MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

FACILITIES ENGINEERING, ADA & SUSTAINABILITY DIVISION

PURPLE LINE LIGHT RAIL TRANSIT SYSTEM

PRELIMINARY ENGINEERING

VOLUME 8 - YARDS AND SHOPS

CONTRACT NO. T-1042-0220

ADA DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).

DATE

DESIGNER'S SIGNATURE

MD. REGISTRATION NO. _____
P.E. R.L.S. OR R.L.A. (CIRCLE)

PRINTED NAME

DESIGN CERTIFICATION

"I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I AND II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY"

DATE

DESIGNER'S SIGNATURE

MD. REGISTRATION NO. _____
P.E. R.L.S. OR R.L.A. (CIRCLE)

PRINTED NAME

OWNERS / DEVELOPER CERTIFICATION

"I/WE HEREBY CERTIFY THAT ALL CLEARING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

ROBERT L. BURRIS, ASSISTANT MANAGER,
Facilities Engineering, ADA & Sustainability

DATE

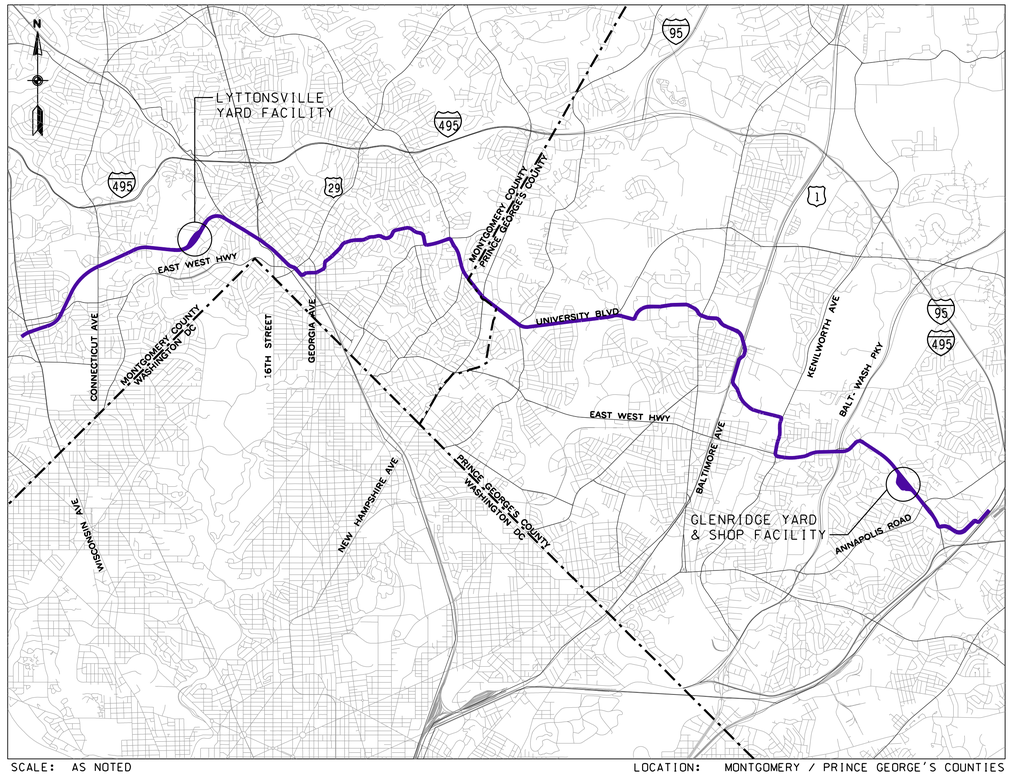
OWNER/DEVELOPER SIGNATURES

43667

CERT. NO.

PRINTED NAME AND TITLE

DCN: 2013.12.20.PE.01.P3 Draft RFP Reference Drawings-Vol. 8-00



SCALE: AS NOTED

LOCATION: MONTGOMERY / PRINCE GEORGE'S COUNTIES

VICINITY MAP

5000' 2500' 0 5000' 10000'

GRAPHIC SCALE

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

PRELIMINARY ENGINEERING SUBMISSION

DECEMBER 2013

MARYLAND TRANSIT ADMINISTRATION

DATE: _____ APPROVED: _____

Purple Line

General Engineering Consultant Team

100 North Charles Street, 8th Floor ■ Baltimore, MD 21202
P: 410-244-6046

CONTRACT NO.	T-1042-0220
DRAWING NO.	TI-8001
SHEET NO.	1 OF 443

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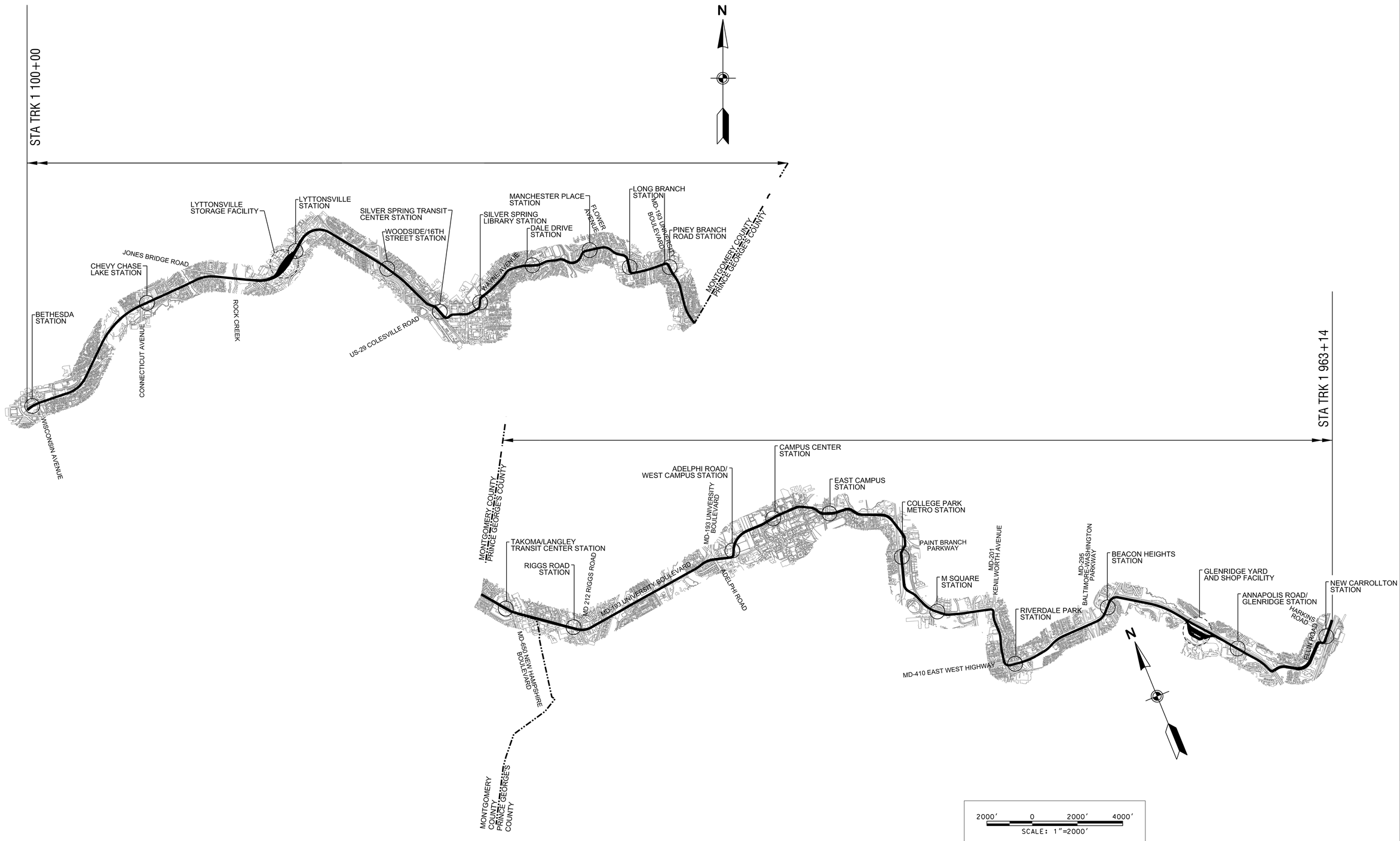
12/12/2013



MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

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DESIGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

KEY MAP

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. GN-8001
SHEET NO. 2 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 08\1042pGN8001.dgn
11/13/2013

