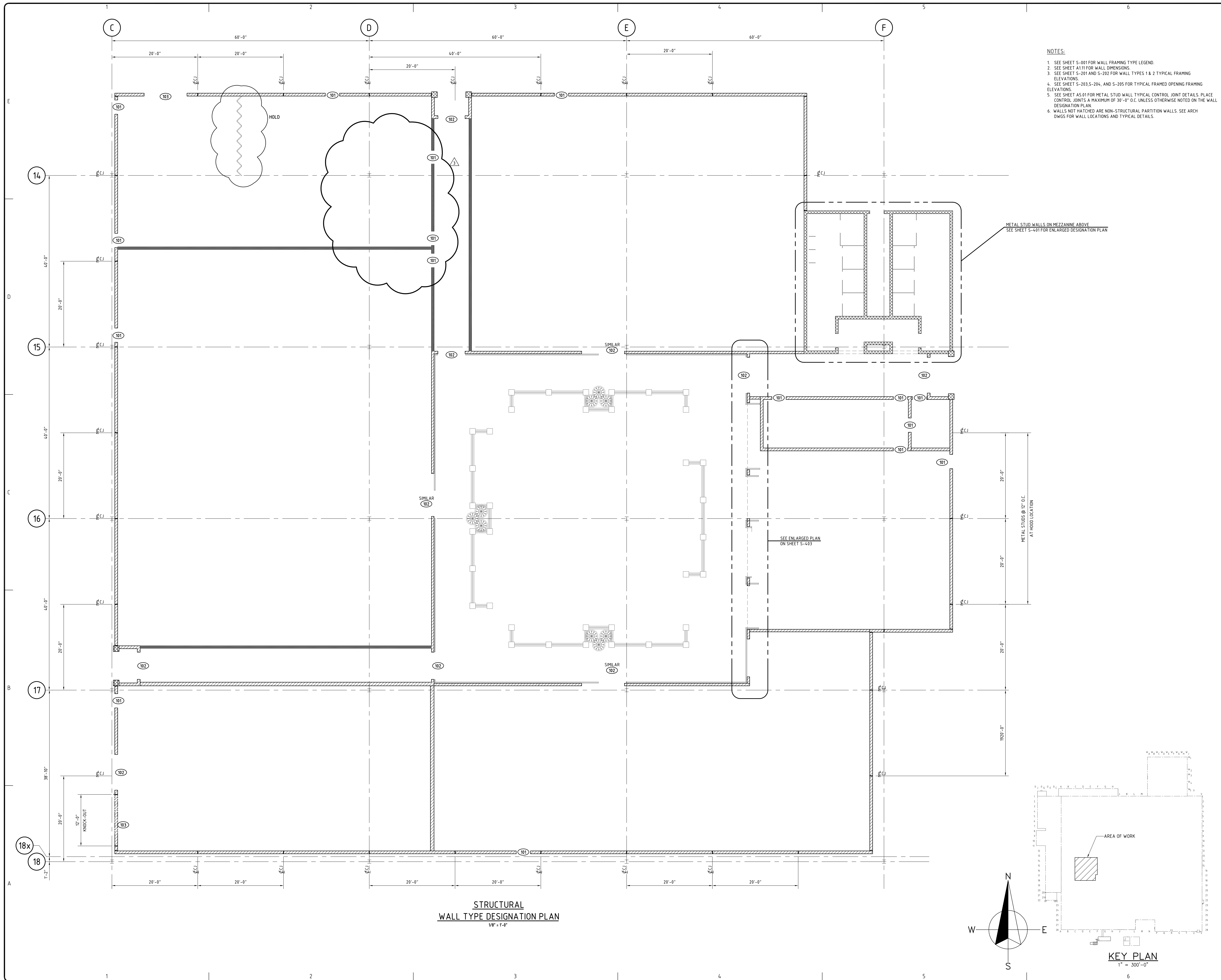



NOTE!!!
1, ALL VIERENDEEL TRUSSES
COMPOSED OF SQUARE &
RECTANGULAR TUBING

MACK TRUCKS, INC
PROPOSED ATRIUM FRAMING




- NOTES:**
- SEE SHEET S-001 FOR WALL FRAMING TYPE LEGEND.
 - SEE SHEET A111 FOR WALL DIMENSIONS.
 - SEE SHEET S-201 AND S-202 FOR WALL TYPES 1 & 2 TYPICAL FRAMING ELEVATIONS.
 - SEE SHEET S-203, S-204, AND S-205 FOR TYPICAL FRAMED OPENING FRAMING ELEVATIONS.
 - SEE SHEET AS 01 FOR METAL STUD WALL TYPICAL CONTROL JOINT DETAILS. PLACE CONTROL JOINTS A MAXIMUM OF 30'-0" O.C. UNLESS OTHERWISE NOTED ON THE WALL DESIGNATION PLAN.
 - WALLS NOT HATCHED ARE NON-STRUCTURAL PARTITION WALLS. SEE ARCH DWGS FOR WALL LOCATIONS AND TYPICAL DETAILS.

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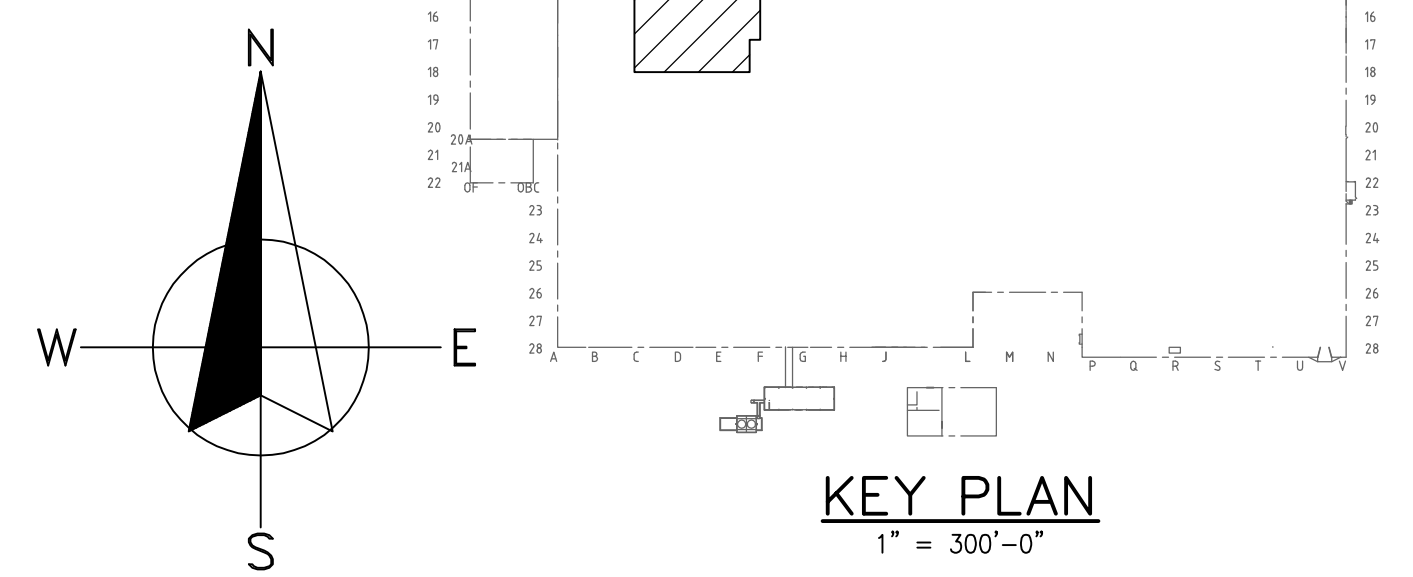
**COURTYARD
OFFICE
AREA**

MARK	DATE	DESCRIPTION
△	11/18/05	PLUMBING REVISIONS
△	09/20/05	OWNER INITIATED CHANGES
△	07/29/05	ADDENDUM NO. 4
△	06/13/05	ADDENDUM NO. 3
△	05/06/05	ADDENDUM NO. 2
△	04/01/05	ADDENDUM NO. 1
0	02/28/05	ISSUED FOR CONSTRUCTION

PROJECT NO:	050410026
CAD DWG FILE:	410026-S-102.DWG
DRAWN BY:	JAC
CHECKED BY:	EF
PROJ. ENG:	EF
PROJ. MGR:	BPM
APPROVED BY:	

**STRUCTURAL
WALL TYPE
DESIGNATION PLAN**

S-102



**STRUCTURAL
WALL TYPE DESIGNATION PLAN**
1/8" = 1'-0"



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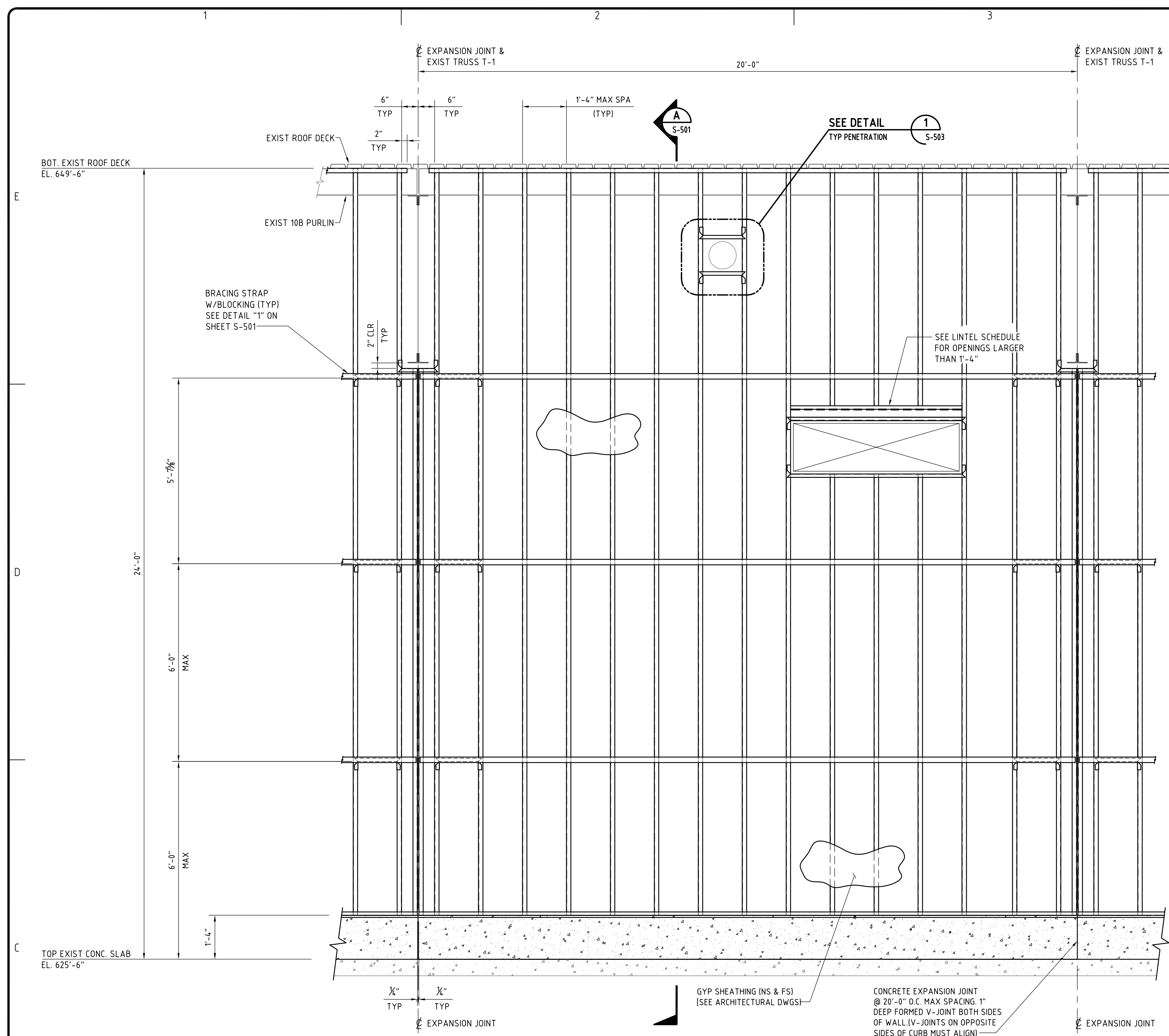
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MARK	DATE	DESCRIPTION
△	11/18/05	PLUMBING REVISIONS
△	09/20/05	OWNER INITIATED CHANGES
△	07/29/05	ADDENDUM NO. 4
△	06/13/05	ADDENDUM NO. 3
△	05/06/05	ADDENDUM NO. 2
△	04/01/05	ADDENDUM NO. 1
0	02/28/05	ISSUED FOR CONSTRUCTION

