Appendix D Striping Floor Plans

PHILADELPHIA PARKING AUTHORITY



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR





PHILADELPHIA INTERNATIONAL AIRPORT



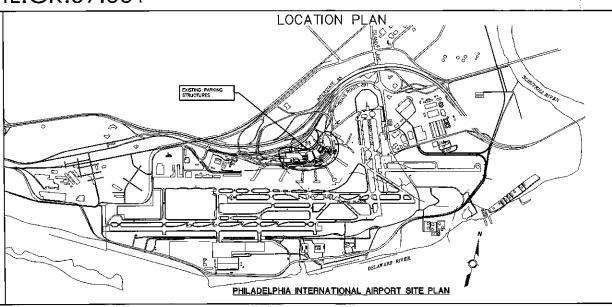
CONCRETE RESTORATION & REPAIR PROGRAM AT PHL GARAGES

BID NO. NPHL.CR.09.001

INDEX OF DRAWINGS

		System Drawing List	
File Name	Dwg #	Drawing Title	Scale
T-I.	T-1	COVER SHEET	N/A
AS-1	AS-1	SITE/VICINITY PLAN	1/128"=1"-0"
\$0.0	S0.0	GENERAL NOTES, ABBREVIATIONS & SYMBOLS	N/A
51.0	51.0	A WEST GROUND LEVEL PLAN	1/32"=1"-0"
\$1,1	51 ,1	A WEST TIER 1 PLAN	1/32"=1"-0"
51.2	51.2	A WEST TIER 2 PLAN	1/32"=1"-0"
SI.3	91.3	A WEST TIER 3 PLAN	1/32"=1"-0"
51.4	\$1,4	A WEST TIER 4 PLAN	1/32 =1 -0
51.5	S1.5	A WEST TIER 5 PLAN	1/32"=1"-0"
51.6	\$1.6	A WEST TIER 6 PLAN	1/32'=1'-0'
51.7	51.7	A WEST TIER 7 PLAN	1/32"=1"-0"
92.0	52.0	A EAST # B GROUND LEVEL PLAN	1/32"=1"-0"
9 2.1	S2.I	A £AST & B TIER I PLAN	1/32*=1'-0"
52.2	52.2	A EAST & B TIER 2 PLAN	1/32"=1'-0"
52.3	S2.3	A EAST # B TIER 3 PLAN	1/32"-1"-0"
52.4	52.4	A EAST € 5 TIER 4 PLAN	1/32"=1'-0"
52. 5	52,5	A EAST # B TIER 5 PLAN	1/32"=1"-0"

93.0	53.0	C GROUND LEVEL PLAN	1/32'=1'-0
53.1	\$3.1	C TIER I PLAN	1/32'=1'-0
53.2	53.2	C TIER 2 PLAN	1/32 =1 -0
53.3	93.3	C TIER 3 PLAN	1/32"=1"-0
93,4	S3.4	C TIER 4 PLAN	1/32"=1"-0
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54.0	S4.0	D GROUND LEVEL PLAN	1/32"=1'-0
S4.1	54.1	D TIER I PLAN	1/32'=1'-0
54.2	54.2	D TIER 2 PLAN	1/32'=1'-0
54.3	\$4.3	D TIER 3 PLAN	1/32*=1'-0
54.4	54.4	D TIER 4 PLAN	1/32"=1'-0
\$4.5	94.5	D TIER 5 PLAN	1/32⁴≠1'(
55.0	55.0	E ¢ F GROUND LEVEL PLAN	1/32"=1"-0
9 5.1	95.1	E ¢ F TIER 1 PLAN	1/32'=1'-0
55.2	55.2	E # F TIER 2 PLAN	1/32'=1'-0
95.3	55.3	E & F TIER 3 PLAN	1/32"=1'-6
55.4	55.4	E # F TIER 4 PLAN	1/32"=1"
55.5	S5.5	E & F TIER 5 PLAN	1/32' ≄1' −1
55.6	\$5.6	E & F TIER & PLAN	1/32'=1'-1
95.7	55.7	E # F TIER 7 PLAN	1/32"=1"-1
96.0	56.0	REPAIR DETAILS	3/4"=1'-0
56.1	S-6.1	REPAIR DETAILS	3/4"=l'-0
56.2	56.2	REPAIR DETAILS	3/4"=1'-0



CONCRETE RESTORATION
REPAIR PROGRAM
AT PHL GARAGES

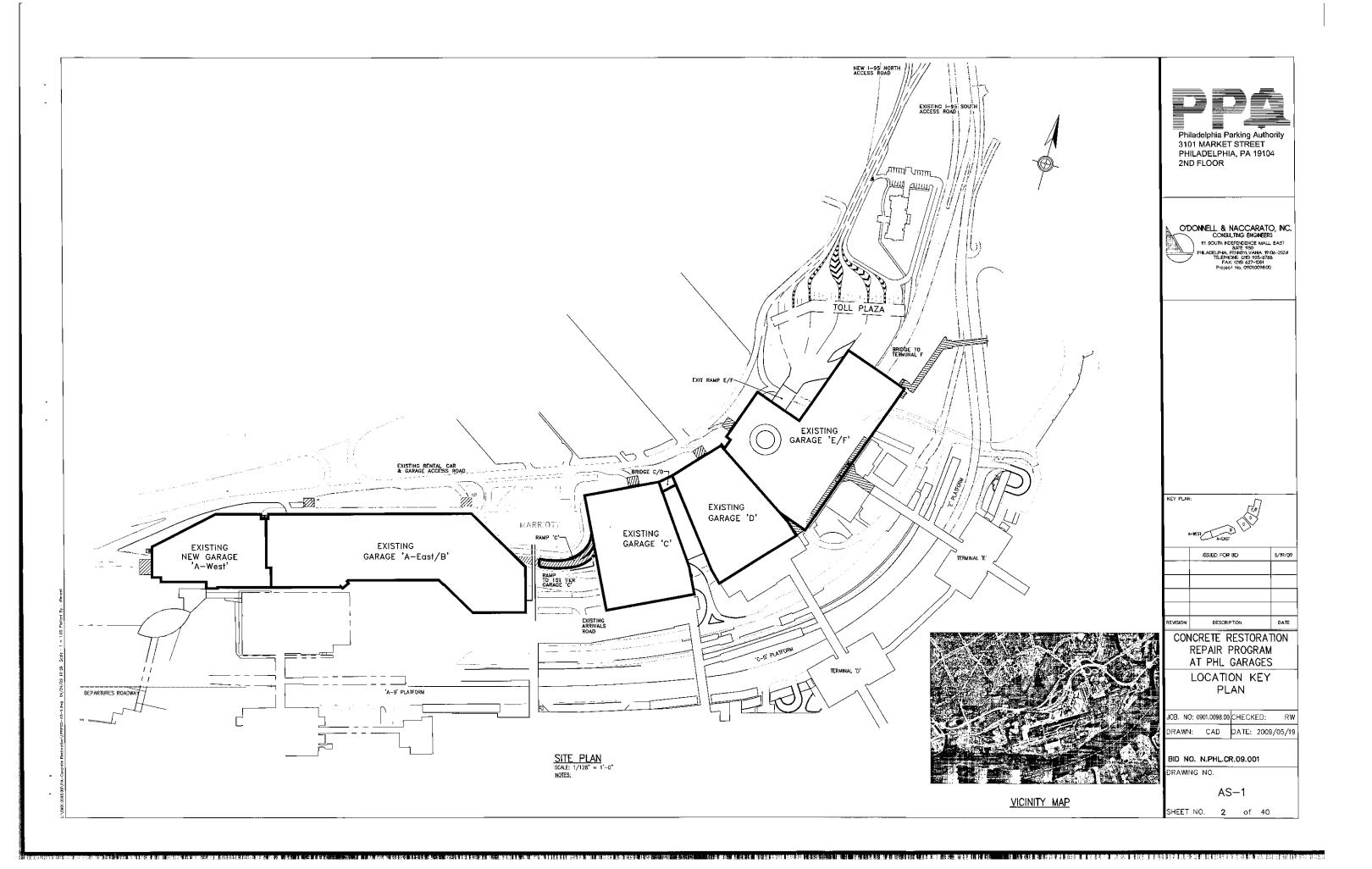
COVER SHEET

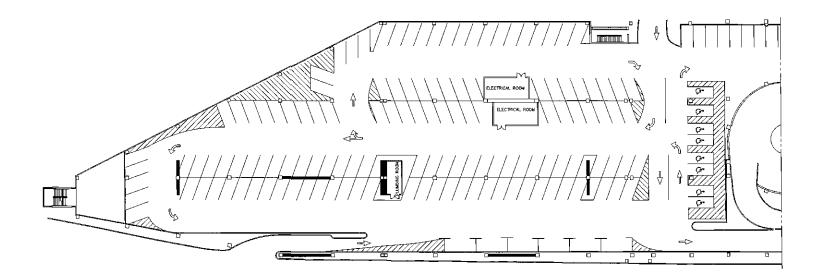
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HEET NO. 1 of 40





GARAGE A WEST GROUND LEVEL PLAN

SCALE : 1/32"=1'-0"

NOTES: TO CALL TO SEE DIMENSIONS ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SURFACES WITH MANKER, ROD. CHAIN OR APPROPRIATE TOOL TO DETECT DELAMINATIONS AND DEFECTS, ALL SUPPORTED FLOOD SURFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW DO NOT SHOW A FLOOD OF CELLING SHOULD AND CHAIN THE PROPRIATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DIVINE.

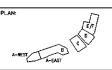
2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'SG.D, SG.1 & SG.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL BNONEERS
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PLADELPHA PENSIVLYMA 19106-2624
TELEPHONE CES 1925-3786
FAX (215) 627-1051
O'MICOPS.00



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CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST GROUND LEVEL PLAN

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BID No. N.PHL.CR.09.001

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S1.0

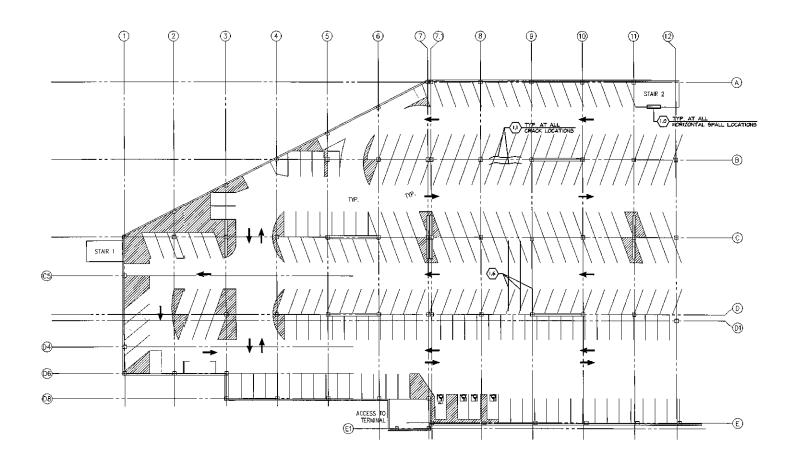
SHEET NO. 4 of 40

GRAPHIC SCALE

(IN 7825)

1/76 0mb - y-0' n.





GARAGE A WEST TIER 1 PLAN

SCALE : 1/32"=1'-0"

DITES

REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF
FERBERS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.

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- 2) (-) INDICATES REPAIR TYPE.
- 3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	30 SF
1.1	HORIZONTAL CRACK REPAIR	150 LF
1.5≭	CLEAR PENETRATING SEALER	LUMP SUM
1.6*	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1**	CONTROL JOINT REPAIR	LUMP SUM
16.2%	COME SEALANT DEDATO	MILS SMILL

LUMP SUM

**CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO
PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

OTONNELL & NACCARATO, NC.
STRUCTURAL ENGNERS
III SOUTH NOEPEDENICE MALL EAST
JULY 950
PRACEDHAR, PENSYLVANA 1900-2824
TECHNOR CUS 925-7061
6AX 459-647-7061

KEY PLAN:

PLAN:

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DESCRIPTION	DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST TIER 1 PLAN

JOB. NO: 0901.0098 CHECKED: RW
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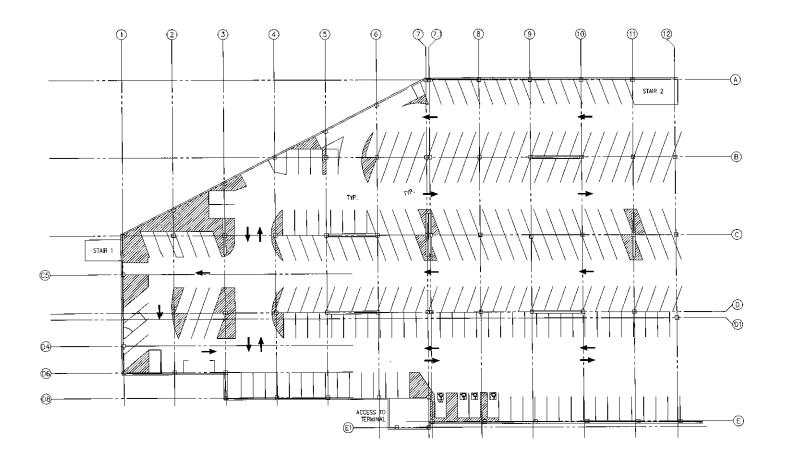
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S1.1

SHEET NO. 5 of 40





GARAGE A WEST TIER 2 PLAN

SCALE : 1/32"=1'-0"

DIREPAIR LUCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE INLY, EXTENT AND LICATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN IN THE DRAWNING DEPENDING UPON FIELD CONDITIONS.
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2) - INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	50 SF
1.1	HORIZONTAL CRACK REPAIR	120 SF
1.5=	CLEAR PENETRATING SEALER	LUMP SUM
1.6×	TEE TO TEE JOINT REPAIR	LUMP SUN
1.6.1*	CONTROL JOINT REPAIR	LUMP \$UM

16.2* COVE SEALANT REPAIR LUMP SUM
**CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO
PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRICTURAL ENGNEERS
III SOUTH NOBENDENCE MALL EAST
SUIT 550
PHLADELPHA PENISYLVANA 1906-2524
FERFORE 219 725-5788
FAX C65-037-051

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CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST TIER 2 PLAN

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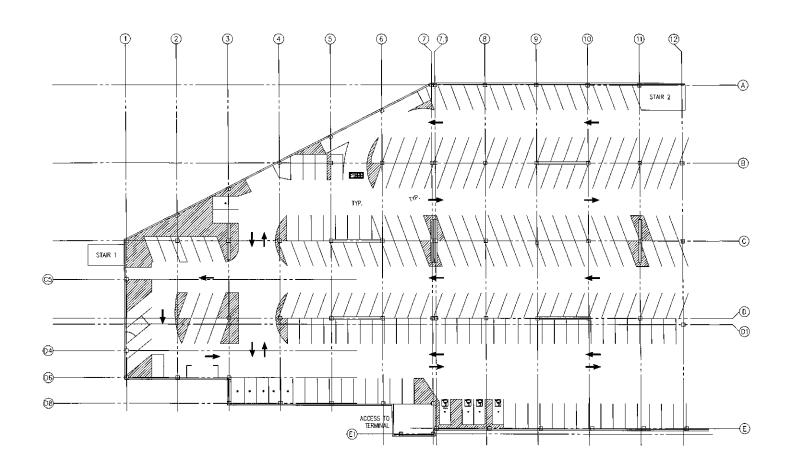
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DRAWING NO.

S1.2

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GARAGE A WEST TIER 3 PLAN

SCALE: 1/32"=1'-0"

NOTIES:

DEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY, EXTENT AND LOCATION OF REPAIRS MAY YARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS SHOWN FROM A SHOWN ON THE DRAWING AND DEFECTS. ALL SUPPORTED FILIDS SUFFACES ARE TO BE SOUTHNED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW DO NOT SHOW A FLUOR OF CELLING SHOWN OF THE DEFENDATION ARE TO BE MARKED FOR DEBULITION BY CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DWHER.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTIT1ES
1.0	HDRIZONTAL SPALL REPAIR	80 SF
1.1	HURIZUNTAL CRACK REPAIR	200 LF
1.5#	CLEAR PENETRATING SEALER	LUMP SUM
1.6₩	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1*	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM
1.0	CONNECTOR CLIP REPAIR	1 EA

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL ENGNEERS
III SOUTH INDEPENDENCE MALL EAST
BUTE 950
PILADELPHAR PENSYLVANA 19706-2524
THE PENOR C 1981 975-978
FOYUCO978.00

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REVISION	DESCRIPTION	DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST TIER 3 PLAN

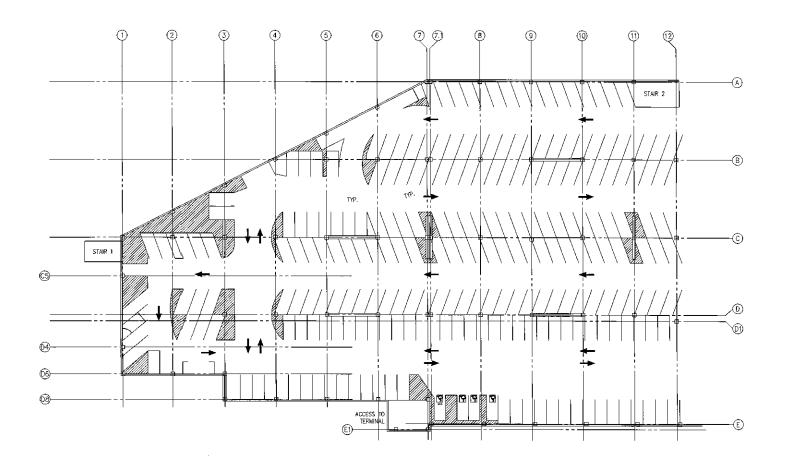
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S1.3

SHEET NO. 7 of 40



GARAGE A WEST TIER 4 PLAN

SCALE : 1/32"=1'-0"

SOFTEL IVERTICATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY, EXTENT AND LOCATION OF REPAIRS UNCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM VHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUNDED AND CELLING DELAMINATIONS AND DEFECTS. ALL SUPPORTED FLOOR SURFACES ARE TO BE SOUNDED AND CELLING DELAMINATIONS SHOWN OF THE PROPERTY OF THE DRAWINGS SHOWN OF THE DRAWING OF THE DRAWING SHOWN A FLOOR OF THE DRAWING O

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'SG.U, SG.1 & SG.2' FOR REPAIR DETAILS.

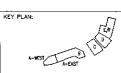
LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	50 SF
1.1	HORIZONTAL CRACK REPAIR	200 LF
1.5*	CLEAR PENETRATING SEALER	LUMP SUM
1.6=	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1=	CONTROL JOINT REPAIR	LUMP SUM
1.6.2%	CHAR SENIANT DEPAIR	MILS CMILL

CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGNERS
11 SOUTH INDEPENDENCE MALL EAST
SITE 960
PHILADELPHA, PENSYLVANA \$7102-2524
TELEPHORE (25) 923-3788
FAX (25) 674-1051
09510098-00



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CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST TIER 4 PLAN

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DRAWN: CAD DATE: 2009/05/09

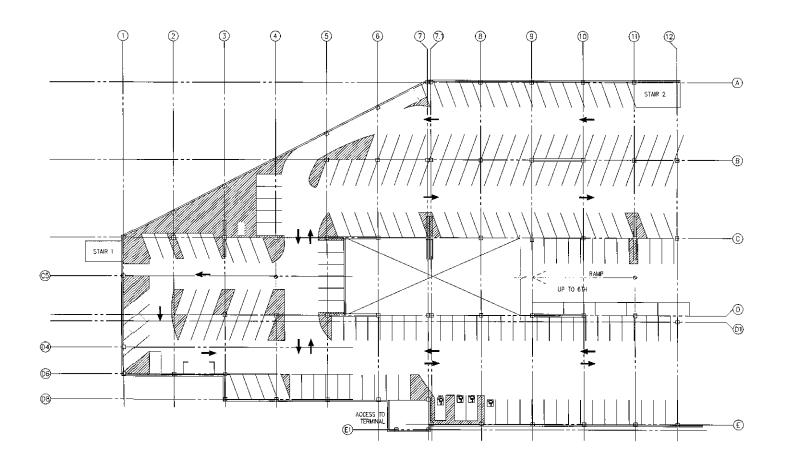
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DRAWING NO.

S1.4

SHEET NO. 8 of 40





GARAGE A WEST TIER 5 PLAN

SCALE : 1/32"=1'-0"

NOTES!

DIFFER LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DILY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SUFFACES WITH HAMMER, ROD., CHAIN OR APPEOPRIATE TOOL IT DETECT ELLAMINATIONS AND DEFECTS ALL SUPPORTED FLOOD SUFFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SUPPLIED, REGARDLESS OF WHETHER THE DRAWINGS SHOW OR BU MUT SHOW A FLOOR OF CELLINGS SPALED. IN THE CURITY, THE LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR, PRICE TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DYMER.