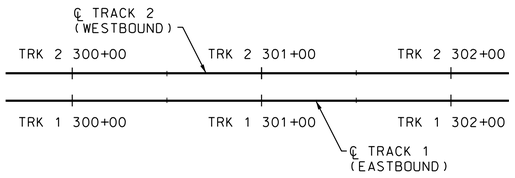
GENERAL NOTES

1. HORIZONTAL CONTROL: THIS PROJECT IS ORIENTATED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM NAD 83/91.
2. VERTICAL CONTROL: THE LOCATION AND ELEVATION OF BENCH MARKS ARE SHOWN ON THE PLANS. ALL ELEVATIONS ARE IN FEET AND ARE BASED ON NAVD 1988 DATUM.
3. BASE TOPOGRAPHIC SURVEY INFORMATION FOR THIS CONTRACT WAS ESTABLISHED FROM AERIAL PHOTOGRAMMETRIC MAPPING IN MARCH OF 2007. SUPPLEMENTAL FIELD SURVEYS WERE PERFORMED AND PLOTTED BY PINNACLE MAPPING TECHNOLOGIES IN MARCH OF 2007.
4. ALL INVERT ELEVATIONS ARE APPROXIMATE. INVERT ELEVATIONS OF DRAINAGE INLETS AND PIPES MAY BE MODIFIED AS DIRECTED BY THE ENGINEER TO MEET CONDITIONS ENCOUNTERED DURING INSTALLATION OF DRAINAGE STRUCTURES.
5. ALL DRAINAGE PIPES AND DITCHES SHALL BE CONSTRUCTED ON A UNIFORM GRADE BETWEEN INVERT ELEVATIONS NOTED ON THE PLANS. UNLESS INDICATED OTHERWISE ON THE PLANS OR DETAILS.
6. THE LOCATION AND LENGTH OF DRAINAGE PIPE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ORDERING.
7. TYPE AND INVERT OF DITCHES ARE NOTED ON THE PLANS. DITCHES WILL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO GRADE FOR POSITIVE DRAINAGE WITHIN THE PARKING LOT, AT ALL ENTRANCES, AND ALONG ALL CURB LINES IN ACCORDANCE WITH THE PROPOSED DRAINAGE PATTERNS AS SHOWN ON THE PLANS, AND THOSE EXISTING WHERE APPLICABLE. IN NO CASE SHALL THIS REQUIREMENT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO CONSTRUCT ALL FACILITIES WITHIN ADA REGULATIONS.
9. ALL EXISTING STORM DRAIN STRUCTURES, SEWER MANHOLES, UTILITY MANHOLES, INLETS, VALVE BOXES, VAULTS, ETC. SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET THE FINISHED GRADE ELEVATION AS NOTED ON THE PLANS, UNLESS THESE APPURTENANCES ARE ABANDONED UNDER THIS CONTRACT.
10. THE EXISTING UTILITIES AND OBSTRUCTIONS SHOWN ON THESE PLANS ARE FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY ALL CONCERNED UTILITY OWNERS PRIOR TO GRADING OPERATIONS.
11. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION SHALL BE MADE AT THE CONTRACTOR'S EXPENSE BEFORE PROCEEDING WITH CONSTRUCTION.
12. ANY DISTURBED AREAS NOT PAVED OR LANDSCAPED SHALL RECEIVE 4" TOPSOIL, SEEDING AND MULCH, UNLESS OTHERWISE NOTED ON THE PLANS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAGING CONSTRUCTION SUCH THAT A SOIL STOCKPILE SUITABLE FOR FILL MATERIAL AND TOPSOIL CAN BE MAINTAINED ON-SITE.
14. MATERIAL REMOVED DURING CONSTRUCTION INCLUDING ASPHALT, SIGNS, LIGHT POLES, ETC. SHALL BECOME THE CONTRACTOR'S PROPERTY UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE TO RESET ANY SIGN POST OR OTHER APPURTENANCES REMOVED DURING THE CONSTRUCTION TO FACILITATE HIS WORK, EXCEPT WHERE SPECIFIED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL PERFORM ALL WORK IN A MANNER THAT WILL INSURE THE SAFETY OF THE GENERAL PUBLIC, COMMUTERS, AND EMPLOYEES OF THE CONTRACTOR, MTA, ETC.
17. ANY DAMAGE TO EXISTING CURBING ADJACENT TO NEW PAVING SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
18. UNLESS OTHERWISE NOTED, ALL SAW CUTTING SHALL BE FULL DEPTH.
19. PRIOR TO PERFORMING EXCAVATION OR GRADING AT ANY LOCATION, CONTACT "MISS UTILITY", 1-800-257-7777 AT LEAST 48 HOURS IN ADVANCE OF THE PROPOSED WORK.
20. THE CONTRACTOR SHALL NOTE THE HISTORIC NATURE OF THE SURROUNDING COMMUNITY. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE NOISE FROM CONSTRUCTION ACTIVITY ON-SITE.
21. A COPY OF THE CONTRACTOR'S SITE SPECIFIC PROJECT SAFETY PLAN SHOULD BE SUBMITTED TO THE OFFICE OF SAFETY & RISK MANAGEMENT (OSRM) FOR REVIEW AND COMMENT. A COPY SHOULD BE FORWARDED TO DENNIS RAFFERTY/DAVID AUCHU IN THE OFFICE OF SAFETY & RISK MANAGEMENT. THE CONTRACTOR SHALL NOT BEGIN ANY WORK ACTIVITIES ON SITE UNTIL THE PROJECT SAFETY PLAN HAS BEEN REVIEWED AND FOUND TO BE ACCEPTABLE BY REPRESENTATIVES FROM THE OSRM.
22. OCS SUPPORT LOCATIONS ARE PRESENTED ON THE CIVIL PLANS FOR GRAPHICAL REPRESENTATION ONLY. AS-DESIGNED SUPPORT LAYOUTS AND CONFIGURATIONS TO BE DEVELOPED IN FINAL DESIGN.

ADA SUMMARY

REFER TO ADA GENERAL NOTES SHEET

STATIONING KEY



LEGEND - EXISTING

- EXISTING BUILDING
- EXISTING SIDEWALK
- EXISTING RIGHT OF WAY
- EXISTING WETLAND BOUNDARY
- EXISTING TRAFFIC SIGNAL TO REMAIN
- EXISTING TRAFFIC SIGNAL TO BE REMOVED
- EXISTING ACTIVE RECOVERY WELL IN LOWER ZONE
- EXISTING ACTIVE RECOVERY WELL IN UPPER ZONE
- EXISTING LEFT TURN ELIMINATED WITH PROPOSED IMPROVEMENTS
- EXISTING TRAFFIC PATTERN

LEGEND - PROPOSED

- PROPOSED BUILDING DISPLACEMENT
- BY-OTHERS — PROPOSED IMPROVEMENTS BY OTHERS
- PROPOSED CONCRETE
- PAVEMENT REMOVAL
- PERMEABLE PAVEMENT
- PROPOSED FULL DEPTH ASPHALT PAVEMENT
- PROPOSED WEDGE/LEVEL OR MILL AND OVERLAY
- PROPOSED CATENARY POLE
- PROPOSED TRAFFIC SIGNAL
- PROPOSED TRAFFIC PATTERN
- PROPOSED BUMPING POST

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming
WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. ____ Expiration Date ____

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DESGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

GENERAL NOTES AND LEGEND

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. GN-8002
SHEET NO. 3 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 08\1042pGN8002.dgn
11/13/2013