PROJECT NO:	050410026
CAD DWG FILE:	410026-S-201.DWG
DRAWN BY:	JAC
CHECKED BY:	EF
PROJ. ENG:	EF
PROJ. MGR:	BPM
APPROVED BY:	

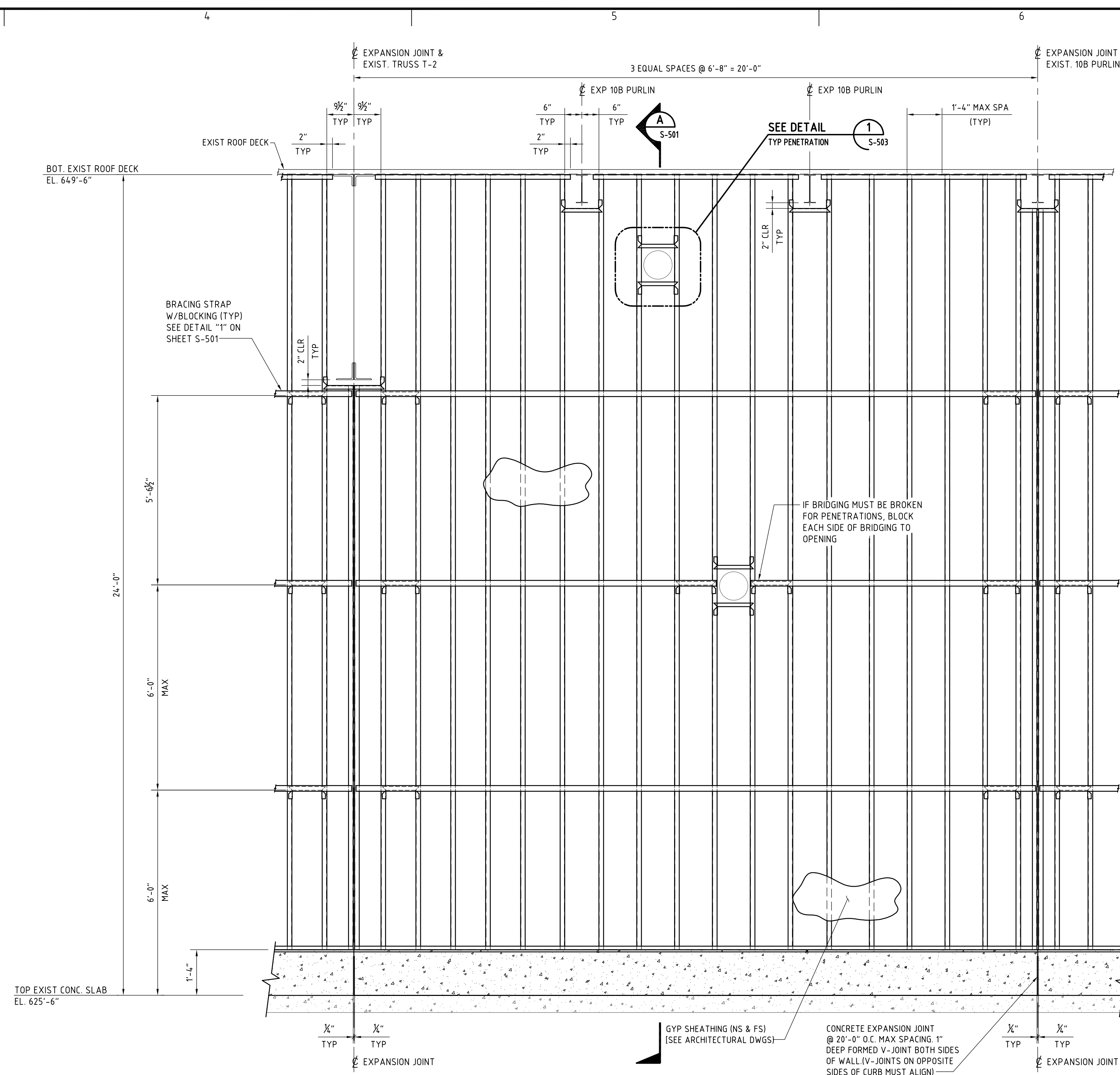
WALL TYPE 1
TYPICAL ELEVATIONS

S-201



WALL TYPE 1 - NORTH/SOUTH TYPICAL FRAMING ELEVATION
1/2" = 1'-0"

NOTE:
 1. SEE ARCH DWG AS 01 FOR TYPICAL CONTROL JOINT DETAILS
 2. SEE SHEET S-501 FOR TYPICAL WALL CONNECTION DETAILS
 3. METAL STUDS SPACED @ 1'-4" UNLESS OTHERWISE NOTED.
 CONTRACTOR SHALL BUILD WALL AROUND EXISTING AND NEW
 PIPES LEAVING OPENINGS AS REQUIRED. IF OPENING REQUIRED
 IS GREATER THAN 1'-4", SEE TYPICAL LINTEL DETAILS AND SCHEDULE.



WALL TYPE 1 - EAST/WEST TYPICAL ELEVATION
1/2" = 1'-0"

NOTE:
 1. SEE ARCH DWG AS 01 FOR TYPICAL CONTROL JOINT DETAILS
 2. SEE SHEET S-501 FOR TYPICAL WALL CONNECTION DETAILS
 3. METAL STUDS SPACED @ 1'-4" UNLESS OTHERWISE NOTED.
 CONTRACTOR SHALL BUILD WALL AROUND EXISTING AND NEW
 PIPES LEAVING OPENINGS AS REQUIRED. IF OPENING REQUIRED
 IS GREATER THAN 1'-4", SEE TYPICAL LINTEL DETAILS AND SCHEDULE.



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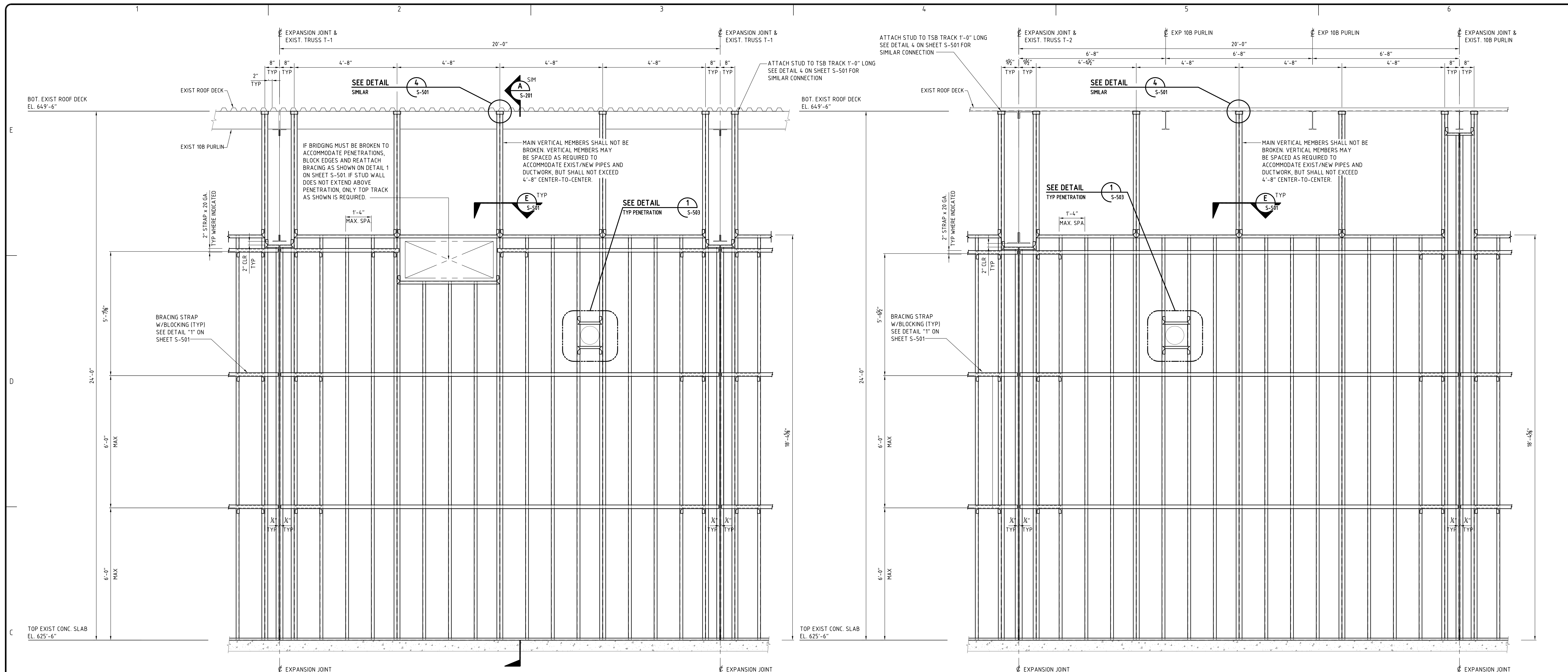
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WALL TYPE 2 - NORTH/SOUTH TYPICAL ELEVATION
1/2" = 1'-0"

NOTE:
1. SEE ARCH DWG AS 01 FOR TYPICAL CONTROL JOINT DETAILS
2. SEE SHEET S-501 FOR TYPICAL WALL CONNECTION DETAILS
3. METAL STUDS SPACED @ 1'-4" UNLESS OTHERWISE NOTED
CONTRACTOR SHALL BUILD WALL AROUND EXISTING AND NEW PIPES, LEAVING OPENINGS AS REQUIRED. IF OPENING REQUIRED IS GREATER THAN 1'-4", SEE TYPICAL LINTEL DETAILS AND SCHEDULE.

WALL TYPE 2 - EAST/WEST TYPICAL ELEVATION
1/2" = 1'-0"

NOTE:
1. SEE ARCH DWG AS 01 FOR TYPICAL CONTROL JOINT DETAILS
2. SEE SHEET S-501 FOR TYPICAL WALL CONNECTION DETAILS
3. METAL STUDS SPACED @ 1'-4" UNLESS OTHERWISE NOTED
CONTRACTOR SHALL BUILD WALL AROUND EXISTING AND NEW PIPES, LEAVING OPENINGS AS REQUIRED. IF OPENING REQUIRED IS GREATER THAN 1'-4", SEE TYPICAL LINTEL DETAILS AND SCHEDULE.

