HS #TPZ-1SL5E60Q3H-2D-53 OR APPROVED EQUAL	60W	–	UNV
W	LED EXTERIOR WALL PACK	RAYON #T632LED-30-35-T1-MTO-PC1 OR APPROVED EQUAL	30W	LED DRIVER 0-10V DIMMING DRIVER	UNV
WA	LED EXTERIOR WALL ART LIGHT FIXTURE	TROY #RA12-LED1840-MB-FG-3 OR APPROVED EQUAL	18W	LED DRIVER 0-10V DIMMING DRIVER	UNV
SL	STREET LIGHTING FIXTURE AND POLE TO MATCH THE REQUIREMENTS	PELCO MODEL # AP-7501 SERIES	200W	LED DRIVER 0-10V DIMMING DRIVER	UNV
X	LED EXIT SIGN	SURELITES	1W	–	UNV

GENERAL NOTES:

1. PROVIDE ALL NECESSARY MOUNTING ACCESSORIES AND LAMPS AS REQUIRED FOR AN OPERABLE LIGHTING SYSTEM.
2. VERIFY LAMP COLOR TEMPERATURE RATINGS WITH ARCHITECT/ CITY PRIOR TO ORDERING OF LAMPS.
3. VERIFY ALL LIGHT FIXTURE MOUNTING REQUIREMENTS WITH ARCHITECT.
4. PROVIDE EMERGENCY BATTERY PACKS FOR EMERGENCY FIXTURES AS SHOWN ON LIGHTING PLAN UNLESS THERE IS A GENERATOR/INVERTER FOR EMERGENCY LOADS.

E0.7

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

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T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00

PRITAL PATEL, P.E. _____ DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL E17249 EXP. 06-30-2024 ELECTRICAL STATE OF CALIFORNIA

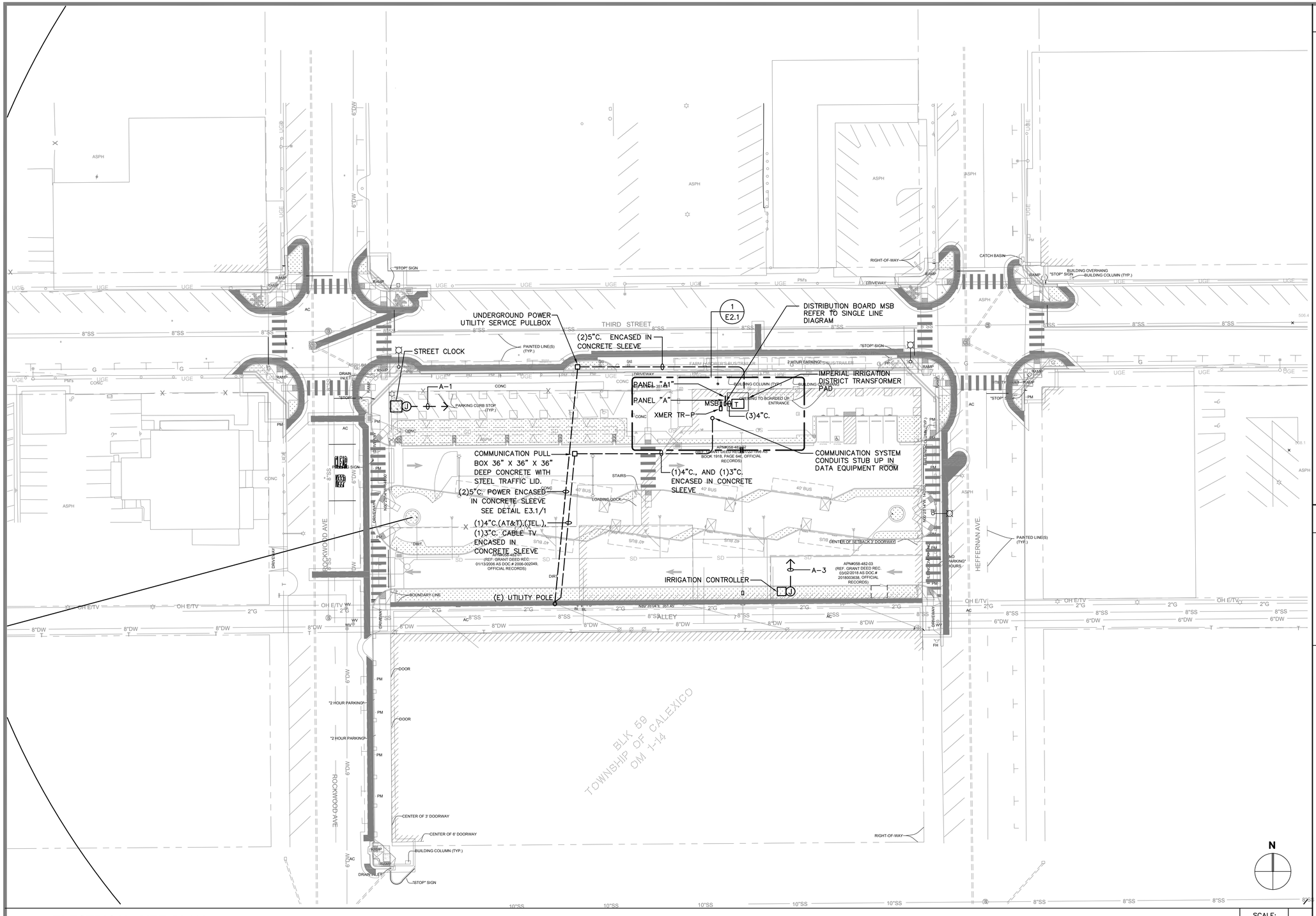
DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
LIGHTING SCHEDULES

SHEET:
114
OF
145

BID DELIVERABLE



ELECTRICAL SITE PLAN

SCALE: 1/32"=1'-0" | 1

GENERAL NOTES

1. ALL ITEMS SUCH AS PRIMARY AND SECONDARY SERVICE CONDUITS, CONDUCTORS, DUCTS, PAD MOUNT SLAB BOXES, POLE RISERS, PULL BOXES AND PROTECTIVE COVERING FROM SERVICE POINT LOCATION SHALL BE PROVIDED AND/OR INSTALLED BY THIS ELECTRICAL CONTRACTOR AND SHALL BE VERIFIED WITH IID THE SERVING UTILITY COMPANY.
2. SEE SINGLE LINE DIAGRAM SHEET E0.04 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
4. CONDUIT ROUTING ON PLAN IS SHOWN DIAGRAMMATIC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE EXACT CONDUIT ROUTING WITH OTHER TRADES TO AVOID INTERFERENCES WITH BUILDING FOOTINGS, EXISTING UTILITIES AND UNDERGROUND WORK BY OTHER TRADES.
5. ALL ELECTRICAL EQUIPMENT INDICATED ON THIS PLAN SHALL BE NEW, AS SPECIFIED, UNLESS OTHERWISE NOTED.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL BE COORDINATED IN THE FIELD WITH THE GENERAL CONTRACTOR AND THE ARCHITECT.
7. REFER TO GENERAL NOTES, SHEET E0.1 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
8. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATIONS OF EXTERIOR AREA LIGHT STANDARDS WITH ARCHITECT AND CIVIL ENGINEER PRIOR TO INSTALLATION.
9. ALL UNDERGROUND UTILITY CONDUIT RUNS SHALL BE ENCASED IN A 3" CONCRETE ENVELOPE.
10. ALL UNDERGROUND CONDUITS SHALL CONTAIN GROUNDING CONDUCTORS, PER NEC.
11. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND INFRASTRUCTURE FOR NEW UNDERGROUND PRIMARY CONDUIT, UTILITY TRANSFORMER PAD AND SECONDARY UNDERGROUND CONDUIT/TRENCH AS SHOWN ON POWER SITE PLAN. ALL INSTALLATIONS HAVE TO BE PROVIDED PER EDISON STANDARDS AND FULLY COORDINATED WITH THE EDISON SERVICE PLANNER AND DESIGNED DRAWINGS.
12. CONTRACTOR WILL NEED TO CONTACT UTILITY COMPANY FOR THEIR STANDARDS AND SPECIFICATIONS FOR THESE ELECTRICAL ITEMS. THE AWARDED CONTRACTOR IS REQUIRED TO CONTACT THE IID SERVICE PLANNER FOR FINAL COORDINATION AND SCHEDULING.
13. ELECTRICAL UTILITY SERVICE IS PROVIDED BY IMPERIAL IRRIGATION DISTRICT. CONTACT IS MR. OSCAR RUELAS TEL: 760-482-3423
14. CONTRACTOR TO COORDINATE ALL SERVICE SCOPE OF WORK WITH APPROVAL SERVICE UTILITY PLAN.
15. MAIN SWITCHBOARD SHALL BE SUBMITTED TO IID FOR APPROVAL BEFORE INSTALLATION.

DIG-ALERT/SCE CONTACT INFORMATION

FOR DIG ALERT ID NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE 1-800-422-4133 TWO WORKING DAYS BEFORE DIGGING.

POWER UTILITY SERVICE CONTACT:
IID - OSCAR ----- (---)---------
26100 MENIFEE RD, MENIFEE CA. 92584

TELEPHONE UTILTY SERVICE CONTACT:
AT&T - (---)201-4702

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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL E17249 EXP. 06-30-2024 ELECTRICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

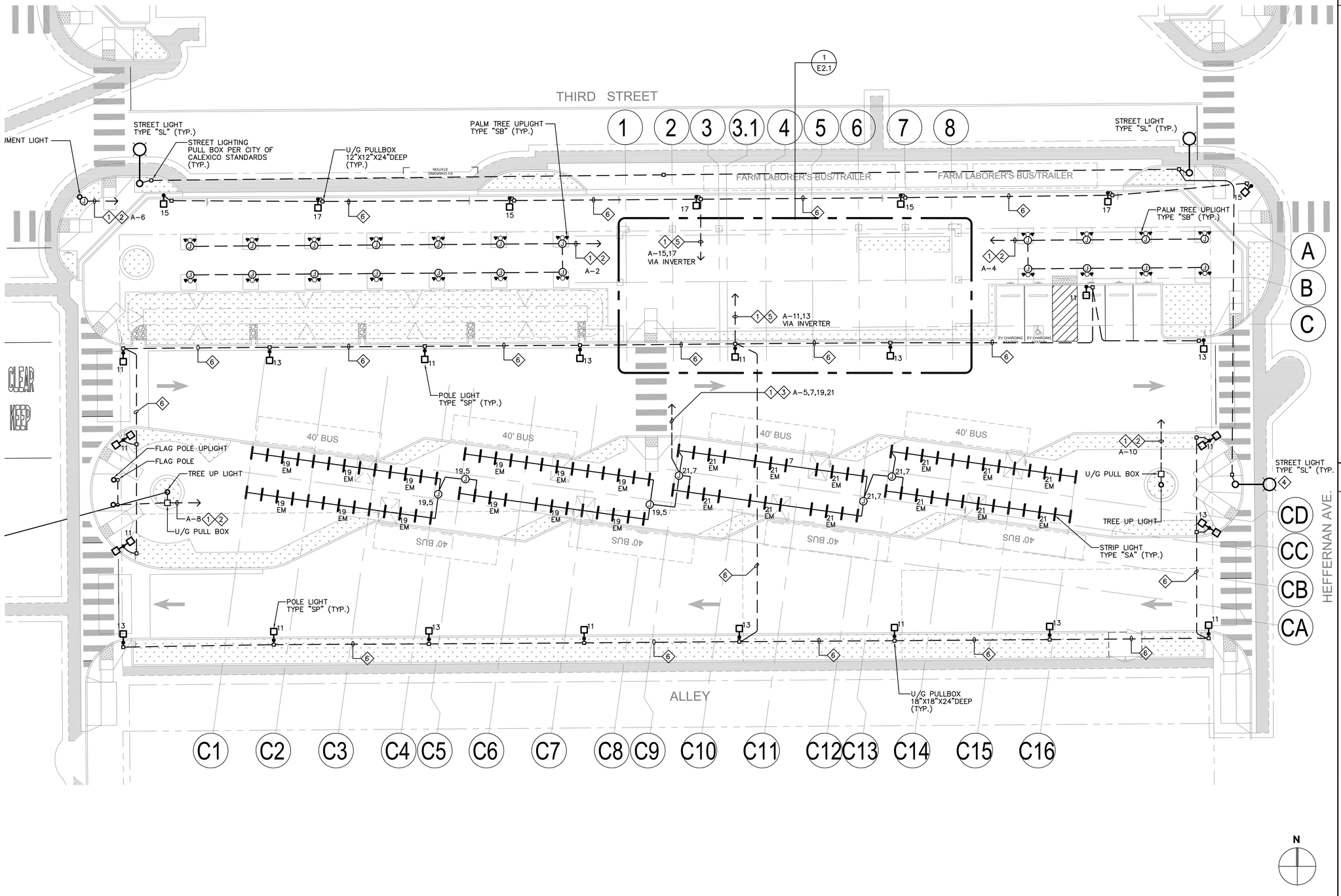
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ELECTRICAL SITE PLAN

SHEET: 115 OF 145

E1.1

BID DELIVERABLE



GENERAL NOTES

1. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1" CONDUIT UNDERGROUND.
2. CONDUIT SHALL BE SCHEDULE 40 PVC.
3. MINIMUM CONDUIT IN CEILING OR WALLS SHALL BE 3/4".
4. NEW LIGHTING FIXTURE POLE BASE TO BE PROVIDED AS PART OF THIS PROJECT SCOPE OF WORK. REFER TO DETAIL SHEET E4.1 FOR POLE BASE DETAIL.
5. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
6. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
   A. BRANCH CIRCUITS – LIGHTING AND POWER.
      1. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
      2. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.
8. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDER GROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
9. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMMODATE NEW DESIGN.
10. CONTRACTOR TO PROVIDE 16 CIRCUIT PROGRAMMABLE LIGHT KEEPER LIGHTING CONTROL PANEL MODEL #LK-16 OR APPROVED EQUAL.

REMODEL KEY NOTES

1. LIGHTING CIRCUIT SHALL BE ROUTED VIA LIGHTING CONTROL PANEL.
2. PROVIDE 1"C. 2#10+1#10 GND.
3. PROVIDE 1"C. 6#10+1#10 GND.
4. PROVIDE 1 1/2" CONDUIT 2#8 +1#10 GND. AND CONNECT TO STREET LIGHTING POWER SOURCE AND CONTROLS
5. PROVIDE 1"C. 8#10+1#10 GND.
6. PROVIDE 1 1/4"C. 4#8+1#10 GND.

OVERALL LIGHTING PLAN

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

E1.2

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

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_____ PRITAL PATEL, P.E. _____ DATE

SEAL: PROFESSIONAL ENGINEER — PRITAL PATEL — E17249 — EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

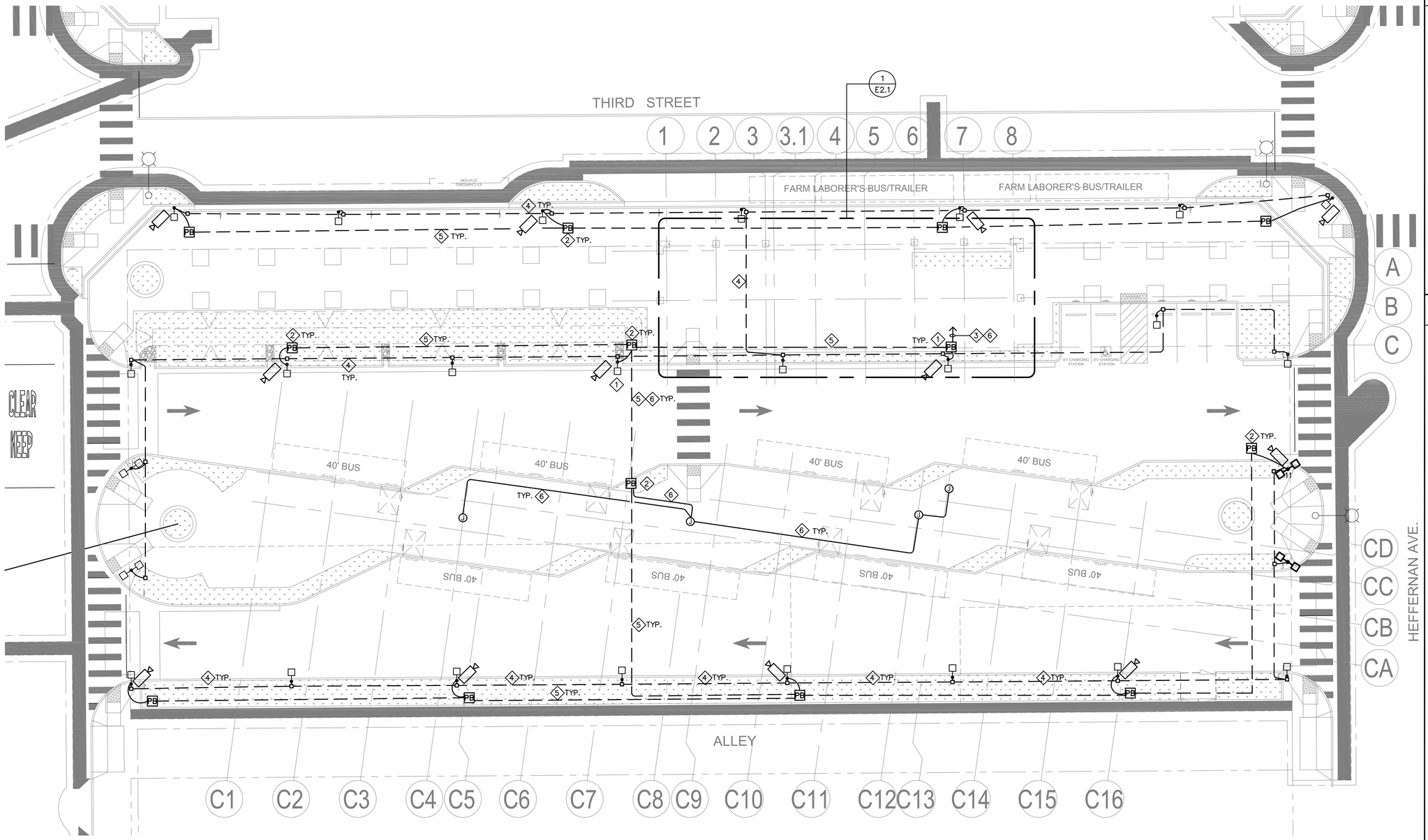
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: OVERALL LIGHTING PLAN

SHEET: 116 OF 145

BID DELIVERABLE

Plotted - 1/30/2024 3:24:06 PM :: Saved - 1/8/2024 11:15:24 AM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\E1.2.dwg :: kkiliona



GENERAL NOTES

1. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1" CONDUIT UNDERGROUND.
2. CONDUIT SHALL BE SCHEDULE 40 PVC.
3. MINUMUM CONDUIT IN CEILING OR WALLS SHALL BE 3/4".
4. NEW LIGHTING FIXTURE POLE BASE TO BE PROVIDED AS PART OF THIS PROJECT SCOPE OF WORK. REFER TO DETAIL SHEET E4.1 FOR POLE BASE DETAIL.
5. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
6. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
8. PROVIDE (13) AVIGILON MODEL #2.0C-H5A-IRPTZ-DP40-WP MULTISENSOR CAMERAS, WITH MOUNTING ACCESSORIES AND INFRASTRUCTURE FOR CONNECTIVITY.INCLUDING POLE INSTALLATION AND OPERATION INTERFACE AT NETWORK RACK.
9. REFER TO E3.2 FOR INSTALLATION OF SITE SECURITY SYSTEM CAMERAS AND ASSOCIATED NETWORK INFRASTRUCTURE COORDINATE INSTALLATION AS PART OF SUBMITTAL WITH POLE MANUFACTURER

REMODEL KEY NOTES

1. INGRADE CONCRETE PULL BOX WITH H20 STEEL COVER FOR LIGHTING SYSTEM. 24"X24"X 36"DEEP,
2. INGRADE CONCRETE PULL BOX WITH H20 STEEL COVER FOR SIGNAL SYSTEM. 24"X24"X 36"DEEP
3. PROVIDE (2) 2"CONDUIT FOR COMMUNICATION SYSTEM TO IDF RACK
4. PROVIDE 2" C.4#10+1#10GND RUN PARALLEL AND VIA LIGHTING PULL BOX TERMINATE IN POLE BASE FOR CAMERA OPERATING POWER
5. PROVIDE 2" CONDUIT FOR 6 STRANDS SINGLE MODE GEL FILLED FIBER OPTIC CABLE FOR CAMERA CONNECTIVITY.
6. PROVIDE 1" CONDUIT FOR FUTURE COMMUNICATION USE.

OVERALL POWER AND COMMUNICATION PLAN

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

E1.3

NO.	BY:	REVISION COMMENTS	
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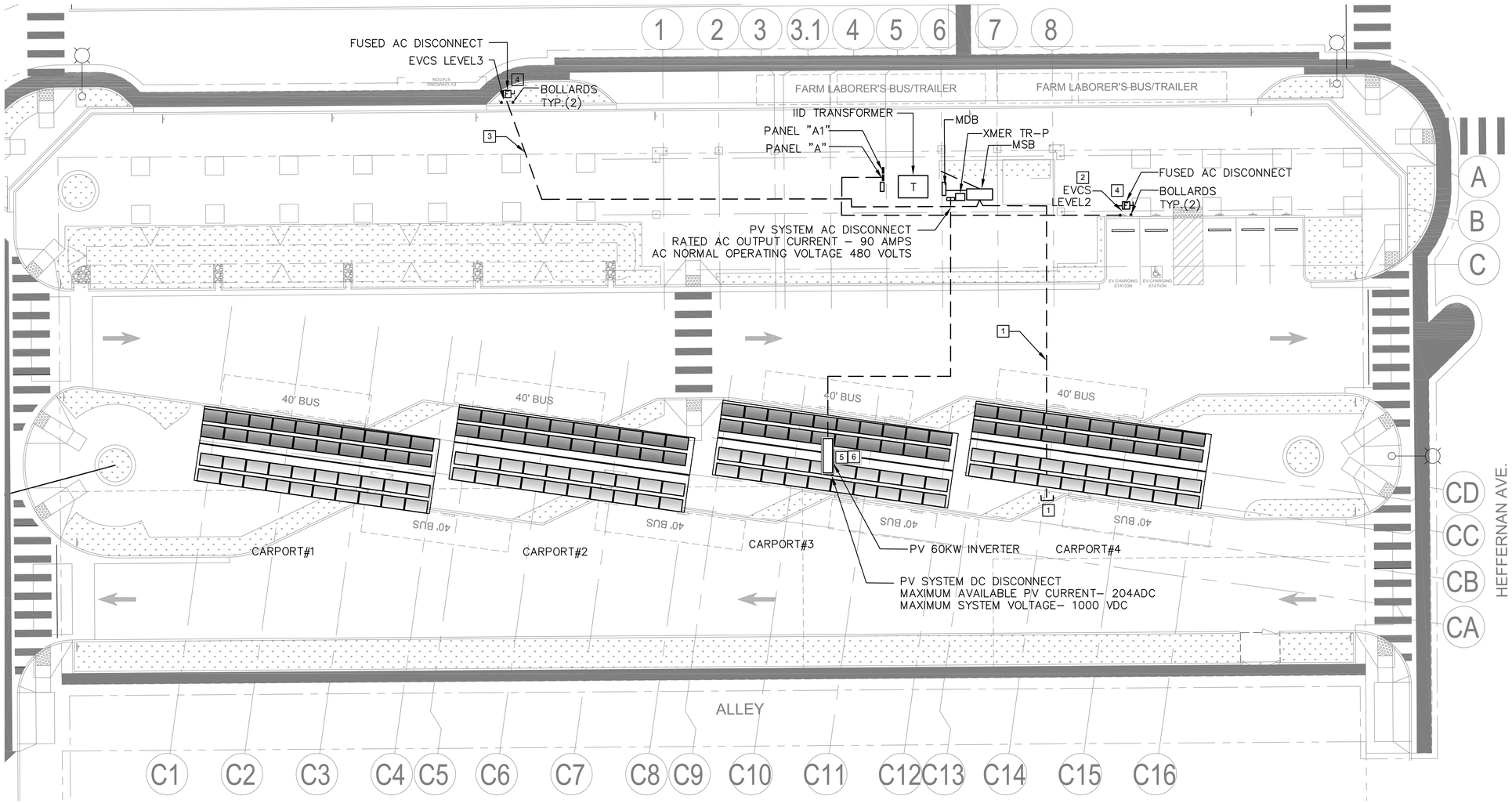
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: OVERALL POWER AND COMMUNICATION PLAN

SHEET: 117 OF 145

BID DELIVERABLE



GENERAL NOTES

1. THE SYSTEM COMPLIES WITH THE 2022 CBC, CEC, NEC.
2. ALL THE PV EQUIPMENTS ARE LISTED BY A RECOGNIZED TESTING LABS. INVERTERS ARE UL 1741 COMPLIANT.
3. CONDUCTORS ARE 90 DEG C RATED.
4. ANY CONDUCTORS EXPOSED TO SUNLIGHT ARE LISTED AS SUNLIGHT RESISTANT.
5. THE MODULES WILL BE ATTACHED THE THE EQUIPMENT GROUNDING CONDUCTOR ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
6. ALL NEW ROOFTOP PENETRATIONS SHALL BE SEALED AND MADE WEATHER–TIGHT WITH APPROVED CHEMICAL SEALANT AND FLASHINGS WHERE REQUIRED PER CODE AND GENERAL BUILDING AND ROOFING WORKMANSHIP STANDARDS BY A LICENSED CONTRACTOR.
7. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE NEMA 3R OR BETTER RATED. ALL EXTERIOR CONDUIT AND CONNECTORS SHALL BE RATED FOR WET LOCATIONS.
8. PV WIRE BLACK WIRE MAY BE FIELD–MARKED WHITE IN COMPLIANCE WITH CXC 200.6 (A)(6).
9. PV MODULE CONDUCTORS LOCATED UNDER ARRAYS WILL BE SECURED IN A WORKMANLIKE MANNER IN.
10. COMPLIANCE WITH CEC WO.J2.
11. ALL DISCONNECTING SWITCHES WILL BE CONFIGURED SO THAT ALL ENERGIZED CONDUCTORS WHEN DISCONNECT IS OPEN SHALL BE ON THE TERMINALS MARKED, 'LINE SIDE'(TYPICALLY THE UPPER TERMINALS).
12. THE TOTAL RATING OF ALL OCPD IN SOLAR LOAD CENTERS SHALL NOT EXCEED THE RATED AMPACITY OF THE BUSBAR EXCLUDING THE OCPD PROTECTING THE BUSBAR IN COMPLIANCE.
13. THE PV SYSTEM BACK–FEED BREAKER SHALL BE INSTALLED ON THE OPPOSITE END OF THE BUS BAR AND IT SHALL ALSO BE SIZED APPROPRIATELY.
14. THIS DESIGN ADHERES TO CALIFORNIA'S NET ENERGY METERING 3.0 (NEM3) REGULATIONS, ENABLING RENEWABLE ENERGY GENERATION AND GRID CONNECTION. ENSURE ONGOING COMPLIANCE WITH NEM3 PROGRAM REQUIREMENTS, INCLUDING INTERCONNECTION AND REPORTING. STAY INFORMED ABOUT PROGRAM UPDATES FOR CONTINUED COMPLIANCE.

REMODEL KEY NOTES

[1] PROVIDE 1–1/4" UNDERGROUND PVC SCHED. 40 TYPE CONDUITS WITH PULL WIRES STUB UP FOR FUTURE POWER CONNECTION TO EV CHARGING STATIONS AND (2) 1–1/4"CONDUITS FOR THE DATA RUN. CONDUIT STUB UP SHALL BE PROVIDED WITH CONDUIT CAP. REFER TO SHEET E0.3 FOR THE CONDUCTOR INFORMATION.

[2] PROVIDE (1) 1–1/4" UNDERGROUND PVC SCHED. 40 TYPE CONDUIT WITH PULL WIRES TO EV CHARGING STATIONS AND (1) 1–1/4" CONDUIT FOR THE DATA RUN, FED FROM PANEL A – CIRCUIT 35, 37.

[3] PROVIDE (1) 1–1/4" UNDERGROUND PVC SCHED. 40 TYPE CONDUIT TO EV CHARGING STATIONS AND (1) 1–1/4" CONDUIT FOR THE DATA RUN. FOR CONDUCTOR SCHEDULE REFER TO SHEET E0.3.

[4] 90A FUSED, 100A SWITCH AC DISCONNECT FOR DOWNSTREAM SOLAR INVERTER.

[5] 60KW AC INVERTER TO BE MOUNTED ON THE CARPORT#3 BEAM, ALONG SIDE PV DISCONNECT IN A READILY ACCESSIBLE SPACE, LOCKABLE ENCLOSURE, NEMA 3R.

[6] ALL THE 5 STRINGS PER MPPT AND 3 MPPTS AT THE SOLECTRIA INVERTER, EACH STRING LENGTH NEEDS TO BE IDENTICAL TO THE OTHER. AND EQUAL PV MODULES ON EACH STRING.

CODE DATA

THIS PV SYSTEM INSTALLATION IS SUBJECT TO INSPECTION BY THE AUTHORITY HAVING JURISDICTION.