2) (-) INDICATES REPAIR TYPE.

3> SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.

LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	60 SF
1.1	HORIZONTAL CRACK REPAIR	140 LF
1.5≅	CLEAR PENETRATING SEALER	LUMP SUM
1.6≖	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1×	CONTROL JOINT REPAIR	TUMB ZUM
1.6.2≭	COVE SEALANT REPAIR	LUMP SUM

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRICTURAL ENGINERS
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SUFF 950
PRADELPHAR FENSILVANA 1970-5254
TELEPHORE CERS 975-9788
FAX 429 437-051
ORGOGRADO

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CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE A WEST TIER 5 PLAN

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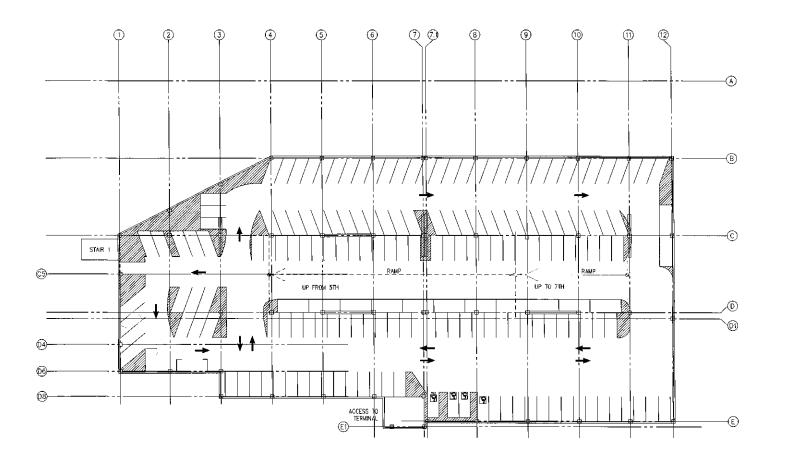
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S1.5

SHEET NO. 9 of 40





GARAGE A WEST TIER 6 PLAN

SCALE : 1/32"=1'-0"

NITIES:

D) REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY. EXTENT AND LOCATION OF REPAIRS MAY VARY FROM VMAIT IS SHOWN ON THE DRAVINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS IT SOURD SURFACES WITH HAMMER, RID., CHAIN OR APPERDRAITE TOOL TO DETECT DELAMINATIONS AND DEFECTS ALL SUPPRIED FLOOR SURFACES AND TO BE TO SURFACES AND TO BE TO SURFACES AND TO SURFACE AND TO S

2) _ INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

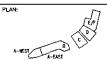
	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	60 SF
1.1	HORIZONTAL CRACK REPAIR	140 LF
1.5≖	CLEAR PENETRATING SEALER	LUMP SUM
1.6*	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1*	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM

ACONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
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SUTE 950
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TELEPHONE (2/5) 925-3788
FAX. (275) 627-031
D9010098.00



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CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE A WEST TIER 6 PLAN

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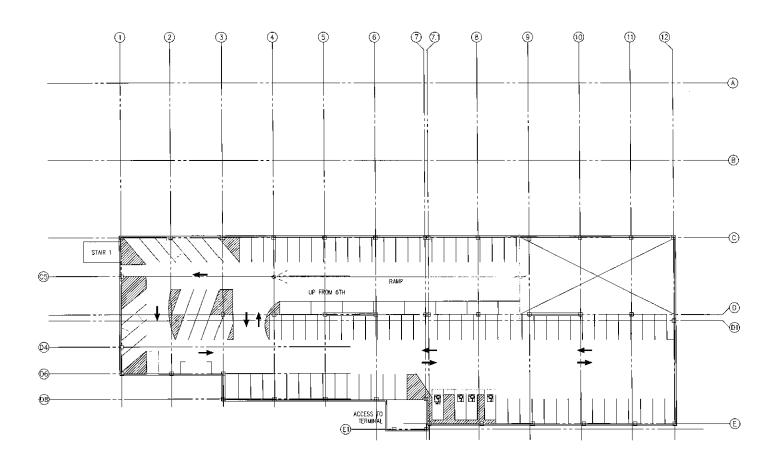
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DRAWING NO.

S1.6

SHEET NO. 10 of 40





GARAGE A WEST TIER 7 PLAN

SCALE : 1/32"=1'-0"

NOTIES:

DIESTAL LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS CONTRACTOR IS TO SOUND SUBFACES WITH HAWKER, ROD, CHAIN OR APPROPRIATE TOOL TO DETECT DELAMINATIONS AND DEFECTS ALL SUPPRIED FILLD SUPFACES AND TO BE ON THE CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHITTER THE DRAWINGS STOW ARE TO BE SURVEYED. CELLINGS OF THE DRAWINGS STOWN ARE TO BE SURVEYED. THE DRAWINGS STOWN ARE TO BE SURVEYED FOR DEMOLITION OF THE DRAWINGS STOWN ARE TO BE WARKED FOR DEMOLITION BY CONTRACTOR, PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DWER.

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2) (Indicates Repair Type.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	80 25
1.1	HORIZONTAL CRACK REPAIR	140 LF
1.5≭	CLEAR PENETRATING SEALER	LUMP SUM
1.6×	TEE TO TEE JOINT REPAIR	MUZ 9MUJ
1.6.1**	CONTROL JEINT REPAIR	LUMP SUM
1624	COVE SEALANT DEBATE	HING CHILL

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL ENGNEERS
11 SOUTH NODERNOENCE WALL EAST
JULY 500
PHLADELPHA, PENSYLVANA 19:00-2524
TELEPHONE (259 925-3798
FAX (258 627-305)
O9010098.00

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A WEST TIER 7 PLAN

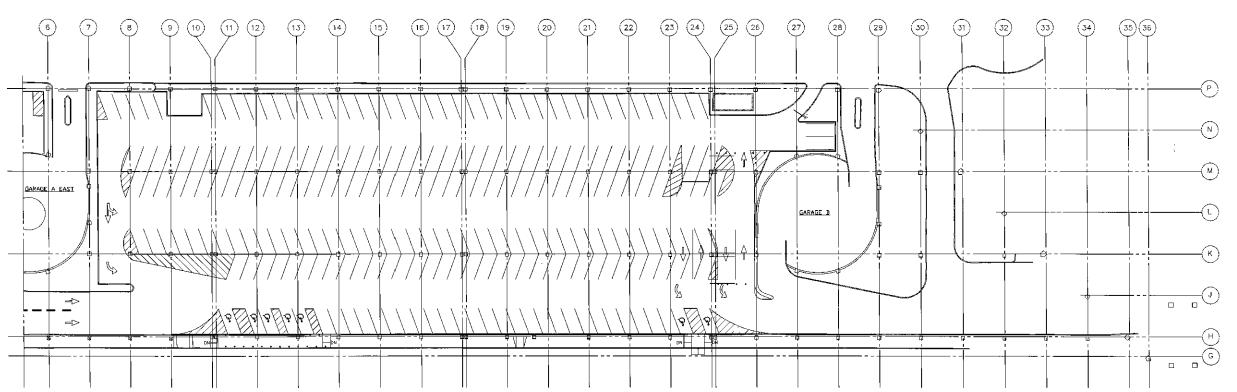
JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.00

DRAWING NO.

S1.7

SHEET NO. 11 of 40



GARAGE A EAST & B GROUND LEVEL PLAN

SCALE : 1/32"=1'-0"

NOTES:
NOTES:
NOTES:
DEPARE LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CUNTRACTURE IN TO SOUND SURFACES WITH ANAMER, ROD., CHAIN OR APPENDING THE TOOL TO DETECT
BELANDATIONS AND DEFECTS ALL SUPPORTED FILLOW SURFACES NOR IT DE SOUMMED AND CELLINGS
VISUALLY SURVEYOR DEGARDLESS OF WICHTER THE DRAWINGS SHOW OR DO NOTED THE TOOL OR
CELLING SPALL IN THE VICINITY. THE UNITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION
BY CONTRACTOR, PRICE TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND
OWNER.

2) __ INDICATES REPAIR TYPE.

3) SEE DRAWING 'SG.D, SG.1 & SG.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.4	VERTICAL CONCRETE SPALL REPAIR	50 SF
1.7	DVERHEAD CONCRETE SPALL REPAIR	100 SF
1.10≍	NEW WATERPROOFING MEMBRANE & HELIX A-EAST AND B, RAMP UP/DOWN	LUMP SUM

REUNTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.





3101 MARKET STREET
PHILADELPHIA, PA 19104
2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL BYSNEERS
11 SOUTH MODEPIDENCE MALL EAST
STEE SOUTH MODEPIDENCE MALL EAST
EACH COST AND STATE
FINANCE COST AND STATE
OF THE PRICE CO

KEY PLAN:

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A EAST & B GROUND LEVEL PLAN

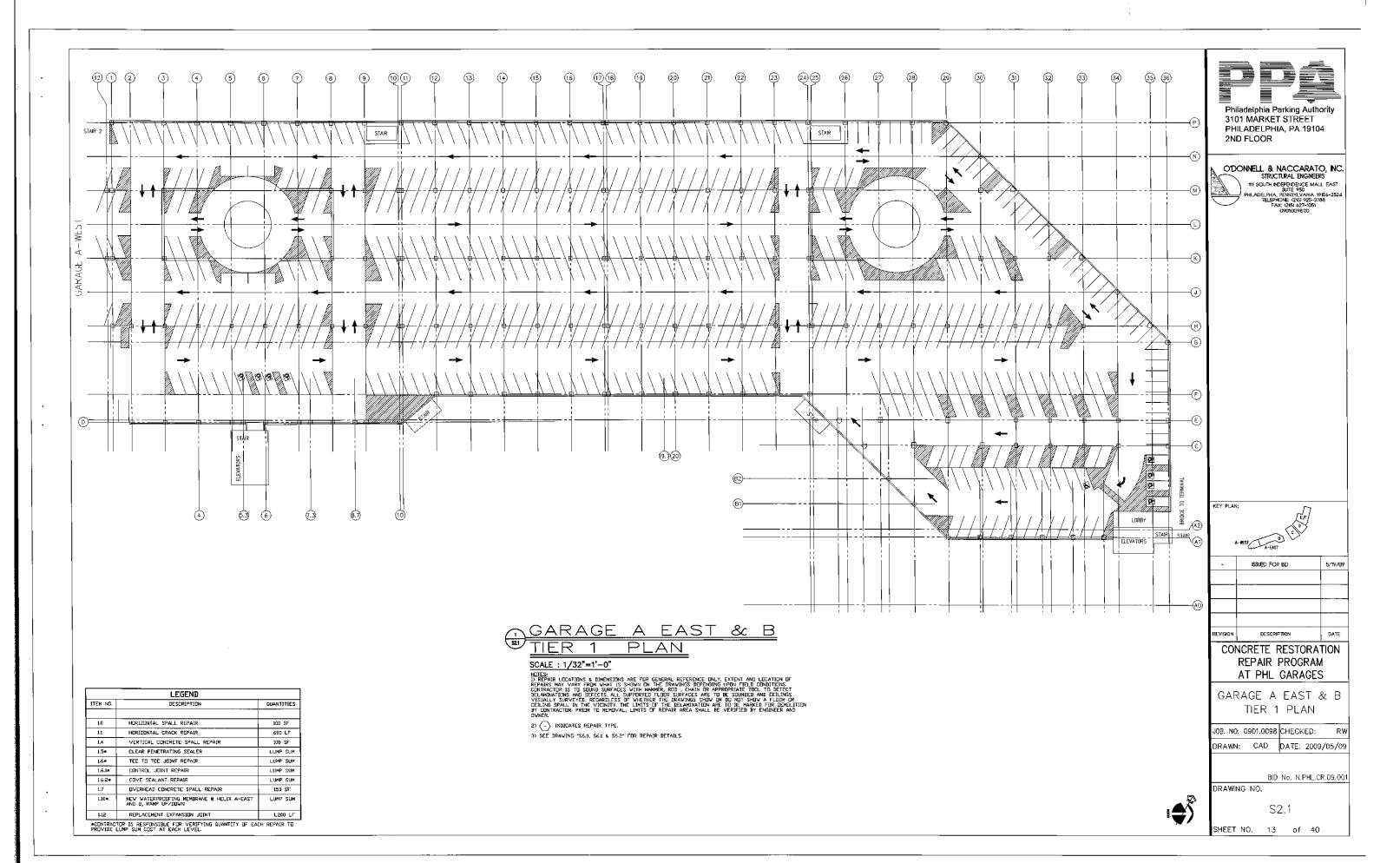
JOB. NO: 0901,0098 CHECKED:

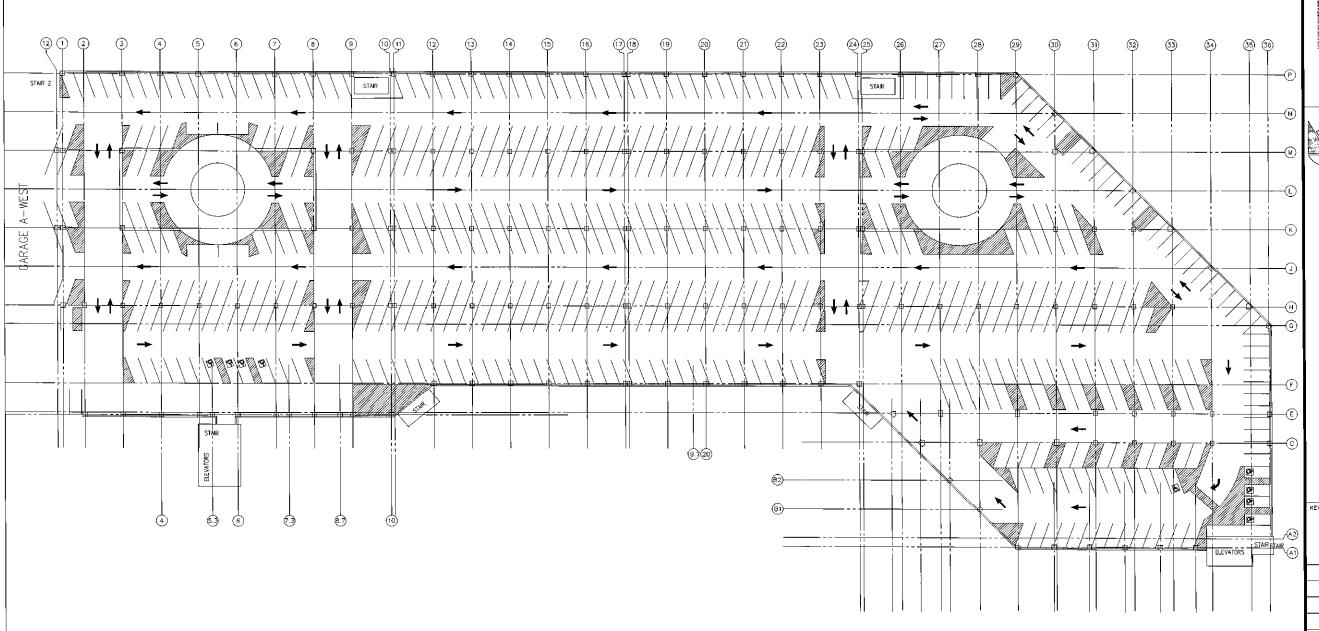
DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001
DRAWING NO.

S2.0

SHEET NO. 12 of 40





GARAGE A EAST & B

SCALE : 1/32"=1'-0"

NOTES:

DEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY. EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SURFACES WITH HANNER, ROD., CHAIN OR APPROPRIETE TOOL TO BELECT BELAMINATIONS AND DEFECTS. ALL SUPPORTED FLOOD SURFACES ARE: TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW OR DO NOT SHOW A FLOOR OF CELLING SPALL IN THE VICINITY. THE LIMITS OF THE BELAMINATION ARE TO BE MARKED FOR DEPOLITION BY CONTRACTOR. PRIOR TO REMOVE, LIMITS OF THE BELAMINATION ARE TO BE MARKED FOR DEPOLITION BY CONTRACTOR. PRIOR TO REMOVE.

2) - INDICATES REPAIR TYPE.

3) SEE DRAWING 'SG.O, SG.I & SG.2' FOR REPAIR DETAILS.

112 REPLACEMENT EXPANSION JOINT 1,200 LF
**CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO
RRIVIDE LUMP 3UM COST AT EACH LEVEL.

NEW WATERPROOFING MEMBRANE @ HELIX A-EAST AND B, RAMP UP/DOWN

LEGEND

DESCRIPTION

100 SF

500 LF

100 SF

LUMP SUM

LUMP SUM

LUMP SUM

LUMP SUM

100 SF

LUMP SUM

1.0 HORIZONTAL SPALL REPAIR

1.1 HORIZUNTAL CRACK REPAIR

1.6≇

1.6.1⊭

1.6.2*

1.7

1.10≭

1.5★ CLEAR PENETRATING SEALER

1.4 VERTICAL CONCRETE SPALL REPAIR

TEE TO TEE JOINT REPAIR

CONTROL JOINT REPAIR

COVE SEALANT REPAIR

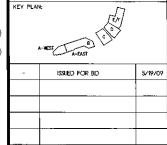
OVERHEAD CONCRETE SPALL REPAIR



PPÁ

Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL BNGNEERS
11 SOUTH NDEPENDENCE MALL EAST
STEE SOON CONTROL PLANT FOR PART OF THE PENDENCE (125) 925-3708
FEAX (15) 627-0051
ONOLOGISOR



CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

DESCRIPTION

GARAGE A EAST & B TIER 2 PLAN

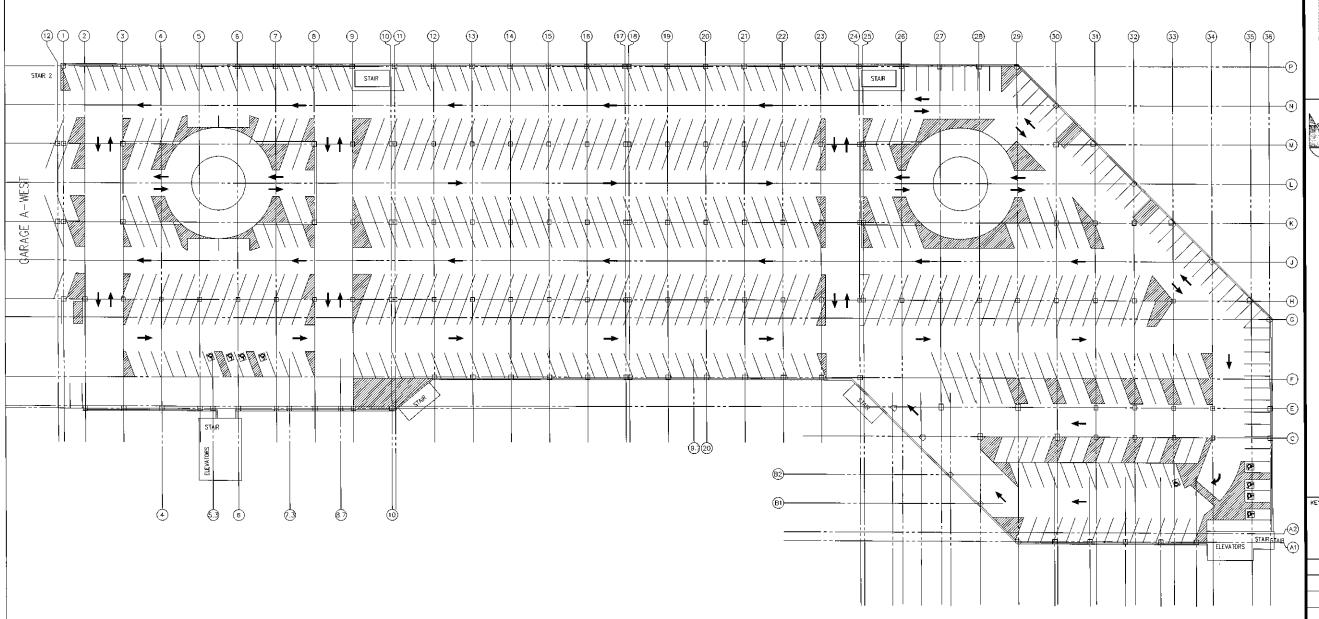
JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

DRAWING NO.