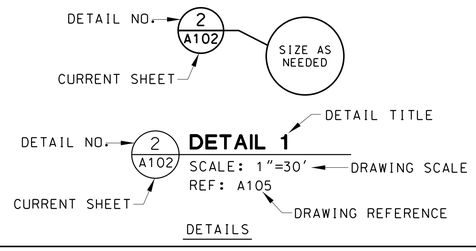
ABBREVIATIONS

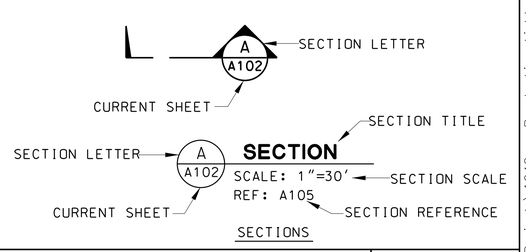
△	TOTAL CENTRAL ANGLE OF SPIRAL AND CIRCULAR CURVES
△c	CENTRAL ANGLE OF CIRCULAR CURVE
AASHTO	AMERICAN SOCIETY OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ASPHALT CONCRETE
ABAN	ABANDONED
ABUT	ABUTMENT
ADAAG	ADA ACCESSIBILITY GUIDELINES
AGIP	AT GRADE INLET PROTECTION
AGG	AGGREGATE
AH, AHD	AHEAD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
APPROX	APPROXIMATE
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
@	AT
BIT	BITUMINOUS
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BK	BACK
BLDG	BUILDING
℄	BASELINE
BLVD	BOULEVARD
BM	BENCHMARK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
CB	CATCH BASIN
CCT	CAPITAL CRESCENT TRAIL
C/C	CENTER TO CENTER
CD	STONE CHECK DAM
CEM	CEMENT
CG	CONCRETE GUTTER
C&G	CURB AND GUTTER
CGSP	CORR. GALVANIZED STEEL PIPE
CIP	CAST IRON PIPE
℄	CENTERLINE
CL	CLASS
CMP	CORRUGATED METAL PIPE
CLR	CLEAR
CO	CLEAN OUT
COL	COLUMN
COMB	COMBINED SEWER
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CRB	CURB LINE
CSXT	CSX TRANSPORTATION INCORPORATED
C/T	CROSSOVER TRACK
CTB	CEMENT TREATED BASE
D_C	DEGREE OF CIRCULAR CURVE
DEFL	DEFLECTION
DEG, °	DEGREES
D/I	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DN	DOWNSPOUT
DRWY	DRIVEWAY
DWG	DRAWING
DWLG	DWELLING
E	EAST
EA	EACH
EB	EASTBOUND
EL	ELEVATION
ELCP	ELLIPTICAL CONCRETE PIPE
ELEC	ELECTRIC
EM	ELECTRIC METER
EMB	EMBANKMENT
E/P	EDGE OF PAVEMENT
EQ	EQUAL
EQL	EQUILATERAL
EQN	EQUATION
E/R	EDGE OF ROAD
E/S	EDGE OF STREAM
ESMT	EASEMENT
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FC	FIELD CONNECTION
FF	FAR FACE
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOOR, FLOWLINE
FR	FRAME
FT, ′	FOOT, FEET
F/T	FUTURE TRACK
FUT	FUTURE
GALV	GALVANIZED
GM	GAS METER
GND	GROUND
GR	GRADE
GV	GAS VALVE
GW	GUY WIRE
H	HEIGHT
HBX	HAND BOX
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
HP	HIGH POINT
H/W	HEAD WALL
I	INLET
ID	INSIDE DIAMETER
IN, ″	INCH
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
LB	POUND
Lc	TOTAL LENGTH OF CIRCULAR CURVE, IN FEET
LF	LINEAR FEET
LOD	LIMIT OF DISTURBANCE
LP	LOW POINT
LPLG	LEAD PLUG (SURVEY MONUMENT)
LR	LONG RADIUS
LRT	LIGHT RAIL TRANSIT
LRV	LIGHT RAIL VEHICLE
LT	LEFT
MARC	MARYLAND RAIL COMMUTER
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MIN, ′	MINUTE
MISC	MISCELLANEOUS
MON	MONUMENT
MPH	MILES PER HOUR
MSL	MEAN SEA LEVEL
MTA	MARYLAND TRANSIT ADMINISTRATION
N	NORTH
N/A	NOT APPLICABLE
NB	NORTHBOUND
N/E	NORTH LINE - EAST TRACK
NF	NEAR FACE
N/F	NOW OR FORMERLY
NIC	NOT IN CONTRACT
NO, #	NUMBER
NTS	NOT TO SCALE
N/W	NORTH LINE-WEST TRACK
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
PAVT	PAVEMENT
PC	POINT OF CHANGE FROM TANGENT TO CIRCULAR CURVE
PCC	POINT OF COMPOUND CIRCULAR CURVES
PED	PEDESTRIAN
PERF	PERFORATED
PERM	PERMANENT
PGE	PROFILE GRADE ELEVATION
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION OF TWO TANGENTS
PK	PARKER-KALON NAIL (SURVEY MARKER)
PKG	PARKING
ℙ	PROPERTY LINE
PLAT	PLATFORM
POB	POINT OF BEGINNING
POC	POINT ON CURVE
POE	POINT OF ENDING
POL	POINT ON LINE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVES
PROP	PROPOSED
PST	PORTABLE SEDIMENT TANK
PT	POINT OF CHANGE FROM CIRCULAR CURVE TO TANGENT
PV	PETROLEUM VALVE
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCEP	REINFORCED CONCRETE ELLIPTICAL PIPE
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
RET	RETAINING
RP	RAMP
RR	RAILROAD
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SB	SOUTHBOUND
SCE	STABILIZED CONSTRUCTION ENTRANCE
SCH	SCHEDULE
SD	STORM DRAIN
S/E	SOUTH LINE - EAST TRACK
SEC, ″	SECOND
SECT	SECTION
SF	SILT FENCE
S.F.	SQUARE FOOT
SG	SUBGRADE
SHA	STATE HIGHWAY ADMINISTRATION
SHLD	SHOULDER
SHT	SHEET
SIG	SIGNAL
SLP	SLOPE
SP	SPACING
STA	STATION
STD	STANDARD
STL	STEEL
STR	STRUCTURE
SURF	SURFACE
SW	SIDE WALK
S/W	SOUTH LINE - WEST TRACK
SWM	STORMWATER MANAGEMENT
TB	TEST BORING
Tc	TANGENT LENGTH OF CIRCULAR CURVE
T/C	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
T/G	TOP OF GROUND
T.G.	TOP OF GRATE
TOPO	TOPOGRAPHY
TP	TEST PIT
T/P	TOP OF PAVEMENT
T/R	TOP OF RAIL
TRK	TRACK
TR SIG	TRAFFIC SIGNAL
T.S.	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UNO	UNLESS NOTED OTHERWISE
V	VELOCITY
VAR	VARIES
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WAT	WATER
WB	WESTBOUND
WHSE	WAREHOUSE
WM	WATER METER
WMATA	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
WP	WORK POINT
WS	WATER SURFACE
WV	WATER VALVE
X-ING	CROSSING
X-OVER	CROSSOVER

SYMBOLS

EXISTING		PROPOSED
	RIGHT-OF-WAY	
ℙ	PROPERTY LINE	ℙ
	PARCEL NUMBER	#500
	MATCHLINE AND SECTION LINE	
	TRACK CENTER LINE	℄ TRACK 1
℄	CENTER LINE	℄
	BASE LINE	ℬ
	POINT OF INTERSECTION OF TANGENTS	
	STATION EQUATION	STA AH = / STA BK
TRAV PT. 10 △	PRIMARY HORIZONTAL CONTROL - TRAVERSE POINT	
BM	BENCH MARK	
TB 18	TEST BORING 18	
TP 22	TEST PIT	
	STRUCTURE OUTLINE	
	METAL FENCE (CHAIN LINK)	
	ORNAMENTAL METAL FENCE	
	WOOD FENCE	
	RAILROAD TRACKS	
CC	CONCRETE CURB	
C&G	CONCRETE CURB AND GUTTER	
	DETECTABLE WARNING SURFACE	
WALL	WALLS	WALL
	TRAFFIC BARRIER	
	BILLBOARD OR LARGE SIGN	
OR	SIGNS - NON-TRAFFIC	
	SIGNS - TRAFFIC	OR
	CUT SLOPE - TOP	C
	FILL SLOPE - TOE	F

EXISTING		PROPOSED
140	MAJOR CONTOUR LINE	140
141	MINOR CONTOUR LINE	141
103.1 ×	SPOT ELEVATION	103.1
▽ EL.	HIGH WATER	▼ EL.
	DITCH	
	SWALE	
	SURFACE FLOW DIRECTION	
27″ RCP (SD)	STORM DRAIN LINE	27″ RCP
UD	UNDERDRAIN LINE	UD
DI	DROP INLET, CATCH BASIN OR DRAIN	I-1
	CULVERT WITH HEADWALLS	
Ⓔ Ⓖ (50) (55) Ⓣ Ⓦ	MANHOLE (TYPE AS NOTED)	M-1
SAN CO SAN	CLEANOUT	CO SAN
WM 8″ W WV	WATER LINE	12″ W
12″ G GV	GAS LINE	6″ G
8″ SAN (55)	SANITARY LINE	12″ SAN
T Ⓣ	UNDERGROUND TELEPHONE LINE	2″ T
T	OVERHEAD TELEPHONE LINE	T
E JB	UNDERGROUND ELECTRIC LINE	E
E	OVERHEAD ELECTRIC LINE	E
E	ELECTRICAL JUNCTION BOX	
E	ELECTRIC METER	
FO	UNDERGROUND FIBER OPTIC LINE	FO
FO	OVERHEAD FIBER OPTIC LINE	FO
POLE NO.	UTILITY POLE	
	LIGHT POLE	
WV FH	FIRE HYDRANT	WM FH
	ITEM TO BE REMOVED	R





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MARYLAND TRANSIT ADMINISTRATION
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DESGN
DRAWN
CHECK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

CIVIL ABBREVIATIONS AND SYMBOLS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. GN-8003
SHEET NO. 4 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\131 GEC Master CADD Files\Submittals\002 - Preliminary Engineering\Volume 08\1042pGN8003.dgn
11/13/2013

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4	GN-8003	CIVIL ABBREVIATIONS AND SYMBOLS
5	GI-8101	INDEX OF SHEETS - VOLUME 8 SHEET 1
6	GI-8102	INDEX OF SHEETS - VOLUME 8 SHEET 2
7	GI-8103	INDEX OF SHEETS - VOLUME 8 SHEET 3
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9	CV-L02	LYTTONSVILLE YARD FACILITY EXISTING CONDITIONS PLAN - SHEET 2 OF 3
10	CV-L03	LYTTONSVILLE YARD FACILITY EXISTING CONDITIONS PLAN - SHEET 3 OF 3
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14	CV-L07	LYTTONSVILLE YARD FACILITY CIVIL SITE PLAN - SHEET 1 OF 3
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MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. _____ Expiration Date _____