ALL PV SYSTEM SHALL BE PROVIDED WITH INVERTERS THAT ARE LISTED FOR RAPID SHUTDOWN, CONTROLLED CONDUCTORS MORE THAN 10FT FROM THE ARRAY WILL BE LIMITED TO NOT MORE THAN 30VOLTS AND 24VOLT–AMPERE WITHIN 10 SECONDS OF RAPID SHUTDOWN INITIATION AT INVERTER THROUGH THE INVERTER POWER OPTIMIZER RAPID SHUTDOWN SYSTEM.

N

OVERALL EV AND PV PLAN

SCALE: 1/16"=1'–0" | 1

E1.4

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SEAL: REGISTERED PROFESSIONAL ENGINEER — E17249 EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: OVERALL EV AND PV PLAN

SHEET: 118 OF 145

BID DELIVERABLE

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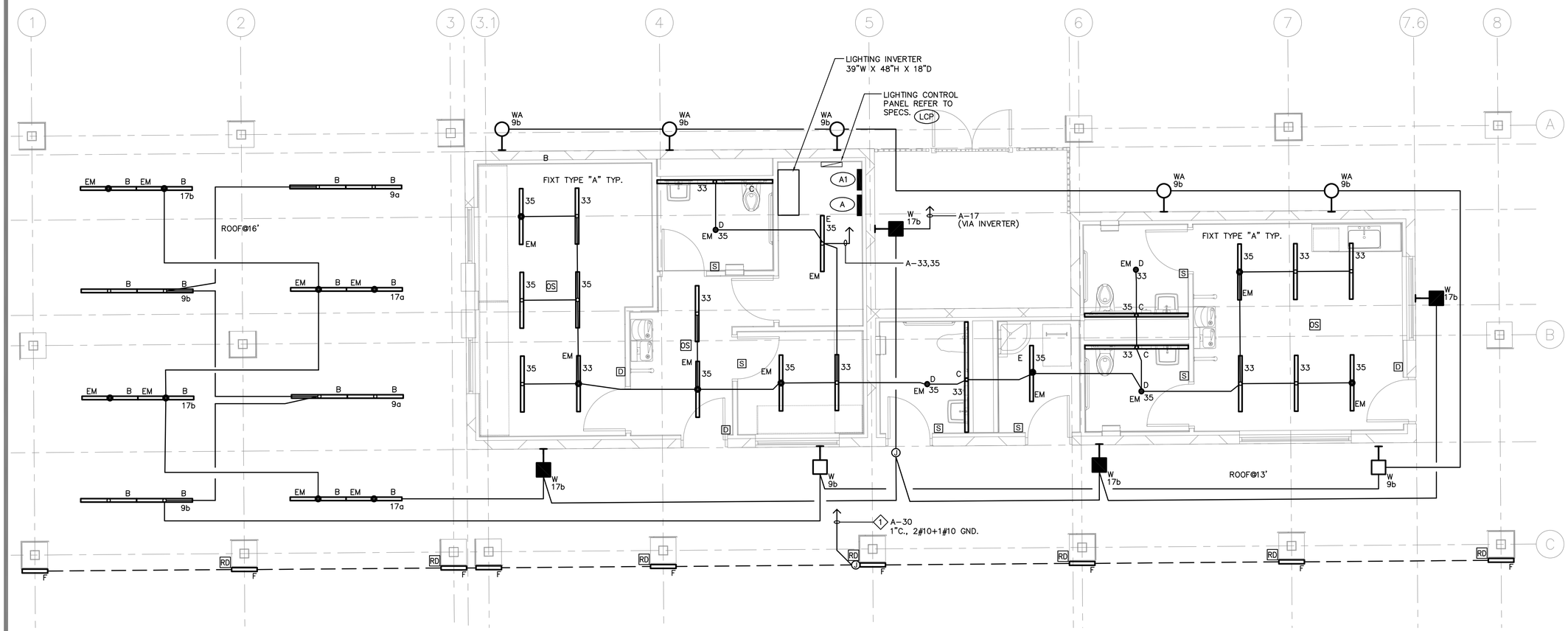

GENERAL NOTES

1. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1" CONDUIT UNDERGROUND.
2. CONDUIT SHALL BE SCHEDULE 40 PVC.
3. MINIMUM CONDUIT IN CEILING OR WALLS SHALL BE 3/4".
4. NEW LIGHTING FIXTURE POLE BASE TO BE PROVIDED AS PART OF THIS PROJECT SCOPE OF WORK. REFER TO DETAIL SHEET E4.1 FOR POLE BASE DETAIL.
5. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
6. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.
   A. BRANCH CIRCUITS – LIGHTING AND POWER.
      1. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
      2. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.

1. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDER GROUNDED CONDUCTORS WITH CEC 210.4(B)
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMMODATE NEW DESIGN.
3. CONTRACTOR TO PROVIDE 16 CIRCUIT PROGRAMMABLE LIGHT KEEPER LIGHTING CONTROL PANEL MODEL #LK-16 OR APPROVED EQUAL.

REMODEL KEY NOTES

1. LIGHTING FIXTURE CIRCUIT SHALL BE ROUTED VIA THE LIGHTING CONTROL PANEL.

N

ENLARGED LIGHTING PLAN

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

E2.1

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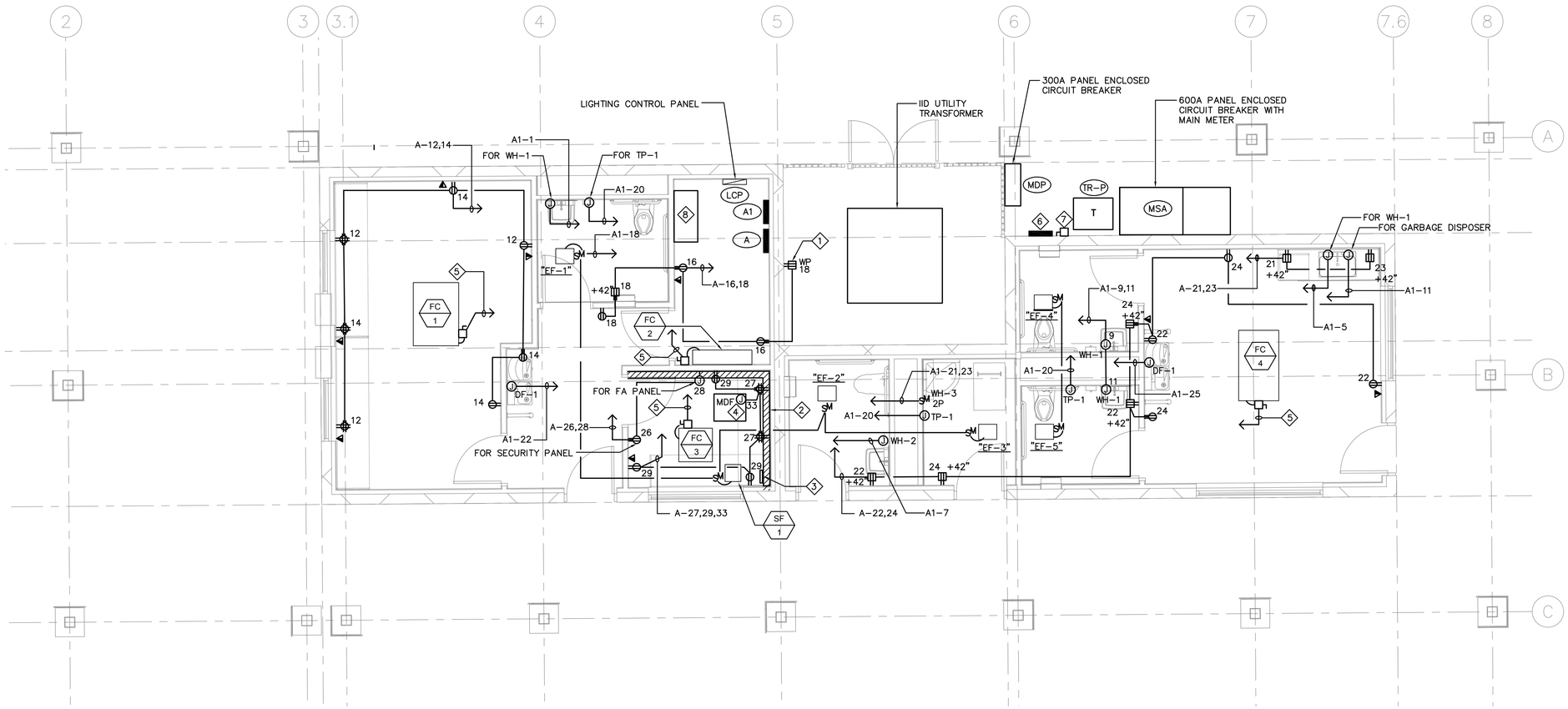
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ENLARGED LIGHTING PLAN

SHEET: 119 OF 145

BID DELIVERABLE



GENERAL NOTES

1. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1" CONDUIT UNDERGROUND.
2. CONDUIT SHALL BE SCHEDULE 40 PVC.
3. MINUMUM CONDUIT IN CEILING OR WALLS SHALL BE 3/4".
4. NEW LIGHTING FIXTURE POLE BASE TO BE PROVIDED AS PART OF THIS PROJECT SCOPE OF WORK. REFER TO DETAIL SHEET E4.1 FOR POLE BASE DETAIL.
5. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
6. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
7. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.

   A. BRANCH CIRCUITS – LIGHTING AND POWER.
      1. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).
      2. #8 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.

1. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDER GROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITION, PRIOR TO BID TO DETERMINE FULL EXTENT OF DEMOLITION WORK TO ACCOMMODATE NEW DESIGN.
3. CONTRACTOR TO PROVIDE 16 CIRCUIT PROGRAMMABLE LIGHT KEEPER LIGHTING CONTROL PANEL MODEL #LK-16 OR APPROVED EQUAL.

REMODEL KEY NOTES

1. FOR SERVICE WEATHERPROOF RECEPTACLE. PROVIDE WITH LOCK-ON DEVICE.
2. 3/4" FIRE RESISTANT PLYWOOD PAINTED TO MATCH BUILDING INTERIOR.
3. TELEPHONE/DATA GROUND BUS BAR SEE DETAIL SHEET.
4. PROVIDE FLOOR MOUNTED MDF CABINET WITH UPS, PATCH PANEL AND NETWORK SWITCH PER IT DEPARTMENT REQUIREMENT.
5. PROVIDE INTERLOCK OF INDOOR UNIT WITH OUTDOOR UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE REQUIREMENTS WITH OTHER TRADES PRIOR TO ROUGH-IN.
6. PROVIDE EV PANEL 400A, 480V/277 3ø, 4W.
7. PROVIDE 100A FUSED DISCONNECT, NEMA-3R ENCLOSURE.
8. LIGHTING INVERTER 5000VA 120/208V, 3P,4W 39"W X 48"H X 18"D

ENLARGED POWER AND COMMUNICATIONS PLAN

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

E2.2

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PROJECT: ICTC
FILE NAME:
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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ENLARGED POWER AND COMMUNICATION PLAN

SHEET: 120 OF 145

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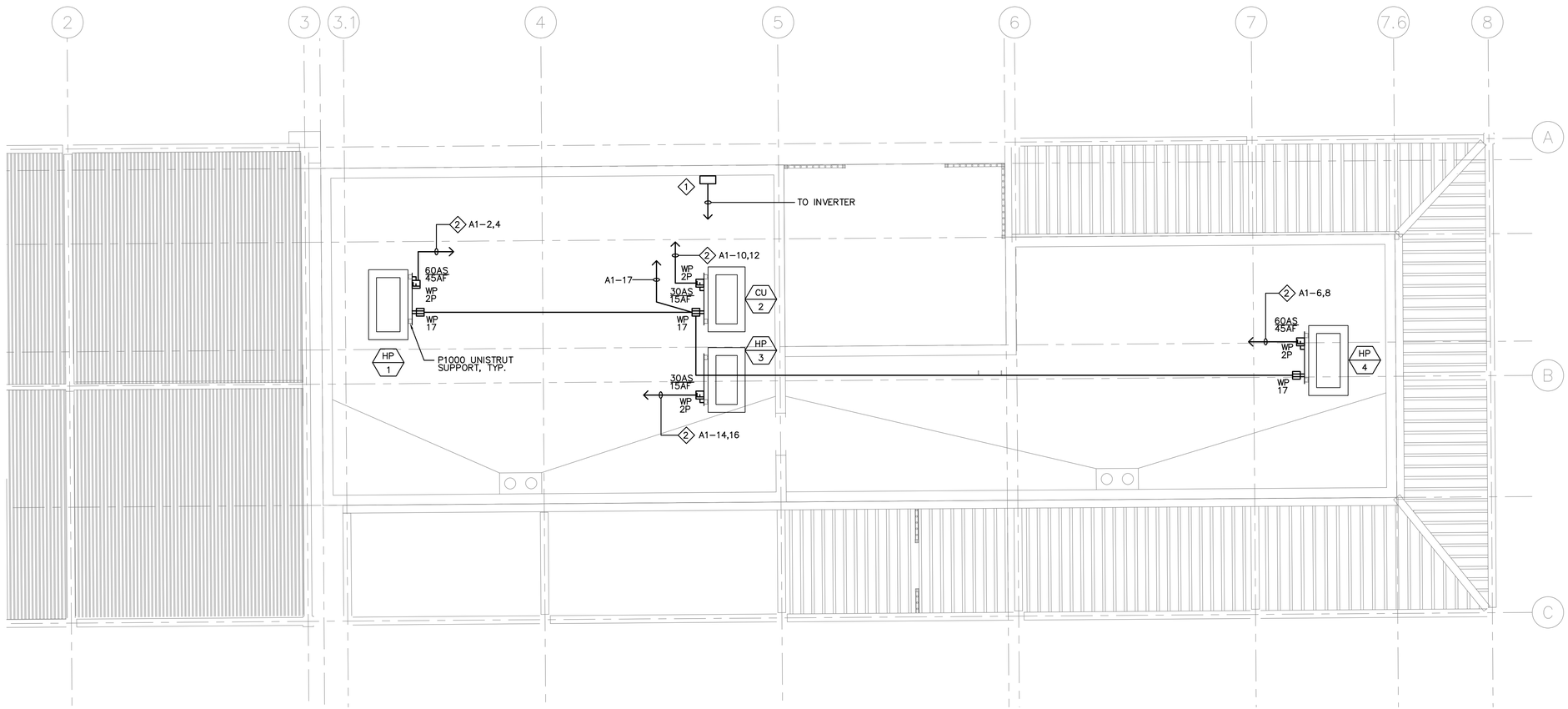

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GENERAL NOTES

1. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
2. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
3. ALL RACEWAY SHALL CONTAIN A CODE–SIZE (NEC–250), INSULATED, GREEN, COOPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
4. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN INSULATION RATED FOR 75°/90°C. WATERPROOFING AND FIRE STOP SHALL BE USED ON ALL PENETRATIONS THRU FIRE RATED WALLS.
5. CONTRACTOR TO PROVIDE ALL NECESSARY CONDUIT & WIRING FOR CONTROL OF ALL HVAC EQUIPMENT. COORDINATE ALL CONTROL WIRING WITH MECHANICAL CONTRACTOR.
6. CONDUIT RUNS TO BE ROUTED BELOW ROOF, LIMIT SOLAR EXPOSURE OF CONDUIT RUN(S) TO 5' MAX. PROVIDE APPROVED PENETRATIONS FOR ALL CONDUITS (INCLUDING POWER AND CONTROL) SERVING ROOFTOP EQUIPMENT.
7. ALL ROOFTOP ELECTRICAL EQUIPMENT SHALL BE NEMA–3R, WEATHER PROOF HEAVY DUTY, ALL FITTING SHALL BE WATERTIGHT, STEEL.
8. ALL DISCONNECTING MEANS SHALL BE INDEPENDENTLY SUPPORTED WITH FLEXIBLE CONNECTION TO ROOFTOP MECHANICAL EQUIPMENT, ALLOW NO ELECTRICAL EQUIPMENT TO BE MOUNTED ONTO MECHANICAL EQUIPMENT.
9. ALL ROOF PENETRATIONS SHALL BE WATER TIGHT AND PER ROOF MANUFACTURER'S REQUIREMENTS.
10. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE REQUIRED ELECTRICAL CLEARANCE PER CEC 110.26.
11. ALL FINAL CONNECTION TO ROTATING HVAC EQUIPMENT SHALL BE MADE WITH SEAL TIGHT FLEX CONNECTION.

REMODEL KEY NOTES

1. PROVIDE 12" X12" X6" DEEP WEATHERPROOF NEMA 3R PULLBOX WITH HINGED COVER.
2. PROVIDE 1"C. 2#6+1#10 & 4#10 WITH #10 GND, TO RESPECTIVE FCU. REFER TO MECHANICAL DRAWINGS FOR LOCATION AND EXACT REQUIREMENTS.

ENLARGED ROOF PLAN

SCALE: 1/4" = 1'–0" 1

E2.3

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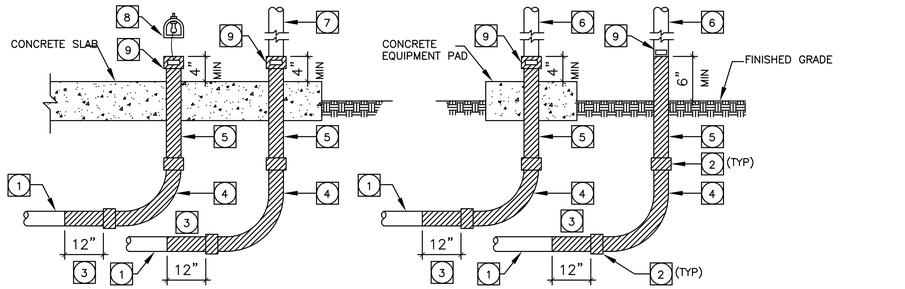
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ENLARGED ROOF PLAN

SHEET: 121 OF 145

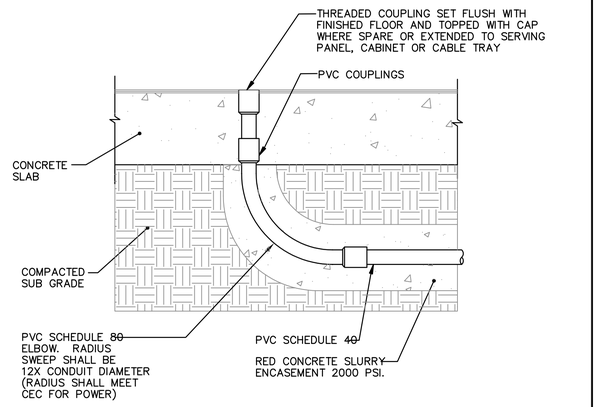
BID DELIVERABLE



1. PVC SCH 40 CONDUIT ENCASED IN CONCRETE.
2. CONDUIT COUPLING.
3. WRAPPED 12" OF PVC CONDUIT WITH 40 MIL BLACK ELECTRICAL PLASTIC TAPE.
4. GALVANIZED RIGID STEEL CONDUIT ELBOW WRAPPED AROUND WITH 40 MIL BLACK ELECTRICAL PLASTIC TAPE.
5. GALVANIZED RIGID STEEL CONDUIT WRAPPED AROUND WITH 40 MIL BLACK ELECTRICAL PLASTIC TAPE.
6. RIGID GALVANIZED STEEL CONDUIT FOR EXTERIOR INSTALLATION.
7. ELECTRICAL METALLIC CONDUIT FOR INTERIOR INSTALLATION.
8. PROVIDE PVC CAP OVER SPARE CONDUITS. ATTACH EYE BOLT TO PVC CAP AND TIE PULL ROPE TO EYE BOLT.
9. PROVIDE CONDUIT I.D. INDICATING CONDUIT USE AND OTHER END.

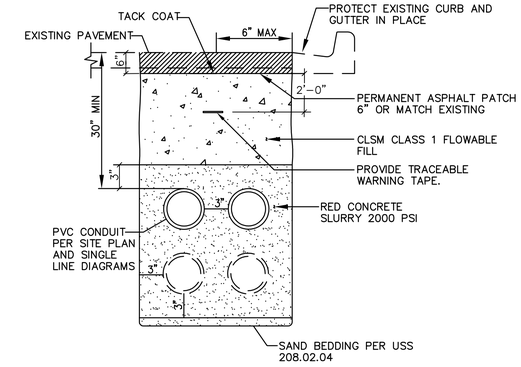
CONDUIT STUB UP DETAIL

NOT TO SCALE | 6



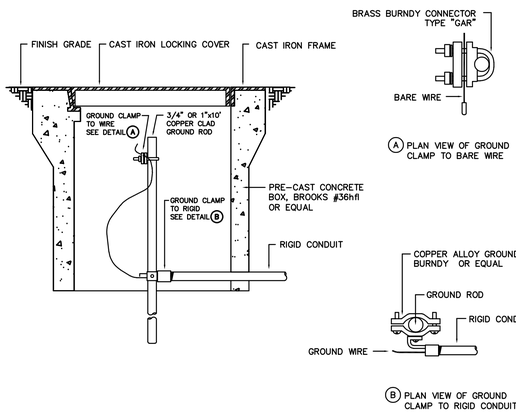
BELOW GRADE CONDUIT INSTALLATION

NOT TO SCALE | 4



CONDUIT TRENCH IN PAVED AREA DETAIL

NOT TO SCALE | 1



GROUND WELL DETAIL

NOT TO SCALE | 9

1. Floor or Wall Assembly —— Min 4–1/2 in. thick reinforced lightweight or normal weight (100–150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 12 in.

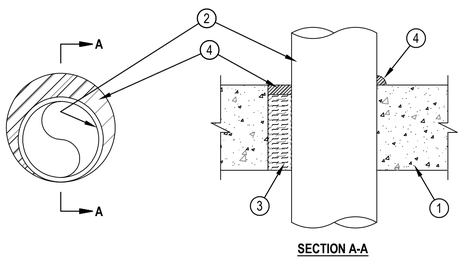
   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants —— One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1–1/4 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe —— Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe —— Nom 10 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit —— Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   D. Copper Tubing —— Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe —— Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material —— Min 3 in. thickness of min 4 pcf mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. thickness of min 4 pcf mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

4. Fill, Void or Cavity Material* —— Sealant —— Min 1/2 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CP601S or CP604 sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC —— CP601S, CP604, CP606 or FS–ONE Sealant

*Bearing the UL Classification Mark



SECTION A-A

System No. C-AJ-1149
F Rating -- 2 Hr
T Rating -- 0 Hr
L Rating At Ambient -- Less Than 1 CFM/sq ft
L Rating At 400 F -- 4 CFM/sq ft
W Rating -- Class I (See Item 4)

COND. PENETRATION THRU 2-HR CONC. FLR/WALL

NOT TO SCALE | 7

1. Wall Assembly —The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

   A. Studs —Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2–1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* —Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5–1/2 in.
   The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

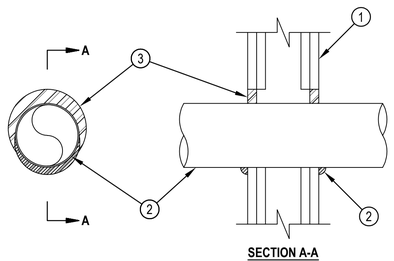
2. Through Penetrant —One metallic tubing or conduit installed concentrically or eccentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic tube or conduit may be used:

   A. Conduit —Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

3. Fill Void or Cavity Material* —Putty —Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, tapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening.

   HILTI INC —CP618 Putty Stick

*Bearing the UL Classification Mark

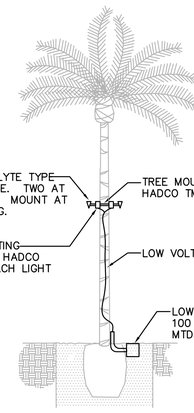


SECTION A-A

System No. W-L-1175
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - Less Than 1 CFM/sq ft

COND. PENETRATION THRU 1-HR FIRE RATED WALL

NOT TO SCALE | 5

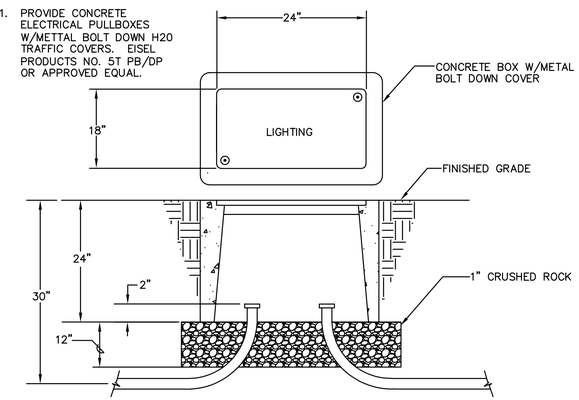


FIXTURE TYPE "SB" MOUNTING DETAIL

NOT TO SCALE | 2

NOTES:

1. PROVIDE CONCRETE ELECTRICAL PULLBOXES W/METTAL BOLT DOWN H20 TRAFFIC COVERS. EISEL PRODUCTS NO. 5T PB/DP OR APPROVED EQUAL.



PULL BOX DETAIL

NOT TO SCALE | 3

NOT USED

NOT TO SCALE | 10

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CHECK BY: PP/GM
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FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: ELECTRICAL DETAILS

SHEET: 122 OF 145

E3.1

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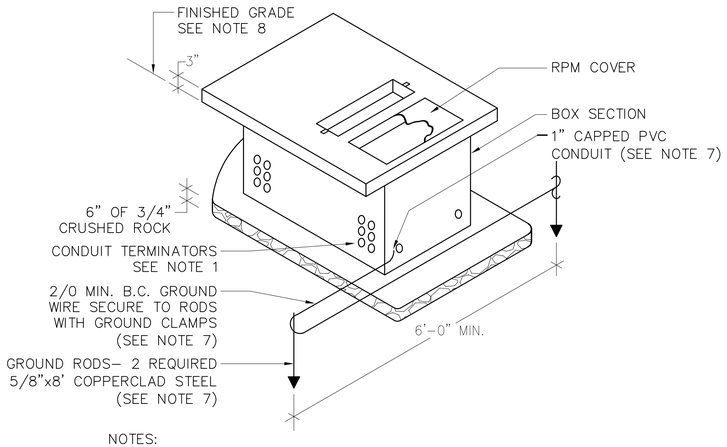
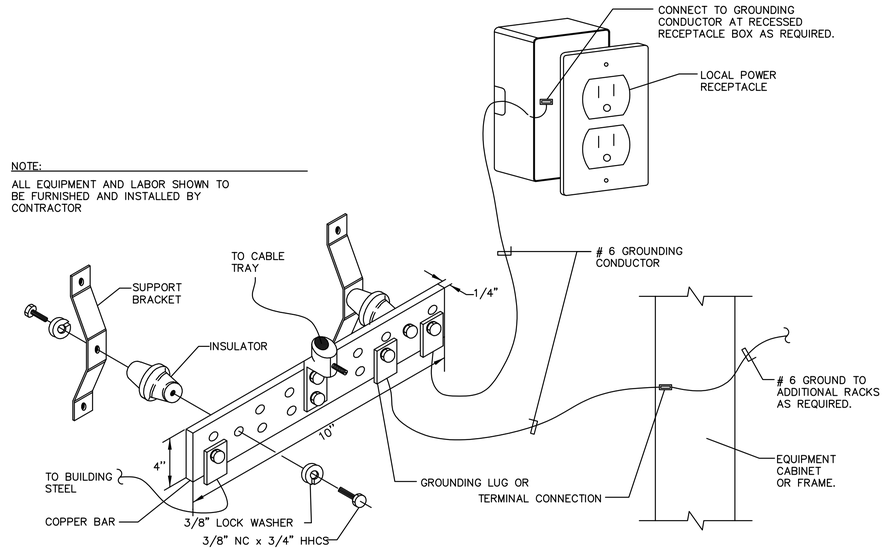


NOTES:

1. CONDUIT TERMINATORS TO BE LOCATED AS SHOWN ON UGS 535.2 TO 535.5. STANDARD CONDUIT ENTRANCE SHALL BE FLATWALL DESIGN. SLIGHT VARIATIONS BY MANUFACTURERS MAY BE ALLOWED WITH COMPANY APPROVAL.
2. WHEN CABLE TRENCH OPENINGS ARE REQUIRED IN A SLAB BOX, THEY CAN BE SPECIAL ORDERED FROM THE CONCRETE PRECASTER.
3. FOR SLAB BOX STRUCTURAL DESIGN CRITERIA, SEE UGS 525.2, 535.3 AND 535.5.
4. FOR LIST OF MATERIAL REQUIREMENTS AND NOTES, SEE UGS 535.6.
5. CONSULT MANUFACTURERS' INSTALLATION GUIDES FOR EXCAVATION DIMENSIONS.
6. AN EIGHT FOOT MINIMUM CLEARANCE IS REQUIRED DIRECTLY IN FRONT OF TRANSFORMER FOR OPERATION.
7. GROUND RODS, CLAMPS, AND WIRE WILL BE FURNISHED BY CONTRACTOR. SEE UGS 703 FOR APPROVED GROUNDING MATERIALS. GROUND MATERIAL TO BE A MINIMUM OF 2/0 BARE COPPER GROUND WIRE TO BE PLACED THROUGH CAPPED ONE–INCH PVC CONDUIT AT EITHER END OF SLAB BOX. A MINIMUM THREE–FOOT LENGTH OF GROUND WIRE SHALL BE PLACED IN SLAB BOX.
8. MASTIC SEALANT IS REQUIRED AT JOINTS.
9. TOP SURFACE OF SLAB BOX SHALL BE SET THREE INCHES ABOVE FINISHED GRADE.
10. SEE UGS 500 FOR APPROVED MANUFACTURERS.

