PIE Terminal Improvements Phase III Project Inspection Log:

Threshold Inspections:

Date:	Report No.	Inspector:	Type:	Description	Pass/Fail	Comments:
				Reviewed photos of reinforcing steel for chiller slab provided by the CM. Result: Chiller pad reinforcing is approved for concrete placement.		
11/3/2016	Email Note	Jim Mehltretter	Threshold	Result. Chiller pad reilliorchig is approved for concrete placement.	Pass	Concrete to be placed via pump Friday, 11/4/16.
				for concrete placement. The contractor was instructed to backfill the undermined existing footing		
				with 1500psi lean concrete at column S30. 2. The contractor has begun demolition of the existing roof nears grids 6 to 8 north of grid E.	Reference	
				The contractor will issue an RFI regarding footings along grid E and conflicts with exiting	Descriptio	
9/9/2016	1	Jim Mehltretter	Threshold	footings.	n	
				As requested by Michael Cummings of The American Infrastructure Development, Master Consulting Engineers, Inc. (MCE) inspected the footings and grade beams at column lines 4 and 5	Reference	
				at columns S13, S14, S18 and S19. Reinforcing was installed in accordance with the permitted	Descriptio	
9/19/2016	Letter	Jim Mehltretter	Threshold	plans. The work was approved for concrete placement.	n	
				1. Inspected the footings at columns S1, S8, S9, S10, S17, S29 the footing extension at column S18, the footing extension at column S19. The F7.0 footing at column S1 was reinforced with (7)#6 in		
				accordance with the approved shop drawings. Reinforcing was installed in accordance with the		
				permitted plans. The work was approved for concrete placement.	Reference	
9/28/2016	3	Jim Mehltretter	Threshold	At column footing S3 chip and remove the abandoned electrical duct bank currently in the footing excavation.	Descriptio n	
3/20/2010	,	Jiii Weilerettei	Timesmora	Inspected the column footings at columns S21 and S22, S23.		
				2. Inspected and approved the slab on grade at the toilet rooms between grids 6 and 9.		
				 Steel erection is ongoing between grids 3 and 6 and grids C and D. The steel beams on grid D are closer to the existing building and will require field modification. Approval was given to filed cut 	Reference Descriptio	
10/7/2016	4	Jim Mehltretter	Threshold	the beams.	n	
				1. Inspected the first lift of wall reinforcing at the west stair. The reinforcing was installed in		
				accordance with the permitted plans. On the west wall there is a drain pipe above the top of footing. RFI 032 specified \$4@12" on center ties which were missing from the forms. The	Reference Descriptio	
10/13/2016	5	Jim Mehltretter	Threshold	contractor will add the bars and photograph.	n	
				Inspected the west stair wall reinforcing to the second floor. The reinforcing was installed in accor	Descriptio	
10/25/2016	6	Jim Mehltretter	Threshold	dance with the permitted plans. The wall was approved for concrete placement	n	
				Inspected the reinforcing installation for the slab on grade located between grids 4 to 7 from A to E and 3 to 4 from grid C to E. The contractor used Speed Dowels between adjacent pours in		
				accordance with the approved submittal. The contractor also drilled and epoxied reinforcing bars		
				into the edge of slab edges previously cast. The contractor will extend the vapor barrier under the		
11/7/2016	7	Jim Mehltretter	Threshold	pour stop along grid 4 for future slab on grade placement. The reinforcing was approved for concrete placement.	Descriptio n	
11//2010		Jiii Weilerettei	Timesmora	Inspected the installation of reinforcing steel for the 2nd lift at the west stair tower. The	Descriptio	
11/14/2016	8	Jim Mehltretter	Threshold	reinforcing was approved for concrete placement.	n	
				Inspected the installation of reinforcing steel for the slab on grade pour between the west stair		
				and grid line 6. The reinforcing was approved for concrete placement.		
