

SSH JV

Milpitas Station Design Unit 023 Readiness for Construction Structural

SVBX C700

Wednesday, July 10, 2013

HALF SIZE COPY





NOTES FOR STATION BUILDING

- GENERAL
 - A. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CALIFORNIA BUILDING CODE (CBC) 2010 AND TO BART FACILITIES STANDARDS (BFS) DESIGN CRITERIA AND SPECIFICATION, WHICHEVER IS MORE STRINGENT.
 - B. INTENT: IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR.
 - C. NO BACKFILL AT/OR BELOW GRADE WALLS UNTIL TOP AND BOTTOM SLABS AS REQUIRED HAVE BEEN POURED AND ACHIEVED THEIR DESIGN STRENGTH. OTHERWISE, WALLS SHALL BE SECURELY BRACED TO CARRY CONSTRUCTION LOADS. RETAIN LICENSED PROFESSIONAL ENGINEER FOR THE DESIGN OF SUCH REQUIRED BRACING.
 - D. DO NOT USE SCALED DIMENSIONS. USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT WITH THE CONSTRUCTION MANAGER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK
 - E. SITE VISITS BY THE STRUCTURAL ENGINEER, SHALL NOT BE CONSTRUED AS SPECIAL INSPECTIONS, AS DEFINED BY THE 2010 CBC.
 - F. COORDINATE ALL INFORMATION RELATED TO EDGE OF SLAB, CURBS AND DEPRESSIONS WITH ARCHITECTURAL AND CIVIL DRAWINGS. SEE DRAWINGS OTHER THAN STRUCTURAL FOR KINDS OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS. REQUIRED BY ARCHITECTURAL AND MECHANICAL, CIVIL FEATURES, WALKS, RAMPS, STAIRS, CURBS, ETC. TYPICAL EDGE OF STRUCTURE SLAB IS SHOWN STRUCTURAL DRAWINGS. COORDINATE LOCATIONS, DIMENSIONS AND ON THE ELEVATIONS WITH EXTERIOR SKIN DETAILS. FOR DETAILS, LOCATIONS AND QUANTITIES OF MISC. INSERTS AND OTHER EMBEDDED ITEMS CAST IN THE WALLS AND SLABS REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING & FLECTRICAL DRAWINGS.
 - G. COORDINATE ALL FLEVATOR STAIR OPENINGS WITH ARCHITECTURAL DRAWINGS. COORDINATE ALL ELEVATOR DETAILS WITH REQUIREMENTS OF ELEVATOR SUPPLIER'S DRAWINGS. PROVIDE ALL SEPARATOR BEAMS, MACHINE ROOM BEAMS, MACHINE ROOM EQUIPMENT SUPPORT BEAMS, EMBEDDED ITEMS SHOWN ON THESE PLANS AND LOCATE IN COORDINATION WITH ELEVATOR SUPPLIER'S

H. IN CASE OF CONFLICT AMONG STRUCTURAL DRAWINGS OR BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT GOVERNS.

- 2. BASIS OF DESIGN
 - A. BART FACILITIES STANDARDS, RELEASE 2.1
 - B. BART FACILITIES DESIGN CRITERIA, RELEASE 2.
 - C. BART STANDARD PLANS, RELEASE 2.1
 - D. BART FACILITIES SPECIFICATIONS, RELEASE 2.1
 - E. CALTRANS BRIDGE DESIGN SPECIFICATION MANUAL APRIL 2000 (WITH UPDATES THROUGH MAY 2004)
 - F. CALIFORNIA BUILDING CODE, 2010 AND ASCE 7-05
 - AMERICAN CONCRETE INSTITUTE, BUILDING CODE AND COMMENTARY, 318-08
 - H. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 13th EDITION.
 - AMERICAN WELDING SOCIETY: ANSI/AWS D1.1:2010 AND D1.3:2008
 - AMERICAN CONCRETE INSTITUTE, CODE REQUIREMENTS FOR ENVIRONMENT ENGINEERING CONCRETE STRUCTURE (ACI 350-06)
- 3. EXISTING CONDITIONS

FIELD VERIFY EXISTING CONDITIONS PERTINENT TO THE WORK PRIOR TO MATERIAL FABRICATION AND/OR CONSTRUCTION. FIELD CONDITIONS DIFFERENT FROM THOSE NOTED ON THE CONSTRUCTION DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE VTA. ITEMS TO BE FIELD VERIFIED INCLUDE BUT ARE NOT LIMITED TO:

- A. LOCATION, DIMENSIONS, AND ELEVATIONS OF EXISTING STRUCTURES, STRUCTURAL ELEMENTS, EQUIPMENT AND UTILITIES, WHICH HAVE BEEN SHOWN AS REFERENCE ON THE DRAWINGS AND MAY AFFECT NEW
- B. HORIZONTAL AND VERTICAL CLEARANCES.
- HORIZONTAL AND VERTICAL TIE-IN POINTS.

4. DESIGN LOADS

A. LIVE LOAD- CONCOURSE (NO REDUCTION ALLOWED)

1.	100 PSF	STATION CONCOURSE PUBLIC AREAS [CASH CARTS]—350 POUNDS PER WHEEL
2.	150 PSF	TRAIN CONTROL/COMM ROOM & STAIRS
3.	350 PSF	TRANSFORMER ROOM AND EMERGENCY GENERATOR ROOM
4.	150 PSF	ELECTRICAL EQUIPMENT, TRASH, HVAC, TC/C BATTERY, TELCOMM, BATTERY & VALVE ROOMS
5.	150 PSF	SMOKE CONTROL FAN ROOM
6.	100 PSF	STORAGE (LIGHT)

TWO 1500 LBS LOADS 3 FEET APART B. LIVE LOAD- MILPITAS BLVD. EXTENSION BRIDGE

7. MAINTENANCE VEHICLE LOADING:

- 1. ASHTO HS 20-44
- C. LIVE LOAD-PLATFORM (NO REDUCTION ALLOWED)

1.	100 PSF	STATION PLATFORM PUBLIC AREAS,
		STAIRS AND STORAGE ROOMS.
2.	150 PSF	ESCALATOR CONTROL ROOM.

- 3. 350 PSF ELECTRICAL, MECHANICAL AND ELEVATOR MACHINE ROOMS.
- 4. MAINTENANCE VEHICLE LOADING: TWO 1500 LBS LOADS 3 FEET APART
- D. LIVE LOAD-ROOF (REDUCIBLE PER PROVISIONS OF CBC)
- 1. 20 PSF STATION ROOF AND ENTRANCE ROOF 2. 1000 LBS LOAD ANYWHERE ON ROOF MEMBER
- E. LATERAL LOAD-SEISMIC PER CBC 2010/ASCE 7-05: SITE LOCATION IS AT LATITUDE = 37.4° N, LONGITUDE = 121.9° W. SITE CLASS IS D.

 $V = Cs \cdot W$ SEISMIC DESIGN CATEGORY D STEEL SPECIAL CONCENTRICALLY BRACED FRAME Cs=0.25

Ss=1.5 S1=0.60 Sds=1.00 Sd1=0.60 R=6.0 I=1.50

MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

 $V = Cs \cdot W$ SEISMIC DESIGN CATEGORY D STEEL SPECIAL MOMENT FRAMES Cs=0.25

Ss=1.50 S1=0.60 Sd1 = 0.601.50

F. LATERAL LOAD-WIND PER CBC 2010/ASCE 7-05 P = qGCp-qi(GCpi)BASIC WIND SPEED 85 MPH EXPOSURE C lw = 1.15

G. ACCELERATED RESPONSE SPECTRUM CURVE 2005 MODIFIED WAS USED IN PERFORMING DYNAMIC ANALYSIS FOR THE SUPERSTRUCTURE. MODAL RESPONSE SPECTRUM ANALYSIS PER ASCE 7-05, SECTION 12.9

FOUNDATIONS

1. REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY PARIKH CONSULTANTS, INC. DATED MARCH 25, 2013 FOR DESIGN SOIL PROPERTIES, DESIGN RECOMMENDATIONS FIELD DATA, SITE PREPARATION, AND LABORATORY TESTS OF THE SOILS. GEOTECHNICAL CONSULTANT SHALL OBSERVE ALL SITE WORK & FOUNDATION PHASES OF CONSTRUCTION FOR CONFORMANCE TO CONDITIONS & RECOMMENDATIONS CONTAINED WITHIN THE SOIL REPORT.

2. SOIL BEARING CAPACITIES

DEAD AND LIVE LOADS

PSF FOR MAT FOUNDATION

TOTAL LOADS INCLUDING WIND OR SEISMIC LOADS

SUBMITTED

2333 PSF FOR SPREAD FOOTING PSF FOR MAT FOUNDATION

COEFFICIENT OF FRICTION 0.35 BETWEEN FIRM SOIL AND CONCRETE FOOTINGS

> Skanska Shimmick

1436 California Circle Milpitas, California 95035



PRESSURE PRESSURE ABOVE **BELOW** RETAINING WALL CONDITION GROUNDWATER GROUNDWATER EQUIVALENT FLUID PRESSURE

FOR UNRESTRAINED RETAINING 46 23 FQUIVALENT FLUID PRESSURE FOR RESTRAINED RETAINING 46

- 4. SHORE ALL EXCAVATIONS AS REQUIRED TO PREVENT SUBSIDENCE OR DAMAGE TO ADJACENT EXISTING STRUCTURES, STREETS, UTILITIES, ETC. RETAIN PROFESSIONAL ENGINEERING CONSULTANTS FOR THE DESIGN OF ALL SHORING.
- 5. UTILITY OR PLUMBING LINES SHALL NOT BE PLACED THROUGH OR BELOW MAT SLAB OR FOOTING FOUNDATIONS WITHOUT THE EOR'S APPROVAL.
- 6. DYNAMIC SOIL STRUCTURE INTERACTION ANALYSIS, "RACKING ANALYSIS" WAS PERFORMED BASED ON REPORT BY M2 CONSULTANTS, INC. DATED 4.30.2013 PREPARED FOR PARIKH CONSULTANTS, INC.

CONCRETE

3. LATERAL EARTH PRESSURES

- 1. PER 2010 CBC, CHAPTER 19, GENERAL, SECTION 1901.2 GENERAL REQUIREMENTS, ALL CONCRETE STRUCTURES SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS PER CHAPTER 19 AND THE ADDITIONAL REQUIREMENTS IN ACI 318 AS AMENDED IN SECTION 1908. ACI 350-06 REQUIREMENTS SHALL BE APPLICABLE TO RETAINING WALLS & MAT FOUNDATION.
- 2. ALL CAST-IN-PLACE CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH f'c AS FOLLOW U.N.O.:

MAT FOUNDATION, WALLS 4,500 PSI - SLABS, BEAMS 4.000 PSI - COLUMNS 5,000 PSI

REFER TO SPECIFICATION SECTION 03 30 00. THE CONCRETE MIX SHALL BE PROPORTIONED AND DOCUMENTED IN ACCORDANCE WITH SPECIFIED

- 3. CEMENT SHALL BE PORTLAND CEMENT, ASTM C150 AND SHALL BE COMPOSED OF APPROVED MIX DESIGN WITH TYPE II/V CEMENT & A WATER/CEMENT RATIO < 0.40
- 4. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A706, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SUBMIT A REPORT OF MATERIAL PROPERTIES NECESSARY TO CONFORM TO SPECIFICATION REQUIREMENTS.
- 5. ALL REINFORCING LAP SPLICES SHALL CONFORM TO ACI CLASS B SPLICES. REFER TO 1/DB-S773 FOR LAPS SPLICE LENGTHS. STAGGER ALL LAP SPLICES IN ADJACENT BARS MINIMUM OF 24" OR ONE LAP LENGTH.
- 6. ALL MECHANICAL SPLICE COUPLER SHALL BE PER SPECIFICATION 03 20 00
- TYPICAL CONCRETE FINISHES: SEE SPECIFICATION SECTION 03 35 00 AND ARCHITECTURAL DRAWINGS.
- 8. MINIMUM CONCRETE COVER OVER REINFORCEMENT STEEL SHALL BE PER ACI 318-08 EXCEPT FOR THE MAT FOUNDATION & RETAINING WALLS CONCRETE COVER SHALL BF PFR ACL 350-06.
- 9. ADMIXTURES TO BE USED IN CONCRETE SHALL BE PER SPECIFICATION SECTION 03 05 15
- 10. CONCRETE SHALL BE PROPORTIONED TO PROVIDE REQUIRED AVERAGE COMPRESSIVE STRENGTH I'C AS PRESCRIBED IN NOTE 2 ABOVE. CONCRETE SHALL BE PER SPECIFICATION SECTION 03 05 15
- 11. BACKFILL SLURRY PER SPEC SECTION 31 23 25
- 1750 PSF FOR SPREAD FOOTING 12. CONCRETE DENSITY SHALL BE A MINIMUM OF 150 PCF EXCEPT FOR THE MAT FOUNDATION (INVERT SLAB), RETAINING WALL, PLATFORM FRAMING, CONCOURSE FRAMING, CONCRETE STAIRS NUMBERS 1 & 2, CONCRETE COLUMNS BELOW CONCOURSE LEVEL
 - 13. REFER TO MASS CONCRETE REQUIREMENTS IN SPECIFICATION 03 05 15.

CONCRETE FORMWORK

1. CONCRETE FORMWORK SHALL COMPLY WITH SPECIFICATIONS 03 11 14 "CONCRETE FORMWORK"

STRUCTURAL STEEL

- PER 2010 CBC, STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2205.1 AND 2205.2
- 2. ALL BEAMS (W SHAPES) SHALL BE ASTM A992 GRADE 50.
- 3. ALL COLUMNS (W SHAPES) SHALL BE ASTM A992 GRADE 50, UNLESS OTHERWISE NOTED.
- 4. STRUCTURAL STEEL OTHER THAN BEAMS AND COLUMNS SHALL CONFORM TO ASTM A572, GRADE 50 UNLESS NOTED OTHERWISE. RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B, Fy=46 KSI. ROUND HSS SHALL CONFORM TO ASTM A500, GRADE B, Fy=42 KSI. ALL PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B, Fy=35 KSI. SCHEDULE 40 DESIGNATES STANDARD PIPE, SCHEDULE 80 GRADE B, Fy=35 KSI. SCHEDULE DESIGNATES EXTRA STRONG PIPE.
- 5. ALL CONNECTING AND HORIZONTAL STIFFENER PLATES AT BEAM-TO-COLUMN CONNECTIONS, GUSSET AND STIFFENER PLATES ON GRADE 50 BEAMS AND COLUMN BASE PLATES SHALL BE
- 6. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN 13TH EDITION.
- 7. UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE 7/8" DIAMETER HIGH STRENGTH BOLTS. ALL A325 BOLTS SHALL BE TYPE 3. THE BOLT TIGHTENING FOR ALL A325 BOLTS IN ALL BEAM TO COLUMN AND BEAM TO BEAM CONNECTIONS SHALL PROVIDE BOLT TENSIONING AS PRETENSIONED JOINT. ALL BOLTS IN MOMENT AND BRACE CONNECTIONS SHALL HAVE MINIMUN CLASS A FAYING SURFACE. ASTM A325 TYPE 3 BOLTS MAY BE REPLACED WITH ASTM F1852 TYPE 3 BOLTS.MACHINE BOLTS (MB) SHALL CONFORM TO ASTM A307.
- 8. ALL WELDS SHALL CONFORM TO SPECIFICATION SECTION 05 05 22.
- 9. FOR SURFACE PREPARATION OF SLIP CRITICAL BOLTED CONNECTION (FAYING SURFACE CLASS A OR BETTER) AND STEEL MEMBERS ENCASED IN CONCRETE, SEE SPEC SECTION 05 12 00
- 10. ALL ANCHOR BOLTS (AB) SHALL CONFORM TO ASTM F1554 GRADE 36 U.N.O., SEE PLANS & DETAILS. NUTS AND WASHERS SHALL BE PER ASTM A563 GRADE A AND F436 TYPE 1. RESPECTIVELY.
- 11. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO FABRICATION.
- 12. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE APPROVED STRUCTURAL DRAWINGS, IT SHALL BE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST APPROVED STRUCTURAL DRAWINGS.
- 13. ALL BEAMS SHALL BE MANUFACTURED WITHIN THE CAMBER, SWEEP, DEPTH, AND WIDTH TOLERANCE PERMITTED BY A.I.S.C. SPECIFICATION FOR STANDARD MILL TOLERANCE.
- 14. DRILLING (CUTTING. PUNCHING, ETC.) OF HOLES IN BEAM FLANGES IS NOT PERMITTED FOR ANY PURPOSE. SUPPORT METHOD FOR SUSPENDED EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT, ETC.) SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
- 15. PENETRATION THROUGH WEBS OF COLUMNS, BEAMS, OR BRACES OF BRACED FRAMES IS NOT PERMITTED, WITHOUT WRITTEN PERMIT APPROVAL BY STRUCTURAL EOR.

STEEL DECKING

- 1. METAL DECK SHALL BE PER SPECIFICATION SECTION 05 30 00
- ROOF DECKING MARK D1 SHALL BE CONSOLIDATED SYSTEMS, INC OR APPROVED EQUAL, Fy=40 KSI PROPERTIES OF METAL DECK SHALL BE AS GIVEN IN ICC REPORT NRO FSR-2657 DATED MARCH 1, 2013.
- ROOF DECKING MARK D2 & FLOOR DECKING MARK D3 SHALL BE VERCO OR APPROVED EQUAL & SHALL BE GALVANIZED, Fy=38 KSI, DECK SHALL BE AS GIVEN IN ICC REPORT NRO ESR-1735P DATED MARCH 1, 2011.
- ALL SHORING OF METAL DECK SHALL BE PER MANUFACTURER'S REQUIREMENT.
- STEEL DECK SUPPORT SHALL BE AS FOLLOWS: SEE SCHEDULE A/DB-S781
- THE STEEL DECK SHALL BE CONTINUOUS FOR 3 SPANS MINIMUM, WHENEVER POSSIBLE.
- SEE SPECIFICATION SECTION 05 30 00 FOR COATING OF METAL DECK.
- DECKS SHALL HAVE A MINIMUM BEARING OF 2" AT ALL SUPPORTS.
- ALL SCREWS ATTACHING ELEMENTS TO ROOF METAL DECK, SHALL BE LOCATED IN THE UPPER PROFILE OF THE METAL DECK, IN ORDER TO MINIMIZE THE VISUAL IMPACT OF SCREWS.

0 20130710 READINESS FOR CONSTRUCTION VI. TARAZI 0 20130531 READINESS FOR CONSTRUCTION IN CHARGE M. TARAZI EPLACED C700-S-DB-S001 REV F REV DATE BY SUB APP 20130710





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LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION STRUCTURAL GENERAL NOTES

SHEET 1 OF 3

C700-S-DB-S001X.dwg SIZE SCALE CONTRACT NO C700 DB | S001X | 0134

MASONRY

- MASONRY UNITS TO CONFORM TO ASTM C90 GRADE N, TYPE I, LIGHT WEIGHT UNITS. DESIGN COMPRESSIVE STRENGTH OF MASONRY f'm=1500 PSI, TYP.
- 2. MORTAR TO CONFORM TO ASTM C270, TYPE S AND 2010 CBC REQUIREMENTS WITH MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI. DO NOT USE PLASTIC CEMENT AND DO NOT USE MASONRY CEMENT IN THE MORTAR MIXTURE.
- 3. GROUT TO CONFORM TO ASTM C476 AND 2010 CBC REQUIREMENTS WITH A MINIMUM COMPRESSIVE STRENGTH EQUAL TO OR GREATER THAN THE CONCRETE MASONRY UNIT STRENGTH, BUT NOT LESS THAN 2500 PSI.
- 4. ALL MASONRY UNITS TO BE GROUTED SOLID.
- 5. REFER TO SPECIFICATION 04 22 00 FOR OTHER REQUIREMENTS.

SPECIAL INSPECTIONS: (SEE ALSO DB-S003X)

- . GENERAL: IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 108.4.4, OF THE 2010 CBC TITLE 24, PART 2, VOLUME 1 OF 2 THE OWNER SHALL EMPLOY PROJECT INSPECTOR AND/OR ONE OR MORE SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704 OF THE 2010 CBC.
- SPECIAL INSPECTOR: THE SPECIAL INSPECTORS SHALL BE QUALIFIED PERSONS WHO SHALL DEMONSTRATE COMPETENCE, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTORS: THE SPECIAL INSPECTORS SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

THE SPECIAL INSPECTORS SHALL SUBMIT INSPECTION REPORTS TO, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY.

THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THIS CODE.

- 4. STANDARDS OF QUALITY: THE REFERENCED STANDARDS LISTED IN CHAPTER 35, PART 2 AND ARE PART OF THIS CODE.
- 5. EXCEPT AS PROVIDED IN SECTION 1704, THE TYPES OF WORK LISTED BELOW, SHALL BE INSPECTED BY A SPECIAL INSPECTOR/PROJECT INSPECTOR.
- a. CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.
- b. BOLTS INSTALLED IN CONCRETE SHALL BE PER REQUIREMENTS OF SECTIONS 1911 AND 1912 OR TABLE 1911.2
- c. STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED.
- d. REINFORCING STEEL: SPECIAL INSPECTOR REQUIRED

-DURING PLACING OF REINFORCING STEEL FOR ALL CONCRETE REQUIRED TO HAVE SPECIAL INSPECTION BY ITEM 1.

POWER ACTUATED FASTENERS

- POWER ACTUATED FASTENERS SHALL BE OF THE TYPE AND SIZE CALLED FOR ON THE DRAWINGS AND IN THE SPECIFICATIONS.
- . POWER ACTUATED FASTENERS SHALL BE PLACED A MINIMUM OF 3" FROM ANY CONCRETE EDGE AND 1/2" FROM ANY STEEL EDGE. MINIMUM SPACING SHALL BE 4" IN CONCRETE AND 1/2" IN STEEL.
- 3. WHEN USED TO CONNECT ELEMENT TO STEEL MEMBERS, THE POINT OF THE POWER ACTUATED FASTENERS SHALL COMPLETELY PENETRATE THE THICKNESS OF THE BASE METAL.
- 4. POWER ACTUATED FASTENERS SHALL BE INSTALLED WITH STRICT ADHERENCE TO ALL MANUFACTURERS SPECIFIACTIONS.
- 5. USE ICC EVALUATION REPORT #2269 FOR POWER ACTUATED
- POWER ACTUATED FASTENERS SHALL BE USED ONLY FOR CONNECTION NON-STRUCTURAL ELEMENTS AND NON-LOAD BEARING STUD WALLS.

DEFERRED SUBMITTALS:

CONNECTION CALCULATIONS AND DRAWINGS OF MECHANICAL EQUIPMENT TO SUPPORTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATION. CALCULATIONS AND DRAWINGS SHALL BE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL/STRUCTURAL FINGINFER

SUBMITTALS

- 1. SHOP DRAWINGS, INCLUDING CONCRETE MIX DESIGNS, REQUIRED BY THE SPECIFICATIONS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD (EOR) FOR REVIEW PRIOR TO FABRICATION OF THE ITEMS. A SCHEDULE FOR SUBMITTAL OF SHOP DRAWINGS SHALL BE PREPARED AND REVIEWED BY THE ARCHITECT AND STRUCTURAL EOR PRIOR TO THE START OF FABRICATION. THE SCHEDULE SHALL PROPORTION THE QUANTITY OF SHOP DRAWINGS TO BE REVIEWED IN EACH SUBMITTAL TO ALLOW SUFFICIENT TIME, AS DEEMED REASONABLE IN THE PROFESSIONAL JUDGEMENT OF THE ARCHITECT AND STRUCTURAL ENGINEER, TO PERMIT ADEQUATE REVIEW.
- 2. SHOP DRAWINGS SHALL INDICATE THE DATE OR REVISION(S) FROM WHICH THE DRAWINGS WERE PREPARED. SUBMITTALS THAT DO NOT IDENTIFY THE LATEST DATE OR REVISION SHALL BE RETURNED WITHOUT REVIEW. ONLY SHOP DRAWINGS THAT ARE COMPLETE WILL BE ACCEPTED FOR REVIEW.
- 3. SHOP DRAWINGS AND CONCRETE MIX DESIGNS WILL NOT BE ACCEPTED DIRECTLY FROM SUBCONTRACTORS. SHOP DRAWINGS AND CONCRETE MIX DESIGNS WILL BE ACCEPTED ONLY AFTER BEING REVIEWED AND SIGNED BY THE CONTRACTOR QUALITY CONTROL, INDICATING COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. SHOP DRAWINGS AND CONCRETE MIX DESIGNS NOT COMPLYING WITH THE REQUIREMENTS NOTED ABOVE OR IN THE SPECIFICATIONS WILL BE RETURNED WITHOUT REVIEW.
- 4. SUBMIT TWO (2) SETS OF 11x17 SHOP DRAWINGS. ONE SET WILL BE RETURNED AFTER STRUCTURAL REVIEW.
- 5. IF, AFTER REVIEW, THE SHOP DRAWINGS ARE NOTED AS REVISE AND RESUBMIT, THE RESUBMITTED SHOP DRAWINGS SHALL IDENTIFY EACH REVISION AND/OR ADDITION BY CLOUD OR OTHER MEANS TO ASSURE PROPER REVIEW.

STRUCTURAL ABBREVIATIONS:

STR	UCTURAL ABBREVIATION	<u>IS:</u>	
® APCH ® APCH PROPERTY OF THE PROPERTY OF T	CONNECTION CONTINUOUS DEFORMED BAR ANCHOR DETAIL DIAMETER DIAMETER DIAGONAL DIMENSION DRAWING EXISTING EACH EACH FACE EAST—WEST DEMBEDMENT ENGINEER OF RECORD EXPANSION JOINT ELEVATOR EQUIPMENT EACH SIDE ESCALATOR EACH WAY EXTERIOR FACE OF MASONRY FACE OF MASONRY FACE OF CONCRETE FOOTING FAR SIDE GAUGE GALVANIZED HORIZONTAL HOLLOW STRUCT SECTION INFORMATION JOINT(S) KIPS PER SQUARE INCH POUNDS MAXIMUM	MISCL S# MISCL SH OOH DP PSI FFC S REEV FOR SSAM SC FFD OF FC FFC FFC FFC FFC FFC FFC F	MINIMUM MISCELLANEOUS METAL NEAR SIDE NORTH—SOUTH NUMBER ON CENTER OPPOSITE HAND OPENING OPPOSITE PLATE PREFORMED JOINT FILLER POUNDS PER SQUARE INCH POUNDS PER SQUARE FOOT PEDESTRIAN OVER CROSSING PRESTRESSED RADIUS REFERENCE REINFORCED REQUIRED REVISIONS SCHEDULE SQUARED FEET SLAB ON GRADE SEE ARCHITECTURE DRAWINGS SIMILAR SHEET METAL SCREW SPECIFICATION STEEL STIFFENER TEMPERATURE THICK TOP OF TOP OF CONCRETE TOP OF STEEL TYPICAL UNLESS OTHERWISE NOTED VERTICAL VERTICAL SLOTTED HOLES WITH WEIGHT WORK POINT WATERPROOF SPECIFIED COMPRESSIVE STRENGTH OF STRUCTURAL CONCRETE AT 28 DAYS SPECIFIED COMPRESSIVE STRENGTH OF CMU GROUT ULTIMATE STRENGTH OF STEEL SPECIFIED COMPRESSIVE STRENGTH

STRUCTURAL LEGEND

STRUCTURAL	LEGEND
	INDICATES OPENING
	INDICATES BLOCKOUT
	INDICATES GRADE BREAK
	INDICATES CMU WALL
1	INDICATES ONE-WAY SLAB
	INDICATES TWO-WAY SLAB SPAN
-1%_	INDICATES CROSS SLOPE
	INDICATES SLOPED SURFACE
(BF-1)	INDICATES BRACED FRAME
W24x	INDICATES STRUCTURAL STEEL WIDE FLANGE BEAM AND SIZE
COL	INDICATES STRUCTURAL STEEL COLUMN
	INDICATES BRACE DIRECTION
L3x3x	INDICATES STRUCTURAL STEEL ANGLE AND SIZE
DO	INDICATES BEAM SIZE IDENTICAL TO ADJACENT MEMBER
) —	STEEL MOMENT CONNECTION
±	INDICATES AN APPROXIMATE DIMENSION OR ELEVATION. VERIFY INFORMATION AS REQUIRED TO COMPLETE CONSTRUCTION.
-	INDICATES CONCRETE WALL
\	INDICATES LIGHT GAGE METAL STUD BEARING WALL, SEE ARCHITECTURAL DRAWINGS

FOUNDATION AND CONCOURSE LEVEL NOTES

- 1. TOP OF CONCOURSE LEVEL FINISH FLOOR ELEVATION = 0'-0" TYP, UNO
- 2. VERIFY ALL OPENINGS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND OTHER DISCIPLINES.
- 3. REFER TO GENERAL NOTES DB-S001X.
- 4. CONTROL JOINTS FOR SLAB ON GRADE ARE TO BE INSTALLED @ 20' OC MAX IN 8" SLAB, 12' OC MAX IN 5" SLAB OR AS SHOWN ON PLAN. CONTROL JOINTS SHALL BE MADE BY SAWCUTTING SLAB AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE DAMAGED BY THE BLADE, USUALLY WITHIN 4 TO 12 HOURS AFTER THE CONCRETE HARDENS (NO LATER THAN 24 HOURS AFTER PLACEMENT). SAWCUT DEPTH SHALL BE 1 1/2". CONSTRUCTION JOINTS MAY BE INSTALLED AT THE CONTRACTOR'S OPTION.
- 5. VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES IN THE FIELD. ALL CONTRACTORS SHALL CALL US.A., (CA. 1-800-227-2600) 48 HOURS BEFORE DIGGING. EXCAVATION FOR UNDER-GROUND FACILITIES SHALL NOT BE PERMITTED PRIOR TO UNDERGROUND SERVICE ALERT'S IDENTIFICATION OF EXISTING UTILITIES.
- 6. THE SIZE & LOCATION OF ALL FOOTING AND SLAB PENETRATIONS SHALL BE SUBMITTED TO EOR FOR REVIEW PRIOR TO INSTALLATION.
- 7. CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
- 8. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS OR FACE OF CONCRETE, TYP UNLESS NOTED OTHERWISE.

						DESIGNED BY J. REBER, S.E.
						DRAWN BY P. DIAZ
0	20130710				READINESS FOR CONSTRUCTION	CHECKED BY M. TARAZI
0	20130531				READINESS FOR CONSTRUCTION REPLACED C700-S-DB-S002 REV P.	IN CHARGE M. TARAZI
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710



Skanska Shimmick Herzog MFT Consulting E noineers, Inc. Aniil Verma Associates, In 1773 San Pablo Ave., Suite A3 (810) 222-4166

Fax (510) 222-6418 1

1436 California Circle Milpitas, California 95035 A Joint Venture

Lociowood, Androws

A November, Inc.

A LEG A BAX TOWNSY

APPROVED



Santa Clara Valley Transportation Authority

_MAKE CORRECTIONS NOTED (MCN)
_AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract

and does not relieve the Contractor of any of its obligations

Contract No.:

inder the contract, including design and detailing.

NO EXCEPTIONS TAKEN (NET)

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
STRUCTURAL GENERAL NOTES

SHEET 2 OF 3

C700-S-DB-S002X.dwg

SIZE | SCALE | NONE

CONTRACT NO. C700 | REV. O

AREA CODE | SHEET NO. PAGE NO. DB | S002X | 0135

SPECIAL INSPECTIONS

THE SSH SHALL EMPLOY A TESTING LAB & SPECIAL INSPECTOR DURING CONSTRUCTION PER THE REQUIREMENTS ON THE FOLLOWING TYPES OF WORK:

- CONTINUOUSLY INSPECT THE PLACEMENT OF ALL CONCRETE EXCEPT PERIODIC INSPECTION MAY BE PROVIDED FOR THE PLACEMENT OF CONCRETE FOR:
- FOUNDATIONS WITH I'C EQUAL TO 2500 PSI OR LESS.
- NON-STRUCTURAL SLABS ON GRADE. SAMPLE CONCRETE: ASTM C172, EXCEPT SLUMP SHALL COMPLY WITH ASTM C94. TEST SLUMP: ASTM C143, ONE TEST AT POINT OF TRUCK DISCHARGE FOR 50 CY OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE. ADDITIONAL TESTS REQUIRED
- WHEN CONCRETE CONSISTENCY SEEMS TO HAVE CHANGED.
- TEST AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE, ONE FOR EACH 50 CY PLACED OR FRACTION THERE OF FOR EACH TYPE OF AIR-ENTRAINED CONCRETE.
- TEST CONCRETE TEMPERATURE:
- TEST HOURLY WHEN AIR TEMPERATURE IS 50 DEGREE F. (10 DEGREES C.) AND BELOW, AND WHEN 85 DEGREES F. (29 DEGREES C.) AND ABOVE; AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE
- TAKE COMPRESSION TEST SPECIMENS: ASTM C31, TAKE ONE SET OF 3 STANDARD CYLINDERS FOR EACH 50 CY OF CONCRETE OR 5000 SQ. FT SLABS & WALLS OR FRACTION THEREOF FOR EACH TYPE OF CONCRETE TAKEN EACH DAY. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.
- TEST COMPRESSIVE STRENGTH: ASTM C39; ONE SPECIMEN TESTED AT 7 DAYS, 14 DAYS AND AT 28 DAYS.

REINFORCING STEEL

- VERIFY THAT MILLS CERTIFICATES SHOW REINFORCING STEEL IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS. TAKE A 5' LONG SAMPLE OF EACH BAR SIZE FROM EACH HEAT FOR EACH TYPE OF REINFORCING STEEL SHALL BE TESTED FOR ULTIMATE STRENGTH, YIELD STRESS, MODULUS OF ELASTICITY AND PERCENT ELONGATION AT RUPTURE.
- PERIODICALLY INSPECT THE PLACEMENT OF REINFORCING STEEL FOR SHOTCRETE AND FOR CONCRETE WHICH IS REQUIRED TO HAVE CONTINUOUS INSPECTION.
- CONTINUOUSLY INSPECT THE INSTALLATION OF ALL MECHANICAL COUPLING DEVICES.

NON-SHRINK/EXPANSIVE GROUT

TAKE TEST SPECIMENS AND CONTINUOUSLY INSPECT THE PLACEMENT OF NON-SHRINK/EXPANSIVE GROUT. SEE SPECIFICATIONS 03 61 11.

POST-INSTALLED ANCHORS IN CONCRETE:

WHEN DRILLED-IN EXPANSION ANCHORS OR OTHER POST-INSTALLED ANCHORS ACCEPTABLE TO THE ENFORCEMENT AGENCY ARE USED IN LIEU OF CAST IN-PLACE BOLTS, THE ALLOWABLE SHEAR AND TENSION VALUES AND INSTALLATION VERIFICATION TEST LOADS SHALL BE ACCEPTABLE TO ENGINEER OF RECORD, (EOR), ARCHITECT OF RECORD (AOR), &

WHEN EXPANSION-TYPE ANCHORS ARE LISTED FOR TRACK PLATE BOLTING APPLICATION, 10 PERCENT OF THE ANCHORS SHALL BE TENSION TESTED.

WHEN EXPANSION-TYPE ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS SUCH AS EQUIPMENT ANCHORAGE, 50 PERCENT OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP, SHALL BE TENSION TESTED.

THE TENSION TESTING OF THE EXPANSION ANCHORS SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE EOR, AOR AND OWNER. IF

ANY ANCHORS FAIL THE TENSION-TESTING REQUIREMENTS, THE ADDITIONAL TESTING REQUIREMENTS SHALL BE ACCEPTABLE TO THE ENFORCEMENT AGENCY. THE ABOVE REQUIREMENTS SHALL ALSO APPLY TO OTHER

POST-INSTALLED ANCHORS ACCEPTABLE TO THE ENFORCEMENT AGENCY AND BOLTS OR ANCHORS SET IN CONCRETE WITH CHEMICAL IF THE LONG-TERM DURABILITY AND STABILITY OF THE CHEMICAL MATERIAL AND ITS RESISTANCE TO LOSS OF STRENGTH AND CHEMICAL CHANGE AT ELEVATED TEMPERATURES ARE ESTABLISHED TO THE SATISFACTION OF THE **ENFORCEMENT AGENCY**

IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. IF THE ANCHORS ARE USED FOR THE SUPPORT AND BRACING OF NON-STRUCTURAL COMPONENTS (PIPE, DUCT OR CONDUIT), THE TWENTY (20) SHALL BE ONLY THOSE ANCHORS INSTALLED BY THE SAME TRADE.

BOLTS INSTALLED IN CONCRETE

PERIODICALLY INSPECT INSTALLATION OF BOLTS AND CONTINUOUSLY INSPECT PLACEMENT OF CONCRETE AROUND SUCH BOLTS.

EXPANSION ANCHORS

THE SPECIAL INSPECTOR SHALL VERIFY THE FOLLOWING AND RECORD THE INFORMATION IN THE INSPECTION REPORT:

- ANCHOR TYPE, SIZE AND DIMENSIONS
- HOLE DIMENSIONS AND CLEANLINESS
- ANCHOR SPACING FDGE DISTANCES
- ANCHOR EMBEDMENT
- TORQUE VALUE

TORQUE SHALL BE VERIFIED BY EITHER CONTINUOUS INSPECTION DURI<mark>NG T</mark>ORQUIN<mark>G</mark> OR BY TESTING THE ANCHORS AS FOLLOWS:

50% OF ANCHORS SHALL BE TESTED USING A TORQUE-CALIBRATED WRENCH TO A MINIMUM OF TORQUE AS SPECIFIED IN THE ICC REPORT FOR THE ANCHOR, IF ANY ANCHOR FAILS TESTING, THIS PROCESS SHALL CONTINUE UNTIL 20 CONSECUTIVE ANCHORS PASS. TESTING ON THE REMAINDER OF THE ANCHORS SHALL CONTINUE AT ORIGINAL FREQUENCY.

STRUCTURAL STEEL AND MISCELLANEOUS IRON

VERIFY THAT MILL CERTIFICATES SHOW STRUCTURAL STEEL AND MISCELLANEOUS IRON IS IN COMPLIANCE WITH PROJECT SPECIFICATIONS.

- VERIFY WELDER CERTIFICATIONS, COMPLIANCE WITH WELDING PROCEDURE SPECIFICATIONS AND PQR (IF APPLICABLE)
- CONTINUOUSLY INSPECT ALL STRUCTURAL WELDING, INCLUDING WELDING OF REINFORCING STEEL.

Santa Clara	Valley Transportation Authority
NO EXC	EPTIONS TAKEN (NET)
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and does not relieve	ove is subject to the terms of the contract the Contractor of any of its obligations act, including design and detailing.
Contract No.:	DB11002F
Bv:	Date:

EXCEPTIONS:

- 1. FLOOR AND ROOF DECK WELDING MAY HAVE PERIODIC INSPECTION.
- WELDED STUDS USED FOR DIAPHRAGM OR COMPOSITE CONSTRUCTION MAY HAVE PERIODIC INSPECTION
- 3. WELDED SHEET STEEL FOR COLD FORMED STEEL FRAMING MAY HAVE PERIODIC INSPECTION
- WELDING OF STAIRS AND RAILING SYSTEMS MAY HAVE PERIODIC INSPECTION.

NONDESTRUCTIVE TESTING:

ALL COMPLETE JOINT PENETRATION WELDS ON MATERIALS 5/16" THICK AND GREATER REQUIRE ULTRASONIC TESTING. PARTIAL JOINT PENETRATION WELDS WITH EFFECTIVE THROAT THICKNESS OF 3/4" OR GREATER REQUIRE ULTRASONIC TESTING. WELDS ON BASE METAL THICKER THAN 1 1/2" REQUIRE ULTRASONIC TESTING

HIGH STRENGTH BOLTING

PRIOR TO BOLTING OPERATIONS:

- VERIFY THAT MILL CERTIFICATES SHOW THAT BOLTS, NUTS AND WASHERS
- COMPLY WITH THE PROJECT SPECIFICATIONS.
- VERIFY THAT THE METHODS OF TIGHTENING TO BE USED BY THE CONTRACTOR COMPLY WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", CURRENT EDITION APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS OF THE ENGINEERING FOUNDATION (RCSC) AND ENDORSED BY AISC.
- PERFORM TENSION CALIBRATION TESTS WITH THE CONTRACTOR'S TOOLS ON 3 BOLT ASSEMBLIES FOR EACH DIAMETER, LENGTH, GRADE, PRODUCTION LOT AND TIGHTENING METHOD TO BE USED ON THE PROJECT INCLUDING PRETENSIONED ANCHOR RODS. TEST SHALL BE PER RCSC SPECIFICATIONS.
- INSPECT THE FAYING SURFACES OF EACH BOLTED CONNECTION FOR COMPLIANCE WITH RCSC SPECIFICATIONS.

DURING BOLTING OPERATIONS:

- VEREIFY THAT ALL PLIES OF CONNECTED MATERIAL HAVE BEEN DRAWN TOGETHER TO A SNUG CONDITION AS DEFINED PER RCSC SPECIFICATIONS BEFORE FINAL TIGHTENING.
- VERIFY PLACEMENT OF MATCH-MARKS OR WRENCH CALIBRATION AS REQUIRED.
- CONTINUOUSLY INSPECT FINAL TIGHTENING OPERATIONS PER RCSC SPECIFICATIONS.

EXCEPTIONS:

THE SPECIAL INNSPECTOR NEED NOT BE PRESENT DURING ALL FINAL TIGHTENING OPERATIONS PROVIDED IT CAN BE VERIFIED THAT PROPER PROCEDURES WERE FOLLOWED (I.E. THE USE OF "TWIST-OFF" TYPE BOLTS).

SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE HIS COMPETENCE, TO EOR, AOR & OWNER, FOR INSPECTION OF A PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- TESTING AND INSPECTIONS WILL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY SELECTED AND EMPLOYED BY OWNER PROCEDURAL AND ACCEPTANCE CRITERIA ARE SET FORTH IN THE 2010 CALIFORNIA

BUILDING CODE

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPLICABLE PROJECT DRAWINGS AND SPECIFICATIONS
- MATERIAL REQUIRED TO BE TESTED WILL BE SELECTED BY THE TESTING LAB AND NOT BY THE CONTRACTOR.
- THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT OR MANAGER, THE STRUCTURAL ENGINEER OF RECORD AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY FOR CORRECTION. THEN IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND TO THE BUILDING OFFICIAL, TEST REPORTS SHALL BE SIGNED BY A REGISTERED CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA
- THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED VERIFIED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.

						DESIGNED BY J. REBER, S.E
						DRAWN BY
						P. DIAZ
0	20130710				READINESS FOR CONSTRUCTION	CHECKED BY M. TARAZI
0	20130531				READINESS FOR CONSTRUCTION	IN CHARGE
					REPLACED C700-S-DB-S003 REV P.	M. TARAZI
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710

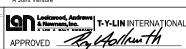






1436 California Circle Milpitas, California 95035





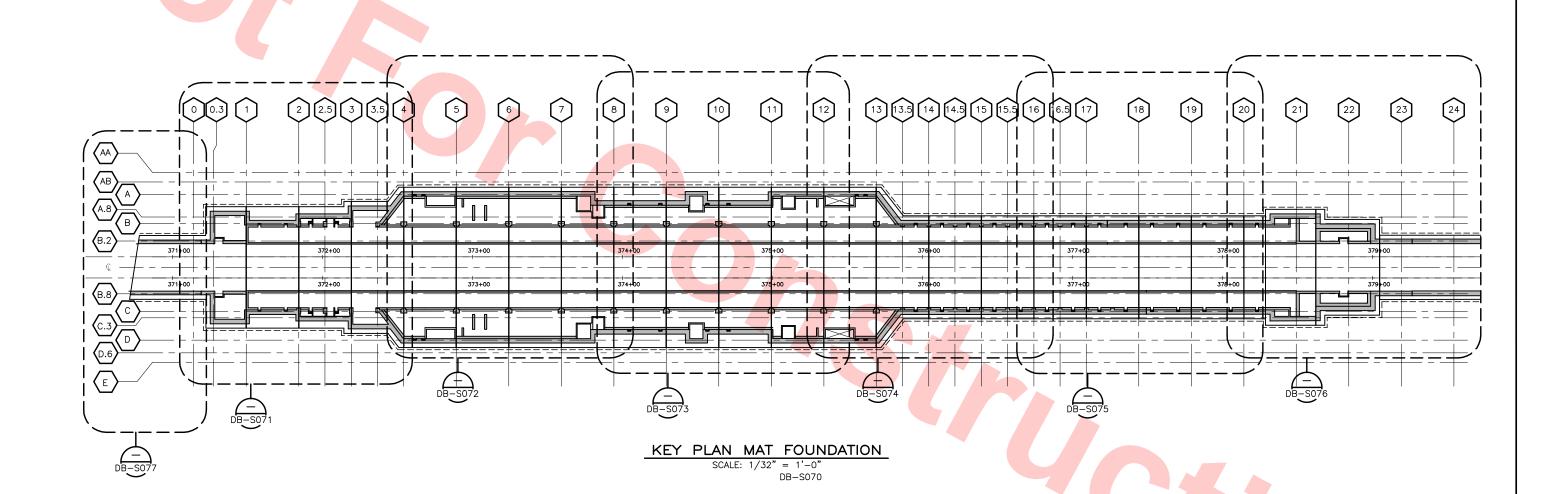


LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

STRUCTURAL GENERAL NOTES SHEET 3 OF 3

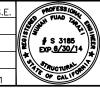
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FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

CHECKED BY M. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION DATE 20130531 REV DATE BY SUB APP



Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035

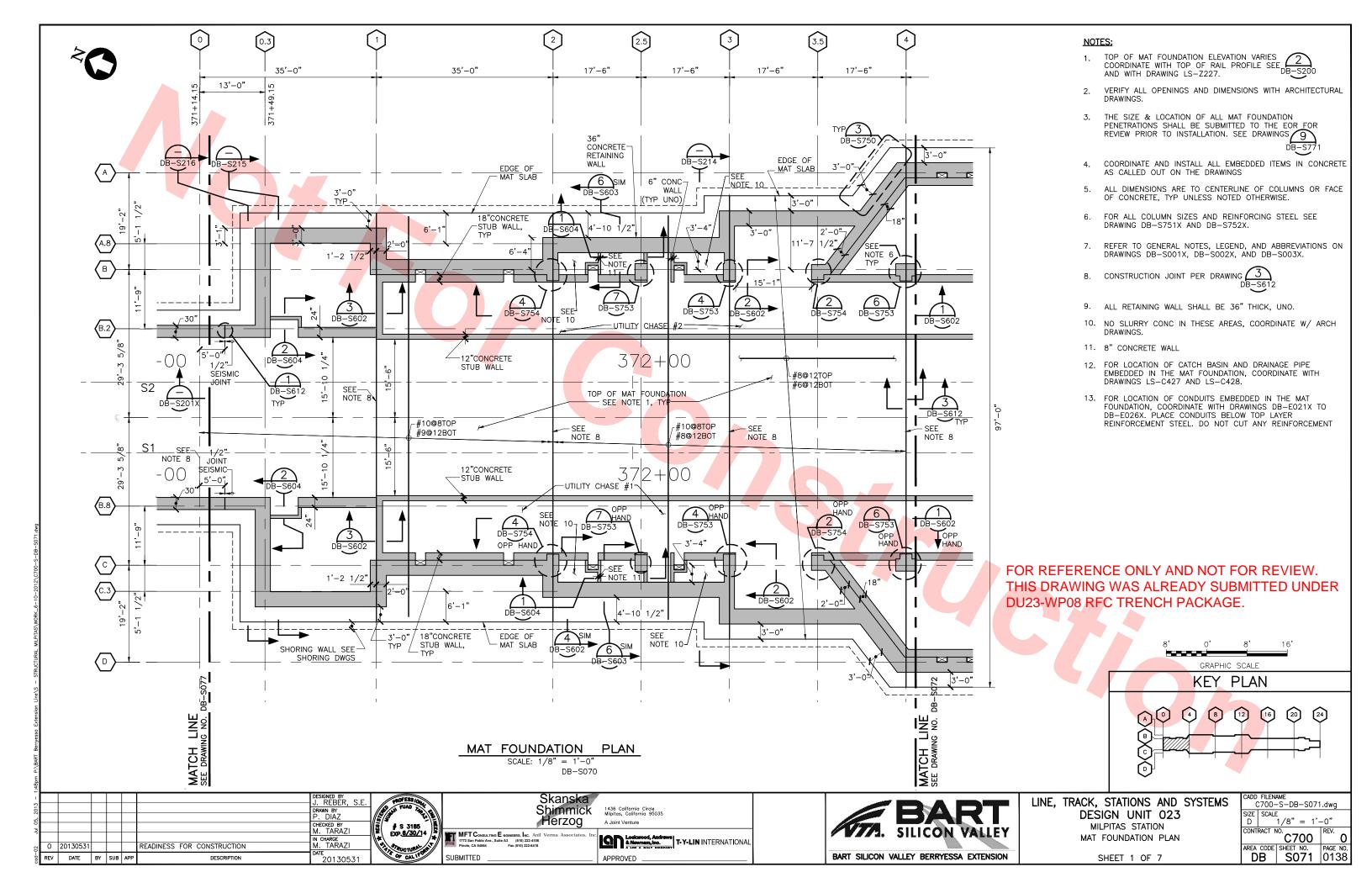


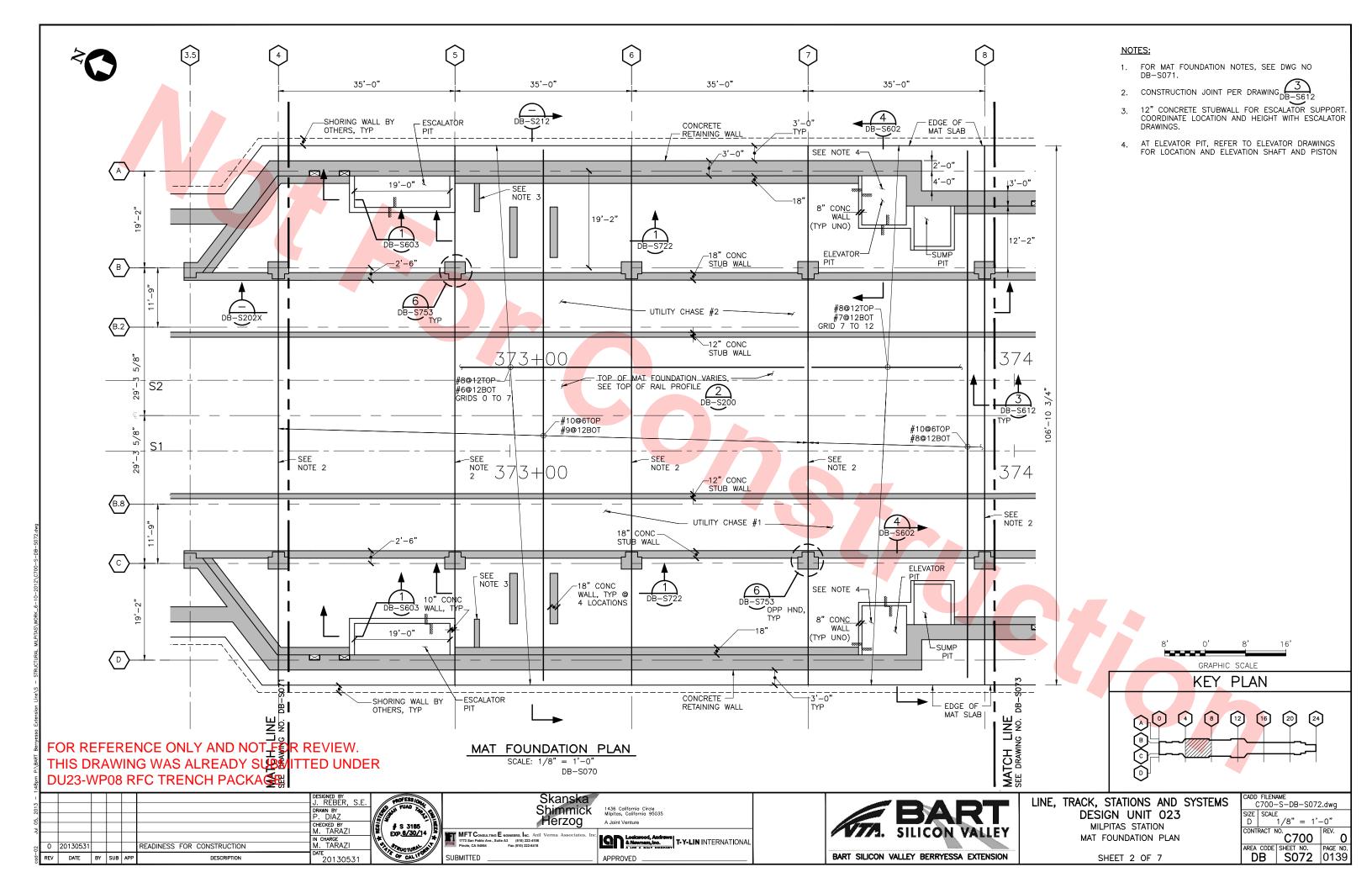


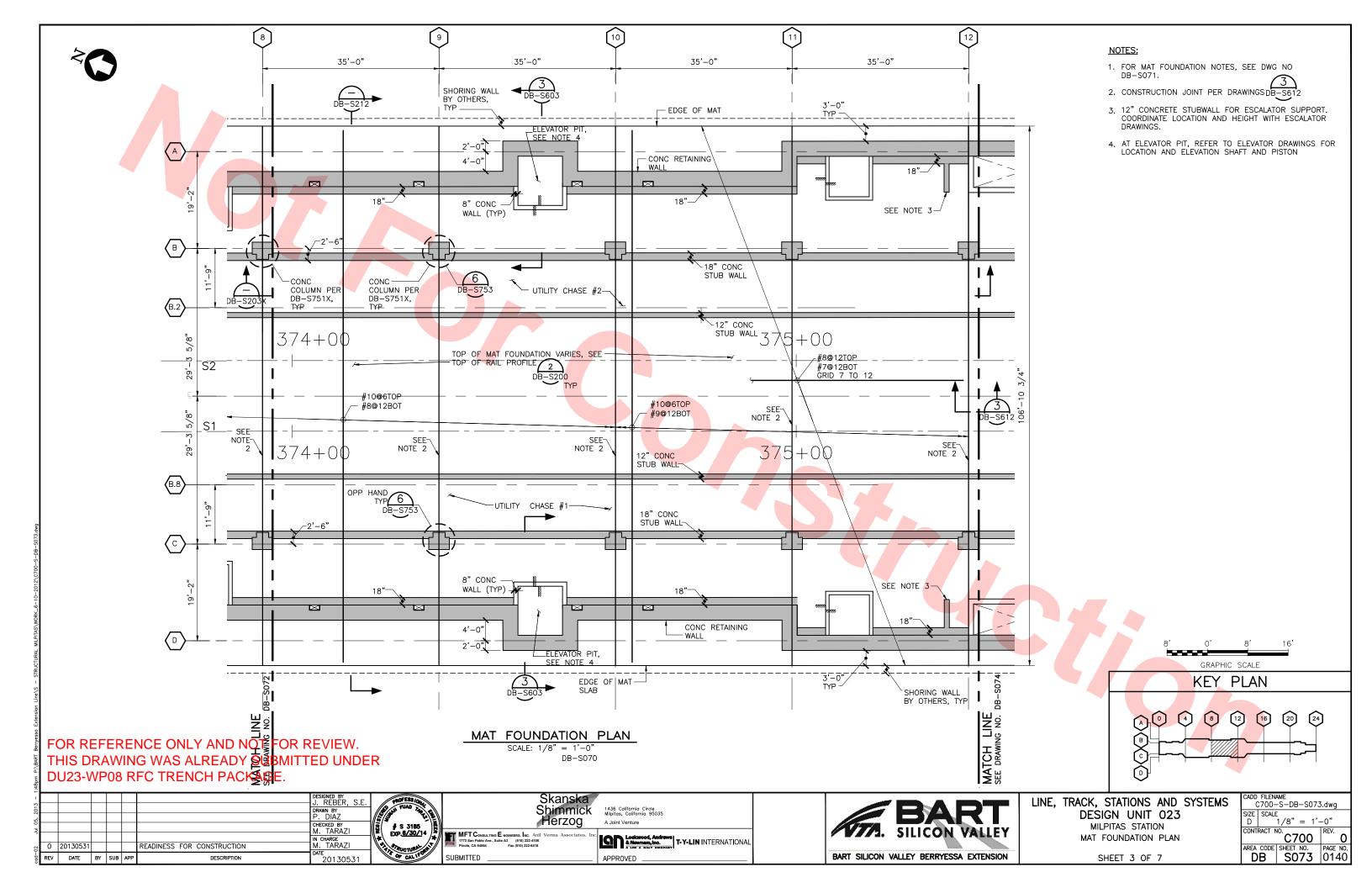
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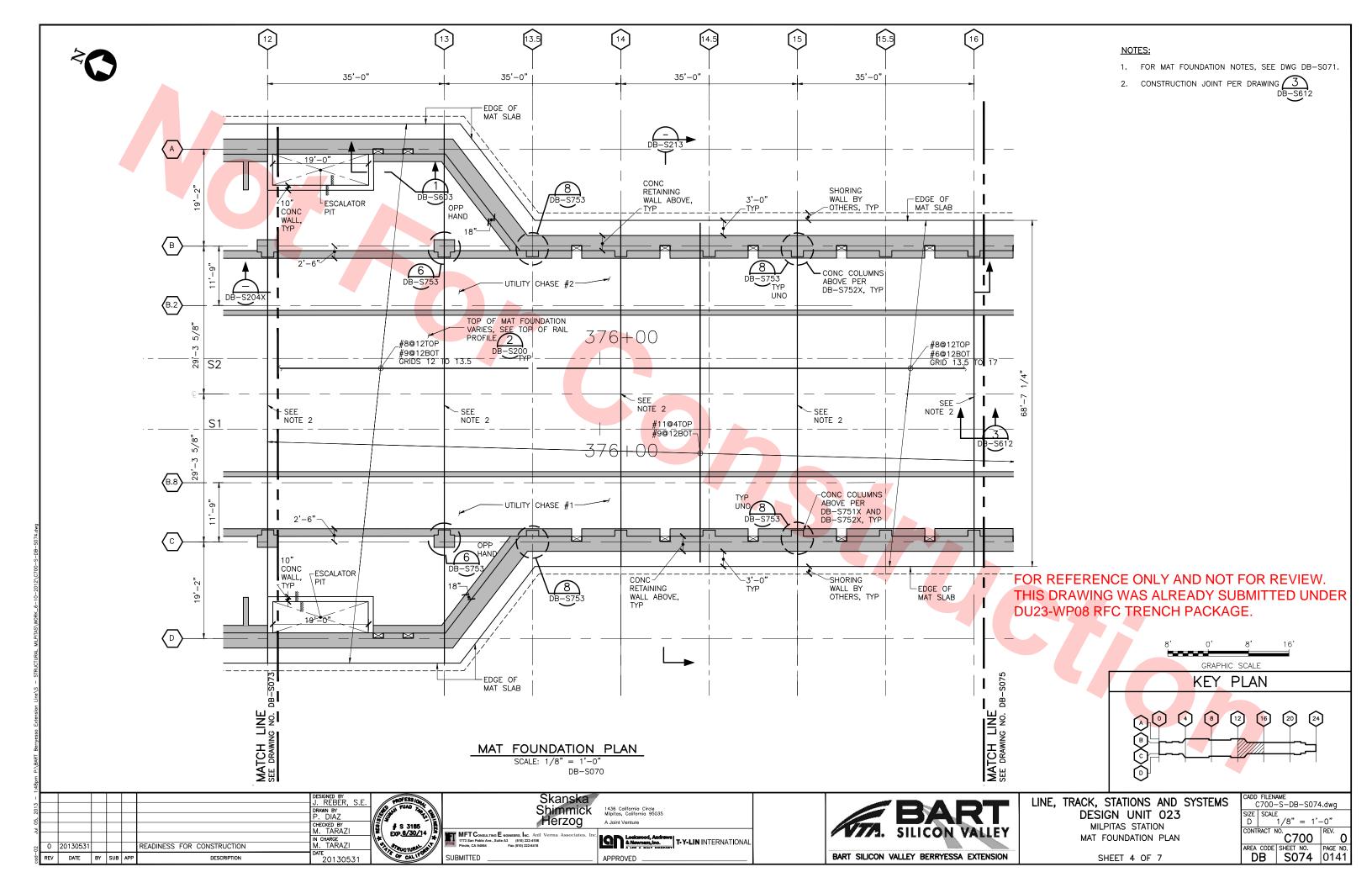
LINE, TRACK, STATIONS AND SYSTEM DESIGN UNIT 023 MILPITAS STATION
MAT FOUNDATION KEY PLAN

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NOTES: 1. FOR MAT FOUNDATION NOTES, SEE DWG DB-S071. 2. CONSTRUCTION JOINT PER DRAWING 3
DB-S612 [17] 35'⊢0" 35'-0" 35'-0" 35'-0" 14'-0" -EDGE OF MAT SLAB SHORING WALL BY DB-S612 OTHERS, TYP <u>/-3'-0"_TYP</u>. VENT OPN'G IN WALL 18" CONC STUB WALL CONC COLUMNS ABOVE PER DB-S751X AND DB-S752X, TYP BELOW, TYP -UTILITY CHASE ; 1/2" SEISMIC +-STUB WALL 377+0378 + 00SEE NOTE 2 -SEE NOTE 2 -#8 @ 12 TOP #6 @ 12 BOT S2 TOP OF MAT FOUNDATION-VARIES, SEE TOP OF RAIL PROFILE 2 — SEE NOTE 2 #9@8TOP S1 #10@12B0T 377 + 01/2" SEISMIC 378+00 _12" CONC | STUB WALL -UTILITY CHASE #1 -1/2" SEISMIC JOINT /----- VENT OPNG IN WALL BELOW, TYP 18" CONC STUB WALL 3'-0" TYP] CONC RETAINING WALL -SHORING WALL BY LEDGE OF MAT SLAB OTHERS, TYP MATCH LINE SEE DRAWING NO. D \bigcirc GRAPHIC SCALE MATCH SEE_DRAWIN KEY PLAN (A)(O) FOR REFERENCE ONLY AND NOT FOR REVIEW. MAT FOUNDATION PLAN THIS DRAWING WAS ALREADY SUBMITTED UNDER SCALE: 1/8" = 1'-0'DB-S070 DU23-WP08 RFC TRENCH PACKAGE. Skanska Shimmick C700-S-DB-S075.dwg LINE, TRACK, STATIONS AND SYSTEMS 1436 California Circle Milpitas, California 95035 SIZE | SCALE | D | 1/8" = 1'-0" **DESIGN UNIT 023** Herzog # S 3185 EXP.<u>6/30/1</u>4 CHECKED BY M. TARAZI MILPITAS STATION C700 REV. 0

AREA CODE SHEET NO. PAGE NO. DB S075 0142 MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418 MAT FOUNDATION PLAN IN CHARGE M. TARAZI Lockwood, Andrews

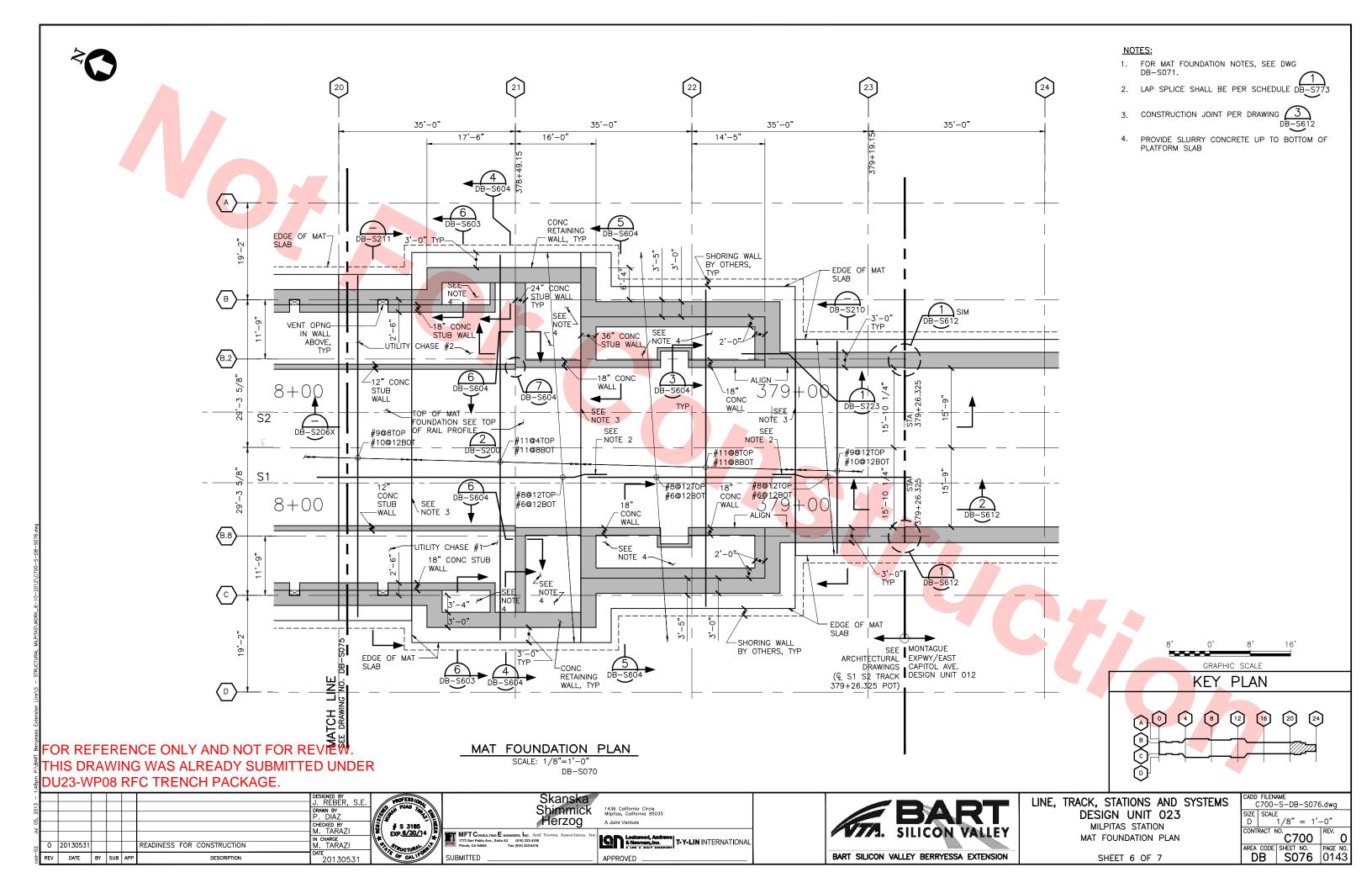
4. Nowman, Inc.

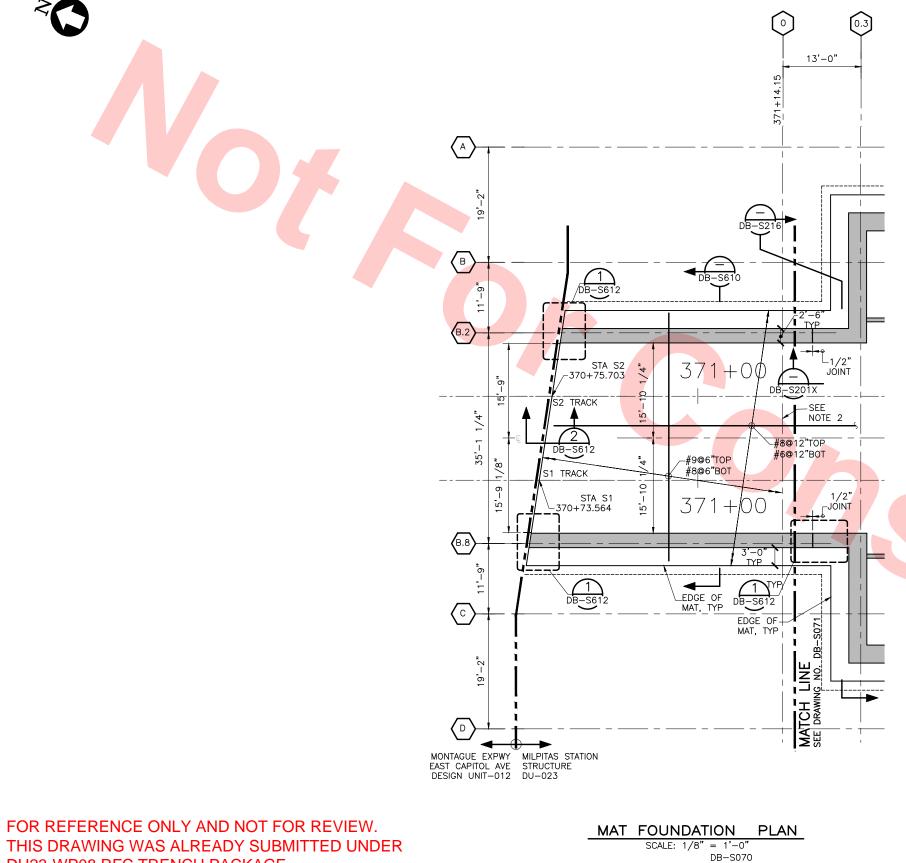
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6. Nowman, Inc.

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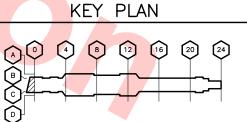


NOTES:

- 1. FOR MAT FOUNDATION NOTES, SEE DWG NO DB-S071
- 2. CONSTRUCTION JOINT PER DWG NO $\overbrace{3}_{DB-S612}$







THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

						DESIGNED BY J. REBER, S.E.	PROFESSION	Skanska		_
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						P. DIAZ	16/3 A 5/5	Herzog	A Joint Venture	
						CHECKED BY M. TARAZI	g # S 3185) [6]	MFT Consulting E ngineers, Inc. Anil Verma Associates, Inc.	A COUNTY CONTROL	
						IN CHARGE		MFT Consulting Engineers, Inc. Anil Verma Associates, Inc. 1773 San Pablo Ave., Suite A3 (510) 222-4106	Lockwood, Andrews	
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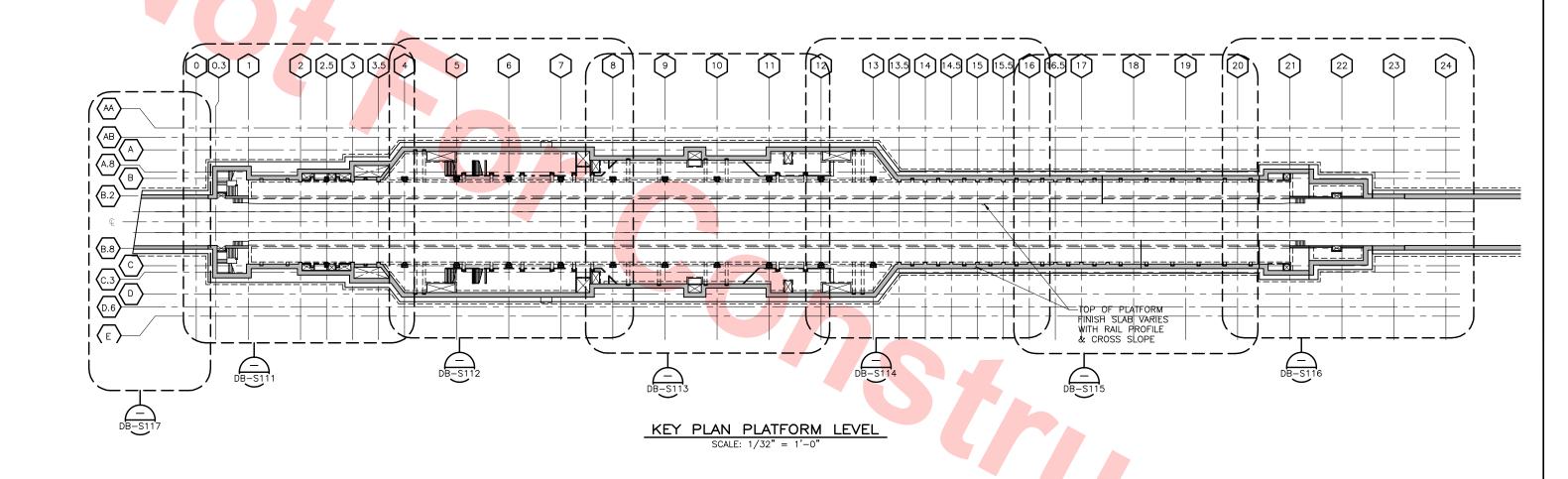
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION

MAT FOUNDATION PLAN

SHEET 7 OF 7

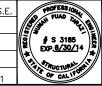
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FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

CHECKED BY M. TARAZI READINESS FOR CONSTRUCTION
REPLACED C700-S-DB-S100 REV F 0 20130531 IN CHARGE M. TARAZI DATE 20130531 REV DATE BY SUB APP



SUBMITTED

Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035

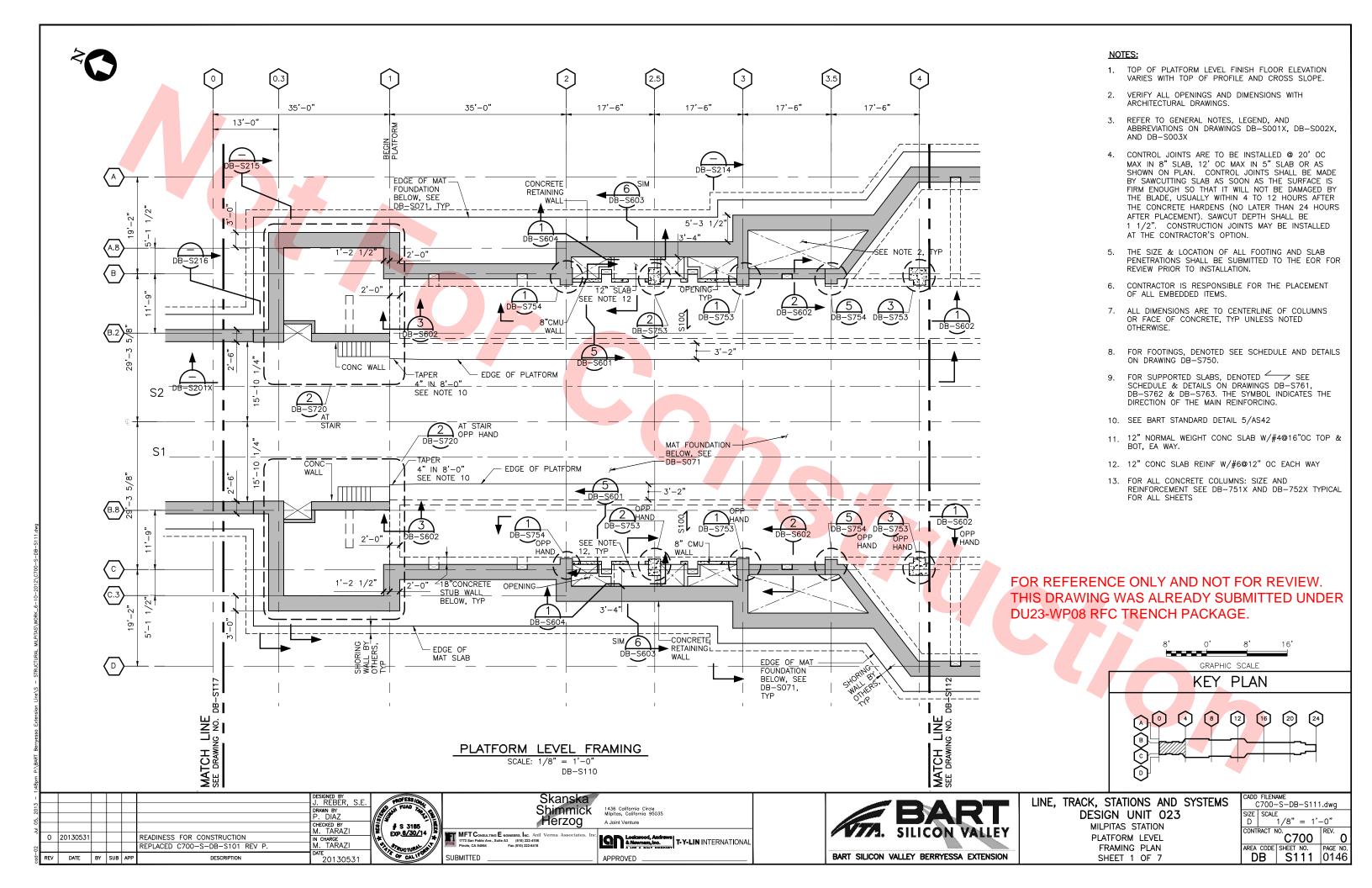
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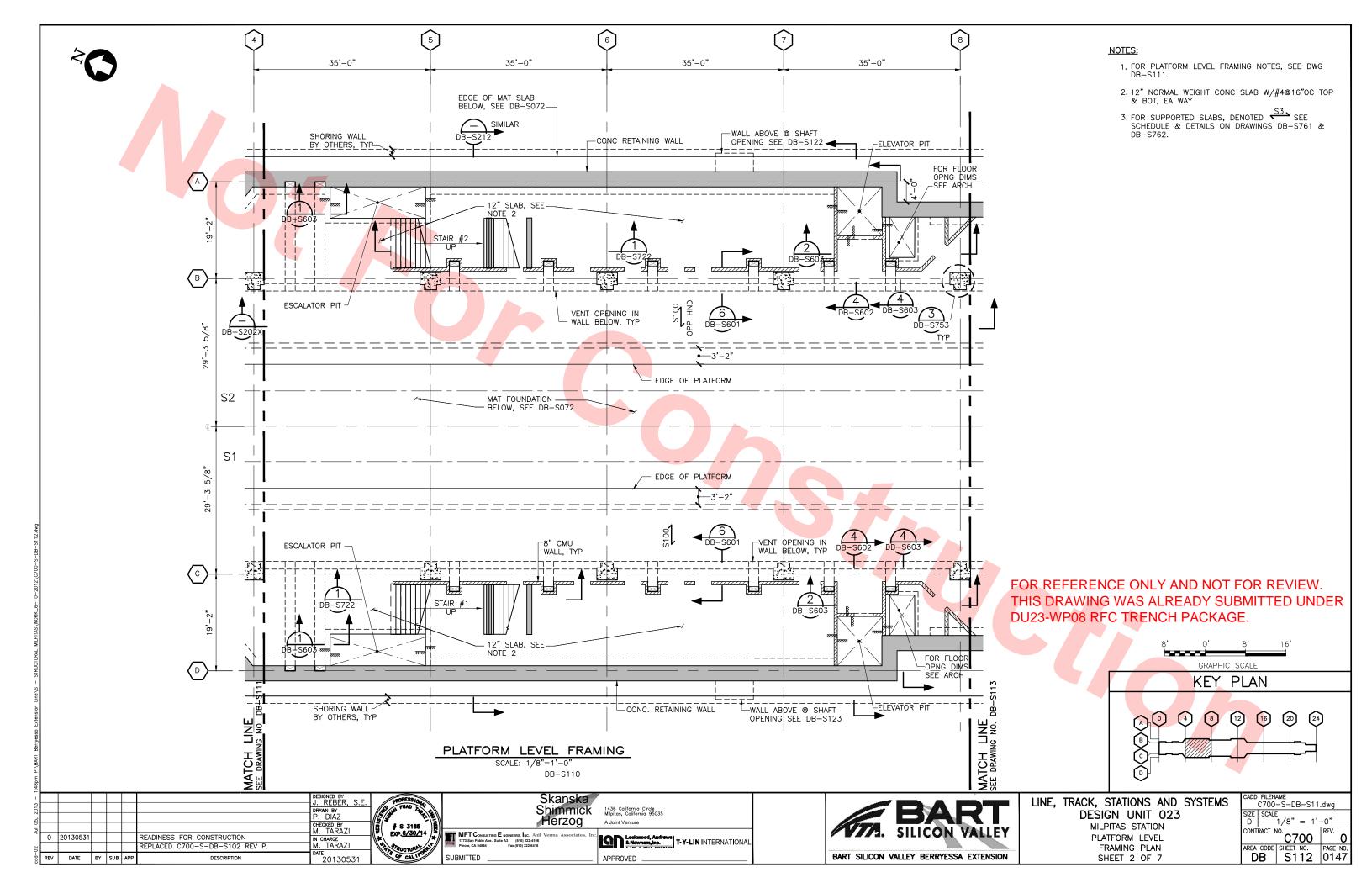


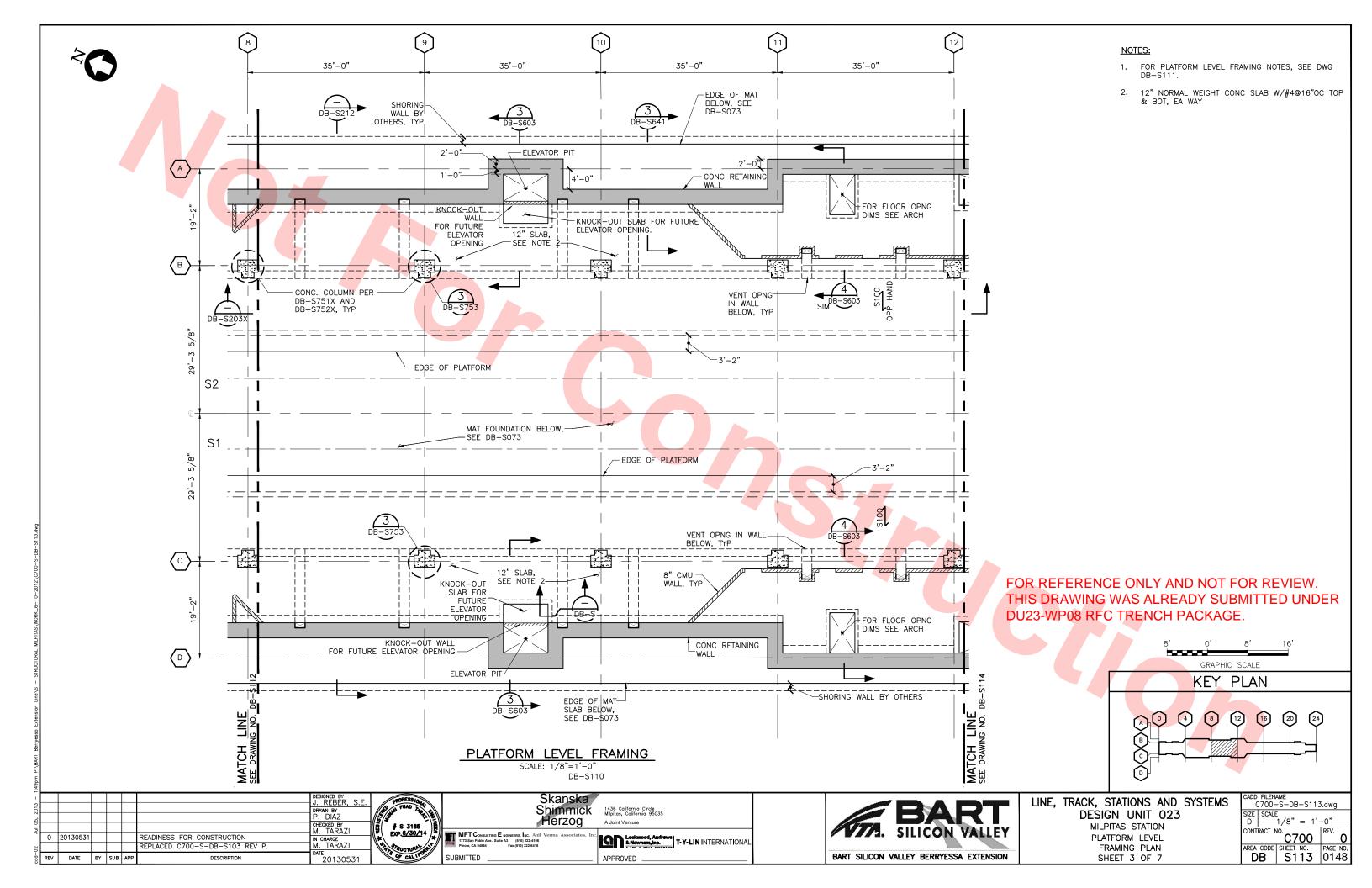
LINE, TRACK, STATIONS AND SYSTEM

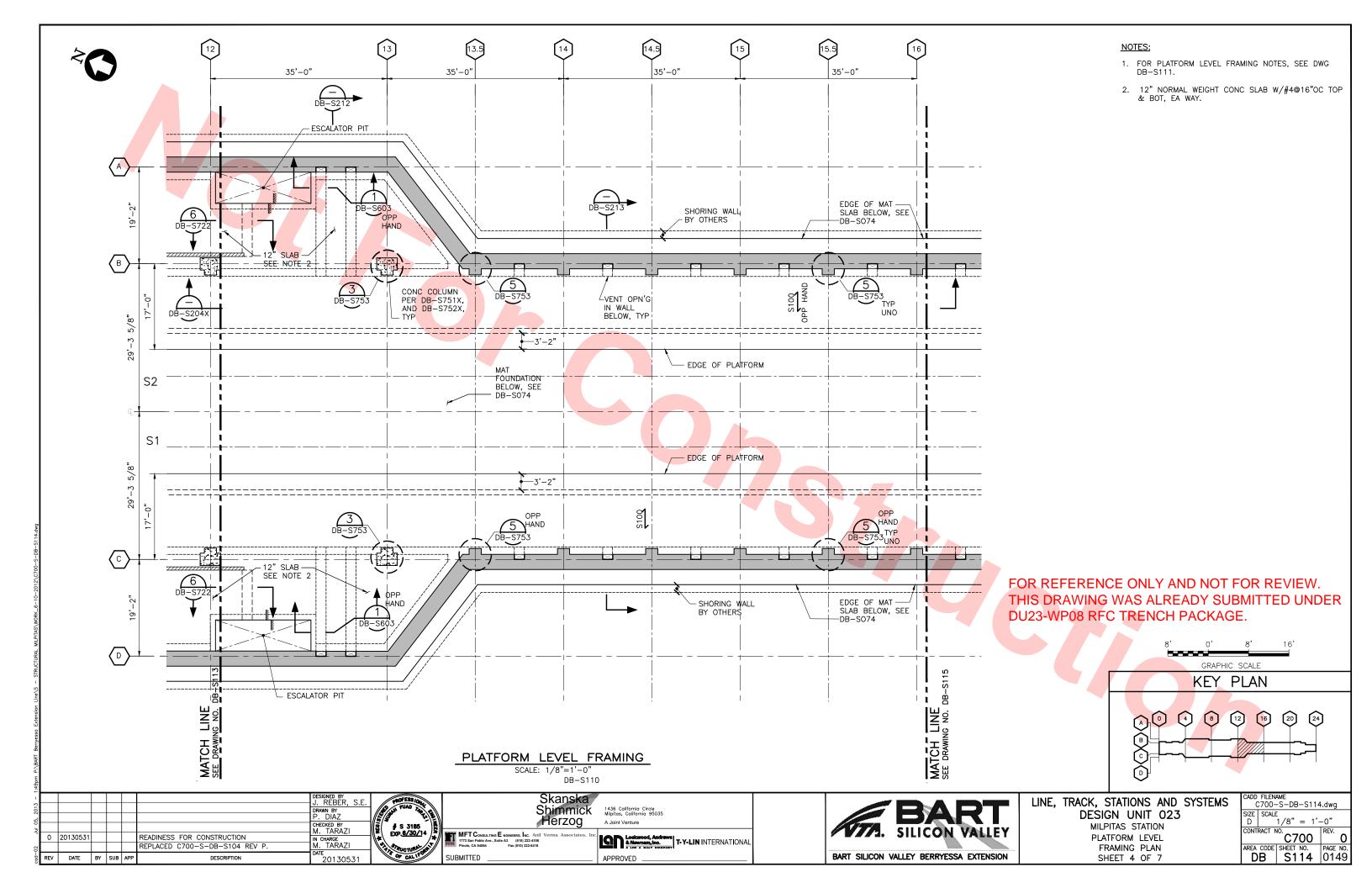
DESIGN UNIT 023 MILPITAS STATION PLATFORM LEVEL KEY PLAN

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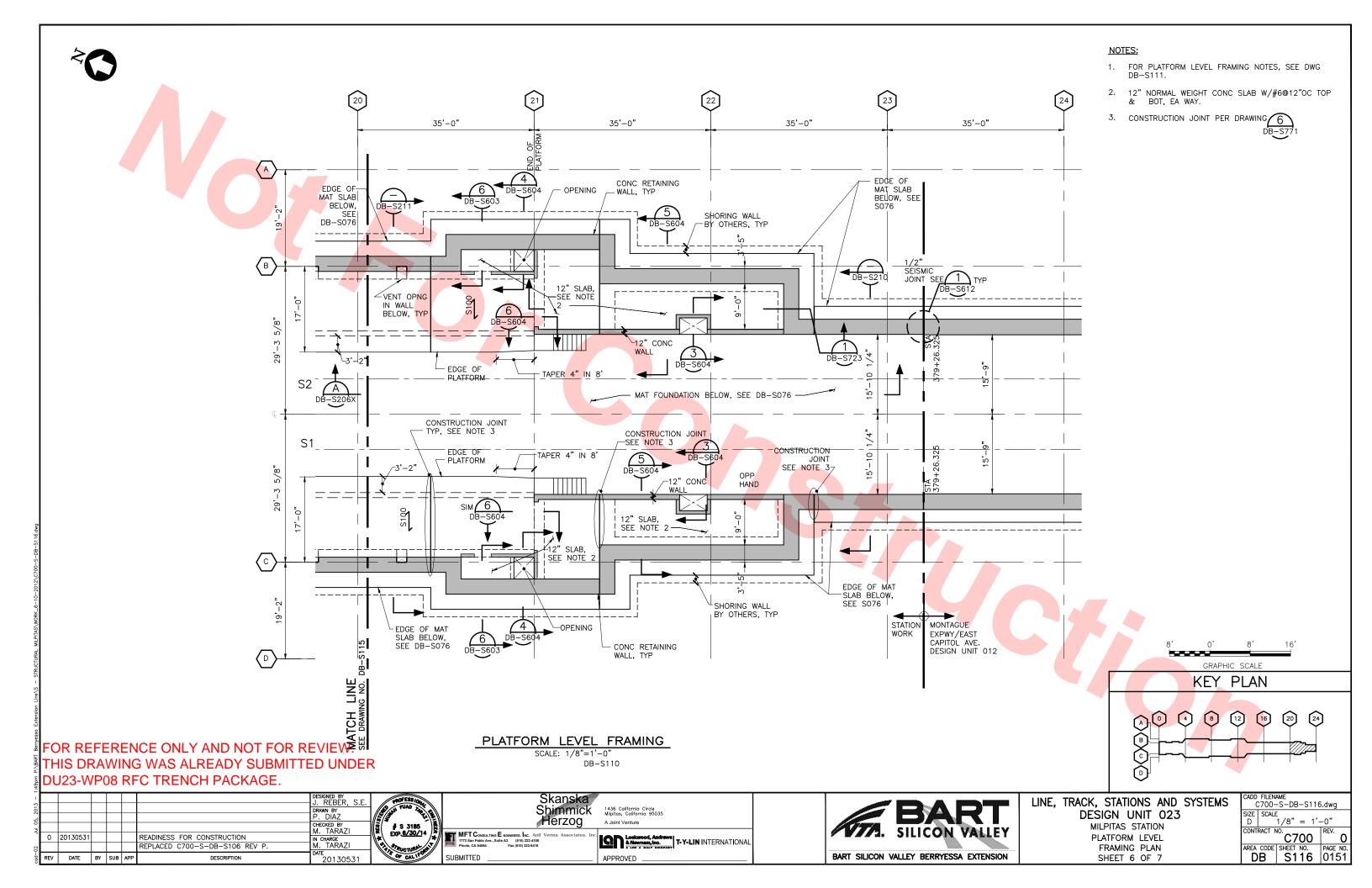








 FOR PLATFORM LEVEL FRAMING NOTES, SEE DWG DB-S111. 20 17'-6" 17'-6" 35'-0" 35'-0" 35'-0" 14'-0" EDGE OF MAT-SLAB BELOW, SEE -CONC RETAINING WALL SHORING WALLS DB-S075 BY OTHERS 1/2" SEISMIC JOINT VENT OPNG IN WALL BELOW, TYP -CONC. COLUMN PER DB-S751X AND DB-S752X TYP 1/2" SEISMIC JOINT ____3'-2" - EDGE OF PLATFORM S2 MAT FOUNDATION BELOW, -SEE DB-S075 S1 EDGE OF PLATFORM _1/2" SEISMIC JOINT VENT OPNG IN WALL BELOW, TYP FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER 1/2" SEISMIC JOINT DU23-WP08 RFC TRENCH PACKAGE. -EDGE OF MAT SLAB BELOW, CONC RETAINING WALL SHORING WALLS 5'-0" SEE DB-S075 BY OTHERS GRAPHIC SCALE KEY PLAN MATCH LINE SEE DRAWING NO. D PLATFORM LEVEL FRAMING SCALE: 1/8"=1'-0" DB-S110 Skanska Shimmick CADD FILENAME C700-S-DB-S115.dwg LINE, TRACK, STATIONS AND SYSTEMS 1436 California Circle Milpitas, California 95035 SIZE | SCALE | D | 1/8" = 1'-0" **DESIGN UNIT 023** Herzog # S 3185 EXP.<u>6/30/1</u>4 CHECKED BY M. TARAZI MILPITAS STATION C700 REV. O O AREA CODE SHEET NO. DB S115 0150 MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418 IN CHARGE M. TARAZI 0 20130531 READINESS FOR CONSTRUCTION PLATFORM LEVEL Lockwood, Andrews & Nowmen, Inc. 4 149 A 1 REPLACED C700-S-DB-S105 REV F FRAMING PLAN DATE 20130531 BART SILICON VALLEY BERRYESSA EXTENSION SUBMITTED SHEET 5 OF 7 REV DATE BY SUB APP

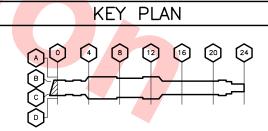


13'-0" 1/2" SEISMIC JOINT, TYP DB-S612 MAT FOUNDATION BELOW SEE DB-S077 1/2" SMIC JOINT, TYP MONTAGUE EXPWY MILPITAS STATION EAST CAPITOL AVE DESIGN UNIT-012 DU-023 FOR REFERENCE ONLY AND NOT FOR REVIEW. PLATFORM LEVEL FRAMING

NOTES:

1. FOR MAT FOUNDATION NOTES, SEE DWG NO DB-S111





THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

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

DB-S110

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	MFT Consulting E ngineers, Inc. Anil Verma Assoc 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

SUBMITTED

1436 California Circle Milpitas, California 95035

Lockwood, Andrews

& Nowmens, Inc.
LISA DATY COMPARY

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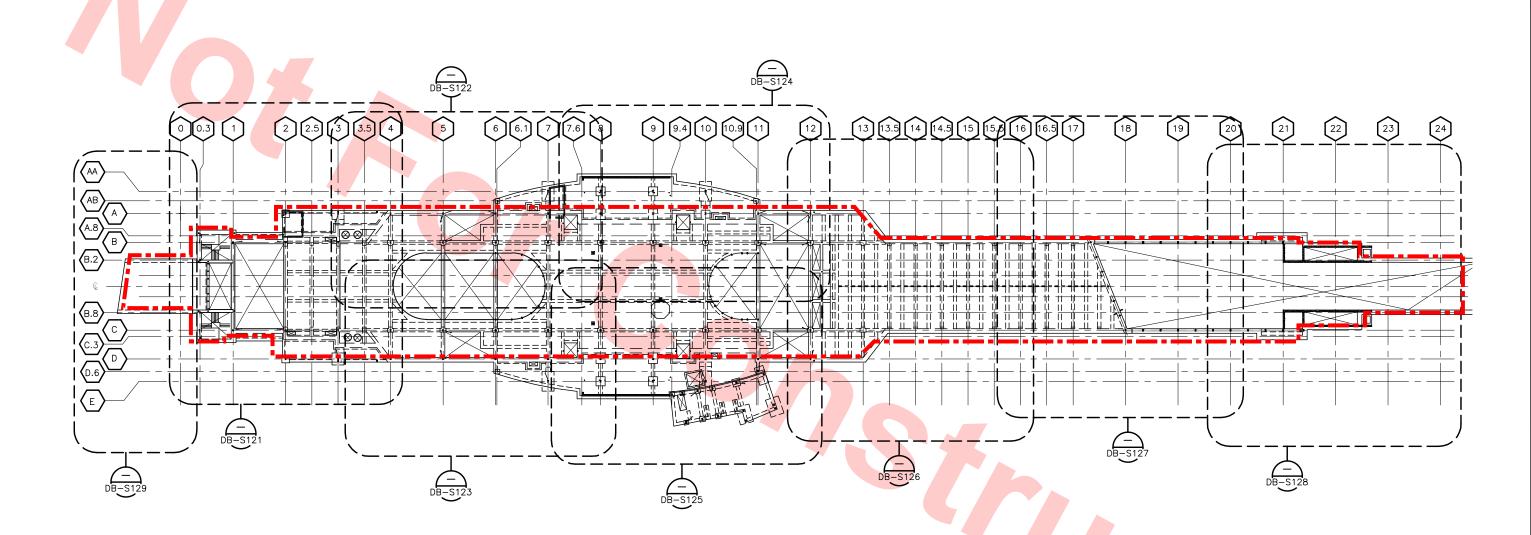


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PLATFORM LEVEL FRAMING PLAN SHEET 7 OF 7

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KEY PLAN FOUNDATION AND CONCOURSE FRAMING SCALE: 1/32" = 1'-0"

_NO EXCEPTIONS TAKEN (NET) ___MAKE CORRECTIONS NOTED (MCN) ___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its oblig under the contract, including design and detail

NOTE TO REVIEWER(S):

DO NOT REVIEW AREAS DESIGNATED AS

READINESS FOR CONSTRUCTION READINESS FOR CONSTRUCTION





Skanska Shimmick Herzog

1436 California Circle Milpitas, California 95035



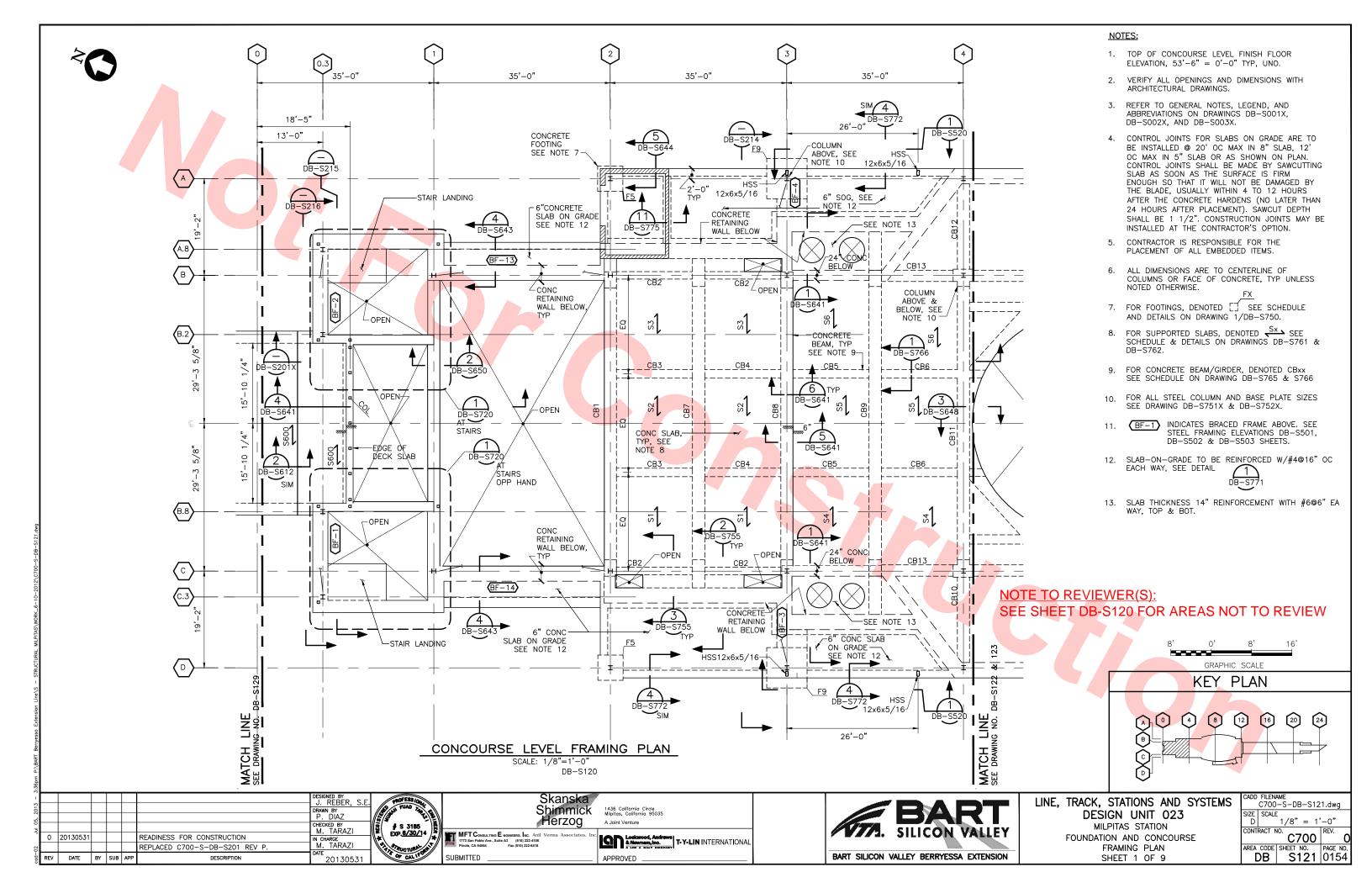


LINE, TRACK, STATIONS AND SYSTEM DESIGN UNIT 023

MILPITAS STATION FOUNDATION AND CONCOURSE FRAMING KEY PLAN

0 20130710 0 20130531

REV DATE BY SUB APP



4 35'-0" 35'-0" 35'-0" 35'-0" -COLUMN ABOVE NOTE 1 <u>F2</u> COILING GRILLE 6" CONC SOG, SEE NOTE 1 SUPPORT, SEE NOTE 2 EDGE OF -DECK _CONC FOOTING CONC NOTE 1 WALL BELOW CONC SLAB, TYP NOTE 3 SEE CONC BEAM SEE NOTE 1, TYP CB14 (BF-19) CB14 _ <u>CB14</u> - EDGE OF SLAB -CONC SLAB, TYP SEE SEE NOTE 4 10x3 1/2x 3/8, TYP - OPEN -OPEN FARE GATE #1 SUPPORT FRAME MATCH LINE SEE DRAWING NO. DB-S123 MATCH LINE
SEE DRAWING NO. D MATCH LINE SEE DRAWING NO. D

NOTES:

- 1. FOR FOUNDATION AND CONCOURSE LEVEL FRAMING NOTES, SEE DWG DB-S121.
- FOR LOCATION AND DETAILS OF COILING GRILLE SUPPORT COLUMN SEE DRAWING DB-S691.
- 3. FOR ELEVATOR FRAMING PLANS SEE 1/DB-S135
- SLAB THICKNESS IS 10" REINFORCEMENT W/#5@6' EW TOP & BOT.