UTILITY TRANSFORMER SLAB BOX DETAIL

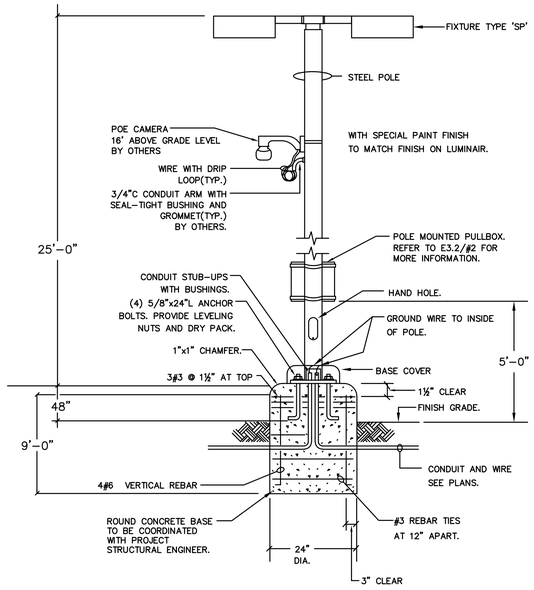
NOT TO SCALE | 7



PROVIDE "CPI # 10622–010" GROUND BAR ASSEMBLY OR EQUAL.

GROUND BUS BAR DETAIL

NOT TO SCALE | 5



NOTE:
CONTRACTOR IS RESPONSIBLE TO SUBMIT POLE BASE DESIGN CALCULATIONS SIGNED AND STAMP BY A CALIFORNIA STRUCTURAL ENGINEER.

25 FOOT POLE MTG DETAIL

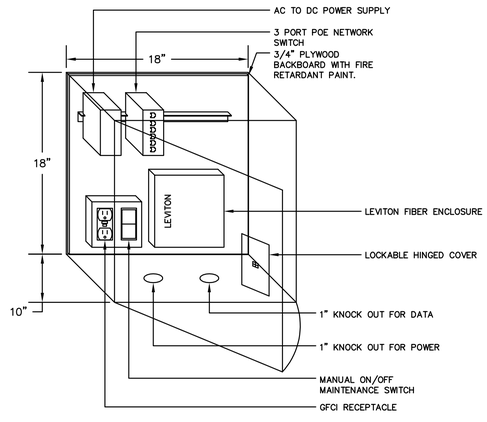
NOT TO SCALE | 1

NOT USED

NOT TO SCALE | 8

NOT USED

NOT TO SCALE | 6



NOTE:
1. WEATHERPROOF PULLBOX SUPPORTED FROM LIGHTING POLE WITH UNISTRUT CHANNEL.
2. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL INFRASTRUCTURE EQUIPMENT REQUIRED TO OPERATE THE CAMERAS

PULLBOX WITH MEDIA CONVERTER AND LOCAL SWITCH

NOT TO SCALE | 2

E3.2

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
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APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
_____ PRITAL PATEL, P.E. _____ DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER – PRITAL U. PATEL – E17249 EXP. 06-30-2024 ELECTRICAL – STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
COMMUNICATION DETAILS

SHEET: 123 OF 145

BID DELIVERABLE

GENERAL NOTES

1. ALL INDICATED DIMENSIONS ARE APPROXIMATE AND ARE GIVEN FOR ESTIMATE PURPOSES ONLY. BEFORE PROCEEDING WITH THE WORK, THIS CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS, SIZES, AND CLEARANCES, AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING OF ALL EQUIPMENT AND MATERIALS HEREIN REQUIRED TO OTHER PARTS OF THE WORK AND TO THE WORK OF OTHER TRADES.
2. CONTRACTOR SHALL COMPLY WITH ALL CONTRACT DOCUMENTS IN LAYING OUT HIS WORK AND EQUIPMENT OR SPECIALTIES REQUIRING READING, ADJUSTMENT, INSPECTION, REPAIRS, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BLDG.
3. DUCT CONSTRUCTION, INSTALLATION & INSULATION SHALL COMPLY WITH THE 2019 EDITION OF THE CALIFORNIA MECHANICAL CODE, CHAPTER-6, AND SMACNA 2005 THIRD EDITION.
4. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH "SMACNA" GUIDELINES AS FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING SYSTEMS. WHERE BRACING DETAILS ARE NOT SHOWN ON DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE TO THE APPROVAL OF THE ARCHITECT, THE STRUCTURAL ENGINEER AND OWNER. A COPY OF THE GUIDELINES PUBLISHED BY "SMACNA" AND APPROVED BY OWNER SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIME.
5. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
6. FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH PER SECTION 603.4.1 CMC.
7. THE SIZES, WEIGHTS AND CAPACITIES OF ALL EQUIPMENT SCHEDULES ON THE DRAWING HAVE BEEN CAREFULLY COMPUTED. SHOULD EQUAL ITEMS BY DIFFERENT MANUFACTURERS BE SUBMITTED FOR APPROVAL, ALL SUCH SUBMITTALS SHALL INCLUDE 1/4 INCH SCALE SHOP DRAWINGS SHOWING METHOD OF INSTALLATION. PROVIDE LOAD RATINGS AND SEISMIC CALCULATIONS AS APPROVED BY A REGISTERED STRUCTURAL ENGINEER WITH EACH SUBMITTAL.
8. REQUIRED ROUTINE MAINTENANCE ACTION SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL, WHICH MAY BE LIMITED TO IDENTIFYING BY TITLE AND/OR PUBLICATION NUMBER THE OPERATION AND MAINTENANCE MANUAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT. ONE COPY OF THIS INFORMATION SHALL BE FURNISHED BY THE CONTRACTOR TO THE OWNER.
9. HVAC SYSTEM SHALL BE ISOLATED AND PROTECTED IN PLACE DURING CONSTRUCTION.
10. ROOF LADDER ACCESS SHALL COMPLY WITH SECTION 304 CMC.
11. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCTS OF MOVING SYSTEMS EXCEEDING 2000 CFM PER SECTION 608.0 CMC.
12. ALL ENVELOPE AND MECHANICAL CERTIFICATE OF ACCEPTANCE FORMS AND ALL RELATED ACCEPTANCE DOCUMENTS SHALL BE SUBMITTED TO THE FIELD INSPECTOR DURING CONSTRUCTION. CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL THESE FORMS ARE REVIEWED AND APPROVED.
13. INSULATION MATERIAL SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8 ENERGY EFFICIENCY STANDARDS (E.E.S.).
14. DOORS AND WINDOWS SHALL MEET THE MINIMUM INFILTRATION REQUIREMENTS PER SECTIONS 110.6 AND 110.7 E.E.S.
15. ALL PIPING AND DUCTWORK SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF SECTIONS 120.3, 120.4, AND 120.7 TITLE 24 ENERGY STANDARDS AND CHAPTER 6 OF CMC.
16. ALL HVAC SYSTEMS SHALL MEET THE CONTROL REQUIREMENTS PER SECTION 110.2 AND 120.2 E.E.S.
17. ALL HVAC SYSTEMS AND APPLIANCES SHALL MEET THE REQUIREMENTS PER SECTION 110.1-110.3, 110.5, 120.1-120.4 TITLE 24 ENERGY STANDARDS.
18. CONDENSATE AND REFRIGERANT LINE ROUTING MAY NOT PASS ABOVE ELECTRICAL EQUIPMENT OR TELECOM/SECURITY EQUIPMENT.
19. ALL HVAC DUCTWORK AND PIPING SHALL BE INSTALLED AS CLOSE TO THE BOTTOM OF STRUCTURAL ELEMENT ABOVE, ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURE IF REQUIRED WHILE MAINTAINING A STRAIGHT RUN.
20. ANY MECHANICAL PENETRATIONS THROUGH STRUCTURAL ELEMENTS SHALL BE COORDINATED WITH THE STRUCTURAL DESIGN AND FIRE CODE REQUIREMENTS.

2019 ENERGY EFFICIENCY STANDARDS: MANDATORY MEASURES - HVAC

EQUIPMENT AND SYSTEMS EFFICIENCY

1. ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE ENERGY COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.
2. THE FOLLOWNG SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS: ALL AIR CONDITIONERS, HEAT PUMPS AND CONDENSING UNITS > 135,000 BTU/HR; ALL WATER CHILLERS; ALL GAS-FIRED BOILERS > 300,000 BTU/HR; ALL OIL-FIRED BOILERS > 225,000 BTU/HR; AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR FURNACES/AIR CONDITIONING UNITS > 225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
3. PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60F AND 105F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS 123.
4. AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE. DUCTWORK SHALL BE INSULATED AND INSULATION SHALL BE PROTECTED IN ACCORDANCE WITH STANDARDS 124.

CONTROLS

1. THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN F.
2. THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

VENTILATION

1. CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED IN THESE PLANS.
2. GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
3. ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
4. IF APPLICABLE, DEMAND CONTROL VENTILATION DEVICES APPROVED BY THE ENERGY COMMISSION SHALL BE PROVIDED FOR HVAC SYSTEMS SERVING ASSEMBLY AREAS, CONCENTRATED USE (WITHOUT FIXED SEATS)" OR "AUCTION ROOMS", AS IDENTIFIED IN CHAPTER 10 OF THE UBC, IF SUCH AREAS ARE SERVED BY SYSTEMS WITH DESIGN OUTDOOR CAPACITIES EQUAL TO OR EXCEEDING 3,000 CFM. THE DEVICE SHALL INCLUDE A SENSOR LOCATED IN THE SPACE.
5. IF APPLICABLE, DEMAND CONTROL VENTILATION DEVICES SHALL ALLOW THE RATE OF OUTDOOR AIR TO BE REDUCED TO 0.15 CFM PER SQUARE FOOT OF CONDITIONED AREA, IF THE DEMAND CONTROL VENTILATION DEVICE INDICATES THAT THE SPACE CONDITIONS ARE ACCEPTABLE. IF THE DEVICE IS A CARBON-DIOXIDE SENSOR, IT SHALL LIMIT THE CARBON DIOXIDE LEVEL TO NO MORE THAN 800 PPM WHILE THE SPACE IS OCCUPIED.
6. DESIGNATED OUTDOOR SMOKING AREA SHALL BE AT LEAST 25 FEET FROM AN OUTDOOR AIR INTAKE OR OPERABLE WINDOWS.
7. THE BUILDING SHALL MEET OR EXCEED THE PROVISIONS FOR MECHANICAL VENTILATION OF CHAPTER 4 OF THE CALIFORNIA MECHANICAL CODE.
8. IF APPLICABLE, BUILDING THAT USE DEMAND CONTROL VENTILATION SHALL HAVE CO2 SENSORS AND VENTILATION CONTROLS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2019 EDITION OF THE CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6, SECTION 121(C).
9. THE HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN CFC OR HALONS.

COMPLETION AND BALANCING

ALL VENTILATION SYSTEMS SHALL BE DOCUMENTED PER CALIFORNIA SAFETY CODE (TITLE 8, SECTION 5142 (b) TO BE PROVIDING THE MINIMUM REQUIRED VENTILATION RATE AS DETERMINED USING ONE OF THE FOLLOWING PROCEDURES:

1. AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989). REFER TO SPECIFICATION SECTION 23 05 93.
2. OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.
3. OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE.
4. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL INSPECTION. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
5. AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION BY COMMISSIONING AGENT.
6. ALL DUCT AND OTHER RELATED DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR SHEETMETAL UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT.
7. UNLESS SPECIFIED OTHERWISE, AN AIR FILTER WITH A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 13 OR HIGHER SHALL BE INSTALLED IN THE MECHANICAL SYSTEM FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY.
8. PROCEDURE APPROVED BY THE ENERGY COMMISSION.

CALIFORNIA GREEN BUILDINGS STANDARDS CODE 2019

1. IN NEW MECHANICAL SYSTEMS, PROVIDE AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY THAT PROVIDES AT LEAST MERV 13.
2. AT THE TIME OF ROUGH INSTALLATION OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE DEPARTMENT TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM.
3. PROVIDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE DEPARTMENT.
4. PROVIDE THE BUILDING OWNER OR REPRESENTATIVE WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS AND COPIES OF GUARANTIES/WARRANTIES FOR EACH NEW SYSTEM. O&M INSTRUCTIONS SHALL BE CONSISTENT WITH OSHA REQUIREMENTS IN CCR, TITLE 8, SECTION 5142 AND OTHER RELATED REGULATIONS.
5. A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED AND PROVIDED TO THE FIELD INSPECTOR PRIOR TO FINAL APPROVAL. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
6. PROVIDE CO2 SENSORS FOR DEMAND CONTROL VENTILATION. SEE PROJECT SPECIFICATION SECTION 23 09 00 "INSTRUMENTATION AND CONTROLS FOR HVAC" AS WELL AS CONTROLS AND WIRING DIAGRAMS ON PLANS FOR DETAILED REQUIREMENTS RELATED TO CARBON DIOXIDE (CO2) MONITORING AND DEMAND CONTROL VENTILATION."
7. IN ADDITION TO TESTING AND ADJUSTING, BEFORE A NEW SPACE CONDITIONING SYSTEM SERVING A BUILDING OR SPACE IS OPERATED FOR NORMAL USE, THE HVAC SYSTEM AND COMPONENTS WILL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS.
   - TABB'S CONSTRUCTION SPECIFICATIONS INSTITUTE MASTER FORMAT (23 05 93 AND 15990)
   - NEBB'S STANDARDS FOR TESTING, ADJUSTMENT, AND BALANCING OF ENVIRONMENTAL SYSTEMS (7TH EDITION)
   - AABC'S NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE (6TH EDITION)
   - ASHRAE'S STANDARD 111-2008
8. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE EACH SYSTEM AS DETERMINED BY THE BUILDING OFFICIAL.
9. DEVELOP A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING NEW HVAC SYSTEMS AND CONTROLS.
10. PROVIDE TESTING AND ADJUSTING OF HVAC SYSTEMS.SEE PROJECT SPECIFICATION SECTION 23 05 93 "TESTING, ADJUSTING AND BALANCING FOR HVAC" AND SECTION 23 08 00 "COMMISSIONING OF HVAC" FOR DETAILED REQUIREMENTS RELATING TO TESTING, ADJUSTING AND BALANCING OF HVAC SYSTEMS, AS WELL AS RELATED TEST AND BALANCE PROCEDURES, REPORTING, EQUIPMENT OPERATION AND MAINTENANCE MANUALS, INSPECTIONS AND REPORTS."
11. AN OPERATION AND SYSTEMS MANUAL, SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION.
12. PROVIDE TEMPORARY VENTILATION DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 121 CALIFORNIA ENERGY CODE AND AS PER POLLUTION CONTROL SECTION OF 2019 CGBSC. SECTION: 5.504.1.
13. PROVIDE COVERS AND PROTECTION ON ANY DUCT OPENINGS AND MECHANICAL EQUIPMENTS AS PER 2019 CGBSC. SECTION: 5.504.3.
14. PROVIDE AIR FILTRATION MEDIA MINIMUM OF MERV – 13 FOR OUTSIDE AND RETURN AIR PRIOR TO OCCUPANCY FOR REGULARLY OCCUPIED AREAS OF THE BUILDING AS PER 2019 CGBSC. SECTION 5.504.5.3 .
15. INDOOR MOISTURE CONTROL SHALL BE IN COMPLY WITH TITLE 24 , PART2 SECTION 1203 AS PER 2019 CGBSC. SECTION 5.505.1.

MECHANICAL LEGEND

SYMBOL	ABBREV.	DESCRIPTION
		SQUARE OR RECTANGULAR DUCT
	AC.LN.	DUCT WITH ACOUSTIC LINER (IN ADDIT. TO WHERE SPECIFIED)
		ROUND DUCT
		FLEXIBLE ROUND DUCT
UP (OR DN)		DUCT SLOPE DIRECTION
		DUCT UP OR DOWN
		DUCT TRANSITION
		RADIUS ELBOW (FIG. 2-2*)
		RECTANG/SQUARE DUCT THROAT ELBOW WITH VANES (FIG 2-2*)
OR		SQUARE 45° ENTRY BRANCH CONNECTION (FIG.2-8*)
OR		RECTANGULAR DUCT PARALLEL FLOW BRANCH (FIG.2-7*)
TH OR TH		THROAT SIZE ON RECTANGULAR DUCT SPLIT
OR		DUCT TAKE-OFF FROM BOTTOM
OR		DUCT TAKE-OFF FROM TOP
	MVD	MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
	MD	MOTORIZED DAMPER
	FD-SD	FIRE DAMPER & SMOKE DAMPER
	CR	CEILING REGISTER (RETURN OR EXHAUST)
	CD	CEILING DIFFUSER (SUPPLY)
	CR	CEILING REGISTER (OUTSIDE AIR)
		SUPPLY AIR DUCT SECTION
		RETURN OR EXHAUST AIR DUCT SECTION
		OUTSIDE AIR DUCT SECTION
		SUPPLY AIR DUCT UP THRU FLOOR OR ROOF
		RETURN OR EXHAUST AIR DUCT UP THRU FLOOR OR ROOF
		OUTSIDE AIR DUCT UP THRU FLOOR OR ROOF
2	LVR.	DOOR LOUVER AND SQUARE FOOT AREA
		UNDERCUT DOOR 3/4"
DD		SMOKE DUCT DETECTOR (BY FIRE ALARM CONTRACTOR)
	S.P.	STATIC PRESSURE
ø	DIA.	ROUND (DIAMETER)
	CFM	CUBIC FEET OF AIR PER MINUTE
	E. OR EXH.	EXHAUST
	W/CLG. F.D.	WITH CEILING FIRE DAMPER
	O.S.A.	OUTSIDE AIR
	R. OR RET.	RETURN
	S. OR SUPP.	SUPPLY
	TH.	THROAT
	MCA	MINIMUM CIRCUIT AMPS
	MFA	MAXIMUM FUSE AMPS
	FLA	FULL LOAD AMPERAGE
	BAS	BUILDING AUTOMATION SYSTEM
	A.D.	ACCESS DOOR
	IBJS	IN BETWEEN JOIST SPACE
	UTR / UTF	UP THROUGH ROOF / UP THROUGH FLOOR
	DTR / DTF	DOWN THROUGH ROOF / DOWN THROUGH FLOOR
XX / X		EQUIPMENT TAG
S		REMOTE SENSOR
CO_2		CARBON DIOXIDE SENSOR
SW		ON/OFF SWITCH
	TEMP.	TEMPERATURE
	TYP.	TYPICAL
	FC	FAN COIL
	CU	CONDENSING UNIT
	SF	SUPPLY FAN

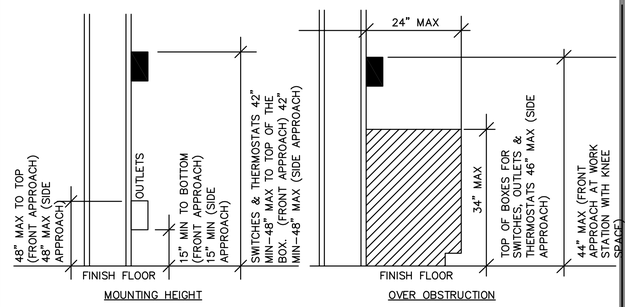
*REFERS TO "SMACNA" HVAC DUCT CONSTRUCTION STANDARDS

SHEET INDEX

APPLICABLE CODES & STANDARDS

1. THE APPLICABLE CODES FOR THE PROJECT INCLUDE:

a) BUILDING CODE – 2019 CALIFORNIA BUILDING CODE (PART 2 OF CCR TITLE 24)
c) MECHANICAL CODE – 2019 CALIFORNIA MECHANICAL CODE (PART 4 OF CCR TITLE 24)
b) ELECTRICAL CODE – 2019 CALIFORNIA ELECTRICAL CODE (PART 3 OF CCR TITLE 24)
d) PLUMBING CODE – 2019 CALIFORNIA PLUMBING CODE (PART 5 OF CCR TITLE 24)
e) ENERGY CODE – 2019 CALIFORNIA ENERGY CODE (PART 6 OF CCR TITLE 24)
f) FIRE CODE – 2019 CALIFORNIA FIRE CODE (PART 9 OF CCR TITLE 24)
g) 2019 CALIFORNIA BUILDING STANDARDS CODE (CAL GREEN), CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 11.
h) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS
i) SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) DESIGN GUIDES



THERMOSTAT/SENSOR MOUNTING HEIGHT DETAIL — NOT TO SCALE

M0.1

NO.	BY:	REVISION COMMENTS
	PBS	BID SET 02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: PRITAL PATEL, M33827, EXP. 06-30-2025, MECHANICAL, STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: MECHANICAL GENERAL NOTES, LEGEND, SHEET INDEX AND SCOPE OF WORK

SHEET: 124 OF 145

BID DELIVERABLE

Plotted - 2/1/2024 4:06:50 PM :: Saved - 3/15/2022 4:02:55 PM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\M0.1.dwg :: kkiliona

A. GENERAL INFORMATION

1.	Project Location (city)	Calexico	**8.**	Standards Version	Compliance2019
2.	CA Zip Code	92231	**9.**	Compliance Software (version)	EnergyPro 8.0
3.	Climate Zone	15	**10.**	Weather File	IMPERIAL_747185_CZ2010.epw
4.	Total Conditioned Floor Area in Scope	927 ft^2	**11.**	Building Orientation (deg)	(N) 0 deg
5.	Total Unconditioned Floor Area	0 ft^2	**12.**	Permitted Scope of Work	NewEnvelopeAndMechanical
6.	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7.	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope	☒	Performance	Covered Process: Commercial Kitchens	☐	Performance	*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐	Not Included		☒	Not Included		
Mechanical	☒	Performance	Covered Process: Computer Rooms	☐	Performance	Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI -E is required*
	☐	Not Included		☒	Not Included	Outdoor Lighting §140.7	*NRCC-LTO-E is required*
Domestic Hot Water	☐	Performance	Covered Process: Laboratory Exhaust	☐	Performance	Sign Lighting §140.8	*NRCC -LTS-E is required*
	☒	Not Included		☒	Not Included	Mandatory Measures	
Lighting (Indoor Conditioned)	☐	Performance				*Electrical power systems, commissioning and solar ready requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒	Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E is required*
Solar Thermal Water Heating	☐	Performance				Commissioning S120.8	*NRCC-CXR-E is required*
	☒	Not Included				Solar Ready S110.10	*NRCC-SRA-E is required*

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ^{2}-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	19.90	23.98	-4.08
Space Cooling	396.77	475.71	-78.94
Indoor Fans	321.35	139.11	182.24
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	27.50	27.50	--
Indoor Lighting	40.47	40.47	--
ENERGY STANDARDS COMPLIANCE TOTAL	**805.99**	**706.77**	**99.22 (12.3%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	106.78	106.78	0.0
Process	340.83	340.83	0.0
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**1,253.60**	**1,154.38**	**99.2 (7.9%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

D. EXCEPTIONAL CONDITIONS

This project includes partial performance compliance scope options. The building must show compliance with all other applicable compliance scope options (performance or prescriptively) before occupying.

The aged solar reflectance and aged thermal emittance must be listed in the Cool Roof Rating Council database of certified products. For projects where initial reflectance is used, the initial reflectance must be listed, and the aged reflectance is calculated by the software program and used in the compliance model.

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

F. ADDITIONAL REMARKS

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	653 ft^2	0 ft^2	00.0%
East-Facing[2]	341 ft^2	24 ft^2	07.0%
South-Facing[3]	644 ft^2	56 ft^2	08.7%
West-Facing[4]	256 ft^2	48 ft^2	18.8%
Total	**1,894 ft^2**	**128 ft^2**	**06.8%**
Roof	927 ft^2	0 ft^2	00.0%

Notes:
[1] *North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).*
[2] *East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).*
[3] *South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).*

G. ENVELOPE GENERAL INFORMATION

[4] *West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).*

H. FENESTRATION ASSEMBLY SUMMARY §110.6

1. Fenestration Assembly Name / Tag or I.D.	2. Fenestration Type / Product Type / Frame Type	3. Certification Method[1]	4. Assembly Method	5. Area ft^2	6. Overall U-factor	7. Overall SHGC	8. Overall VT	9. Status[2]
Residential Cooling	VerticalFenestration FixedWindow N/A	NFRC Rated	Manufactured	128	0.36	0.25	0.50	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

I. ENVELOPE DETAILS §120.7 & §140.3

I1. OPAQUE SURFACE ASSEMBLY SUMMARY

1 Surface Name	2 Surface Type	3 Description of Assembly Layers	4 Area (ft^2)	5 Framing Type	6 Cavity R-Value	7 Continuous R-Value	8 U-Factor / F-Factor / C-Factor	9 Status[1]
8 NW CMUSolid grouted Wa7	ExteriorWall	Concrete - Part Grouted and Empty - 125 lb/ft3 - 8 in.	1894	NA	0	NA	U-Factor: 0.379	N
copy of R-30 Roof Attic13	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Ceiling - 3/4 in. Metal framed roof, 16in. OC, 9.25in., R-30 Gypsum Board - 1/2 in.	927	Metal	30	NA	U-Factor: 0.071	N
Slab On Grade15	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	927	NA	0	NA	F-Factor: 0.730	N

[1] *Status: N - New, A – Altered, E – Existing*

I2. OVERHANG DETAILS

This Section Does Not Apply

I3. OPAQUE DOOR SUMMARY

1 Assembly Name	2 Overall U-factor	3 Status[1]
Metal Door21	0.700	N

J. CRRC ROOFING PRODUCT SUMMARY §140.3

1 Assembly Name	2 Roof Pitch	3 Aged Solar Reflectance	4 Thermal Emittance	5 SRI
copy of R-30 Roof Attic13	Low-Slope	0.63	0.75	Not Provided

K. HVAC SYSTEM SUMMARY §110.1 & §110.2

K1. Dry System Equipment (furnaces, air handling units, heat pumps, VRF, etc.)