				2. inspected the Nelson studs at the mechanical mezzanine between grids 3.1 and 4 and C and D.	Reference	
11/22/2016	0	Jim Mehltretter	Threshold	The stud installation is approved. The wire mesh was not yet installed and there was no bulkhead at the north edge. Concrete placement is not approved until the mesh and bulkhead is installed.	Descriptio	
11/22/2016	9	Jill Mellitretter	Tilleshold	Inspected the installation of reinforcing steel for the mezzanine slab pour. The wire fabric was	"	
				installed. The top reinforcing steel over the south girder in accordance with detail 5-101/S3.03 was		
				missing. The dowels for the house keeping pad in accordance with detail 3-203/S3.02 were missing. The housekeeping pad dowels can be epoxied after the pour. The slab was approved for	Reference Descriptio	
11/29/2016	10	Jim Mehltretter	Threshold	concrete placement with these items satisfied.	n	
				1. Inspected the installation of reinforcing steel for the housekeeping pad at the mezzanine slab;		
				reinforcing was approved for concrete placement. 2. Inspected the installation of the MC18x42.7 channels on both sides along grid line E. The		
				channel was cut near the center of the length to facilitate the installation of the members. The	Reference	
				splice was field welded in place. The field weld splice was inspected and approved. The	Descriptio	
12/6/2016	11	Jim Mehltretter	Threshold	contractor stated that the shoring engineer will be on site 12/7/2016 to inspect the progress of 1. Inspected the installation of reinforcing steel for column S11 and the grade beam GB1 and GB2,	n	
				reinforcing was approved for concrete placement.		
				2. Inspected the installation of the MC18x42.7 channels on both sides along grid line E. The		
				shoring was installed in accordance with the signed and sealed shoring drawing. Column footings have not yet been installed.		
				The south wall of the concrete stair tower near grid B 7 was chipped because there was a form	Reference	
				blowout while placing the concrete. The contractor chipped the wall and patched the area. The	Descriptio	
12/13/2016	12	Jim Mehltretter	Threshold	patch was approved. 1. Inspected the installation of reinforcing steel for column S5 and the wall footing WF2.0,	n	
				reinforcing was approved for concrete placement.		
				2. Inspected the pier footings at columns S25, S26, S27 and S28. Reinforcing was approved for	Reference	
12/14/2016	13	Jim Mehltretter	Threshold	concrete placement. 3. Inspected and approved the masonry stem wall along grid A above the slab on grade.	Descriptio n	
,,				Inspected the shear studs on the second-floor steel beams. The W24x94 from grid 3 to 4 on grid		
			1	B was missing 4 studs. The W16x26 on grid B from grid 6 to 7 was missing 5 studs on the east end		
				of the beam. The W16x26 purlin between grid 5 and 5.5. and grid A to B had two studs that were welded too close to the edge of the beam. Gave approval to "stick" weld the additional studs to		
			1	the beams.	Reference	
4 /5 /204=		Jim Mehltretter	Therest 11	The installation of the tube column supports for the MC18 on grid E were inspected and approved. The base plates shall be grouted prior to filling the excavation with concrete.	Descriptio	
1/6/2017	14	Jill Wentretter	Threshold	Inspected the shear studs on the second-floor steel beams that were non-conforming per report	-1	
				14. The W24x94 from grid 3 to 4 on grid B missing 4 studs. The W16x26 on grid B from grid 6 to 7		
				missing 5 studs on the east end of the beam. The W16x26 purlin between grid 5 and 5.5. and grid A to B had two studs that were welded too close to the edge of the beam. The studs cited above		
			1	were corrected and approved.	Reference	
				2. The W8x31 beam was welded below the W18x40 on grid C from 6 to 8. The beam installation	Descriptio	
1/18/2017	15	Jim Mehltretter	Threshold	was approved. 1. Inspected the slab infill at the mezzanine slab area. There is a 2" high piece of metal deck that	n	
				protrudes into the slab pour. The piece should be trimmed before the slab is poured. The slab was		
				approved for concrete placement with this fix.		