MARK	DATE	DESCRIPTION
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△	06/13/05	ADDENDUM NO. 3
△	05/06/05	ADDENDUM NO. 2
△	04/01/05	ADDENDUM NO. 1
0	02/28/05	ISSUED FOR CONSTRUCTION

PROJECT NO: 050410026
 CAD DWG FILE: 410026-S-202.DWG
 DRAWN BY: DBC
 CHECKED BY: EF
 PROJ. ENG: EF
 PROJ. MGR: BPM
 APPROVED BY:

WALL TYPE 2
TYPICAL ELEVATIONS

S-202



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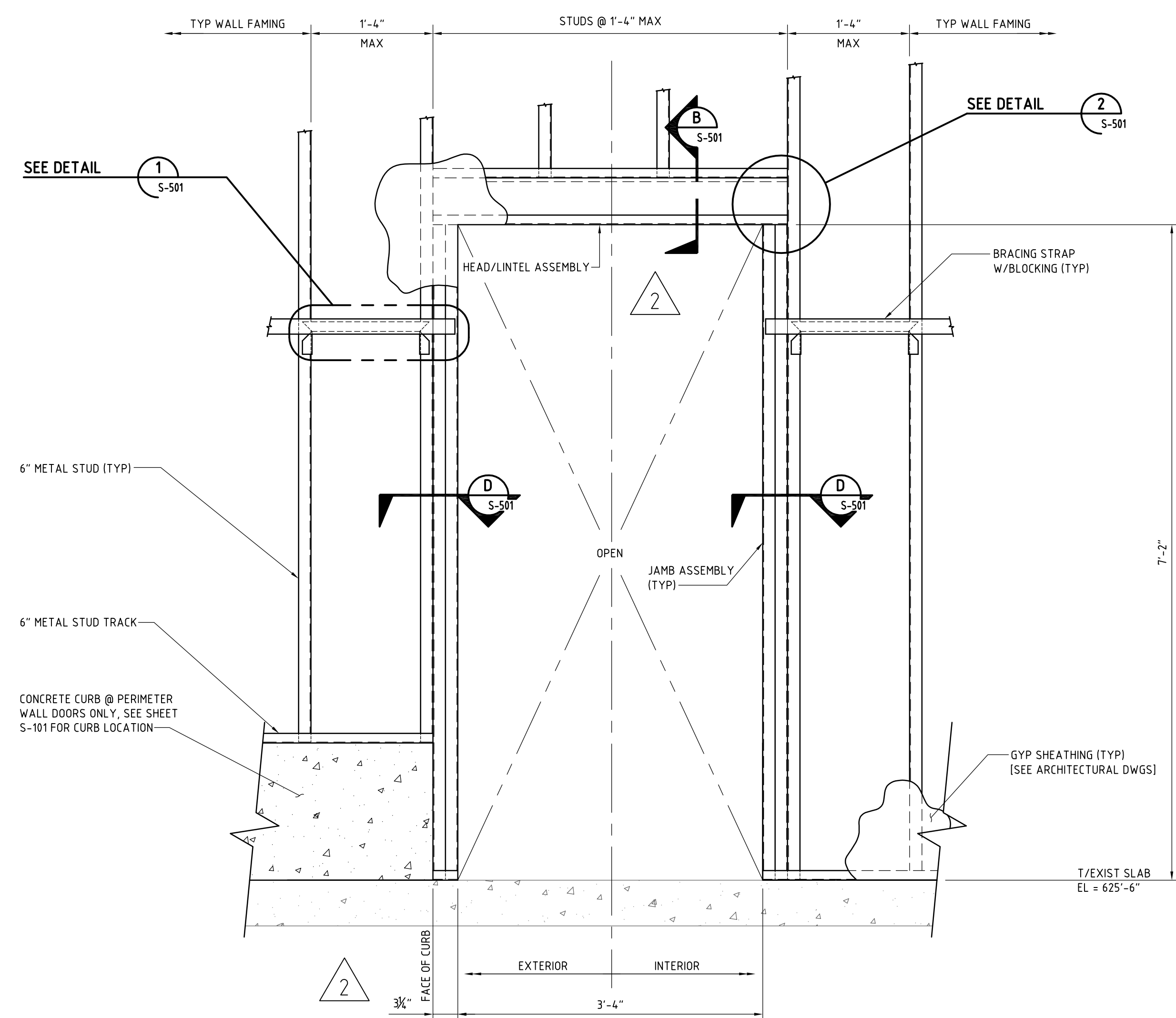
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MARK	DATE	DESCRIPTION
△	11/18/05	PLUMBING REVISIONS
△	09/20/05	OWNER INITIATED CHANGES
△	07/29/05	ADDENDUM NO. 4
△	06/13/05	ADDENDUM NO. 3
△	05/06/05	ADDENDUM NO. 2
△	04/01/05	ADDENDUM NO. 1
0	02/28/05	ISSUED FOR CONSTRUCTION

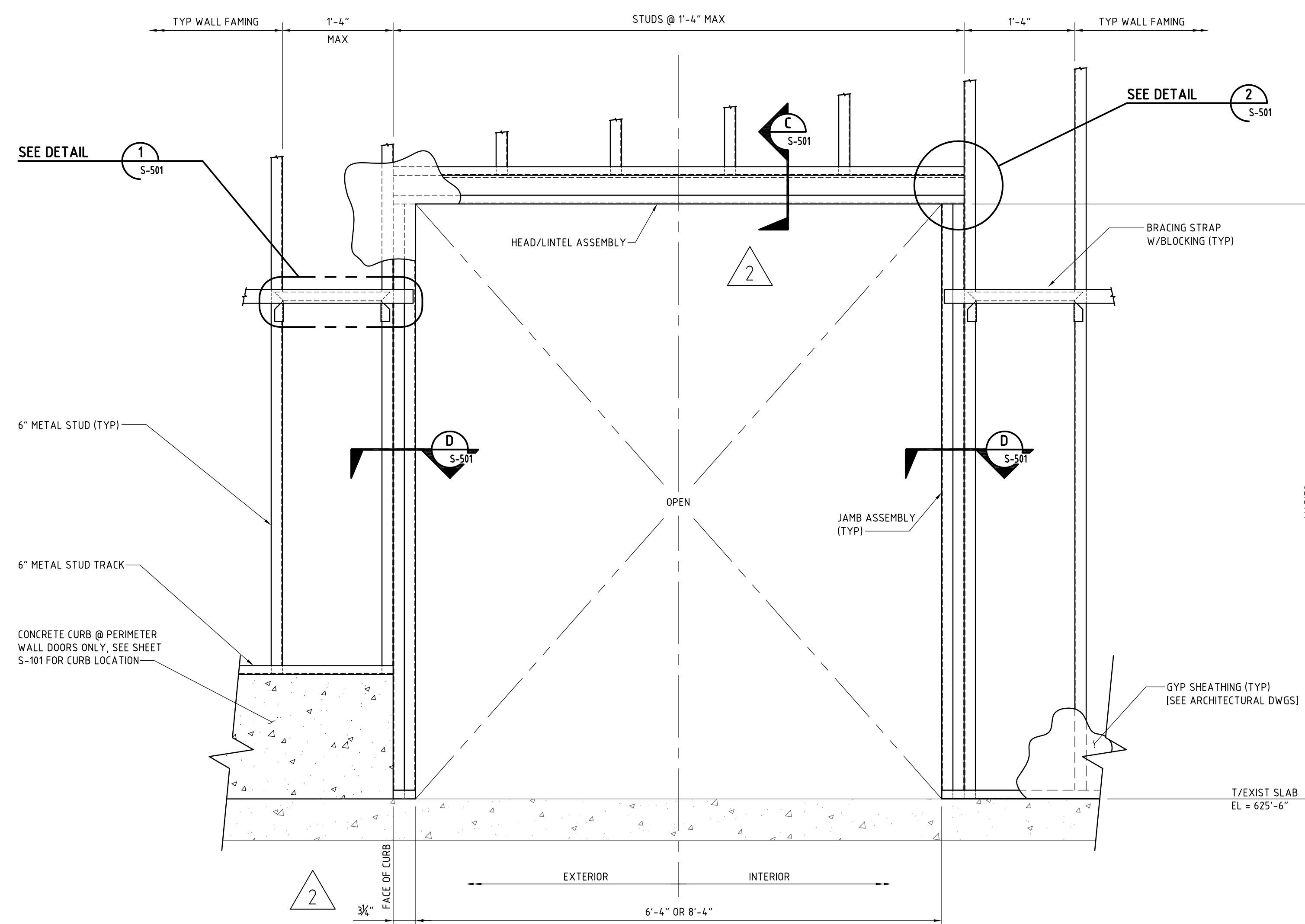
PROJECT NO: 050410026
 CAD DWG FILE: 410026-S-203.DWG
 DRAWN BY: JAC
 CHECKED BY: EF
 PROJ. ENG: EF
 PROJ. MGR: BPM
 APPROVED BY:

OPENING TYPE
FRAMING ELEVATIONS

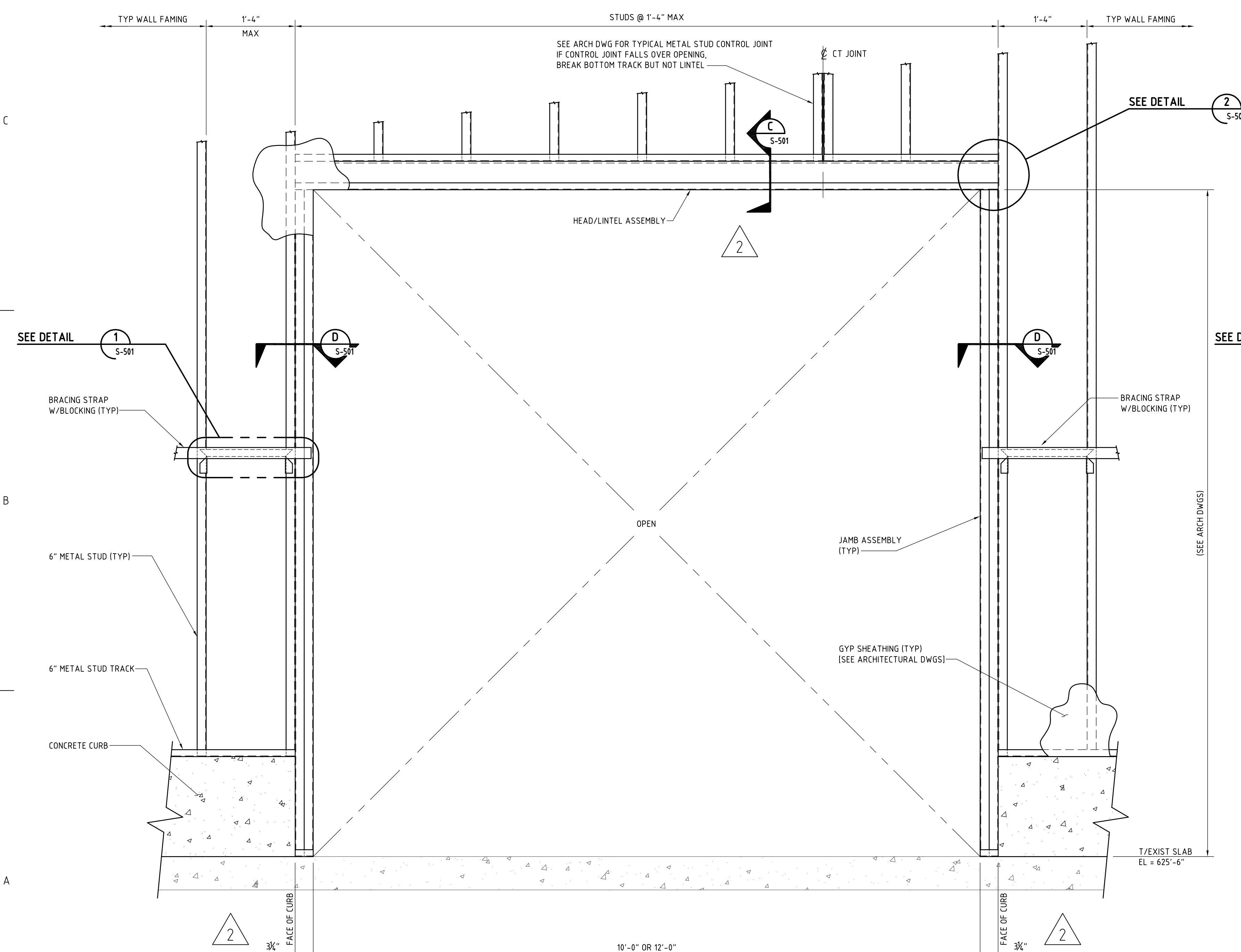
S-203



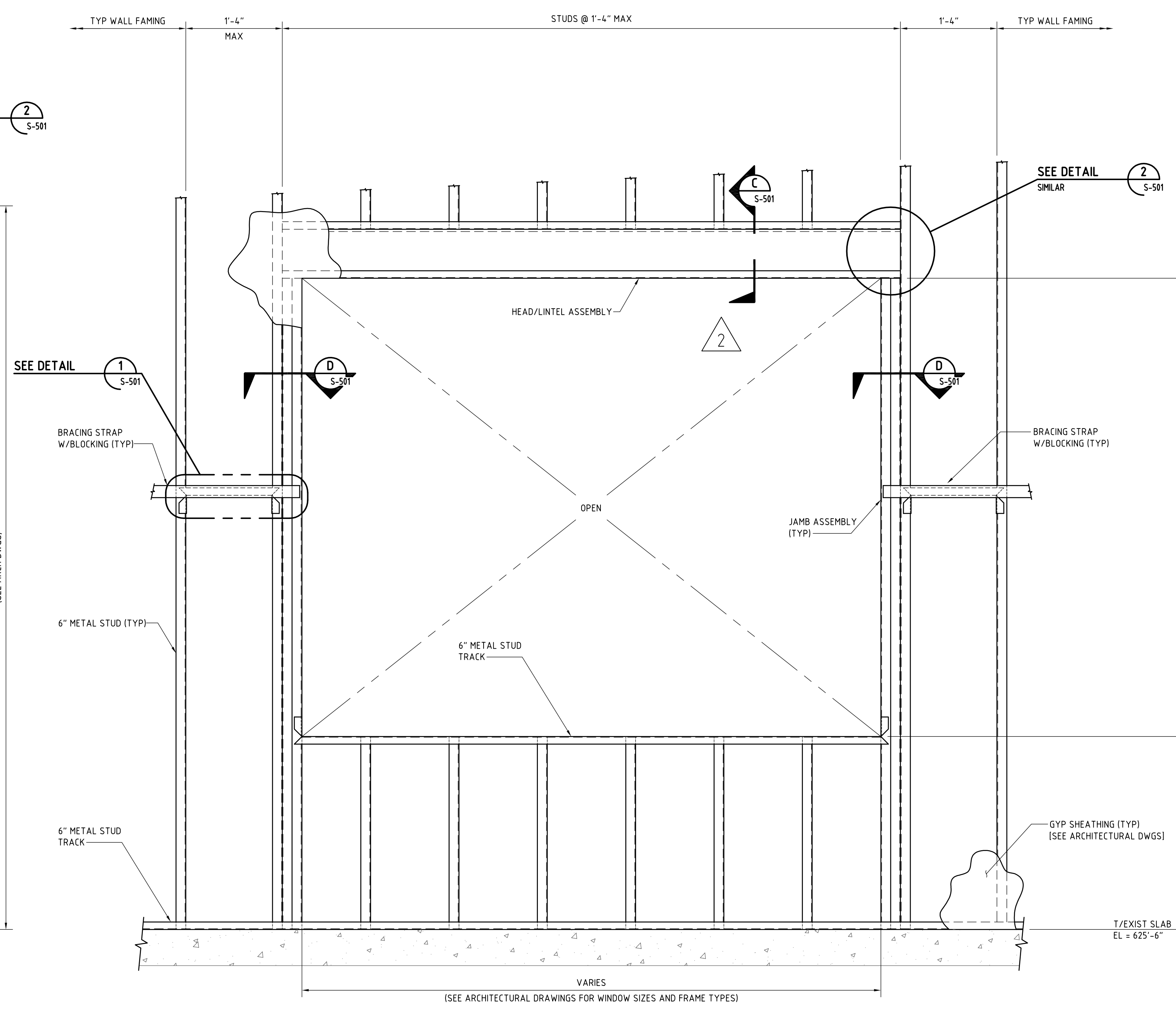
OPENING TYPE 101 FRAMING ELEVATION
T = 1'-0"



OPENING TYPE 102 FRAMING ELEVATION
T = 1'-0"



OPENING TYPE 103 FRAMING ELEVATION
T = 1'-0"



TYPICAL WINDOW FRAMED OPENING
T = 1'-0"



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0	02/28/05	ISSUED FOR CONSTRUCTION

PROJECT NO: 050410026

CAD DWG FILE: 410026-S-203.DWG

DRAWN BY: DBC

CHECKED BY: EF

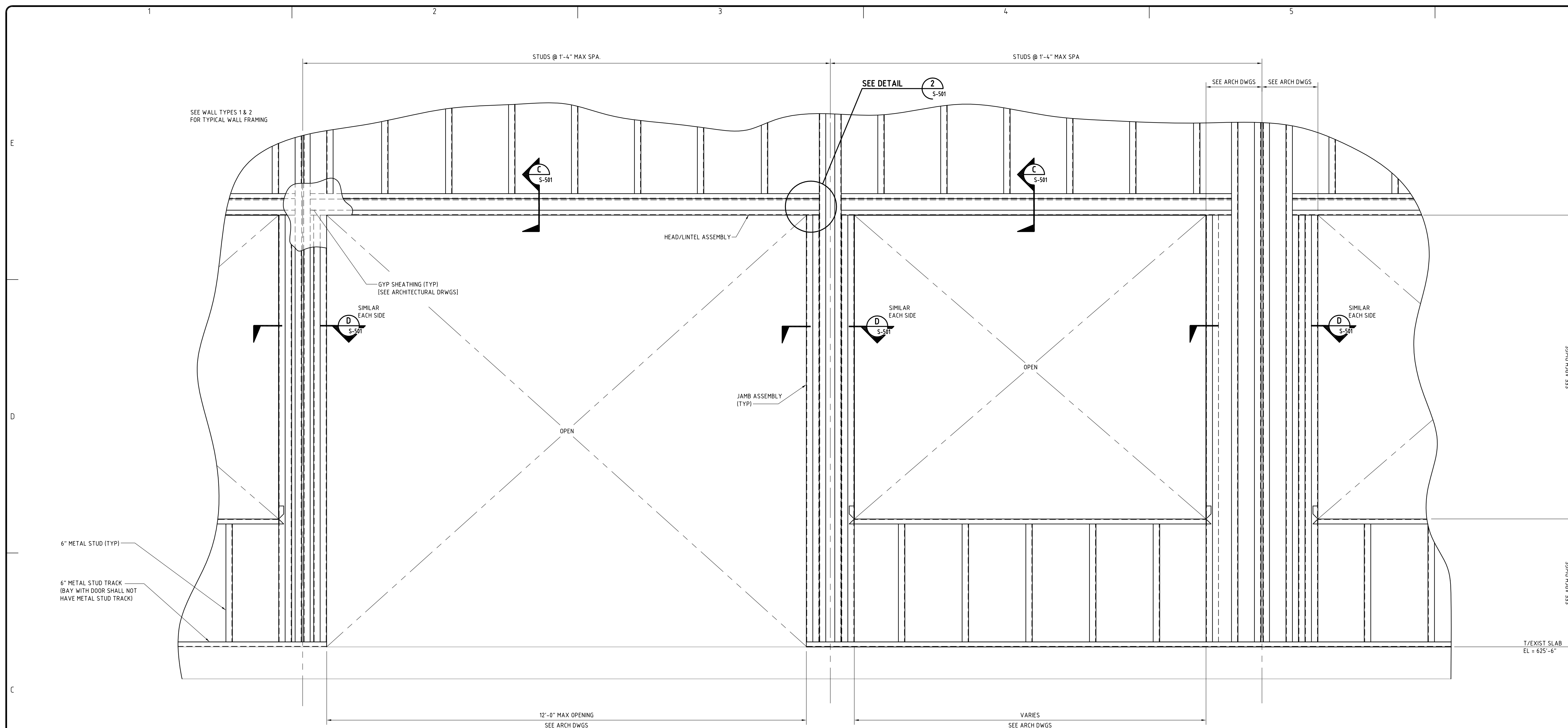
PROJ. ENG: EF

PROJ. MGR: BPM

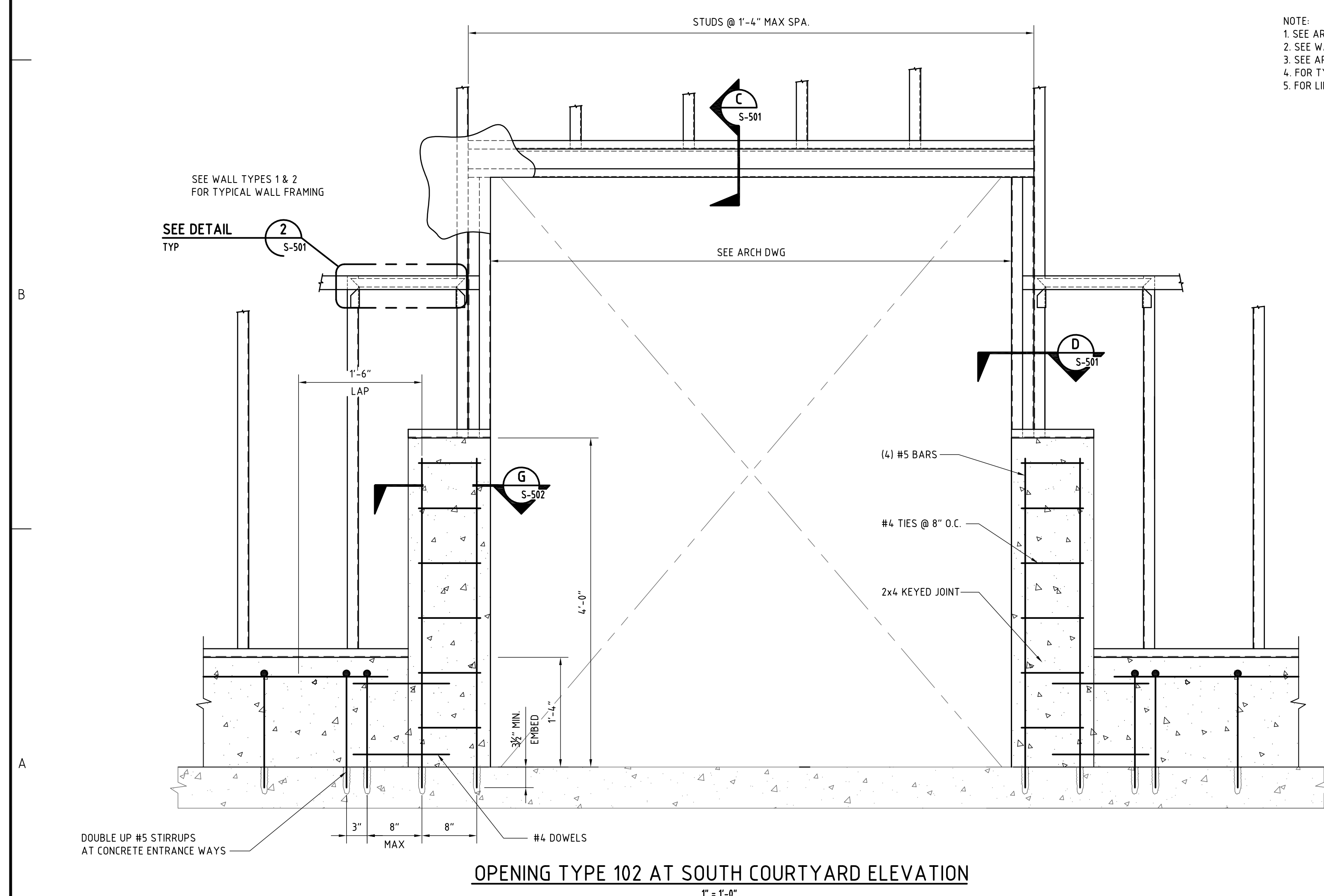
APPROVED BY:

OPENING TYPE
FRAMING ELEVATIONS

S-204

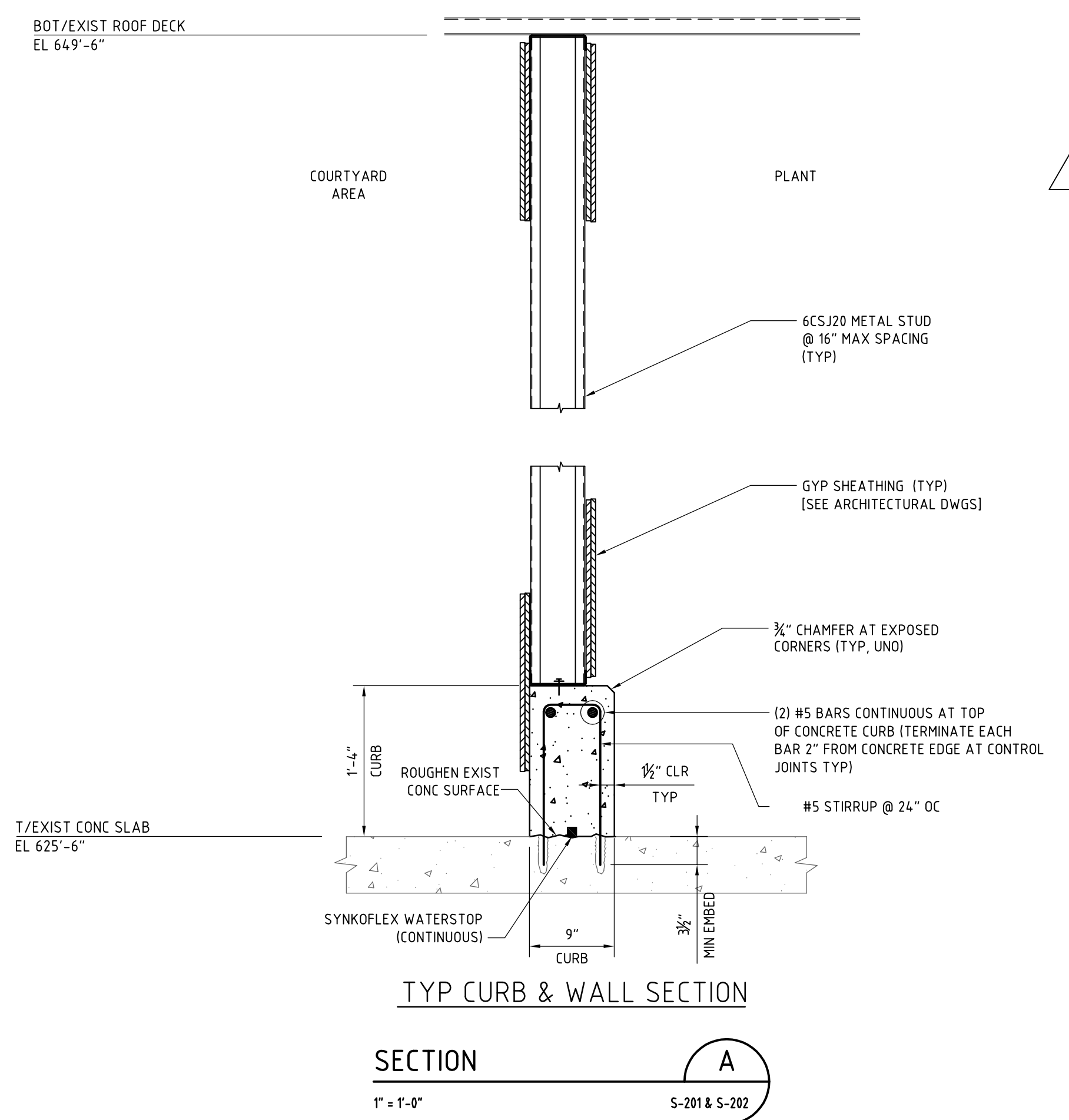


OPENING TYPE 102 AT SOUTH COURTYARD ELEVATION
1" = 1'-4"

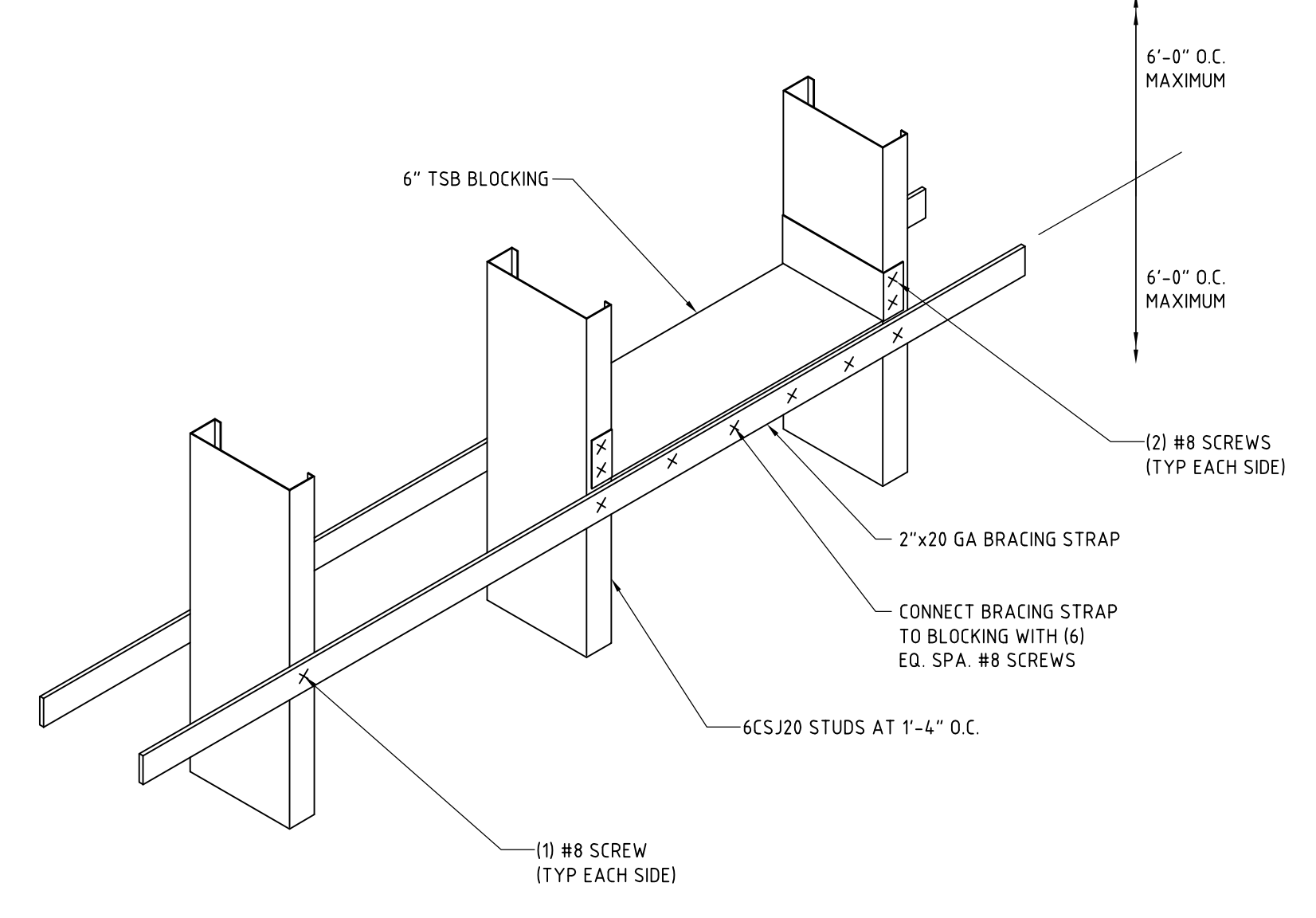


OPENING TYPE 102 AT SOUTH COURTYARD ELEVATION
1" = 1'-0"