S2.2

SHEET NO. 14 of 40



GARAGE A EAST & B TIER 3 PLAN

TTEM NU.	DESCRIPTION	QUANTITIES
1.0	UTOTTOWN OP IN TERMS	
1.0	HORIZONTAL SPALL REPAIR	225 SF
1.1	HORIZONTAL CRACK REPAIR	600 LF
1.4	VERTICAL CONCRETE SPALL REPAIR	100 SF
1.5≅	CLEAR PENETRATING SEALER	LUMP SUM
1.6≌	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1×	CONTROL JOINT REPAIR	LUMP SUM
1.6.2≖	COVE SEALANT REPAIR	LUMP SUM
1.7	DVERHEAD CONCRETE SPALL REPAIR	150 SF

20 EA

LUMP SUM

1,200 LF

LEGEND

**CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

NEW WATERPROOFING MEMBRANE @ MELIX A-EAST AND B, RAMP UP/DOWN

OVERHEAD CLIP REPAIR

1.12 REPLACEMENT EXPANSION JOINT

1.0

1.10=

SCALE : 1/32"=1'-0"

MOTES:

NOTES IN COLOR OF THE MEMORY OF THE BRAVINGS DEPENDING UPON FIELD CONDITIONS.

DEPARTS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CONTRACTOR IS TO SOUND SUFFACES WITH HAWKER, RCD., CHAIN DRAWFORPERIFACT TUDE, TO BETECT DELAMINATIONS AND DEFECTS, ALL SUPPORTED FILLOW SUPFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW OF DID NOT SHOW A FLORE OF CELLING SPALL IN THE COUNTY, THE URITS OF THE SELAMINATION ARE TO BE MARKED FOR EXPOLITION BY CONTRACTOR, PRIOR TO REMOVE, LMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DWEER.

2) - INDICATES REPAIR TYPE.

3) SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL ENGNEERS

111 SOUTH NDEPENDENCE MALL EAST
112 SOUTH NDEPENDENCE MALL EAST
112 SOUTH NDEPENDENCE MALL EAST
112 SOUTH NDEPENDENCE MALL EAST
113 SOUTH NDEPENDENCE MALL EAST
114 SOUTH NDEPENDENCE MALL EAST
115 SOUTH NDEPNDENCE MALL EAST

KEY PLAN:

- ISSUED FOR BID 5/19/09

CONCRETE RESTORATION
REPAIR PROGRAM
AT PHL GARAGES

DESCRIPTION

GARAGE A EAST & B TIER 3 PLAN

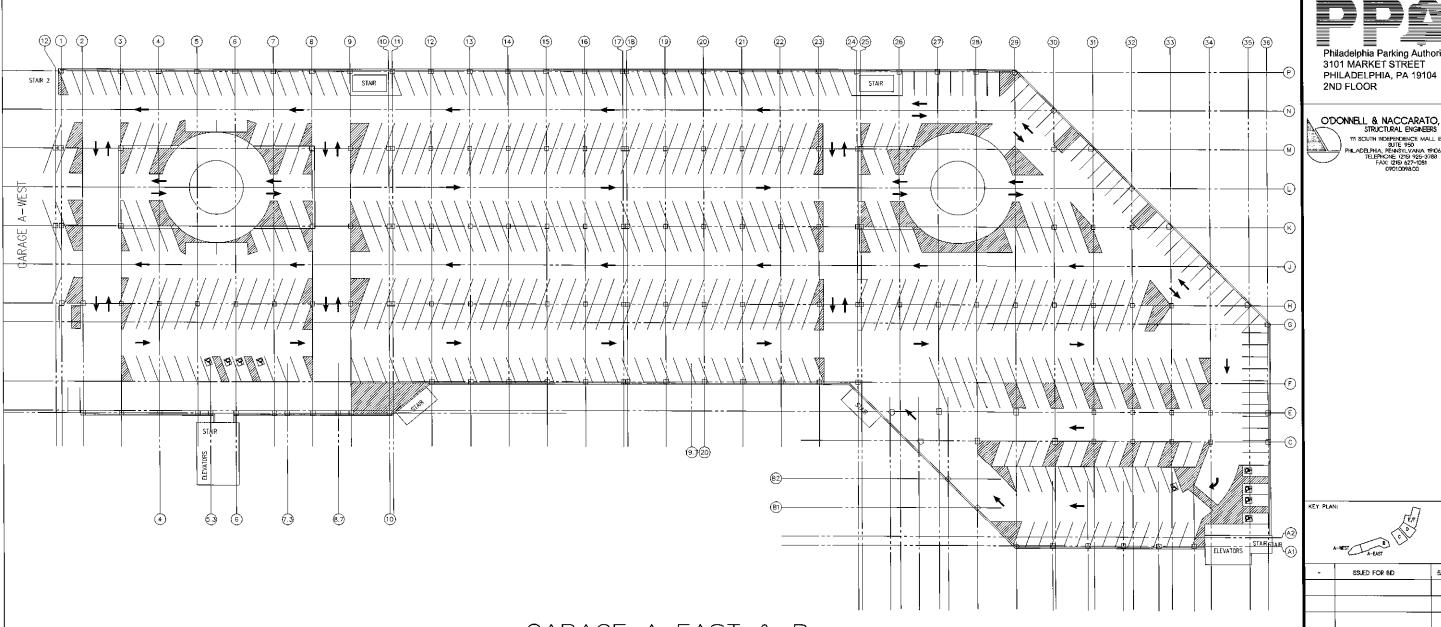
JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

DRAWING NO.

S2.3

SHEET NO. 15 of 40



<u> GARAGE A EAST & B</u> TIER 4 PLAN

SCALE: 1/32"=1'-0"

NOTICE: 17 JOHN STATE OF THE ST

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FDR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HURIZUNTAL SPALL REPAIR	300 SF
1.1	HORIZONTAL CRACK REPAIR	600 LF
1.2	COLUMN SPALL REPAIR	450 SF
1.4	VERTICAL CONCRETE SPALL REPAIR	200 SF
1.5≭	CLEAR PENETRATING SEALER	LUMP SUM
1.6≌	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1¥	CONTROL JOINT REPAIR	LUMP SUM
1.6.2≌	COVE SEALANT REPAIR	LUMP SUM
1.7	DVERHEAD CONCRETE SPALL REPAIR	150 SF
1.8	OVERHEAD CLIP REPAIR	50 EA
1.9	BEAM SPALL REPAIR	120 SF
1.10≠	NEW WATERPROOFING MEMBRANE @ HELIX A-EAST AND B, RAMP UP/DOWN	LUMP SUM
1.12	REPLACEMENT EXPANSION JOINT	1,200 LF

⊯CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET

ODONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
TI SCUTH INDEPENDENCE MALL EAST
JULY 550 NA 19706-2524
TELEPHONE (15/9 196-376)
FAX 350 357-057

KEY PLAN: ISSUED FOR BID 5/19/09

> CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A EAST & B TIER 4 PLAN

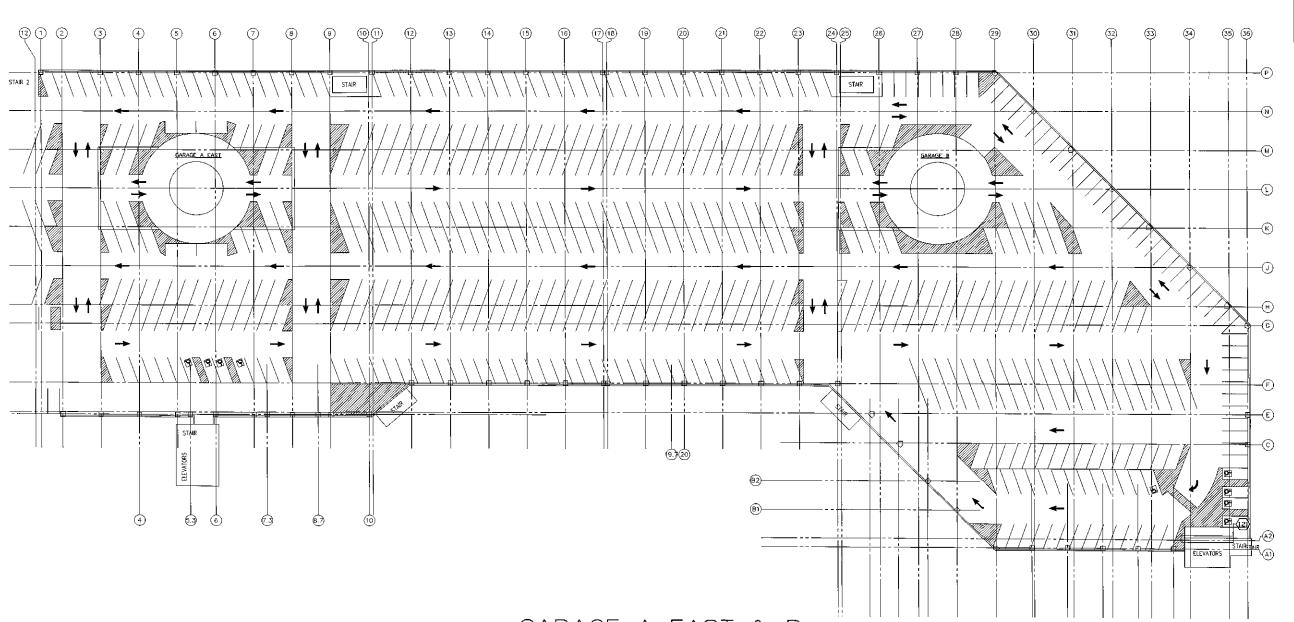
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BID No. N.PHL.CR.09.001

DRAWING NO.

S2.4

SHEET NO. 16 of 40



GARAGE A EAST & B TIER 5 PLAN

ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	900 SF
1.1	HORIZONTAL CRACK REPAIR	1375 LF
1.2	COLUMN SPALL REPAIR	700 SF
1.4	VERTICAL CONCRETE SPALL REPAIR	350 SF
1.5≍	CLEAR PENETRATING SEALER	LUMP SUM
1.6.1=	CONTROL JOINT REPAIR	LUMP SUM
1.6.2≖	COVE SEALANT REPAIR	LUMP SUM
1.10≖	NEW WATERPROOFING MEMBRANE € HELIX A-EAST	LUMP SUM

LEGEND

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

200 SF

1.12 REPLACEMENT EXPANSION JOINT

1.17 FULL DEPTH REPAIR

SCALE : 1/32"=1'-0"

SCALE: 1/02 — 1 — 0

MOTES.

D. REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DRLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SQUIND SUFFACES WITH HAMMER, ROD., CHAIN OR APPROPRIATE TOOL. TO BETECT DELAMINATIONS AND DEFECTS ALL SUPPORTED FILIDS SUFFACES ARE TO BE SQUINDED AND CELLINGS VISUALLY SURVEYED, RECARDLESS OF WHETHER THE DRAWINGS SHOW OR DO NOT SHOW A FILIDOR OR CELLING SHALL IN THE VICINITY. THE LUMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DWER.

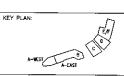
2) - INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL ENGINERS
11 SOUTH NODEPIDENCE MALL EAST
WITH 950
PHLADEPHA, PENNSYLVANA 19706-2524
TELEPICAN: CESI 925-3786
FOX 1258 927-651
O'VOLOGO-6.00



- ISSUED FOR BID 5/19/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE A EAST & B TIER 5 PLAN

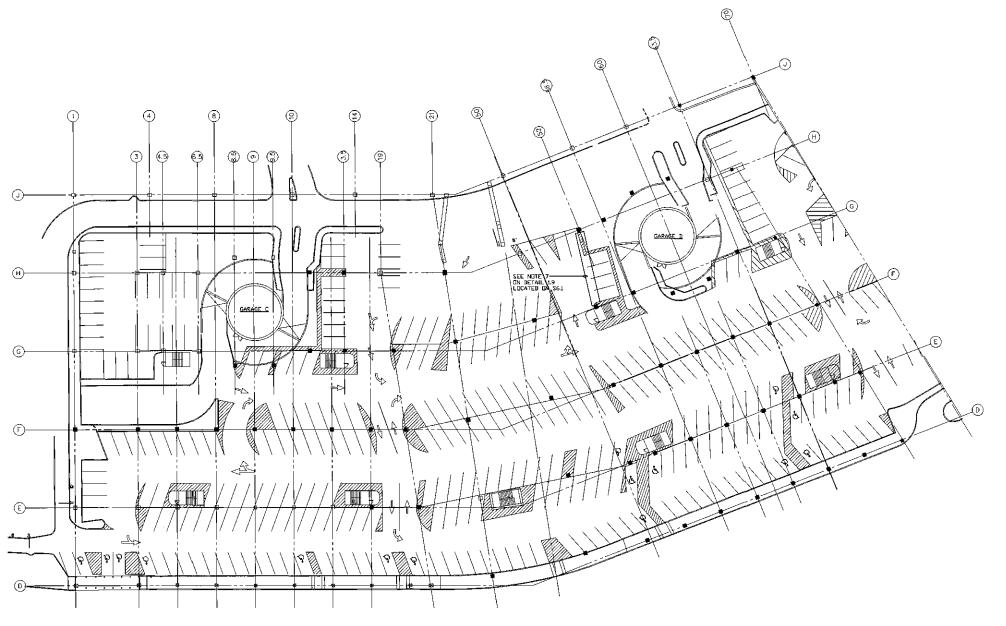
JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

DRAWING NO.

S2.5

SHEET NO. 17 of 40



GARAGE C GROUND LEVEL PLAN

CALE : 1/32"=1'-0

NOTES:

DEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE UNLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CONTRACTOR IS TO SOUND SURFACES WITH HAWMER, NOD., CHAIN OR APPROPRIATE TOOL. TO DETECT DELAMINATIONS AND DEFECTS ALL SUPPORTED FLOOD SURFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW DOWNED AND CELLINGS SHOWN OF THE DELAMINATION ARE TO BE MARKED FOR DEPOULITION BY CONTRACTOR. PRIDE TO REMOVAL, LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEPOULITION BY CONTRACTOR. PRIDE TO REMOVAL, LIMITS OF REPAIR AREA SMALL BE VERIFIED BY ENGINEER AND OWNER.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.2	COLUMN SPALL REPAIR	500 SF
1.4	VERTICAL CONCRETE SPALL REPAIR	100 SF
1.7	OVERHEAD CONCRÈTE SPALL REPAIR	500 SF
1.8	OVERHEAD CLIP REPAIR	30 EACH
1.9	BEAM SPALL REPAIR	600 SF
1.19	STEEL ANGLE RESTORATION	400 SF



3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

OTDONNELL & NACCARATO, INC.
STRUCTURAL ENGNEERS
IN SOUTH INDEPENDENCE MALL EAST
STE 950
PHLADELPHA PENSYLVANIA 19708-2524
TELEPHONE CP39 925-378
FAX (215) 527-1051
(1991.0098.00

PLAN:

-	ISSUED FOR BID	5/19/0
REVISION	DESCRIPTION	DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE C GROUND LEVEL PLAN

JOB. NO:	0901.0098	CHECK	ED:	RW
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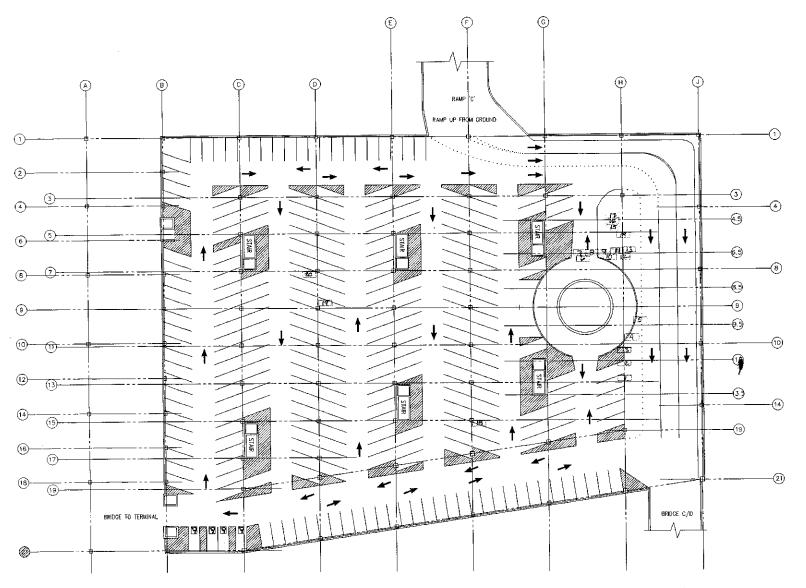
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DRAWING NO.

S3.0

SHEET NO. 18 of 40





TEM ND.	DESCRIPTION	QUANTITIES
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diamen	CLEAR-PERCHRAFING SCACER	
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-	- CENTRE - CONTROL - CONTR	
46.20		
4.7	SA ESHEAD CONSTRUCTOR SPACE REPAIR	960-95-
ali:Onemer	www.BAEAIreceiptory.Schiller	EAGH
1.9	BEAM SPALL REAPAIR	100 SF
Wife-		
4:11-	THE RESERVE TO SERVE THE PROPERTY OF THE PROPE	100-25
400		108-4-
417	POST TOCKE TOTAL	
1:17		ne committees
440-		EG-EASH
449		500 CF

SCALE: 1/32"=1"-0"

NOTE:

SCALE: 1/32"=1"-0"

NOTE:

PERMIT LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.

CHINTACTICS TO SOUND SURFACES WITH HAMMER, ROD. CHAIN OR APPROPRIATE TOOL TO DETECT BELANIMATIONS AND DEFECTS. ALL SUPPORTED FLOW SURFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGROULSS OF WHETHER THE DRAWINGS SHOW UP DO NOT SHOW A FLOOR OR CELLING SPALL IN THE VIDINITY, THE LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND OWNER.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.8' FOR REPAIR DETAILS.



3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL 8. NACCARATO, NC.
STRUCTURAL BIOLOGERS
111 SOUTH NODPEDIOENCE MALL EAST
SUITE 950
PHALADELPHA, PRINSILY ANAL 19706-2524
TELEPHONE 1219 12-3-3788
FAX: (20) 627-3051

-	ISSUED FOR BID	5/19.
A	BERM SPALL QUANTITY REVIEW	8-12
В	AS-BUILT	12/31
REVISION	DESCRIPTION	DAT

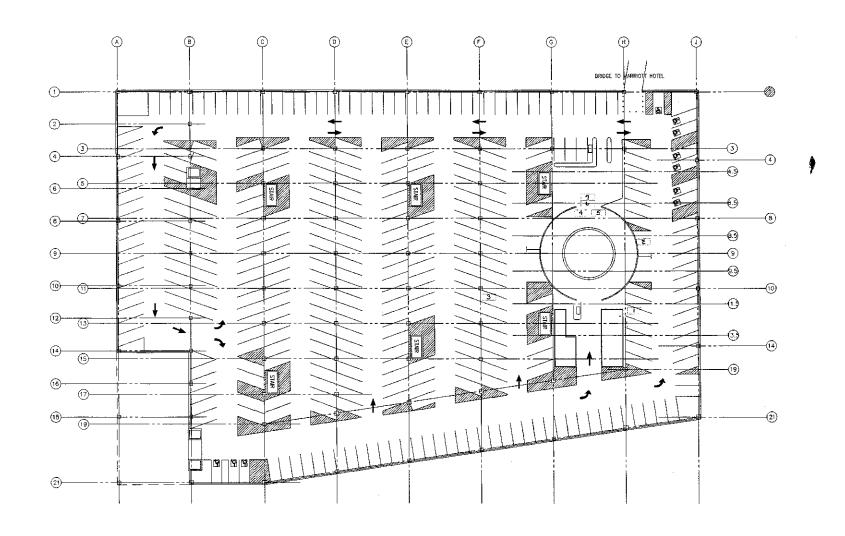
CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE C TIER 1 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

DRAWING NO. C1.2



	GARA	\GE	<u> </u>
31	TIER	2	PLAN

SCALE: 1/32"=1'-0"

NOTIES:
Directions & Dimensions are for general reference only, extent and location of repairs may vary from what is shown on the drawings depending upon field conditions. Contractor is to sound suffaces with hander, Rod., Chain or appropriate you. To be test delandations and defenses, all suppreted prodes superaces are to be sounded and cellings visually surveyer, regardly the formatting the drawings show or do not show a floor or celling stay. In the victority, the Lint's of the staination are to be maked for departing by contractor prior to repair area shall be verified by engineer and divine.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAVING 'S60, S61 & S62' FOR REPAIR DETAILS.