				Inspected the slab on grade pour at grids 3 to 4 and A to C. Slip dowels were not perpendicular along the construction joint. The dowels should be bend into the correct position. With this fix the		
				slab is approved for concrete placement.		
				3. Inspected the pour backs around the tube columns along grid E. Wood forms used to place the	Reference	
1/26/2017	16	Jim Mehltretter	Threshold	base plate grout should be removed prior to the pour. The pour backs are approved for concrete placement with this correction.	Descriptio n	
2/20/201/	10		mesilolu	IP		II.

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				Inspected and approved the repairs to the masonry wall in the mechanical room. Concrete may	Reference	
				be placed in the tie beam. Angle bracing should be added from the roof steel to the top of the		
4 /27 /2047	4.7				Descriptio	
1/27/2017	1/	Jim Mehltretter	Threshold	wall. The bracing should be coordinated with the ductwork.	n	
					_	
					Reference	
				1. Inspected and approved the tube welds and the metal stud installation at the north parapet	Descriptio	
2/10/2017	18	Jim Mehltretter	Threshold	wall along grid A from grids 3 to 7.	n	
				1. Inspected and approved the tube steel welds at the four roof skylights. 2. Several holes were cut		
				in the block at the east wall of the electrical room. The contractor was instructed to grout the	Descriptio	
3/2/2017	19	Jim Mehltretter	Threshold	holes solid.	n	
				1. Inspected the north wall of electrical Room 135. The chase way at Room 135 is in conflict with		
				existing construction. Observations indicate that the penetrations must be below the existing		
				concrete tie beam and over an existing opening in the wall. Instructed the contractor to submit a	Reference	
				plan and elevation showing the intent for review.	Descriptio	
3/30/2017	20	Jim Mehltretter	Threshold	Construction is proceeding along grid F, existing columns have been exposed.	n	
				1. Inspected the work in progress along grid F. The existing slab on grade has been cut providing	Reference	
				for the new footings. The detail W10/S4.05 will be modified to allow placement of the new footing	Descriptio	
4/26/2017	21	Jim Mehltretter	Threshold	on top of the existing footing.	n	
				1. Inspected the work in progress along grid F. The footing excavation is complete. The contractor		
				is drilling holes for rebar dowels to be installed in the footing and the face of the existing piers.		
				The footing reinforcing was on site but not yet installed. The C13X31 channels on each side of the		
				existing concrete beam have not been installed. The footing and the slab on grade may be poured		
				at the same time. The mix design shall be submitted for review. The new MC13 columns may bear		
				on the slab on grade.		
				2. The existing bearing wall has been removed in the last bay on the west end near the electrical	Reference	
				room. One shore has been installed, other shores specified in the shop drawing have not been	Descriptio	
5/10/2017	22	Jim Mehltretter	Threshold	installed. The shoring designer must be contacted ASAP to review the condition.	n	
5,10,2017			1111 0511010	U. Jegovi		
				Inspected the work in progress along grid F. The reinforcing has been installed and approved.		
				The pier reinforcing has been installed and approved. Concrete may be placed.		