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

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DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220

DRAWING NO. GI-8101

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11/19/2013

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DESIGN | DRAWN | CHECK | APPR

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

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DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220

DRAWING NO. GI-8102

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SHEET 3

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. GI-8103
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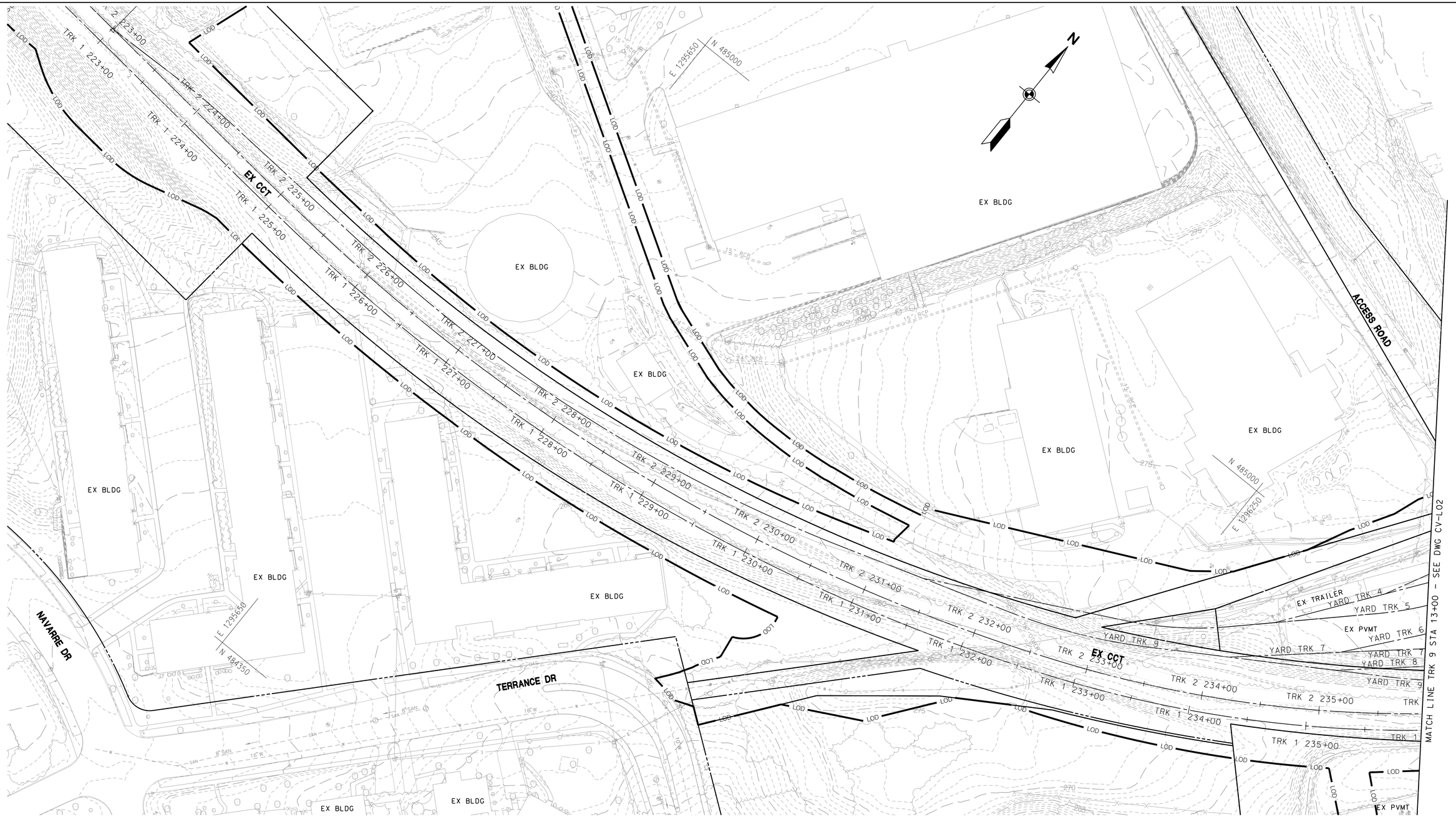
11/19/2013



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PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
EXISTING CONDITIONS PLAN – SHEET 1 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

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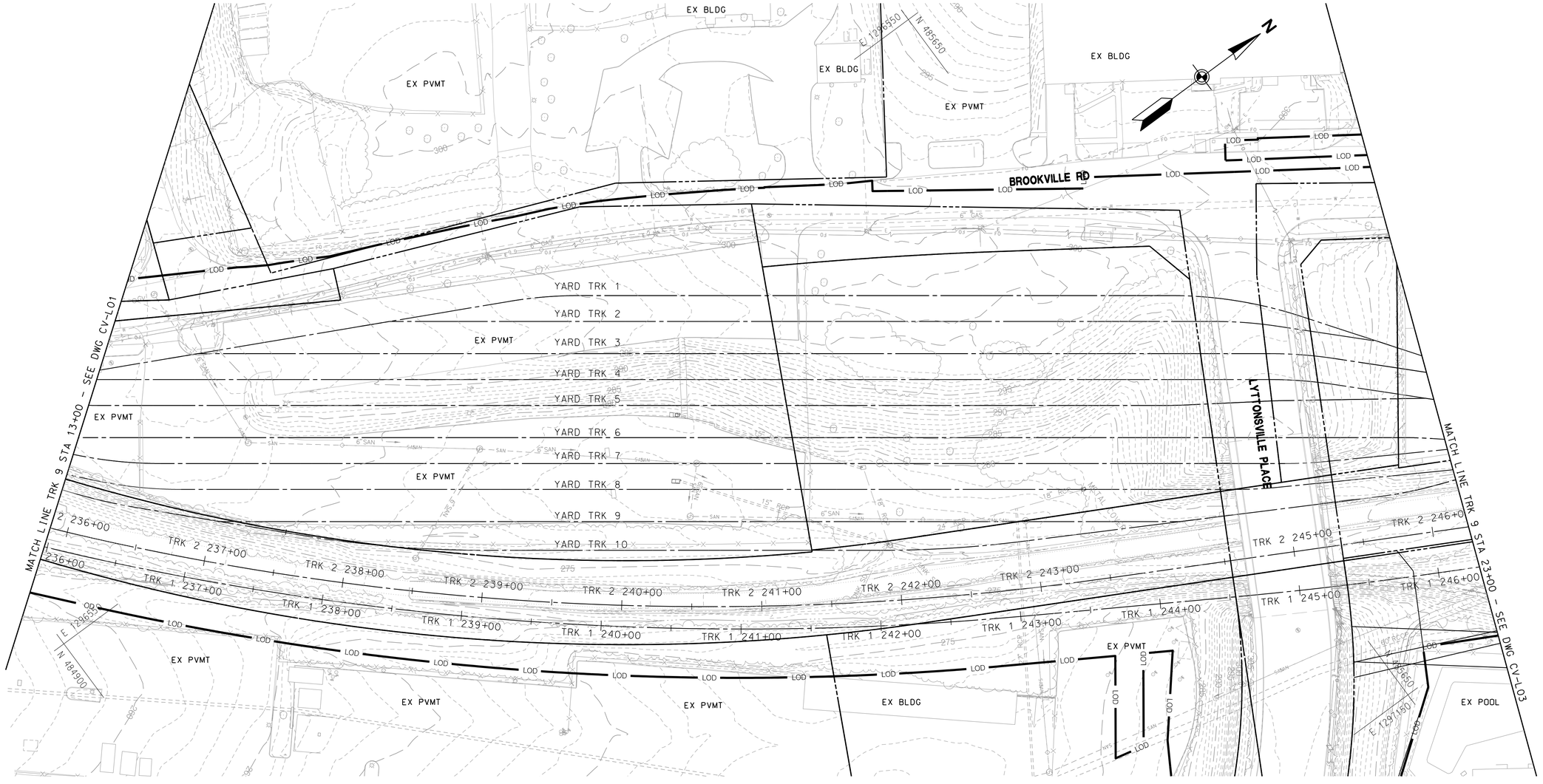
11/18/2013



