APPENDIX 2

Project Alternatives

Preliminary Garage Design Plans

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

WYANDANCH INTERMODAL TRANSIT FACILITY

DRAWING LIST

No.	Title	Date Issued
G-001.00	TITLE SHEET, DRAWING LISTS	10-20-09
G-002.00	SITE PLAN	10-20-09
ARCHITECTURAL		
A-101.00	FIRST FLOOR PLAN	10-20-09
A-102.00	SECOND FLOOR PLAN	10-20-09
A-103.00	THIRD FLOOR PLAN	10-20-09
A-104.00	FOURTH FLOOR PLAN	10-20-09
A-105.00	FIFTH FLOOR PLAN	10-20-09
A-106.00	SIXTH TO TENTH FLOOR PLAN	10-20-09
A-201.00	BUILDING ELEVATIONS-I	10-20-09
A-202.00	BUILDING ELEVATIONS-II	10-20-09
STRUCTURAL		
S-001	GENERAL NOTES	10-20-09
S-101	FOUNDATION & FIRST FLOOR PLAN	10-20-09
S-102	FOUNDATION AND TYPICAL DETAILS & SCHEDULE	10-20-09
S-103	SHEARWALL LOAD & DETAILS	10-20-09
S-201	SECOND FLOOR FRAMING PLAN	10-20-09
S-202	TYPICAL THIRD TO FIFTH FLOOR FRAMING PLAN	10-20-09
S-203	ROOF FRAMING & ROOF BULKHEAD PLANS	10-20-09
S-301	SECTIONS & DETAILS - 1	10-20-09

DESIGNED BY: A. I.

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DRAWN BY: K. L.

COMPARED BY:

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LINDENHURST, NEW YORK

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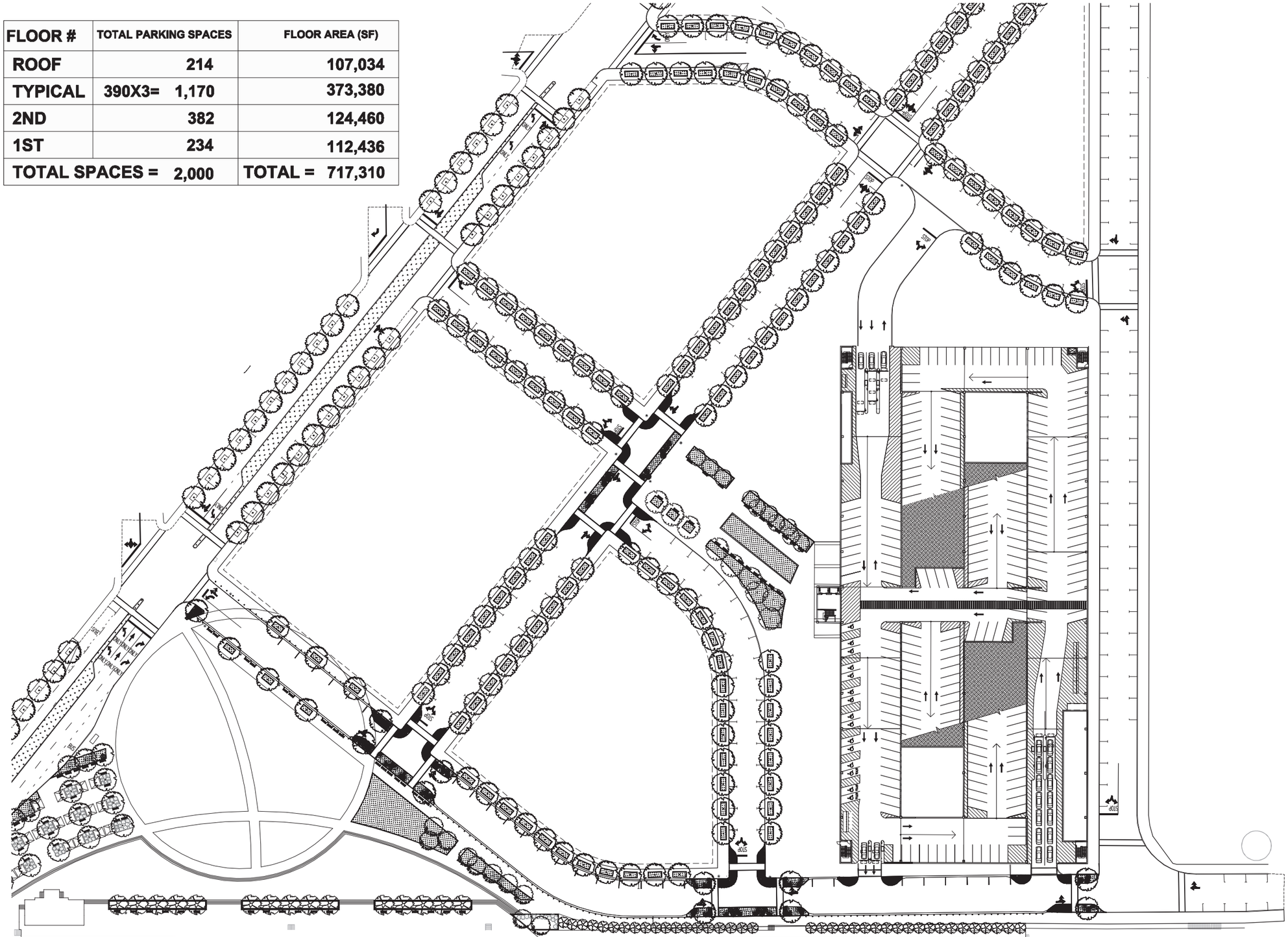
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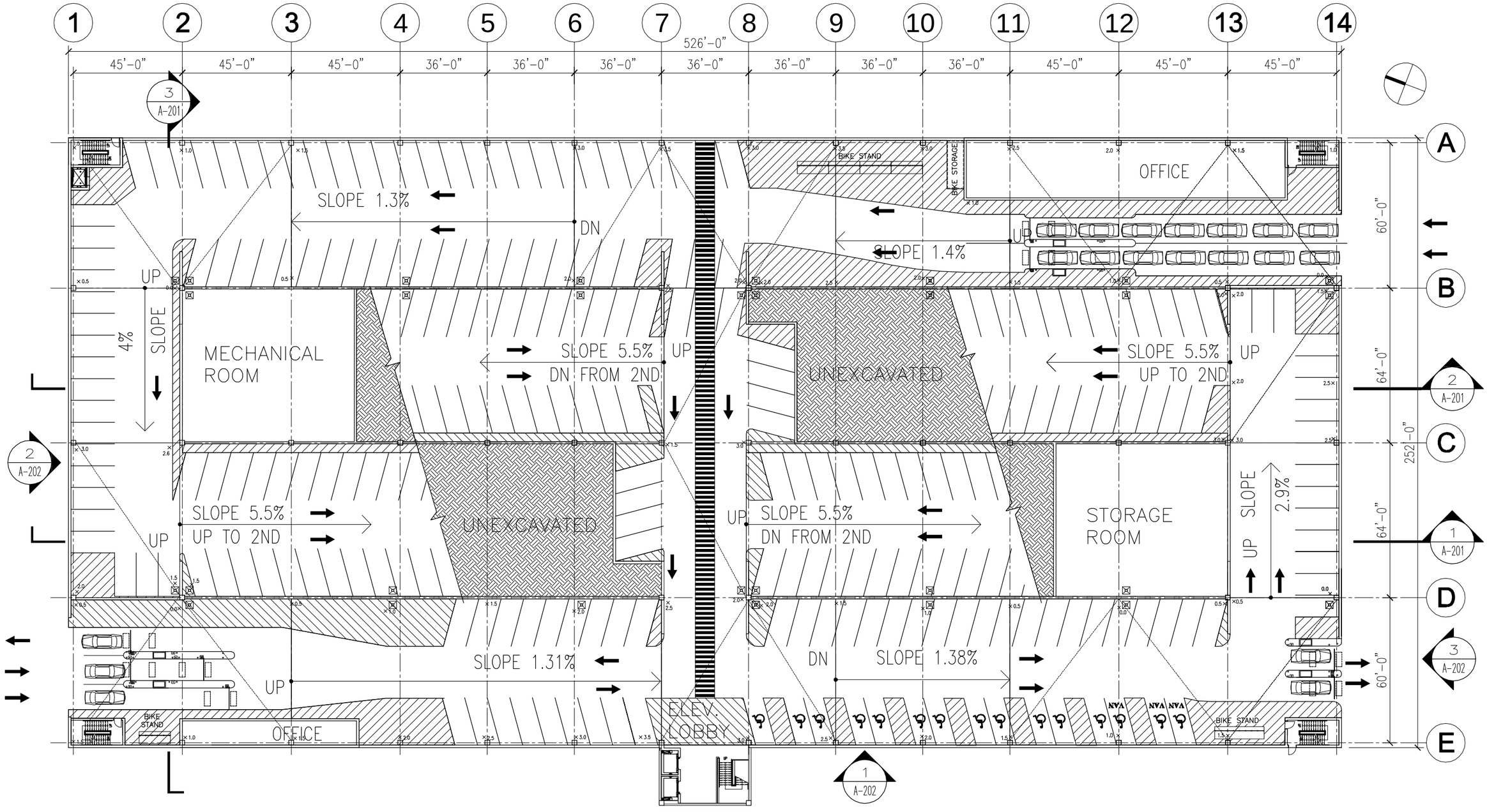
FIRST FLOOR PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	G-001.00	1 OF 18

November 13, 2009
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FLOOR #	TOTAL PARKING SPACES	FLOOR AREA (SF)
ROOF	214	107,034
TYPICAL	390X3= 1,170	373,380
2ND	382	124,460
1ST	234	112,436
TOTAL SPACES =	2,000	TOTAL = 717,310


STOP
BUS
BUS
BUS



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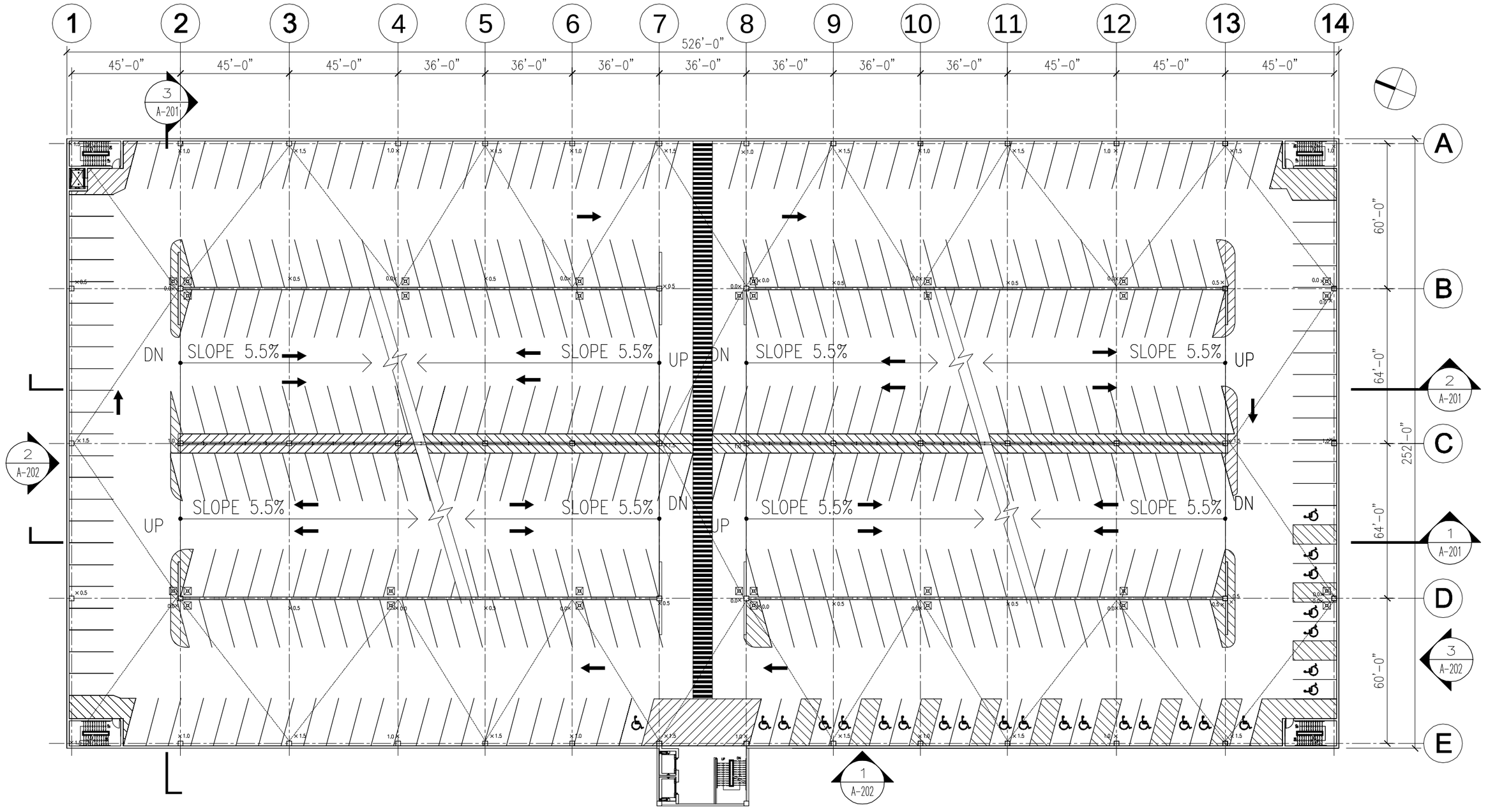
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FIRST FLOOR PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-101.00	3 OF 18

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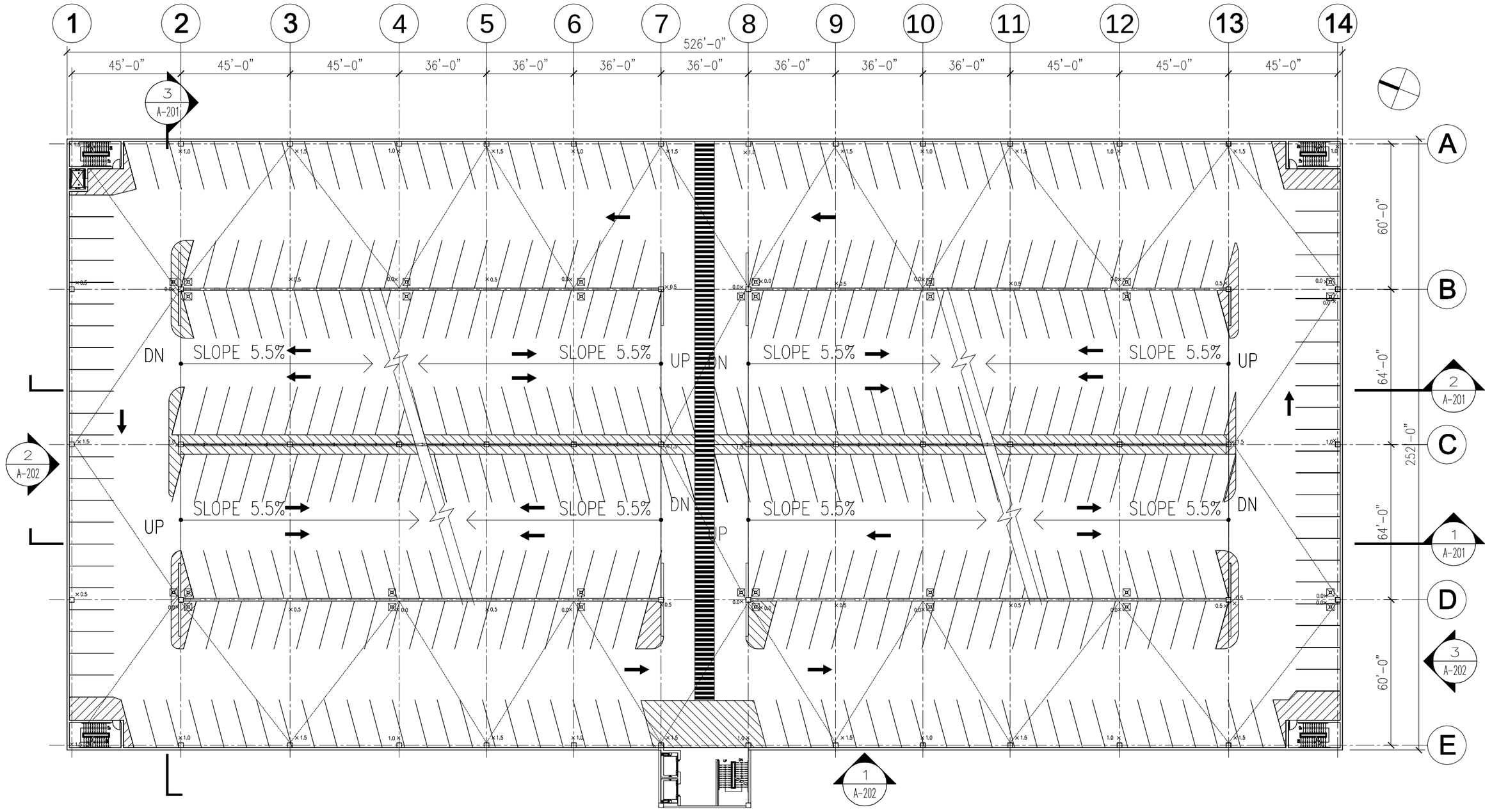
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SECOND FLOOR PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-102.00	4 OF 18

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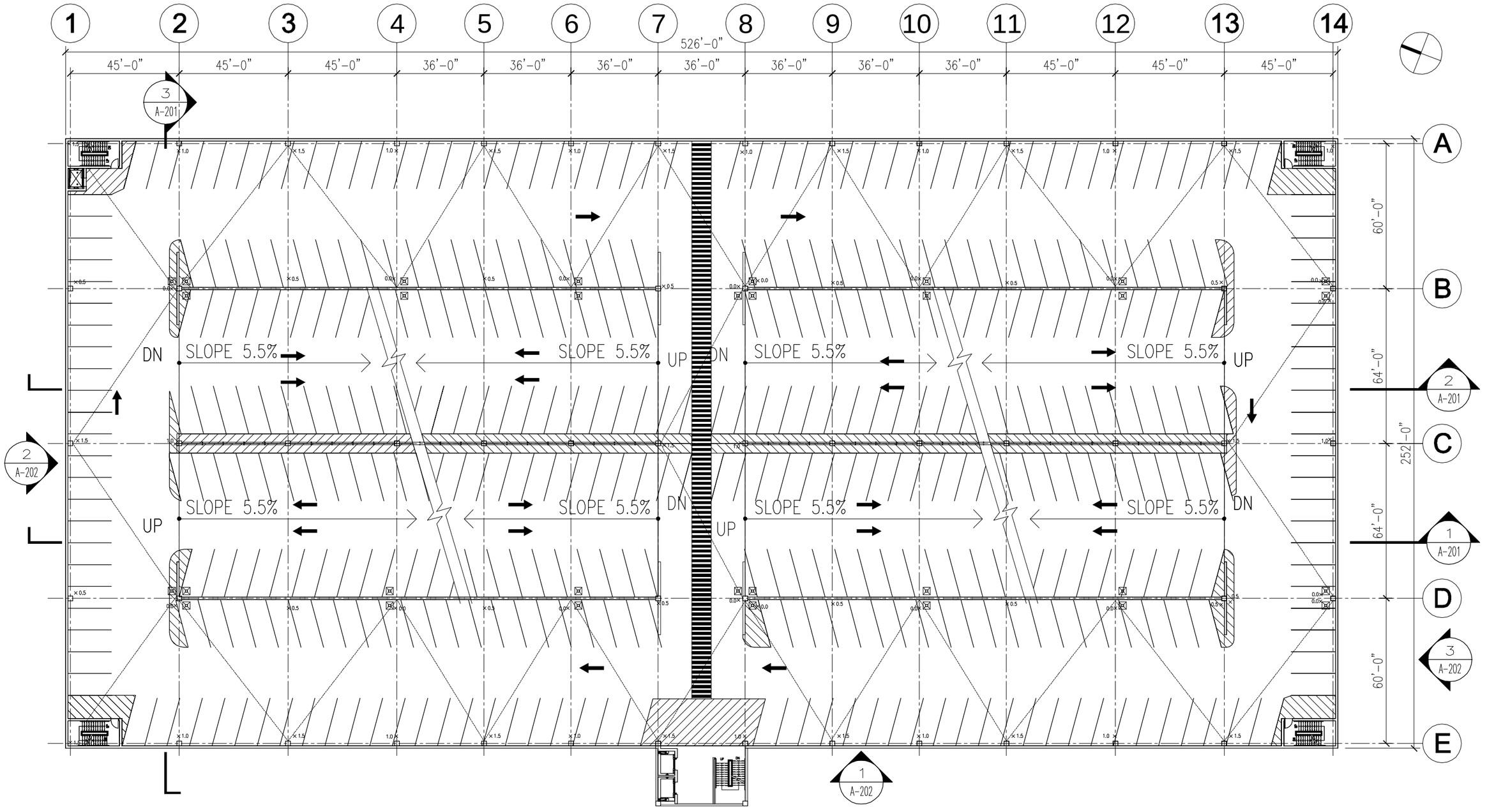
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THIRD FLOOR PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-103.00	5 OF 18

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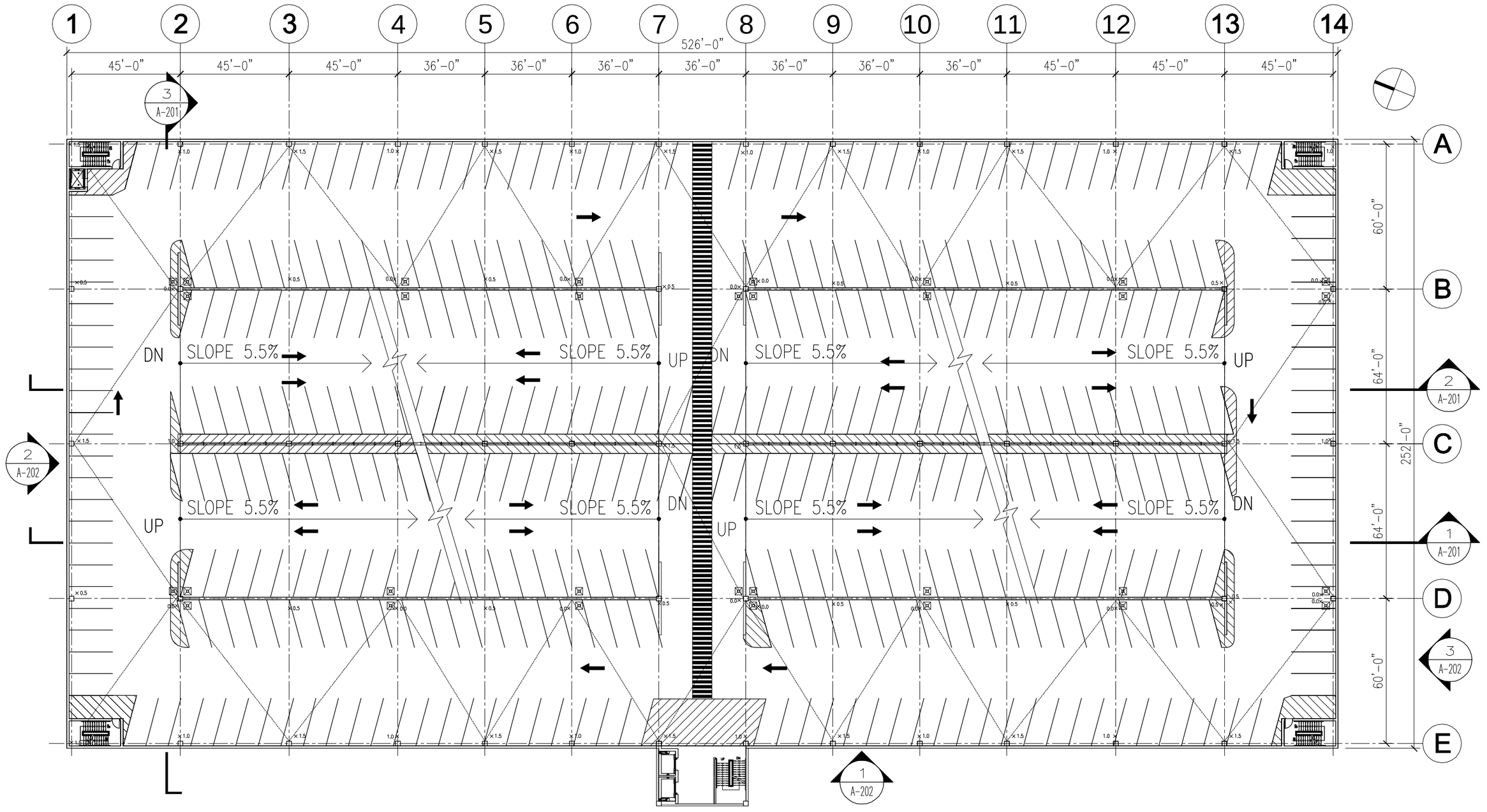
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FOURTH FLOOR PLAN

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	1"=20'-0"	A-104.00	6 OF 18

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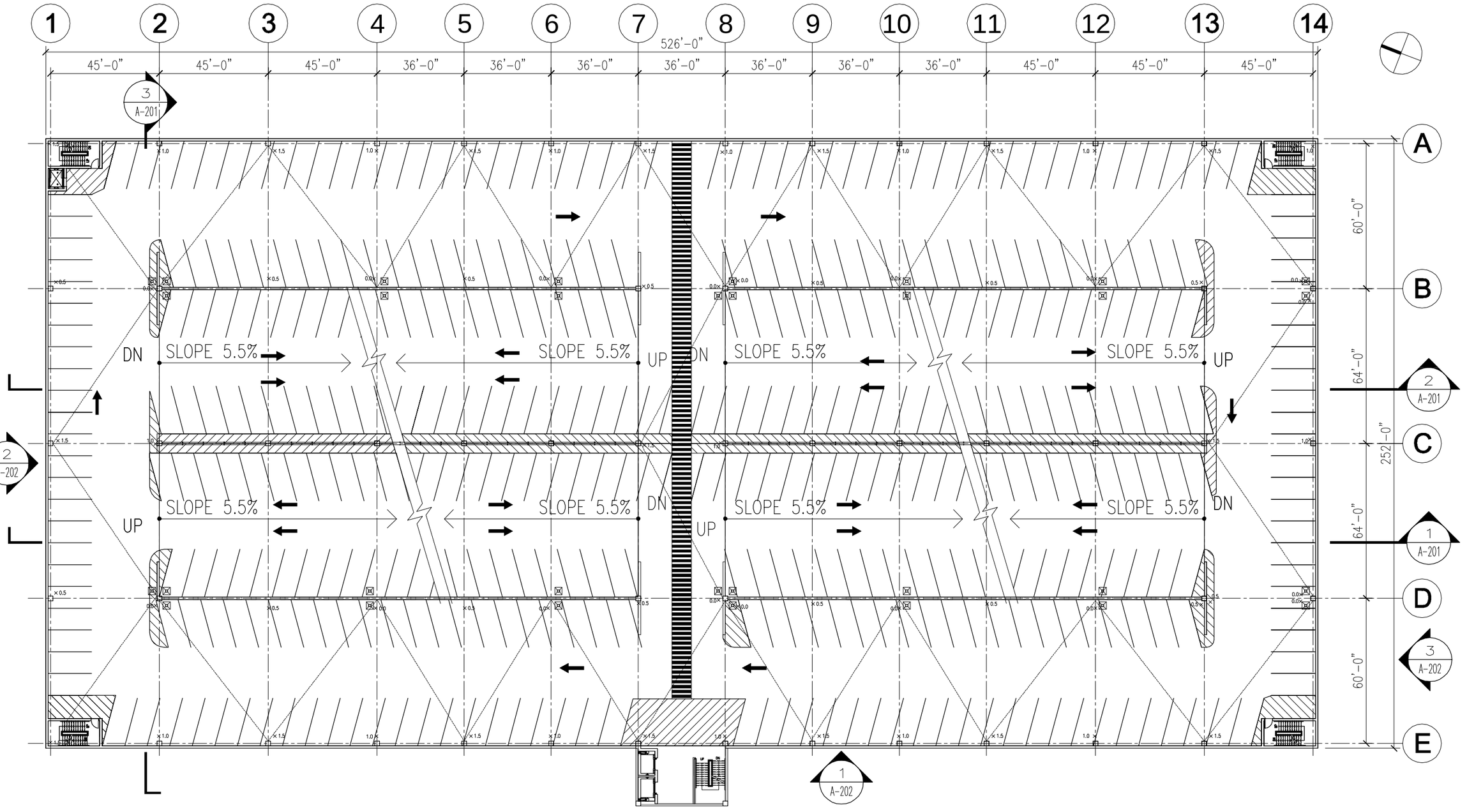
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FIFTH FLOOR PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-105.00	7 OF 18

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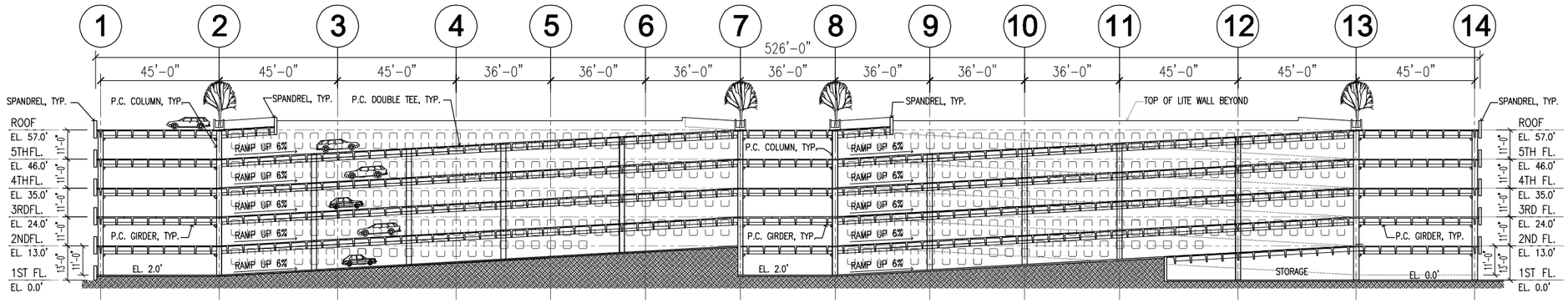
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WYANDANCH INTERMODAL TRANSIT FACILITY

ROOF PLAN

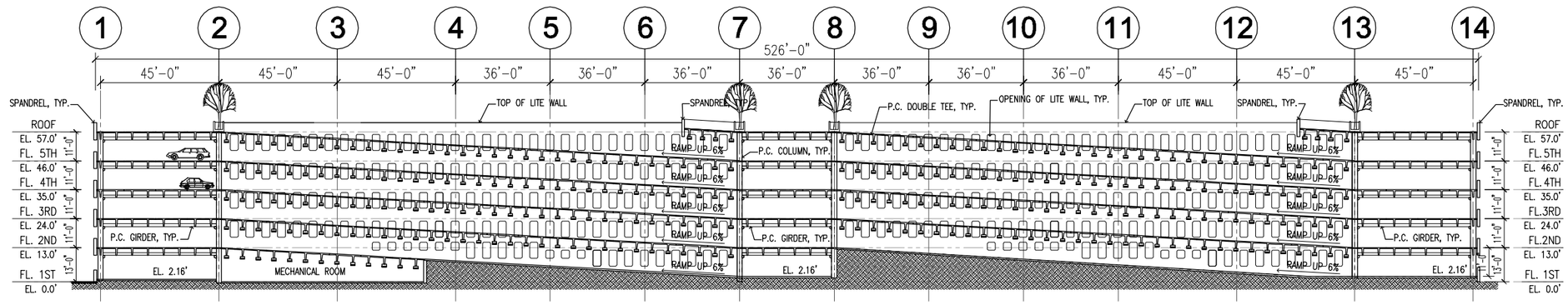
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-106.00	8 OF 18

November 12, 2009
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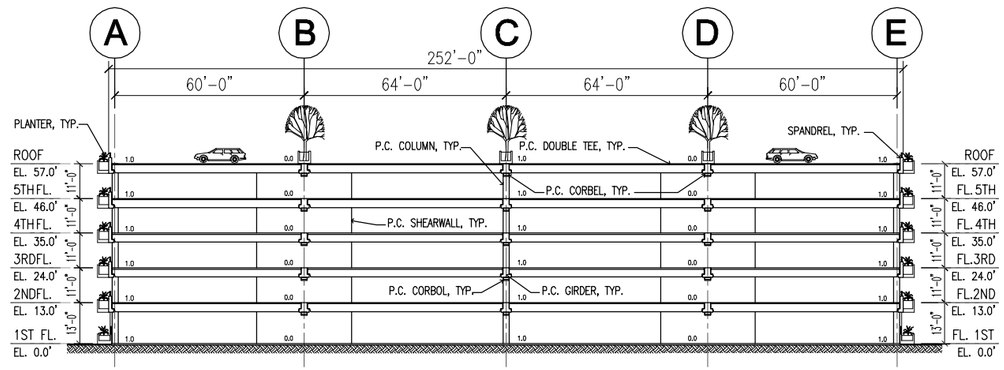
1 BUILDING SECTION - 1

SCALE : 1"=20'-0"



2 BUILDING SECTION - 2

SCALE : 1"=20'-0"



3 BUILDING SECTION - 3

SCALE : 1"=20'-0"

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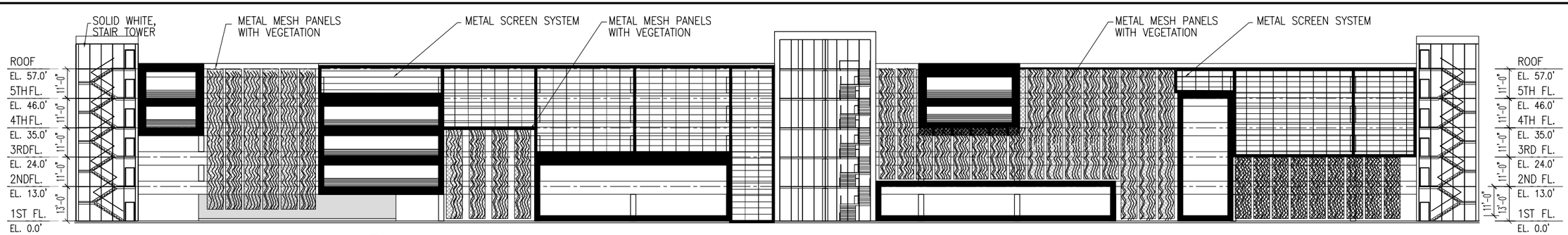
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WYANDANCH INTERMODAL TRANSIT FACILITY

BUILDING SECTIONS

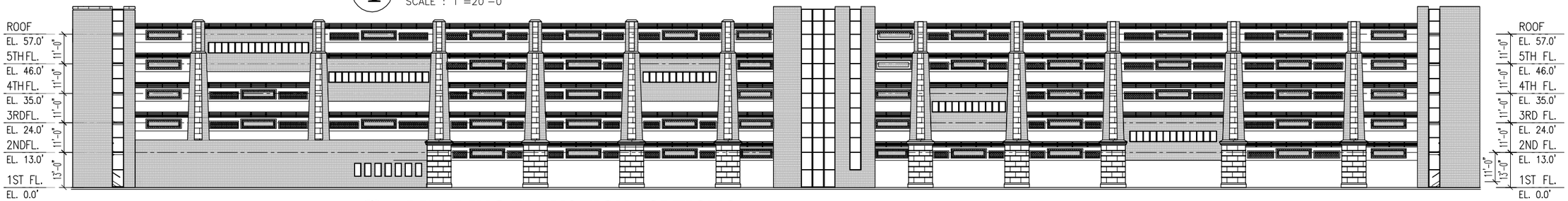
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-201.00	9 OF 18

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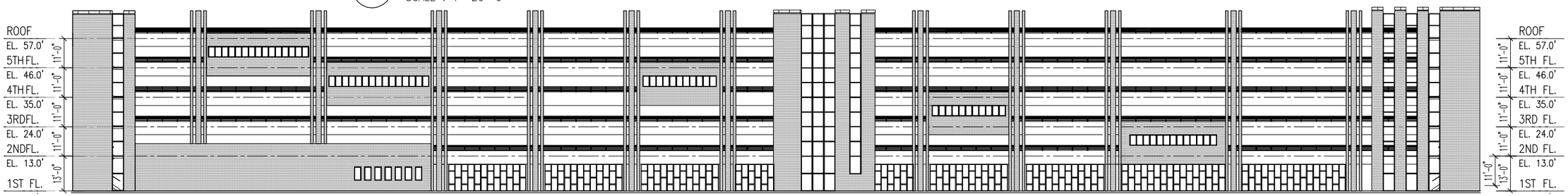
1 BUILDING ELEVATION - OPTION 1

SCALE : 1"=20'-0"



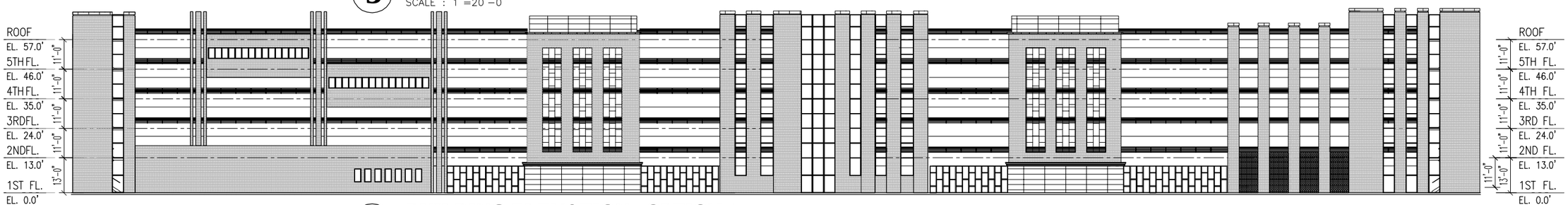
2 BUILDING ELEVATION - OPTION 2

SCALE : 1"=20'-0"



3 BUILDING ELEVATION - OPTION 3

SCALE : 1"=20'-0"



4 BUILDING ELEVATION - OPTION 4

SCALE : 1"=20'-0"

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WYANDANCH INTERMODAL TRANSIT FACILITY

BUILDING ELEVATIONS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=20'-0"	A-202.00	10 OF 18

November 13, 2009
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SHALLOW FOUNDATION NOTES:

1. INSPECTION AND TESTING OF FOUNDATION AND EARTHWORK CONSTRUCTION SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND INSPECTION AGENCY AND UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER SPECIALIZING IN GEOTECHNICAL ENGINEERING. THE TESTING AND INSPECTION AGENCY SHALL BE HIRED BY THE OWNER.

2. FOOTINGS SHALL BE FOUNDED ON STABLE SOIL WITH A MINIMUM ALLOWABLE GROSS BEARING CAPACITY AS DETERMINED BY THE GEOTECHNICAL CONSULTANT. THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE ESTIMATED FROM THE DATA CONTAINED IN THE GEOTECHNICAL REPORT. FINAL, EXACT BEARING ELEVATIONS AND THE CAPACITY SHALL BE FIELD VERIFIED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY.

3. LOAD BEARING FILL UNDER SLABS AS REQUIRED TO RAISE THE SITE GRADE SHALL BE PERFORMED WITH MATERIALS AND COMPACTION METHODS AS APPROVED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY. LOAD BEARING FILL UNDER SLABS SHALL BE PERFORMED UNDER FULL TIME OBSERVATION OF THE INDEPENDENT TESTING AND INSPECTION AGENCY. FILL SHALL BE PLACED IN LOOSE LIFTS 8" THICK AND BE COMPACTED TO 95% OF MAXIMUM DENSITY, PER ASTM D1557. EACH LIFT OF FILL IS SUBJECT TO APPROVAL. ANY FILL NOT APPROVED OR FILL INSTALLED WITHOUT THE OBSERVATION OF THE INDEPENDENT TESTING AND INSPECTION AGENCY IS SUBJECT TO REMOVAL AT THE CONTRACTOR'S EXPENSE.

4. THE SUBGRADE FOR FOOTINGS SHALL BE INSPECTED AND APPROVED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY IMMEDIATELY PRIOR TO PLACING CONCRETE.

5. SLAB SUBGRADES, INCLUDING PIT SLABS, SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY, PER ASTM D1557. BACKFILL AROUND AND ABOVE ALL FOUNDATION ELEMENTS, FOOTINGS, WALLS AND PITS SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY, PER ASTM D1557.

6. ALL ORGANIC AND/OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUBGRADE AND BACKFILL AREAS AND BACKFILLED WITH SUITABLE FILL, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY, PER ASTM D1557.

7. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL ALL SUPPORTING SLABS AND/OR TEMPORARY BRACING HAVE BEEN PLACED AND THE WALL CONCRETE HAS ATTAINED FULL 28 DAY DESIGN STRENGTH.

8. NO FOOTINGS OR SLABS SHALL BE PLACED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE. SHOULD WATER OR FROST ENTER A FOOTING EXCAVATION AFTER SUBGRADE APPROVAL, THE SUBGRADE SHALL BE RE-INSPECTED BY THE INDEPENDENT TESTING AND INSPECTION AGENCY AFTER REMOVAL OF WATER OR FROST.

9. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING ENCLOSURE.

10. UNLESS SHOWN OTHERWISE, SLABS-ON-GRADE SHALL BE PLACED OVER FOUR (4) INCHES OF COMPACTED GRANULAR UNDERSLAB FILL, OVER A VAPOR RETARDER, OVER A MINIMUM OF TWELVE (12) INCHES OF COMPACTED GRANULAR POROUS FILL MATERIAL OVER A COMPACTED SUBGRADE.

DEEP FOUNDATION NOTES: (ALTERNATE FOUNDATION SYSTEM)

1. ALL CAISSONS SHALL BEAR ON THE INTACT ROCK WITH A MINIMUM ALLOWABLE BEARING CAPACITY AS RECOMMENDED AND APPROVED BY THE OWNER'S GEOTECHNICAL CONSULTANT. ROCK BELOW THE CAISSON BOTTOM SHALL BE VERIFIED BY PROBING AS REQUIRED BY THE GEOTECHNICAL CONSULTANT.

2. THE BOTTOM OF CAISSON ELEVATION NOTED ON THE DRAWING AND THE QUANTITY OF ROCK TO BE REMOVED ARE ESTIMATED BASED UPON THE GEOTECHNICAL EXPLORATION REPORT. NO CAISSON SHALL BE INSTALLED WITH A LENGTH LESS THAN THE DIAMETER OF THE BEARING AREA. CAISSONS MAY BE EXTENDED DEEPER INTO THE ROCK TO ACCOMODATE LENGTH REQUIREMENTS.

3. THE CONTRACTOR SHALL PREPARE CONSTRUCTION PROCEDURES AND SEQUENCES WITH LAYOUT DRAWINGS INCLUDING REINFORCEMENT DETAILS AND SUBMIT TO THE DESIGN PROFESSIONAL FOR REVIEW AND TO THE OWNER'S GEOTECHNICAL CONSULTANT FOR APPROVAL PRIOR TO THE START OF CAISSON CONSTRUCTION.

4. THE ESTIMATED BOTTOM OF CAISSON ELEVATION IS, IN SOME LOCATIONS, BELOW THE LEVEL OF OBSERVED GROUND WATER. THE CONTRACTOR SHALL SUBMIT CONSTRUCTION PROCEDURES SPECIFICALLY TO ADDRESS THIS CONDITION. NO CONCRETE SHALL BE PLACED INTO A CAISSON CONTAINING FREE WATER.

5. THE BOTTOM OF EACH CAISSON SHALL BE THOROUGHLY CLEANED OF LOOSE MATERIALS.

6. ALL CAISSON REINFORCING SHALL BE ASTM A615, GRADE 60.

7. THE CAISSON CONCRETE SHALL BE PLACED USING A HOPPER AND CHUTE PIPE AT THE TOP OF THE CAISSON EXCAVATION.

8. LAITANCE MATERIALS SHALL BE REMOVED FROM THE TOP OF EACH CAISSON PRIOR TO FURTHER CONSTRUCTION.

9. EACH CAISSON WHICH SUPPORTS A SHEAR WALL SHALL HAVE A LATERAL LOAD CAPACITY AS INDICATED IN THE SOIL RREPORT. GEOTECHNICAL ENGINEER TO OF CAISSON BASED ON ACTUAL FIELD CONDITION.

10. SEE SPECIFICATION SECTION 02380 "CAISSONS" FOR ADDITIONAL REQUIREMENTS.

STRUCTURAL CONCRETE NOTES:

1. PROVIDE CAST-IN-PLACE CONCRETE OF THE TYPES AND MINIMUM 28-DAY COMPRESSIVE STRENGTHS OF 4000 PSI.

2. CONCRETE SHALL CONTAIN EITHER A WATER-REDUCING, PLASTICIZING ADMIXTURE OR A HIGH-RANGE WATER-REDUCING ADMIXTURE. ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE.

3. SUBMIT PROPOSED MIX DESIGNS FOR EACH CLASS OF CONCRETE TO THE DESIGN PROFESSIONAL FOR APPROVAL. EACH MIX DESIGN, AND ITS ASSOCIATED SUPPORT DATA, WILL BE CLEARLY LABELED AS TO CLASS OF CONCRETE, PROPOSED LOCATION(S) AND TIME(S) OF USE AND METHOD(S) OF PLACEMENT.

4. REINFORCING BARS SHALL BE NEW BILLET STEEL COMPLYING WITH ASTM A615, GRADE 60.

5. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A185.

6. SUBMIT CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING REBAR AND WELDED WIRE FABRIC SIZES, SPACING AND PLACEMENT, TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO FABRICATION.

7. SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS AND DETAILS OF ALL CONSTRUCTION JOINTS, CURBS, SHELVES, SLAB DEPRESSIONS, SLEEVES, OPENINGS, ETC. DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO PLACEMENT OF CONCRETE.

8. WHERE REQUIRED, DOWELS SHALL MATCH SIZE, NUMBER AND SPACING OF MAIN REINFORCING.

9. PROVIDE THE FOLLOWING REINFORCEMENT UNLESS NOTED OTHERWISE:

   WALLS AND STRUCTURAL SLABS: #4 @ 12" EACH WAY, EACH FACE.

   SLABS-ON-GRADE: ONE LAYER 6 X 6 W4.0 X W4.0 W.W.F. SHEET MESH

   FILLS ABOVE STRUCTURAL SLABS: #4 @ 12" EACH WAY, TOP.

   EQUIPMENT PADS: ONE LAYER 6 X 6 W4.0 X W4.0 W.W.F. SHEET MESH

10. CONSTRUCTION JOINTS IN ALL SLABS, BEAMS AND WALLS SHALL NOT BE FURTHER APART THAN 80 FEET IN ANY DIRECTION. EXPANSION JOINTS IN SLABS AND BEAMS SHALL BE AS SHOWN. CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE AS SHOWN.