				The vapor barrier has not been installed in the footing excavation. Termite spray has not been	Reference	
				applied in the footing excavation. The omission of the vapor barrier and termite spray does not	Descriptio	
5/16/2017	22	Jim Mehltretter	Threshold	affect the integrity of the structure. Their omission may however affect finishes and air quality.	n	
5/26/2017		Jim Mehltretter	Threshold	Exist C-Channel at Col-F Chkpnt-B: Ongoing work at the new footings and columns along grid F	Ongoing	
3/26/2017	24	Jiii Meiirieffel	mesholu	Inspected the steel installation at area B west side along grid F. The steel channels were	Oligonig	
				installed in accordance with the contract documents and were approved. The block bearing walls	Reference	
					Descriptio	
6/7/2017	25	Car Mark barren	Therebold			
6/7/2017	25	Jim Mehltretter	Threshold	B was not completed. The area will be inspected on 6/8.	n	

Quality Assurance Inspections by Tierra:

Date:	Test No.	Inspector:	Type:		Pass/Fail	Comments:
7/29/2016	1	Tierra	Density	36' W of Structure S-4 (1st Lift of Backfill)	Pass	
7/29/2016	2	Tierra	Density	80' W of Structure S-4 (1st Lift of Backfill)	Pass	
7/29/2016	3	Tierra	Density	90' W of Structure S-4 (2nd Lift of Backfill)	Pass	
7/29/2016	4	Tierra	Density	40' W of Structure S-4 (2nd Lift of Backfill)	Pass	
8/16/2016	5	Tierra	Density	30' W of Gate-8 & 50' S of Roof Drain	Pass	
8/16/2016		Tierra	Density	60' N of Gate-39 & 80' W of Electrical Bldg.	Pass	
8/24/2016	7	Tierra	Density	50' N & 20' W of NE Corner of Existing Bldg.	Pass	Finish Subgrade
8/24/2016	8	Tierra	Density	60' N & 60' W of NE Corner of Existing Building	Pass	Finish Subgrade
9/9/2016	MP01	R. Bailey "Rufus"/Tierra	Modified Proctors	Sample MP01 - Footing at Line F-12	N/A	Moisture Density Relationship Tests
9/9/2016	MP02	R. Bailey "Rufus"/Tierra	Modified Proctors	Sample MP02 - Footing at Line F-16	N/A	Moisture Density Relationship Tests
5/2/2017	MP03	R. Bailey "Rufus"/Tierra		Sample MP03 - Security Checkpoint-B Footings and Slab Subgrade	N/A	Moisture Density Relationship Tests
9/20/2016	Set No.1	CQC/Tierra	Concrete	Terminal Addition Footings	Pass	,
10/11/2016	Set No.2	M. Davis/Tierra	Concrete	Footing	Pass	
10/17/2016	Set No.3	R. Bailey "Rufus"/Tierra		Footing at Line D-5	Pass	
10/18/2016		R. Bailey "Rufus"/Tierra		Pour Back of Diamonds Around Columns	Pass	
9/28/2016	Set No.4	M. Davis/Tierra	Concrete	Footing	Pass	
10/20/2016	Set No.5	R. Bailey "Rufus"/Tierra	Concrete	Elevator Pit Slab	Pass	
10/4/2016	Set No.6	R. Bailey "Rufus"/Tierra	Concrete	Footing for Elevator Walls	Pass	
11/28/2016	Set No.7	R. Bailey "Rufus"/Tierra	Concrete	Elevator Shaft Walls	Pass	
10/11/2016	Set No.8	R. Bailey "Rufus"/Tierra	Concrete	Slab on Grade @ Men's Restrooms	Pass	
11/4/2016	Set No.9	R. Bailey "Rufus"/Tierra	Concrete	Chiller Slab	Pass	
11/8/2016	Set No.10	R. Bailey "Rufus"/Tierra	Concrete	Concrete pour 10'N and 20'E of SW corner of Phase-1 Buildout.	Pass	
11/8/2016	Set No.11	R. Bailey "Rufus"/Tierra	Concrete	15'S & 20'W of NE corner of Phase-1 Buildout.	Pass	
11/17/2016	Set No.12	R. Bailey "Rufus"/Tierra	Concrete	CMU Cell Grout Stairwell Wall	Pass	
11/22/2016	Set No.13	R. Bailey "Rufus"/Tierra	Concrete	Floor slab at stairwell	Pass	
11/30/2016	Set No.14	K. Magee/Tierra	Concrete	Mezzanine Slab	Pass	
12/6/2016	Set No.15	E. Tirado/Tierra	Concrete	Mezzanine Slab, Gate #7	Pass	
12/15/2016	Set No.16	R. Bailey "Rufus"/Tierra	Concrete	Footings S-5, S-11, S-25, S-26, S-27 & S-28	Pass	
1/27/2017	Set No.17	R. Khan/Tierra	Concrete	Slab on Grade (Phase-1) NE Corner of SOG	Pass	
1/27/2017	Set No.18	R. Khan/Tierra	Concrete	SE Corner of Mezzanine Deck	Pass	
2/3/2017 4/24/2017	Set No.20	R. Khan/Tierra J. Maw/Tierra	Concrete Concrete	Slab on Grade, Diamond Shaped Blockouts Around Columns, NE Corner of Slab Fire Hydrant Apron UPS Location	Fail Pass	Per structural engineer this was acceptable at 3,701 PSI vs 4,000 PSI design strength requirement.