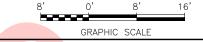
Santa Clara Valley Transportation Authority

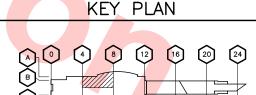
___NO EXCEPTIONS TAKEN (NET)
__MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: ____





NOTE TO REVIEWER(S): SEE SHEET DB-S120 FOR AREAS NOT TO REVIEW

CONCOURSE LEVEL FRAMING PLAN

SCALE: 1/8"=1'-0" DB-S120

5								
2013 -							DESIGNED BY J. REBER, S.E. DRAWN BY	1 1 1 1 1 1 1 1 1 1
08,							P. DIAZ CHECKED BY	100 M
Jul.		20130531				READINESS FOR CONSTRUCTION	M. TARAZI IN CHARGE M. TARAZI	# EX
cad-02	REV	DATE	BY	SUB	APP	REPLACED C700-S-DB-S202 REV P. DESCRIPTION	DATE 20130531	We a



Skans Shimm Herzo MFT Consulting E Monegers, Inc. Anil Verma Associ 173 san Pablo Ave, Sulta AJ (60) 222-416 Pinolo, Ca Abdes Fac (160) 222-416

SUBMITTED



AJS California Circles
Milpitas, California 95035
A Joint Venture

Contact ADAINT COMPANY

APPROVED

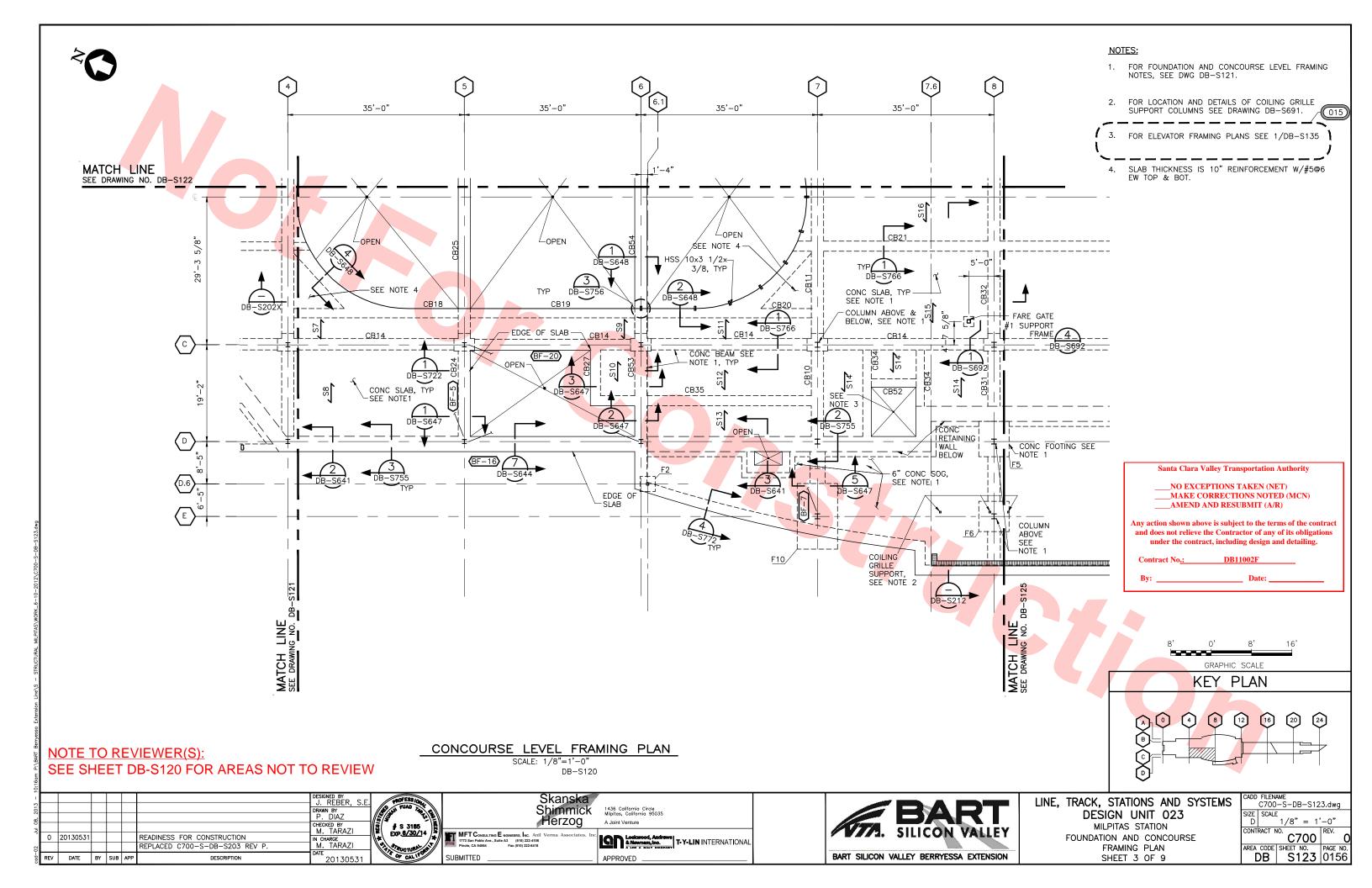
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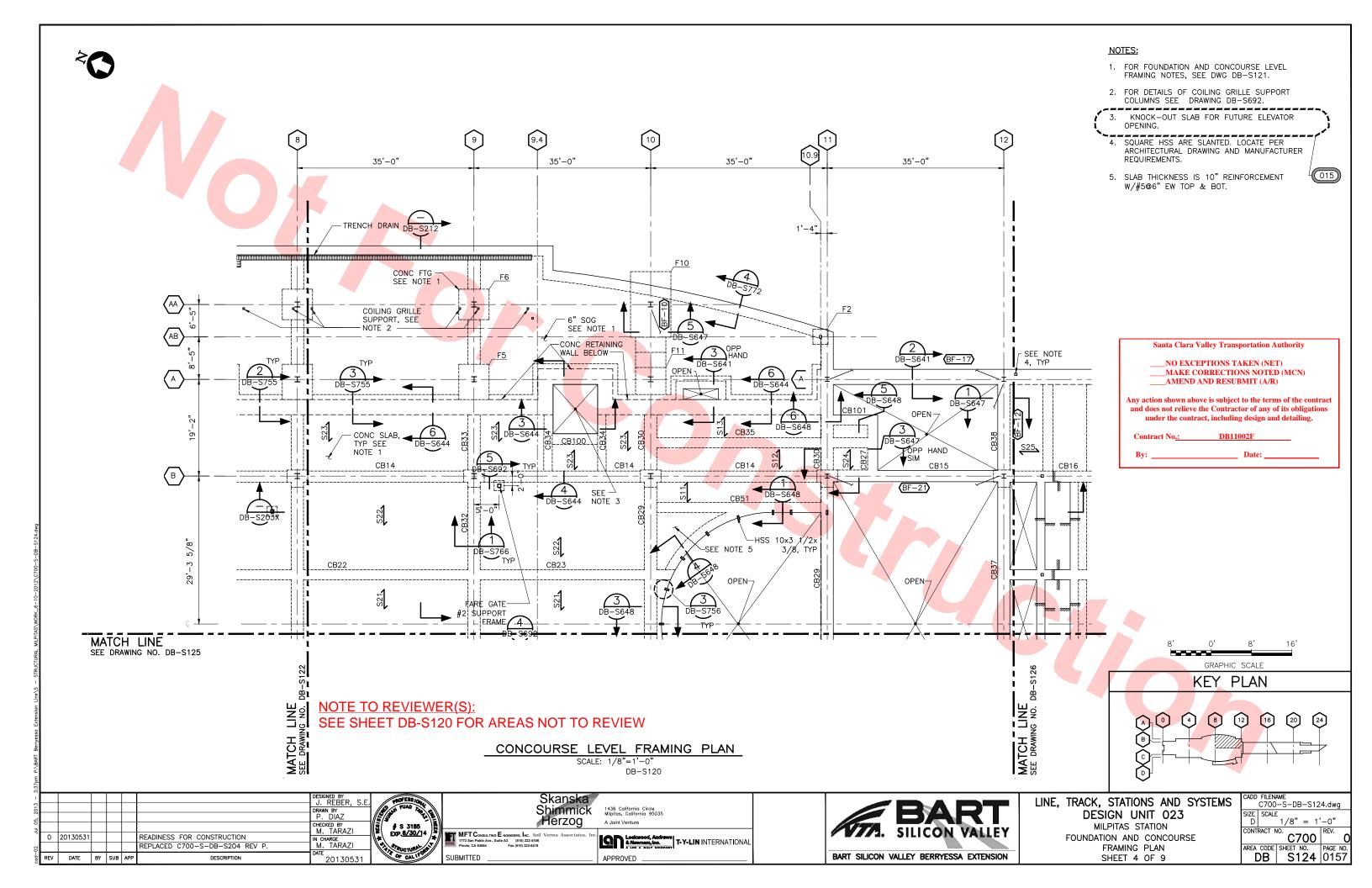


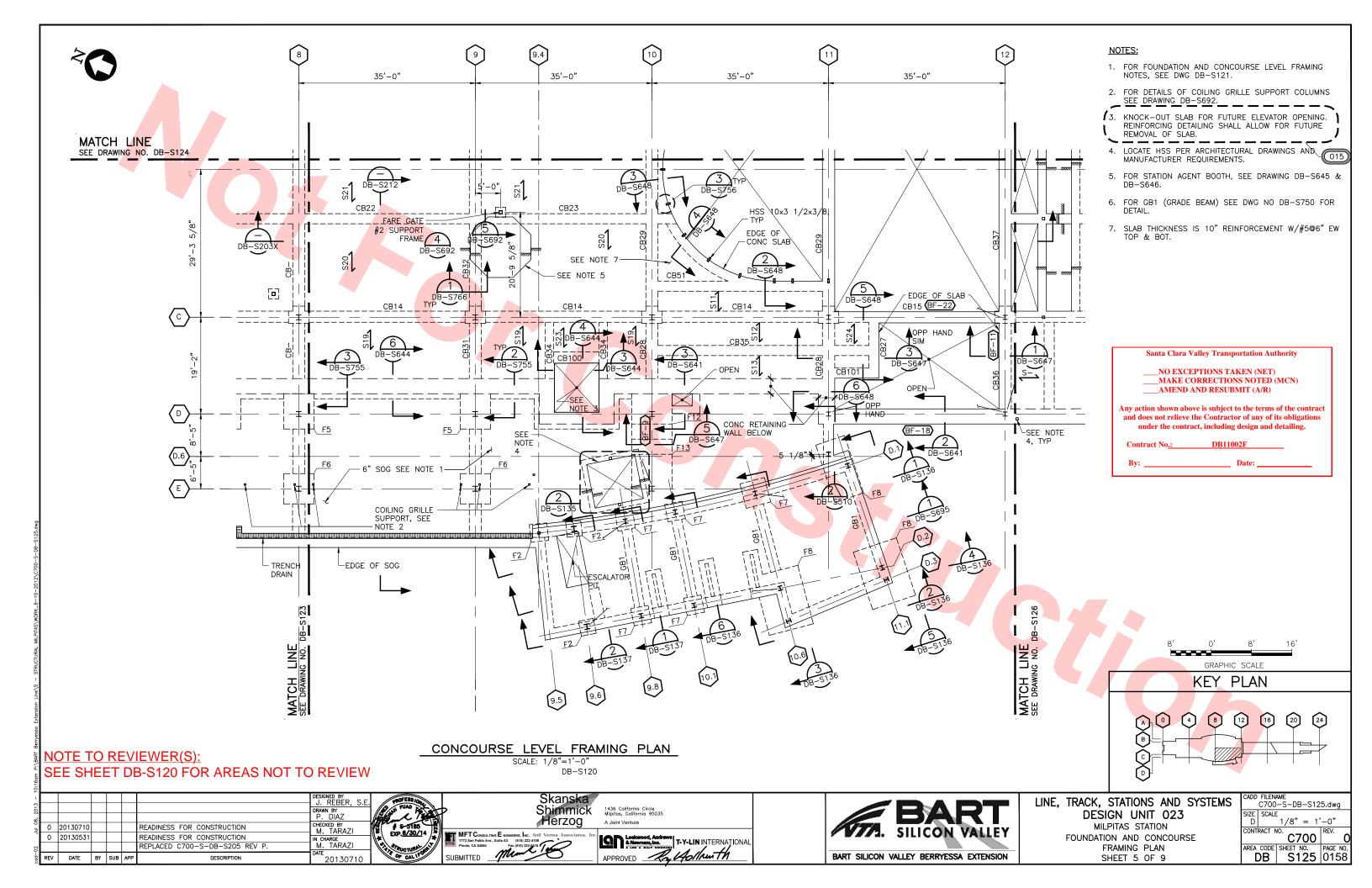
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

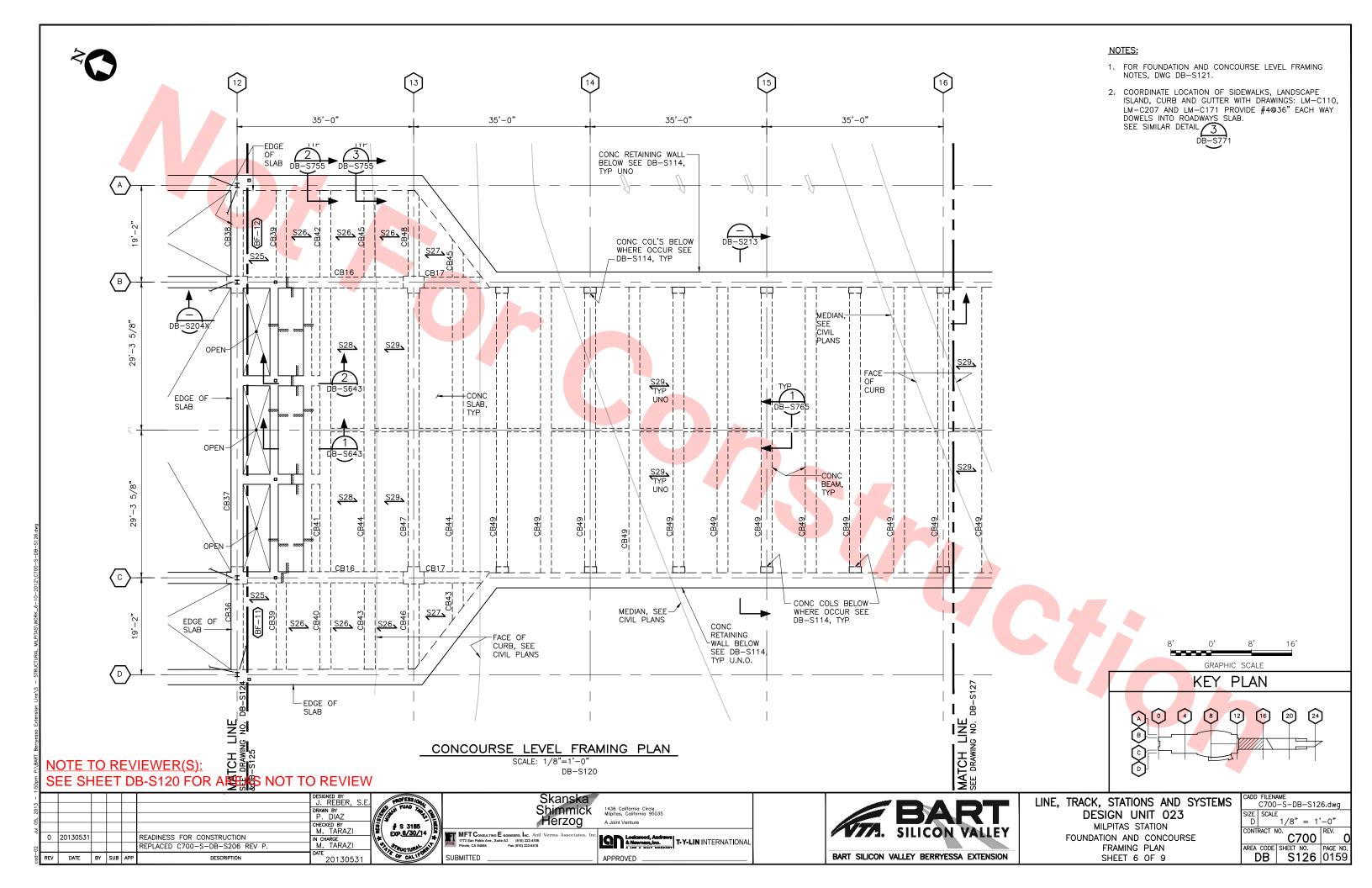
MILPITAS STATION
FOUNDATION AND CONCOURSE
FRAMING PLAN
SHEET 2 OF 9

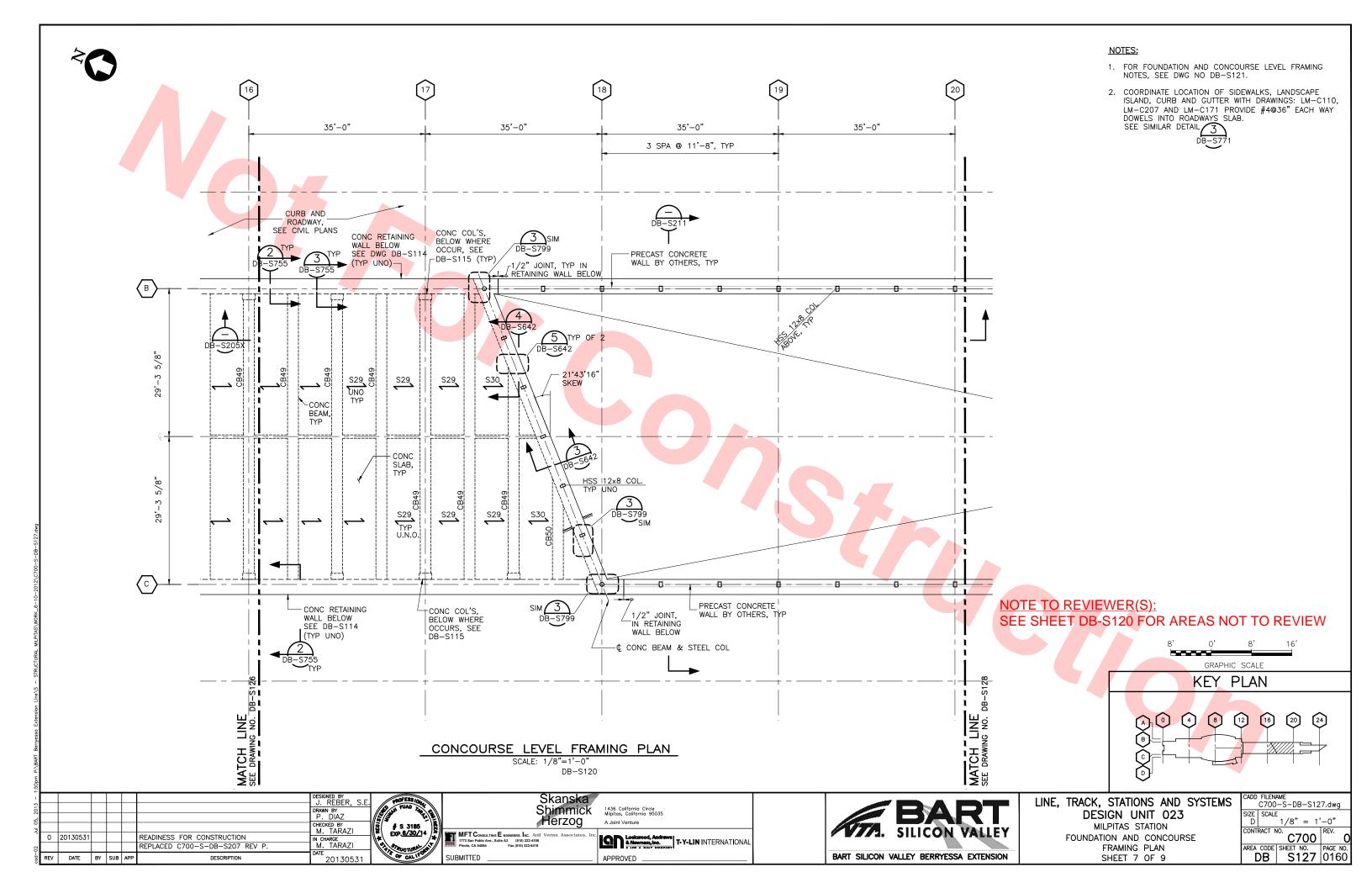
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		CODE B	SHEET NO		PAGE NO. 0155

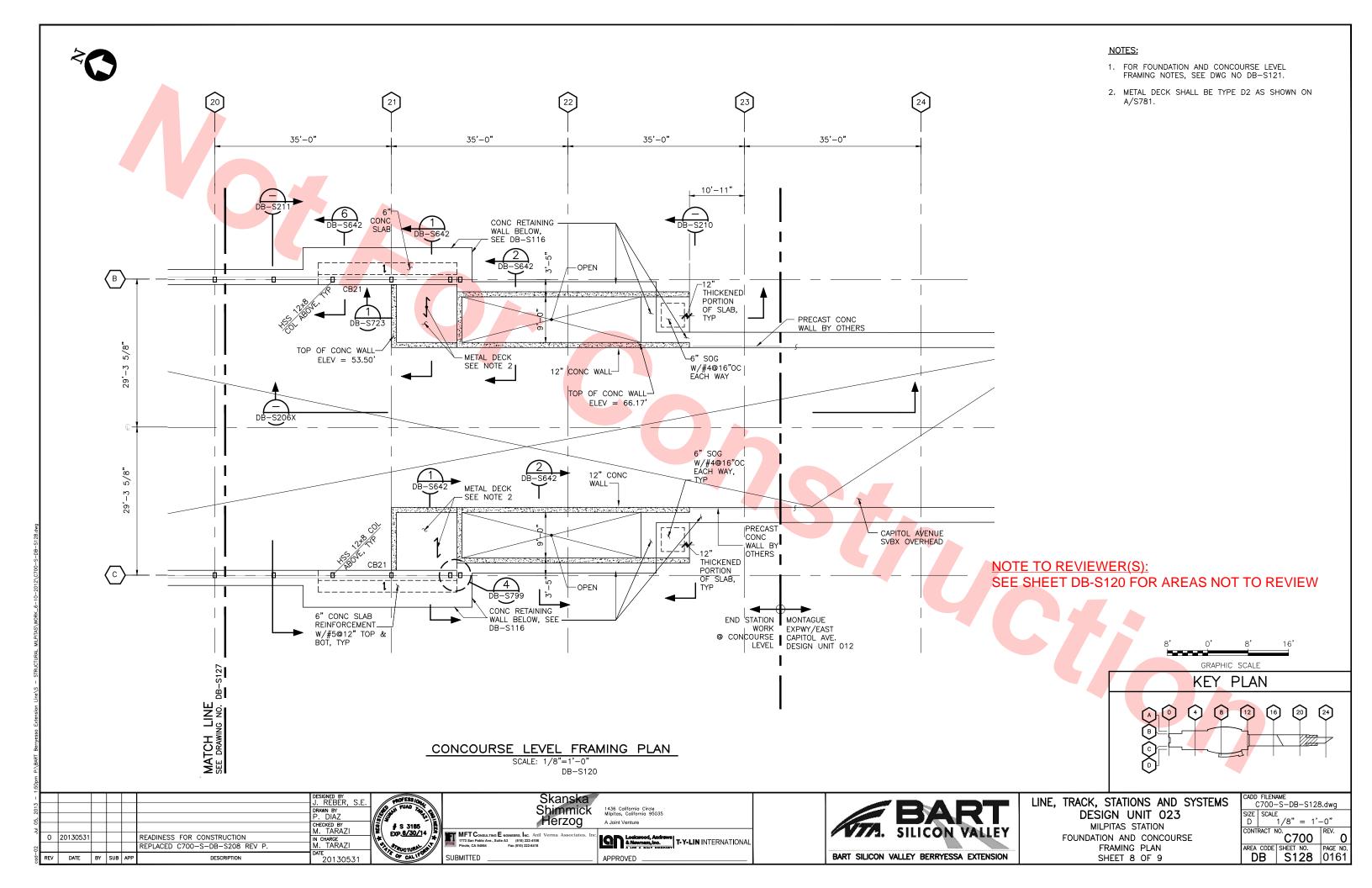












13'-0" -ADD 2#8 TRIM BARS TOP AND BOTTOM $\langle c \rangle$ MATCH LINE
SEE DRAWING NO. DB-S121

NOTES:

FOR FOUNDATION AND CONCOURSE LEVEL FRAMING NOTES, SEE DWG NO DB-S121.



KEY PLAN

CONCOURSE LEVEL FRAMING PLAN

SCALE: 1/8"=1'-0" DB-S070

:50pm P:											
Jul 05, 2013 - 1							DESIGNED BY J. REBER, S.E. DRAWN BY P. DIAZ CHECKED BY M. TARAZI IN CHARGE	# NEO!STATE			
20	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	163			
cad—(REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531				

NOTE TO REVIEWER(S):

S.E.	PROFESSIONAL
	Column Services
	S 3185 EXP.6/30/14
	S. S
31	OF CALIFORN
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C 3185	Skar Shim Herz
P. <u>6/30/1</u> 4	MFT Consulting E ngineers, Inc. Anil Verma As: 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

SUBMITTED

MONTAGUE EXPWY MILPITAS STATION EAST CAPITOL AVE STRUCTURE DESIGN UNIT-012 DU-023

1436 California Circle Milpitas, California 95035 Lockwood, Andrews

& Nowmens, Inc.
LISA DATY COMPARY

T- Y-LIN INTERNATIONAL APPROVED

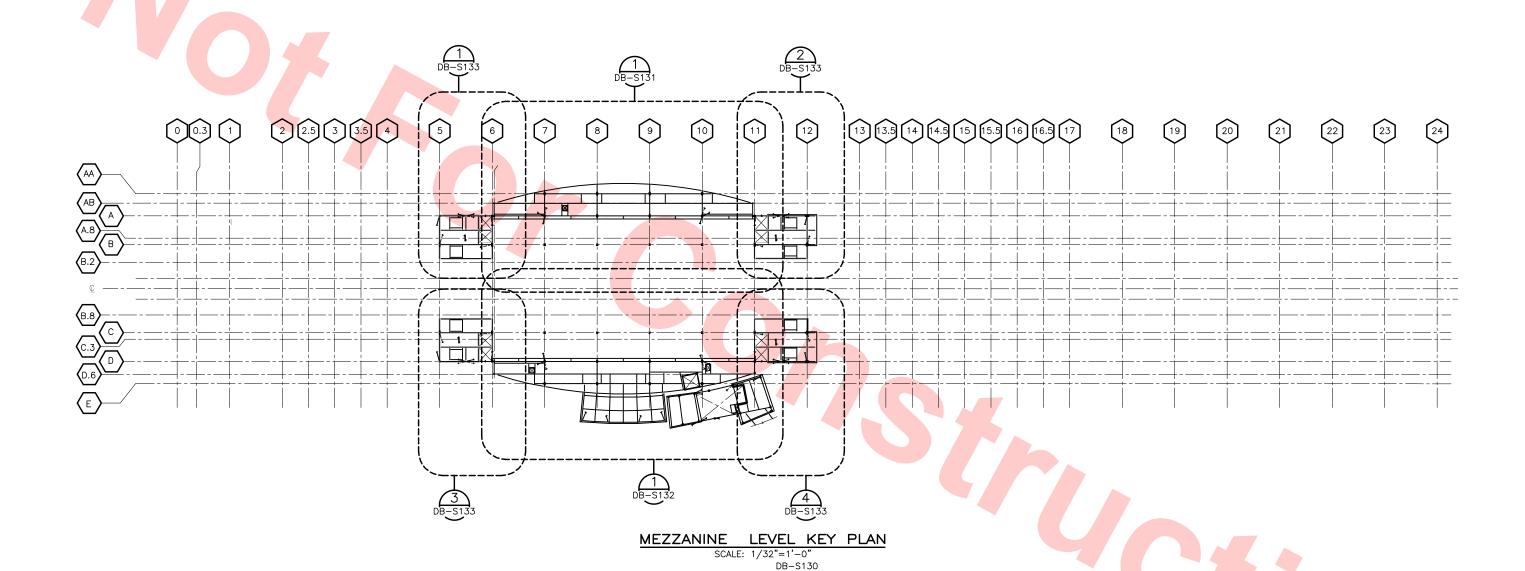


LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION FOUNDATION AND CONCOURSE FRAMING PLAN SHEET 9 OF 9

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Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)

____MAKE CORRECTIONS NOTED (MCN)

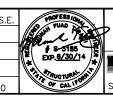
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

8' 0' 8' 16'
GRAPHIC SCALE

						DESIGNED BY J. REBER, S.E.	Ι.
						DRAWN BY	1 //
						P. DIAZ	
						CHECKED BY M. TARAZI	
						IN CHARGE	(•
0	20130710				READINESS FOR CONSTRUCTION	M. TARAZI	//:
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	L





1436 California Circle Milpitas, California 95035 A Joint Venture

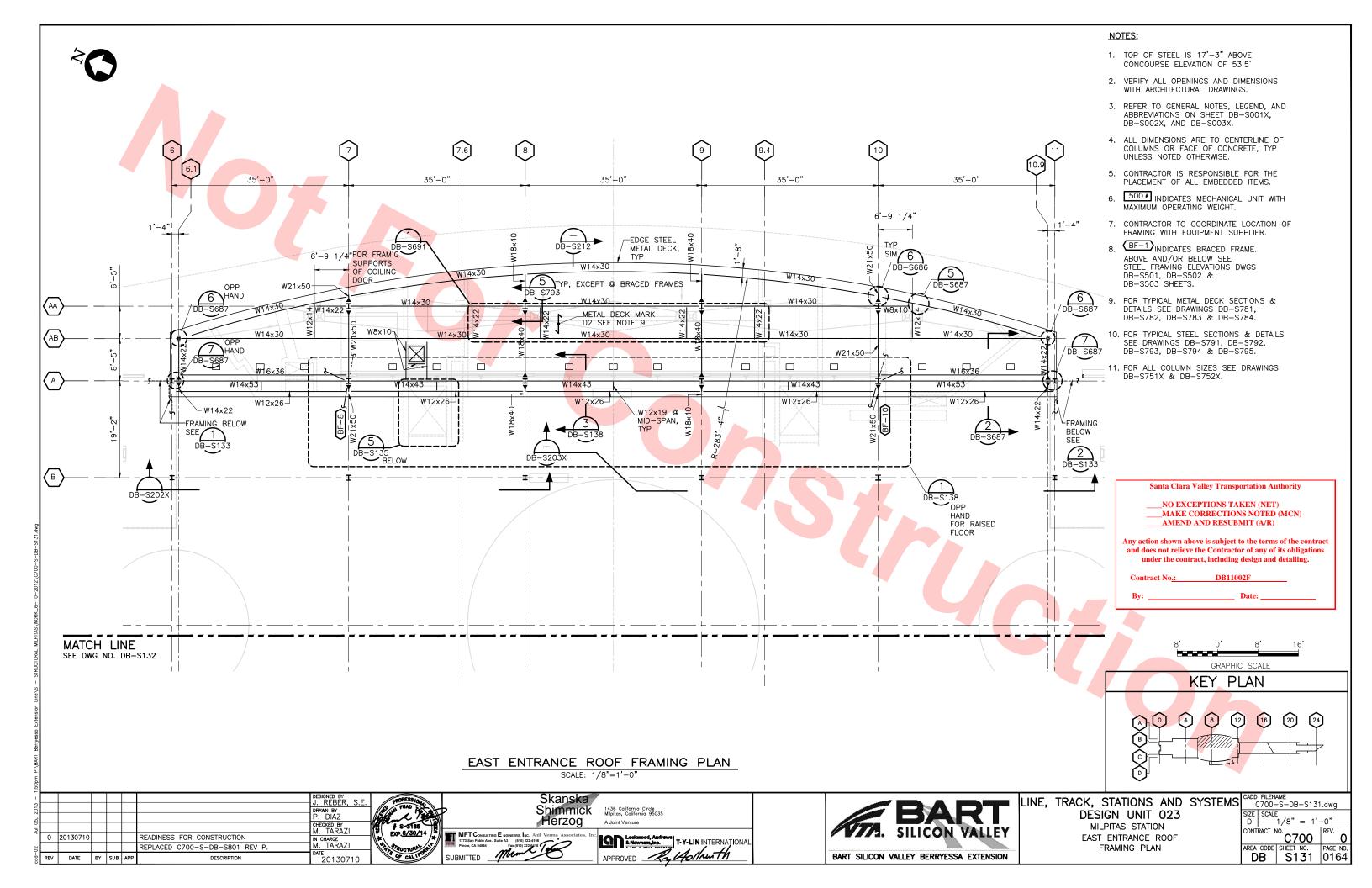


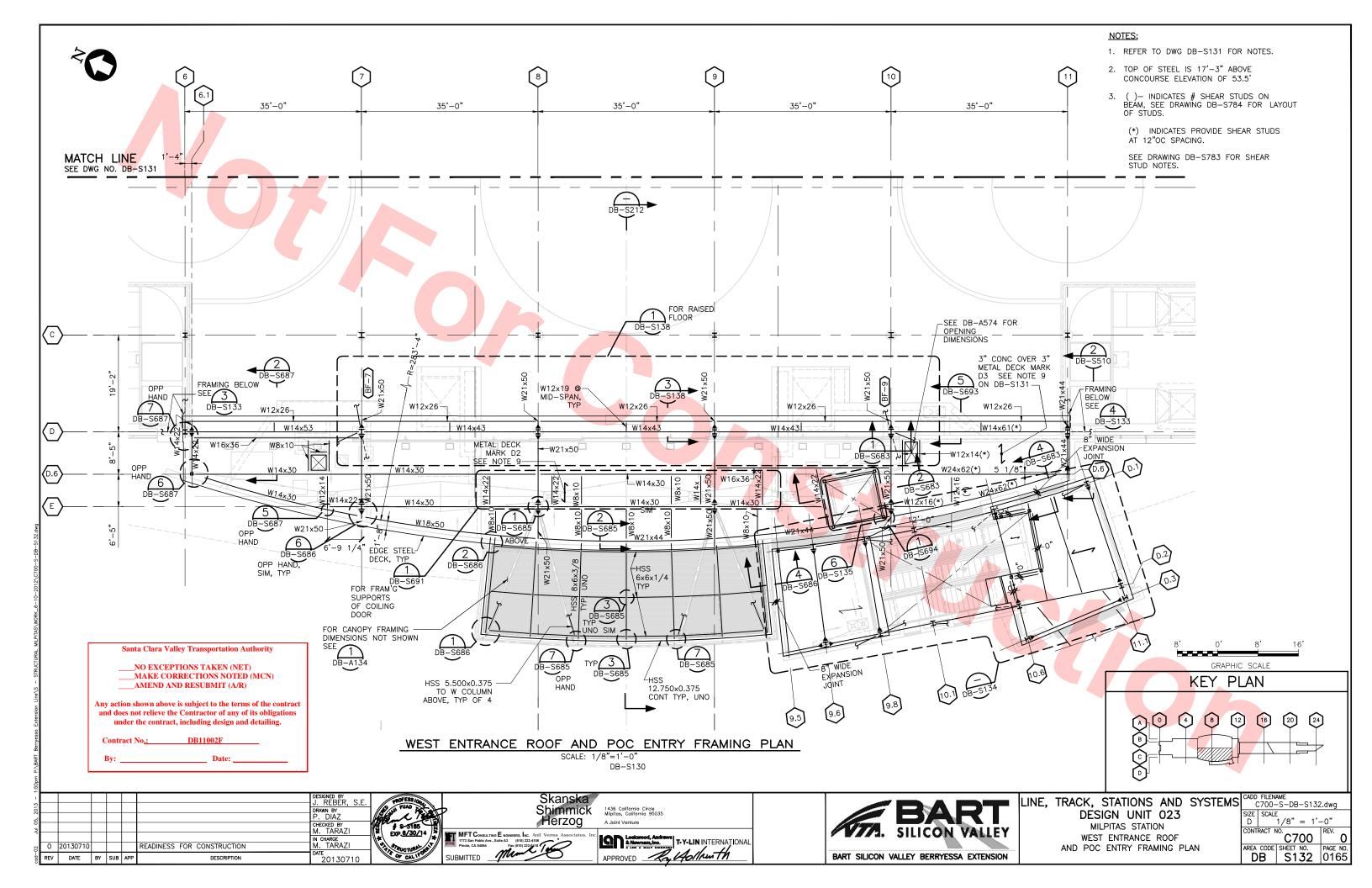


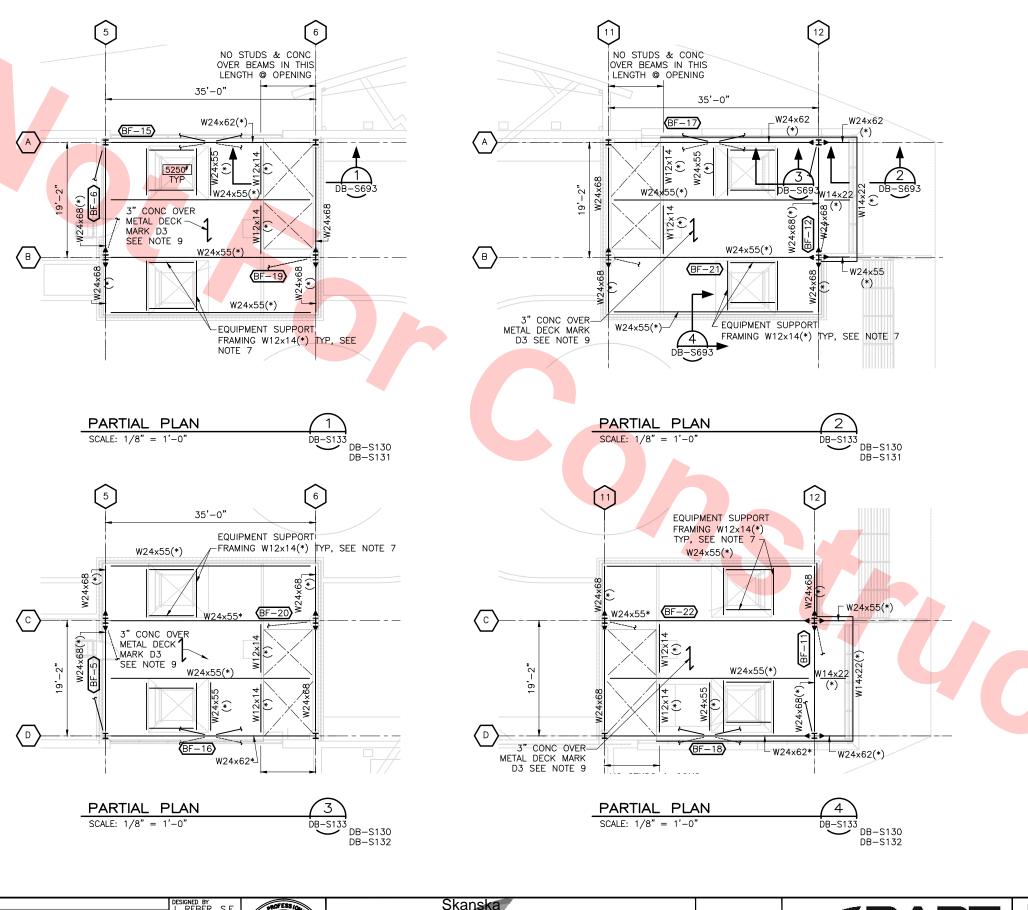
LINE	, TRACK, STATIONS AND SYSTEMS
	DESIGN UNIT 023
	MILPITAS STATION
	MF77ANINE LEVEL FRAMING

KEY PLAN

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Shimmick

Herzog

MFT Consulting E ngineers, Inc. Anil V 1773 San Pablo Ave., Suite A3 (510) 222-4106

CHECKED BY M. TARAZI

IN CHARGE M. TARAZI

20130710

READINESS FOR CONSTRUCTION

REV DATE BY SUB APP

EXP.<u>6/30/1</u>4

1436 California Circle Milpitas, California 95035

APPROVED .

T-Y-LIN INTERNATIONAL

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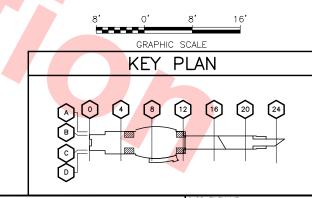
NOTES:

- 1. TOP OF STEEL @ SMOKE CONTROL FAN ROOM LEVEL ELEVATION = 66.81' TYP UNO
- VERIFY ALL OPENINGS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - 3. REFER TO GENERAL NOTES, LEGEND, AND ABBREVIATIONS ON SHEET DB-S003X.
- 4. ALL DIMENSIONS ARE TO CENTERLINE OF COLUMNS OR FACE OF CONCRETE, TYP UNLESS NOTED OTHERWISE.
- 5. CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL EMBEDDED ITEMS.
- 5250 INDICATES MECHANICAL UNIT WITH MAXIMUM OPERATING WEIGHT PER DRAWING DB-M392.
- 7. COORDINATE LOCATION OF FRAMING WITH EQUIPMENT SUPPLIER.
- 8. (BF-1) INDICATES BRACED FRAME ABOVE AND/OR BELOW. SEE "STEEL FRAMING ELEVATION" DRAWINGS DB-S501, DB-S502 & DB-S503 SHEETS.
- FOR TYPICAL METAL DECK SECTIONS & DETAILS SEE DRAWINGS DB-S781, DB-S782, DB-S783 & DB-S784.
- 10. FOR TYPICAL STEEL SECTIONS & DETAILS SEE DRAWINGS DB-S791, DB-S792, DB-S793, DB-S794 & DB-S795.

11. FOR ALL COLUMN SIZES SEE DRAWINGS DB-S751X &

- DB-S752X.
- 12. ()— INDICATES # SHEAR STUDS ON BEAM, SEE DRAWING DB—S784 FOR LAYOUT OF STUDS.
 - (*) INDICATES PROVIDE SHEAR STUDS AT 12"OC SPACING.
- 13. SEE DRAWING DB-S783 FOR SHEAR STUD NOTES.







LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

MILPITAS STATION

SMOKE CONTROL FAN ROOM

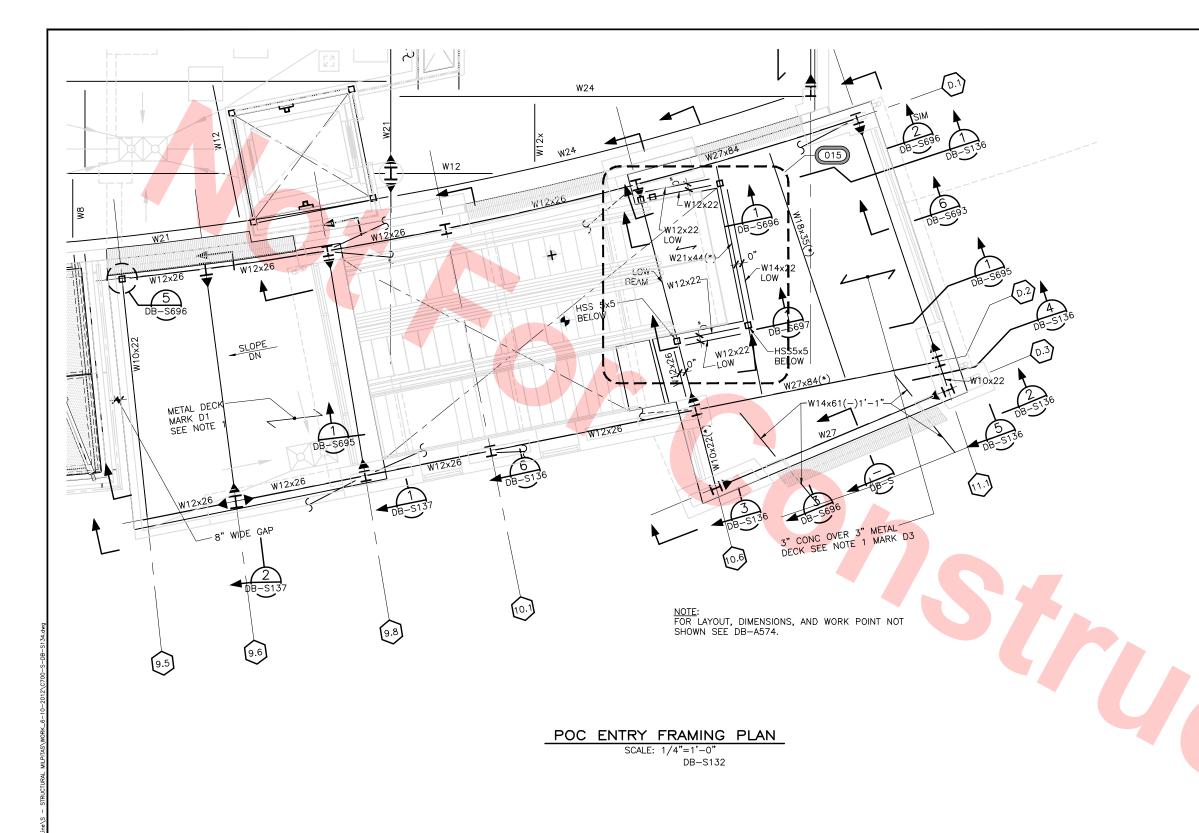
FRAMING PLAN

CADD FILENAME
C700-S-DB-S133.dwg

SIZE
D
1/8" = 1'-0"

CONTRACT NO.
C700

AREA CODE SHEET NO.
DB
S133
0166



NOTES:

- 1. FOR FRAMING NOTES, SEE DRAWING NO DB-S131
- 2. FOR TOP OF STEEL ELEVATION, SEE DB-S136
- 3. FOR BEAM SIZES AT MOMENT FRAMES SEE FRAME ELEVATIONS ON DB-S136 & DB-S137

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

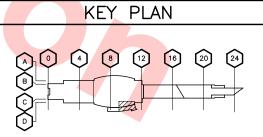
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: ____

8' 0' 8' 16

GRAPHIC SCALE



Skanska Shimmick Herzog MFT Consulting E Ingineers, Iuc. Anil Verma Associates. Inc 1773 San Páblo Ave., Suite A3 (810) 222-4108

1436 California Circle
Milpitas, California 95035

A Joint Venture

Lockwood, Andrews

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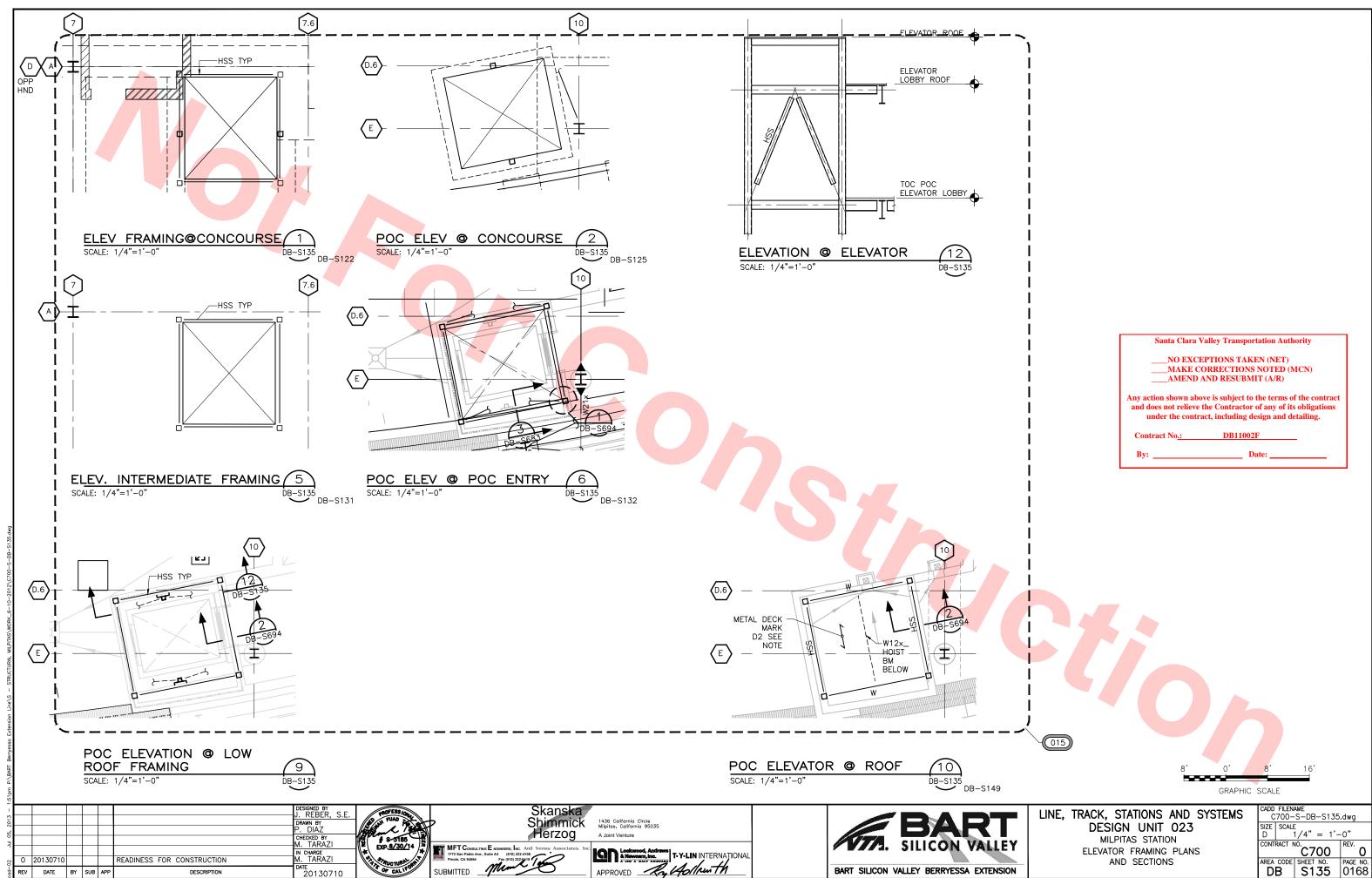


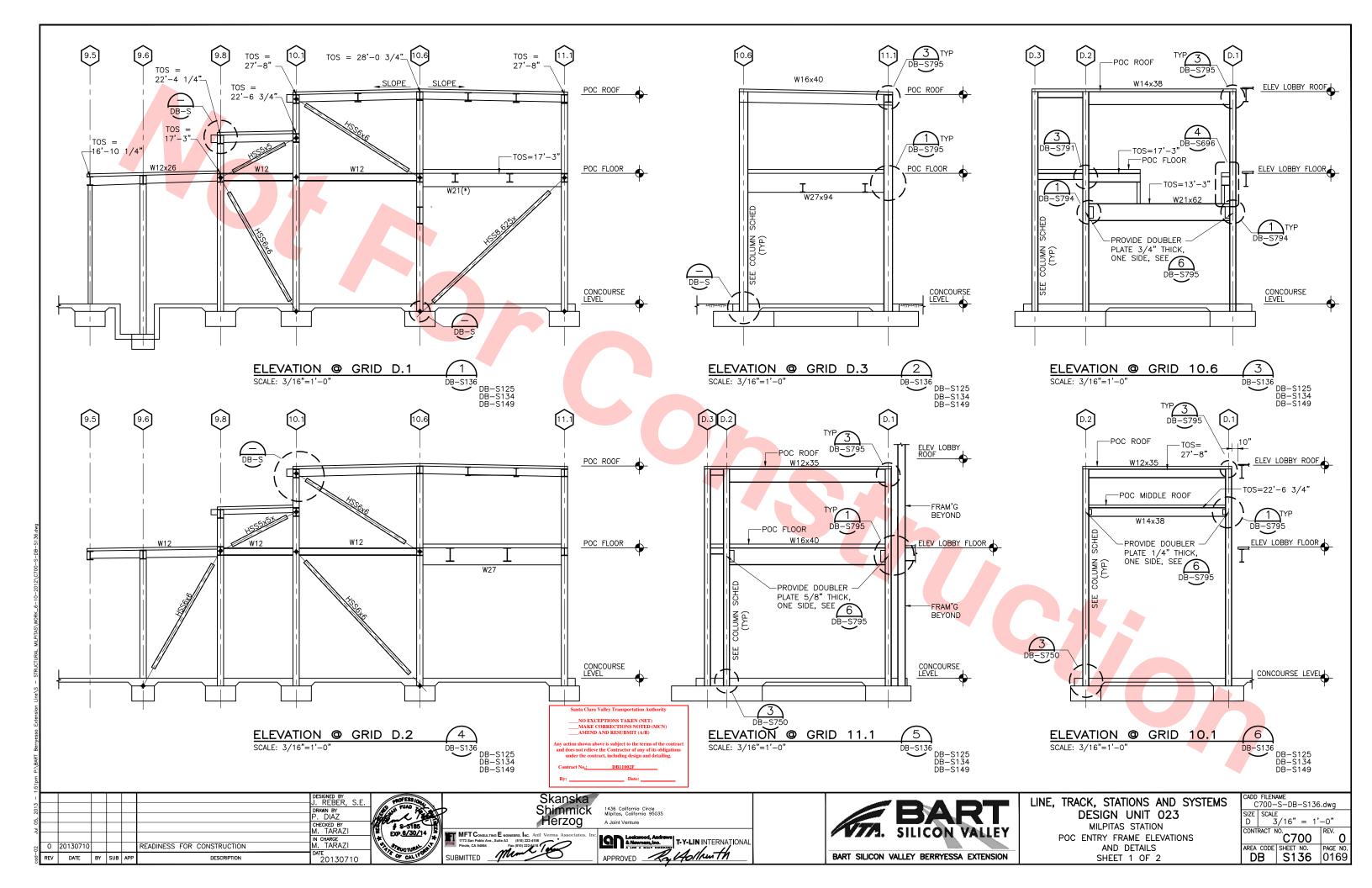
LINE, TRACK, STATIONS AND SYSTEMS

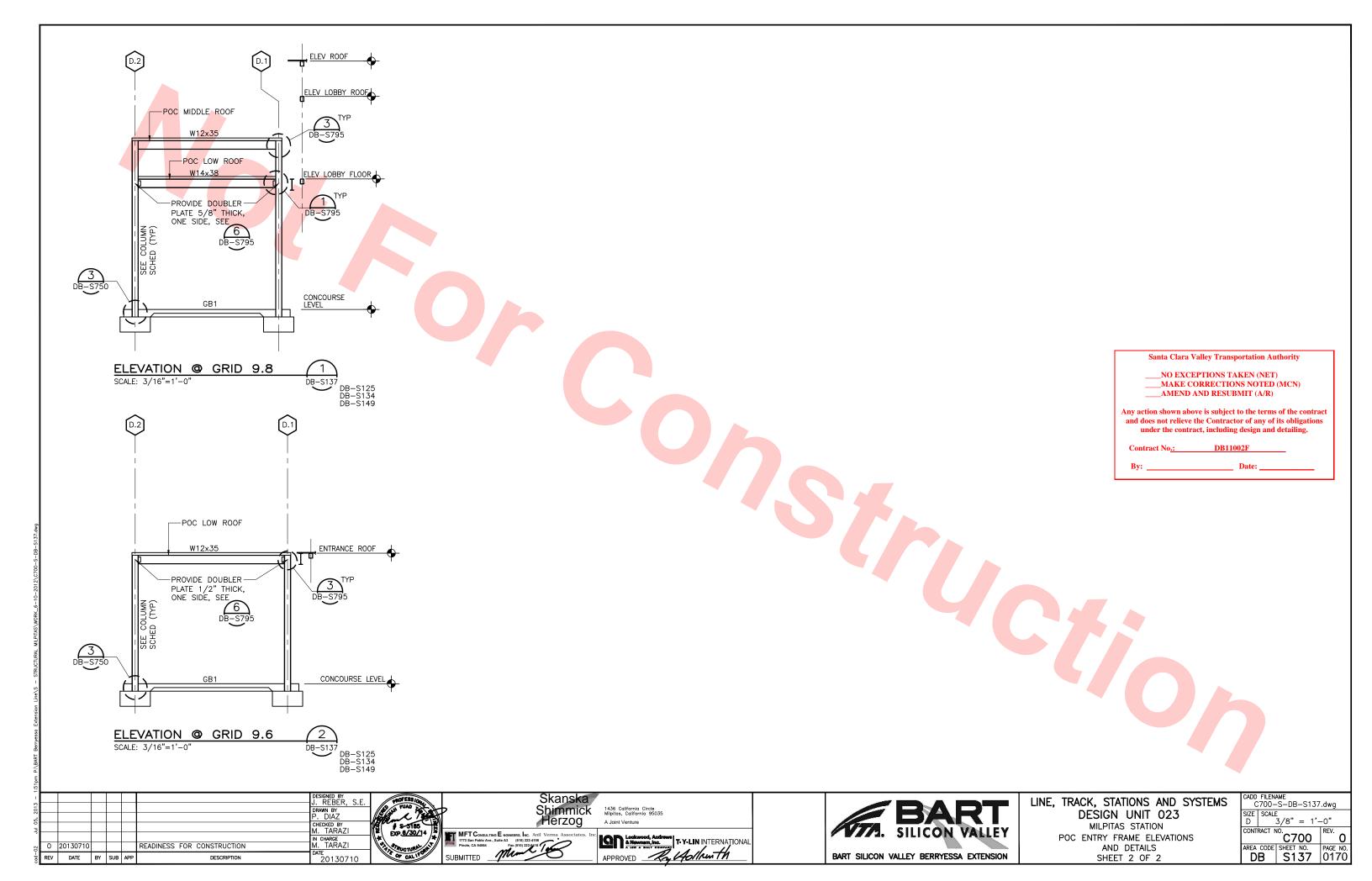
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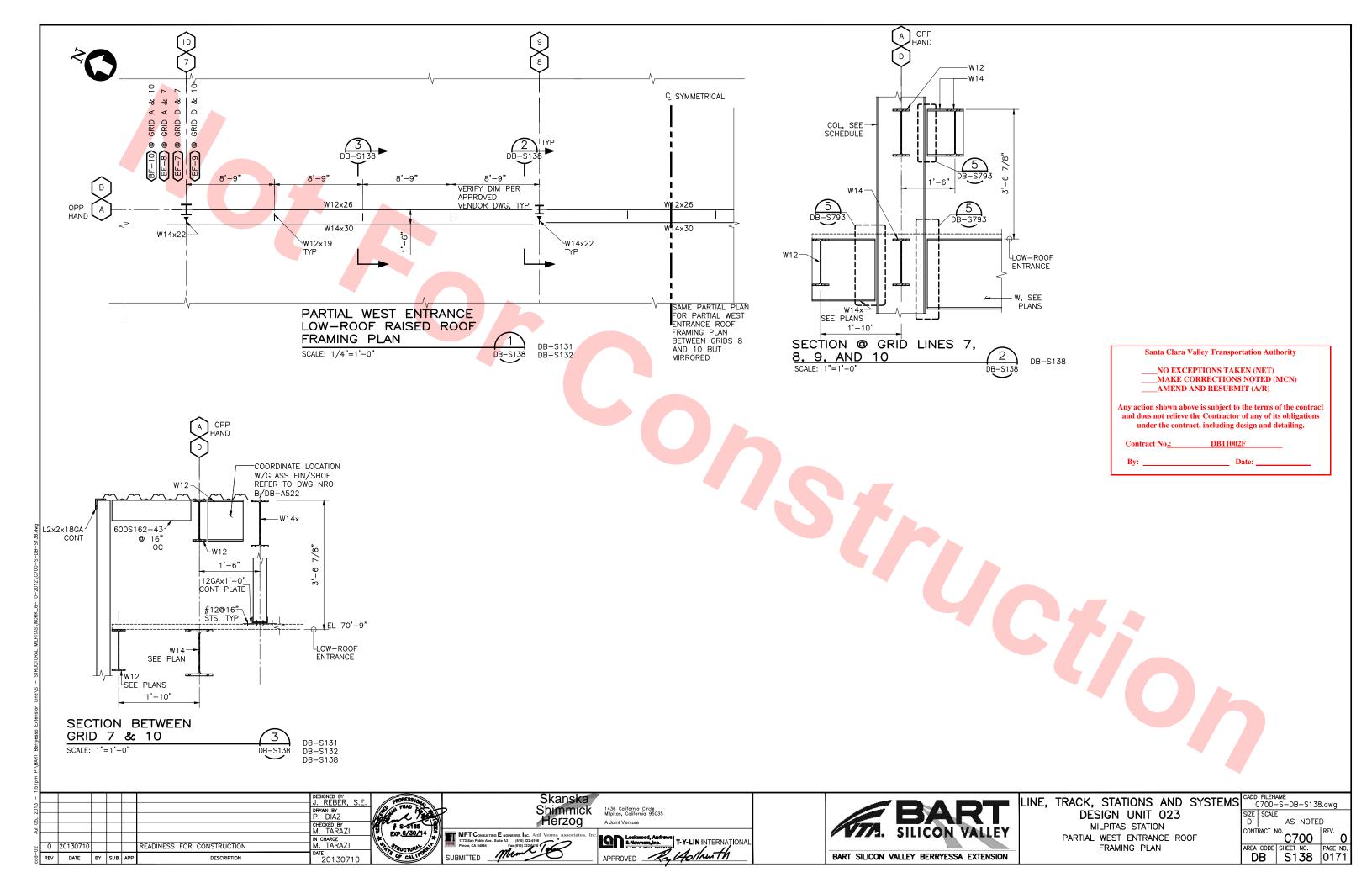
DESIGN UNIT 02 MILPITAS STATION POC ENTRY PARTIAL FRAMING PLAN

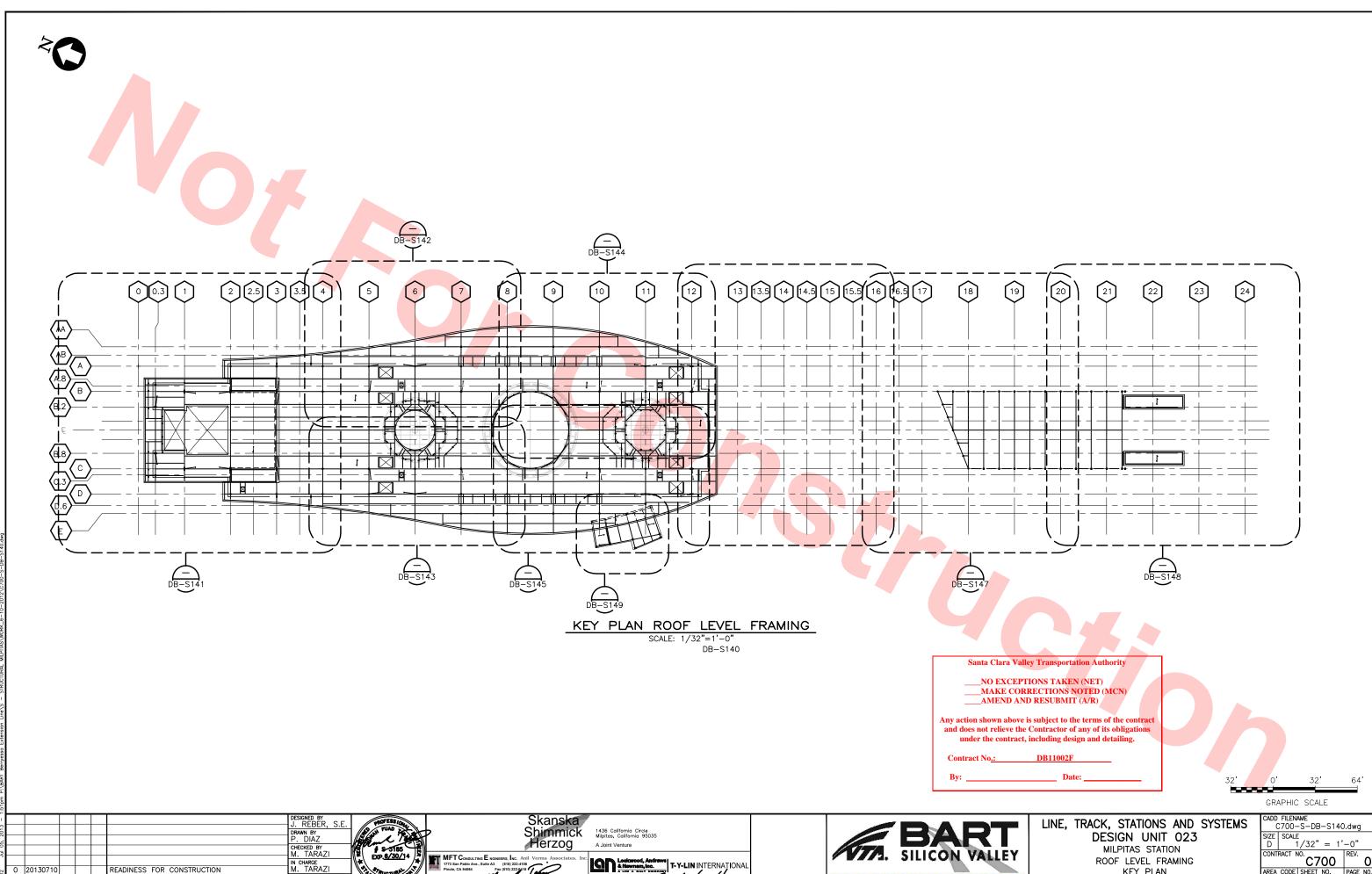
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REV DATE BY SUB APP

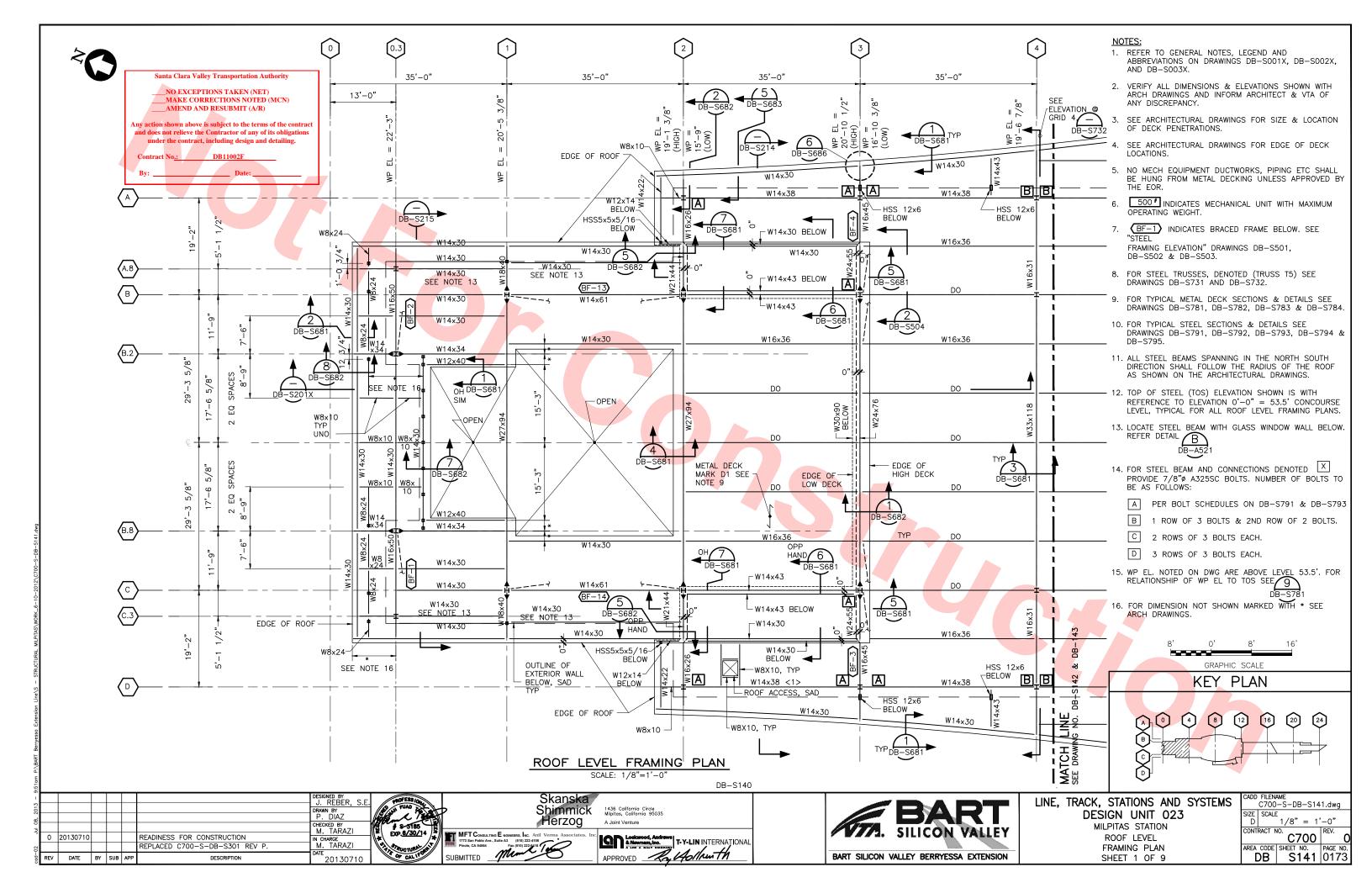
20130710

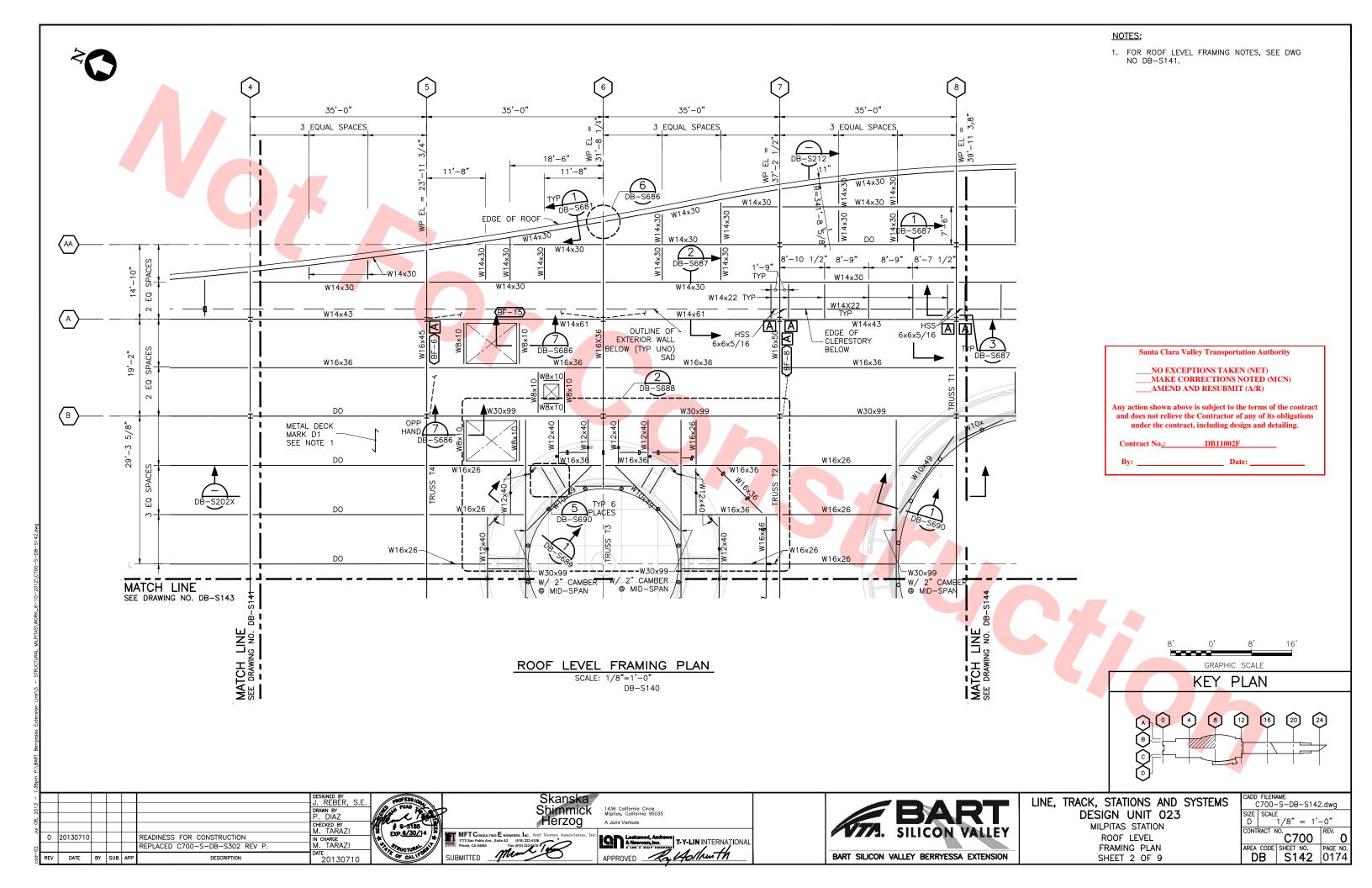


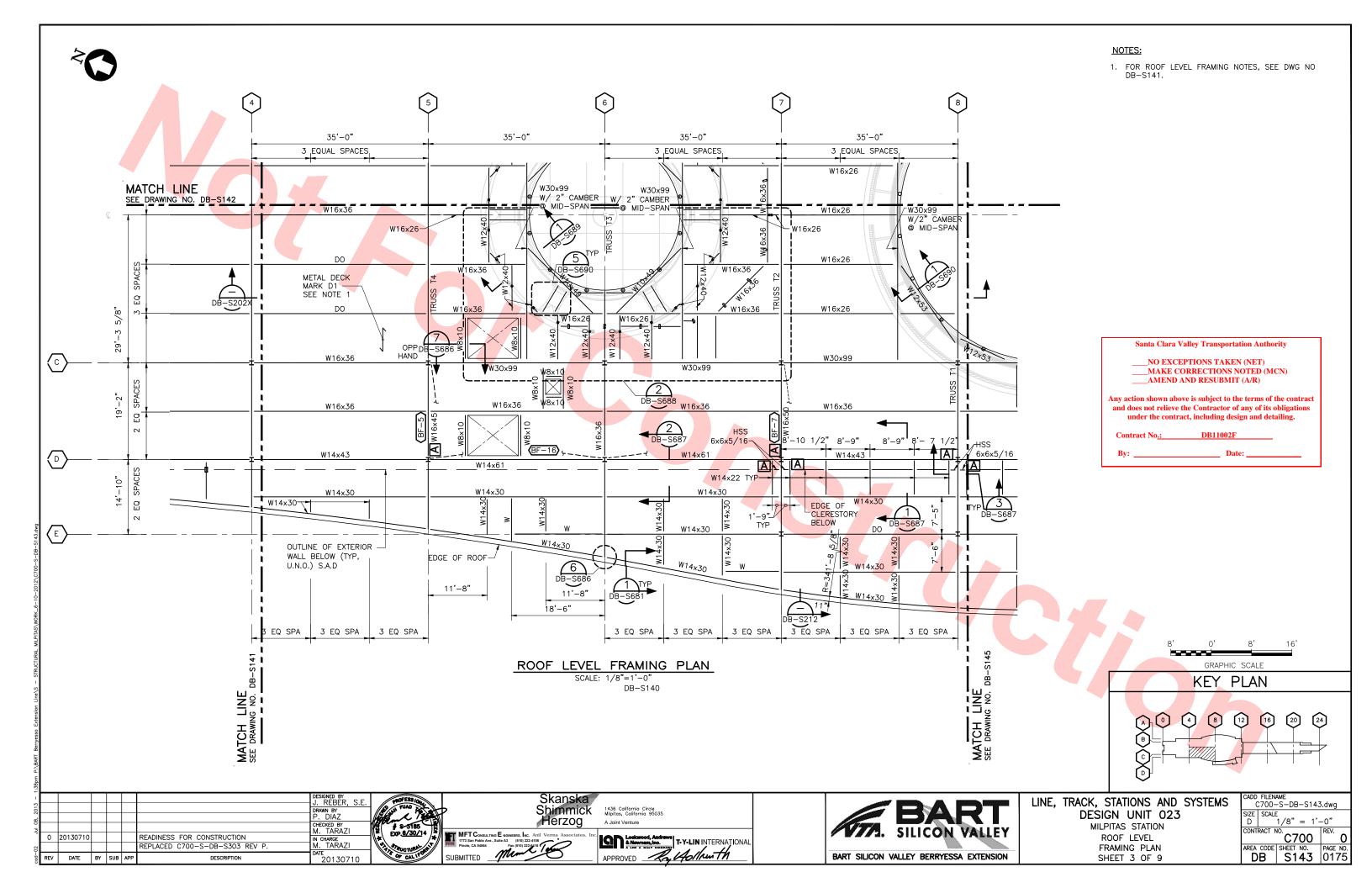


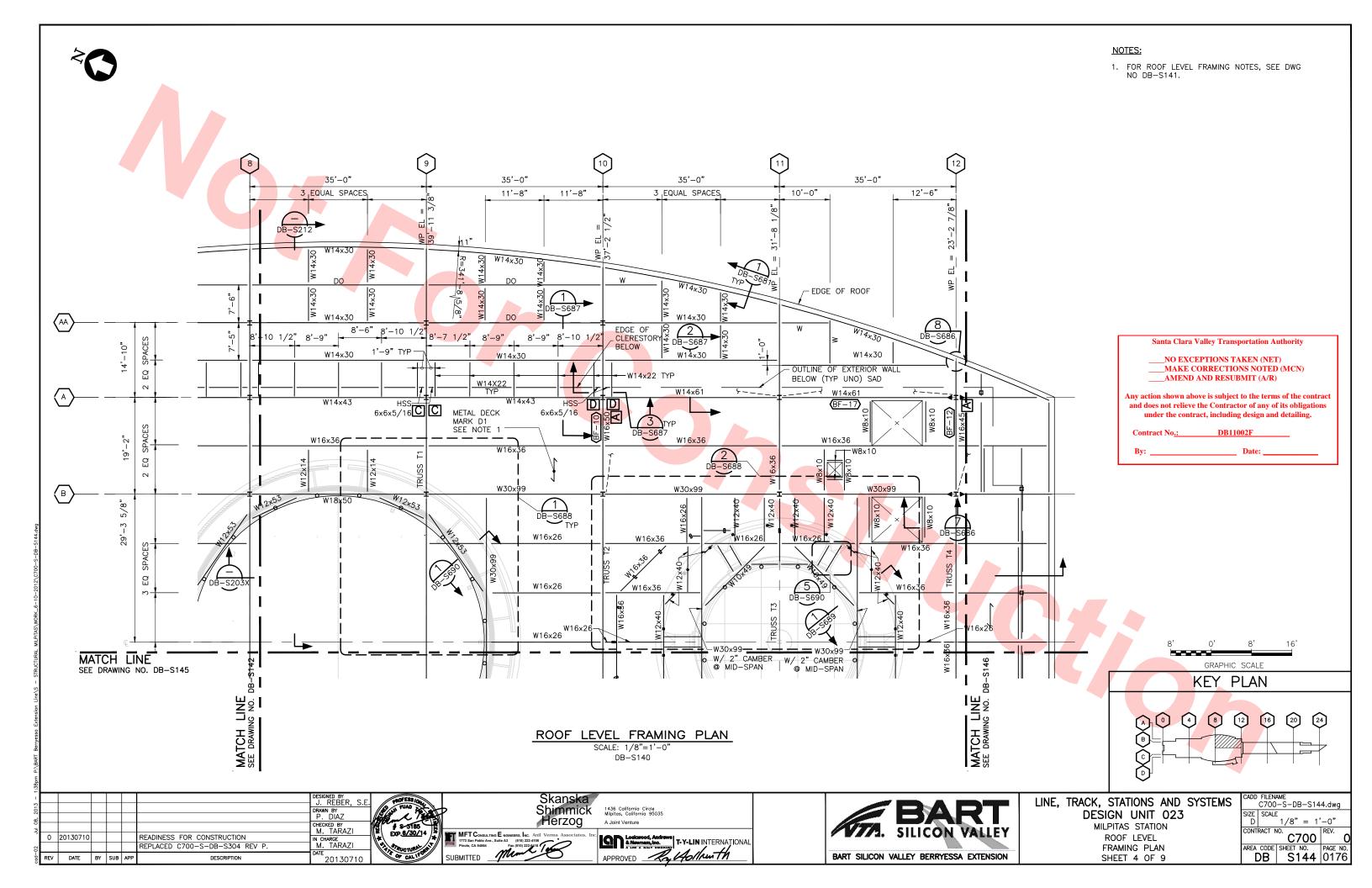
KEY PLAN

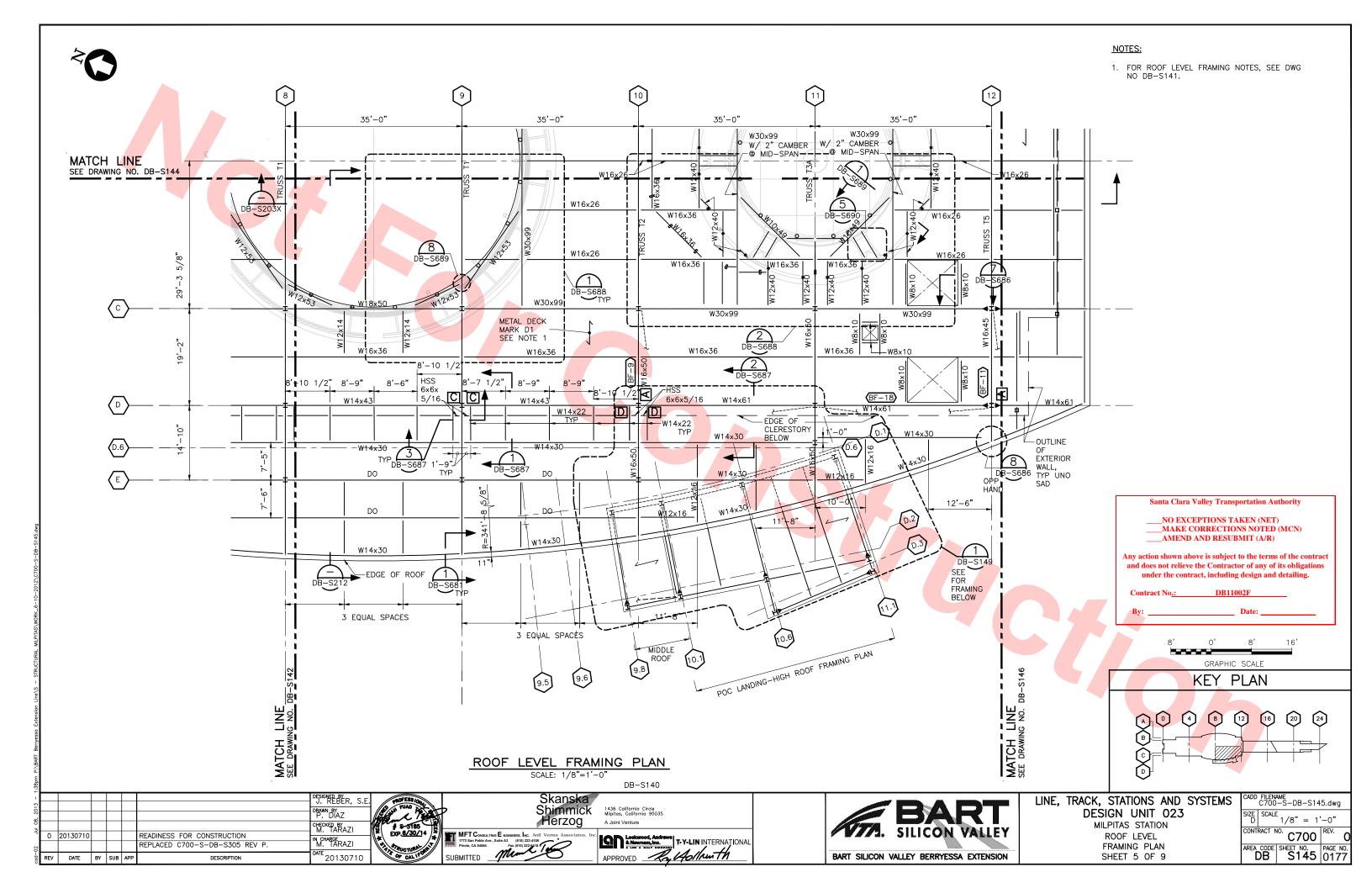
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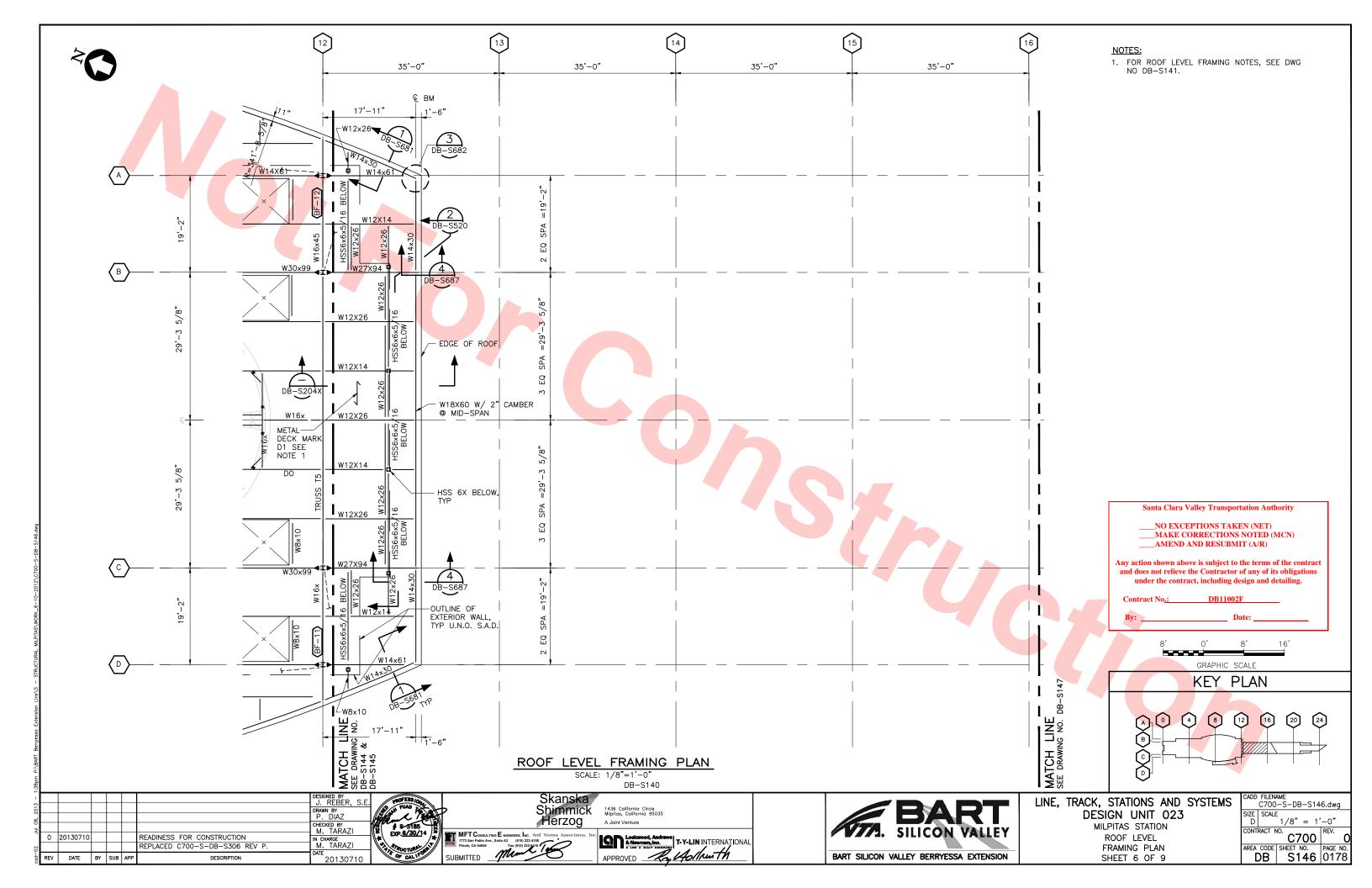












NOTES: FOR ROOF LEVEL FRAMING NOTES, SEE DWG NO DB-S141. 35'-0" 35'-0" 35'-0" 35'-0" —HSS 12x8x1/2 TYP HSS8x8x1/2 TYP HSS8x8 $\times 1/2$ HSS8x8x x1/2 TYP-1/2, TYP Santa Clara Valley Transportation Authority _NO EXCEPTIONS TAKEN (NET)
_MAKE CORRECTIONS NOTED (MCN) _AMEND AND RESUBMIT (A/R) Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing. -HSS8x8x1/2, TYP MATCH LINE SEE DRAWING NO. DB-S146 GRAPHIC SCALE MATCH LINE SEE DRAWING NO. D KEY PLAN ROOF LEVEL FRAMING PLAN SCALE: 1/8"=1'-0" DB-S140 Skanska Shimmick Herzog ADD FILENAME C700-S-DB-S147.dwg LINE, TRACK, STATIONS AND SYSTEMS 1436 California Circle Milpitas, California 95035 SIZE | SCALE | 1/8" = 1'-0" DESIGN UNIT 023 CHECKED BY
M. TARAZI MILPITAS STATION C700 REV. 0.1 PAGE NO. DB S147 0179 MFT Consulting E ngineers, Inc. Anil V.