11. SEE SPECIFICATION SECTION 03300, "CAST-IN-PLACE CONCRETE" FOR ADDITIONAL REQUIREMENTS.

PROJECT DESIGN LOADS:

DESIGN CODE : IBC 2003

SNOW LOAD:
- GROUND SNOW LOAD (PG) = 25 PSF
- FLAT ROOF SNOW LOAD (PF) = 18 PSF
- SNOW EXPOSURE FACTOR (CE) = 1.0
- SNOW LOAD IMPORTANCE FACTOR (I) = 1.0
- SNOW DRIFT PER IBC 2003

WIND LOAD:
- BASIC WIND SPEED = 110 MPH
- WIND LOAD IMPORTANCE FACTOR (I) = 1.0
- WIND EXPOSURE = "C" OPEN TERRAIN
- MAIN WINDFORCE-RESISTING SYSTEM
  - DESIGN WIND PRESSURE (P) = 20 PSF
  - ROOF DESIGN WIND VERTICAL PRESSURE (P) = 24 PSF

EARTHQUAKE LOAD:
- SITE CLASS = D (FOR SHALLOW FOUNDATION)
- OCCUPANCY CATEGORY = GROUP II
- Ss = 0.2g
- S1 = 0.06g

STRUCTURAL SYSTEM :
- REINFORCED CONCRETE SHEAR WALLS (TABLE 1617.6.2)
- RESPONSE MODIFICATION FACTOR (R) = 3
- DEFLECTION AMPLIFICATION FACTOR (CD) = 4

LIVE LOAD:

FLOOR	50 PSF
ROOF	50 PSF
STAIR	100 PSF

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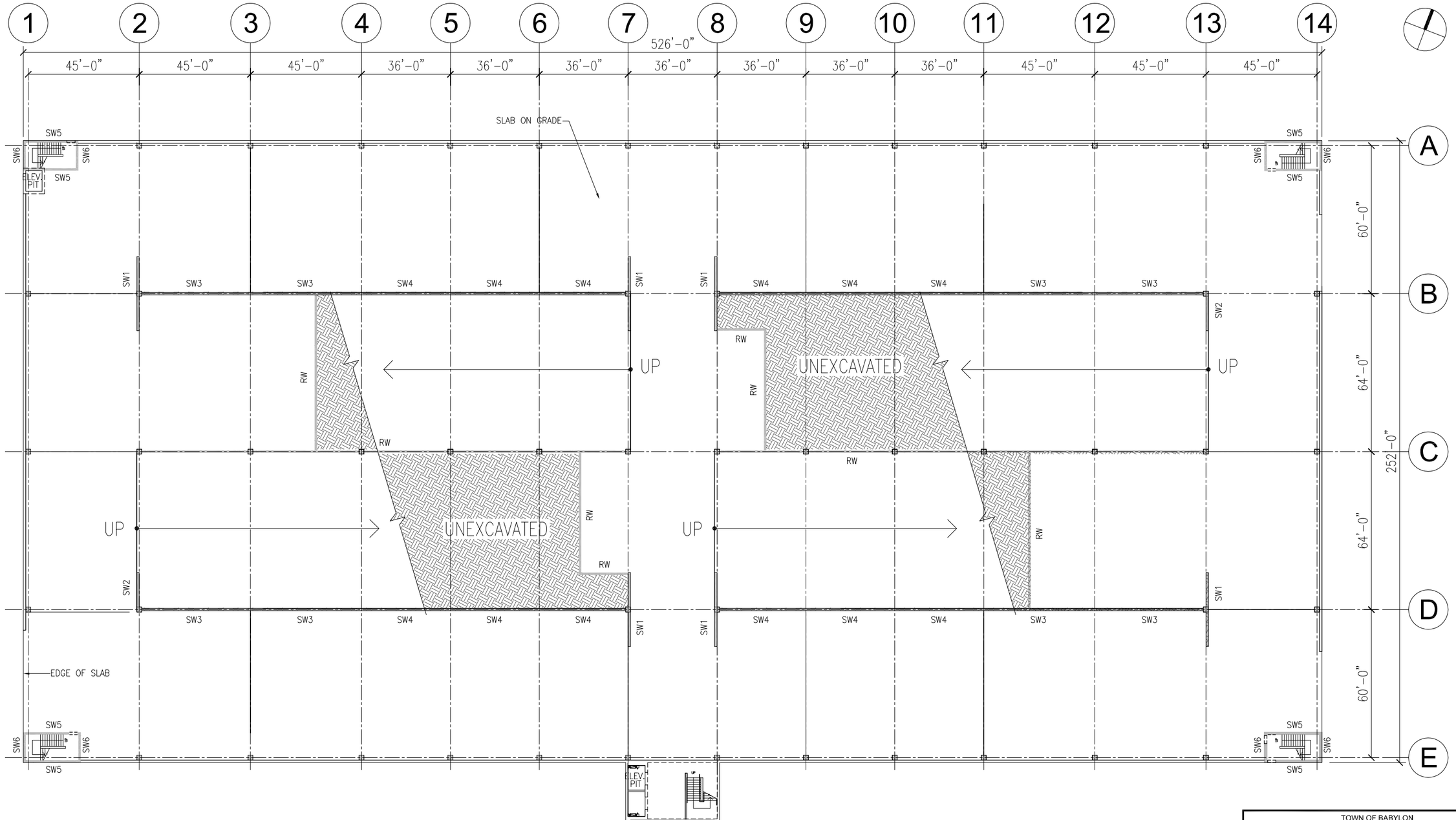
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WYANDANCH INTERMODAL TRANSIT FACILITY

GENERAL NOTES

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	N.T.S.	S-001	11 OF 18



DESIGNED BY: J. HEDGES

CHECKED BY: P. OCAVA

DRAWN BY: J. MEJIA

COMPARED BY: N. MONTECILLO

SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

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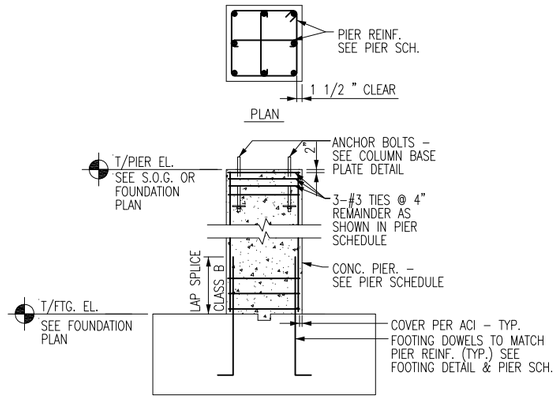
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WYANDANCH INTERMODAL TRANSIT FACILITY

FOUNDATION AND
FIRST FLOOR PLAN

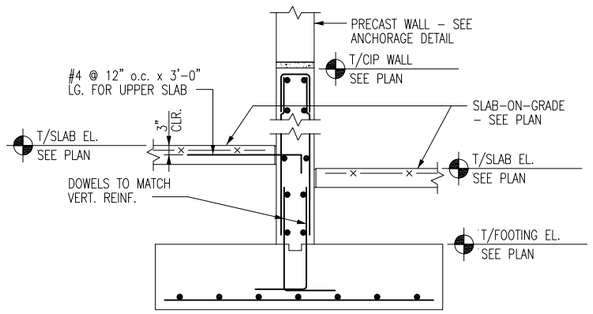
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1" = 20'-0"	S101	12 OF 18

November 13, 2009
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1 S-102 PIER DETAIL

SCALE : NTS



2 S-102 WALL FOOTING SECTION

SCALE : NTS

DESIGNED BY: J. HEDGES

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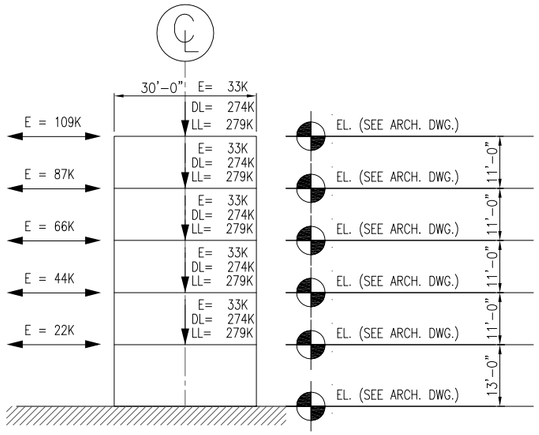
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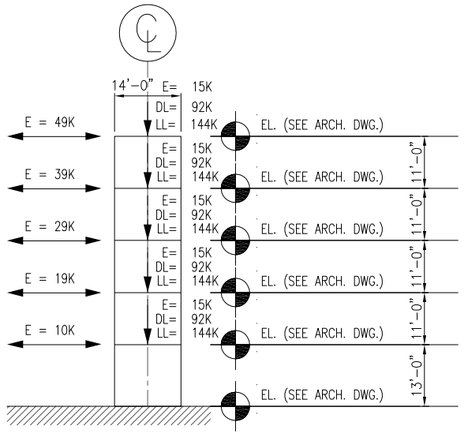
FOUNDATION TYPICAL
DETAILS & SCHEDULE

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	AS NOTED	S-102	13 OF 18

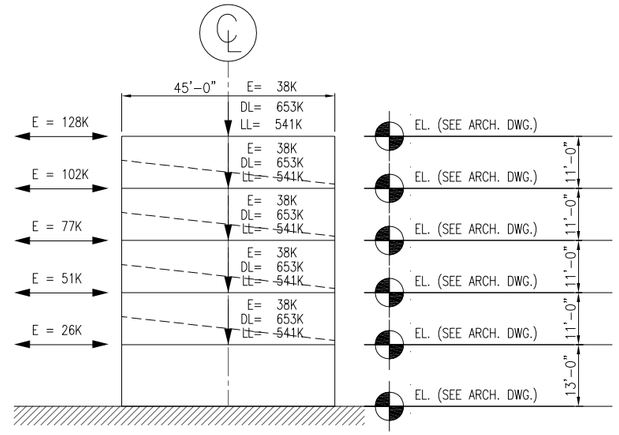
November 13, 2009
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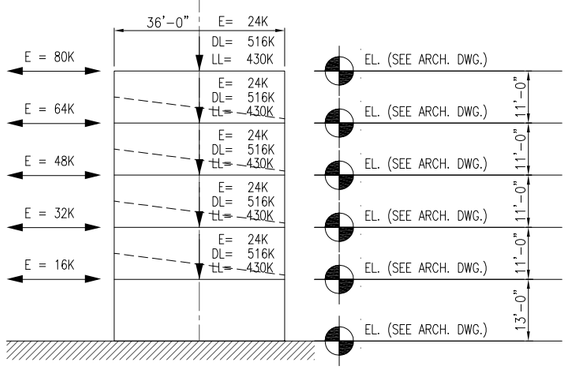
1 S-103 SHEAR WALL ALONG COL LINES 2 & 13, 7 & 8 (SW1)
SCALE : NTS



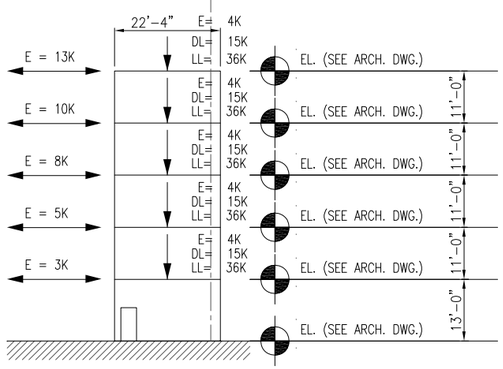
2 S-103 SHEAR WALL ALONG COL LINES 2 & 13 (SW2)
SCALE : NTS



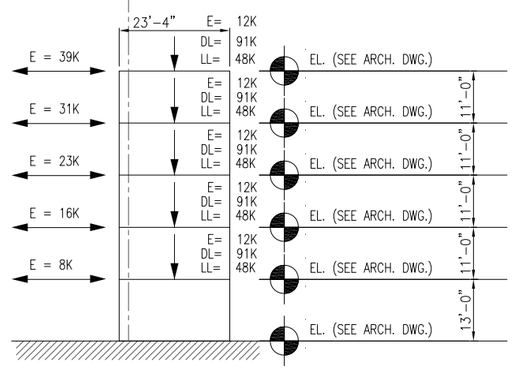
3 S-103 SHEAR WALL ALONG COL LINES B & D (SW3)
SCALE : NTS



4 S-103 SHEAR WALL ALONG COL LINES B & D (SW4)
SCALE : NTS



5 S-103 SHEAR WALL ALONG COL LINES A & E (SW5)
SCALE : NTS



6 S-103 SHEAR WALL ALONG COL LINES 1 & 14 (SW6)
SCALE : NTS

PARKING STRUCTURE LOADS		
AREA OR LOADING	SUPERIMPOSED LOAD	LIVE/WIND/ SEISMIC LOAD
COVERED PARKING & DRIVING	5 PSF	50 PSF OR 2000 LBS. CONC. ON 20 SQ. IN.
ROOF PARKING & DRIVING	5 PSF	68 PSF (50 + 18 SNOW) OR 2000 LBS. CONC. ON 20 SQ. IN.
VEHICLE IMPACT ON SPANDREL	–	10,000 LBS. @ 1~6" ABOVE FLOOR (HORIZ.)
WIND ON ELEMENTS	–	SEE SPECIFICATION SECTION 07050
SEISMIC ON ELEMENTS	–	SEE SPECIFICATION SECTION 07050

SEE DWG. S-001 FOR ADDITIONAL LOAD CRITERIA

DESIGNED BY: J. HEDGES
CHECKED BY: P. OCAVA
DRAWN BY: J. MEJIA
COMPARED BY: N. MONTECILLO

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TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

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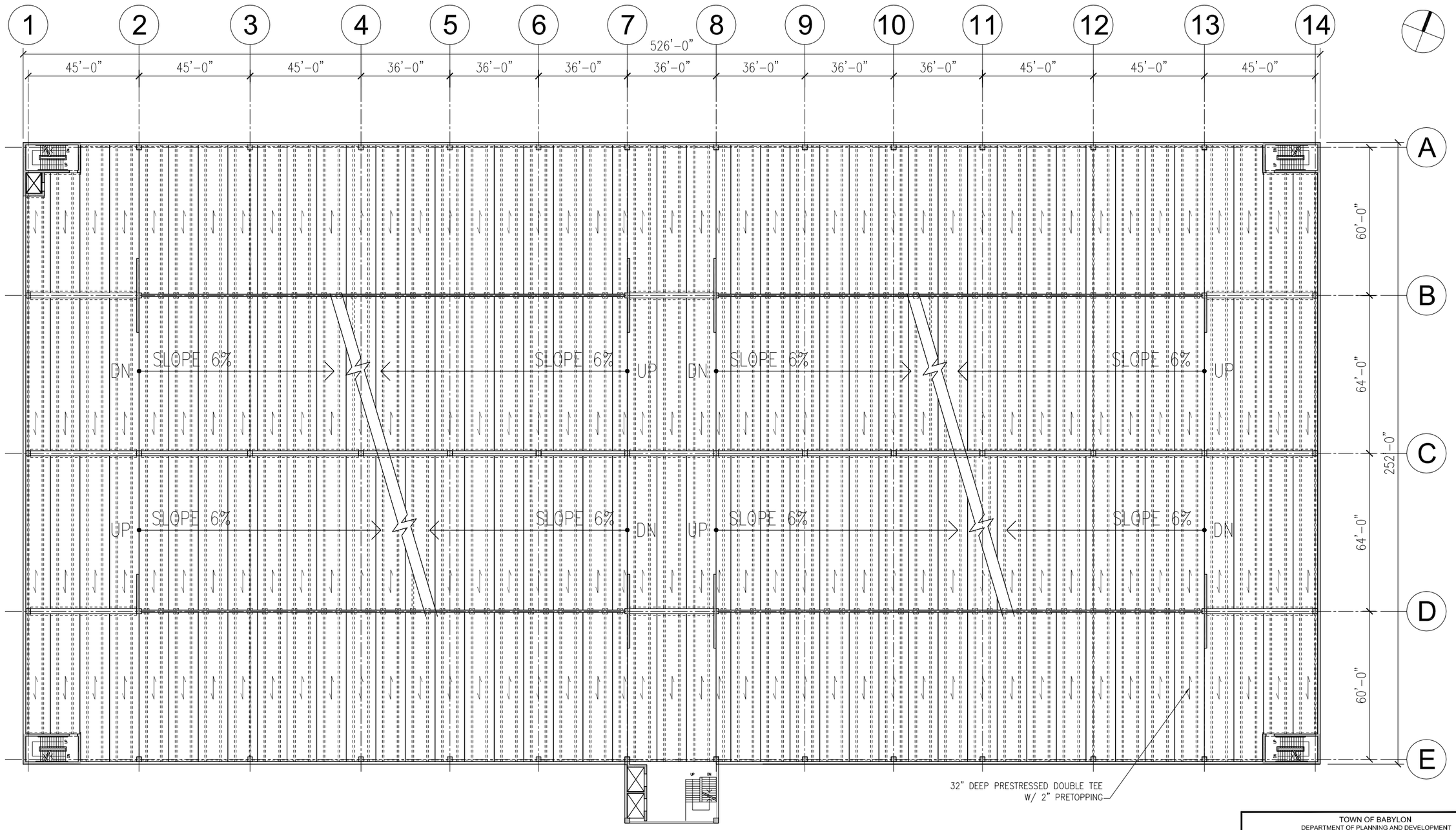
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WYANDANCH INTERMODAL TRANSIT FACILITY

SHEARWALL LOAD & DETAILS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	N.T.S.	S103	14 OF 18

November 13, 2008
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November 13, 2009
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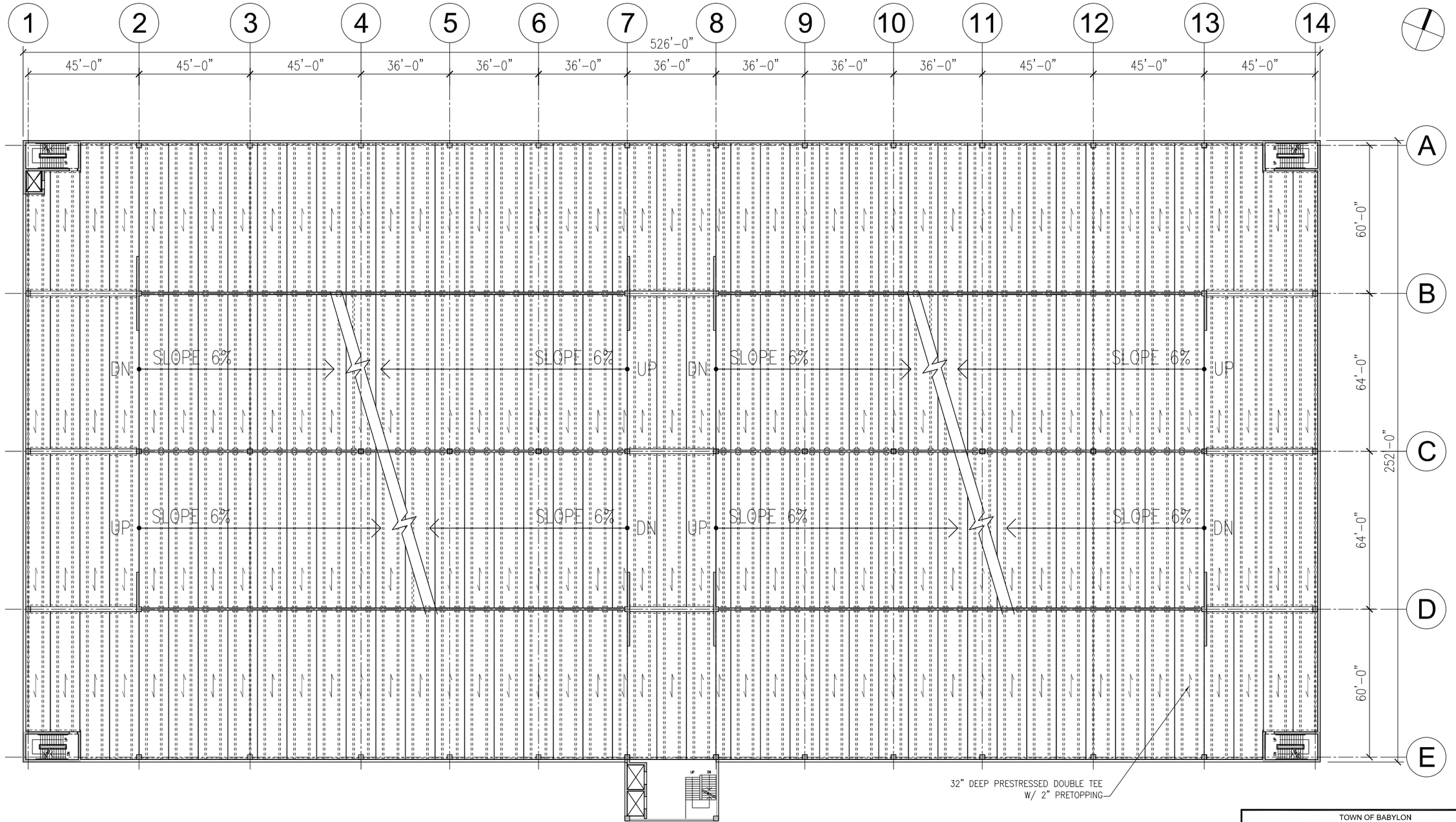
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WYANDANCH INTERMODAL TRANSIT FACILITY

SECOND FLOOR
FRAMING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1" = 20'-0"	S201	15 OF 18



November 13, 2009
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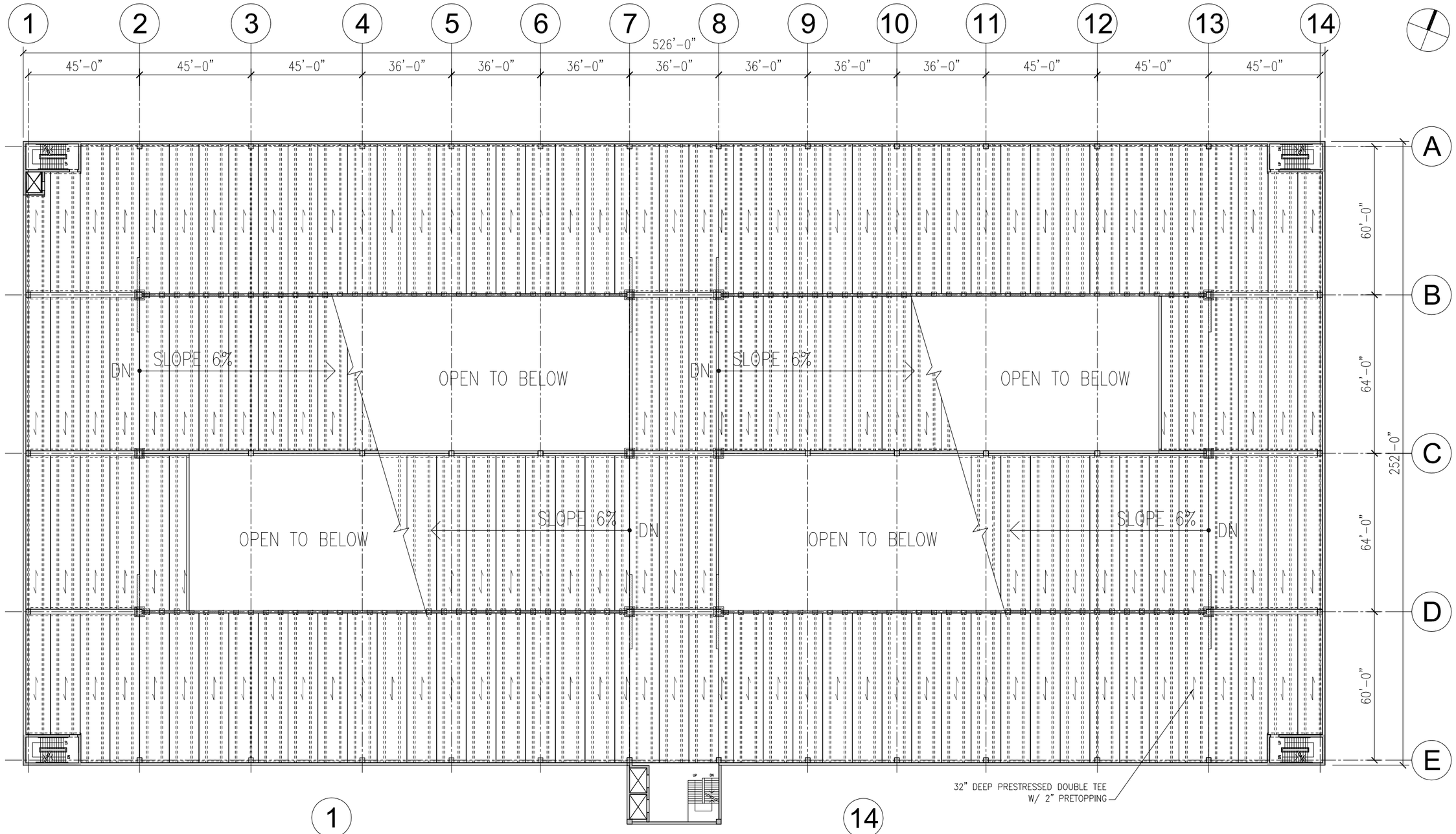
STEVE BELLONE - SUPERVISOR

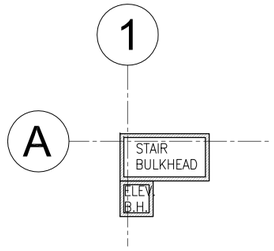
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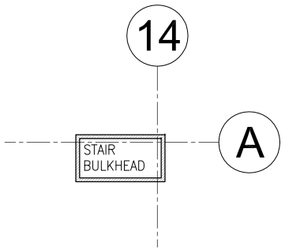
TYPICAL THIRD TO FIFTH
FLOOR FRAMING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1" = 20'-0"	S202	16 OF 18





STAIR & ELEVATOR BULKHEAD PLAN



STAIR BULKHEAD PLAN
BULKHEADS @ LINE E SIMILAR

DESIGNED BY: J. HEDGES
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COMPARED BY: N. MONTECILLO

November 13, 2009
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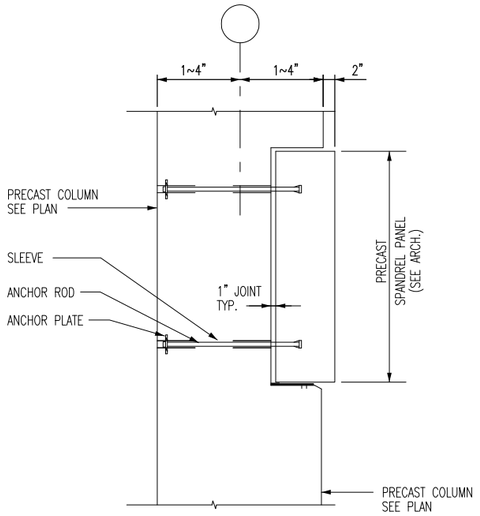
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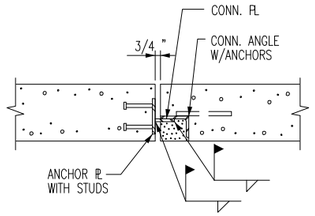
ROOF FRAMING & ROOF
BULKHEAD PLANS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1" = 20'-0"	S203	17 OF 18



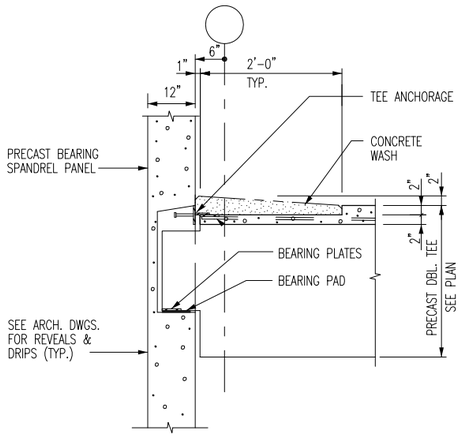
1 S-301 SPANDREL TO PRECAST COLUMN

SCALE : NTS



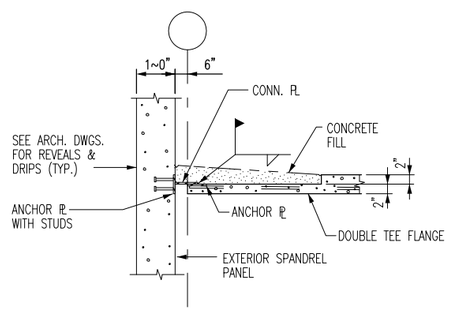
2 S-301 PRECAST PANEL TO PANEL DETAIL

SCALE : NTS



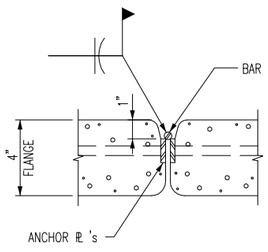
3 S-301 TYPICAL PRECAST DOUBLE TEE TO SPANDREL DETAIL (BEARING)

SCALE : NTS



4 S-301 TYPICAL PRECAST DOUBLE TEE TO SPANDREL DETAIL (NON-BEARING)

SCALE : NTS



5 S-301 TYPICAL PRECAST DOUBLE TEE TO DOUBLE TEE DETAIL

SCALE : NTS

PRECAST NOTES:

1. ALL STRUCTURAL PRECAST MEMBERS AND DETAILS SHALL BE AS SHOWN ON THE CONTRACT DRAWINGS.
2. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI AS SHOWN IN THE CONCRETE MATERIALS SCHEDULE. ALL CONCRETE SHALL HAVE AIR-ENTRAINING, WATER REDUCING, AND PLASTICIZING ADMIXTURES. IN ADDITION, PROVIDE CALCIUM NITRITE CORROSION INHIBITOR IN THE HORIZONTAL PRECAST CONCRETE FRAMING MEMBERS AND FIELD PLACED CONCRETE FILLS.
3. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
4. FOR PROPRIETARY ELEMENTS AND/OR ALTERNATES PROPOSED BY THE CONTRACTOR, ALL PRECAST ELEMENTS AND CONNECTIONS SHALL BE DESIGNED, FOR THE SPAN AND LOADING CONDITIONS SHOWN ON THE DRAWINGS, BY A QUALIFIED STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW YORK. ALL SUCH DESIGN CALCULATIONS AND DETAILS, INCLUDING THE DESIGN OF ALL STRUCTURAL ELEMENTS AND CONNECTIONS FOR BOTH WIND, SEISMIC AND GRAVITY LOADING CONDITIONS, SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO START OF FABRICATION.
5. DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL ELEMENTS, DETAILS AND CONNECTIONS, AND EMBEDDMENTS/SLEEVES/BOX-OUTS FOR WORK OF OTHER TRADES, SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL FOR REVIEW PRIOR TO THE START OF FABRICATION.
6. CONNECTIONS OF PRECAST TO PRECAST, OR PRECAST TO CAST-IN-PLACE CONCRETE WHICH ARE NOT SPECIFICALLY DETAILED, SHALL BE SIMILAR TYPES AS THE ONES SHOWN IN THE TYPICAL DETAILS, AND SHALL BE DESIGNED BY THE CONTRACTOR'S REGISTERED STRUCTURAL ENGINEER, AND CALCULATIONS AND DETAILS SUBMITTED FOR REVIEW.
7. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR SPECIAL ARCHITECTURAL SURFACE FINISH REQUIREMENTS, LOCATIONS OF ARCHITECTURAL FINISHES, FORMWORK, ETC.
8. THE CONTRACTOR SHALL COORDINATE PRECAST AND CAST-IN-PLACE WORK WITH THE CONTRACT DRAWINGS AND PROVIDE ALL NECESSARY INSERTS, REGLETS, ETC. REQUIRED.
9. THE PRECAST CONTRACTOR SHALL BE RESPONSIBLE FOR FULL COORDINATION OF ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DETAILS AS THEY AFFECT THE STRUCTURAL PRECAST SYSTEM.
10. THERE SHALL BE NO FIELD CUTTING OF PRECAST ELEMENTS WITHOUT THE PRIOR REVIEW AND APPROVAL OF THE DESIGN PROFESSIONAL.
11. ALL PRESTRESSING STEEL SHALL COMPLY WITH ASTM A416 AND HAVE A MINIMUM TENSILE STRENGTH OF 270 KSI.
12. REINFORCING BARS SHALL BE NEW BILLET STEEL COMPLYING WITH ASTM A615, GRADE 60.
13. REINFORCING STEEL BARS WELDED TO STEEL INSERTS AND STRUCTURAL SHAPES SHALL BE ASTM A615, GRADE 40 MINIMUM AND WELDING SHALL CONFORM TO AWS D12.1, LATEST EDITION.
14. ALL WELDED WIRE FABRIC SHALL BE GALVANIZED AND COMPLY WITH ASTM A185.
15. ALL DOWELS , SPLINES, ANCHORS, PLATES, INSERTS AND OTHER ACCESSORIES REQUIRED FOR ERECTION OF PRECAST SHALL BE STAINLESS STEEL, TYPE 302 OR 304.
16. ALL GROUT SHALL BE NON-SHRINK, NON-FERROUS TYPE WITH F'C = 5000 PSI.
17. ALL BEARING PADS SHALL BE ELASTOMERIC, AASHTO HIGHWAY GRADE, NEOPRENE PADS.
18. SEE CONCRETE NOTES AND SPECIFICATION SECTIONS 03410, "PRECAST PRESTRESSED CONCRETE", FOR ADDITIONAL REQUIREMENTS.

DESIGNED BY: J. HEDGES
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WYANDANCH INTERMODAL TRANSIT FACILITY

SECTIONS & DETAILS - 1

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	AS NOTED	S-301	18 OF 18

November 13, 2009
R:\AECOM\Projects\2009\60098860 Wyandanch Garage\001CADD\[Task Number]\Struct\Sheet\60098860_S301.dwg

MEP Drawings

GENERAL NOTES:

1. BEFORE SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF HIS PROPOSED WORK AND SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS AND LIMITATIONS THEREOF. VERIFICATION SHALL BE MADE AS TO THE ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATING WITH NEW AND EXISTING WORK AND PROVIDING CLEARANCES WITH STRUCTURAL MEMBERS. THE CONTRACTOR SHALL INCLUDE ALL COSTS OF ANY KIND WHATSOEVER WHICH ARE INCURRED THROUGH LIMITATIONS OF THE EXISTING AND NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT AND MATERIALS REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
2. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTING OF SAME. HOWEVER, IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
3. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
4. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT COULD BE MOVED THROUGH THE BUILDING.
5. COORDINATE THE EXACT SIZE AND LOCATION OF THE NEW OPENINGS WITH EXISTING STRUCTURE. PATCH AND INSULATE AS REQUIRED. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF NEW PIPING AND DUCTWORK THROUGH EXISTING FIRE/SMOKE BARRIERS. FIRE/SMOKE STOPPING SHALL BE 3M FIRE BARRIER CP 25 N/S CAULK UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL MAKE REPAIRS USING THE SAME MATERIALS, AT THE CONTRACTOR'S COST.
7. THE CONTRACTOR SHALL INCUR ALL COSTS AND BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT AND MATERIALS.
8. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
9. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
10. OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC.
11. PAINT AND TOUCH-UP ALL SURFACES MARED BY PERFORMANCE OF THE WORK.
12. SHOP DRAWINGS SHALL BE SUBMITTED TO AND REVIEWED BY ARCHITECT PRIOR TO ORDERING, PURCHASING OR FABRICATING ANY MECHANICAL EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: ALL EQUIPMENT SHOWN ON DRAWING SCHEDULES; PLUMBING FIXTURES AND TRIM; WATER HEATERS AND ACCESSORIES; PIPE, VALVES, AND FITTINGS; SANITARY AND WATER RISER DIAGRAMS; INSULATION.
13. ALL PLUMBING EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER CERTIFICATE OF OCCUPANCY.
14. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.

LEGEND

NG	GAS LINE
	WASTE LINE BELOW FLOOR
	WASTE LINE ABOVE FLOOR
	VENT
	COLD WATER
	HOT WATER
	HOT WATER RETURN
	WATER CLOSET
	LAVATORY
	MOP SINK
	URINAL
	WATER HAMMER ARRESTER
CO	CLEAN-OUT
DPCO	DECK PLATE CLEAN-OUT
	BALL VALVE
	BUTTERFLY VALVE
	MIXING VALVE
	ELBOW DOWN
	ELBOW UP
FD	FLOOR DRAIN
	POINT OF NEW CONNECTION
	CHECK VALVE
	PRESSURE REDUCING VALVE
X / Y	RISER (TYPE/NUMBER)
	GAS COCK
	PLUG VALVE
	PRESSURE REDUCING VALVE
HB	HOSE BIBB

PLUMBING ABBREVIATIONS

AD	AREA DRAIN	MS	MOP SINK
		N/A	NOT APPLICABLE
AFF	ABOVE FINISHED FLOOR	NO	NUMBER
APT	APARTMENT	NTS	NOT TO SCALE
BLDG	BUILDING	P	PUMP
℄	CENTERLINE	PD	PUMP DISCHARGE
CI	CAST IRON	PSI	POUNDS PER SQUARE INCH
CO	CLEANOUT	RD	ROOF DRAIN
CONT	CONTINUOUS, CONTINUE	RL	RAINLEADER
CU FT	CUBIC FEET	RM	ROOM
CV	CHECK VALVE	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
CW	COLD WATER	S	SINK
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	SAN	SANITARY
DF	DRINKING FOUNTAIN	SH	SHOWER
DI	DUCTILE IRON	SQ	SQUARE
DN	DOWN	ST	STORM DRAIN
DPCO	DECK PLATE CLEANOUT	SS	SERVICE SINK
DWG	DRAWING	TD	TRENCH OR TROUGH DRAIN
DWH	DOMESTIC WATER HEATER	THK	THICK(NESS)
(E)	EXISTING	TYP	TYPICAL
EL	ELEVATION	UR	URINAL
FAI	FRESH AIR INTAKE	V	VENT
FD	FLOOR DRAIN	VIF	VERIFY IN FIELD
FFD	FLOOR FUNNEL DRAIN	VTR	VENT THROUGH ROOF
FT	FOOT; FEET	W	WASTE
G	GAS	W/	WITH
GPM	GALLONS PER MINUTE	WC	WATER CLOSET
HB	HOSE BIBB	WH	WALL HYDRANT
HWH	HOT WATER HEATER	WM	WASHING MACHINE
IN	INCH	@	AT
INV	INVERT		
IPS	IRON PIPE SIZE		
JC	JANITOR CLOSET		
KS	KITCHEN SINK		
L	LAVATORY		
MAX	MAXIMUM		
MIN	MINIMUM		

FIXTURE ROUGH-IN SCHEDULE

FIXTURE TAG	PLAN SYMBOL	RISER DIAGRAM SYMBOL	FIXTURE TYPE	TRIM TAG	TRIM	CONNECTION SIZE			ROUGH-IN SIZE			
						HOT WATER	COLD WATER	WASTE	HOT WATER	COLD WATER	WASTE	VENT
						INCHES	INCHES	INCHES	INCHES	INCHES	INCHES	INCHES
WC-1			PUBLIC WATER CLOSET BACK OUTLET	-	FLUSH VALVE	N/A	1	4	N/A	1	4	2
WC-2			STERLING WINDHAM MODEL 402215	-	TANK	N/A	1	4	N/A	1	4	2
U-1			PUBLIC URINAL	-	FLUSH VALVE	N/A	3/4	2	N/A	1	2	2
L-1			PUBLIC LAVATORY WALL MOUNT	-	SELF METERING	3/8	3/8	1-1/4	3/8	3/8	1-1/4	1-1/2
EWC-1			ELECTRIC WATER COOLER/DRINKING FOUNTAIN, WALL HUNG	-	-	N/A	3/8	1-1/4	N/A	1-1/4	2	1-1/2

GAS HOT WATER HEATER SCHEDULE

SYSTEM NO.	LOCATION	QUANTITY	SERVICE	INPUT (BTUH)	RECOVERY (gph)	RECOVERY TEMP. RISE (°f)	STORAGE CAPACITY (gal)	ELECTRICAL V/ø/Hz	MANUFACTURER & MODEL NO.

ELECTRIC TANK WATER HEATER SCHEDULE

TAG NO.	SERVICE	LOCATION	TANK CAP (GAL)	RECOVERY (GPH) @80° RISE	KW INPUT UPPER/LOWER	ELEMENT OPERATION	ELECTRIC DATA	MANUFACTURER & MODEL

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

September 18, 2009
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SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

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TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

GENERAL NOTES AND LEGEND

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	P-001	OF

AIR HANDLING UNIT SCHEDULE

SYSTEM NO.	LOCATION	SERVICE	NOMINAL TONS	TOTAL COOLING CAP.	SENS. COOLING CAP.	AIR FLOW	MIN. FRESH AIR	EXT. SP	DX COIL CONDITIONS					HEATING COIL	ELECTRICAL DATA				FILTER DATA				WEIGHT (LB)	MANUFACTURER: MODEL NO.
									EAT		LAT		REFRIG.	HEATING BTUH AT 140 WTR TEMP	FAN HP	VOLTS PHASE HZ.	MCA	MFS	TYPE	EFF MERV NO.	QTY.	SIZE		
									DB	WB	DB	WB												
				MBH	MBH	CFM	CFM	IN WG	°F	°F	°F	°F												

NOTES:

1. PROVIDE DUAL ECONOMIZER (ENTHALPY) CONTROL ON LENNOX AIR HANDLERS SERVING CORRIDORS.
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE HONEYWELL T7300 PROGRAMMABLE THERMOSTATS FOR ALL APARTMENT FAN COIL UNITS, CORRIDOR UNITS AND AMENITIES AIR HANDLING UNITS.

FAN SCHEDULE

FAN NO.	LOCATION	SERVICE	FAN DATA			ELECTRICAL DATA					WEIGHT LBS.	MANUFACTURER & MODEL NO.	REMARKS
			VOLUME FLOW	EXT. SP	DRIVE TYPE	FAN RPM	BHP	HP	WATTS	VOLTS/Ph/Hz			
			CFM	IN.WG									

NOTES:

1. PROVIDE NEMA 1 DISCONNECT.
2. PROVIDE WALL SLEEVE WITH REAR GUARD.

ELECTRIC HEATER SCHEDULE

TAG NO.	LOCATION	TYPE	CAPACITY		ELECTRICAL DATA				MANUF.	MODEL NO.	WEIGHT	REMARKS
			CFM	BTU/HR	KW	AMPS	MOTOR HP	VOLTS/PHASE			LBS	
ECH-UG-1	BASEMENT STAIRWELL	WALL MOUNTED	250	20,460	6.0			208/1/60	INDEECO	922U06000C	115	NOTES: 2,7,8&9
ECH-UG-2	WATER ROOM	FLOOR MOUNTED CABINET HEATER	250	20,460	6.0			208/1/60	INDEECO	922U06000C	115	NOTES: 2,6,7,8&9
EDH-LG-1	STORAGE ROOM	OPEN COIL, SLIP-IN DUCT HEATER	550	41,600	12.0			208/1/60	INDEECO	QUA 12x8 CONTROL OPTION "G"		NOTES: 1,2 & 11
ECH-C-1	CLUB ROOM VESTIBULES	SEMI RECESSED-CEILING MOUNTED	250	20,460	6.0			208/1/60	INDEECO	922U06000C	115	NOTES: 2,3,7,8&9
ECH-1	1ST & 3RD FL. STAIRWELLS	WALL MOUNTED	250	13,460	4.0			208/1/60	INDEECO	922U04000C	115	NOTES: 2,7,8&9

NOTES:

1. WALL THERMOSTAT. WITH LOCKING ENCLOSURE
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE RECESSED TRIM FRAME.
4. PROVIDE WALL MOUNT BRACKET W/ 1/4" THRD ROD.
5. MAXIMUM MOUNTING HEIGHT: 9'-0".
6. POWERED OPERATED FRESH AIR INLET.
7. HI / LO AND ON/AUTO FAN SWITCH.
8. BUILT-IN THERMOSTAT,
9. AIR FILTERS.
10. TAMPERPROOF BUILT-IN THERMOSTAT.
11. HEATER ON & LOW AIRFLOW PILOT LIGHTS.

(DUCTLESS SYSTEM) AIR COOLED CONDENSING UNIT SCHEDULE

SYSTEM NO.	LOCATION/SERVICE	MEANS OF SUPPORT	AMBIENT AIR TEMP.	No. OF COMP.	ELECTRICAL DATA			WEIGHT (LB)	EER @ ARI	MANUFACTURER: MODEL NO.
					MCA	MFS	VOLTS/Ph/Hz			
			°F							
CUG-1	GARAGE LEVEL EMR GARAGE LEVEL ELECTRICAL GARAGE LEVEL MAINTENANCE	CEILING HUNG	80	1	8.3	15.0	208/1/60	80	13.0	RXS12DVJU

NOTES:

1. REFER TO DETAILS FOR IN-LINE PIPING COMPONENTS
2. UNIT TO BE MOUNTED TO SIDE WALL OF DESIGNATED SERVICE ROOM. PROVIDE KNEE BRACE ASSEMBLY FOR SIDE-WALL MOUNTING.
3. PROVIDE LOW AMBIENT DOWN TO 20 DEGREES.
4. PROVIDE CONDENSER FIN GUARDS.
5. PROVIDE DISCONNECT SWITCH.
6. PROVIDE DAIKIN "REFNET" REFRIGERANT BRANCH PIPING JOINTS TO FACILITATE INTERCONNECTION OF ALL COOLING UNITS WITH CONDENSING UNIT.

AIR COOLED CONDENSING UNIT SCHEDULE

SYSTEM NO.	LOCATION	SERVICE	AMBIENT AIR TEMP.	No. OF COMP.	ELECTRICAL DATA			WEIGHT (LB)	REFRIG	SEER @ ARI	MANUFACTURER: MODEL NO.	NOTES
					MCA	MFS	VOLTS/Ph/Hz					
			°F									

NOTES:

1. REFER TO DETAILS FOR IN-LINE PIPING COMPONENTS
2. UNIT TO BE MOUNTED ON PREFABRICATED STEEL EQUIPMENT SUPPORTS.
3. PROVIDE LOW AMBIENT DOWN TO 0 DEGREES.
4. PROVIDE CONDENSER FIN GUARDS.
5. PROVIDE DISCONNECT SWITCH.
6. PROVIDE ARCHITECTURAL WALL LOUVER # G200A(S), AND WALL SLEEVE # 928-3 WITH APARTMENT CONDENSING UNIT.
7. REFER TO AQUATHERM SYSTEM DIAGRAM FOR PIPING HOOK-UP.

DUCTLESS SPLIT HEAT PUMP SCHEDULE - EVAPORATOR SECTION

SYSTEM NO.	LOCATION	SERVICE	EVAPORATOR SECTION DATA									ELECTRICAL				MANUFACTURER & MODEL NO.
			TOTAL CAP.	SENS. CAP.	FAN		AIR SIDE				HEATING	RUNNING CURRENT AMPS	VOLTS/PH/Hz	WT LBS		
					VOL. FLOW	EXT. SP	EAT		LAT							
							DB	WB	DB	WB						
			MBH	MBH	CFM	IN WG	°F	°F	°F	°F	MBH					
HP-LG-1	CEILING	GARAGE LVL ELEV MACH RM GARAGE LVL ELECT. ROOM GARAGE LVL MAINT ROOM	11.5		305	.12	78	62	55	54	11.5	.52	208V-1-60	50	DAIKIN FDXS12DVJU	
HP-1-1	1ST FLOOR VARIOUS	SERVICE AREAS	11.5		305	.12	78	62	55	54	11.5	.52	208V-1-60	50	DAIKIN FDXS12DVJU	

NOTES:

1. PROVIDE BUILT-IN CONDENSATE PUMP.
2. PROVIDE WALL MOUNTED WIRED DAIKIN CONTROL PANEL.
3. PROVIDE INTERLOCK WITH CUG-1
4. PROVIDE FRESH AIR INTAKE KIT.

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

September 15, 2009
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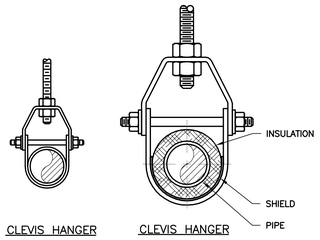
STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SCHEDULES

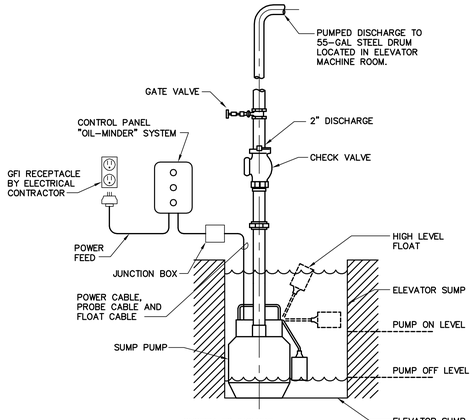
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	P-002	OF



CLEVIS HANGER CLEVIS HANGER

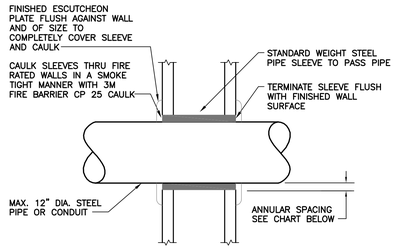
NOTE:
SIZE HANGER TO ADEQUATELY SUPPORT LOAD.

PIPE SUPPORT DETAIL
(LOWER ATTACHMENT DEVICES)
SCALE: NONE



SYSTEM TO INCLUDE:
1. OIL-MINDER CONTROL SYSTEM
2. AUDIBLE AND VISUAL ALARM
3. JUNCTION BOX WITH MULTI-PIN CONNECTOR

ELEVATOR SUMP PUMP DETAIL
SCALE: NONE

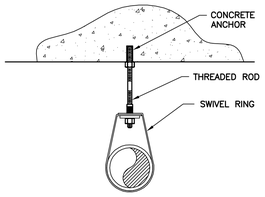


NOTES:
1. INSTALL THE FIRE STOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. ANNULAR SPACE REQUIREMENTS:

MAXIMUM PIPE OR CONDUIT DIAMETER	ANNULAR SPACE
1 IN.	0 TO 3/16 IN.
4 IN.	0 TO 1/4 IN.
12 IN.	3/16 TO 5/16 IN.

3. 3M FIRE BARRIER CP 25 CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE WITH A MINIMUM 1/4-IN. DIAMETER BEAD OF CP 25 CAULK APPLIED TO THE PERIMETER OF THE PIPE/CONDUIT AT ITS EGRESS FROM THE WALL.
4. UL THROUGH-PENETRATION FIRE STOP SYSTEM No. 147, CONFIGURATION A.