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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
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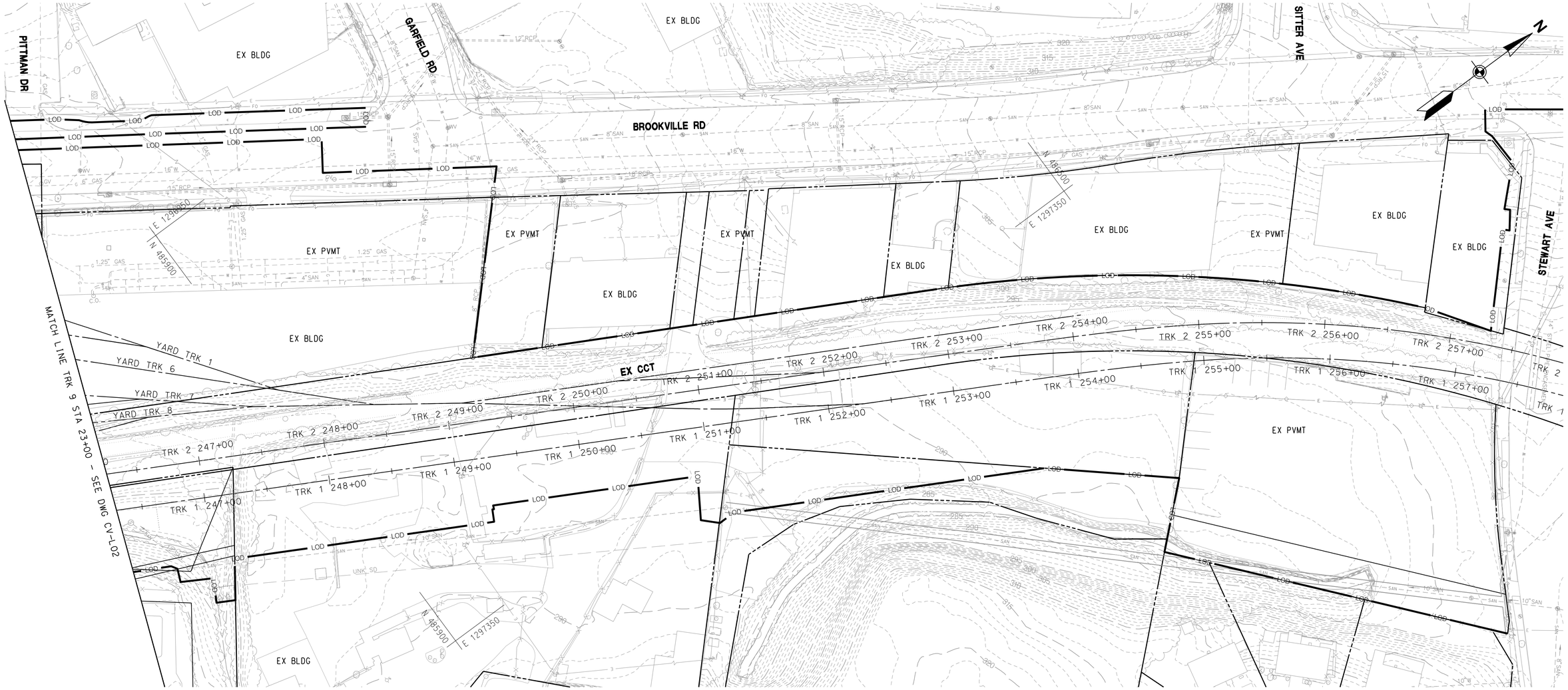

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PRELIMINARY ENGINEERING
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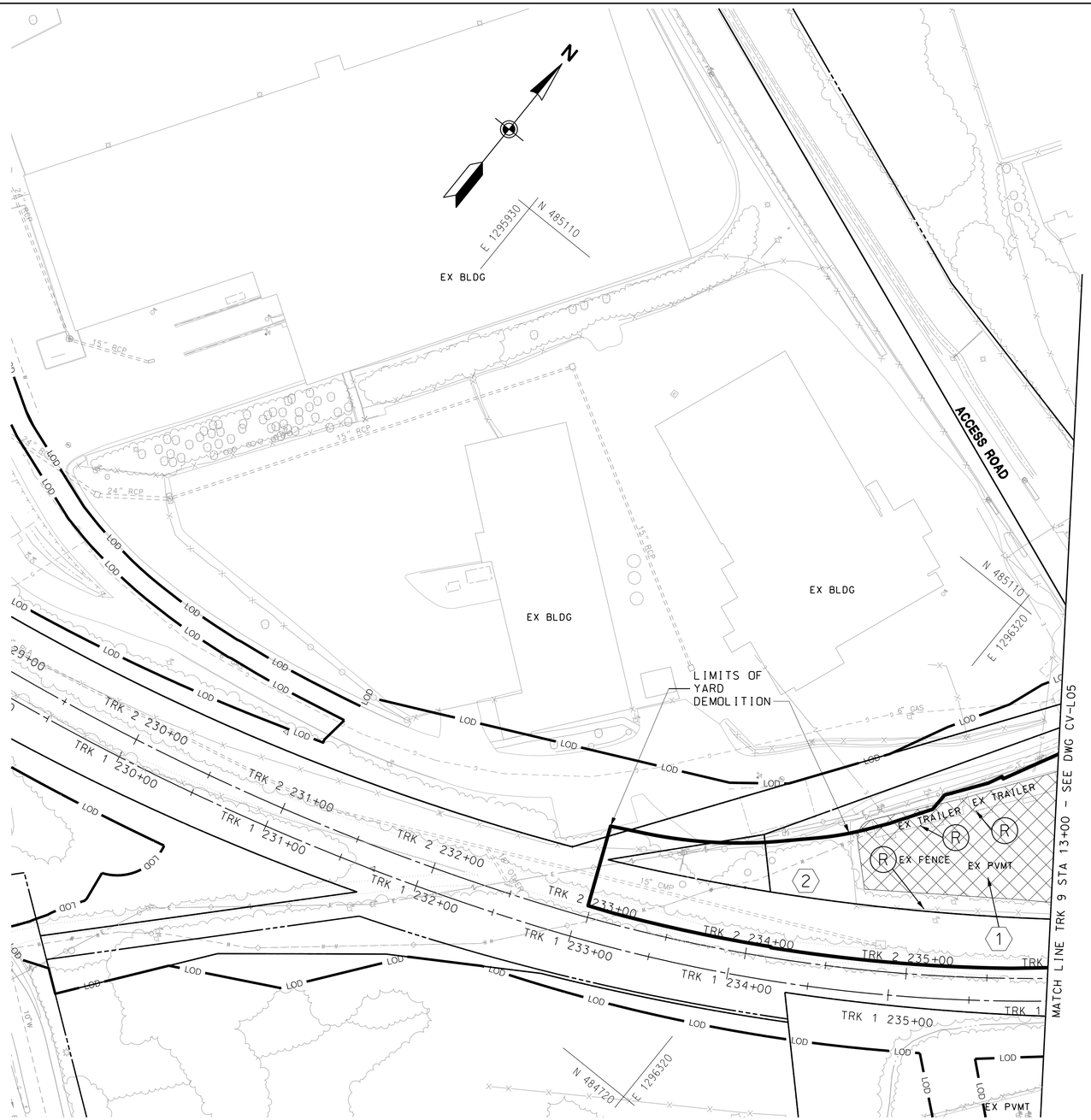
LYTTONSVILLE YARD FACILITY
EXISTING CONDITIONS PLAN – SHEET 3 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–L03
SHEET NO. 10 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pCV1103.dgn
11/27/2013



SEE UTILITY RELOCATION PLANS
FOR UTILITY RELOCATION DWGS

40' 0 40' 80'
SCALE: 1"=40'

DEMOLITION GENERAL NOTES:

1. SEE UTILITY PLANS FOR UTILITY DEMOLITION.
2. EXISTING FEATURES DESIGNATED AS "TO REMAIN" SHALL BE PRESERVED THROUGH CONSTRUCTION AND REPLACED BY CONTRACTOR IF DAMAGED.

KEYED NOTES

(1) REMOVE EXISTING PAVEMENT

(2) REMOVE EXISTING TREES

LEGEND

REMOVE EXISTING PAVEMENT

(R) REMOVE EXISTING FEATURE

— X — EX. U/G UTILITY TO BE REMOVED

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESIGN	BWJ
DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
DEMOLITION PLAN – SHEET 1 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–L04
SHEET NO. 11 OF 443