Dry System Equipment [1] (Fan & Economizer info included below in Table N)

1	2	3	4	5	6	7	8	9	10
			Heating				Cooling		
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Source (Y/N)	Supp Heat Output (kBtuh)	Efficiency	Total Cooling Output (kBtu/h)	Efficiency	Status[2]
FC-1	SZHP (Split3Phase)	1	310	Yes	41	HSPF-10.40	35	SEER-20.60 / EER-9.00	N
Ticketing Booth1	Exhaust (NA)	1	0	No	0	NA	0	NA	N
FC-2	SZAC (CRAC)	1	0	No	0	NA	12	SEER-20.60 / EER-12.70	N
FC-3	SZHP (Split3Phase)	1	120	Yes	41	HSPF-10.40	12	SEER-20.60 / EER-12.70	N
Security Room28	Exhaust (NA)	1	0	No	0	NA	0	NA	N
FC-4	SZHP (Split3Phase)	1	310	Yes	41	HSPF-10.40	35	SEER-20.60 / EER-9.00	N
Breakroom33	Exhaust (NA)	1	0	No	0	NA	0	NA	N

[2] *Status: N - New, A – Altered, E – Existing*

K2. ECONOMIZER & FAN SYSTEMS SUMMARY §140.4[1]

1	2	3	4	5	6	7	8	9	10	11	12	13
			Supply Fan				Return Fan					
Name or Item Tag	System Type packaged, DOAS, etc.	Design OA CFM	CFM	BHP	Watts	Control	CFM	BHP	Watts	Control	Economizer Type (if present)	Status[2]
FC-1	SZHP	59	1080	0.250	218.0	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
FC-2	SZAC	11	760	0.050	43.6	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
FC-3	SZHP	11	760	0.050	43.6	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N
FC-4	SZHP	343	1080	0.166	144.8	ConstantVolume	NA	NA	NA	NA	NoEconomizer	N

[2] *Status: N - New, A – Altered, E – Existing*

K3. EXHAUST FAN SUMMARY

1 System ID	2 Zone Name	3 Qty	4 CFM	5 Motor BHP	6 Motor Watts	7 Total Static Pressure (in H20)
Ticketing Booth1	1-Ticketing Booth	1	70	0.100	87.2	5.89
Security Room28	3-Security Room	1	70	0.100	87.2	5.89
Breakroom33	4-Breakroom	1	140	0.100	87.2	2.95

K4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

K5. SYSTEM FEATURES §120.2

1 System Name	2 Optimum Start	3 Window Interlocks per §140.4(h)	4 Evaporative Cooling	5 Heat Recovery	6 Other Controls
FC-1	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
FC-2	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

M0.2

NO.	BY:	REVISION COMMENTS
	PBS	BID SET 02/01/2024

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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

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Glendora, CA 91740
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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL COMPLIANCE FORMS

SHEET: 125 OF 145

BID DELIVERABLE

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K5. SYSTEM FEATURES §120.2

1	2	3	4	5	6
System Name	Optimum Start	Window Interlocks per §140.4(n)	Evaporative Cooling	Heat Recovery	Other Controls
FC-3	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control
FC-4	No Optimum Start	NA	No Evaporative Cooler	No Heat Recovery	No DCV Controls, No DDC No Economizer No Supply Air Temp. Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

K6. MECHANICAL VENTILATION AND REHEAT §120.1

1	2	3	4	5	6	7	8	9
Zone Name	Mechanical Ventilation							DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# hotel rooms	# of people	# of bedrooms	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-Ticketing Booth	Office - Office space	0	1.98	0	59	70	395	NA
2-Electrical Room	Office - Office space	0	0.38	0	11	0	75	NA
3-Security Room	Office - Office space	0	0.36	0	11	70	72	NA
4-Breakroom	General - Break rooms	0	22.85	0	343	140	385	NA

K7. DISTRIBUTION SUMMARY §120.4/140.4(l)

1	2	3	4	5
Equipment Name	*Dry System Distribution*			Status[1]
	Duct Leakage Verification Y/N	Ducts		
		Insulation R-Value	Location	
FC-1	No	8	Unconditioned	N
FC-2	No	8	Unconditioned	N
FC-3	No	8	Unconditioned	N
FC-4	No	8	Unconditioned	N

[1] *Status: N - New, E – Existing*

Multifamily or Hotel/Motel Occupancy? (if "Yes", see DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY)	No
Does the Project include Zonal Systems?	Yes

K8. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY § 140.4

1	2	3	4	5	6	7	8	9	10	11	12
System ID	Zone Name	System Type	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
			Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Ticketing Booth-Trm	1-Ticketing Booth	Uncontrolled	NA	NA	1080	NA	0.00	NA	NA	NA	☐
2-Electrical Room-Trm	2-Electrical Room	Uncontrolled	NA	NA	760	NA	0.00	NA	NA	NA	☐
3-Security Room-Trm	3-Security Room	Uncontrolled	NA	NA	760	NA	0.00	NA	NA	NA	☐
4-Breakroom-Trm	4-Breakroom	Uncontrolled	NA	NA	1080	NA	0.00	NA	NA	NA	☐

K9. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY

L1. DHW EQUIPMENT SUMMARY

This Section Does Not Apply

L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS

This Section Does Not Apply

L3. SOLAR HOT WATER HEATING SUMMARY

This Section Does Not Apply

M. COVERED PROCESS SUMMARY §140.9

This Section Does Not Apply

N. INDOOR LIGHTING SUMMARY §140.6

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Envelope	☒	☐	NRCI-ENV-01-E - Must be submitted for all buildings	☐	☐
Mechanical	☒	☐	NRCI-MCH-01-E - Must be submitted for all buildings	☐	☐
Plumbing	☐	☒	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-02-E - Must be submitted for high-rise residential and hotel/ motel central hot water distribution systems to be recognized for compliance	☐	☐
	☐	☒	NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-PLB-21-E - Must be HERS verified for central systems in high-rise residential hotel/ motel application	☐	☐
	☐	☒	NRCI-PLB-22-E - Must be HERS verified for single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐
Indoor Lighting	☐	☒	NRCI-LTI-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance	☐	☐
	☐	☒	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance	☐	☐
Outdoor Lighting	☐	☒	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
	☐	☒	NRCI-LTO-02-E - Must be submitted for EMCS Lighting Control system	☐	☐
Sign Lighting	☐	☒	NRCI-LTS-01-E - Must be submitted for all buildings	☐	☐
Electrical	☐	☒	NRCI-ELC-01-E - Must be submitted for all buildings	☐	☐
Photovoltaic	☐	☒	NRCI-SPV-01-E - Must be submitted for all buildings	☐	☐

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

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Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Covered Process	☐	☒	NRCI-PRC-01-E - Must be submitted for all Refrigerated Warehouses	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. 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:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Envelope	☒	☐	NRCA-ENV-02-F - NRFC label verification for fenestration	☐	☐
	☐	☐	NRCA-ENV-03-F - Daylighting Design PAFs	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Mechanical	☒	☐	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap	☐	☐
	☒	☐	NRCA-MCH-03-A Constant Volume Single Zone HVAC	☐	☐
	☐	☒	NRCA-MCH-04(a)-H Air Distribution Duct Leakage - HERS Verification required	☐	☐
	☐	☐	NRCA-MCH-04(b)-A Air Distribution Duct Leakage - ATT only	☐	☐
	☐	☒	NRCA-MCH-05-A Air Economizer Controls	☐	☐
	☐	☒	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints	☐	☐
	☐	☒	NRCA-MCH-07-A Supply Fan Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-08-A Valve Leakage Test	☐	☐
	☐	☒	NRCA-MCH-09-A Supply Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-10-A Hydronic System Variable Flow Controls	☐	☐
	☐	☒	NRCA-MCH-11-A Automatic Demand Shed Controls	☐	☐
	☐	☒	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	☐	☐
	☐	☒	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	☐	☐
	☐	☒	NRCA-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance	☐	☐
	☐	☒	NRCA-MCH-15-A Thermal Energy Storage (TES) System Acceptance	☐	☐
	☐	☒	NRCA-MCH-16-A Supply Air Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-17-A Condenser Water Temperature Reset Controls	☐	☐
	☐	☒	NRCA-MCH-18 Energy Management Control Systems	☐	☐
	☐	☒	NRCA-MCH-19 Occupancy Sensor Controls	☐	☐

M0.3

NO.	BY:	REVISION COMMENTS
	PBS	BID SET 02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
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APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
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Glendora, CA 91740
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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2023 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL COMPLIANCE FORMS

SHEET: 126 OF 145

BID DELIVERABLE

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P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. 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:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Indoor Lighting	☐	☒	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls	☐	☐
	☐	☒	NRCA-LTI-03-A - Automatic Daylight Controls	☐	☐
	☐	☒	NRCA-LTI-04-A - Demand Responsive Lighting Controls	☐	☐
	☐	☒	NRCA-LTI-05-A - Institutional Tuning Power Adjustment Factor (PAF)	☐	☐
Outdoor Lighting	☐	☒	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
Sign Lighting	☐	☒	NRCA-LTO-02-A - Outdoor Lighting Controls	☐	☐
Covered Process	☐	☒	NRCA-PRC-01-F - Compressed Air Systems	☐	☐
	☐	☒	NRCA-PRC-02-F - Kitchen Exhaust	☐	☐
	☐	☒	NRCA-PRC-03-F - Garage Exhaust	☐	☐
	☐	☒	NRCA-PRC-04-F - Refrigerated Warehouse - Evaporator Fan Motor Controls	☐	☐
	☐	☒	NRCA-PRC-05-F - Refrigerated Warehouse - Evaporative Condenser Controls	☐	☐
	☐	☒	NRCA-PRC-06-F - Refrigerated Warehouse - Air Cooled Condenser Controls	☐	☐
	☐	☒	NRCA-PRC-07-F - Refrigerated Warehouse - Variable Speed Compressor	☐	☐
	☐	☒	NRCA-PRC-08-F - Electrical Resistance Underslab Heating System	☐	☐
	☐	☒	NRCA-PRC-15-F - Fume Hood Automatic Sash Closures System	☐	☐
	☐	☒	NRCA-PRC-16-A - Adiabatic Condensers	☐	☐

Q. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCV/

Building Component	YES	NO	Form/Title	Field Inspector Pass	Field Inspector Fail
Mechanical	☐	☒	NRCV-MCH-04-H Duct Leakage Test	☐	☐
	☐	☒	NRCV-MCH-24-H Enclosure Air Leakage	☐	☐
	☐	☒	NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation	☐	☐
	☐	☒	NRCV-MCH-32-H Local Mechanical Exhaust	☐	☐
Plumbing	☐	☒	NRCV-PLB-21-H - HERS verified central systems in high-rise residential, hotel/motel application	☐	☐
	☐	☒	NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application	☐	☐

R. UNMET LOAD HOURS

This Section Does Not Apply

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT § 10-103

Documentation Author Name: FRANKLIN NGUYEN	Signature:
Company: PBS Engineers	
Address: 2100 E ROUTE 66, SUITE 210	Signature Date: 2021-06-18
City/State/Zip: GLENDORA CA 91740	CEA/ HERS Certification Identification (if applicable):
Phone: (626)350-0350	

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 eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
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, worksheets, 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 builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	**Signature:**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Lighting Designer Name:	**Signature: NOT IN SCOPE**	
Company:		
Address:	Date Signed:	
City/State/Zip:	Declaration Statement Type:	
Phone:	Title:	License #:
Responsible Mechanical Designer Name: FRANKLIN NGUYEN	**Signature:** Franklin Nguyen	
Company: PBS ENGINEERS		
Address: 2100 E ROUTE 66	Date Signed: 2022-02-02	
City/State/Zip: GLENDORA CA 91740	Declaration Statement Type:	
Phone: (626)650-0350	Title:	License #:

NO.	BY:	REVISION COMMENTS
	PBS	BID SET 02/01/2024

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www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL V. PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

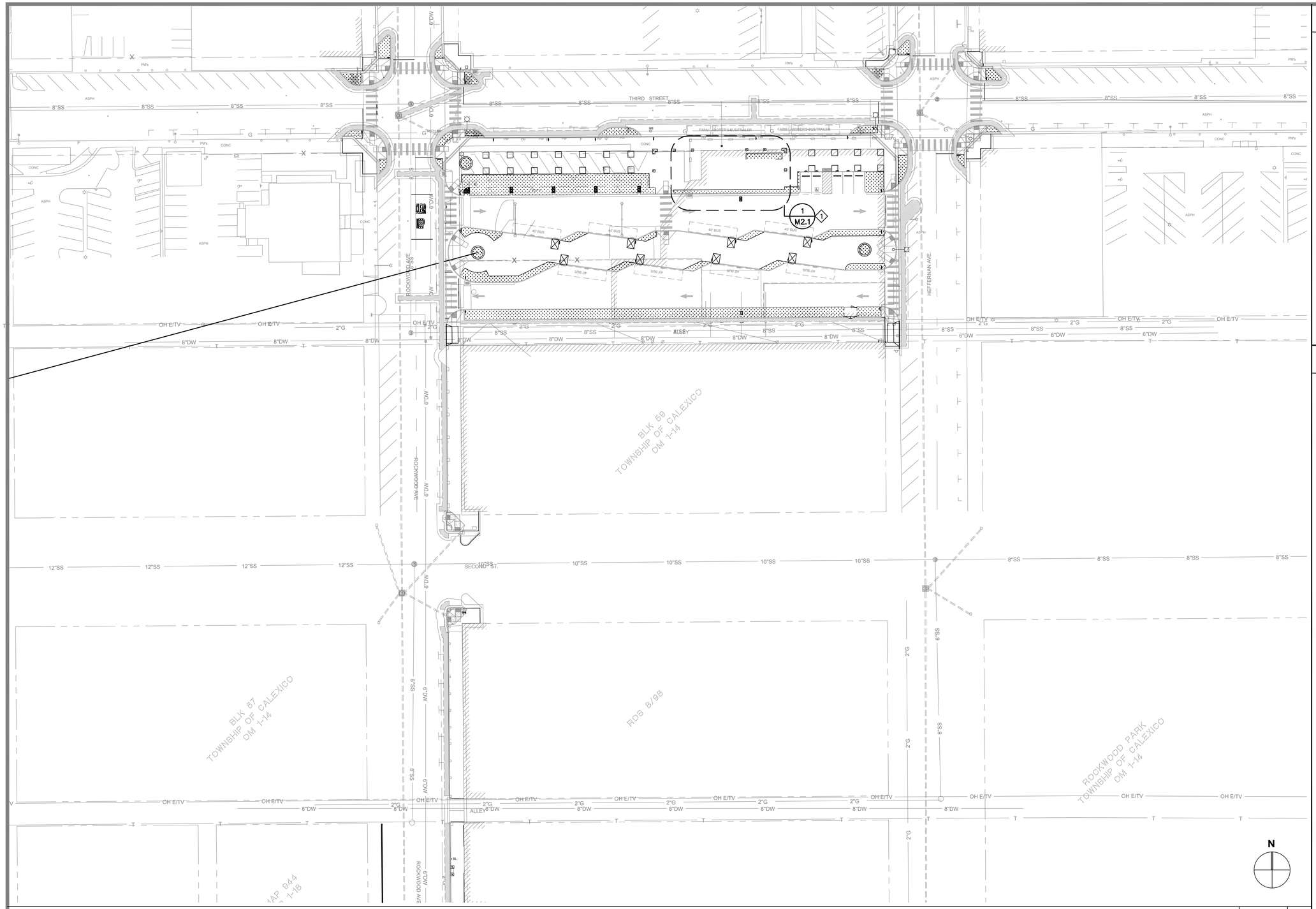
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL COMPLIANCE FORMS

SHEET: 127 OF 145

M0.4

BID DELIVERABLE



GENERAL NOTES

1. NOT APPLICABLE.

REMODEL KEY NOTES

1 REFER TO THE DETAIL 1/M2.1 FOR ENLARGED FLOOR PLAN.

MECHANICAL SITE PLAN

SCALE: 1" = 40'-0"

1

M1.1

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PRITAL PATEL, P.E. DATE

SEAL: PROFESSIONAL ENGINEER — M33827 — EXP. 06-30-2025 — MECHANICAL — STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: MECHANICAL SITE PLAN

SHEET: 128 OF 145

BID DELIVERABLE

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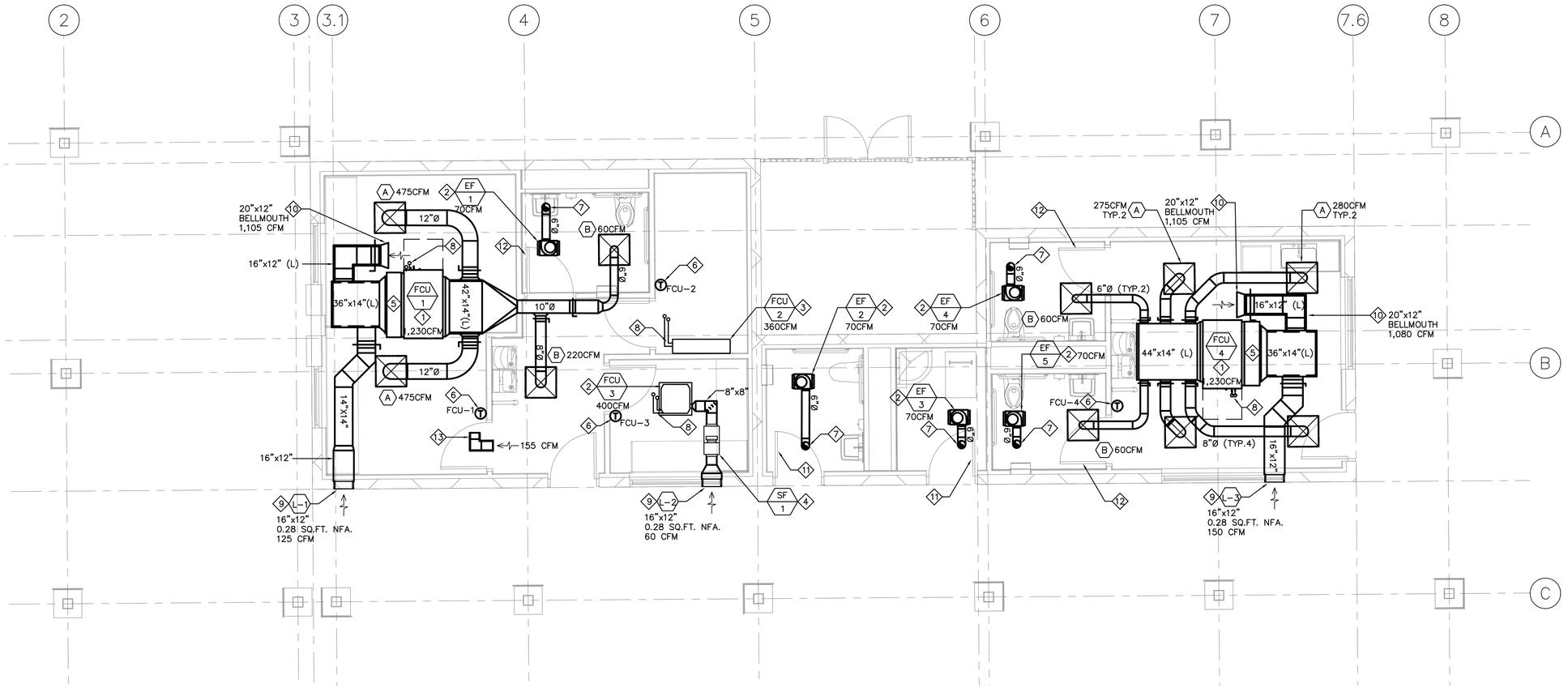

GENERAL NOTES

1. PROVIDE FINAL AIR BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
2. PROVIDE ALL EXPOSED DUCTS WITH 1" INTERNAL LINER. INCREASE DUCT SIZE AS NEEDED TO PROVIDE INSIDE CLEAR DIMENSIONS AS SHOWN ON PLANS WHILE PROVIDING REQUIRED LINING AND INSULATION.
3. PROVIDE MANUFACTURERS MIN. REQ'D CLEARANCES AROUND MECHANICAL EQUIPMENT AND CONTROL PANELS.
4. PROVIDE MANUAL VOLUME DAMPERS ON EACH SUPPLY AND RETURN DUCT BRANCH.
5. ANY SQUARE OR ROUND ELBOWS ON SUPPLY OR RETURN DUCT MAINS SHALL BE PROVIDED WITH SMOOTH TURNING VANES PER SMACNA STANDARDS.
6. PROVIDE ACCESS PANEL FOR EQUIPMENT SERVICE AND MAINTENANCE WHERE EQUIPMENTS ARE MOUNTED OVER INACCESSIBILE CEILINGS.
7. INSTALL THERMOSTAT, SENSORS, OR SWITCHES PER MOUNTING DETAIL AS SHOWN ON M0.1.
8. PROVIDE A FLEXIBLE CONNECTION FOR ANY DUCTWORK, PIPING, OR CONDUIT PASSING THROUGH A SEISMIC JOINT.
9. CONDENSATE AND REFRIGERANT LINE ROUTING SHALL NOT PASS ABOVE ANY ELECTRICAL, TELECOMMUNICATIONS, OR SECURITY EQUIPMENT.
10. PROVIDE REFRIGERANT LINES WITHIN ELECTRICAL, IT/AV, OR CONTROL ROOMS WITH 1" TALL DRAIN PANS UNDERNEATH.

REMODEL KEY NOTES

1. CEILING SUSPENDED FAN COIL UNIT. PROVIDE ASSOCIATED DUCTWORK, REFRIGERANT PIPING, ELECTRICAL CONNECTIONS, AND SUPPLEMENTAL PLUMBING. PROVIDE MIN. 5'–0" 1" LINED DUCTWORK FOR SUPPLY AND RETURN DUCT CONNECTED TO THE FAN COIL UNIT.
2. CEILING MOUNTED EXHAUST FAN W/ BACKDRAFT DAMPER PER 6/M4.1.
3. WALL MOUNTED FAN COIL UNIT PER 4/M4.1. PROVIDE ASSOCIATED REFRIGERANT PIPING, CONDENSATE PIPING, AND WIRING.
4. CEILING SUSPENDED VENTILATION FAN W/ BACKDRAFT DAMPER, FILTER RACK, & MERV–13 FILTERS. PROVIDE WITH 30" SERVICE CLEARANCE.
5. EXTERNAL FILTER BOX. PROVIDE ADEQUATE SERVICE CLEARANCE.
6. WALL MOUNTED THERMOSTAT. MOUNT 48" TOP OF THERMOSTAT AFF PER MOUNTING DETAIL.
7. 6" EXHAUST DUCT PENETRATION UP THRU ROOF. REFER TO DETAIL.
8. REFRIGERANT PIPING PENETRATION UP THRU ROOF. REFER TO DETAIL.
9. RAIN DRAINABLE WALL LOUVER. MOUNT BOTTOM OF LOUVER 8'–6" AFF.
10. 18"x14" BELLMOUTH RETURN DUCT. PROVIDE WITH WIRE MESH SCREEN OPENING.
11. DOOR LOUVER, MINIMUM 0.17 SQFT NFA. COORDINATE WITH ARCHITECT FOR COLOR AND DOOR TYPE.
12. 3/4" DOOR UNDERCUT. COORDINATE WITH ARCHITECT FOR DOOR TYPE.
13. 8"x8" (L) TRANSFER DUCT PER DETAIL 8/M4.2. PAINT MATTE BLACK. PROVIDE WITH 8"X8" EGGCRATE TYPE SIDEWALL RETURN GRILLE SUCH AS TITUS 50F OR APPROVED EQUAL. COORDINATE W/ ARCH FOR COLOR AND FINISH.

N

MECHANICAL FLOOR PLAN

SCALE: 1/4" = 1'–0" 1

M2.1

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	PBS	BID SET	02/01/2024

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SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

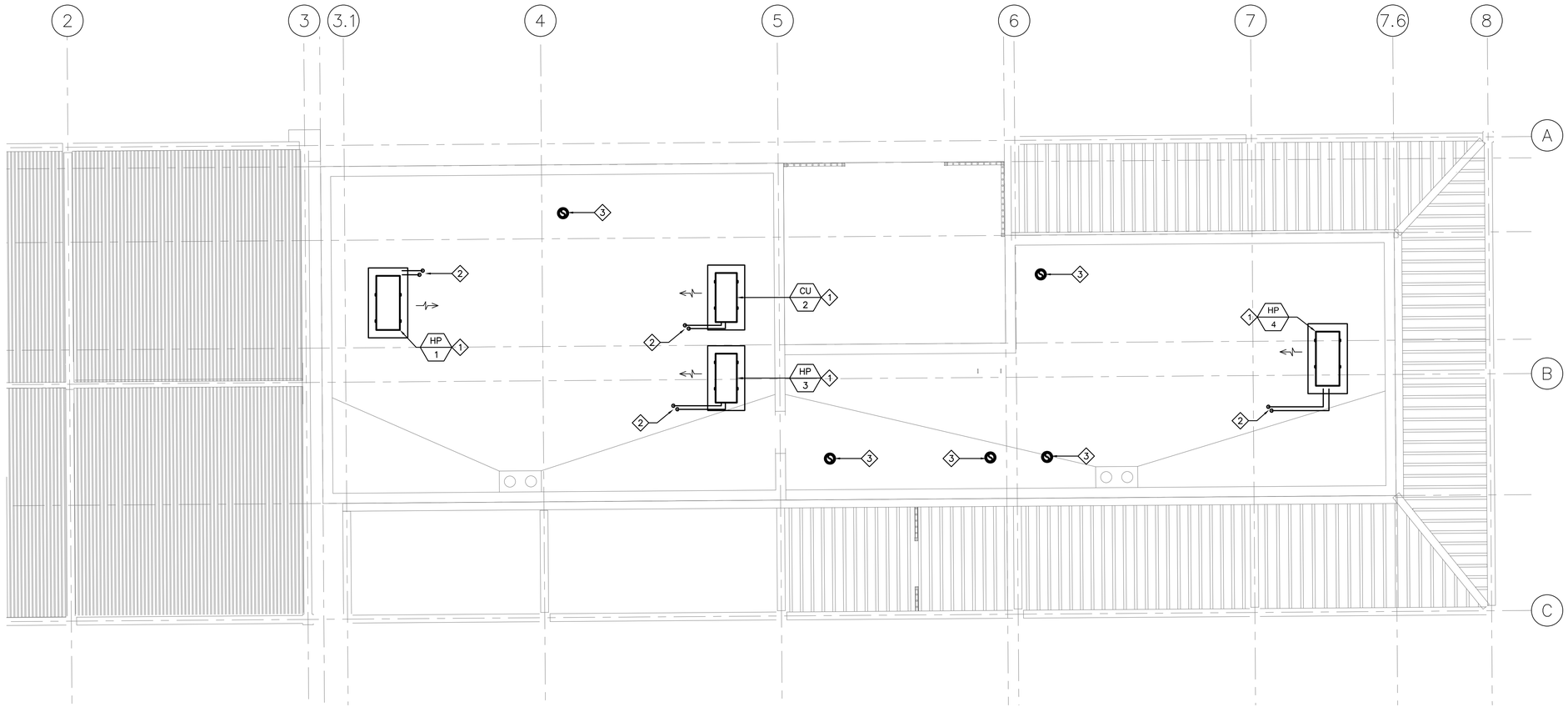
DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: MECHANICAL FLOOR PLAN

SHEET: 129 OF 145

BID DELIVERABLE



GENERAL NOTES

1. PROVIDE FINAL AIR BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
2. PROVIDE ALL EXPOSED DUCTS WITH 1" INTERNAL LINER. INCREASE DUCT SIZE AS NEEDED TO PROVIDE INSIDE CLEAR DIMENSIONS AS SHOWN ON PLANS WHILE PROVIDING REQUIRED LINING AND INSULATION.
3. PROVIDE MANUFACTURERS MIN. REQ'D CLEARANCES AROUND MECHANICAL EQUIPMENT AND CONTROL PANELS.
4. PROVIDE MANUAL VOLUME DAMPERS ON EACH SUPPLY AND RETURN DUCT BRANCH.
5. ANY SQUARE OR ROUND ELBOWS ON SUPPLY OR RETURN DUCT MAINS SHALL BE PROVIDED WITH SMOOTH TURNING VANES PER SMACNA STANDARDS.
6. PROVIDE ACCESS PANEL FOR EQUIPMENT SERVICE AND MAINTENANCE WHERE EQUIPMENTS ARE MOUNTED OVER INACCESSIBILE CEILINGS.
7. INSTALL THERMOSTAT, SENSORS, OR SWITCHES PER MOUNTING DETAIL AS SHOWN ON M0.1.
8. PROVIDE A FLEXIBLE CONNECTION FOR ANY DUCTWORK, PIPING, OR CONDUIT PASSING THROUGH A SEISMIC JOINT.
9. CONDENSATE AND REFRIGERANT LINE ROUTING SHALL NOT PASS ABOVE ANY ELECTRICAL, TELECOMMUNICATIONS, OR SECURITY EQUIPMENT.
10. PROVIDE REFRIGERANT LINES WITHIN ELECTRICAL, IT/AV, OR CONTROL ROOMS WITH 1" TALL DRAIN PANS UNDERNEATH.
11. PROVIDE PERMANENT MEANS OF ROOF ACCESS FOR SERVICE OF MECHANICAL EQUIPMENT LOCATED ON ROOF.

REMODEL KEY NOTES

1. ROOF MOUNTED CONDENSING UNIT. MOUNT ATOP 6" EQUIPMENT PAD. PROVIDE ALL ASSOCIATED REFRIGERANT PIPING, POWER CONNECTIONS, AND SUPPLEMENTAL PLUMBING. REFRIGERANT PIPE SIZES PER MECHANICAL SCHEDULE.
2. REFRIGERANT PIPE PENETRATION DOWN THRU ROOF PER DETAIL 7/M4.2.
3. 6"Ø EXHAUST DUCT PENETRATION THRU ROOF W/ EXHAUST CAP PER DETAIL 5/M4.2.

N

MECHANICAL FLOOR PLAN

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

M2.2

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SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 09-30-2024 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: MECHANICAL FLOOR PLAN

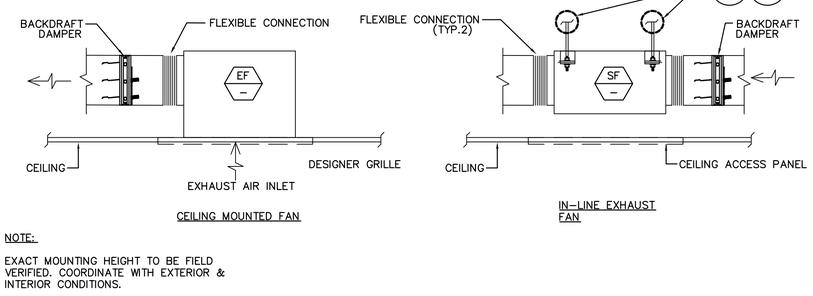
SHEET: 130 OF 145

BID DELIVERABLE

Plotted - 2/1/2024 4:07:47 PM :: Saved - 3/9/2022 1:10:32 PM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\M2.2.dwg :: kkiliona

NOT USED

NOT TO SCALE | 1



CEILING MOUNTED FAN

IN-LINE EXHAUST FAN

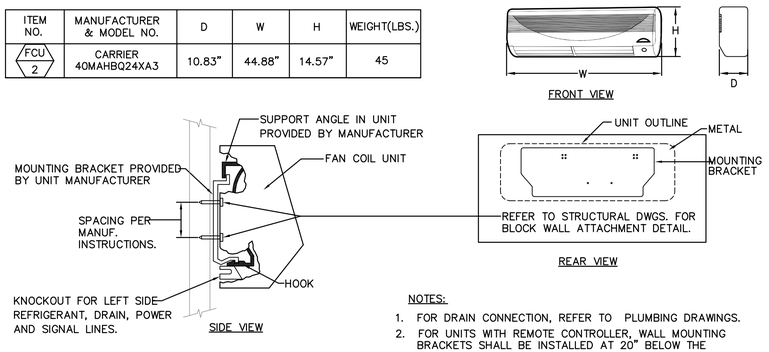
NOTE:

EXACT MOUNTING HEIGHT TO BE FIELD VERIFIED. COORDINATE WITH EXTERIOR & INTERIOR CONDITIONS.