PIPE FIRESTOPPING DETAIL
SCALE: NONE



HANGER ROD SIZE	
UP TO & INCLUDING 4"	3/8" ROD
5", 6" & 8"	1/2" ROD

PIPE HANGING DETAIL
SCALE: NONE

DESIGNED BY: _____
CHECKED BY: PAB
DRAWN BY: EAO
COMPARED BY: _____

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DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

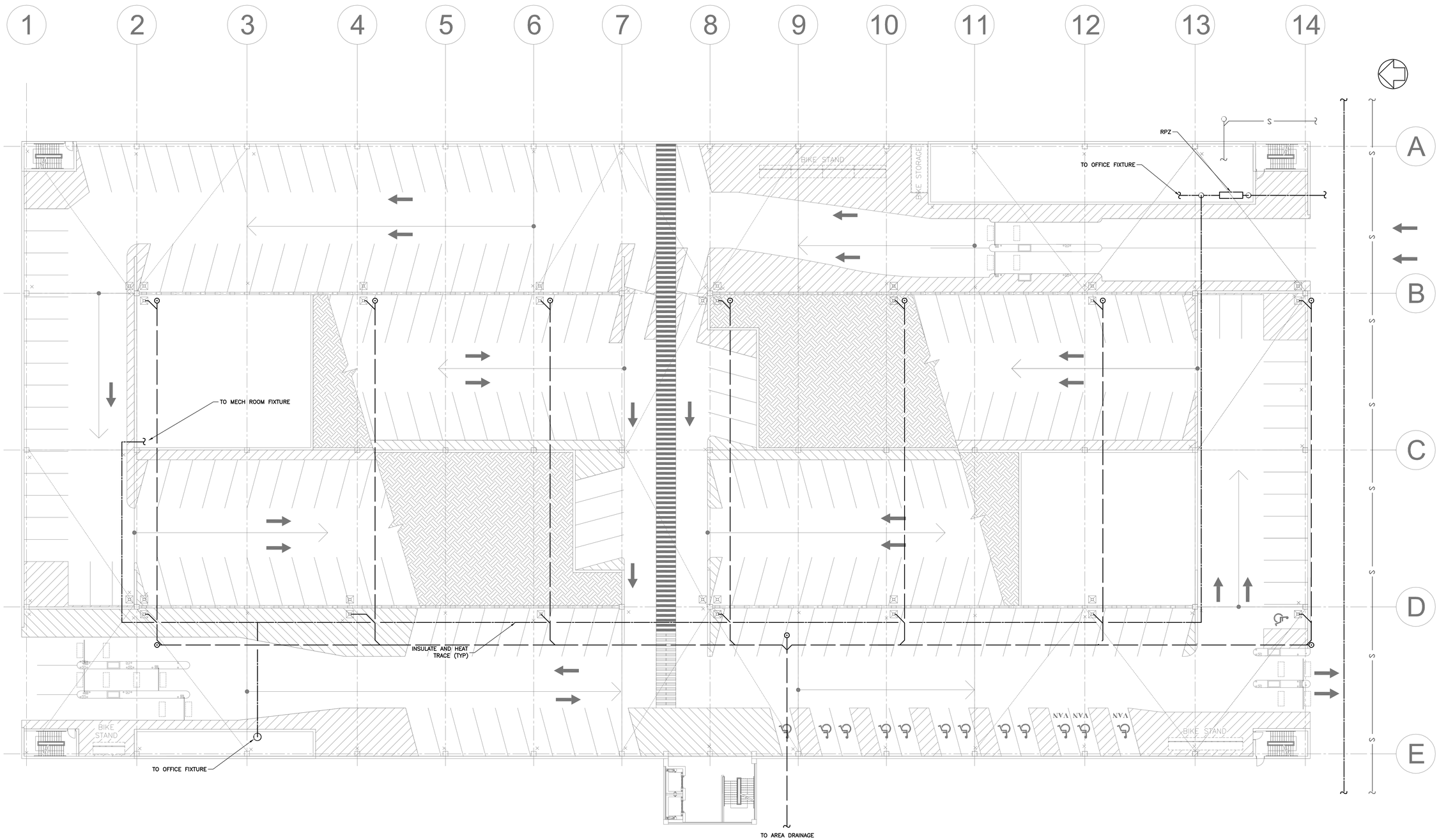
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

DETAILS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	P-003	OF

September 18, 2009
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1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

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DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

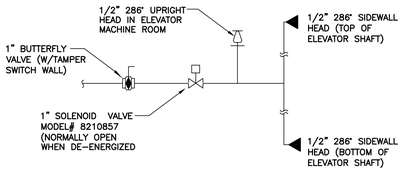
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIRST FLOOR PLUMBING PLAN

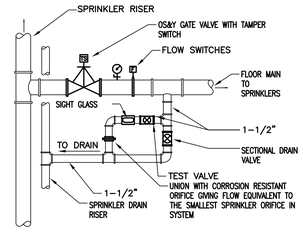
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	P-101	OF

September 18, 2009
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ELEVATOR SPRINKLER DETAIL

SCALE: NONE



FLOOR CONTROL VALVE AND TEST ASSEMBLY DETAIL

SCALE: NONE

FIRE PROTECTION GENERAL NOTES

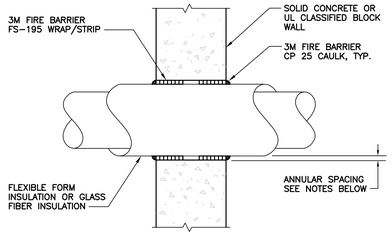
1. DRAWING SPECIFICATION IS PART OF THIS CONTRACT.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT POSITIONING OF CEILING DIFFUSERS, RETURN REGISTERS AND LIGHT FIXTURES
3. COORDINATE PIPING RUNS AND SPRINKLER HEAD PLACEMENT WITH HVAC CONTRACTOR, AND ELECTRICAL CONTRACTOR.
4. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING AND EQUIPMENT AND INDICATE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTES OF PIPING. HOWEVER, IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
5. THE CONTRACTOR SHALL VISIT THE PREMISES OF HIS PROPOSED WORK AND SHALL CAREFULLY EXAMINE THE EXISTING CONDITIONS AND LIMITATIONS THEREOF. VERIFICATION SHALL BE MADE AS TO THE ACTUAL LOCATIONS WHERE NEW PIPE RUNS WILL TIE INTO EXISTING WORK AND CLEARANCES WITH STRUCTURAL MEMBERS. THE CONTRACTOR SHALL INCLUDE ALL COSTS OF ANY KIND WHATSOEVER WHICH ARE INCURRED THROUGH LIMITATIONS OF THE EXISTING CONDITIONS.
6. THE CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS OF NEW FIRE PROTECTION PIPING THROUGH EXISTING FIRE/SMOKE BARRIERS ABOVE THE HUNG CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. FIRE/SMOKE STOPPING SHALL BE 3M FIRE BARRIER CP 25 N/S CAULK.
7. SPRINKLER CONTRACTOR SHALL REVIEW SHEETMETAL SHOP DRAWINGS. COORDINATE THE ROUTING OF HIS PIPING AND SIGN THE COORDINATED SHEETMETAL SHOP DRAWINGS.
8. ALL SPRINKLER PIPING TO SINGLE SPRINKLER HEADS SHALL BE 1" MINIMUM DIAMETER.
9. ALL SPRINKLER HEADS IN ACOUSTIC TILE CEILING ARE TO BE CENTERED ON TILE IN BOTH DIRECTIONS.
10. UPRIGHT SPRINKLER HEADS IN ROOMS WITH NO CEILINGS ONLY.
11. PIPE SIZE SHOWN ARE FOR BIDDING PURPOSES ONLY. EXACT SIZES SHALL BE BASED ON HYDRAULIC CALCULATIONS – REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. EXISTING SPRINKLER RISER IS A BASE BUILDING SYSTEM AND RISER DIAGRAM INFORMATION IS BASED UPON INFORMATION PROVIDED BY BUILDING OWNER REPRESENTATIVE(S).

LEGEND

- DRY PENDANT
- DRY UPRIGHT
- CONNCEALED PENDANT SPRINKLER HEAD (WET)
- UPRIGHT PENDANT SPRINKLER HEAD (WET)
- SIDE WALL SPRINKLER HEAD (WET)
- WINDOW SPRINKLER HEAD (WET)
- SIAMESE FIRE DEPARTMENT CONNECTION
- SIAMESE FIRE DEPARTMENT CONNECTION
- NEW SPRINKLER PIPE
- —D— NEW DRAIN PIPE
- —DP— DRY PIPE
- SPRINKLER BRANCH
- CHECK VALVE
- ALARM CHECK VALVE
- OS&Y GATE VALVE
- HOSE VALVE
- BALL DRIP
- TS TAMPER SWITCH
- FS FLOW SWITCH
- LIMIT OF CONTRACT WORK
- POINT OF NEW CONNECTION

ABBREVIATIONS

ABD	AUTO BALL DRAIN
@	AT
℄	CENTERLINE
AFF	ABOVE FINISHED FLOOR
BLDG	BUILDING
CONT	CONTINUOUS, CONTINUE
DDC	DOUBLE DETECTOR CHECK
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH
EL	ELEVATION
FT	FOOT; FEET
FP	FIRE STAND PIPE
IN	INCH
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
MIN	MINIMUM
N	NEW
N/A	NOT APPLICABLE
PSI	POUNDS PER SQUARE INCH
RM	ROOM
RPZ	REDUCED PRESSURE ZONE
TYP	TYPICAL

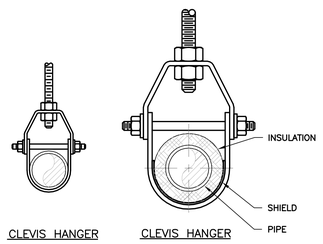


NOTES:

1. INSTALL THE FIRESTOP SYMMETRICALLY ON BOTH SIDES OF THE WALL ASSEMBLY.
2. UL THROUGH-PENETRATION FIRESTOP SYSTEM No. 395.
3. MINIMUM ANNULAR SPACE BETWEEN THE SIDE OF THE THROUGH OPENING AND THE PENETRATING ITEMS IS 1/4". SPACING BETWEEN PENETRATING ITEMS SHALL BE A MINIMUM 1/2".
4. TIGHTLY WRAP A LAYER OF 3M FIRE BARRIER FS-195 WRAP/STRIP AROUND THE INSULATED TUBING/PIPE, FOIL SIDE OUT. SECURE THE FS-195 WRAP/STRIP WITH 18-GAUGE STEEL TIE WIRE. SLIDE THE FS-195 WRAP/STRIP INTO THE OPENING SUCH THAT THE TOP EDGE IS FLUSH WITH THE SURFACE OF THE WALL.
5. RECESS A MINIMUM 1 IN. THICKNESS OF TIGHTLY PACKED MINERAL WOOL SAFING AROUND THE PENETRATING ITEMS AND APPLIED FS-195 WRAP/STRIP.
6. FILL ANNULAR SPACE AROUND THE TUBING WITH A MINIMUM 1-IN. DEPTH OF 3M FIRE BARRIER CP 25 CAULK.

FIRESTOPPING FOR FIRE-RATED BLOCK WALL

SCALE: NONE



CLEVIS HANGER CLEVIS HANGER

NOTE:
SIZE HANGER TO ADEQUATELY SUPPORT LOAD.

PIPE SUPPORT DETAIL

(LOWER ATTACHMENT DEVICES)
SCALE: NONE

DESIGNED BY: _____
CHECKED BY: PAB
DRAWN BY: EAO
COMPARED BY: _____

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DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

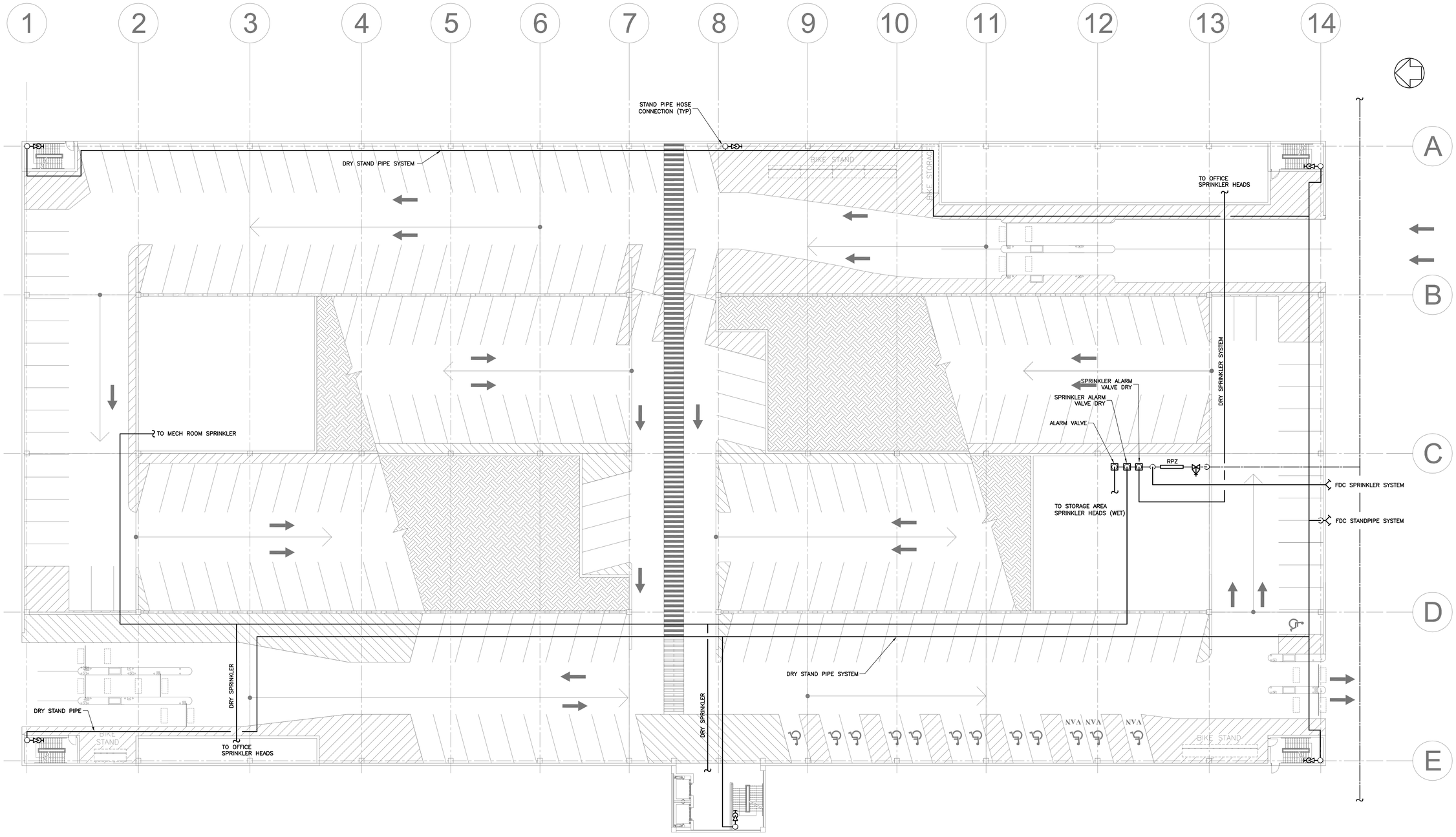
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

GENERAL NOTES AND LEGEND

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-001	OF

September 18, 2009
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1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

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DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

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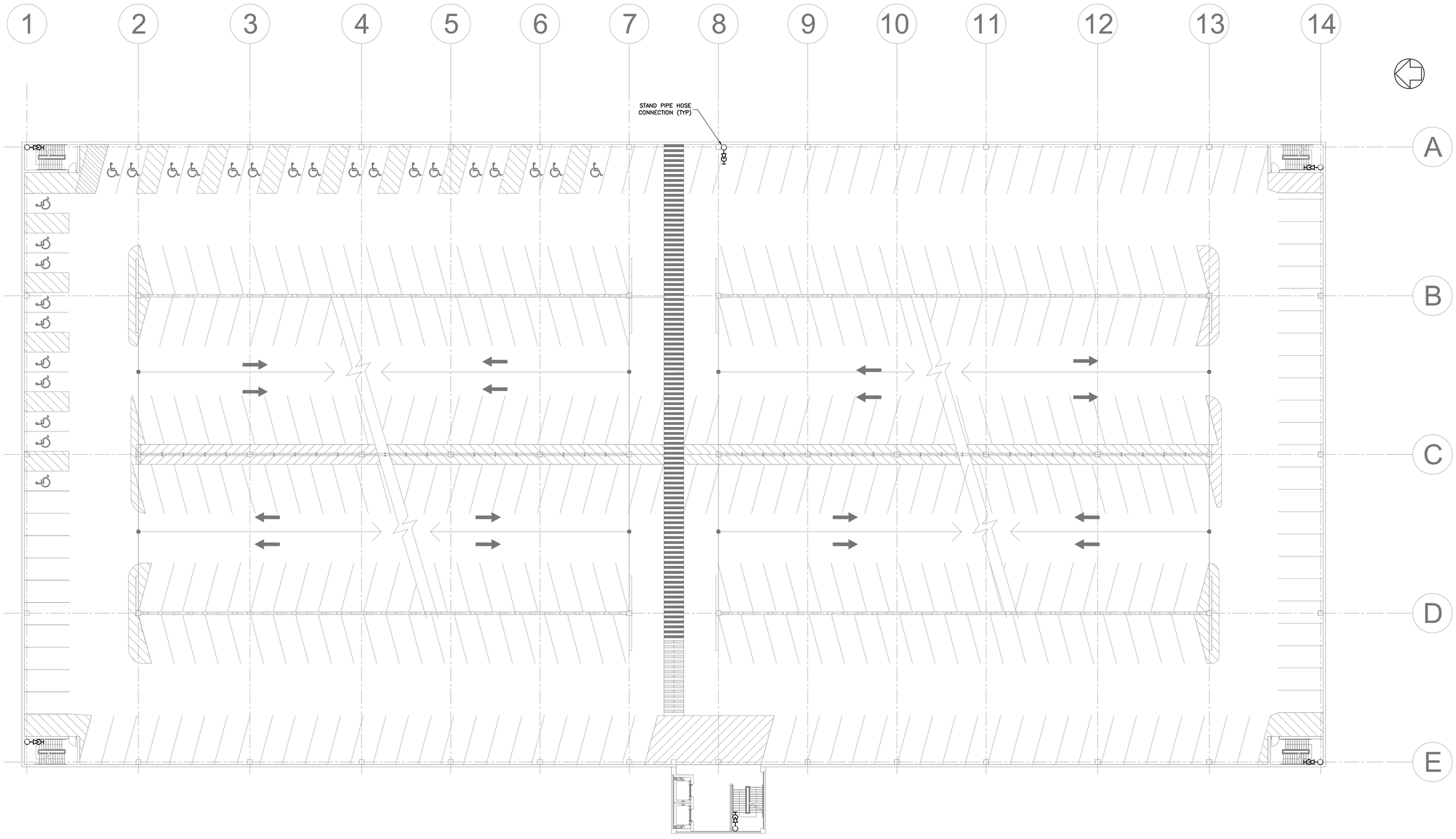
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIRST FLOOR FIRE PROTECTION PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-101	OF

September 18, 2009
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1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

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DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

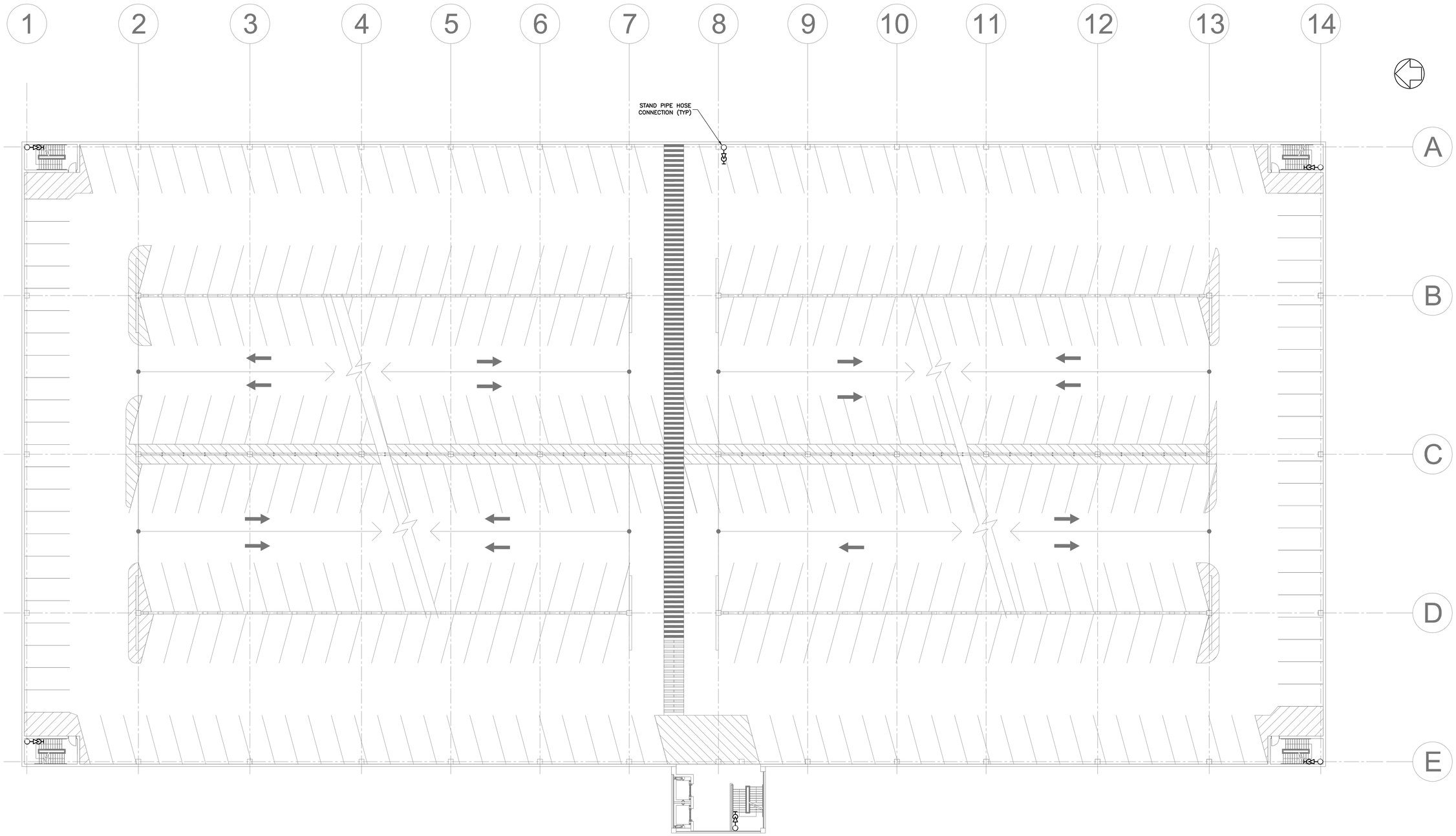
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SECOND FLOOR FIRE PROTECTION PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-102	OF

September 18, 2009
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1/16"=1'-0" 16 8 0 16

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

THIRD FLOOR FIRE
PROTECTION PLAN

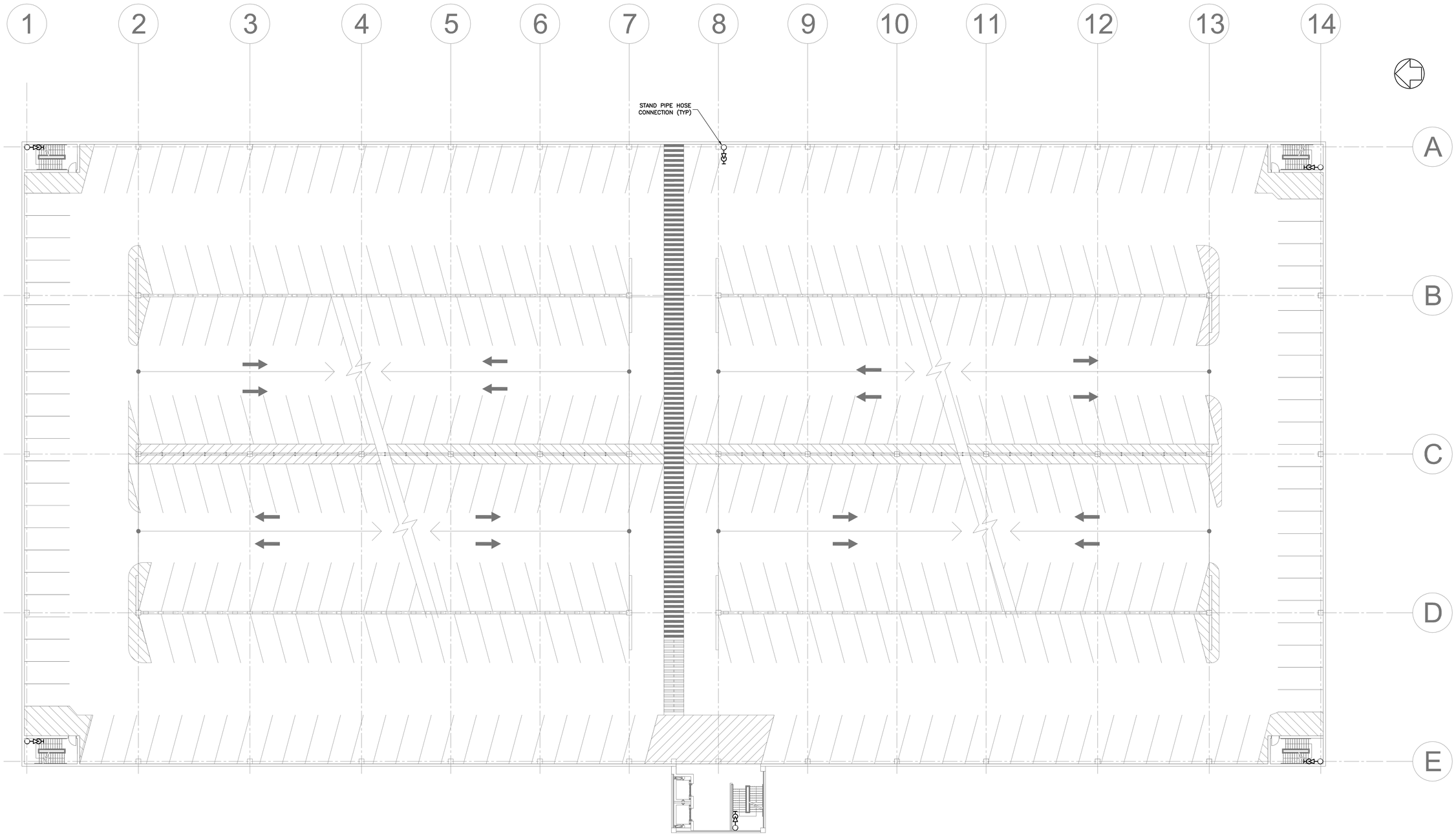
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-103	OF

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September 18, 2009
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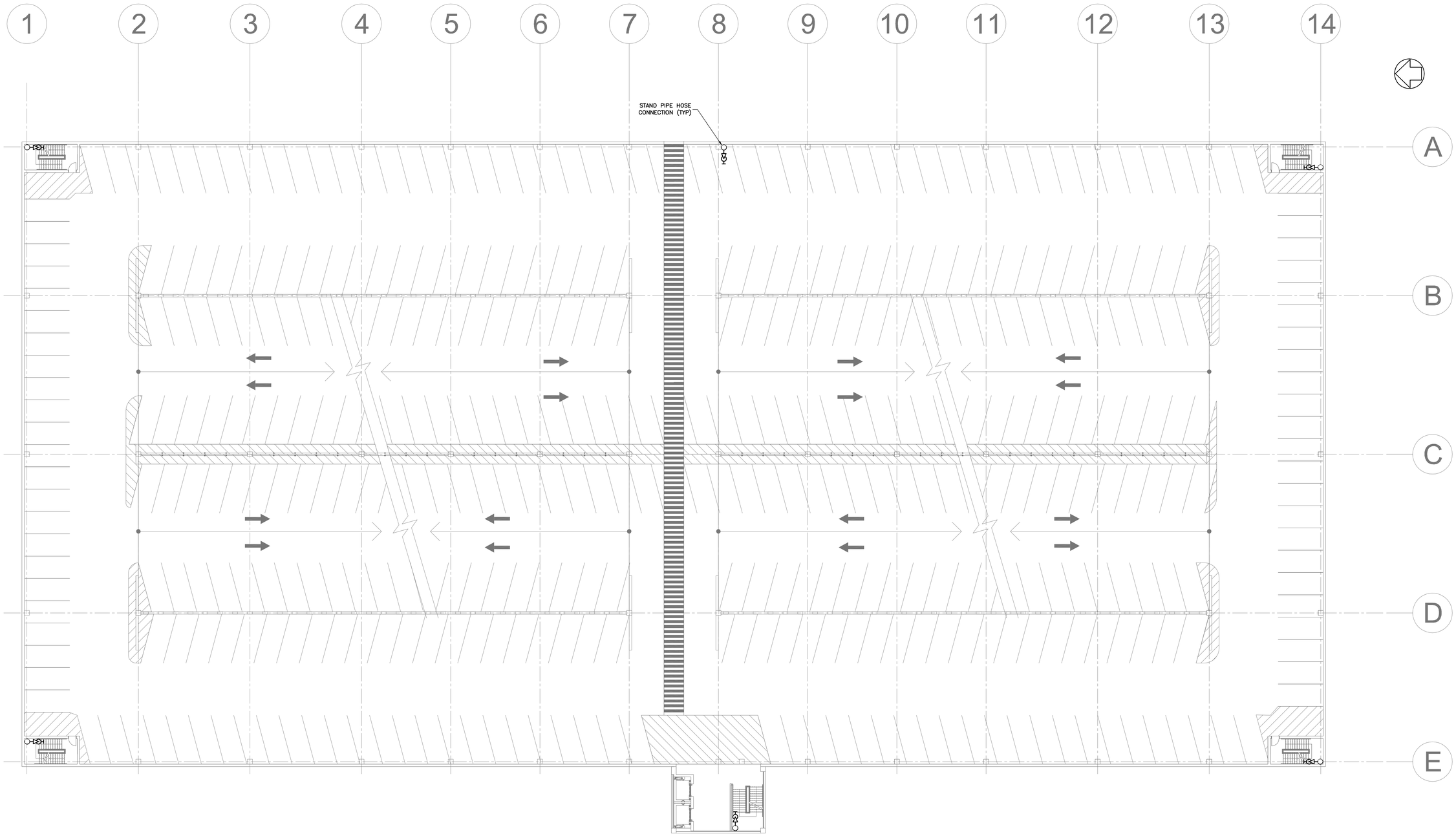
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FOURTH FLOOR FIRE PROTECTION PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-104	OF

September 18, 2009
O:\CE1745A\FIRE\FP-104 FOURTH FLOOR FIRE PROTECTION PLAN.dwg



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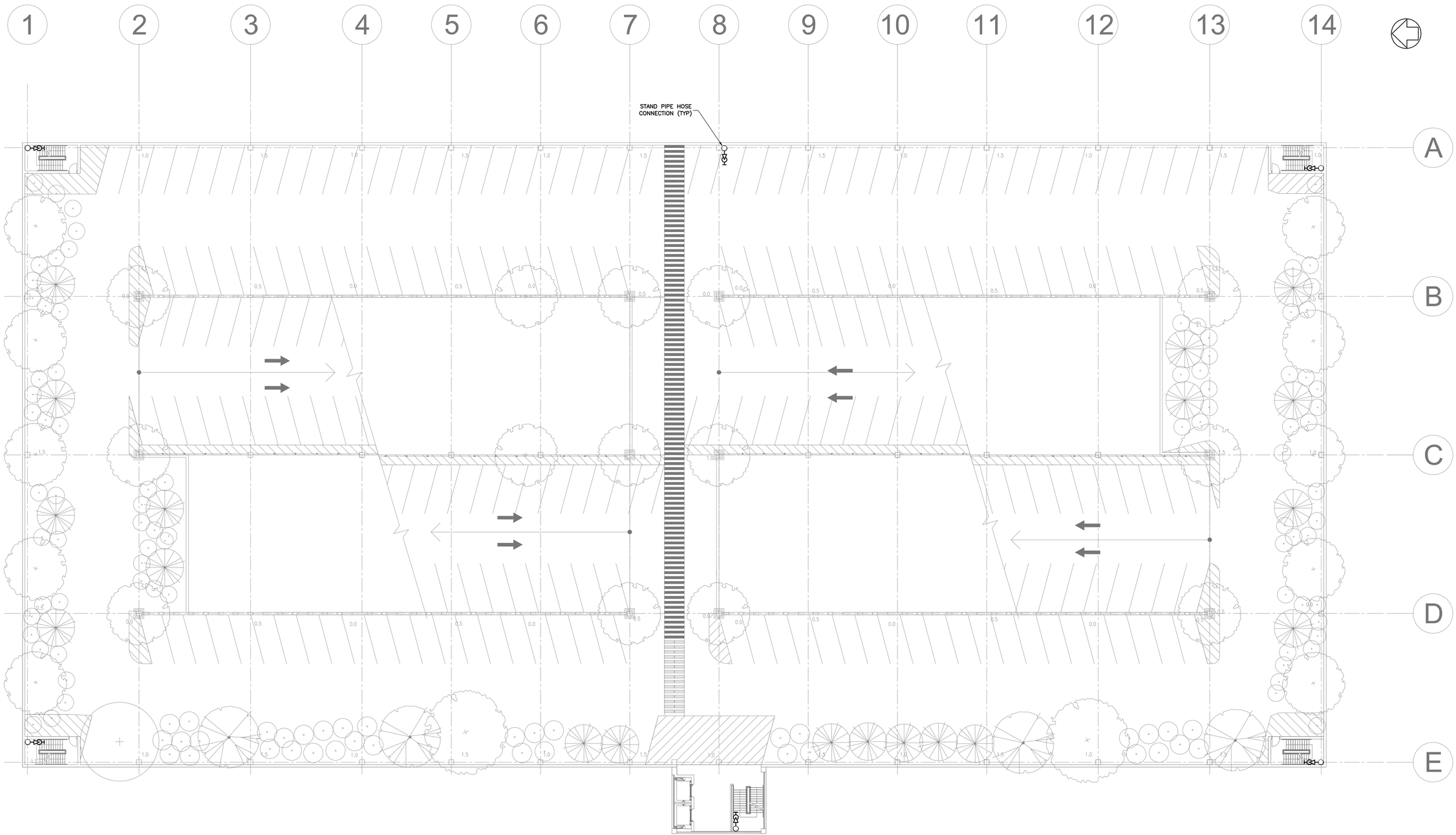
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIFTH FLOOR FIRE PROTECTION PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-105	OF

September 18, 2009
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STEVE BELLONE - SUPERVISOR

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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ROOF FIRE PROTECTION PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	FP-106	OF

GENERAL NOTES:

1. BOOK SPECIFICATIONS ARE PART OF THIS CONTRACT.
2. ALL WORK SHOWN ON THESE PLANS SHALL BE PROVIDED UNDER THIS CONTRACT UNLESS SPECIFICALLY CALLED OUT OTHERWISE.
3. THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING, DUCTWORK AND EQUIPMENT AND INDICATE THE REQUIRED SIZE AND POINTS OF TERMINATION OF THE PIPING AND SUGGEST PROPER ROUTING OF SAME. HOWEVER, IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
4. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
5. INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT COULD BE MOVED THROUGH THE BUILDING.
6. THE CONTRACTOR SHALL TAKE PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, GAS PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST, WITHIN COST, WITHIN THIS CONTRACT PERIOD FOR SUBSTANTIAL COMPLETION.
7. THE CONTRACTOR SHALL REPAIR AND RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, AND DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL MAKE REPAIRS USING THE SAME MATERIALS, AT THE CONTRACTOR'S COST.
9. THE CONTRACTOR SHALL INCUR ALL COSTS AND BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT AND MATERIALS.
10. DAILY, DURING DEMOLITION AND DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS. ALL AREAS AND EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE CLEAN OF DUST AND DEBRIS BEFORE FINAL ACCEPTANCE BY THE OWNER.
11. PROVIDE FOR LEGAL REMOVAL AND DISPOSAL OF ALL RUBBISH AND DEBRIS FROM THE BUILDING AND SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
12. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
13. OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC.
14. PAINT AND TOUCH-UP ALL SURFACES MARRED BY PERFORMANCE OF THE WORK.

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSER
AD	ACCESS DOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
AS	AIR SEPARATOR
AV	AIR VENT
BCU	BLOWER COIL UNIT
BHP	BRAKE HORSEPOWER
BOT.	BOTTOM
BP	BOILER PUMP
BTUH	BTU/HR
CAP.	CAPACITY
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CO	CLEAN OUT DOOR
COMPS.	COMPRESSOR
CONDS.	CONDENSING
CU	CONDENSING UNIT
DAC	DUCTLESS AIR-CONDITIONER
DB	DRY BULB
DISCH.	DISCHARGE
DN.	DOWN
DX	DIRECT EXPANSION
EA.	EACH
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ENERGY EFFICIENCY RATIO
EFF.	EFFICIENCY
EMR	ELEVATOR MACHINE ROOM
EP	ELECTRIC PANEL
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EXP.	EXPANSION
EXT.	EXTERNAL
°F	DEGREES FAHRENHEIT
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD/AD	FIRE DAMPER/ACCESS DOOR
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT.	FEET
FSD	COMBINATION FIRE SMOKE DAMPER
FSD/AD	COMBINATION FIRE SMOKE DAMPER/ ACCESS DOOR
FT.W.G.	FEET WATER GAUGE
GAL.	GALLON
G.C.	GENERAL CONTRACTOR
GDF	GAS FIRED DUCT FURNACE
GPM	GALLONS PER MINUTE
GX	GENERAL EXHAUST FAN
H	HEIGHT
HC	HEATING COIL
HP	HORSEPOWER
HRU	HEAT RECOVERY UNIT
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HZ	HERTZ
IN.	INCHES
IN.W.G.	INCHES WATER GAUGE
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LF	LINEAR FEET
LWCO	LOW WATER CUT-OFF
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MBH	THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MER	MECHANICAL EQUIPMENT ROOM
MEZZ.	MEZZANINE
MIN.	MINIMUM
MNT'D	MOUNTED
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
No.	NUMBER
O.A.	OUTDOOR AIR
OPER.	OPERATING
P	PUMP
P.D.	PRESSURE DROP
PH	PHASE
PRESS.	PRESSURE
PSI	POUNDS PER SQUARE INCH
QNTY.	QUANTITY
R.A.	RETURN AIR
REFRIG.	REFRIGERANT
RET.	RETURN
RF	RETURN FAN
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
RH	RELATIVE HUMIDITY
RHU	ROOF TOP HEATING UNIT
RTU	ROOF TOP UNIT
SS	STAINLESS STEEL
S.P.	STATIC PRESSURE
SQ.FT.	SQUARE FEET
SUP.	SUPPLY
TD	TRANSFER DUCT
TEMP.	TEMPERATURE
TG	TRANSFER GRILLE
TR	TOP REGISTER
TX	TOILET EXHAUST FAN
TYP.	TYPICAL
UH	UNIT HEATER
V	VOLTS
VEL.	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOL.	VOLUME
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN

LEGEND

- DUCTWORK, SINGLE LINE
- DUCTWORK, DOUBLE LINE
- 1" ACOUSTICAL LINING IN DUCT, SINGLE LINE
- 1" ACOUSTICAL LINING IN DUCT, DOUBLE LINE
- FLEXIBLE DUCTWORK
- RECTANGULAR SUPPLY DUCT DOWN
- RECTANGULAR SUPPLY DUCT UP
- RECTANGULAR RETURN DUCT DOWN
- RECTANGULAR RETURN DUCT UP
- RECTANGULAR ELBOW WITH TURNING VANES
- DUCT TRANSITION SQUARE TO ROUND
- 4-WAY SUPPLY CEILING DIFFUSER
- 3-WAY SUPPLY CEILING DIFFUSER
- 2-WAY SUPPLY CEILING DIFFUSER -OPPOSITE BLOW PATTERN
- 2-WAY SUPPLY CEILING DIFFUSER -CORNER BLOW PATTERN
- RETURN CEILING GRILLE
- DIRECTION OF SUPPLY AIR FLOW
- DIRECTION OF RETURN/EXHAUST AIR FLOW
- T — THERMOSTAT/TEMPERATURE SENSOR
- FC — FLEXIBLE CONNECTION
- S — FAN ON/OFF SWITCH
- S — SMOKE DETECTOR
- SD — SMOKE DAMPER
- FD/AD — FIRE DAMPER/ACCESS DOOR
- M — MOTORIZED DAMPER
- VOLUME DAMPER
- U — 1" DOOR UNDERCUT
- NEW PIPING
- CO — CARBON MONOXIDE DETECTOR

DESIGNED BY: _____
CHECKED BY: GDS
DRAWN BY: RWL
COMPARED BY: _____

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TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
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STEVE BELLONE - SUPERVISOR

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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

GENERAL NOTES AND LEGEND

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	M-001	OF

September 18, 2009
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AIR HANDLING UNIT SCHEDULE

SYSTEM NO.	LOCATION	SERVICE	NOMINAL TONS	TOTAL COOLING CAP.	SENS. COOLING CAP.	AIR FLOW	MIN. FRESH AIR	EXT. SP	DX COIL CONDITIONS					HEATING COIL	ELECTRICAL DATA				FILTER DATA						
									EAT		LAT		REFRIG.	HEATING BTUH AT 140 WTR TEMP	FAN HP	VOLTS PHASE HZ.	MCA	MFS	TYPE	EFF MERV NO.	QTY.	SIZE	WEIGHT (LB)	MANUFACTURER: MODEL NO.
									DB	WB	DB	WB												
				MBH	MBH	CFM	CFM	IN WG	°F	°F	°F	°F												

NOTES:

1. PROVIDE DUAL ECONOMIZER (ENTHALPY) CONTROL ON LENNOX AIR HANDLERS SERVING CORRIDORS.
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE HONEYWELL T7300 PROGRAMMABLE THERMOSTATS FOR ALL APARTMENT FAN COIL UNITS, CORRIDOR UNITS AND AMENITIES AIR HANDLING UNITS.

FAN SCHEDULE

FAN NO.	LOCATION	SERVICE	FAN DATA				ELECTRICAL DATA					WEIGHT LBS.	MANUFACTURER & MODEL NO.	REMARKS
			VOLUME FLOW	EXT. SP	DRIVE TYPE	FAN RPM	BHP	HP	WATTS	VOLTS/Ph/Hz				
			CFM	IN.WG										

NOTES:

1. PROVIDE NEMA 1 DISCONNECT.
2. PROVIDE WALL SLEEVE WITH REAR GUARD.

ELECTRIC HEATER SCHEDULE

TAG NO.	LOCATION	TYPE	CAPACITY		ELECTRICAL DATA				MANUF.	MODEL NO.	WEIGHT	REMARKS
			CFM	BTU/HR	KW	AMPS	MOTOR HP	VOLTS/PHASE			LBS	

1. WALL THERMOSTAT. WITH LOCKING ENCLOSURE
2. PROVIDE DISCONNECT SWITCH.
3. PROVIDE RECESSED TRIM FRAME.
4. PROVIDE WALL MOUNT BRACKET W/ 1/4" THRD ROD.
5. MAXIMUM MOUNTING HEIGHT: 9'-0".
6. POWERED OPERATED FRESH AIR INLET.
7. HI / LO AND ON/AUTO FAN SWITCH.
8. BUILT-IN THERMOSTAT,
9. AIR FILTERS.
10. TAMPERPROOF BUILT-IN THERMOSTAT.
11. HEATER ON & LOW AIRFLOW PILOT LIGHTS.

HEAT PUMP AIR CONDITIONING UNIT SCHEDULE - EVAPORATOR SECTION

SYSTEM NO.	LOCATION	SERVICE	EVAPORATOR SECTION DATA													MANUFACTURER & MODEL NO.
			TOTAL CAP.	SENS. CAP.	FAN		AIR SIDE				HEATING	ELECTRICAL		WT LBS		
					VOL. FLOW	EXT. SP	EAT		LAT			RUNNING CURRENT AMPS	VOLTS/PH/Hz			
							DB	WB	DB	WB						
			MBH	MBH	CFM	IN WG	°F	°F	°F	°F	MBH					
HP-LG-1	CEILING	GARAGE LVL ELEV MACH RM GARAGE LVL ELECT. ROOM GARAGE LVL MAINT ROOM	11.5		305	.12	78	62	55	54	11.5	.52	208V-1-60	50	DAIKIN FDXS12DVJU	
HP-1-1	1ST FLOOR VARIOUS	SERVICE AREAS	11.5		305	.12	78	62	55	54	11.5	.52	208V-1-60	50	DAIKIN FDXS12DVJU	

NOTES:

1. PROVIDE BUILT-IN CONDENSATE PUMP.
2. PROVIDE WALL MOUNTED WIRED DAIKIN CONTROL PANEL.
3. PROVIDE INTERLOCK WITH CUG-1
4. PROVIDE FRESH AIR INTAKE KIT.

HEAT PUMP AIR COOLED CONDENSING UNIT SCHEDULE

SYSTEM NO.	LOCATION/SERVICE	MEANS OF SUPPORT	AMBIENT AIR TEMP.	No. OF COMP.	ELECTRICAL DATA			WEIGHT (LB)	EER @ ARI	MANUFACTURER: MODEL NO.
					MCA	MFS	VOLTS/Ph/Hz			
			°F							
CUG-1	GARAGE LEVEL EMR GARAGE LEVEL ELECTRICAL GARAGE LEVEL MAINTENANCE	CEILING HUNG	80	1	8.3	15.0	208/1/60	80	13.0	RXS12DVJU

NOTES:

1. REFER TO DETAILS FOR IN-LINE PIPING COMPONENTS
2. UNIT TO BE MOUNTED TO SIDE WALL OF DESIGNATED SERVICE ROOM. PROVIDE KNEE BRACE ASSEMBLY FOR SIDE-WALL MOUNTING.
3. PROVIDE LOW AMBIENT DOWN TO 20 DEGREES.
4. PROVIDE CONDENSER FIN GUARDS.
5. PROVIDE DISCONNECT SWITCH.
6. PROVIDE DAIKIN "REFNET" REFRIGERANT BRANCH PIPING JOINTS TO FACILITATE INTERCONNECTION OF ALL COOLING UNITS WITH CONDENSING UNIT.

DESIGNED BY: _____

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COMPARED BY: _____

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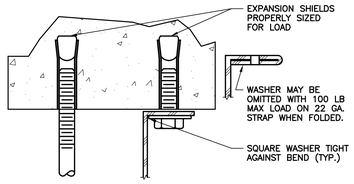
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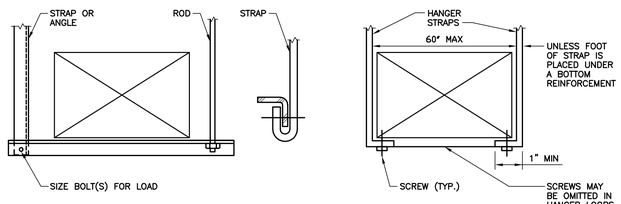
THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SCHEDULES

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	M-002	OF



(TYPICAL UPPER ATTACHMENT DEVICES)

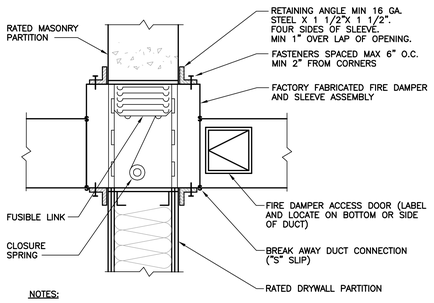


(TYPICAL LOWER HANGER ATTACHMENTS)

NOTE:
HANGER SPACING AND BRACING SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS.

DUCT SUPPORT DETAIL

SCALE: NONE

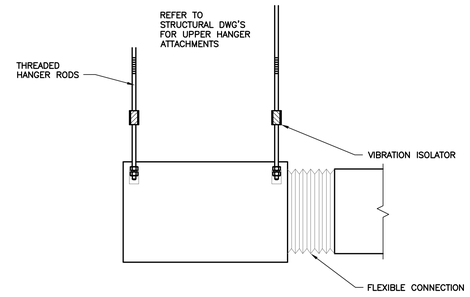


NOTES:

1. GREENHECK FIRE DAMPER WITH SLEEVE MODEL FD-150X TYPE B. UL LISTING R-13317.
2. FASTEN RETAINING ANGLE TO SLEEVE BY: TACK OR SPOT WELDS, No. 10 SHEETMETAL SCREWS, 1/4" BOLTS AND NUTS, 3/16 STEEL POP RIVETS. DO NOT FASTEN ANGLE TO WALL.
3. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO OBTAIN UL 555 LISTING.
4. MOUNTING DETAIL IS TYPICAL FOR COMBINATION FIRE/SMOKE DAMPERS.
5. HVAC CONTRACTOR SHALL CUT AND PATCH OPENINGS. HEADS OF MASONRY OPENINGS SHALL BE REINFORCED WITH 5x5x1/4 LINTELS BY HVAC CONTRACTOR.

FIRE DAMPER MOUNTING DETAIL

SCALE: NONE



HVAC HANGING EQUIPMENT INSTALLATION

SCALE: NONE

NOTE:
SIZE HANGER ROD, UPPER ATTACHMENT, SCREWS TO ADEQUATELY SUPPORT LOAD.