ODONNELL & NACCARATO, NC.
STRICTURAL EXCHERS
THI SOUTH HESPOSSE MALL EAST
SUTE 90
PHLADE,PHA. PRONYLVANA 19100-2524
TELEPHONE: 0259 925-37581
FAX. 0259 927-1051

PLAN:

- SSLED FOR 8D 5/19/09

ADDRIVAN 41

A QUANTITY REVIEW 8-28-09

B AS-BUILT 12/31/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE C TIER 2 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL,CR.09.001

DRAWING NO. C2.1

HEET-NO. 20 -- 64-40

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-1-9	THE RESIDENCE OF THE PROPERTY	1
1.9	BEAM SPALL REAPAIR 70 SF] ∧ [3+]
difference		
diff.	CHAMBELOW RESIDENCE AND ALL	7
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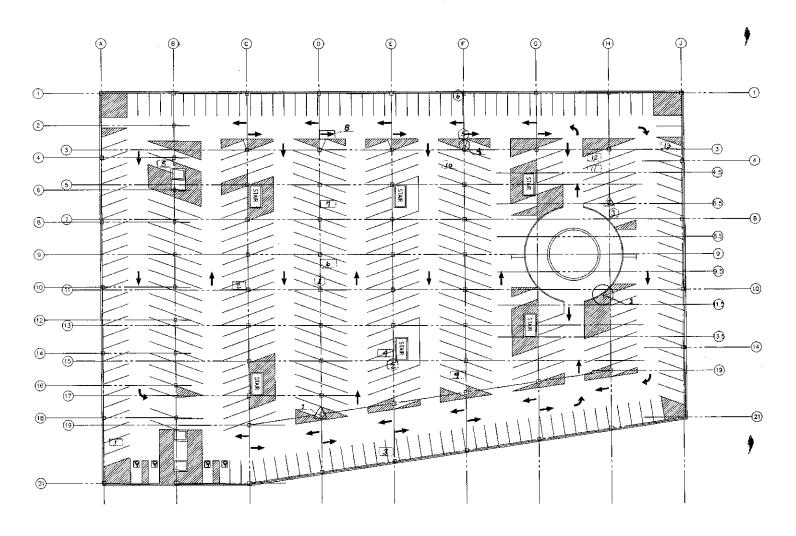
*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

LEGEND

DESCRIPTION

ITEM NO.

I<mark>♣)</mark>t⟩



GARAGE C TIER 3 PLAN

CUVIE	: 1/32"=
JUNIE	. 1/32

2) __ INDICATES REPAIR TYPE.

3) SEE DRAWING 'S60, S61 & S62' FOR REPAIR DETAILS.

Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR



REVISION	DESCRIPTION	DAT
-	A3-BUIL1	12/31
R	AS-BUILT	12/31
Δ	ADDENDUM #1	
-	ISSUED FOR BID	5/19.

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE C TIER 3 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001 DRAWING NO. C3.2

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AF EACH LEVEL.

LEGEND

DESCRIPTION

DVERHEAD CONCRETE SPALL REPAIR

50 SF

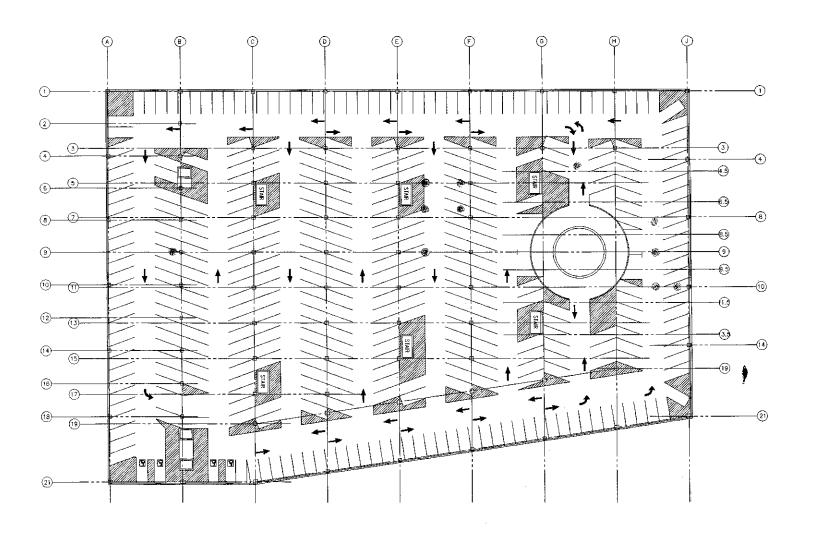
100 SF

70 SF

COLUMN SPALL REPAIR VERTICAL CONCRETE SPALL REPAI

BEAN SPALL REAPAIR

1.2



GARAGE C TIER 4 PLAN

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
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444	POST-RESKS TARGET ALCOHOL	20-5404
1.18	CENDUIT REPAIR	20 EACH

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL

SCALE : 1/32"=1'-0"

2) (-) INDICATES REPAIR TYPE.
3) SEE DRAVING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRICTURAL BYCNEERS
18 SOUTH POEPENORICE MALL EAST
STRICTURAL BYCNEERS
18 SOUTH POEPENORICE MALL EAST
PHLADELPHA. PENISYLVANA 1706-2524
TELEPHORIC 2019 975-0786
TELEPHORIC 2019 975-0786
O'NOLON9800

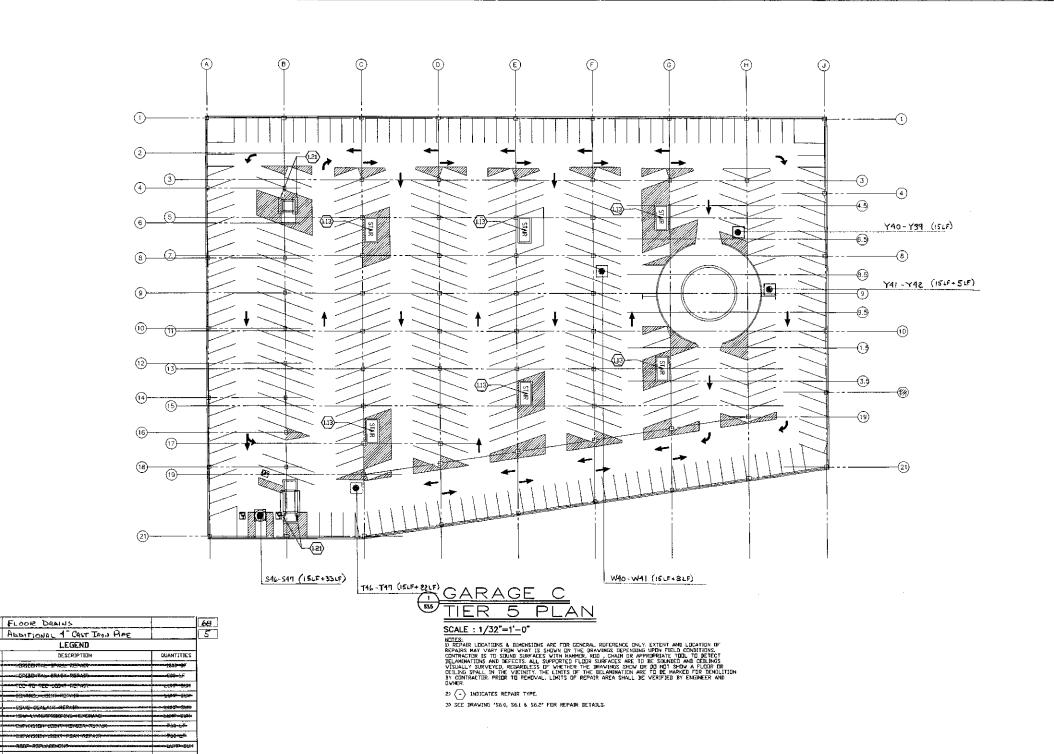
ISSUED FOR BID AS-BUILT DATE DESCRIPTION

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE C TIER 4 PLAN

JOB. NO: 0901,0098 CHECKED: DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001 DRAWING NO. C4.2



WCONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authorit 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGAGERS
171 SOUTH INCOMPLICATE MALL EAST
JULY 900
PHILADELINA, PRINNAU ANNA 19702-7524
TELEPHONE (270 975-3768
FAX (280 227-051)

(EY PLAN:

- ISSUED FOR BD 5/19//
B AS-BUILT 12/31/

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

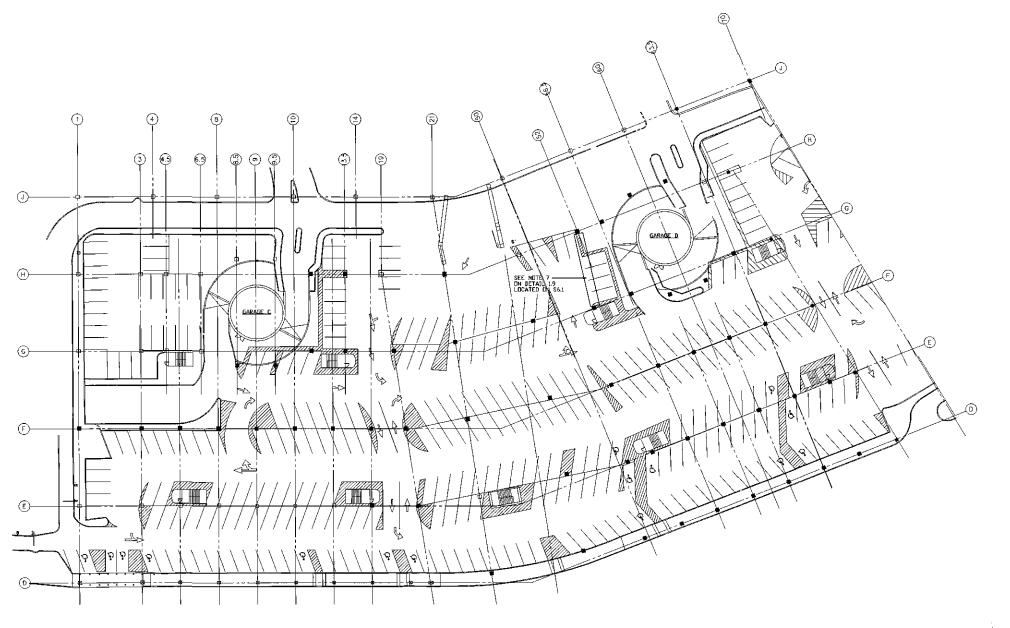
> GARAGE C TIER 5 PLAN

J08. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

C5.

!*)



GARAGE D GROUND LEVEL PLAN

SCALE : 1/32"=1'-0"

NOTIES TO SUBJECT TO REMEASURE ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SURFACES WITH HAWHER, RUD. CHAIN OR APPROPRIATE TOOL ID DETECT DELAYINATIONS AND DEFECTS ALL SUPPORTED FLOOD SURFACES AND TO NOTIFY SHOWN OF A FLOOR OWN CILLINGS WISHARDS AND THE PROPRIED FLOOR SURFACES AND TO NOT SHOW A FLOOR OWN CILLING SHOWN OF THE PROPRIED FLOOR OWN OF THE PROPRIED FLOOR OWN OF THE PROPRIED FOR THE PROPRIED ARE TO SEE MARKED FOR DEPOLITION BY CONTRACTOR, PRIOR TO REMIVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DOWER.

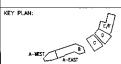
2) _ INDICATES REPAIR TYPE.
3) SEE DRAWING "S6.0, S6.1 & S6.2" FUR REPAIR DETAILS.

LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.2	COLUMN SPALL REPAIR	400 SF
1.4	VERTICAL CONCRETE SPALL REPAIR	75 SF
1.7	OVERHEAD CONCRETE SPALL REPAIR	700 SF
1.8	OVERHEAD CLIP REPAIR	20 EA
1.9	BEAM SPALL REPAIR	500 SF
1.19	STEEL ANGLE RESTORATION	600 LF



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRICTURAL ENGINERS
11 SOUTH NOBERDENCE MALL EAST
2011 SOUTH NOBERDENCE MALL EAST
2012 SOUTH NOBERDENCE MALL EAST
2014 SOUTH NOBERDENCE MALL EAST
PHILADELPHIA, PENISYLVANIA 19106-2524
HELEPHONE (2019 928-3786
FAX: USS 827-7051
OPAULOPHON



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-	ISSUED FOR BID	5/19
REVISION	DESCRIPTION	DA.

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE D GROUND LEVEL PLAN

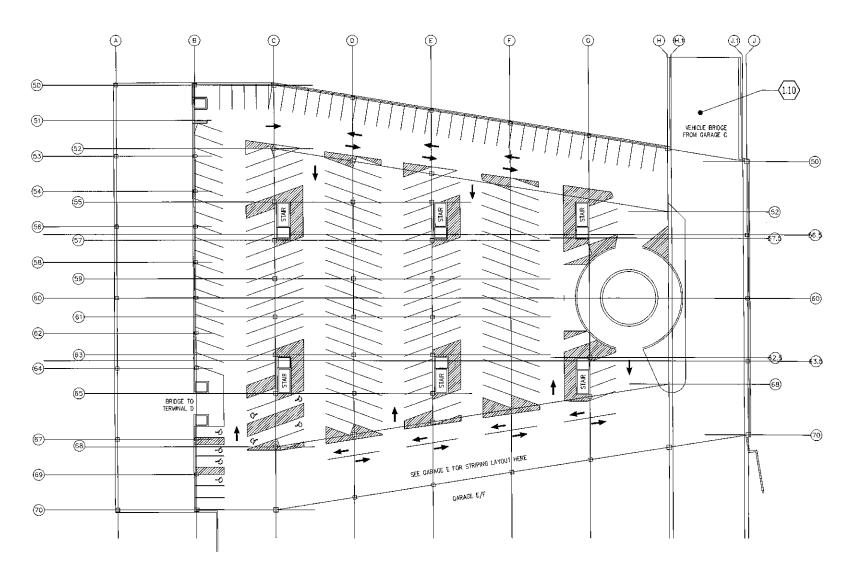
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DRAWING NO.

S4.0

SHEET NO. 24 of 40



GARAGE D TIER 1 PLAN

LEGEND	
DESCRIPTION	QUANTITIES
HORIZONTAL SPALL REPAIR	1000 SF
HDRIZONTAL CRACK REPAIR	500 LF
PDST PDCKET REPAIR	24 EA
VERTICAL CONCRETE SPALL REPAIR	100 SF
CLEAR PENETRATING SEALER	LUMP SUM
TEE TO TEE JOINT REPAIR	LUMP SUM
CONTROL JOINT REPAIR	LUMP SUM
COVE SEALANT REPAIR	LUMP SUM
DVERHEAD CONCRETE SPALL REPAIR	100 SF
BEAM SPALL REAPAIR	150 SF
NEW WATERPROOFING MEMBRANE BRIDGE C/D	LUMP SUM
EXPANSION JOINT HEADER REPAIR	300 LF
EXPANSION JOINT FOAM REPAIR	300 LF
FULL DEPTH REPAIR	250 SF
CONDUIT REPAIR	20 EACH
STEEL ANGLE RESTORATION	600 LF
	DESCRIPTION HORIZONTAL SPALL REPAIR HORIZONTAL SPALL REPAIR HORIZONTAL CRACK REPAIR PUST POCKET REPAIR VERTICAL CONCRETE SPALL REPAIR CLEAR PENETRATING SEALER TEE TO TEE JUINT REPAIR CONTROL JUINT REPAIR COVER SEALANT REPAIR DVERHEAD CONCRETE SPALL REPAIR BEAM SPALL REPAIR NEV WATERPROOFING MEMBRANE BRIDGE C/D EXPANSION JUINT HEADER REPAIR FULL DEPTH REPAIR CONDUIT REPAIR

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

SCALE : 1/32"=1'-0"

MOTES:
DePair Locations & Dimensions are for general reference only, extent and location of repairs may vary from vhat is shown in the drayings depending upon field conditions. Contractor is sound suffaces with hammer rod, chain or appropriate tool to defect containings and defects all supported flood supfaces are to be sounded and cellings visually surveyed, regardless of whether the drayings show of do mot show a floor in celling should be very the containing the property of the decading that are to be marked for defining the celling show the decading the property of the property of the property of the decading the property of t

2> (-) INDICATES REPAIR TYPE.

3) SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGNETRS
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SUE 950
PHLADELPHA, PENSYLVAMA 19706-2624
TELEPHONE (209 925-378)
TELEPHONE (209 925-378)
G0901098.00

KEY PLAN:

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE D TIER 1 PLAN

JOB. NO: 0901.0098 CHECKED: DRAWN: CAD DATE: 2009/05/09

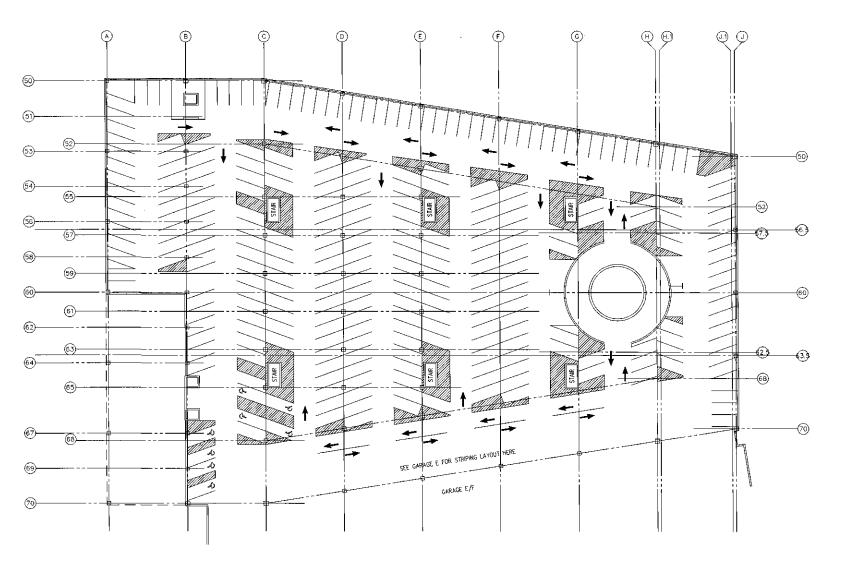
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DRAWING NO.

S4.1

SHEET NO. 25 of 40





GARAGE D SE TIER 2 PLAN

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

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SCALE : 1/32"=1'-0"

2) (-) INDICATES REPAIR TYPE.

	LEGEND	
ITEM NB.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	1200 SF
1.1	HBRIZONTAL CRACK REPAIR	500 LF
1.5≭	CLEAR PENETRATING SEALER	LUMP SUM
1.6×	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1=	CONTROL JOINT REPAIR	LUMP SUK
1.6.2=	COVE SEALANT REPAIR	MUZ 9MUJ
1.7	OVERHEAD CONCRETE SPALL REPAIR	100 SF
1.8	OVERHEAD CLIP REPAIR	10 EA
1.9	BEAM SPALL REAPAIR	100 SF
1.11	EXPANSION JOINT HEADER REPAIR	300 LF
1.12	EXPANSION JOINT FOAM REPAIR	300 LF
1.14	POST POCKET REPAIR	24 EA
1.18	CONDUIT REPAIR	20 EA
1.19	STEEL ANGLE RESTORATION	500 LF

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL ENGNEERS
III SOUTH NORPHODRICE MALL EAST
STRUCTURAL PERSYLVANIA 17/06-2624
TELEPHORE (199 725-378
FAX (26) 627-7051
O'01/0976-00

PLAN:

- ISSUED FOR BID 5/19

REVISION DESCRIPTION DA

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE D TIER 2 PLAN

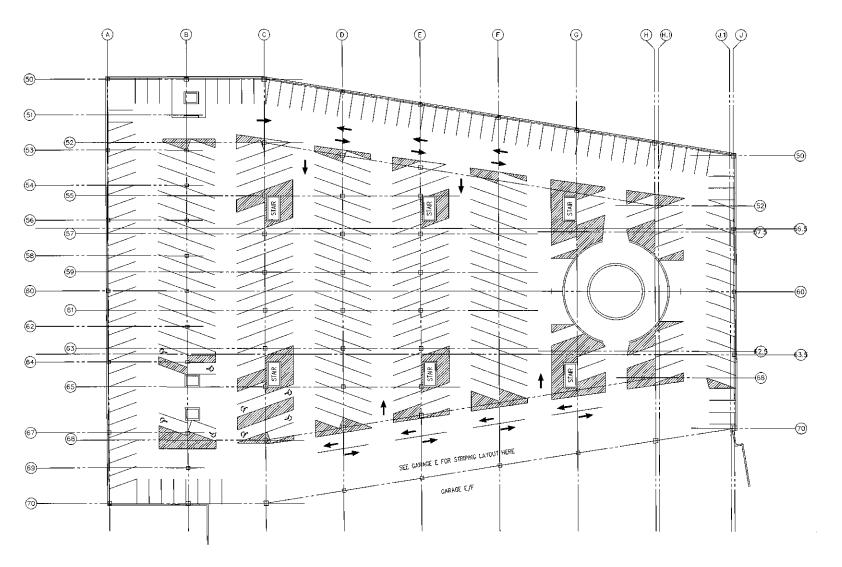
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BID No. N.PHL.CR.09.001

DRAWING NO.