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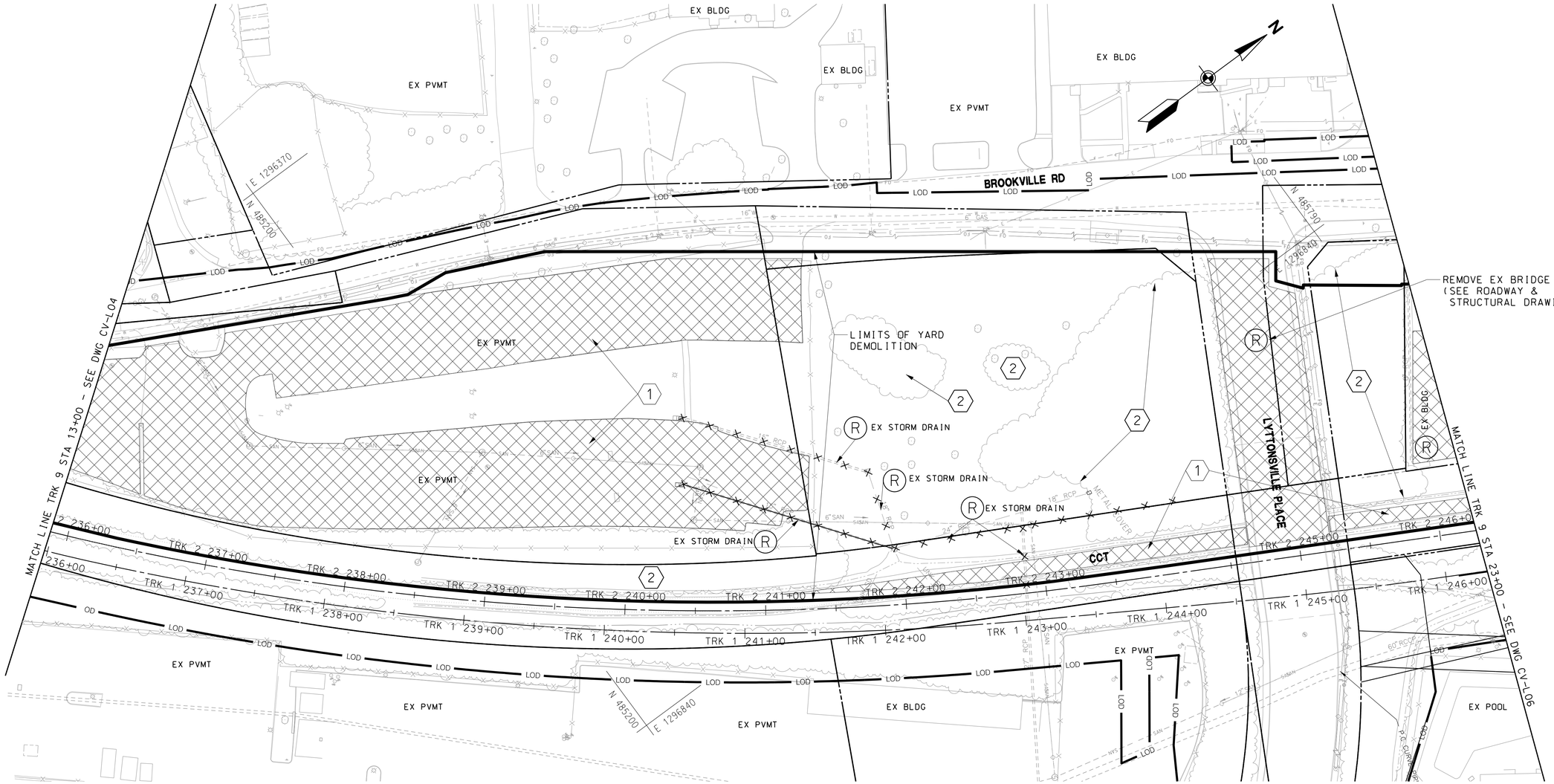
11/18/2013



SEE UTILITY RELOCATION PLANS
FOR UTILITY RELOCATION DWGS

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LEGEND

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(R) REMOVE EXISTING FEATURE

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DEMOLITION PLAN – SHEET 2 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–L05
SHEET NO. 12 OF 443

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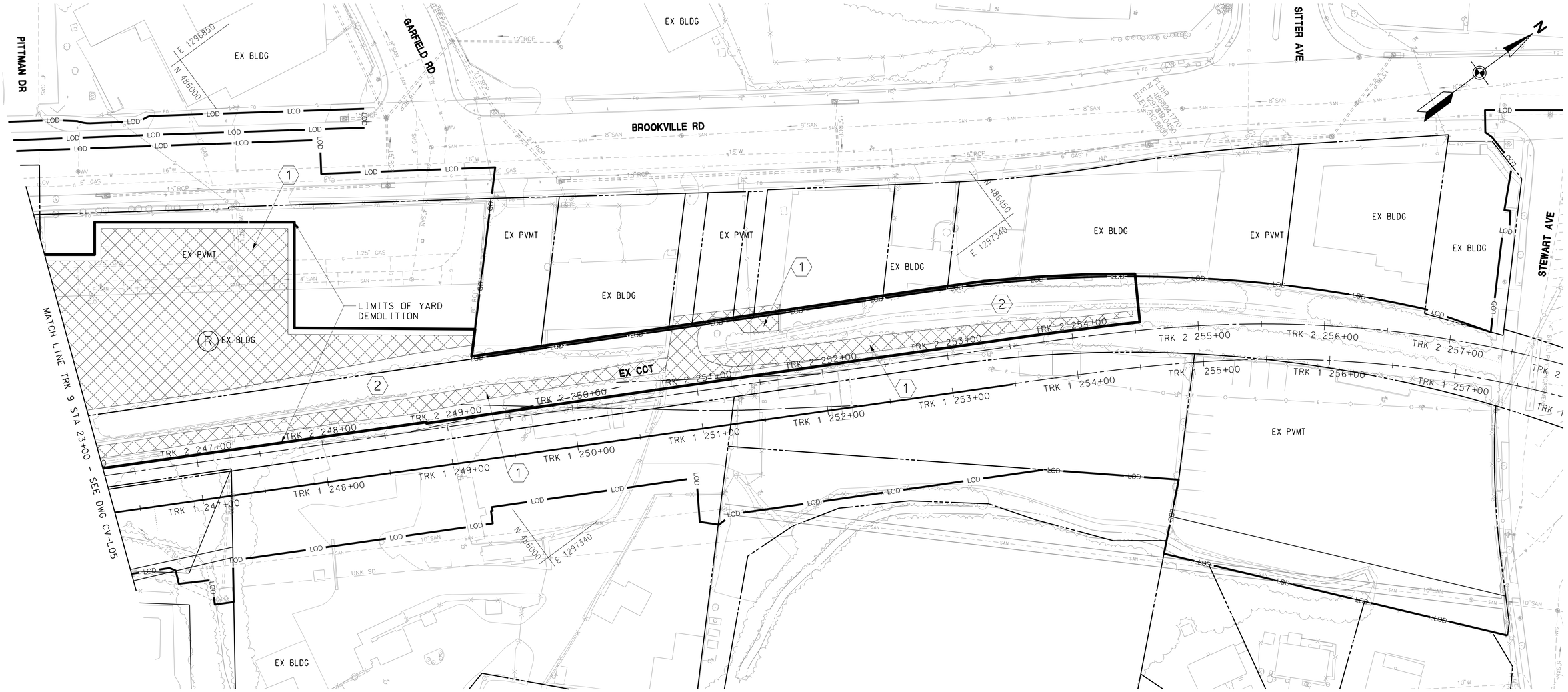
11/18/2013



SEE UTILITY RELOCATOIN PLANS FOR UTILITY RELOCATOIN DWGS

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(2) REMOVE EXISTING TREES

LEGEND

REMOVE EXISTING PAVEMENT

(R) REMOVE EXISTING FEATURE

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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CHECK	AUO
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

DEMOLITION PLAN – SHEET 3 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. CV-L06

SHEET NO. 13 OF 443

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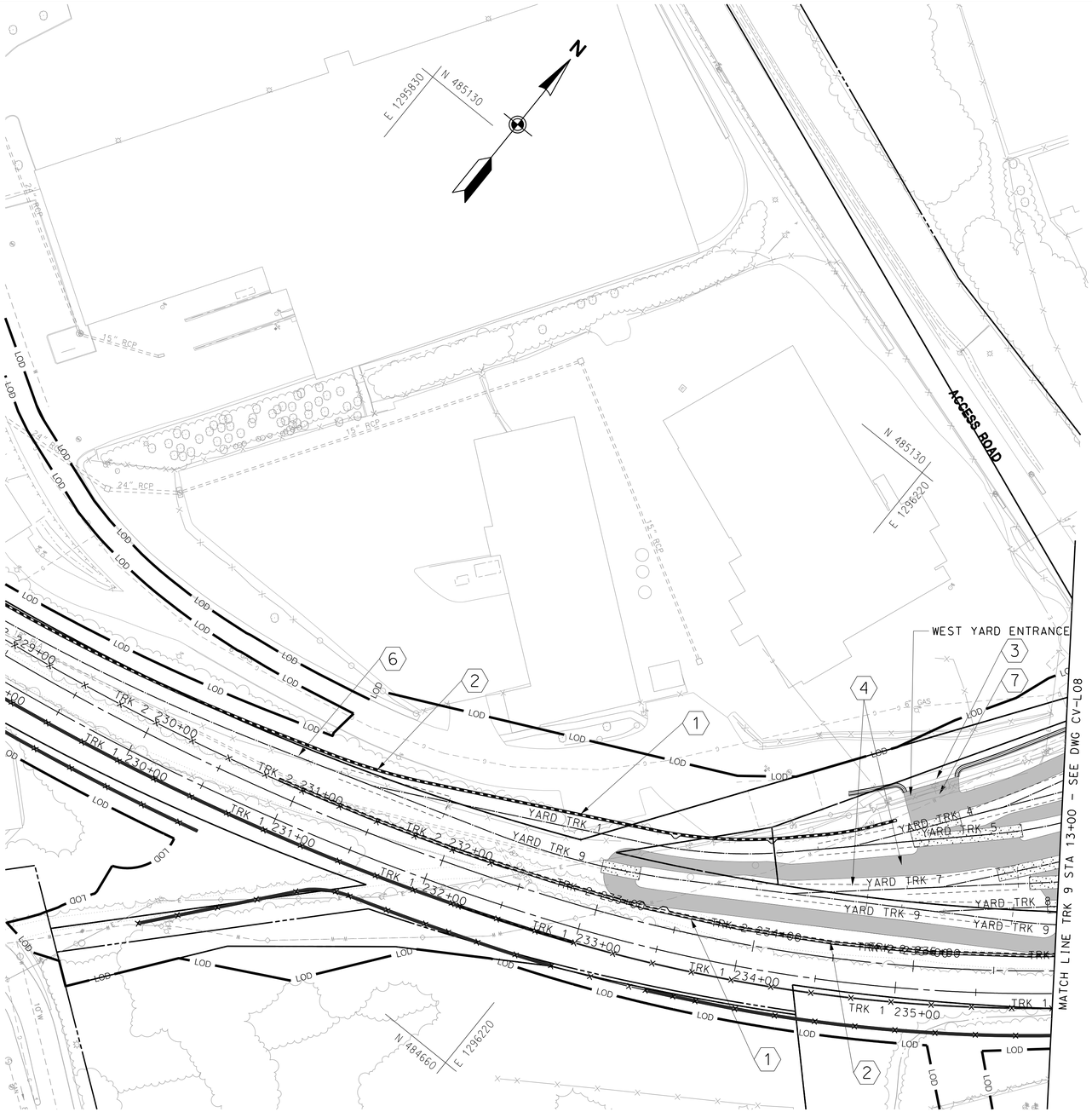
11/18/2013