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COMPARED BY: _____

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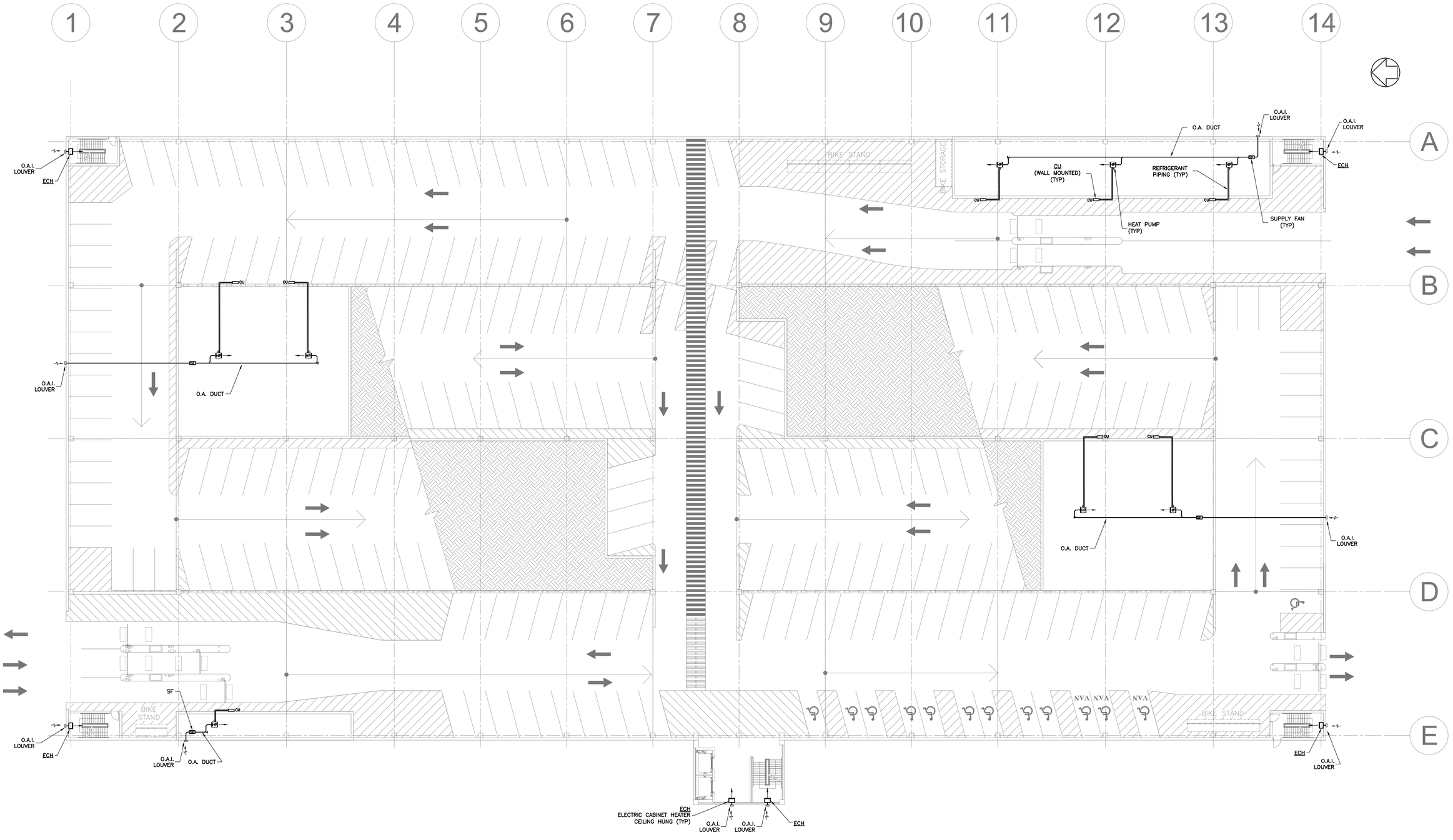
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

DETAILS

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1/16"=1'-0"

16 8 0 16

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FIRST FLOOR HVAC PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
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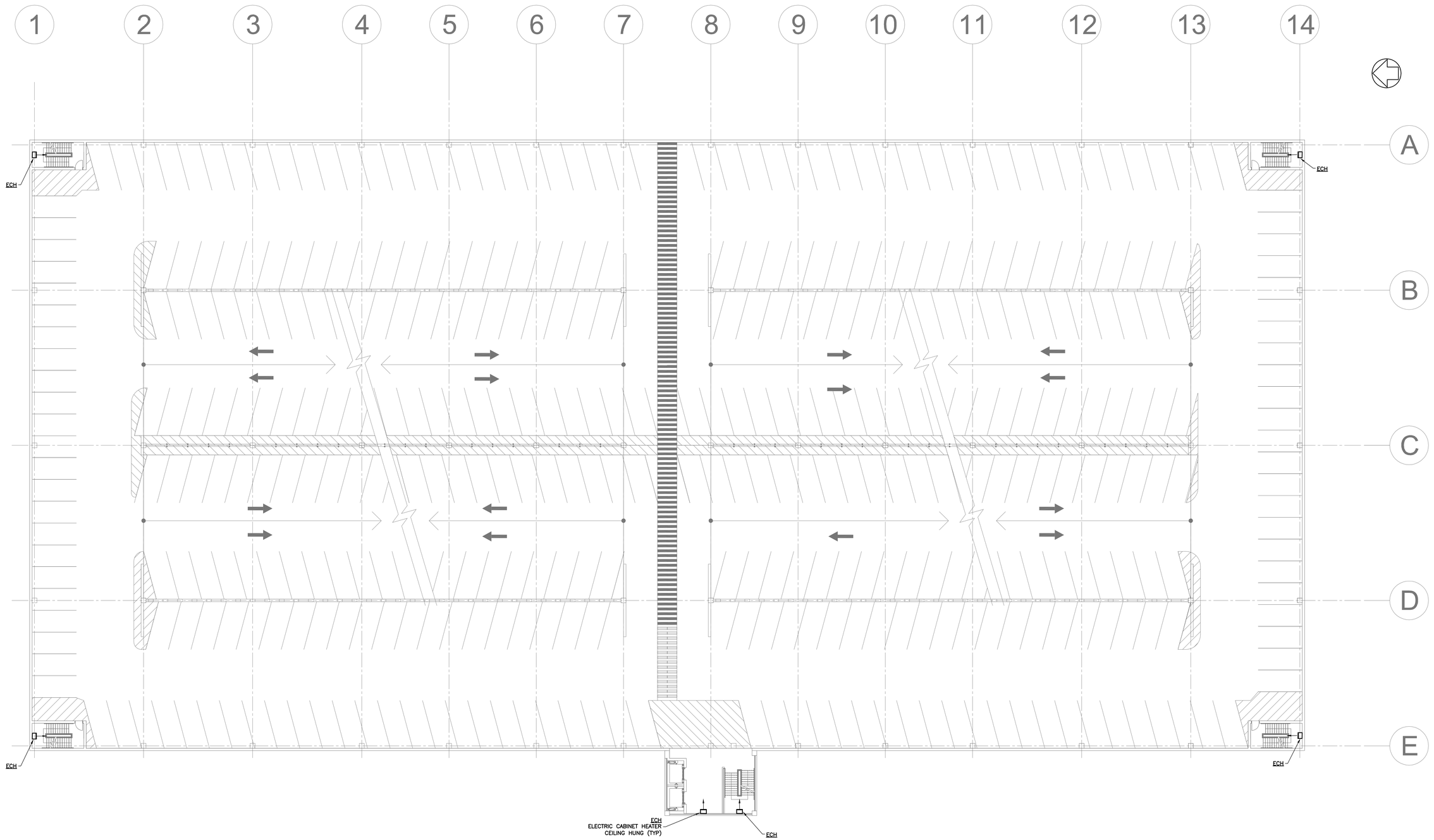
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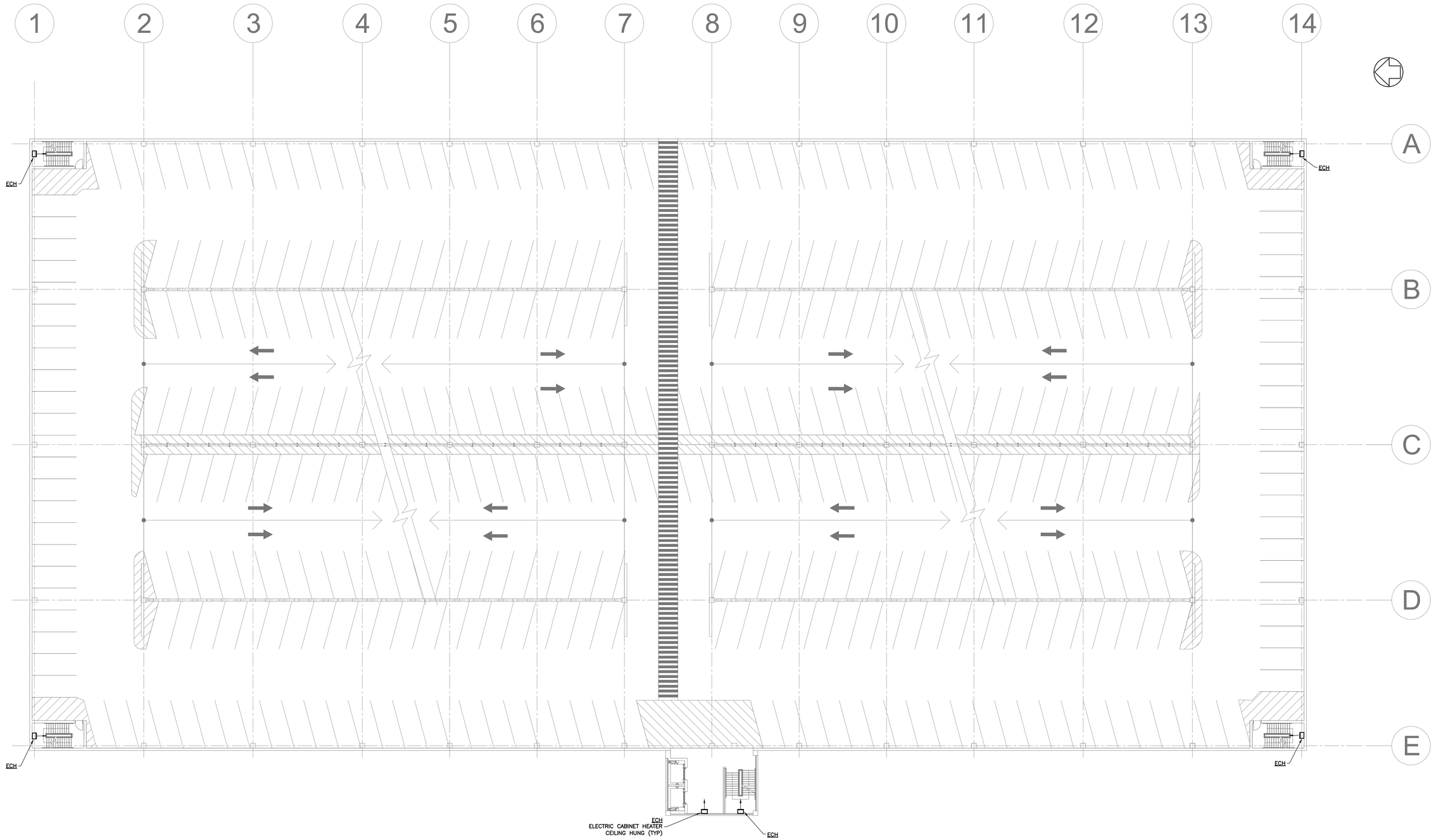
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100 Motor Parkway, Suite 350, Hauppauge, NY 11788, PH (631) 427-9853, FAX (631) 427-9855
307 Hudson Avenue, 4th Floor, Port Jervis, NY 12771, PH (845) 856-4444, FAX (845) 856-4445

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

THIRD FLOOR HVAC PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
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LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

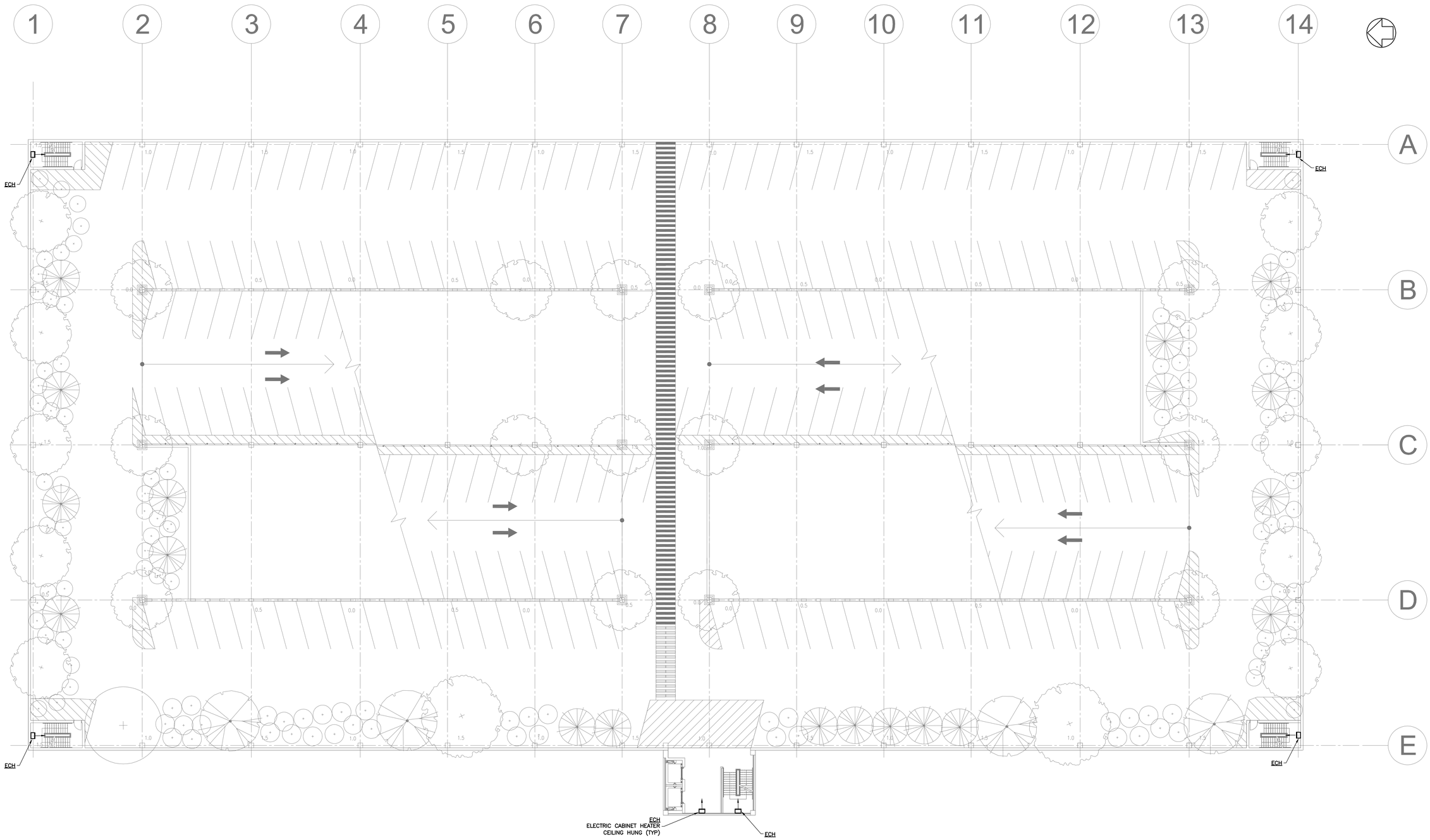
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIFTH FLOOR HVAC PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	M-105	OF

September 18, 2009
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DESIGNED BY: _____

CHECKED BY: GDS

DRAWN BY: RWL

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ROOF HVAC PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	M-106	OF

September 18, 2009
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GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, RESPONSIBLE VISIT THE SITE AND INSPECT THE SITE, BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND MATTERS THAT CAN, IN ANY WAY, AFFECT THE WORK OR THE COST THEREOF. SHOULD THE ELECTRICAL CONTRACTOR FIND DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, OR BE IN DOUBT AS TO THEIR MEANING, NOTIFY THE OWNER'S REPRESENTATIVE AT ONCE, IN WRITING, OF ANY DISCREPANCIES AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING ANY BID. ABSENCE OF SUCH NOTIFICATION SHALL BE INTERPRETED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION SHALL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK NECESSARY TO COMPLY WITH THESE REQUIREMENTS.

2. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHERE POSSIBLE BUT MAY BE DISTORTED FOR CLARITY. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY BENDS, OFFSETS AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF ELECTRICAL CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, RESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

3. THE ELECTRICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DRAWINGS AND COOPERATE WITH ALL OTHER CONTRACTORS PROVIDING LABOR, MATERIALS AND ALL WORK, SO THAT THE WORK AS A WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY, VERIFY WITH OTHER TRADES THE LOCATIONS OF MOTORS, EQUIPMENT, VOLTAGE AND PHASE, BEFORE COMMENCING ANY WORK. WORK INSTALLED IMPROPERLY DUE TO NON-COORDINATION SHALL BE CHANGED BY THE ELECTRICAL CONTRACTOR AT HIS OWN EXPENSE.

4. ALL INSTRUMENTS, APPARATUS AND EQUIPMENT SHALL BE TESTED AND PROVED TO BE ELECTRICALLY AND MECHANICALLY WITHOUT DEFECTS. THE ELECTRICAL SYSTEM SHALL BE TESTED FOR GROUNDS OR SHORTS. IF THERE IS TROUBLE WITHIN THE CIRCUIT WIRING, ALL SHORTED OR GROUNDED WIRES SHALL BE REPLACED AND THEN RETESTED. ALL METERS, CABLES, EQUIPMENT OR APPARATUS NECESSARY FOR MAKING ALL TESTS SHALL BE PROVIDED AND PROVIDED BY THIS CONTRACTOR.

5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING DELIVERY, RECEIVING, UNLOADING, STORING, UNCRATING, SETTING IN PLACE, AND PROTECTING FROM DAMAGE, VANDALISM, THEFT OR WEATHER DURING CONSTRUCTION FOR ALL NEW EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR OR PROVIDED BY OTHER PARTIES TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.

6. THE ELECTRICAL CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS AND TAXES APPLICABLE TO THE ELECTRICAL WORK AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THIS CONTRACT. PROVIDE ALL INSTRUMENTS AND PERFORM ALL TESTS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. CORRECT ALL FAILURES AND REPLACE ANY DAMAGED PORTIONS OF THE WORK RESULTING FROM TESTS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE TESTS.

7. THE ELECTRICAL INSTALLATION IS TO BE IN THE STRICT ACCORDANCE WILL ALL APPLICABLE LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND CODES OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION, INCLUDING ANY LOCAL UTILITY COMPANY REQUIREMENTS.

8. ALL EQUIPMENT/DEVICES PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW AND OF FIRST QUALITY AND SHALL BEAR THE APPROPRIATE UL OR CSA APPROVED LABELS FOR SPECIFIC PURPOSE. ALL MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC).

9. ALL WIRE AND CABLE SHALL BE COPPER WITH 600 VOLT INSULATION. MINIMUM WIRE SIZE SHALL BE SIZE #12 AWG (WITH THE EXCEPTION OF CONTROL WIRING). WIRE SIZE #10 AWG AND SMALLER SHALL BE SOLID AND ALL CABLE SIZE #8 AWG AND ABOVE SHALL BE STRANDED, WITH "TYPES" AS FOLLOWS:

- "THWN" GREATER THAN OR EQUAL TO #6 AWG FEEDER AND BRANCH CIRCUIT WIRING ABOVE FINISHED FLOORS AND AREAS NOT SUBJECT TO MOISTURE
- "XHHW" FEEDER AND BRANCH CIRCUIT WIRE IN FINISHED FLOORS AND/OR SUBGRADE RUNS OR AREAS SUBJECT TO MOISTURE – ONLY.

10. NO HOLES OR RECESSES MAY BE CUT IN WALLS, FLOORS, CEILINGS, OR ANY PART OF THE BUILDING TO ADMIT CONDUIT OR OTHER WORK OF THIS CONTRACT WITHOUT PRIOR SUBMISSION TO AND REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. WORK SHALL BE PERFORMED BY COMPETENT PERSONS SKILLED IN THIS FIELD IN A NEAT AND CRAFTSMAN LIKE MANNER. ANY CUTTING, DRILLING, CORING, ETC. SHALL BE DONE WET TO MINIMIZE THE SPREAD OF DUST. PROVIDE DUST PROTECTION AS APPROVED BY OWNER'S REPRESENTATIVE. THE PORTIONS CUT MUST BE RESTORED TO THEIR ORIGINAL CONDITION AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL WORK IN THE BASE BID. EXACT LOCATION OF CONDUIT PENETRATION(S) SHALL BE DETERMINED IN FIELD. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING OF ROUGH OR FINISH WORK REQUIRED BY ELECTRICAL INSTALLATIONS. PATCHING SHALL BE OF THE SAME MATERIAL, FINISH, AND WORKMANSHIP AS THE ORIGINAL WORK.

11. PROVIDE SLEEVES FOR PENETRATIONS THROUGH BLOCK OR CONCRETE WALLS AND FLOORS.

12. WHERE NOTED AND AS REQUIRED BY APPLICABLE CODES. ALL LOW TENSION CONDUIT, FIRE ALARM CONDUIT, ETC. WHICH HAVE RUNS IN EXCESS OF 200 FEET IN LENGTH AND/OR CONSTRAINING BENDS IN EXCESS OF 270 DEGREES SHALL BE PROVIDED WITH A PULLBOX. ALL PULL BOXES SHALL BE LABELED FOR THEIR INTENDED USE OR VOLTAGE LEVEL, AND ALL WIRE AND CABLE PROVIDED UNDER THIS SECTION SHALL BE TAGGED AT ALL PULL BOXES. PROVIDE ACCESS DOORS WHERE REQUIRED. COORDINATE WITH GENERAL CONSTRUCTION WORK.

13. EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES, SWITCHES, WALL OUTLETS, ETC. SHALL BE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.

14. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO START OF ANY WORK. ANY WORK OR EQUIPMENT INSTALLED PRIOR TO APPROVAL OF RELEVANT SHOP DRAWINGS FOUND TO BE UNACCEPTABLE SHALL BE REMOVED AND MODIFIED AT THE CONTRACTOR'S SOLE EXPENSE INCLUDING ANY RESULTANT SCHEDULING DELAYS EXPERIENCED BY ANY TRADE.

15. PREPARE AND FURNISH TO OWNER 'AS-BUILT' PLANS FOR ALL WORK INSTALLED.

16. ALL WORK SHALL BE PERMANENTLY AND EFFECTUALLY GROUNDED WHETHER OR NOT SUCH CONNECTIONS ARE SPECIFICALLY SHOWN OR SPECIFIED. GROUND RESISTANCE AT ANY POINT SHALL NOT EXCEED 25 OHMS.

17. ALL MATERIAL INSTALLED UNDER THIS SECTION OF THE WORK SHALL BE CLEANED OF GREASE, OIL, PLASTER, DIRT/DUST AND THE LIKE. ALL GREASE AND OIL SHALL BE CLEANED FROM FLOORS, CEILINGS, AND WALLS AND ALL UNUSED CONSTRUCTION MATERIAL AND DEBRIS SHALL BE REMOVED FROM THE SITE.

18. ELECTRICAL CONTRACTOR SHALL INSTALL SIZE OF CONDUIT SHOWN ON PLANS AND SHALL NOT REDUCE SIZING OF CONDUITS TO SUIT WIRE FILL CAPACITY.

19. ALL CONDUIT USED FOR THIS PROJECT SHALL BE 3/4" MINIMUM.

20. ALL SUSPENDED CONDUITS SHALL BE RIGIDLY SUPPORTED FROM THE BUILDING STRUCTURE BY MEANS OF APPROVED CONDUIT FASTENERS, HANGERS, STRAPS, SUPPORTS, CLAMPS, ETC., FIRMLY ANCHORED IN PLACE AND SPACED AT INTERVALS NOT TO EXCEED 10'-0".

21. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL RODS, ANGLES, RAILS, STRUTS, BRACE PLATES, PLATFORMS, ETC., REQUIRED FOR SUSPENSION OR SUPPORT OF CONDUIT AND EQUIPMENT AND ALL STRAPS, CLAMPS, THREADED RODS, TURNBUCKLES, ANCHORS, ETC. AND MISCELLANEOUS SPECIALTIES REQUIRED FOR THE ATTACHMENT OF HANGERS AND SUPPORTS TO THE STRUCTURE. ALL CONDUIT, FASTENERS, STRAPS, SUPPORTS SHALL BE BOLT-ON GALVANIZED STEEL ON EXPOSED CONSTRUCTION AND IN WET AREAS. SNAP-ON METAL "CADDY" CLIPS IN METAL PARTITION WALLS AND INDEPENDENTLY SUPPORTED ABOVE THE SUSPENDED CEILINGS WILL BE PERMITTED. ALL DEVICES/EQUIPMENT UTILIZED FOR THE SUPPORT OF CONDUIT SHALL BE UL LISTED FOR THE USE.

22. ALL CONDUIT INSTALLED (SPARE OR UTILIZED) SHALL HAVE A MINIMUM, ONE (1) 14 AWG ZINC-COATED STEEL OR MONOFILAMENT PLASTIC PULL LINE WITH NOT LESS THAN 200LB TENSILE STRENGTH CHARACTERISTICS. LEAVE 12" (MINIMUM) OF SLACK AT EACH END OF CONDUIT.

23. ALL CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS WITH 90° BENDS.

24. SPARE WIRES INSTALLED SHALL BE NEATLY COILED, BOUND AND PLACED IN SPACE AVAILABLE. LEAVE AT A MINIMUM, 8' OF SLACK AT EACH DESTINATION.

25. PULLBOXES, JUNCTION BOXES, CONDUIT BODIES AND EXPANSION JOINTS SHALL BE INSTALLED AS PER NFPA 70.

26. IDENTIFY EACH INDIVIDUALLY MOUNTED MOTOR, STARTER, DISCONNECT SWITCH, DISTRIBUTION PANEL, CONTROL PANEL, ETC. WITH A NAMEPLATE BEARING THE DESCRIPTION AND TAG OF THE EQUIPMENT CONTROLLED.

27. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS, WITH NO MATERIAL COMPROMISE IN QUALITY, MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE AND/OR CHANGES WHICH RESULT IN EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL BY THE OWNER'S REPRESENTATIVE.

28. ANY DAMAGE, TO EXISTING STRUCTURES, UTILITIES, VEGETATION, ETC. NOT SCHEDULED FOR DEMOLITION OR REMOVAL, INCURRED DURING CONSTRUCTION, WHETHER INCIDENTAL OR ACCIDENTAL, SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.

29. ELECTRICAL CONTRACTOR TO COORDINATE ALL DISCONNECT SWITCH REQUIREMENTS AND LOCATIONS WITH ELECTRICAL INSPECTOR, AND/OR THE OWNER'S REPRESENTATIVE.

30. ELECTRICAL CONTRACTOR SHALL VERIFY PHASE LOAD BALANCING ON POWER PANELS UPON COMPLETION OF THE ELECTRICAL INSTALLATION.

31. ALL CONDUIT AND CABLE HOME RUNS SHALL CONSIST OF THREE CIRCUITS MAXIMUM TO THE PANELBOARD, UNLESS OTHERWISE NOTED. COMBINING OF MULTIPLE HOME RUNS IN A SINGLE CONDUIT SHALL NOT BE PERMITTED.

32. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL NEW LIFE SAFETY DEVICES AND ASSOCIATED CABLING.

33. ALL 120 VOLT, 208 VOLT OR 480 VOLT BRANCH CIRCUIT RUNS IN EXCESS OF 100 FEET FROM THE PANEL TO THE DEVICE SHALL BE PROVIDED WITH #10 MINIMUM AWG WIRE FOR ITS ENTIRE LENGTH.

34. HORSEPOWER RATED SWITCHES SHALL BE USED FOR ALL MOTOR CIRCUITS. ELECTRICAL CONTRACTOR SHALL INSTALL WHERE APPLICABLE TOGGLE SWITCHES FOR USE AS DISCONNECT. THESE SWITCHES SHALL BE 'T' RATED FOR RESISTANCE LOADS AND 'M' RATED FOR MOTOR LOADS.

35. ALL FIRE ALARM SYSTEM RACEWAYS, SWITCHES AND JUNCTION BOXES SHALL BE PAINTED RED.

36. ALL EMERGENCY LIGHTS SHOULD BE CONNECTED AHEAD OF ANY LOCAL SWITCH.

37. ALL JUNCTION BOXES INSTALLED IN RATED WALL SHALL ALSO BE RATED.

38. A SEPARATE NEUTRAL WIRE SHALL BE INSTALLED FOR EACH 120V BRANCH CIRCUIT FOR ALL RECEPTACLES AND COMPUTER CIRCUITS.

39. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LIGHTING FIXTURE SPECIFICATIONS SCHEDULE.

40. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL (RGS). EMT CONDUIT SHALL BE USED IN UNEXPOSED AREAS.

41. ALL ELECTRICAL WIRING SHALL CONFORM WITH THE NATIONAL ELECTRICAL CODE. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED BY THE NEW YORK BOARD OF FIRE UNDERWRITERS OR BY AN EQUIVALENT CERTIFYING AGENCY.

42. CONTRACTOR TO PROVIDE THE FOLLOWING TYPE OCCUPANCY SENSOR ACCORDING TO USE OF AREA.

AREA	OCCUPANCY SENSOR TYPE
SMALL OFFICE	• PIR AUTOMATIC WALL SWITCH • PIR CEILING SENSOR
SMALL UTILITY ROOMS	WALL SWITCH SENSOR
TOILETS	ULTRASONIC SENSORS

PLANS DO NOT SHOW EXACT NUMBER OF OCCUPANCY SENSORS. CONTRACTOR TO PROVIDE ADEQUATE AMOUNT OF OCCUPANCY SENSORS FOR EACH AREA LISTED ABOVE AND TO INCLUDE IN HIS BID THE PRICE OF THE OCCUPANCY SENSOR, THEIR INSTALLATION AND THEIR WIRING.

LEGEND

EM LT-13 — FLUORESCENT FIXTURE, TYPE AS NOTED

EM LT-1 — "LT-13" OR "LT-1" DENOTES FIXTURE TYPE

"EM" DENOTES FIXTURE WITH EMERGENCY BATTERY PACK

"o" DENOTES SWITCH CONTROL

1x4 FLUORESCENT LIGHTING FIXTURE

FLUORESCENT STRIP LIGHTING FIXTURE

EXIT LIGHT WITH DIRECTIONAL ARROWS AS SHOWN

OUTLET BOX WITH FLEXIBLE CONDUIT CONNECTION(S) TO LIGHTING FIXTURES(S)

EMERGENCY LIGHTING BATTERY PACK LIGHTING UNIT W/2 HEADS

S_{mc} — WALL MOUNTED SWITCH – MOMENTARY CONTACT

S_o — WALL MOUNTED SINGLE POLE SWITCH LEVITON DECORA SERIES. (SUBSCRIPT INDICATES LIGHTING FIXTURES CONTROLLED)

S_o^3 — WALL MOUNTED THREE WAY SWITCH LEVITON DECORA SERIES (SUBSCRIPT INDICATES LIGHTING FIXTURES CONTROLLED)

S_{os} — AUTOMATIC WALL SWITCH/OCCUPANCY SENSOR COMBINATION WATTSTOPPER CAT. # WS200

S_k — WALL MOUNTED SWITCH – KEY OPERATED

WALL-MOUNTED GENERAL PURPOSE DUPLEX OUTLET,
'CM' DENOTES COPY MACHINE
'D' DENOTES DRYER
'EWC' DENOTES ELECTRIC WATER COOLER
'GFI' DENOTES GROUND FAULT INTERRUPTOR
'GR' DENOTES GAS RANGE
'GS' DENOTES GAS STOVE
'IG' DENOTES ISOLATED GROUND
'MO' DENOTES MICROWAVE OVEN
'R' DENOTES REFRIGERATOR
'T' DENOTES TAMPERPROOF
'TR' DENOTES TOATER
'UCR' DENOTES UNDERCOUNTER REFRIGERATOR
'VM'DENOTES VENDING MACHINE
'W' DENOTES WASHING MACHINE
'WP' DENOTES WEATHERPROOF

(42) — ABOVE COUNTER WALL MOUNTED POWER OUTLET, NUMBER IN PARENTHESIS INDICATES/DENOTES HEIGHT TO CENTERLINE AFF

WALL-MOUNTED GENERAL PURPOSE QUAD OUTLET.

CEILING-MOUNTED GENERAL PURPOSE QUAD OUTLET.

GROUND FAULT INTERRUPTER

A — WALL MOUNTED STRAIGHT BLADE OUTLET, 2 POLE, 3 WIRE, 20A, 250 VOLTS (NEMA 6-20R)

HOMERUN CONCEALED IN WALLS OR CEILINGS. 2#12 AWG WIRES PER CIRCUIT (TYPICAL). PROVIDE GROUND WIRE FOR EACH CIRCUIT. ARROWS INDICATE CIRCUIT QUANTITY

CONDUIT CONCEALED IN WALLS OR ABOVE HUNG CEILINGS, 3/4" MINIMUM UNLESS OTHERWISE NOTED

WIRING

X — JUNCTION BOX
'EHD' DENOTES ELECTRIC HAND DRYER
'WS' DENOTES WINDOW SHADE

MOTOR

NEW SURFACE MOUNTED ELECTRICAL PANEL
SEE PLANS FOR LOCATION

RECESSED MOUNTED ELECTRICAL PANEL
SEE PLANS FOR LOCATION

X — WALL MOUNTED DATA OUTLET, PROVIDE 1" EMPTY CONDUIT FROM OUTLET AND TERMINATE AT JUNCTION BOX ABOVE HUNG CEILING. PROVIDE DRAG LINE.
"P" DENOTES PUBLIC TELEPHONE MOUNTED 48"AFF
"W" DENOTES MOUNTED 48"AFF
"POS" DENOTES POINT OF SALE OUTLET

2 — WALL MOUNTED TEL/DATA OUTLET, PROVIDE 1" EMPTY CONDUIT FROM OUTLET AND TERMINATE AT JUNCTION BOX ABOVE HUNG CEILING. PROVIDE DRAG LINE. NUMBER INDICATES THA NUMBER OF DATA LINES

DF — SINGLE FACE SURFACE MOUNTED WIRELESS ANALOG 9" CLOCK
"G" DENOTES GUARD,
"DF" DENOTES DOUBLE FACE

CCTV-1 — CLOSED CIRCUIT TV CAMERA

ABBREVIATIONS

A	AMPS
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AHU-1	AIR HANDLING UNIT #1
AIR COND	AIR CONDITIONING
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AVG	AVERAGE
BL	BLANK
BLDG	BUILDING
BP-1	BOILER PUMP #1
B.P.S.	BOLTED PRESSURE SWITCH
C	CONDUIT
C/B	CIRCUIT BREAKER
C/C	CENTER TO CENTER
C/T	CURRENT TRANSFORMER
CH-1	CABINET HEATER #1
CL	CEILING
CKT	CIRCUIT
CCTV	CLOSED CIRCUIT TELEVISION
CM	COPY MACHINE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CU-1	CONDENSING UNIT #1
DIA	DIAMETER
DAC-1	DUCTLESS AIR CONDITIONER #1
DP	DISTRIBUTION PANEL
DR-1	DIMMER RACK #1
DWG	DRAWING
EC	EMPTY CONDUIT
ECH-1	ELECTRIC CABINET HEATER #1
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	ON EMERGENCY CIRCUIT
EMH-1	ELECTRICAL MANHOLE #1
ENTR	ENTRANCE
ET-1	EXPANSION TANK #1
ETWH-1	ELECTRIC TANKLESS WATER HEATER #1
EWC	ELECTRIC WATER COOLER
EWH-1	ELECTRIC WALL HEATER #1
FL	FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FT	FEET
F@	FUSED AT
GDF-1	GAS DUCT FURNACE #1
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND, G	GROUND (INDICATES GREEN GROUND CONDUCTOR)
GX-1	GENERAL EXHAUST FAN#1
HC-1	HEATING COIL #1
HGT	HEIGHT
HP	HORSEPOWER
HRU-1	HEAT RECOVERY UNIT #1
HVAC	HEATING VENTILATING AND AIR CONDITIONING
HWP-1	HOT WATER PUMP #1
IN (")	INCHES
IT-1	ISOLATION TRANSFORMER #1
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
LP	LIGHTING PANEL
LTG	LIGHTING
M	MAIN
MACH	MACHINE
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MDP	MAIN DISTRIBUTION PANEL
MISC	MISCELLANEOUS
MO	MICROWAVE OVEN
MTD	MOUNTED
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
OHD	OVERHEAD DOOR
P	POLES
PB	PULL BOX
PH	PHASE
PNL	PANEL
PP	POWER PANEL
R	REMOVE
RD-1	ROLL-UP DOOR #1
REC	RECEPTACLE
REQ	REQUIRED
RF-1	RETURN FAN #1
RM	ROOM
S/C	SEPARATE CIRCUIT
SP	SPARE
SPECS	SPECIFICATIONS
SPKR	SPEAKER
STD	STANDARD
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
ST	SWITCH
T	TAMPER
TEL	TELEPHONE
TR	TOASTER
TSER	TELECOMMUNICATION SERVICE ENTRY ROOM
TX-1	TOILET EXHAUST FAN #1
TYP	TYPICAL
UG	UNDERGROUND
UH-1	UNIT HEATER #1
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WALL MOUNTED
WAP	WIRELESS ACCESS POINT
WATTS	WATTS
WP	WEATHERPROOF
TFMR	TRANSFORMER
Ø,	PHASE

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

September 18, 2009
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SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

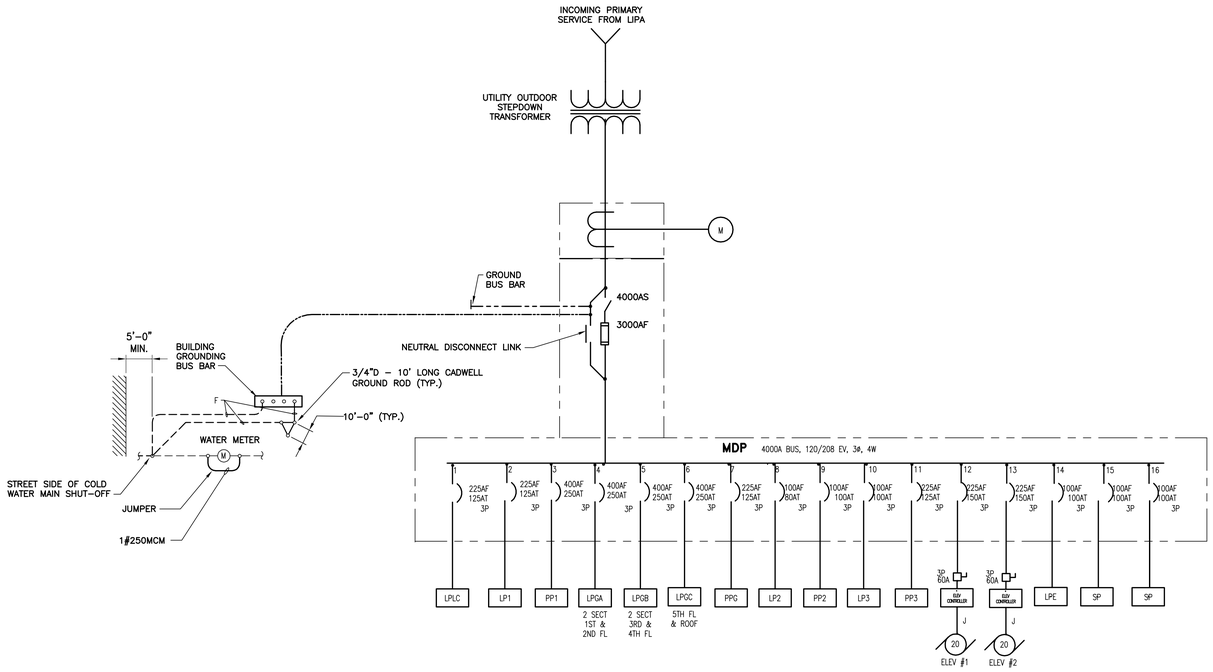
STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

GENERAL NOTES AND LEGEND

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-001	OF



DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

September 18, 2009
O:\CE1745A\ELEC\E-002 ONE LINE DIAGRAM.dwg

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ONE LINE DIAGRAM

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-002	OF

PANEL SCHEDULE LP1

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 125A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 225A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE PP1

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGA SEC 1

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGA SEC 2

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
43	–	–	20	–			20	–	–	44
45	–	–	20		–		20	–	–	46
47	–	–	20			–	20	–	–	48
49	–	–	20	–			20	–	–	50
51	–	–	20		–		20	–	–	52
53	–	–	20			–	20	–	–	54
55	–	–	20	–			20	–	–	56
57	–	–	20		–		20	–	–	58
59	–	–	20			–	20	–	–	60
61	–	–	20	–			20	–	–	62
63	–	–	20		–		20	–	–	64
65	–	–	20			–	20	–	–	66
67	–	–	20	–			20	–	–	68
69	–	–	20		–		20	–	–	70
71	–	–	20			–	20	–	–	72
73	–	–	20	–			20	–	–	74
75	–	–	20		–		20	–	–	76
77	–	–	20			–	20	–	–	78
79	–	–	20	–			20	–	–	80
81	–	–	20		–		20	–	–	82
83	–	–	20			–	20	–	–	84
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPLC

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 125A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 225A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LP2

LOCATION: OFFICE #1

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 100A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 80A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE PP2

LOCATION: OFFICE #1

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 100A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 100A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGB SEC 1

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGB SEC 2

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
43	–	–	20	–			20	–	–	44
45	–	–	20		–		20	–	–	46
47	–	–	20			–	20	–	–	48
49	–	–	20	–			20	–	–	50
51	–	–	20		–		20	–	–	52
53	–	–	20			–	20	–	–	54
55	–	–	20	–			20	–	–	56
57	–	–	20		–		20	–	–	58
59	–	–	20			–	20	–	–	60
61	–	–	20	–			20	–	–	62
63	–	–	20		–		20	–	–	64
65	–	–	20			–	20	–	–	66
67	–	–	20	–			20	–	–	68
69	–	–	20		–		20	–	–	70
71	–	–	20			–	20	–	–	72
73	–	–	20	–			20	–	–	74
75	–	–	20		–		20	–	–	76
77	–	–	20			–	20	–	–	78
79	–	–	20	–			20	–	–	80
81	–	–	20		–		20	–	–	82
83	–	–	20			–	20	–	–	84
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

MAIN DISTRIBUITON PANEL MDP

4000AF/3000AT 120/280V, 3ø, 4W ICS: 65KAMP SYMMETRICAL

CIRCUIT BREAKER NUMBER	LOAD SERVED	BREAKER (A) FRAME	BREAKER (A) TRIP (A)	POLE	KVA
1	LPLC	225	125	3	–
2	LP1	225	125	3	–
3	PP1	400	250	3	–
4	LPGA	400	250	3	–
5	LPGB	400	250	3	–
6	LPGC	400	250	3	–
7	PPG	225	125	3	–
8	LP2	100	80	3	–
9	PP2	100	100	3	–
10	LP3	100	100	3	–
11	PP3	225	125	3	–
12	ELEV #1	225	150	3	–
13	ELEV #2	225	150	3	–
14	LPE	100	100	3	–
15	–	100	100	3	–
16	–	100	100	3	–
17	–	–	–	–	–
18	–	–	–	–	–
19	–	–	–	–	–

PANEL SCHEDULE LP3

LOCATION: OFFICE #2

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 100A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 100A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE PP3

LOCATION: OFFICE #2

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 125A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 225A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGC SEC 1

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
1	–	–	20	–			20	–	–	2
3	–	–	20		–		20	–	–	4
5	–	–	20			–	20	–	–	6
7	–	–	20	–			20	–	–	8
9	–	–	20		–		20	–	–	10
11	–	–	20			–	20	–	–	12
13	–	–	20	–			20	–	–	14
15	–	–	20		–		20	–	–	16
17	–	–	20			–	20	–	–	18
19	–	–	20	–			20	–	–	20
21	–	–	20		–		20	–	–	22
23	–	–	20			–	20	–	–	24
25	–	–	20	–			20	–	–	26
27	–	–	20		–		20	–	–	28
29	–	–	20			–	20	–	–	30
31	–	–	20	–			20	–	–	32
33	–	–	20		–		20	–	–	34
35	–	–	20			–	20	–	–	36
37	–	–	20	–			20	–	–	38
39	–	–	20		–		20	–	–	40
41	–	–	20			–	20	–	–	42
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

PANEL SCHEDULE LPGC SEC 2

LOCATION: ELECTRICAL ROOM

SUPPLY CHARACTERISTICS: VOLTS: 120/208V PHASE: 3ø, 4W NEUTRAL: 100%
MAIN PROTECTIVE DEVICE: 250A CB CYCLES: 60 DOOR REQ'D: YES
MAIN BUS SIZE: 400A MOUNTING: SURFACE
NO. OF POLES: 42

CKT NO.	DESIGNATION	WIRE SIZE	CKT BKR	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	CKT BKR	WIRE SIZE	DESIGNATION	CKT NO.
43	–	–	20	–			20	–	–	44
45	–	–	20		–		20	–	–	46
47	–	–	20			–	20	–	–	48
49	–	–	20	–			20	–	–	50
51	–	–	20		–		20	–	–	52
53	–	–	20			–	20	–	–	54
55	–	–	20	–			20	–	–	56
57	–	–	20		–		20	–	–	58
59	–	–	20			–	20	–	–	60
61	–	–	20	–			20	–	–	62
63	–	–	20		–		20	–	–	64
65	–	–	20			–	20	–	–	66
67	–	–	20	–			20	–	–	68
69	–	–	20		–		20	–	–	70
71	–	–	20			–	20	–	–	72
73	–	–	20	–			20	–	–	74
75	–	–	20		–		20	–	–	76
77	–	–	20			–	20	–	–	78
79	–	–	20	–			20	–	–	80
81	–	–	20		–		20	–	–	82
83	–	–	20			–	20	–	–	84
				–	–	–				

TOTAL LOAD: –VA

REMARKS:
ICS: 18K AMP SYMMETRICAL

DESIGNED BY: _____
CHECKED BY: RW
DRAWN BY: RB
COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

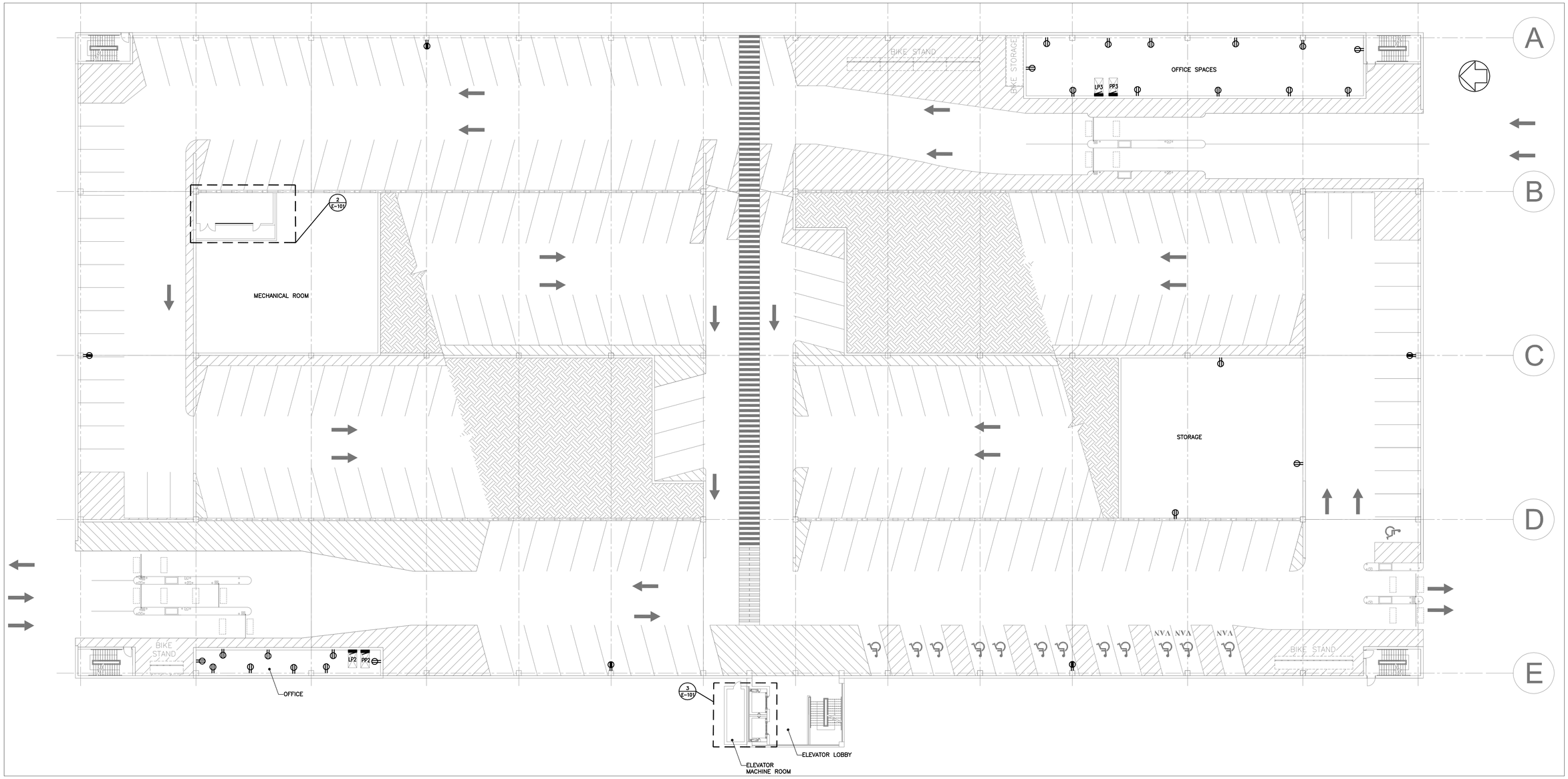
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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

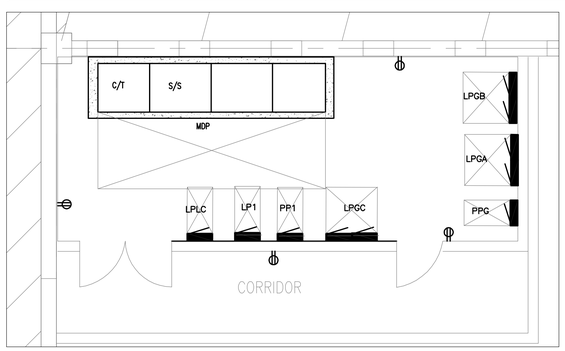
SCHEDULES

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-003	OF

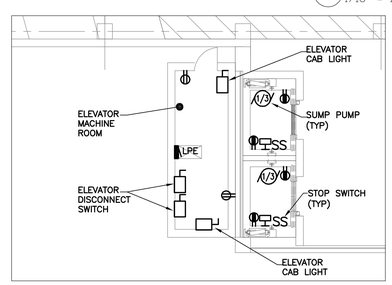
September 18, 2009
O:\CE1745A\ELEC\E-003 SCHEDULES.dwg



1 FIRST FLOOR POWER PLAN
1/16" = 1'-0"



2 ELECTRICAL ROOM
1/4" = 1'-0"



3 ELEVATOR PIT & MACHINE ROOM
1/8" = 1'-0"

1/16"=1'-0" 16 8 0 16

DESIGNED BY:
CHECKED BY: RW
DRAWN BY: RB
COMPARED BY:

September 19, 2009
O:\CE1745A\ELEC\E-101 FIRST FLOOR POWER PLAN.dwg

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

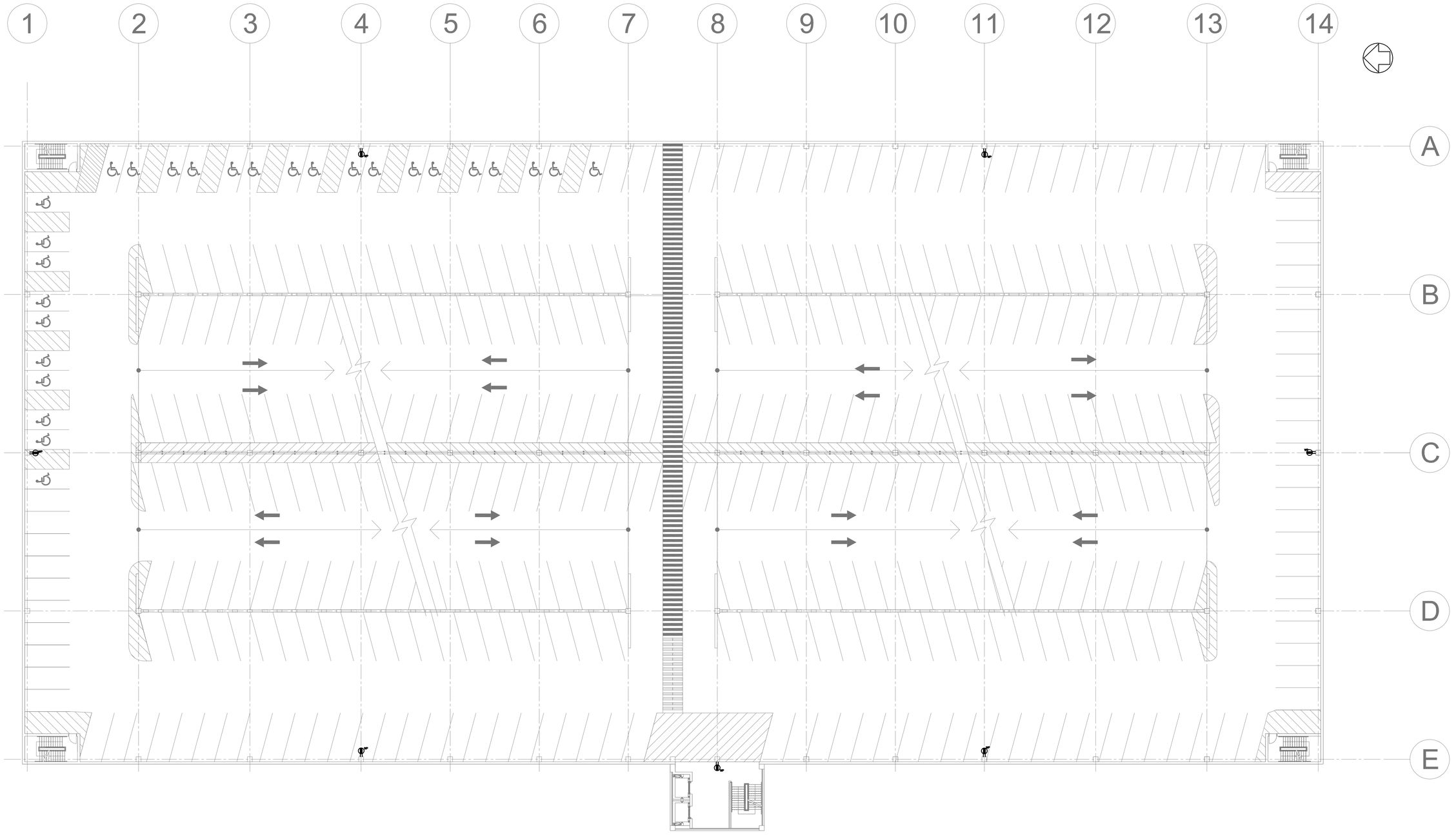
STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIRST FLOOR POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-101	OF