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SHEET NO. 26 of 40



GARAGE D TIER 3 PLAN

SCALE : 1/32"=1'-0"

NOTES:
DEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE CINLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM VHAT IS SHOWN ON THE DRAYINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SURFACES WITH HAMMER, ROD. CHAIN OR APPROPRIATE TOOL TO DETECT CONTRACTOR IS TO SOUNDED AND CETCETS, ALL SUPPORTED FLOOR SURFACES NOR TO BE SOUNDED AND CELLINGS VISUALLY SURVEYOR REGARDLESS OF WHETHER THE DRAYINGS SHOW OR DO NOT SHOW A FLOOR OR CELLING SPALL IN THE VICTIMITY, OF HIGHTS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION OF CONTRACTOR. PRIOR TO REMOVAL, LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION OF THE DEMOLITION OF THE DEMOLITION OF THE PROPERTY OF THE

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	1500 SF
1.1	HORIZONTAL CRACK REPAIR	550 LF
1.2	COLUMN SPALL REPAIR	100 SF
1,4	VERTICAL CONCRETE SPALL REPAIR	80 SF
L5×	CLEAR PENETRATING SEALER	MUZ 9MUJ
1.6≭	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1≒	CONTROL JOINT REPAIR	LUMP SUN
1.6.2#	COVE SEALANT REPAIR	LUMP SUM
1.7	OVERHEAD CONCRETE SPALL REPAIR	80 ZF
1.8	DVERHEAD CLIP REPAIR	12 EACH
1.9	BEAM SPALL REAPAIR	50 SF
1.11	EXPANSION JOINT HEADER REPAIR	500 LF
142	EXPANSION JOINT FOAN REPAIR	500 LF
1.14	PDST PDCKET REPAIR	24 EA
1.18	CONDUIT REPAIR	20 EACH
119	STEEL ANGLE RESTORATION	500 LF

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL ENGNEERS
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SUETH SEE 950
PHILADELPHA, PENSYLVANIA 19706-2524
TELEPHORE CES 925-3788
FAX: (216) 627-3051
OS910078-00

KEY PLAN:

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE D TIER 3 PLAN

JOB. NO: 0901.0098 CHECKED: RW
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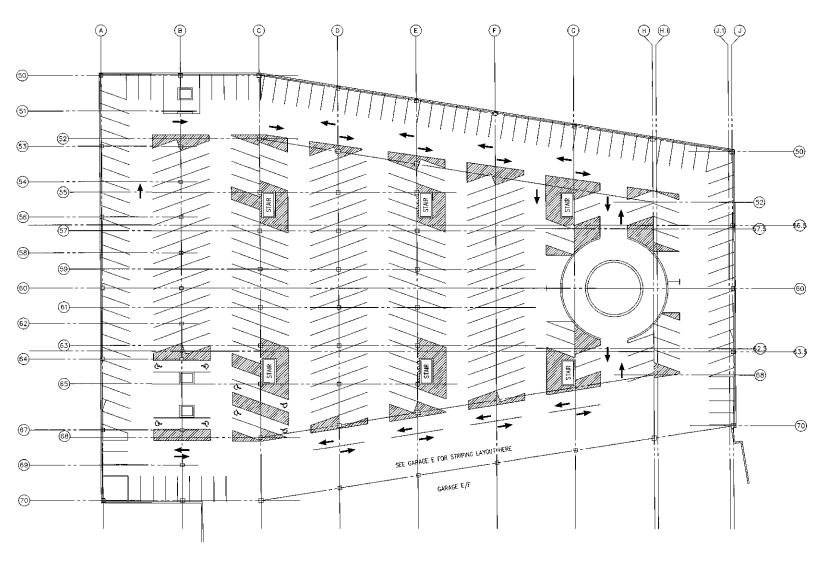
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S4.3

SHEET NO. 27 of 40





GARAGE D TIER 4 PLAN

	LEGEND	
ITEM ND.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	1300 SF
1.1	HORIZONTAL CRACK REPAIR	700 LF
1.2	COLUMN SPALL REPAIR	100 SF
1.4	VERTICAL CONCRETE SPALL REPAIR	100 SF
1.5≭	CLEAR PENETRATING SEALER	LUMP SUM
1.6≭	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1#	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM
1.7	OVERHEAD CONCRETE SPALL REPAIR	100 SF
1.8	GVERHEAD CLIP REPAIR	10 EACH
1.9	BEAM SPALL REAPAIR	150 SF
1.11	EXPANSION JOINT HEADER REPAIR	500 SF
1.12	EXPANSION JOINT FOAM REPAIR	500 LF
1.14	POST POCKET REPAIR	24 EACH
1.18	CONDUIT REPAIR	20 EACH
1.19	STEEL ANGLE RESTORATION	600 LF

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

NOTES:

DEEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY. EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD COMBITIONS.
CONTRACTOR IS TO SOUND SURFACES WITH HAMMER, ROD. CHAIN OR APPROPRIATE TOOL. TO DETECT DELAMINATIONS AND DETECTS, ALL SUPPORTED FLOOR SURFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW OR DO NOT MAY A FLOOR OF CELLINGS SHOWN OF THE SOLAMINATION ARE TO BE MARKED FOR DEHOLITION BY CONTRACTOR. PRICE TO REMOVAL, LIMITS OF THE DELAMINATION ARE TO BE MARKED FOR DEHOLITION DETECTION OF THE DELAMINATION ARE TO BE MARKED FOR DEHOLITION DETECTION.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.



3101 MARKET STREET
PHILADELPHIA, PA 19104
2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL BYGNEERS
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SUTE 950
PHILADELPHIA PENSYLVANA 19106-2524
TELEPHONE (219 925-3788
FAX: (215) 627-1051
O9010098.00

KEY PLAN

PLAN:

B

C

D

A-WEST

A-EAST

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CONCRETE RESTORATION
REPAIR PROGRAM
AT PHL GARAGES

GARAGE D TIER 4 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

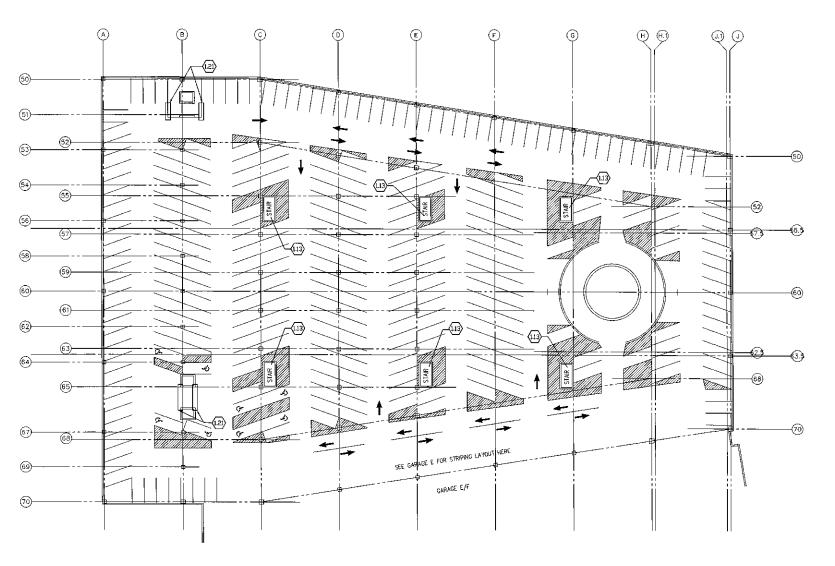
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DRAWING NO.

S4.4

SHEET NO. 28 of 40





GARAGE D TIER 5 PLAN

3) SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.

NOTES:

SCALE : 1/32"=1'-0"

2) (-) INDICATES REPAIR TYPE.

	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.0	HORIZONTAL SPALL REPAIR	600 SF
1.14	POST POCKET REPAIR	24 EACH
1.1	HORIZONTAL CRACK REPAIR	700 LF
1.2	COLUMN SPALL REPAIR	100 SF
1.6≯	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.l×	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM
1.10≠	NEV VATERPROOFING MEMBRANE	LUMP SUM
1.11	EXPANSION JOINT HEADER REPAIR	760 LF
1.12	EXPANSION JOINT FOAM REPAIR	760 LF
1.13×	ROOF REPLACEMENT	LUMP SUM
1.18	CONDUIT REPAIR	20 EACH

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL BIGNEERS
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ME 900
PHILADELPHIA, PENENYLIVANIA 19706-2524
TELEPHIOR (219 925-3788
FAX 1299 627-4251

KEY PLANE

- ISSUED FOR BID 6/19/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE D TIER 5 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

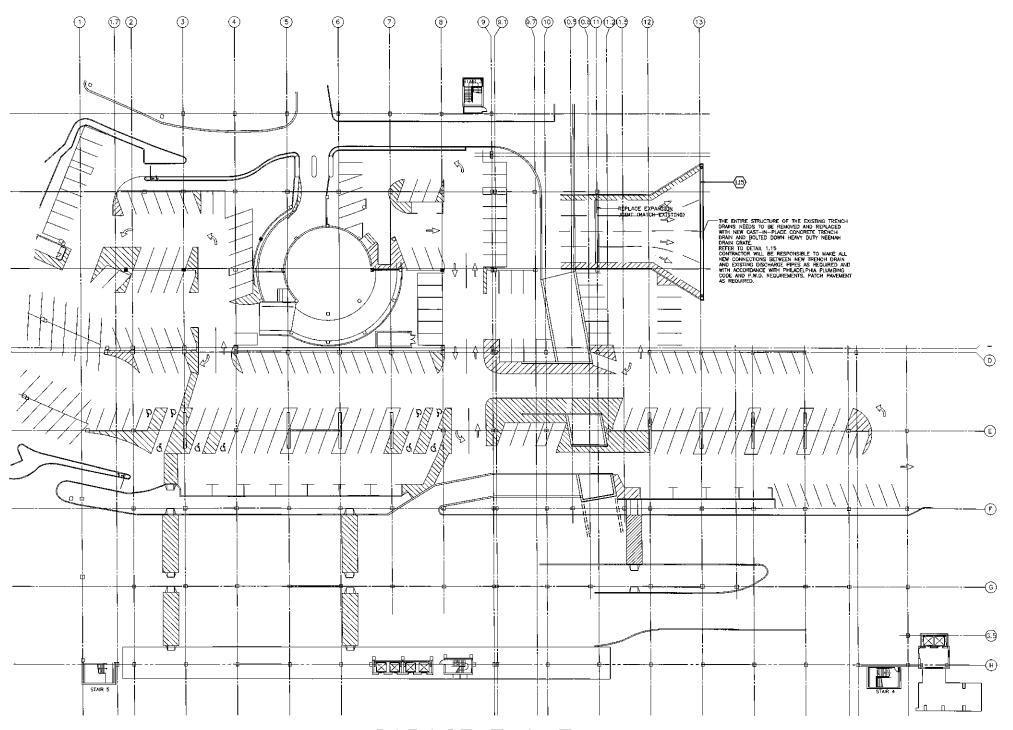
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DRAWING NO.

S4.5

SHEET NO. 29 of 40





GARAGE E & F GROUND LEVEL PLAN

LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HORIZONTAL CRACK REPAIR	300 LF
1.5	CLEAR PENETRATING SEALER AT HELIX E/F, RANP UP/DOWN	FUMP SUM
1.11	REPLACE EXPANSION JOINT	150 LF
1.15	REPLACE EXISTING TRENCH DRAIN	LUMP SUM

SCALE : 1/32"=1'-0"

NOTES:

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL BYSNEERS
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TELEPHONE (259 925-3788
FAX (219 627-1051
09010098.00

KEY PLAN:

- ISSUED FOR BID 5/19/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION
REPAIR PROGRAM
AT PHL GARAGES

GARAGE E & F GROUND LEVEL PLAN

JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

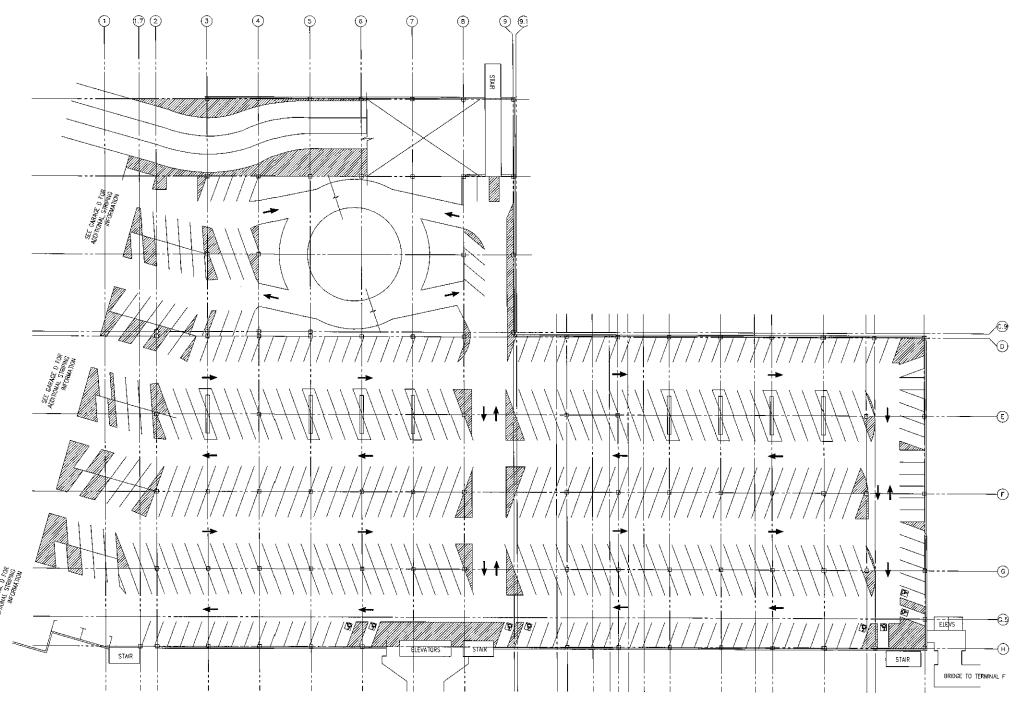
BID No. N.PHL, CR. 09.001

DRAWING NO.

S5.0

SHEET NO. 30 of 40





	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HURIZUNTAL CRACK REPAIR	300 LF
1.3	VERTICAL CONCRETE CRACK REPAIR	1000 LF
1.5=	CLEAR PENETRATING SEALER ENTIRE FLOOR INCLUDING HELIX E/F, RAMP UP/DOWN	LUMP SUM
1.6*	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1×	CUNTROL JUINT REPAIR	LUMP SUM
1.6.2×	COVE SEALANT REPAIR	LUMP SUM
1.14	POST POCKET REPAIR	20 EA

**CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

GARAGE E & F TIER 1 PLAN

SCALE : 1/32"=1'-0"

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2) - INDICATES REPAIR TYPE.

3) SEE DRAWING "S6.0, S6.1 & S6.2" FUR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL ENGNERS
IN SOUTH NDEPENDENCE MALL EAST
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ME SOUTH NDEPENDENCE MALL EAST
PHLADELPHA PENNYLLVANA 19700-2524
FERNYLLS (25) 627-0516
C9010996.00

- ISSUED FOR BID 5/19/09

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE E & F TIER 1 PLAN

JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

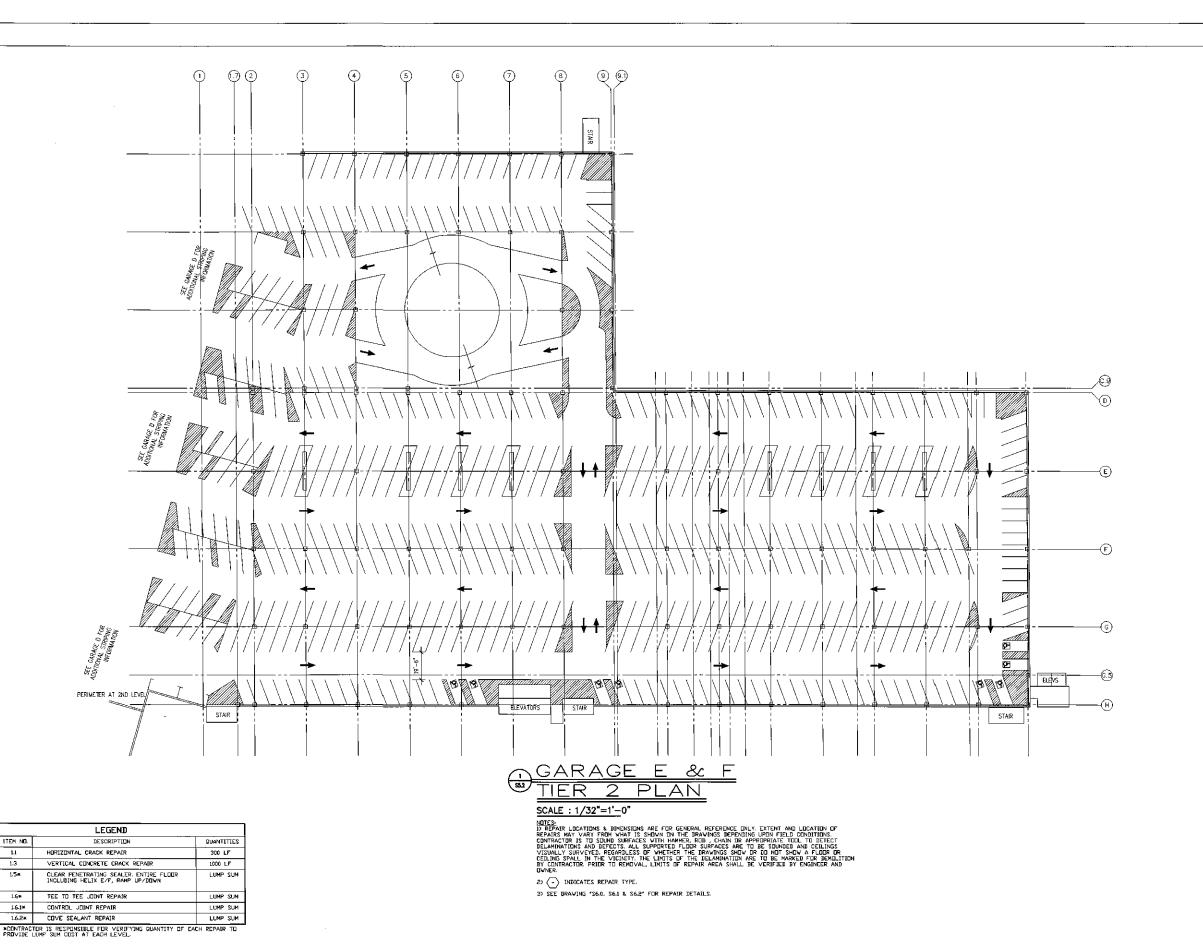
BID No. N.PHL.CR.09.001

DRAWING NO.

S5.1

SHEET NO. 31 of 40







Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, INC.
STRUCTURAL ENGINEERS
ITI SOUTH INDEPRIDENCE MALL EAST
WILL 950
PHLADELPHA, PENNSYLVANIA PYDO-2524
TELEPHONE (218) 926-9368
FAX 12516 527-9561
079100798.00

KEY PLANE

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A-PLIST

- ISSUED FOR BID 5/19/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

GARAGE E & F TIER 2 PLAN

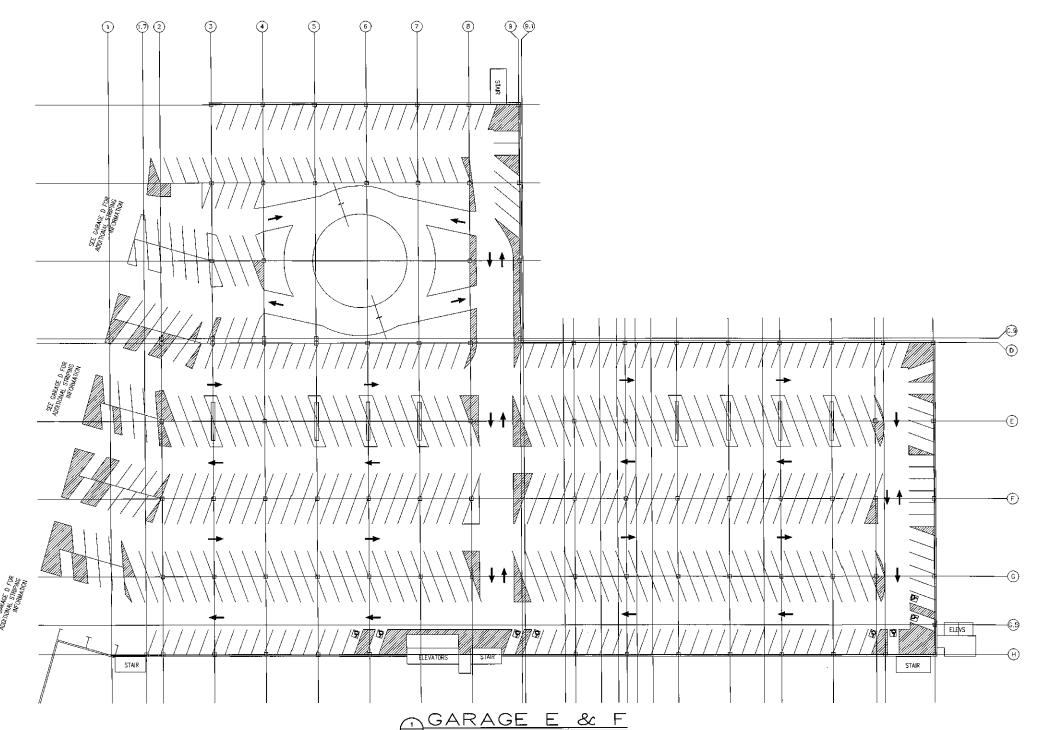
JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

BID No. N.PHL.CR.09.001

DRAWING NO.