5/17/2017	Set No.21	R. Khan/Tierra	Concrete	Area #4 Security Checkpoint-B, Monolithic Slab at Footings	Pass	High Early Mix
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12/14/2016		Tierra	Density	Density Test -Footing at Grid Line S-5	Pass	
12/14/2016	17	Tierra	Density	Density Test -Footing at Grid Line S-11	Pass	
12/20/2016	18	Tierra	Density	5ft NW of S-5	Pass	
12/20/2016	19	Tierra	Density	4'W of Line between S-5 and S-11	Pass	
12/20/2016	20	Tierra	Density	5'NW of Gate-8 Outside Exit Door	Fail	Contractor to re-work area.
				Underside of Decking Areas:		QA thickness checks performed but direction with
	1			Bounded by Lines A to B and Lines 5 to 6.	l	respect to under deck thickness requirement
	1			Bounded by Lines B to C and Lines 5 to 6.	l .	minimums being questioned by Contractor at time
6/15/2017	1	M Shirkey/Ardaman/Tie	Fire Spray Thickness	Bounded by Lines A to B and Lines 4 to 5.	Pending	test performed.
	1			Columns: B-6 and D-3	l	QA thickness checks performed but direction with
	1			Beams: Bounded by lines B to C and Lines 4 to 5.	l	respect to under deck thickness requirement
				Bounded by Lines B to C and west of Line 3.		minimums being questioned by Contractor at time
6/15/2017	2	M Shirkey/Ardaman/Tie	Fire Spray Thickness	Bounded by Lines 3 to 4 and south of Line E.	Pending	test performed.

				Excerpt from SFRM Report No.1: Most of the tests passed with the following exceptions: 1. Underside of the steel deck: The test representing the area bounded by Lines B to C and Lines 3 to 4. The overall average thickness passed however one individual making up the average was more than 25% below the required thickness. 2. Beam: Bounded by Lines B to C and Lines 4 to 5. The overall average passed however 6 individual readings which made of the average were more than 25% below the required thickness. 3. Beam: Bounded by Lines 3 to 4 and south of Line E. The overall average failed and 9 individual		Summary report of 6/15/17 fire spray testing
6/21/2017	1	M Shirkey/Ardaman/Tie	Fire Spray Thickness	readings which made of the average were more than 25% below the required thickness.	Varies	reports.
			Ultrasonic Weld	Ultrasonic inspection of all full penetration, moment welds with a flange thickness of 5/16 or		
10/25/2016	1	Tierra/Ardaman	Inspections	larger. No rejectable indications were noted during the inspection.	Pass	
				Performed visual inspection of welds at six (6) moment connections with a flange thickness less than 5/16" in thickness. The locations were 126B2-98B2 (3 locations) and 81B2-98B2 (3 locations).		
			Ultrasonic Weld	The field welds were found to confirm to the visual acceptance criteria found in the American		
10/25/2016	1	Tierra/Ardaman	Inspections	Welding Society (AWS) D1.1 Structural Welding Code.	Pass	