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

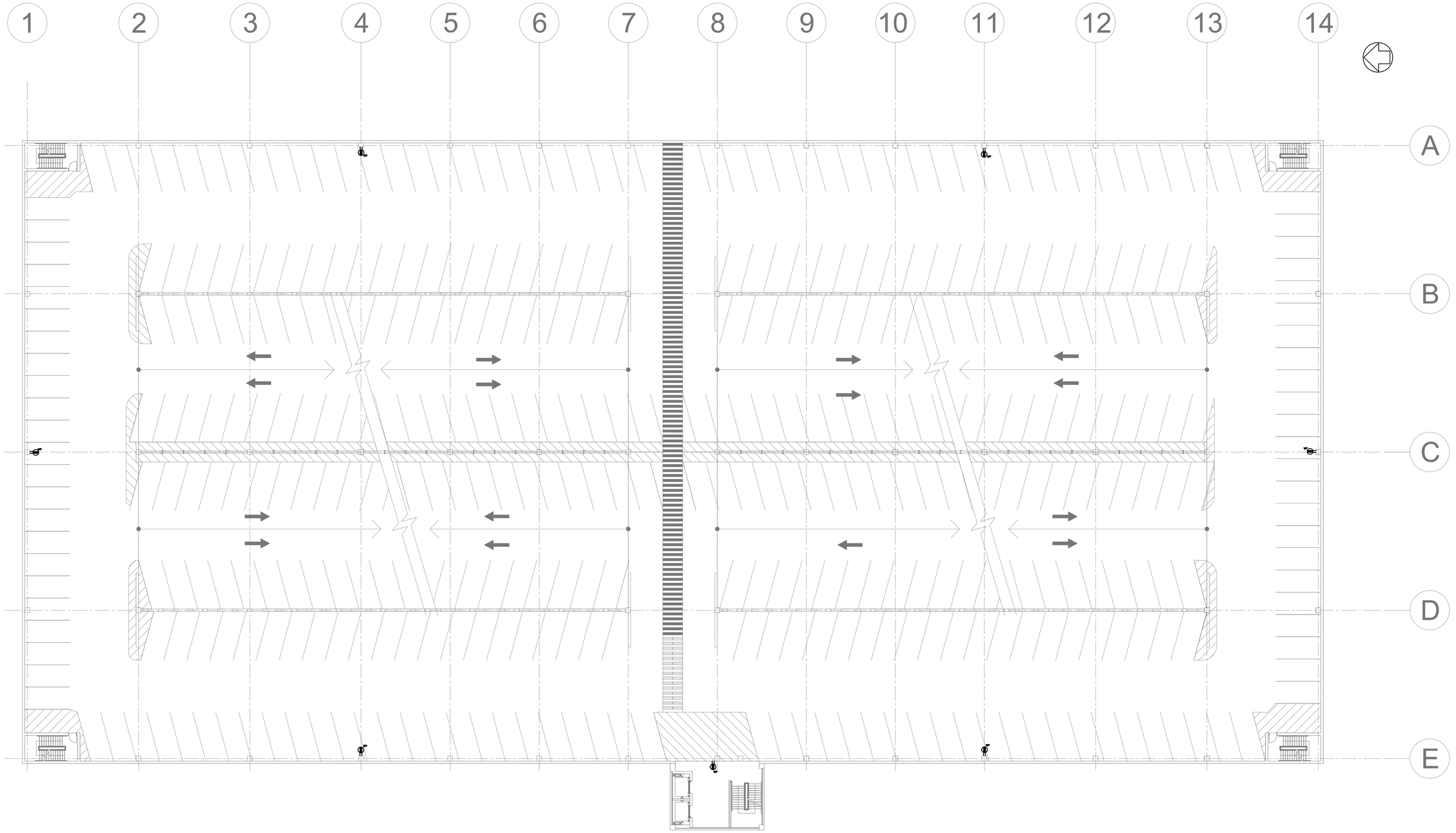
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SECOND FLOOR POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-102	OF

September 18, 2009
O:\GET745A\ELEC\E-102 SECOND FLOOR POWER PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

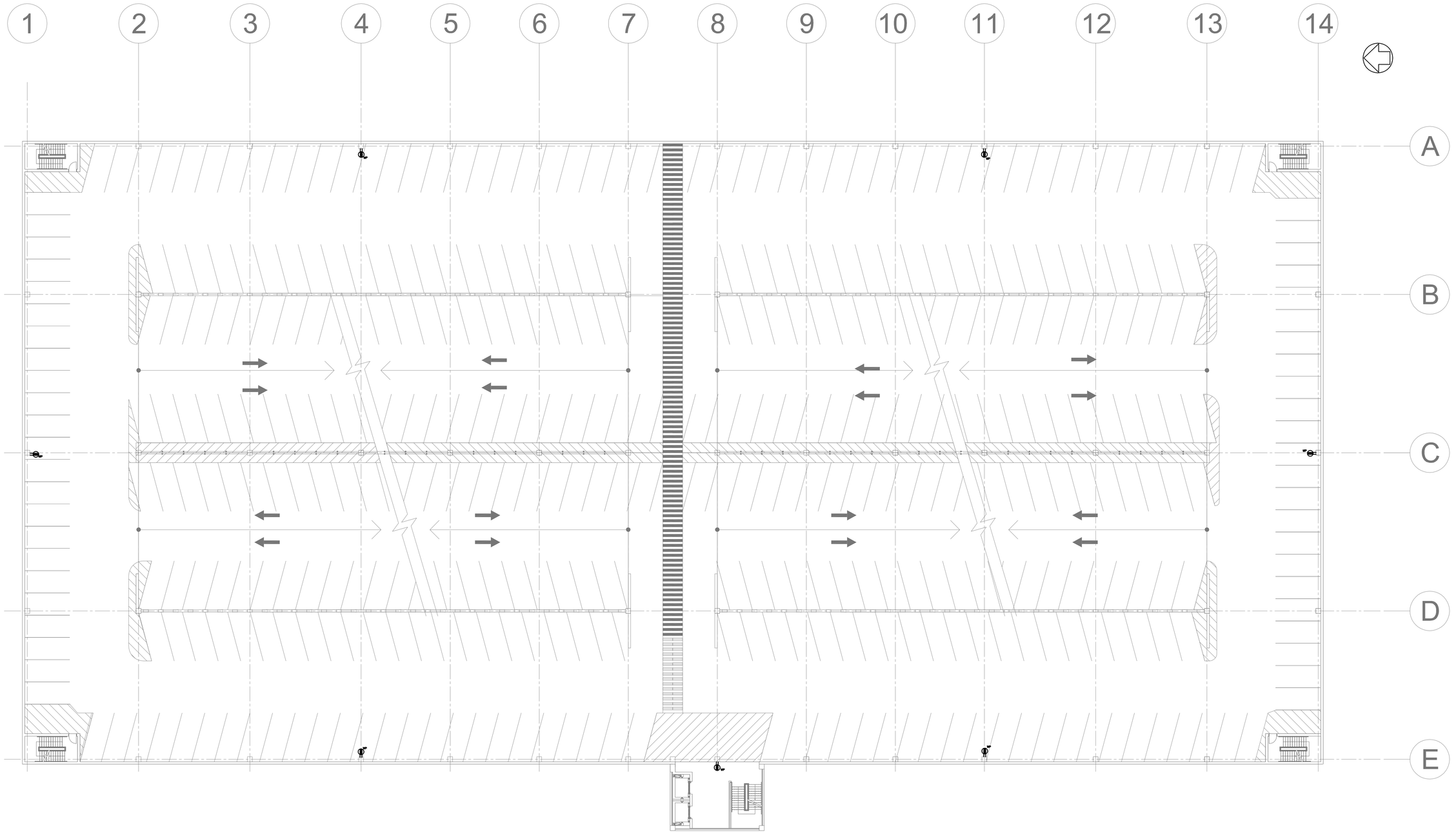
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

THIRD FLOOR POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-103	OF

September 18, 2009
O:\CE1745A\ELEC\E-103 THIRD FLOOR POWER PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

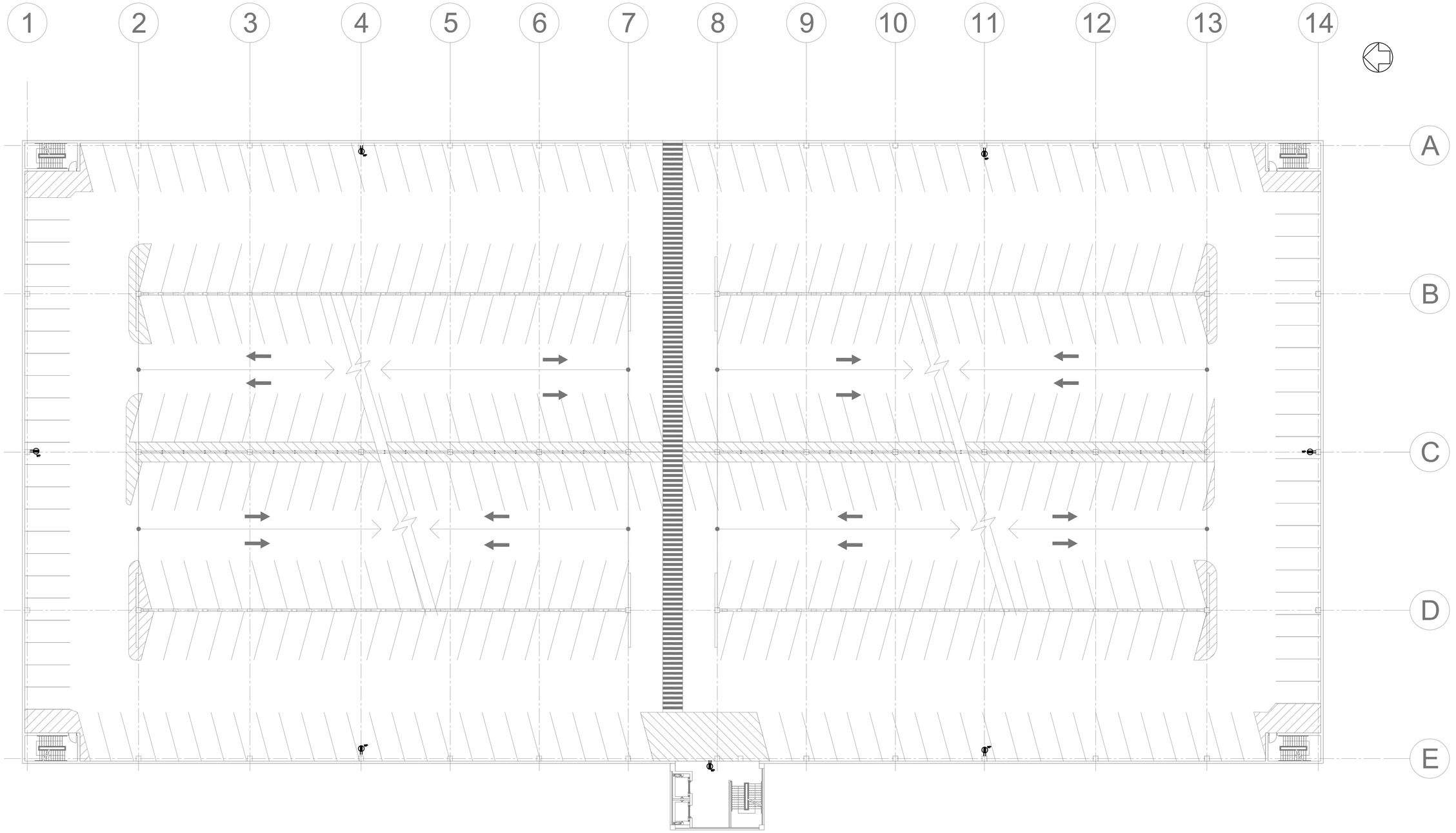
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FOURTH FLOOR POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-104	OF

September 18, 2009
O:\GET\48A\ELEC\E-104 FOURTH FLOOR POWER PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

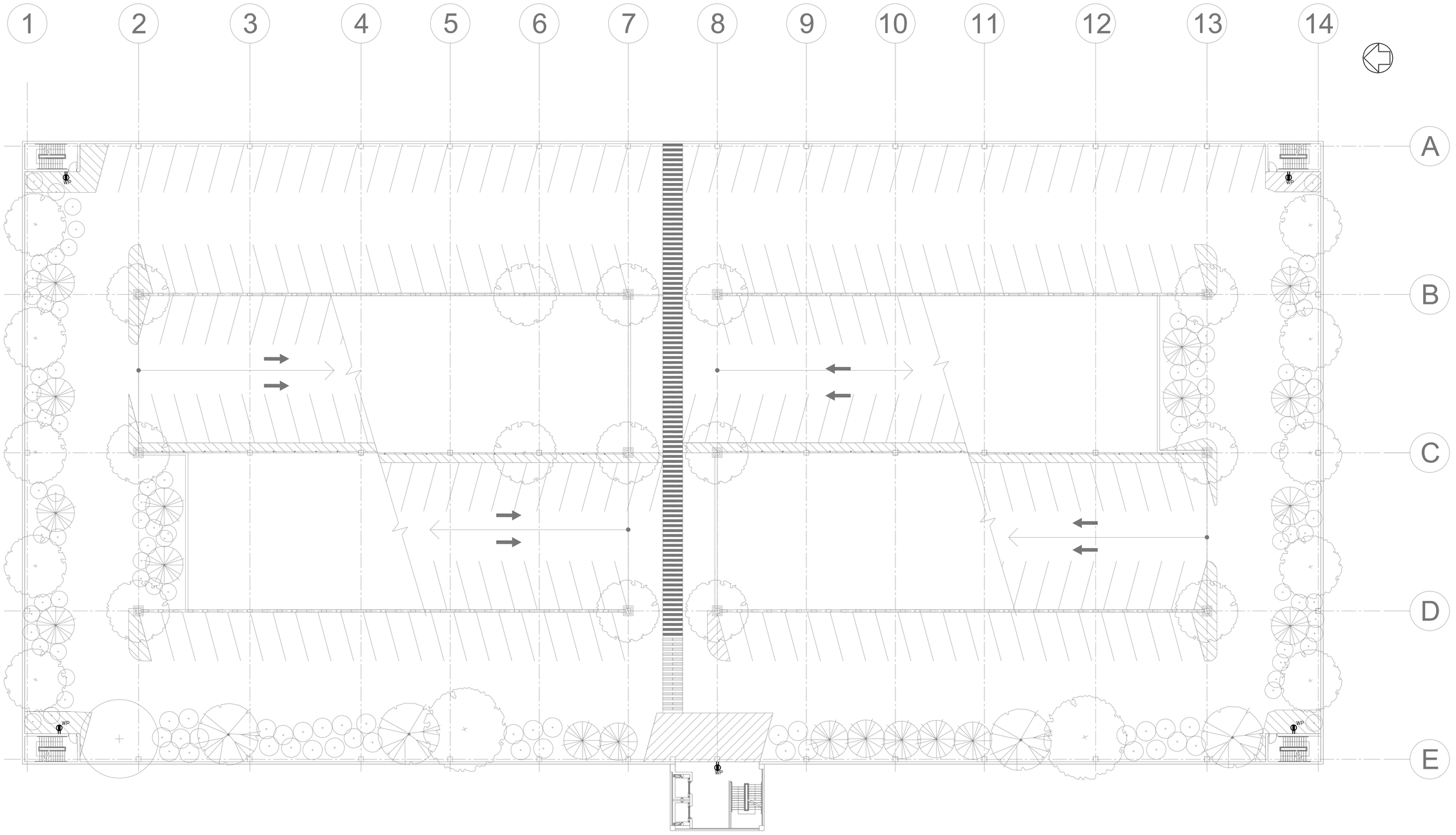
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIFTH FLOOR POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-105	OF

September 18, 2009
O:\CE1748A\ELEC\E-105 FIFTH FLOOR POWER PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

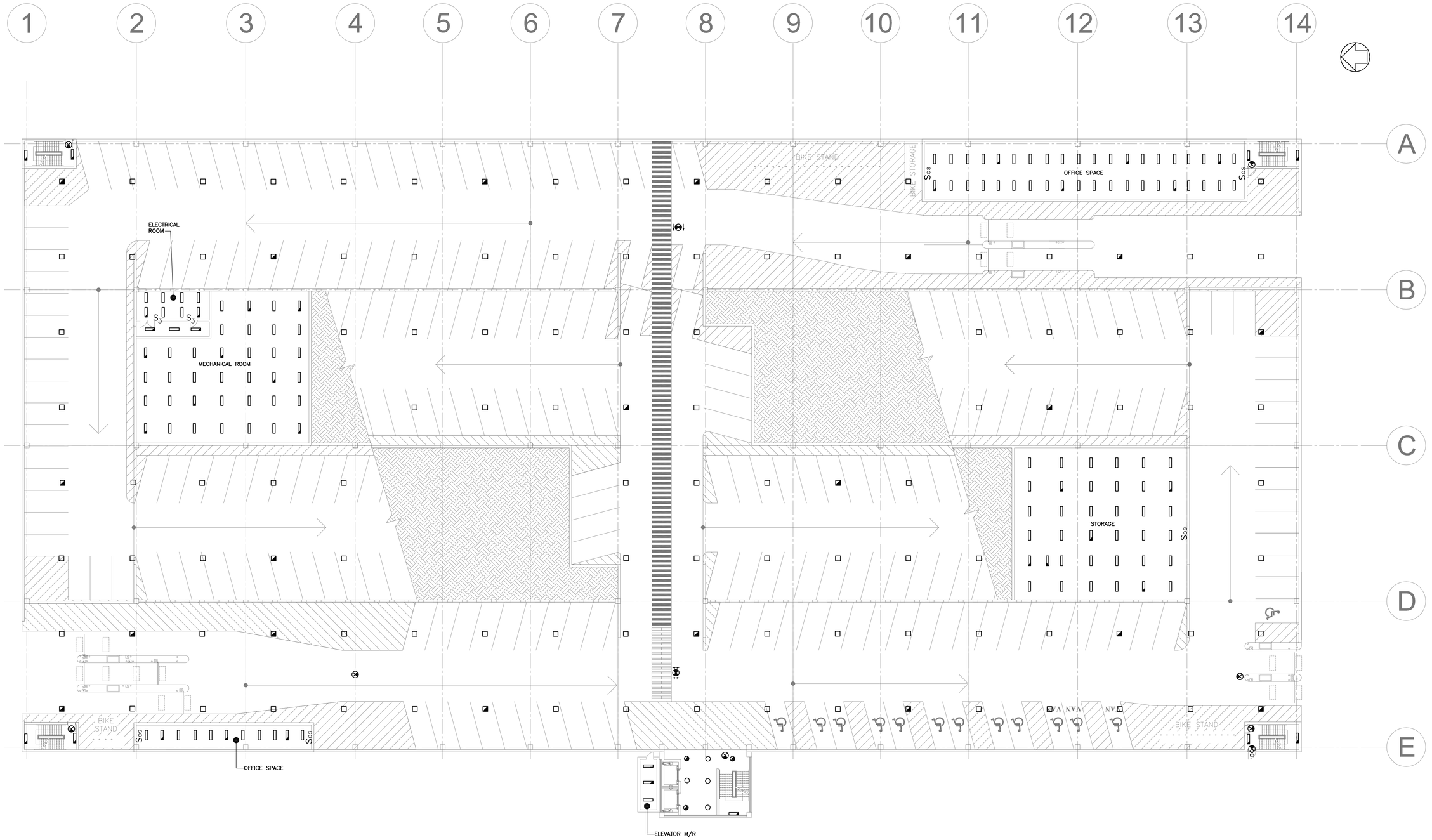
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ROOF POWER PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-106	OF

September 18, 2009
O:\CE1745A\ELEC\E-105 ROOF POWER PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

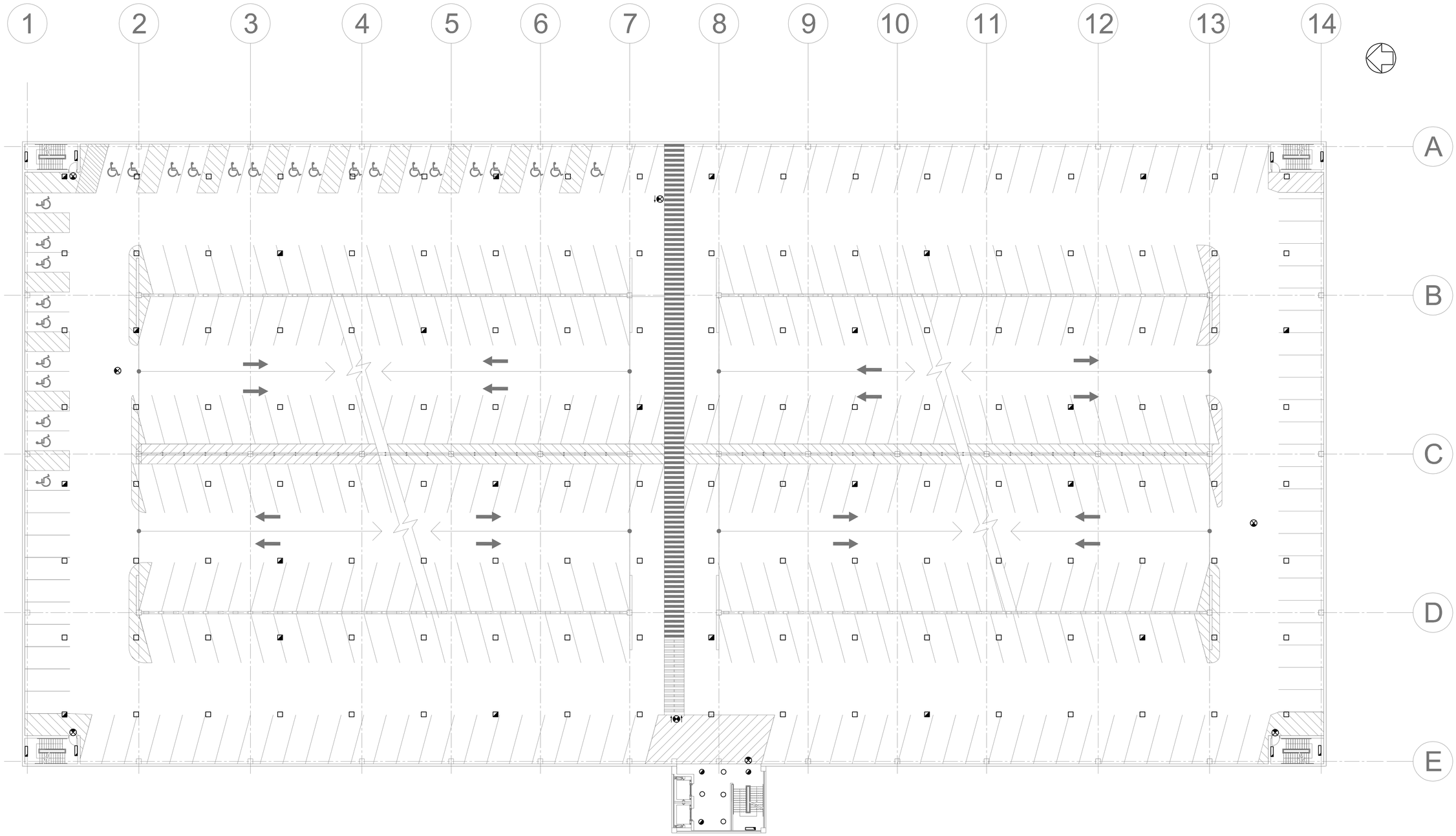
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIRST FLOOR LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-201	OF

September 18, 2009
O:\CE1745A\ELEC\E-201 FIRST FLOOR LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

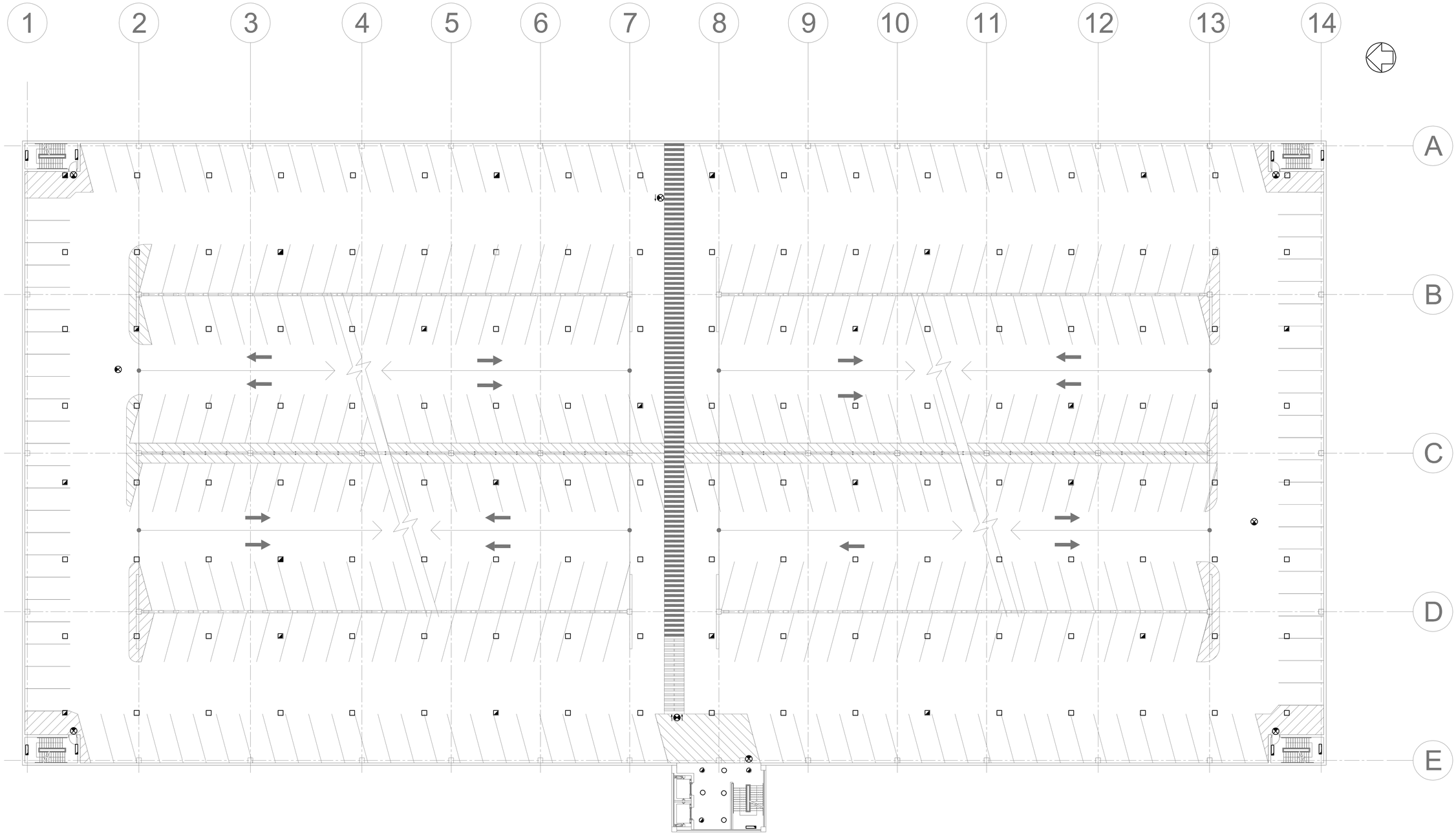
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SECOND FLOOR LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-202	OF

September 18, 2009
O:\GET748A\ELEC\E-202 SECOND FLOOR LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: PAB

DRAWN BY: EAO

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

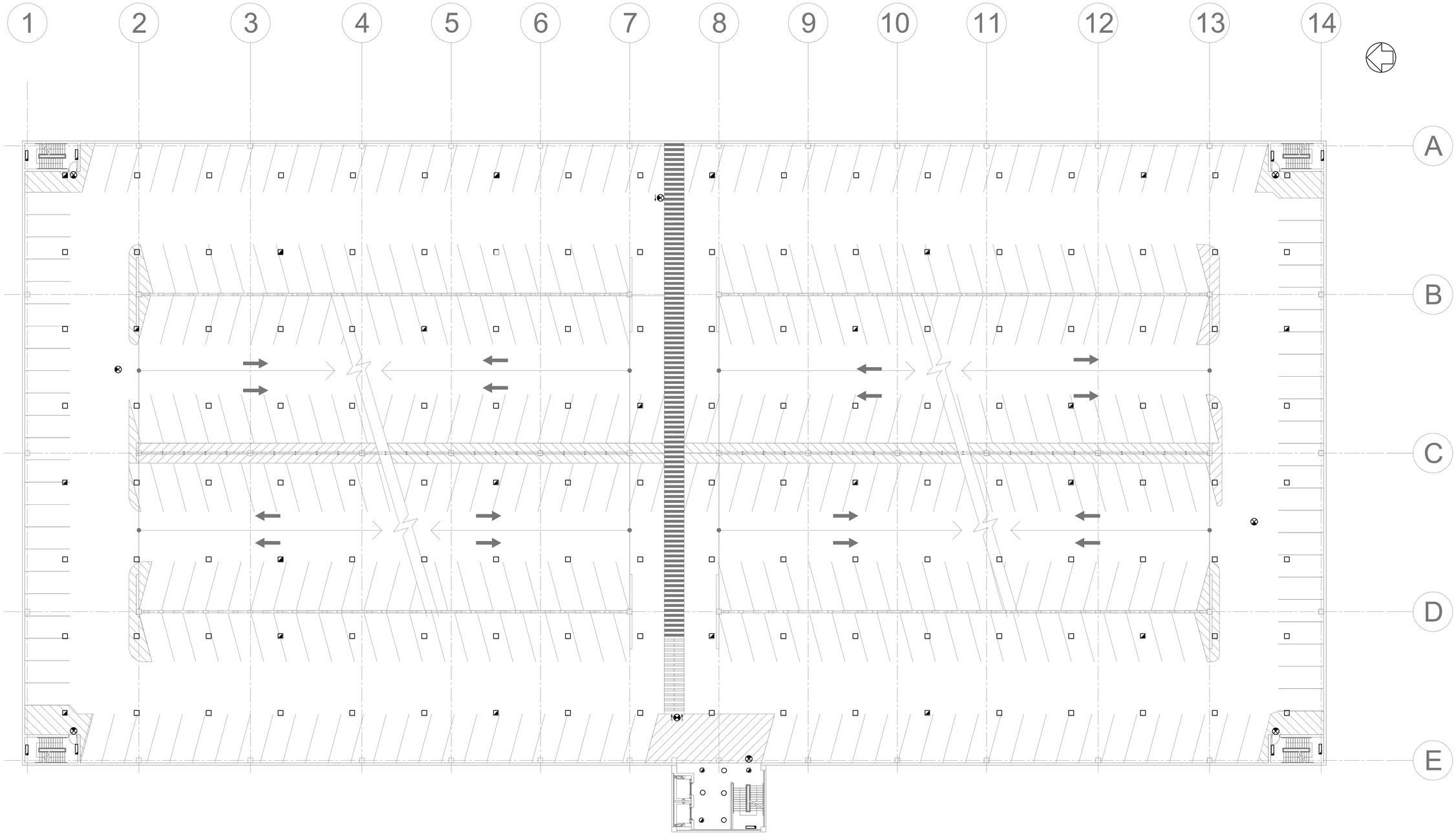
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

THIRD FLOOR LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-203	OF

September 18, 2009
O:\CE1745A\ELEC\E-203 THIRD FLOOR LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

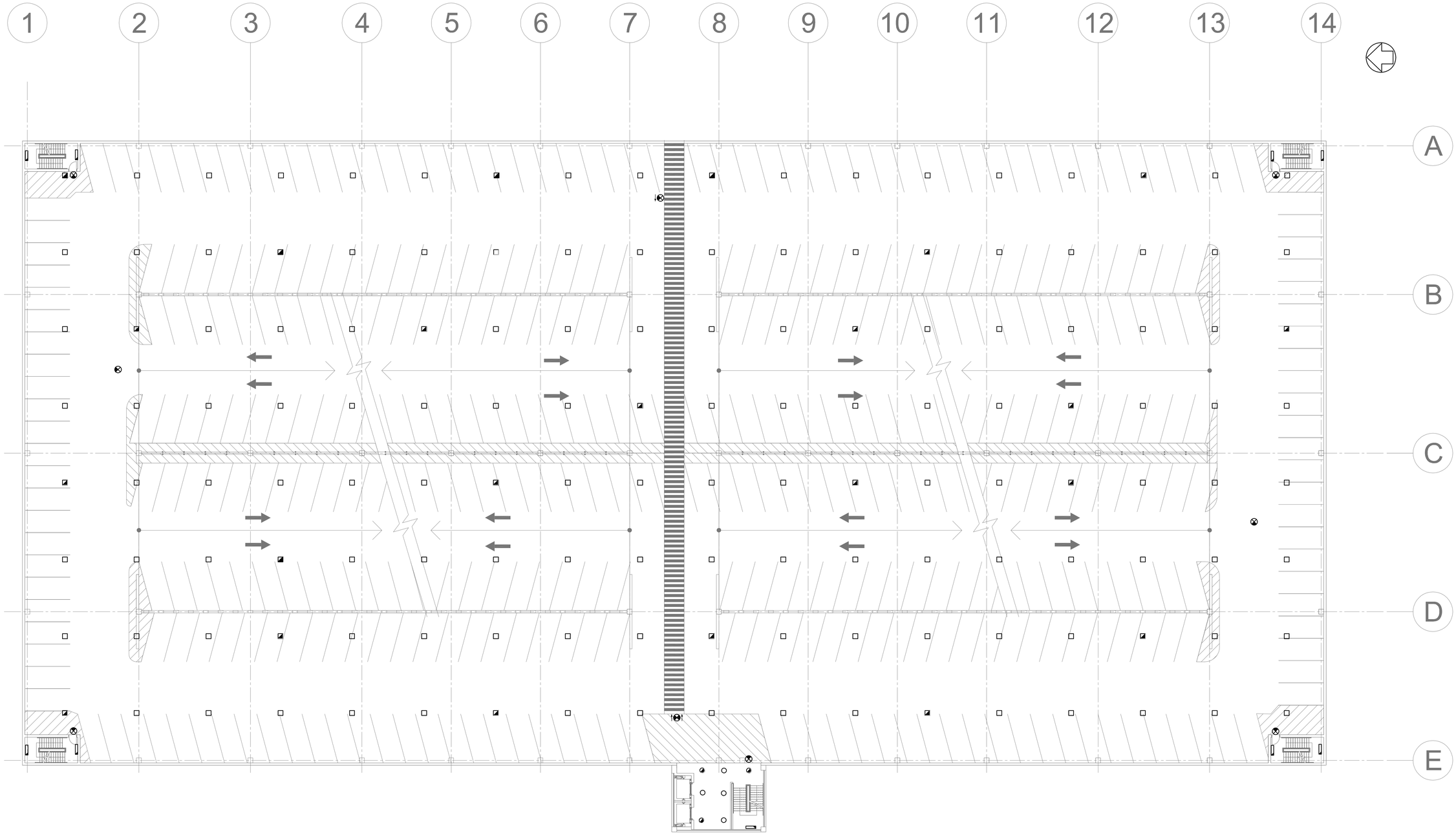
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FOURTH FLOOR LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-204	OF

September 18, 2009
O:\GET745A\ELEC\E-4001 FOURTH FLOOR LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY:

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY:

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

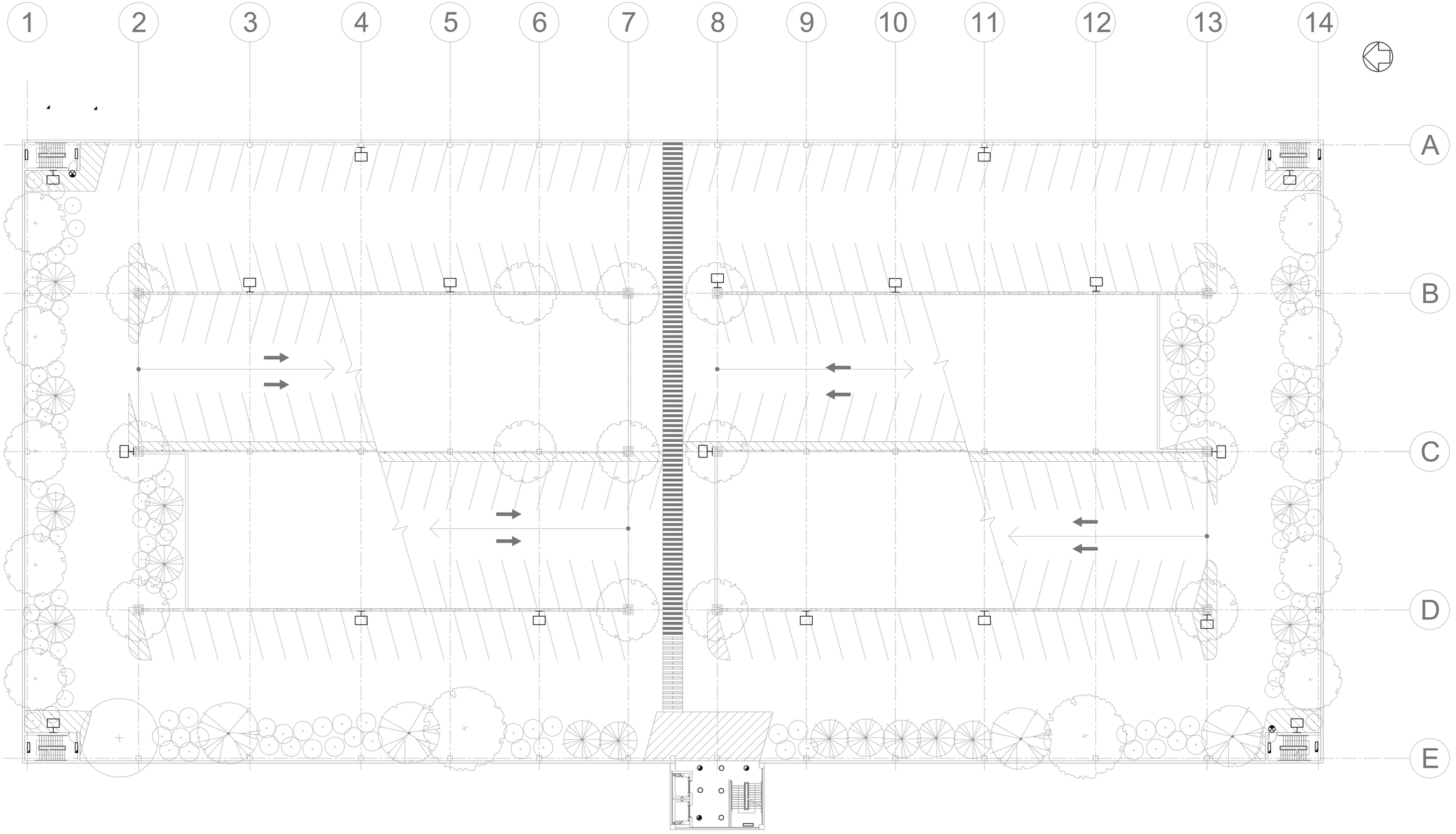
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIFTH FLOOR LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-205	OF

September 18, 2009
O:\CE1745A\ELEC\E-502 FIFTH FLOOR LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

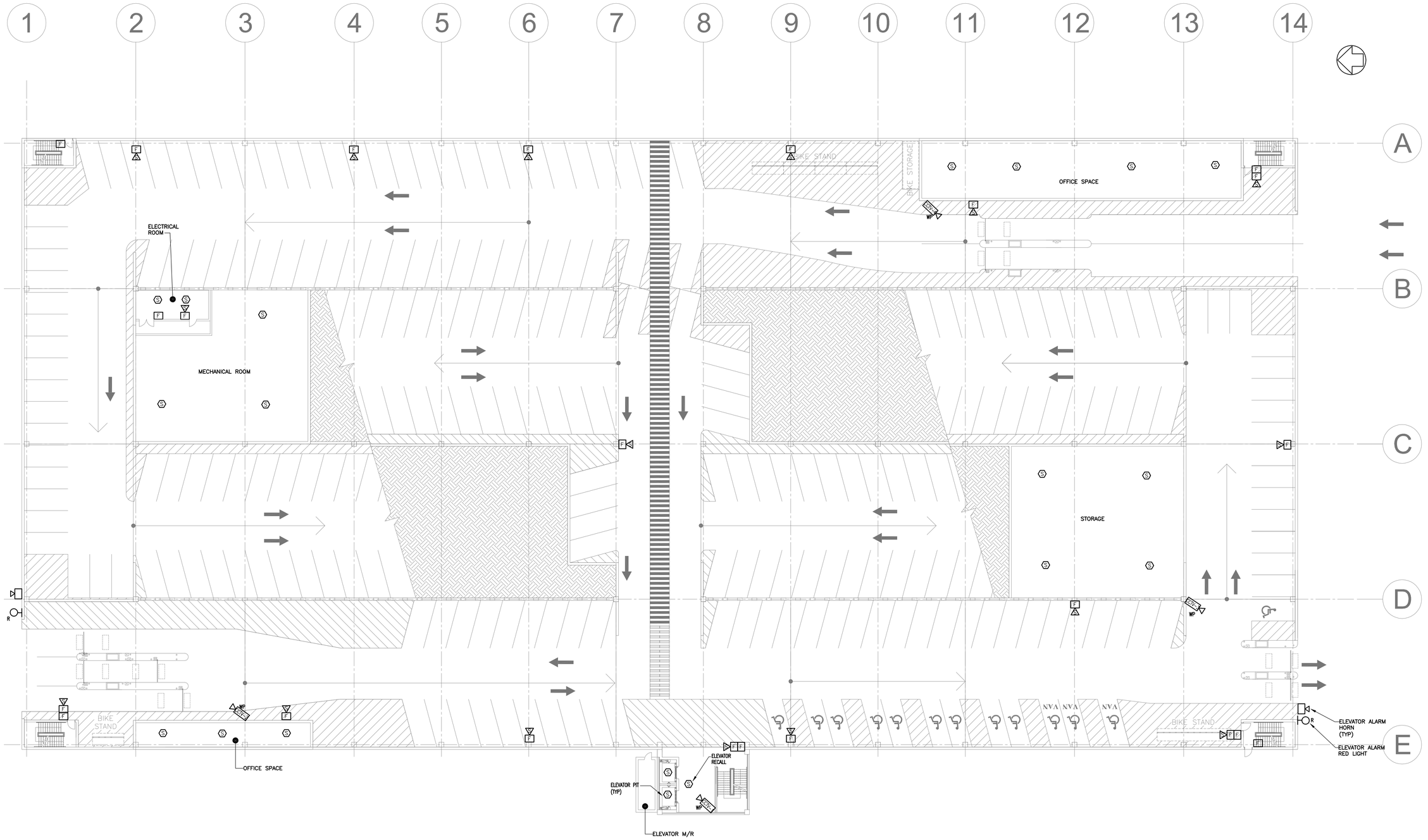
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ROOF LIGHTING PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-206	OF

September 18, 2009
O:\CE1745A\ELEC\E-602 ROOF LIGHTING PLAN.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

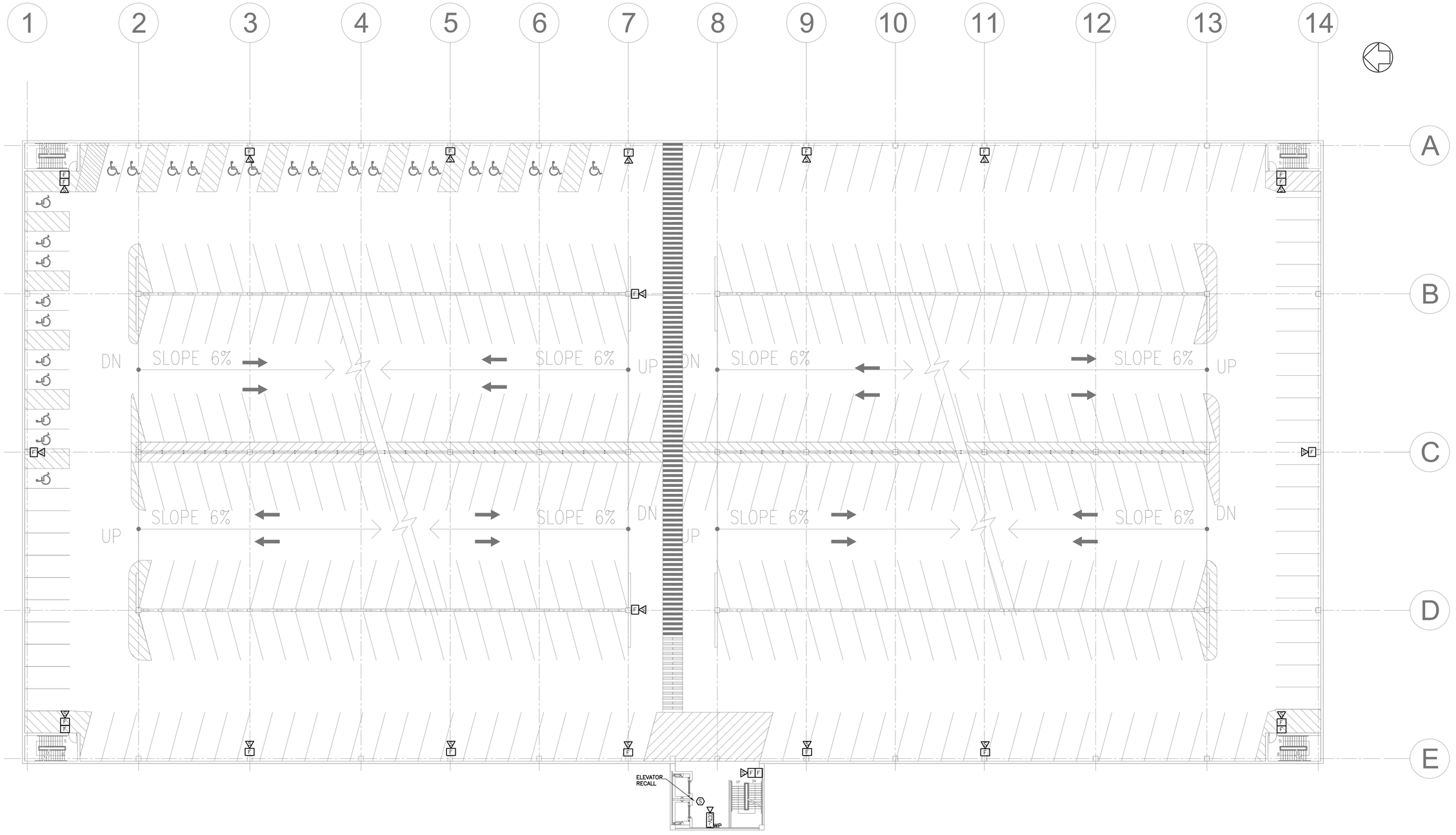
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIRST FLOOR FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-301	OF

September 19, 2009
O:\CE1745A\ELEC\E-301 FIRST FLOOR FIRE ALARM SYSTEMS.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

September 18, 2009
O:\GET748A\ELEC\E-302 SECOND FLOOR FIRE ALARM SYSTEMS.dwg

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

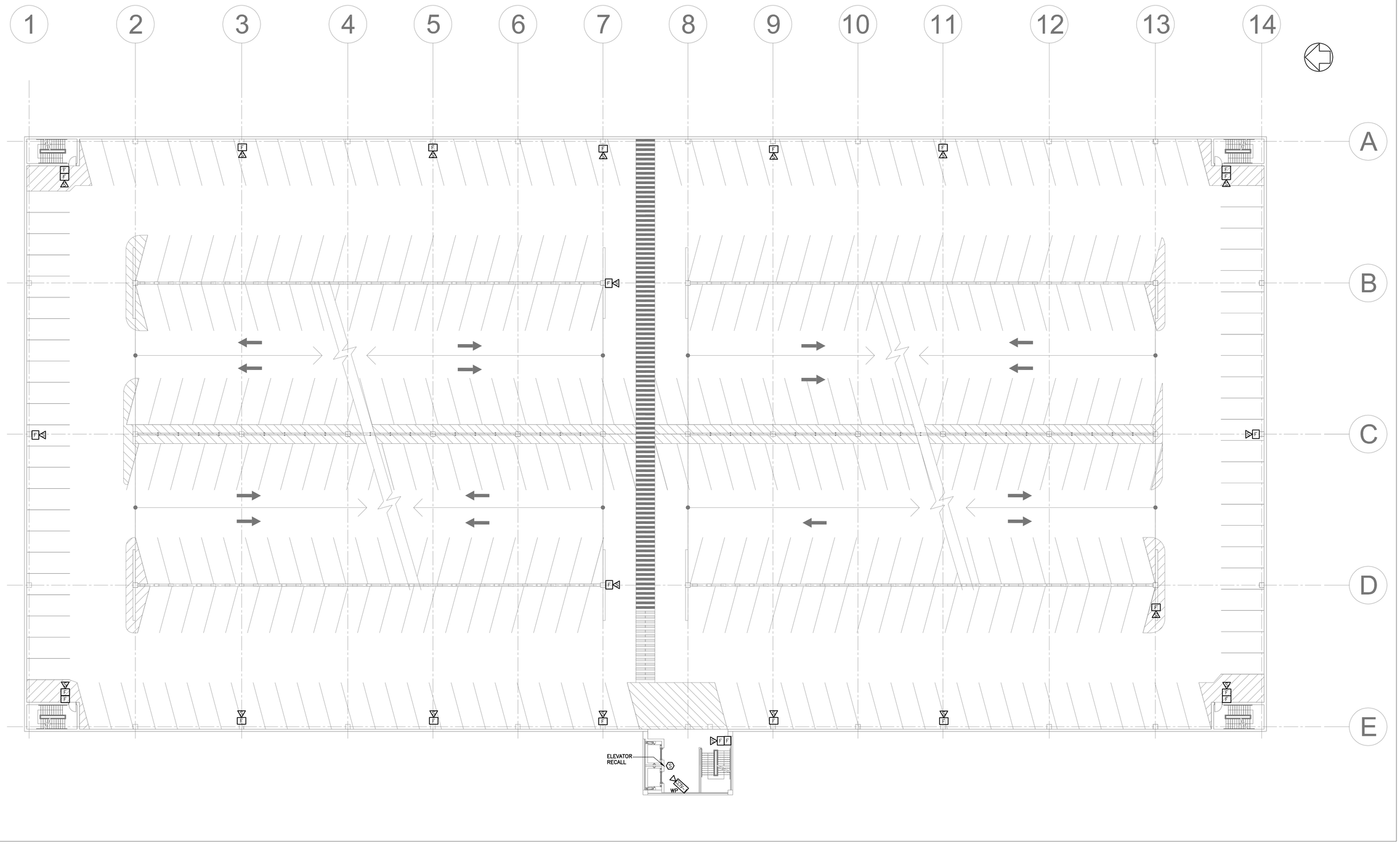
STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SECOND FLOOR FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-302	OF