S5.2

SHEET NO. 32 of 40



LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HORIZONTAL CRACK REPAIR	300 LF
1.3	VERTICAL CONCRETE CRACK REPAIR	1000 LF
1.5*	CLEAR PENETRATING SEALER. ENTIRE FLDUR INCLUDING HELIX E/F, RAMP UP/DOWN	LUMP SUM
1.6≭	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1*	CONTROL JOINT REPAIR	LUMP SUM
160-	ADV AC	

ACONTRACTUR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.



SCALE : 1/32"=1'-0"

MOTIES:
D. REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY EXTENT AND LOCATION OF REPAIRS MAY VARY FROM VHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CONTRACTOR IS TO SOUND SUFFACES WITH HAMMER ROD, CHAIN OR AFFOREXATION TOOL TO DETECT DELAMINATIONS AND DEFECTS ALL SUPPORTED FLOOR SUMFACES ARE TO BE SOUNDED AND CELLINGS VISUALLY SUPPLYED, REGARDLESS OF VMETTER THE DRAWINGS SHOW OR DO NOT SHAW A FLOOR OF CELLING SPALL IN THE VICINITY, THE LINTS OF THE DELAMINATION ARE TO BE MARKED FOR DEMOLITION BY CONTRACTOR, PRIOR TO REMOVAL, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DIMBER.

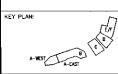
2) - INDICATES REPAIR TYPE.

3) SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL ENGINERS
III SOUTH NOPENDENCE MALL EAST
SUTE 950
PHLADELPHA PENSYLVANA 19106-2524
TELEPHONE 1219 027-3758
FAX: (215) 427-1051
09010098.00



	-	ISSUED FOR BID	5/19/
ļ			
	REVISION	DESCRIPTION	DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE E & F TIER 3 PLAN

JOB. NO: 0901.0098 CHECKED: DRAWN: CAD DATE: 2009/05/09

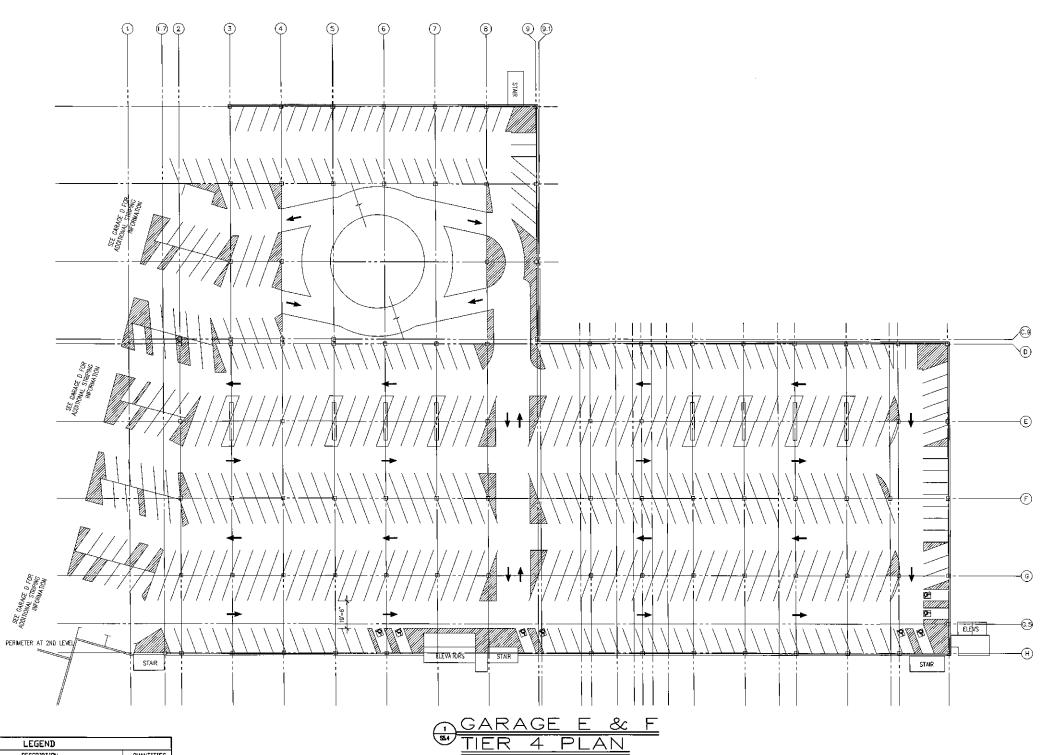
BID No. N.PHL.CR.09.001

DRAWING NO.

S5.3

SHEET NO. 33 of 40





LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HORIZONTAL CRACK REPAIR	300 LF
1.3	VERTICAL CONCRETE CRACK REPAIR	1000 LF
1.5×	CLEAR PENETRATING SEALER ENTIRE FLOOR INCLUDING HELIX E/F, RAMP UP/DOWN	LUMP SUM
1.6≭	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1×	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM

MCONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

SCALE : 1/32"=1"-0"

DITES
DEFAIL 1/32 DIMENSIONS ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF
PREPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY, EXTENT AND LOCATION OF
REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CONTRACTOR IS TO SOUND SUPFACES WITH HAMMER, ROD., CHAIR OR APPROPRIATE TOOL TO DETECT
DELANINATIONS AND DEFECTS, ALL SUPPRIED FLOOR SUPFACES ARE TO BE SOUNDED AND CELLINGS
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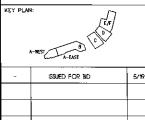
2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING "S6.0, S6.1 & S6.2" FOR REPAIR DETAILS.



3101 MARKET STREET
PHILADELPHIA, PA 19104
2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL BIGNEERS
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JUST 950
PHLADELPHIA, PENNSYLVANA 19106-2524
EEEP-VOR. (219 925-3788
FAX. (219 627-1051
OPG10098L00



CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

DESCRIPTION

GARAGE E & F TIER 4 PLAN

JOB. NO: 0901.0098 CHECKED: RW
DRAWN: CAD DATE: 2009/05/09

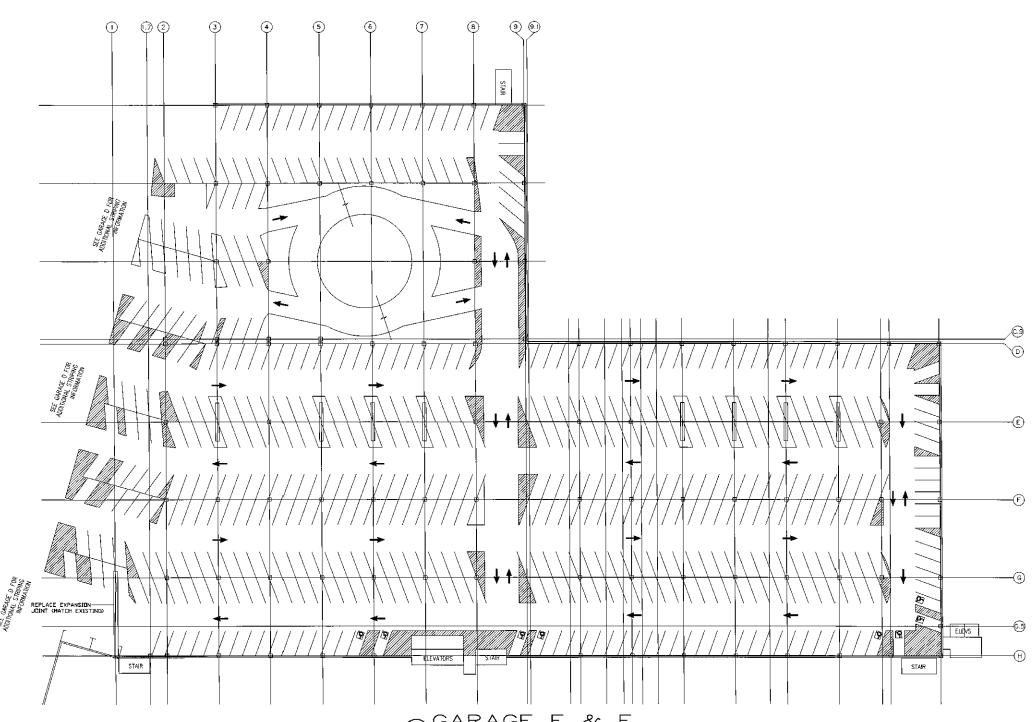
BID No. N.PHL.CR.09.001

DRAWING NO.

S5.4

SHEET NO. 34 of 40





	LEGEND	
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HORIZONTAL CRACK REPAIR	300 LF
1.3	VERTICAL CONCRETE CRACK REPAIR	1000 LF
1.5×	CLEAR PENETRATING SEALER ENTIRE FLOOR INCLUDING HELIX E/F, RAMP UP/DOWN	LUMP SUM
1.6*	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1*	CONTROL JOINT REPAIR	LUMP SUM
1.6.2*	COVE SEALANT REPAIR	LUMP SUM
1.12	REPLACEMENT EXPANSION JOINT	80 LF

MEDITRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

GARAGE E & F TIER 5 PLAN

SCALE : 1/32"=1'-0"

NOTES:

D. REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE DNLY, EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS TO SOUND SURFACES WITH HAWHER, RDD., CHAIN OR APPROPRIATE TOLD. TO DETECT DELIAMINATIONS AND DEFECTS, ALL SUPPORTED FILOR SURFACES NOR DE TO BE SOUNDED AND CELLINGS VISUALLY SURVEYED, REGARDLESS OF WHETHER THE DRAWINGS SHOW OR DO NOT SHOW A FLOOR OR CELLING SHOW OF THE DRAWING SHOW OR DO NOT SHOWN A FLOOR OR CELLING SHOWN A FLOOR OR DETECTION OF CONTRACTOR. PRIDE TO REMOVE, LIMITS OF THE DELIAMINATION ARE TO BE MAKED FOR DEMOLITION BY CONTRACTOR. PRIDE TO REMOVE, LIMITS OF REPAIR AREA SHALL BE VERIFIED BY ENGINEER AND DIWER.

2) (-) INDICATES REPAIR TYPE.

3) SEE DRAWING 'S6.0, S6.1 & S6.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

ODONNELL & NACCARATO, NC.
STRUCTURAL ENGINEERS
111 SOUTH NDEPENDENCE MALL EAST
SITE 950
PHILADELPHIA, PENSYLVANIA 19706-2524
TELEPHONE (129 925-3786
FAX (215) 627-7051
DYGLOGF&BOD

KEY PLAN:

- ISSUED FOR BID 5/19/09

REVISION DESCRIPTION DATE

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE E & F TIER 5 PLAN

JOB. NO: 0901.0098 CHECKED: RW DRAWN: CAD DATE: 2009/05/09

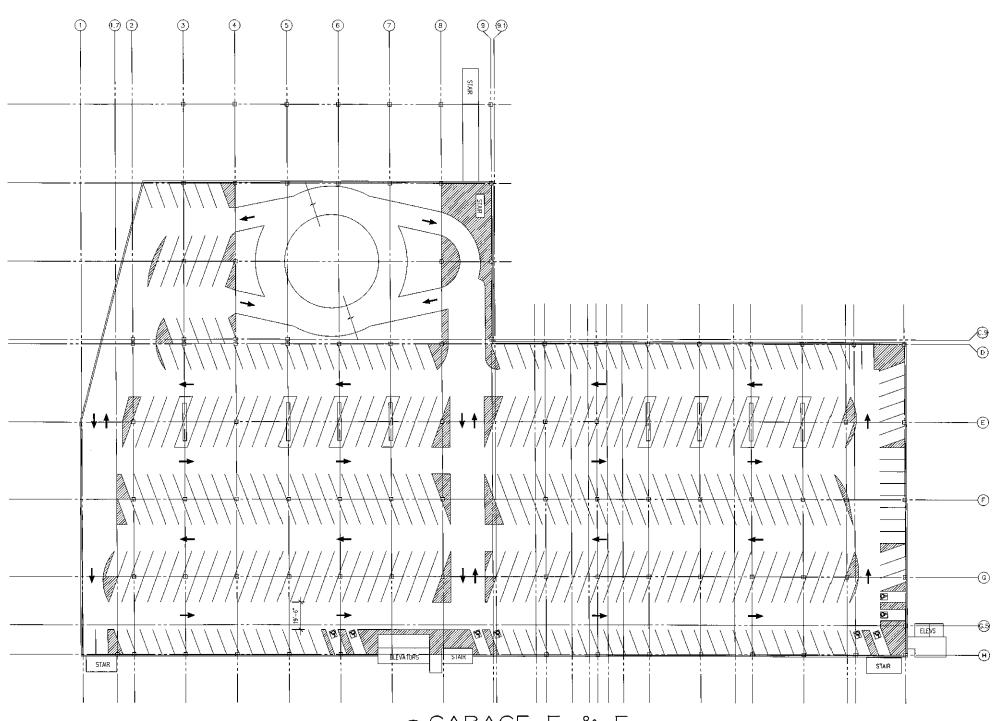
BID No. N.PHL.CR.09.001

DRAWING NO.

S5.5

SHEET NO. 35 of 40





LEGEND		
ITEM NO.	DESCRIPTION	QUANTITIES
1.1	HDRIZONTAL CRACK REPAIR	300 LF
1.3	VERTICAL CONCRETE CRACK REPAIR	1000 LF
1.5*	CLEAR PENETRATING SEALER ENTIRE FLOOR INCLUDING HELIX E/F, RAMP UP/JOWN	LUMP SUM
1.6#	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1≒	CONTROL JOINT REPAIR	LUMP SUM

1.6.2# COVE SEALANT REPAIR WOUNTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL. GARAGE E & F TIER 6 PLAN

SCALE: 1/32"=1'-0"

NOTES:

NOTES:
DEPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE ONLY. EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS.
CONTRACTOR IS TO SOUND SURFACES WITH HAMMER, ROD., CHAIN OR APPROPRIATE TOOL, TO DETECT DELANDATIONS AND DEPECTS, ALL SUPPORTED FLOOD SURFACES AND TO BE TO BE SOUNDED AND CELLINGS SHOW OR DO NOT SHOW A FLOOR OF CELLINGS SHOW OR DO NOT SHOW A FLOOR OF CELLINGS SHOW OR DO NOT SHOW A FLOOR OF CELLING SHOW OF THE PROPERTY OF THE PROPERTY ARE A SHALL BY VERIFIED BY EMPLOYED FOR THE PROPERTY OF THE PROPERTY ARE A SHALL BE VERIFIED BY ENGINEER AND OWNER.

2) - INDICATES REPAIR TYPE.

3> SEE DRAVING *S6.0, S6.1 % S6.2* FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

O'DONNELL & NACCARATO, NC.
STRUCTURAL BYGNERS
#II SOUTH NOBPRIDENCE MALL EAST
SUTE 950
PHLADELPHA, PENNSYLVANIA 19106-2524
TBLEPHONE 07:9 925-3788
FAX: 2154 627-1051
09010098.00

5/19/09 DESCRIPTION

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE E & F TIER 6 PLAN

JOB. NO: 0901.0098 CHECKED:

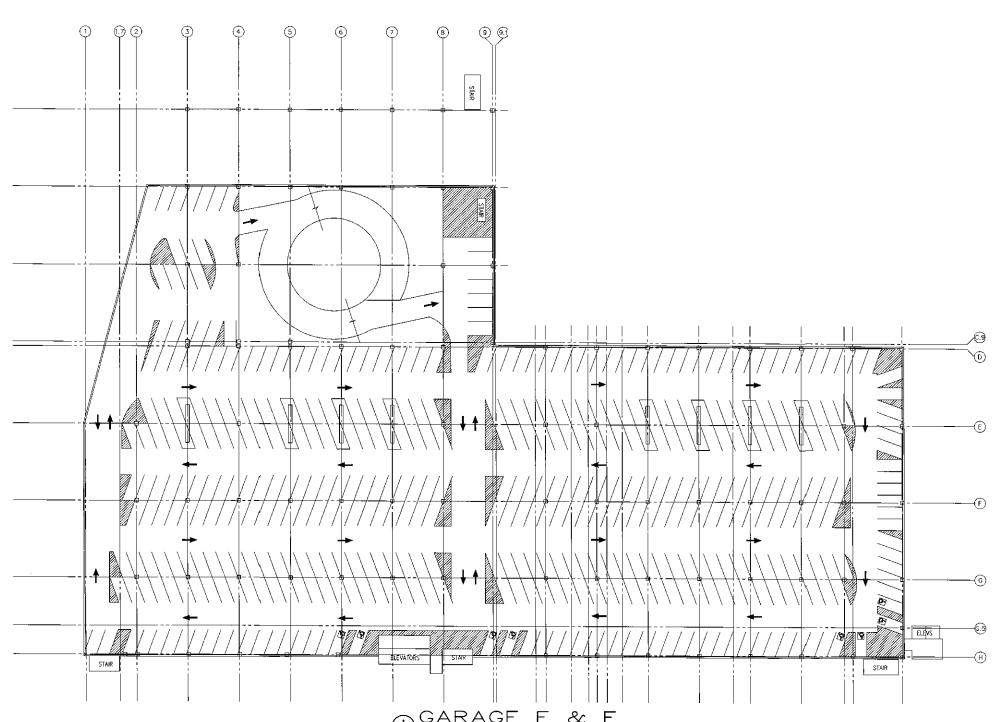
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BID No. N.PHL.CR.09.001

DRAWING NO.

S5.6

SHEET NO. 36 of 40



LEGEND		
ITEM ND.	DESCRIPTION	QUANTITIES
1.1	HDRIZONTAL CRACK REPAIR	300 LF
1.5₩	CLEAR PENETRATING SEALER ENTIRE FLOOR INCLUDING HELIX E/F, RAMP UP/DOWN	LUMP SUM
1.3	VERTICAL CUNCRETE CRACK REPAIR	1000 LF
1.6×	TEE TO TEE JOINT REPAIR	LUMP SUM
1.6.1≈	CONTROL JUINT REPAIR	LUMP SUM
1.6.2≍	COVE SEALANT REPAIR	LUMP SUM
1.14	PDST PDCKET REPAIR	20 EA

*CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY OF EACH REPAIR TO PROVIDE LUMP SUM COST AT EACH LEVEL.

GARAGE E & F TIER 7 PLAN

SCALE: 1/32"=1'-0"

NOTES:
1) REPAIR LOCATIONS & DIMENSIONS ARE FOR GENERAL REFERENCE UNLY. EXTENT AND LOCATION OF REPAIRS MAY VARY FROM WHAT IS SHOWN ON THE DRAWINGS DEPENDING UPON FIELD CONDITIONS. CONTRACTOR IS IT SOUND SURFACES WITH HAMMER, RID. JOHAN OF APPROPRIATE TIOL. TO DETECT DELAMINATIONS AND DEFECTS, ALL SUPPRIFED FILIDES SURFACES NOT BOUNDED AND COLLINGS VISUALLY SURVEYED, REGARDLESS OF VIETNET THE DRAWINGS SHOW OR DO NOT HAVE DE TO THE SOUND OF THE SURFACES FOR DE NOTICE OF THE SURFACES FOR DEPOLITION OF THE SURFACES FOR DEPOLITION OF THE SURFACE FOR THE SUR

2) - INDICATES REPAIR TYPE.

3) SEE DRAWING '26.0, S6.1 % S6.2' FOR REPAIR DETAILS.