1773 San Pablo Ave., Suite A3 (510) 222-4106
Pinole, CA 94564 Fax (510) 222-6418 Lockwood, Androws

A November 17-Y-LIN INTERNATIONAL

APPROVED 1997

A MARCHANIA PROVED 1997

A NOVEMBER 199 0 20130710 READINESS FOR CONSTRUCTION ROOF LEVEL IN CHARGE M. TARAZI REPLACED C700-S-DB-S307 REV F FRAMING PLAN 2<u>0130710</u> BART SILICON VALLEY BERRYESSA EXTENSION SHEET 7 OF 9 REV DATE BY SUB APP

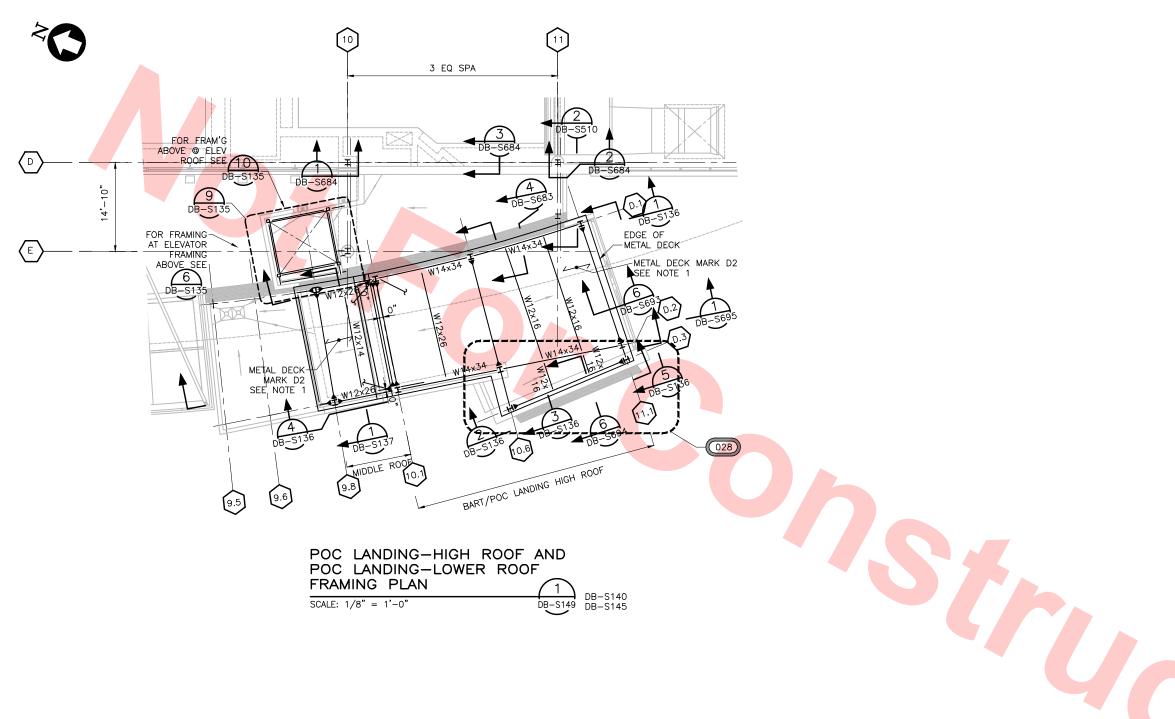
NOTES: FOR ROOF LEVEL FRAMING NOTES, SEE DWG NO DB-S141. 24 35'-0" 35'-0" 35'-0" 35'-0" TOP OF CONC WALL 10'-11" | ELEV = 66.17'12x8x1/2 -HSS8x8x1/2, TYP L4x4x1/4 LEDGER, TYP SLOPE DN DB-S723 METAL DECK MARK D3 W/3" CONC OVER METAL DECK W/#4@12" EW — CONC WALL METAL DECK LHSS8x8x1/2 TYP MARK D3 W/3" CONC OVER METAL DECK -CONC WALL -W/#4@12" EW SLOPE DN Santa Clara Valley Transportation Authority _NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) _AMEND AND RESUBMIT (A/R) L4x4x1/4 — LEDGER, TYP -HSS8x8x1/2, TYP Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing. END OF MONTAGUE
STATION WORK EXPWY/EAST
© CONCOURSE CAPITOL AVE.
LEVEL DESIGN UNIT 012 -HSS 12x8x1/2 COL GRAPHIC SCALE KEY PLAN ROOF LEVEL FRAMING PLAN SCALE: 1/8"=1'-0" DB-S140 Skanska Shimmick Herzog ADD FILENAME C700-S-DB-S148.dwg LINE, TRACK, STATIONS AND SYSTEMS 1436 California Circle Milpitas, California 95035 SIZE | SCALE | 1/8 = 1'-0" **DESIGN UNIT 023** CHECKED BY
M. TARAZI \$ \$ 3185 EXP.<u>6/30/1</u>4 MILPITAS STATION MFT Consulting E ngineers, Inc. Anil Vo.
1773 San Pablo Ave., Suite A3 (510) 222-4106
Pinole, CA 94564 Fax (510) 222-6418 C700 REV. 0

AREA CODE SHEET NO. PAGE NO. 0180 0 20130710 READINESS FOR CONSTRUCTION ROOF LEVEL Lectowood, Andrews

A Novaman, inc.

APPROVED

Ly Hollingth IN CHARGE M. TARAZI REPLACED C700-S-DB-S308 REV F FRAMING PLAN 2<u>0130710</u> BART SILICON VALLEY BERRYESSA EXTENSION SHEET 8 OF 9 REV DATE BY SUB APP

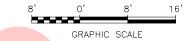


POC LANDING-HIGH ROOF AND POC LANDING-LOWER ROOF FRAMING PLAN DB-S140 DB-S149 DB-S145 SCALE: 1/8" = 1'-0"

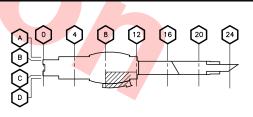
Santa Clara Valley Transportation Authority

_NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

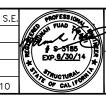
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.



KEY PLAN



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2013							DRAWN BY P. DIAZ	//4
- 2							DESIGNED BY J. REBER, S.E.	؍ ا
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1436 California Circle Milpitas, California 95035

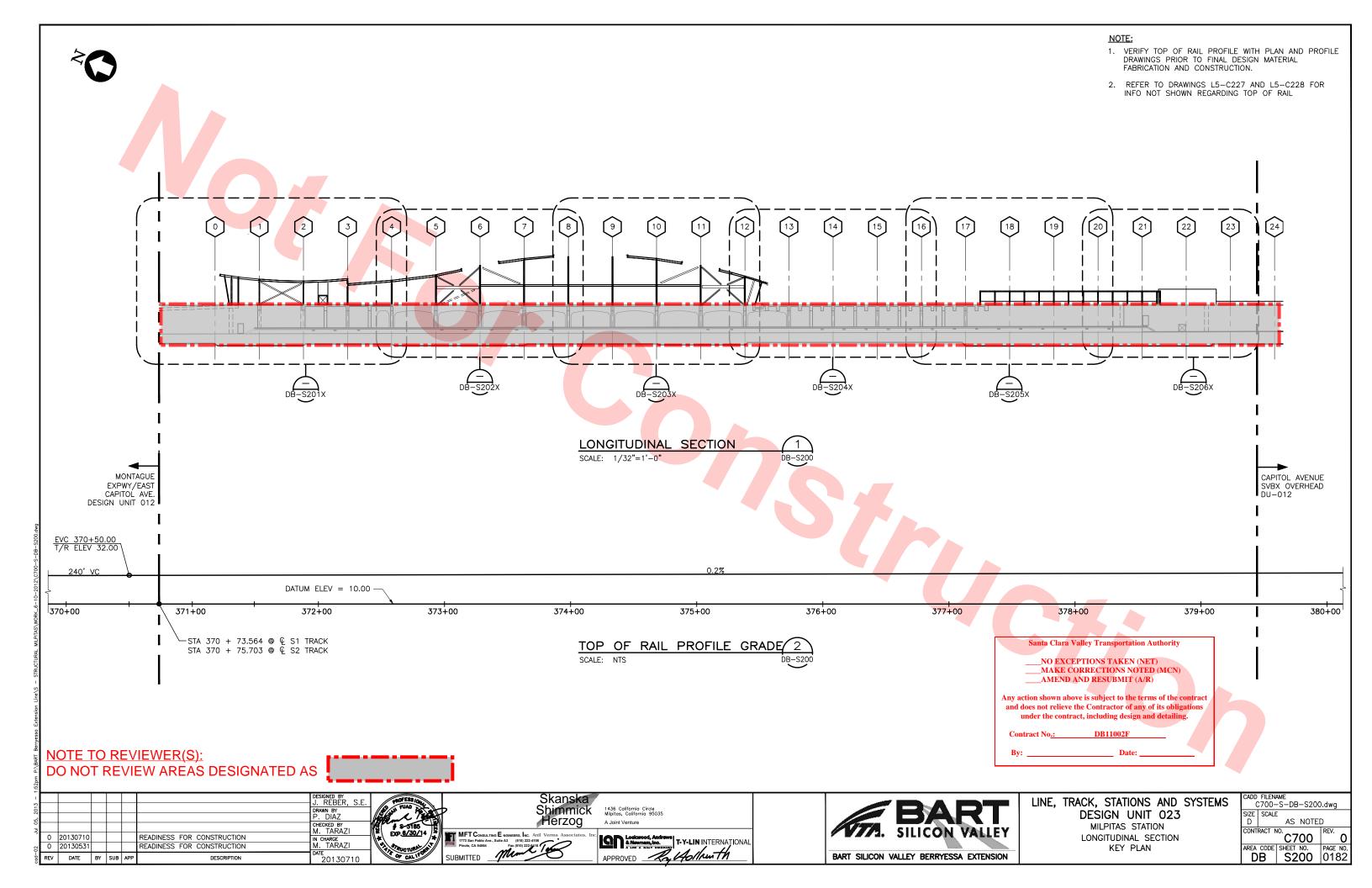


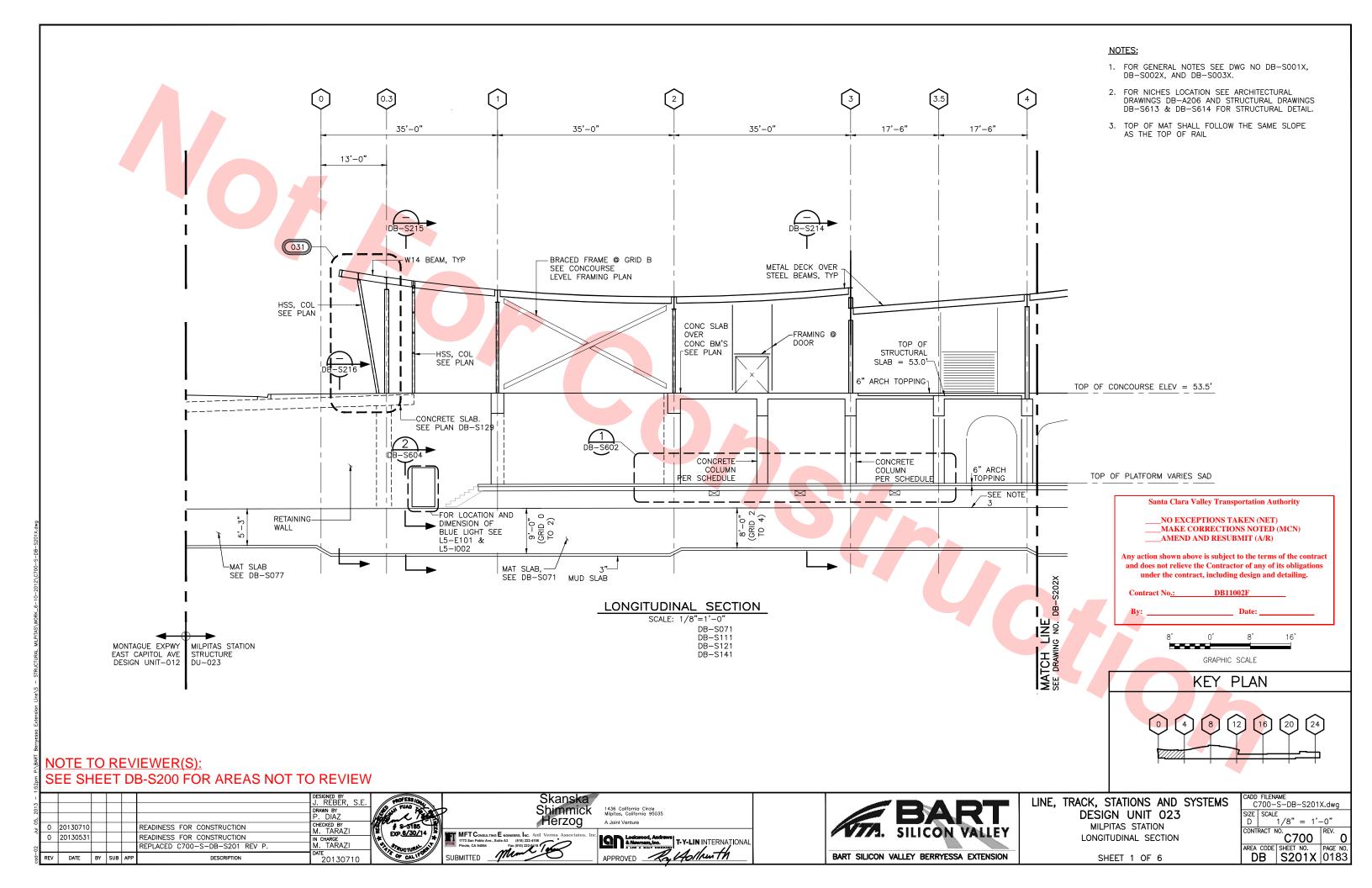


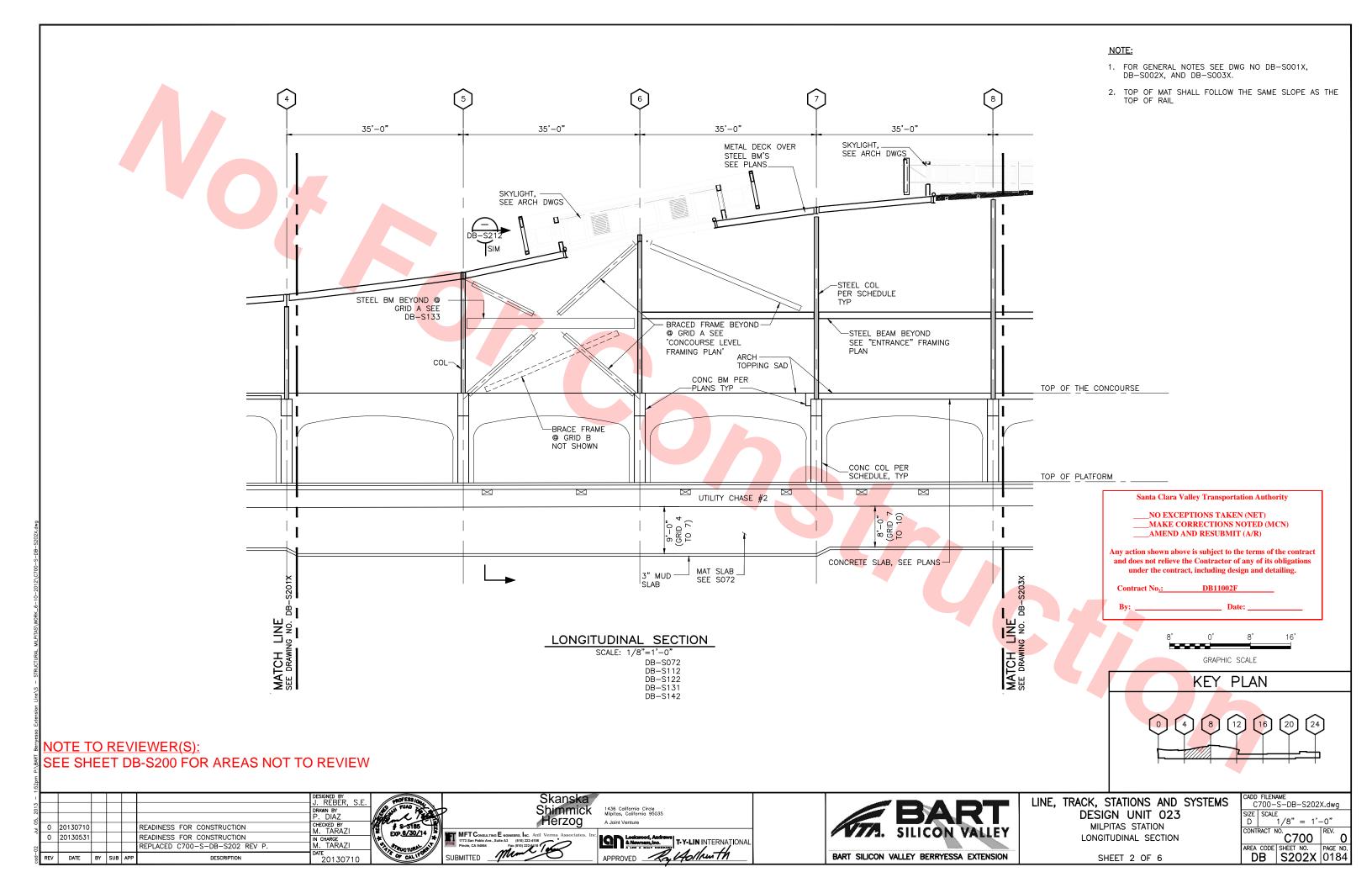
LINE, TRACK, STATIONS AND SYSTE DESIGN UNIT 023

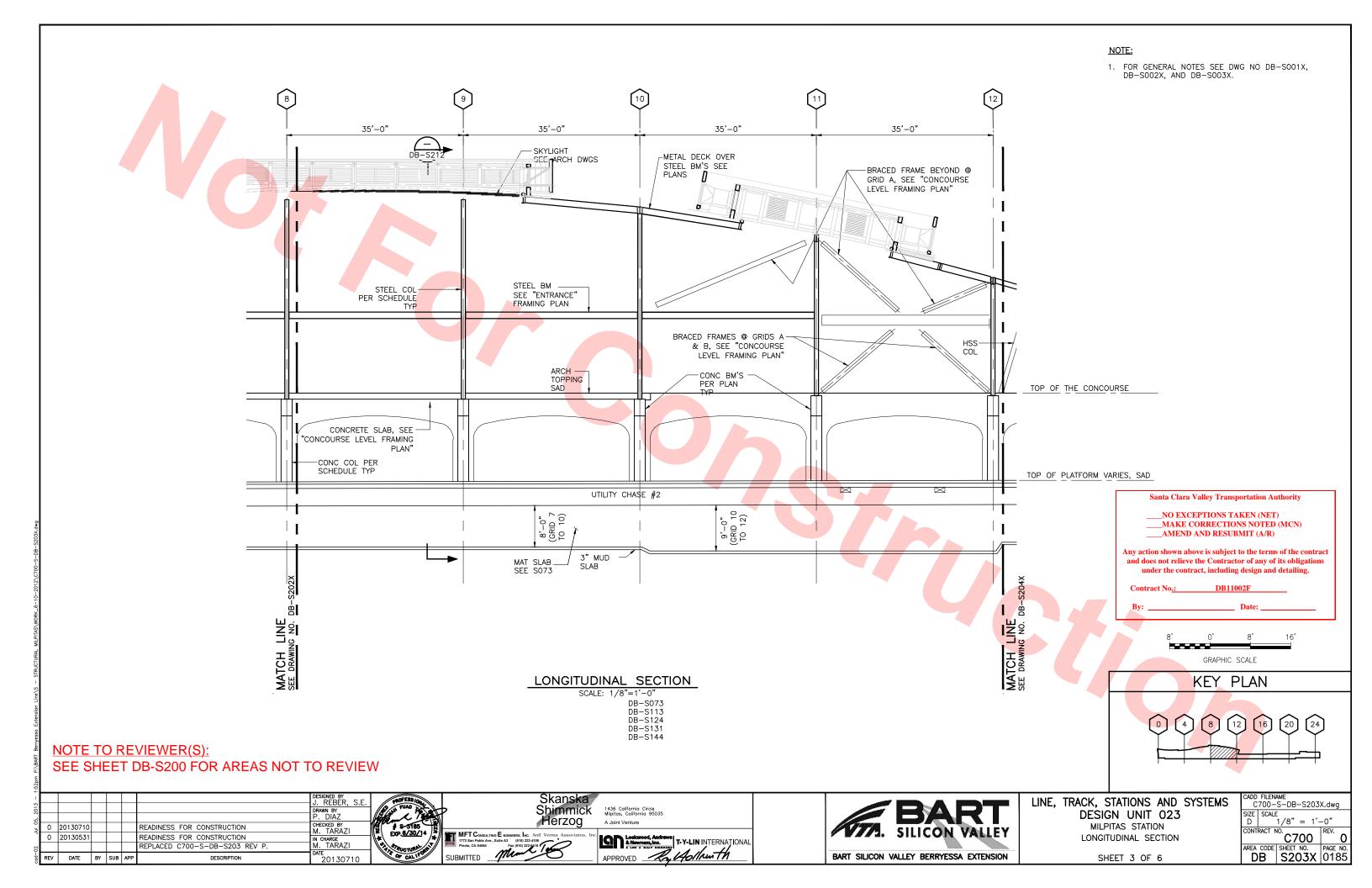
MILPITAS STATION ROOF LEVEL FRAMING PLAN SHEET 9 OF 9

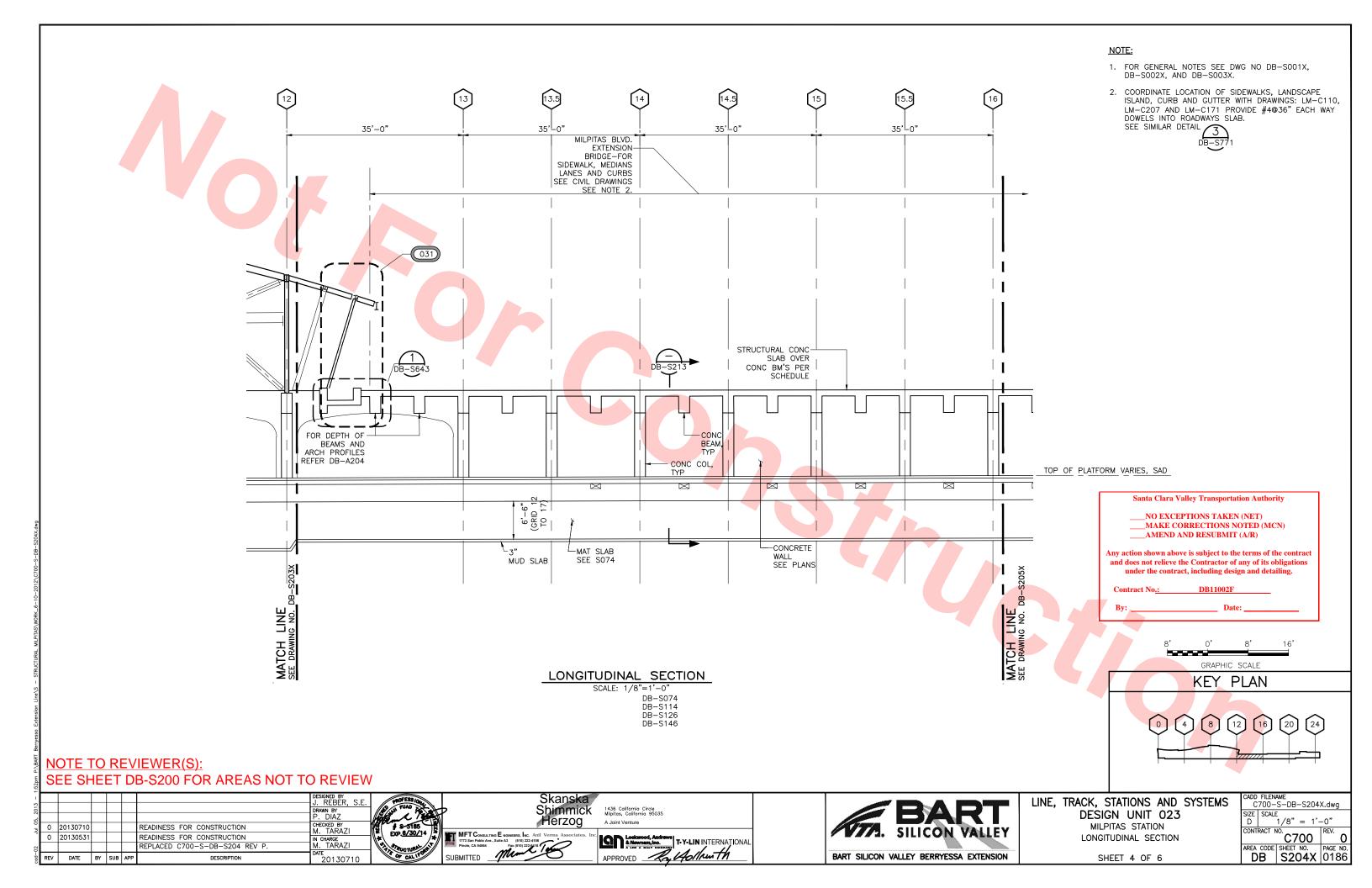
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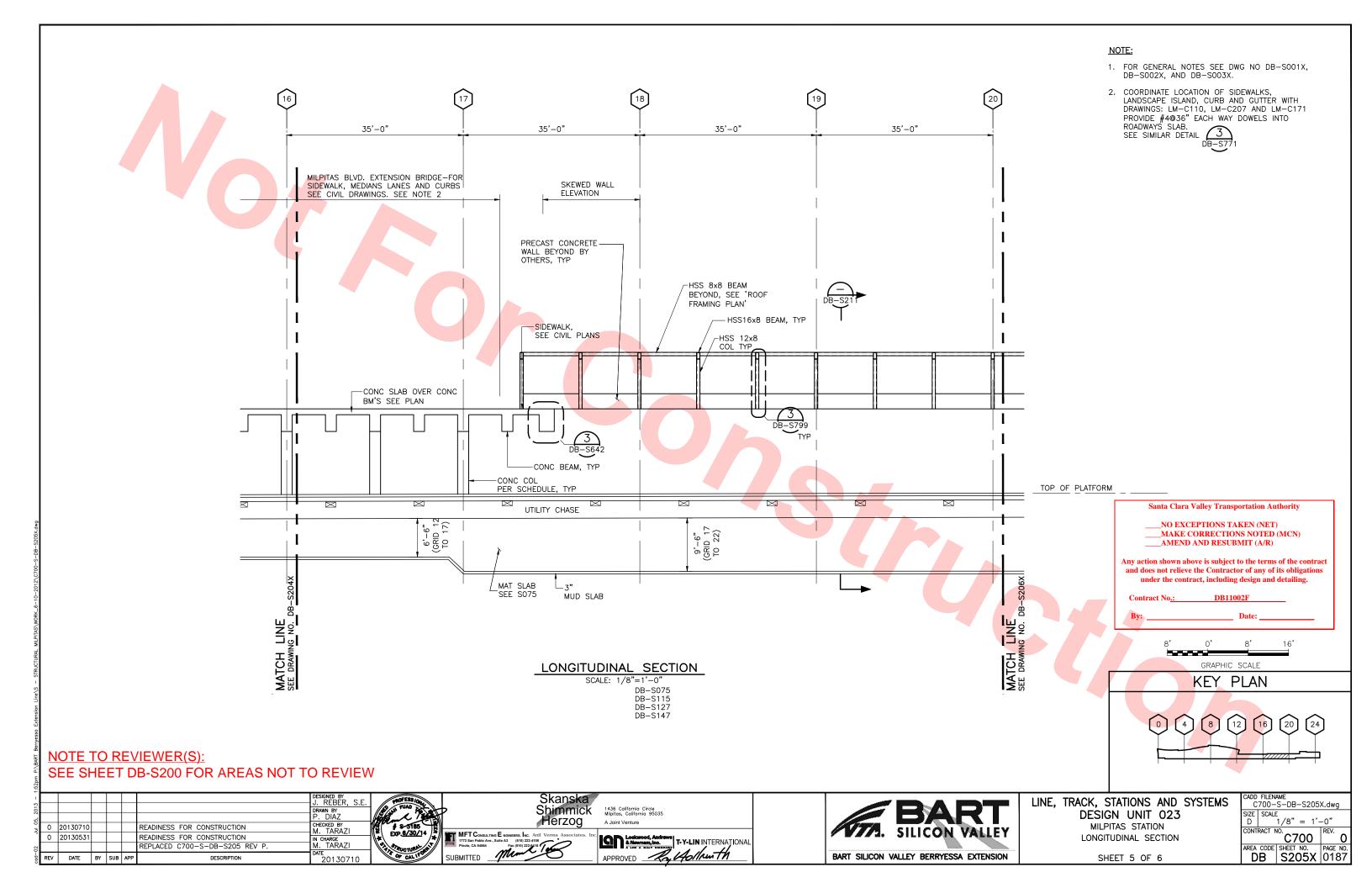


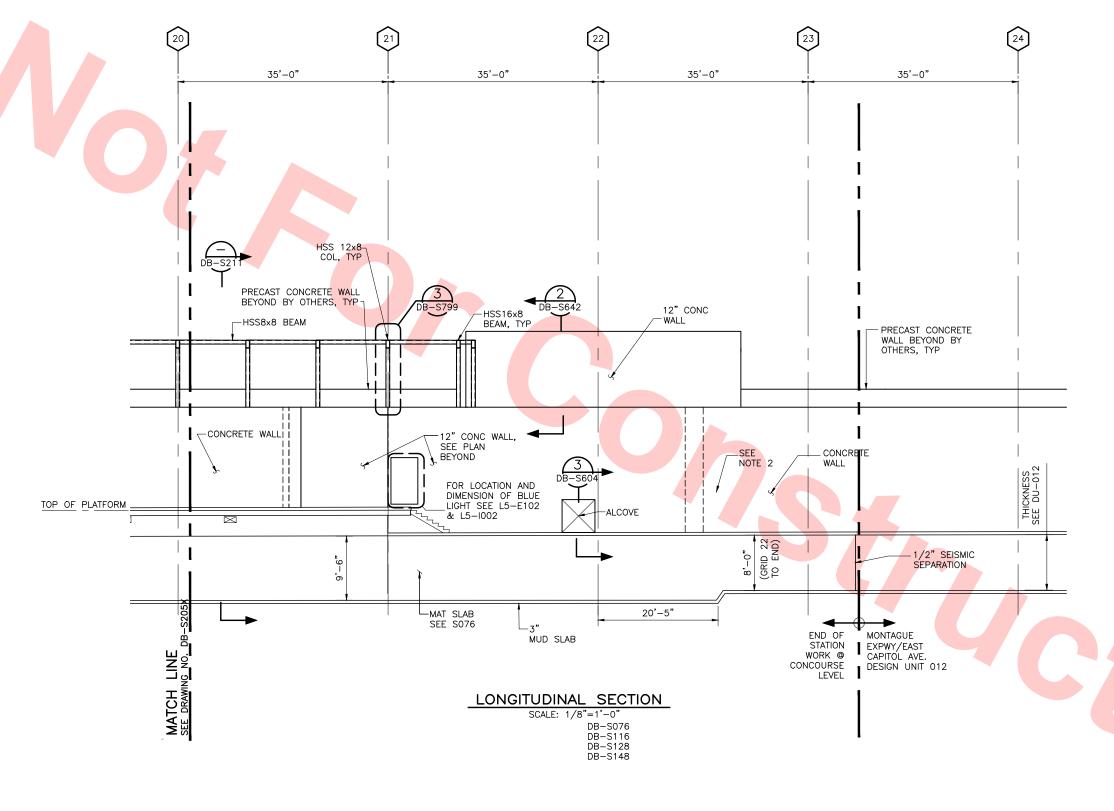












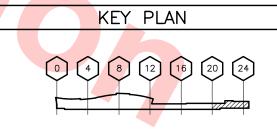
NOTE:

- FOR GENERAL NOTES SEE DWG NO DB-S001X, DB-S002X, AND DB-S003X.
- 2. FOR NICHES LOCATION SEE ARCHITECTURAL DRAWINGS DB-A206, L5-I002, L5-E101 AND L5-E102 STRUCTURAL DRAWINGS DB-S613 & DB-S614 FOR STRUCTURAL DETAIL

Santa Clara Valley Transportation Authority

_NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.



NOTE TO REVIEWER(S): SEE SHEET DB-S200 FOR AREAS NOT TO REVIEW

3 -							DESIGNED BY J. REBER, S.E.	
05, 2013							DRAWN BY P. DIAZ	Tegal Park
Jul 05		20130710				READINESS FOR CONSTRUCTION	CHECKED BY M. TARAZI	
,	0	20130531				READINESS FOR CONSTRUCTION	IN CHARGE	\(\•
02						REPLACED C700-S-DB-S206 REV P.	M. TARAZI	"
-po	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	ı





1436 California Circle Milpitas, California 95035





LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

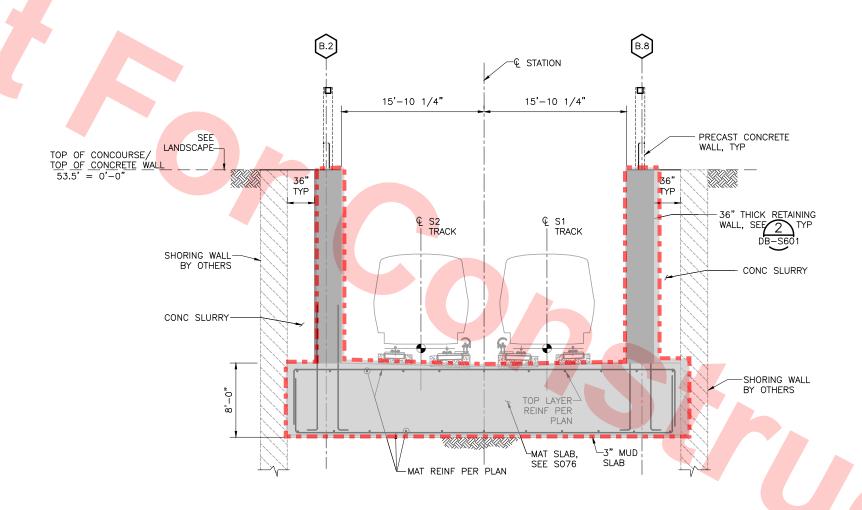
LONGITUDINAL SECTION

SHEET 6 OF 6

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		CODE	SHEET S20	NO. 06X	PAGE NO. 0188				

NOTE:

1. FOR GENERAL NOTES SEE DWG NO DB-S001X, DB-S002X, AND DB-S003X.



TRANSVERSE SECTION

DB-S076 DB-S116

DB-S148

DB-S205X DB-S206X Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

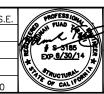
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations inder the contract, including design and detailing.

DB11002F

NOTE TO REVIEWER(S): DO NOT REVIEW AREAS DESIGNATED AS

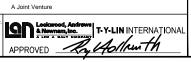


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-							DESIGNED BY J. REBER, S.E.	
, 20,							DRAWN BY P. DIAZ	
in o							CHECKED BY M. TARAZI	
1	0	20130710				READINESS FOR CONSTRUCTION	IN CHARGE	\ (•
75	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	1/3
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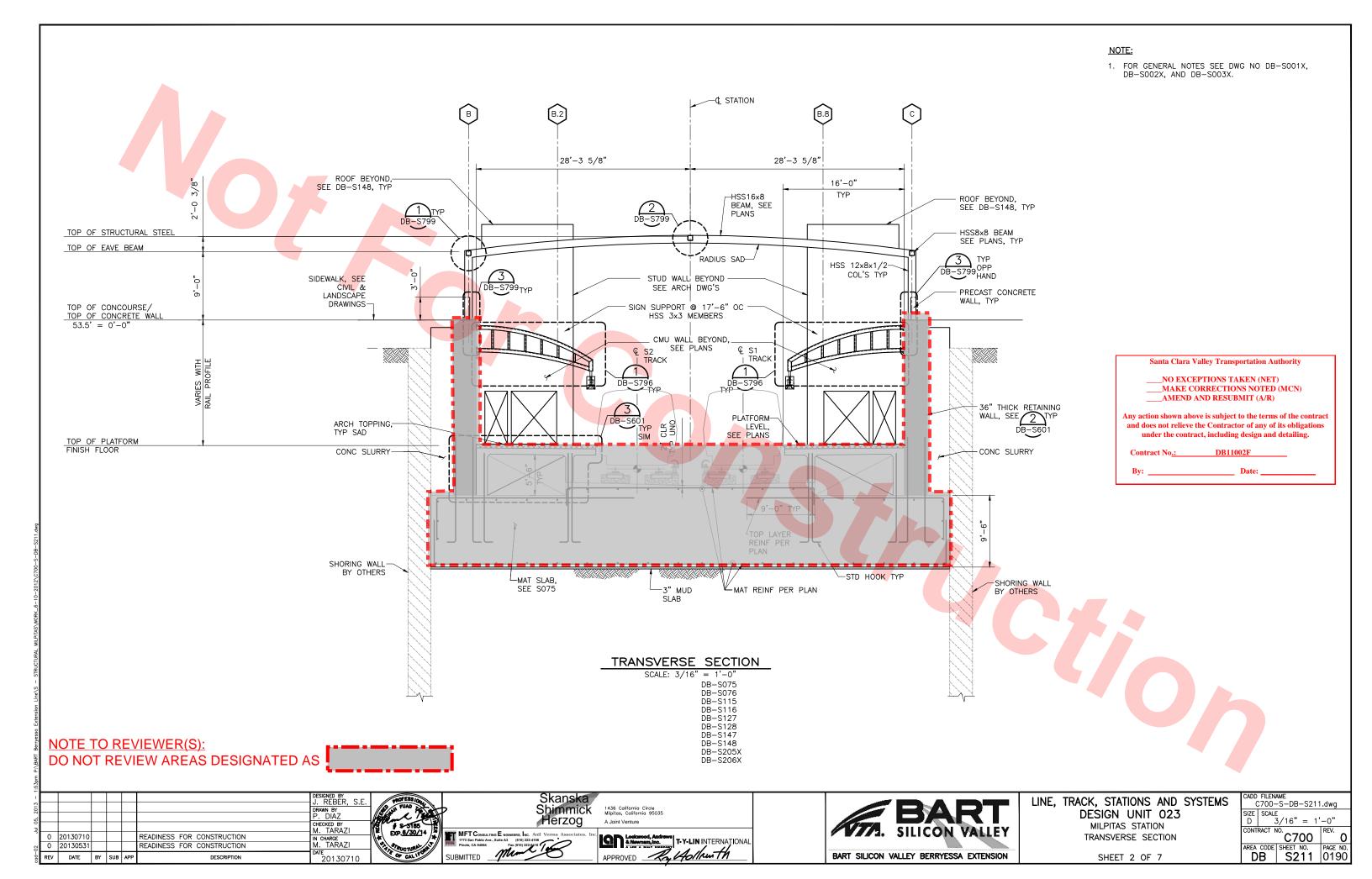


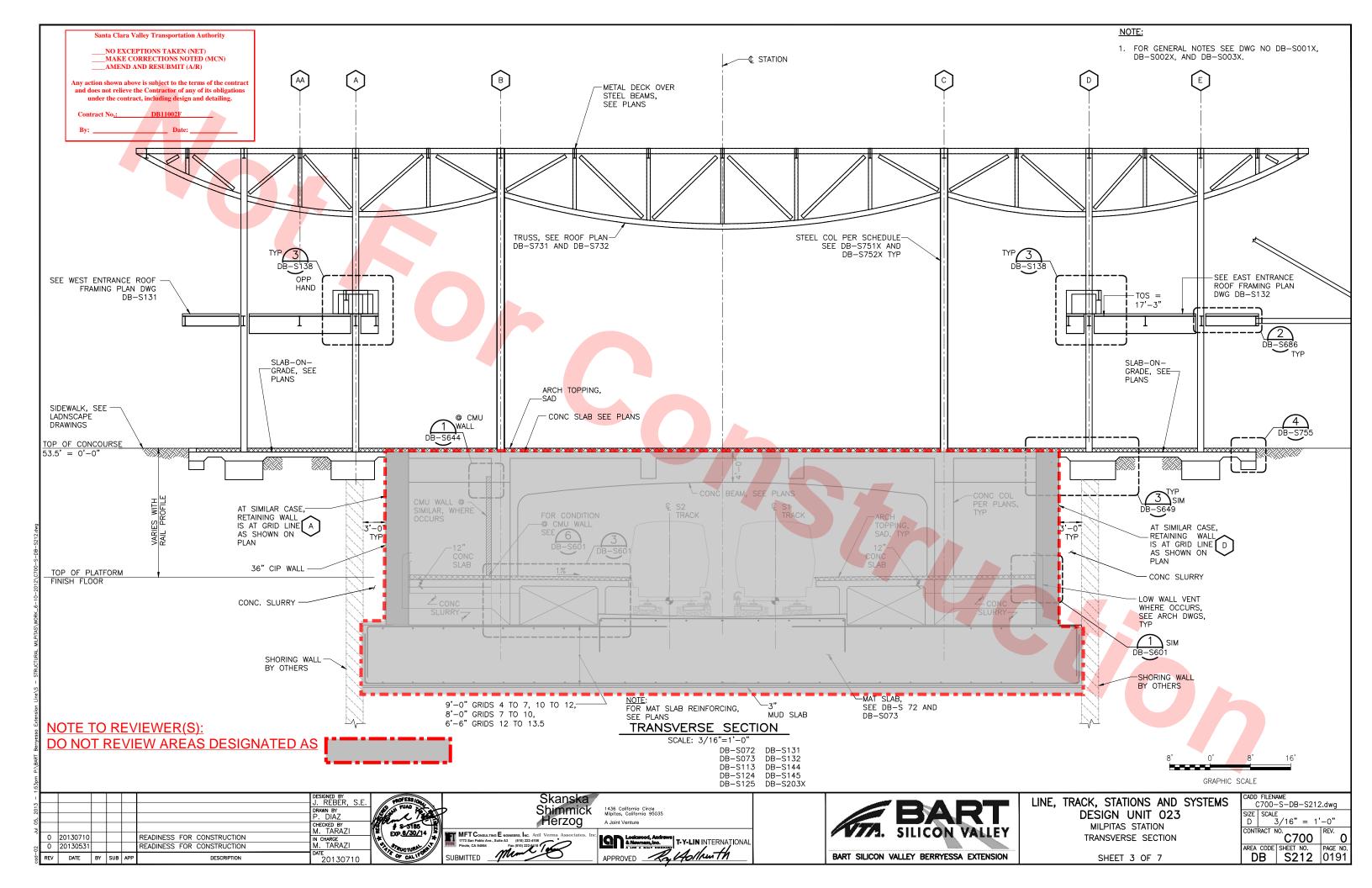
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

TRANSVERSE SECTION

SHEET 1 OF 7

(-S-DB	-S210	O.dwg	
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	RACT N	C7	00	REV.	0
	CODE	SHEET S2		PAGE 018	

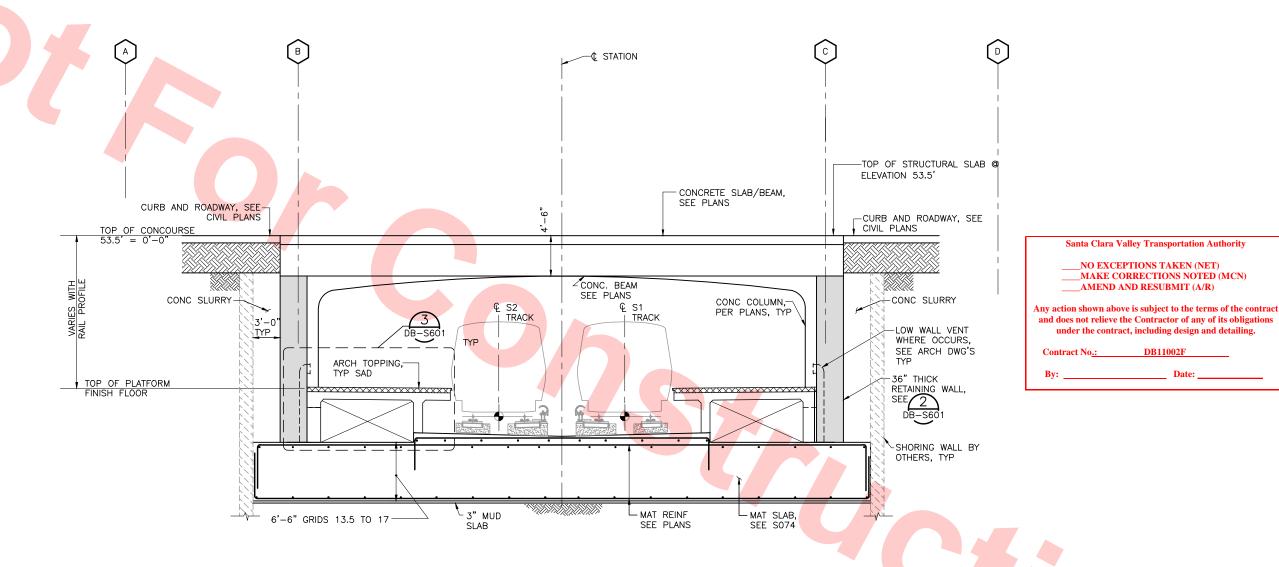




1. FOR GENERAL NOTES SEE DWG NO DB-S001X, DB-S002X, AND DB-S003X.

Santa Clara Valley Transportation Authority _NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN)

AMEND AND RESUBMIT (A/R)



TRANSVERSE SECTION

SCALE: 3/16"=1'-0"

DB-S074 DB-S114 DB-S126

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS SUBMITTED UNDER DU-23-WP08 TRENCH PACKAGE

						DESIGNED BY J. REBER, S.E.	PROFESS /Qu		Skanska	7
						DRAWN BY	STAN FUAD		Shimmick	1436 California Circle Milpitas, California 95035
						P. DIAZ CHECKED BY	MARCHAN TO	KEL	Herzog	A Joint Venture
_							EXP. 6/30/14	4)SII.	MFT CONSULTING E NGINEERS, INC. Anil Verma Associates, Inc.	
0	20130710				READINESS FOR CONSTRUCTION	IN CHARGE M. TARAZI	*	/*//	1773 San Pablo Ave., Suite A3 (510) 222-4106	& Newmann, Inc. T-Y-LIN INTERNATIONAL
0	20130531				READINESS FOR CONSTRUCTION		PAUCTURAL OF		Pinole, CA 94564 Fax (510) 222-6418 SURMITTED	A LEG A BALT COMPARY
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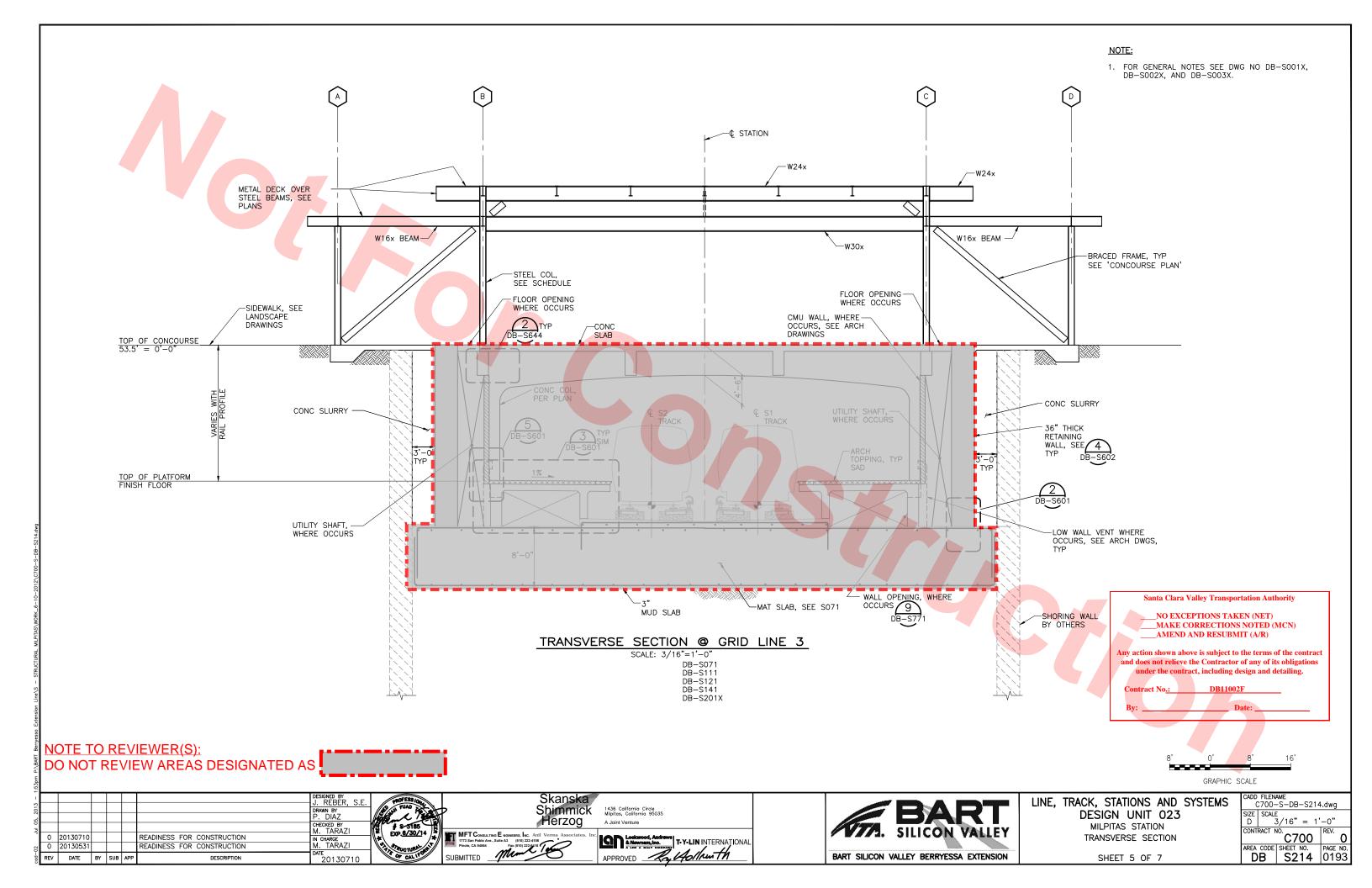
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

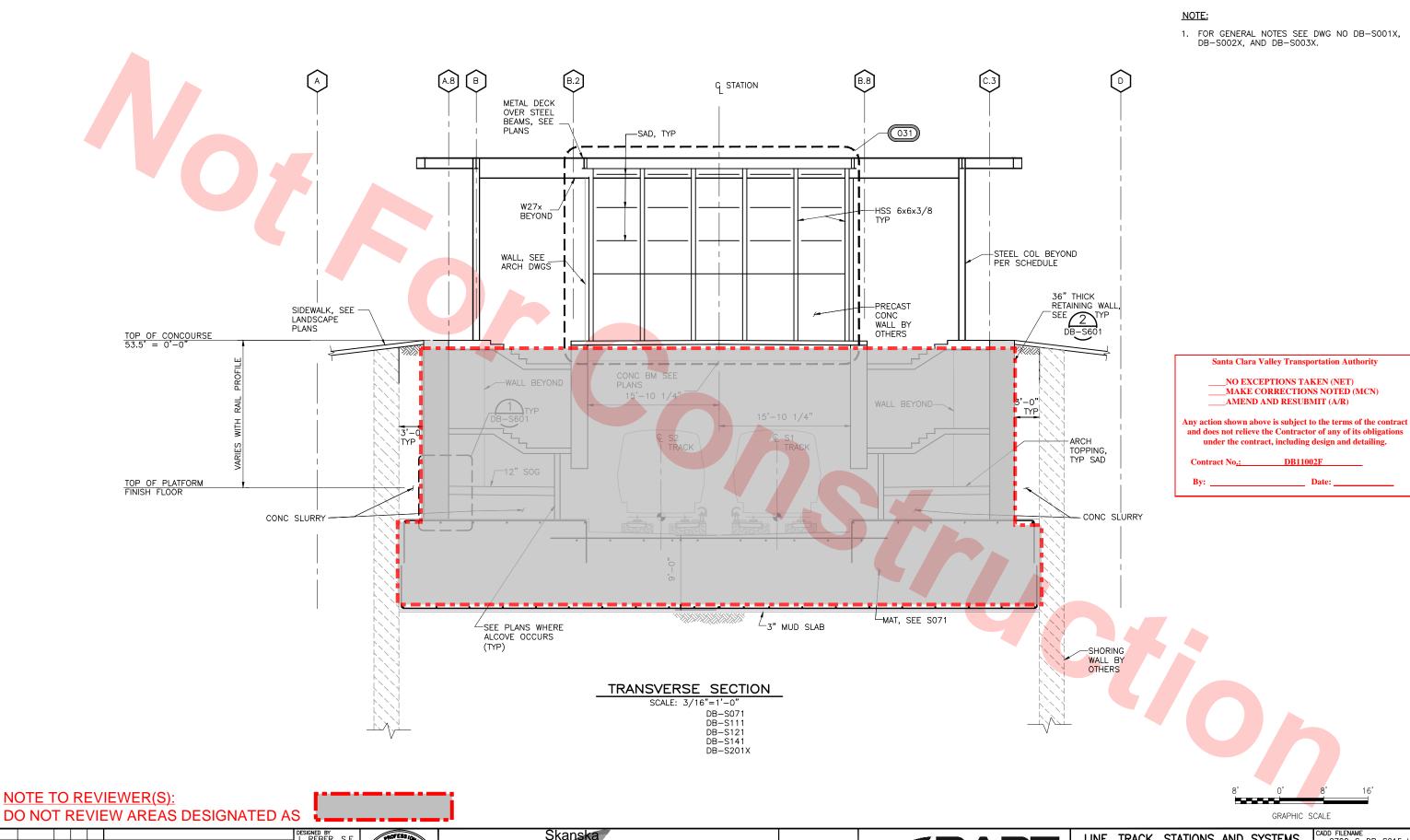
TRANSVERSE SECTION

3	(-S-DB-S	213	i.dwg	
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GRAPHIC SCALE

SHEET 4 OF 7





0 20130710 0 20130531

REV DATE BY SUB APP

READINESS FOR CONSTRUCTION

READINESS FOR CONSTRUCTION

\$ \$ 3185 EXP.<u>6/30/1</u>4 CHECKED BY M. TARAZI IN CHARGE M. TARAZI 20130710

MFT Consulting E ngineers, Inc. Anil V 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinote, CA 94564 Fax (510) 222-6418

Skanska Shimmick Herzog

1436 California Circle Milpitas, California 95035





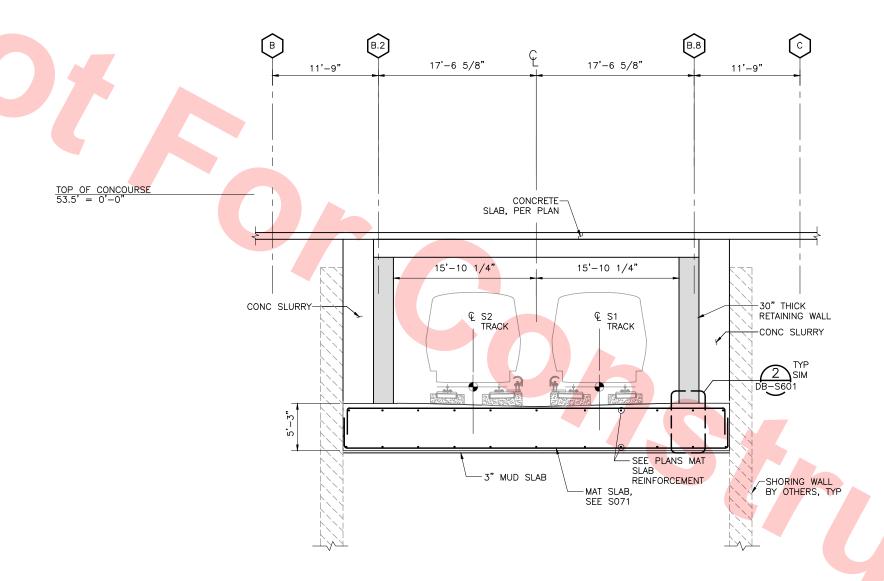
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION

TRANSVERSE SECTION

SHEET 6 OF 7

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1. FOR GENERAL NOTES SEE DWG NO DB-S001X, DB-S002X, AND DB-S003X.

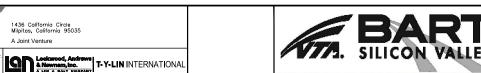


TRANSVERSE SECTION

DB-S071 DB-S111 DB-S121

DB-S204X

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS SUBMITTED UNDER DU-23-WP08 TRENCH PACKAGE



BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION TRANSVERSE SECTION

SIZE SCALE D 3/16" = 1'-0" CONTRACT NO. C700 REV. O AREA CODE SHEET NO. PAGE NO. DB S216 0195 SHEET 7 OF 7

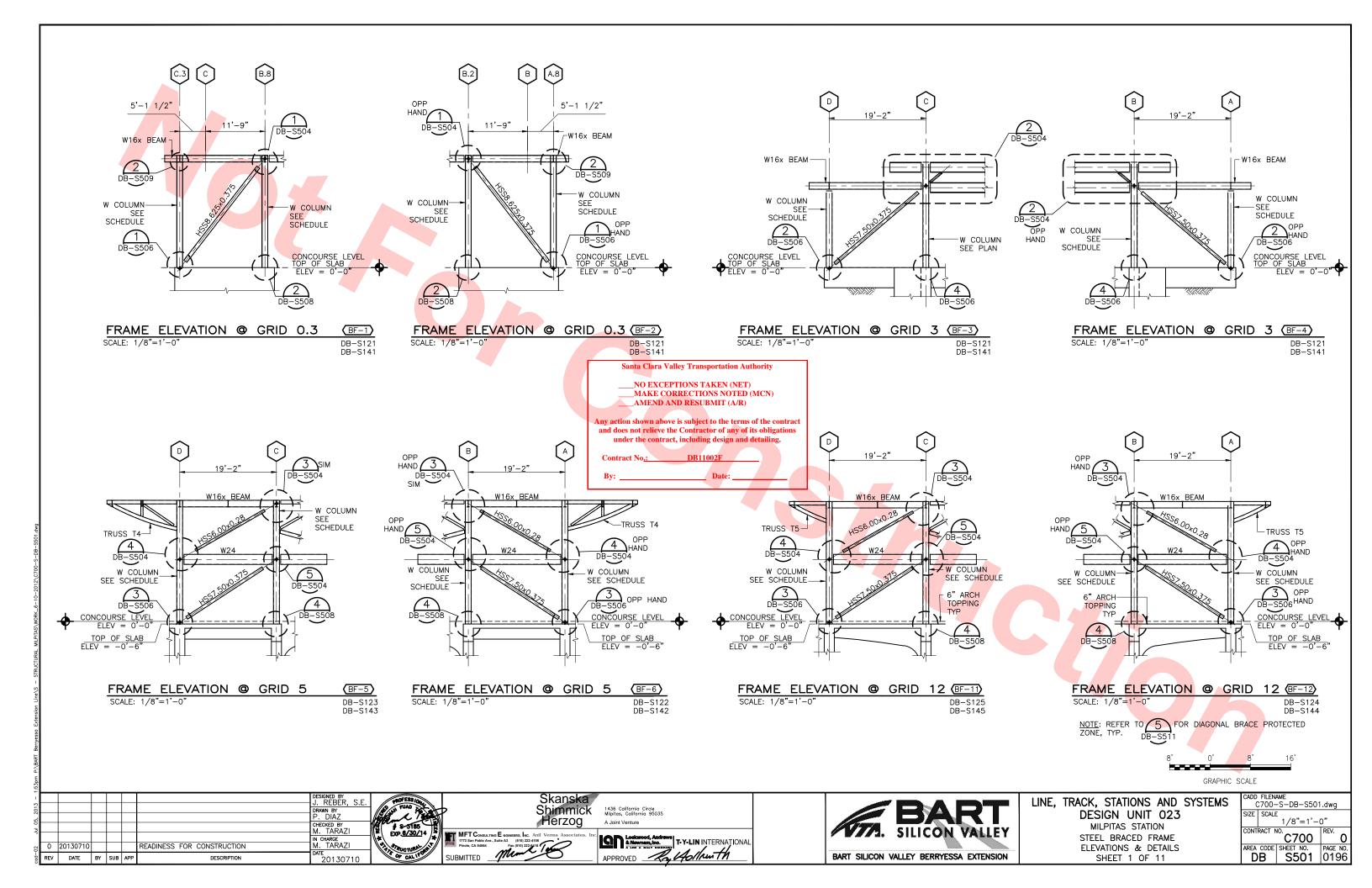
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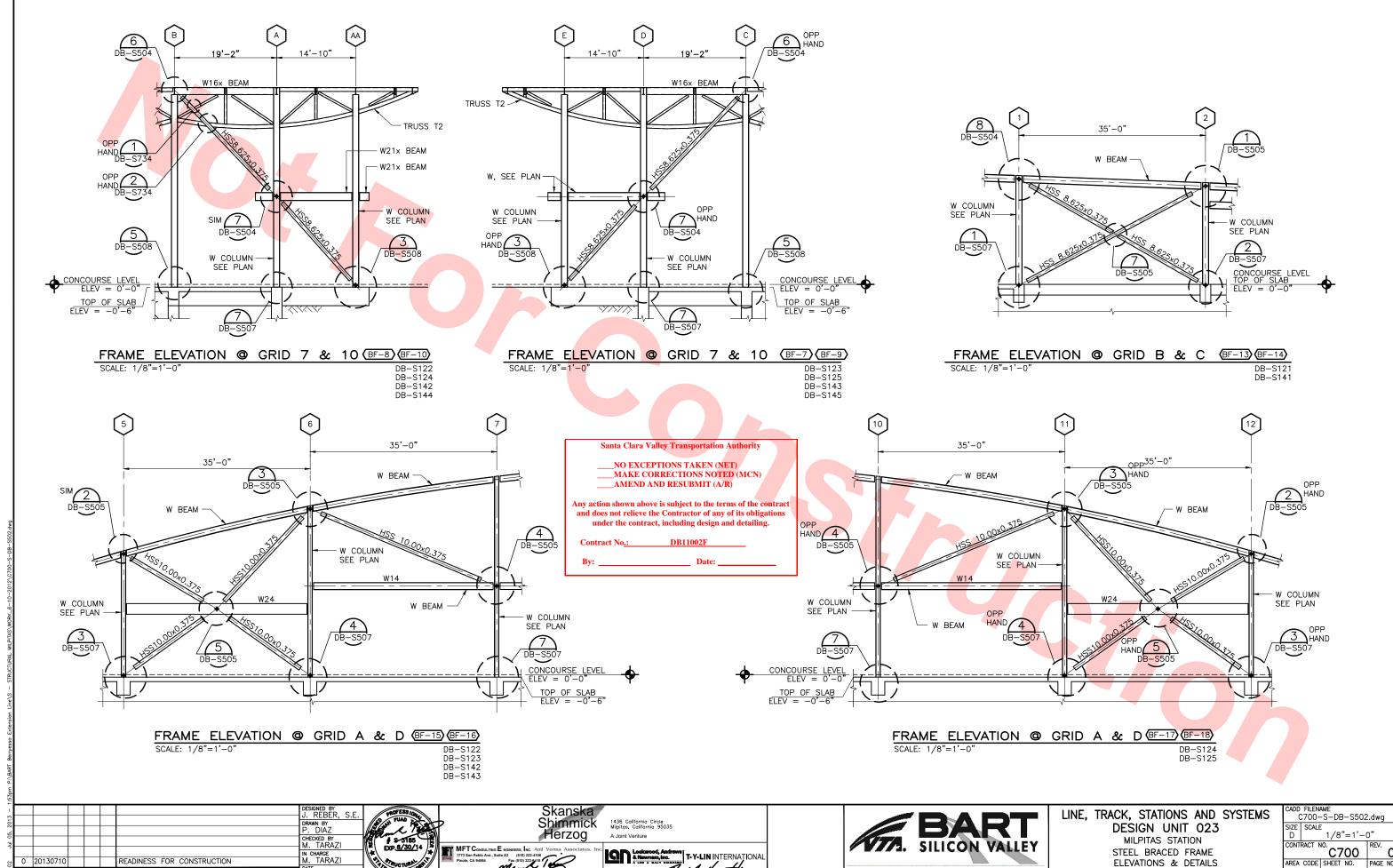
GRAPHIC SCALE

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						CHECKED BY M. TARAZI	REO!S!	#S
0	20130531				READINESS FOR CONSTRUCTION	IN CHARGE M. TARAZI	1	eap.
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531		` ` `

S 3185 P <u>6/30/1</u>4 MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

Skanska Shimmick Herzog





REV DATE BY SUB APP

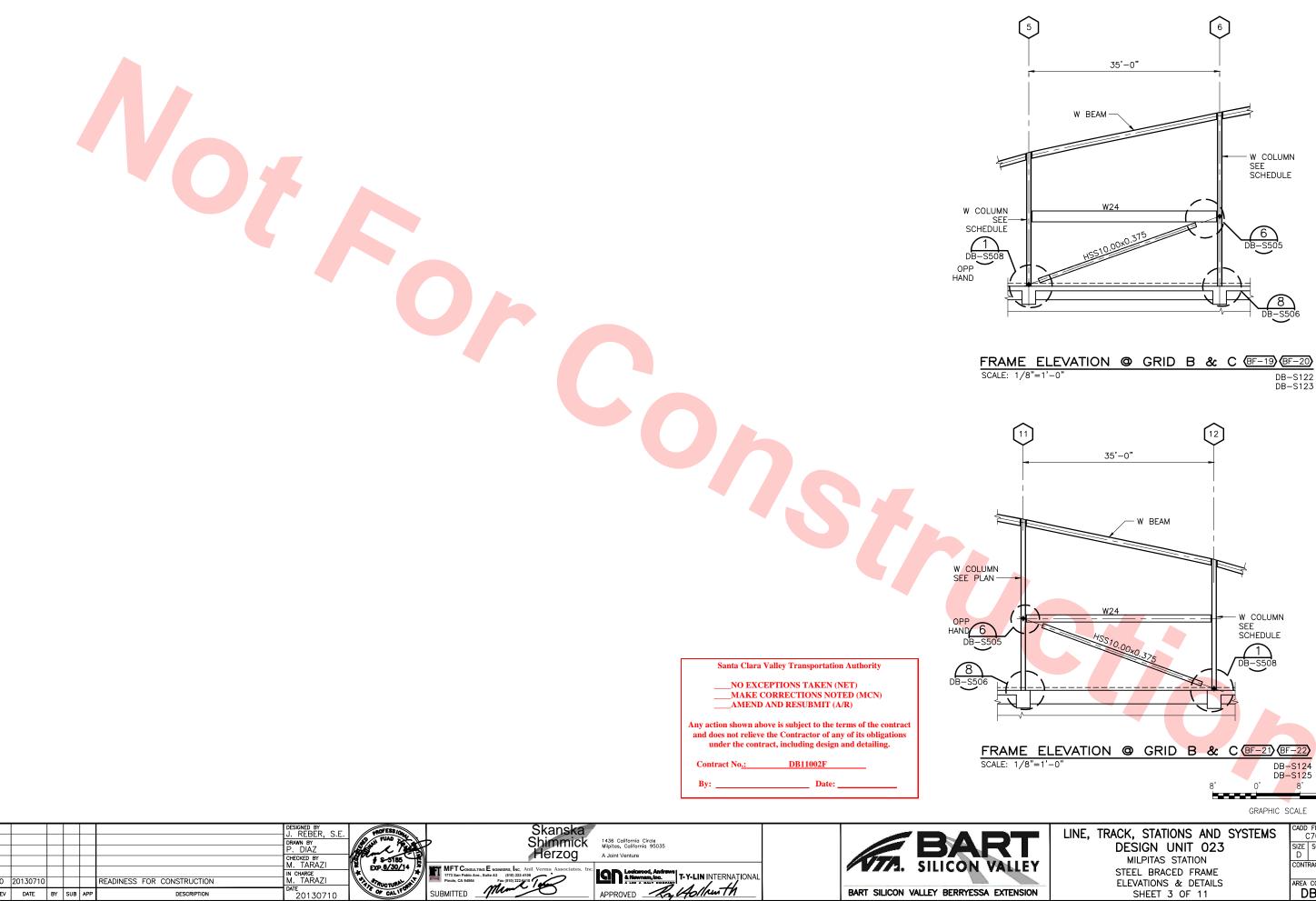
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BART SILICON VALLEY BERRYESSA EXTENSION

C700 REV. 0

AREA CODE SHEET NO. PAGE NO. 0197

SHEET 2 OF 11



REV DATE BY SUB APP

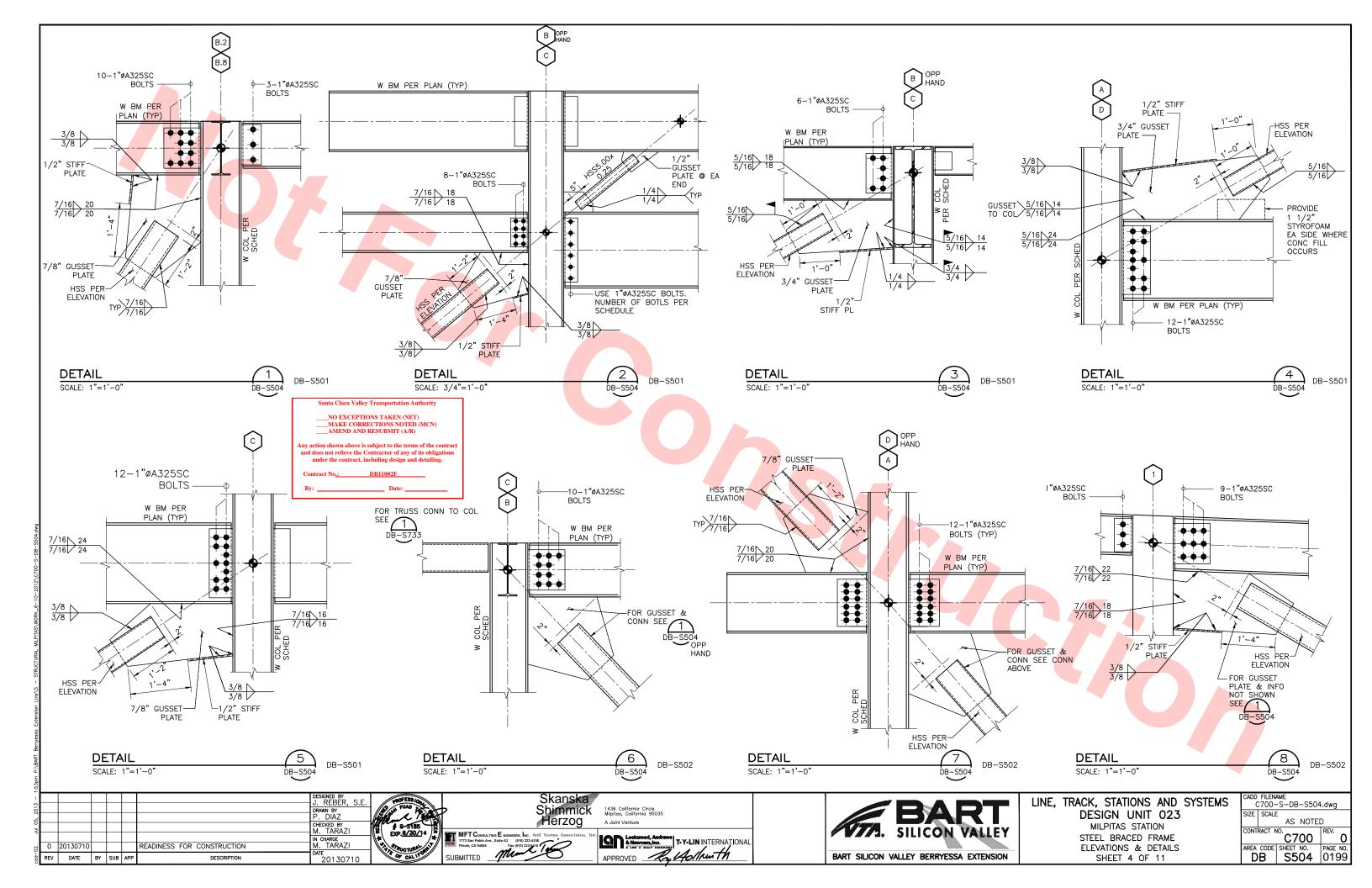
20130710

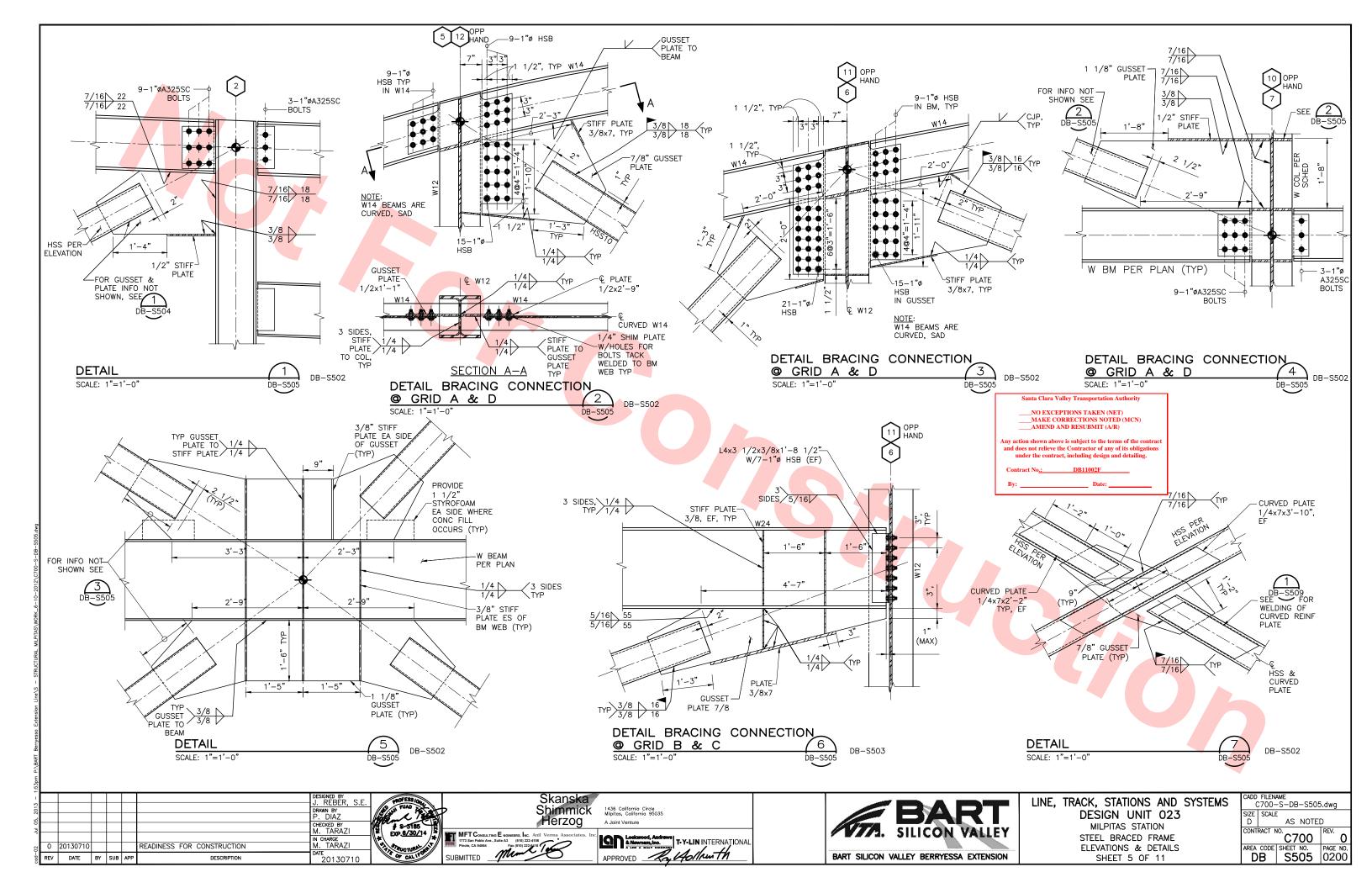
BART SILICON VALLEY BERRYESSA EXTENSION

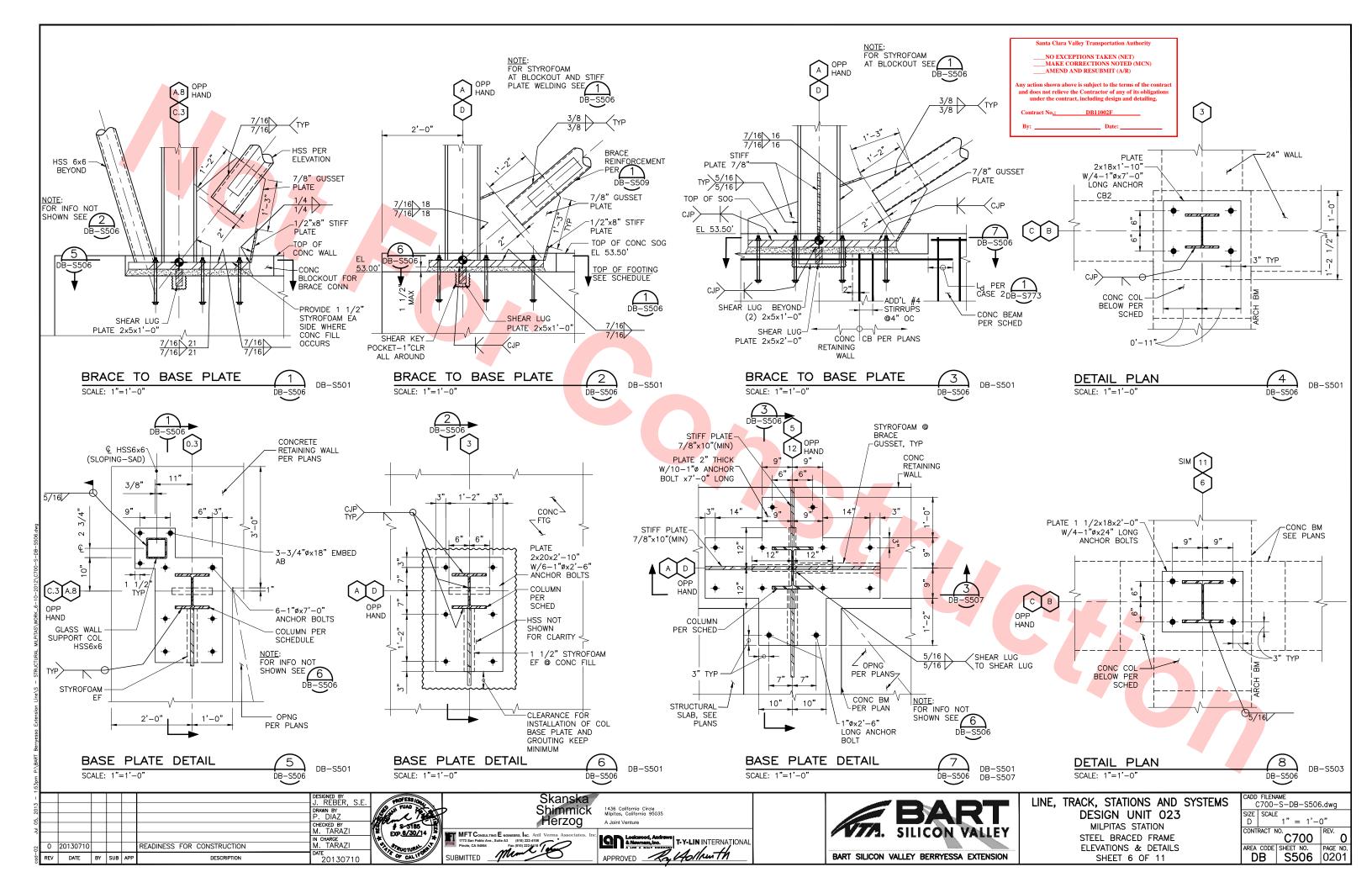
CADD FILENAME C700-S-DB-S503.dwg SIZE | SCALE | 1/8"=1'-0" CONTRACT NO. C700