PLAN NOTES

1. ALL RADII ARE SHOWN 5' UNLESS OTHERWISE SHOWN
2. ALL DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT
3. REFER TO TRACK PLANS FOR BALLAST AND TRACK DETAILS
4. ALL DIMENSIONS SHOWN ARE IN FEET

KEYED NOTES

1. INSTALL 6' CHAIN LINK FENCE. SEE DETAILS
2. INSTALL RETAINING WALL. SEE STRUCTURAL PLANS.
3. SEE ALIGNMENT PLANS AND INTERSECTION DETAILS FOR WORK OUTSIDE YARD LIMITS.
4. SEE LYTTONSVILLE YARD FACILITY ALIGNMENT PLANS AND TYPICAL SECTIONS FOR MAINTENANCE ROAD AND BALLAST LIMITS
5. SEE LYTTONSVILLE STATION PLANS FOR WORK ASSOCIATED WITH LYTTONSVILLE STATION
6. INSTALL KEY PASS OPERATED SWING GATE ASSEMBLY. SEE ARCHITECTURAL PLANS FOR DETAILS.
7. INSTALL KEY PASS OPERATED MOTORIZED SLIDE GATE ASSEMBLY

LEGEND

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE

40' 0 40' 80'
SCALE: 1"=40'

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CIVIL SITE PLAN – SHEET 1 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L07
SHEET NO. 14 OF 443

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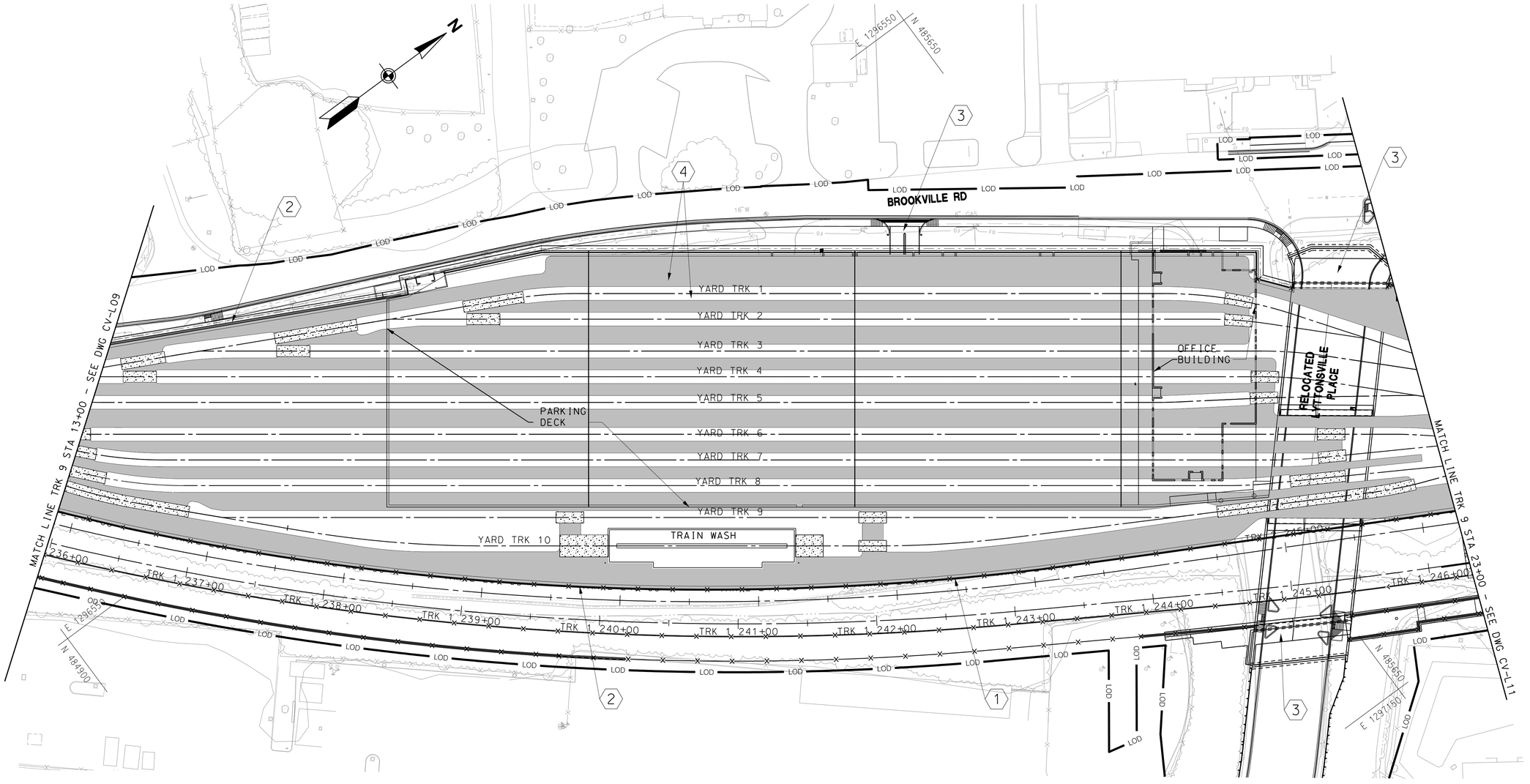
11/18/2013



PLAN NOTES

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2. ALL DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT
3. REFER TO TRACK PLANS FOR BALLAST AND TRACK DETAILS
4. ALL DIMENSIONS SHOWN ARE IN FEET

KEYED NOTES

(1) INSTALL 6' CHAIN LINK FENCE.

(2) INSTALL RETAINING WALL. SEE STRUCTURAL PLANS.

(3) SEE ALIGNMENT PLANS AND INTERSECTION DETAILS FOR WORK OUTSIDE YARD LIMITS.

(4) SEE LYTTONSVILLE YARD FACILITY ALIGNMENT PLANS AND TYPICAL SECTIONS FOR MAINTENANCE ROAD AND BALLAST LIMITS

(5) SEE LYTTONSVILLE STATION PLANS FOR WORK ASSOCIATED WITH LYTTONSVILLE STATION

LEGEND

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE

40' 0 40' 80'
SCALE: 1"=40'

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CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CIVIL SITE PLAN – SHEET 2 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L08
SHEET NO. 15 OF 443