Philadelphia Parking Authority 3101 MARKET STREET PHILADELPHIA, PA 19104 2ND FLOOR

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SUIT 950
PHILADELPHIA, PENSYLVANA 19706-2624
TELEPHONE (2619 925-9788
FAX: (215) 627-9051
GROUGPS&O

KEY PLAN:

ISSUED FOR BID 5/19/09 DESCRIPTION

CONCRETE RESTORATION REPAIR PROGRAM AT PHL GARAGES

> GARAGE E & F TIER 7 PLAN

JOB. NO: 0901,0098 CHECKED: DRAWN: CAD DATE: 2009/05/09

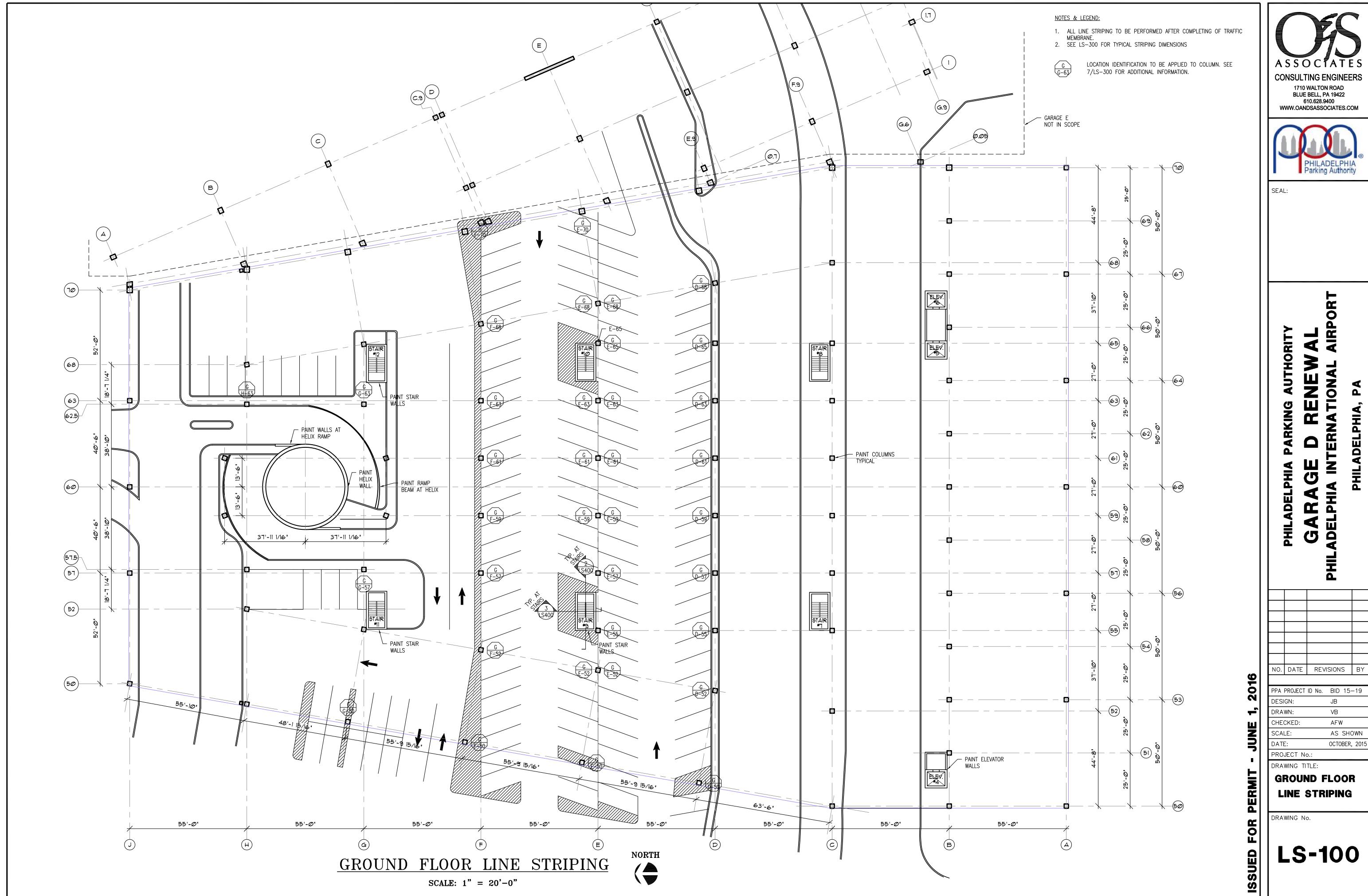
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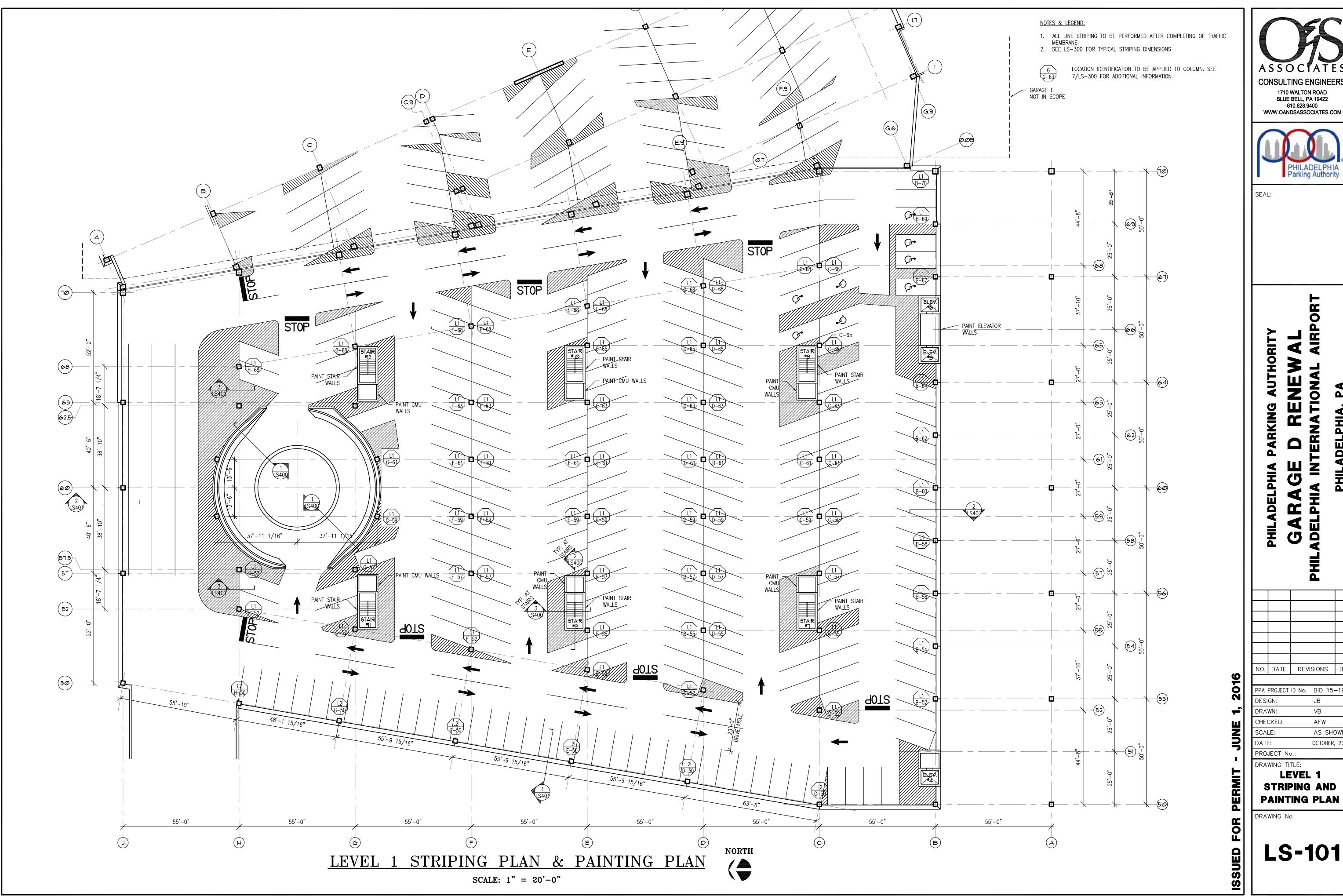
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S5.7

SHEET NO. 37 of 40







CONSULTING ENGINEERS 1710 WALTON ROAD BLUE BELL, PA 19422



610.628.9400

SEAL:

RENEWAL AUTHORITY DELPHIA RA

NO. DATE REVISIONS

PA PROJECT ID No.	BID 15-19
ESIGN:	JB
RAWN:	VB
CHECKED:	AFW
SCALE:	AS SHOW
ATE:	OCTOBER, 20

PROJECT No.: DRAWING TITLE:

LEVEL 1 STRIPING AND **PAINTING PLAN**

DRAWING No.



CONSULTING ENGINEERS 1710 WALTON ROAD BLUE BELL, PA 19422 610.628.9400

PHILADELPHIA Parking Authority

SEAL:

RENEWAL AUTHORITY DELPHIA RA

NO. DATE REVISIONS

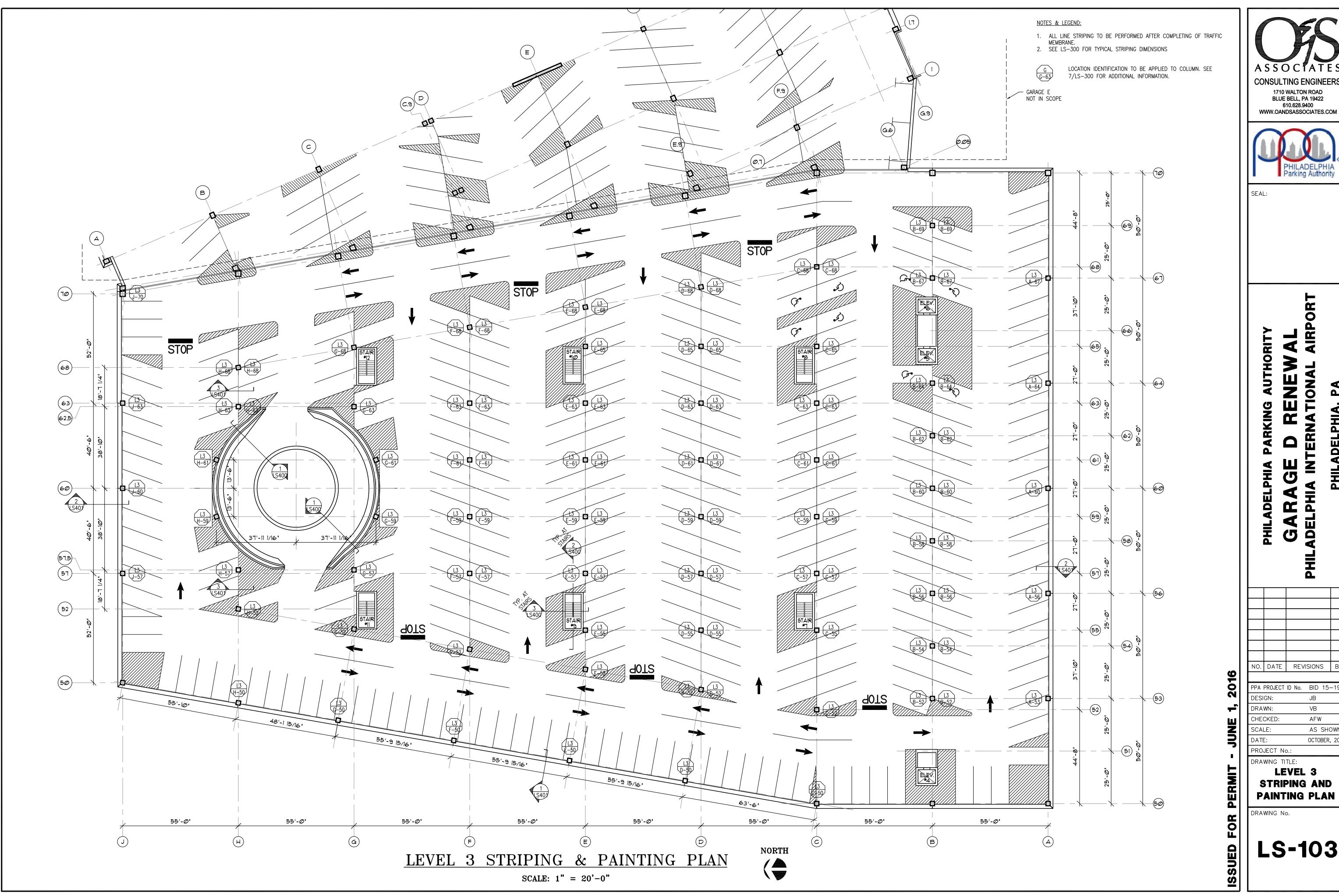
PPA PROJECT ID No.	BID 15-19
DESIGN:	JB
DRAWN:	VB
CHECKED:	AFW
SCALE:	AS SHOWN
DATE:	OCTOBER, 201

PROJECT No.:

DRAWING TITLE:

LEVEL 2 STRIPING AND **PAINTING PLAN**

DRAWING No.



CONSULTING ENGINEERS 1710 WALTON ROAD BLUE BELL, PA 19422



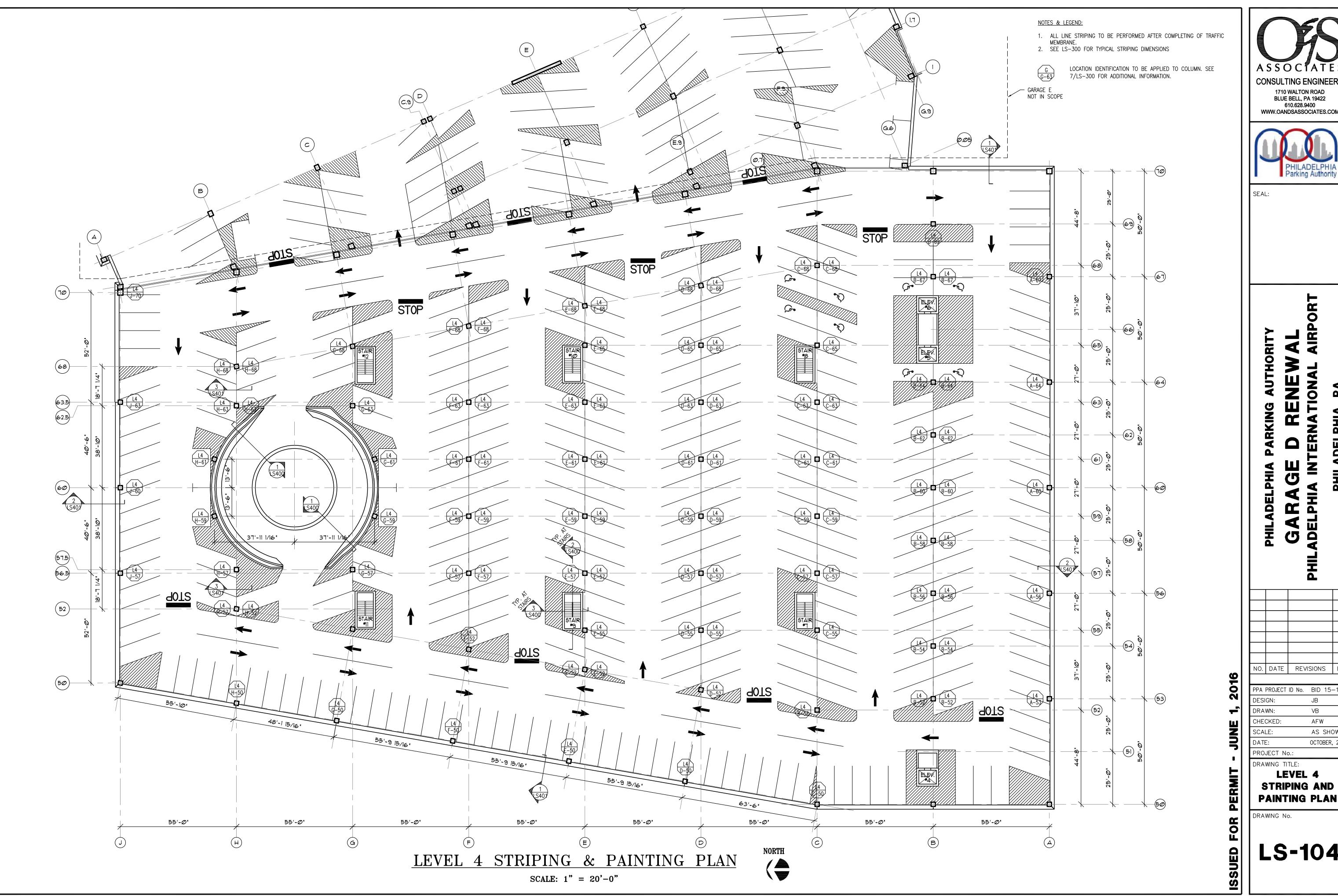
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PPA PROJECT ID No.	BID 15-19
DESIGN:	JB
DRAWN:	VB
CHECKED:	AFW
SCALE:	AS SHOWN
DATF:	OCTOBER, 201

LEVEL 3 STRIPING AND

PAINTING PLAN





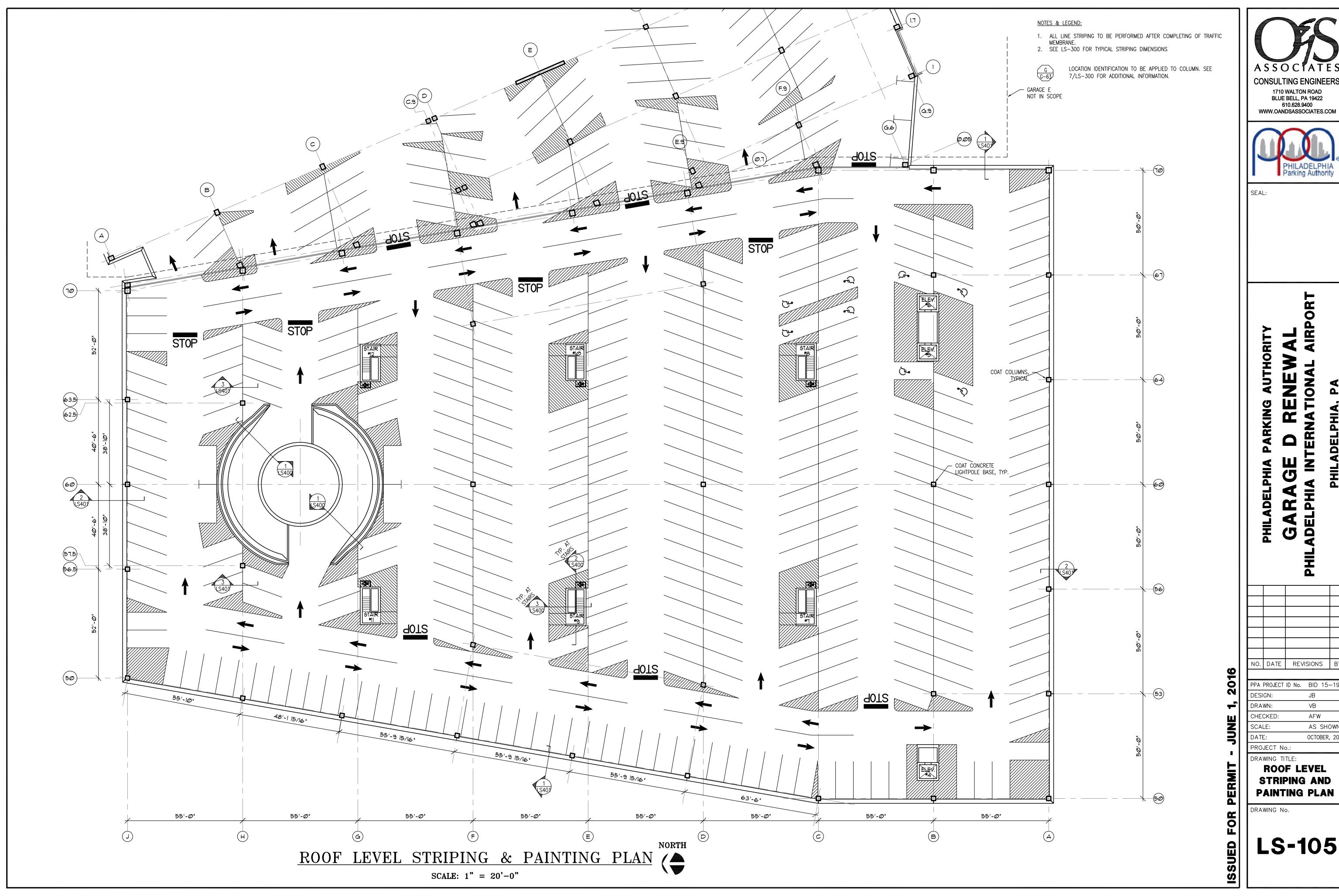


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NO. DATE REVISIONS

PPA PROJECT ID No. BID 15-19 AFW AS SHOWN OCTOBER, 201

LEVEL 4 STRIPING AND **PAINTING PLAN**



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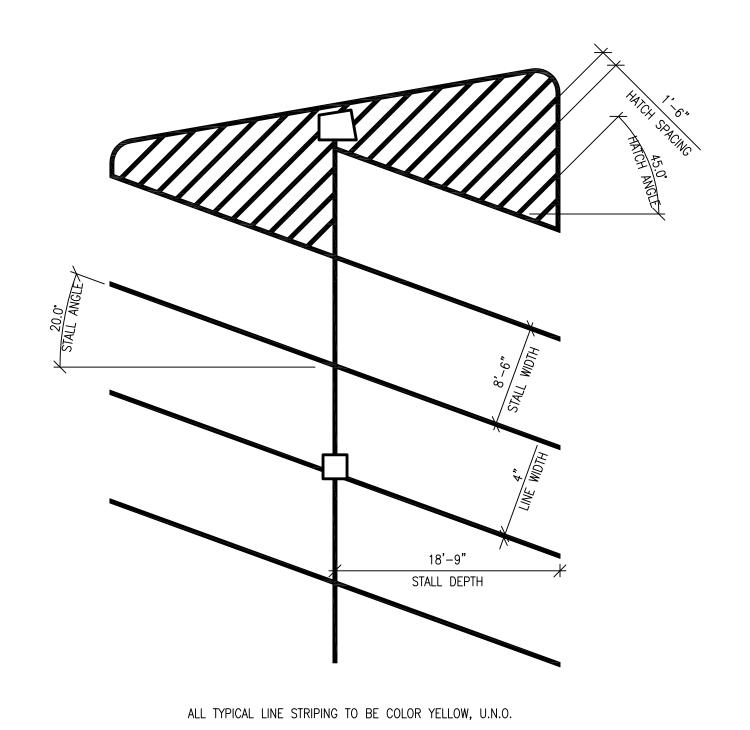