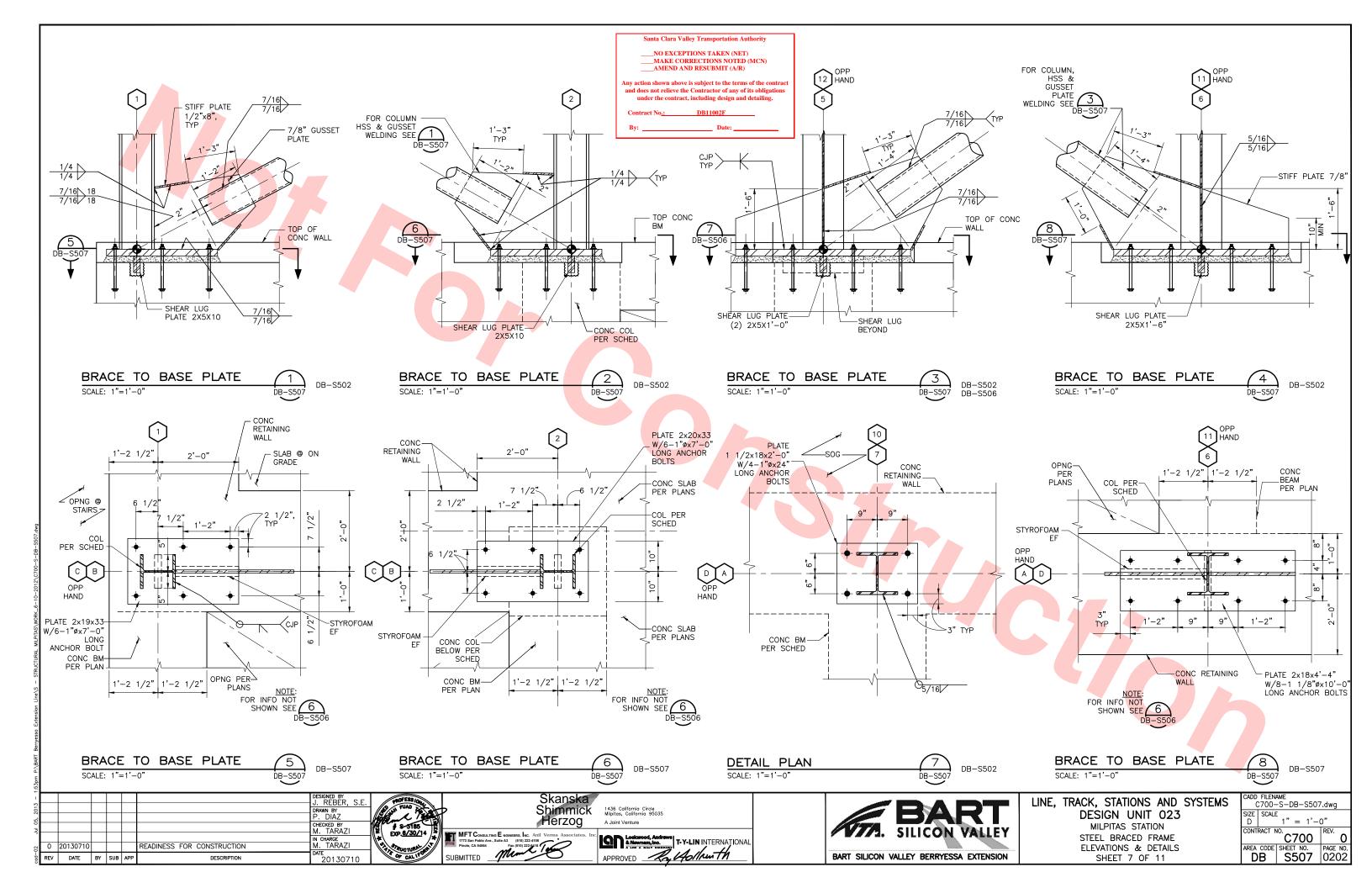
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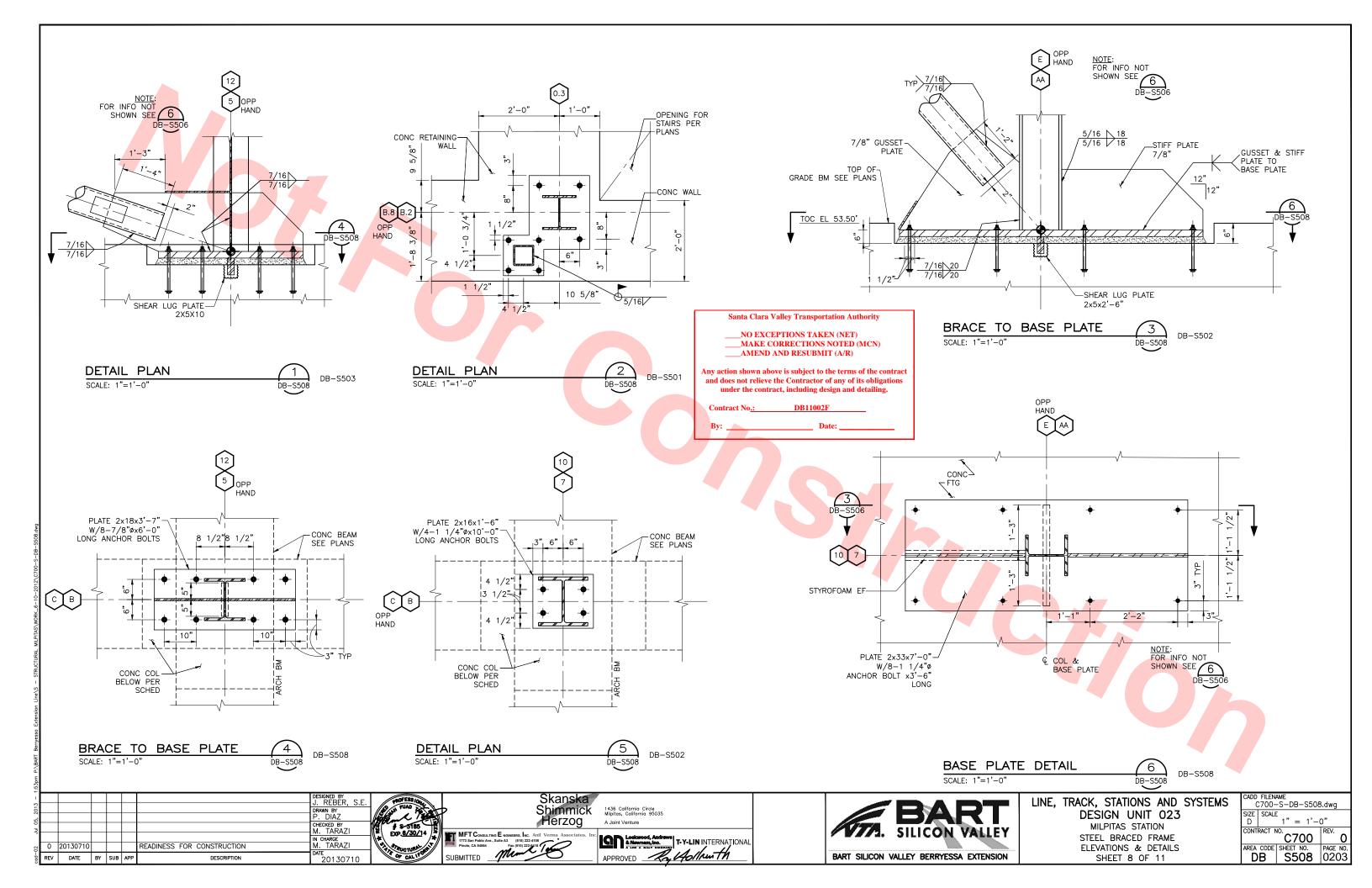
SHEET 3 OF 11

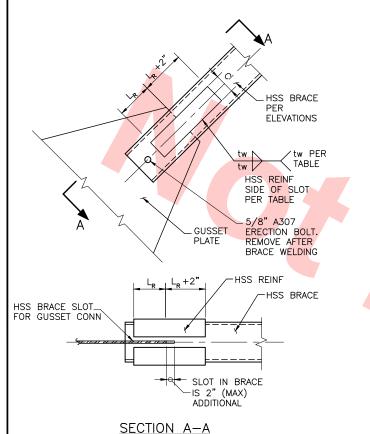


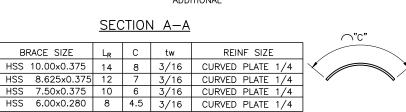




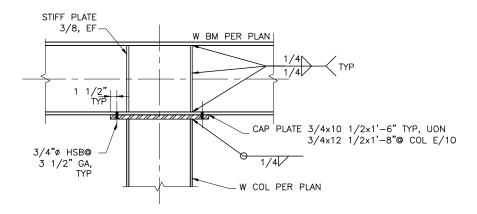








BRACE REINFORCEMENT DETAIL DB-S505 SCALE: 1"=1'-0"



CONT BEAM OVER COLUMN (2) DB-S501 DB-S731

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN) _AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

DB11002F

CHECKED BY M. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION REV DATE BY SUB APP 20130710



Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035





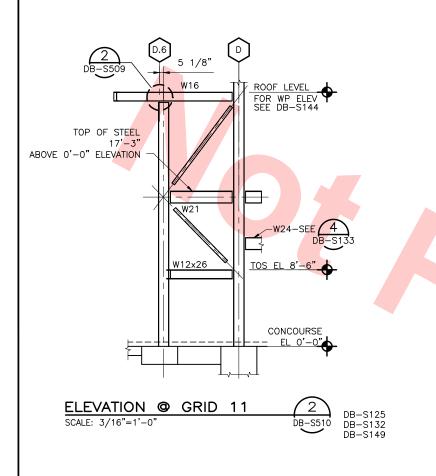
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION STEEL BRACED FRAME **ELEVATIONS & DETAILS**

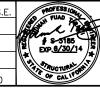
SHEET 9 OF 11

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_			B-S509	dwg.
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BRACE SIZE

HSS 10.00x0.375













LINE, TRACK, STATIONS AND SYSTEMS

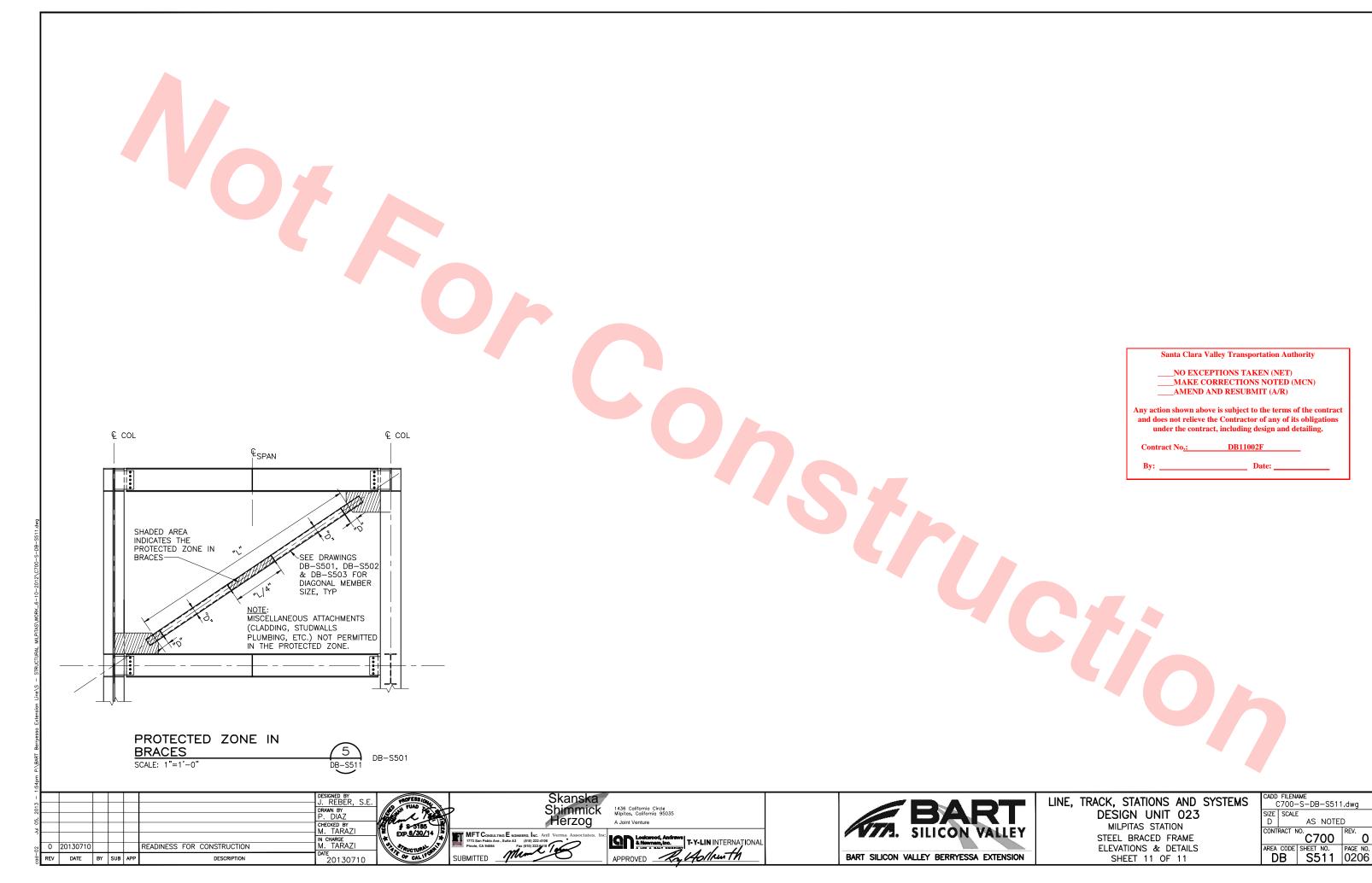
DESIGN UNIT 023

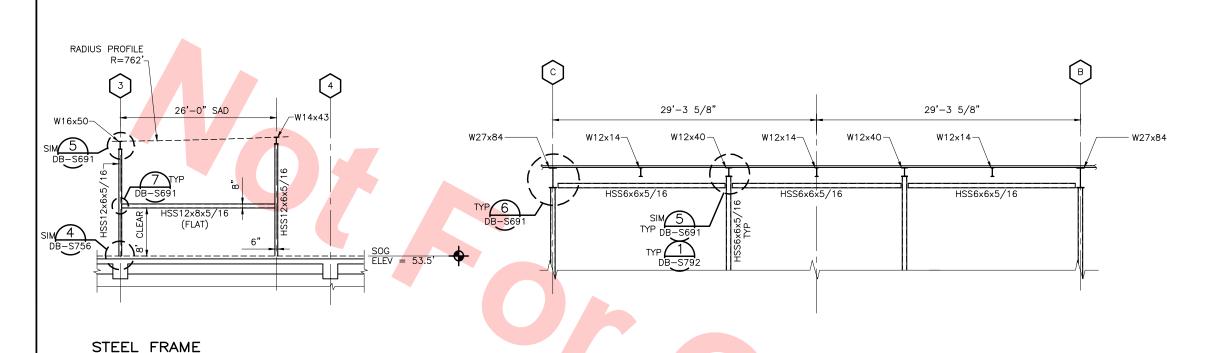
MILPITAS STATION

STEEL BRACED FRAME
ELEVATIONS & DETAILS

SHEET 10 OF 11

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	SIZE D	SCALE		NOTE)
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	AREA D	CODE	SHEET S5		PAGE NO 0205





STEEL FRAME ELEVATION
SCALE: 3/16"=1'-0"

2 DB-S520

DB-S146

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
__MAKE CORRECTIONS NOTED (MCN)
__AMEND AND RESUBMIT (A/R)

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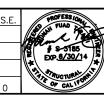
Contract No.: DB11002F

By: _____ Date: ____

ELEVATION @ SMOKE VENT

ROOM #1 & #2

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



DB-S121



1436 California Circle
Milpitas, California 95035
A Joint Venture

Ciatess. Inc.

Lockwood, Andrews
A November, Inc.
T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

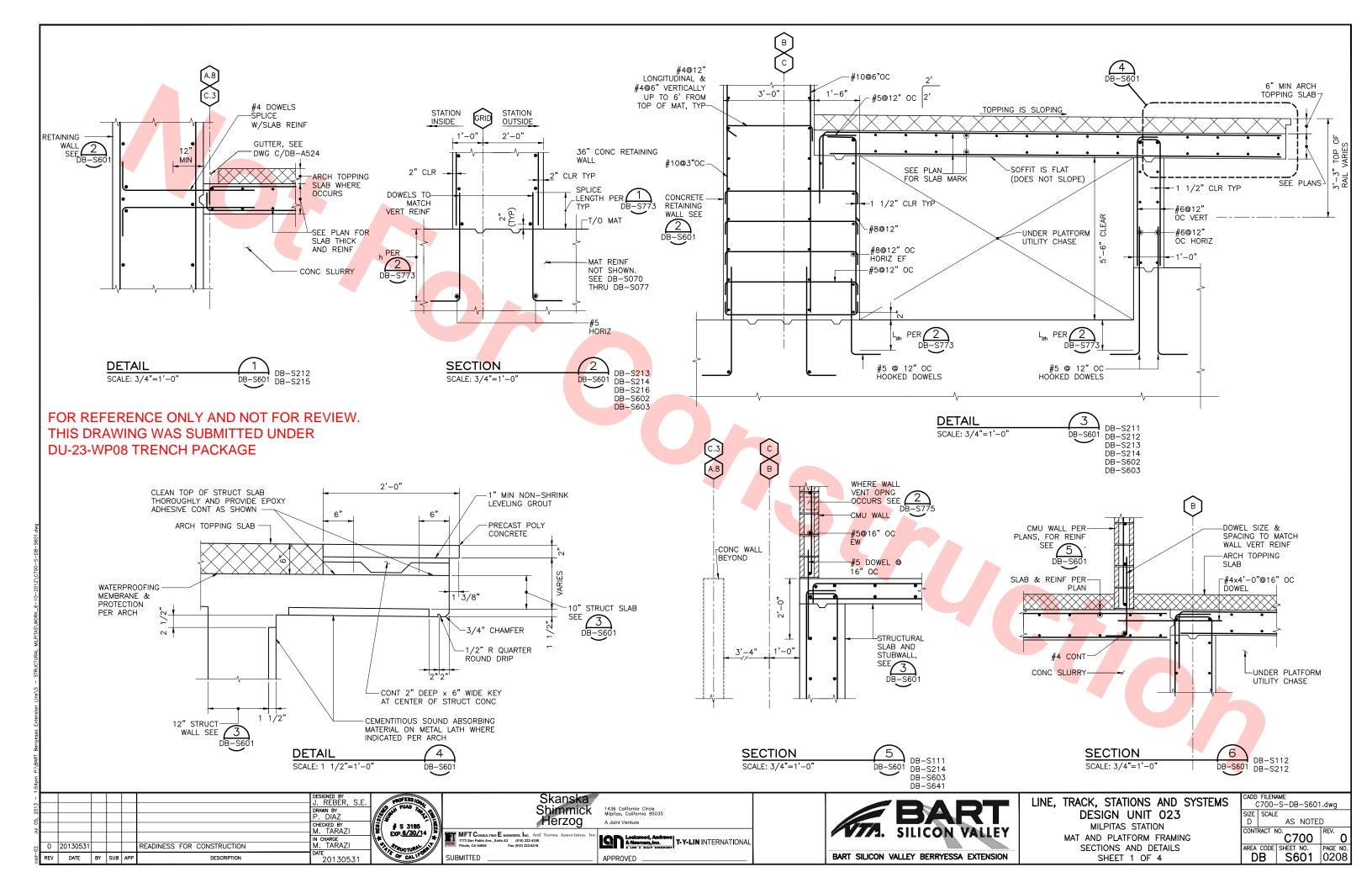
MILPITAS STATION

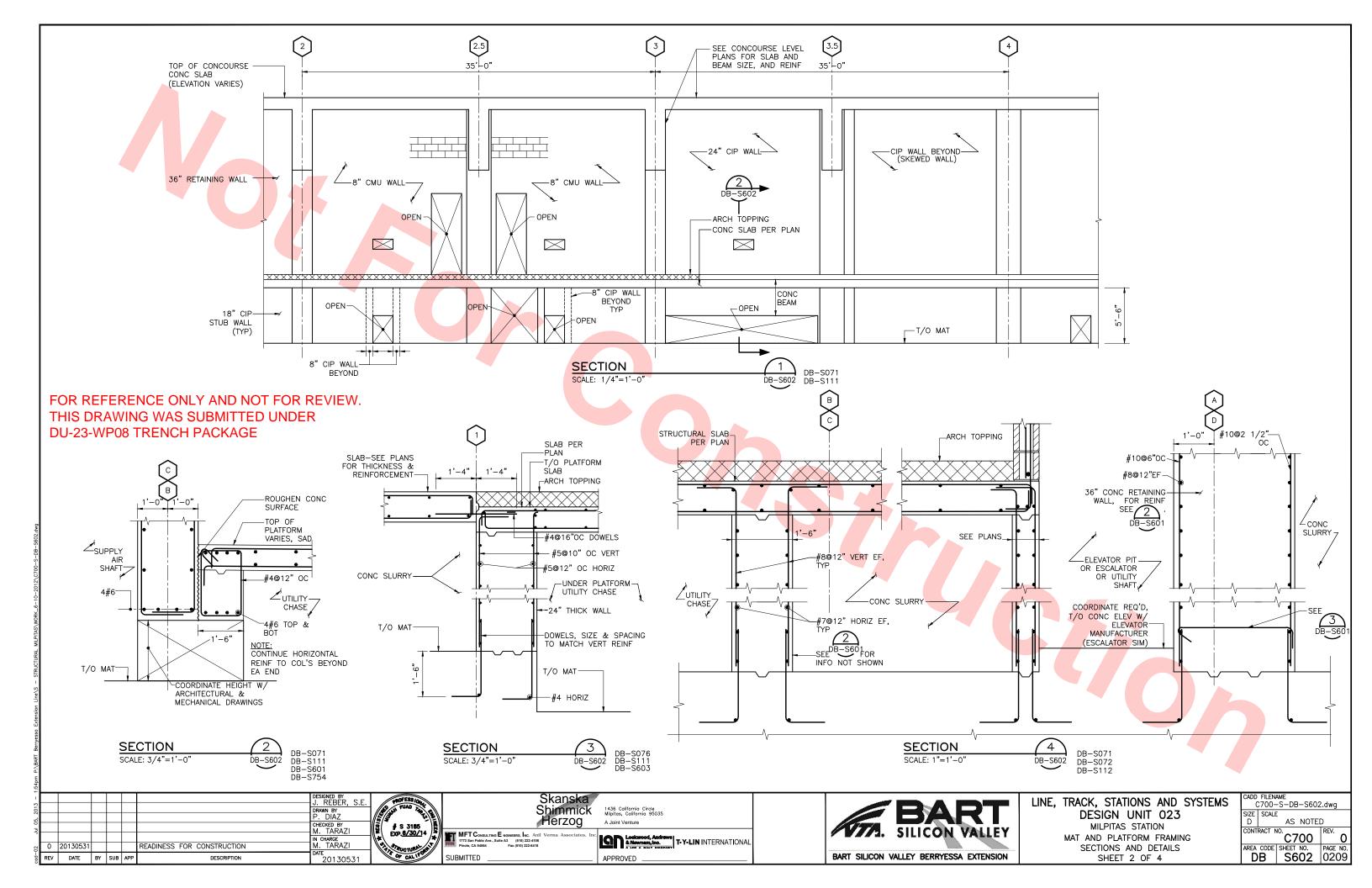
MISCELANEOUS STEEL FRAME

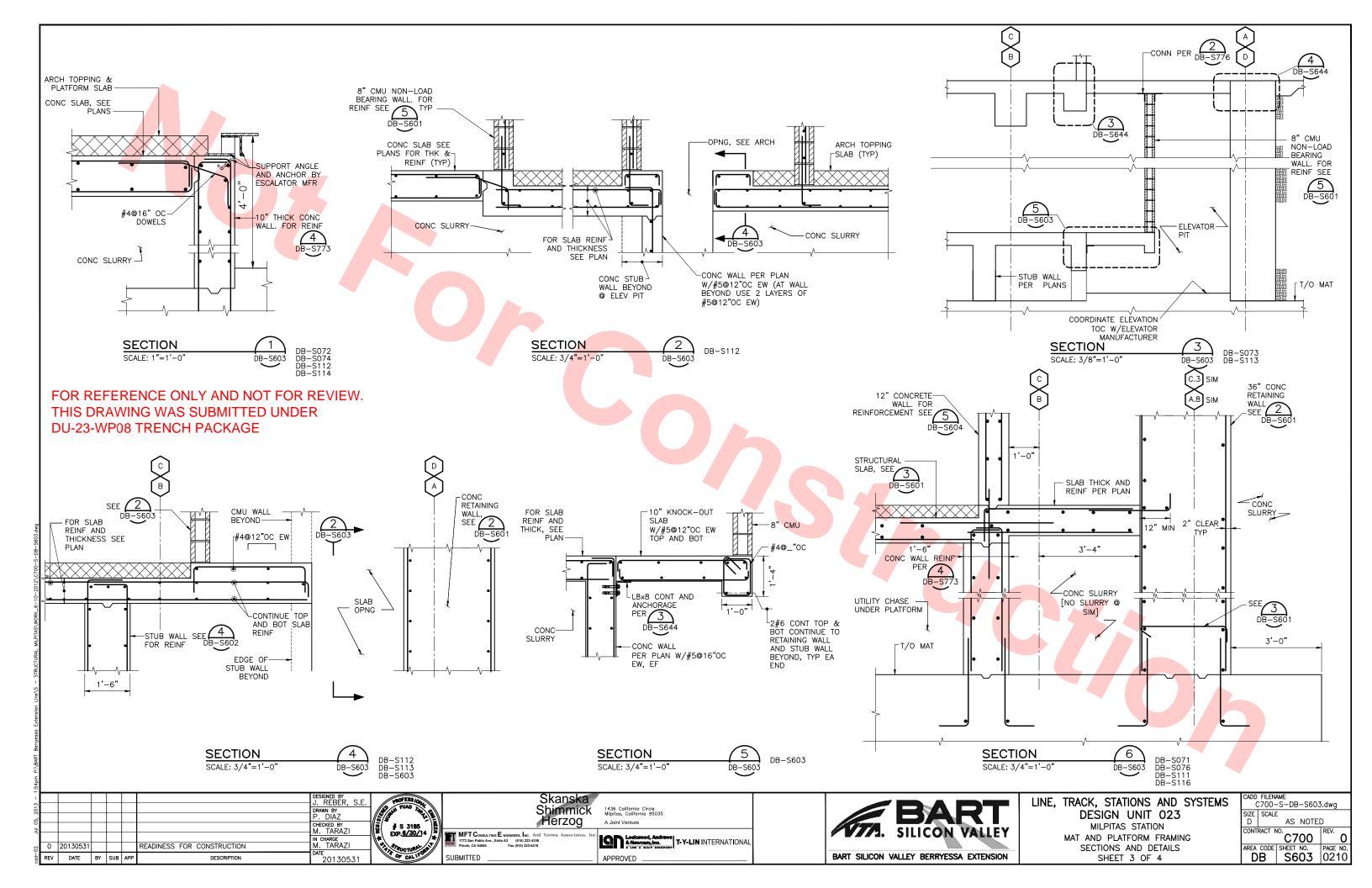
AND DETAILS

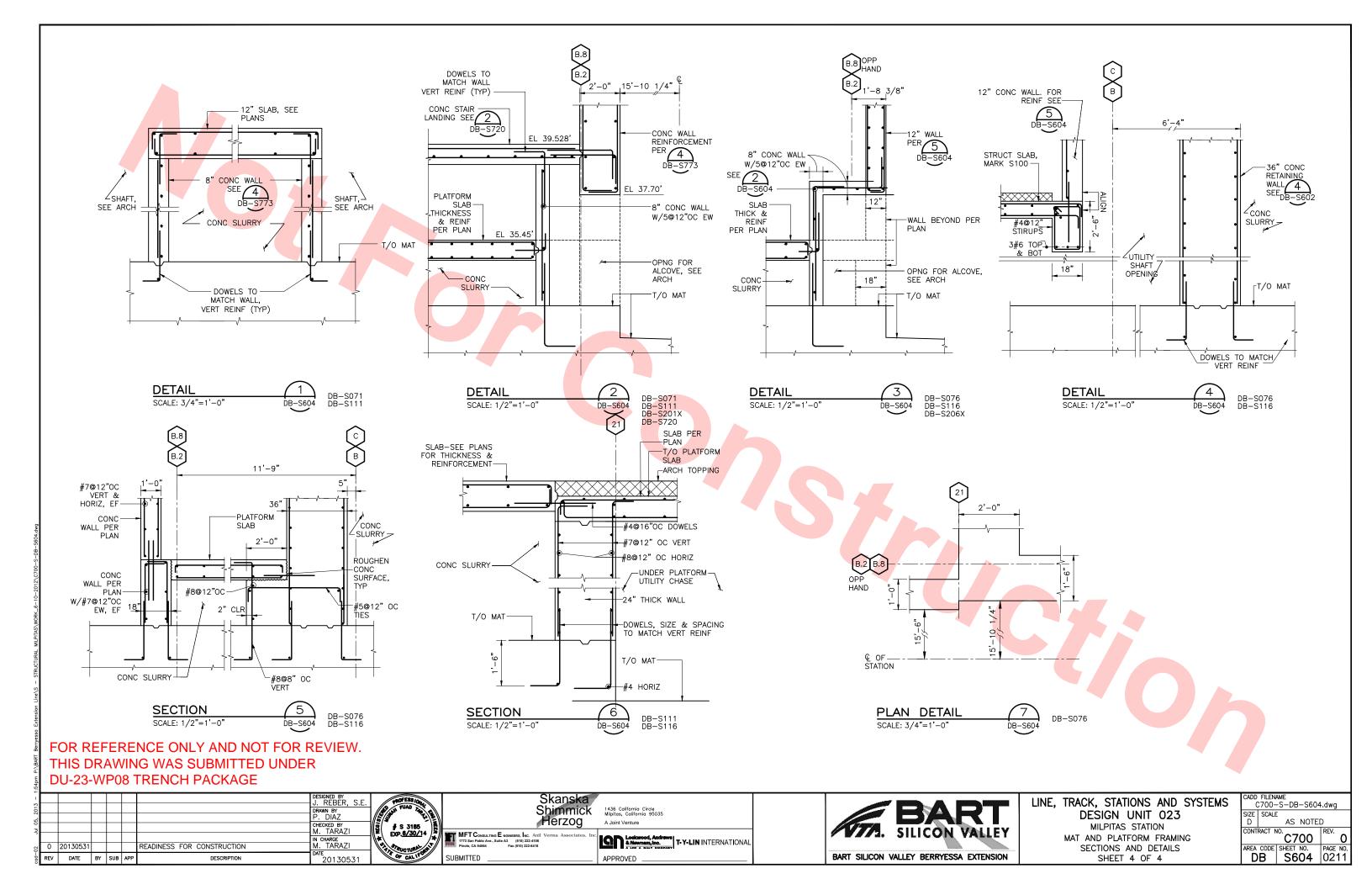
SHEET 1 OF 1

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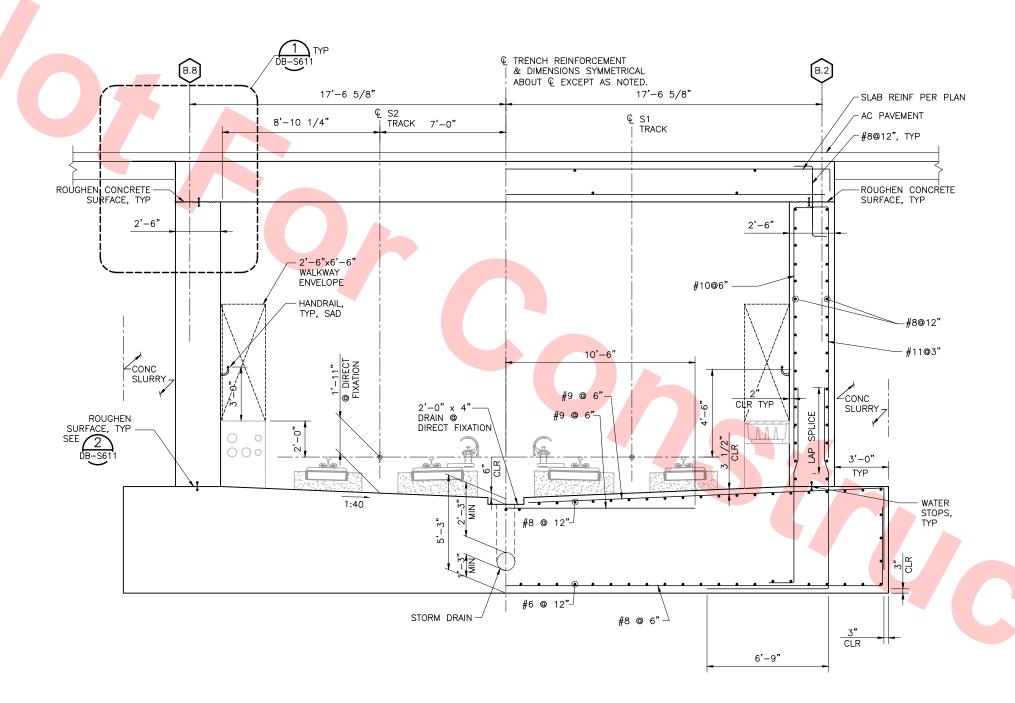






NOTES:

- 1. SEE DWGS DB-S001X, DB-S002X AND DB-S003X FOR NOTES.
- 2. SEE CIVIL DRAWINGS FOR STORM DRAIN.



FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS SUBMITTED UNDER DU-23-WP08 TRENCH PACKAGE

TYPICAL SECTION

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

DB-S077 DB-S117 DB-S129

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5015							DRAWN BY		S LI FUAD TO	Chimmiok	1436 California Circle Milpitas, California 95035
ď							P. DIAZ	REGISTER	Star E E	Horzog	
3							CHECKED BY M. TARAZI	(<u> </u> 2	# S 3185 PA	MFT Consulting Engineers, Inc. Anil Verma Associates, Inc. 1773 San Pahlo Ave. Suite 83 (610) 222-4106	
							IN CHARGE	1*\	\ '''' \ 		Lockwood, Andrews T-Y-LIN INTERNATIONAL
20	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	//3	PRUCTURAL OF CALIFORNIA	Pinole, CA 94564 Fax (510) 222-6418	A LPG A BALT COMPART
ģ	REV	DATE	BY	SUB	APP	DESCRIPTION	20130531	I ₹	OF CALIFO	SUBMITTED	APPROVED

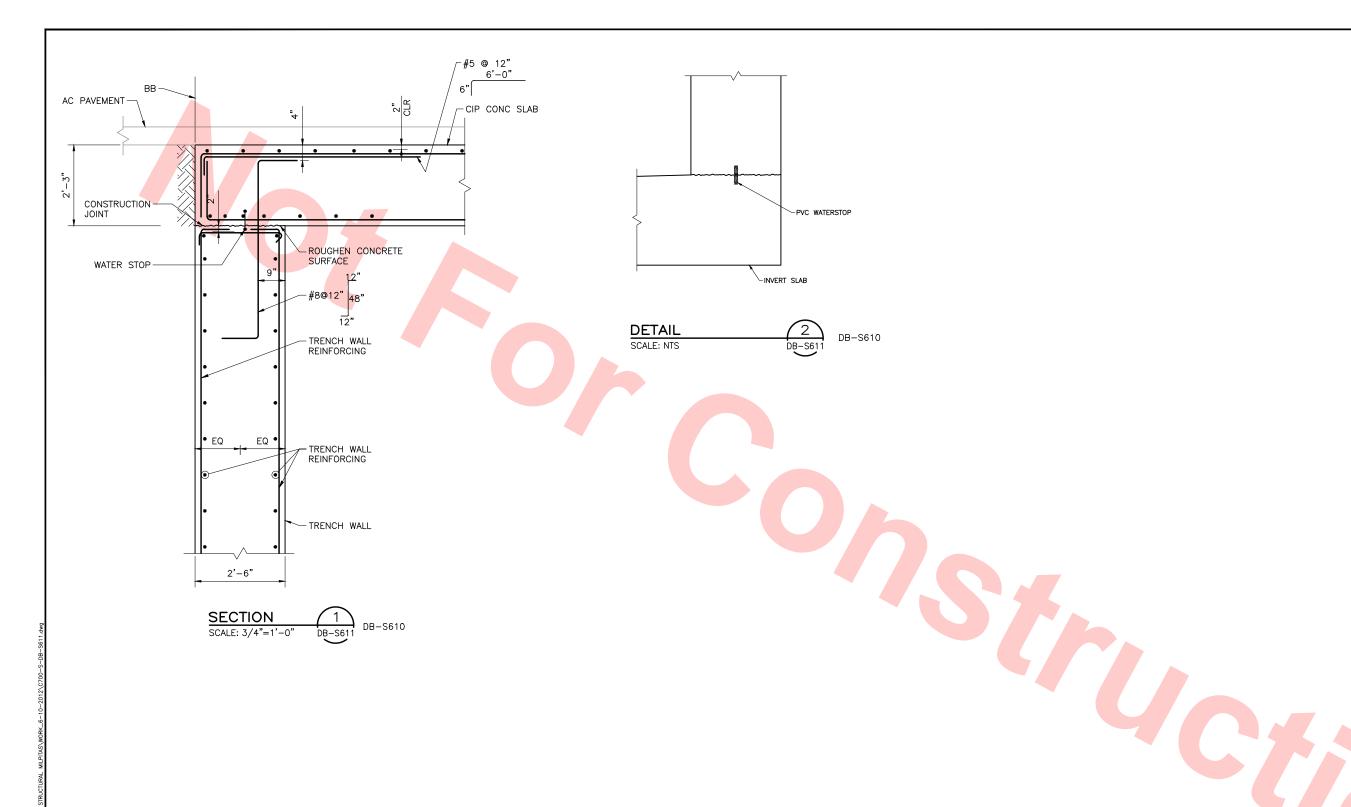


LINE, TRACK, STATI DESIGN U MILPITAS TYPICAL SECTION

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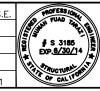
SHEET 1 OF 1

TONS AND SYSTEMS	CADD FILENAME C700-S-DB-S610.dwg
UNIT 023 STATION	SIZE SCALE D $3/8$ " = 1'-0"
STATION	CONTRACT NO DEV



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THIS DRAWING WAS SUBMITTED UNDER
DU-23-WP08 TRENCH PACKAGE

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201							DRAWN BY
92,							P. DIAZ
o In							CHECKED BY M. TARAZI
7							IN CHARGE
02	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI
)—pc	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531









LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

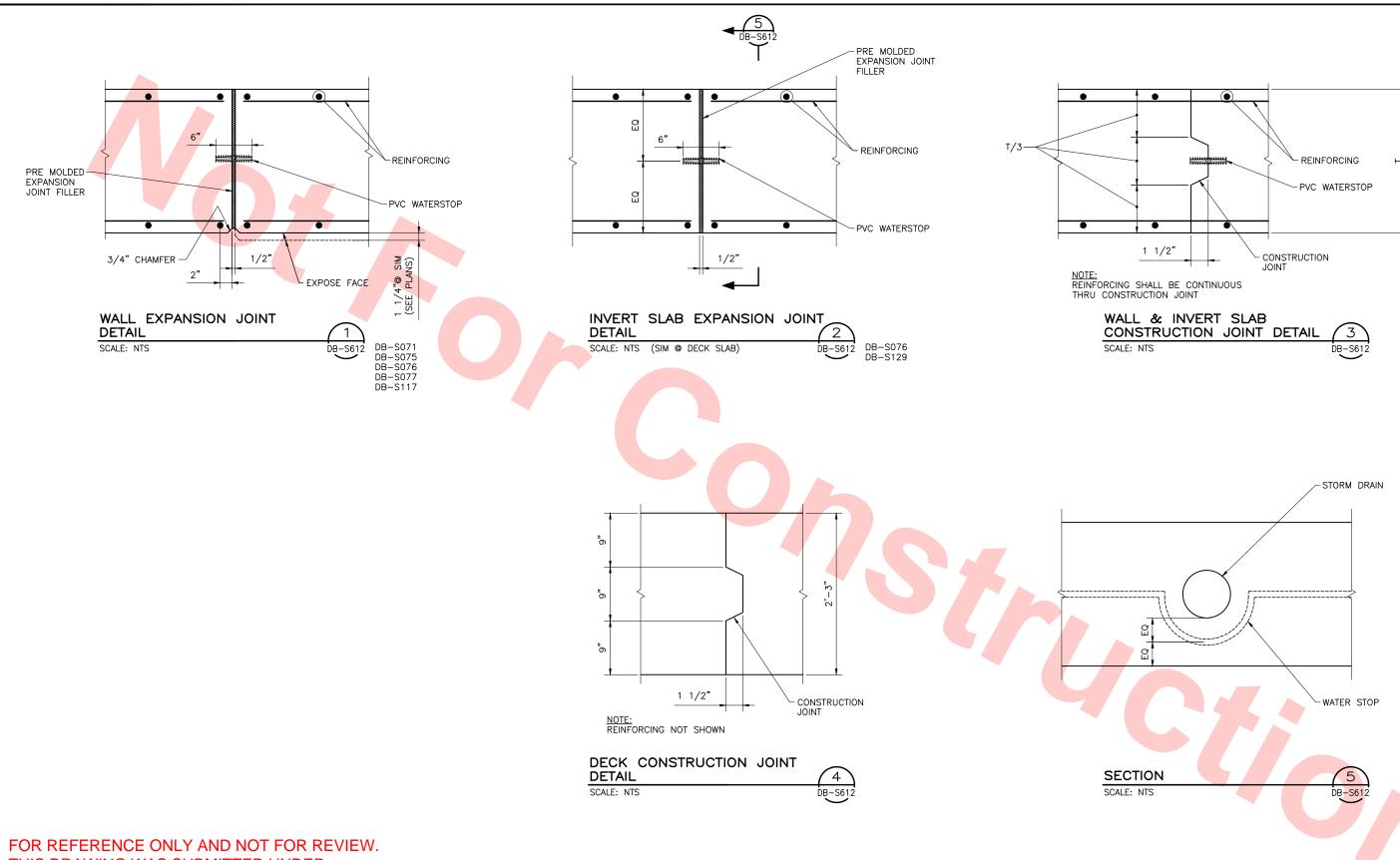
MILPITAS STATION

TYPICAL SECTION

DETAILS

SHEET 1 OF 4

S	CADD FILENAME C700—S—DB—S611.dwg						
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		CODE	SHEET S6	NO. 311	PAGE NO. 0213		



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						DESIGNED BY J. REBER, S.E. DRAWN BY P. DIAZ	PROFESS 10 ML TUAD 7 MP 1 TUAD	Skanska Shimmick Herzog
5						IN CHARGE	© # S 3185 EXP. <u>6/30/1</u> 4	MFT Consulting E ngineers, Inc. Anil Verma Associates, In
0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	TA PUCTURAL OF THE	Pinole, CA 94564 Fax (510) 222-6418
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531	OF CALIFOR	SUBMITTED





LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TYPICAL SECTION

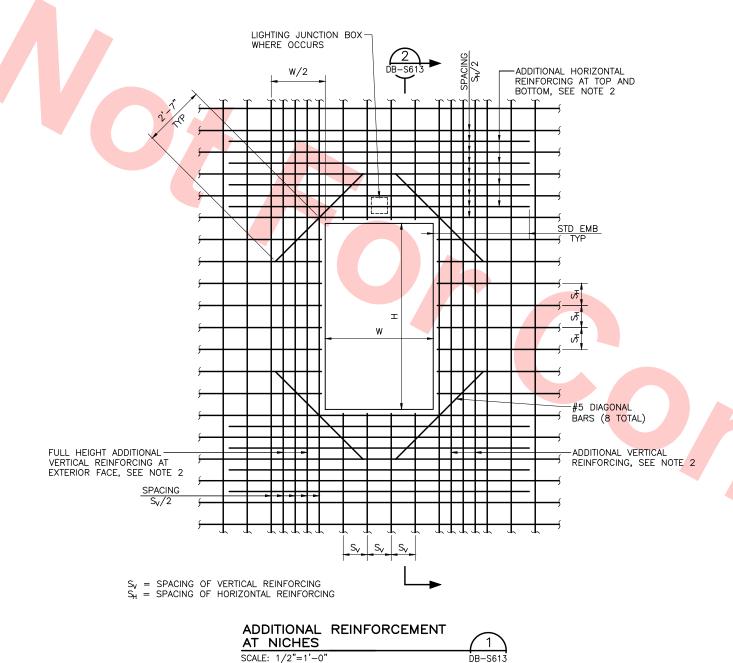
DETAILS

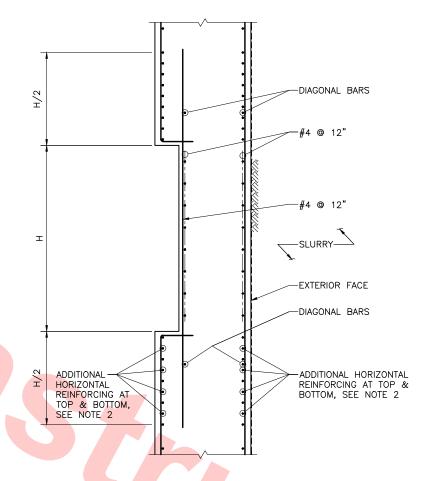
SHEET 2 OF 4

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NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF NICHES. SEE DWG DB—S614 FOR NICHES SIZES.
- 2. THE AREA OF THE ADDITIONAL VERTICAL REINFORCING AND THE ADDITIONAL HORIZONTAL REINFORCING SHALL NOT BE LESS THAN THE INTERRUPTED VERTICAL AND HORIZONTAL REINFORCING. RESPECTIVELY, ADDITIONAL REINFORCING SHALL BE DISTRIBUTED WITHIN THE DISTANCE SHOWN IN THE DETAILS



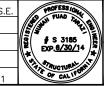


SECTION AT NICHE
SCALE: 1/2"=1'-0"

DB-S613

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS SUBMITTED UNDER DU-23-WP08 TRENCH PACKAGE

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ı							DESIGNED BY J. REBER, S.E.	
2013							DRAWN BY	18/3
Jul 05,							P. DIAZ CHECKED BY M. TARAZI	E0151
	_	20130531				READINESS FOR CONSTRUCTION	IN CHARGE M. TARAZI	
cad-02		DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531	





SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture





LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

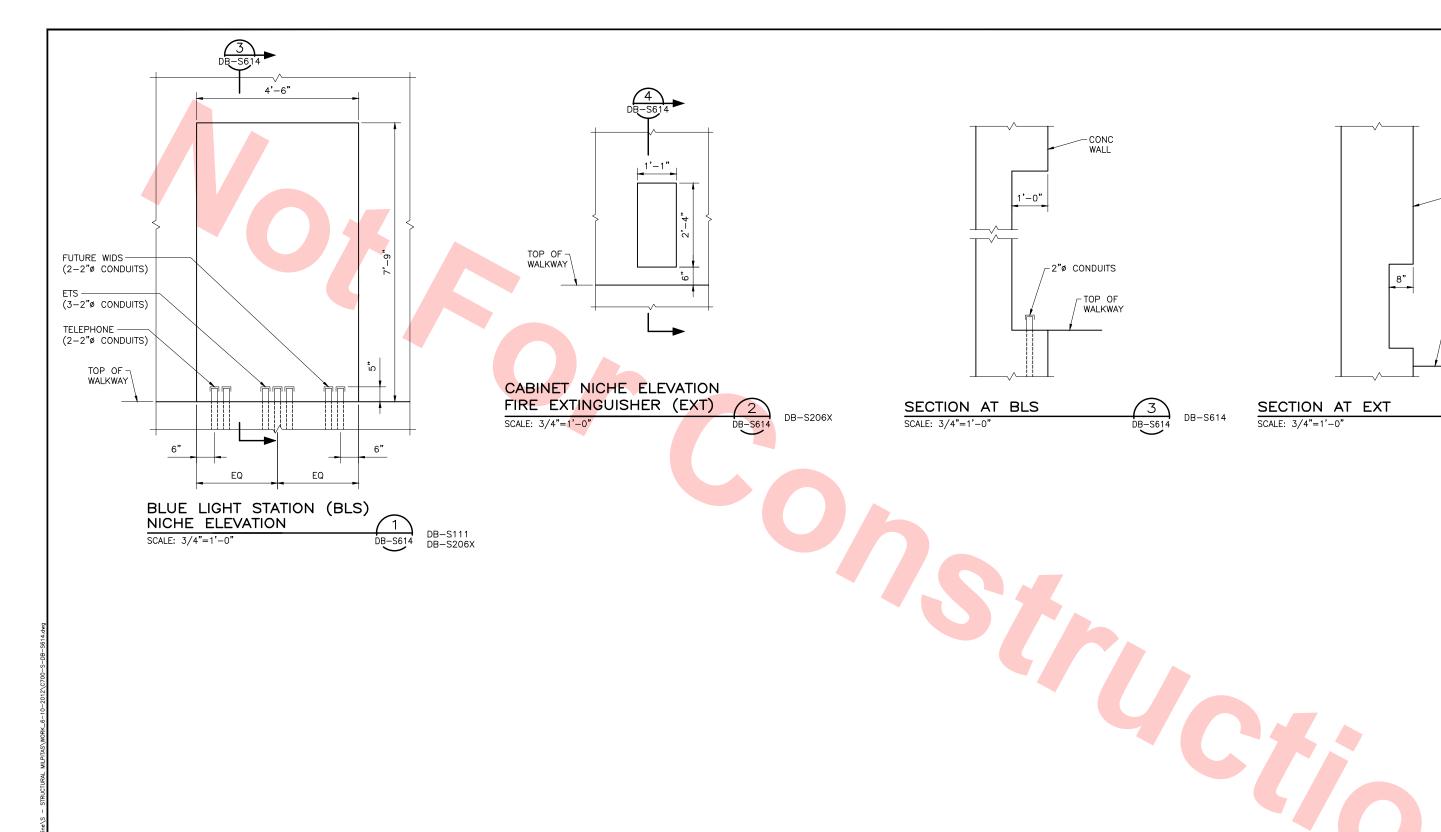
MILPITAS STATION

TYPICAL SECTION

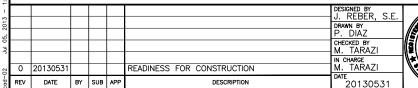
DETAILS

SHEET 3 OF 4

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LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION TYPICAL SECTION DETAILS

SHEET 4 OF 4

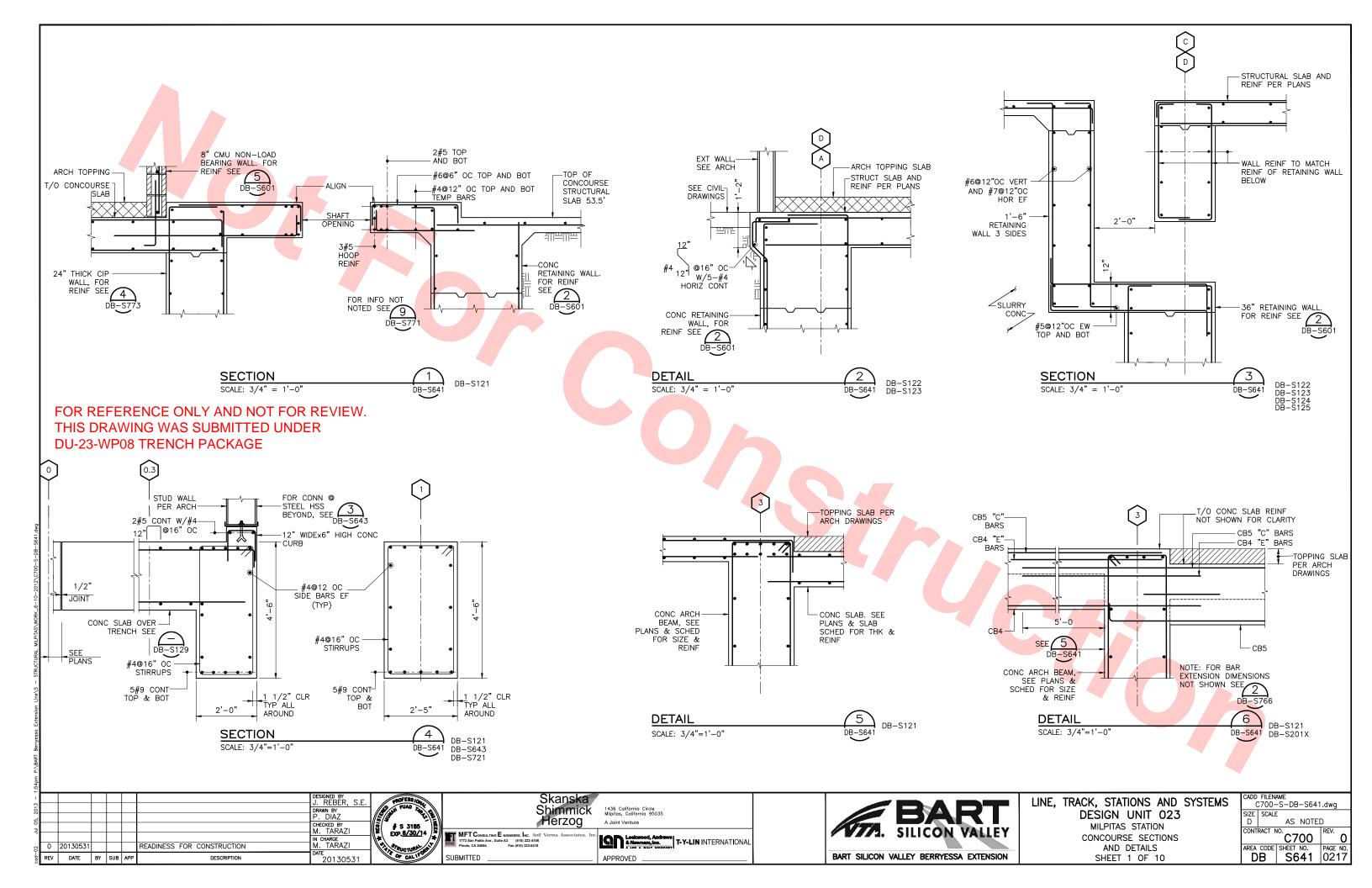
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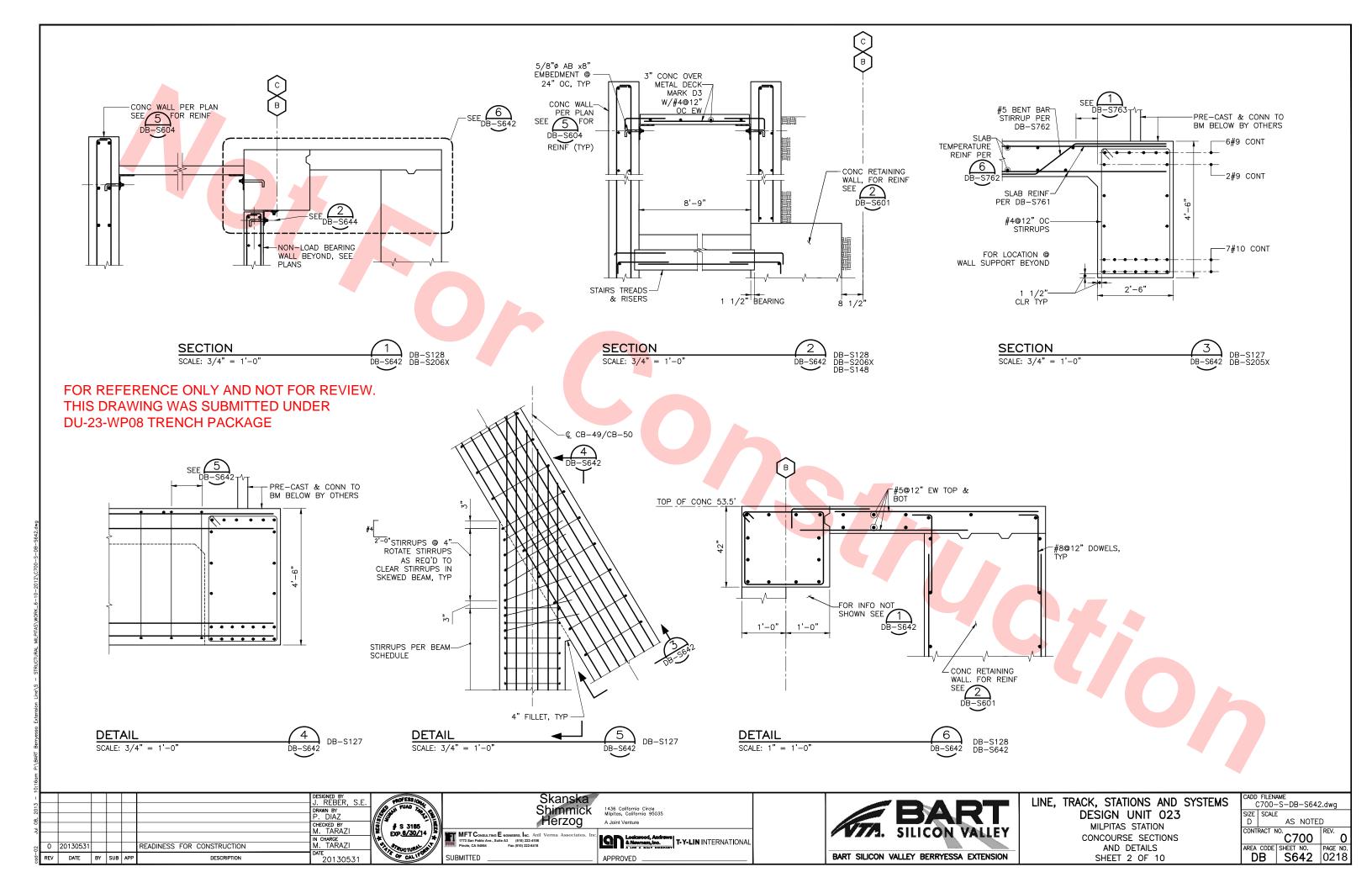
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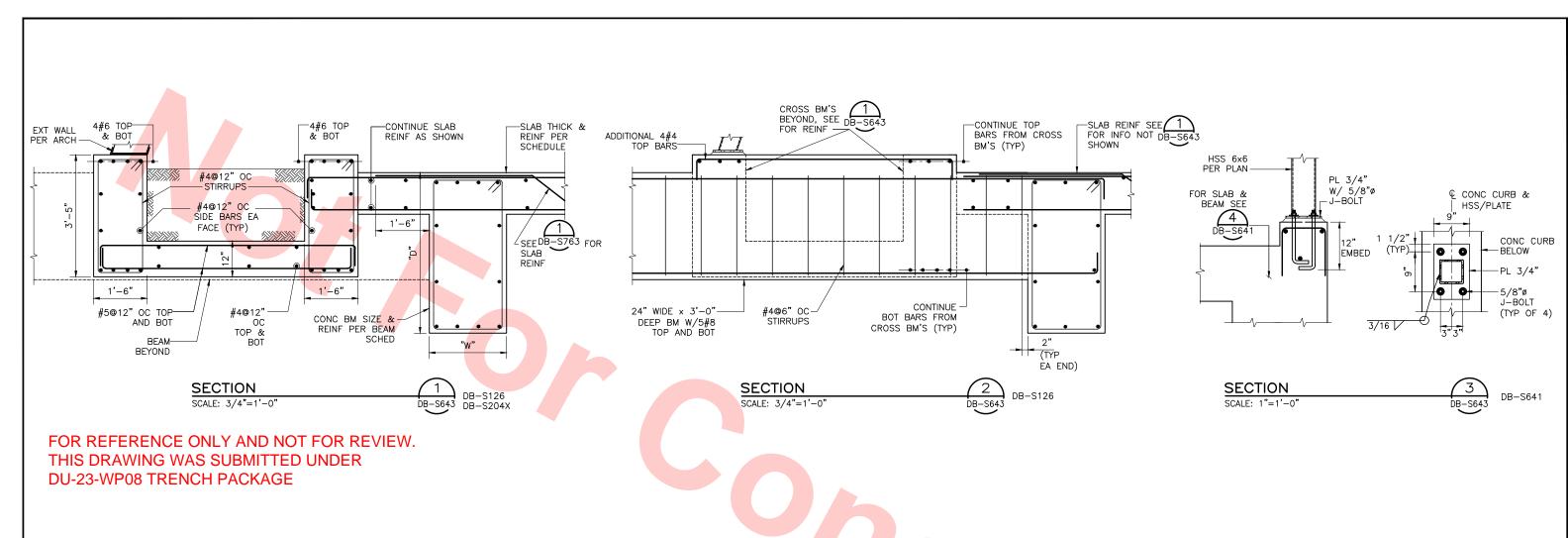
TOP OF WALKWAY

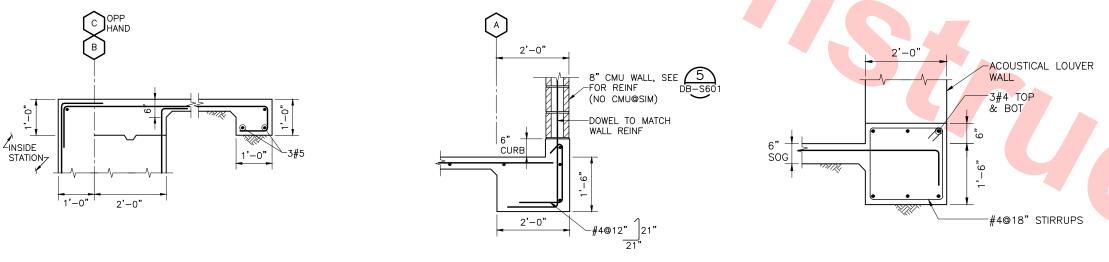
DB-S614

DB-S614









SECTION 5

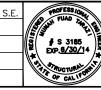
SCALE: 3/4"=1'-0" DB-S643

DB-S121

SECTION SCALE: 3/4"=1'-0"

6	
B-S643	DB-S12

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1							DESIGNED BY J. REBER, S.E.
13							
8							DRAWN BY
							P. DIAZ
05							CHECKED BY
3				┢			M. TARAZI
							IN CHARGE
02							M. TARAZI
Ī				-			DATE
9	REV	DATE	BY	SUB	APP	DESCRIPTION	



SUBMITTED

	Skanska Shimmick Herzog
MT	MFT Consulting E ngineers, Inc. Anil Verma Associates, Inc. 1773 San Pablo Ave., Suite A3 (510) 222-4106

1436 California Circle Milpitas, California 95035 A Joint Venture



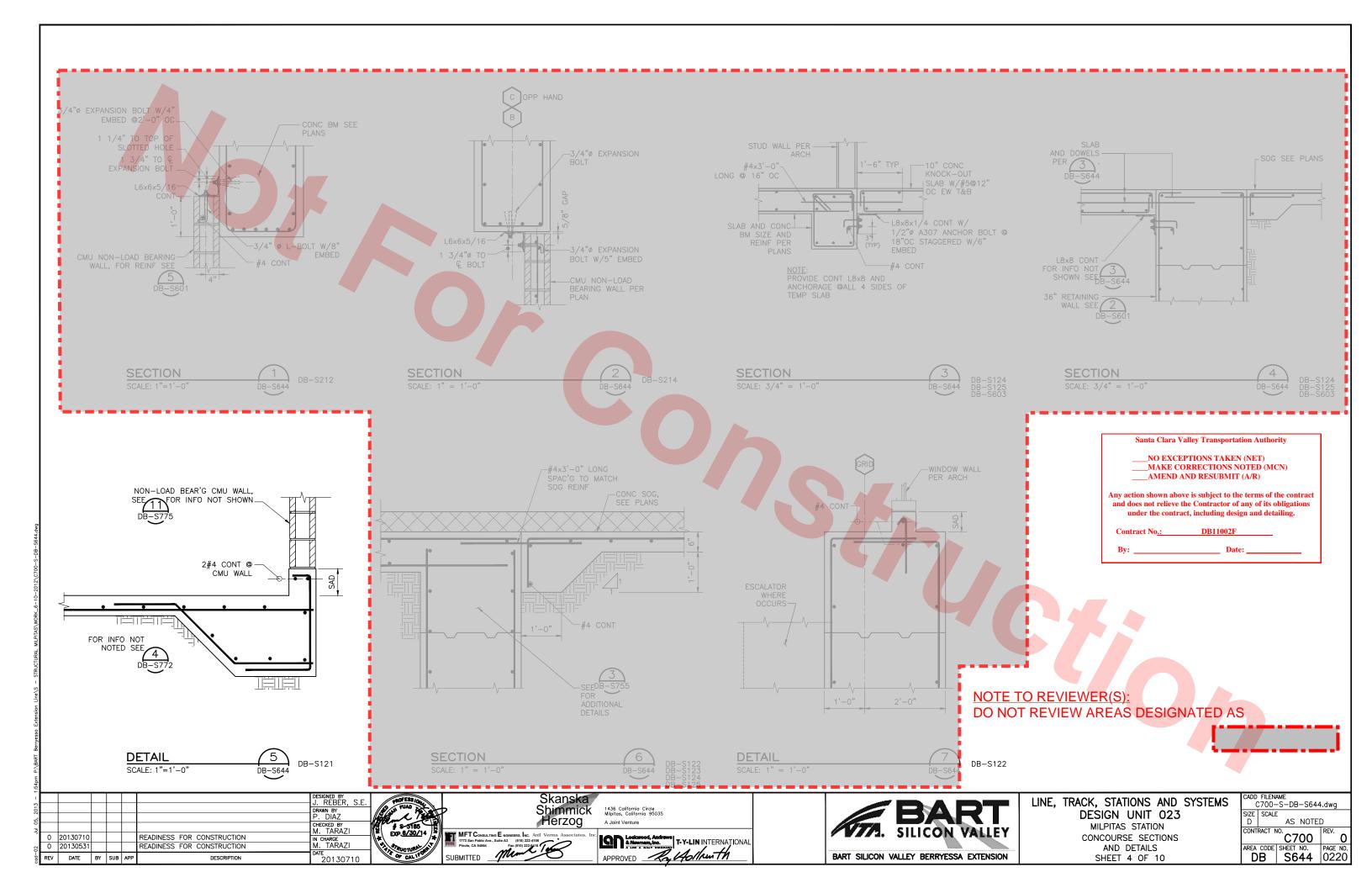


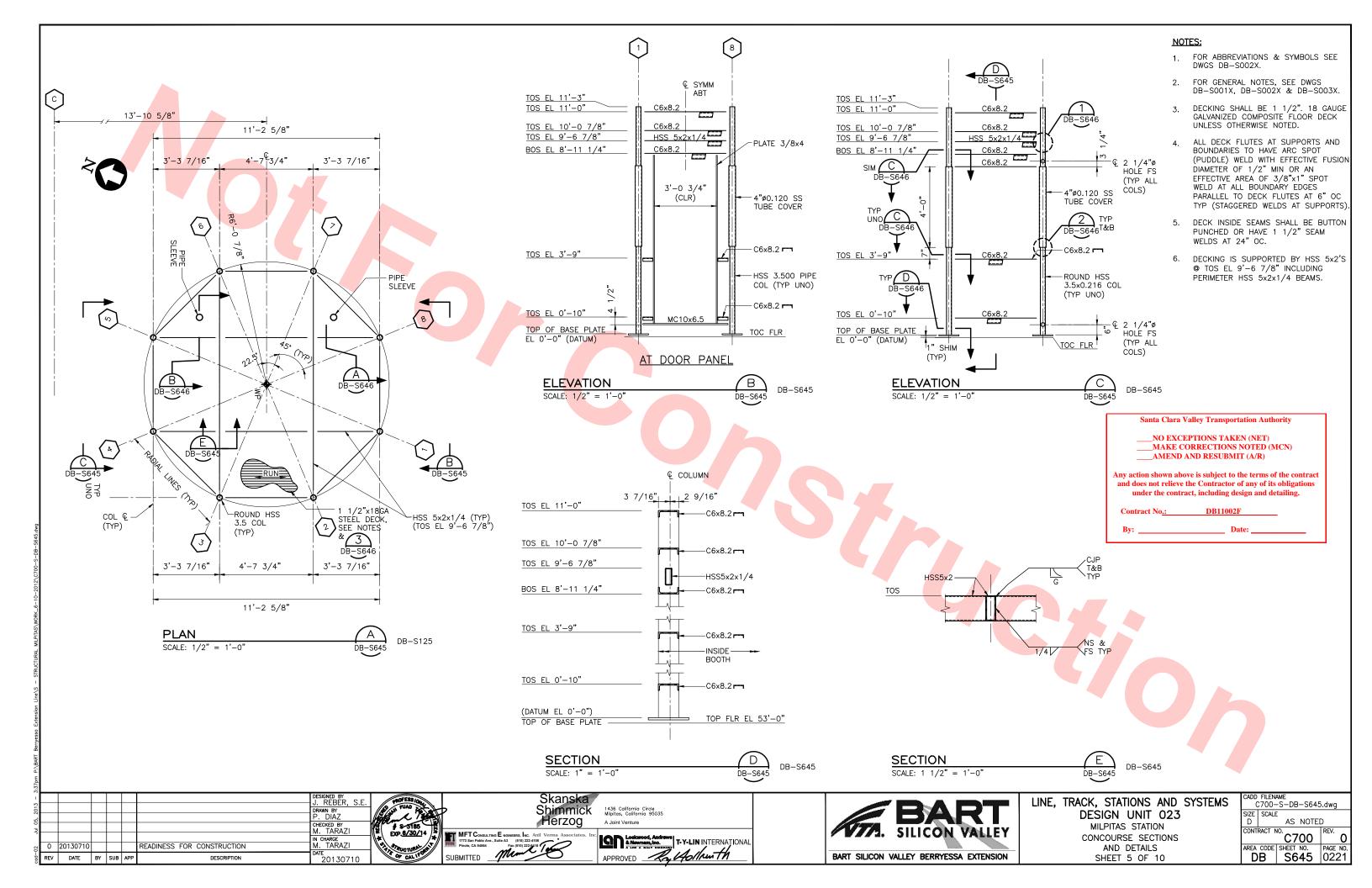
LINE,	TRACK, STATIONS AND SYSTEMS	
	DESIGN UNIT 023	
	MILPITAS STATION	
	CONCOURSE SECTIONS	

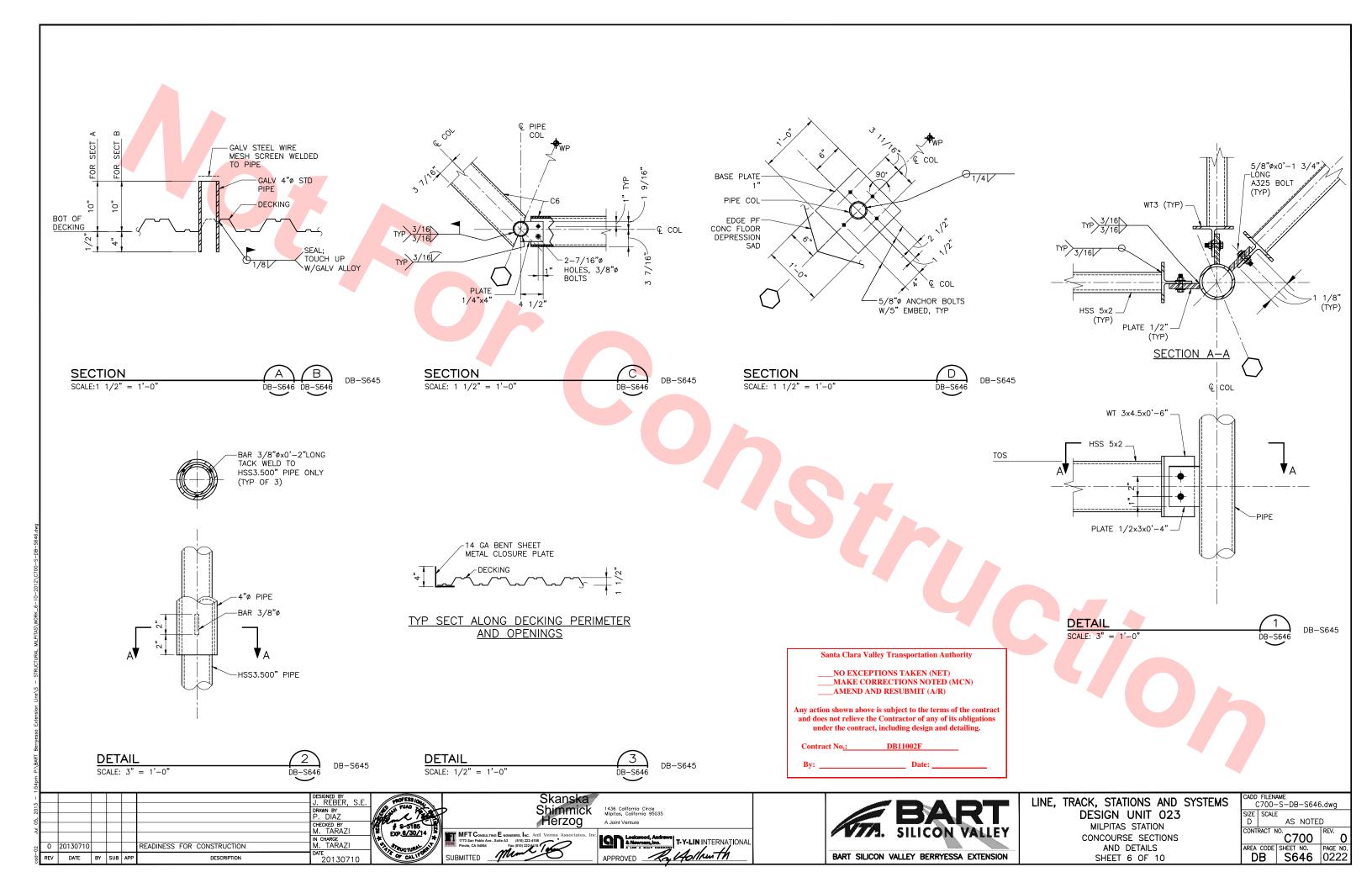
AND DETAILS

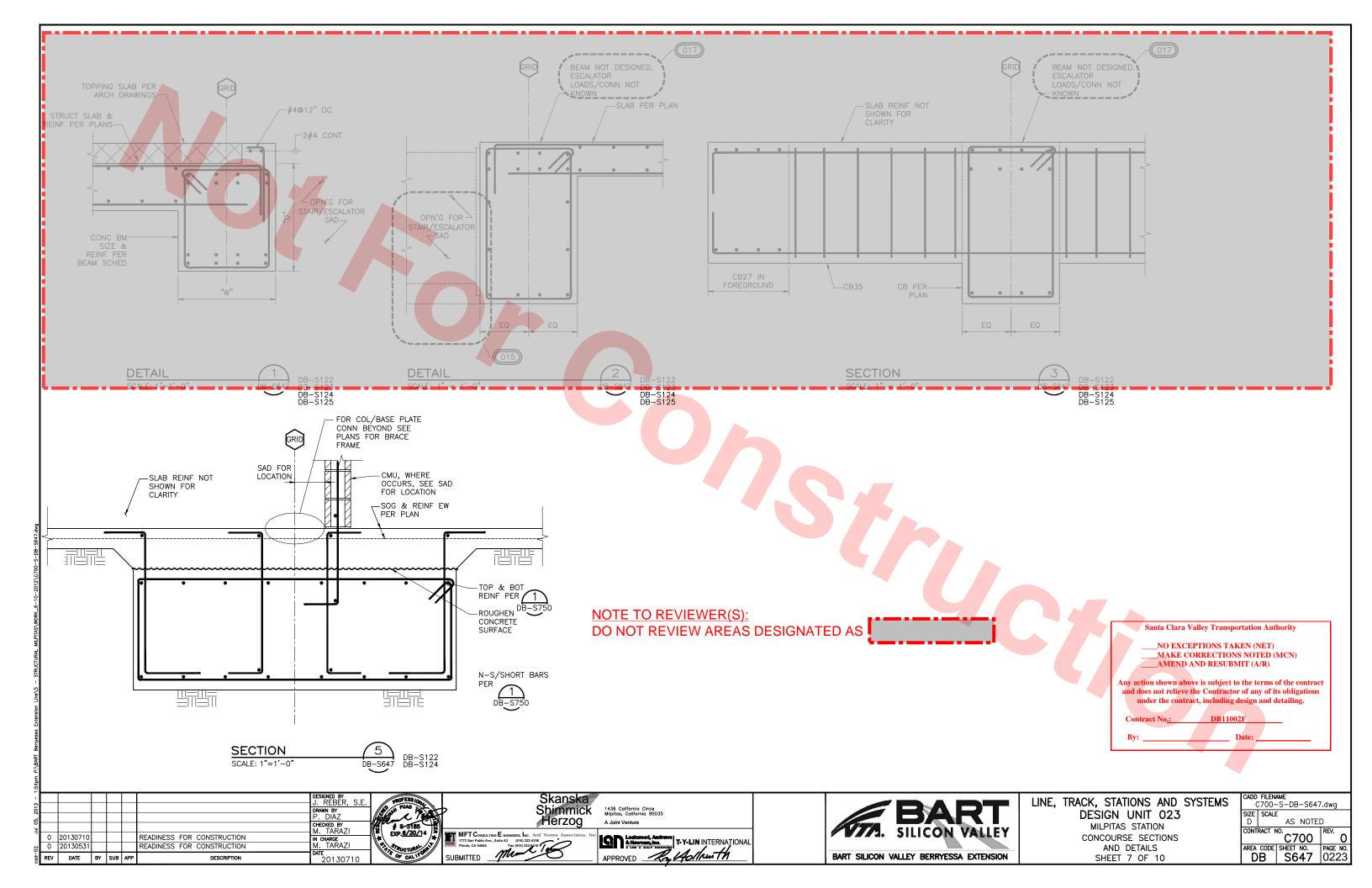
SHEET 3 OF 10

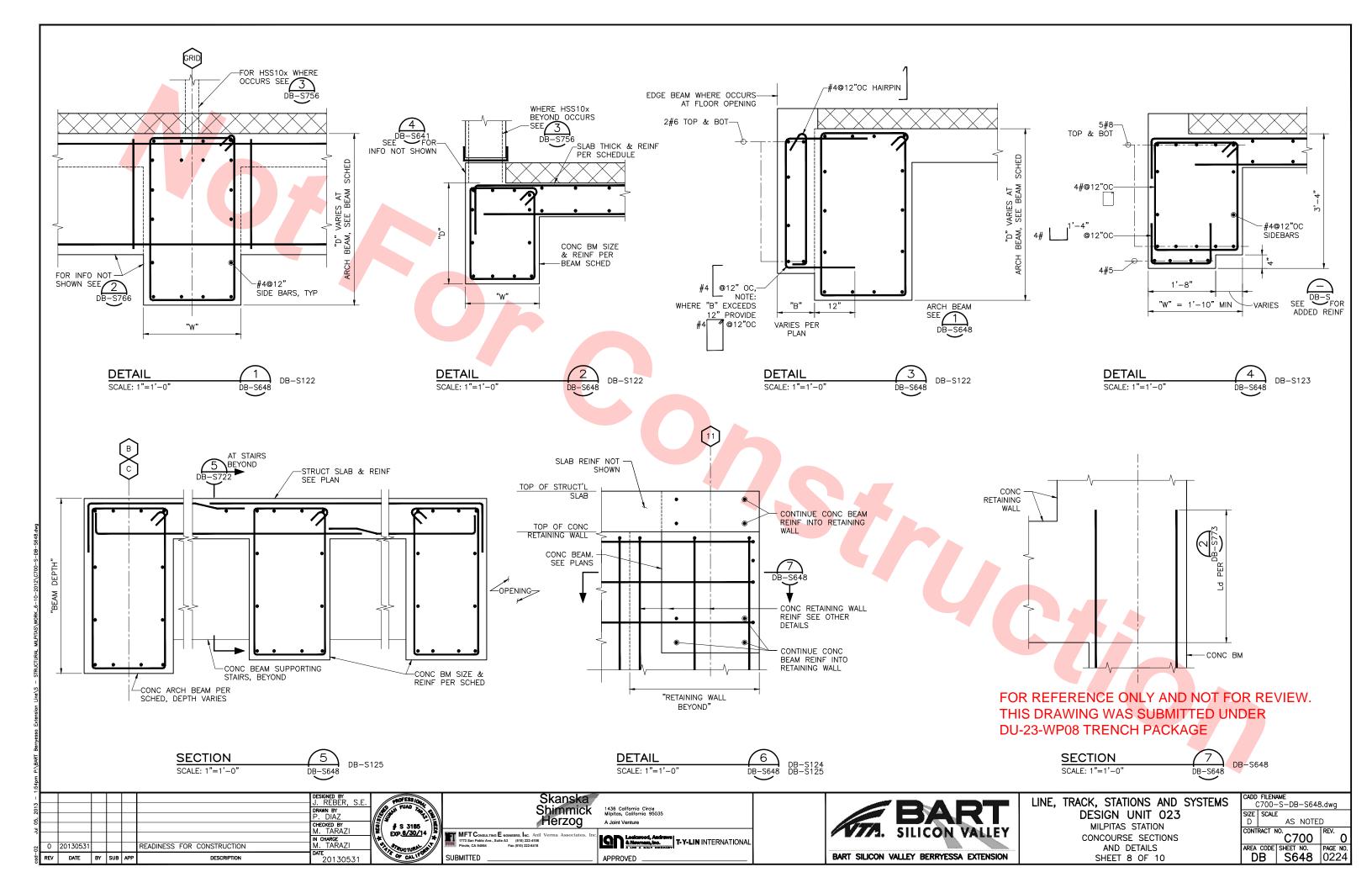
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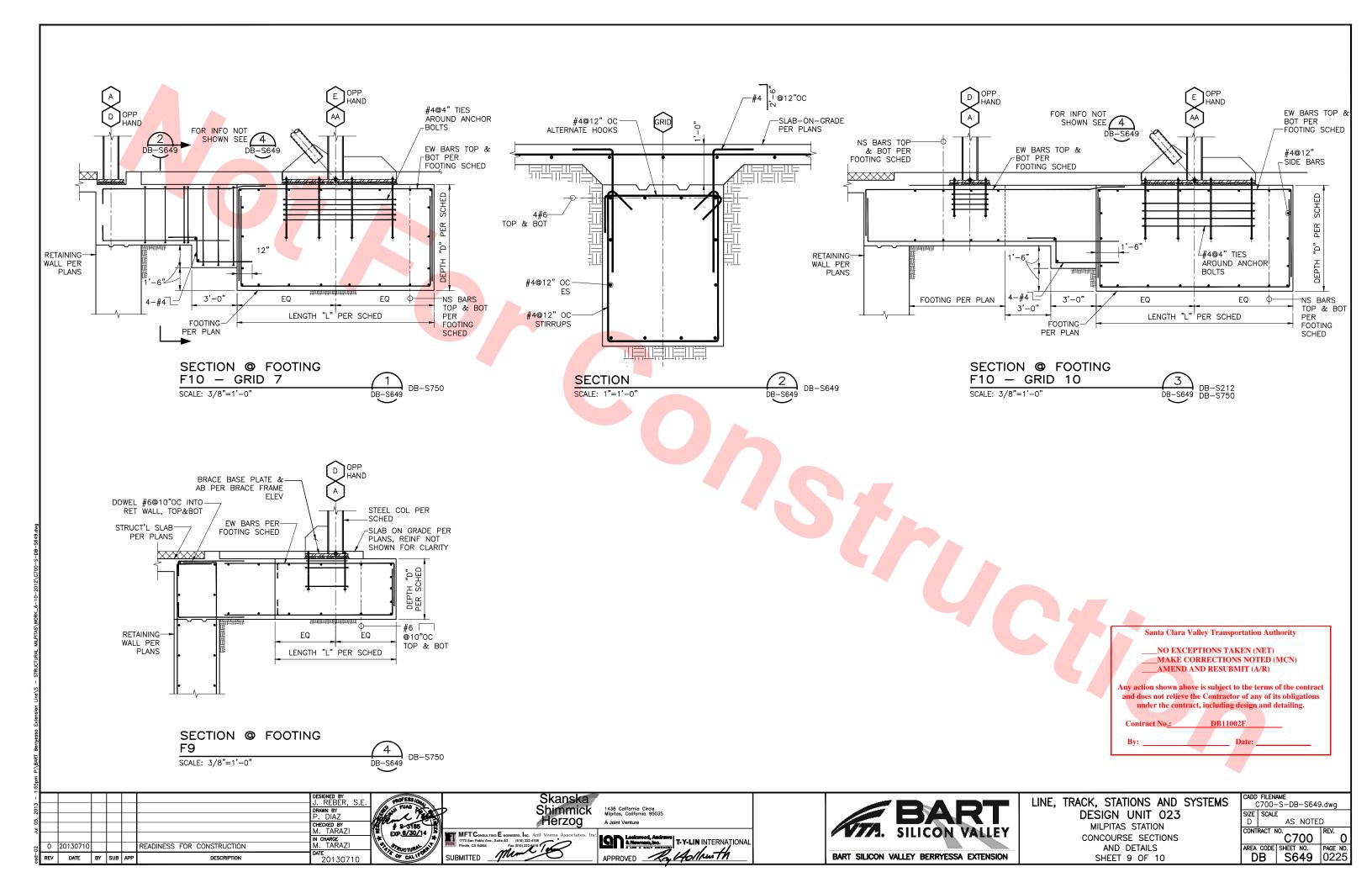