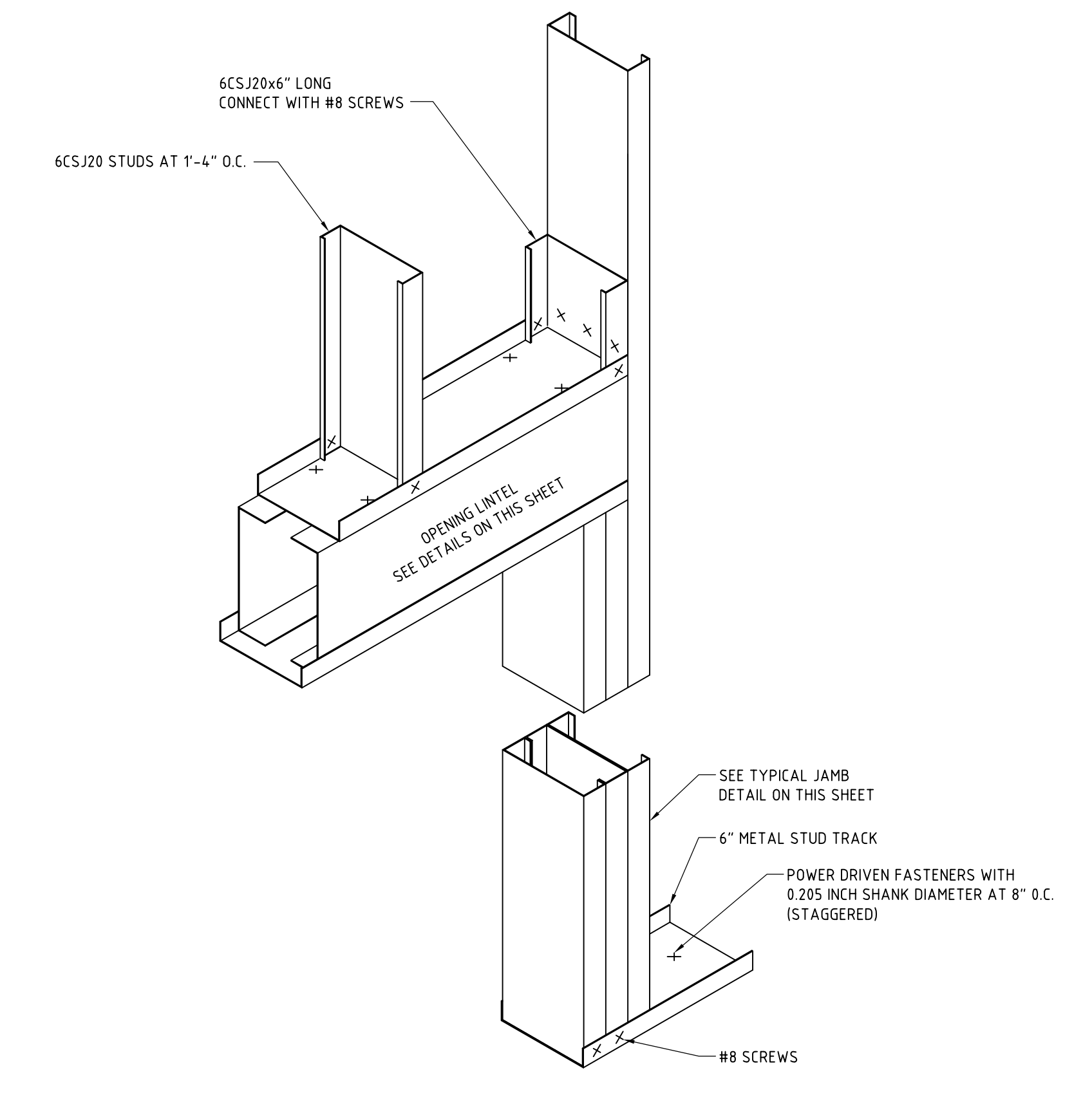
- NOTE:
1. SEE ARCH DWGS FOR TYPICAL WINDOW LOCATIONS.
 2. SEE WALL TYPE ELEVATIONS FOR CONNECTIONS AT THE EXISTING ROOF DECK.
 3. SEE ARCH DWGS FOR OPENING SCHEDULE AND HARDWARE.
 4. FOR TYPICAL LINTEL DETAILS, SEE SHEET S-501.
 5. FOR LINTEL SCHEDULE SEE SHEET S-601.



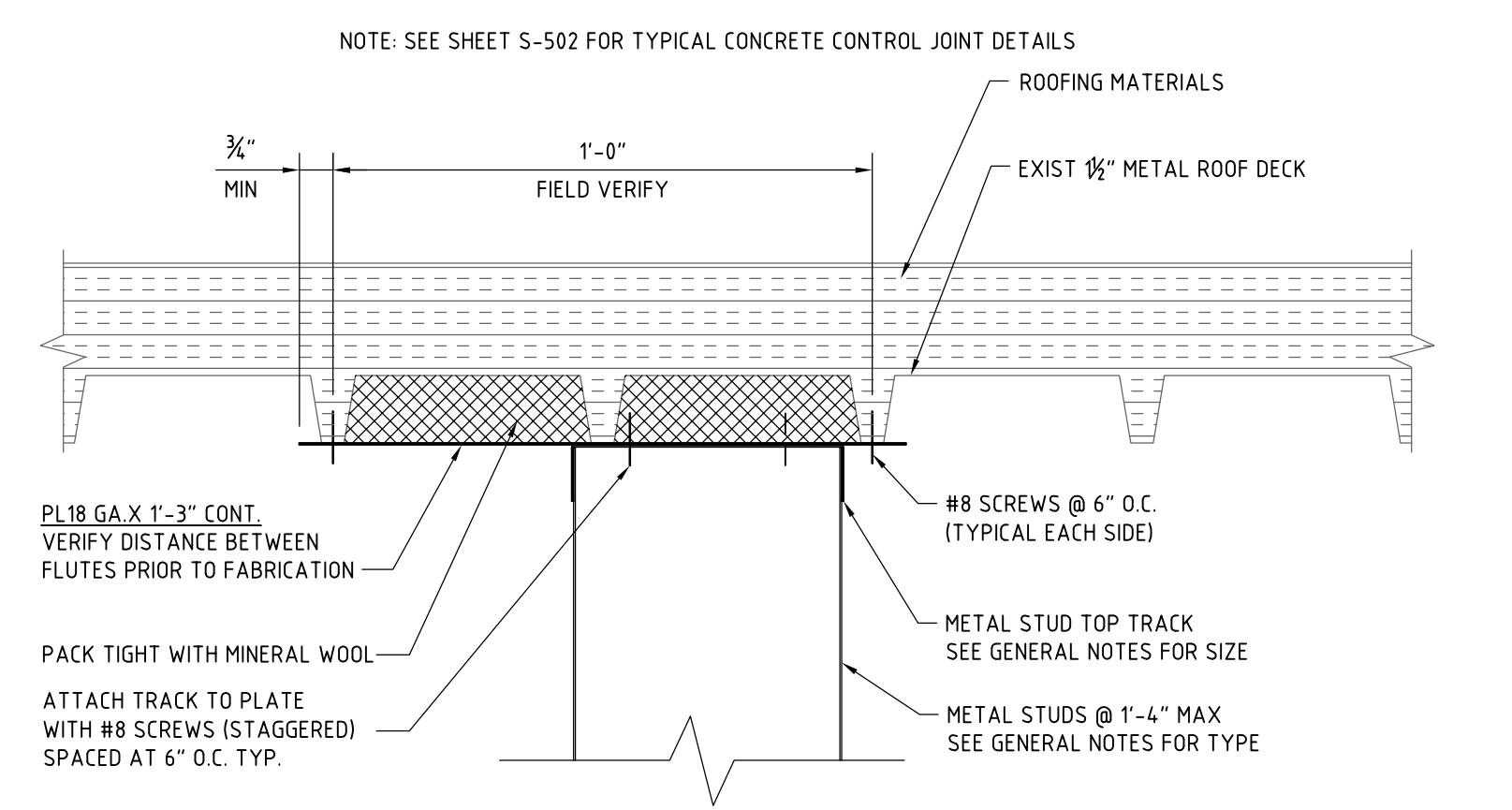
TYP CURB & WALL SECTION
SECTION A
1" = 1'-0"
S-201 & S-202



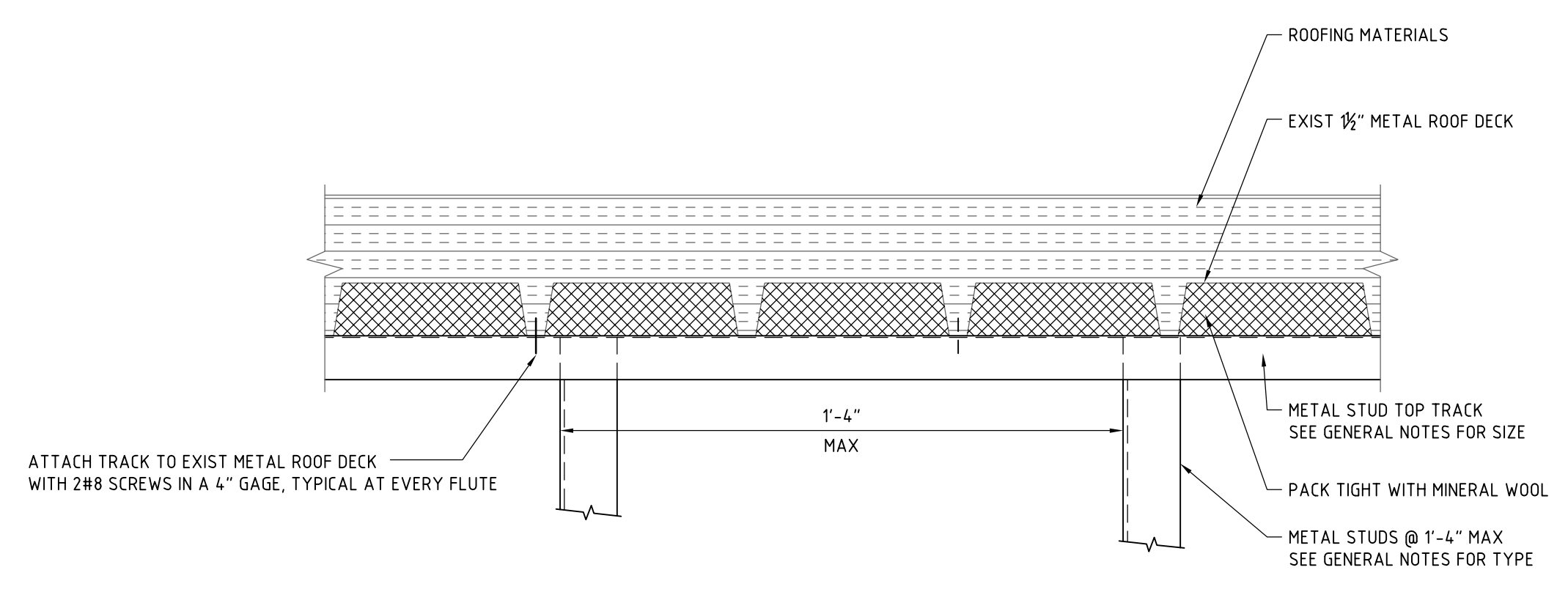
TYP STRAP AND BLOCKING DETAIL
DETAIL 1
NTS
S-201 & S-202



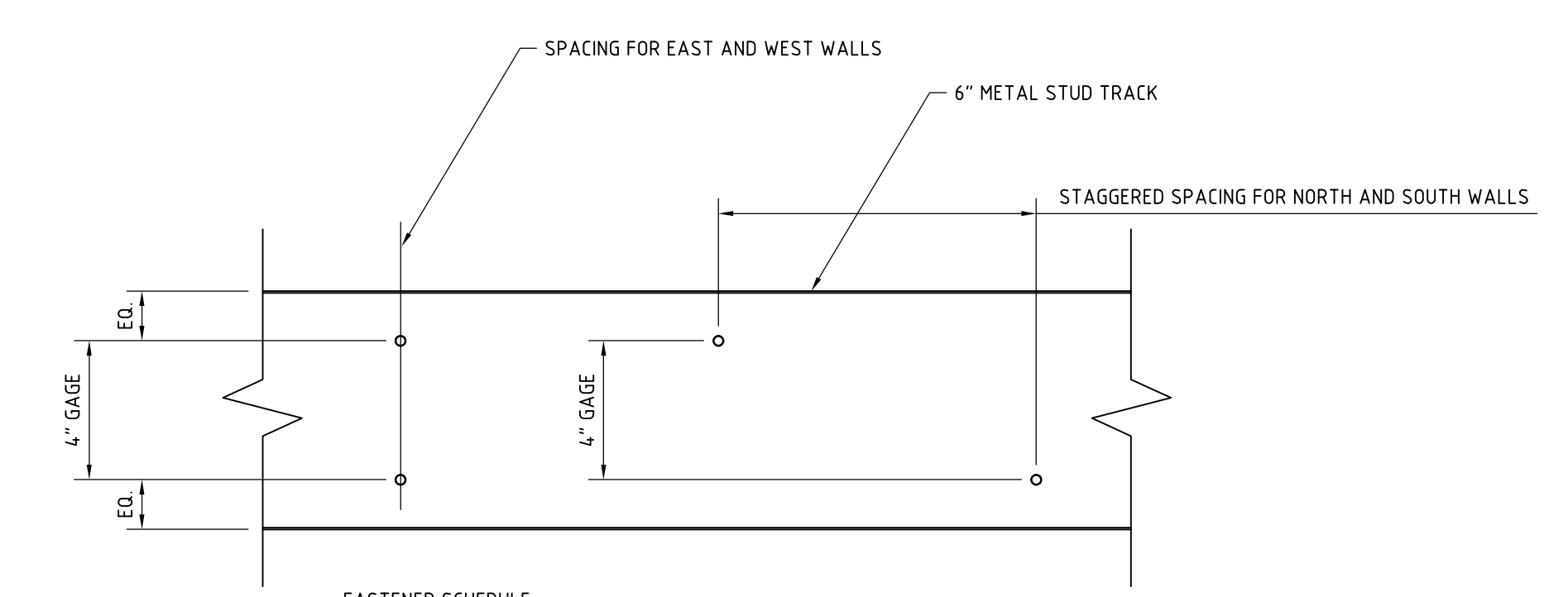
TYP HEAD/LINTEL AND JAMB ASSEMBLY
DETAIL 2
NTS
S-203
NOTE:
1. SEE SHEET S-601 FOR LINTEL AND FASTENER SCHEDULE.