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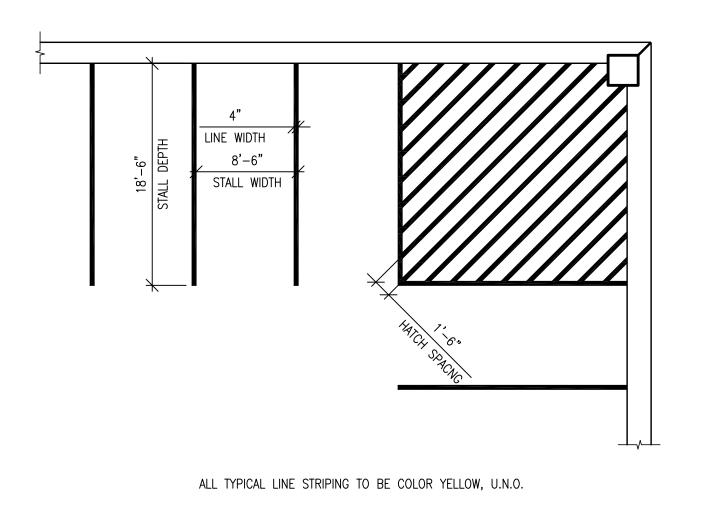
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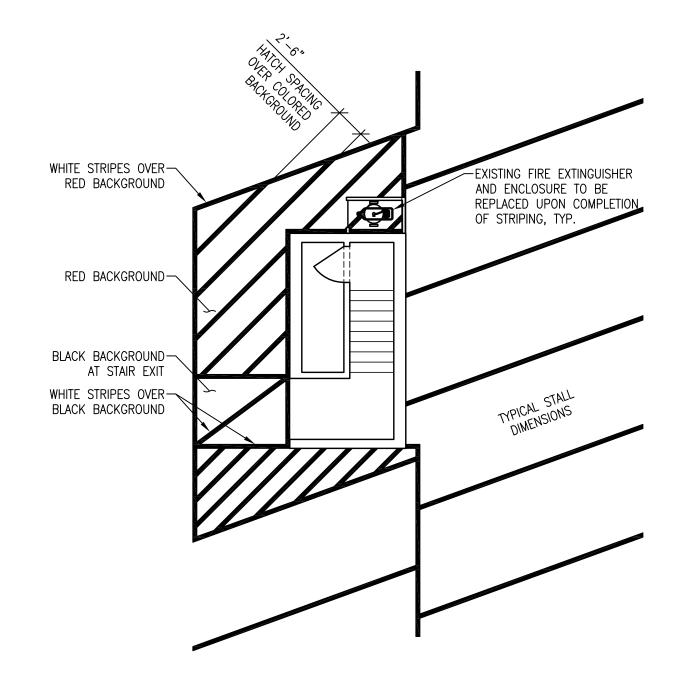
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DESIGN:	JB
DRAWN:	VB
CHECKED:	AFW
SCALE:	AS SHOWN
DATE:	OCTOBER, 201

ROOF LEVEL STRIPING AND **PAINTING PLAN**



TYPICAL ANGLED PARKING STRIPING LAYOUT

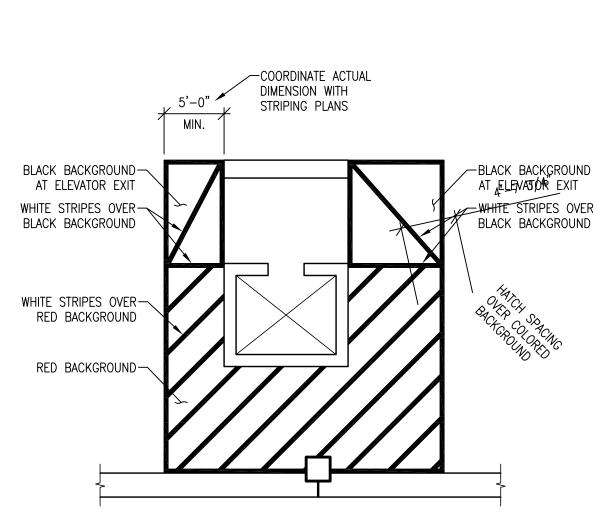




ALL TYPICAL LINE STRIPING TO BE COLOR YELLOW, U.N.O.

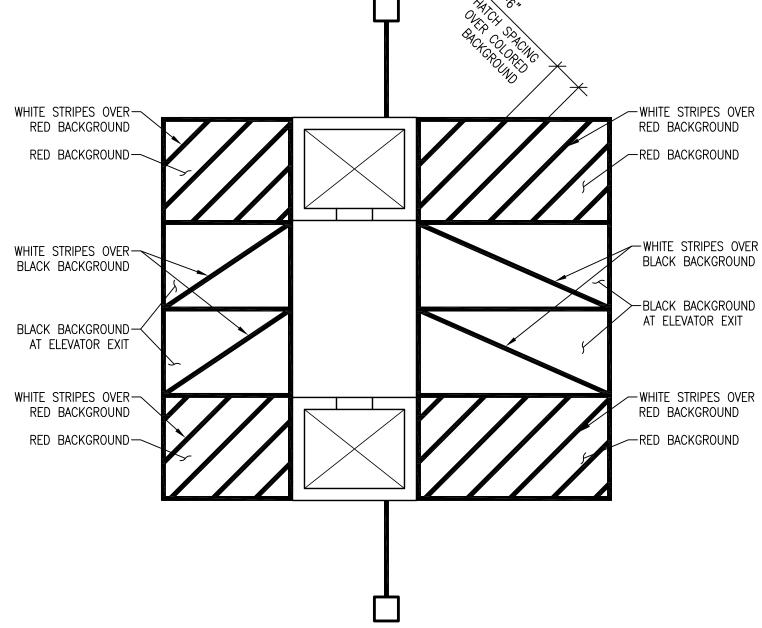
TYPICAL 90° PARKING STRIPING LAYOUT LS300/ SCALE: N.T.S.

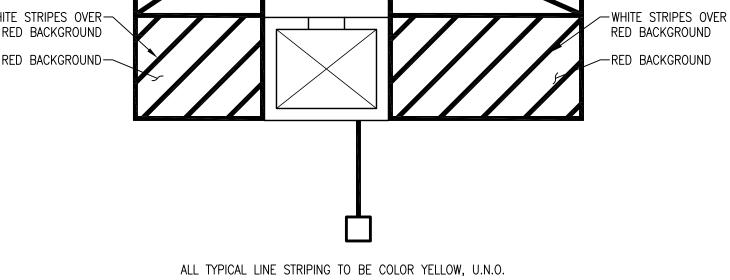




LS300/ SCALE: N.T.S.

LS300 SCALE: N.T.S.

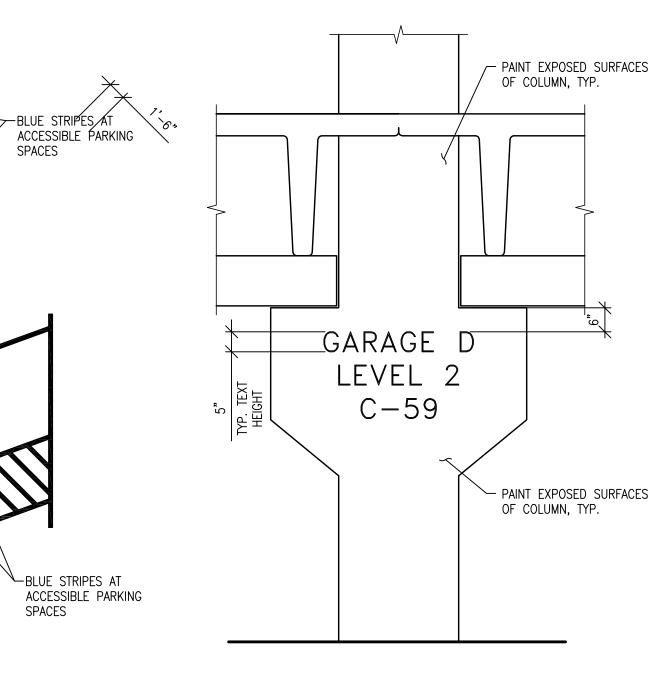


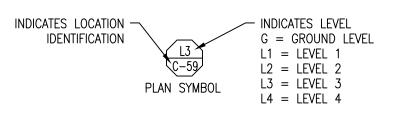


LS300 SCALE: N.T.S.



BLUE STRIPES AT— ACCESSIBLE PARKING SPACES





LOCATION IDENTIFICATION KEY R300 SCALE: N.T.S.

PROJECT No.: DRAWING TITLE:

LINE STRIPING **TYPICAL DETAILS** DRAWING No.

VB

AFW

AS SHOWN

OCTOBER, 201

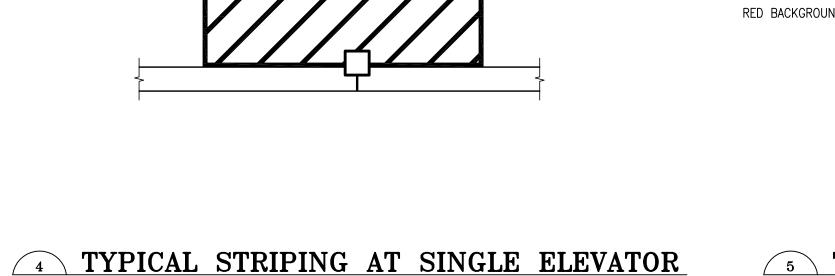
CONSULTING ENGINEERS

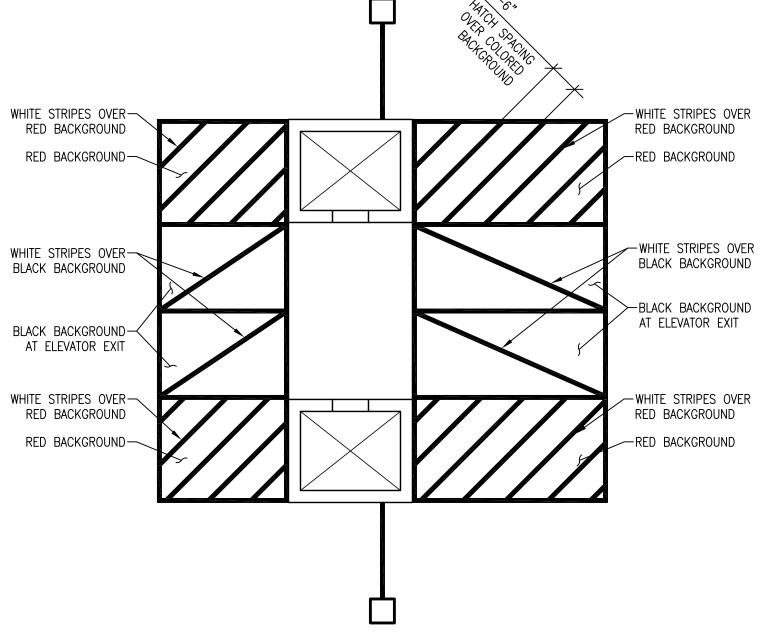
1710 WALTON ROAD BLUE BELL, PA 19422

610.628.9400 WWW.OANDSASSOCIATES.COM

SEAL:

LS-300

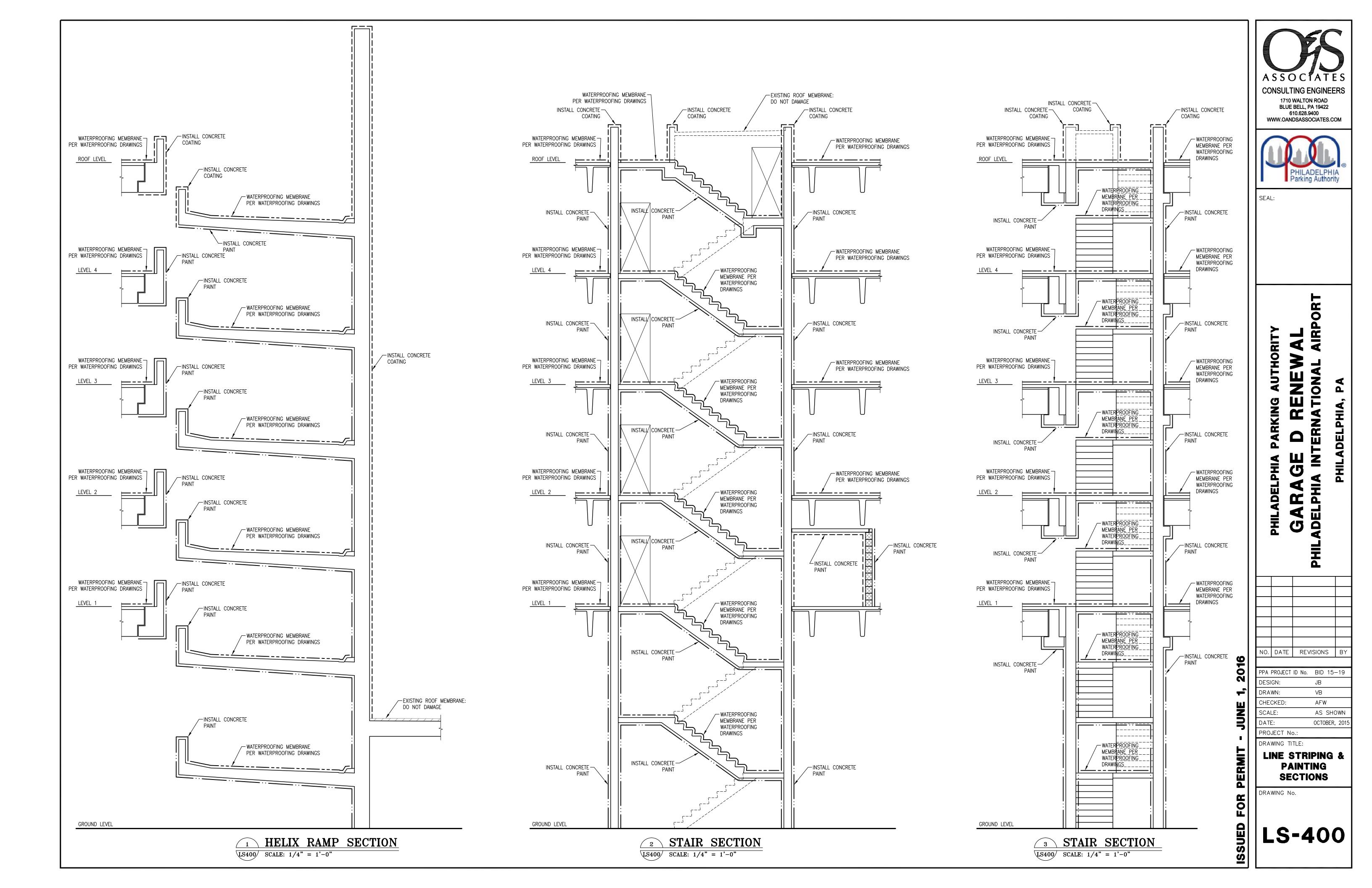


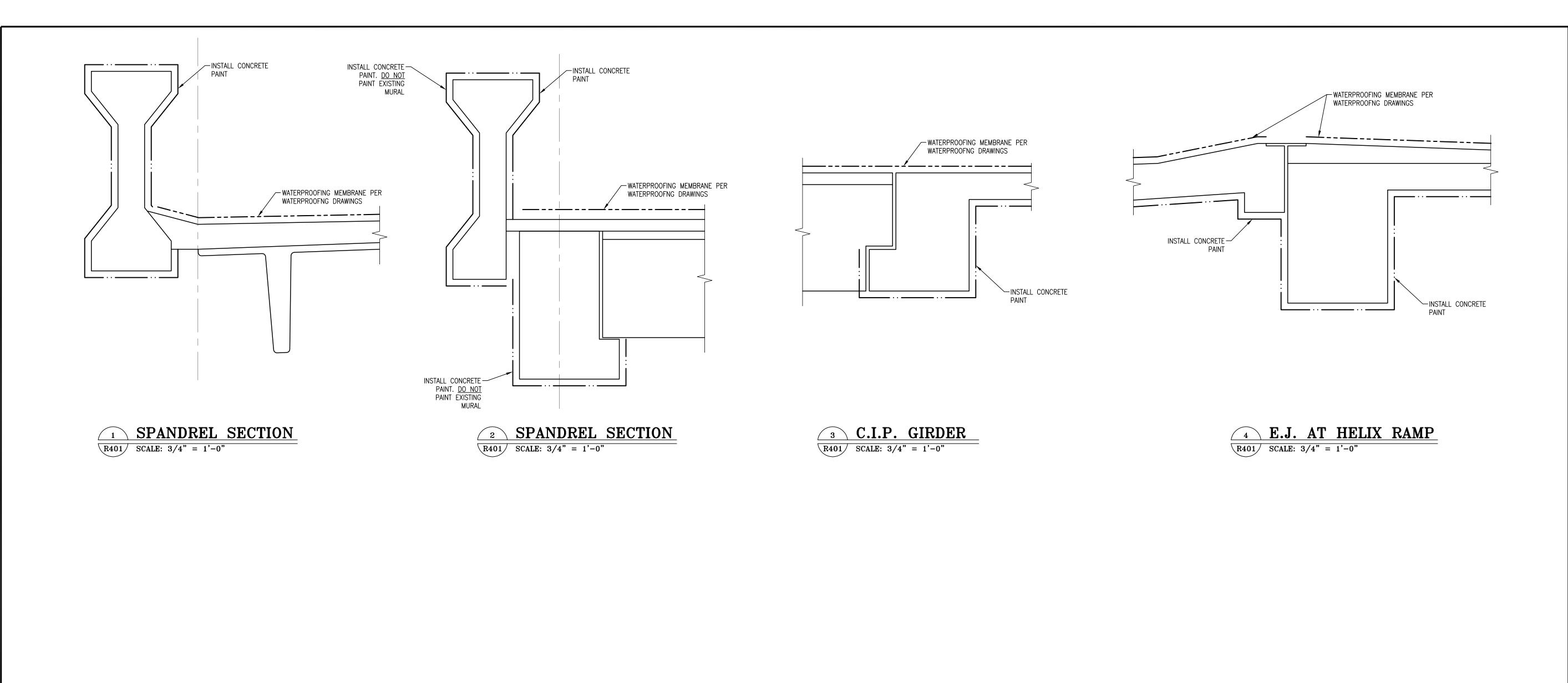


TYPICAL STRIPING AT DOUBLE ELEVATOR

NO. DATE REVISIONS BY 2016 PPA PROJECT ID No. BID 15-19 DESIGN: DRAWN: CHECKED: DATE:

DELPHIA





A S S O C T A T E S

CONSULTING ENGINEERS

1710 WALTON ROAD
BLUE BELL, PA 19422
610.628.9400
WWW.OANDSASSOCIATES.COM

PHILADELPHIA Parking Authority

SEAL:

RAGE D RENEWAL
PHIA INTERNATIONAL AIRPO

NO. DATE REVISIONS BY

PPA PROJECT ID No. BID 15–19
DESIGN: JB

DRAWN: VB

CHECKED: AFW

SCALE: AS SHOWN

DATE: OCTOBER, 201

LINE STRIPING & PAINTING

DATE:
PROJECT No.:

2016

FOR

PROJECT No.:

PRAWING TITLE:

SECTIONS

DRAWING No.