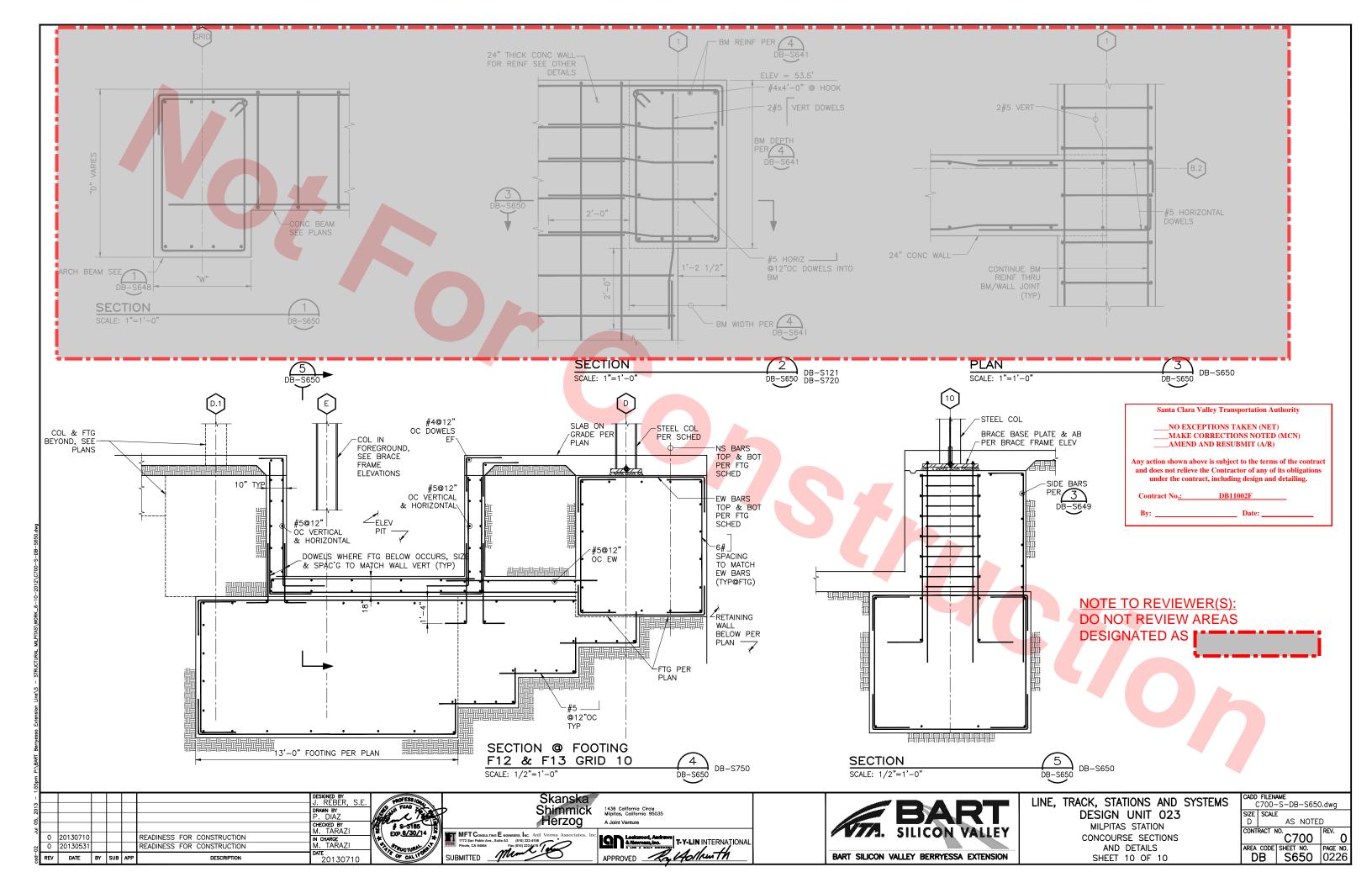


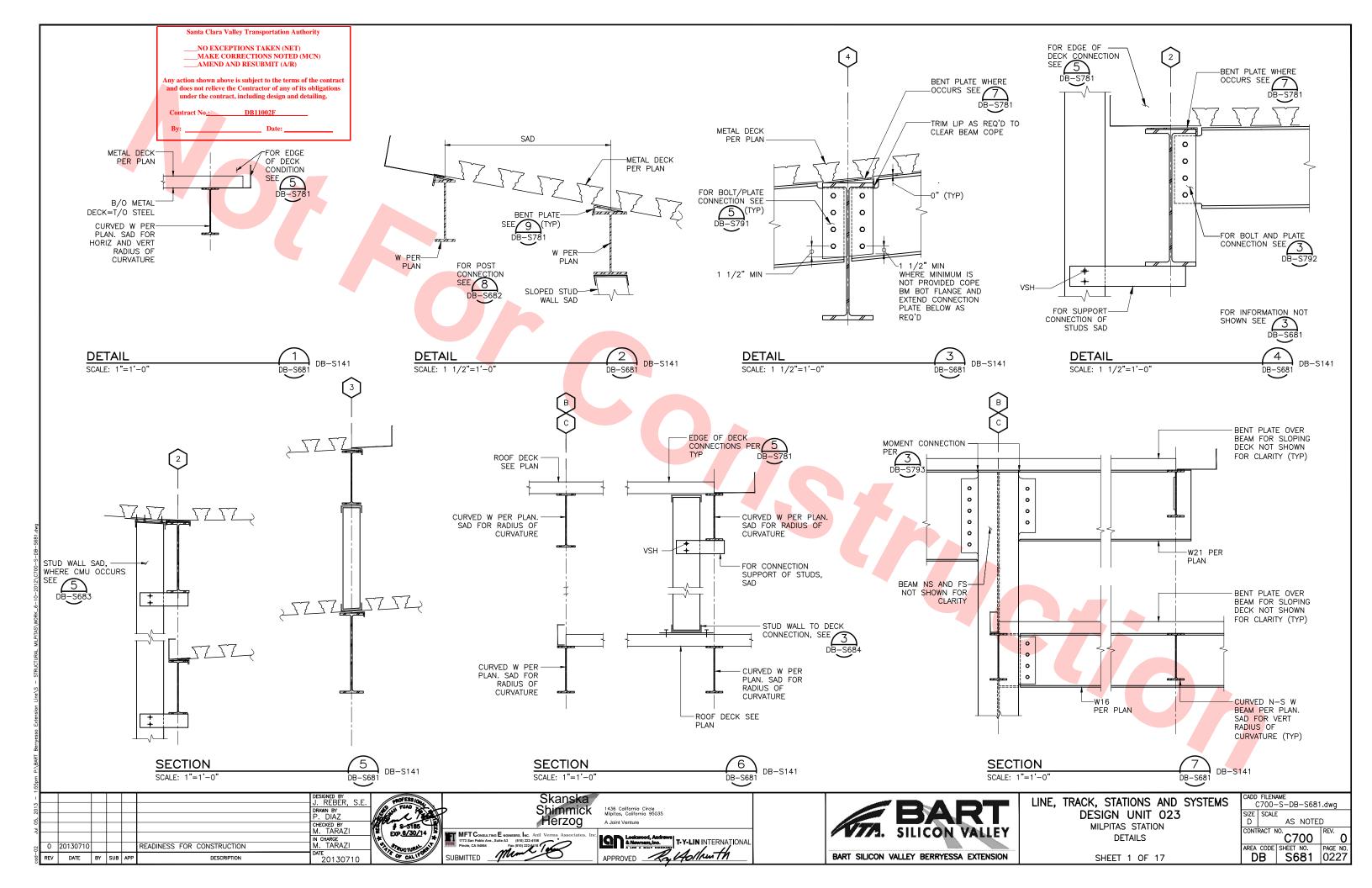


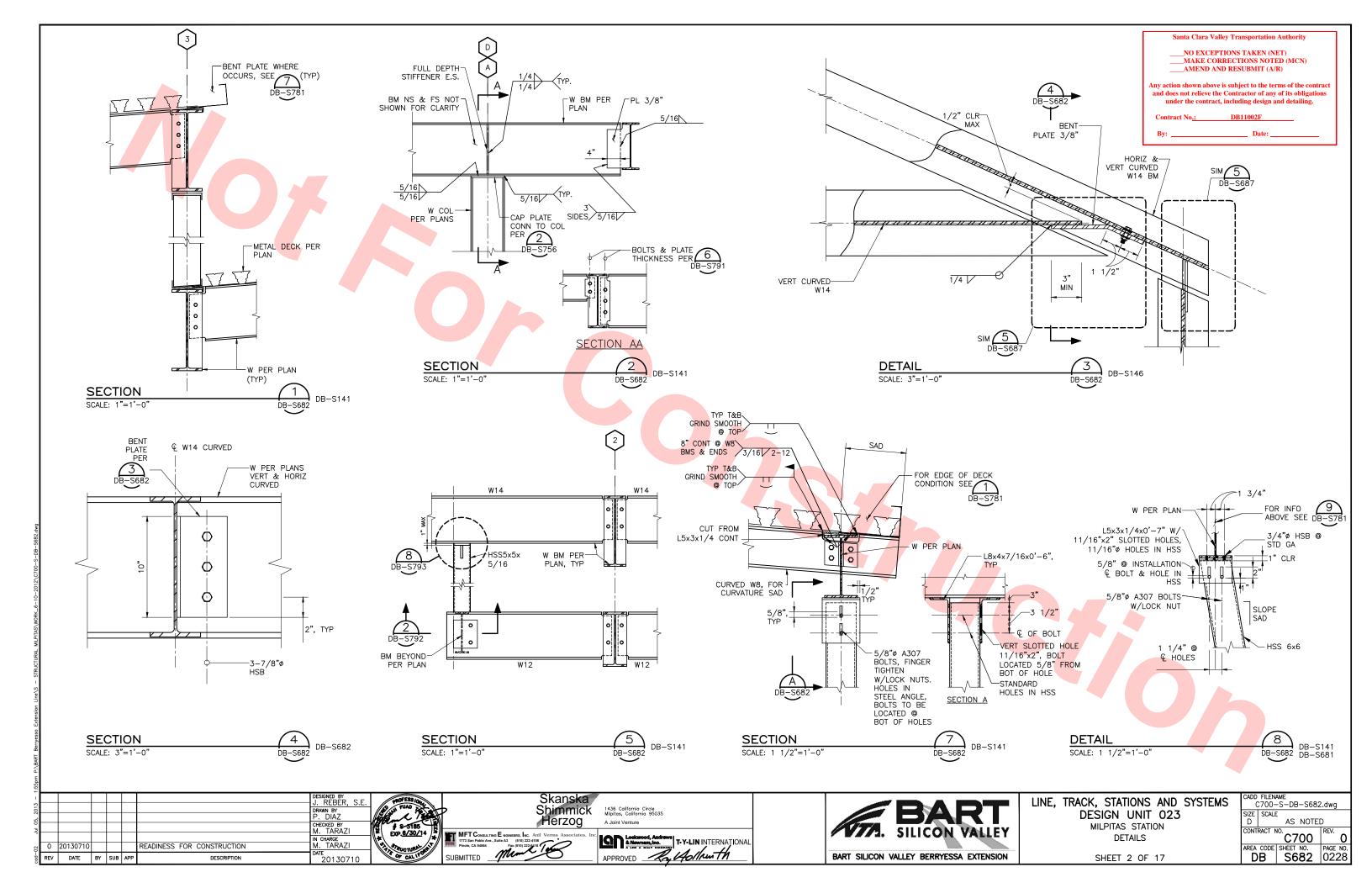


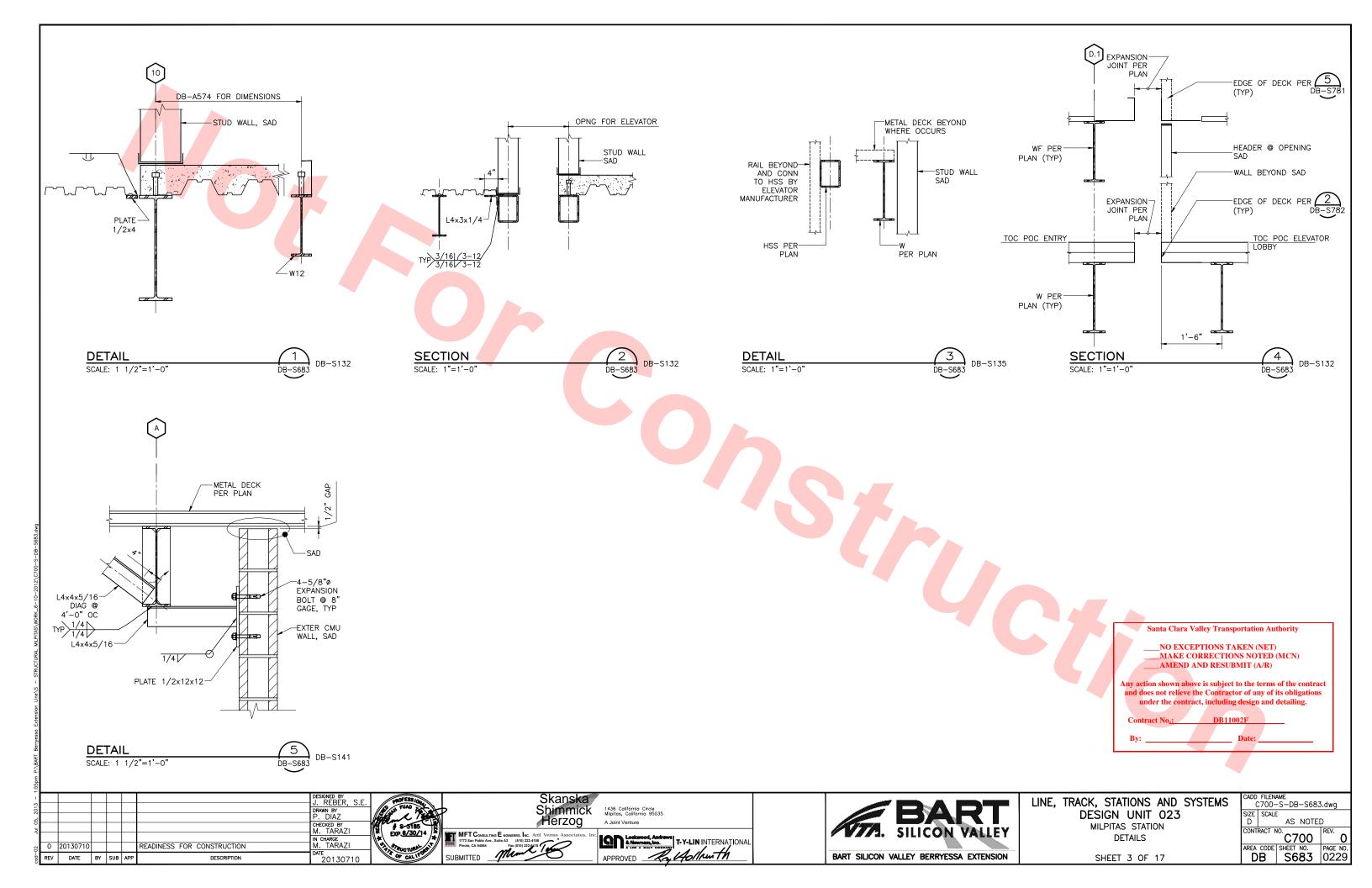


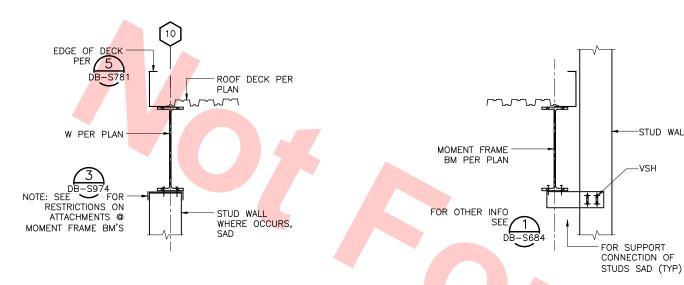


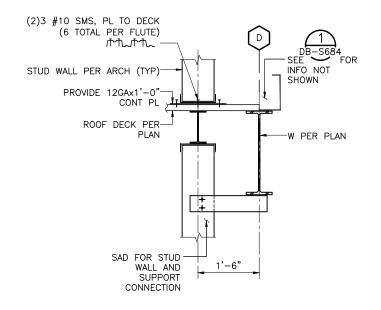












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DETAIL SCALE: 1"=1'-0" DB-S684

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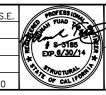
DETAIL DB-S149 SCALE: 1"=1'-0"

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

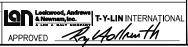
ny action shown above is subject to the terms of the contract nd does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

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Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Vol. 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole. CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035



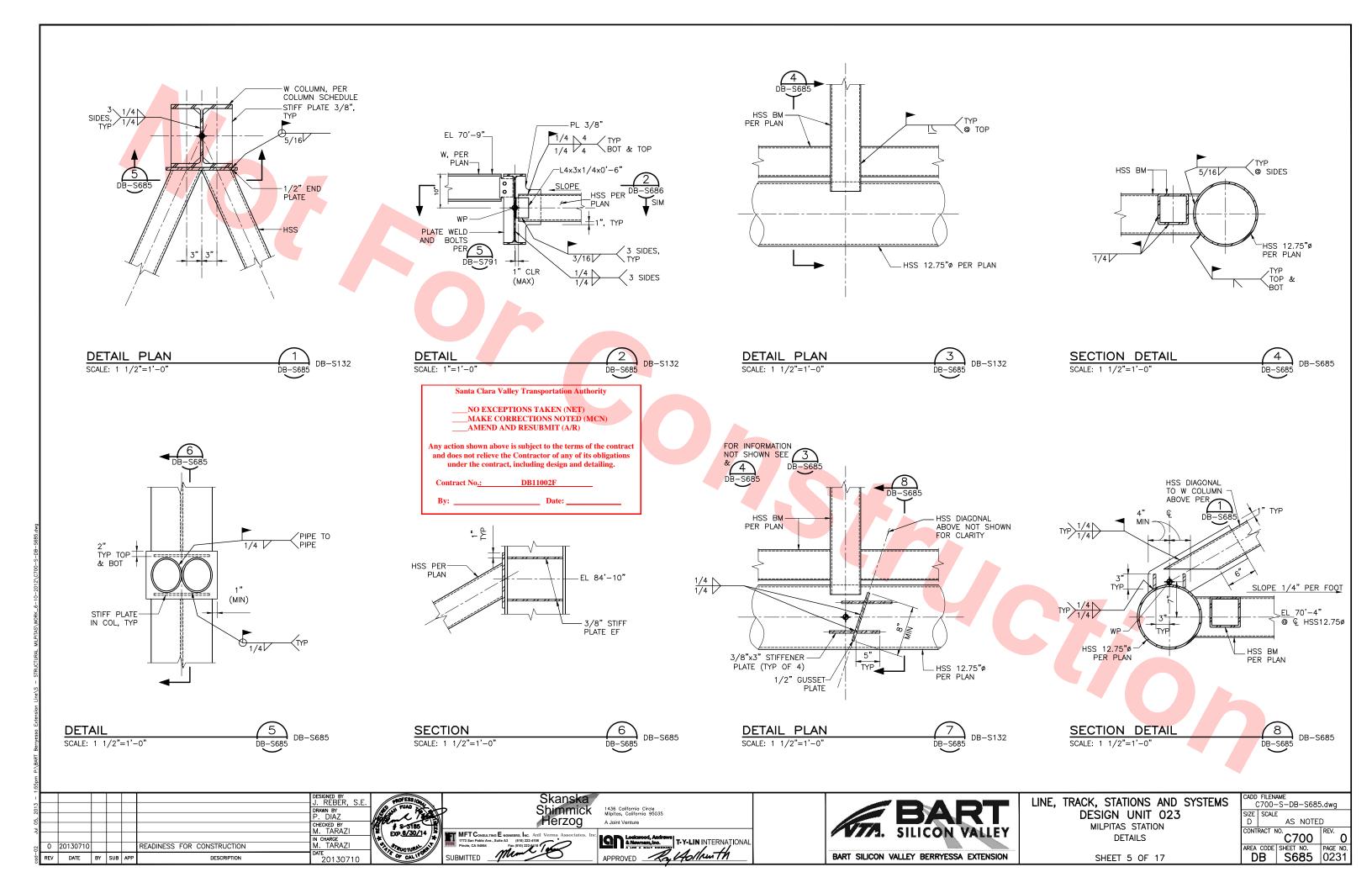


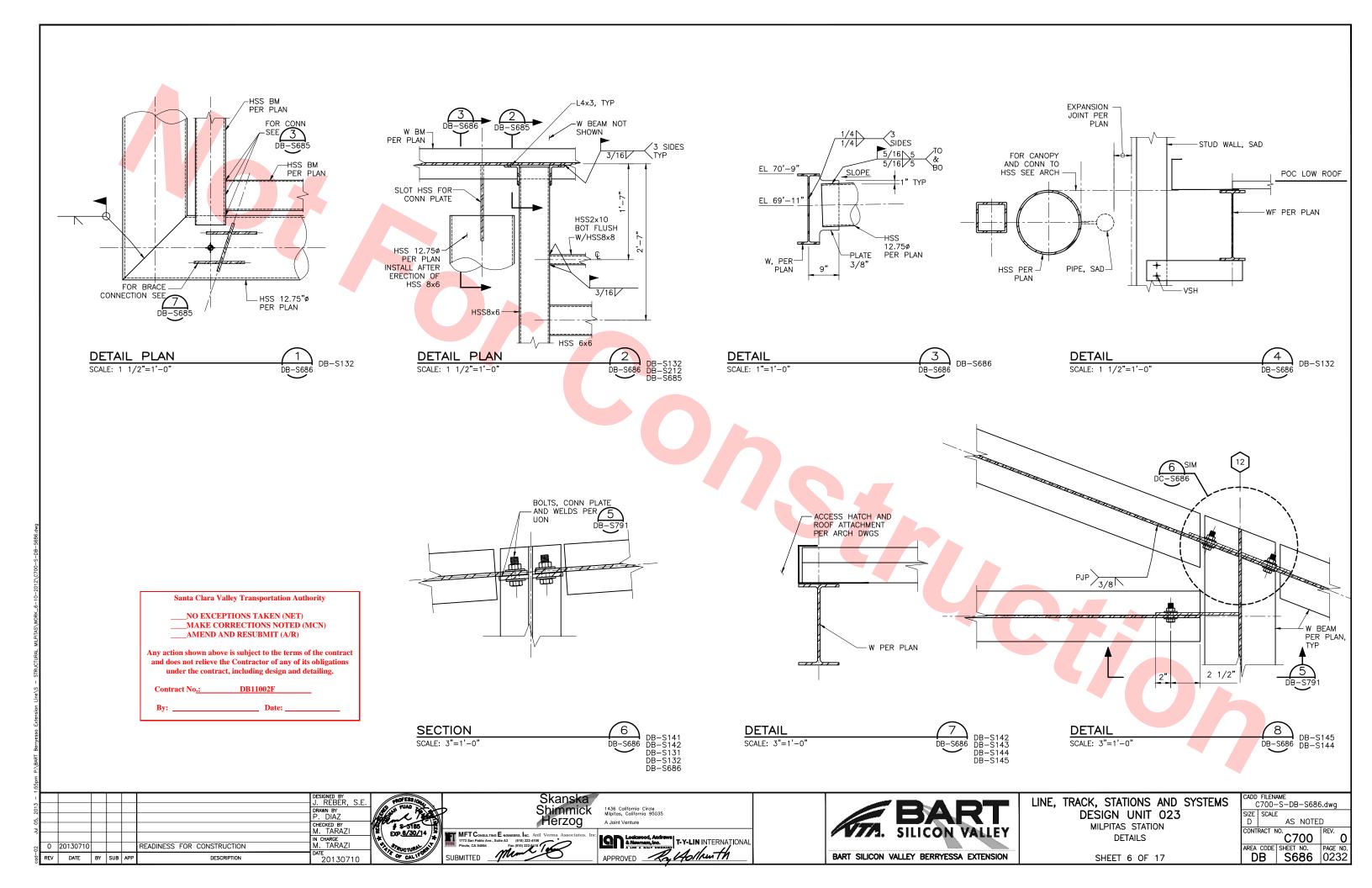
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION DETAILS

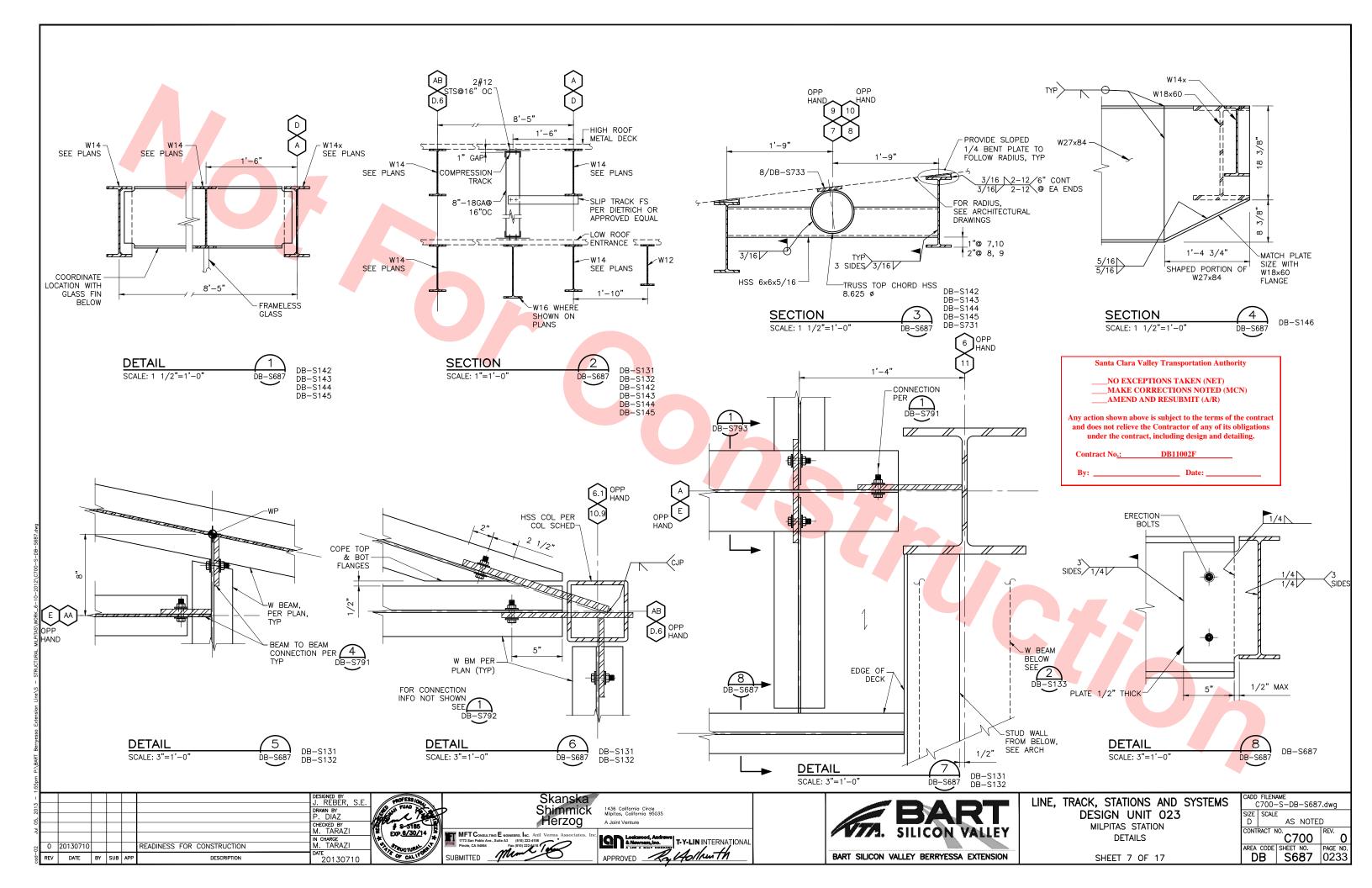
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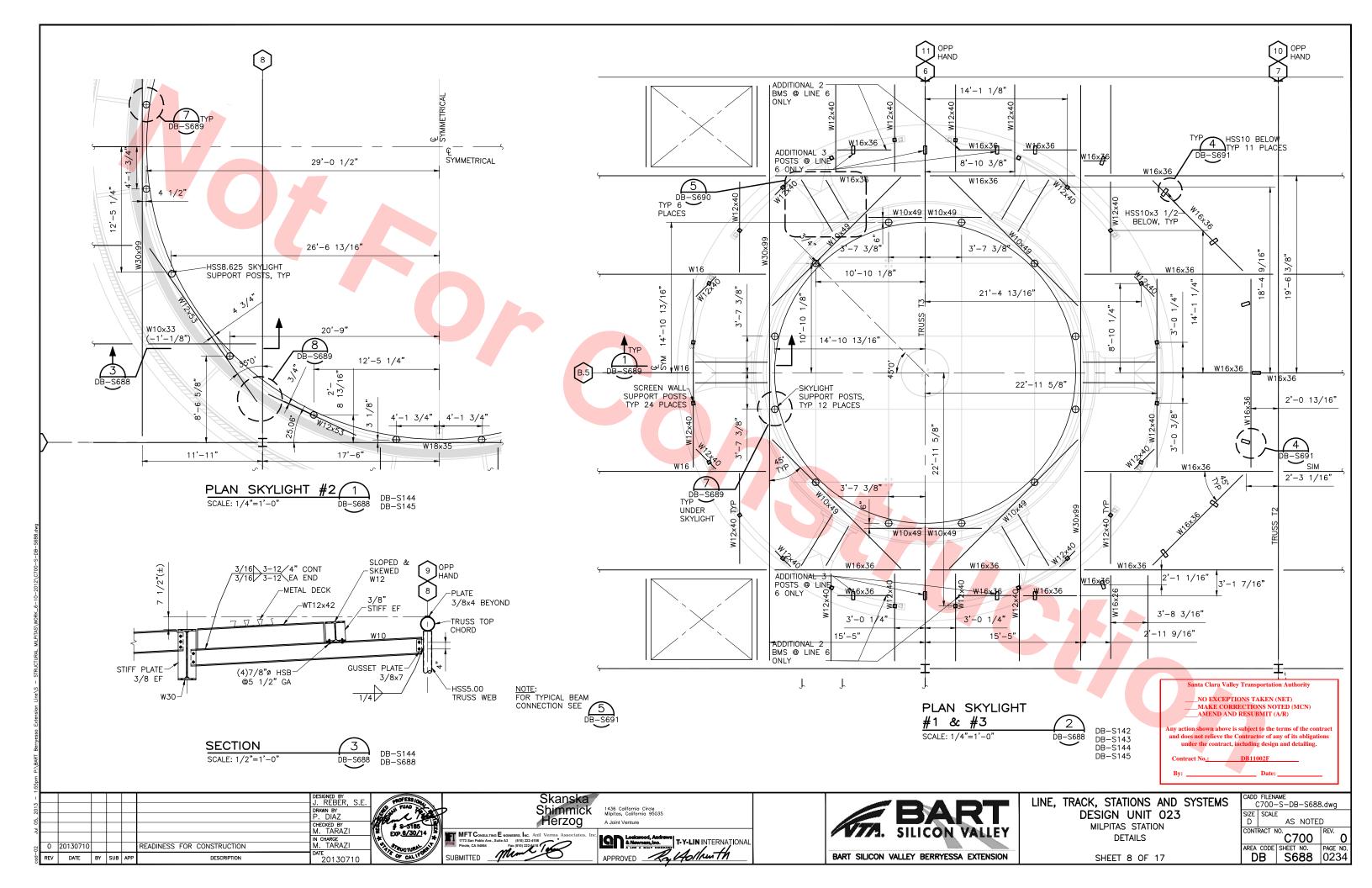
SHEET 4 OF 17

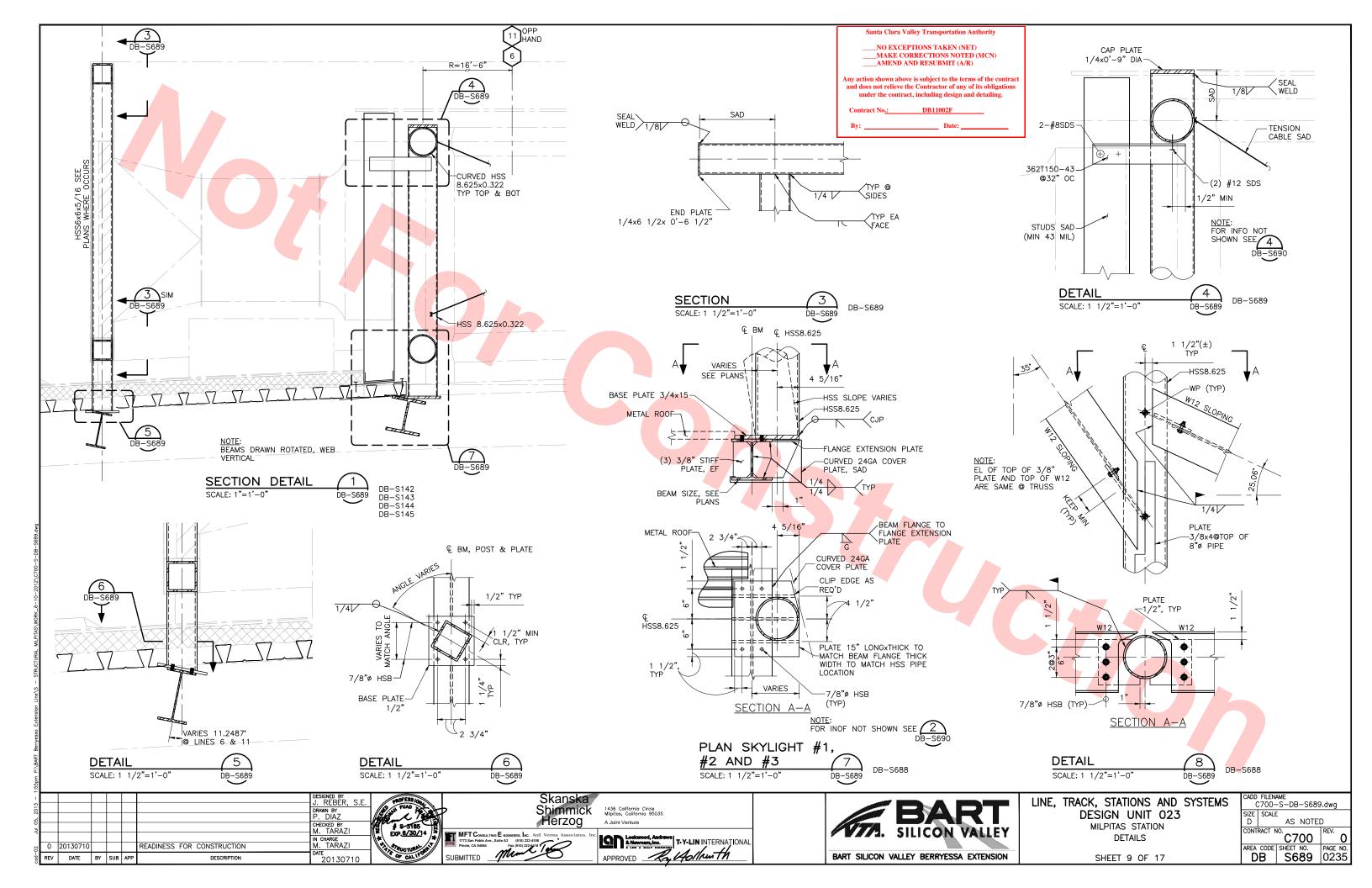
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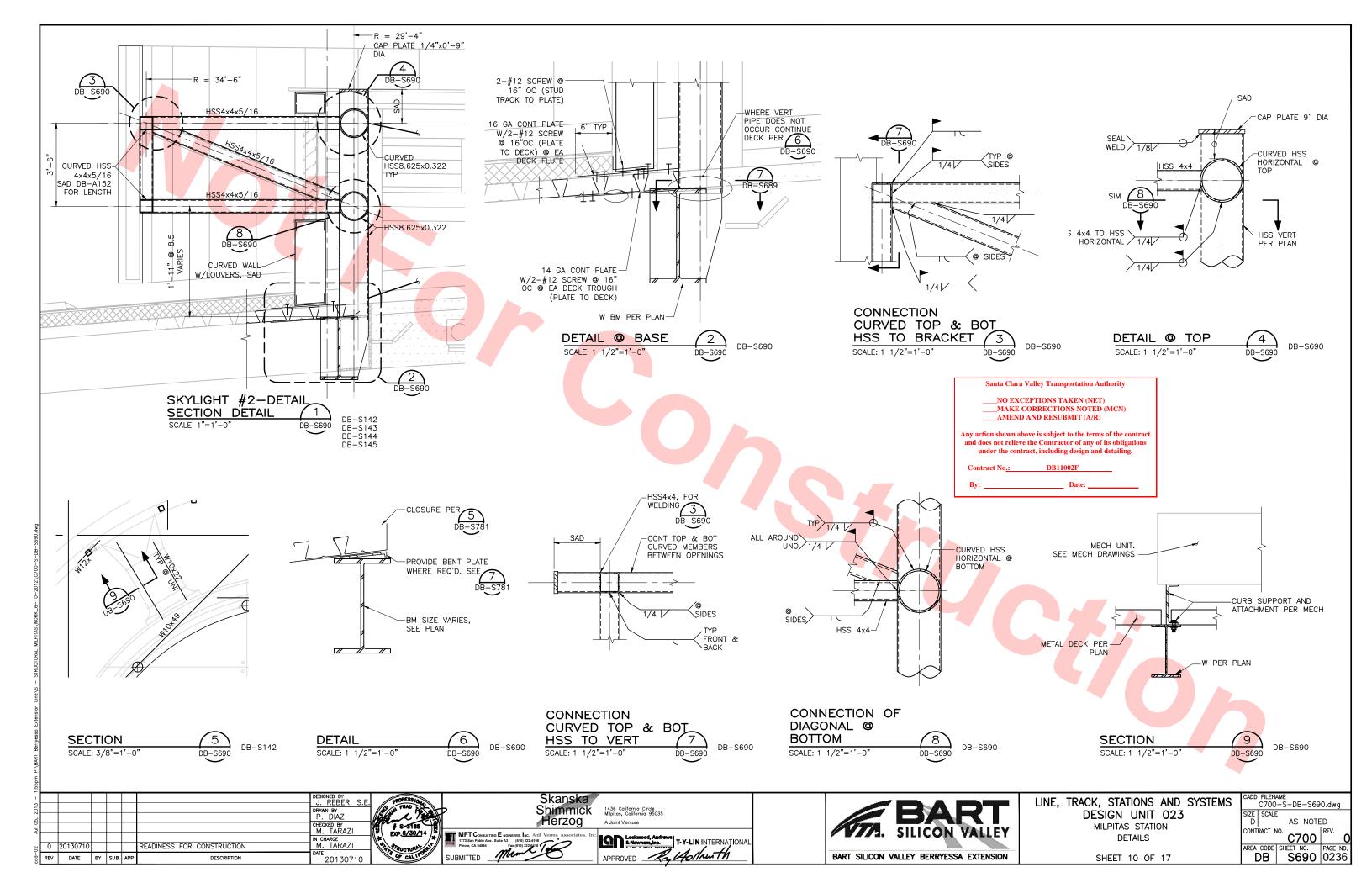


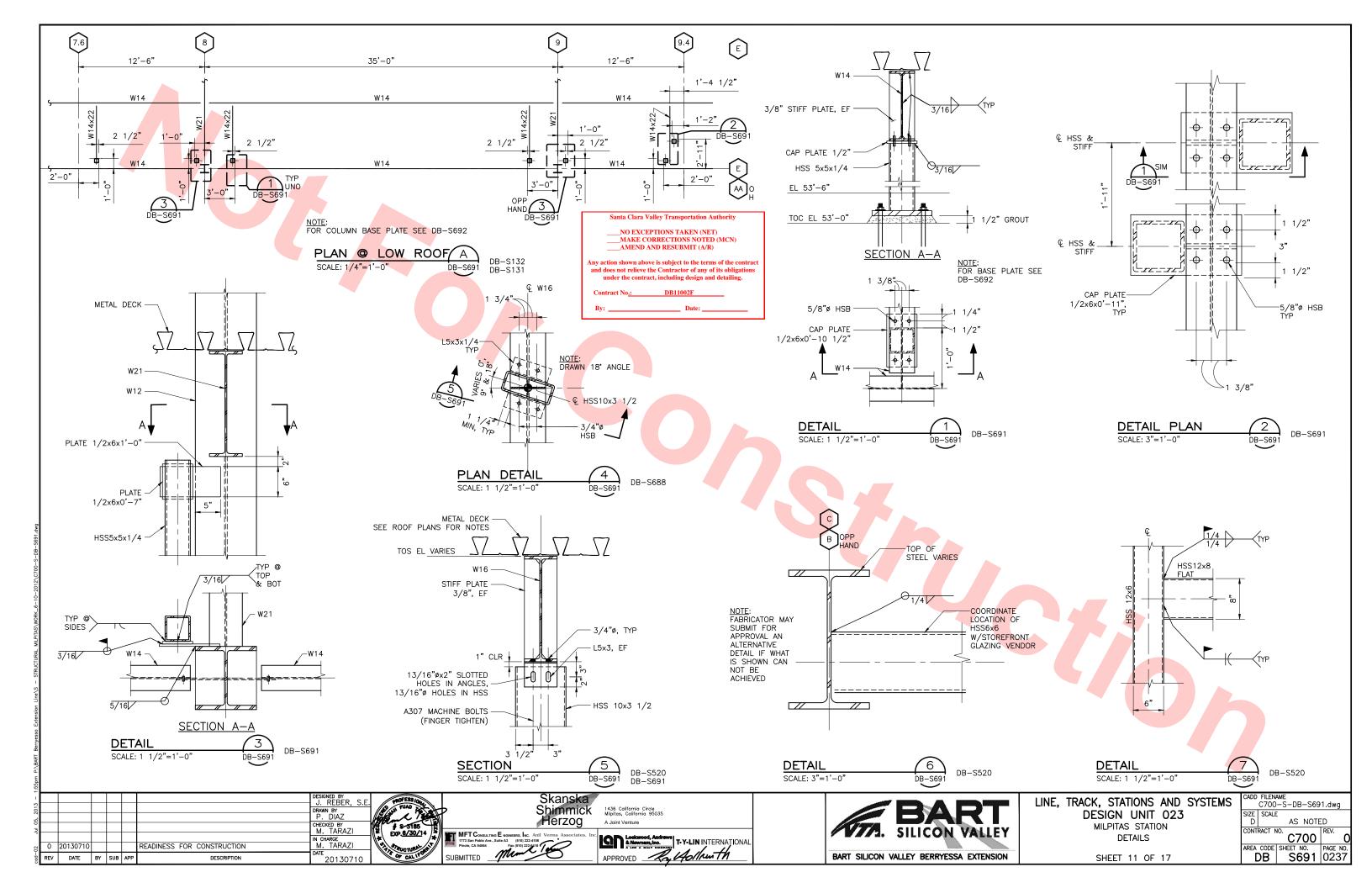


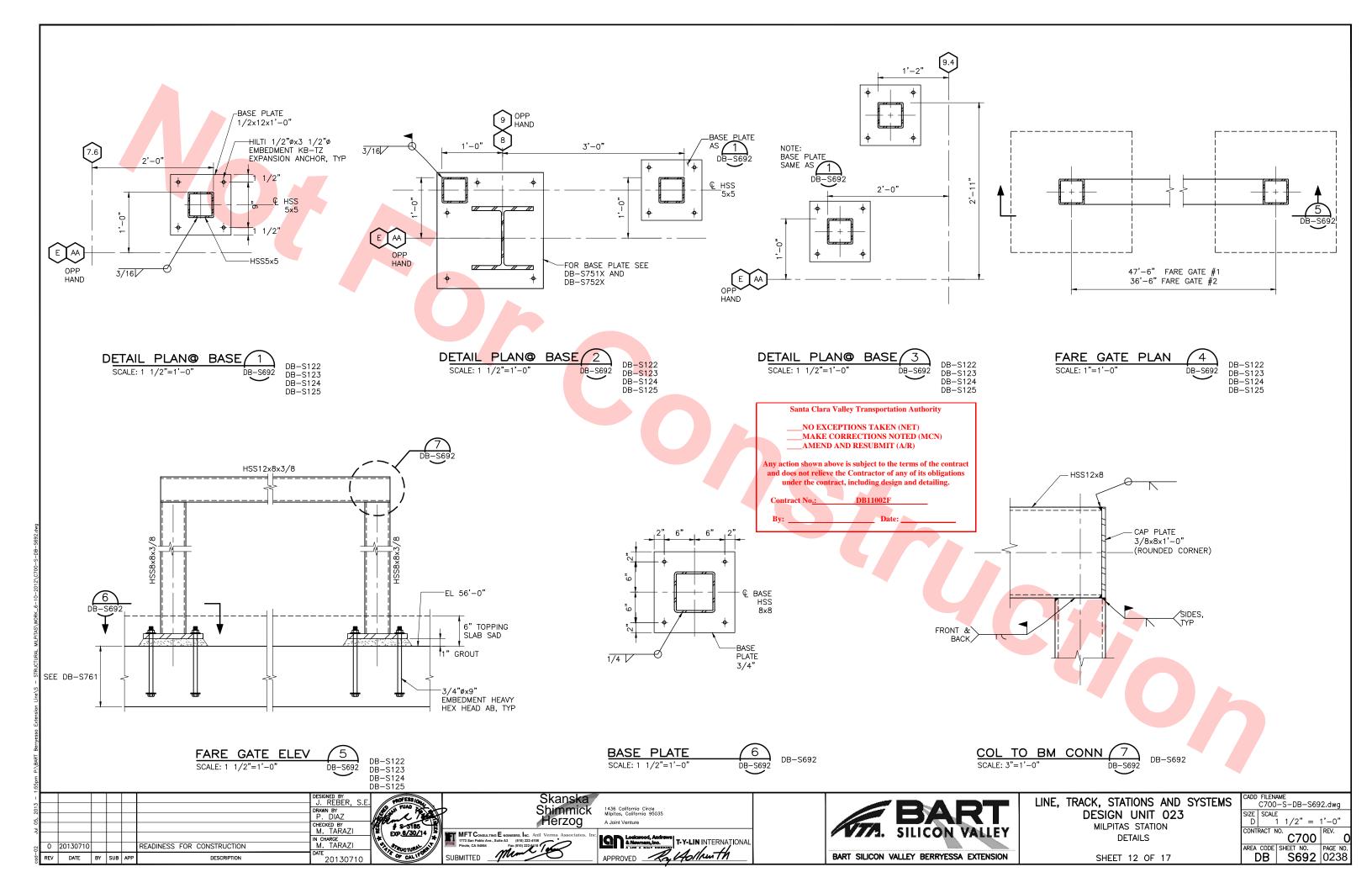


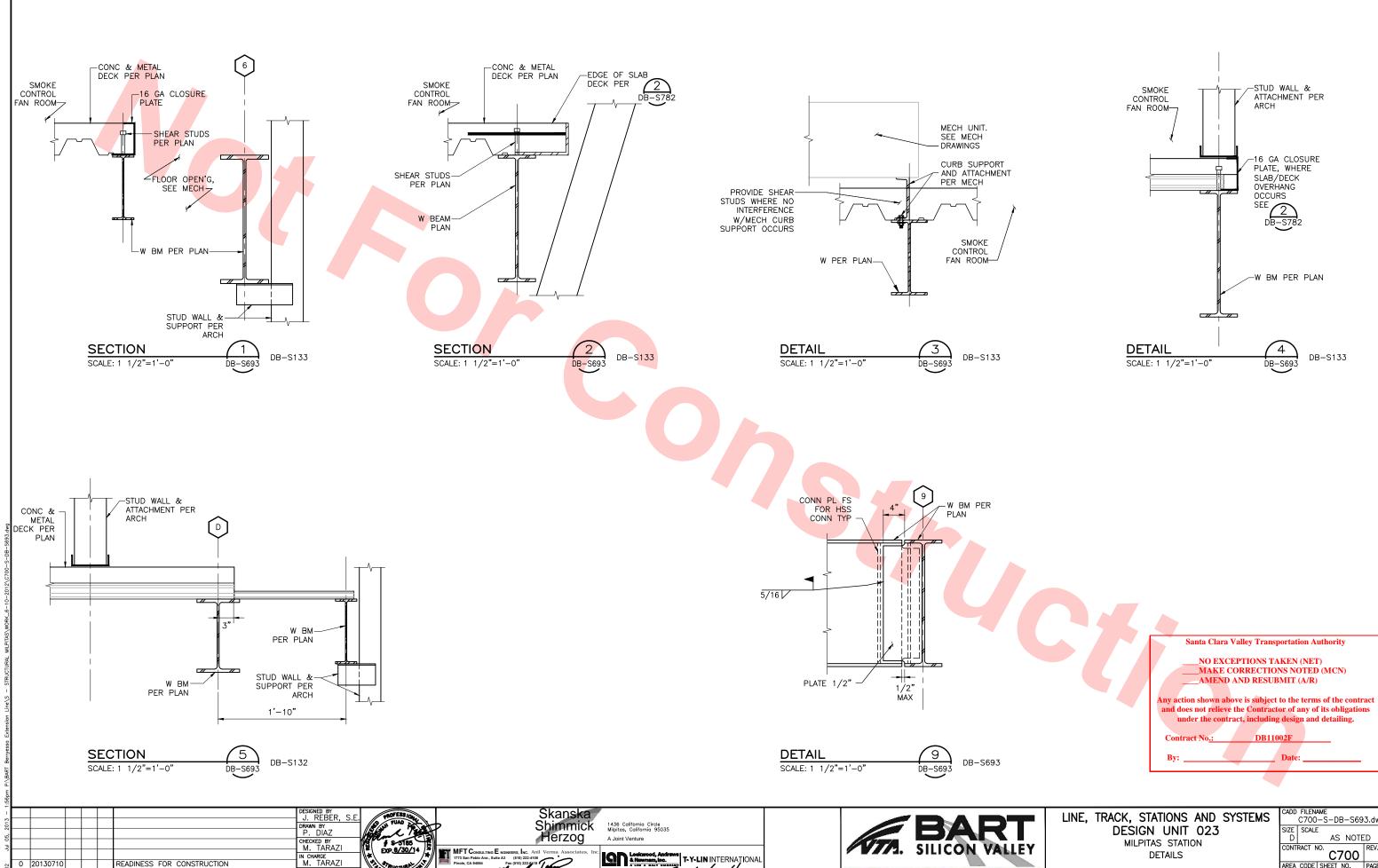












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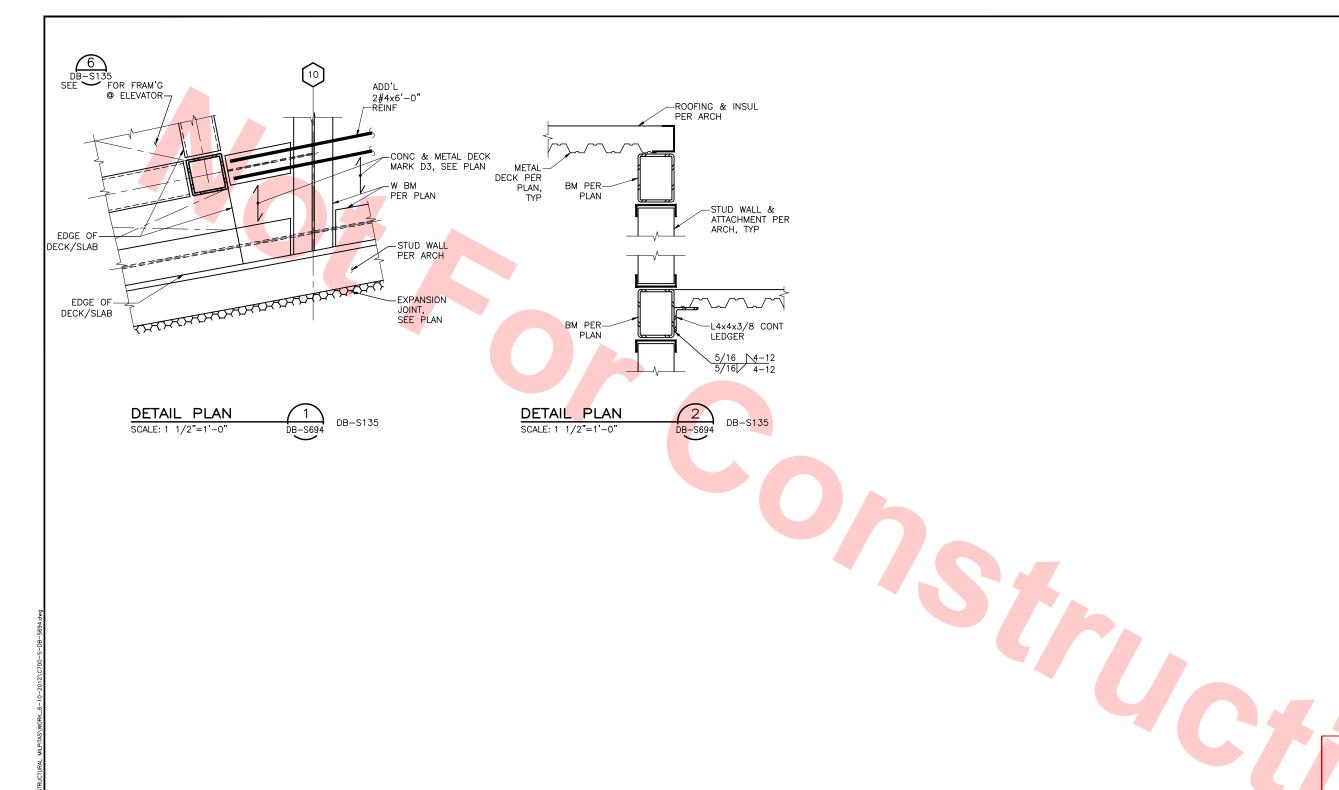
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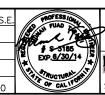
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

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DB11002F

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Skanska Shimmick Herzog MFT CONSULTING E NGINEERS, INC. ANII Vo.
1773 San Pablo Ave., Suite A3 (510) 222-4106
Pinole, CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035 A Joint Venture





LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

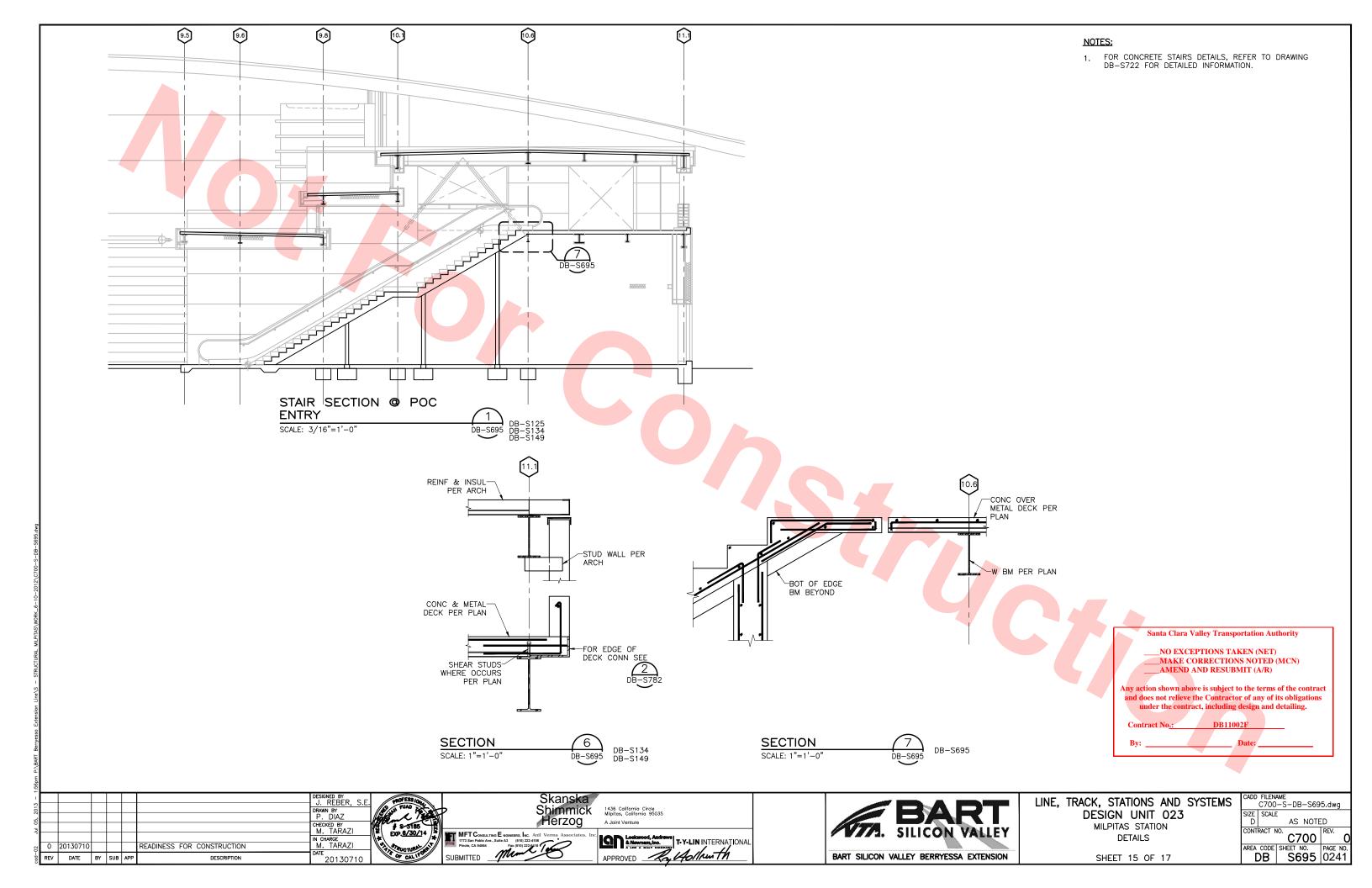
SHEET 14

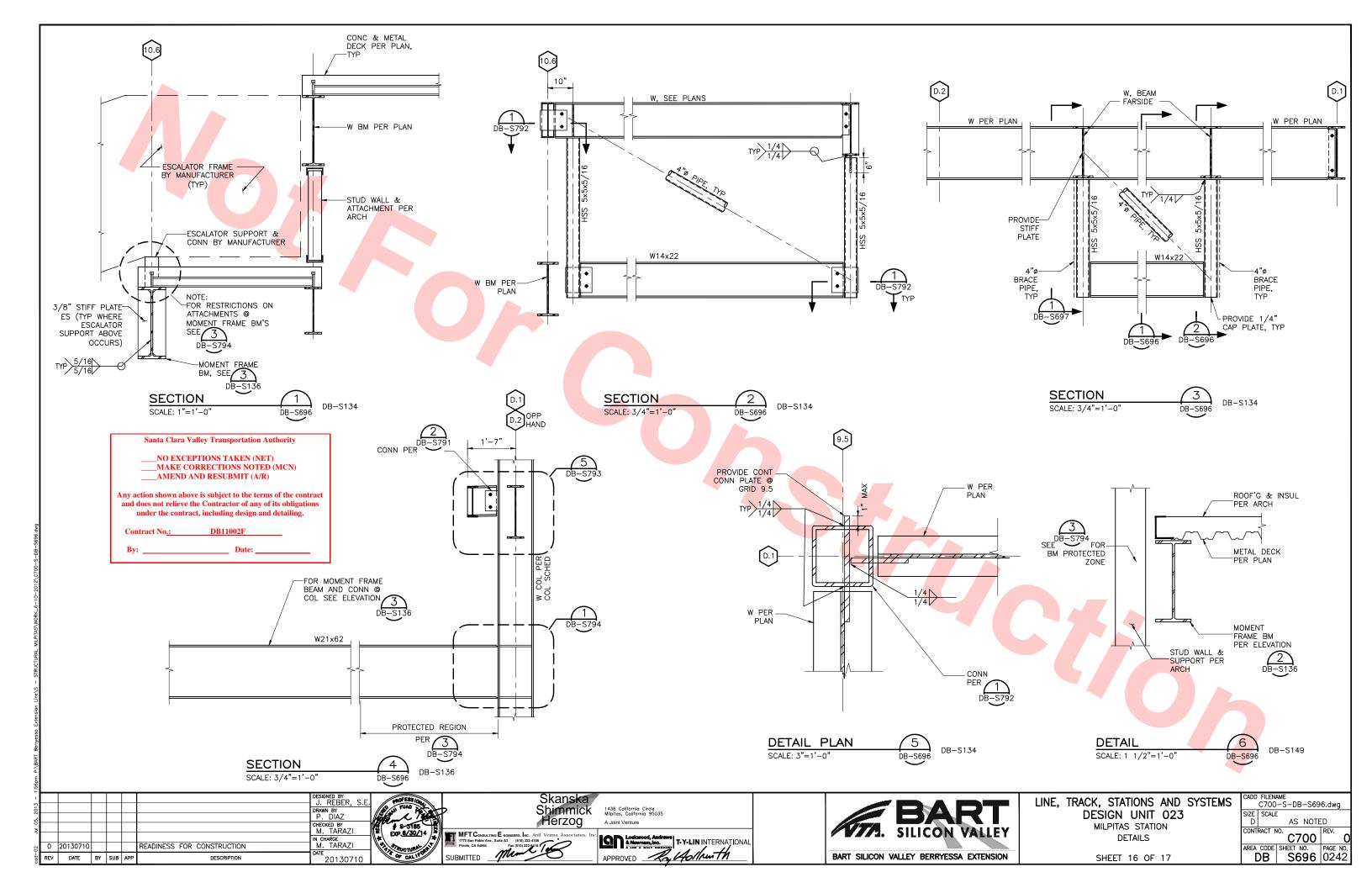
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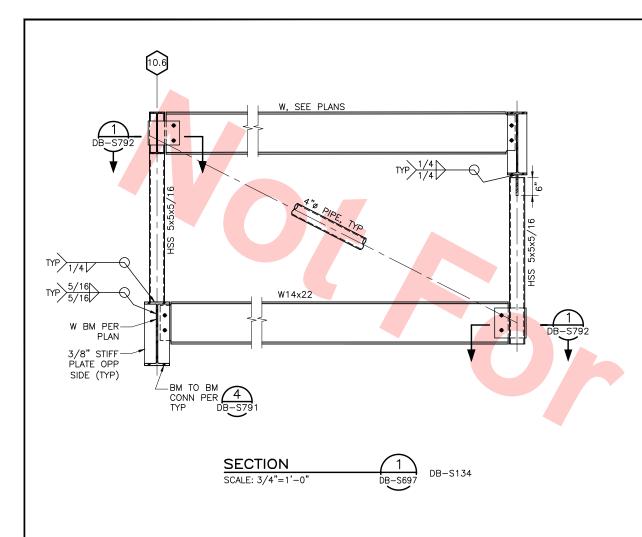
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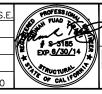


_NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

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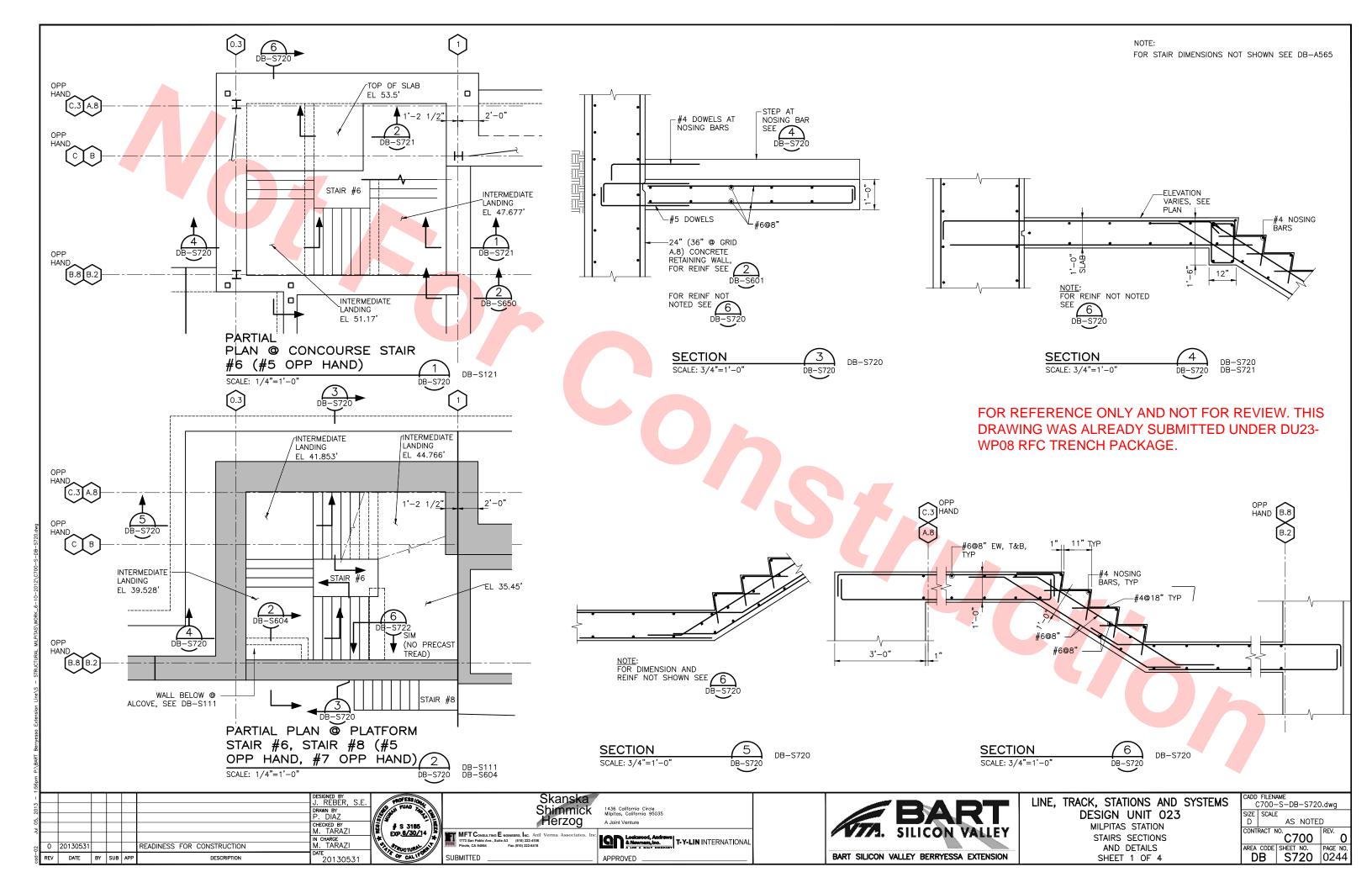


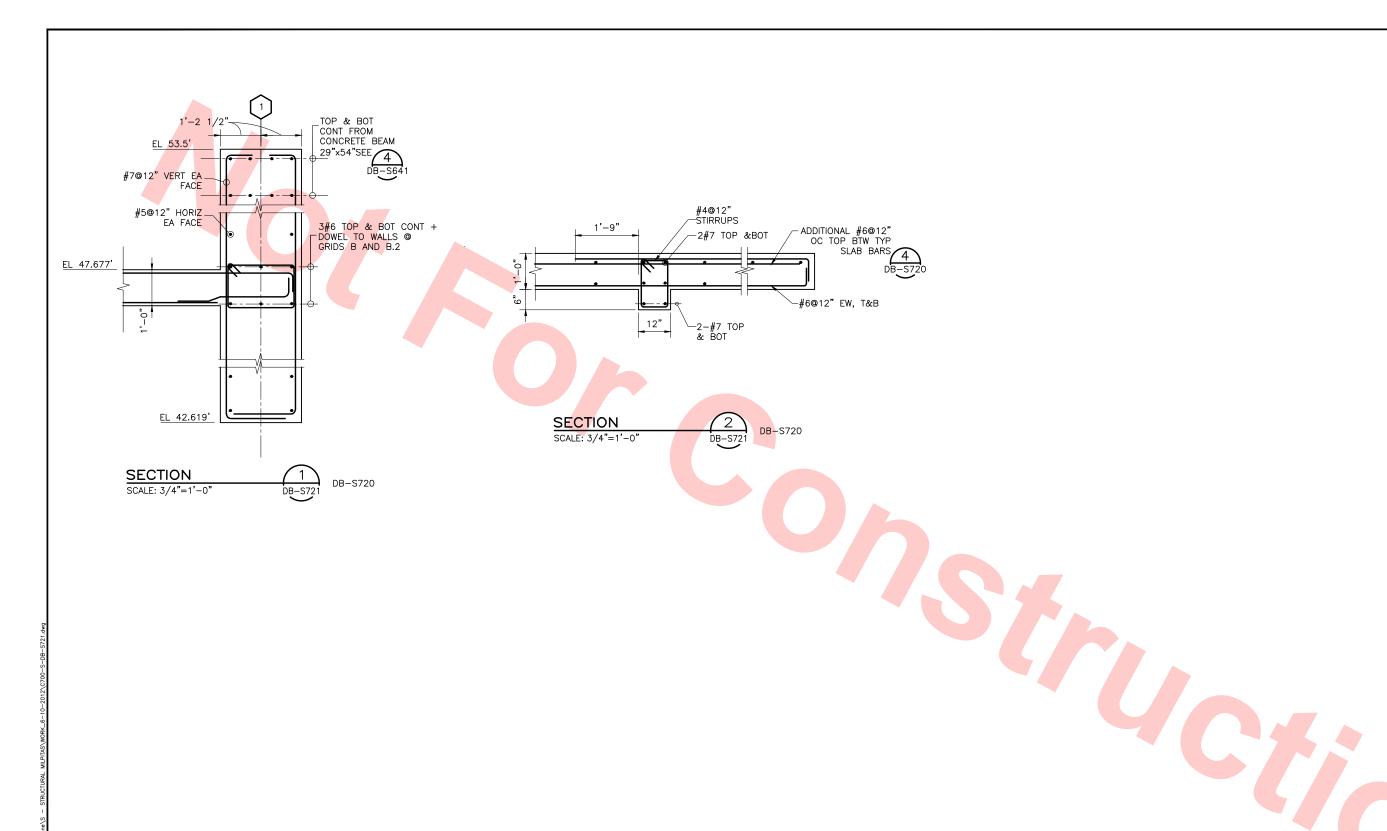
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

DETAILS SHEET 17 OF

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Skanska Shimmick Herzog MFT Consulting E noineers. Inc. Anil Verma Associates, Inc. 177 San Palos Ave., Sulle AJ. (1910) 2224106 Pinio, CA. 940 (1912) 2224106

1436 California Circle Milpitas, California 95035 A Joint Venture





LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

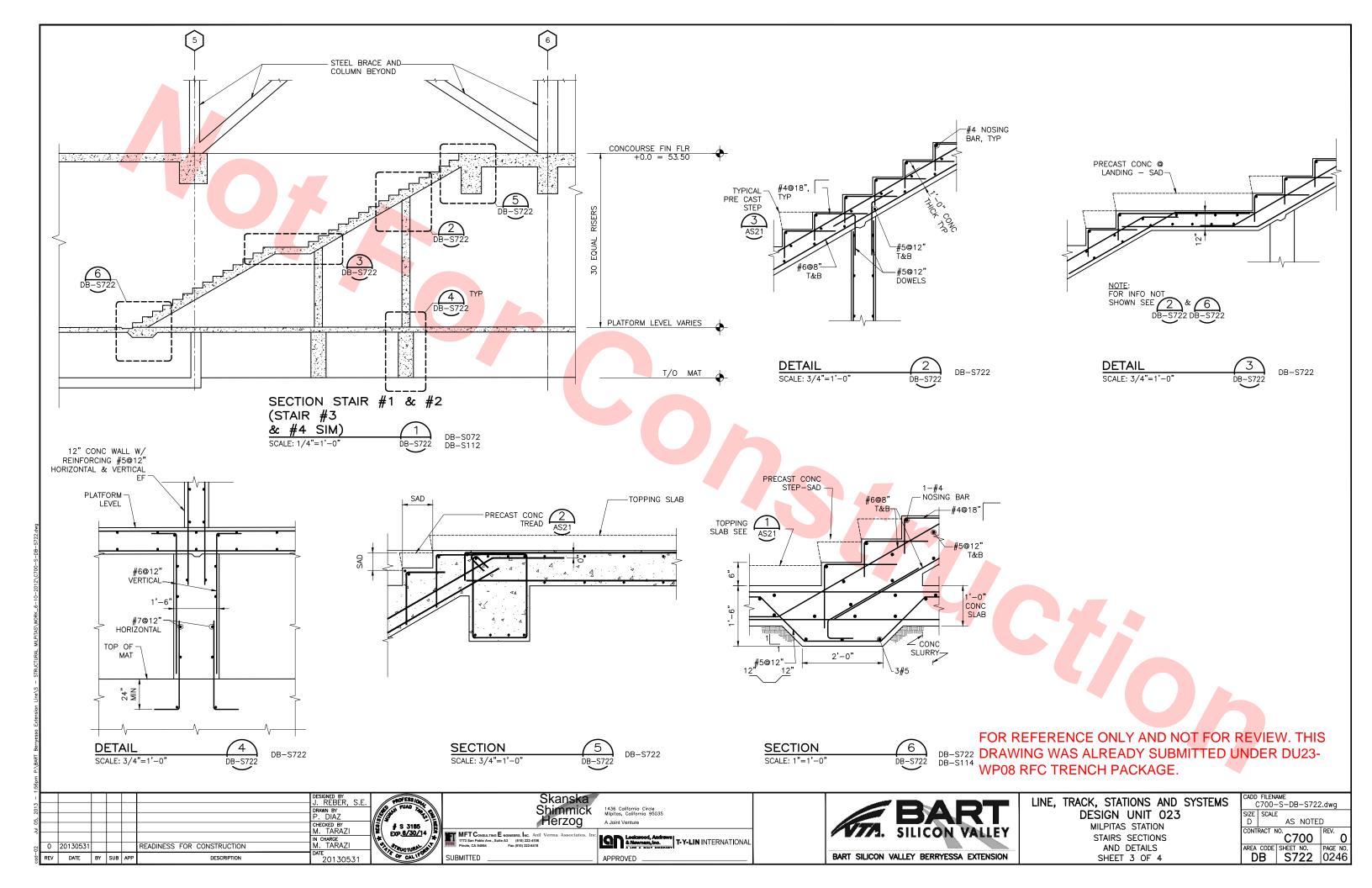
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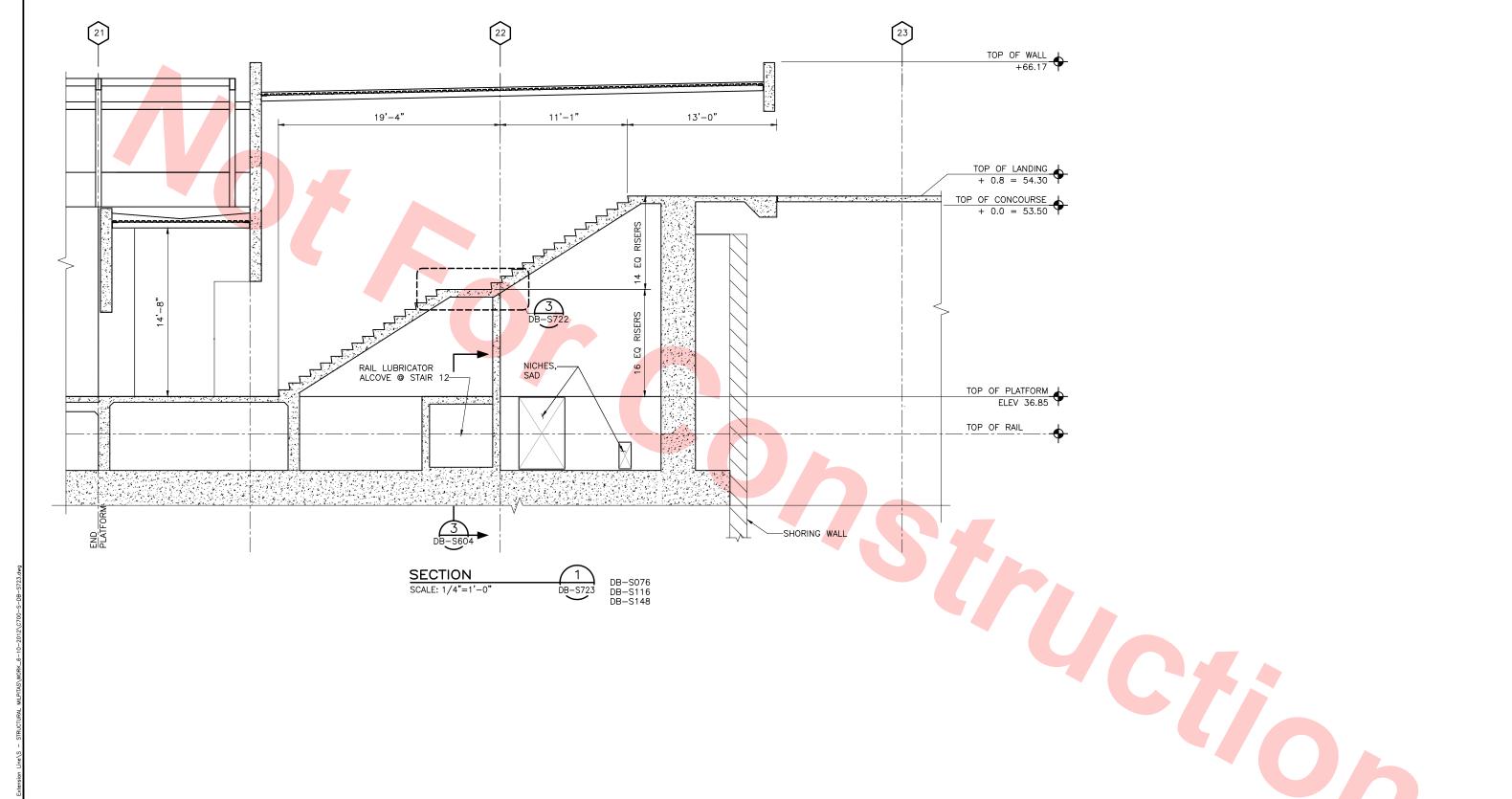
STAIRS SECTIONS

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SHEET 2 OF 4

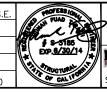
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1436 California Circle
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A Joint Venture

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LINE, TRACK, STATIONS AND SYSTEMS

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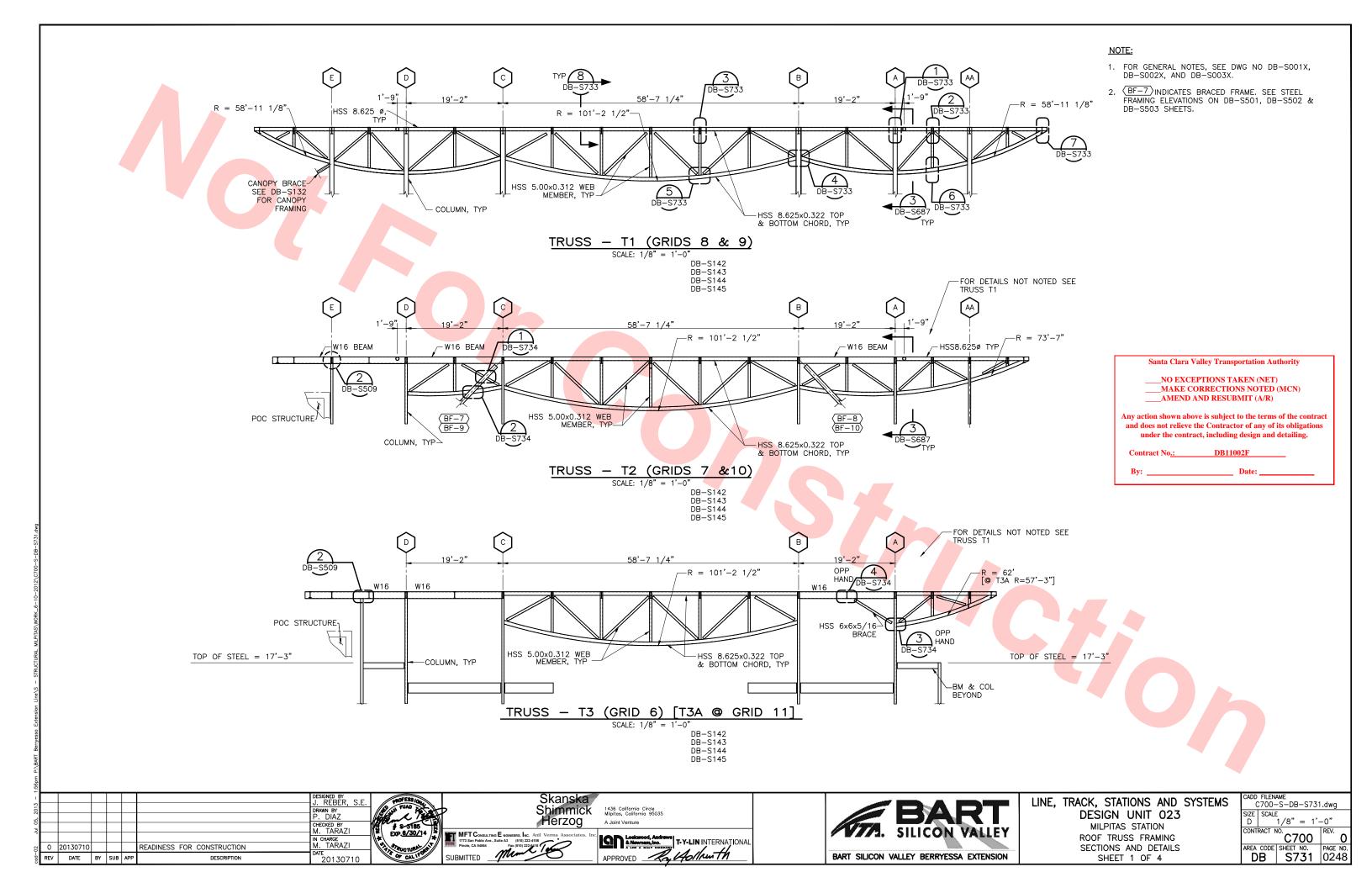
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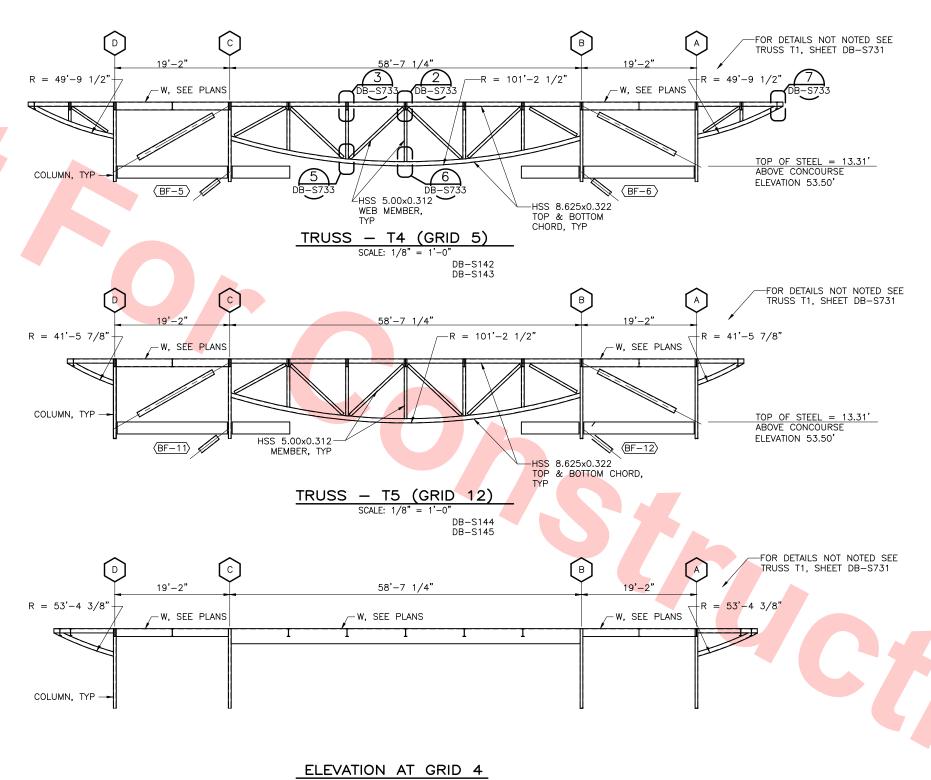
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NOTE:

- FOR GENERAL NOTES, SEE DWG NO DB-S001X, DB-S002X, AND DB-S003X.
- 2. CLOUDED AREAS: DELETED TRUSS MEMBERS AND CHANGED TO WIDE FLANGE BEAMS AS THE TRUSS IS NOT EXPOSED TO THE PUBLIC.
- $\langle \overline{\text{BF-7}} \rangle$ INDICATES BRACED FRAME. SEE STEEL FRAMING ELEVATIONS ON DB-S501, DB-S502 & DB-S503 SHEETS.

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET) ___MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

DB11002F

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

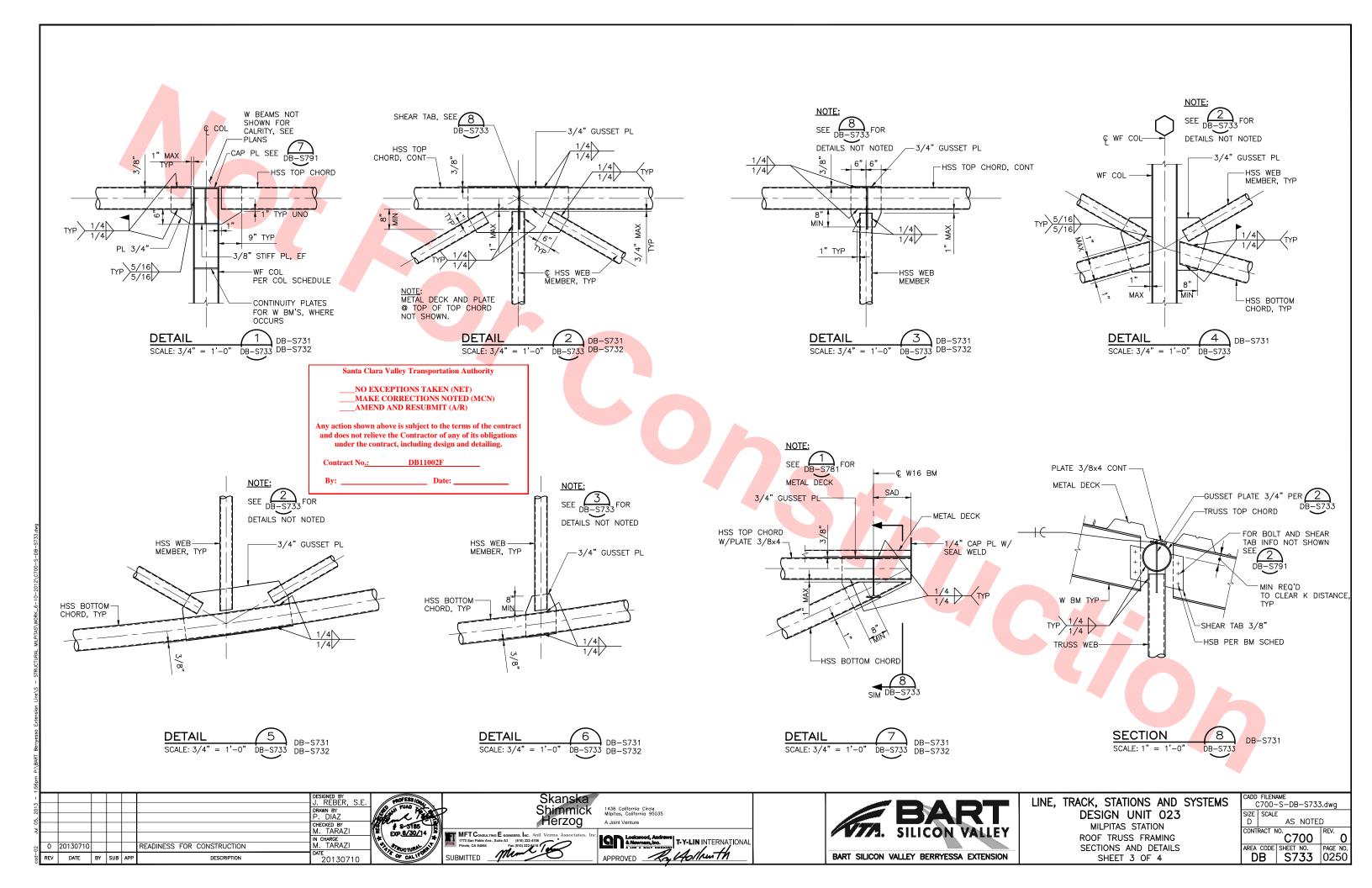
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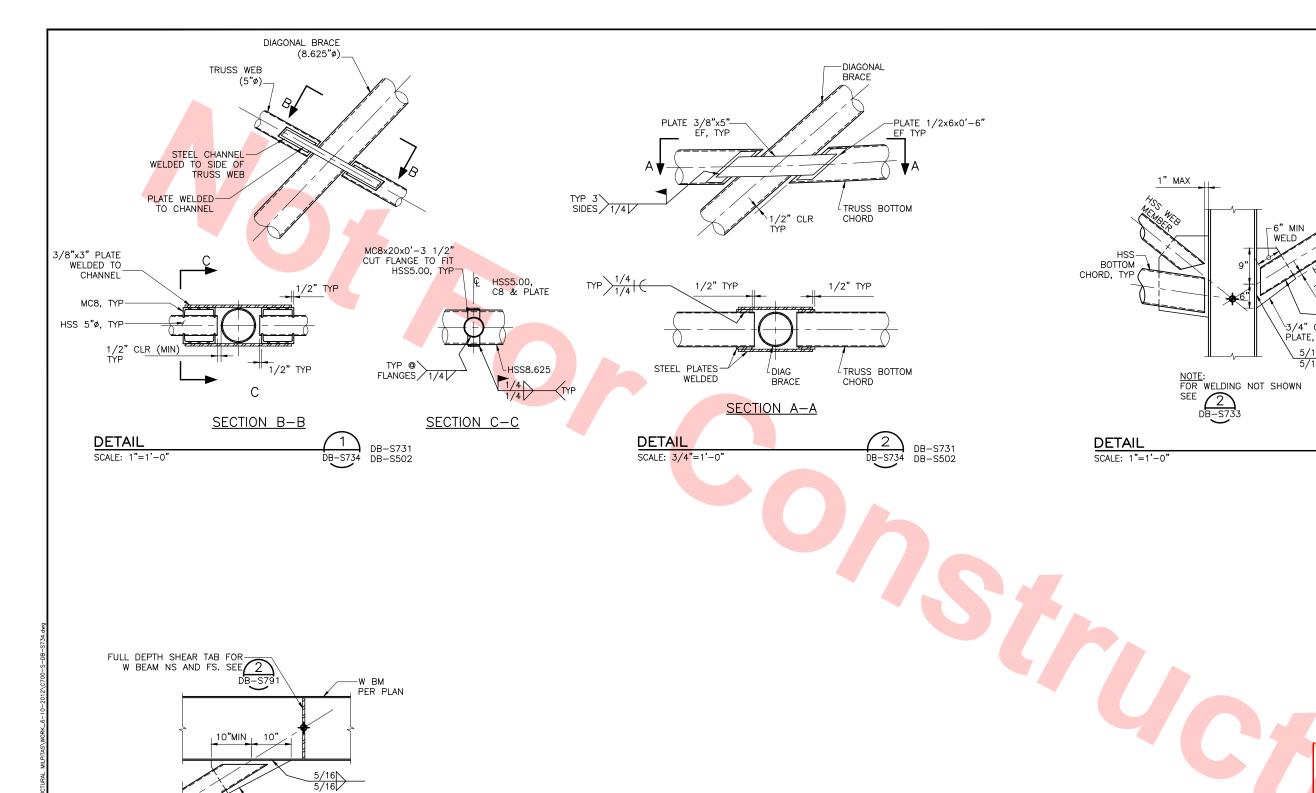


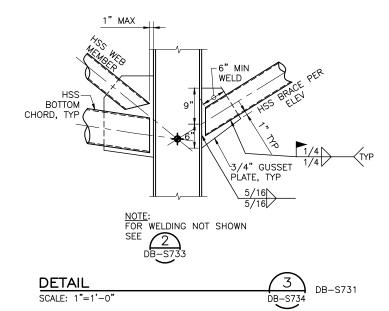
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION

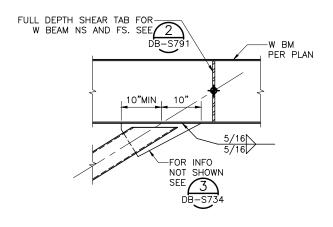
ROOF TRUSS FRAMING SECTIONS AND DETAILS SHEET 2 OF 4

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DETAIL SCALE: 1"=1'-0" Santa Clara Valley Transportation Authority NO EXCEPTIONS TAKEN (NET)

MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R)

ction shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

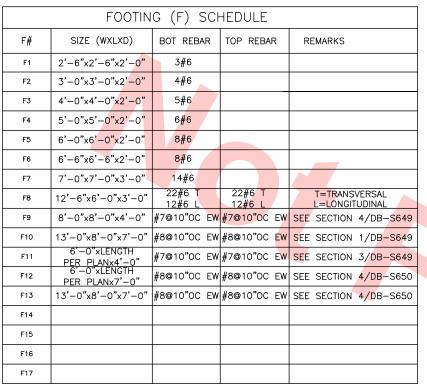
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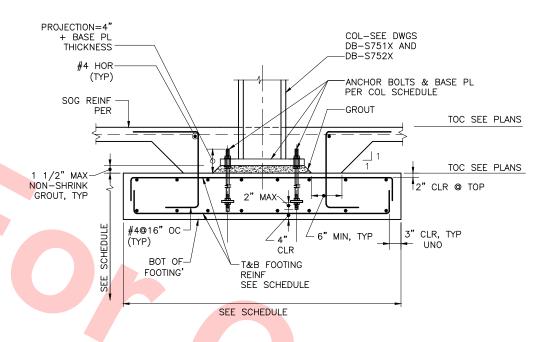


LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION ROOF TRUSS FRAMING SECTIONS AND DETAILS

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NOTE: O(1) = 0 FOR FOOTING PROFILE AT STEEL COLUMN

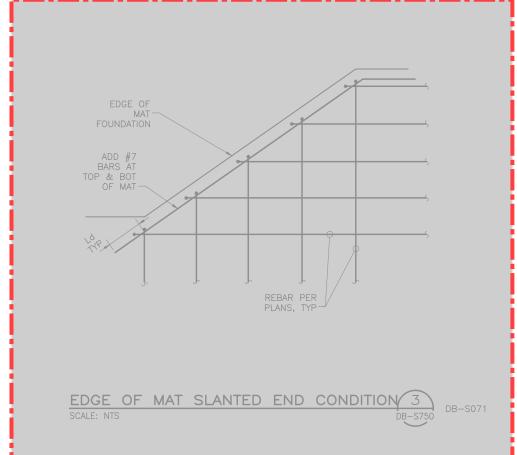
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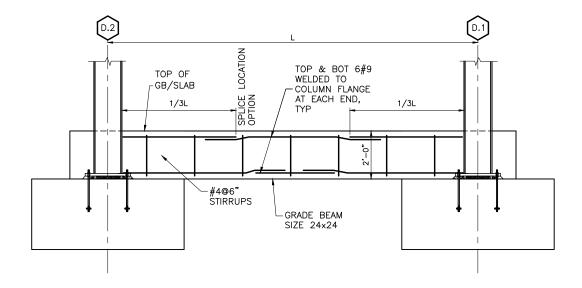
FOOTING SCHEDULE 1

DB-S121

TYPICAL SPREAD FOOTING © ST'L COL. 2
SCALE: NTS

DB-S750





____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

Santa Clara Valley Transportation Authority

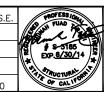
GRADE BEAM ELEVATION
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4 DB-S750 DB-S125 NOTE TO REVIEWER(S):

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1436 California Circle Milpitas, California 95035 A Joint Venture





LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

MILPITAS STATION

FOUNDATION SCHEDULE

AND DETAILS

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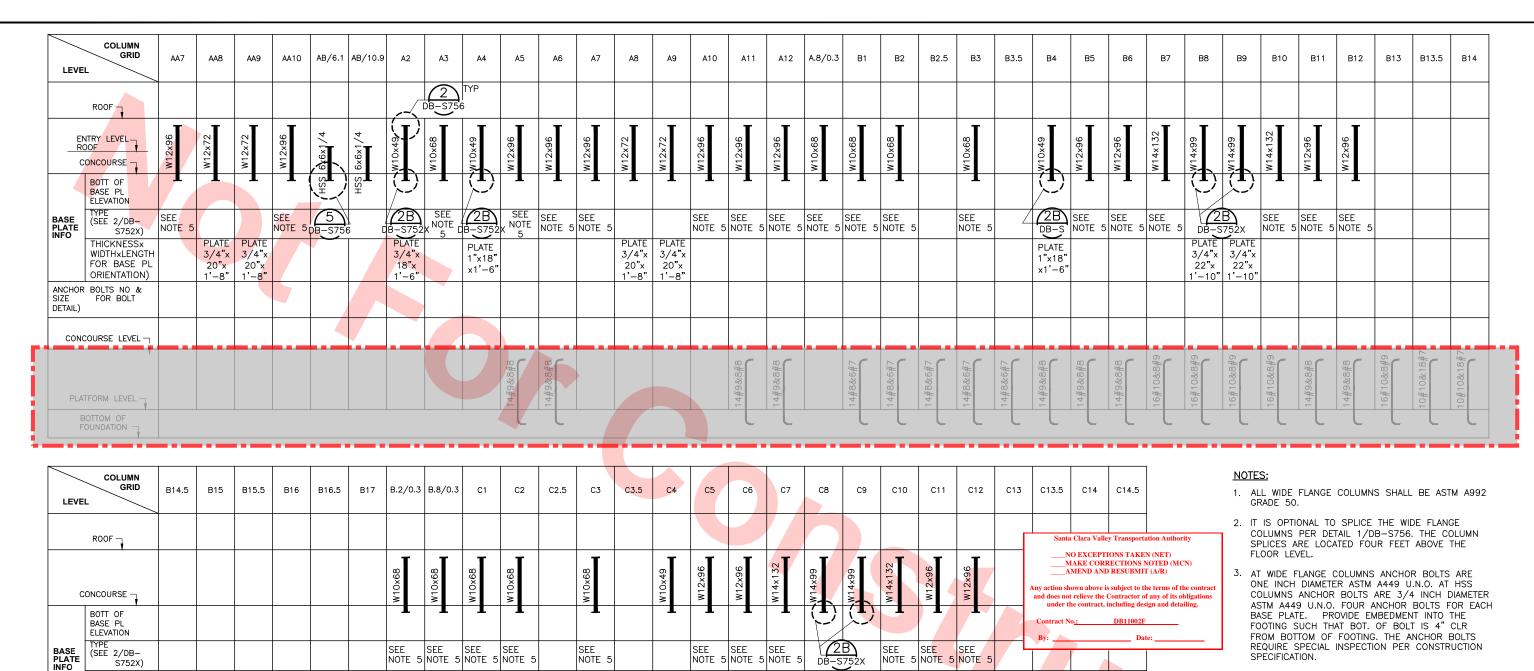


PLATE | PLATE

3/4"x | 3/4">

1'-10" | 1'-10[°]

22"x

22"x

4. ALL BASE PLATE MATERIAL SHALL BE Fy=50 KSI.

FOR BASE PLATE DETAILS AT BRACED FRAMES, SEE BRACED FRAME ELEVATIONS ON DWG DB-S501, DB-S502 & DB-S503.