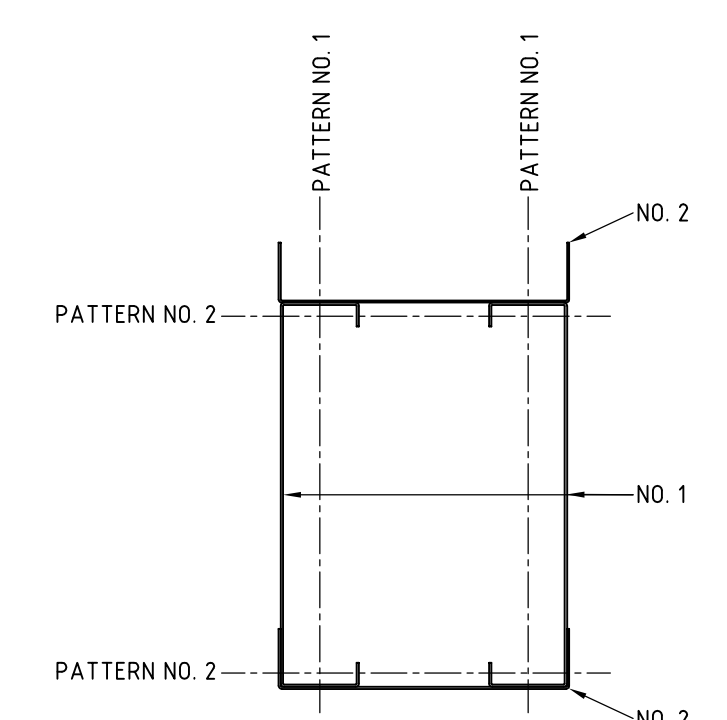
TYP TOP TRACK CONNECTION TRACK RUNNING PARALLEL TO FLUTES (NORTH-SOUTH WALLS)
DETAIL 3
3" = 1'-0"
S-201 & S-202



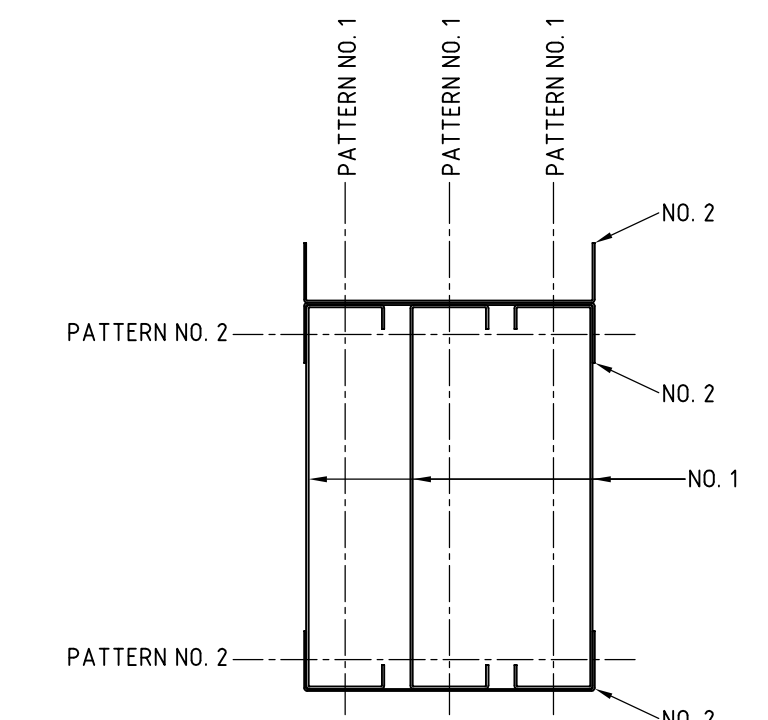
TYP TOP TRACK CONNECTION TRACK RUNNING ACROSS FLUTES (EAST-WEST WALLS)
DETAIL 4
3" = 1'-0"
S-201 & S-202



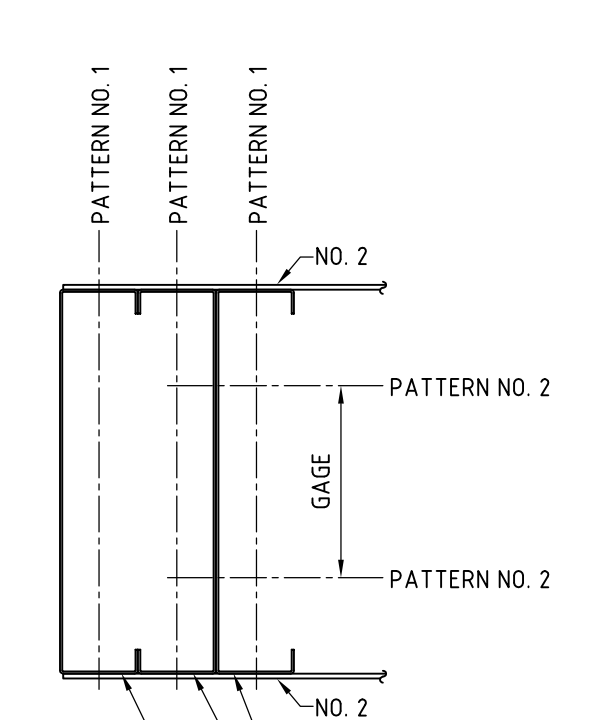
TYP TRACK CONNECTION ANCHOR SPACING
DETAIL 5
3" = 1'-0"
S-201 & S-202
NOTE: SEE SHEET S-601 FOR TYPICAL FASTENER INFORMATION.



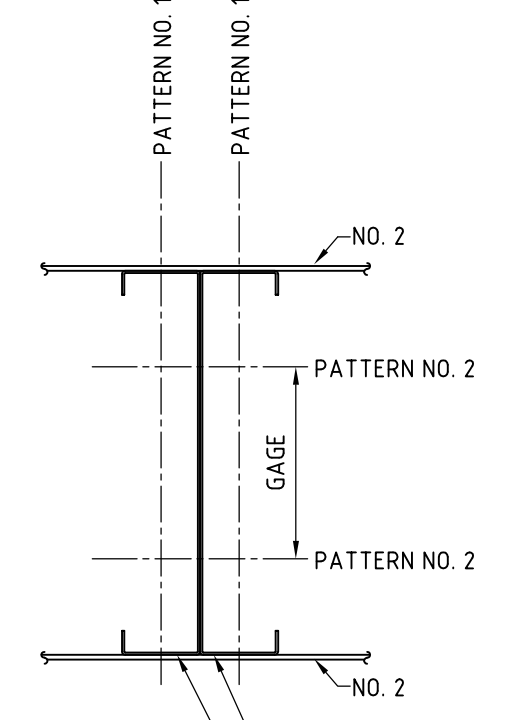
LINTEL L-1
SECTION B
3" = 1'-0"
S-203, S-204, & S-205
NOTE: SEE SHEET S-601 FOR METAL STUD FRAMING SCHEDULE



LINTEL L-2
SECTION C
3" = 1'-0"
S-203, S-204, & S-205
NOTE: SEE SHEET S-601 FOR METAL STUD FRAMING SCHEDULE



JAMB J-1
SECTION D
3" = 1'-0"
S-203, S-204, & S-205
NOTE: SEE SHEET S-601 FOR METAL STUD FRAMING SCHEDULE



JAMB J-2
SECTION E
3" = 1'-0"
S-203, S-204, & S-205
NOTE: SEE SHEET S-601 FOR METAL STUD FRAMING SCHEDULE



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PROJECT NO:	050410026
CAD DWG FILE:	410026-S-501.DWG
DRAWN BY:	JAC
CHECKED BY:	EF
PROJ. ENG:	EF
PROJ. MGR:	BPM
APPROVED BY:	

METAL STUD WALL
DETAILS

STRUCTURAL LIGHT GAUGE PROPERTIES

LINTEL AND JAMB SCHEDULE

Physical Structural Properties - 10" C Studs

MEMBER	GROSS SECTION PROPERTIES										EFFECTIVE SECTION PROPERTIES										TORSIONAL PROPERTIES						
	CODE	GAGE	Flange (in.)	Lip (in.)	Design Thickness (in.)	Minimum Thickness (in.)	Weight (lb./ft.)	Area (in. ²)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	S _y (in. ³)	r _y (in.)	I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)	I _y (in. ⁴)	S _y (in. ³)	M _y (in.-lb.)	K _x (in.)	J (in. ⁴)	C _w (in. ⁶)	R _p (in.)	β		
CSJ	18	1-5/8	1/2	0.0451	0.0428	2.951	0.827	8.027	1.605	3.378	0.158	0.127	0.518	8.027	1.412	27305	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827	0.827
	16	1-5/8	1/2	0.0566	0.0538	3.662	0.783	9.855	1.992	3.506	0.204	0.153	0.511	9.858	1.991	44198	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	0.988	
	14	1-5/8	1/2	0.0713	0.0677	3.159	0.878	12.323	2.465	3.550	0.246	0.196	0.502	12.323	2.464	56164	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	1.232	
	12	1-5/8	1/2	0.1017	0.0966	4.595	1.337	17.090	3.418	3.529	0.325	0.246	0.496	17.090	3.417	81812	1.709	1.709	1.709	1.709	1.709	1.709	1.709	1.709	1.709	1.709	