1/16"=1'-0" 16 8 0 16

DESIGNED BY:

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY:

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

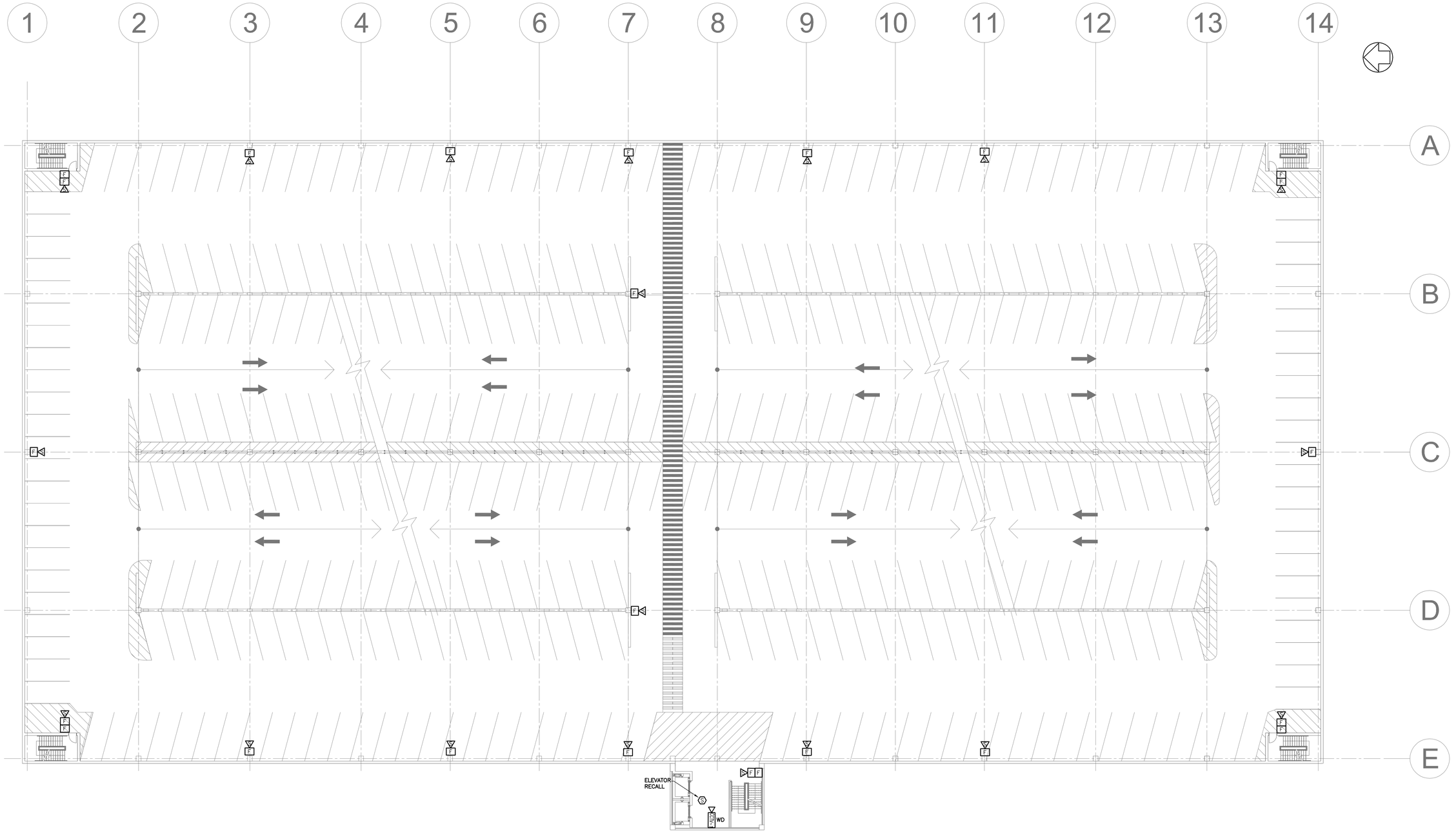
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

THIRD FLOOR FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-303	OF

September 18, 2009
O:\CE1745A\ELEC\E-303 THIRD FLOOR FIRE ALARM SYSTEMS.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY: _____

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY: _____

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

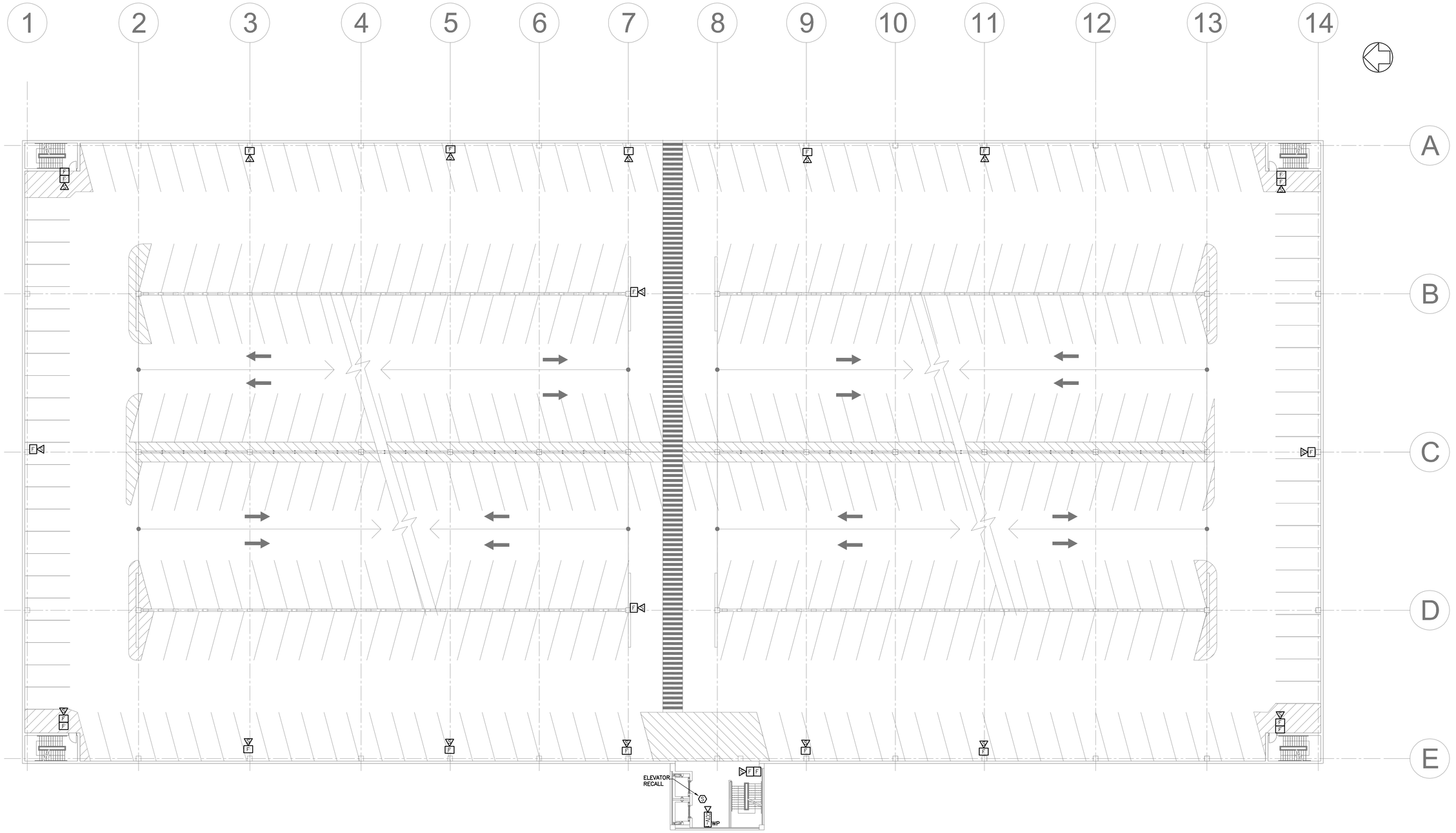
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FOURTH FLOOR FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-304	OF

September 18, 2009
O:\GET748A\ELEC\E-403 FOURTH FLOOR FIRE ALARM SYSTEMS.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY:

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY:

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

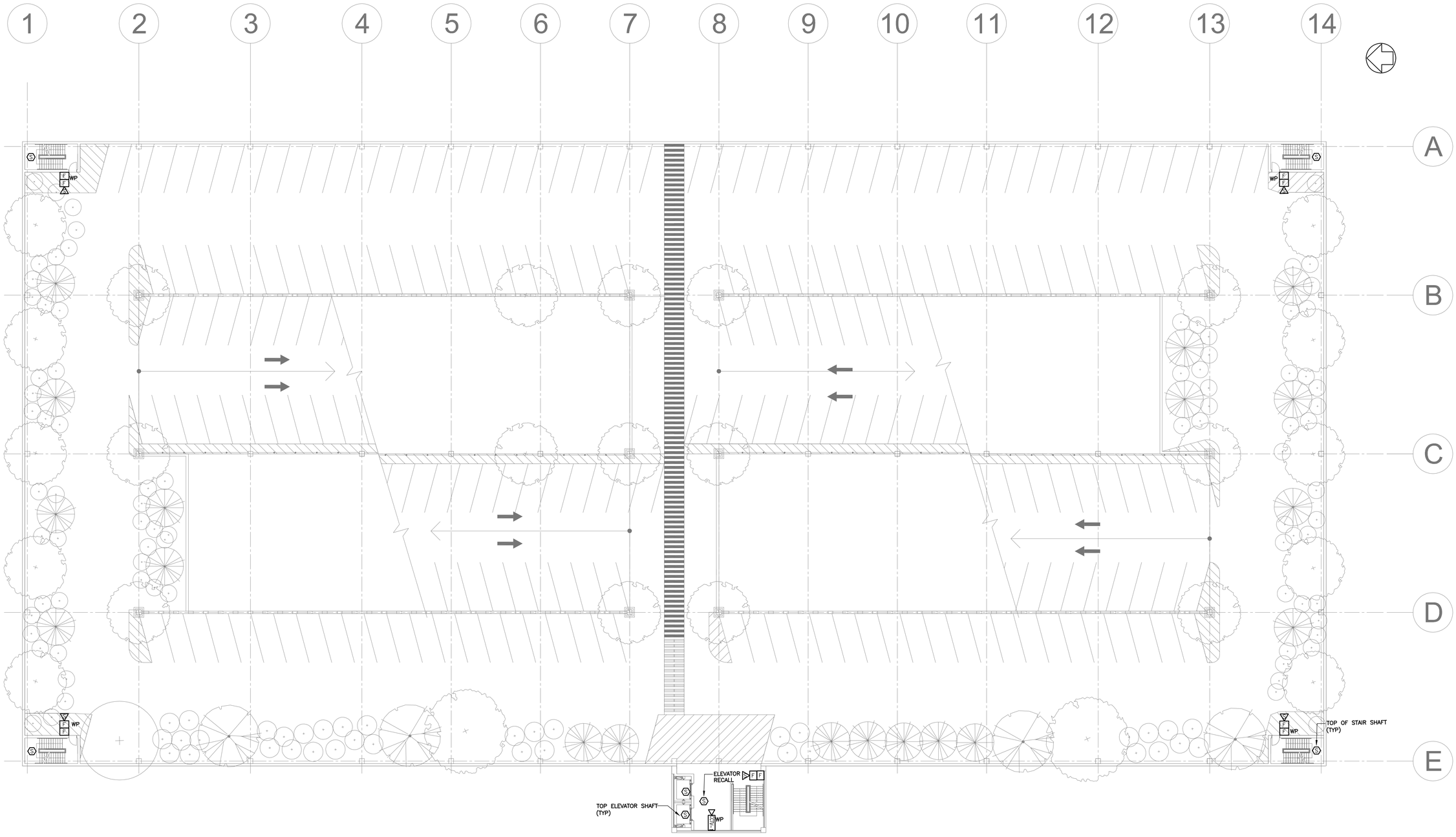
CAMERON ENGINEERING & ASSOCIATES, LLP

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

FIFTH FLOOR FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-305	OF

September 18, 2009
O:\CE1748A\ELEC\E-503 FIFTH FLOOR FIRE ALARM SYSTEMS.dwg



1/16"=1'-0" 16 8 0 16

DESIGNED BY:

CHECKED BY: RW

DRAWN BY: RB

COMPARED BY:

SEPARATELY BOUND SPECIFICATIONS ARE PART OF THIS CONTRACT

PROGRESS ONLY NOT FOR CONSTRUCTION

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

CAMERON ENGINEERING & ASSOCIATES, LLP

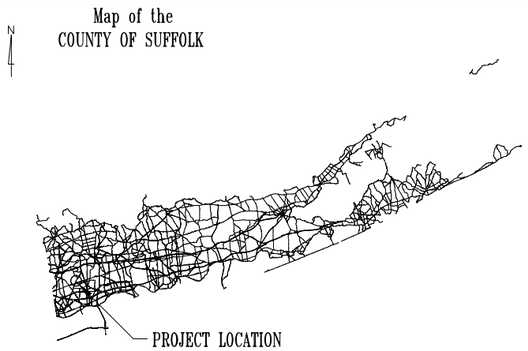
THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

ROOF FIRE ALARM SYSTEMS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	AS NOTED	E-306	OF

September 18, 2009
O:\CE1745A\ELEC\E-603 ROOF FIRE ALARM SYSTEMS.dwg

Preliminary Street and Plaza Design Drawings



AREA OF NEW ROADWAY NETWORK AND STREET IMPROVEMENTS AND ROADWAYS ALONG STRAIGHT PATH, FROM THE VICINITY OF THE LONG ISLAND RAILROAD TO THE VICINITY OF NICOLLS ROAD, FOR A TOTAL DISTANCE OF APPROXIMATELY 2334 L.F. OF STRAIGHT PATH AND WITHIN A 26 ACRE SITE BOUNDED BY STRAIGHT PATH AND THE LONG ISLAND RAILROAD IN THE HAMLET OF WYANDANCH, OF THE TOWN OF BABYLON, SUFFOLK COUNTY, NEW YORK.

TOWN OF BABYLON
OFFICE OF GENERAL SERVICES

PRELIMINARY PLANS
30% SUBMISSION
MARCH 3, 2010

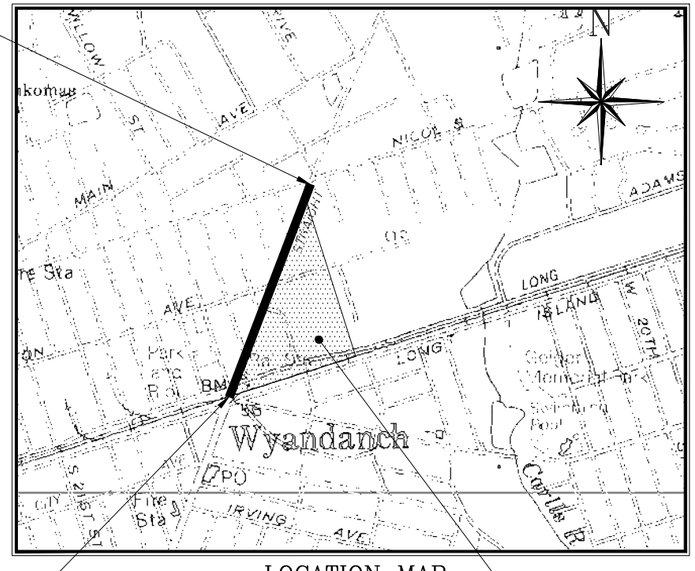
PLANS SHOWING THE PRELIMINARY DESIGN
OF
WYANDANCH INTERMODAL TRANSIT FACILITY

ROADWAYS ALONG STRAIGHT PATH, FROM THE VICINITY OF THE LONG ISLAND RAILROAD TO THE VICINITY OF NICOLLS ROAD IN THE HAMLET OF WYANDANCH, OF THE TOWN OF BABYLON, SUFFOLK COUNTY, N. Y.

FTA EARMARK PROJECT E2007-BUSP-0453
P.I.N. X
LENGTH OF CONTRACT: 0.42 MILES
AREA OF NEW ROADWAY NETWORK AND STREET IMPROVEMENTS: 26 ACRES

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL BE COVERED BY AND IN CONFORMITY WITH THE SPECIFICATIONS ADOPTED NOV. 1, 1968 AS AMENDED BY THE COMMISSIONER OF PUBLIC WORKS OF THE COUNTY OF SUFFOLK, N.Y. AND ENTITLED "PUBLIC WORKS SPECIFICATIONS" AS WELL AS THE "GENERAL SPECIFICATIONS FOR TRAFFIC SIGNAL INSTALLATION, DATED 1980, AND THE ADDENDUM DATED JULY 1991" EXCEPT AS MODIFIED ON THIS PLAN AND IN THE PROPOSAL.

END OF PROJECT: APPROXIMATE STA 37+11
END OF CONTRACT: STA 45+00



LOCATION MAP
N.T.S

26 ACRES

BEGINNING OF PROJECT: APPROXIMATE STA 13+75
BEGINNING OF CONTRACT: STA 05+00

PREPARED UNDER ARTICLE 6 – SECTION 116 OF THE HIGHWAY LAW

LETTING DATE: _____

CONTRACTOR: _____

ENGINEER IN CHARGE: _____

COMPLETION DATE: _____

APPROVED BY: _____ DATE: _____
STEVE BELLONE – SUPERVISOR

PREPARED AND RECOMMENDED BY:
The RBA Group ENGINEERS ARCHITECTS PLANNERS
48 MARCUS DRIVE, SUITE 3H1 MELVILLE NY 11747
TEL (631) 694-3191 FAX (631) 694-3884 www.rbagroup.com

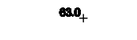
APPROVED BY: _____ DATE: _____
LINDA REARDON, P.E. – NYSPE Lic. No. 069524

DESIGNED BY: A. FOX, P.E.
CHECKED BY: S. NORMANDIN P.E.
DRAWN BY: A. FOX, P.E.
COMPARED BY: S. NORMANDIN P.E.

LEGEND

EXISITING	PROPOSED	
		STOP LIGHT - PROPSED OR IMPROVEMENT
		BUILDING
		CURB AND PARKING STRUCTURE
		PROPERTY BOUNDARIES

DRAINAGE LEGEND

REMOVAL	PROPOSED	
		CATCH BASIN/LEACHING BASIN INLET
		MANHOLE
		STORM DRAIN PIPE
	63.0+	SPOT GRADE
	0.5%	STREET CENTERLINE GRADE
		STORMWATER TREE PITS

INDEX OF DRAWINGS

GENERAL PLANS

TITLE SHEET	T-1
GENERAL NOTES, LEGEND AND INDEX	G-1

CIVIL PLANS

STRAIGHT PATH TYPICAL SECTION	TS-1
KEY PLAN	KP-1
SITE AND STRIPING PLAN	SP-1 TO SP-8
ALIGNMENT, GRADING, AND DRAINAGE PLAN	AP-1 TO AP-9

LANDSCAPE PLANS

OVERALL LANDSCAPE PLANS	LP-1
TRAIN PLAZA ENLARGEMENT PLAN	LP-2
PARKING GARAGE ENLARGEMENT PLAN	LP-3
TRAIN STATION PLAZA PERSPECTIVE RENDERING-1	LR-1
TRAIN STATION PLAZA PERSPECTIVE RENDERING-2	LR-2
TRAIN PLAZA SECTIONS	LS-1
STREET SECTIONS	LS-2
STORMWATER FACILITY SECTIONS	LS-3

DESIGNED BY: A. FOX, P.E.

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COMPARED BY: S. NORMANDIN P.E.

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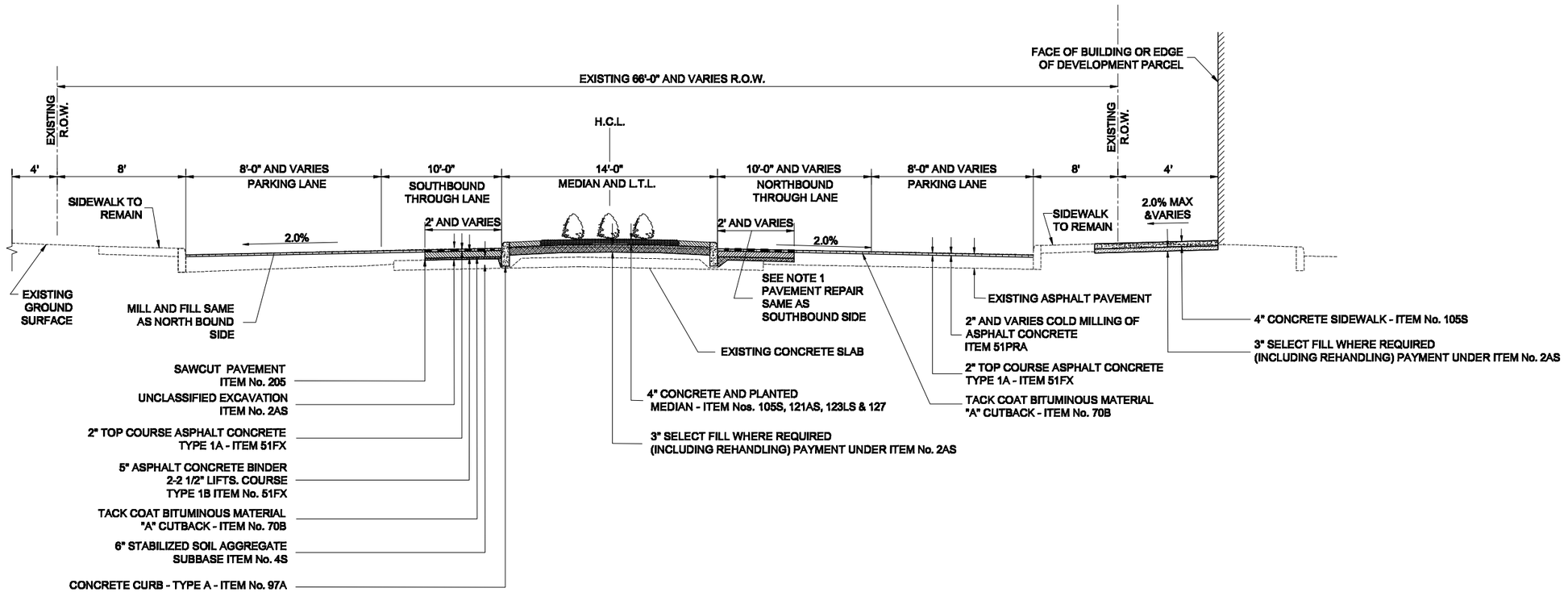
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40 MARCUS DRIVE MELVILLE, NY 11747

WYANDANCH INTERMODAL TRANSIT FACILITY

GENERAL NOTES, LEGEND, AND INDEX

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	G-1	OF



TYPICAL ROADWAY SECTION "A"

STRAIGHT PATH STA. 13+75 TO 37+11

NOTES:

1. MINIMUM PAVEMENT RECONSTRUCTION WIDTH IS TO BE TWO FEET, EXCEPT AS DESCRIBED IN NOTE TWO. IF LESS THAN TWO FEET OF WIDENING IS PROPOSED, REMOVE EXISTING ASPHALT PAVEMENT TO A WIDTH OF FOUR FEET. SEE CONSTRUCTION PLANS FOR PAVEMENT LIMIT. SAWCUT MINIMUM OF ONE FOOT FROM EXISTING EDGE OF PAVEMENT OR CURB LINE.
2. MINIUMUM PAVEMENT RECONSTRUCTION FOR CURBS TO BE REPLACED IN KIND WHERE CONSTRUCTION OF SIDEWALK HANDICAP RAMP IMPROVEMENTS AND SIDE STREET CURB RETURNS, IS TO BE TWO FEET MINIUMUM.
3. PRIOR TO ASPHALT OVERLAY RESURFACING, THE EXISTING PAVEMENT SHALL BE CLEANED, AND ASPHALT TACK COAT IS TO BE PLACED AT A RATE OF 0.05 GAL. PER SQUARE YARD OF PAVEMENT AREA.
4. SEE PROFILES FOR SPECIFIC STATION TO STATION TYPICAL SECTION LIMITS.

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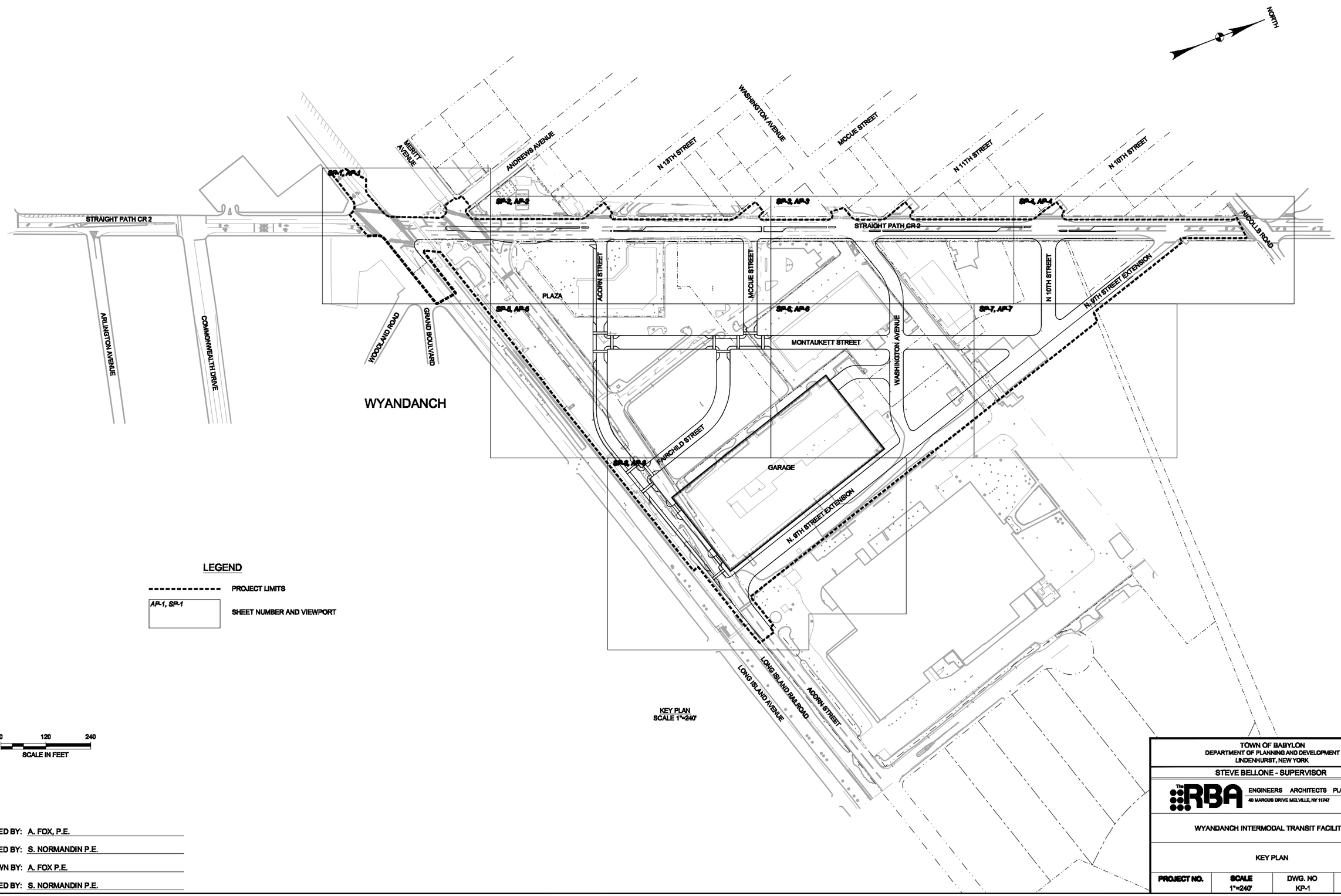
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WYANDANCH INTERMODAL TRANSIT FACILITY

STRAIGHT PATH TYPICAL SECTION
STRAIGHT PATH STATION 13+75 TO 37+11

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	TS-1	OF



KEY PLAN
SCALE 1"=240'

LEGEND

PROJECT LIMITS

AP-1, SP-1 — SHEET NUMBER AND VIEWPORT

0 120 240
SCALE IN FEET

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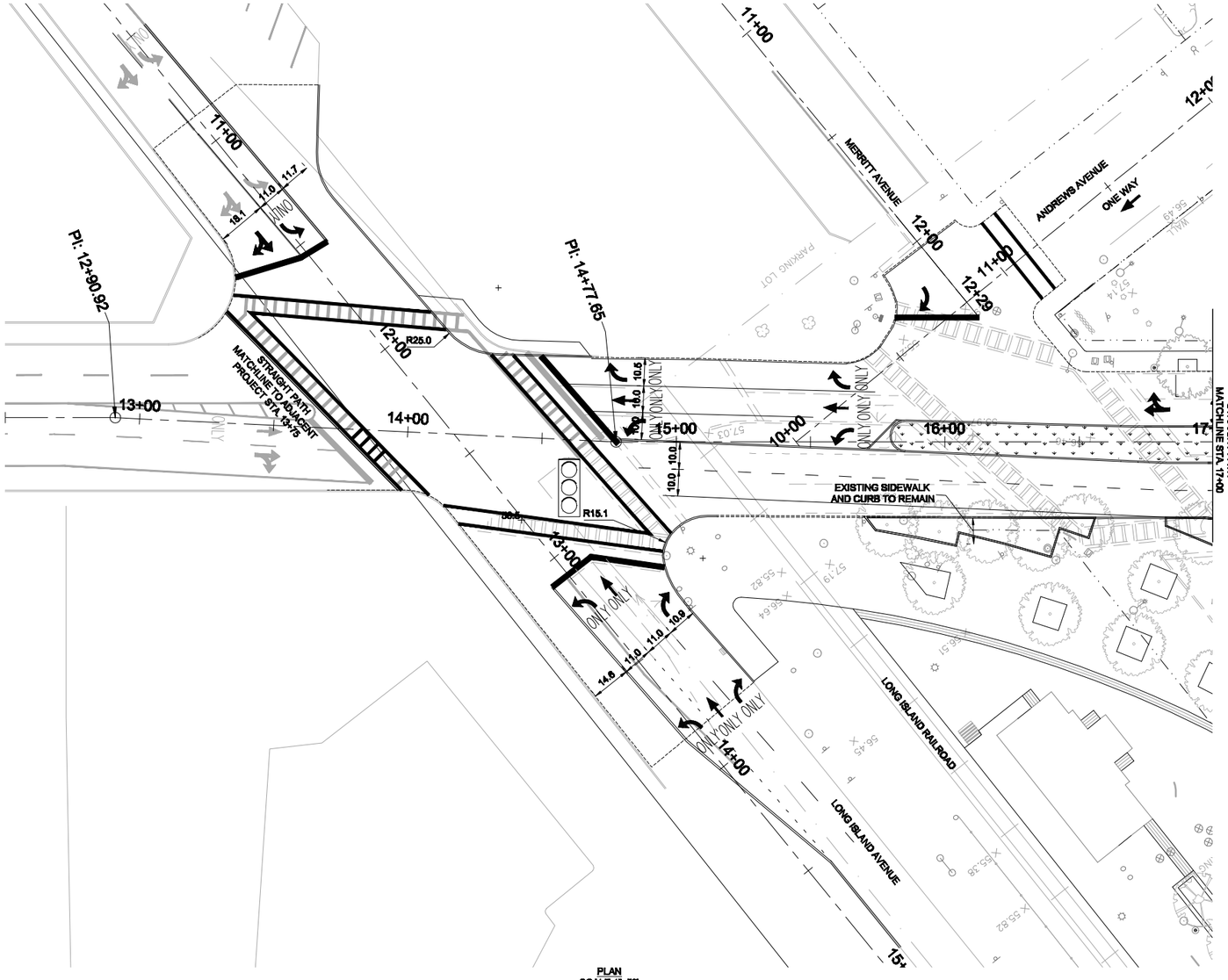
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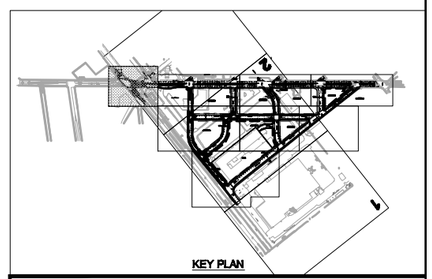
WYANDANCH INTERMODAL TRANSIT FACILITY

KEY PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=240'	KP-1	3 OF



PLAN
SCALE 1"=50'



KEY PLAN

NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 1
STRAIGHT PATH STATION 12+50 TO 17+00

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-1	OF

DETENTION BASIN TO REMAIN

NORTH

N 13TH STREET

MCCUE STREET

STRAIGHT PATH MATCHLINE STA. 17+00

STRAIGHT PATH MATCHLINE STA. 24+00

17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

STRAIGHT PATH CR 2

BUS

ONLY

EXISTING SIDEWALK AND CURB TO REMAIN

EXISTING SIDEWALK AND CURB TO REMAIN

PLAZA
APPROXIMATELY 108,000 SF = 2.43 AC

ACORN STREET

DROP OFF/PICK UP

17.0 SIDEWALK

12.0 SIDEWALK

8.0 10.0 10.0 8.0 12.0

MCCUE STREET

ACORN STREET
MATCHLINE STA. 12+00

PLAN
SCALE 1"=50'

MCCUE STREET
MATCHLINE STA. 12+00

0 25 50
SCALE IN FEET

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NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
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KEY PLAN

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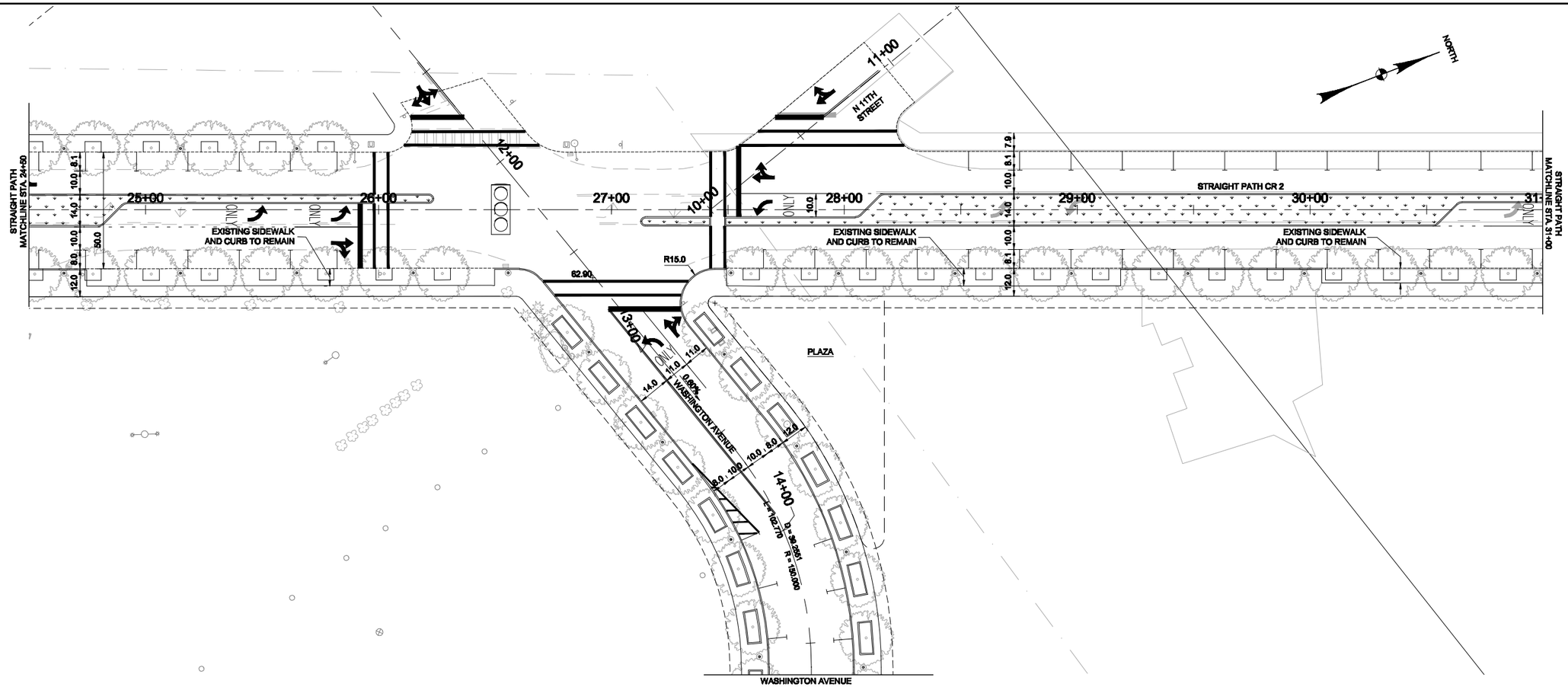
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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 2
STRAIGHT PATH STATION 17+00 TO 24+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-2	OF



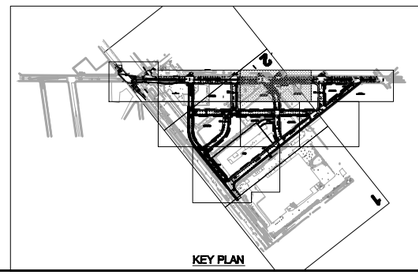
PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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KEY PLAN

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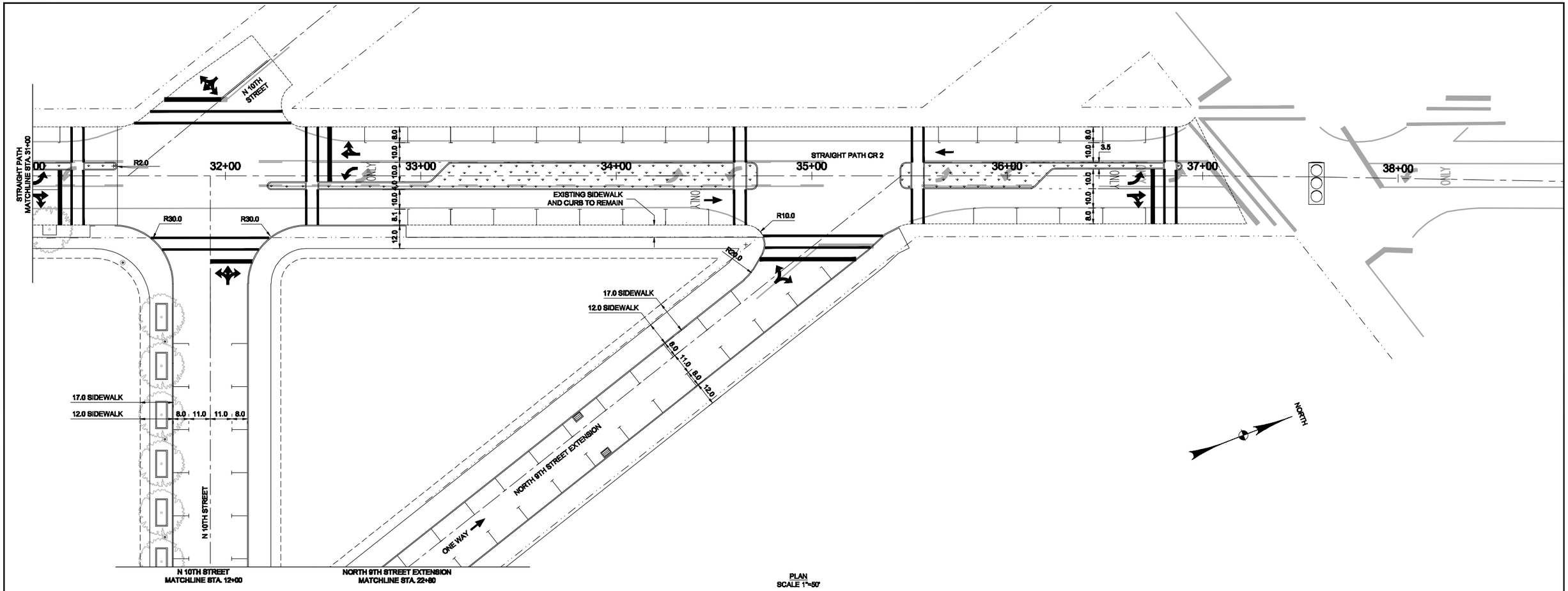
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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 3
STRAIGHT PATH STATION 24+50 TO 31+00

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-3	OF



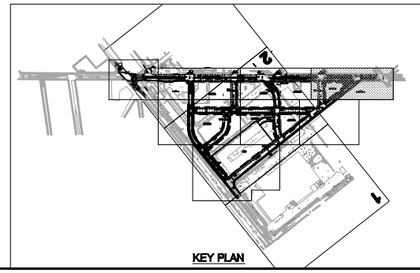
PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

NOTE:

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2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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KEY PLAN

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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 4
STRAIGHT PATH STATION 31+00 TO 38+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-4	OF

ACORN STREET
MATCHLINE STA. 12+00

MCCUE STREET
MATCHLINE STA. 12+00

NORTH

MCCUE STREET

STOP

MONTAUKETT STREET

MONTAUKETT STREET
MATCHLINE STA. 14+57

STOP

FAIRCHILD STREET

17.0 SIDEWALK
12.0 SIDEWALK

8.0 10.0 10.0 8.0 12.0

12.0 8.0 10.0 10.0 8.0 12.0

STOP

DROP OFF/PICK UP

ACORN STREET

PLAN
SCALE 1"=50'

FAIRCHILD STREET

ACORN STREET
MATCHLINE STA. 16+31

FAIRCHILD STREET
MATCHLINE STA. 10+66

PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

KEY PLAN

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WYANDANCH INTERMODAL TRANSIT FACILITY

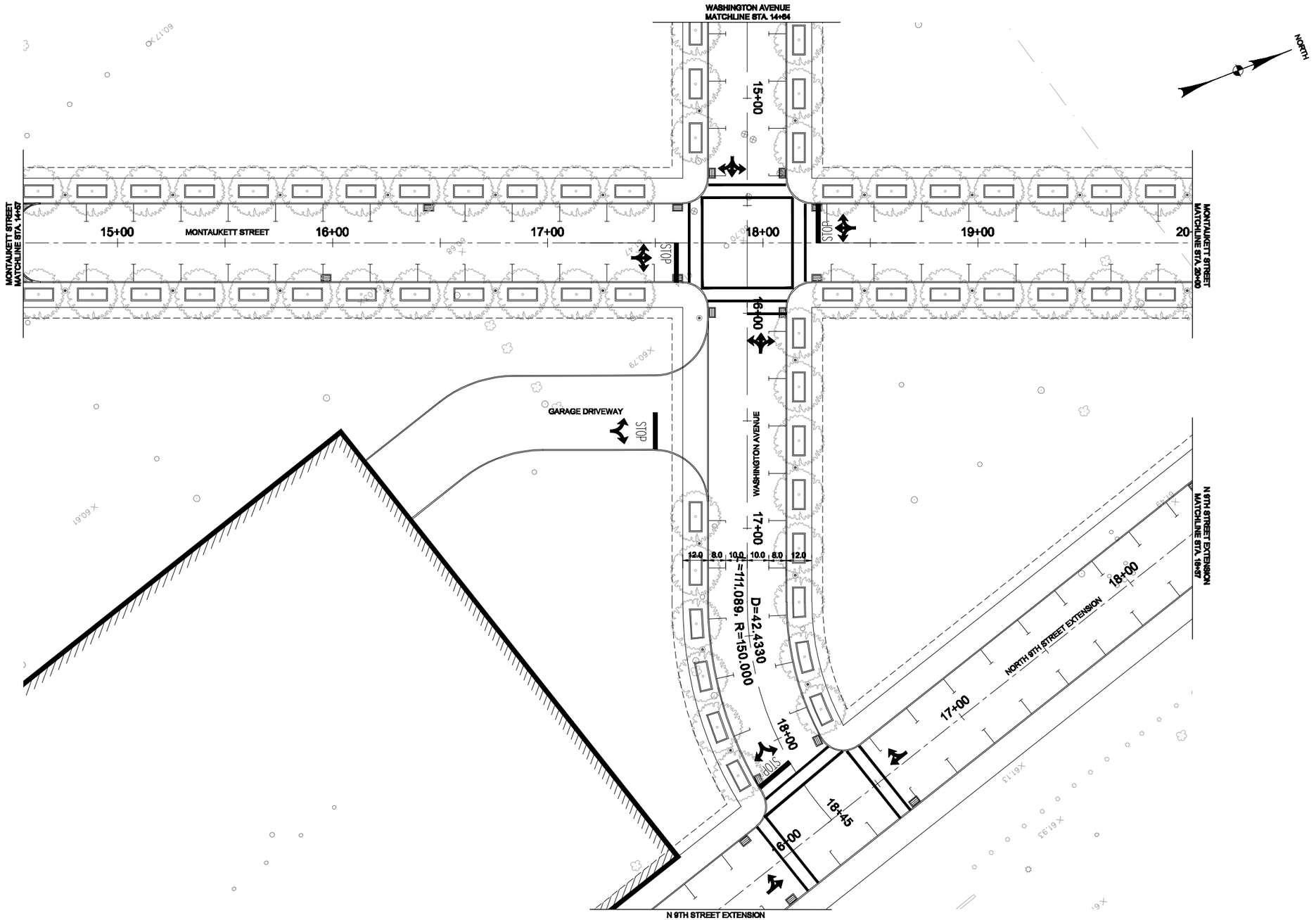
SITE AND STRIPING PLAN - 5
MONTAUKETT STREET STATION 10+00 TO 14+57

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-5	OF

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CHECKED BY: S. NORMANDIN P.E.
DRAWN BY: A. FOX P.E.
COMPARED BY: S. NORMANDIN P.E.