CONCRETE AND STEEL COLUMN SCHEDULE

DB-S751X

NOTE TO REVIEWER(S): DO NOT REVIEW AREAS DESIGNATED AS

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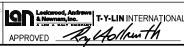
Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Ver 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-9418

Fax (510) 222-6418

1436 California Circle Milpitas, California 95035 A Joint Venture

1"x18

x1'-6





DESIGN UNIT 023 MILPITAS STATION

SCHEDULE AND DETAILS

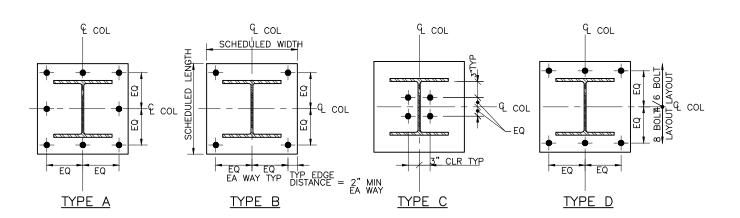
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LINE, TRACK, STATIONS AND SYSTEMS CONCRETE AND STEEL COLUMNS

CONCRETE AND STEEL COLUMN SCHEDULE

SCALE: N.T.S.
DB-S752X



TYP COL PLATES

SCALE: 1"=1'-0"

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
__AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

NOTES:

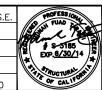
- 1. ALL WIDE FLANGE COLUMNS SHALL BE ASTM A992 GRADE 50.
- 2. IT IS OPTIONAL TO SPLICE THE WIDE FLANGE COLUMNS PER DETAIL 1/DB-S756. THE COLUMN SPLICES ARE LOCATED FOUR FEET ABOVE THE FLOOR LEVEL.
- 3. AT WIDE FLANGE COLUMNS ANCHOR BOLTS ARE ONE INCH DIAMETER ASTM A449 U.N.O. AT HSS COLUMNS ANCHOR BOLTS ARE 3/4 INCH DIAMETER ASTM A449 U.N.O. FOUR ANCHOR BOLTS FOR EACH BASE PLATE. PROVIDE EMBEDMENT INTO THE FOOTING SUCH THAT BOT. OF BOLT IS 3" CLR FROM BOTTOM OF FOOTING. THE ANCHOR BOLTS REQUIRE SPECIAL INSPECTION PER CBC 2010 SECTION 1704.4
- 4. ALL BASE PLATE MATERIAL SHALL BE Fy=50 KSI.
- FOR BASE PLATE DETAILS AT BRACED FRAMES, SEE BRACED FRAME ELEVATIONS ON DB-S501, DB-S502 & DB-S503.
- WHERE INDICATED (*) ON SCHEDULES REFER TO STEEL FRAME ELEVATIONS DB—S136 AND DB—S137 FOR DOUBLER PLATE LOCATIONS.

6. REFER TO DRAWING DB-S755 DETAIL 1
TYPICAL CONCRETE COLUMN ELEVATION

NOTE TO REVIEWER(S): DO NOT REVIEW AREAS DESIGNATED AS



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DB-S751X









LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION

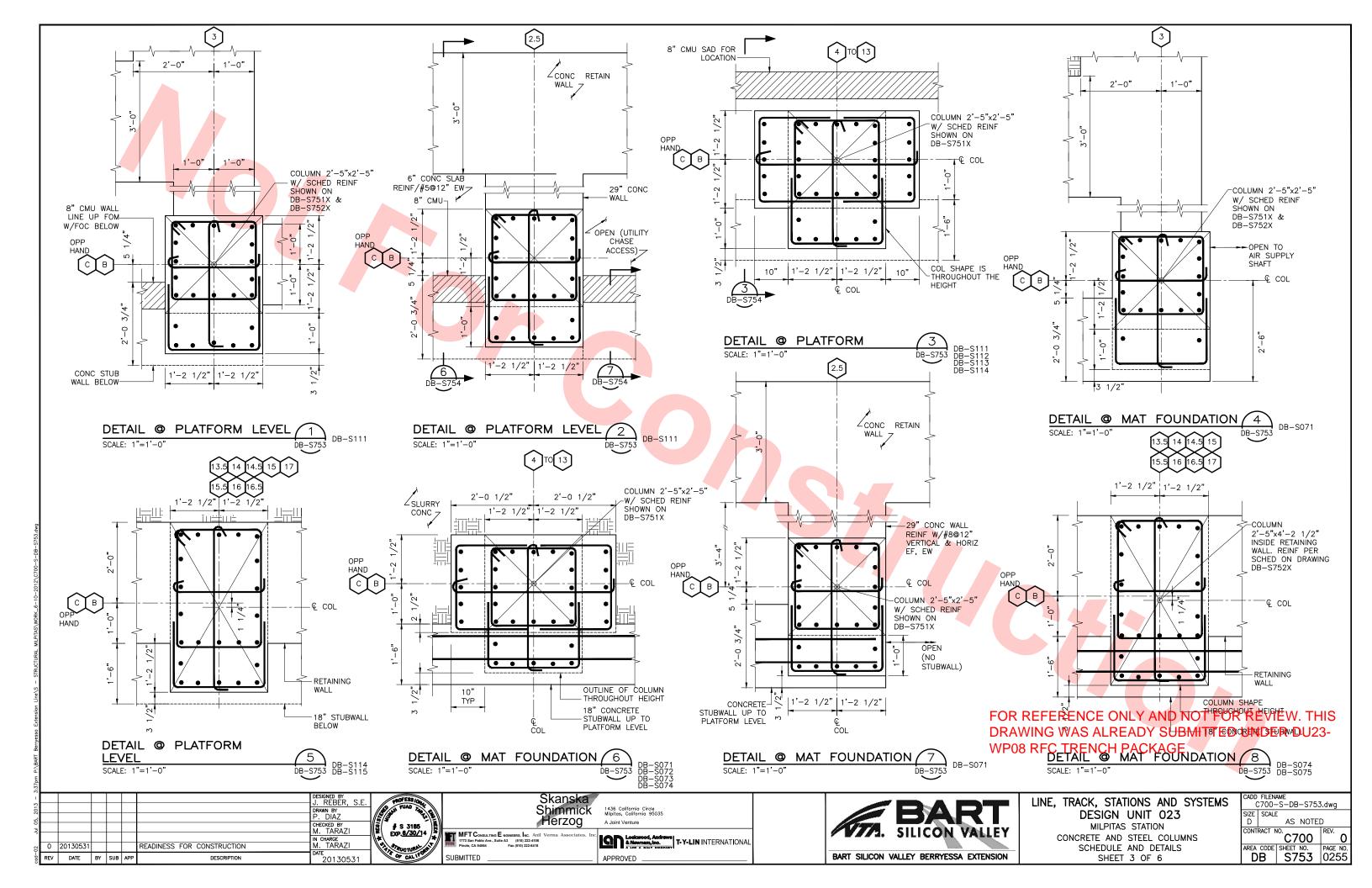
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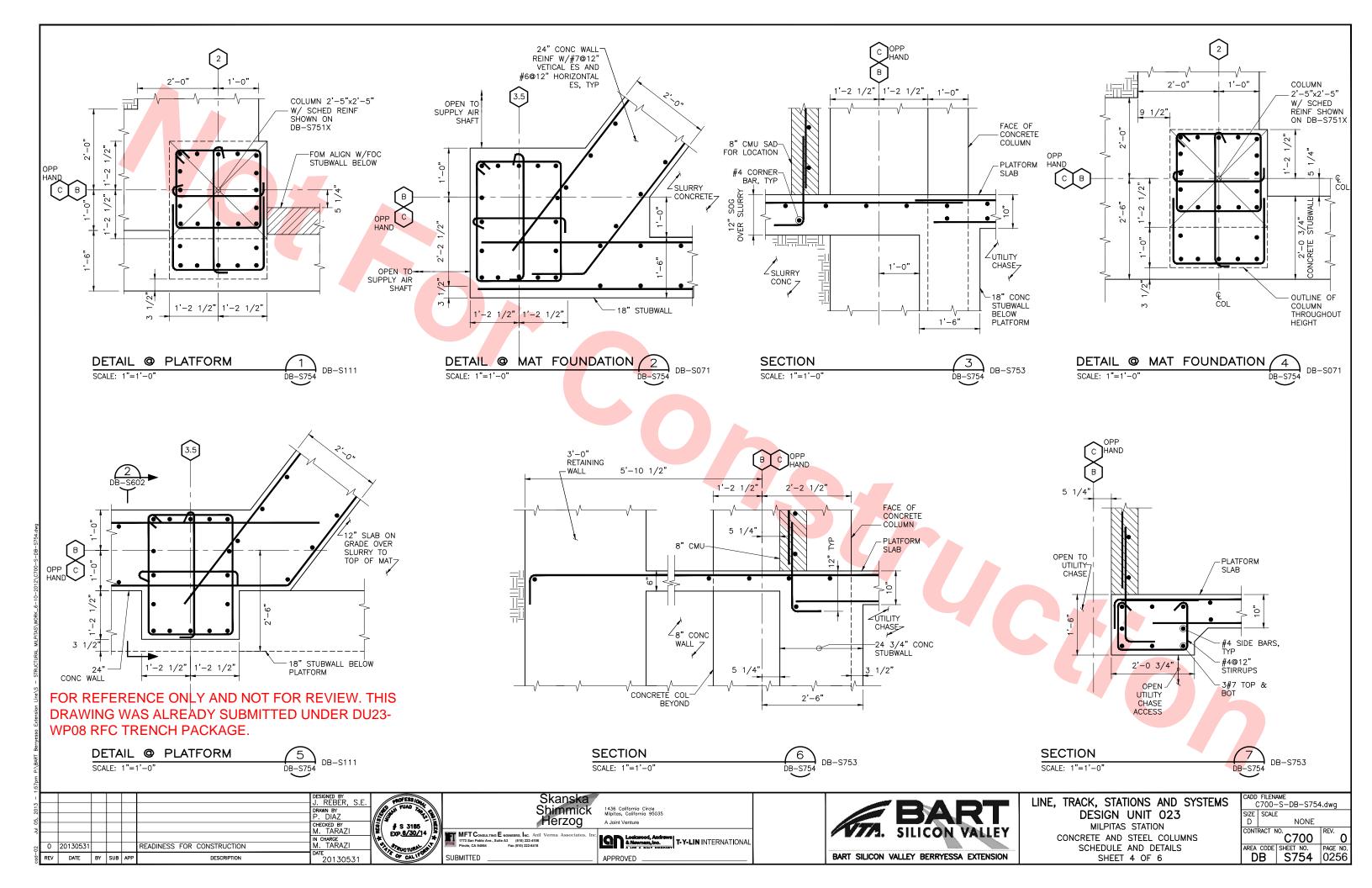
CONCRETE AND STEEL COLUMNS

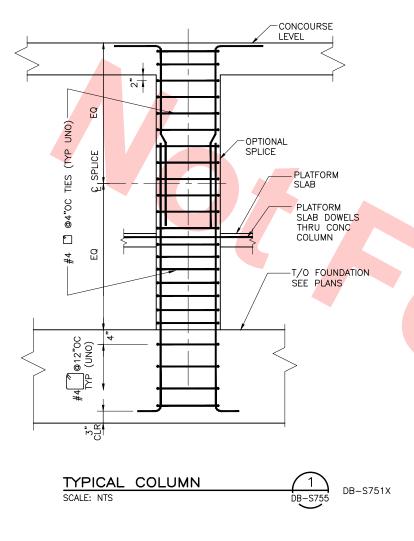
SCHEDULE AND DETAILS

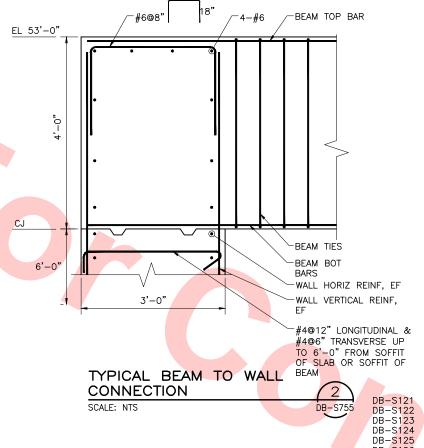
SHEET 2 OF 6

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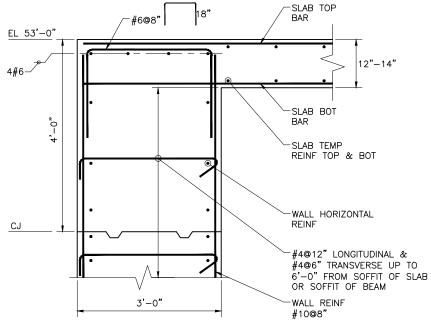


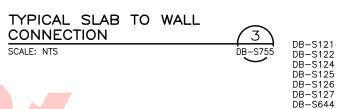


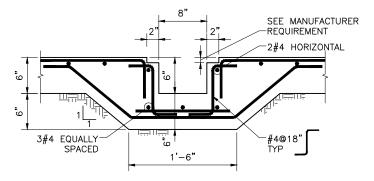




DB-S126 DB-S127







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1							DESIGNED BY J. REBER, S.E.		PROFESS/Qu	Skanska	
2013							DRAWN BY	/ <i>[[</i>	\$ 5.5185 Exp.6/30/14	Shimmick	1436 California Circle Milpitas, California 95035
5,							P. DIAZ	Will	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Herzog	A Joint Venture
130							CHECKED BY M. TARAZI		S-3185 PR)	
							IN CHARGE	\\≠\	\ /*//		Lockwood, Andrews T-Y-LIN INTERNATIONAL
02	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	//3	PUCTURAL	Pinole, CA 94564 Fax (510) 222-6418	A LIO A BALT COMPANY
-poo	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531		OF CALIFORNIA	SUBMITTED FXX (510) 222-14-18	APPROVED Ky Hollrenth



LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

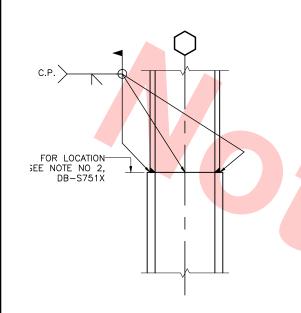
MILPITAS STATION

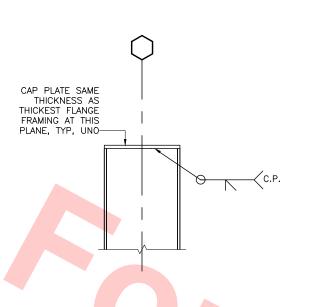
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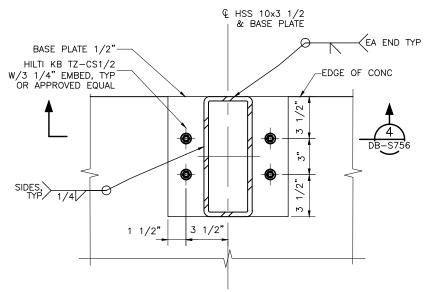
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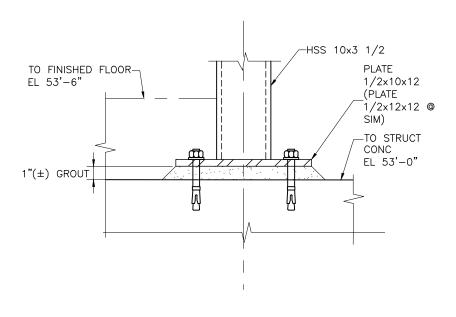
SHEET 5 OF 6

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DB-S751X SCALE: 3/4"=1'-0"

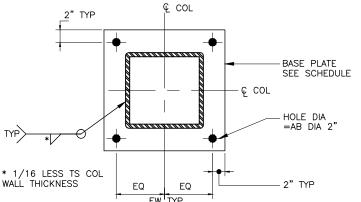


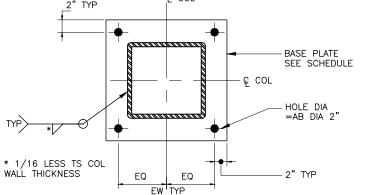
BASE PLATE PLAN DETAIL



DB-S125

SECTION SCALE: 3"=1'-0"







CHECKED BY M. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION REV DATE BY SUB APP 20130710











____MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R) Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing. DB11002F

Santa Clara Valley Transportation Authority NO EXCEPTIONS TAKEN (NET)

LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION

CONCRETE AND STEEL COLUMNS SCHEDULE AND DETAILS SHEET 6 OF 6

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SLAB SCHEDULE

MARK	DIMEN- SIONS	TYPE		RI	EINFORCING			DEMANG
	DEPTH	/ · · · · <u>-</u>	воттом і	BARS	тог	BARS		REMARKS
	(INCHES)		A	B	©	(D)	E	
S1	10	E	#6@6" OC		#6@6" OC			
S2	10	=	#6 @6 " OC		#6@6" OC	#6 @6" OC		
S3	10	E	#6@6" OC		#6@6" OC			WHERE CONTINUES EAST OF GRID B CONTINUE T AND B REINF AND TERMINATE W/ STANDARD HOOK @ "CONC RETAINING WALL BELOW"
S4	14	E	#6@6" OC		#6@6" OC			
S5	14	ı	#6@6" OC		#7 @ 6" OC	#7 @ 6" OC		
S6	14	Е	#7@6" OC		#6@6" OC			BTW GRID 3.5 AND 4 CONTINUE T AND B REINF EAST OF GRID B AND TERMINATE W/ STANDARD HOOK © "CONC WALL BELOW"
S7	14	E	#6@6" OC		#6@6" OC		#6 @6" 00	WHERE CLAR CONTINUES DACT OF AS CONTINUE T. AND D. DEINE AND
S8	14	E	#6@6" OC		#6@6" OC			
S9	10	E	#5@6" OC		#5@6" OC		#6 @ 6" OC	
S10	12	E	#6@6" OC		#6@6" OC			
S11	10	E	#5@6" OC		#5@6" OC			WHERE SLAB CONTINUES PAST CB-20, CONTINUE T+B REINF AND TERMINATE W/ STANDARD HOOK @ BEAM BEYOND
S12	12	ı	#6@6" OC		#6@6" OC	#6 @ 6" OC	;	III STANDARD THOSE OF BUILDING
S13	12	E	#6@6" OC		#6@6" OC			
S14	12	E	#6@6" OC		#6@6" OC			
S15	12	ı	#6@6" OC		#6@6" OC			
S16	12	I	#6@6" OC		#6@6" OC			
S17	12	ı	#6@6" OC		#6@6" OC	#6@6" OC	;	
S18	12	Е	#6@6" OC		#6@6" OC			
S19	12	Е	#6@6" OC		#6@6" OC			
S20	12	ı	#6@6" OC		#6@6" OC			
S21	12	ı	#6@6" OC		#6@6" OC			
S22	12	I	#6@6" OC		#6@6" OC	#6 @ 6" OC	;	
S23	12	E	#6@6" OC		#6@6" OC			
S24	12	E	#5@6" OC		#5@6" OC		#5@6" OC	EXTEND "A" AND "E" BARS TO BM SUPPORT BEYOND
S25	12	Е	#6@10" O		#6 @ 10" 00	;		
S26	12	Е	#6@10" O		#6@10" OC	;		
S27	12	E	#6@10" O		#6@10" OC	;		USE # 4 @ 12" OC LONGITUDINAL TOP & # 7 @ 8" OC LONGITUDINAL BOTTOM IN LIEU OF REINF SPECIFIED IN NOTE 3 ON DB-S762. SEE 1/DB-S763 FOR REINF CONFIG.
S28	12	I	#6@10" O		#6@10" 00	;		REINF SPECIFIED IN NOTE 3 ON DB-S762. SEE 1/DB-S763 FOR REINF CONFIG.
S29	12	ı	#6@10" O		#6@10" 00	;		1
S30	12	E	#6@10" O		#6@10" 00	;		
			//F@C"		// C @ C "	#F@C"		SEE NOTE 2
S100	10	S	#5@6"o.c.		#5@6"o.c.	#3@0 o.c.		
S600	27	S	#10@6"o.c	•	#8@6"o.c.			USE # 8 @ 12" TOP AND BOTTOM IN LIEU OF REINF SPECIFIED IN NOTE 3 ON DB-S762
	1							

NOTES

- 1. SEE DRAWING DB-S762 FOR REINFORCEMENT LOCATION FOR SLAB TYPES
- EXTEND BARS MARKED "A" AND "C" INTO CANTILEVER PORTION OF SLAB SIMILAR TO DETAIL 4/DB-S762.

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,							DESIGNED BY J. REBER, S.E.
5							DRAWN BY
:							P. DIAZ
5							CHECKED BY M. TARAZI
							IN CHARGE
4	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI
3	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531



Skanska Shimmick Herzog MFT Consulting E. Hornesers, Inc. Anill Verma Associates, Inc. 1707 San Pablo Ava., Suife A3 (810) 2224418

1436 California Circle Milpitas, California 95035 A Joint Venture

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LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

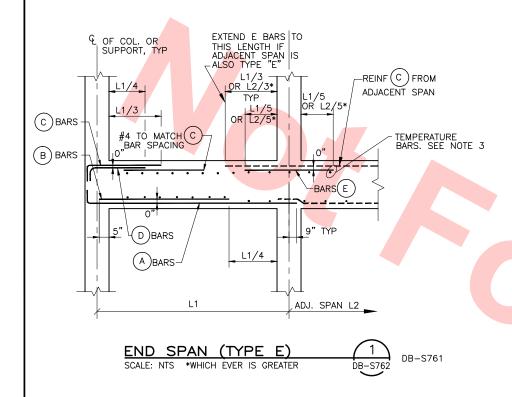
MILPITAS STATION

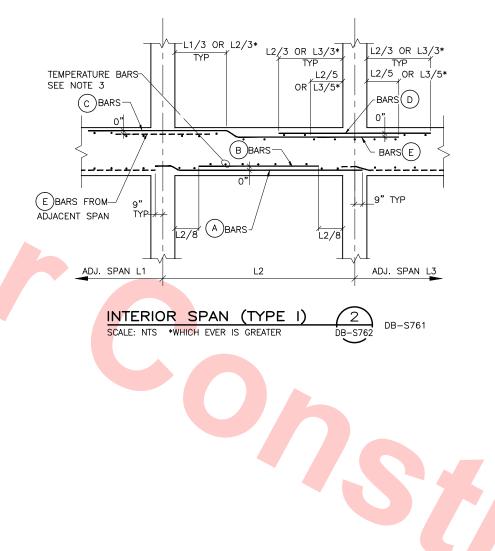
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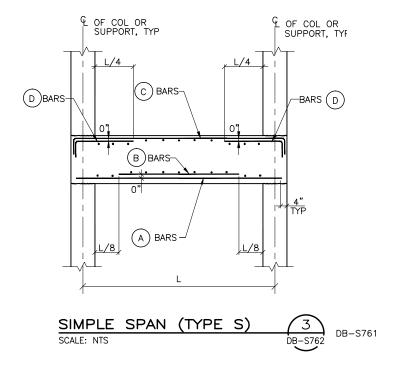
SCHEDULE AND DETAILS

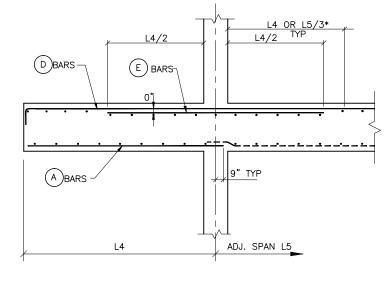
SHEET 1 OF 3

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NOTES:

- SLABS ARE MARKED ON THE FRAMING PLANS THUS. ___S1_ ETC. FOR ONE—WAY SLABS. TO INDICATE THE DIRECTION OF THE MAIN REINFORCING.
- SEE PLANS FOR SLAB ORIENTATION, END SPAN AND CANTILEVER CONDITIONS MAY BE OPPOSITE HAND WITHOUT SO BEING NOTED.
- WHERE ONE WAY SLAB ARE SHOWN, UNLESS OTHERWISE NOTED, IN SCHEDULE PROVIDE TEMPERATURE BARS PERPENDICULAR TO SCHEDULE REINFORCEMENT THUS:

6" THICK SLABS - #4 @ 16" OC 8" THICK SLABS - #4 @ 16" OC T&B 10" THICK SLABS - #4 @ 16" OC T&B 12" THICK SLABS - #4 @ 16" OC T&B 14" THICK SLABS - #4 @ 12" OC T&B

> SLAB REINFORCEMENT **NOTES** SCALE: N.T.S.



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						DESIGNED BY J. REBER, S.E.	PROFESS EQ FUAD
						DRAWN BY P. DIAZ	Salar Ford
						CHECKED BY M. TARAZI	S 31 EXP.6/3
0	20130531				READINESS FOR CONSTRUCTION	IN CHARGE M. TARAZI	1 S.
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531	OF CA



SURMITTED

Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035



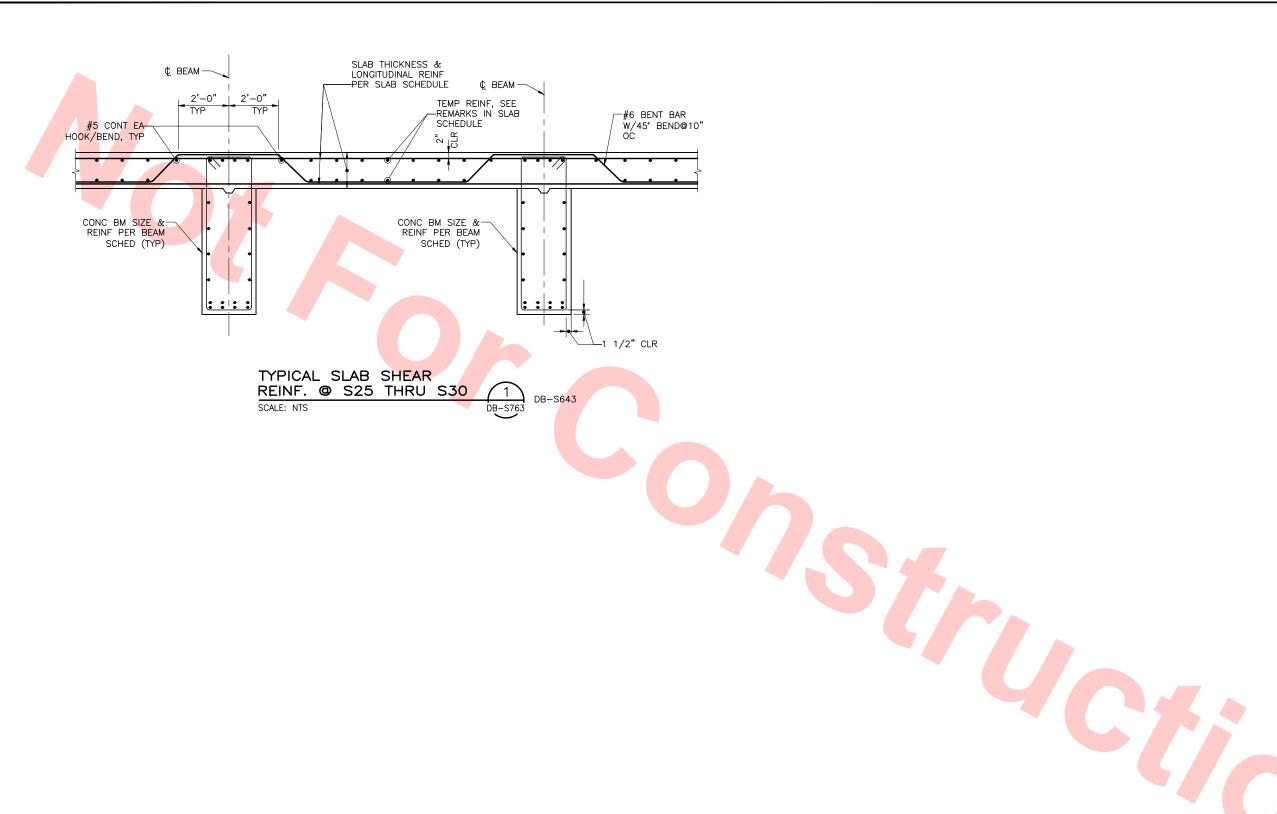


LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONCRETE SLAB

SCHEDULE AND DETAILS

SHEET 2 OF 3

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| DESIGNED BY | J. REBER, S.E. | DRAWN BY | P. DIAZ | CHECKED BY | M. TARAZI | IN CHARGE | M. TARAZI | N. CHARGE | M. TARAZI | N. CHARGE | M. TARAZI | DATE | BY SUB APP | DESCRIPTION | DATE | BY SUB APP | DESCRIPTION | DATE |



SUBMITTED

Skanska Shimmick Herzog MFT Consulting E noineers, Inc. Anil Verma Associates, Inc. 1773 San Palio Ave., Suife A3 (810) 2224106 Princk, Ca 98 (1610) 2224410

1436 California Circle Milpitas, California 95035 A Joint Venture

Lockwood, Andrews

A Novembra Brown

T-Y-LIN INTERNATIONAL

APPROVED



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONCRETE SLAB

SCHEDULE AND DETAILS

SHEET 3 OF 3

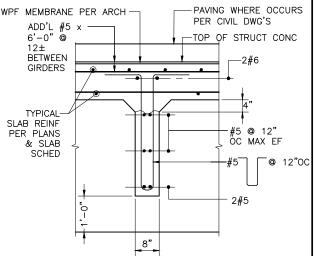
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CONCRETE BEAM SCHEDULE CONCOURSE LEVEL

	DIMEN	ISIONS			REI	NFORCING	G			ST	IRRUPS				2. SEE 7/DB-S7 SIDE BARS. 3. SEE DRAWING BEAM SCHEDU
MARK	WIDTH	DEPTH	TYPE	воттом і	BARS	то	OP BARS		(SEE NOTE 2) SIDE	SIZE & TYPE	:	SPACING		REMARKS	
				A	В	©	D	E	BARS E.F.		G1	G2	В		WPF MEMBRANE F
CB1	29	VARIES	S	7#9	4#9	7#9	4#9			4A			16"	ARCH BEAM. SEE B/DB-S768 FOR REINF LOCATION	6'-0" @ 12±
															BETWEEN GIRDERS
CB2	29	24	Е	5#8		5#8		5#8		4A			10"	"E" BARS OCCUR @ GRID 2.5.	1 L
CB3	18	40	Е	4#9		4#8		2#8		4A	8@6"		10"	LOCATE "E" BARS IN 2ND LAYER.	TYPICAL—SLAB REINF
CB4	18	40	I	4#8		4#9		2#8		4A	8@6"		10"	LOCATE "E" BARS IN 2ND LAYER.	PER PLANS & SLAB
CB5	18	40	I	4#8		4#9	4#9	2#8		4A	12@6"		10"	LOCATE "E" BARS IN 2ND LAYER.	SCHED
CB6	18	40	I	4#8			4#9	2#8		4A	12@6"		10"	LOCATE "E" BARS IN 2ND LAYER/EXTEND "A", "D", & "E" BARS PAST GRID 4 TO END OF BEAM & TERMINATE W/STANDARD HOOK, STIRRUPS SOUTH OF GRID 4 TO BF #4, TYPF A @ 6" OC]
														TION SHANN SOUTH OF SIND THE BE #1, THE A S S	1
CB7	29	54	S	6#9	6#9	6#11	6#11			4B	22@6"		12"	LOCATE "B" & "D" BARS IN 2ND LAYER. EXTEND "A", "C", & "D" BARS TO END OF BEAM AT GRIDS A.8 & C.3 & TERMINATE WITH STANDARD HOOK, USE TYPE D STIRRUPS WITH 6" SPACING BETWEEN GRIDS A.8 & B. C.3 & C.	-
CB8	29	VARIES	S	7#9	7#9	7#9	7#9			4A	14@6"		10"	ARCH BEAM. SEE B/DB-S768 FOR REINF LOCATION	
CB9	29	48	S	7#9	7#9	7#10	7#10			4D	12@8"	12@12"	12"		1
															<u>c</u>
:B10	29	48													SECTION
:B11	29	VARIES												ARCH BEAM. SEE A/DB-S769 FOR REINFORCEMENT SIZE & LOCATION.	SCALE: 3/4"=1'-
B12	29	48													
															1
B13	29	VARIES	Е	5#8		5#8				4A			16"	ARCH BEAM. SEE A/DB-S774 FOR REINFORCEMENT LOCATION	1
B14	29	VARIES	I	5#9			5#9			4A			12"	ARCH BEAM. SEE A/DB-S774 FOR REINFORCEMENT LOCATION	1
B15	29	VARIES	I	5#9			6#10	6#10		4A			12"	ARCH BEAM. SEE A/DB-S774 FOR REINFORCEMENT LOCATION. LOCATE "E" BARS IN 2ND LAYER.	
B16	29	VARIES	I	6#14	6#14	6#14	6#14	6#9		5C	16@6"		12"	ARCH BEAM. SEE A/DB-S774 FOR REINFORCEMENT LOCATION. LOCATE "B" AND "E" BARS IN 2ND LAYER. AT G1 AND G2 SPACING USE TYPE C STIRRUPS.	1
B17	29	VARIES	Е	5#8		6#9				4C			6"	CITACING GOL THE GOMMAN G.	
															1
B18	22	36	Е	5#9	2#9	4#9		2#9		4A			10"	LOCATE "B" & "E" BARS IN 2ND LAYER.	1
B19	22	36	I	4#8		4#9	4#9	2#9		4A			10"	LOCATE "E" BARS IN 2ND LAYER.	1
CB20	22	36	Е	5#9	2#9	4#9				4A			10"	LOCATE "B" BARS IN 2ND LAYER.	
CB21	24	42	I	5#10	2#10	5#8	5#11	2#11		4A	28@6"		16"	LOCATE "B" & "E" BARS IN 2ND LAYER. EXTEND "A" & "C" BARS PAST GRID 7 TO END OF BEAM & TERMINATE W/STANDARD HOOKS. AT G1 SPACING USE TYPE B STIRRUPS. STIRRUPS NORTH OF GRID 7 TO BE TYPE 4A@12" OC	
CB22	24	42	I	5#9	2#9		5#11	2#11		4A	28@6"		16"	LOCATE "B" AND "E" BARS IN 2ND LAYER. AT G1 SPACING USE TYPE B STIRRUPS	
CB23	24	42	I	5#10	2#10		5#8			4A	28@6"		16"	LOCATE "B" BARS IN 2ND LAYER. EXTEND "A" AND "D" BARS PAST GRID 10 TO END OF BEAM AND TERMINATE W/STANDARD HOOK. AT G1 SPACING USE TYPE B STIRRUPS. STIRRUPS SOUTH OF GRID 10 TO BE TYPE 4A @ 12" OC	
								1						THE STANDARD HOUR. AT ST STANDARD OSE THE DISTRICT S. SHIRROFS SOUTH OF GRID TO TO BE THE 4A W 12 OC	
DB24	29	32					1	1	1						
B25	29	VARIES												ARCH BEAM. SEE B/DB-S768 FOR REINFORCEMENT SIZE & LOCATION.	
CB26	29	32						1							
								†						FOR REFERE	NCE ONLY

NOTES:

- 1. SEE DRAWING DB-S767 FOR REINFORCEMENT LOCATION FOR BEAM TYPES, AND STIRRUP TYPES.
- 2. SEE 7/DB-S767 FOR SIZE, QUANTITY AND LOCATION OF SIDE BARS.
- SEE DRAWING DB-S766 FOR CONTINUATION OF CONCRETE BEAM SCHEDULE.



CONCRETE BEAM BRIDGING

DB-S765

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1							DESIGNED BY J. REBER, S.E.
2013							DRAWN BY
02,							P. DIAZ
5							CHECKED BY M. TARAZI
							IN CHARGE
02	0	20130531				READINESS FOR CONSTRUCTION	M. TARAZI
)-po:	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130531



Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Verma A 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

SUBMITTED

1436 California Circle Milpitas, California 95035 A Joint Venture





LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONCRETE BEAM/GIRDER SCHEDULÉ

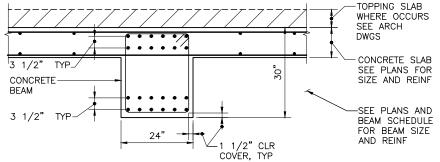
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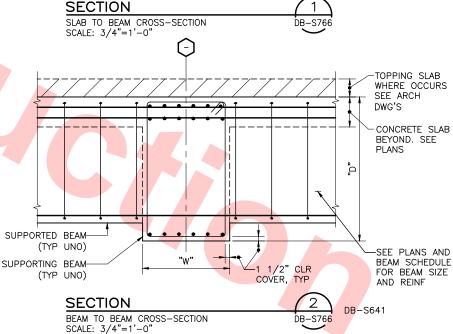
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CONCRETE BEAM SCHEDULE CONCOURSE LEVEL NOTES: STIRRUPS DIMENSIONS REINFORCING MARK REMARKS **BOTTOM BARS** TOP BARS NOTE 2) SPACING SIZE & SIDE DEPTH WIDTH TYPE BARS (E) (A) (B) (c) (D) G1 G2 В E.F. 5#8 **CB27** 24 38 S 4#8 4A 12" CB28 29 48 VARIES CB29 29 ARCH BEAM. SEE A/DB-S770 FOR REINFORCEMENT SIZE AND LOCATION. CB30 29 48 CB31 29 48 ARCH BEAM. SEE B/DB-S769 FOR REINFORCEMENT SIZE AND LOCATION. CB32 29 VARIES **CB33** 29 48 CB34 24 24 S HOLD FOR ELEVATOR LOADS EXTENDED "A' & "C" BARS TO FAR END AT BM MARK CB27 & TERMINATE W/ CB35 24 38 S 5#9 2#9 4#8 2#8 4A STANDARD HOOK. LOCATE "B" & "D" BARS IN 2ND LAYER. CB36 29 32 ARCH BEAM, SEE B/DB-S770 FOR REINFORCEMENT SIZE & LOCATION. **CB37** 29 VARIES **CB38** 29 32 CB39 24 36 S 5#8 5#8 4A 12" CB40 26 54 Ε 4#10 4#10 4A 12" 7#10 7#10 7#10 7#10 CB41 26 54 Ι 7#10 4C 24@6" 12" LOCATE "B" & "E" BARS IN 2ND LAYER. CB42 26 54 Ε 4#10 4#10 4A 12" CB43 26 54 Ε 4#10 4#10 4A 12" 54 Ι 7#10 7#10 7#10 7#10 7#10 4C 12" LOCATE "B" & "E" BARS IN 2ND LAYER. CR44 26 24@6" 4#10 12" CB45 26 54 Ε 4#10 4A **CB46** 4#10 12" 26 54 Ε 4#10 4A CB47 26 **VARIES** Ι 7#10 4#8 8#10 8#10 4C 33@6" 12" ARCH BEAM. SEE B/DB-S770. LOCATE "B" & "D" BARS IN SECOND LAYER. 4#10 4#10 4A 12" **CB48** 26 54 Ε CB49 54 9#11 7#10 9#11 7#10 4C 12" 26 S 24@6" CB50 26 54 S 6#9 2#9 6#9 2#9 4A 14@6" 12" LOCATE "B" & "E" BARS IN 2ND LAYER. CR100 18 24 S 3#7 3#7 44 12" CB101 18 38 S 3#7 3#7 4A 12" CB51 24 38 S 5#10 2#9 5#9 10" LOCATE "B" BARS IN 2ND LAYER. CB52 24 20 S HOLD FOR ELEVATOR LOADS CB53 29 48

- 1. SEE DRAWING DB-S767 FOR REINFORCEMENT LOCATION FOR BEAM TYPES, AND STIRRUP TYPES.
- 2. SEE DWG 7/DB-S767 FOR SIZE, QUANTITY AND LOCATION OF SIDE BARS.

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.





EXP.<u>6/30/1</u>4

SUBMITTED

CHECKED BY M. TARAZI

IN CHARGE M. TARAZI

20130531

CB54

CB55

DATE BY SUB APP

0 20130531

29

29

VARIES

48

READINESS FOR CONSTRUCTION

Skanska Shimmick Herzog

1436 California Circle Milpitas, California 95035



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONCRETE BEAM/GIRDER

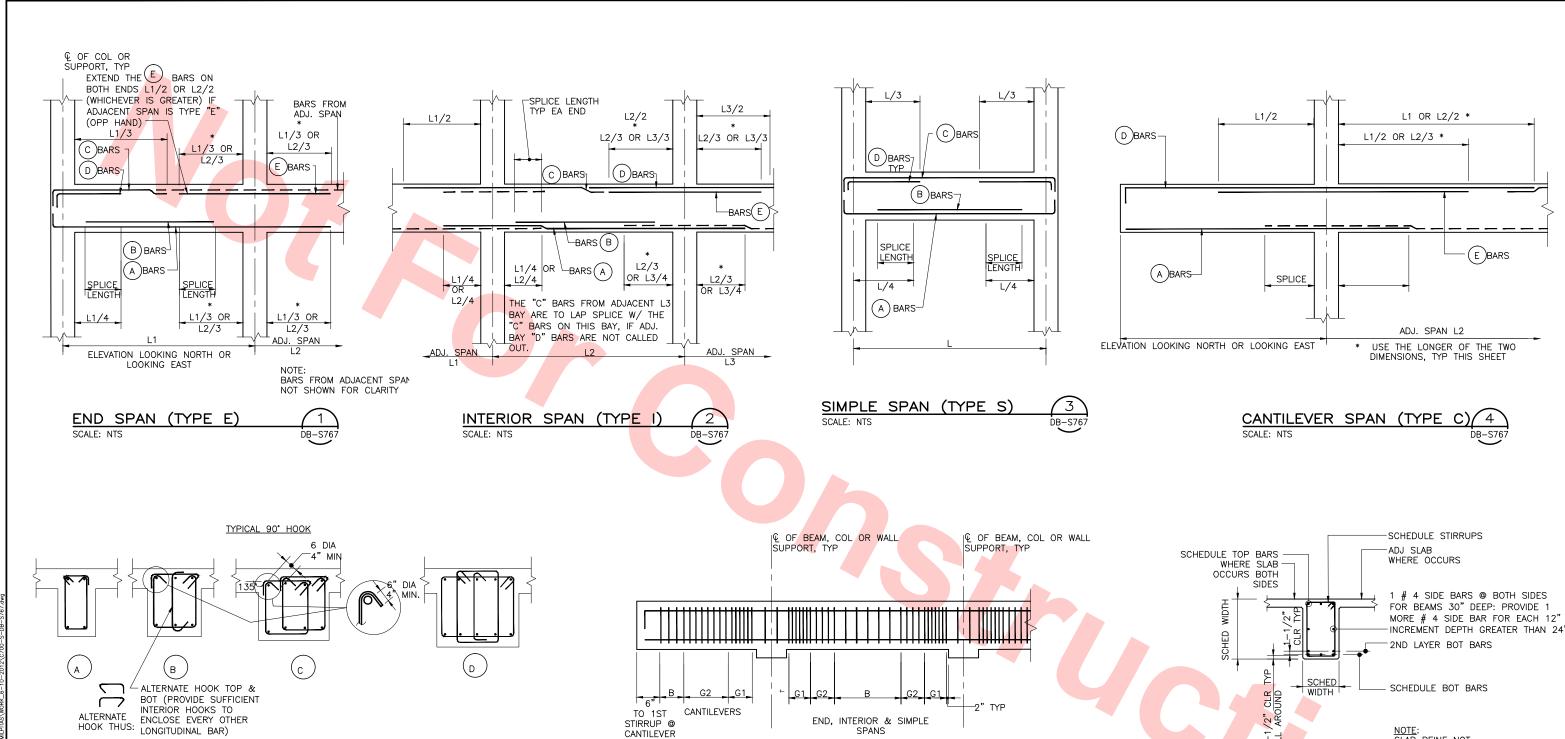
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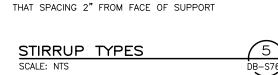
SHEET 2 OF 2

C700-S-DB-S766.dwg AS NOTED C700 DB S766

MFT Consulting E ngineers, Inc. Anil Verma
1773 San Pablo Ave., Suite A3 (510) 222-4106
Pinole, CA 94564 Fax (510) 222-6418 & November 100 Pt. Y-LIN INTERNATIONAL APPROVED

ARCH BEAM. SEE A/DB-S768 FOR REINFORCEMENT SIZE & LOCATION.





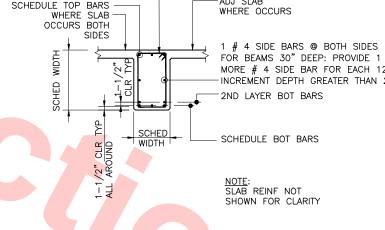
NOTE: WHERE G1 SPACING IS SPECIFIED PROVIDE



REQUIREMENTS THROUGHOUT THE SPAN

IF G1 OR G2 ARE NOT SPECIFIED, THEM USE USE "B" AS SPACING

(TYP UNO)



TYPICAL SECTION SCALE: NTS



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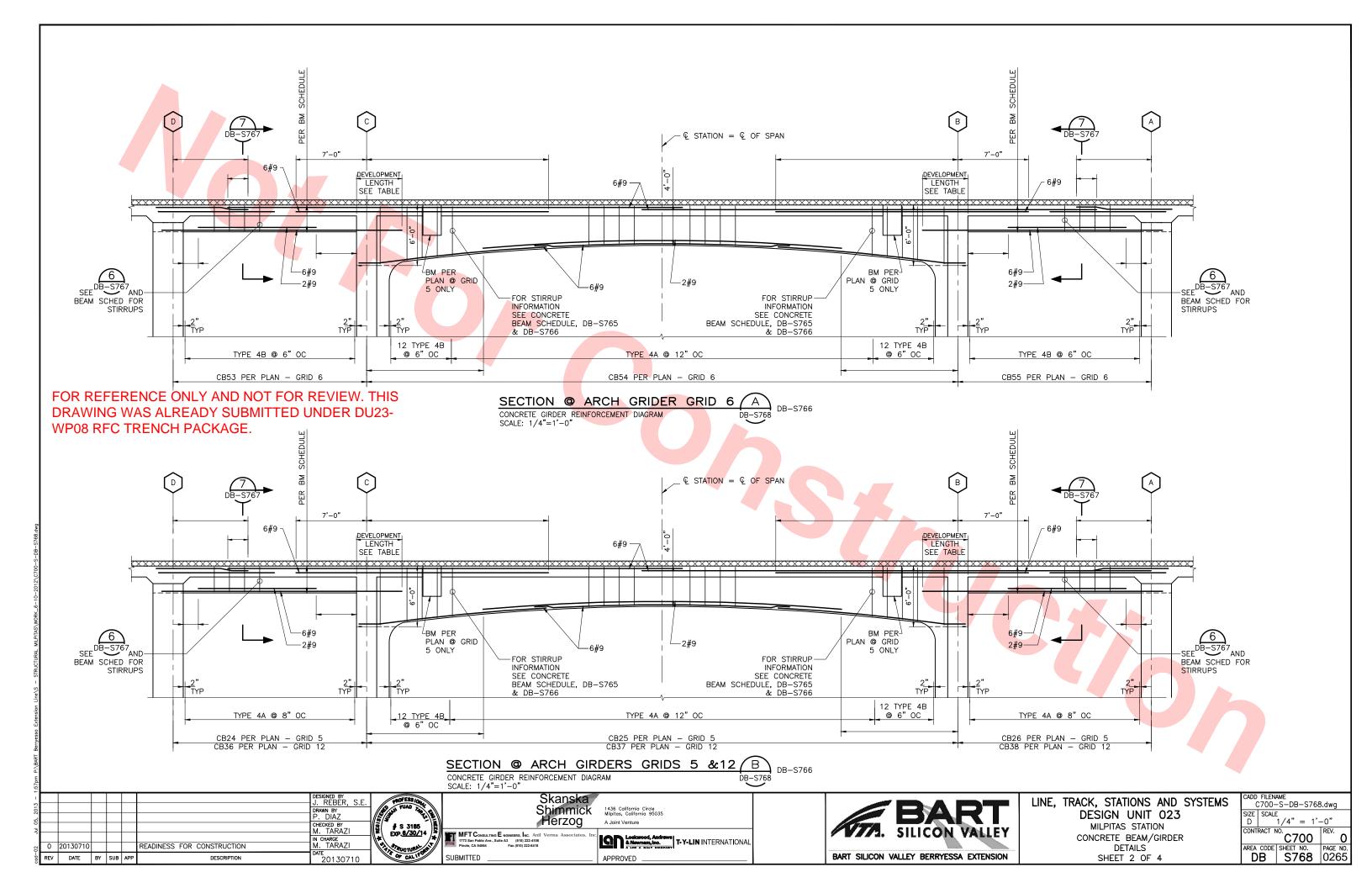
DESIGNED BY J. READINESS FOR CONSTRUCTION DATE BY SUB APP DESCRIPTION DATE BY SUB APP DESCRIPTION DESCRIPTION DESCRIPTION DATE D	MFT Consulting Engineers, Inc. Anil Verma Associates, Inc.
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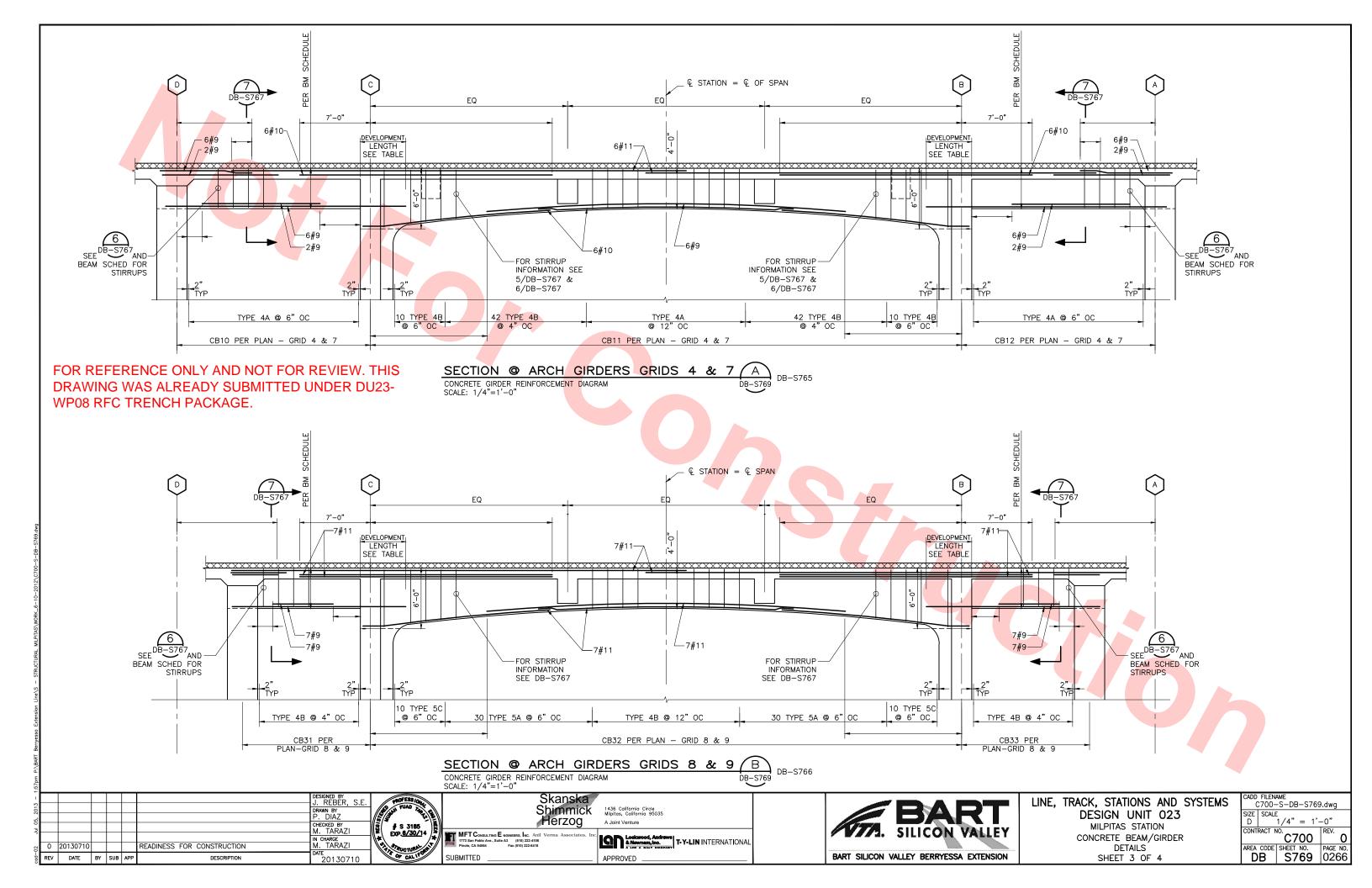


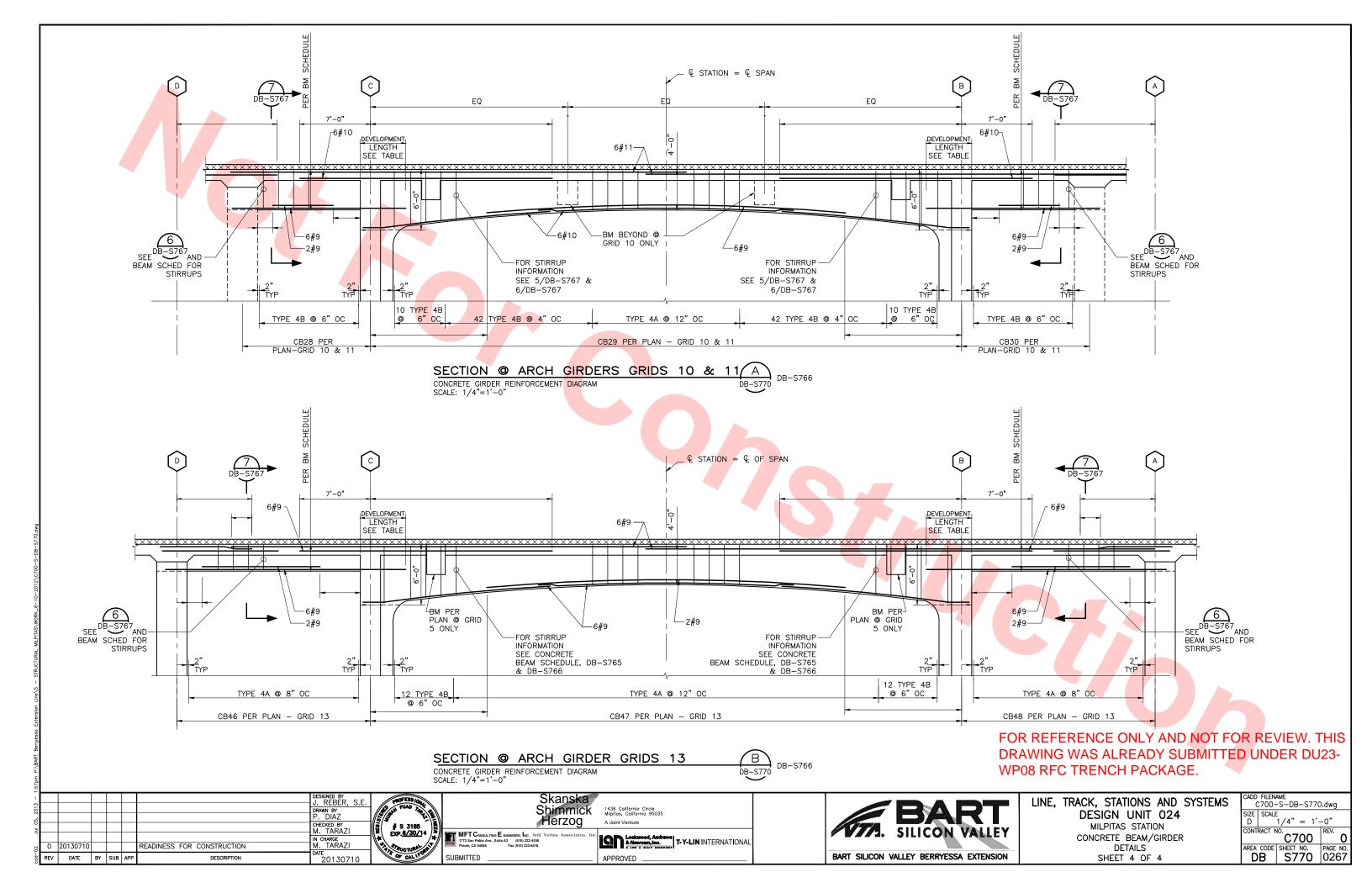
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023** MILPITAS STATION CONCRETE BEAM/GIRDER DETAILS

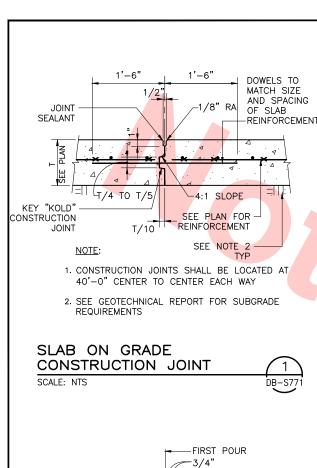
SHEET 1 OF 4

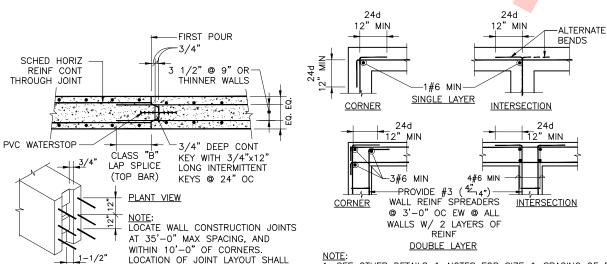
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FLUSH WITH-

SURFACE

NOTE:

SLAB ON GRADE

CONTROL JOINT

SCALE: NTS

RIBBON OR

SEE PLAN FOR-

REINFORCEMENT

1. CONTROL JOINTS SHALL BE LOCATED AT 10'-0"

LOCATED BETWEEN CONSTRUCTION JOINTS.

CENTER TO CENTER EACH WAY AND SHALL BE

PRE-MOLDED STRIP OR

SAW-CUT JOINT AT

CONTRACTOR'S OPTION

SEE OTHER DETAILS & NOTES FOR SIZE & SPACING OF REINF LAP & HOOK FTG BARS AT CORNERS & INTERSECTIONS SAME AS FOR WALLS, EXCEPT THAT ADDED VERTICALS AT CORNERS ARE NOT REQUIRED

TYPICAL VERTICAL CONSTRUCTION JOINT IN CONCRETE WALL (MAT FOUNDATION SIM) 6 SCALE: NTS

BE APPROVED BY THE ARCHITECT

TYPICAL DETAILS OF CONCRETE WALLS REINFORCEMENT



DB-S77

VARIES, SEE PLAN, **ARCHITECTURAL** DRAWINGS TOOLED EDGE (TYP) VARIES, #4 CONT SAD @ 12" MAX CONSTRUCTION JOINT. #3 @ 12 LEAVE ROUGH & CLEAN ACI STD HOOK

NOTE:

EXPOSED FACE OF

EXTERIORS WALL

WHERE OCCURS

FINISH PER SPECS

CAULKING PER SPEC

SECTION 03 11 00

PLACE AFTER CONC

COMPLETED, COLOR

TO MATCH CONC

CONICAL INSERTS

1/2 DEPTH OF

FINISHING IS

EA FACE

CONE

1. AT CONTRACTOR'S OPTION, #3 DOWELS MAY BE EPOXY GROUTED INTO SLAB, DEPTH=2/3 OF SLAB THICKNESS

> CLEAN DIRT, OIL, FORM RELEASE AGENT, ETC., OUT OF FORM TIE HOLE. FILL WITH NON-SHRINK

> > WALL WHERE OCCURS

WATERSTOP PER SPEC'S

IN TO RECEIVE

WATERPROOFING WHERE

EXTERIOR WALL OCCURS

CLEAN DIRT, OIL, FORM

OUT OF FORM TIE HOLF

FILL WITH NON-SHRINK

1/2 DEPTH OF

GROUT

RELEASE AGENT, ETC.,



NOTE:

1. THE SPACING OF FORM TIES ON EXPOSED PORTIONS OF

WALLS SHALL BE PROXIMATELY EQUAL HORIZONTALLY &

FORM TIE HOLES AS NOTED FOR NON-SHRINK GROUT AND

DRY PACK WITH PATCHING MORTAR PER SPECS WITH COLOR

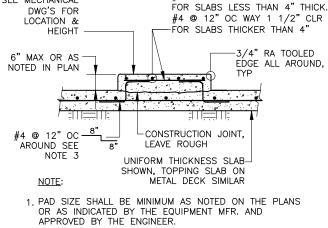
VERTICALLY & SHALL BE UNIFORM IN EACH DIRECTION

2. WHERE CAULKING IS NOT SPECIFIED OR SHOWN, CLEAN

3. DRY PACK METHOD SHALL BE AS SPECIFIED USING STEEL

MORTAR TO MATCH COLOR OF CONCRETE.

FORM SNAP-TIE HOLE



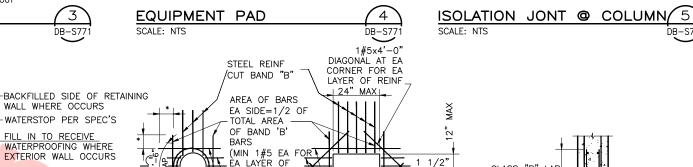
#3 @ 12"OC EA WAY 1" CLR

EQUIPMENT PAD

SEE MECHANICAL

2. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS SPECIFIED OTHERWISE.

3. AT CONTRACTOR'S OPINION, #4 DOWELS MAY EPOXY GROUTED INTO THE SLAB (DEPTH=2/3 OF SLAB THICKNESS OR TOPPING SLAB THICKNESS) AT DECK



#5 HOOP, DIA OF OPNG +6" FOR FA REINE LAYER FOR OPNG LARGER THAN 24"

-STEEL REINF CUT BAND "A' - ARFA OF BARS 1/2 OF TOTAL AREA OF RAND 'A' BARS (MIN 1#5 FOR EA LAYER OF REINF)

REINF)

TYPICAL FOR ALL OPENINGS IN CONCRETE WALLS, SLABS AND FOOTINGS UNLESS INDICATED OTHERWISE ON PLANS

DO NOT WELD REINFORCEMENT TO PIPE SLEEVES AND INSERTS

3. OPENING SLEEVES AND FORMS PER SPECIFICATIONS

4. * DIMENSION IS ACI CLASS 'B' SPLICE LENGTH FOR LARGEST BAR SIZE USED. 2'-0" MINIMUM

5. REINFORCEMENT SHOWN FOR ROUND OPENING IS FOR 24"ø OR LARGER. FOR OPENING LESS THAN 24" PROVIDE REINFORCEMENT SIMILAR TO OPENINGS WITH CORNERS AS SHOWN

OPENING REINFORCEMENT 9

CONCRETE FILL-

STEEL COL

NOTE:

1. JOINT SURFACE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO EXPOSE AGGREGATE TO FULL 1/4" AMPLITUDE

2. JOINT OF WALL TO FOOTING AND JOINT OF CONC SLAB TO WALL ARE SIMILAR

TYPICAL HORIZONTAL CONSTRUCTION JOINT IN CONCRETE WALL

CLASS "B" LAF

CONSTRUCTION-

JOINT

-1/2" P J F

DB-S77

HOLD PJF 1/2" BELOW TOC @ JOINTS

REQUIREMENTS SEALANT

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

HECKED BY VI. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION 0 20130531 DATE BY SUB APP 20130531

EXP.<u>6/30/1</u>4

SUBMITTED

Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil Verma 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 34564 Fax (510) 222-6418

1436 California Circle Milpitas, California 95035 A Joint Venture

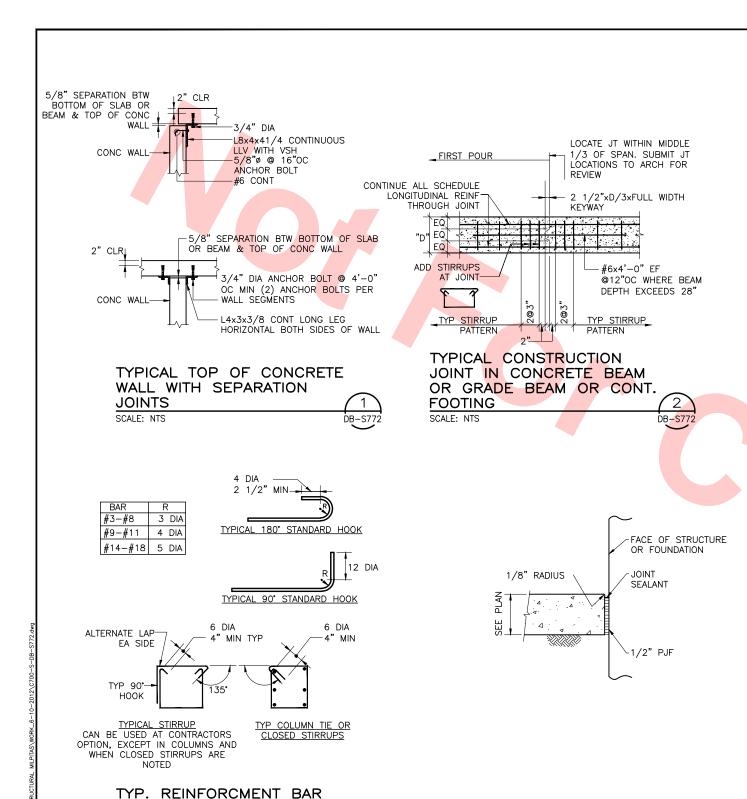
& November 100 Pt. Y-LIN INTERNATIONAL **APPROVED**

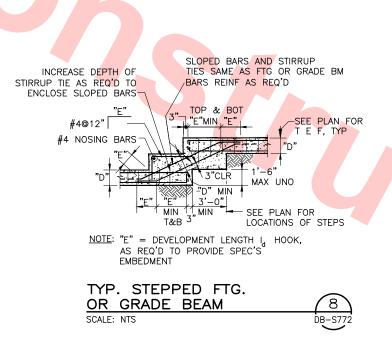


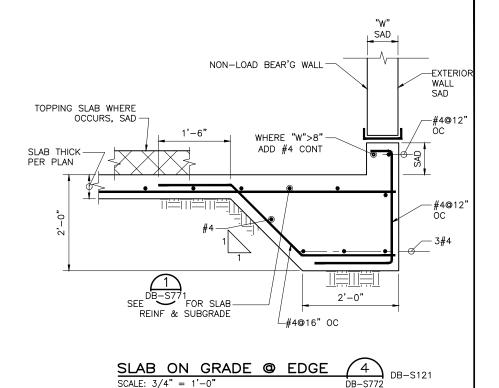
LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023**

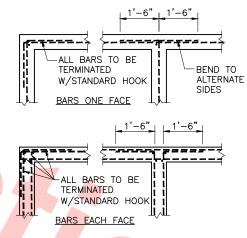
MILPITAS STATION TYPICAL CONCRETE SECTIONS AND DETAILS SHEET 1 OF 3

C700-S-DB-S771.dwg SIZE SCALE NONE CONTRACT C700 S771 DB





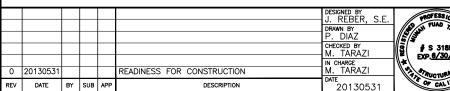




NOTE:
TYPICAL FOOTING BARS RUN CONTINUOUS WITH LAPS PER THE GENERAL
NOTES. PROVIDE ADDITIONAL BARS AT STEP-DOWN CONDITIONS

CONC. FOOTING AND WALL

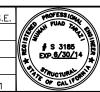
FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.



HOOKS BENDS, STIRRUPS

AND TIES

SCALE: NTS



SLAB ON GRADE

SUBMITTED

EXPANSION

SCALE: NTS

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1436 California Circle Milpitas, California 95035 A Joint Venture

& November 100 Pt. Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION TYPICAL CONCRETE SECTIONS AND DETAILS SHEET 2 OF 3

ADD FILENAME C700-S-DB-S772.dwg AS NOTED C700 DB S772 0269

DEVELOPMENT	LENGTH I	AND SPLICE	LENGTH FOR G	RADE 60,	EPOXY COA	ATED BARS	IN NORM	MAL WEIGH	CONCRETE
			DEVELOPME	NT LENGT	1		SPLICE	LENGTH	
	f'c PSI) SMALLER ARS	No 7 ANI BA	LARGER RS	No 6 AND SMALLER BARS		No 7 AND LARGER BARS	
		TOP	вот.	TOP	вот.	TOP	вот.	TOP	вот.
CASE 1	4,000	61 ^д ь	54 d _b	77 d _b	68 d _b	80 d _P	71 db	101db	89 d b
CASE 2	4,500	92 d _b	81 ^d b	115 ds	88 d _b	120 ^д ь	106 ^d b	150 ф	115 ^ф ь

NOTES:

- 1. AT WALLS, COLUMNS, BEAMS, AND SLABS, USE EMBEDMENT SHOWN ABOVE FOR ALL UNCOATED BARS IN NORMAL WEIGHT CONCRETE WITH CLEAR SPACING BETWEEN BARS GREATER THAN OR EQUAL TO 4 BAR
- 2. TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST BELOW THEM.
- 3. CASE 1

CONCRETE COVER NOT LESS THAN db, & CLEAR SPACING NOT LESS THAN 2db

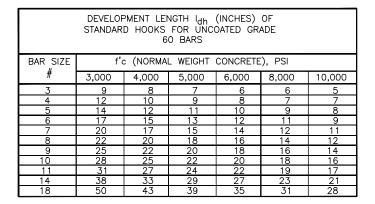
CONCRETE COVER NOT LESS THAN d_b AND CLEAR SPACING OF BARS NOT LESS THAN d_b & WITH STIRRUPS OR TIES THROUGHOUT l_d NOT LESS THAN THE CODE MINIMUM.

WHEN BAR SPACING AND COVER DO NOT MEET CASE 1 REQUIREMENTS

5. SEE CBC 2010 FOR OTHER CONDITIONS

TYPICAL REINFORCEMENT BAR DEVELOPMENT LENGTH AND SPLICES

SCALE: NTS



DEVELOPMENT LENGTH I _{dh} (INCHES) OF STANDARD HOOKS FOR EPOXY COATED GRADE 60 BARS								
BAR SIZE	f'o	f'c (NORMAL WEIGHT CONCRETE), PSI						
#	4,500							
3	11							
4	14							
5	17							
6	21							
7	24							
8	27							
9	31							
10	35							
11		38						
14	46							
18	61							

TYPICAL REINFORCEMENT BAR DEVELOPMENT LENGTH FOR STANDARD HOOKS SCALE: NTS

DEVELOPMENT LENGTH I _{dt} (INCHES) OF HEADED DEFORMED BARS FOR UNCOATED 60 BARS								
BAR SIZE	f'd	(NORMA	L WEIGHT	CONCRETE), PSI				
#	3,000	4,000	5,000	6,000 OR LARGER				
3	7	6	6	5				
4	9	8	7	7				
5	11	10	9	8				
6	14	12	11	10				
7	16	14	12	11				
8	18	16	14	13				
9	20	18	16	15				
10	23	20	18	16				
11	25	22	20	18				

TYPICAL REINFORCEMENT BAR DEVELOPMENT LENGTH FOR HEADED STUDS

SCALE: NTS

CONCRETE WALL REINFORCEMENT SCHEDULE								
WALL THICKNESS	# OF LAYERS	VERTICAL REINFORCEMENT @ EACH LAYER	HORIZONTAL REINFORCEMENT @ EACH LAYER					
24"	2	#7 @ 12 "	#8@12"					
18"	2	#6 @ 12 "	#7@12 "					
12"	2	#5 @ 12"	#6@12"					
10"	2	#5@12"	#5@12"					
8"	1	#5 @ 12"	#7@12"					
6"	1	#5 @ 12 "	#7 @ 12"					
		-	·· ·					

TYPICAL CONCRETE WALL REINFORCEMENT SCHEDULE (4)

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detail

DB11002F

CHECKED BY M. TARAZI 0 20130710 READINESS FOR CONSTRUCTION IN CHARGE M. TARAZI 0 20130531 READINESS FOR CONSTRUCTION REV DATE BY SUB APP 20130531



MFT Consulting E ngineers, Inc. Anil Ve 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-5418

Skanska Shimmick Herzog

1436 California Circle Milpitas, California 95035 A Joint Venture

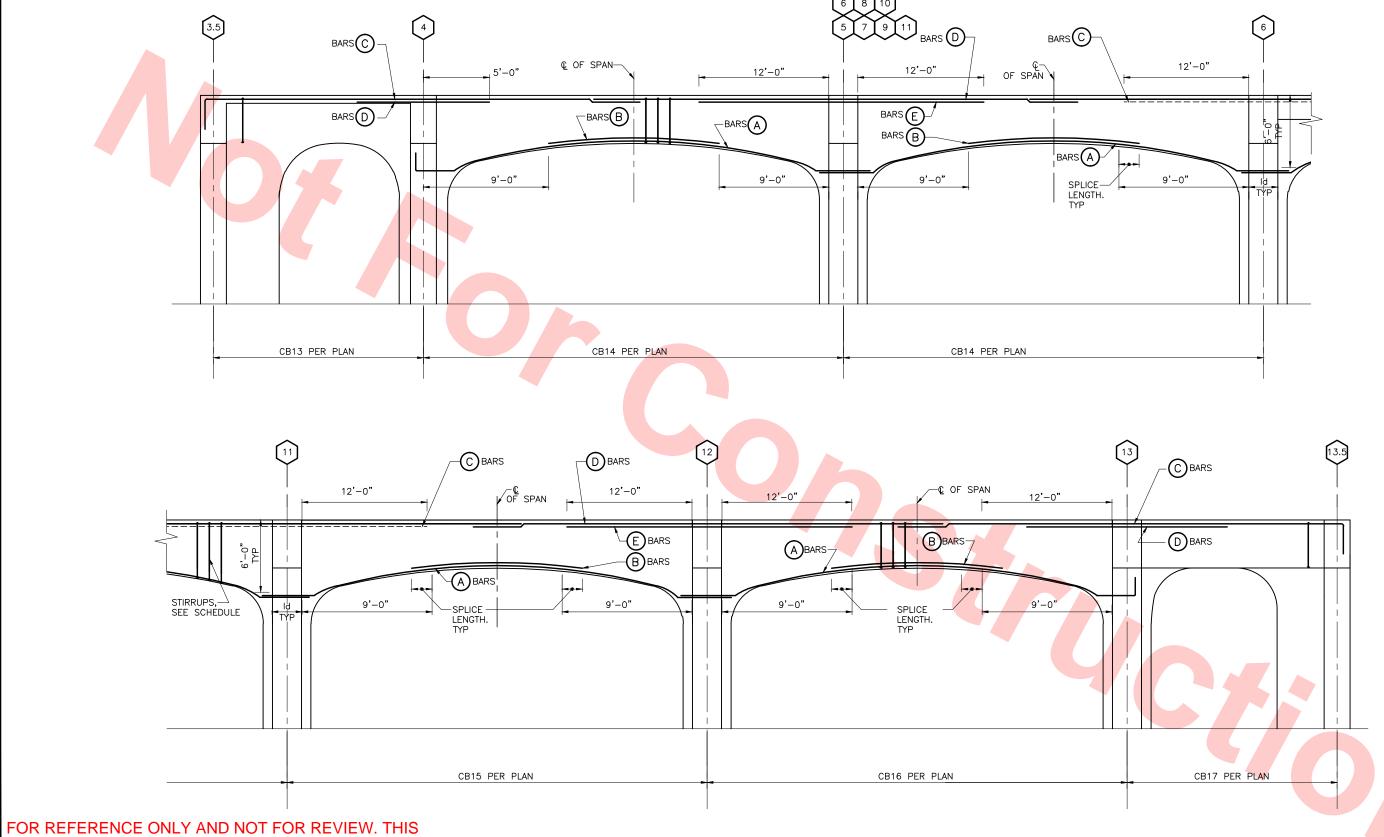
Lockwood, Andrews
& Nowners, inc.
A LEG A DALY COMPANY
T-Y-LIN INTERNATIONAL APPROVED ____



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION TYPICAL CONCRETE SECTIONS AND DETAILS SHEET 3 OF 3

ADD FILENAME C700-S-DB-S773.dwg SIZE SCALE NONE C700 DB S773 0270



DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

SECTION @ ARCH GIRDERS GRIDS B & C

CONCRETE GIRDER REINFORCEMENT DIAGRAM SCALE: 1/4"=1'-0"



DB-S765

2 Jul 08, 2013 - 10	0	20130710				READINESS FOR CONSTRUCTION	DESIGNED BY J. REBER, S.E. DRAWN BY P. DIAZ CHECKED BY M. TARAZI IN CHARGE M. TARAZI	A REGISTER
cad-02	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	100



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3185 6/30/14	MFT Consultin 1773 San Pablo Ave., Pinole, CA 94564
CAL IF ORT	SUBMITTED _

	S	Skanska Shimmic Herzog
		Verma Associates
1773 San Pablo Ave., Suit		
Pinole, CA 94564	Fax (510) 222-6418	

1436 California Circle Milpitas, California 95035

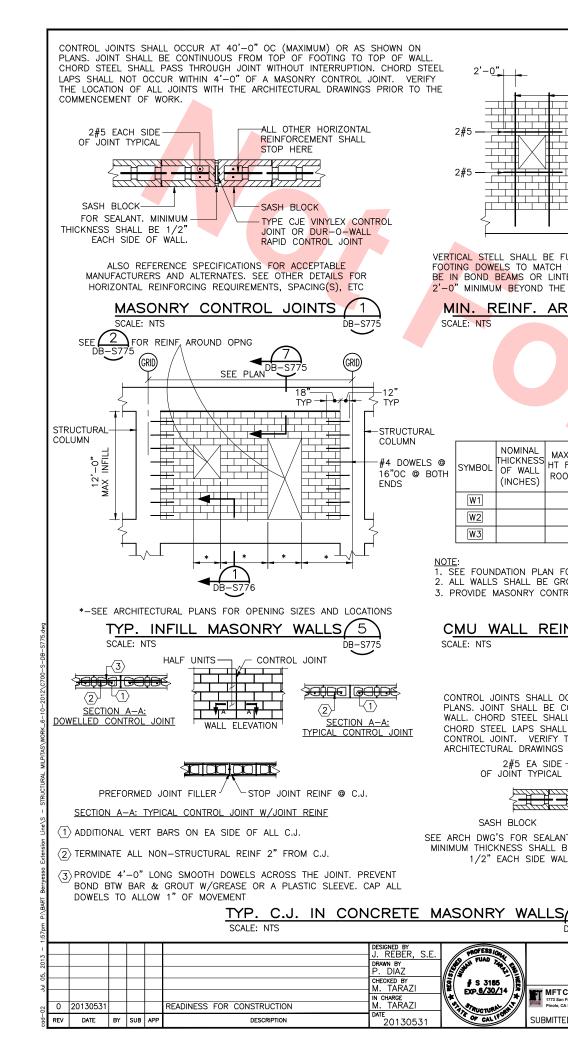
Lockwood, Andrews & Newman, Inc. 4.150 - BAT COMPANY T- Y- LIN INTERNATIONAL APPROVED

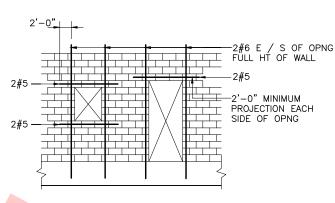


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CONCRETE BEAM/GIRDER										

DETAILS
SHEET 1 OF 1

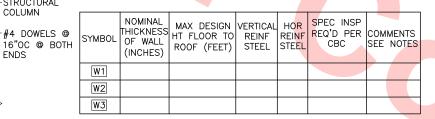
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		CODE	SHEET S7	NO. 74	PAGE NO. 0271





VER<mark>TICAL STE</mark>LL SHALL BE FULL HEIGHT EACH SIDE OF OPNG. PROVIDE FO<mark>OTING DOWEL</mark>S TO MATCH VERTICAL STEEL. HORIZONTAL STEEL SHALL BE IN BOND BEAMS OR LINTEL UNITS OR BOTH AND SHALL PROJECT 2'-0" MINIMUM BEYOND THE EDGES OF THE OPENINGS UNO





-STRUCTURAL

COLUMN

FNDS

SECTION A-A:

CHECKED BY M. TARAZI

IN CHARGE M. TARAZI

20130531

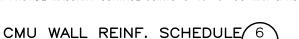
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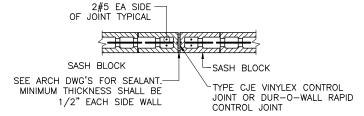
SEE FOUNDATION PLAN FOR LOCATION OF WALL TYPE SYMBOLS

2. ALL WALLS SHALL BE GROUTED SOLID.

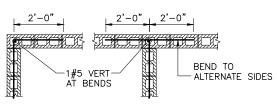
3. PROVIDE MASONRY CONTROL JOINTS @ 40'-0" OC MAX SPACING. SEE



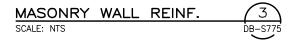
CONTROL JOINTS SHALL OCCUR AT 40'-0" OC (MAXIMUM) OR AS SHOWN ON PLANS, JOINT SHALL BE CONTINUOUS FROM TOP OF FOOTING TO TOP OF WALL. CHORD STEEL SHALL PASS THROUGH JOINT WITHOUT INTERRUPTION. CHORD STEEL LAPS SHALL NOT OCCUR WITHIN 4'-0" OF A MASONRY CONTROL JOINT. VERIFY THE LOCATION OF ALL JOINTS WITH THE ARCHITECTURAL DRAWINGS PRIOR TO THE COMMENCEMENT OF WORK

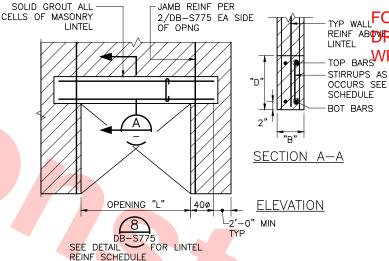




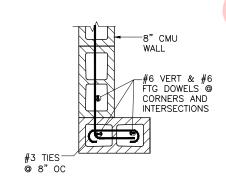


ALL MASONRY WALLS SHALL BE GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON THE FOUNDATION PLAN. AT LEAST ONE #5 SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS IN ADDITION "TO THE REGULAR WALL STEEL. SEE CONCRETE WALL INTERSECTION DETAIL FOR DOUBLE CURTAIN REINFORCING CONDITION, DO SIMILAR.



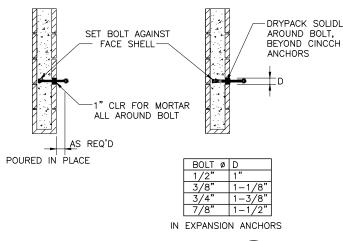












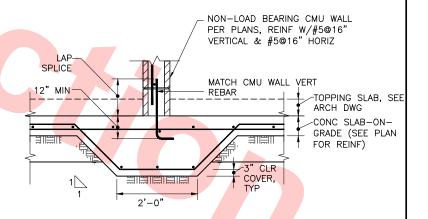
BOLTS IN CONCRETE BLOCK 4 SCALF: NTS

TYP WALLFOR REFERENCE ONLY AND NOT FOR REVIEW. THIS REINF ABOTRAWING WAS ALREADY SUBMITTED UNDER DU23-TOP BARSWP08 RFC TRENCH PACKAGE.

	MARK	MASONRY N ROUGH OPENING				TEL REINFORCING				COMMENTS			
		MAX	"L"	"B"	х	"D"	вот	BARS	STIRRUPS	STOP	BARS		
	L1												
	L2												
	L3												

- 1. SEE DETAIL 7 FOR DEFINITION OF "L", "B", "D" & STANDARD LINTEL DETAIL GROUT ALL LINTELS SOLID.
- 2. STIRRUPS MAY BE SINGLE LEG W/180 HOOK EA END





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SCALE: NTS

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LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION TYPICAL MASONRY SECTIONS AND DETAILS SHEET 1 OF 2

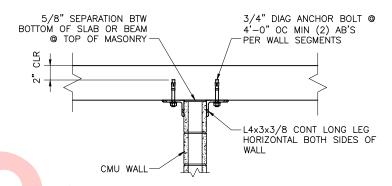
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(C700-S-DB-S775.dwg							
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Skanska 1436 California Circle Milpitas, California 95035 Herzog MFT Consulting E ngineers, Inc. Anil 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (510) 222-6418

& November 100 Pt. Y-LIN INTERNATIONAL BART SILICON VALLEY BERRYESSA EXTENSION

- 1. IF SLAB REINF ARE PARALLEL TO THESE BARS, PLACE @ 1" CLEARANCE FROM SLAB SURFACES TOP & BOT.
- 2. BAR LENGTH ARE THE WALL LENGTH SHOWN ONT HE PLAN PLUS AN EMBEDMENT LENGTH WHENEVER POSSIBLE; OTHERWISE PROVIDE A STANDARD
- 3. WHEN THE DISTANCE "B" ARE NOT CALLED OUT ON PLAN THESE DIMENSION APPLIES B=12" FOR 3 BARS (AS SHOWN HERE) B=18" FOR 4 BARS
- 4. HEIGHT OF CURB AS REQUIRED TO MAINTAIN A HORIZONTAL SURFACE TO PLACE THE CMU BLOCK; BUT MAY NOT EXCEED CMU BLOCK PLUS GROUP

TYP. CMU WALL ON TOP OF SLAB W/O BM. UNDERNEATH SCALE: NTS

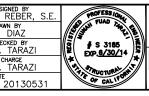


TYPICAL TOP OF CMU WALL WITH SEPARATION JOINTS SCALE: NTS

DB-S603

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

READINESS FOR CONSTRUCTION 0 20130531 REV DATE BY SUB APP



SUBMITTED

CHECKED BY M. TARAZI

IN CHARGE M. TARAZI

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1436 California Circle Milpitas, California 95035 A Joint Venture

& Newmam, Inc.