10" Track

MEMBER	CODE	GAGE	Flange (in.)	Lip (in.)	Design Thickness (in.)	Minimum Thickness (in.)	Weight (lb./ft.)	Area (in. ²)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	S _y (in. ³)	r _y (in.)	I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)	I _y (in. ⁴)	S _y (in. ³)	M _y (in.-lb.)	K _x (in.)	J (in. ⁴)	C _w (in. ⁶)	R _p (in.)	β	
TSB	18	1-1/4	1/8	0.0451	0.0428	1.831	0.560	6.510	1.290	3.410	0.047	0.043	0.291	6.088	0.882	17432	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560	0.560
	16	1-1/4	1/8	0.0566	0.0538	2.298	0.702	8.162	1.514	3.409	0.059	0.053	0.269	7.994	1.436	28379	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702	0.702
	14	1-1/4	1/8	0.0713	0.0677	2.866	0.882	10.236	2.018	3.407	0.073	0.066	0.287	10.236	1.963	38786	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882	0.882
	12	1-1/4	1/8	0.1017	0.0966	4.108	1.266	14.566	2.955	3.406	0.100	0.092	0.283	14.566	2.954	64202	1.266	1.266	1.266	1.266	1.266	1.266	1.266	1.266	1.266	1.266

Physical Structural Properties - 6" C Studs

MEMBER	GROSS SECTION PROPERTIES										EFFECTIVE SECTION PROPERTIES										TORSIONAL PROPERTIES					
	CODE	GAGE	Flange (in.)	Lip (in.)	Design Thickness (in.)	Minimum Thickness (in.)	Weight (lb./ft.)	Area (in. ²)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	S _y (in. ³)	r _y (in.)	I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)	I _y (in. ⁴)	S _y (in. ³)	M _y (in.-lb.)	K _x (in.)	J (in. ⁴)	C _w (in. ⁶)	R _p (in.)	β	
CWN	20	1-3/8	3/8	0.0346	0.0329	1.047	0.329	1.597	0.532	2.234	0.070	0.065	0.456	1.597	0.513	10145	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532	0.532
	18	1-3/8	3/8	0.0451	0.0428	1.351	0.413	2.043	0.681	2.224	0.087	0.082	0.460	2.043	0.681	15016	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681	0.681
	16	1-3/8	3/8	0.0566	0.0538	1.682	0.514	2.519	0.840	2.214	0.106	0.098	0.452	2.519	0.819	21587	0.819	0.819	0.819	0.819	0.819	0.819	0.819	0.819	0.819	0.819
	14	1-3/8	3/8	0.0713	0.0677	2.091	0.629	3.024	1.091	2.205	0.127	0.117	0.443	3.024	1.033	28924	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033

6" Track

MEMBER	CODE	GAGE	Flange (in.)	Lip (in.)	Design Thickness (in.)	Minimum Thickness (in.)	Weight (lb./ft.)	Area (in. ²)	I _x (in. ⁴)	S _x (in. ³)	r _x (in.)	I _y (in. ⁴)	S _y (in. ³)	r _y (in.)	I _x (in. ⁴)	S _x (in. ³)	M _x (in.-lb.)	I _y (in. ⁴)	S _y (in. ³)	M _y (in.-lb.)	K _x (in.)	J (in. ⁴)	C _w (in. ⁶)	R _p (in.)	β
TSB	20	1-1/4	1/8	0.0346	0.0329	0.936	0.292	1.393	0.459	2.183	0.034	0.032	0.340	1.275	0.325	6435	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292	0.292
	18	1-1/4	1/8	0.0451	0.0428	1.242	0.379	1.809	0.594	2.182	0.043	0.041	0.339	1.688	0.365	9970	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
	16	1-1/4	1/8	0.0566	0.0538	1.557	0.476	2.297	0.742	2.183	0.054	0.052	0.336	2.096	0.371	12527	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
	14	1-1/4	1/8	0.0713	0.0677	1.953	0.597	2.843	0.926	2.182	0.067	0.064	0.334	2.843	0.391	16111	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597

DETAIL MARK	Element No. 1	Element No. 2	Fastener Pattern No. 1	Fastener Pattern No. 2	GENERAL REMARKS
B/S501	CSJ6x20	TSB6x20	#8@4" oc	#8@12" oc	Typical Lintel L-1
C/S501	CSJ10x18	TSB6x18	#8@6" oc	#8@12" oc	Typical Lintel L-2
D/S501	CSJ6x20	2"x20ga STRAP Vertically spaced @ 6'-0" Max.	1#8 @ Strap	#8@6" oc w/a 4" gage	Typical Jamb J-1 Note: gage shown is to be centered on assembly - work w/ S501
E/S501	CSJ6x20	2"x20ga STRAP Vertically spaced @ 6'-0" Max.	1#8 @ Strap	#8@6" oc w/a 4" gage	Typical Jamb J-2 Note: gage shown is to be centered on assembly - work w/ S501

FASTENER TYPE AND MINIMUM PERFORMANCE VALUES

Fastener Information

Suggested Design Loads for Screw Connections (lbs.)

Steel Gage	No. 12-14 Diameters = 0.210 in.		No. 10-16 Diameters = 0.189 in.		No. 9-10 Diameters = 0.190 in.	
	Shear	Pullout	Shear	Pullout	Shear	Pullout
12	662	408	466	369	---	---
14	625	266	466	242	---	---
16	500	189	423	177	369	166
18	400	138	362	175	305	118
20	250	85	243	75	229	71

- NOTES:
- Shear and pullout strengths are based on average test results divided by a safety factor of 3.0 for shear and 4.0 for pullout. Reduced capacities based on a higher factor of safety can be used at your engineer's discretion.
 - Screw spacing and edge distance shall not be less than 1.5" Dia. nor less than P/6" Fy where P is the shear load per screw and 1 is the thickness of the steel sheet.
 - When connecting materials of different gage, use the loads shown for the lighter gage.
 - Screw capacities are based on per ITW Buildex Test No. 845.
 - Ultrataq screw capacities are per ITW Buildex Test No. 845.

Suggested Pullout or Shear Capacity for Power Driven Fasteners in Structural Steel (lbs.)

Steel Gage	Shank Diameter (in.)					
	1/4		3/8		1/2	
12	210	210	210	335	395	485
14	210	210	210	335	395	485
16	210	210	210	335	395	485
18	210	210	210	335	395	485
20	197	197	197	241	241	279

- NOTES:
- Capacities shown are uninspected shear values per Hilti ICBO Research Report No. 2385.
 - Tests were conducted with the fastener point driven completely through the back side of the hot rolled steel member. This was required to obtain proper gripping forces.
 - Values may not be increased 1/3 for wind or seismic loads.
 - Bearing strength is based on the bearing area multiplied by 1.15 times 33 ksi.

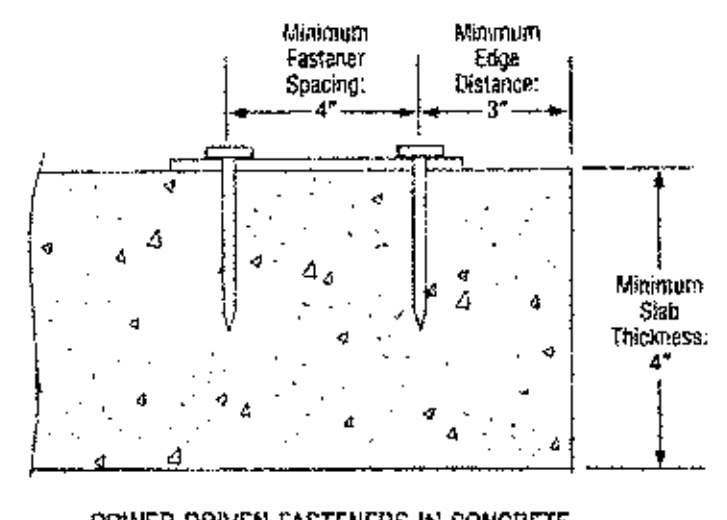
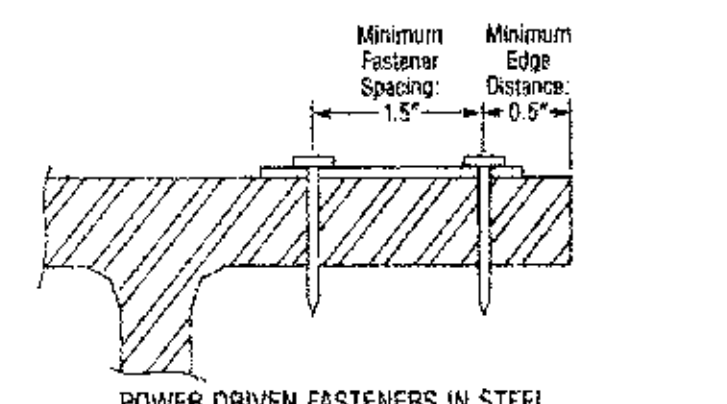


Table A - Suggested Design Loads for Power Driven Fasteners in Concrete (lbs.)

Shank Diameter (in.)	Minimum Penetration (in.)	Loading	Concrete Comp. Strength (psi)		
			2000	3000	4000
0.145	1-1/8	Pullout	90	115	145
		Shear	160	225	285
		Pullout	150	150	150
		Shear	250	265	330
		Pullout	150	150	150
		Shear	390	445	500

Table B - Suggested Design Bearing Strength (lbs.)

Shank Diameter (in.)	Steel Gage	Bearing Strength (lbs.)		
		70	18	18
0.145	207	---	---	
0.177	253	---	---	
0.205	293	390	488	

Suggested Design Loads for Fillet and Flare-Bevel Groove Welds

Steel Gage	Design Thickness (in.)	Weld Size (in.)	Weld Strength (lb./in.)	
			Fillet	Flare-bevel Groove
10	0.1242	3/16	1228	982
12	0.1017	5/32	1007	806
14	0.0713	1/8	706	565
16	0.0566	1/8	560	448
18	0.0451	1/8	447	358

- NOTES:
- Capacities are for stone aggregate concrete and are based on a low velocity shot.
 - Values may not be increased 1/3 for wind or seismic loads.
 - Capacities shown are based on unspaced values of Hilti ICBO Research Report No. 2385.
 - For Shear/Bearing, check Table A values versus Table B values and use the minimum value. If a value is left blank or is not listed in Table B, use the value in Table A.

- WELD NOTES:
- Welds can be positioned in shear or tension.
 - Weld strength for fillet = 3" Fy/1.75.
 - Weld strength for flare-bevel groove = 3" Fy/1.75.
 - Values shown are for Fy = 33 ksi. For Fy = 40 ksi multiply tabulated values by 1.23. For Fy = 50 ksi multiply tabulated values by 1.52.
 - Flare-bevel groove welds occur between the outside radius of one piece and a flat surface of another piece.

THESE PROPERTIES AND MANUFACTURERS CAN NOT BE CHANGED OR SUBSTITUTED

THESE VALUES ARE ACTUAL ALLOWABLE LOADS

NOTE: USE TABLE ONLY IF APPLICABLE WITH THESE DESIGN DOCUMENTS.



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MACK TRUCKS
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OPERATIONS

COURTYARD
OFFICE
AREA

MARK	DATE	DESCRIPTION
△	11/18/05	PLUMBING REVISIONS
△	09/20/05	OWNER INITIATED CHANGES
△	07/29/05	ADDENDUM NO. 4
△	06/13/05	ADDENDUM NO. 3
△	05/06/05	ADDENDUM NO. 2
△	04/01/05	ADDENDUM NO. 1
0	02/28/05	ISSUED FOR CONSTRUCTION

PROJECT NO: 050410026
CAD DWG FILE: 410026-S-601.DWG
DRAWN BY: EF
CHECKED BY: EF
PROJ. ENG: EF
PROJ. MGR: BPM
APPROVED BY:

GENERAL DETAILS
STRUCTURAL SCHEDULES