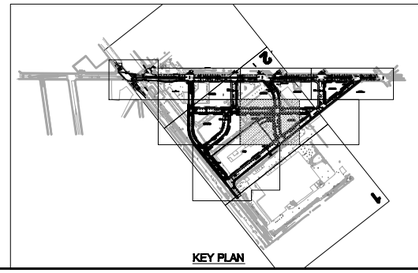
NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES



PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET



KEY PLAN

NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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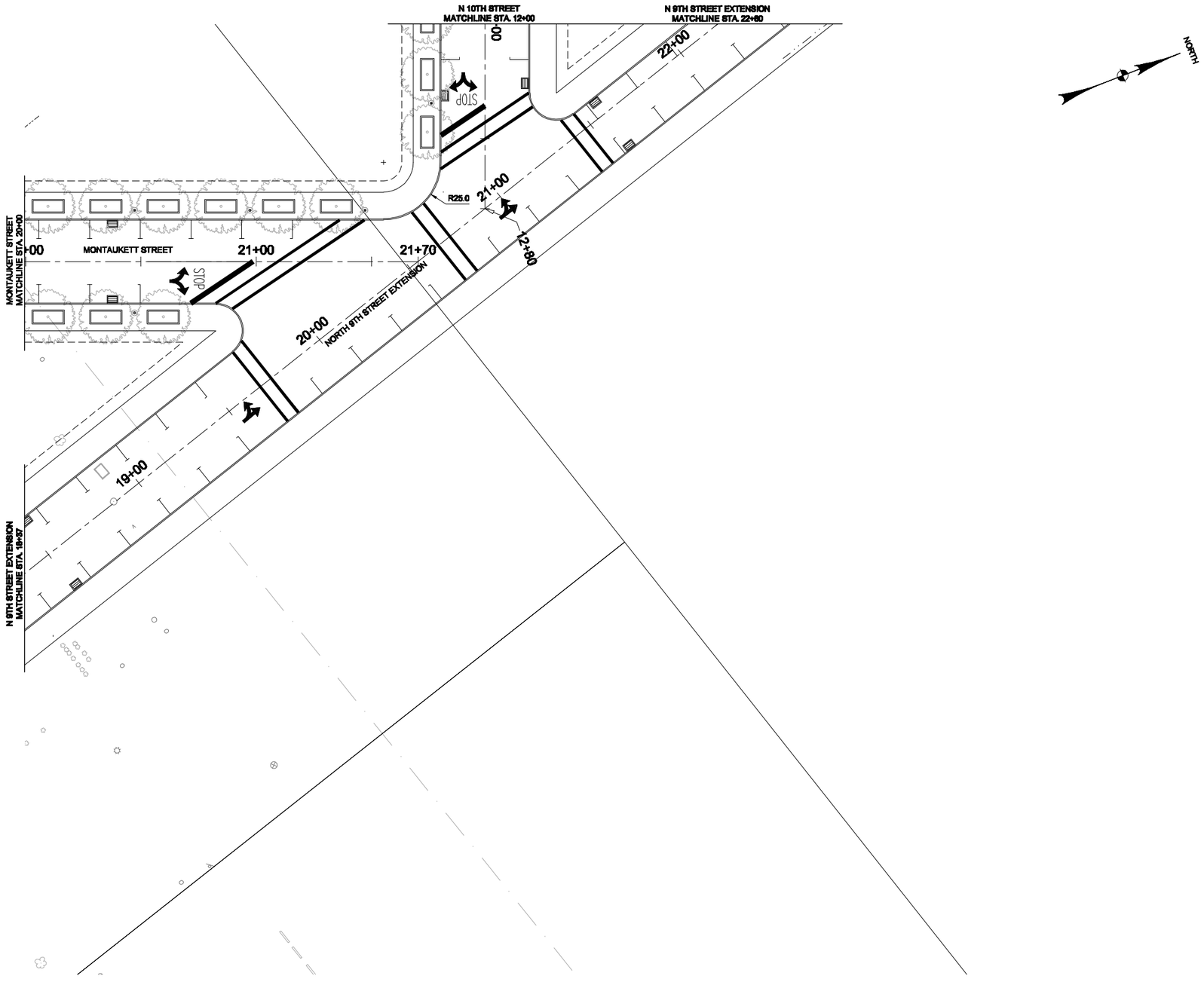
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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 6
MONTAUKETT STREET STATION 14+57 TO 20+00

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-6	OF



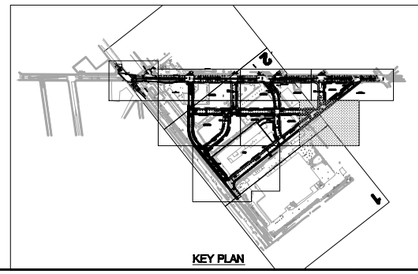
PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

NOTE:

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2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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KEY PLAN

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WYANDANCH INTERMODAL TRANSIT FACILITY

SITE AND STRIPING PLAN - 7
TRUCK STREET STATION 18+37 TO 22+80

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-7	OF

ACORN STREET
MATCHLINE STA. 16+31

FAIRCHILD STREET
MATCHLINE STA. 10+86

N 9TH STREET EXTENSION
MATCHLINE STA. 15+97

PARKING GARAGE
FF ELEVATION = 69.0
132,669 SF = 3.04 AC

NORTH

17.0 SIDEWALK
12.0 SIDEWALK

STOP

DROP CITYROCK LIP

NORTH 9TH STREET EXTENSION

ACORN STREET

10+00
11+00
12+00
13+00
14+00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00

R30.0

12.1 | 5.0 | 10.0 | 12.0 | 12.0

8.0 | 11.0 | 8.0 | 12.0 | 24.0 | TO PROPERTY LINE

0 25 50
SCALE IN FEET

PLAN
SCALE 1"=50'

NOTE:

1. PROPOSED CORNER RADII 12' UNLESS NOTED
2. APPROXIMATELY 450 8'X22' PARALLEL ON STREET PARKING SPACES

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KEY PLAN

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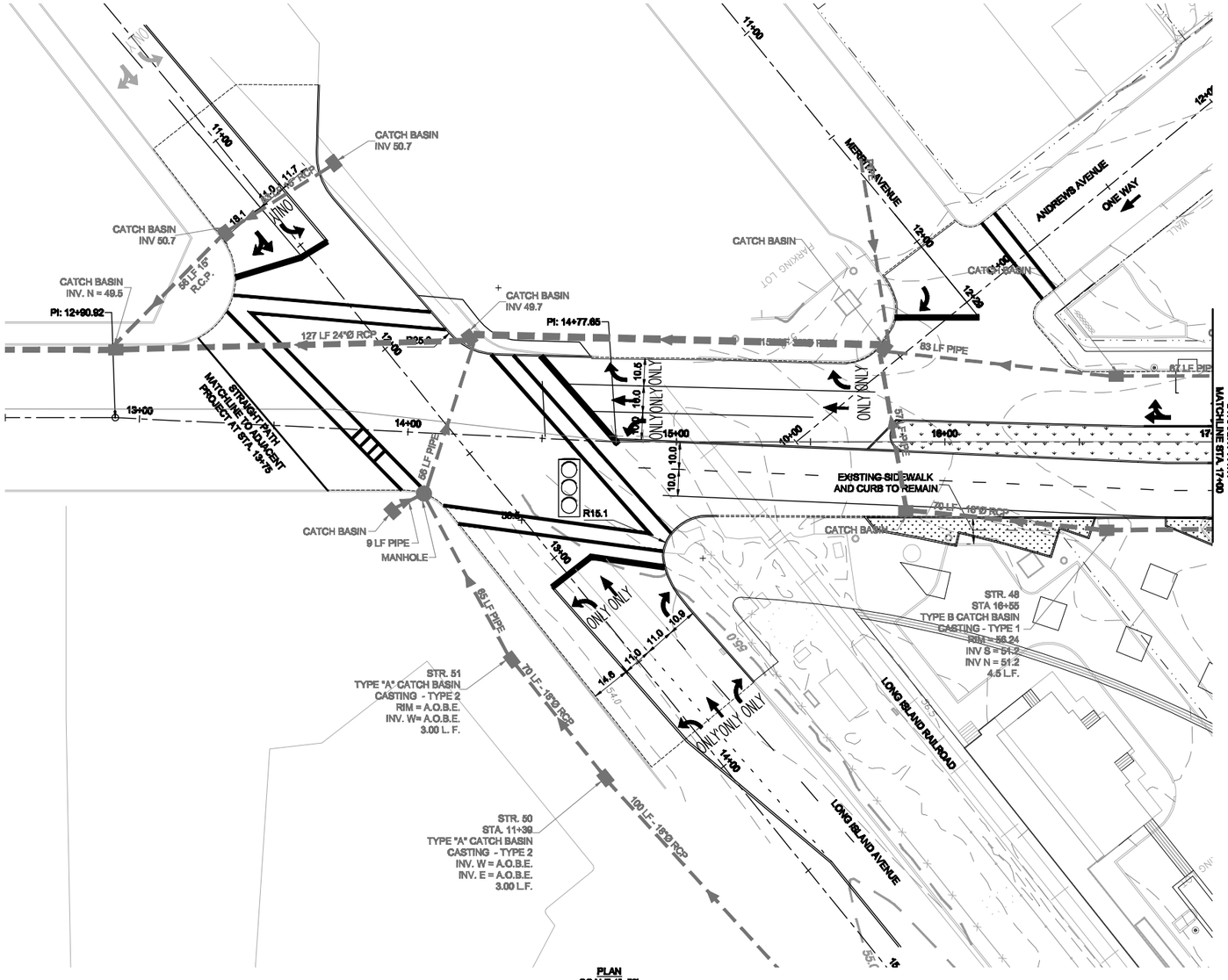
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WYANDANCH INTERMODAL TRANSIT FACILITY

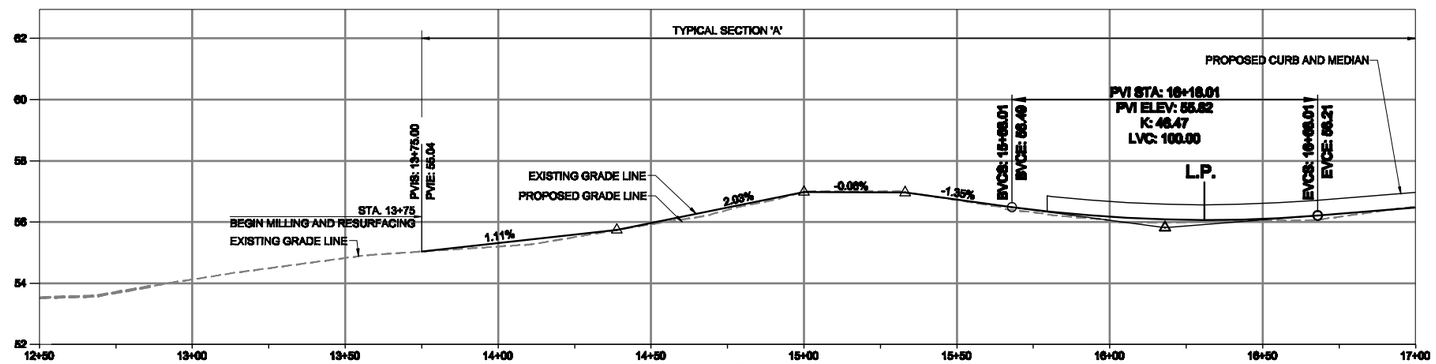
SITE AND STRIPING PLAN - 8
ACORN STREET STATION 16+31 TO 22+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	SP-8	OF

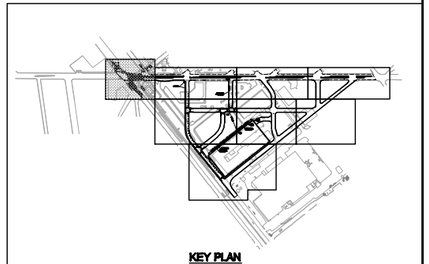


0 25 50
SCALE IN FEET

PLAN
SCALE 1"=50'



PROFILE
SCALE HORZ. 1"=50'
VERT. 1"=5'



KEY PLAN

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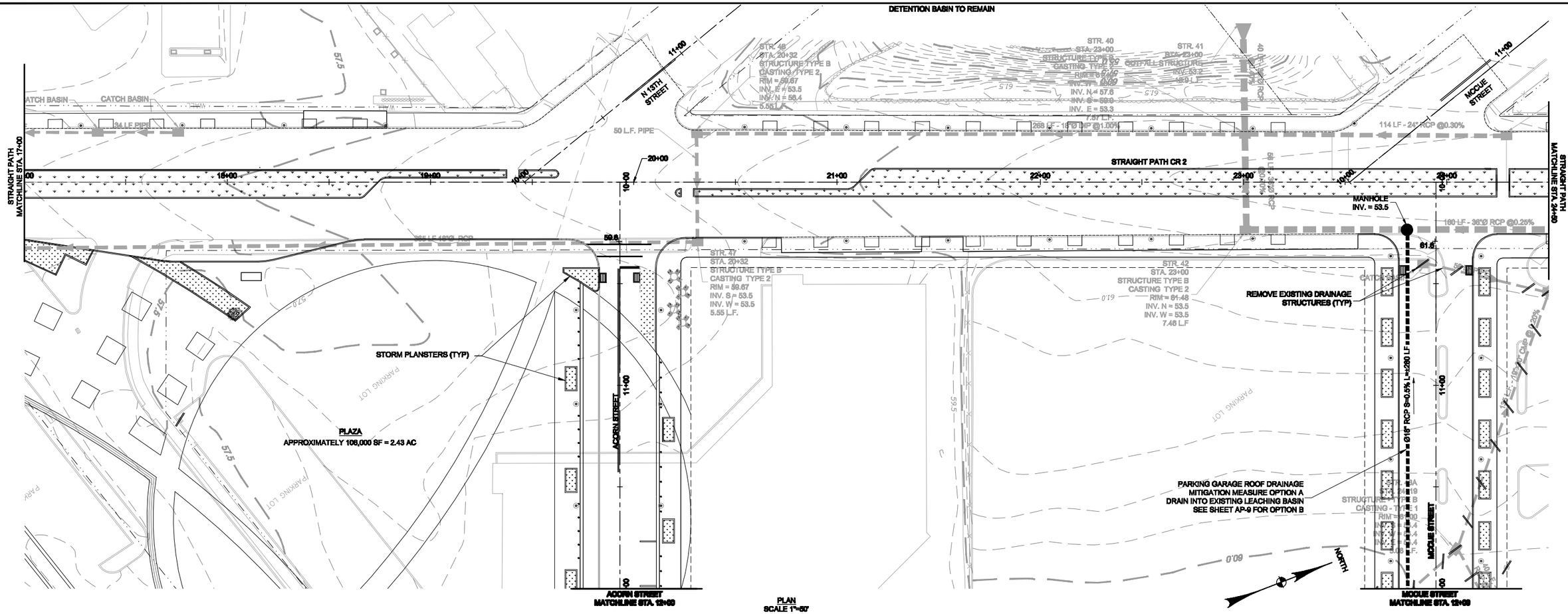
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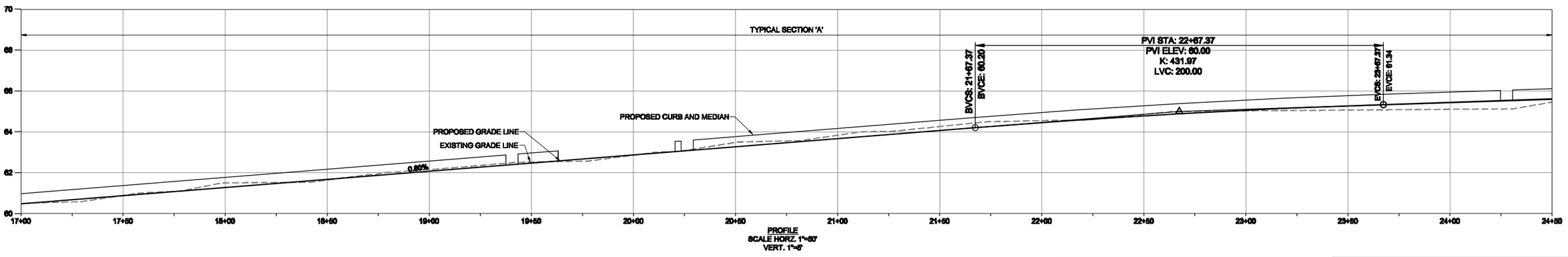
ALIGNMENT, GRADING, AND DRAINAGE PLAN - 1
STRAIGHT PATH STATION 12+50 TO 17+00

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-1	OF

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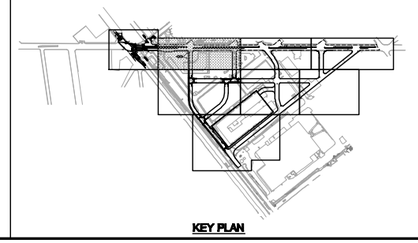


PLAN
SCALE 1"=50'



PROFILE
SCALE HORZ. 1"=50'
VERT. 1"=5'

0 25 50
SCALE IN FEET



KEY PLAN

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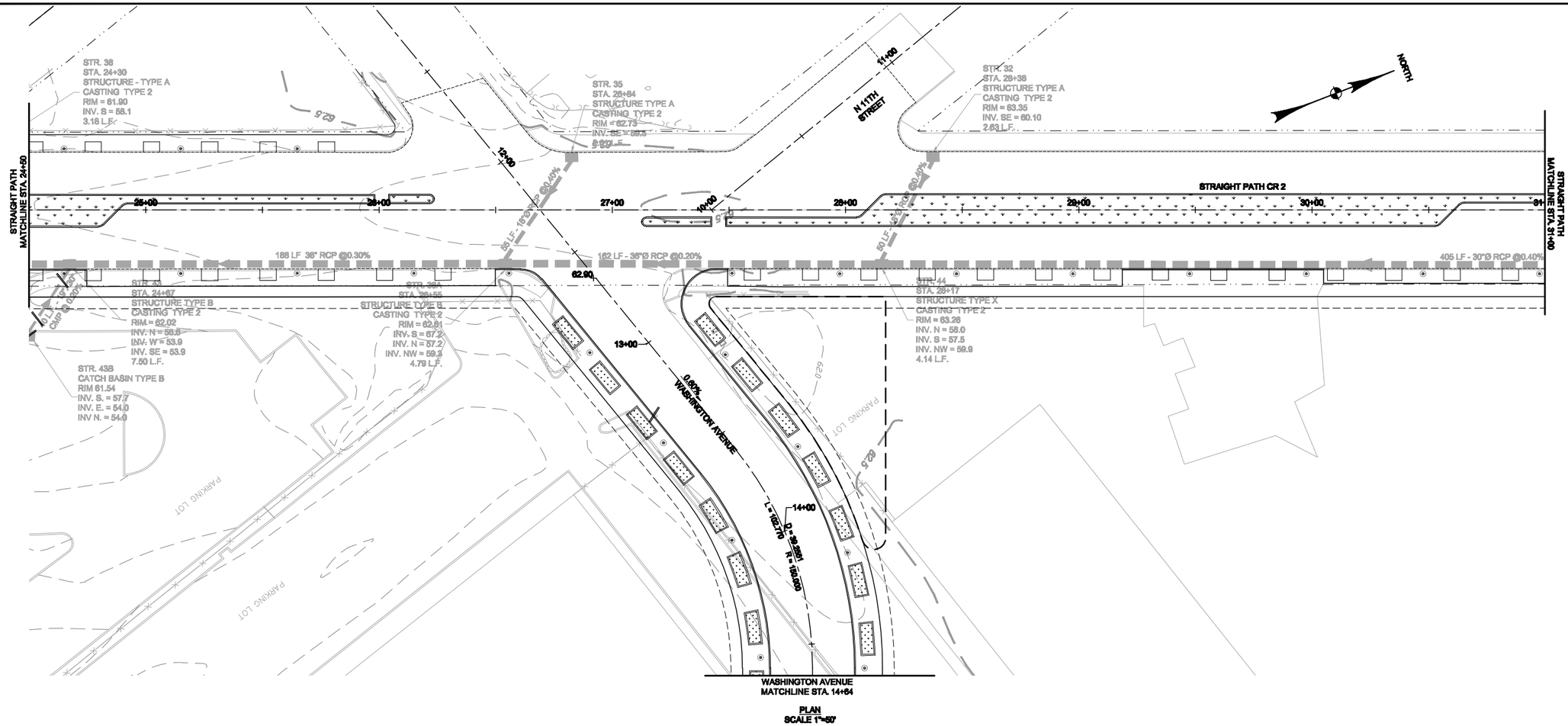
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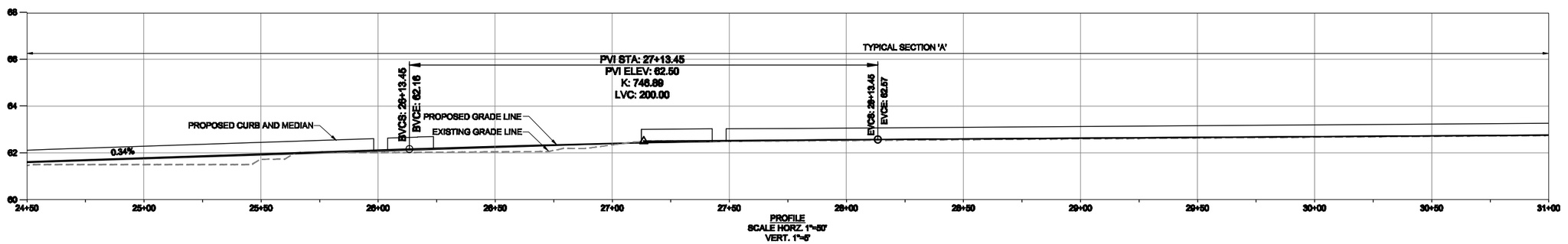
WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 2
STRAIGHT PATH STATION 17+00 TO 24+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-2	3 OF

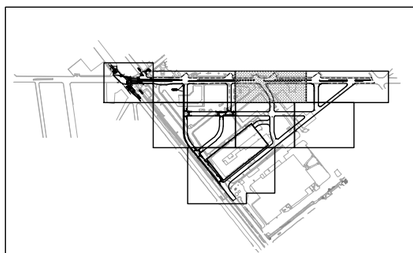


PLAN
SCALE 1"=50'



PROFILE
SCALE HORZ. 1"=50'
VERT. 1"=5'

0 25 50
SCALE IN FEET



KEY PLAN

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DRAWN BY: A. FOX P.E.
COMPARED BY: S. NORMANDIN P.E.

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40 MARCUS DRIVE MELVILLE, NY 11747

WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 3
STRAIGHT PATH STATION 24+50 TO 31+00

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-3	OF

STR. 28
STA. 10+98 L/S (10TH STREET)
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 64.30
INV. NW = 61.1
2.65 L.F.

STR. 30
STA. 32+22
STRUCTURE TYPE C
CASTING TYPE C
RIM = 64.54
INV. NW = 60.8
INV. E =60.8
INV. N = 61.3
2.63 L.F.

34 LF - 18"Ø RCP @0.40%

11+00

N 10TH STREET

232 LF - 18"Ø RCP @0.40%

STR. 30A
STA. 32+45
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 64.63
INV. S = 61.4
2.68 L.F.

STR. 29
STA. 10+98 R/S (10TH STREET)
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 64.20
INV. E =60.9
INV. S = 60.9
2.68 LF

STR. 26
STA. 35+80
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 65.57
INV. E =62.3
2.65 L.F.

STR. 23A
STA. 10+56 R/S NICOLLS
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 66.30
INV. NE = 63.1
2.58 L.F.

25 LF - 18"Ø RCP @0.40%

STR. 23
STA. 37+73
STRUCTURE TYPE B
CASTING TYPE 2
RIM = 66.21
INV. N = 62.9
INV. S = 62.9
2.69 L.F.

116 LF - 24"Ø RCP @ 0.20%

STRAIGHT PATH
MATCHLINE STA. 31+00

30

10+00

32+00

33+00

34+00

STRAIGHT PATH CR 2

35+00

35+45

36+00

37+00

PC: 37+03.33

PT: 37+57.44

38+00

50 LF - 18"Ø RCP @0.40%

320 LF - 24"Ø RCP @0.35%

40 LF - 24"Ø RCP @0.30%

50 LF - 18"Ø RCP @0.40%

230 LF - 24"Ø RCP @0.26%

77 LF - 24"Ø RCP @0.20%

26 LF - 18"Ø RCP

39 LF - 18"Ø RCP @0.40%

65.5

STR. 30A
STA. 32+22
STRUCTURE TYPE X
CASTING TYPE 2
RIM = 64.54
INV. N = 60.1
INV. S = 59.6
INV. NW = 60.6
3.82 L.F.

STR. 24A
STA. 35+38
STRUCTURE TYPE C
CASTING TYPE C
RIM = 65.55
INV. N = 61.2
INV. S = 61.2
INV. E = 61.9
2.59 L.F.

10 LF - 18"Ø RCP

STR. 24
STA. 10+29 L/S (9TH STREET)
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 65.31
INV. W = 62.1
3.79 L.F.

STR. 25
STA. 35+80
STRUCTURE TYPE B
CASTING TYPE 2
RIM = 65.71
INV. S = 61.3
INV. W = 62.1
INV. N = 61.3
3.79 L.F.

STR. X1
STA. 38+12
STRUCTURE TYPE B
CASTING TYPE 1
RIM = 66.35
INV. N = 61.9
INV. E = 62.5
INV. S = 61.9
3.91 L.F.

STR. 19
STA. 10+56 NICOLLS
STRUCTURE TYPE A
CASTING TYPE 2
RIM = 65.00
INV. N = 62.8
2.58 L.F.

STR. 20
STA. 10+72 NICOLLS
STRUCTURE TYPE B
CASTING TYPE 2
RIM = 66.10
INV. W = 62.6
INV. S = 62.6
3.79 L.F.

L=54.111, R=3000.000
Δ=1.0334

11+00

24+09

22+00

NORTH 9TH STREET EXTENSION
0.60%

N 10TH STREET
0.60%

N 10TH STREET
MATCHLINE STA. 12+00

N 9TH STREET EXTENSION
MATCHLINE STA. 22+60

NORTH

PLAN
SCALE 1"=50'

70
68
66
64
62

TYPICAL SECTION 'A'

EXISTING/PROPOSED GRADE LINE

PROPOSED CURB AND MEDIAN

0.07%

STA. 37+11
END MILLING AND RESURFACING

31+00 31+50 32+00 32+50 33+00 33+50 34+00 34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00

PROFILE
SCALE HORZ. 1"=50'
VERT. 1"=5'

0 25 50
SCALE IN FEET

KEY PLAN

DESIGNED BY: A. FOX, P.E.
CHECKED BY: S. NORMANDIN P.E.
DRAWN BY: A. FOX P.E.
COMPARED BY: S. NORMANDIN P.E.

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

The RBA ENGINEERS ARCHITECTS PLANNERS
40 MARCUS DRIVE MELVILLE, NY 11747

WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 4
STRAIGHT PATH STATION 31+00 TO 38+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-4	OF

ACORN STREET
MATCHLINE STA. 12+00

MOQUE STREET
MATCHLINE STA. 12+00

MONTAUKETT STREET
MATCHLINE STA. 14+57

NORTH

MOQUE STREET

MONTAUKETT STREET

FAIRCHILD STREET

MANHOLE
INV. = 54.9

Ø18" RCP @1.5% L=200LF

Ø12"Ø RCP @0.55% L=103 LF

Ø12"Ø RCP @0.55% L=103 LF

PIPE

PARKING LOT

ACORN STREET

D=39.2083
L=102.442, R=150.000

D=51.5182
L=134.423, R=150.000

FAIRCHILD STREET

ACORN STREET
MATCHLINE STA. 16+31

FAIRCHILD STREET
MATCHLINE STA. 10+00

PLAN
SCALE 1"=50'

PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

KEY PLAN

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WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 5
MONTAUKETT STREET STATION 10+00 TO 14+57

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-5	OF

WASHINGTON AVENUE
MATCHLINE STA. 14+64

NORTH

R. 43C
A. 24+50
RUCTURE - TYPE A
STING - TYPE 2
I = 60.90
/. SW = 54.6
6 L.F.

MONTAUKETT STREET
MATCHLINE STA. 14+57

MONTAUKETT STREET

0.50% 15+00 | 16+00 | 17+00 | 61.0 | 18+00 | 19+00 | 20

MONTAUKETT STREET
MATCHLINE STA. 20+00

0.50%
61.5
0.50%

15+00
16+00
17+00

WASHINGTON AVENUE

GARAGE DRIVEWAY

Ø12" RCP TO
DRAIN WATER
FROM ROOF
LEADERS (TYP)

Ø12"Ø RCP @1.00% L=63 LF

Ø12"Ø RCP @1.00% L=75 LF

PARKING GARAGE ROOF DRAINAGE
MITIGATION MEASURE OPTION A
DRAIN INTO EXISTING LEACHING BASIN
SEE SHEET AP-9 FOR OPTION B

MANHOLE
INV. = 55.9

PARKING LOT

L=111.989 R=650.000
D=42.4350

NORTH 9TH STREET EXTENSION
0.50%

16+00
17+00
18+00
19+00
60.5
16+45

N 9TH STREET EXTENSION
MATCHLINE STA. 15+57

N 9TH STREET EXTENSION
MATCHLINE STA. 19+57

PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET

KEY PLAN

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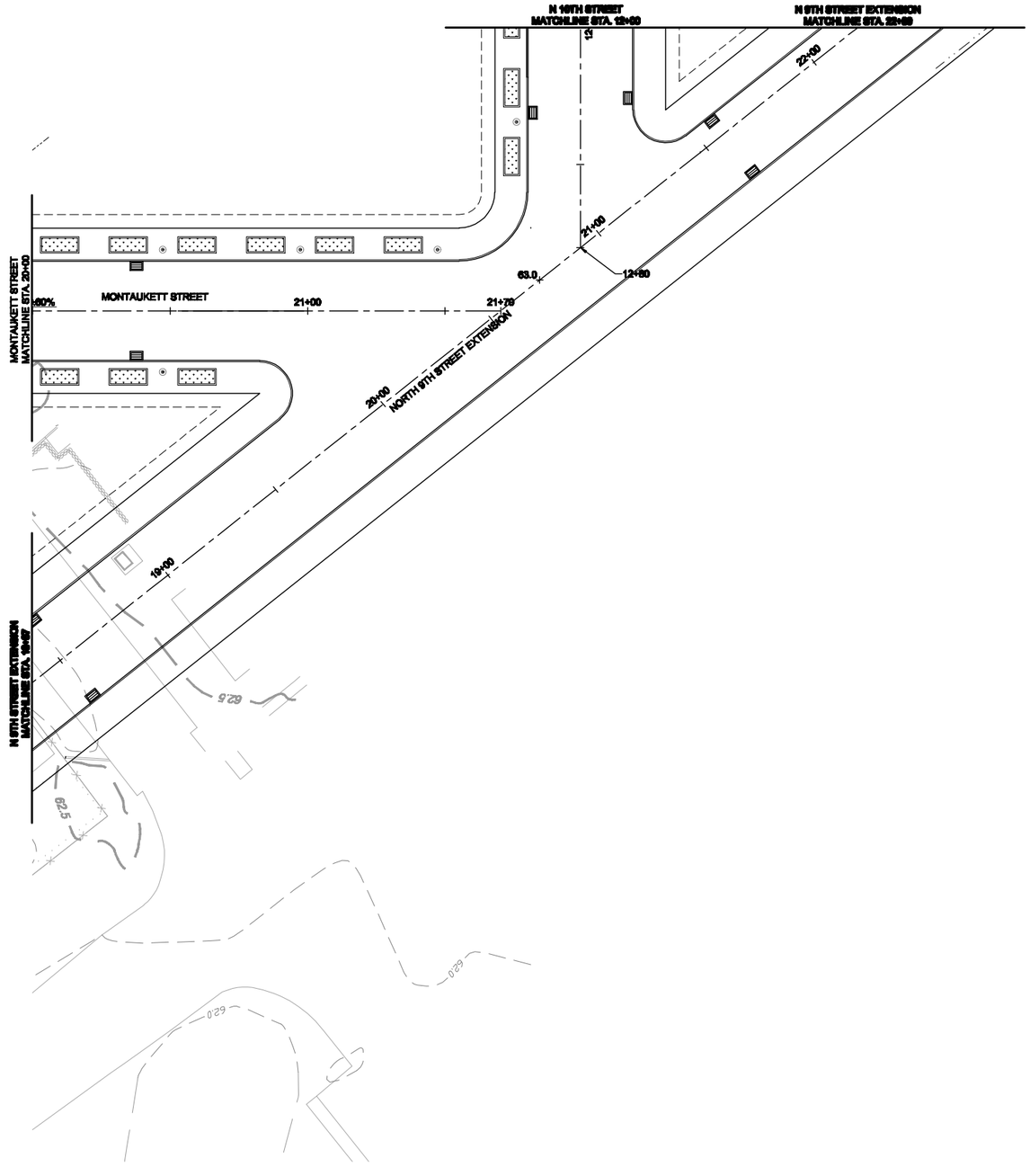
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WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 6
MONTAUKETT STREET STATION 14+57 TO 20+00

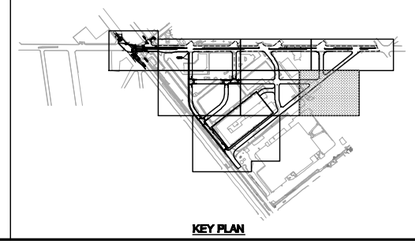
PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-6	OF

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CHECKED BY: S. NORMANDIN P.E.
DRAWN BY: A. FOX P.E.
COMPARED BY: S. NORMANDIN P.E.



PLAN
SCALE 1"=50'

0 25 50
SCALE IN FEET



KEY PLAN

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WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 7
TRUCK STREET STATION 16+37 TO 22+60

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-7	OF

ACORN STREET
MATCHLINE STA. 16+31

FAIRCHILD STREET
MATCHLINE STA. 10+66

N 9TH STREET EXTENSION
MATCHLINE STA. 15+97

NORTH

PARKING GARAGE

PARKING GARAGE ROOF DRAINAGE
MITIGATION MEASURE OPTION A
DRAIN INTO EXISTING LEACHING BASIN
SEE SHEET AP-9 FOR OPTION B

12" RCP @ 0.50% L=104 LF

NORTH 9TH STREET EXTENSION

ACORN STREET

LEACHING BASINS
SCDPW TYPE "D"
LOCATION EVERY ±200'

0 25 50
SCALE IN FEET

PLAN
SCALE 1"=50'

KEY PLAN

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CHECKED BY: S. NORMANDIN P.E.
DRAWN BY: A. FOX P.E.
COMPARED BY: S. NORMANDIN P.E.

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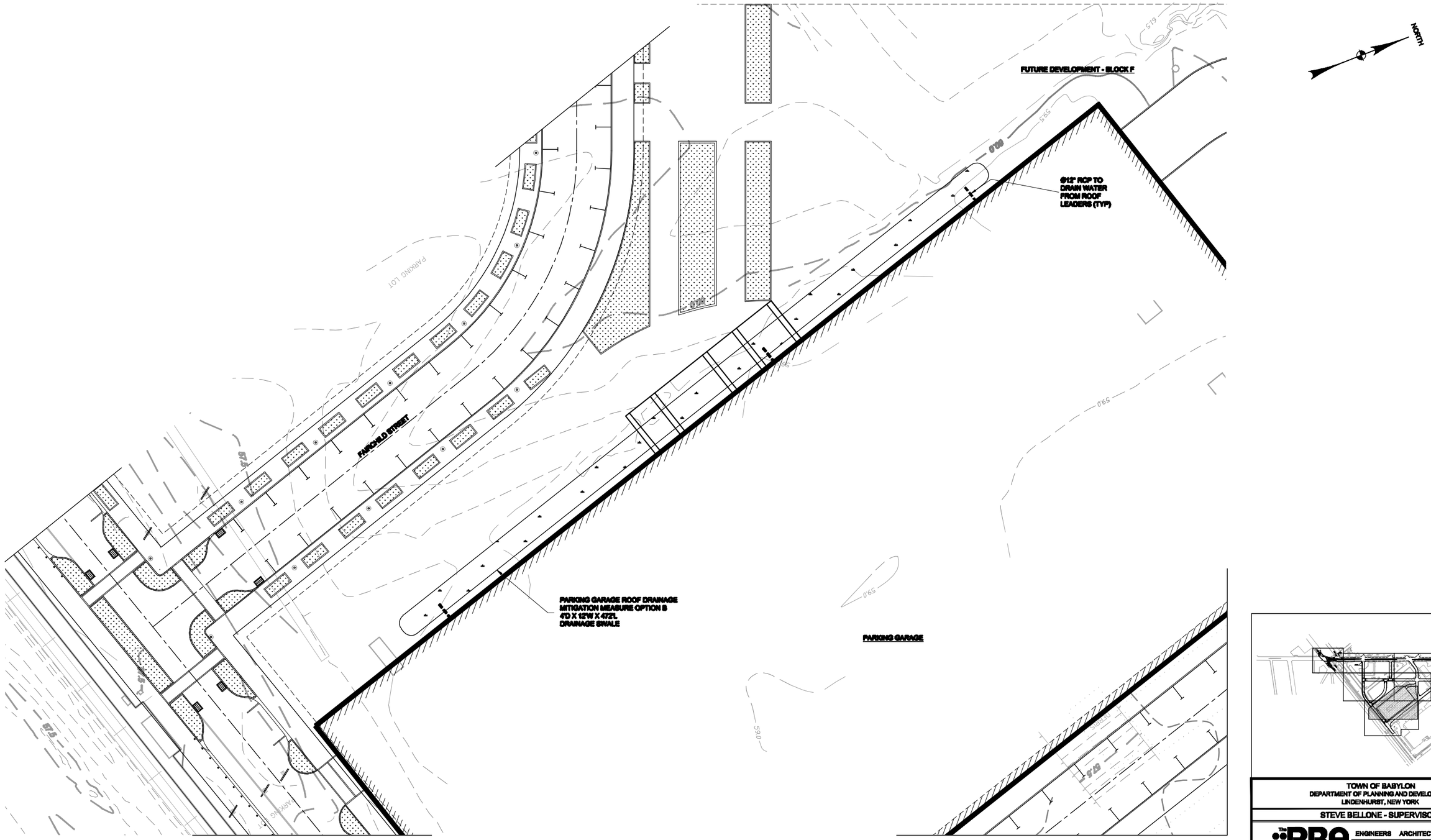
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WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 8
ACORN STREET STATION 16+31 TO 22+50

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-8	OF



PLAN
SCALE 1"=50'

KEY PLAN

DESIGNED BY: A. FOX, P.E.

CHECKED BY: S. NORMANDIN P.E.

DRAWN BY: A. FOX P.E.

COMPARED BY: S. NORMANDIN P.E.

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WYANDANCH INTERMODAL TRANSIT FACILITY

ALIGNMENT, GRADING, AND DRAINAGE PLAN - 9
PARKING GARAGE ROOF DRAINAGE MITIGATION MEASURE OPTION B

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=50'	AP-9	OF

59 CONVENTIONAL TREE PITS WITH NYSSA SYLVATICA (BLACK GUM) TREES AND STEEL GRATING ALONG STRAIGHT PATH

4 / LS-2

STRAIGHT PATH

STRAIGHT PATH

(1) KP

(11) GT

(20) GT

(6) GT

ACORN STREET

MCCUE STREET

10TH STREET

LONG ISLAND AVENUE

LONG ISLAND RAILROAD

STATION

(6) GT

(4) KP

(4) KP

(4) KP

(20) GT

(23) GT
STORMWATER TREE PITS, TYP.

2 / LS-3

AVENUE

MONTAUKETT STREET

(18) KP

(5) KP

(14) GT

WASHINGTON

(17) GT

(11) GT

(4) KP

FAIRCHILD STREET

NORTH 9TH STREET EXTENSION

SEE SHEET LP-2 FOR THIS AREA

PARKING GARAGE

ACORN STREET

(2) KP

SEE SHEET LP-3 FOR THIS AREA

STREET TREES					
Sym.	Qty:	Botanical Name:	Common Name	Cont.	Size:
GT	134	Gleditsia triacanthos var. inermis	Honeylocust	B&B	4"-4 1/2" cal.
KP	42	Koelreuteria paniculata	Goldenrain Tree	B&B	4"-4 1/2" cal.
NS	59	Nyssa sylvatica	Black Gum	B&B	4"-4 1/2" cal.

NORTH

0 70 140

SCALE IN FEET

DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: WB

COMPARED BY: COMPARED

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WYANDANCH INTERMODAL TRANSIT FACILITY

OVERALL LANDSCAPE SITE PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=140'	LP-1	OF

CONCRETE BAND

ON-STREET PARKING ALLOWED THIS SIDE OF STREET ONLY

BOLLARD, TYP.

STREET LIGHT, 80' O.C., OPPOSITE SIDES OF STREET, TYP.

PERVIOUS UNIT PAVERS COLOR II

FLUSH, WIDE, CONCRETE "CURB"

PERVIOUS UNIT PAVERS COLOR I

KISS AND RIDE LANE

PERVIOUS CONCRETE SIDEWALK, TYPICAL

BUS SHELTER

BIKE RACKS

LAWN

MARKET TENTS, TYP.

MARKET AREA WITH TREE PITS, SHRUBS AND BENCHES

PERVIOUS UNIT PAVERS

OPEN PLAZA +/- 24" ABOVE LAWN AND MARKET AREA

PLANTERS WITH COLUMNAR TREES AND BENCHES

SMALL, OPEN ENTRY PLAZA WITH LOCAL ART PIECES

PERVIOUS CONCRETE SIDEWALK, TYPICAL

EXISTING PLATFORM AND STAIRS TO BE REMOVED

NEW WIDENED CONCRETE PLATFORM . FINISHED HEIGHT TO BE THE SAME AS EXISTING PLATFORM.

EXISTING CONCRETE PLATFORM TO REMAIN

STORMWATER STREET TREE PITS, TYPICAL

MONTAUKETT STREET ROADWAY RECEIVES SPECIAL PAVING. CURBS ARE RAISED 6" ABOVE ROADWAY

PERVIOUS CONCRETE SIDEWALK, TYP.

PAVERS TRANSITION DOWN TO ADJACENT SPECIAL ROADWAY PAVEMENT HERE AND CURB IS REVEALED TO 6" HEIGHT

FLUSH CROSS WALKS IN CONTRASTING PAVER COLOR

STORMWATER CURB BUMP OUTS, TYP.

ALL UNIT PAVER PORTION OF ACORN STREET TO BE FLUSH WITH ADJACENT SIDEWALKS, SEE CORRESPONDING SECTIONS

FLUSH 6" WIDE CONCRETE CURB TO DELINEATE KISS AND RIDE LANE

CART WITH FLEXIBLE SEATING

PERVIOUS UNIT PAVERS

SEATWALL EDGE THIS SIDE OF PLANTER, TYP.

STORMWATER PLANTER

RAISED PLANTER

NORTH

0 30 60

SCALE IN FEET

DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: WB

COMPARED BY: COMPARED

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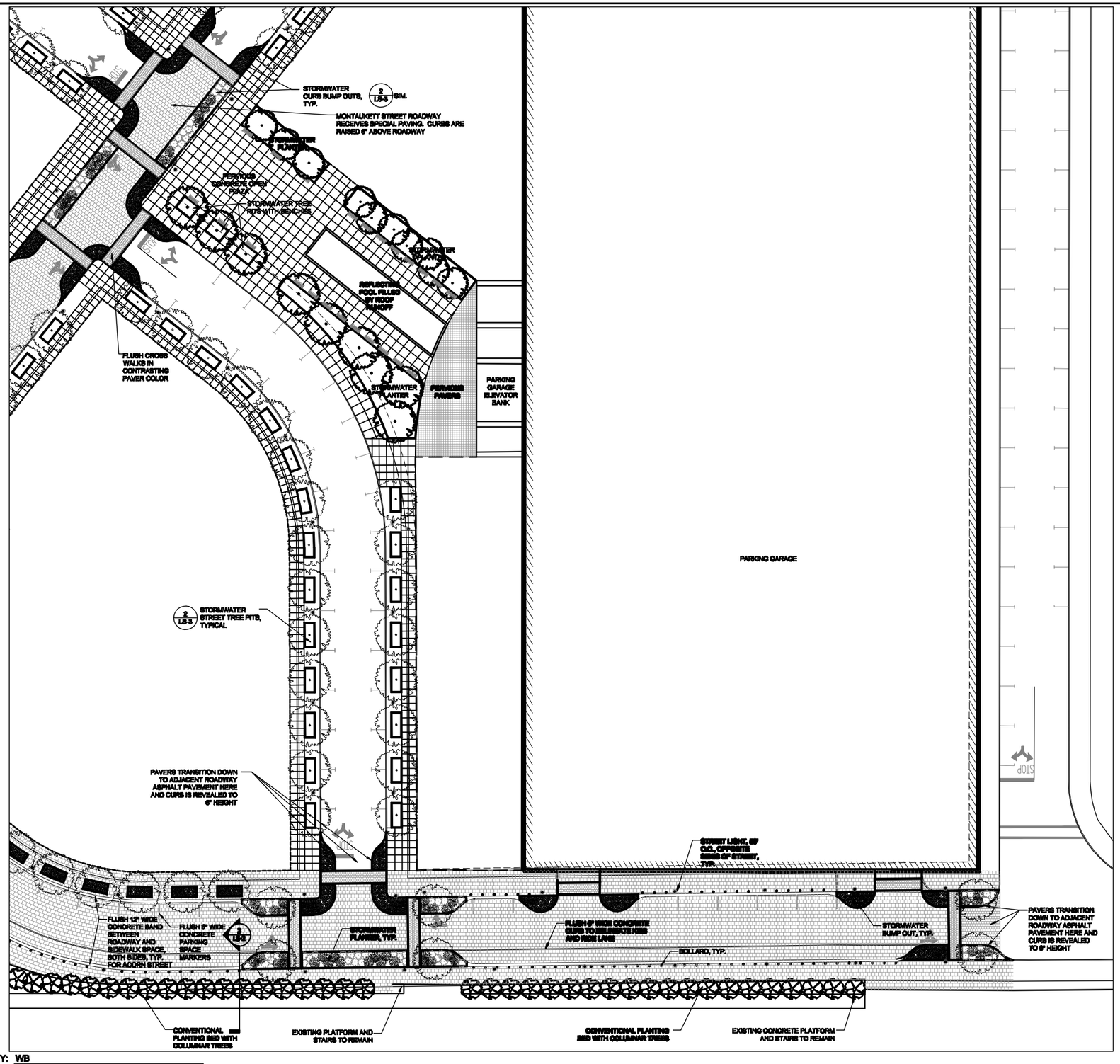
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48 MARCUS DRIVE MELVILLE, NY 11747

WYANDANCH INTERMODAL TRANSIT FACILITY

TRAIN PLAZA ENLARGEMENT PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=60'	LP-2	OF



NORTH

0 30 60

SCALE IN FEET

DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: WB

COMPARED BY:

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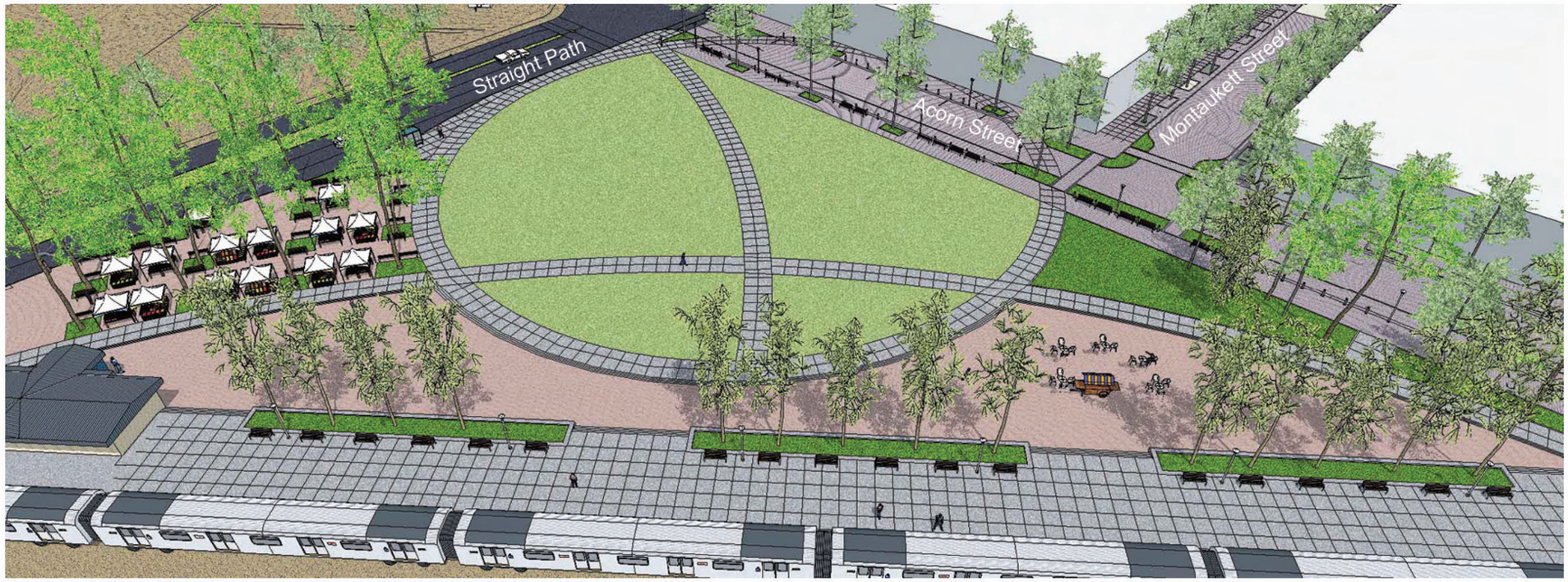
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WYANDANCH INTERMODAL TRANSIT FACILITY

PARKING GARAGE AREA ENLARGEMENT PLAN

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	1"=60'	LP-3	OF





DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: MM

COMPARED BY:

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WYANDANCH INTERMODAL TRANSIT FACILITY

TRAIN STATION PLAZA PERSPECTIVE RENDERING-1

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
		LR-1	OF

September 18, 2009
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DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: MM

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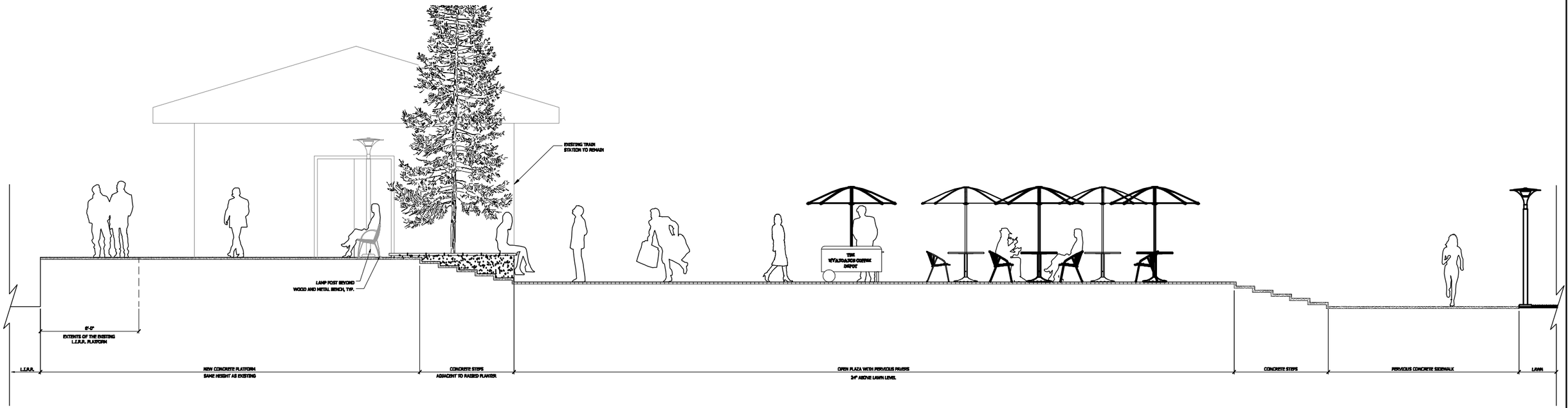
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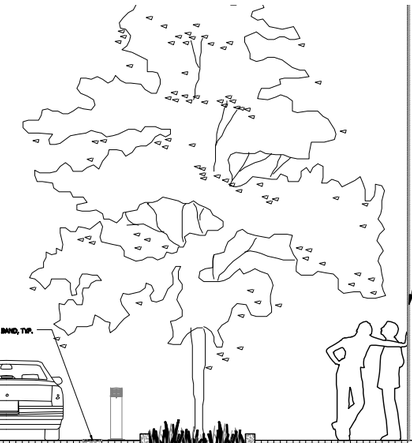
WYANDANCH INTERMODAL TRANSIT FACILITY