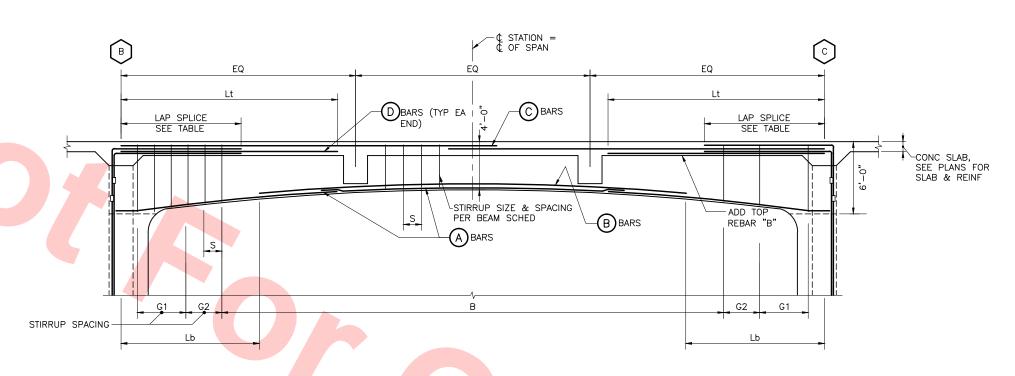
T- Y-LIN INTERNATIONAL APPROVED



LINE, TRACK, STATIONS AND SYSTEMS **DESIGN UNIT 023**

MILPITAS STATION TYPICAL MASONRY SECTIONS AND DETAILS SHEET 2 OF 2

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	l D	В	S776	0273

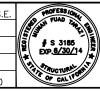


SECTION @ ARCH GIRDERS GRIDS 2 & 3 A
CONCRETE GIRDER REINFORCEMENT DIAGRAM
SCALE: 1/4"=1'-0"

DB-S760

FOR REFERENCE ONLY AND NOT FOR REVIEW. THIS DRAWING WAS ALREADY SUBMITTED UNDER DU23-WP08 RFC TRENCH PACKAGE.

- 1							DESIGNED BY J. REBER, S.E.	
2013								1
							P. DIAZ	RE018TE
05,							CHECKED BY	18
٦							M. TARAZI	1/2
							IN CHARGE	∖ ⊁
02	0	20130710				READINESS FOR CONSTRUCTION	M. TARAZI	<i>\\\</i>
P	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	'





1436 California Circle
Mipitas, California 95035
A Joint Venture

Lockwood, Andrews
A Noveman, sinc.

1-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 024

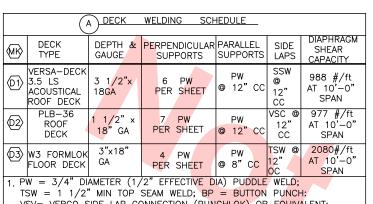
MILPITAS STATION

CONCRETE BEAM/GIRDER

DETAILS

SHEET 1 OF 1

S	(-S-DB	-S777	'.dwg
	SIZE D	SCALE	1/4"	= 1'-	-0"
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	AREA D	B	SHEET S7	NO.	PAGE NO. 0274



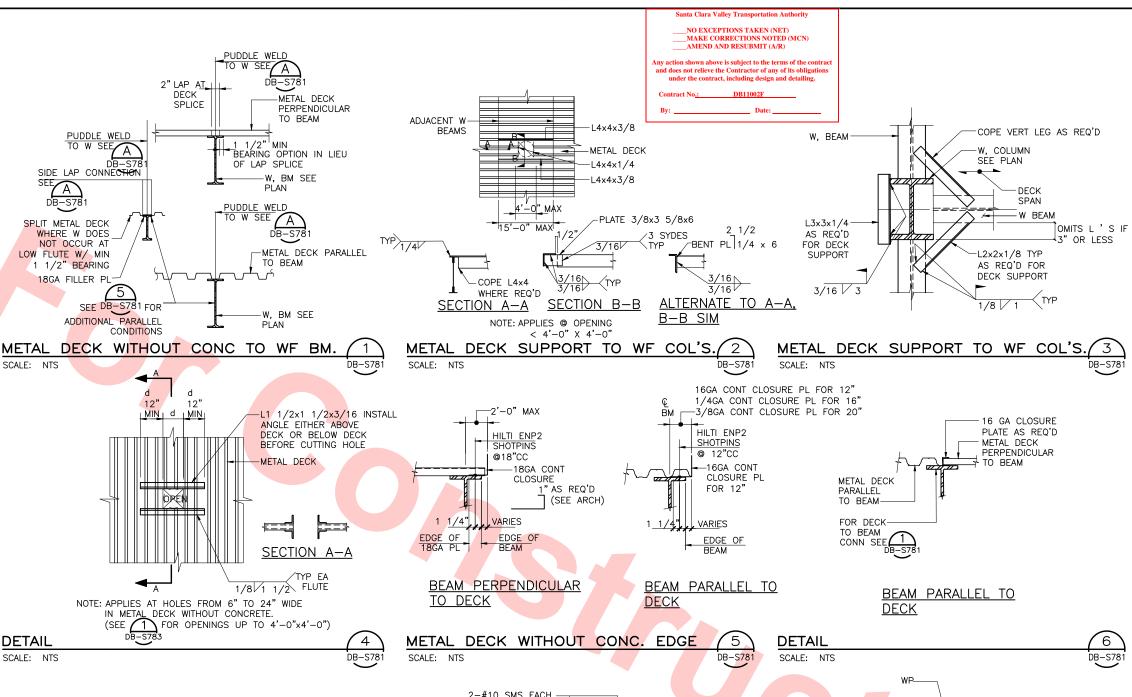
- 1. PW = 3/4" DIAMETER (1/2" EFFECTIVE DIA) PUDDLE WELD;
 TSW = 1 1/2" MIN TOP SEAM WELD; BP = BUTTON PUNCH:
 VSV= VERCO SIDE LAP CONNECTION (PUNCHLOK) OR EQUIVALENT:
 X-ENP = HILTI X-ENP-19-L15: #10=#10
 SCREWS: FW=1 1/2" LONG FILLET WELDS
- 2. METAL DECK (D) SHALL BE CONSOLIDATED SYSTEMS, INC OR APPROVED EQUAL, OF TYPE AND GAUGE SHOWN ON PLANS AND WELDED AS SHOWN ABOVE.
- 3. METAL DECK (D2) & (D3) SHALL BE VERCO OR APPROVED EQUAL, OF TYPE AND GAUGE SHOWN ON PLANS AND WELDED AS SHOWN ABOVE.
- 4. SEE \overrightarrow{B} FOR TYPICAL WELD PATTERNS.
- 5. FOR METAL DECK WELDING AT STRUCTURAL STEEL SUPPORT SEE 1 AND 7 FOR DECK D1 AND D2 , 1 FOR D3 FOR DB-S781
- ALL METAL DECK SHALL HAVE TWO SPANS MINIMUM.
 PROVIDE SHORING AS REQUIRED AT ALL DECKS PER MFR RECOMMENDATIONS.

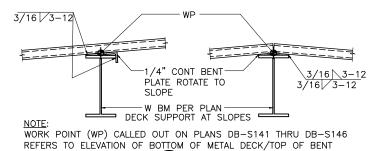
B METAL DEC	CK WELD PATTERNS	
DECK TYPE	DECK PROFILE AND WELD	NO 3/4" Ø PW PER SHEET
VERSA-DECK 3.5LS ACOUSTICAL	24"	6
PLB-36	36"	7
W3 FORMLOK	36"	4

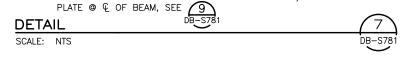
C MINIMUM STRUCTURAL PROPERTIES OF METAL DECK							
DECK TYPE (DEPTH & GAUGE)	l (in⁴) (PER FOOT)	+S (in ³) (PER FOOT)	- S (in ³) (PER FOOT)				
VERSA—DECK 3.5LS ACOUSTICAL	2.48	1.08	1.181				
PLB-36	0.302	0.322	0.335				
W3 FORMLOK	1.203	0.767	0.767				
NOTE: 1. SEE "METAL	NOTE: 1. SEE "METAL DECK NOTES" ON DB-S001X FOR TYPICAL MATERIAL						

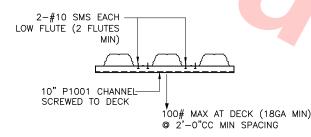
PROPERTIES (Fy) & FINISHES.

REV DATE BY SUB APP



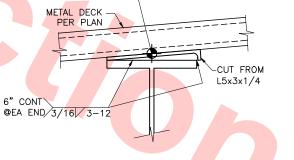






METAL DECK W/O CONCRETE

DETAIL
SCALE: NTS
DB-



DETAIL
SCALE: NTS

				DESIGNED BY J. REBER,	SF
				DRAWN BY	<u> </u>
				P. DIAZ	
				CHECKED BY M. TARAZI	
				IN CHARGE	
0	20130710		READINESS FOR CONSTRUCTION	M. TARAZI	

DESCRIPTION



Skanska Shimmic Herzog MFT Consulting E nameers, Inc., Anii Verma Associates 1773 San Pablo Ave. Suite A3 6/10/1224-4/19

Mun (510) 222-6418



APPROVED

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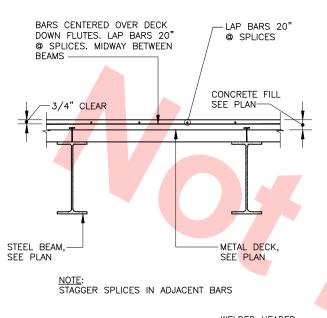
	LINE,	TRACK,	STAT	TIONS	AND	SYSTEMS		
		DES	IGN	UNIT	023			
MILPITAS STATION								
		TYPI	CAL M	METAL D	ECK			

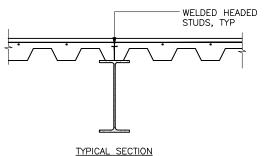
SECTIONS AND DETAILS

SHEET 1 OF 4

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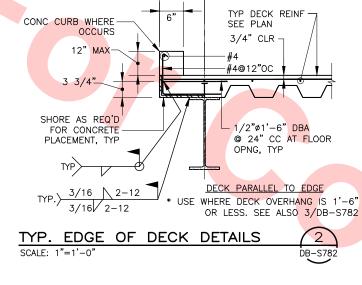
DB-S78





TYP. REINFORCEMENT FOR CONC. FILL OVER METAL DECK





SEE * I

PLAN

MAX

CONC CURB WHERE-

CONT BENT PL 1/4"

MITER CORNERS & BUTT WELD, TYP-TYP $> \frac{3/16}{100} \times \frac{2-12}{100}$

OCCURS, SAD

12" MAX

3/16/2-12

EOD PROVIDE

CLOSURE PL AT

DECK FLUTES, TYP

TYP DECK REINF

SEE PLAN

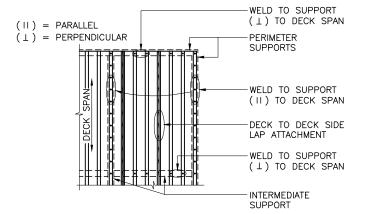
3/4" CLR-

#4@12"0C

DECK PERPENDICULAR TO EDGE

SEE* |

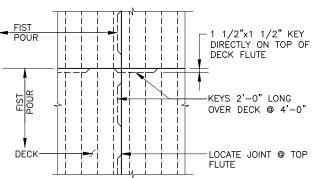
PLAN



TYP. WELDS PARALLEL TO DECK WHERE SIDE BEARING IS LESS THAN 2"

SCALE: 1"=1'-0"

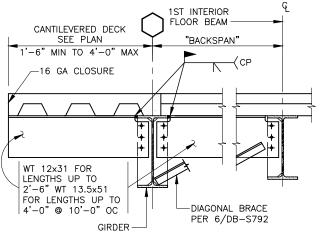
DB-S782



NOTES:

1. SLAB REINF CONT THRU JOINT UN 2. SEE PLAN FOR LOCATION OF CJ

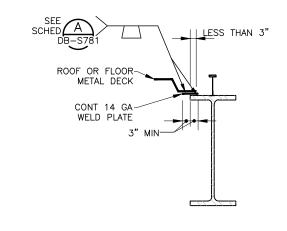
CONSTRUCTION JOINT IN CONCRETE FILL OVER DECK



FOR CONDITION W/ INTERIOR FLOOR DECK PARALLEL TO GIRDER (& FLOOR BEAMS PERPENDICULAR TO GIRDER) DELETE "BACKSPAN" WT'S

TYP. EDGE OF DECK

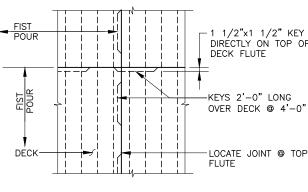
SCALE: 1"=1'-0"

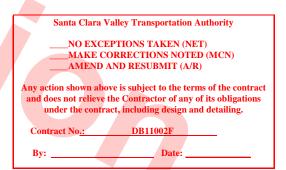


TYP. WELDS PARALLEL TO DECK WHERE SIDE BEARING IS LESS THAN 3"

SCALE: 1"=1'-0"







CHECKED BY
M. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION 0 20130710 REV DATE BY SUB APP 20130710



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1436 California Circle Milpitas, California 95035 A Joint Venture

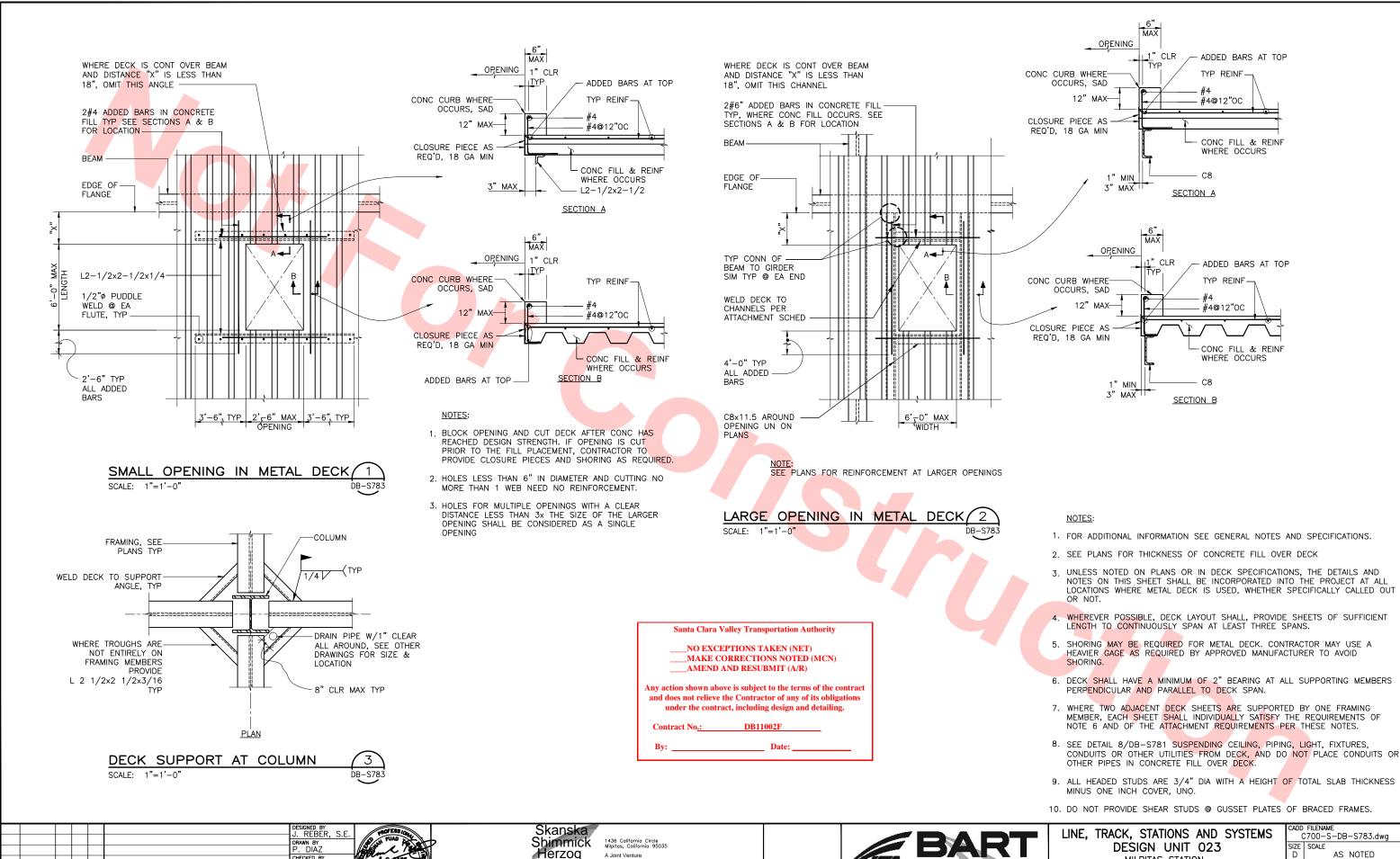




LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION TYPICAL METAL DECK SECTIONS AND DETAILS SHEET 2 OF 4

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M. TARAZI

IN CHARGE M. TARAZI

20130710

READINESS FOR CONSTRUCTION

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REV DATE BY SUB APP

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MFT Consulting E ngineers, Inc. Anil 1773 San Pablo Ave., Suite A3 (510) 222-4106 Pinole, CA 94564 Fax (610) 222-5418

SUBMITTED

Mun (510) 222-6418

C700-S-DB-S783.dwg AS NOTED C700 DB S783 0277

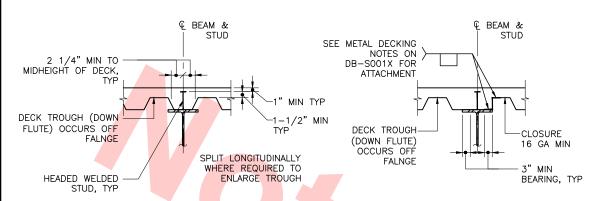
MILPITAS STATION

TYPICAL METAL DECK

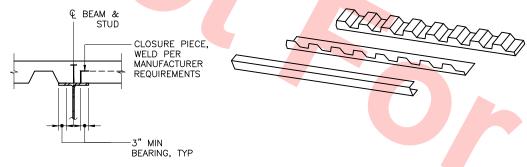
BART SILICON VALLEY BERRYESSA EXTENSION

SECTIONS AND DETAILS

SHEET 3 OF 4



TYPICAL SECTIONS

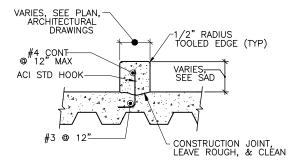


SECTION AT CHANGE OF DECK DIRECTION

DECK AND SHEAR STUD PLACEMENT

SCALE: 1"=1'-0"

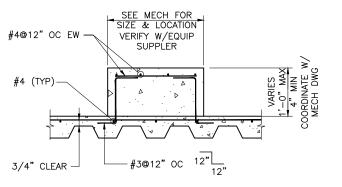




NOTES:

1. AT CONTRACTOR'S OPTION, #3 DOWELS MAY BE EPOXY GROUTED INTO SLAB, DEPTH=2/3 OF TOPPING SLAB THICKNESS AT DECK FLUTE.

CONCRETE CURB SCALE: NTS



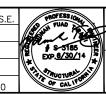
NOTE:
PLACE PAD AFTER SLAB HAS REACHED STRENGTH DESIGN

HOUSE KEEPING CONCRETE PAD

Santa Clara Valley Transportation Authority NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R) Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

DB11002F

CHECKED BY M. TARAZI IN CHARGE M. TARAZI READINESS FOR CONSTRUCTION 0 20130710 REV DATE BY SUB APP 20130710



Skanska Shimmick Herzog MFT Consulting E ngineers, Inc. Anil

1436 California Circle Milpitas, California 95035

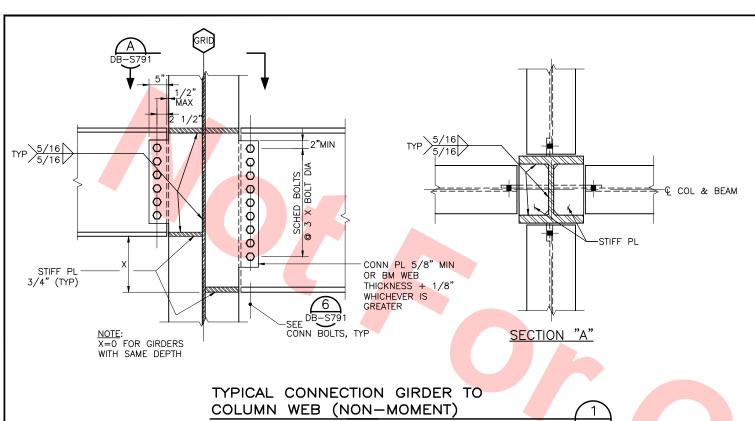


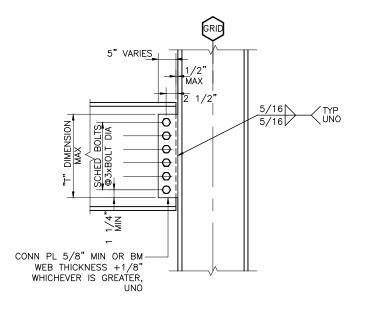


LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION TYPICAL METAL DECK SECTIONS AND DETAILS SHEET 4 OF 4

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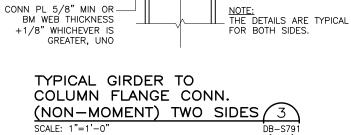


TYPICAL GIRDER TO

COLUMN FLANGE

(NON-MOMENT)

SCALE: 1"=1'-0"



1/2"MAX __ 2 1/2" _

-01

-Oi

-⊖'

-OI

1 MIN

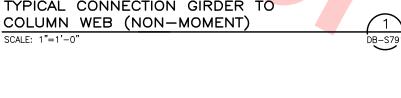
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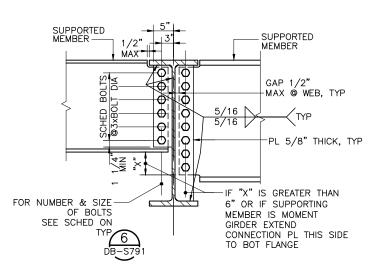
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-CONN TO COL DB-S791 WEB SEE DETAIL





DEPTH OF GIRDER	NUMBER OF 7/8" BOLT DIAMETER A325N			
W36 (UP TO W36x256)	11			
W33	10			
W30	9			
W27	8			
W24	7			
W21	6			
W18	5			
W16	4			
W14	3			
W12	3			
W10	2			
W8, W6	2 - 3/4" ø			

Santa Clara Valley Transportation Authority NO EXCEPTIONS TAKEN (NET) _MAKE CORRECTIONS NOTED (MCN)
_AMEND AND RESUBMIT (A/R) Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing. DB11002F

TYPICAL BEAM TO GIRDER	_	TYPICAL BEAM TO GIRDER	_
ONE SIDE (NON-MOMENT)	4	TWO SIDES (NON-MOMENT)	5
SCALE: 1"=1'-0"	DB-S791	SCALE: 1"=1'-0"	DB-S791

BOLT SCHEDU	LE FOR
NON-MOMENT	CONNS.
SCALE: NTS	

1:58pr							
ī						DESIGNED BY J. REBER, S.E.	PROFESSION
, 2013						DRAWN BY P. DIAZ	South FUAD TO
Jul 05,						CHECKED BY M. TARAZI	S 5185 EXP.8/30/14
05	 20130710				READINESS FOR CONSTRUCTION	IN CHARGE M. TARAZI	ST. STUDINGS
cad-(DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	OF CAL IFOR

HEADED STUDS

DETAILS, WHERE REQUIERED

GAP 1/2" MAX @ WEB

PL 5/8"

EQUALLY SPACED (TYP)

SEE TYP METAL DECK

SUPPORTED

MEMBER

(GIRDER)

FOR NUMBER & SIZE

OF BOLTS

SEE SCHED ON





1436 California Circle Milpitas, California 95035

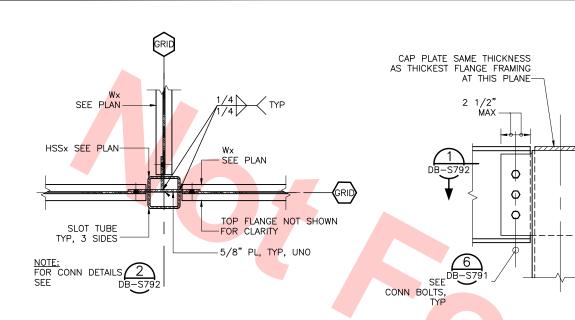




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TYPICAL WF BEAM TO HSS COLUMN SCALE: NTS

1/2" MAX

Φ

Φ

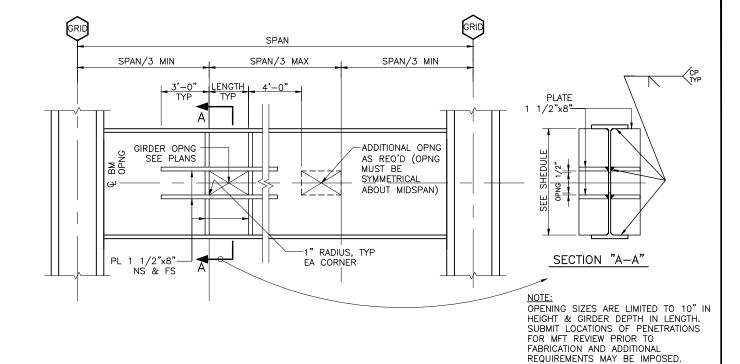
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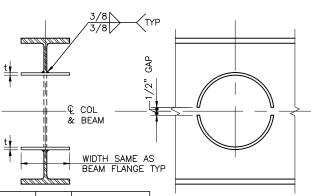
 $-0_{3/16}$

└w bm per plans

HSS COL, SEE

PLANS & COL SCHEDULE



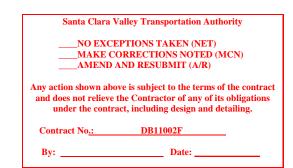


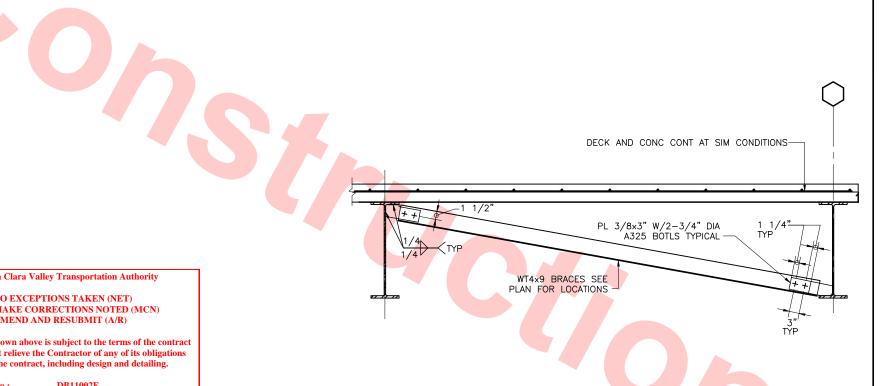
BEAM SIZF	OPNG ø	CIRCULAR PLATE REINF
SIZE	DIA	"t" THICKNESS
W12	6"	1/2"
W14	7"	1/2"
W16	8"	1/2"
W18	9"	1/2"
W21	10"	5/8"
W24	12"	5/8"
W27	13"	5/8"
W30	15"	5/8"
W33	16"	5/8"
W36	17"	5/8"

NOTES:

- 1. PIPE SLEEVES SHALL BE INSTALLED WHERE PLUMBING LINES PENETRATE THE STEEL BEAMS. PROVIDE SLEEVE OPNG PER SCHED IN MIDDLE 1/3 SPAN ONLY.
- 2. FOR MILTIPLE SLEEVES THE CLEAR OUTSIDE DIMENSION BETWEEN SLEEVES, SHALL BE THE LARGEST SLEEVE DIAMETER.







TYPICAL DIAGONAL BRACING SCALE: 1"=1'-0"



						DESIGNED BY J. REBER, S.E.	Γ
						DRAWN BY P. DIAZ	1
						CHECKED BY	K
						M. TARAZI	ľ
						IN CHARGE	١
0	20130710				READINESS FOR CONSTRUCTION	M. TARAZI	ľ
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	



MFT Consulting Engineers, Inc. Anil Ve

Skanska Shimmick 1436 California Circle Milpitas, California 95035 Herzog A Joint Venture





TYPICAL OPENING IN GIRDER

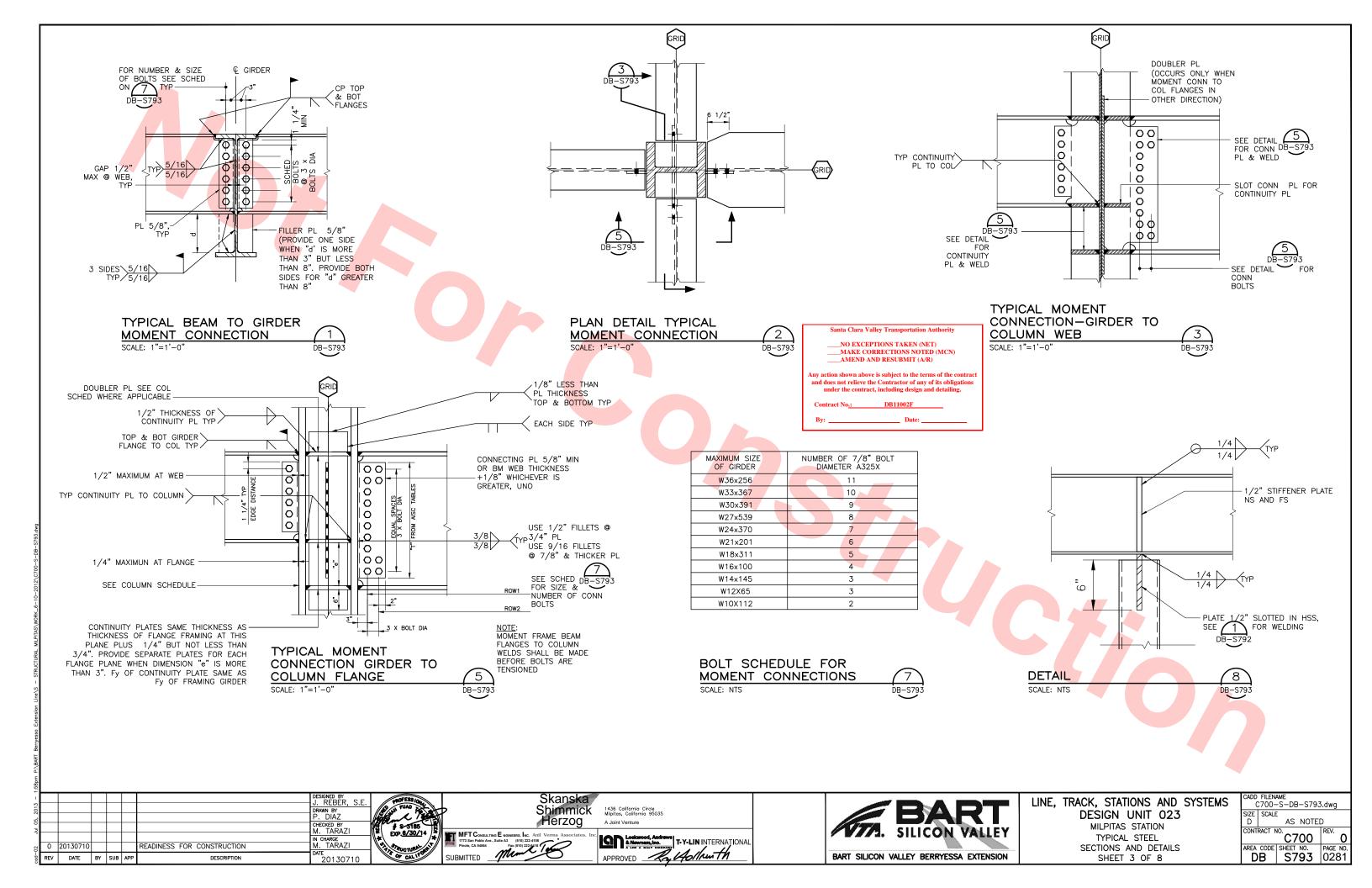
SCALE: 1"=1'-0"

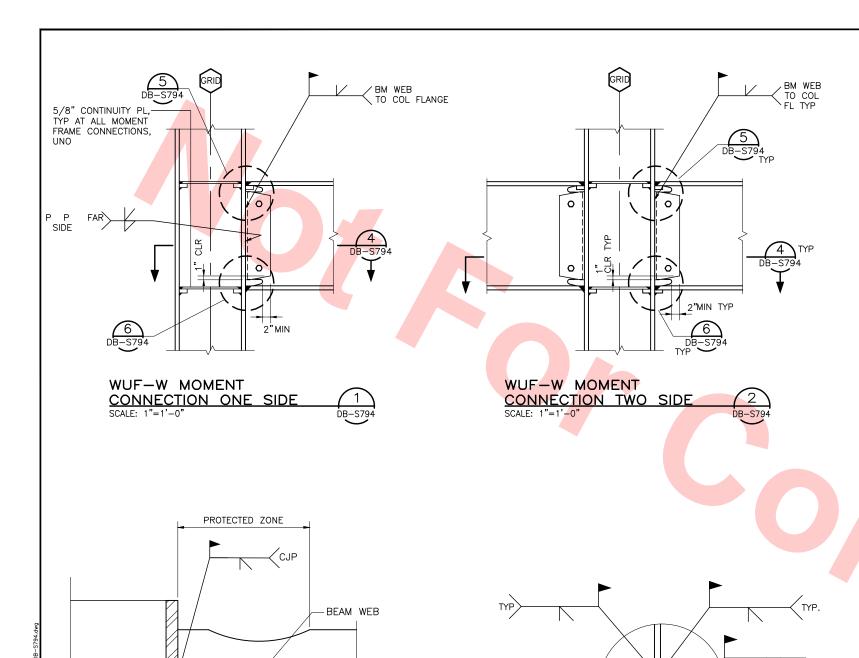
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION TYPICAL STEEL

SECTIONS AND DETAILS

SHEET 2 OF 8

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SHEAR TAB

ttab=tbeam web

BEAM BOTTOM

FLANGE

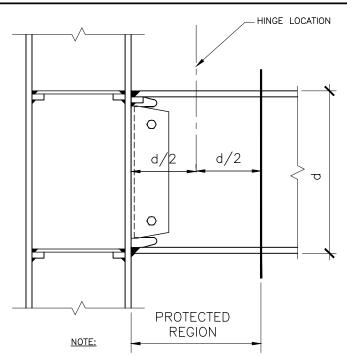
Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: ____DB11002F

By: _____Date: _____



PER SECTION 3.3.3.4 OF FEMA 350, WELDED OR BOLTED ATTACHMENT FOR EXTERIOR FACADES, PARTITIONS, DUCTWORK, PIPING, OR OTHER CONSTRUCTION SHOULD NOT BE PLACED IN THE HINGING AREA OF MOMENT FRAME BEAMS. THE HINGING AREA IS THE PROTECTED REGION LOCATED ONE BEAM DEPTH (d) FROM THE COLUMN FACE.

THIS NOTE IS APPLICABLE TO ALL DRAWINGS.

PROTECTED
REGION/HINGING AREA OF
WUF—W MOMENT
CONNECTION BMS
SCALE: 1 1/2"=1'-0"

DB-S794

TYP 5/16

REMOVE BACKING

TYP

NOTES:

- . SEE 7/DB-S795 FOR FEMA 350 REQUIREMENTS FOR WUF-W MOMENT CONNECTIONS.
- 2. USE TWO 1" DIAMETER A307 ERECTION BOLTS IN WUF-W MOMENT CONNECTIONS. REFER TO ITEM 7, DETAIL 7/DB-S795
- 3. THE WUF-W MOMENT CONNECTIONS SHALL BE COMPLETED, INCLUDING WELDING, PER FEMA 350, FIGURE 3-8 (SHOWN IN 7/DB-S795).





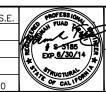
						DESIGNED BY J. REBER, S.E.	Γ.
						DRAWN BY P. DIAZ	
						CHECKED BY M. TARAZI	
						IN CHARGE	∖ •
0	20130710				READINESS FOR CONSTRUCTION	M. TARAZI	/
REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	

TYPICAL BM. WEB TO COLUMN FLANGE

CONNECTION

SCALE: NTS

-COLUMN FLANGE



TYP 5/16

WUF-W MOMENT

CONNECTION

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

SI Sh MFT Consulting E higheers, Inc. Anil Ve





5/16

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1"TYP

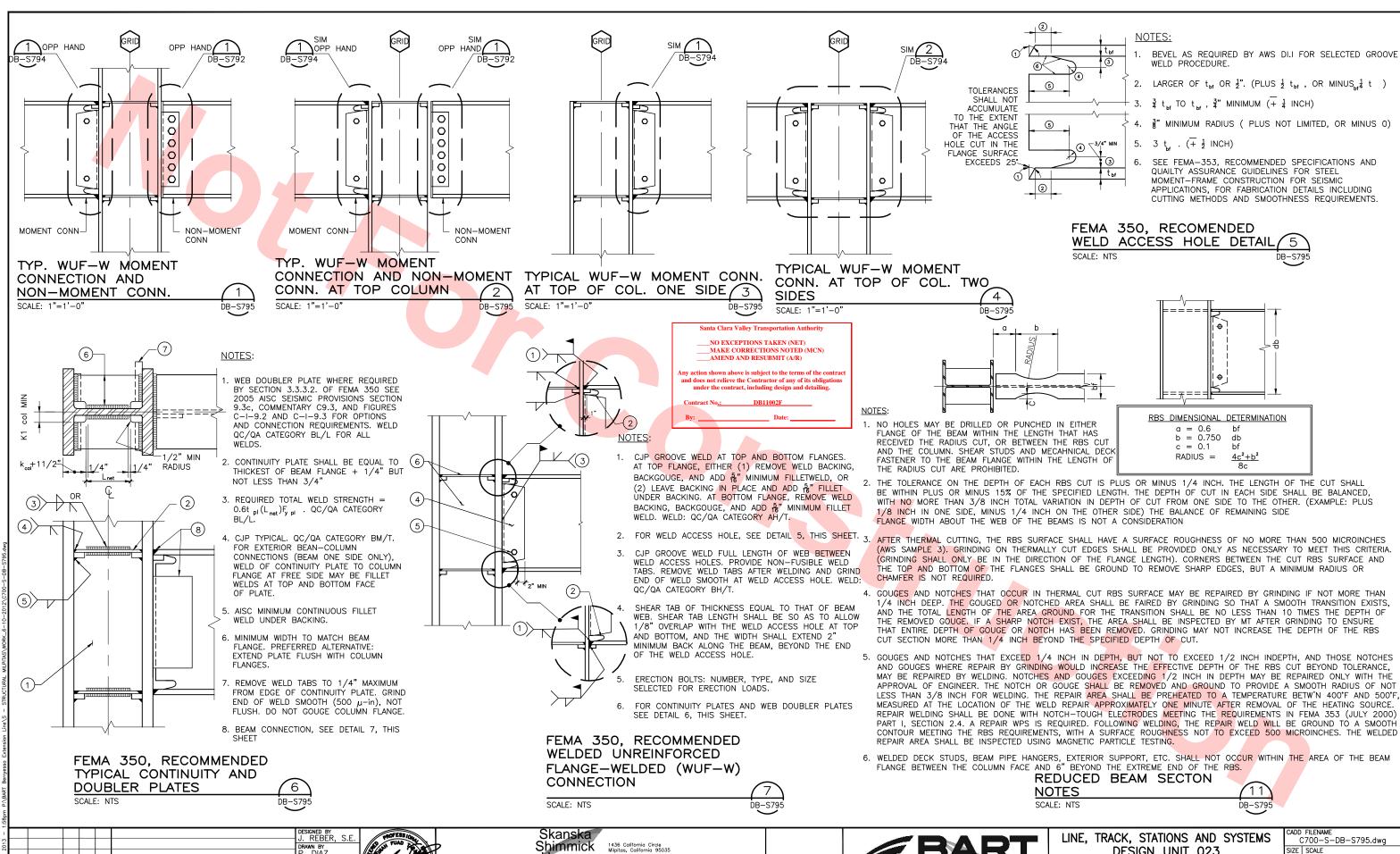




LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TYPICAL STEEL

SECTIONS AND DETAILS

SHEET 4 OF 8



T-Y-LIN INTERNATIONA

Herzog

MFT Consulting E ngineers, Inc. Anil

HECKED BY

IN CHARGE M. TARAZI

20130710

READINESS FOR CONSTRUCTION

DATE BY SUB APP

EXP.<u>6/30/1</u>4

LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

MILPITAS STATION

TYPICAL STEEL

SECTIONS AND DETAILS

SHEET 5 OF 8

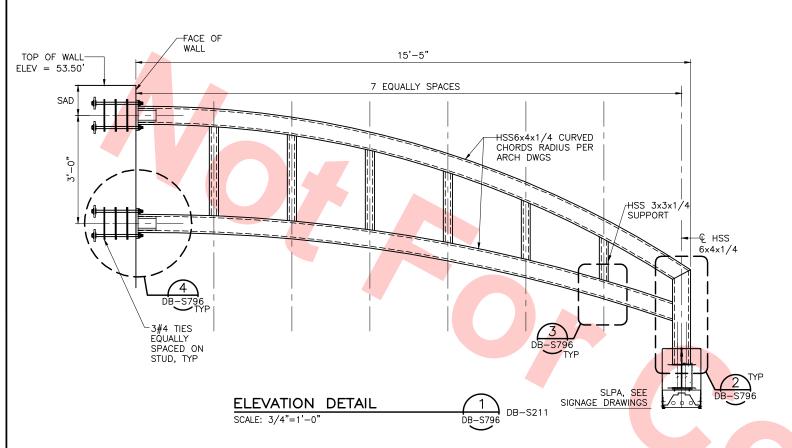
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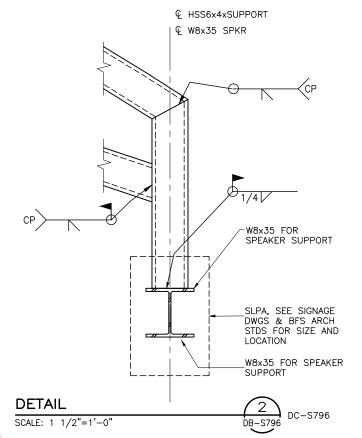
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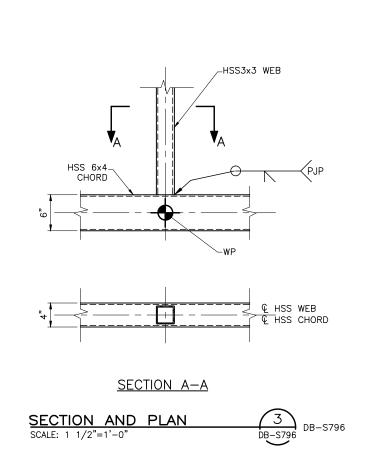
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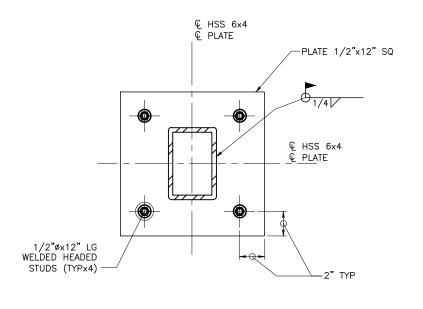
CONTRACT NO.

AREA CODE SHEET NO.
DB S795 028









ELEVATION DETAIL

SCALE: 3"=1'-0"

DB-S796

DB-S796

BART SILICO

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

MAKE CORRECTIONS NOTED (MCN)

__AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Santa Clara Valley Transportation Authority

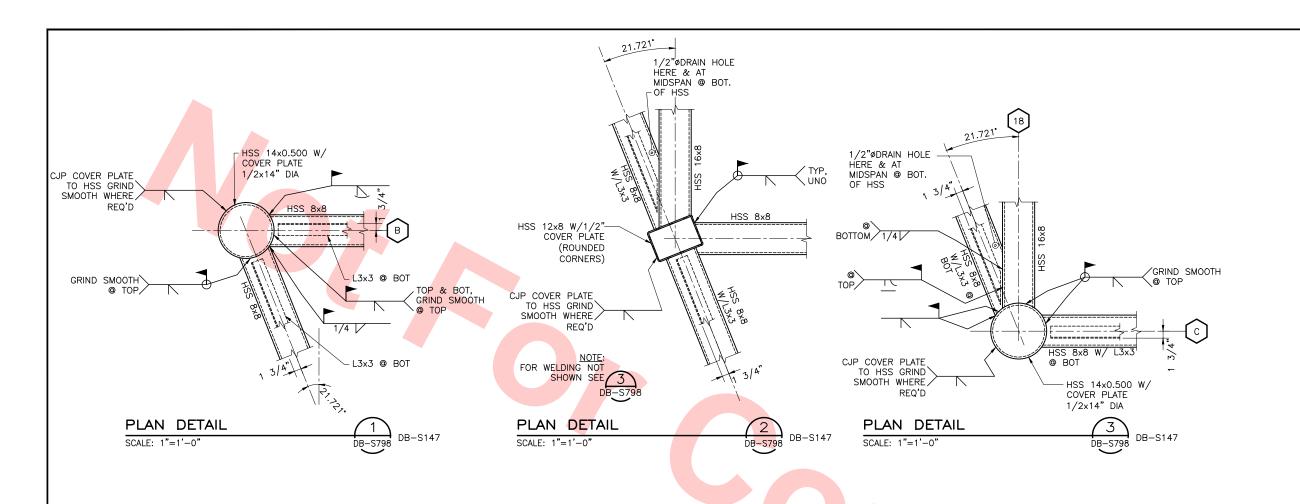
NO EXCEPTIONS TAKEN (NET)

						DESIGNED BY C. BRADBURY	PROFESS ION	Skanska	
						DRAWN BY P. DIAZ	SOUTH FUAD	Shimmick	1436 California Circle Milpitas, California 95035
						CHECKED BY M. TARAZI	\$ 5.5185 EXP. 8/30/14	Herzog	A Joint Venture
_	20130710				READINESS FOR CONSTRUCTION	IN CHARGE	EXP. <u>8/30/14</u>	MFT Consulting E ngineers, Inc. Anil Verma Associates, Inc. 1773 San Pablo Ave., Suite A3 (510) 222-4106	Lockwood, Alteronal
	20130531				READINESS FOR CONSTRUCTION	M. TARAZI	TA PRUCTURAL OFF	Pinole, CA 94564 Fax (510) 222-6418	A LEG A BALT COMPANY
٧	DATE	BY	SUB	APP	DESCRIPTION	20130710	OF CALIFOR	SUBMITTED Musico	APPROVED Ry Golfrenth
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

MILPITAS STATION
TYPICAL STEEL
SECTIONS AND DETAILS
SHEET 6 OF 8

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Santa Clara Valley Transportation Authority

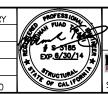
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___MAKE CORRECTIONS NOTED (MCN)
__AMEND AND RESUBMIT (A/R)

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ontract No.: DB11002F

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-bc	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130710	





1436 California Circle Milpitas, California 95035 A Joint Venture

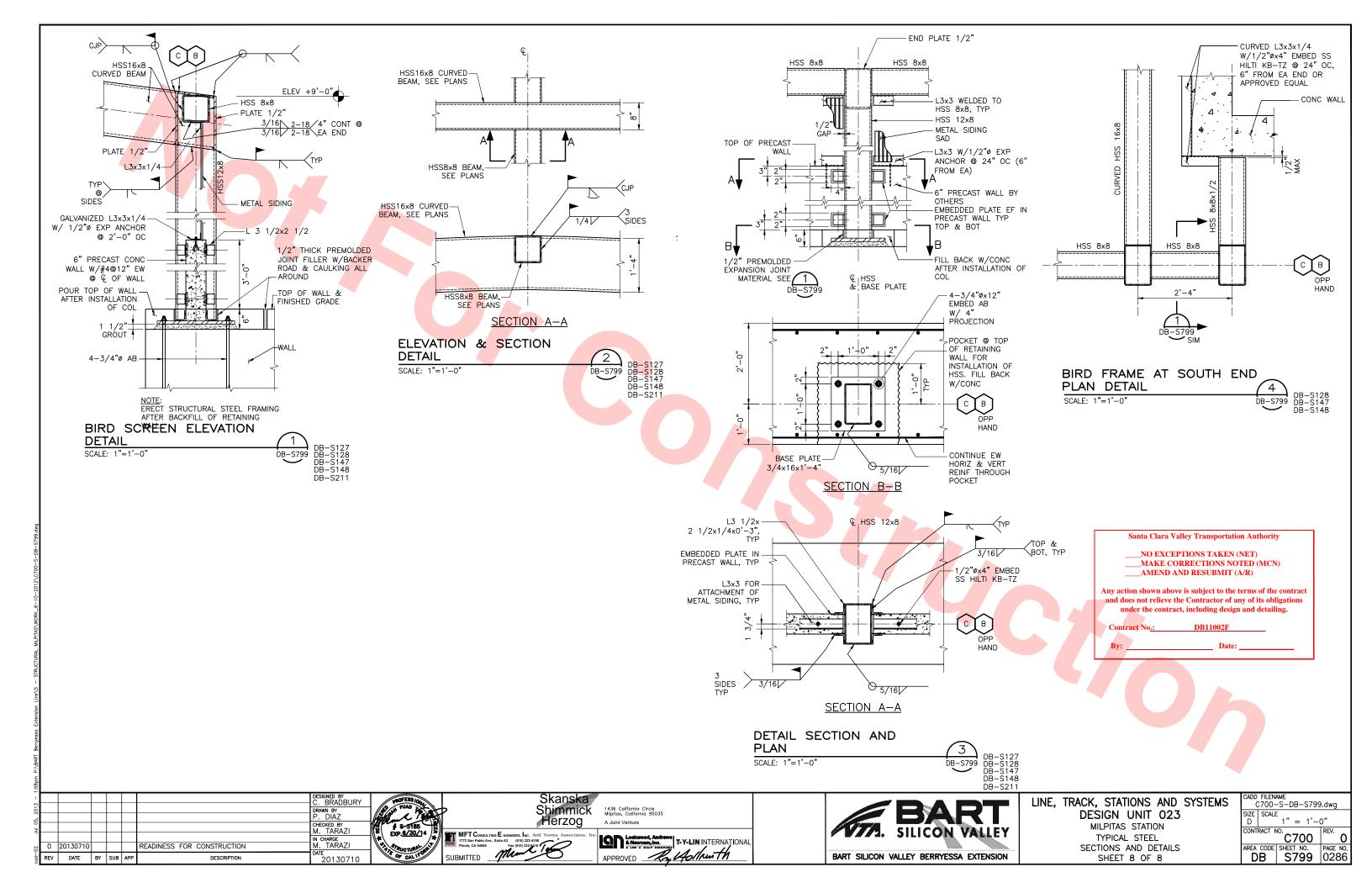




LINE,	TRACK, STATIONS AND SYSTEMS		
	DESIGN UNIT 023		
	MILPITAS STATION		
	SECTIONS AND DETAILS		

SHEET 7 OF 8

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_	CODE	SHEET NO. S798	PAGE NO. 0285				



GENERAL NOTES FOR ANCILLARY BUILDING

- INTENT OF DRAWINGS
 - A. THE GENERAL NOTES APPLY TO ALL STRUCTURAL WORK EXCEPT WHERE THEY CONFLICT WITH DETAILS AND NOTES SPECIFICALLY SHOWN AND NOTED.
 - B. ITEMS IN THE CONSTRUCTION SPECIFICATIONS, BUT NOT SHOWN ON THE DRAWINGS, SHALL BE CONSIDERED AS BEING PART OF THE
 - C. RESOLVE ALL CONFLICTS AND AMBIGUITIES ON THE PLANS AND SPECIFICATIONS WITH THE VTA BEFORE PROCEEDING WITH
 - D. ALL REQUIRED DETAILS OR DIMENSIONS NOT SHOWN SPECIFICALLY SHALL BE OF SIMILAR CHARACTER AS SHOWN FOR SIMILAR
 - F. THE STRUCTURAL DRAWINGS SHOW ONLY A PRELIMINARY DESIGN. THE DB CONTRACTOR SHALL REVIEW AND FINALIZE THE DESIGN AND STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND COMMUNICATIONS/SYSTEMS DRAWINGS FOR ITEMS WHICH REQUIRE COORDINATION DURING THE DESIGN AND CONSTRUCTION OF THE STRUCTURE.
- 2. BASIS OF DESIGN
 - A. BART FACILITIES STANDARDS (BFS), RELEASE 2.1A
 - B. BART FACILITIES DESIGN GUIDELINES, RELEASE 2.1A
 - C. BART FACILITIES DESIGN CRITERIA, RELEASE 2.1A
 - D. BART STANDARD PLANS, RELEASE 2.1A
 - E. BART FACILITIES SPECIFICATIONS, RELEASE 2.1A
 - F. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-05/ASCE 6-05/TMS 602-05
 - G. CALIFORNIA BUILDING CODE, 2010
 - H. AMERICAN CONCRETE INSTITUTE, BUILDING CODE AND COMMENTARY, 318-05
 - I. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 13th EDITION.
 - J. AMERICAN WELDING SOCIETY: ANSI/AWS D1.1 2004
- 3. EXISTING CONDTIIONS

THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PERTINENT TO THE WORK PRIOR TO MATERIAL FABRICATION AND/OR CONSTRUCTION. FIELD CONDITIONS DIFFERENT FROM THOSE NOTED ON THE CONSTRUCTION DRAWINGS SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE VTA. ITEMS TO BE FIELD VERIFIED INCLUDE BUT ARE NOT LIMITED TO:

- A. LOCATION, DIMENSIONS, AND ELEVATIONS OF EXISTING STRUCTURES, STRUCTURAL ELEMENTS, EQUIPMENT AND UTILITIES, WHICH HAVE BEEN SHOWN AS REFERENCE ON THE DRAWINGS AND MAY AFFECT NEW
- B. HORIZONTAL AND VERTICAL CLEARANCES.
- C. HORIZONTAL AND VERTICAL TIE-IN POINTS

4 DESIGN LOADS

A. ROOF DEAD LOAD = 17 PSF

B. ROOF LIVE LOAD = 20 PSF (REDUCIBLE)

C. WIND LOAD

WIND SPEED = 85 MPH **EXPOSURE** = C IMPORTANCE FACTOR = 1.15

D. SEISMIC LOAD

REDUNDANCE FACTOR = 85 MPH IMPORTANCE FACTOR = 1.25 SFISMIC DESIGN CATEGORY = C

- 5. MATERIAL STRENGTHS:
- A. CONCRETE:
 - 1. f'c = 3,000 PSI (TYPICAL)
 - 2. f'c = 60.000 PS
- MASONRY:
 - 1. f'm = 1,500 PSI
- 2. f'q = 2,500 PSI
- 3. fy = 60,000 PSI
- C. STRUCTURAL STEEL:
 - 1. WF AND WT SHAPES, ASTM A992 GRADE 50
 - 2. C, MC, L AND 2L SHAPES, ASTM A36
 - 3. HSS SHAPES, ASTM A500 GRADE B

REINFORCED MASONRY NOTES:

- A. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASCM C90.
- B. ALL MORTAR MATERIALS SHALL CONFORM TO ASTM C 270.
- C. TYPE M OR S GROUT SHALL CONFORM TO ASTM C476.
- D. ALL CELLS IN CONCRETE BLOCK CONSTRUCTION SHALL BE GROUTED
- E. CONCRETE BLOCK CONSTRUCTION SHALL BE RUNNING BOND WITH OPEN ENDED BLOCKS.
- F. CONTINOUS INSPECTION IS REQUIRED DURING CONSTRUCTION OF MASONRY
- G. ALL BOLTS EMBEDDED IN CONCRETE BLOCK SHALL HAVE A MINIMUM OF 1" OF GROUT BETWEEN THE BOLT AND THE CONCRET BLOCK ON ALL

STRUCTURAL LEGEND:

INDICATES OPENING

INDICATES BLOCKOUT INDICATES GRADE BREAK

INDICATES CMU WALL

INDICATES DIRECTION OF RIBS IN METAL DECK

<u>-1%_</u>

INDICATES CROSS SLOPE

INDICATES SLOPED SURFACE

(BF-1)

INDICATES BRACED FRAME

W24x

INDICATES STRUCTURAL STEEL WIDE FLANGE BEAM AND SIZE

COL

INDICATES STRUCTURAL STEEL COLUMN

INDICATES BRACE DIRECTION

L3x3x

INDICATES STRUCTURAL STEEL ANGLE AND SIZE

DO

INDICATES BEAM IDENTICAL TO ADJACENT MEMBER

STRUCTURAL ABBREVIATIONS:

BART FACILITY STANDARDS CENTERLINE CAST-IN-PLACE CMU CONCRETE MASONRY UNIT

EQ FACH WAY

SPECIFIED COMPRESSIVE STRENGTH OF STRUCTURAL f'c CONCRETE AT 28 DAYS

SPECIFIED YIELD STRENGTH OF REINFORCEMENT ULTIMATE STRENGTH OF STEEL f'm SPECIFIED COMPRESSIVE STRENGTH OF MASONRY

AT 28 DAYS

SPECIFIED COMPRESSIVE STRENGTH OF CMU GROUT KIPS PER SQUARE INCH

POUNDS

LBS PCF POUNDS PER CUBIC FOOT PSF POUNDS PER SQUARE FOOT PSI P/S POUNDS PER SQUARE INCH

PRESTRESSED DIAMETER NOT IN CONTRACT NIC

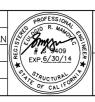
Santa Clara Valley Transportation Authority

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1436 California Circle Milpitas, California 95035 A Joint Venture

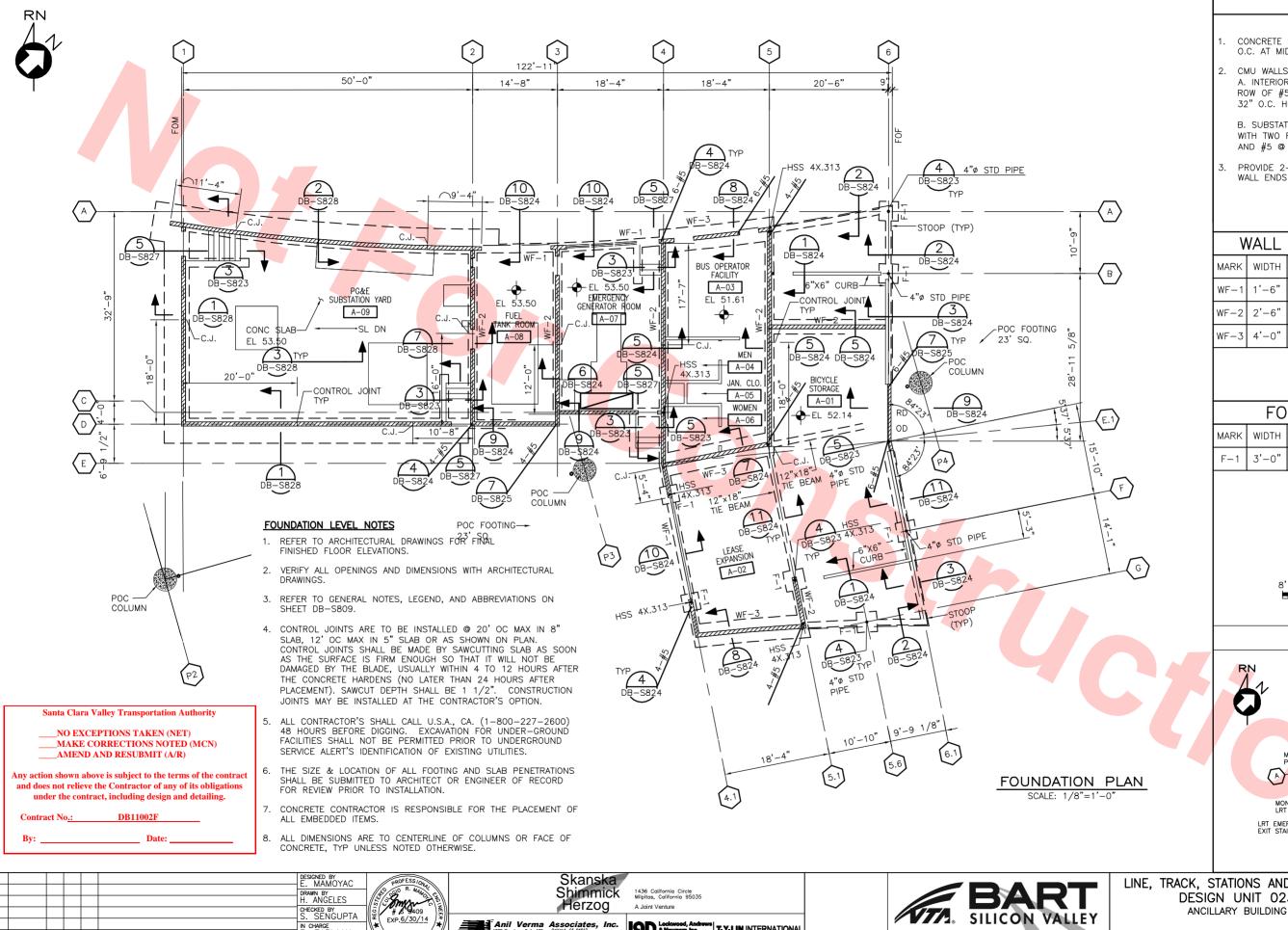




LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 ANCILLARY BUILDING

STRUCTURAL GENERAL NOTES

C700-S-DB-S809.dwg SIZE SCALE NONE CONTRACT NO C700 DB S809



NOTES

- CONCRETE SLAB SHALL BE 5" THICK WITH #4 @ 18" O.C. AT MID DEPTH
- 2 CMU WALLS: A. INTERIOR AND EXTERIOR WALLS- 8" CMU WITH ONE ROW OF #5 @ 24" O.C. VERTICAL BARS AND #5 @ 32" O.C. HORIZONTAL BARS
- B. SUBSTATION WALLS (EXCEPT LINE 2) 8" CMU WITH TWO ROWS OF #5 @ 24" O.C. VERTICAL BARS AND #5 @ 32" O.C. HORIZONTAL BARS
- 3. PROVIDE 2-#5 JAMB BARS PER 12/DB-S824 @ ALL WALL ENDS Ü.N.O.

WALL FOOTING SCHEDULE

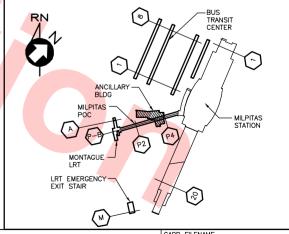
MARK	WIDTH	THICKNESS	REINFORCEMENT			
WANN	WIDIN	ITIICKINESS	LONGITUDINAL	TRANSVERSE		
WF-1	1'-6"	12"	2 - #5	#4 @ 12" BOTTOM ONLY		
WF-2	2'-6"	18"	2 - #5	#4 @ 12" TOP & BOTTOM		
WF-3	4'-0"	12"	2 - #5	#4 @ 12" TOP & BOTTOM		

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
F-1	3'-0"	3'-0"	12"	4-#5



KEY PLAN



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

FOUNDATION PLAN

CADD FILENAME C700-S-DB-810.dwg SIZE SCALE 1/8"=1'-0" C700 REA CODE SHEET NO. PAGE NO. 0288

CHARGE . BARLAAN READINESS FOR CONSTRUCTION REV DATE BY SUB APP 20130710

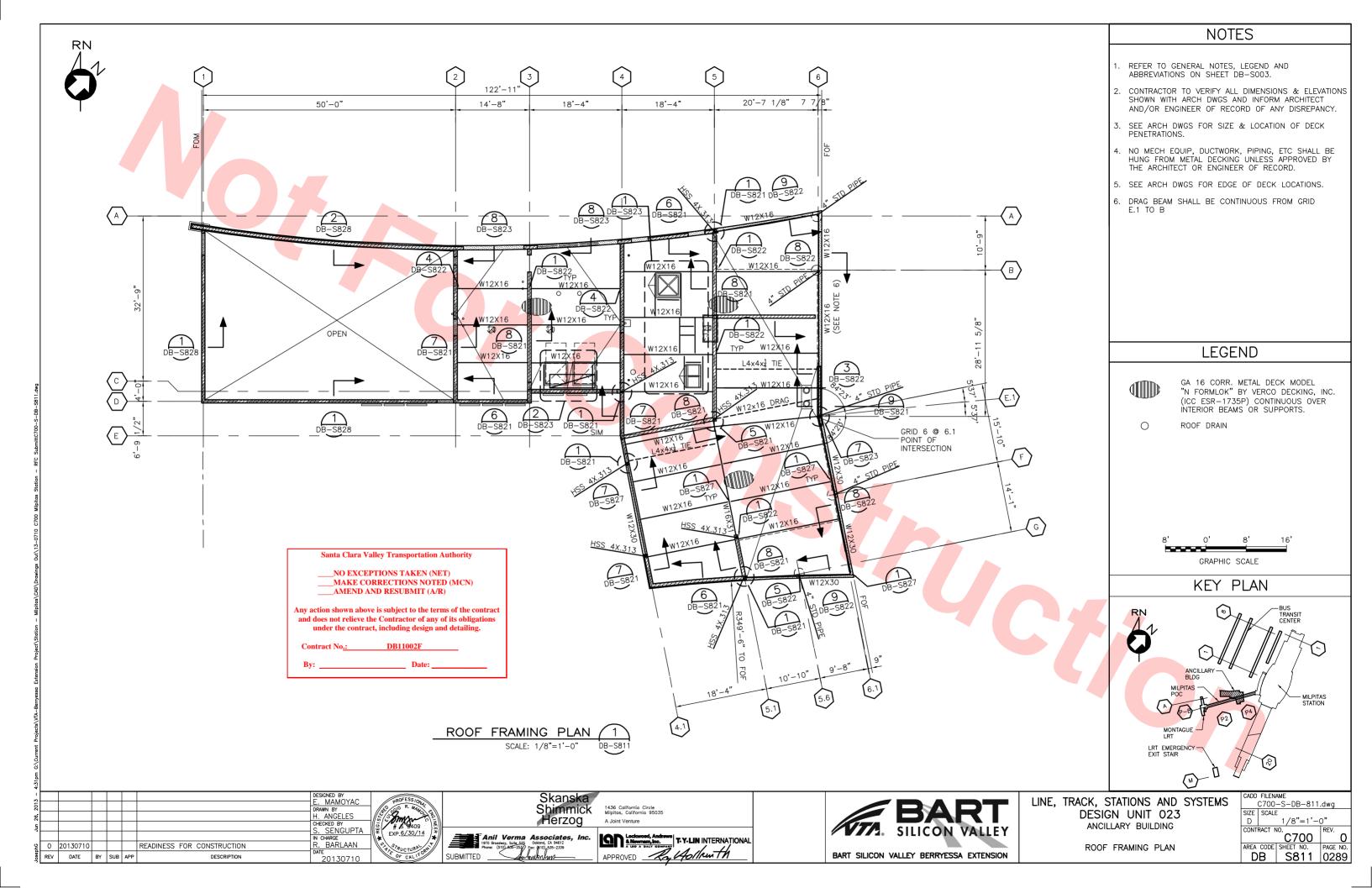
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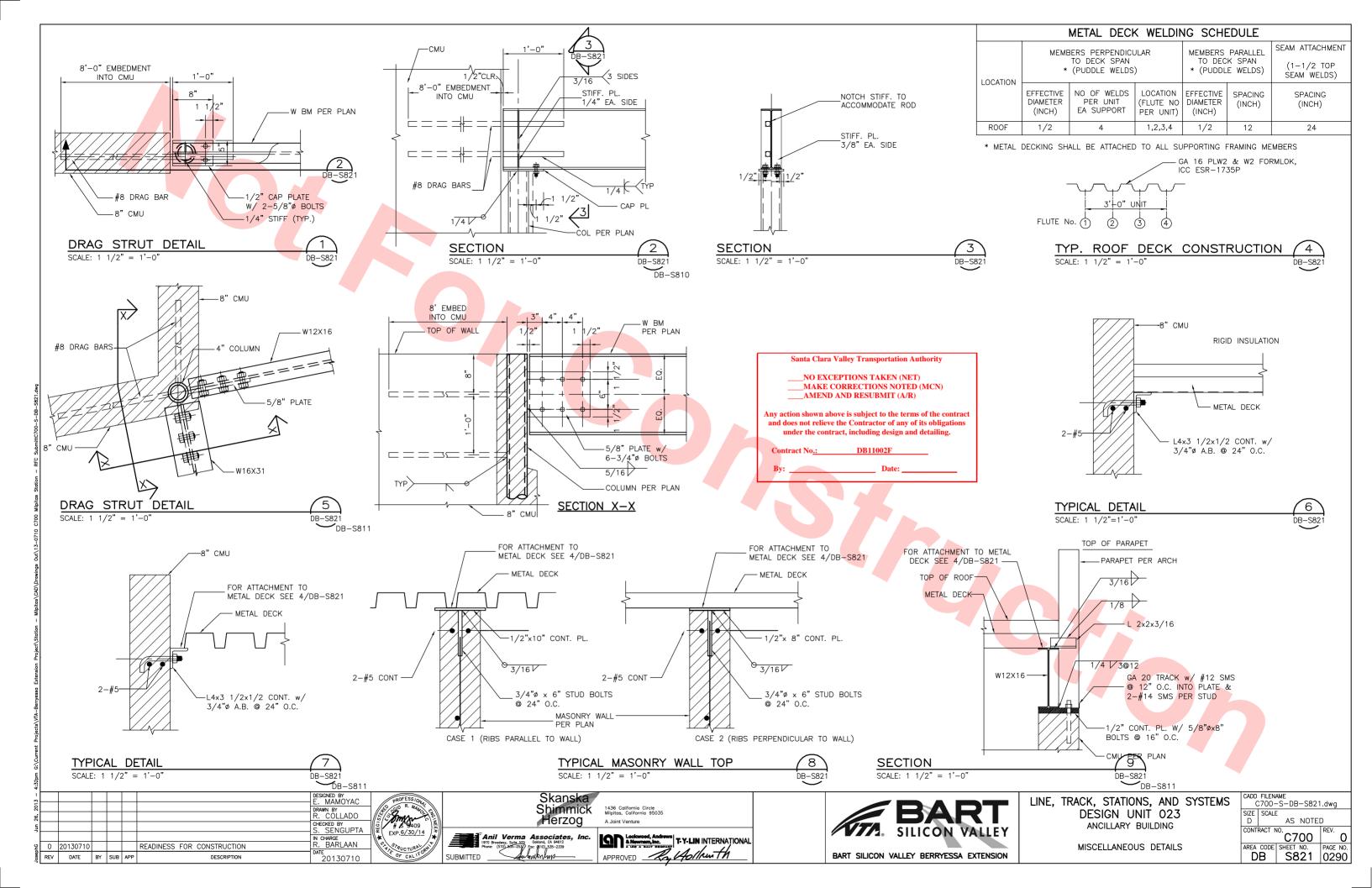
Lockwood, Andrews & Nowman, Inc.

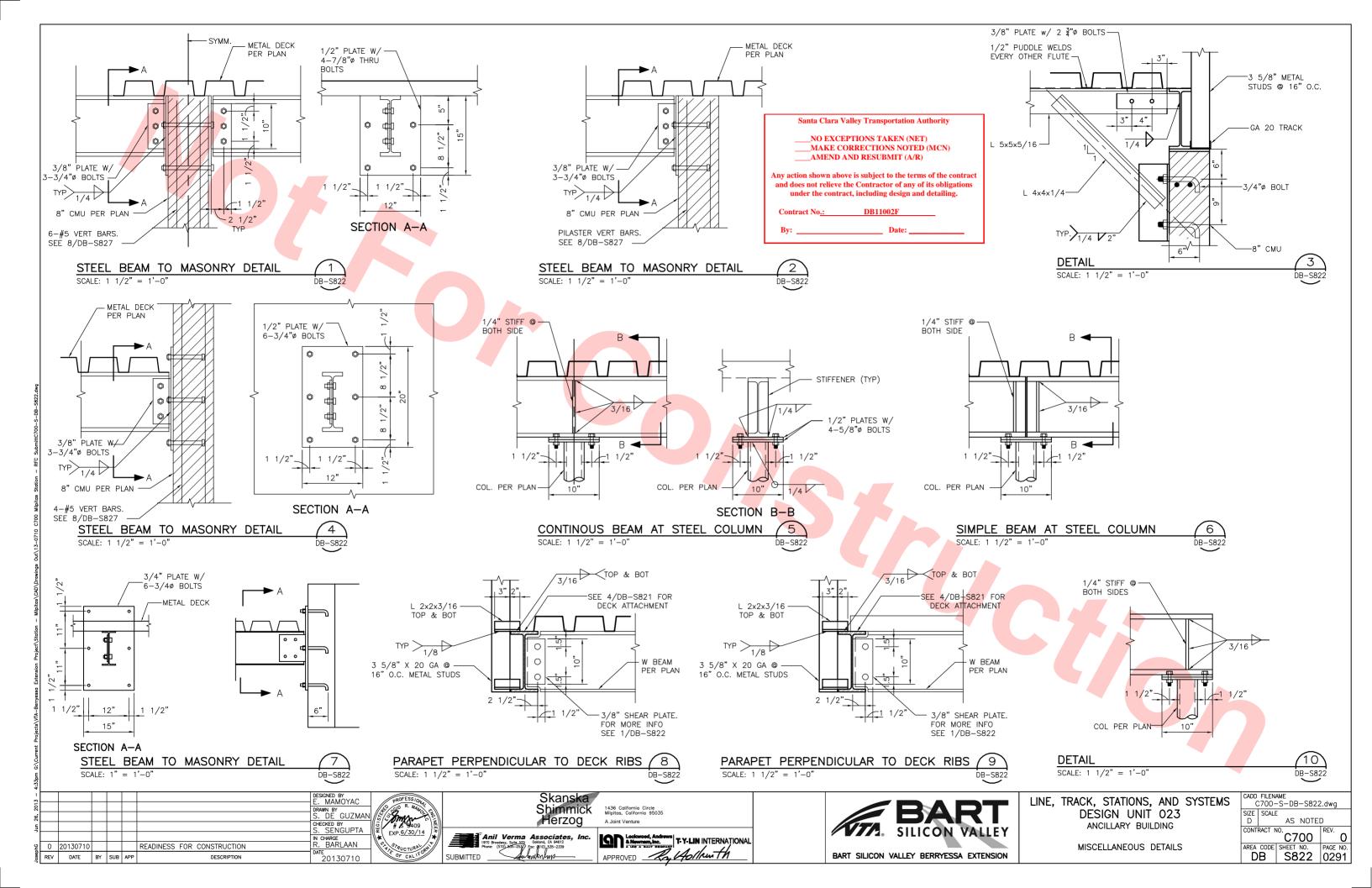
8. Nowman, Inc.

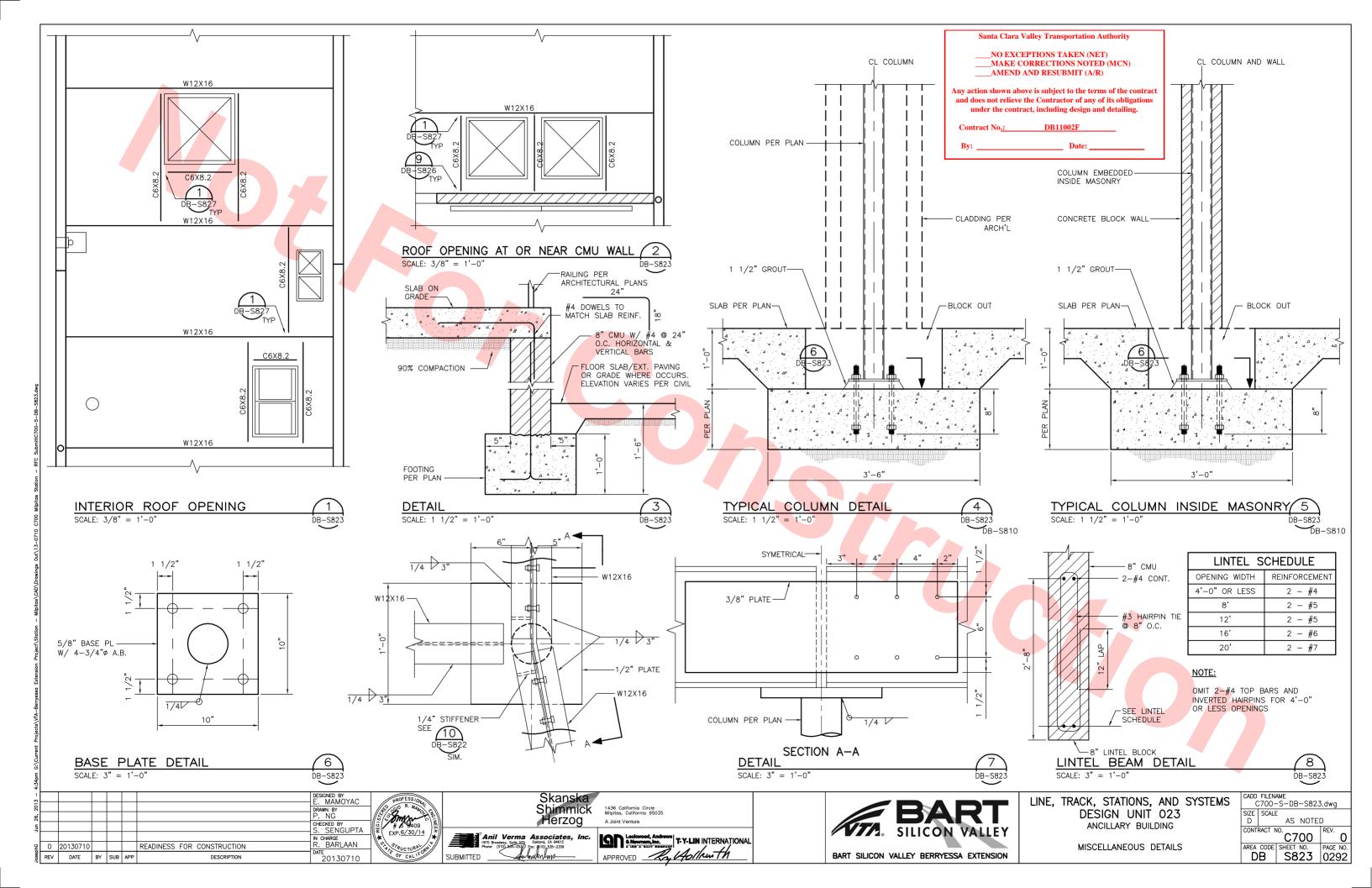
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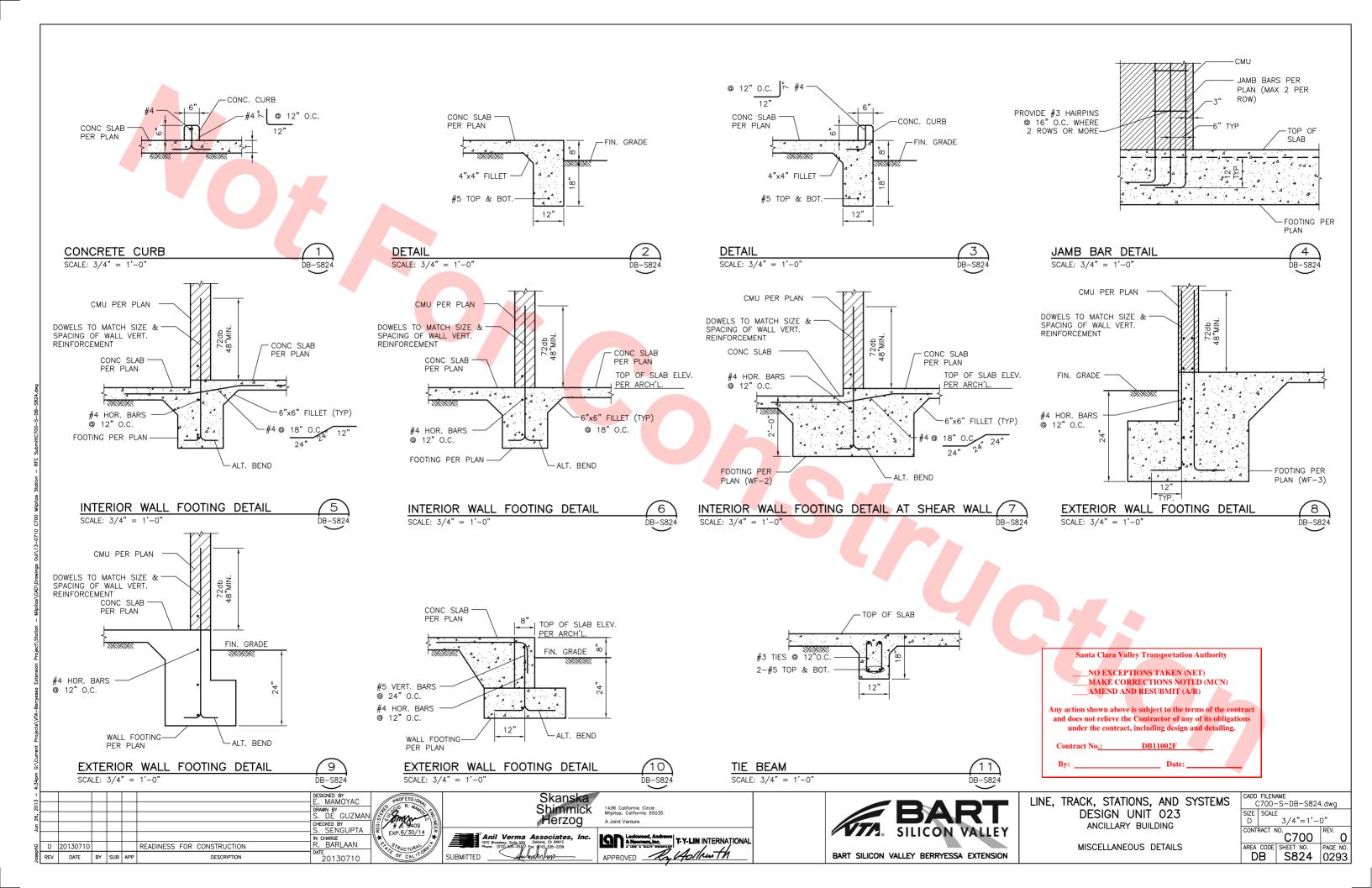
BART SILICON VALLEY BERRYESSA EXTENSION

