

Package # 59 Steel and Misc Metals

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01 11 00 Summary

- y n Off hours work required by 01 11 00 section 1.11
- y n Phasing / staggered work required by 01 11 00 section 1.10 (30 workstations at a time requirement)

01 56 19 Construction Noise Control

- y n Compliance with noise control requirements per 01 56 19

05 12 00 Structural Steel Framing

- y n 8" pipe columns
S3.7D S3.7C S3.7B S3.7A
- y n Catwalk framing at floors 3, 4, 5, 6 (South and west elevations)
S8.1 S3.6A S2.6 S2.5 S2.4 S2.3
- y n Edge bent plate at penthouse
S3.8D S3.8C 16/S7.1
- y n Epoxy embeds in existing columns
9/S7.2 7/S7.2
- y n Framing for balconies (Alternate 3)
A8.8 14/S8.4 13/S8.4 12/S8.4 11/S8.4 S2.6
B/S8.4 A/S8.4
- y n HSS column embedded baseplate
8/S5.1 10/S5.1
- y n HSS tubesteel girts and top rail
17/S6.2 16/S6.2 6/S6.1 3/S6.1 13/S6.1 12/S6.1
- y n HSS4x4x1/4 diagonals
US2.4
- y n Structural steel for central plant
US2.4 US2.3 US2.2
- y n Structural steel for floor infills
A10.1 S9.1 S2.8 S2.7 S2.6 S2.5
- y n Structural steel for new penetration at the third floor
17/S9.1 S2.3

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- y n Structural steel for north tower
S6.2 S6.1 S3.10
- y n Structural steel for penthouse canopy
A4.15 S2.8
- y n Structural steel framing at hallway extension
19/S8.5 15/S8.5 11/S8.5 18/S8.5 12/S8.5 4/S8.5
7/S8.5 6/S8.5
- y n Tie rod bracing
S3.8D 13/S7.2

05 12 13 Architecturally Exposed Structural Steel Framing

- y n AESS at gallery extension
3/A2.13
- y n AESS fin supports
7/A8.14
- y n AESS-1 angles
3/A8.14 1/A8.14 18/A8.13 15/A8.13 4/A8.13 3/A8.13
2/A8.13
- y n Exposed AESS-2 columns and beams
2/A4.12 1/A4.12
- y n Louver support angles - AESS-1 / galvanized
15/A8.14 14/A8.14 13/A8.14 9/A8.14 8/A8.14 5/A8.14
4/A8.14 3/A7.1 2/A7.1 18/S8.4 17/S8.4 19/S8.4
9/S8.4 10/S8.4

05 50 00 Metal Fabrications

- y n 1 1/2" OD stainless steel handrails and stringer railings
5/A5.3 4/A5.3 3/A5.3 2/A5.3 1/A5.3 A5.2
A5.1
- y n 1/2" end plate and channel with chemical adhesive embed for second skin support
4/S8.2 15/S8.1 14/S8.1 13/S8.1 5/S8.1 4/S8.1
3/S8.1
- y n 1/2" steel end plate with embed into chemical adhesive at existing concrete columns at penthouse
20/S7.1

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- y n 1/4" plate at threshold of 602 and 623
note 10/A2.6
- y n 4x4x1/4 HSS columns with baseplates at signage
7/A8.6 3/A8.6 2/A8.6
- y n 4x4x3/8 continuous floor angle at gallery extension
2/A2.12
- y n 5/8" steel angle at sign
A/A6.8
- y n 6x4x3/16" angle clip with chemical adhesive for metal panel bumpout framing
15/S8.2
- y n Aluminum swaged bar grating at balconies by McNichols (GAL 7-SG-4) per specification 05 50 00 section 2.9 A1c
B/S8.4 A/S8.4
- y n Aluminum swaged bar grating at catwalks by McNichols (GAL 19-SG-4) per specification 05 50 00 section 2.9 A1b
3/A2.16 A2.8 3/S8.1 16/S8.1 15/S8.1 11/S8.1
C/S7.1 B/S7.1 A/S7.1 S3.7A S3.6A
- y n Angle at trench
6/A1.6 3/A8.6 7/A8.6
- y n Angle brackets at counters
5/A10.3 10/A10.2
- y n Angles at top of CMU wall
4/US6.1 3/US6.1
- y n Bar grate maintenance walk - McNichols GW-150
US2.4 1/UA4.4 1/UA4.3 UA2.4
- y n Brushed ss handrails at exterior entry steps
2/A1.7 8/A1.6 A1.5 A1.2
- y n C15x33.7 ledger at curtain wall fin
4/S8.5
- y n Channels, girts and HSS4x4x1/4 outriggers for screen wall
20/US6.1 19/US6.1 17/US6.1 US2.4
- y n Continuous 4x4x3/16 angle
7/UA8.1 1/UA8.1
- y n Continuous C4x5.4
7/US6.1
- y n Continuous L3x3x3/8 with stiffeners
17/US6.1