IN-LINE AND CEILING MOUNTED EXHAUST FAN DETAIL

NOT TO SCALE | 6

ITEM NO.	MANUFACTURER & MODEL NO.	D	W	H	WEIGHT(LBS.)
FCU 2	CARRIER 40MAHBQ24XA3	10.83"	44.88"	14.57"	45

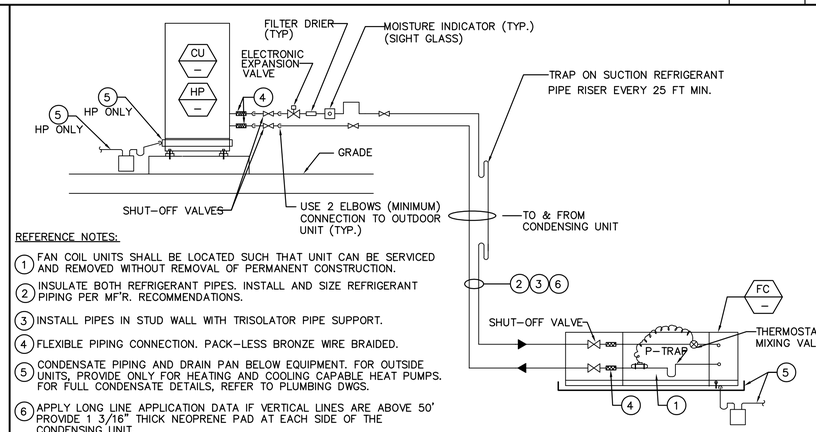


NOTES:

1. FOR DRAIN CONNECTION, REFER TO PLUMBING DRAWINGS.
2. FOR UNITS WITH REMOTE CONTROLLER, WALL MOUNTING BRACKETS SHALL BE INSTALLED AT 20" BELOW THE UNIT MINIMUM.
3. USE MANUFACTURER SUPPLIED MOUNTING BRACKET FOR INSTALLATION.

DX WALL MOUNTED FAN COIL UNIT MOUNTING DETAIL

NOT TO SCALE | 4



REFERENCE NOTES:

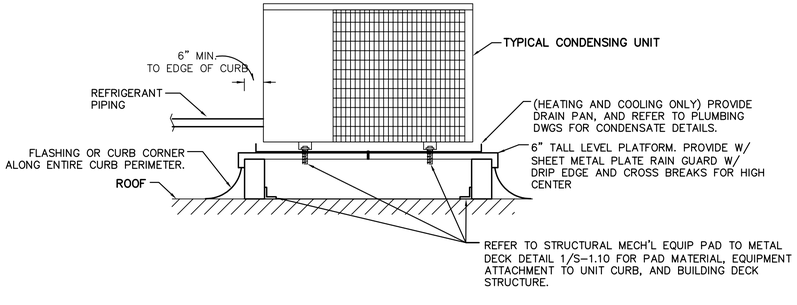
1. FAN COIL UNITS SHALL BE LOCATED SUCH THAT UNIT CAN BE SERVICED AND REMOVED WITHOUT REMOVAL OF PERMANENT CONSTRUCTION.
2. INSULATE BOTH REFRIGERANT PIPES. INSTALL AND SIZE REFRIGERANT PIPING PER MF'R. RECOMMENDATIONS.
3. INSTALL PIPES IN STUD WALL WITH TRISOLATOR PIPE SUPPORT.
4. FLEXIBLE PIPING CONNECTION. PACK-LESS BRONZE WIRE BRAIDED.
5. CONDENSATE PIPING AND DRAIN PAN BELOW EQUIPMENT. FOR OUTSIDE UNITS, PROVIDE ONLY FOR HEATING AND COOLING CAPABLE HEAT PUMPS. FOR FULL CONDENSATE DETAILS, REFER TO PLUMBING DWGS.
6. APPLY LONG LINE APPLICATION DATA IF VERTICAL LINES ARE ABOVE 50' PROVIDE 1 3/16" THICK NEOPRENE PAD AT EACH SIDE OF THE CONDENSING UNIT.

REFRIGERANT PIPING DIAGRAM (ONE TO ONE)

NOT TO SCALE | 2

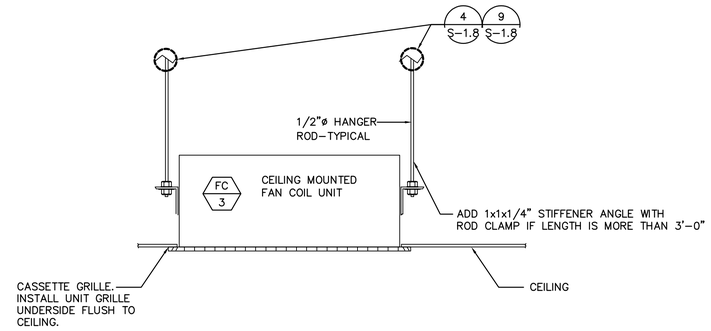
NOTES:

1. ROOF EQUIPMENT PLATFORM BY CONTRACTOR.
2. SHIM AS NECESSARY TO PROVIDE LEVEL PLATFORM.
3. EQUIPMENT PLATFORM SHALL BE APPROVED BY STRUCTURAL ENGINEER.



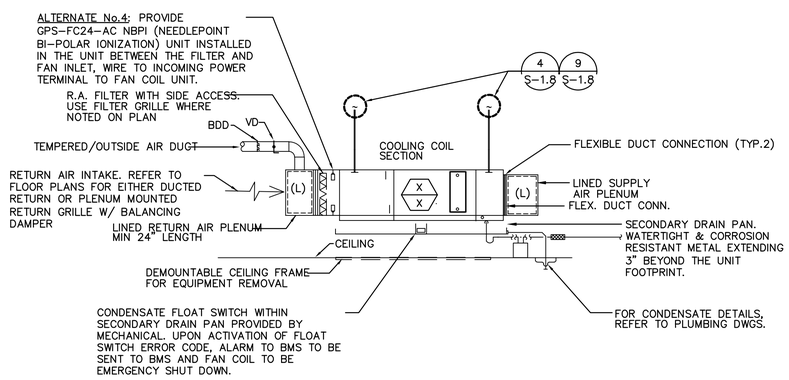
CONDENSING UNIT ROOF MOUNTING DETAIL

NOT TO SCALE | 7



CASSETTE TYPE FAN COIL UNIT MOUNTING DETAIL

NOT TO SCALE | 5



DUCT MOUNTED FAN COIL UNIT DETAIL

NOT TO SCALE | 3 | M4.1

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SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

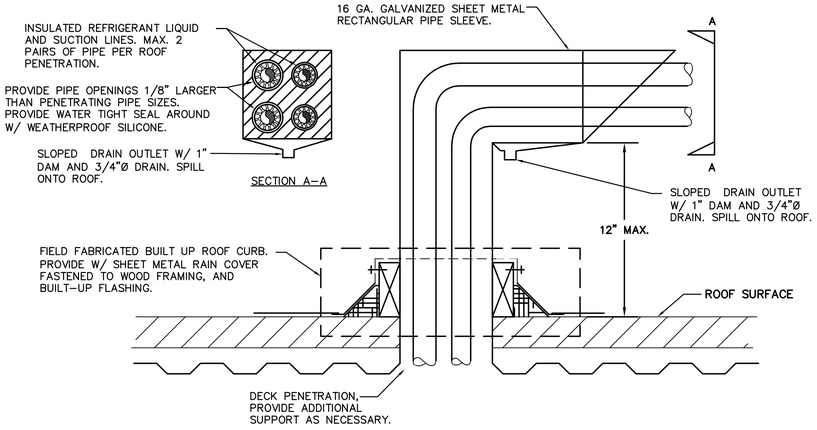
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: MECHANICAL DETAILS

SHEET: 131 OF 145

BID DELIVERABLE

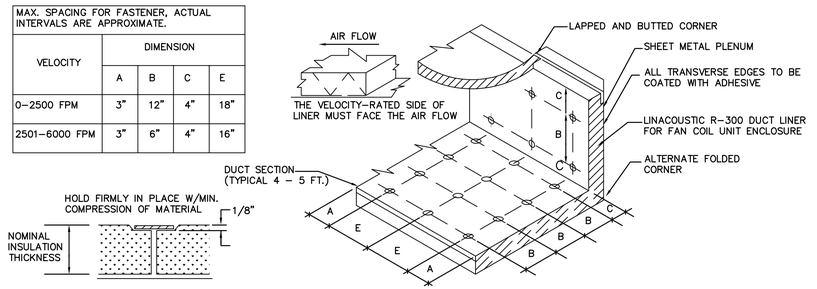
Plotted - 2/1/2024 4:07:52 PM :: Saved - 3/9/2022 1:11:55 PM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\M4.1.dwg :: kkiliona



REFRIGERANT PIPING ROOF PENETRATION DETAIL

NOT TO SCALE | 7

MAX. SPACING FOR FASTENER, ACTUAL INTERVALS ARE APPROXIMATE.				
VELOCITY	DIMENSION			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"



NOTES:

LINER ADHERED TO THE DUCT WITH FULL AREA COVERED OF ADHESIVE. ADHESIVE SHALL CONFORM TO ASTM C 916.

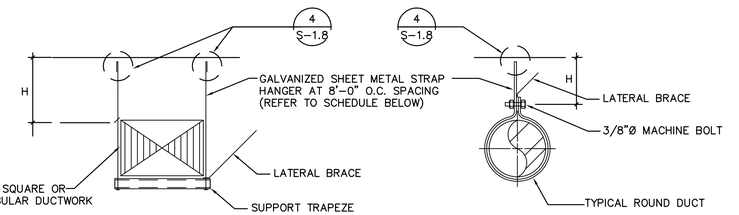
ALL EXPOSED LEADING EDGES AND TRANSFER JOINTS SHALL BE COATED WITH JOHNS MANVILLE SUPER SEAL DUCT BUTTER, JOHNS MANVILLE SUPER SEAL EDGE TREATMENT OR AN APPROVED ADHESIVE.

ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE NAIMA FIBROUS GLASS DUCT LINER INSTALLATION STANDARD.

THE PERMACOTE LINACOUSTIC R-300 FOR FAN COIL UNITS ENCLOSURE SHALL BE ADDITIONALLY SECURED WITH MECHANICAL FASTENERS SPACED PER THE SCHEDULE SHOWN. THE PIN LENGTH SHOULD SUCH AS TO HOLD THE MATERIAL FIRMLY IN PLACE WITH MIN. COMPRESSION OF THE MATERIAL.

DUCT LINER INSTALLATION DETAIL

NOT TO SCALE | 4

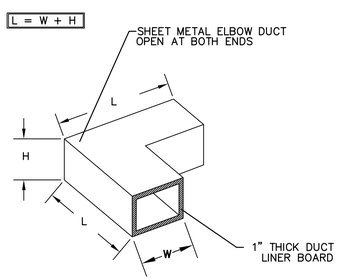


NOTES:

1. REFER TO STRUCTURAL DETAILS 7/S-1.8 AND 8/S-1.8 FOR ADDITIONAL DETAILING ON DUCT ANCHORAGE DETAIL. FOR ANY DISCREPANCIES BETWEEN MECHANICAL AND STRUCTURAL DETAIL, THE MORE STRINGENT DETAIL SHALL PREVAIL.
2. PROVIDE TRANSVERSE BRACING AT 20 FT. AND LONGITUDINAL BRACING AT 40 FT. (2005 SMACNA RESTRAINT MANUAL, 2ND EDITION)
3. NO LATERAL BRACING REQUIRED IF DUCT IS SUSPENDED (H VALUE) 12" OR LESS IN LENGTH.
4. SUPPORT & BRACING FOR OVAL DUCT SHALL CONFORM TO THOSE PERMITTED FOR RECTANGULAR DUCTS.
5. MAINTAIN 1:1 ANGLE FOR LATERAL BRACING.

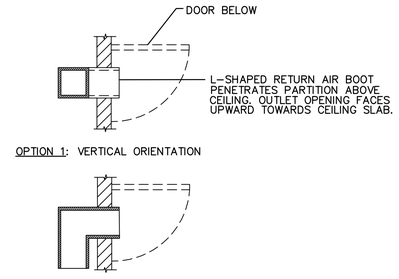
DUCT HANGER DETAIL FOR BUILDING

NOT TO SCALE | 1



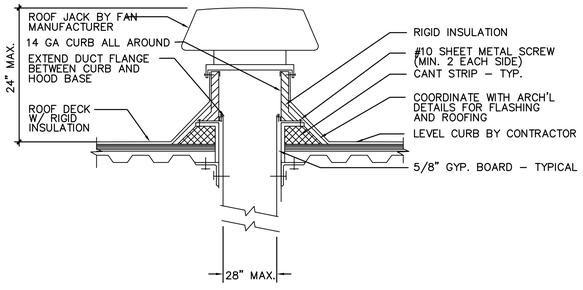
L-SHAPED ACOUSTICAL RETURN AIR BOOT

NOT TO SCALE | 8



NOT USED

NOT TO SCALE | 9

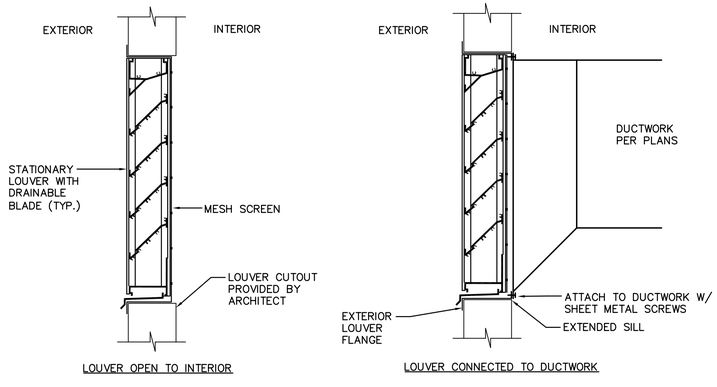


NOTES:

1. CONTRACTOR TO VERIFY ROOF SLOPE PRIOR TO ORDERING FOR GABLE ROOF.
2. INSTALL ROOF CAP MIN. 3'-0" FROM THE NEAREST VERTICAL SURFACE.
3. FOR ROOF CAP ATTACHMENT DETAIL TO ROOF DECK, REFER TO STRUCTURAL DETAIL FOR TYP. EXHAUST FAN & INTAKE HOOD ANCHORAGE DETAIL (6/1.7STL)

ROOF CAP DETAIL

NOT TO SCALE | 5

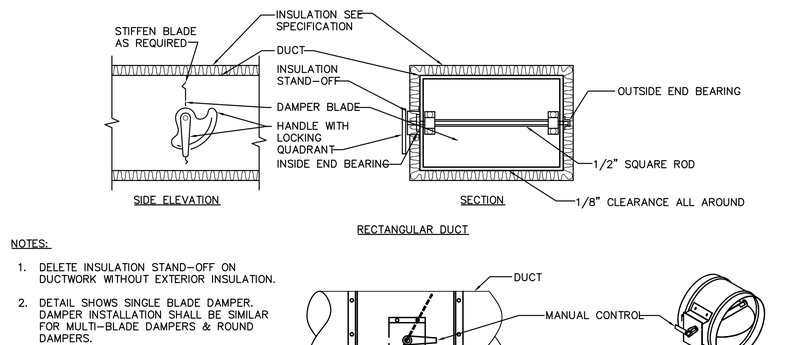


NOTE:

SEE MECHANICAL FLOOR PLANS REQUIRED FREE AREA & LOCATION. EXACT LOCATION AND HEIGHT TO BE FIELD VERIFIED. COORDINATE WITH EXTERIOR & INTERIOR CONDITIONS, AND COORDINATE WITH ARCHITECT FOR LOUVER COLOR AND FINISH.

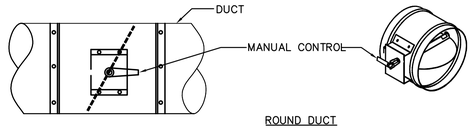
LOUVER INSTALLATION DETAIL

NOT TO SCALE | 6



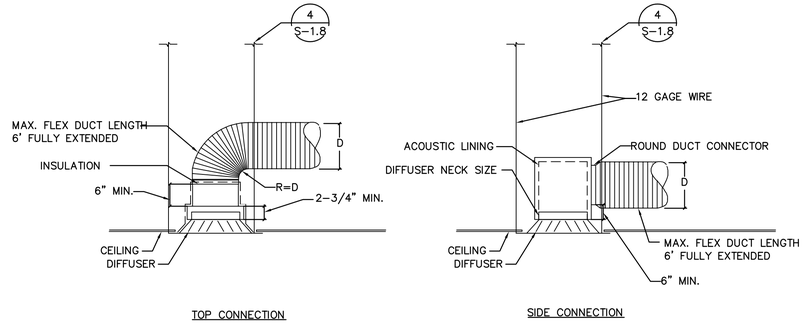
NOTES:

1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
3. FOR ROUND DUCTS, PROVIDE MANUAL DAMPER SLEEVE OR INTEGRATED MANUAL DAMPER TEE-WYE BRANCH FITTING.



MANUAL VOLUME BALANCING DAMPER DETAIL

NOT TO SCALE | 2



CEILING DIFFUSER TAKE-OFF DETAIL

NOT TO SCALE | 3

M4.2

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DRAWN BY:	PG
CHECK BY:	PP/GM
DATE:	02/01/24
PROJECT:	ICTC
FILE NAME:	
LAST REVISED:	

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL CONTROLS

SHEET: 132 OF 145

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NOT USED

NOT TO SCALE | 7

NOT USED

NOT TO SCALE | 8

NOT USED

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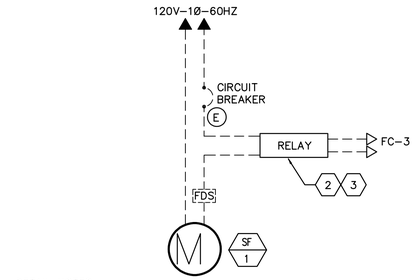
INTERLOCKED FAN CONTROL DIAGRAM



DETAIL NOTES:

1. INTERLOCK SF–1 TO FAN COIL UNIT FC–3.
2. SINGLE POLE SINGLE THROW RELAY FURNISHED, INSTALLED AND WIRED CONTROL CONTRACTOR.

NOT TO SCALE | 4

NOT USED

NOT TO SCALE | 5

NOT USED

NOT TO SCALE | 6

WIRING DIAGRAM NOTES AND SYMBOL LEGEND

ALL LINE VOLTAGE CONDUIT, WIRING, AND EQUIPMENT SHOWN DASHED SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

ALL LOW VOLTAGE WIRING & CONDUIT SHOWN SOLID SHALL BE FURNISHED AND INSTALLED BY THE LOW VOLTAGE CONTROLS CONTRACTOR. VERIFY THE EXACT REQUIREMENT WITH THE EQUIPMENT MANUFACTURER. CONDUIT SHALL BE FURNISHED AND INSTALLED BY THE LOW VOLTAGE CONTROLS CONTRACTOR.

DISCONNECT SWITCHES AND MAGNETIC STARTERS WITH H–O–A, 120V CONTROL TRANSFORMER, AND AUXILIARY CONTACTS INCLUDING RELAYS SHALL BE FURNISHED & INSTALLED BY THE ELECT. DIVISION.

(DD) DUCT SMOKE DETECTORS SHALL BE FURNISHED & WIRED BY THE ELECTRICAL DIVISION AND INSTALLED BY THE MECHANICAL DIVISION.

MECHANICAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY MECHANICAL DIVISION.

CB OR FDS — CIRCUIT BREAKER OR FUSED DISCONNECT SWITCH BY ELECTRICAL.

(T) — THERMOSTAT OR SPACE TEMPERATURE SENSOR BY CONTROLS CONTRACTOR.

ABBREVIATION LEGEND

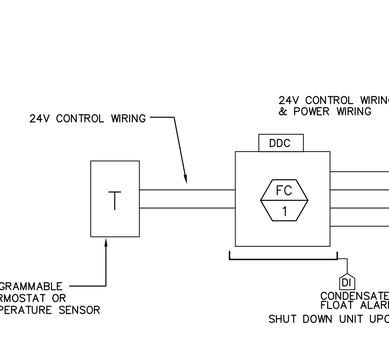
AI	ANALOG INPUT
AO	ANALOG OUTPUT
CB	
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DI	DIGITAL INPUT
DO	DIGITAL OUTPUT
FDS	FREQUENCY DRIVE SIGNAL
L1, L2, L3	LINE ENDS, ELECTRICAL
PS	PRESSURE SENSOR
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
TS	TEMPERATURE SENSOR
T	THERMOSTAT

NOTES:

1. ALL LOW VOLTAGE CONDUIT SHALL BE FURNISHED AND INSTALLED BY LOW VOLTAGE CONTROLS CONTRACTOR.
2. ALL LOW VOLTAGE WIRING (24 VAC.) SHALL COMPLY WITH CLASS 2 WIRING CODE. THE MINIMUM LOW VOLTAGE WIRING CONDUCTOR SIZE SHALL BE 16 AWG COPPER. ALL CONDUCTOR QUANTITIES SHALL BE COORDINATED WITH THE EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION. COORDINATION OF ALL LOW VOLTAGE EQUIPMENT WIRING SHALL BE THE RESPONSIBILITY OF THE LOW VOLTAGE CONTROLS CONTRACTOR.

NOT TO SCALE | 1

SPLIT SYSTEM FC/CUWIRING DIAGRAM

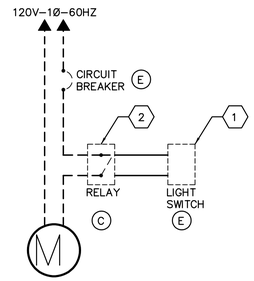


NOTES

1. PROGRAM FAN COIL UNIT THERMOSTAT TO OPERATE ONLY DURING OCCUPIED HOURS.

NOT TO SCALE | 2

LIGHT SWITCH CONTROLLED FAN WIRING DIAGRAM



DETAIL NOTES:

1. INTERLOCK EXHAUST FAN TO LIGHT SWITCH CONTROLLED VIA OCCUPANCY SENSOR. REFER TO ELECTRICAL PLANS.
2. SINGLE POLE SINGLE THROW RELAY FURNISHED, INSTALLED AND WIRED BY CONTROLS CONTRACTOR.

NOT TO SCALE | 3 | **M4.3**

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PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL CONTROLS

SHEET: 133 OF 145

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FAN COIL UNIT SPLIT SYSTEM- INDOOR UNIT

ITEM NO.	MANUFACTURER MODEL NO.	EQUIPMENT TYPE	AREA & ROOMS SERVED	EQPT. TONNAGE	AIRFLOW (CFM)	OUTSIDE AIR	FAN SPEED	EXTERNAL STATIC PRESSURE (IN. WG)	DX COIL (COOLING) TOTAL CAPACITY (MBH)	DX COIL (COOLING) SENSIBLE CAPACITY (MBH)	DX COIL (COOLING) EAT DB/WB (°F)	DX COIL (COOLING) LAT DB/WB (°F)	DX COIL (HEATING) HEATING CAPACITY (MBH)	DX COIL (HEATING) EAT DB (°F)	DX COIL (HEATING) LAT DB (°F)	ELECTRICAL V-Ø-Hz	ELECTRICAL MCA	NOISE LEVEL (dB @ 4K)	UNIT WEIGHT LBS.	ANCHOR DETAIL	REMARKS
FC 1	CARRIER TOSHIBA 40MBDQ36---3	LOW PROFILE DUCTED CEILING UNIT	TICKETING AREA, VESTIBULE, RESTROOM	3.0	1,230	125	HIGH	0.6	29.9	23.7	76.3/61.4	59.0/49.1	34.9	69.1	96.3	208-1-60	2.45	45.5	110	3 M4.1	1 2 3 4 6 8
FC 2	CARRIER 40MAHBQ12XA3	HIGH WALL NON DUCTED FAN COIL	ELECTRICAL ROOM	1.0	335	0	HIGH	0.0	10.3	7.5	72.0/62.0	55.9/45.4	–	–	–	208-1-60	0.625	52.0	45	4 M4.1	1 2 3 5 7 9 11
FC 3	CARRIER 40MBCQ12---3	4-WAY CEILING CASSETTE	OFFICE	1.0	400	60	HIGH	0.0	10.9	8.3	78.3/62.1	57.6/46.5	16.2	66.8	107.5	208-1-60	0.20	42.0	45	5 M4.1	1 2 3 4 6 8 10
FC 4	CARRIER 40MBDQ36---3	LOW PROFILE DUCTED CEILING UNIT	BREAK ROOM, RESTROOMS	3.0	1,230	150	HIGH	0.6	29.9	23.7	77.1/61.7	59.0/49.1	38.0	68.1	96.3	208-1-60	2.45	45.5	110	3 M4.1	1 2 3 4 6 8

REMARKS:

1. INDOOR UNIT POWER IS SUPPLIED BY OUTDOOR UNIT. REFER TO WIRING DETAIL.
2. FACTORY FURNISHED 24V INTERFACE KIT FOR 7-DAY PROGRAMMABLE WALL MOUNTED THERMOSTAT, INSTALLED BY MECHANICAL CONTRACTOR.
3. PROVIDE REFRIGERANT PIPES, SUPPORT, AND ELECTRONIC EXPANSION VALVE PER DETAIL 2/M4.1. AFTER INSTALLATION AND BEFORE OPERATION, TEST FIELD ERECTED COMPONENTS CONTAINING REFRIGERANT FOR LEAKAGE.
4. BUILT-IN CONDENSATE LIFT. REFER TO PLUMBING DWGS FOR CONDENSATE DESIGN CONTINUATION.
5. PROVIDE EXTERNAL CONDENSATE PUMP POWERED VIA FCU. REFER TO PLUMBING DWGS FOR CONDENSATE DESIGN.
6. PROGRAM FAN COIL THERMOSTAT TO OPERATE ONLY DURING OCCUPIED HOURS.
7. 24/7 OPERATION.
8. PROVIDE WITH MICROMETL FS-40MBDQ FILTER RACK AND MERV 13 FILTERS.
9. WASHABLE MESH FILTER
10. OA AND FILTRATION VIA SUPPLY FILTER FAN UNIT W/ MERV 13 FILTER.
11. DISABLE HEATING OPERATION. COOLING OPERATION ONLY.

CONDENSER UNIT SPLIT SYSTEM - OUTDOOR UNIT

ITEM NO.	MANUFACTURER MODEL NO.	UNIT SERVED	NOMINAL COOLING (BTU/h)	AIRFLOW (CFM)	SUMMER AMBIENT TEMP. (°F)	WINTER AMBIENT TEMP. (°F)	REFRIGERANT TYPE	REFRIGERANT PIPE DIA. CONNECTION SIZE RL" Ø	REFRIGERANT PIPE DIA. CONNECTION SIZE RS" Ø	REFRIGERANT CHARGE (LBS)	EER	SEER	COP	ELECTRICAL V-Ø-HZ	ELECTRICAL RLA	ELECTRICAL MCA	ELECTRICAL MCOP	NOISE LEVEL (dBA)	UNIT WEIGHT LBS.	ANCHOR DETAIL	REMARKS
HP 1	CARRIER 38MBRBQ36AA3	FC-1	36,000	2,118	105.0	31.0	R410A	3/8	5/8	7.05	8.5	16.5	3.20	208-1-60	23.5	30	45	61.7	156	7 M4.1	1 2 3 4 6
CU 2	CARRIER 38MARBQ12AA3	FC-2	12,000	1,325	105.0	31.0	R410A	1/4	1/2	2.60	14.0	25.5	–	208-1-60	8.5	15	15	56.0	75	7 M4.1	1 2 3 5 7
HP 3	CARRIER 38MARBQ12AA3	FC-3	12,000	1,325	105.0	31.0	R410A	1/4	1/2	2.60	12.7	21.5	3.22	208-1-60	8.5	15	15	56.0	75	7 M4.1	1 2 3 5 6
HP 4	CARRIER 38MBRBQ36AA3	FC-4	36,000	2,118	105.0	31.0	R410A	3/8	5/8	7.05	8.5	16.5	3.20	208-1-60	23.5	30	45	61.7	156	7 M4.1	1 2 3 4 6

REMARKS:

1. PROVIDE WITH UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE WITH COIL DEFROST KIT.
3. PROVIDE WITH SPRING VIBRATION ISOLATORS, MIN. 2" DEFLECTION.
4. COOLING OPERATING RANGE: -13°F - 122°F HEATING OPERATING RANGE: -22°F - 86°F
5. COOLING OPERATING RANGE: -22°F - 122°F HEATING OPERATING RANGE: -22°F - 86°F
6. PROVIDE WITH CONDENSATE DRAIN PAN. REFER TO PLUMBING DRAWINGS FOR CONDENSATE ROUTING.
7. COOLING ONLY. DISABLE HEATING OPTION.