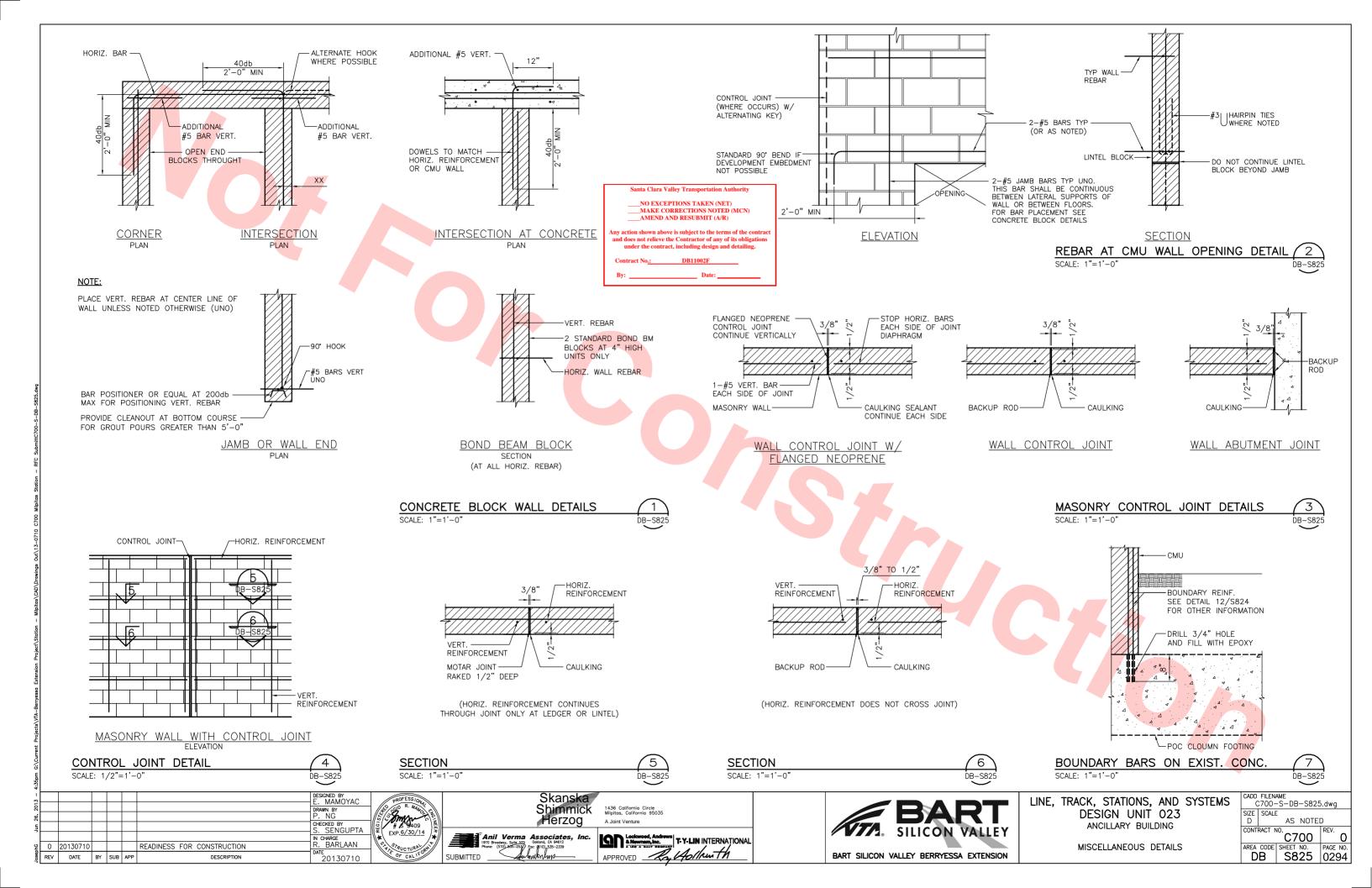


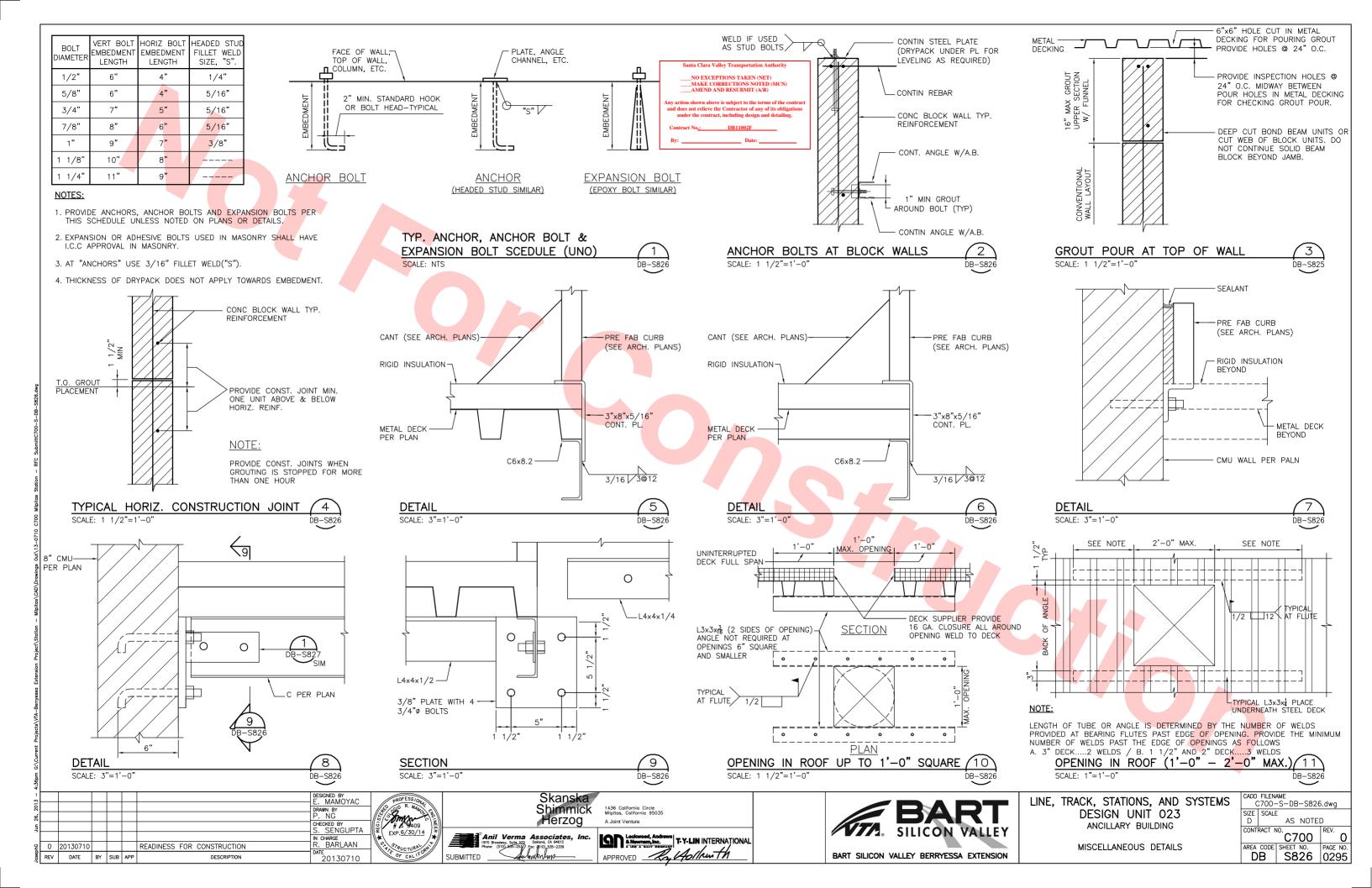


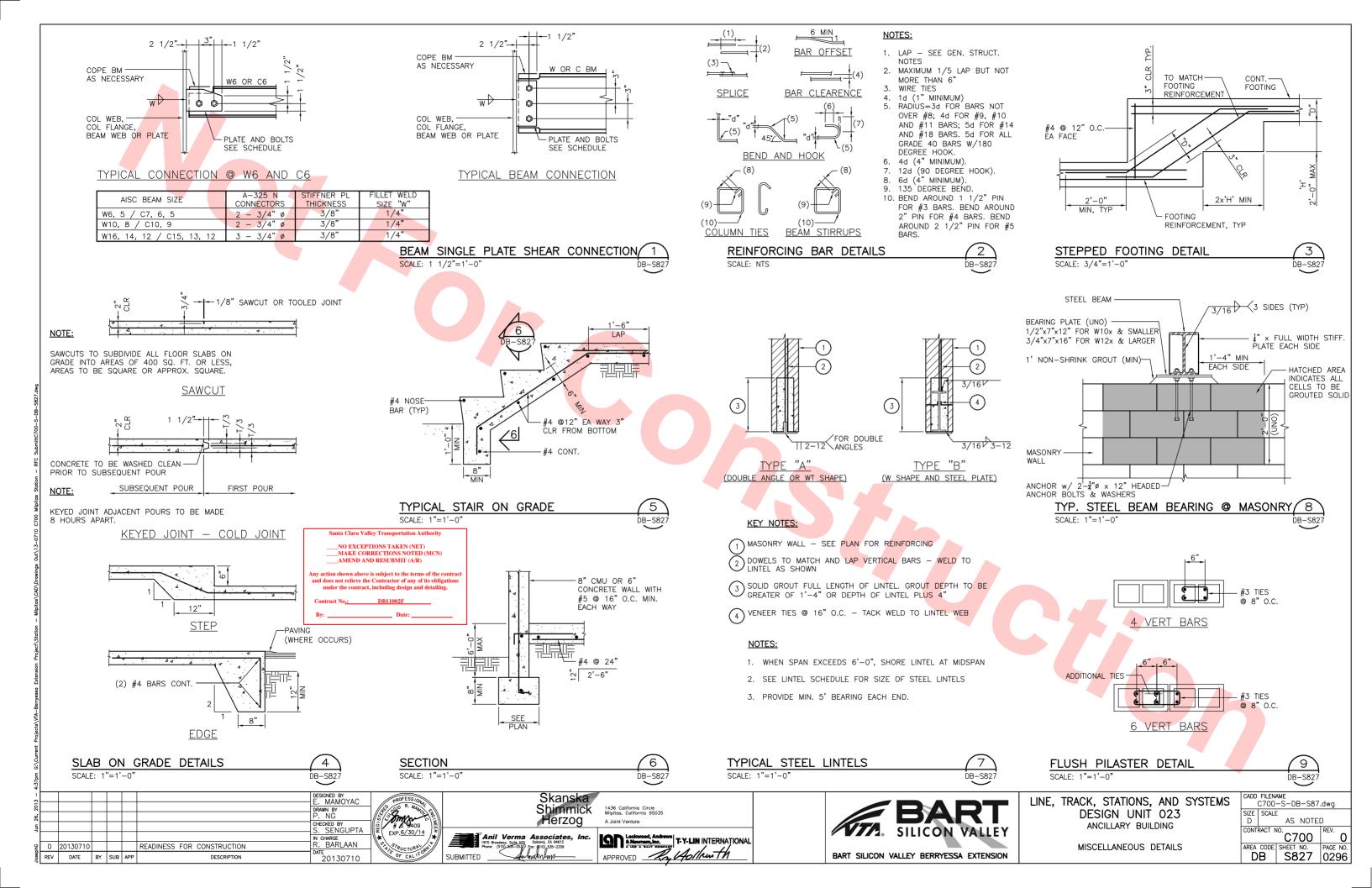


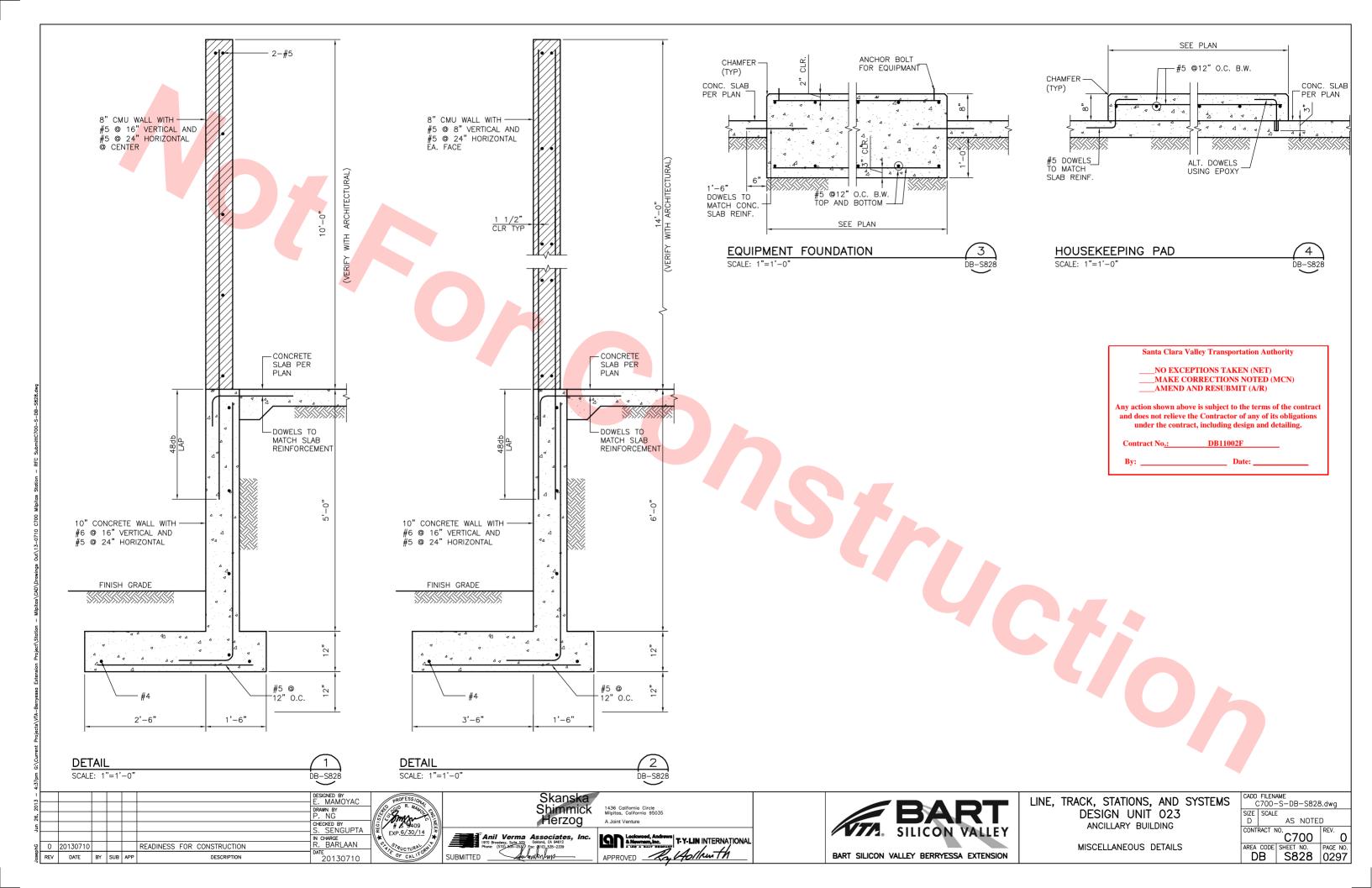


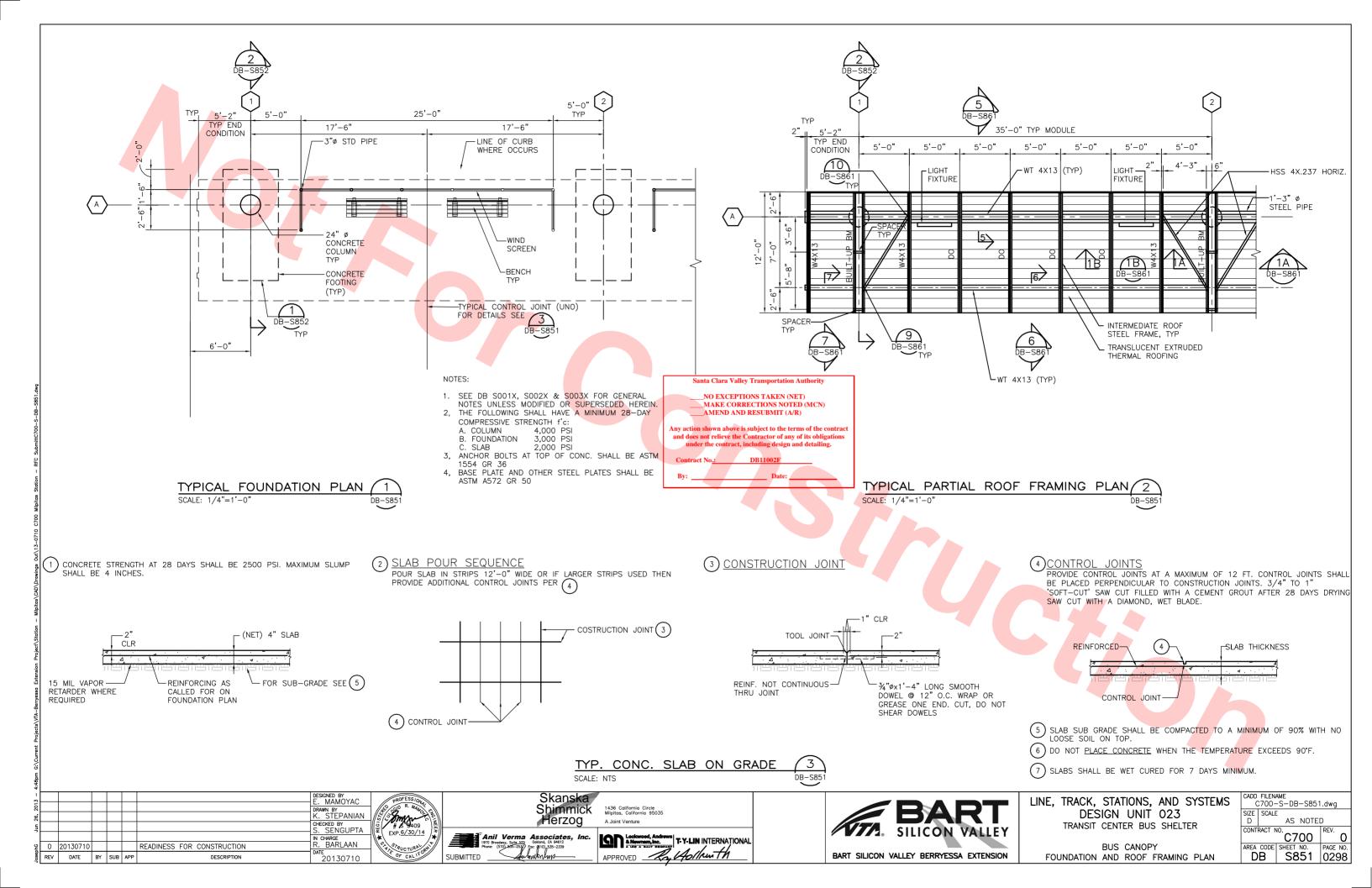


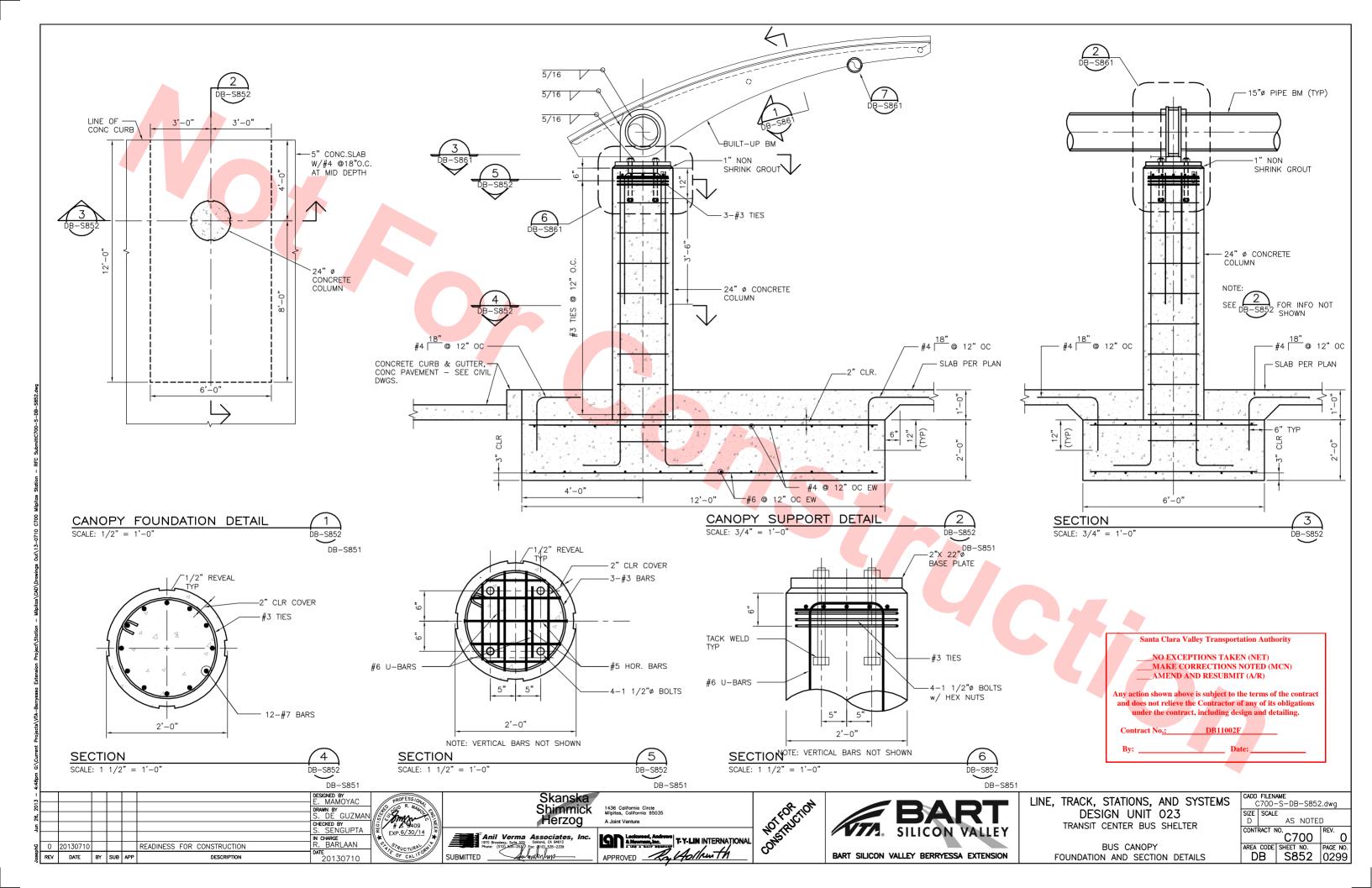


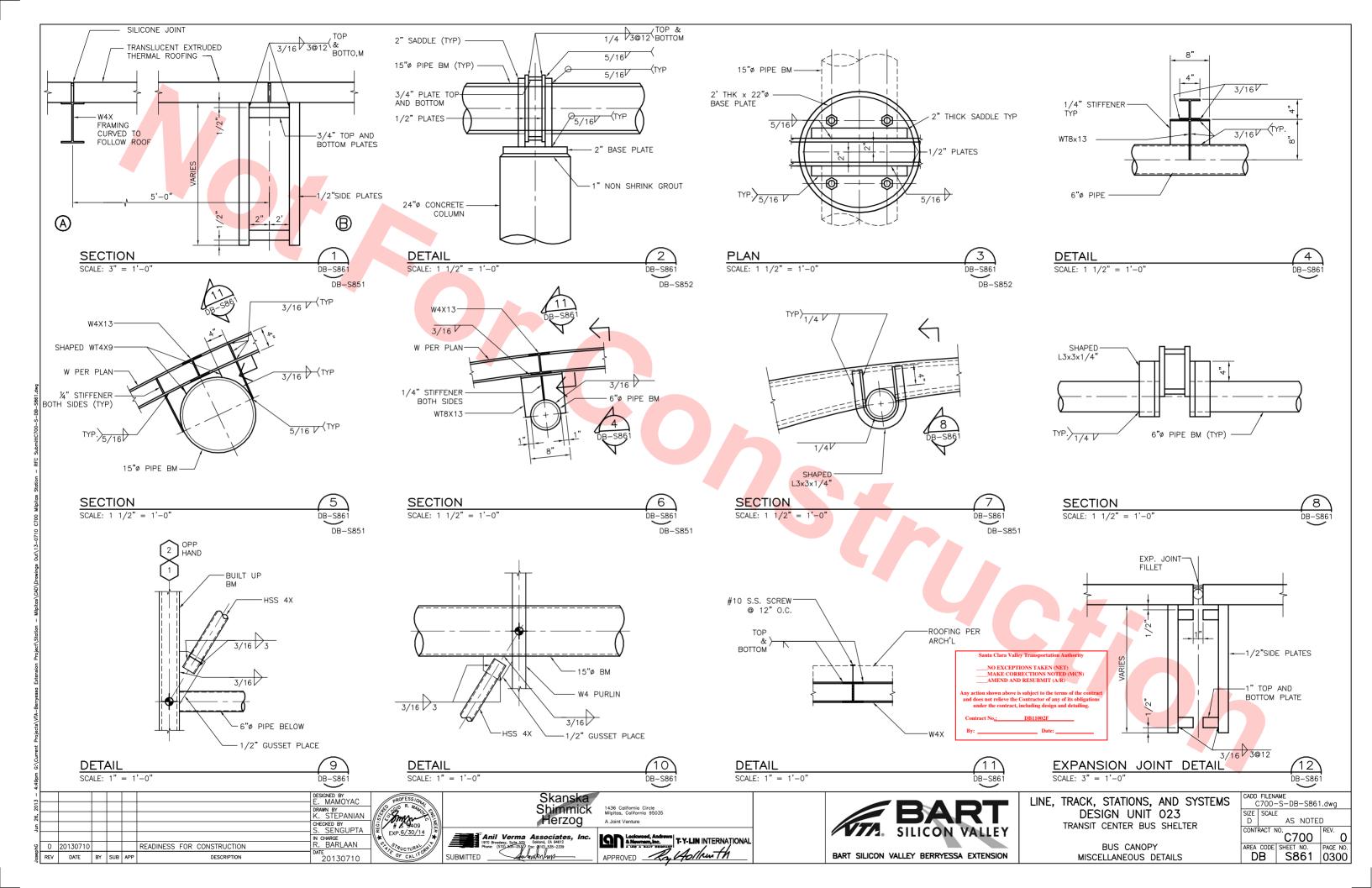


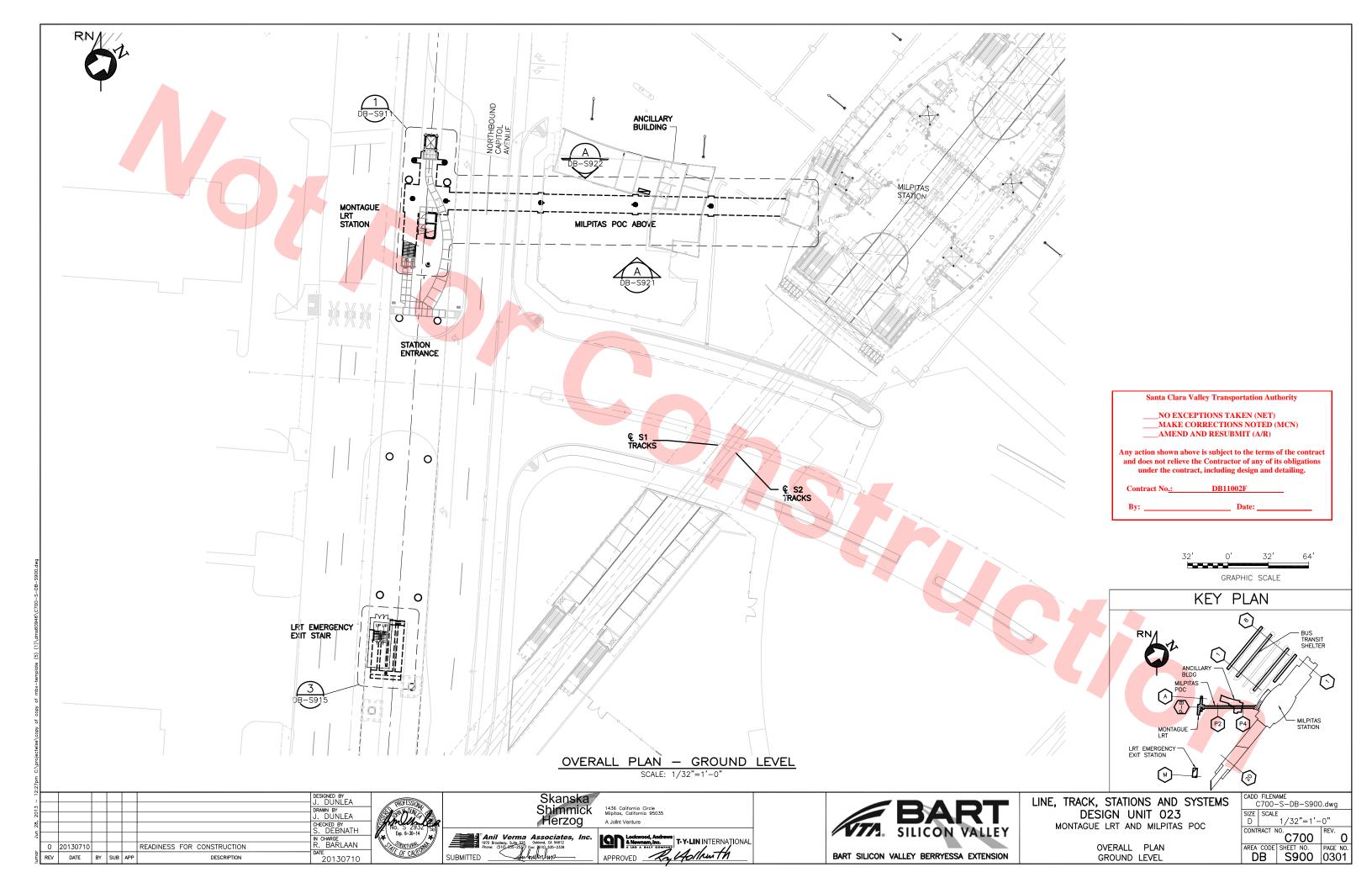


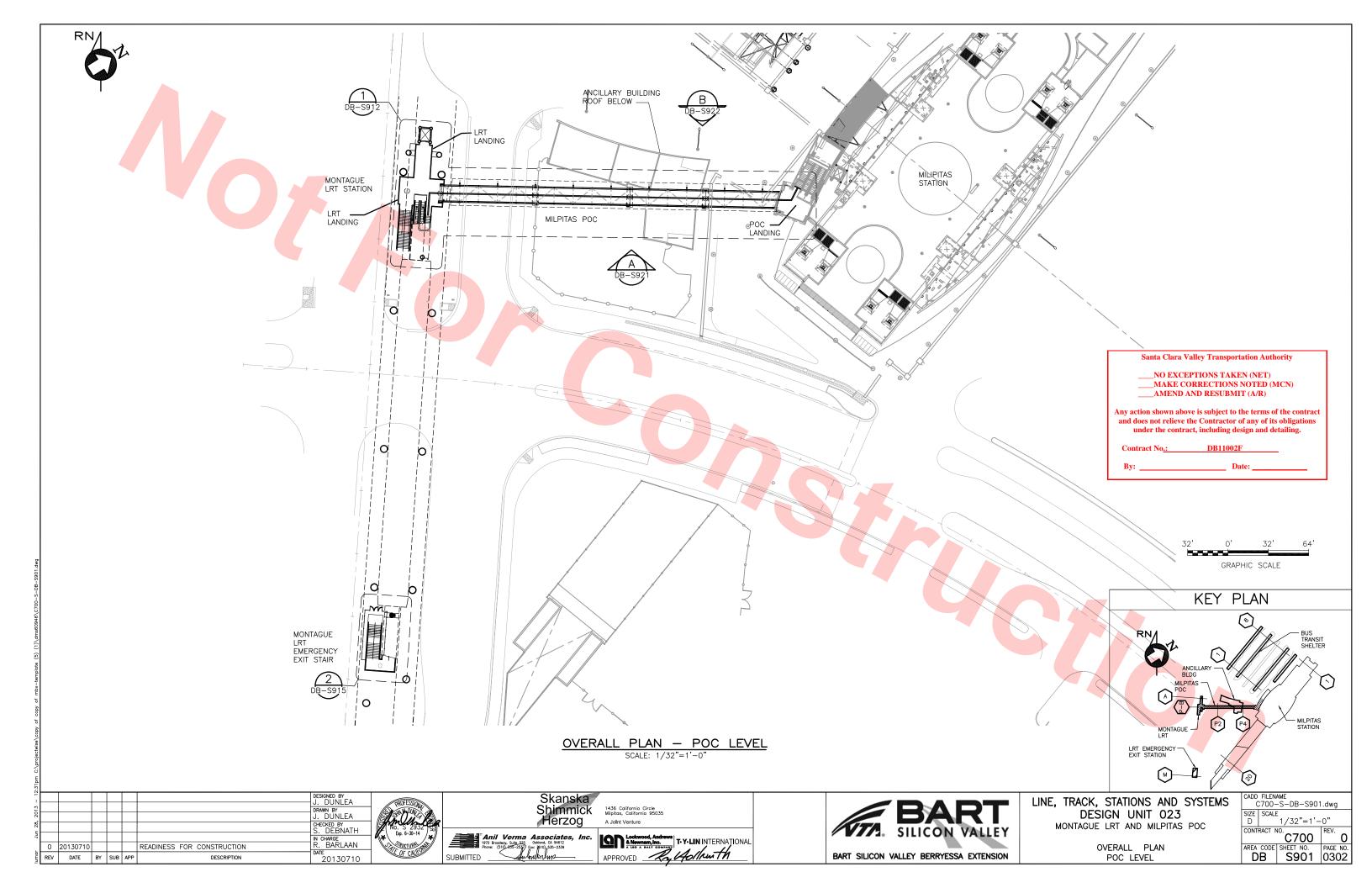


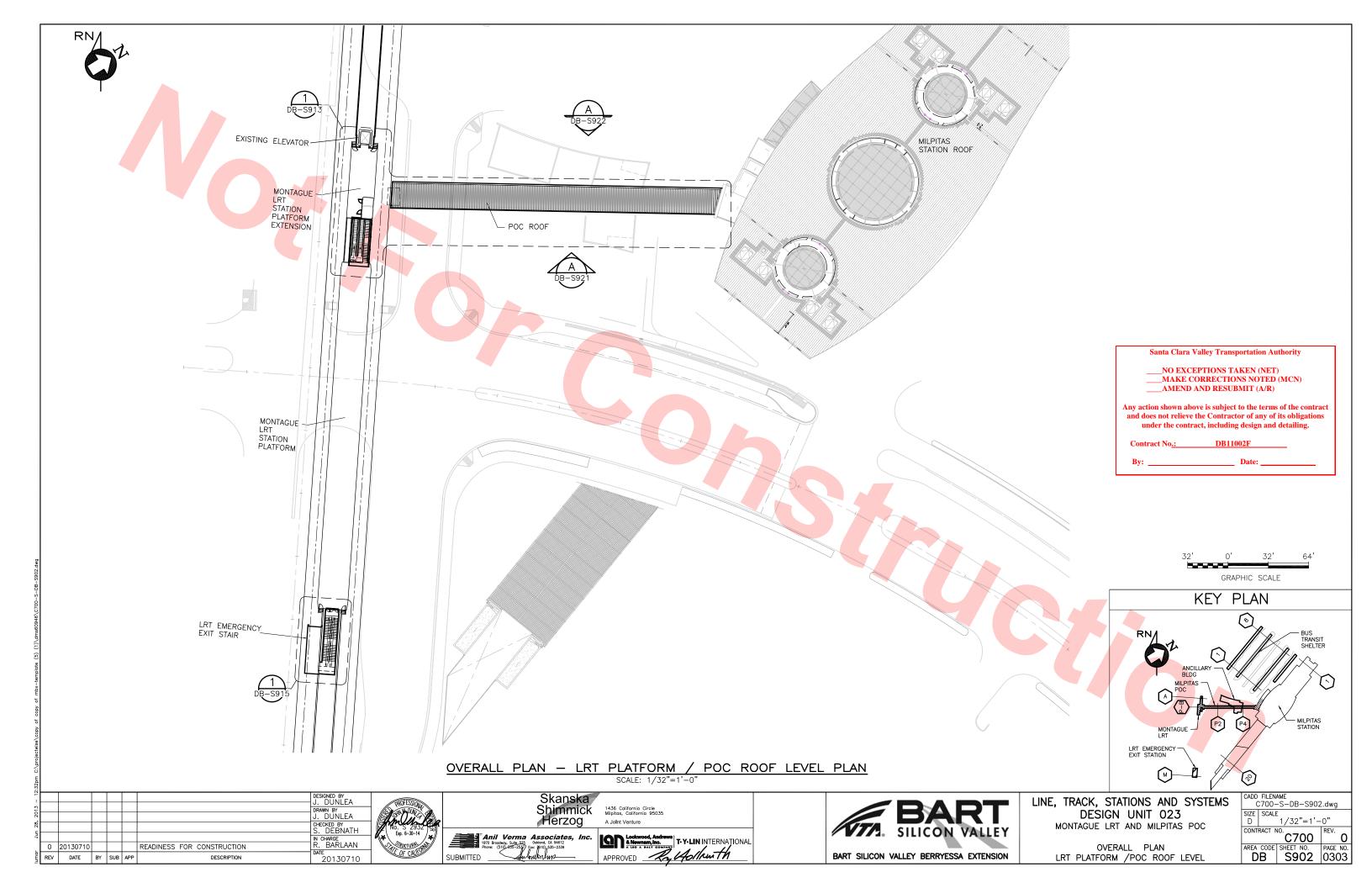


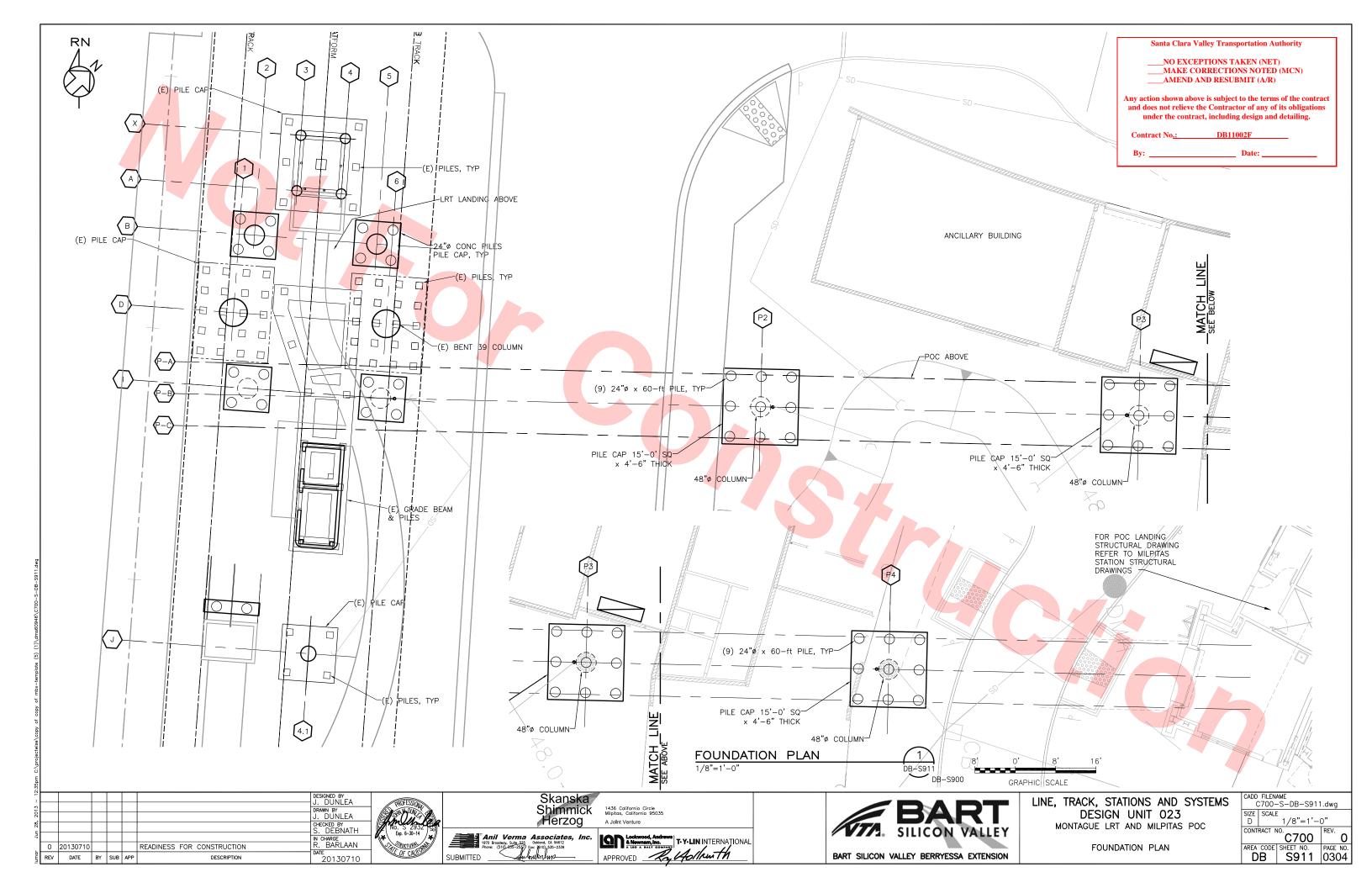


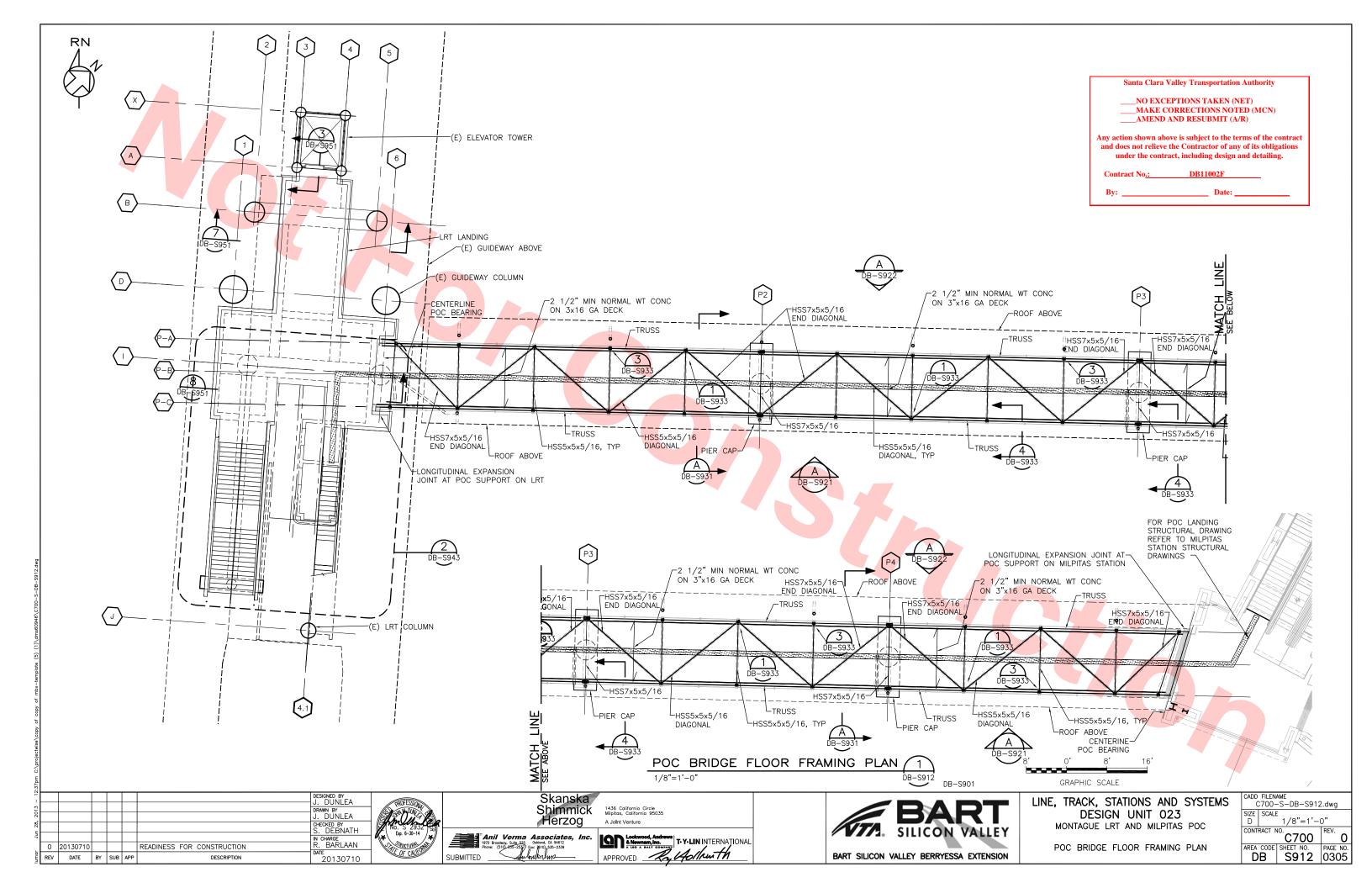


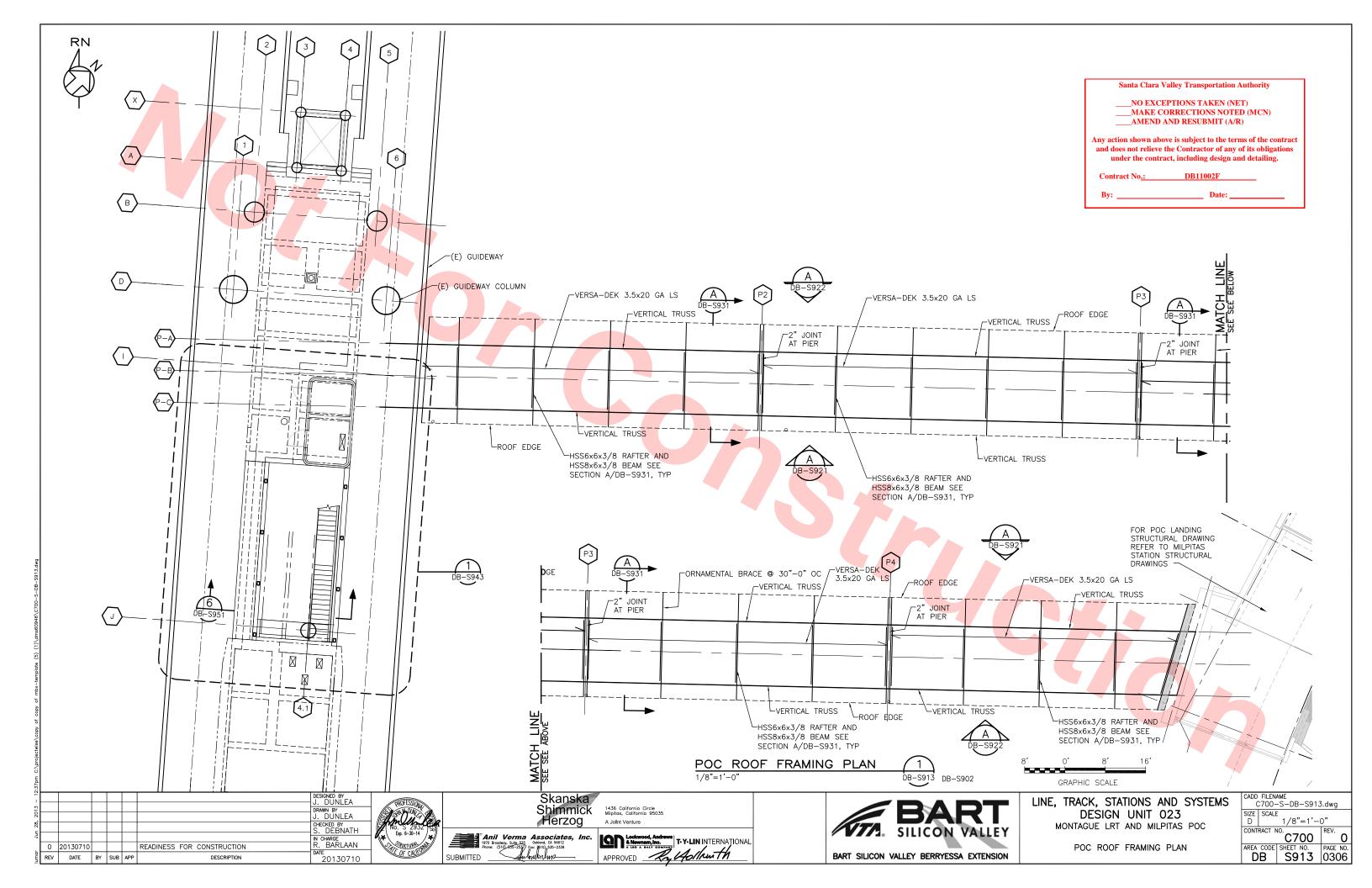


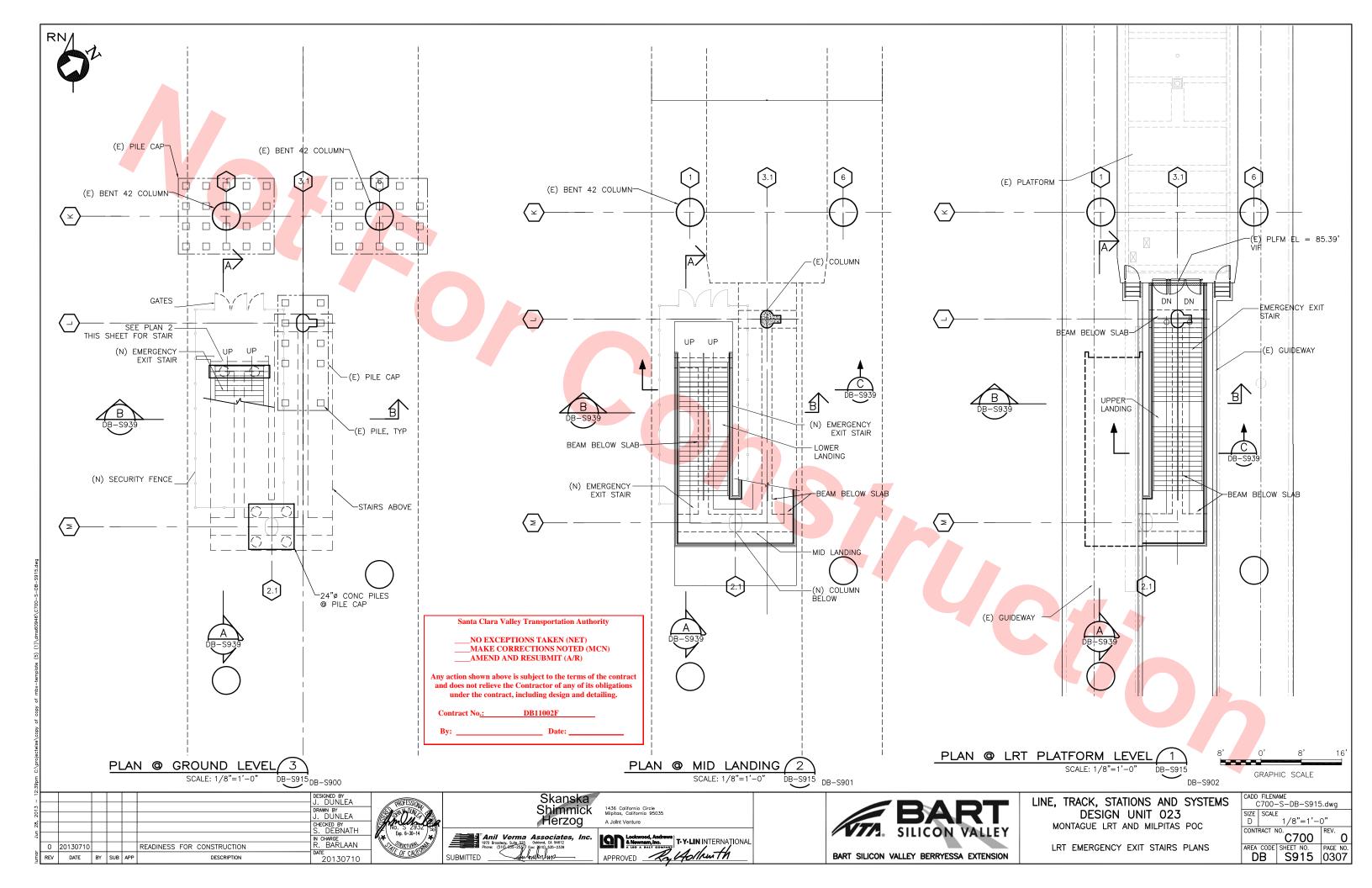


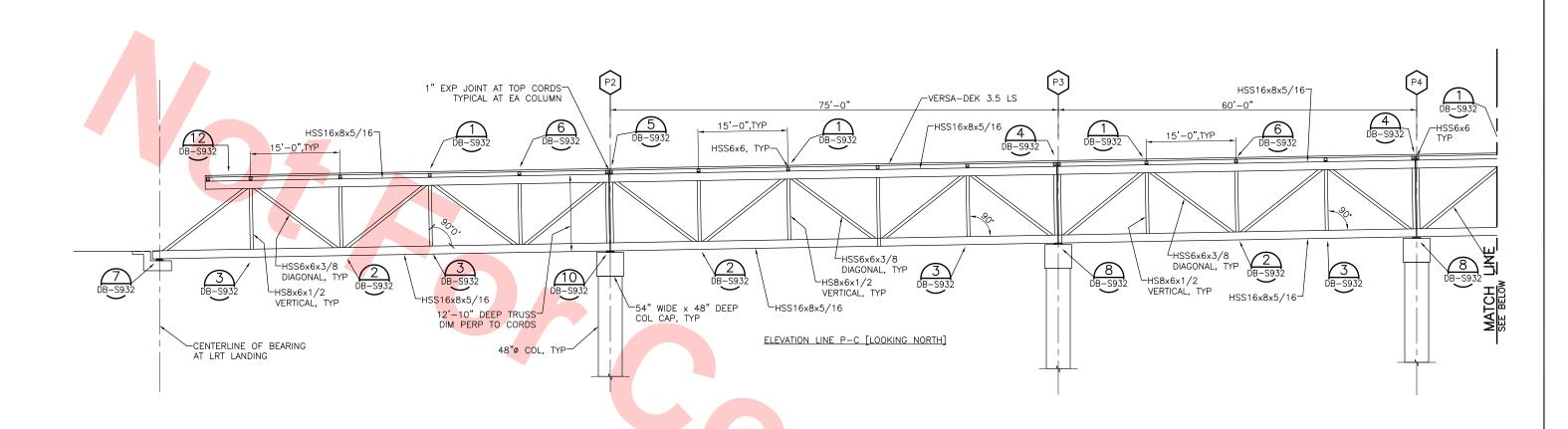


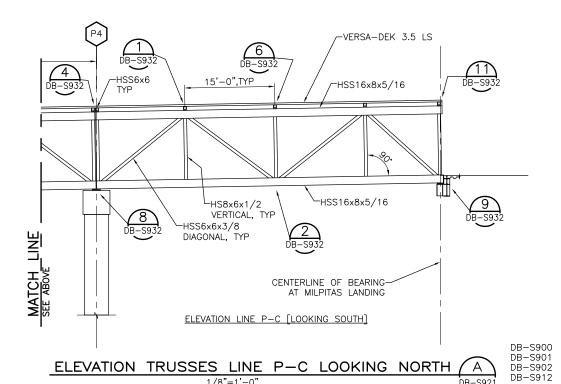






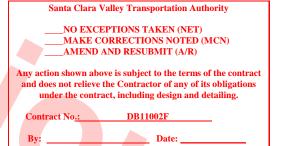






NOTES:

1. TRUSS CONNECTION DETAILS ON THIS SHEET ARE DRAWN OPPOSITE HAND ON DB-S932.



GRAPHIC SCALE

SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT AND MILPITAS POC

ELEVATION TRUSSES LINE P-C

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ゔ							IN CHARGE
	0	20130710				READINESS FOR CONSTRUCTION	R. BARLAAN
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Skanska Shimmick Herzog Anil Verma Associates, Inc. 1970 Broodway, Suite, 525 Ookland, CA 94812 Phone: (510), 655-2537 Fax: (610), 655-2339

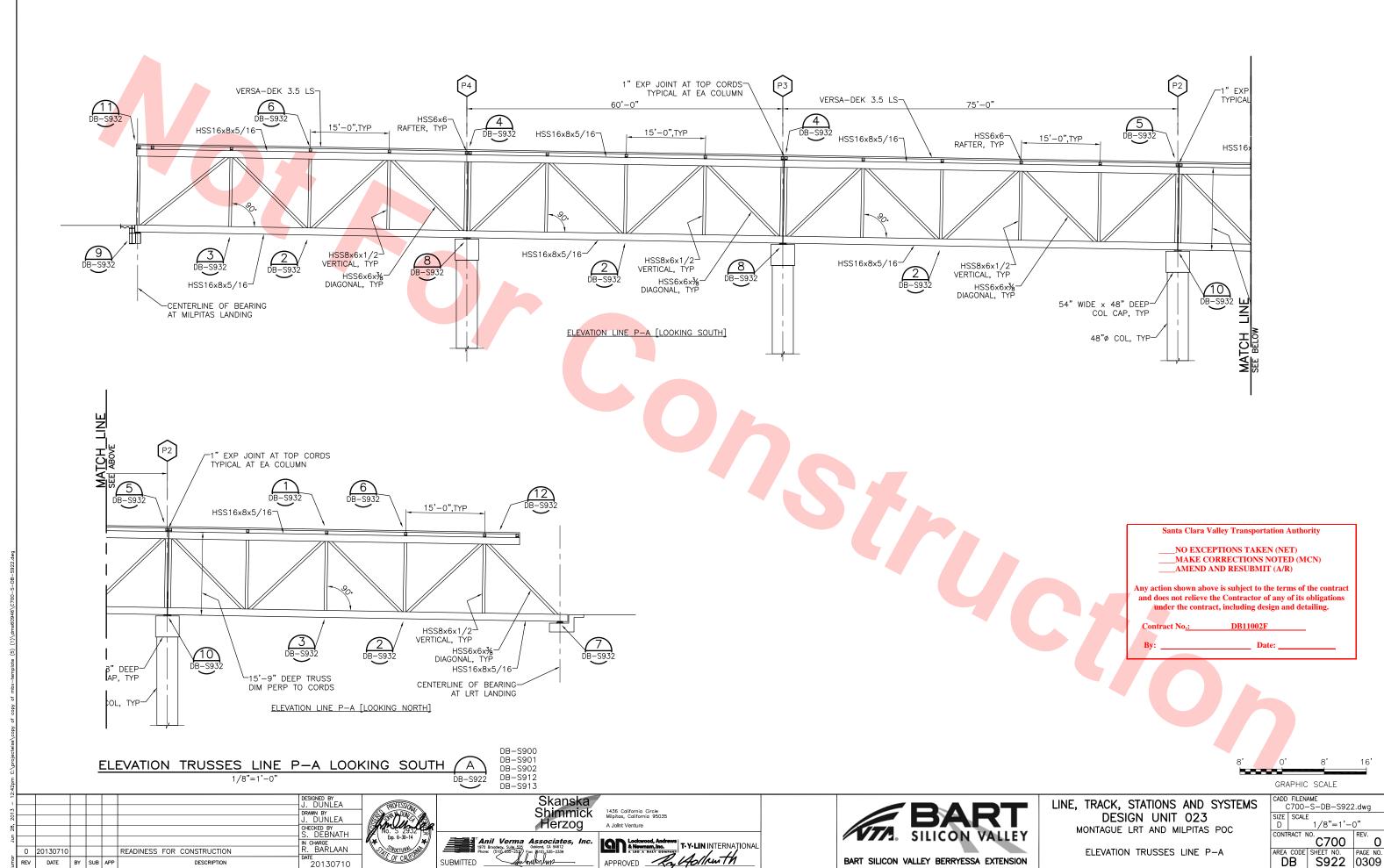
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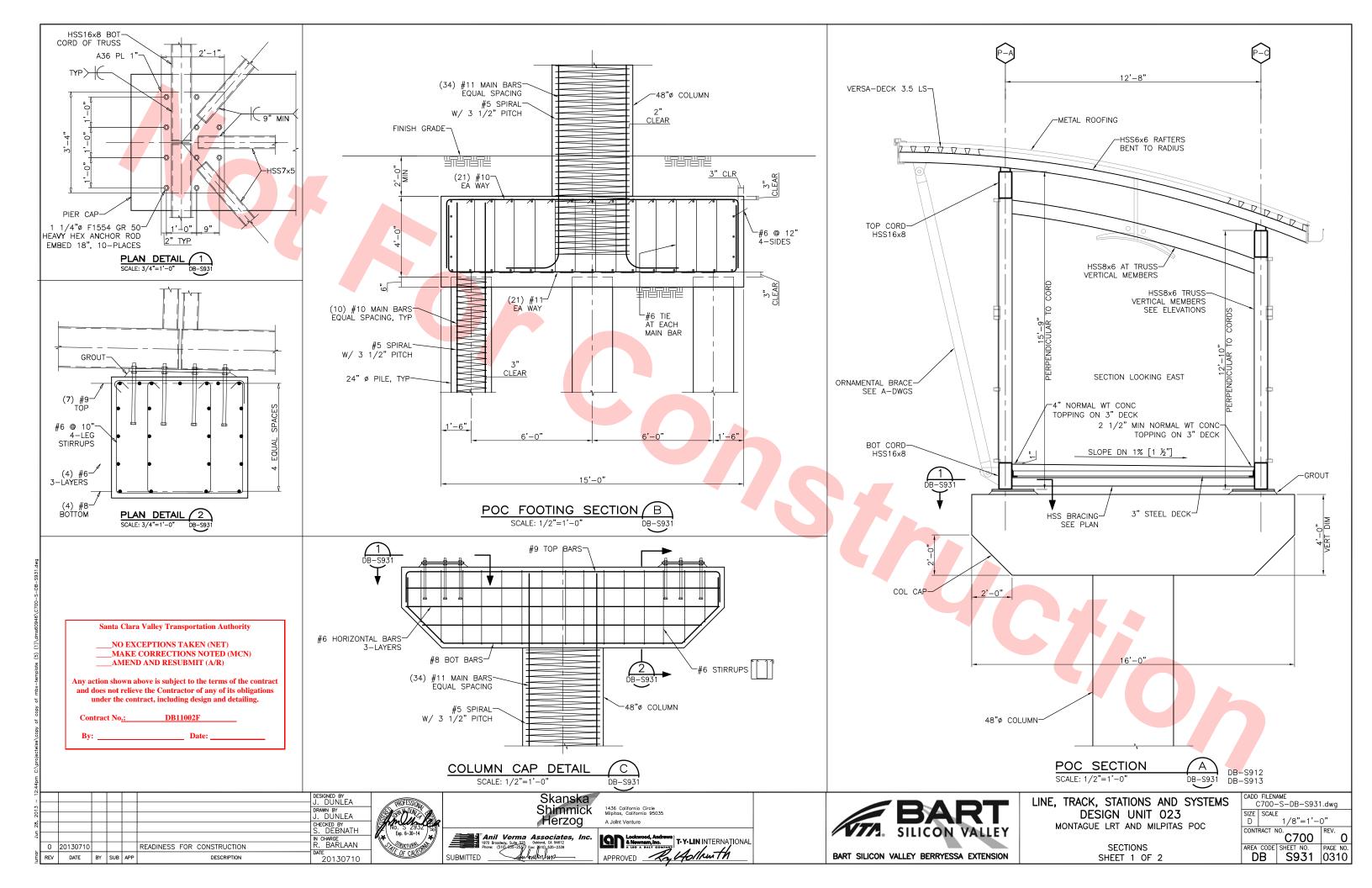
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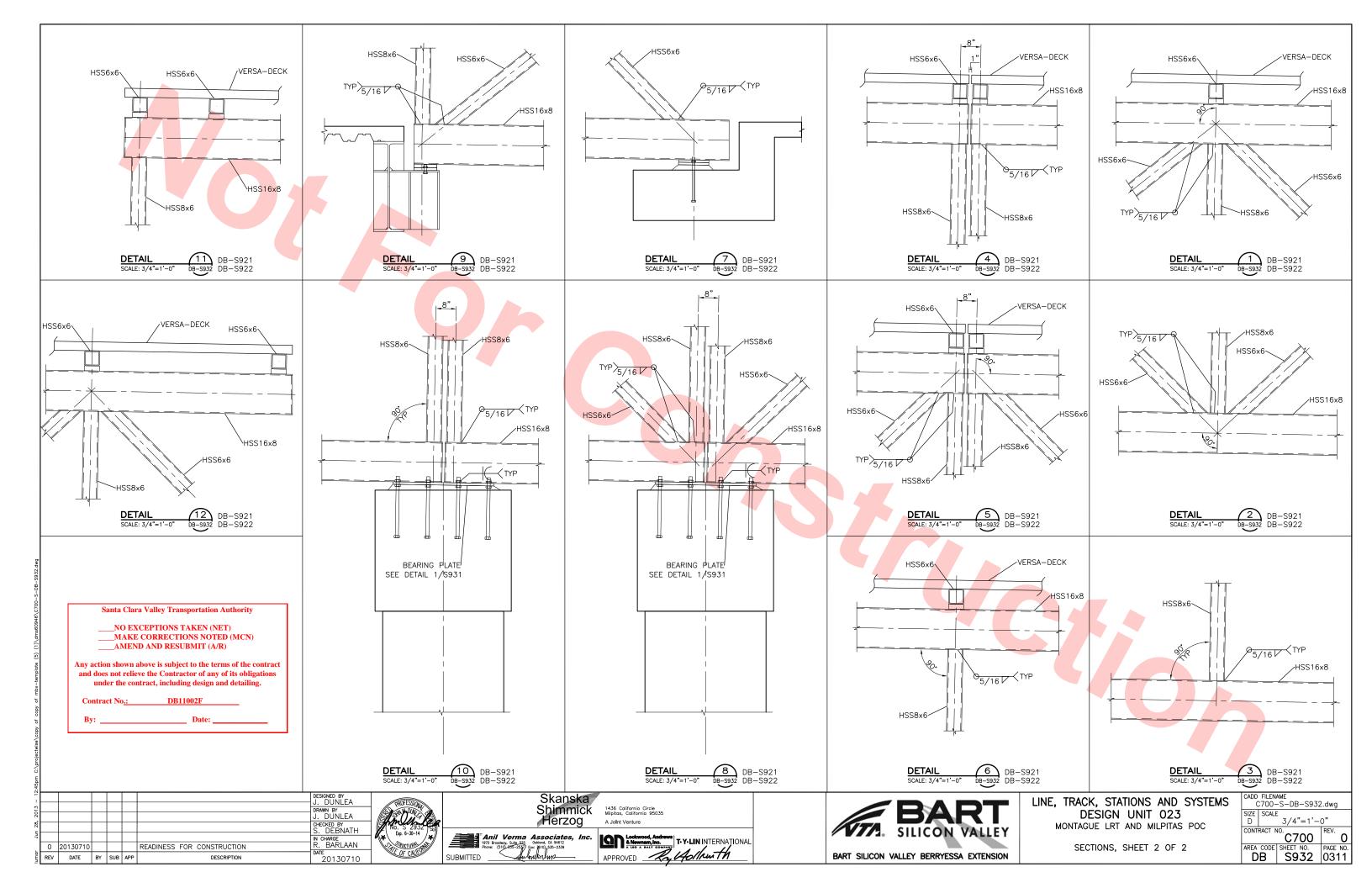
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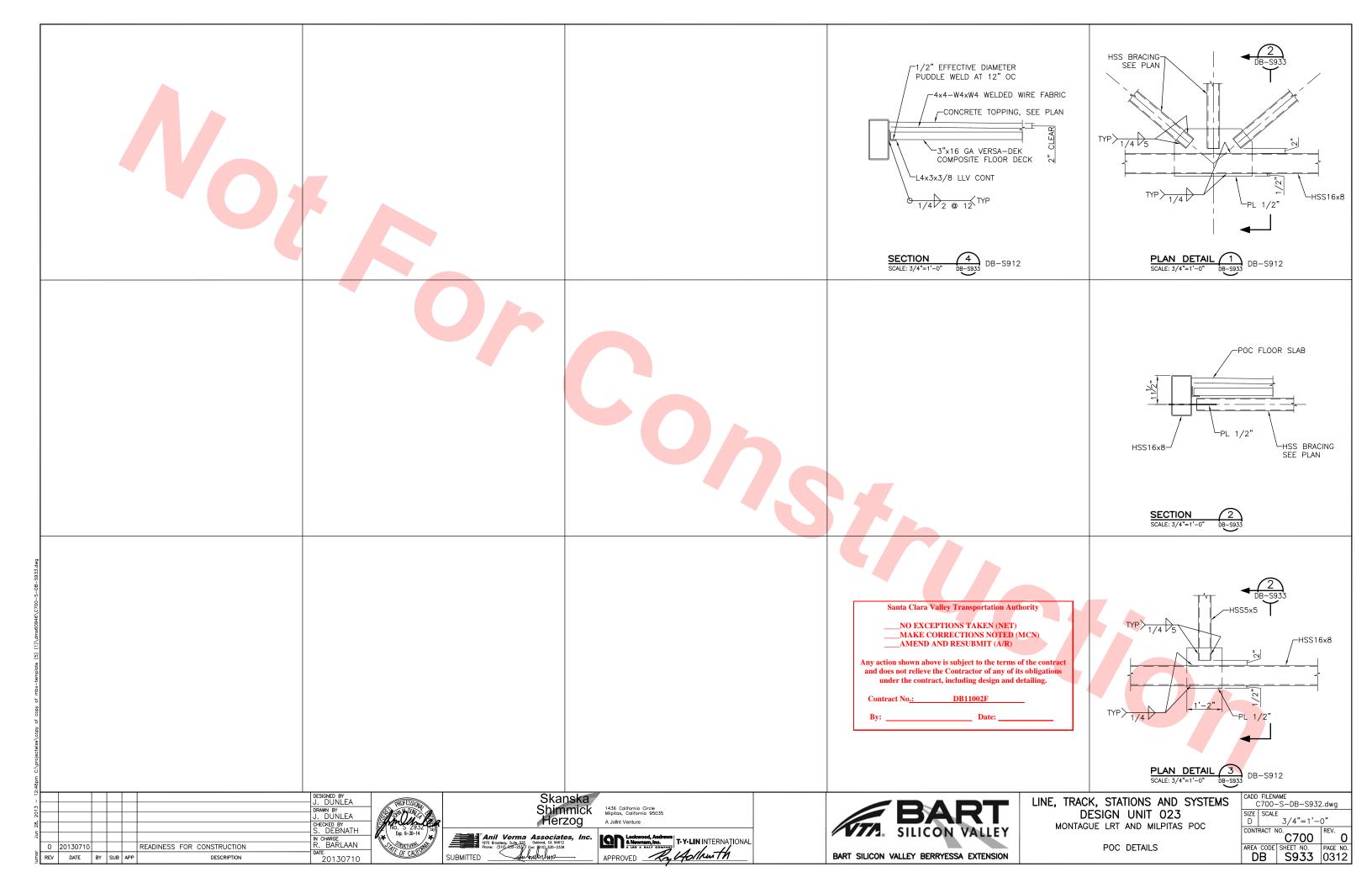
1436 California Circle Milpitas, California 95035 A Joint Venture

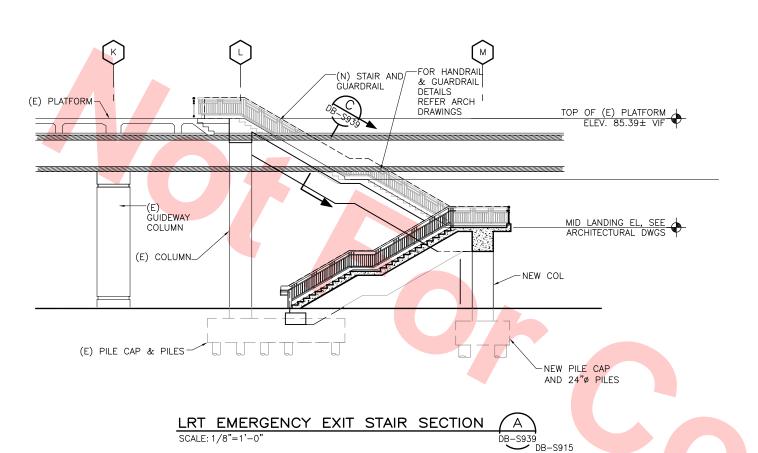


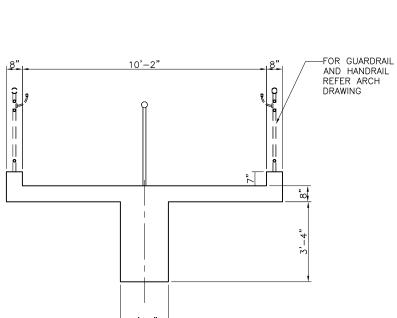




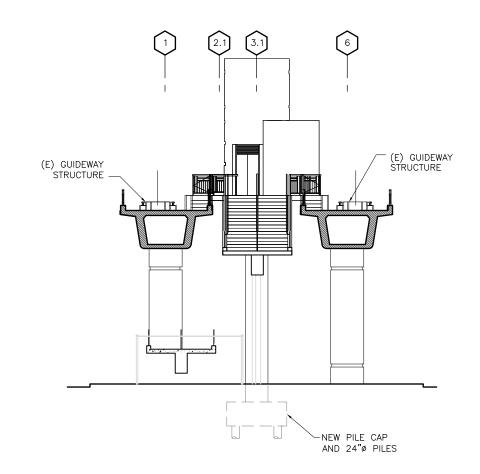






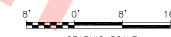






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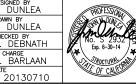
> Santa Clara Valley Transportation Authority NO EXCEPTIONS TAKEN (NET) MAKE CORRECTIONS NOTED (MCN) AMEND AND RESUBMIT (A/R) Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations der the contract, including design and detailing.



GRAPHIC SCALE

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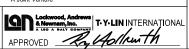
REV DATE BY SUB APP



SUBMITTED



1436 California Circle Milpitas, California 95035 A Joint Venture

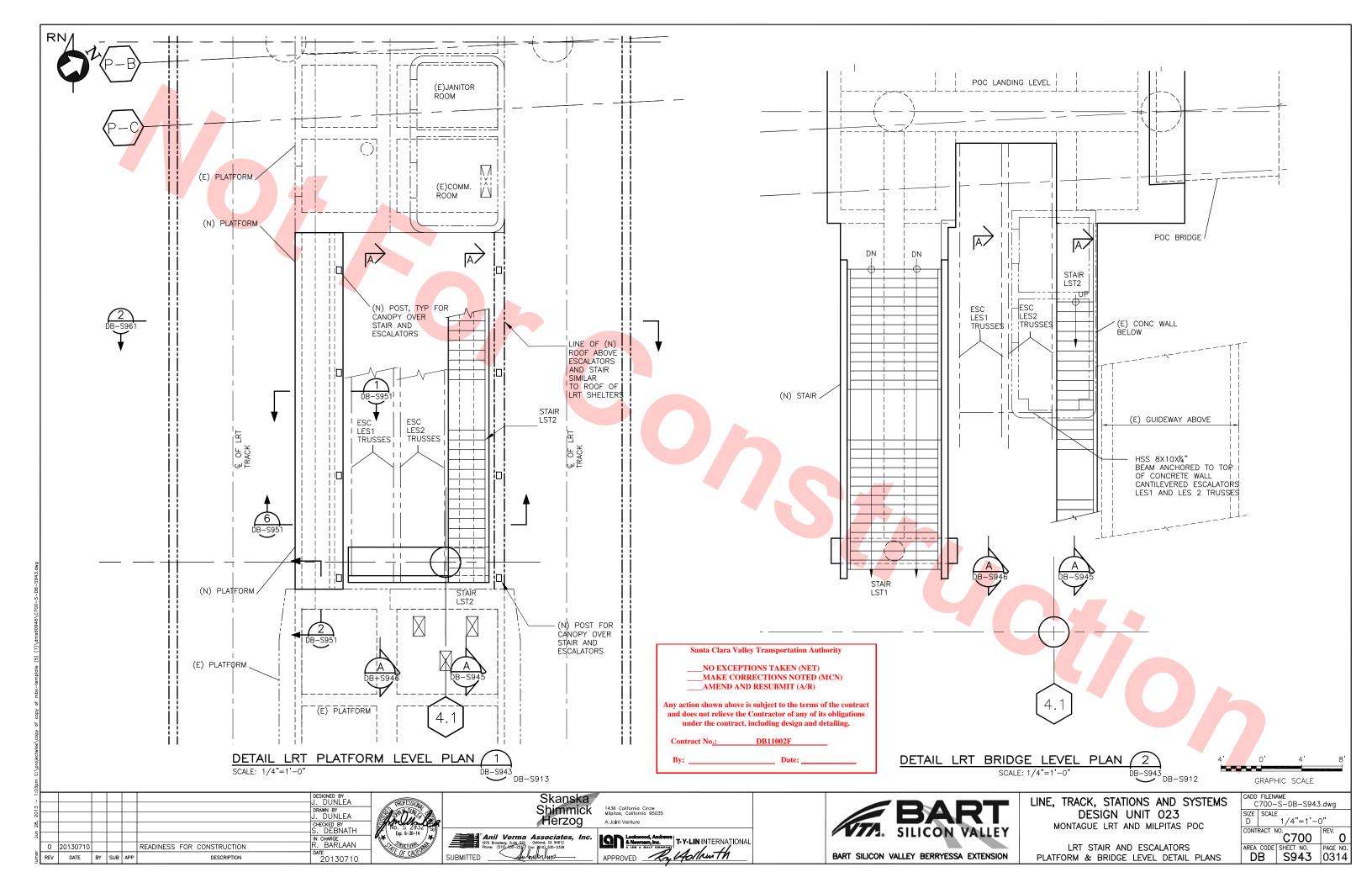


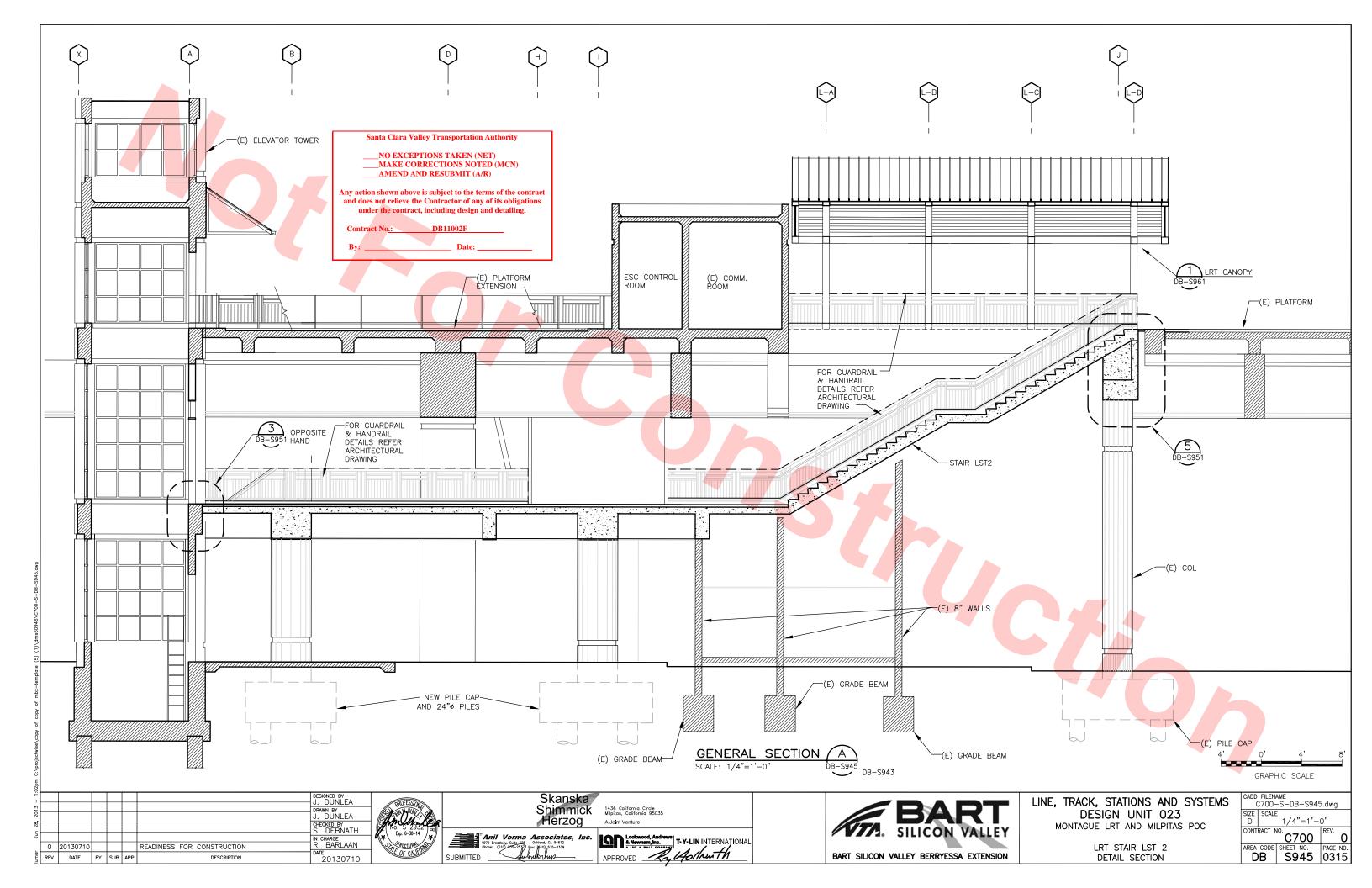


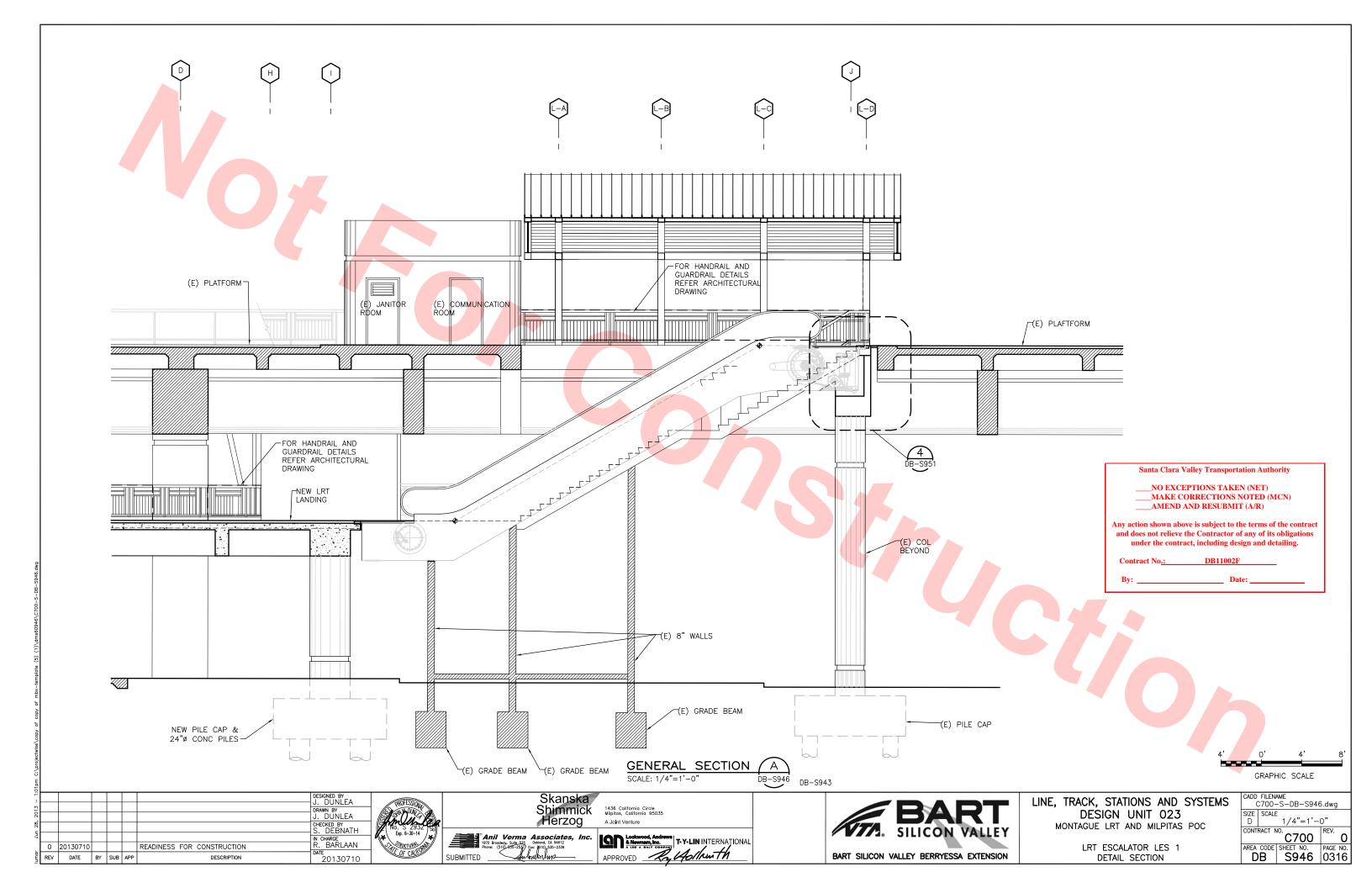
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MONTAGUE LRT AND MILPITAS POC

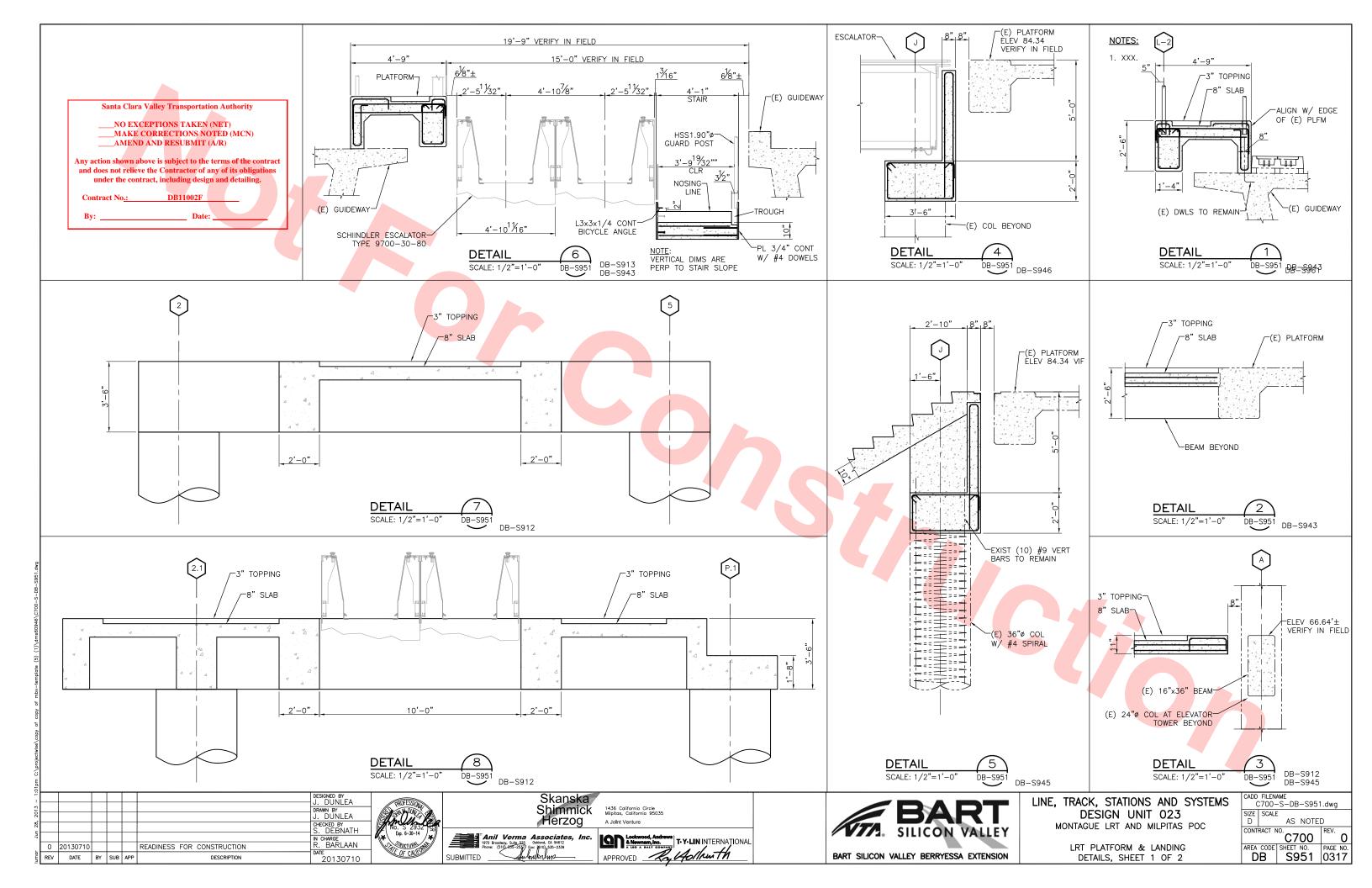
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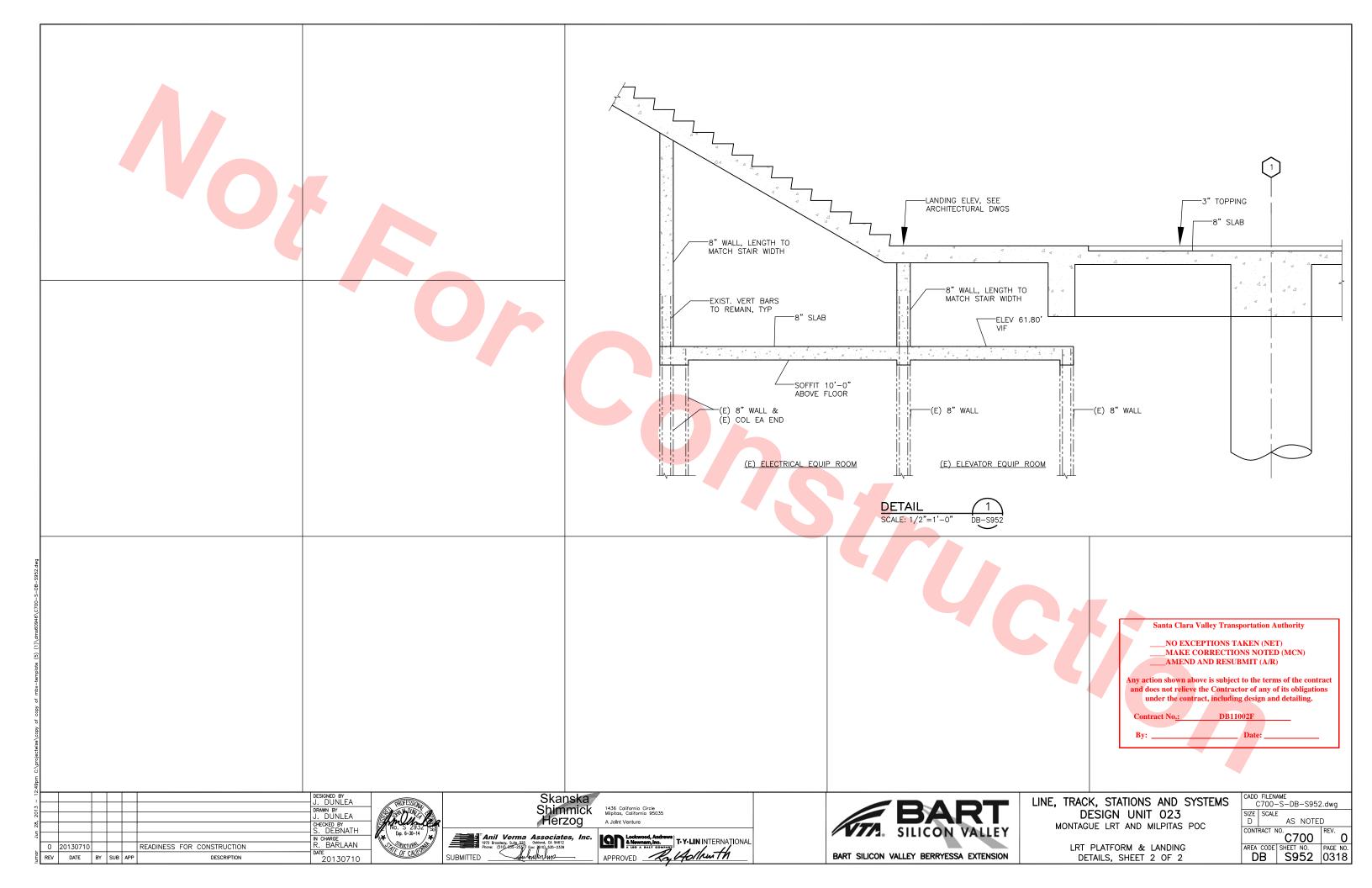
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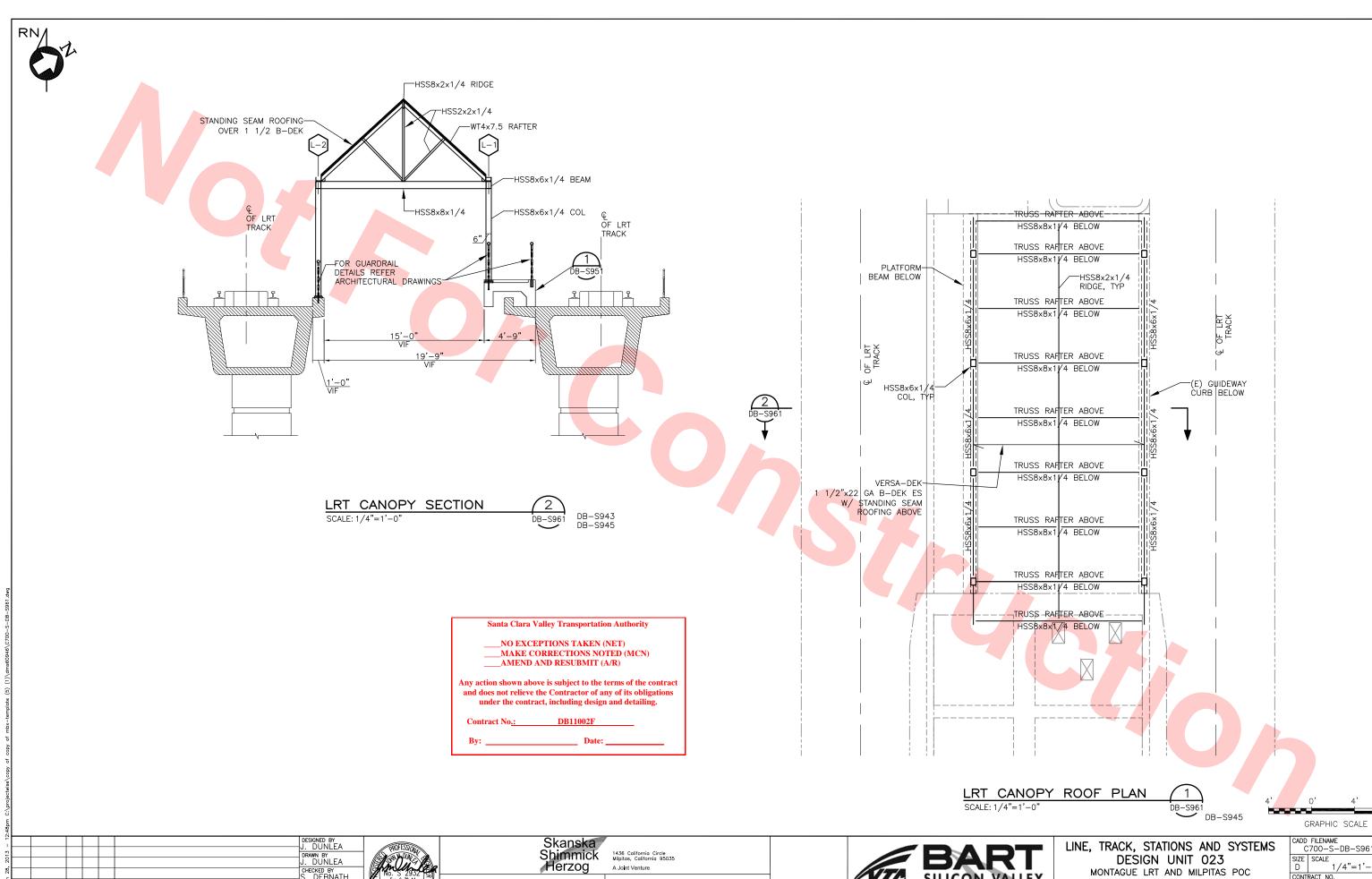












CHECKED BY S. DEBNATH IN CHARGE R. BARLAAN 0 20130710 READINESS FOR CONSTRUCTION DATE 20130710 REV DATE BY SUB APP





SUBMITTED







NTAGUE	LRT	AND	MILPITAS	POC	
		CANO	PY ETAILS		

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