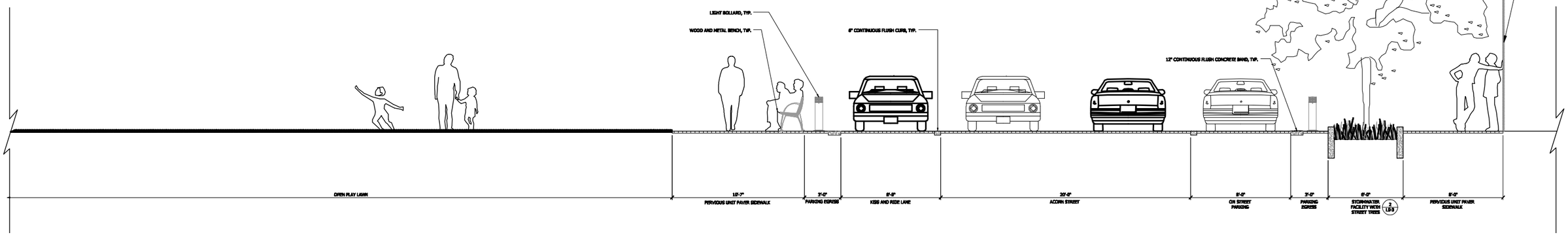
TRAIN STATION PLAZA PERSPECTIVE RENDERING-2

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
		LR-2	OF

September 18, 2009
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1 **WYANDANCH PLAZA**
SECTION / ELEVATION

NTS

DESIGNED BY: WB
CHECKED BY: JW
DRAWN BY: CS
COMPARED BY:

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WYANDANCH INTERMODAL TRANSIT FACILITY

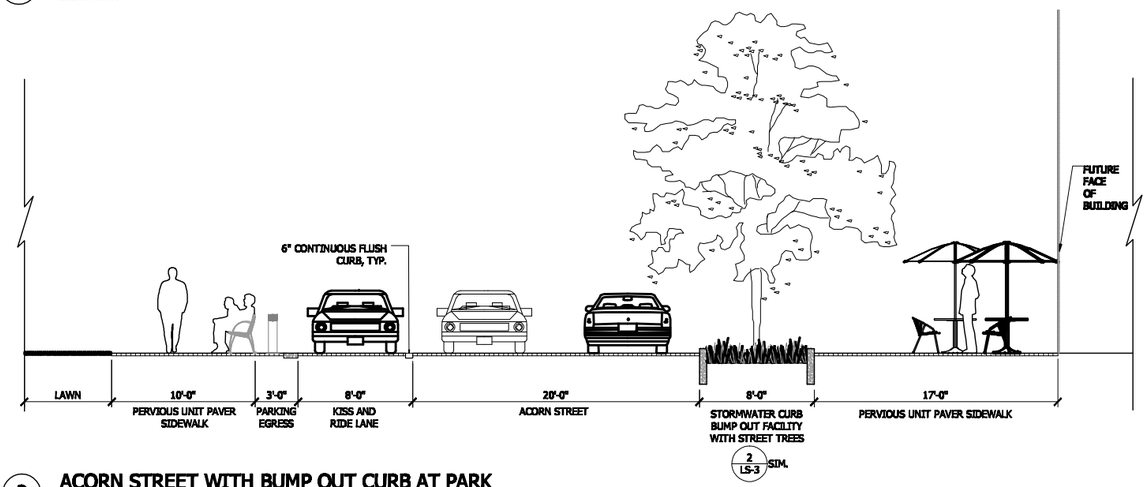
TRAIN PLAZA SECTIONS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	NTS	LS-1	OF



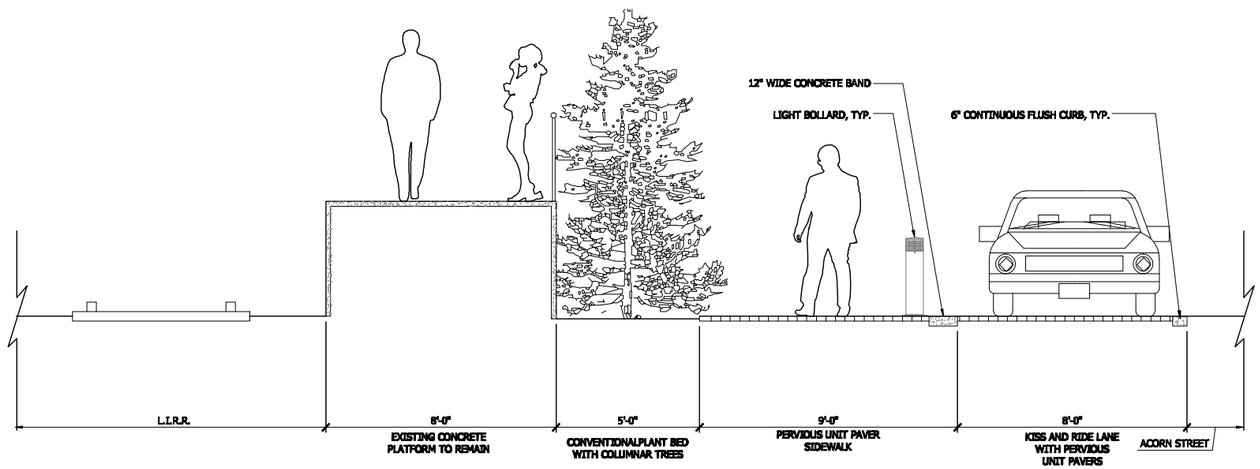
1 ACORN STREET LOOKING NORTH FROM PARK
ELEVATION

NTS



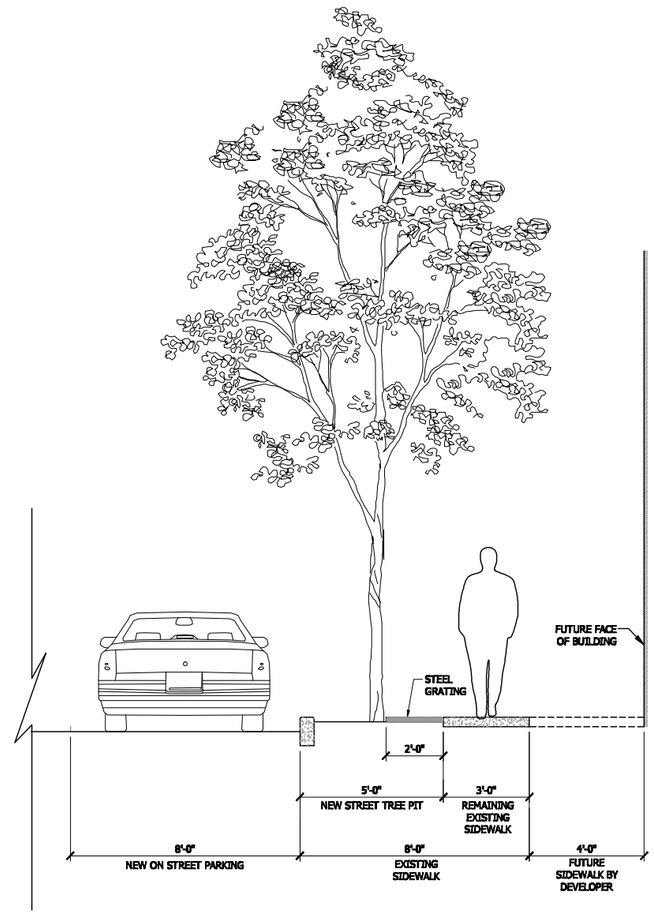
2 ACORN STREET WITH BUMP OUT CURB AT PARK
SECTION

NTS



3 ACORN STREET EAST OF PLAZA
SECTION

NTS



4 FUTURE SIDEWALK CONDITIONS ACROSS STRAIGHT PATH
SECTION

NTS

DESIGNED BY: WB

CHECKED BY: JW

DRAWN BY: WB/CS

COMPARED BY:

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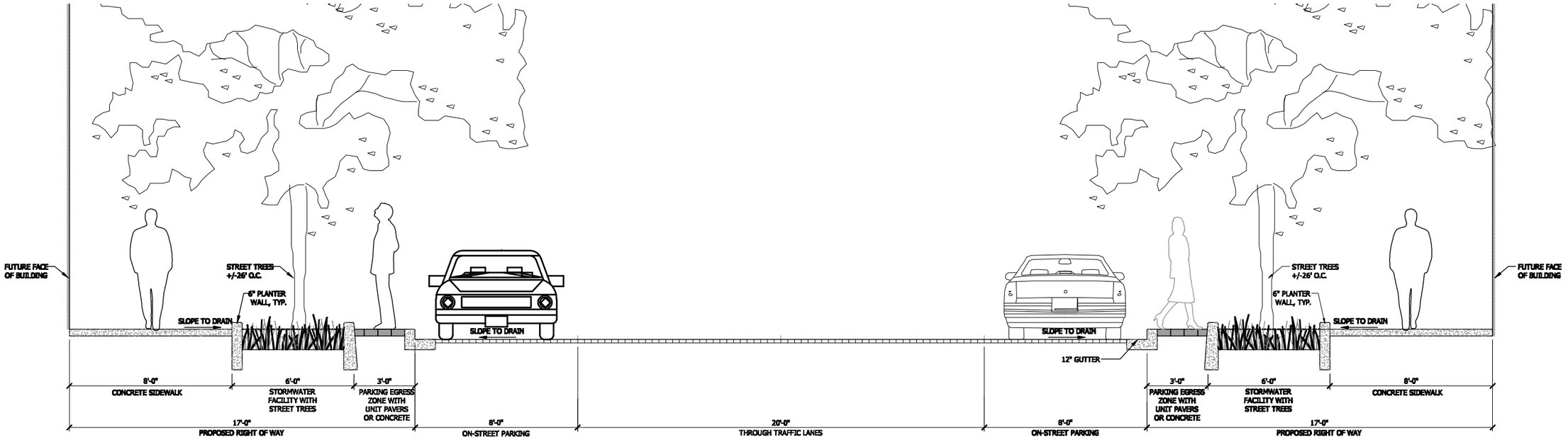
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WYANDANCH INTERMODAL TRANSIT FACILITY

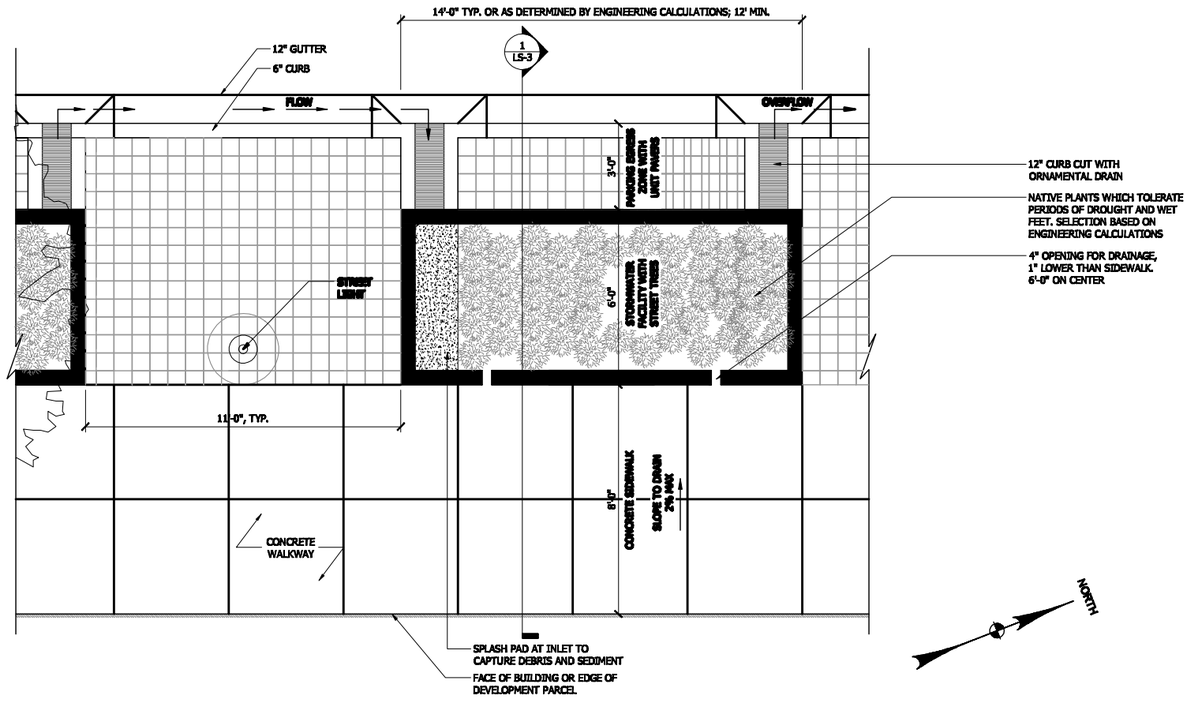
STREET SECTIONS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	NTS	LS-2	OF



1 **WYANDANCH SIDEWALK WITH STORMWATER FACILITY**
SECTION

NTS



2 **WYANDANCH SIDEWALK WITH STORMWATER FACILITY**
PLAN

Scale: N.T.S.

DESIGNED BY: WB
CHECKED BY: JW
DRAWN BY: WB
COMPARED BY:

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

The RBA ENGINEERS ARCHITECTS PLANNERS
40 MARCUS DRIVE MELVILLE, NY 11747

WYANDANCH INTERMODAL TRANSIT FACILITY

STORMWATER FACILITY SECTIONS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
	NTS	LS-3	OF

Drainage Calculations

Wyandanch Intermodal Drainage Calculation:

Calculate existing roadway drainage runoff discharged to the existing Detention Basin .

A. Existing condition

The existing Detention Basin Outfall Structure # 41 is located in the triangle between Straight Path Street, N 14th Street and N 13th Street from STA. 16+50 to STA.19+50 .The Detention Basin area was calculated based on the "Reconstruction of C.R. 2 Straight Path, Phase II" Plans and has an Area of:

A = 0.5[(105'X 115') + (90'X 115')] = **11,212 SF**

The Height **H= 5.8FT** was calculated from Structure #41 Invert Elevation = 53.2 to the High Water Elevation = 59.00

The Detention Basin Volume (Capacity) calculation:

V = (11,212 SF X 5.8 FT) + 0.5[11.6' X 5.8' X (190'+190'+150')] = **82,861 CF**

Assumed that the runoff volume generated by the drainage area from Straight Path Street and all adjacent streets from length limit of 150LF of each street and parking lot are contributing towards Straight Path drainage system (by surface or existing drainage system)

1. N 12 Street - 150'X50'=7,500SF
2. Washington Ave(W) - 150'x 50'=7,500SF
3. Washington Ave (E) - 150'x 60'=9,000SF
4. Parking between Acorn Str. Straight Path and Washington Ave. Assumed that runoff volume from~ 40% of parking area are contributing to the Straight Path drainage system:
   - 250'x 230'=73,500SF
5. N 11TH STR. (W) - 150'x 50'=7,500SF
6. N 10TH STR. (E) - 150'x 50'=7,500SF
7. N 9TH STR. - 150'x 50'=7,500SF
8. Nicolls Rd .(W) - 150'x 45'=6,750SF
9. Nicolls Rd. (E) - 150'x 50'=7,500SF
10. Smith STR. - 100'x 50,=5,000SF
11. Portland Way - 100'x 50'=5,000SF
12. Spring Str. (W) - 150'x 50'=7,500SF
13. Spring Str. (E) - 150'x 50'=7,500SF
14. Straight Path from STA. 24+00 TO STA. 47+75 , L= 2,375 LF and width between R.O.W. = 70LF
    2,375' x 70'=166,250 SF

TOTAL A = 325,500SF

Rational Method Runoff Coefficient for asphalt/concrete = 0.85. I'm not using this coefficient to be more conservative with calculation of rainfall participating area.

Assuming 2" of rain: 325,500SF X 2"/12 = **54,250 CF** of existing runoff is discharge to the existing Detention Basin.

Conclusion: The ratio of discharge volume to the existing Detention Basin volume

= 54,250 CF/82,861 CF = 0.65

So, existing Detention Basin has a reserve capacity of: 100% - 65**% = 35%**

<u>Calculate drainage runoff from proposed 6 story Garage with Parking spaces on the roof .</u>

1. Total garage roof Area:
   A = 490'(L) x 252'(W) = 123,480 SF
2. Assuming that the roof will generate 2"of rainfall
   V= 123,480SF x 2"/12 = 20,580 CF
3. Using Rational Method the Runoff Coefficient C = 0.8 (for roof 0.8 – 0.95)
   V = 20,580 CF x 0.8 = 16,464 CF
4. To drain the rainfall using Leaching Basin Type "F" (Used by Suffolk County)
   V = 3.14 x 10^2 / 4 x 12' = 942 CF
   16,464 CF / 942 CF = 17 Leaching Basin
5. 4'(W) x 4'(D) x 12'(L) Leach Pit can disperse ~ 1,250Gal of rain in most soil
6. To drain the rainfall using Open Drain Swell **4'(D) x 12'(W),** the necessary length will be **392 LF** and should be located along longer side of the Garage.
   Recommendation: Construct Open Drain Swell, 20 'away from garage foundation.

<u>Other alternative to drain out the rainfall from new garage</u>

The alternative solution is to construct 18"Ø RCP pipe between proposed garage and Straight Path and discharge the runoff from proposed garage roof to the existing detention basin located in the triangle between Straight Path Street, N 14th Street and N 13th Street from STA. 16+50 to STA.19+50

The existing parking lot is located between Acorn Str. Straight Path and Washington Ave. The parking runoff is drain thru existing parking drainage system and contributing to the Straight Path drainage system and discharged to existing detention basin.

It was assumed in above calculation that runoff volume from~ 40% of parking area are contributing to the Straight Path drainage system and is discharged to the detention basin. ***This is assumption is based on field visit and existing plan***.

The 40% of the parking area A.1 = 250'x 230' = 73,500SF V.1 = 73,500 X 2"/12 = 12,250 CF

The proposed garage roof area A.2 = 490' X 252' = 123,480 SF V.2 =123,480 X 2"/12 = 20,580 CF

Total A.2 – A.1 = 49,980 SF V.2 – V.1 = 8,330 CF

Assumption:

1. After construction of 6 story garage additional volume which would be discharge to existing detention basin will be 8,330 CF.

Calculate drain pipe connection between garage roof to existing detention basin

1. Assuming the Garage Floor Elevation = ±60.00
2. Existing Structure #42 located at Sta. 23+27 has Invert Elevation = 53.5
3. Length between garage and Structure #42 L = ±480LF
4. Assuming construction of new Ø18" RCP drain pipe on 0.5% slope: 480' x 0.005 = 2.4'
5. So the garage Invert Elevation = 53.5 + 2.4' = 55.9

Note: Test Borings in 2 location around existing Detention Basin show Groundwater at 10'10" and 11'7"below the existing surface.

Detention Basin design criteria.

The sizing of the Detention Basin is dictated by the runoff volume to be detained over specific period of time. As a minimum, the Detention Basin should be sized to accommodate the runoff generated by the stormwater quality design storm. No more than 10% of the runoff volume from the design storm may remain after a minimum of 24 hours. The initial volume of water quality storage portion of the basin shall be based on 1.25 inches of rainfall over 2 hours. I'm using 2" of rainfall over 2 hours.

Basin configuration

-The use of basin that are shallow and have large bottom surface will provide better removal efficiencies than small deep basin.

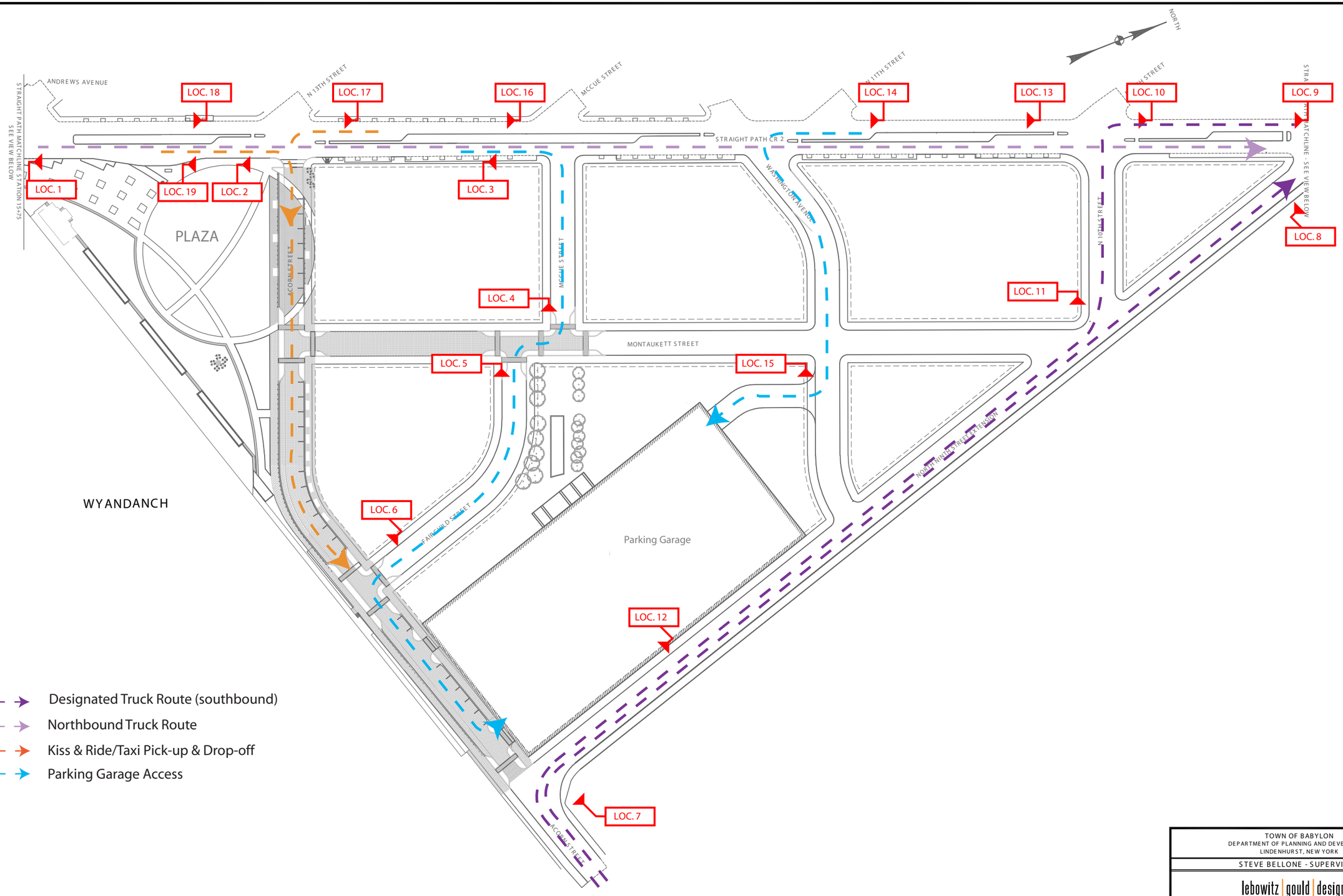
-The basin slope shall be 2:1

- The depth shall range from 3' to 12' in depth

-The depth to seasonal high water table (SHWT) should be identified

-Access for maintenance must be included

Wayfinding and Signage Plans



- Designated Truck Route (southbound)
- Northbound Truck Route
- Kiss & Ride/Taxi Pick-up & Drop-off
- Parking Garage Access

OVERALL SITE PLAN
SCALE 1"=140'

0 70 140
SCALE IN FEET

DESIGNED BY: A. YURTSEVEN, M. HOEFLER
CHECKED BY: A. YURTSEVEN
DRAWN BY: M. HOEFLER
COMPARED BY:

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

lebowitz | gould | design inc

THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SCHEMATIC WAYFINDING SIGN LAYOUTS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	NTS	GRAPHICS	LG 1

September 9, 2009
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LOC. 1



LOC. 2



LOC. 3



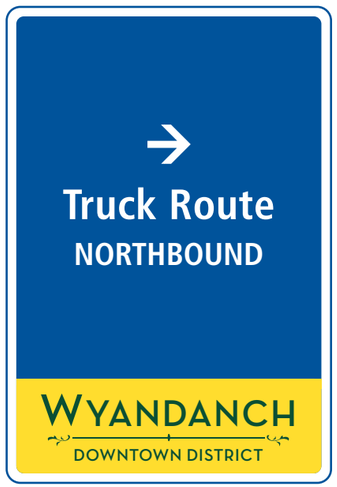
LOC. 4



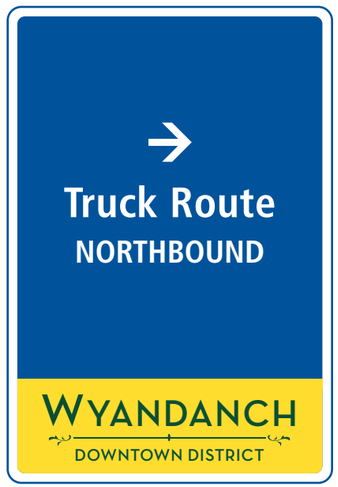
LOC. 5



LOC. 6



LOC. 7



LOC. 8



LOC. 9



LOC. 10

DESIGNED BY: A. YURTSEVEN, M. HOEFLER

CHECKED BY: A. YURTSEVEN

DRAWN BY: M. HOEFLER

COMPARED BY: _____

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SCHEMATIC WAYFINDING SIGN LAYOUTS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	NTS	GRAPHICS	LG 2

September 9, 2009
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LOC. 11



LOC. 12



LOC. 13



LOC. 14



LOC. 15



LOC. 16



LOC. 17



LOC. 18



LOC. 19

DESIGNED BY: A. YURTSEVEN, M. HOEFLER

CHECKED BY: A. YURTSEVEN

DRAWN BY: M. HOEFLER

COMPARED BY:

TOWN OF BABYLON
DEPARTMENT OF PLANNING AND DEVELOPMENT
LINDENHURST, NEW YORK

STEVE BELLONE - SUPERVISOR

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THE WYANDANCH INTERMODAL TRANSIT FACILITY - PHASE II

SCHEMATIC WAYFINDING SIGN LAYOUTS

PROJECT NO.	SCALE	DWG. NO	SHEET NO.
4254	NTS	GRAPHICS	LG 3

September 9, 2009
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Cost Estimate

VJ ASSOCIATES

136 WEST JOHN STREET

HICKSVILLE, NEW YORK - 11801

TEL: (516) 932-1010

PRELIMINARY ENGINEERING DESIGN ESTIMATE REV

WYANDANCH INTERMODEL TRANSIT FACILITY

TOWN OF BABYLON,SUFFOLK COUNTY

WYANDANCH, NEW YORK

September 9, 2009

VJ ASSOCIATES

136 WEST JOHN STREET

HICKSVILLE, NEW YORK - 11801

TEL: (516) 932-1010

PRELIMINARY ENGINEERING DESIGN ESTIMATE

WYANDANCH INTERMODEL TRANSIT FACILITY

TOWN OF BABYLON, SUFFOLK COUNTY

WYANDANCH, NEW YORK

PRELIMINARY ENGINEERING DESIGN ESTIMATE REV
WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK

QUALIFICATIONS

1 Scope of project is as follows:
Parking Garage Estimate includes the following:
- A Parking Garage - 133,408 square foot footprint - 717,310 square feet parking area. including rooftop parking.
- B Parking Garage - 2000 parking spaces

2 The Parking Garage is a five story and roof precast concrete structure.

3 Start of construction is based on Jan. 2010. Construction is based on 18 month duration

4 The following markups are included.
- A General Conditions 10%
- B Overhead and Profit 10%
- C Design Contingency 20%
- D Bid Contingency TBD
- E Escalation - TBD

5 Exclude the following:
- A A - E consultant fees
- B Testing Consultants
- C Construction Contingency
- D Overtime
- E Soft costs, land acquisition, financing costs, legal fees etc.
- F Removal of contaminated materials during excavation.
- G Asbestos abatement
- H Rock excavation
- I Any underpinning or monitoring of adjacent structures.
- J Irrigation system at building perimeter planters
- K Toilets at Office or Retail shell space
- L Any fitout or finish work at Retail shell space.
- M Emergency generator for lighting

6 VJ Associates estimate is based on Aecom / RBA drawings dated July. 15, 2009.

VJ ASSOCIATES
PRELIMINARY ENGINEERING DESIGN ESTIMATE REV
WYANDANCH INTERMODEL TRANSIT FACILITY
WYANDANCH, NEW YORK

PROJECT SUMMARY

DESCRIPTION	TOTAL CONSTRUCTION COST
SITE,PLAZA AND ROAD WORK	$13,908,741
PARKING STRUCTURE	$51,501,443
TOTAL	$65,410,184

VJ ASSOCIATES
PRELIMINARY ENGINEERING DESIGN ESTIMATE
WYANDANCH INTERMODEL TRANSIT FACILITY
WYANDANCH, NEW YORK

CSI TRADE SUMMARY - SITEWORK,PLAZA AND ROADWORK

	DESCRIPTION		AMOUNT
1	**DEMOLITION**		634,238
2A	**SITE CONSTRUCTION**		8,944,784
	SUB TOTAL		$9,579,022
	GEN. CONDITIONS	10.0%	957,902
	SUB TOTAL		$10,536,925
	OVERHEAD AND PROFIT	10.0%	1,053,692
	SUB TOTAL		$11,590,617
	DESIGN CONTINGENCY	20.0%	2,318,123
	SUB TOTAL		$13,908,741
	ESCALATION TO CONSTRUCTION MIDPOINT	-	TBD
	TOTAL CONSTRUCTION COSTS		$13,908,741
	TOTAL AREA	SF	795,312
	COST PER GSF		$15.36

VJ ASSOCIATES

WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
PRELIMINARY ENGINEERING DESIGN

SITEWORK AND PLAZA AND ROADWORK

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
1	**DEMOLITION**				
	Remove the following				
	Construct and maintain a construction fence around site perimeter. (Not shown on documents)	35.00	2,000	LF	70,000
	Construct sliding entry gates to construction site at two locations	2,500.00	4	EA	10,000
	Remove existing tree, pit and stump				None shown
*	Demolish existing building structure at shopping center				NIC
*	Demolish existing building structure at new parking garage				NIC
	Remove existing signage, posts and footings as required	2,000.00	1	LS	2,000
	Remove existing parking meters and footings				None shown
	Remove existing light poles, conduit, wire and footings	10,000.00	1	LS	10,000
	Remove and relocate existing catch basins and storm piping as required	5,000.00	1	LS	5,000
	Misc electrical demolition. Make safe dead utilities, coordination with utilities for shutdowns etc.	10,000.00	1	LS	10,000
	Misc site demolition not shown	5,000.00	1	LS	5,000
	Cart debris off site	15,000.00	1	LS	15,000
	Remove the following				
	Asphalt paving at Straight path	0.25	183,664	SF	45,916
	Remove existing asphalt islands and curbs at existing parking areas.	0.50	810,644	SF	405,322
	Remove existing concrete sidewalks				Included above
	Remove existing curbs between asphalt paving and sidewalk				Included above
	Existing asphalt paving and aggregate base				Included above
	Saw cut asphalt at roadway allow	6.00	7,800	LF	46,000
	Misc site removals	10,000.00	1	LS	10,000
					634,238
2A	**SITEWORK**				
	SITE PREPARATION				
	EROSION CONTROL				
	Provide and maintain silt fence during construction.	2,000.00	1	LS	2,000
	Gravel pad at construction entrance. 24' x 50'	3.50	2,000	SF	7,000
	Tree protection				Not shown
	Inlet protection - protect existing drywells and drain inlets. Clean and reset as required.	5,000.00	1	LS	5,000

VJ ASSOCIATES

WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
PRELIMINARY ENGINEERING DESIGN

SITEWORK AND PLAZA AND ROADWORK

DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
SITE IMPROVEMENTS				
Precast concrete planters and liners	1,500.00	152	EA	228,000
Bicycle rack	5,000.00	1	LS	5,000
New traffic signs on poles with footings and pavement markings as required	5,000.00	1	LS	5,000
SITE LANDSCAPING				
Trees -				
3 1/2" caliper average and tree pits with grating	800.00	235	EA	188,000
Planting for Infiltration Pit/Planter	500.00	176	EA	88,000
Groundcover, mulch and shrubs at landscaped areas	3.00	64,919	SF	194,757
Import topsoil planting mix for planters at grade	35.00	141	CY	4,951
Import topsoil planting mix for planters at second and third floor building perimeter	35.00	141	CY	4,951
Geocomposite fabric at planters as required	3.50	3,496	SF	12,236
Irrigation System at Planters				None shown
SITE UTILITIES	200,000.00	1	LS	200,000
Remove existing site utilities				Included above
New site utility work				Included above
Sanitary				Included above
Fire/ Domestic water				Included above
Gas Service				Included above
Electrical Service				Included above
Telecomm Service				Included above
Steam Systems				Included above
Misc.				Included above
Protection of existing site utilities to remain. Capping of line to be removed. Identification and field markout of all site utility lines. Repair of any damage during construction.				Included above
Storm water 18" RCP	75.00	500	LF	37,000
Storm water 12" RCP	65.00	500	LF	33,000
Manhole	10,000.00	3	EA	30,000
Leaching Basin incl. excavation, gravel/sand base and geotextile and grating at top	11,300.00	50	EA	565,000
Catch Basin Type 'A'	10,000.00	5	EA	50,000
Excavation for above	25.00	642	CY	16,057
Misc. structure	25,000.00	1	LS	25,000
Plumbing work required at Plaza	25,000.00	1	LS	25,000
SITE LIGHTING				None shown

VJ ASSOCIATES

WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
PRELIMINARY ENGINEERING DESIGN

SITEWORK AND PLAZA AND ROADWORK

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
	SUB STRUCTURE				
*					
	BUILDING EARTHWORK				
	General grading at building site footprint	0.75	150,000	SF	112,500
*	Remove all underground footings, piping and structures	15,000.00	1	LS	15,000
	Pumping during construction	20,000.00	1	LS	20,000
	Dewatering during construction				Included above
	Porous drain tile at building perimeter	15.00	1,556	LF	23,340
	Import gravel fill under slab on grade	35.00	4,909	CY	171,827
	Misc hand trim, mechanical trenching and misc earthwork.	10,000.00	1	LS	10,000
	Contaminated materials removal				Exclude
	Site final grading	0.30	810,644	SF	243,193
	SITE PAVING AND CURBS				
	Asphalt pavement repair. Where new asphalt paving meets existing	12.00	1,200	SF	14,400
	New drop curbs at parking entrances. Not shown on site plans.	75.00	300	LF	22,500
	Handicap sidewalk ramp. Not shown on site plans.	1,900.00	75	EA	142,500
	New 4" concrete sidewalk pavement with wwm and expansion joints on 6" gravel base, 12' wide				
	At Straight Path	8.00	24,912	SF	199,296
	At Straight Path and LIRR south	8.00	17,472	SF	139,776
	At Acorn Street	8.00	20,256	SF	162,048
	At Fairchild Street	8.00	9,960	SF	79,680
	At Montaukett Street	8.00	26,040	SF	208,320
	At 10th Street	8.00	5,592	SF	44,736
	At Mccue Street	8.00	6,240	SF	49,920
	At N. 9th Street Extension	8.00	34,728	SF	277,824
	At Washington Ave	8.00	12,144	SF	97,152
	Concrete curbs				
	At Straight path	0.00	2,076	LF	Existing
	At Straight path and LIRR south	0.00	2,000	LF	Existing
	At Acorn Street	25.00	3,000	LF	75,000
	At Fairchild Street	25.00	2,000	LF	50,000
	At Montaukett Street	25.00	2,170	LF	54,250
	At N. 10th Street	25.00	466	LF	11,650
	At Mccue Street	25.00	520	LF	13,000
	At N. 9th Street Extension	25.00	2,894	LF	72,350
	At Washington Ave	25.00	1,012	LF	25,300
	Asphalt Resurfacing 52' wide				
	At Straight path	2.50	107,952	SF	269,880
	At Straight path and LIRR south	2.50	75,712	SF	189,280

VJ ASSOCIATES

WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
PRELIMINARY ENGINEERING DESIGN

SITEWORK AND PLAZA AND ROADWORK

DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
New asphalt paving and aggregate base from Parking entry to street	7.00	6,076	SF	42,532
New asphalt paving and aggregate base 36' wide				0
At Fairchild Street	7.00	14,940	SF	104,580
At Montaukett Street	7.00	21,816	SF	152,712
At N. 10th Street	7.00	8,388	SF	58,716
At Mccue Street	7.00	9,360	SF	65,520
At N. 9th Street Extension	7.00	52,092	SF	364,644
At Washington Ave	7.00	18,216	SF	127,512
Curved Pervious concrete sidewalk at plaza	10.00	67,002	SF	670,020
Pervious color unit pavers at plaza	15.00	58,121	SF	871,815
Pervious color unit pavers at Montaukett street	15.00	17,244	SF	258,660
Pervious color unit pavers at Acorn street	15.00	34,452	SF	516,780
Pervious color unit pavers at Acorn street sidewalk	15.00	20,256	SF	303,840
Special Pavers on Public plaza	20.00	4,490	SF	89,800
Steel grating at wetland	30.00	8,920	SF	267,600
	sum			
ROAD MEDIAN AND CURBS				
New 4" concrete median with wwm and expansion joints on 6" gravel base, 12' wide				
At median 6	10.00	3,657	SF	36,570
At median 10	10.00	4,891	SF	48,910
At median 17-19	10.00	2,324	SF	23,240
At median 21-23	10.00	1,800	SF	18,000
At median 25-26	10.00	1,220	SF	12,200
At median typ 26,35,35,	10.00	216	SF	2,160
At median typ 24,24,27,32,32,37	10.00	48	SF	480
At median 28-31	10.00	3,136	SF	31,360
At median 33-34	10.00	1,812	SF	18,120
At median 36	10.00	848	SF	8,480
Concrete curbs around median				
At median 6	35.00	533	LF	18,655
At median 10	35.00	857	LF	29,995
At median 16	35.00	66	LF	2,310
At median 17-19	35.00	534	LF	18,690
At median 21-23	35.00	572	LF	20,020
At median 25-26	35.00	348	LF	12,180
At median typ 26,35,35,	35.00	108	LF	3,780
At median typ 24,24,27,32,32,37	35.00	72	LF	2,520
At median 28-31	35.00	746	LF	26,110
At median 33-34	35.00	438	LF	15,330
At median 36	35.00	262	LF	9,170
New asphalt at street only at disturbed areas for median work	110.00	550	tons	60,500

VJ ASSOCIATES

WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
PRELIMINARY ENGINEERING DESIGN

SITEWORK AND PLAZA AND ROADWORK

DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
New widen conc. Platform	0.00	25,139	SF	NIC
Landscaping, furniture, and site lighting at building entrance and perimeter (outside of the parking)	100,000.00	1	LS	100,000
New Traffic signal 4 way	150,000.00	1	LS	150,000
New asphalt at street only at disturbed areas for site utility work	15,000.00	1	LS	15,000

VJ ASSOCIATES
PRELIMINARY ENGINEERING DESIGN ESTIMATE REV
WYANDANCH INTERMODEL TRANSIT FACILITY
WYANDANCH, NEW YORK

CSI TRADE SUMMARY - PARKING STRUCTURE

	DESCRIPTION		AMOUNT
1	**DEMOLITION**		46,393
2A	**SITE CONSTRUCTION**		10,869
3	**PILING**		1,120,000
4	**CONCRETE**		24,057,047
5	**MASONRY**		763,500
6	**METALS**		176,940
7	**WOOD AND PLASTICS**		56,120
8	**THERMAL AND MOISTURE PROTECTION**		2,770,968
9	**DOORS AND WINDOWS**		315,300
10	**FINISHES**		739,090
11	**SPECIALTIES**		261,700
12	**EQUIPMENT**		120,000
13	**FURNISHINGS**		None
14	**SPECIAL CONSTRUCTION**		None
15	**CONVEYING SYSTEMS**		750,000
16	**HVAC**		279,800
17	**PLUMBING**		581,218
18	**FIRE PROTECTION**		855,525
19	**ELECTRICAL**		2,564,842

	SUB TOTAL		$35,469,313
	GEN. CONDITIONS	10.0%	3,546,931

	SUB TOTAL		$39,016,245
	OVERHEAD AND PROFIT	10.0%	3,901,624

	SUB TOTAL		$42,917,869
	DESIGN CONTINGENCY	20.0%	8,583,574

	SUB TOTAL		$51,501,443
	ESCALATION TO CONSTRUCTION MIDPOINT	-	TBD

	TOTAL CONSTRUCTION COSTS		$51,501,443
	TOTAL PARKING AREA	SF	795,312
	COST PER GSF		$64.76
	COST / PARKING SPACE (2000 SPACES)		$25,750.72

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WYANDANCH INTERMODEL TRANSIT FACILITY
TOWN OF BABYLON,SUFFOLK COUNTY
WYANDANCH, NEW YORK
REV

PARKING STRUCTURE - CSI TRADE ESTIMATE

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
1	**DEMOLITION**				
	Remove the following				
	Asphalt paving at parking	0.35	132,552	SF	46,393
					46,393
2A	**SITEWORK**				
	BUILDING EARTHWORK				
	Building isolated cut excavation and disposal off site and backfill at all footings and pits	30.00	362	CY	10,869
					10,869
3	**PILES**				
	Pile foundation 12" dia steel casing with0.498 inch wall and 5000psi conc grout say 2 piles/col. Ave 50' deep incl. mob/demob and pile testing	8,000.00	140	EA	1,120,000
					1,120,000
4	**CONCRETE**				
	FOUNDATION CONCRETE				
	Concrete wall footings say 1'x2' - include all formwork and reinforcing	450.00	115	CY	51,867
	Concrete pile caps say6'x'4'x3'- include all formwork and reinforcing	475.00	187	CY	88,667
	Concrete piers sitting on column footings - include all formwork and reinforcing-say 2' x 2'	475.00	591	CY	280,778
	Asphalt concrete at first floor	3.00	132,552	SF	397,656
	Elevator pit slab & wall	5,000.00	2	EA	10,000
	Misc foundation concrete	25,000.00	1	LS	25,000
	SUPERSTRUCTURE CONCRETE				
	Precast conc. slab w/support (Double Tee)				
	@ roof level	33.00	132,552	SF	4,374,216
	@ 2nd,3rd,4th,5th floor	33.00	530,208	SF	17,496,864
	P.C.Spandral panel .9" thick, 5'-6" high				
	@ floor	150.00	7,780	LF	1,167,000
	@ Ramp	150.00	1,000	LF	150,000
	Misc concrete	15,000.00	1	LS	15,000
					24,057,047
5	**MASONRY**				
	EXTERIOR				
	Brick facing on PC panel	15.00	38,900	SF	583,500
	INTERIOR				

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PARKING STRUCTURE - CSI TRADE ESTIMATE

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
	8" Cmu walls at elevators and stairs	25.00	7,200	SF	180,000
					763,500
6	**METALS**				
	Steel support @ stair and elevator roof @ 10lbs /sf	1.50	7,500	LBS	11,250
	MISC IRONWORK	0.25	662,760	SF	165,690
					176,940
7	**WOOD AND PLASTICS**				
	Install HM doors, frames and finish hardware	180.00	34	LEAF	6,120
	Misc wood blocking, protection and scaffolding	50,000.00	1	LS	50,000
					56,120
8	**THERMAL & MOISTURE PROTECTION**				
	Damp proofing at concrete foundation walls	3.50	3,904	SF	13,664
	Waterproofing sealer at parking roof	2.00	132,552	SF	265,104
	Waterproofing at elevator pits	12.00	300	SF	3,600
	Metal roof @ stair and elevator bulkhead	20.00	750	SF	15,000
	Gutter @ stair roof	25.00	160	LF	4,000
	Downspout	25.00	40	LF	1,000
	Splash block	30.00	4	EA	120
	Exterior caulking and sealants	10,000.00	1	LS	10,000
	Roof garden	25.00	10,000	SF	250,000
	Solar canopies incl. structure at the roof parking area	60.00	36,808	SF	2,208,480
					2,770,968
9	**DOORS AND WINDOWS**				
	DOORS				
	Furnish HM doors and frames				
	Single	450.00	34	EA	15,300
	Exterior glass and metal curtain wall at elevator enclosure	85.00	3,000	SF	255,000
	Furnish and install motorized overhead coiling grille and frame at Parking entry	7,500.00	6	EA	45,000
					315,300

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PARKING STRUCTURE - CSI TRADE ESTIMATE

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
10	**FINISHES**				
	RETAIL FINISHES				BY OTHERS
	FLOOR FINISHES				
	Concrete sealer at all exposed concrete floors	1.00	662,760	SF	662,760
	WALL FINISHES				
	Seal and paint cmu walls	1.00	7,200	SF	7,200
	CEILINGS				
	Exposed concrete ceilings - unpainted				
	MISC				
	Paint HM doors and frames	70.00	34	LEAF	2,380
	Paint car lines	25.00	2,000	EA	50,000
	Paint traffic arrows	75.00	50	EA	3,750
	Paint handicap parking symbols	200.00	40	EA	8,000
	Misc painting - metals, railings etc.	5,000.00	1	LS	5,000
					739,090
11	**SPECIALTIES**				
	Misc. specialties	10,000.00	1	LS	10,000
	Toilet accessories at Office or Retail Space toilets				
	Exterior metal louvers and frames at elevator shafts.	1,000.00	2	EA	2,000
	Fire extinguishers and cabinets - allow one at every stair flight	350.00	20	EA	7,000
	Interior and Exterior Signage Allowance - Reflective traffic and directional signs, painted graphic signs with reflective letters and numbers, painted clearance bars, pavement painting etc.	10,000.00	1	LS	10,000
	Paint striped lines on floors	1.00	8,700	SF	8,700
	1'-0" High Stainless steel - ENTRANCE / EXIT Letters - exterior signage x 2 entries - not shown on drawings	350.00	40	EA	14,000
	Precast bumpers at parking spaces	100.00	2,000	EA	200,000
	Signage	10,000.00	1	LS	10,000
					261,700
12	**EQUIPMENT**				
	Garage equipment				

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PARKING STRUCTURE - CSI TRADE ESTIMATE

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
	Gates	7,500.00	4	EA	30,000
	Card reader	5,000.00	4	LS	20,000
	Booth	35,000.00	2	EA	70,000
					120,000
13	**FURNISHINGS**				
					None
					None
14	**SPECIAL CONSTRUCTION**				
					None
					None
15	**CONVEYING SYSTEMS**				
	Fire stairs -include tread / riser assembly and intermediate platforms and railing	10,000.00	25	FLT	250,000
	Passenger shuttle elevator serving 6 floor - 6 stops, 57' travel	250,000.00	2	EA	500,000
					750,000
16	**HVAC**				
	Garage ventilation				NOT REQUIRED
	Exhaust fans	25,000.00	1	LS	25,000
	Furnish and install the following				
	Provide self contained Air conditioning units and associated ductwork and controls at Office and Retail Space	15,000.00	5	EA	75,000
	Provide hot water unit heaters including all roughing, valves and insulation.	5,000.00	2	EA	10,000
	Provide gas boilers including all roughing, valves and insulation.	25,000.00	2	EA	50,000
	Provide hot water circulation pumps including all roughing, valves and insulation.	3,000.00	2	EA	6,000
	Misc piping for above equipment not shown	25,000.00	1	LS	25,000
	Outside air metal louvers and frames	1,500.00	2	EA	3,000
	Motorized dampers at louvers	2,500.00	2	EA	5,000

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PARKING STRUCTURE - CSI TRADE ESTIMATE

	DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
	Galvanized iron ductwork including hangers and waste	13.00	1,700	LB	22,100
	Foil face wrap around insulation at ductwork	4.50	1,400	SF	6,300
	Ceiling diffusers at Office and Retail Space	400.00	6	EA	2,400
	Assume exhaust fans at office, retail space and stairs - not shown	10,000.00	1	LS	10,000
	Temperature controls	15,000.00	1	LS	15,000
	Ceiling registers at return air				
	Misc testing and balancing, shop drawings, coordination, permits, coring and sleeves, seismic restraints etc.	25,000.00	1	LS	25,000
					279,800
17	**PLUMBING**				
	Equipment				
	Duplex sump pump	12,500.00	1	EA	12,500
	Storm water system	0.70	795,312	SF	556,718
	Seismic restraints	5,000.00	1	LS	5,000
	Misc. items, permits, identification, test, etc.	7,000.00	1	LS	7,000
					581,218
18	**FIRE PROTECTION**				
	FD valves w/ piping	1,355.00	1	EA	1,355
	Zone CVA	2,220.00	1	EA	2,220
	Sprinkler heads w/ piping say 1head/200sf	250.00	3,314	EA	828,450
	Seismic restraints	7,500.00	1	LS	7,500
	Misc. items, permits, identification, engineering, test, etc.	16,000.00	1	LS	16,000
					855,525
19	**ELECTRICAL**				
	Emergency distribution conduit and wire, Grounding	250,000.00	1	LS	250,000
	Incoming Service (3 Sets of 4" RGS each 4#500 MCM) Assume 100 LF				
	Concrete				
	Excavation & backfilling				
	Main Distribution Panel - Assume 1000A				
	Lighting Panels - 100A				
	Mech Equip. Panels				
	Lighting Contactors				
	Feeders to Lighting Panels (Assume 350 LF)				

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PARKING STRUCTURE - CSI TRADE ESTIMATE

DESCRIPTION	UNIT PR	QUANTITY	UNIT	AMOUNT
Emergency Distribution System (Assume 80 KW) (Includes Emergency Distribution Equipments & Feeders)				
Astronomical Time Clock				
Lighting	2.00	795,312	SF	1,590,624
Perimeter Lighting Fixtures				
Other Ceiling Mounted Fixtures				
Exit Lights				
1-1/2" RGS				
#10 CU				
Equipment connections	50,000.00	1	LS	50,000
Elevator Connections				
Unit Heater Connections				
Misc Main Booth Connections				
Exhaust Fan Connections				
Special systems				
Fire Alarm System (Allow CO Detectors, FACP, Conduits & wires)	0.30	795,312	SF	238,594
Comm. data (empty conduit)	0.10	795,312	SF	79,531
Security system	0.30	795,312	SF	238,594
CCTV Surveillance Main Rack				
CCTV Cameras				
1" RGS				
Flexible metal conduit-To camera junction box				
Cat 6 Cables				
120V power outlet-For cameras				
3/4" RGS w/ 3#10				
Miscellaneous	80,000.00	1	LS	80,000
Grounding				
Conduit Supports				
Misc Pull Boxes & Junction Boxes				
Lighting Control System				
Testing of Systems				
Lightning Protection				
As-Built Drwgs				
Misc. items, drafting, supervision, identification, etc.				
Temp Lighting & Power	25,000.00	1	LS	25,000
Commissioning	5,000.00	1	LS	5,000
Seismic restraints	7,500.00	1	LS	7,500
				2,564,842