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- y n Curtain wall support plates with chemical adhesive anchors
9/S8.2 8/S8.2 7/S8.2
- y n Davit supports
9/A8.21 20/S8.6 5/S8.6 4/S8.6 2/S8.6
- y n Downspouts per specification 05 50 00 section 2.4
- y n Floor angle at room 659
18/A9.1
- y n Galvanized baseplates at solar panel curbs
13/A8.20
- y n Galvanized fittings
7/A8.6 5/A8.6
- y n Galvanized steel lintel / plate sills and jambs
2/UA8.2 5/UA8.1 4/UA8.1 2/UA8.1 18/UA8.1
- y n Guardrails at upper tier walkways
20/UA9.2
- y n Handrail and guardrail assemblies per 05 50 00 section 2.2
20/S7.2 19/S7.2
- y n HSS 2 1/2x1 1/2x3/16 guardrail post
7/US6.1
- y n HSS 3x2 rails
13/S8.2 10/S8.2
- y n HSS 3x3x1/4" beam and posts at wall type 15
15/A9.3 14/A9.3 7/A9.3 15/A9.0
- y n HSS 6x4x3/8 hanger with support plate and chemical adhesive
7/S8.3 4/S8.3 2/S8.3
- y n HSS head attachment
13/A7.2 12/A7.2
- y n HSS10x3x3/8 framing with channel outriggers at curtain wall fin on line 10
4/S8.5 3/S8.5
- y n Interior metal wall posts
5/A9.3
- y n L3x3x3/16 wall angle
16/A8.3 16/A8.3 15/S8.2 10/S8.2 18/S8.2
- y n L5x4x3/8" angle clips with chemical adhesive for wall cladding framing
3/S8.2 2/S8.2

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- y n L6x4x3/16 stud support angle with embed into chemical adhesive
9/S8.3
- y n L8x6x1/2 angle and L7x4x3/8 angle at curtain wall head
7/S8.3 2/S8.3
- y n L8x8x1/2 angle at curtain wall head
19/S8.4
- y n Ledgers with embed into chemical adhesive at existing concrete beams at penthouse
18/S7.2 18/S7.1 17/S7.1
- y n Louver base plate
20/S8.4
- y n Metal infill panels at guardrails - Sta-Clear series by McNichols per specification 05 50 00 section 2.2B
- y n Mounting plate at security desk
20/A10.4 15/A10.4
- y n Overhead door supports
9/A7.2 4/A7.2 3/A7.2
- y n Pipe bollards
A1.1 9/UA1.1
- y n Plate with Hilti KB-TZ
4/US6.1
- y n Pre manufactured access ladder
2/UA4.5 UA2.4
- y n Pre manufactured ships ladder
17/UA9.2 16/UA9.2 UA2.2
- y n Rainwater leader baseplate
8/A8.6
- y n Relocate roof ladder and safety cage
A4.3
- y n Shaped steel tee glazing support
4/A8.5 1/A8.5
- y n Ship's ladder by Alaco per specification 05 50 00 section 2.5
- y n Stainless steel bar grating at north tower balconies
3/A8.4 2/A8.4
- y n Stainless steel button cap
A/A6.8

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- y n Stainless steel cable bracing
A3.7
- y n Stainless steel handrail and guardrail assemblies per specification 05 50 00 section 2.2 C
A5.3 A5.2 A5.1
- y n Steel channel closure plate at channel
4/A2.16 1/A2.16
- y n Steel channel door head and jambs
4/UA8.2 3/UA8.2
- y n Toilet partition bracing
3/A9.3
- y n TS3x3x1/4" at partial height wall
6/A10.3
- y n Unistrut and threaded rods for projectors
12/A9.3 8/A9.3
- y n Unistrut at ceiling obstructions
8/A9.3 25/A9.3
- y n Unistrut plank grating with 12 ga bent plates
12/A10.1 11/A10.1 6/A10.1