FAN SCHEDULE

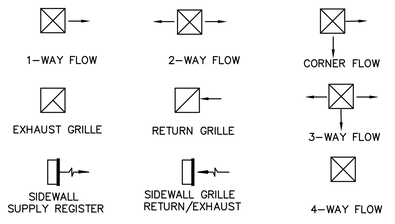
ITEM NO.	MANUFACTURER AND MODEL NO.	SERVICE AREA	LOCATION	FAN TYPE	DRIVE	AIR FLOW CFM	E.S.P. IN. H2O	EST. FAN RPM	EST. FAN BHP	MOTOR RPM	MOTOR FLA	MOTOR HP / (W)	MOTOR V-Ø-HZ	NOISE LEVEL dBA (SONES)	EST. OPERATING WEIGHT LBS.	ANCHOR DETAIL	REMARKS
EF 1	GREENHECK SP-A50-90-VG	RESTROOM	CEILING MOUNTED	FORWARD CURVED	DIRECT	70	0.20	838	–	–	0.29	(6)	115-1-60	(0.6)	20	6 M4.1	1 2 3
EF 2	GREENHECK SP-A50-90-VG	RESTROOM	CEILING MOUNTED	FORWARD CURVED	DIRECT	70	0.20	838	–	–	0.29	(6)	115-1-60	(0.6)	20	6 M4.1	1 2 3
EF 3	GREENHECK SP-A50-90-VG	JANITOR'S CLOSET	CEILING MOUNTED	FORWARD CURVED	DIRECT	90	0.20	887	–	–	0.29	(6)	115-1-60	(0.6)	21	6 M4.1	1 2 3
EF 4	GREENHECK SP-A50-90-VG	MEN'S RESTROOM	CEILING MOUNTED	FORWARD CURVED	DIRECT	70	0.20	838	–	–	0.29	(6)	115-1-60	(0.6)	20	6 M4.1	1 2 3
EF 5	GREENHECK SP-A50-90-VG	WOMEN'S RESTROOM	CEILING MOUNTED	FORWARD CURVED	DIRECT	70	0.20	838	–	–	0.29	(6)	115-1-60	(0.6)	20	6 M4.1	1 2 3
SF 1	GREENHECK SQ-60-VG	OFFICE VENTILATION	CEILING SUSPENDED	IN-LINE	DIRECT	60	0.22	1,305	0.01	1,725	–	1/15	115-1-60	39	47	6 M4.1	1 2 4 5

REMARKS:

1. VARI-GREEN EC MOTOR.
2. PROVIDE WITH DESIGNER GRILLE, ROUND DUCT CONNECTION, INTEGRAL BACKDRAFT DAMPER, MOUNTING BRACKET, AND PITCHED ROOF FLASHING FLANGE WITH ROOF CAP.
3. INTERLOCK EXHAUST FAN TO ACTIVATE WITH LIGHT SWITCH AND FOR 10 MINUTES AFTERWARDS.
4. INLINE EXHAUST FAN W/ INTEGRAL FILTER RACK.
5. INTERLOCK EXHAUST FAN OPERATION WITH FAN COIL FC-3.

GRILLES, REGISTERS, & DIFFUSERS

SYMBOL LEGEND



GENERAL NOTES

1. COORDINATE WITH ARCHITECT'S PLANS FOR ALL GRD COLORS AND FINISH PRIOR TO ORDERING.
2. PROVIDE GRD MODEL (MODULE AND NECK SIZE) BASED ON GRD TAG AND AIRFLOW PER FLOOR PLANS.
3. MODULE FACE SIZE AS INDICATED FOR ALL HARD LID, SURFACE MOUNT DEVICES FULL SIZE MODULE FACE FOR ALL LAY-IN CEILINGS. CFM'S AS INDICATED ON PLANS.
4. PROVIDE DIFFUSER BASED ON CEILING TYPE AND CFM MENTIONED ON PLAN PER SCHEDULE.
5. PROVIDE BOWDEN YOUNG REGULATOR FOR INACCESSIBLE CEILINGS AND AIR BALANCE THRU FACE OF AIR DEVICE FOR INACCESSIBLE CEILINGS.
6. NOISE LEVEL NOT TO EXCEED NC 25 (UNLESS OTHERWISE NOTED ON PLANS).
7. SUPPLY DIFFUSERS AND REGISTERS ARE TO BE PROVIDED WITH REGISTER FACE TYPE BALANCING DAMPERS UNLESS OTHERWISE NOTED ON PLANS.

CEILING 4-WAY SUPPLY DIFFUSER (T-BAR)

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	ROUND NECK SIZE (IN)	MODULE SIZE (IN. x IN.)	CFM RANGE	MAX NC	BORDER TYPE	MATERIAL	ASHRAE DIFFUSER CLASS	REMARKS
A	TITUS PMC	PERFORATED CURVED BLADE MODULAR CORE SUPPLYCEILING DIFFUSER	6" Dia.	24"x24"	0 - 120	< 25	TYPE 3 T-BAR	STEEL	A - CEILING HORIZONTAL	1 SEE GRD NOTES.
A	TITUS PCS		8" Dia.	24"x24"	120 - 200	< 25	TYPE 3 T-BAR	STEEL	A - CEILING HORIZONTAL	1 SEE GRD NOTES.
A	TITUS PCS		10" Dia.	24"x24"	200 - 300	< 25	TYPE 3 T-BAR	STEEL	A - CEILING HORIZONTAL	1 SEE GRD NOTES.
A	TITUS PCS		12" Dia.	24"x24"	300 - 410	< 25	TYPE 3 T-BAR	STEEL	A - CEILING HORIZONTAL	1 SEE GRD NOTES.
A	TITUS PCS		14" Dia.	24"x24"	410 - 535	< 25	TYPE 3 T-BAR	STEEL	A - CEILING HORIZONTAL	1 SEE GRD NOTES.

REMARKS:

1. 4-WAY THROW UNLESS OTHERWISE NOTED ON PLANS.

CEILING 4-WAY SUPPLY DIFFUSER (HARD LID)

SYMBOL	MANUFACTURER & MODEL NO.	TYPE	NECK SIZE (IN x IN)	MODULE SIZE (IN. x IN.)	CFM RANGE	MAX NC	BORDER TYPE	MATERIAL	ASHRAE DIFFUSER CLASS	REMARKS
B	TITUS PMC	MODULAR CORE SUPPLY CEILING	6"x6"	12"x12"	0 - 225	< 25	TYPE 6 HARD LID	STEEL	A - CEILING HORIZONTAL	1 2 SEE GRD NOTES.

REMARKS:

1. 4-WAY THROW UNLESS OTHERWISE NOTED ON PLANS.
2. HARD-LID ADAPTER

WALL LOUVER SCHEDULE

ITEM NO.	MANUFACTURER & MODEL NO.	FUNCTION	EQPT. SERVED	VOLUME (CFM)	FREE AREA (SQ. FT.)	SIZE W X H (INCHES)	FREE AREA VELOCITY (FT/MIN)	ANCHOR DETAIL	NOTES
L-1	GREENHECK ESD-635	OUTSIDE AIR INTAKE	FCU 1	125	0.28	16" x 12"	445	6 M4.2	1 2 3
L-2	GREENHECK ESD-635	OUTSIDE AIR INTAKE	FCU 3	60	0.28	16" X 12"	215	6 M4.2	1 2 3
L-3	GREENHECK ESD-635	OUTSIDE AIR INTAKE	FCU 4	150	0.28	16" X 12"	535	6 M4.2	1 2 3

REMARKS:

1. LOUVER DIMENSIONS ARE FOR MINIMUM WALL OPENING.
2. BAKED ACRYLIC ENAMEL. COORDINATE COLOR WITH ARCHITECT.
3. BIRD SCREEN WITH STAINLESS STEEL WIRE MESH.

M5.1

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PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET: 134 OF 145

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PLUMBING GENERAL NOTES

1. COORDINATE THE MOUNTING OF ALL OVERHEAD PIPING WITH HVAC DUCTWORK AND WORK OF OTHER TRADES.
2. ALL V.T.R.'S SHALL TERMINATE AT MINIMUM OF 3'–0" FROM ALL VERTICAL SURFACES AND A MINIMUM HORIZONTAL DISTANCE OF 10'–0" FROM OR AT LEAST 3'–0" ABOVE ALL OUTSIDE AIR INTAKES.
3. CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SITE UTILITIES AND VERIFY INVERT ELEVATIONS TO ASSURE THAT PROPER SLOPE MAY BE OBTAINED BEFORE BEGINNING WORK.
4. ALL SANITARY WASTE, ROOF AND OVERFLOW DRAIN LINES SHALL HAVE A 2% SLOPE UNLESS OTHERWISE NOTED.
5. TERMINATE ALL OVERALL DRAIN LINES TO DAYLIGHT WITH DOWNSPOUT NOZZLE WITH NICKEL BRONZE FINISH OR EQUIVALENT.
6. COORDINATE EXACT LOCATION OF EACH ROOF AND OVERFLOW DRAIN LINE TERMINATION WITH ARCHITECTURAL DRAWINGS.
7. ALL SLAB PENETRATIONS SHALL BE SEALED USING POURABLE URETHANE SEALANT.
8. COORDINATE MOUNTING HEIGHTS OF ACCESSIBLE FIXTURES WITH ARCHITECTURAL DRAWINGS.
9. COLD WATER PIPE IN AREAS WHERE PIPE MIGHT BE SUBJECTED TO FREEZING SHALL BE INSULATED WITH 1/2" THICK INSULATION ON 1/2" PIPING, 1" THICK FOR 3/4" AND LARGER PIPING.
10. PROVIDE 1/4" –TURN BALL SHUT–OFF VALVES (NO GATE VALVES) TO ISOLATE ALL EQUIPMENT AND ANGLE STOPS WITH CAST BRASS STEM AND NUTS TO ISOLATE ALL FIXTURES. VALVES SHALL BE OF THE SAME MANUFACTURER AND APPROVED MAKE.
11. PROVIDE ACCESS PANELS FOR ANY VALVES OR SIMILAR EQUIPMENT REQUIRING ACCESS LOCATED ABOVE SOLID CEILINGS OR IN WALLS.
12. THE PROJECT SHALL BE IN CODE COMPLIANCE WITH THE LATEST CALIFORNIA BUILDING CODE AND CALIFORNIA PLUMBING CODE WITH LOCAL AMENDMENTS.
13. ALL PLUMBING FIXTURES MUST COMPLY WITH AB 1953 FOR LOW LEAD FIXTURES.
14. ALL PLUMBING FIXTURES FOR DOMESTIC WATER USE MUST COMPLY WITH NSF.

WATER CALCULATION

DOMESTIC WATER FIXTURE UNIT LOADS

FIXTURE	QUANTITY	FIXTURE UNITS REQUIRED EA.		FIXTURE UNIT TOTAL	
		CW	HW	CW	HW
WATER CLOSET (PRIVATE)	3	5	–	15	–
WATER CLOSET (PUBLIC)	1	5	–	5	–
LAVATORY (PRIVATE)	3	1	1	3	–
LAVATORY (PUBLIC)	1	1	1	1	–
SINK (PRIVATE)	1	2	2	2	–
MOP/ SERVICE SINK (PUBLIC)	1	3	3	3	–
HOSE BIBB (EXTERIOR)	2	(1@1)+2.5	–	3.5	–
DRINKING FOUNTAIN	2	1	–	2	–
TOTAL				35	–

(FLUSH VALVE FIXTURE UNITS)

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	COLD WATER
(E)CW	(E)CW	EXISTING COLD WATER
	HW	HOT WATER
(E)HW	(E)HW	EXISTING HOT WATER
	V	SANITARY VENT
	W OR SS	WASTE OR SANITARY SEWER
(E)SS	(E)SS	EXISTING SANITARY SEWER
CD	CD	CONDENSATE DRAIN
SCD	SCD	SECONDARY CONDENSATE DRAIN
	SOV	SHUT OFF VALVE
		BALL VALVE
	HB	HOSE–BIBB
		PIPE–UP OR RISER
		PIPE–DOWN OR DROP
		UNION
	FCO	FLOOR CLEANOUT
	WCO	WALL CLEANOUT
(E)		EXISTING
		CAP OR PLUG
		REMODEL KEY NOTE
		FLOW ARROW
		INCREASER/REDUCER

SHEET INDEX

APPLICABLE CODES

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

ADMINISTRATIVE CODES –THE 2019 CALIFORNIA ADMINISTRATIVE CODE (PART 1 OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24).

BUILDING CODE – 2019 CALIFORNIA BUILDING CODE (PART 2 OF CCR TITLE 24). WHICH IS BASED ON 2018 INTERNATIONAL BUILDING CODE PUBLISHED BY INTERNATIONAL CODE COUNCIL (ICC).

ELECTRICAL CODE – 2109 CALIFORNIA ELECTRICAL CODE (PART 3 OF CCR TITLE 24), WHICH IS BASED ON 2017 NATIONAL ELECTRICAL CODE PUBLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

MECHANICAL CODE –2019 CALIFORNIA MECHANICAL CODE (PART 4 OF CCR TITLE 24), WHICH IS BASED ON 2018 UNIFORM MECHANICAL CODE PUBLISHED BY INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO)

PLUMBING CODE – 2019 CALIFORNIA PLUMBING CODE (PART 5 OF CCR TITLE 24), WHICH IS BASED ON 2018 UNIFORM PLUMBING CODE PUBLISHED BY (IAPMO)

FIRE CODE – 2019 CALIFORNIA FIRE CODE (PART 9 OF CCR TITLE 24), WHICH IS BASED ON 2018 INTERNATIONAL FIRE CODE PUBLISHED BY INTERNATIONAL CODE COUNCIL (ICC).

EXISTING BUILDING CODE – 2019 CALIFORNIA EXISTING BUILDING CODE (PART 10 OF CCR TITLE 24). WHICH IS BASED ON 2018 INTERNATIONAL EXISTING BUILDING CODE PUBLISHED BY INTERNATIONAL CODE COUNCIL (ICC).

ANCHORAGE DESIGN CRITERIA

1. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE LATEST CBC, SECTION 1614A.1.13 AND ASCE 7–05, SECTIONS 13.3, 13.4 AND 13.6.
2. THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NOT BE DETAILED ON THE PLANS.
   - 2.1. EQUIPMENT WEIGHING LESS THAN 400 POUNDS SUPPORTED DIRECTLY ON THE FLOOR OR ROOF.
   - 2.2. FURNITURE REQUIRED TO BE ATTACHED IN ACCORDANCE WITH PART 2, TITLE 24, C.C.R.
   - 2.3. TEMPORARY OR MOVABLE EQUIPMENT.
   - 2.4. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUPPORTED BY VIBRATION ISOLATORS.
   - 2.5. EQUIPMENT WEIGHING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF, FLOOR OR HUNG FROM A WALL.
3. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE BUILDING INSPECTOR.

PIPING BRACING NOTES:

1. PIPING SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7–05, SECTION 13.3 AS DEFINED IN ASCE 7–05, SECTIONS 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.
2. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE–APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
3. COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO THE COMMENCEMENT OF HANGING AND BRACING THE PIPE.
4. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

HYDRAULIC WATER CALCULATION

WATER PRESSURE:

STATIC PRESS. AT STREET = 60 PSI
RESIDUAL PRESS. AT STREET = 52 PSI

BUILDING DEMAND:

TOTAL DEMAND 35 FIXTURE UNIT (FU) = 44 GPM

PRESSURE LOSSES:

SITE METER – 2" = 1.5 PSI
BACKFLOW DEVICE PRESSURE DROP – 2" = 13 PSI*
OTHER PRESSURE DROP = – PSI
SITE STATIC 3 x0.433 = 1.3 PSI
BUILDING STATIC 7 x0.433 = 3 PSI
RESIDUAL REQUIRED (FV) = 25 PSI
TOTAL LOSSES = 43.3 PSI

PRESSURE AVAILABLE FOR FRICTION LOSS:

PRESSURE AVAILABLE FOR LOSSES 52–43.3 = 8.2 PSI
TOTAL DEVELOPED LENGTH 158 x1.5 (FITTINGS) = 237 FEET
PSI LOSSES PER 100 FT.
8.2 PSIx100'/ 237 FT. = 3.5 PSI/100'

PIPING SIZED ON 3.5 PSI/100' PIPE FRICTION LOSS &
MAX. 5 FT./SEC. VELOCITY.

DOMESTIC COLD WATER SIZING

PIPE SIZE	FIXTURE UNITS	
	FLUSH TANK	FLUSH VALVE
1/2"	1	–
3/4"	6	–
1"	15	–
1 1/4"	28	–
1 1/2"	54	13
2"	187	83

PIPE MATERIAL: TYPE L COPPER

MAXIMUM ACCEPTABLE PRESSURE LOSS: 3.5 PSI/100 FT.

MAXIMUM ACCEPTABLE VELOCITY: 5 FT./SEC.

P0.1

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SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 09-30-2024 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: PLUMBING GENERAL NOTES, CODES, LEGEND AND SHEET INDEX

SHEET: 135 OF 145

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Plotted - 2/1/2024 4:15:37 PM :: Saved - 2/1/2024 4:15:22 PM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\P0.1.dwg :: kkiliona

FIXTURE SCHEDULE

EQUIP. TAG	DESCRIPTION	LOCATION	MANUFACTURER AND MODEL NO.	FIXTURE CONNECTIONS					REMARKS
				TRAP	WASTE	VENT	HOT WATER	COLD WATER	
WC–1	WATER CLOSET (ACCESSIBLE)	STAFF RESTROOMS	AMERICAN STANDARD 3351.528	INT	4"	2"	--	1 1/2"	1.28 GPF FLUSHOMETER TOILET SYSTEM. WALL–MOUNTED. HIGH–EFFICIENCY. FLUSH VALVE: MODEL NO. 6065.121, BATTERY–POWERED BY FACTORY INSTALLED LITHIUM BATTERY. CARRIER: J. R. SMITH, MODEL 0115, SINGLE AND DOUBLE, ADJUSTABLE FIXTURE SUPPORTS.
WC–2	WATER CLOSET (ACCESSIBLE)	PUBLIC RESTROOM	ACORN 1696–W–1	INT	4"	2"	--	1 1/2"	WALL–MOUNT, ELONGATED STAINLESS–STEEL BOWL, BLOWOUT JET, 1.6 GPF. FLUSH VALVE: SLOAN, ROYAL 151, MANUAL FLUSHOMETER VALVE, CONCEALED, 1.6 GPF. CARRIER: J. R. SMITH, MODEL 0330, ADJUSTABLE SUPPORT.
L–1	LAVATORY (ACCESSIBLE)	STAFF RESTROOMS	KOHLER MODEL NO. K–2005–0	1–1/2"	2"	2"	3/4"	3/4"	WALL–MOUNT LAVATORY, WHITE, 4" CENTERS. P–TRAP: MODEL NO. K–8998–CP. FAUCET: KOHLER MODEL NO. K–13460–CP, SENSOR–OPERATED AND TEMPERATURE MIXER, BATTERY POWERED, PROVIDE WITH ESCUTCHEON MODEL NO. K–13478–A–CP. PROVIDE "TRU–BRO" UNDERSINK PIPE PROTECTION.
L–2	LAVATORY (ACCESSIBLE)	PUBLIC RESTROOM	ACORN 1652LRB–1–DMS–04–M	1–1/2"	2"	2"	3/4"	3/4"	WALL–MOUNT LAVATORY, 14–GA, TYPE 304 STAINLESS–STEEL, 18", ADA, DECK MOUNTED SPOUT, HOT & COLD METERING, WALL WASTE OUTLET, WITH WALL MOUNTING HARDWARE. MIRROR: ACORN MODEL NO. 1812, HANDICAPPED FRAMED SECURITY MIRROR, 14–GA, TYPE 304 STAINLESS STEEL FRAME.
S–1	SINK	BREAK ROOM	JUST SINK, MODEL NO. SL–ADA–1921–A–GR	1–1/2"	2"	2"	3/4"	3/4"	STAINLESS STEEL, 6–1/2" DEEP SINGLE BOWL, LEDGE TYPE. CENTER–REAR DRAIN LOCATION, ACCOMMODATE FOOD DISPOSER. FAUCET: CHICAGO MODEL NO. 431–ABCP, DECK–MOUNTED MANUAL, 8" CENTERS, SWING–SPOUT, NON–AERATING 1.5 GPM, VANDAL–PROOF LEVER HANDLE. FOOD DISPOSER: INSINKERATOR, BADGER 1, 1/3HP, 120V, 60HZ, 1725 RPM, 5.6 AMP.
MS–1	MOP SINK	JANITOR ROOM	KOHLER WHITBY NO. K–6710	3"	3"	2"	3/4"	3/4"	FLOOR MOUNTED CORNER MOP SINK, WHITE, 28"X28" WITH RIM GUARD, KOHLER #K–8940. FAUCET: AMERICAN STANDARD MODEL NO. 8345.115, WALL MOUNTED MOP SINK FAUCET.
FD–1	FLOOR DRAIN	STAFF RR, PUBLIC RR, JANITOR ROOM	J. R. SMITH MODEL NO. 2009	2"	2"	2"	--	1/2" TP	CAST IRON ROUND RECEPTOR, FLASHING COLLAR, ADJUSTABLE STRAINER, SEEPAGE HOLES, NICKEL BRONZE STRAINER AND VANDAL PROOF SECURED GRATE, HEEL PROOF PROVIDE WITH TRAP PRIMER CONNECTION AS REQUIRED.
HB–1	WALL HYDRANT (INTERIOR AND EXTERIOR)	EXTERIOR	ACORN MODEL NO. 8151	--	--	--	--	3/4"	RECESSED WALL HOSE BOX WITH VACUUM BREAKER. 18 GAUGE, 304 STAINLESS STEEL BOX, DOOR, AND FRAME, SATIN FINISH, DOOR WITH CAM LATCH, CARTRIDGE OPERATED VALVE, SCREWDRIVER STOP, DUAL CHECK VALVES, NON–FREEZE.
TP–1	TRAP PRIMER	STAFF RR, PUBLIC RR JANITOR ROOM	PRECISION PLUMBING PRODUCTS, MODEL NO. PR–500	--	--	--	--	1/2"	PROVIDE WITH DISTRIBUTION UNIT AS REQUIRED FOR TWO (2) DRAINS. TRAP PRIMER SHALL BE CONSTRUCTED OF CORROSION RESISTANT BRASS. PROVIDE ACCESS PANEL AT STAFF RESTROOMS.
WHA–1	WATER HAMMER ARRESTOR	STAFF RR, PUBLIC RR	PRECISION PLUMBING PRODUCTS MODEL NO. SC SERIES	--	--	--	--	AS REQ.	BARREL FABRICATED OF TYPE k HARD DRAWN COPPER, BRASS PISTON, "O" RING EPDM SEAL, INSTALL AT EACH PLUMBING FIXTURE OR BATTERY OF PLUMBING FIXTURE. INSTALL ON BOTH HOT AND COLD WATER BRANCH LINES IN AN UP RIGHT POSITION AS CLOSE AS POSSIBLE TO THE VALVE OR VALVES BEING SERVED. SIZE AND LOCATION PER P.D.I. STANDARD WH–201
RD–1	ROOF AND OVERFLOW DRAIN	ROOF	J. R. SMITH MODEL NO. 1830Y	--	--	--	--	--	ROOF AND OVERFLOW DRAIN WITH DECK TOP MOUNTING PLATE, 3" DIAMETER DRAIN NO–HUB PIPING, DUCO–CAST IRON BODY, GRAVEL STOP FOR ROOF DRAIN AND EXTERNAL DAM FOR OVERFLOW DRAIN, GALVANIZED CAST–IRON DOME.
BFP–1	BACKFLOW PREVENTER	EXTERIOR	ZURN MODEL NO. 975XL2	--	--	--	--	2"	LEAD–FREE CAST BRONZE, STAINLESS STEEL FASTENERS, STAINLESS STEEL BALL VALVES, MAX. WORKING PRESSURE: 175 PSI. AIR–GAP.
DF–1	DRINKING FOUNTAIN	BREAK ROOM & SECURITY AREA	OASIS MODEL NO. PG8EBFSL	INT.	2"	2"	--	3/4"	VANDAL–RESISTANT BOTTLE FILLING STATION & BI–LEVEL COOLER FILTERED REFRIGERATED STAINLESS STEEL TYPE. 115V/60HZ, LAMINAR FLOW.

PLUMBING EQUIPMENT SCHEDULE

ITEM	TYPE	DESCRIPTION
WH–1	INSTANTANEOUS WATER HEATER – STAFF RR LAVATORIES & BREAK ROOM SINK	CHRONOMITE INSTANT FLOW C–MICRO MODEL NO. CM–12L/120. LOW ACTIVATION. 120VOLTS 12AMPS 1440 WATT POWER REQUIREMENT. CAPABLE OF 20°F RISE @ .5 GPM. TOTAL WEIGHT 5 LBS.
WH–2	INSTANTANEOUS WATER HEATER – PUBLIC RESTROOM LAVATORY	CHRONOMITE INSTANT FLOW C–MICRO MODEL NO. CMI–12L/120. LOW ACTIVATION. 120VOLTS 12AMPS 1440 WATT POWER REQUIREMENT. CAPABLE OF 20°F RISE @ .5 GPM. TOTAL WEIGHT 5 LBS.
WH–3	INSTANTANEOUS WATER HEATER – JANITOR MOP SINK	CHRONOMITE MODEL NO. R–48L/208. LARGE CAPACITY. 208 VOLTS 48 AMPS 10000 WATTS POWER REQUIREMENT. CAPABLE OF 27 RISE @ 1.5 GPM. TOTAL WEIGHT 10 LBS.

PIPE MATERIAL TABLE

SERVICE	PIPE	FITTINGS	REMARKS
DOMESTIC HOT AND COLD WATER SYSTEM	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88.	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16, 18	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER. ALL EXPOSED WATER PIPING AT PLUMBING FIXTURES SHALL BE CHROME PLATED. PROVIDE PIPE INSULATION WHEN EXPOSED.
WASTE, VENT & STORM	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL PIPE, TYLER WIDE BODY OR EQUAL	STANDARD WEIGHT CAST IRON NO–HUB TYPE SOIL FITTINGS WITH NEOPRENE GASKET AND STAINLESS STEEL BANDS AND SHIELD, NO–HUB	NSF LISTED
CONDENSATE DRAINAGE	SEAMLESS COPPER TUBING, TYPE L ABOVE GROUND, DRAWN TEMPER, ASTM B88.	WROUGHT COPPER, SOLDER – JOINT, ANSI B16.22 OR CAST BRONZE ANSI B16, 23, ANSI 16, 18	JOINTS: 95 – 5 (TIN AND ANTIMONY) SOLDER. PROVIDE PIPE INSULATION INSIDE THE BUILDING.

P0.2

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FILE NAME:
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PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLUMBING SCHEDULES

SHEET: 136 OF 145

BID DELIVERABLE

GENERAL NOTES

1. VERIFY EXACT LOCATION OF EXISTING UNDERGROUND UTILITY LINE WITH CIVIL DRAWINGS PRIOR TO CONSTRUCTION.

REMODEL KEY NOTES

1. BUILDING STORM DRAIN TO CONNECT TO UNDERGROUND STORM DRAIN SYSTEM.
2. FOR STORM DRAIN RISER LEAD THROUGH STRUCTURAL COLUMN, REFER TO DETAIL 3/P3.2.

THIRD STREET

ROCKWOOD AVE

HEFFERNAN AVE.

ALLEY

FARM LABORER'S BUS/TRAILER

FARM LABORER'S BUS/TRAILER

4" SS (POINT OF CONNECTION) (36 FU)(I.E.=-5'-11")

3" SD (560 S.F.)

3" SD (486 S.F.)

2" CW (34 FU, 44 GPM) POINT OF CONNECTION

2" S.O.V. IN VAULT (BY CIVIL)

3 P3.2 2 (TYP. 8 LOCATIONS)

3" SD (635 SF)

3" SD (1,270 SF)

2" CW BELOW GRADE (BY CIVIL)

2" BACKFLOW PREVENTER (BY CIVIL)

WATER METER (BY CIVIL)

40' BUS

PM's

ASPH

CONC

0 10' 20' 40' 60'

SCALE: 1" = 20'

PLUMBING SITE PLAN

1

P1.1

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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: PLUMBING SITE PLAN

SHEET: 137 OF 145

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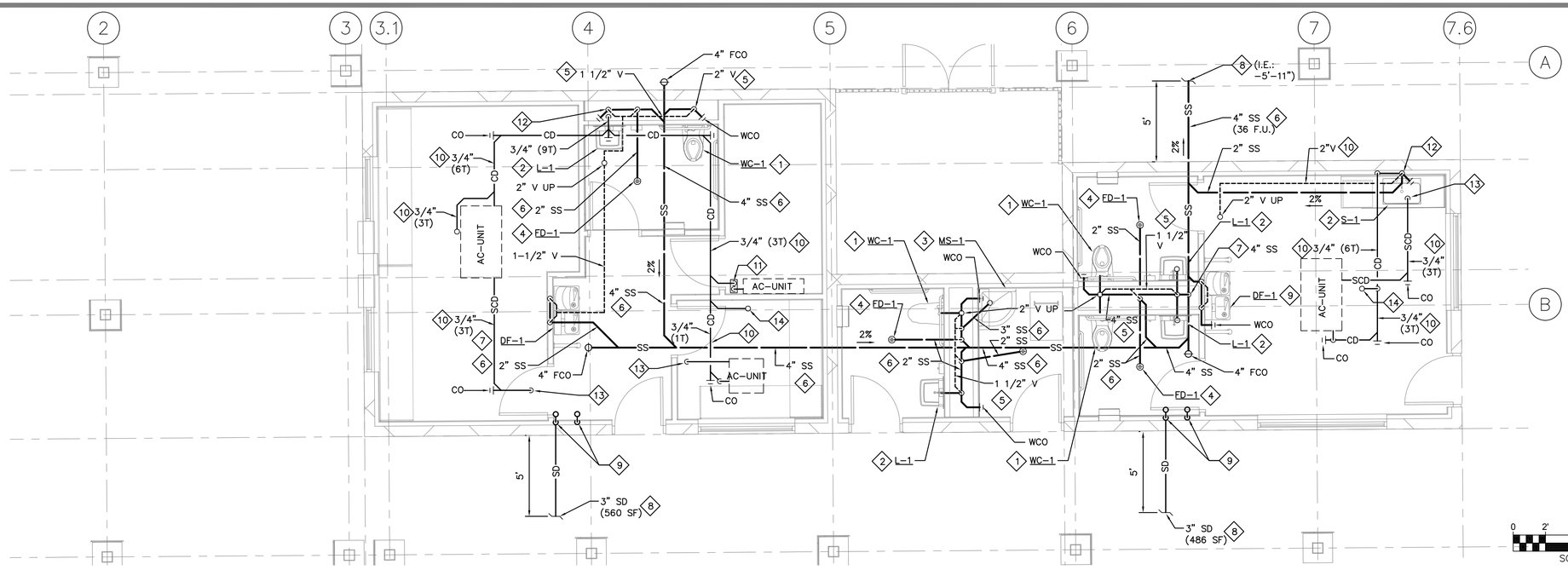
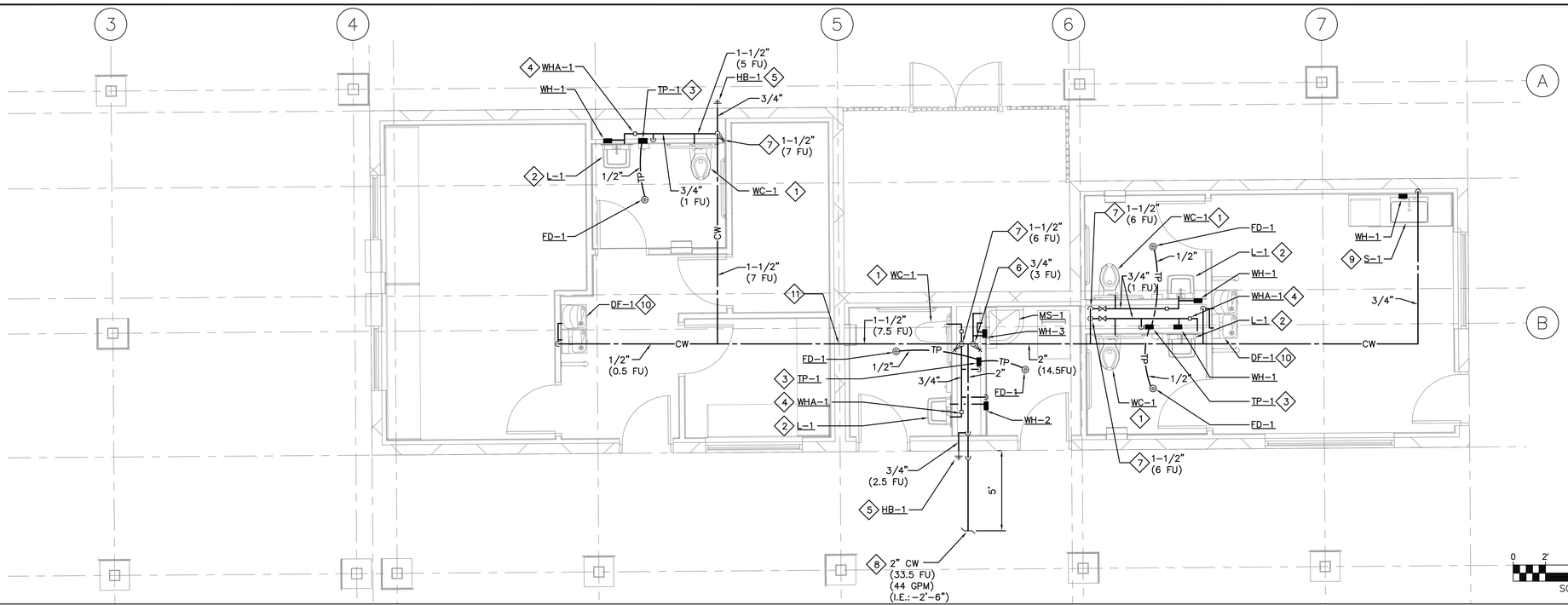


PLUMBING FLOOR PLAN - SANITARY WASTE AND VENT SYSTEM

SCALE: 1/4" = 1'-0" | 2



PLUMBING FLOOR PLAN - DOMESTIC WATER SYSTEM

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

GENERAL NOTES

1. PROVIDE PIPE SLEEVE AND FIRE CAULKING TO ALL PIPE WALL PENETRATIONS.

CONSTRUCTION KEY NOTES

SANITARY WASTE AND VENT SYSTEM:

1. PROVIDE 4" SANITARY SEWER AND 2" VENT TO WATER CLOSET (WC-1).
2. PROVIDE 2" SANITARY SEWER AND 1-1/2" VENT TO LAVATORY (L-1)/SINK (S-1).
3. PROVIDE 3" SANITARY SEWER AND 2" VENT TO MOP SINK (MS-1).
4. PROVIDE 2" SANITARY SEWER AND 1-1/2" VENT TO FLOOR DRAIN (FD-1).
5. PIPING IN PIPE CHASE ABOVE GROUND.
6. PIPING BELOW GRADE.
7. PROVIDE 2" SANITARY SEWER AND 1-1/2" VENT TO DRINKING FOUNTAIN (DF-1).
8. FOR CONTINUATION, SEE SITE PLAN, DRAWING P1-01.
9. 3" STORM DRAIN AND 3" OVERFLOW DRAIN FROM ABOVE AND DOWN INTO FURRED WALL. STORM DRAIN TO BELOW GRADE OUT, SPILL AT FACE OF CURB. OVERFLOW DRAIN TO SPILL AT FACE OF BUILDING 12" ABOVE FINISH FLOOR.
10. PIPING ABOVE CEILING.
11. PROVIDE 3/4" CONDENSATE DRAIN UP FROM PUMP.
12. CONDENSATE DRAIN TO CONNECT TO TAIL PIECE.
13. SECONDARY CONDENSATE DRAIN TO DISCHARGE 2" BELOW CEILING TILE. PROVIDE ESCUTCHEON.
14. CONDENSATE DRAIN FROM CONDENSATE UNIT ON ROOF.

DOMESTIC WATER SYSTEM:

1. PROVIDE 1-1/2" COLD WATER TO WATER CLOSET (WC-1).
2. PROVIDE 3/4" COLD WATER TO LAVATORY (L-1). BRANCH 1/2" COLD WATER TO INSTANTANEOUS WATER HEATER (WH-1). PROVIDE 1/2" COLD WATER AND HOT WATER TO LAVATORY FAUCET.
3. PROVIDE 1/2" COLD WATER TO TRAP PRIMER (TP-1). RUN 1/2" COLD WATER FROM TRAP PRIMER TO FLOOR DRAIN (FD-1) TRAP PRIMER CONNECTION.
4. PROVIDE IN-LINE WATER HAMMER ARRESTOR.
5. PROVIDE 3/4" COLD WATER TO HOSE BIBB (HB-1).
6. PROVIDE 1" COLD WATER RISER WITH SHUT-OFF VALVE AND DOWN TO MOP SINK (MS-1). PROVIDE ACCESS PANEL FOR THE SHUT-OFF VALVE. BRANCH 3/4" COLD WATER AND CONNECT TO INSTANTANEOUS WATER HEATER (WH-2). PROVIDE 3/4" COLD WATER AND HOT WATER TO MOP SINK FAUCET.
7. PROVIDE 1-1/2" COLD WATER RISER WITH SHUT-OFF VALVE AND ACCESS PANEL.
8. FOR CONTINUATION, SEE SITE PLAN, DRAWING P1-01.
9. PROVIDE 3/4" COLD WATER TO SINK (S-1). BRANCH 1/2" COLD WATER TO INSTANTANEOUS WATER HEATER (WH-2). PROVIDE 1/2" COLD WATER AND HOT WATER TO SINK FAUCET.
10. PROVIDE 3/4" COLD WATER DROP IN WALL TO DRINKING FOUNTAIN (DF-1).
11. PROVIDE PIPE SLEEVE AND FIRE CAULKING AS REQUIRED.

P2.1

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PROJECT: ICTC
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PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: PLUMBING FLOOR PLANS

SHEET: 138 OF 145

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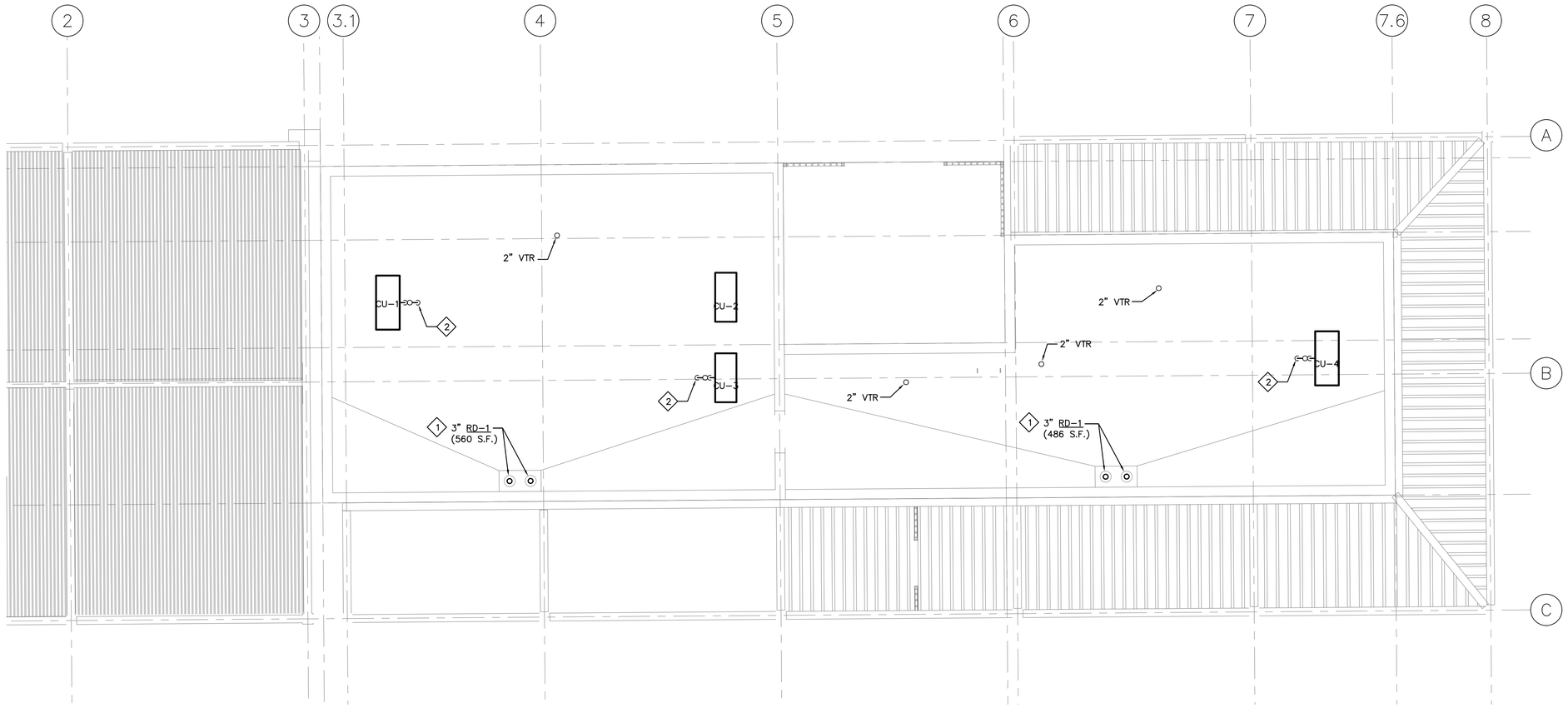

0 2' 4' 8' 12'

SCALE: 1" = 4'

PLUMBING ROOF PLAN

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

GENERAL NOTES

REMODEL KEY NOTES

1. PROVIDE 3" STORM AND OVERFLOW DRAIN PIPING, NO-HUB. REFER TO FIXTURE SCHEDULE FOR ROOF AND OVERFLOW DRAIN COMBINATION INFORMATION.
2. 3/4" CONDENSATE DRAIN DOWN INTO CEILING SPACE.

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SHEET TITLE: PLUMBING ROOF PLAN

SHEET: 139 OF 145

P2.2

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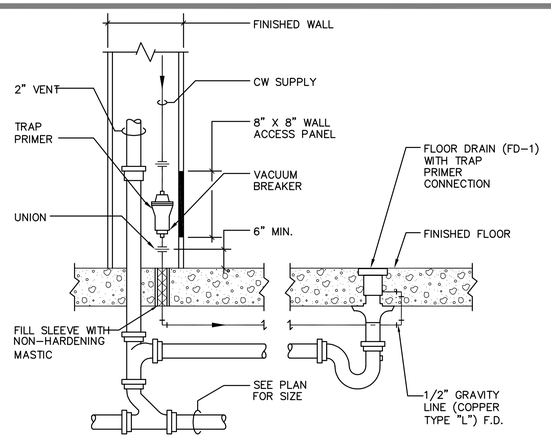
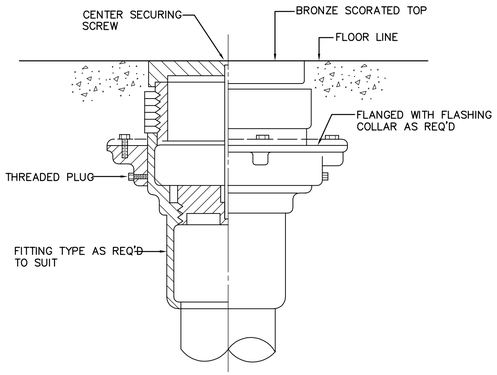


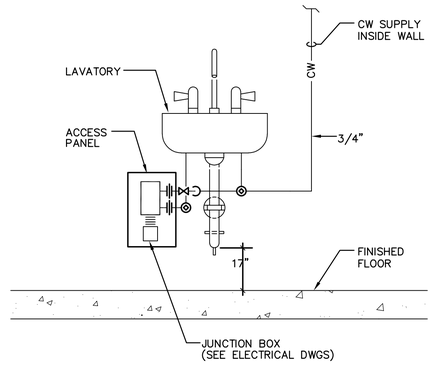
FLOOR DRAIN WITH TRAP PRIMER DETAIL

NOT TO SCALE | 10



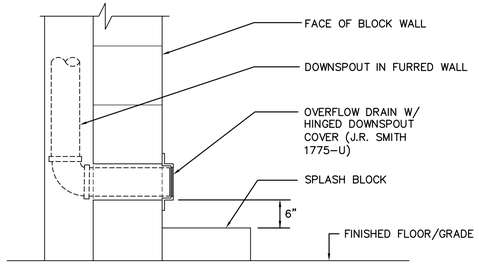
FLOOR CLEANOUT DETAIL

NOT TO SCALE | 7



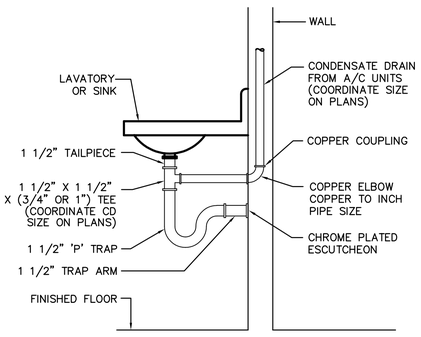
INSTANTANEOUS WATER HEATER - (WH-1)

NOT TO SCALE | 4



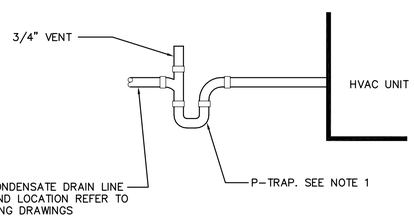
OVERFLOW DRAIN DETAIL

NOT TO SCALE | 1



CONDENSATE DRAIN TO TAILPIECE DETAIL

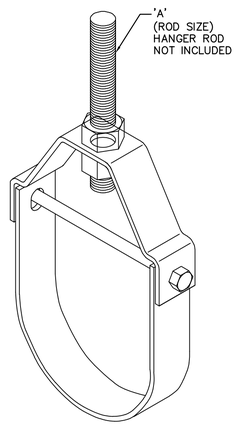
NOT TO SCALE | 11



NOTE:
1. DEPTH OF P-TRAP SHOULD BE 2" GREATER THAN THE STATIC PRESSURE OF THE SYSTEM AT THE POINT OF CONNECTION

TYPICAL HVAC UNIT CONDENSATE CONNECTION

NOT TO SCALE | 12



B3100
STANDARD CLEVIS HANGER

NOMINAL PIPE SIZE IN.	(MM)	CLEVIS HANGER PART NO.	PIPE SLEEVE PART NO.*
1/2"	(15)	B3100-1/2	N/A
3/4"	(20)	B3100-3/4	N/A
1"	(25)	B3100-1	B3100PS-1
1 1/4"	(32)	B3100-1 1/4	B3100PS-1 1/4
1 1/2"	(40)	B3100-1 1/2	B3100PS-1 1/2
2"	(50)	B3100-2	B3100PS-2
2 1/2"	(65)	B3100-2 1/2	B3100PS-2 1/2
3"	(80)	B3100-3	B3100PS-3
3 1/2"	(90)	B3100-3 1/2	B3100PS-3 1/2
4"	(100)	B3100-4	B3100PS-4
5"	(125)	B3100-5	B3100PS-5
6"	(150)	B3100-6	B3100PS-6
8"	(200)	B3100-8	B3100PS-8
10"	(250)	B3100-10	B3100PS-10
12"	(300)	B3100-12	B3100PS-12

* NOT INCLUDED WHEN ORDERING STANDARD B3100 SERIES CLEVIS HANGER.

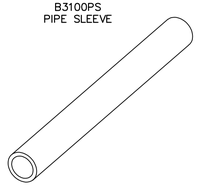
SEISMIC APPROVAL:
TRANSVERSE BRACE ATTACHMENTS

UNDERWRITER'S LABORATORIES LISTED FOR 3/4" (20) THRU 12"(300). COMPLIES WITH FEDERAL SPECIFICATION WW-H-171E TYPE 1 AND MANUFACTURERS' STANDARDIZATION SOCIETY SP-69 TYPE 1.

NOTE: WHEN ATTACHING SEISMIC BRACING TO CLEVIS HANGER, INSTALL A B3100 PIPE SLEEVE OVER THE CROSS BOLT (SEE SEISMIC RESTRAINTS BROCHURE). ORDER B3100PS (PIPE SLEEVE) SEPERATELY.

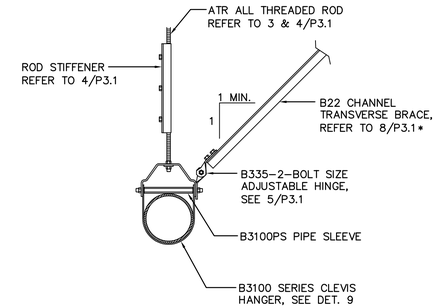
PART NO.	NOMINAL PIPE SIZE IN.	(MM)	ROD SIZE 'A'	DESIGN LOAD LBS.	(KN)
B3100-1/2	1/2"	(15)	3/8"-16	610	(2.71)
B3100-3/4	3/4"	(20)	3/8"-16	610	(2.71)
B3100-1	1"	(25)	3/8"-16	610	(2.71)
B3100-1 1/4	1 1/4"	(32)	3/8"-16	610	(2.71)
B3100-1 1/2	1 1/2"	(40)	3/8"-16	610	(2.71)
B3100-2	2"	(50)	3/8"-16	610	(2.71)
B3100-2 1/2	2 1/2"	(65)	1/2"-13	1130	(5.02)
B3100-3	3"	(80)	1/2"-13	1130	(5.02)
B3100-3 1/2	3 1/2"	(90)	1/2"-13	1130	(5.02)
B3100-4	4"	(100)	5/8"-11	1430	(6.36)
B3100-5	5"	(125)	5/8"-11	1430	(6.36)
B3100-6	6"	(150)	3/4"-10	1940	(8.63)
B3100-8	8"	(200)	7/8"-9	2000	(8.89)
B3100-10	10"	(250)	7/8"-9	3600	(16.01)
B3100-12	12"	(300)	7/8"-9	3770	(16.77)

B3100PS
PIPE SLEEVE



CLEVIS HANGER DETAIL

NOT TO SCALE | 9



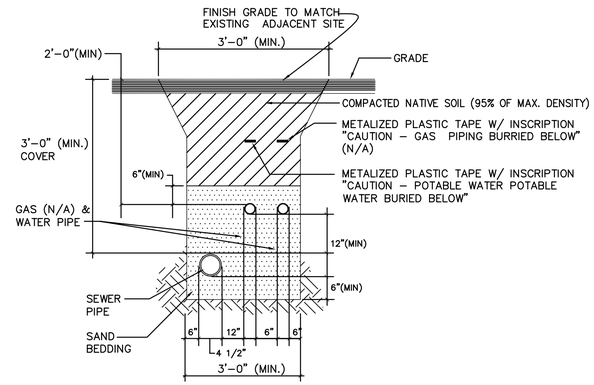
PIPE SIZE IN.	(MM)	CLEVIS HANGER PART NO.	ADJUSTABLE HINGE PART NO.	PIPE SLEEVE PART NO.*
1/2	(15)	B3100-1/2	N/A	N/A
3/4	(20)	B3100-3/4	N/A	N/A
1	(25)	B3100-1	B335-2-3/8	B3100PS-1
1 1/4	(32)	B3100-1 1/4	B335-2-3/8	B3100PS-1 1/4
1 1/2	(40)	B3100-1 1/2	B335-2-3/8	B3100PS-1 1/2
2	(50)	B3100-2	B335-2-3/8	B3100PS-2
2 1/2	(65)	B3100-2 1/2	B335-2-3/8	B3100PS-2 1/2
3	(80)	B3100-3	B335-2-3/8	B3100PS-3
3 1/2	(90)	B3100-3 1/2	B335-2-3/8	B3100PS-3 1/2
4	(100)	B3100-4	B335-2-3/8	B3100PS-4
5	(125)	B3100-5	B335-2-1/2	B3100PS-5
6	(150)	B3100-6	B335-2-1/2	B3100PS-6
8	(200)	B3100-8	B335-2-5/8	B3100PS-8
10	(250)	B3100-10	B335-2-3/4	B3100PS-10
12	(300)	B3100-12	B335-2-3/4	B3100PS-12

* NOT INCLUDED WHEN ORDERING STANDARD B3100 SERIES CLEVIS HANGER.

NOTE: PIPE SLEEVE REQUIRED OVER CROSS BOLT OF CLEVIS HANGER WHEN USING THE BRACE CONNECTION SHOWN ABOVE (FIGURE 1). PIPE SLEEVE IS NOT REQUIRED WHEN CLEVIS HANGER IS USED IN CONJUNCTION WITH THE BRACING SHOWN IN FIGURE 5.

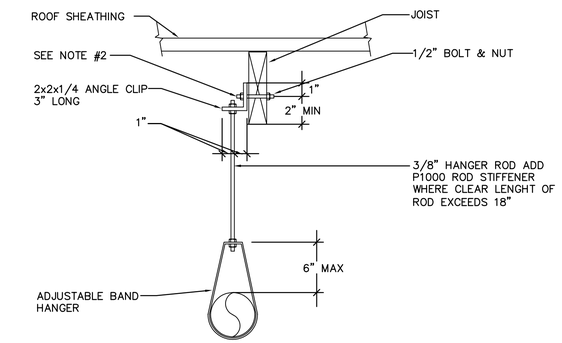
CLEVIS HANGER TRANSVERSE BRACING

NOT TO SCALE | 6



PIPE TRENCH DETAIL

NOT TO SCALE | 2



NOTE:
1. NO BRACING REQUIRED IF PIPING SUSPENDED 12 INCHES OR LESS IN LENGTH.
2. THE LOCATION OF THE THRU BOLT SHALL BE A MINIMUM OF 1 INCH ABOVE THE MID-POINT OF THE BEAM.

PIPE HANGER DETAIL

NOT TO SCALE | 3

P3.1

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. _____ DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

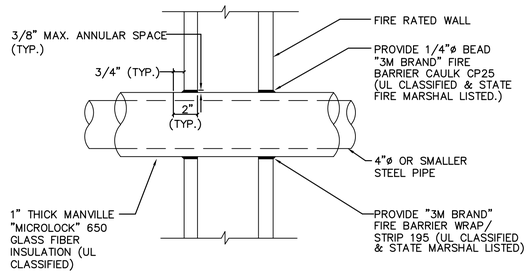
SHEET TITLE:
PLUMBING DETAILS

SHEET: 140 OF 145

BID DELIVERABLE

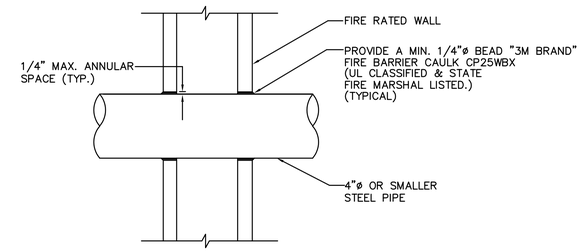
-	NOT TO SCALE	10

-	NOT TO SCALE	7



NOTE:

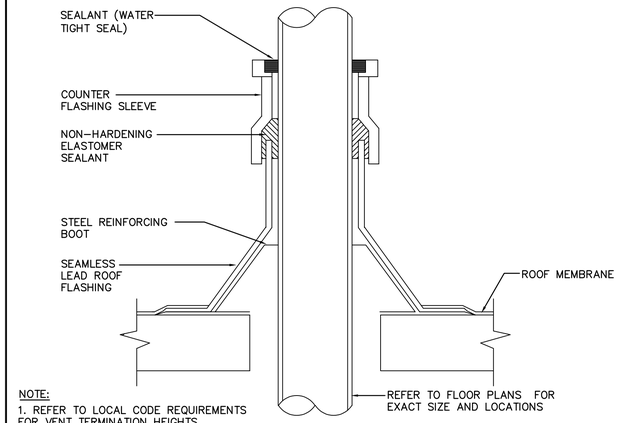
1. INSTALLATION SHALL COMPLY WITH U.L. FIRE RESISTANCE DIRECTORY VOL. 2, PAGE 765, SYSTEM NO. W-L-5001 THRU PENETRATION FIRESTOP SYSTEM.



BARE PIPE THRU FIRE RATED WALL

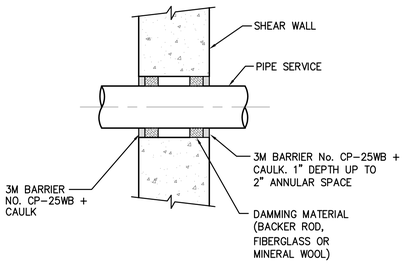
NOTE:

1. INSTALLATION SHALL COMPLY WITH THE U.L. FIRE RESISTANCE DIRECTORY VOL. 2, 1997 EDITION, PAGE 624, SYSTEM NO. W-L-1000 THROUGH PENETRATION FIRE STOP SYSTEM.

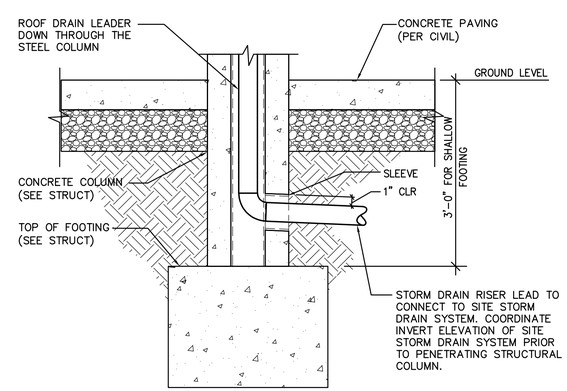


NOTE:
1. REFER TO LOCAL CODE REQUIREMENTS FOR VENT TERMINATION HEIGHTS

PIPE THROUGH ROOF DETAIL | NOT TO SCALE | 1



PIPE PENETRATION THRU CONCRETE WALL | NOT TO SCALE | 2



STORM DRAIN RISER AT COLUMN | NOT TO SCALE | 3 | **P3.2**

-	NOT TO SCALE	12

-	NOT TO SCALE	9

-	NOT TO SCALE	6

-	NOT TO SCALE	11

-	NOT TO SCALE	8

PIPE PENETRATION THRU WALL | NOT TO SCALE | 5

-	NOT TO SCALE	4

-	NOT TO SCALE	1

NO.	BY:	REVISION COMMENTS	
	PBS	BID SET	02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00

PRITAL PATEL, P.E. _____ DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

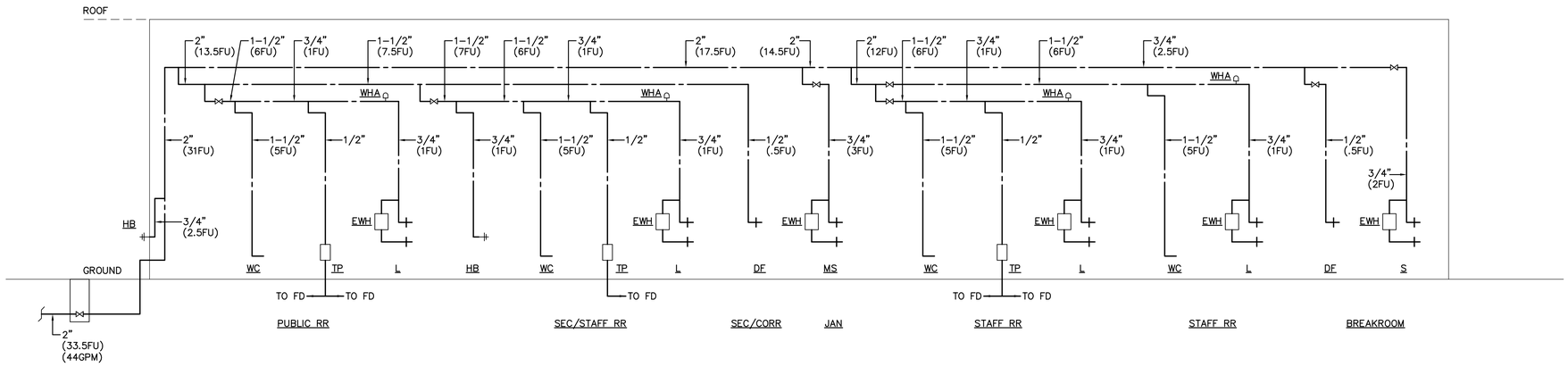
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
PLUMBING DETAILS

SHEET: 141 OF 145

BID DELIVERABLE

Plotted - 2/1/2024 4:08:48 PM :: Saved - 10/1/2021 3:14:04 PM :: P:\P-2021\2021-041-00 ICTC Calexico Transit\10_BIM-CAD\MEP\P3.2.dwg :: kkiliona



REFER TO P0.1 FOR SYSTEM HYDRAULIC CALCULATIONS

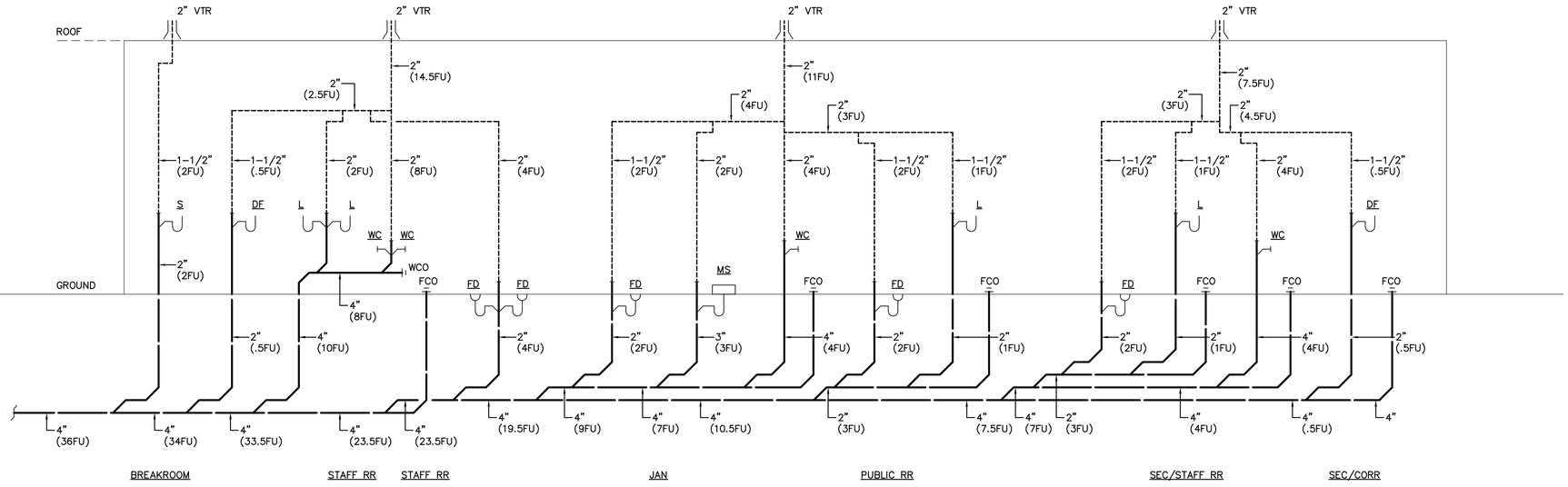
DOMESTIC COLD WATER SIZING

PIPE SIZE	FIXTURE UNITS	
	FLUSH TANK	FLUSH VALVE
1/2"	1	–
3/4"	6	–
1"	15	–
1 1/4"	28	–
1 1/2"	54	13
2"	187	83

PIPE MATERIAL: TYPE L COPPER
MAXIMUM ACCEPTABLE PRESSURE LOSS: 3.5 PSI/100 FT.
MAXIMUM ACCEPTABLE VELOCITY: 5 FT./SEC.

DOMESTIC WATER RISER DIAGRAM

NOT TO SCALE | 1



SANITARY WASTE RISER DIAGRAM

NOT TO SCALE | 2 | P4.1

NO.	BY:	REVISION COMMENTS
	PBS	BID SET 02/01/2024

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
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engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: ENGINEER DATE

SEAL:

APPROVED BY: ENGINEER DATE

ENGINEER OF WORK:
PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2021-041-00
PRITAL PATEL, P.E. DATE

SEAL: REGISTERED PROFESSIONAL ENGINEER PRITAL PATEL M33827 EXP. 06-30-2025 MECHANICAL STATE OF CALIFORNIA

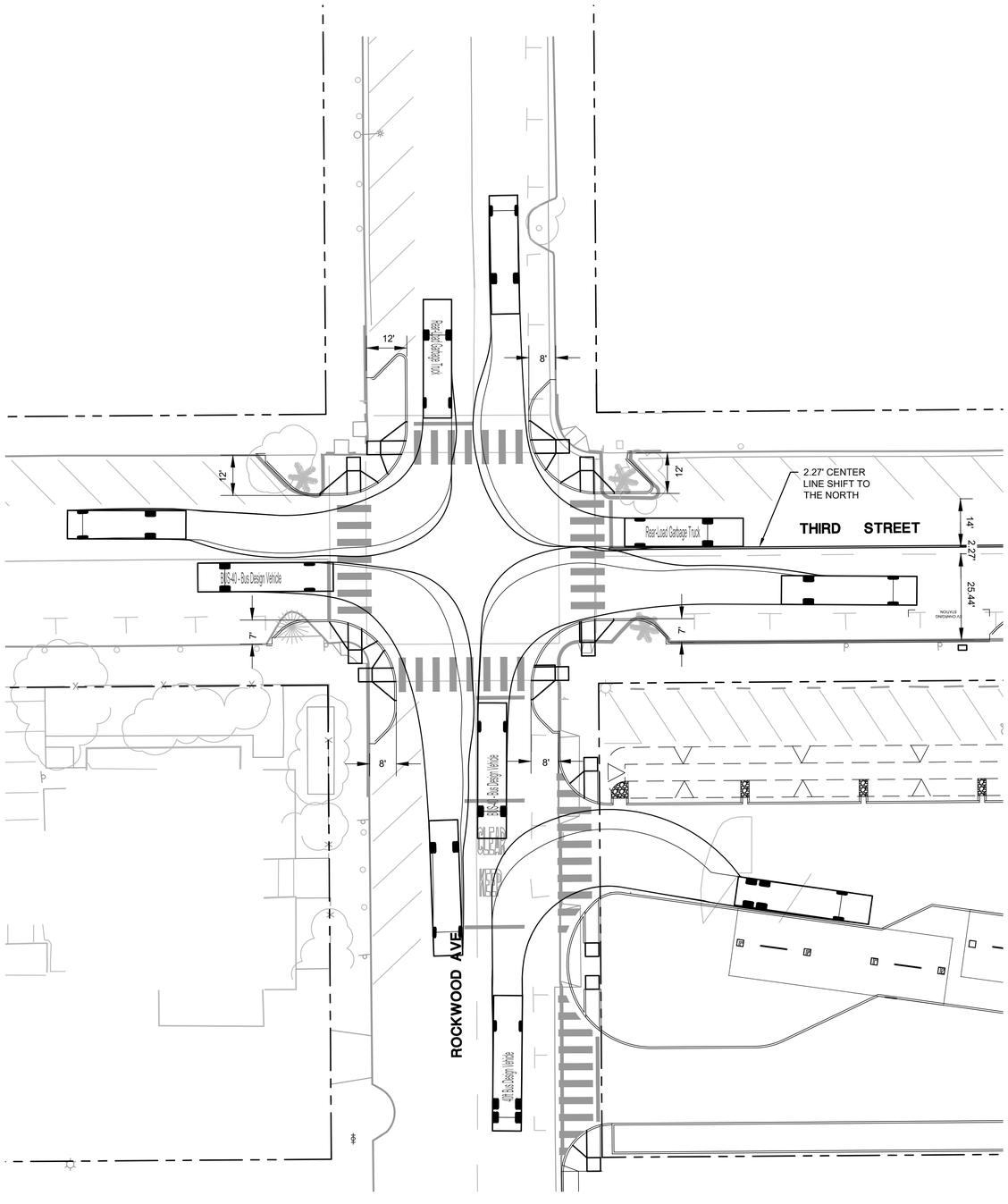
DRAWN BY: PG
CHECK BY: PP/GM
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

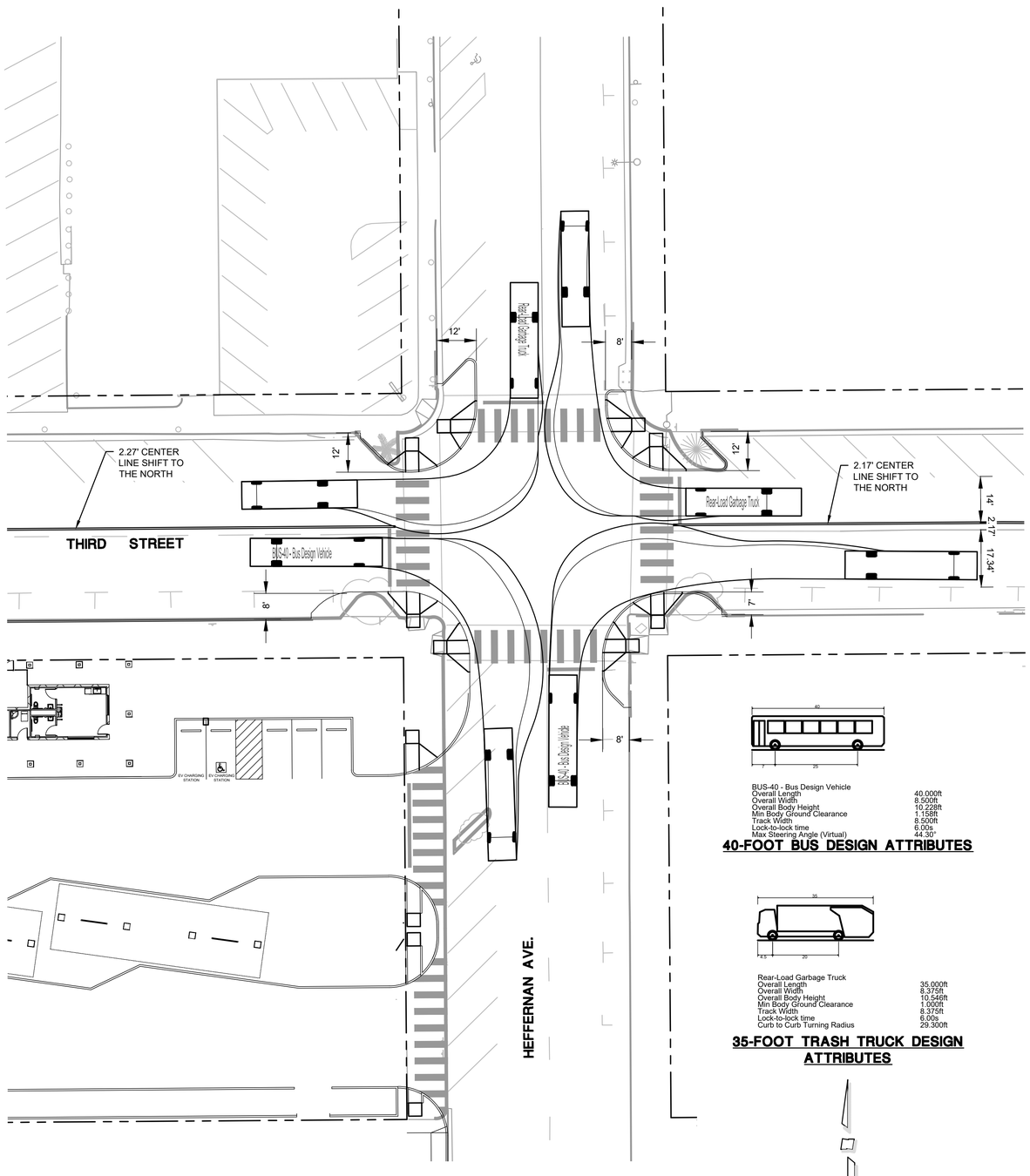
PROJECT DESCRIPTION: CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE: PLUMBING DETAILS

SHEET: 142 OF 145

BID DELIVERABLE



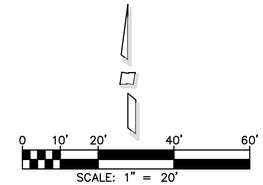


BUS-40 - Bus Design Vehicle	
Overall Length	40.000ft
Overall Width	8.500ft
Overall Body Height	10.228ft
Min Body Ground Clearance	1.158ft
Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	44.30°

40-FOOT BUS DESIGN ATTRIBUTES

Rear-Load Garbage Truck	
Overall Length	35.000ft
Overall Width	8.375ft
Overall Body Height	10.546ft
Min Body Ground Clearance	1.000ft
Track Width	8.375ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	29.300ft

35-FOOT TRASH TRUCK DESIGN ATTRIBUTES



0 10' 20' 40' 60'

SCALE: 1" = 20'

T1.0

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY:

ENGINEER DATE

SEAL:

APPROVED BY:

ENGINEER DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com

JAMES S. BLISS, P.E. DATE

REGISTERED PROFESSIONAL ENGINEER
JAMES S. BLISS
No. 85
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
-31-24

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

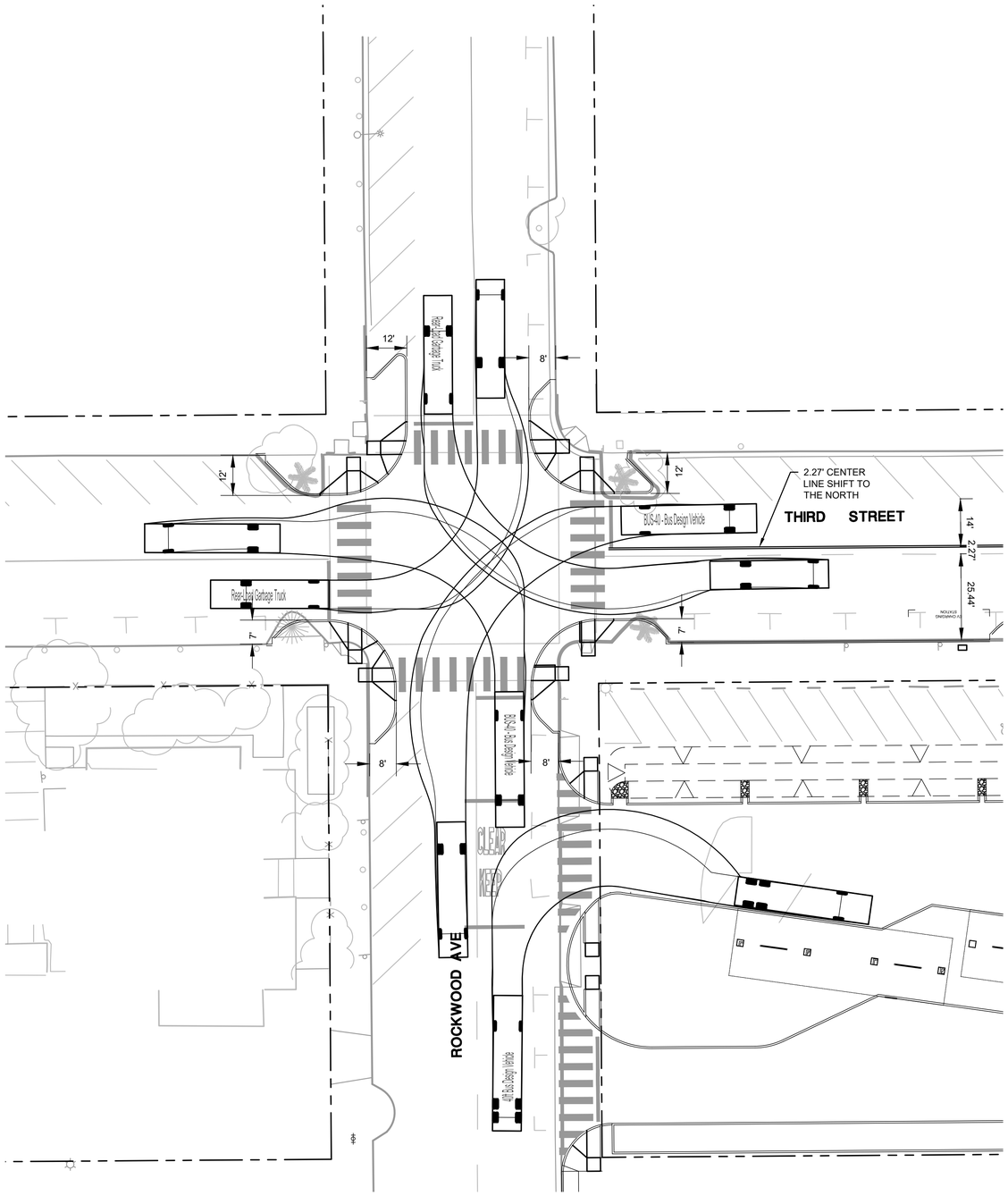
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

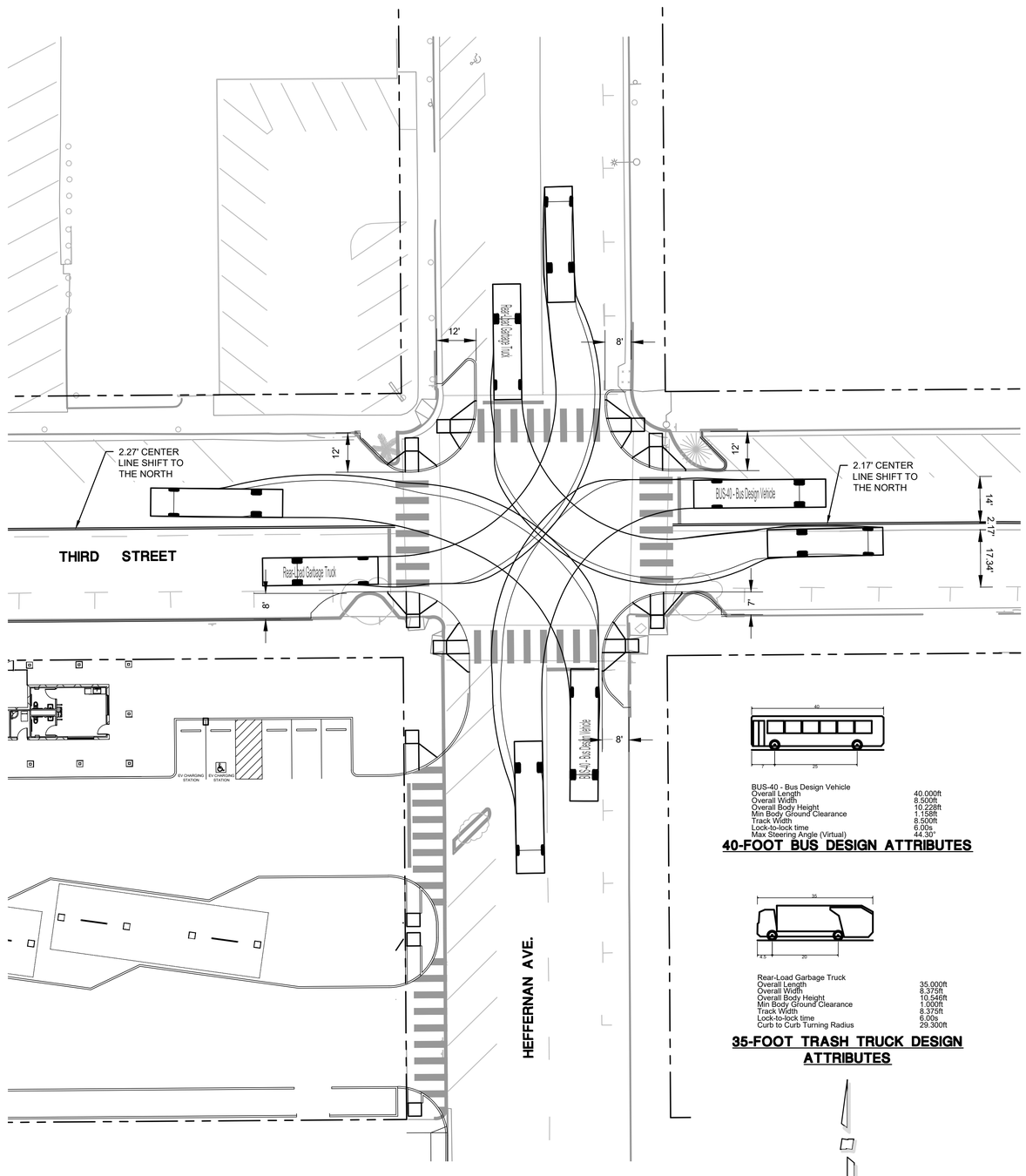
SHEET TITLE:
OFFSITE RIGHT TURNING TEMPLATES (REFERENCE ONLY - NOT FOR CONSTRUCTION)

SHEET: 143 OF 145

BID DELIVERABLE

Plotted: 2/1/2024 2:16:22 PM :: Saved: 1/21/2022 4:34:43 PM :: S:\SMP01010\CADD\Design\Sheets\SMP01010-T1.0-T1.2-TURN_TEMPLATES.dwg :: chase.lawson



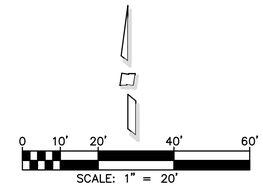


BUS-40 - Bus Design Vehicle	
Overall Length	40.000ft
Overall Width	8.500ft
Overall Body Height	10.228ft
Min Body Ground Clearance	1.158ft
Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	44.30°

40-FOOT BUS DESIGN ATTRIBUTES

Rear-Load Garbage Truck	
Overall Length	35.000ft
Overall Width	8.375ft
Overall Body Height	10.546ft
Min Body Ground Clearance	1.000ft
Track Width	8.375ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	29.300ft

35-FOOT TRASH TRUCK DESIGN ATTRIBUTES



SCALE: 1" = 20'

T1.1

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY:
ENGINEER DATE

SEAL:

APPROVED BY:
ENGINEER DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com
JAMES S. BLISS, P.E. DATE

REGISTERED PROFESSIONAL ENGINEER
JAMES S. BLISS
No. 25
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION
-31-24

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

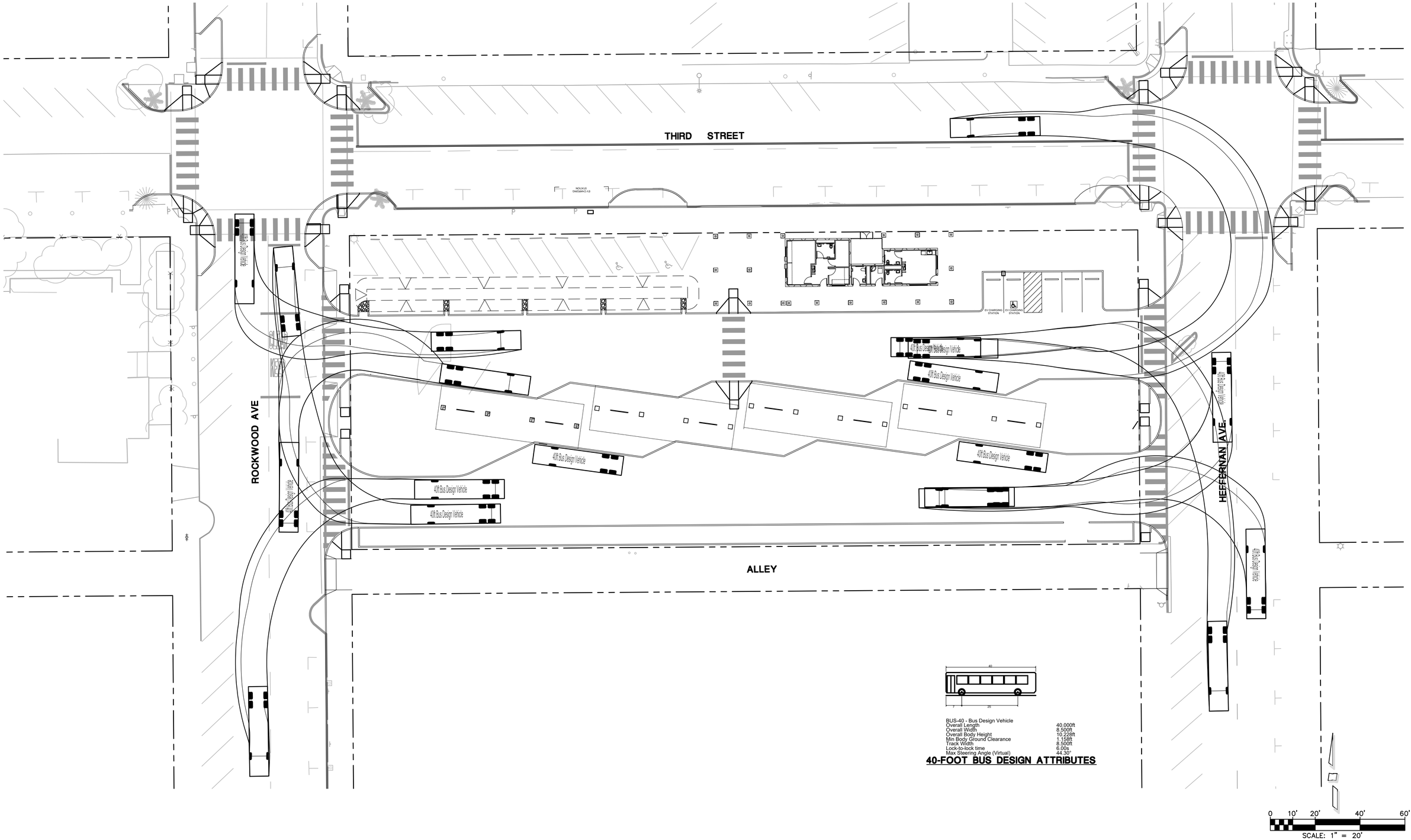
PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
OFFSITE LEFT TURNING TEMPLATES (REFERENCE ONLY - NOT FOR CONSTRUCTION)

SHEET: 144 OF 145

BID DELIVERABLE

Plotted: 2/1/2024 2:16:47 PM :: Saved: 1/21/2022 4:34:43 PM :: S:\SMP01010\CADD\Design\Sheets\SMP0101001-T1.0-T1.2-TURN_TEMPLATES.dwg :: chase.lawson



BUS-40 - Bus Design Vehicle

Overall Length	40.000ft
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Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	44.30°

40-FOOT BUS DESIGN ATTRIBUTES

0 10' 20' 40' 60'

SCALE: 1" = 20'

T1.2

NO.	BY:	REVISION COMMENTS

CITY OF CALEXICO
COMMUNITY DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION
608 Heber Avenue • Calexico, CA 92231 • Tel: 760.768.2100 • Fax: 760.768.0854
engineering@calexico.ca.gov • www.calexico.ca.gov

APPROVED BY: _____ ENGINEER _____ DATE

SEAL:

APPROVED BY: _____ ENGINEER _____ DATE

ENGINEER OF WORK:
PSOMAS
401 B Street, Suite 1600
San Diego, CA 92101
(619) 961-2800
www.psomas.com

JAMES S. BLISS, P.E. _____ DATE

REGISTERED PROFESSIONAL ENGINEER JAMES S. BLISS No. 45 CIVIL STATE OF CALIFORNIA NOT FOR CONSTRUCTION 3-31-24

DRAWN BY: CRL
CHECK BY: JSB
DATE: 02/01/24
PROJECT: ICTC
FILE NAME:
LAST REVISED:

PROJECT DESCRIPTION:
CALEXICO INTERMODAL TRANSIT CENTER

SHEET TITLE:
ONSITE TURNING TEMPLATES (REFERENCE ONLY - NOT FOR CONSTRUCTION)

SHEET: 145 OF 145

BID DELIVERABLE

Plotted: 2/1/2024 2:17:06 PM :: Saved: 3/21/2022 4:34:43 PM :: S:\SMP0101001\CADD\Design\Sheets\SMP0101001-T1.0-T1.2-TURN_TEMPLATES.dwg :: chase.lawson