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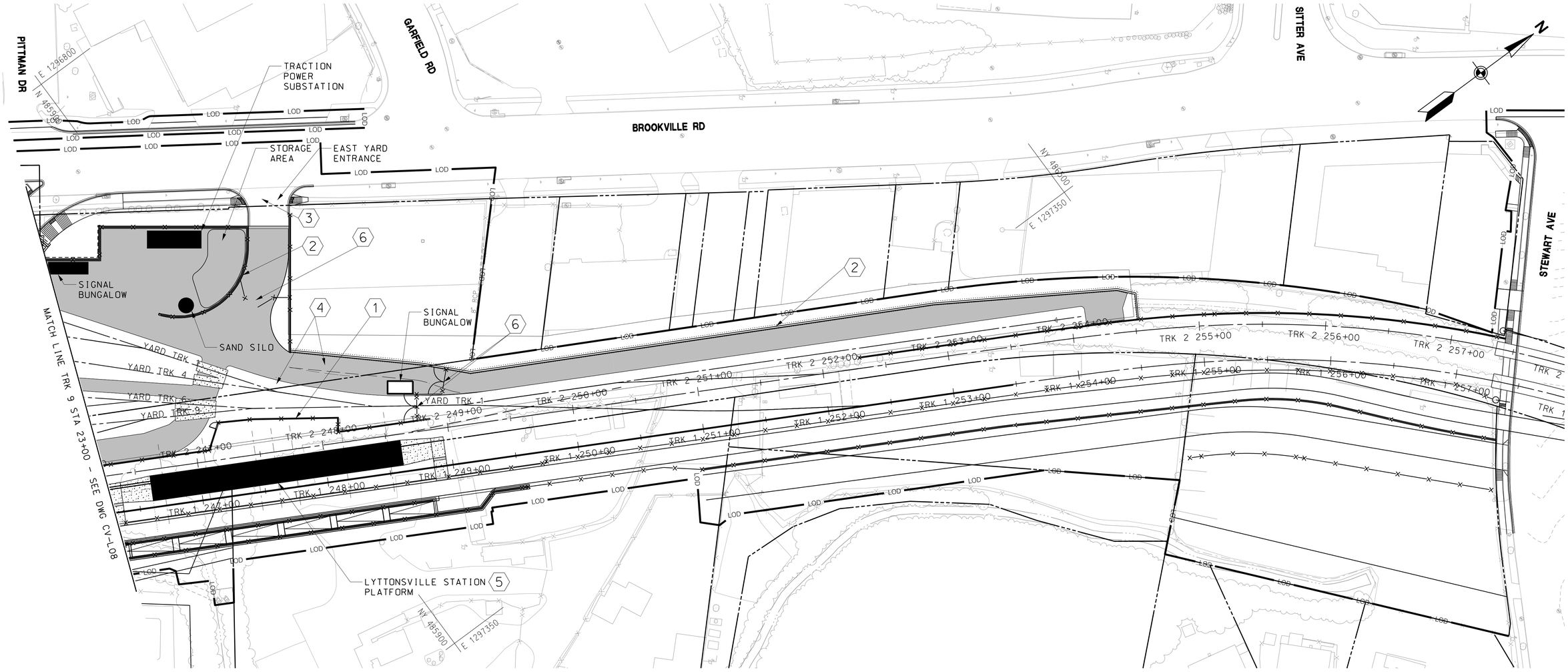
12/2/2013



KEYED NOTES

1. INSTALL 6' CHAIN LINK FENCE.
2. INSTALL RETAINING WALL. SEE STRUCTURAL PLANS.
3. SEE ALIGNMENT PLANS AND INTERSECTION DETAILS FOR WORK OUTSIDE YARD LIMITS.
4. SEE LYTTONSVILLE YARD FACILITY ALIGNMENT PLANS AND TYPICAL SECTIONS FOR MAINTENANCE ROAD AND BALLAST LIMITS
5. SEE LYTTONSVILLE STATION PLANS FOR WORK ASSOCIATED WITH LYTTONSVILLE STATION
6. INSTALL KEY PASS OPERATED SWING GATE ASSEMBLY. SEE ARCHITECTURAL PLANS FOR DETAILS.
7. INSTALL KEY PASS OPERATED MOTORIZED SLIDE GATE ASSEMBLY

LEGEND

PROPOSED ASPHALT PAVEMENT

PROPOSED CONCRETE

PLAN NOTES

1. ALL RADII ARE SHOWN 5' UNLESS OTHERWISE SHOWN
2. ALL DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT
3. REFER TO TRACK PLANS FOR BALLAST AND TRACK DETAILS
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DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CIVIL SITE PLAN – SHEET 3 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–L09
SHEET NO. 16 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pCV1403.dgn
12/2/2013

KEYED NOTES

1. SEE UTILITY RELOCATION PLANS FOR UTILITY RELOCATION.
2. SEE ARCHITECTURAL PLANS FOR EMERGENCY REPAIR PIT.
3. INSTALL FIRE HYDRANT PER WSSC AND MONTGOMERY COUNTY REQUIREMENTS. REPLACE DISTURBED AREA IN KIND OR AS REQUIRED BY WSSC AND MONTGOMERY COUNTY. SEE DETAIL.
4. CONNECT TO EXISTING WATER MAIN AS REQUIRED BY WSSC. REPLACE DISTURBED AREA IN KIND OR AS REQUIRED BY WSSC AND MONTGOMERY COUNTY.

40′ 0 40′ 80′
SCALE: 1"=40′

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APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
SITE / UTILITY PLAN – SHEET 1 of 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. CV–L10
SHEET NO. 17 OF 443

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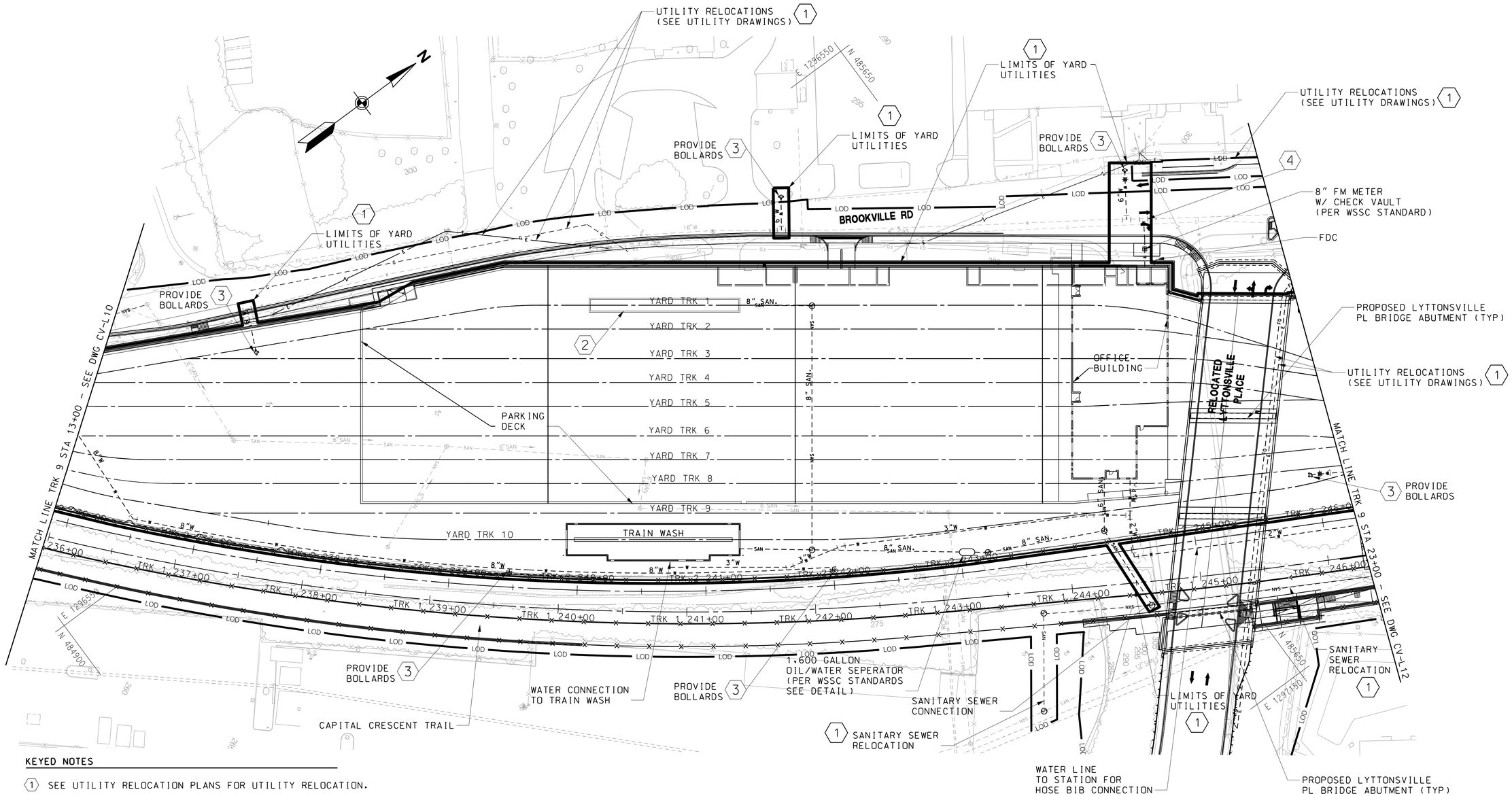
12/6/2013



KEYED NOTES

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2. SEE ARCHITECTURAL PLANS FOR EMERGENCY REPAIR PIT.
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4. CONNECT TO EXISTING WATER MAIN AS REQUIRED BY WSSC. REPLACE DISTURBED AREA IN KIND OR AS REQUIRED BY WSSC AND MONTGOMERY COUNTY.

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DESGN	BWJ
DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
SITE / UTILITY PLAN – SHEET 2 of 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L11
SHEET NO. 18 OF 443

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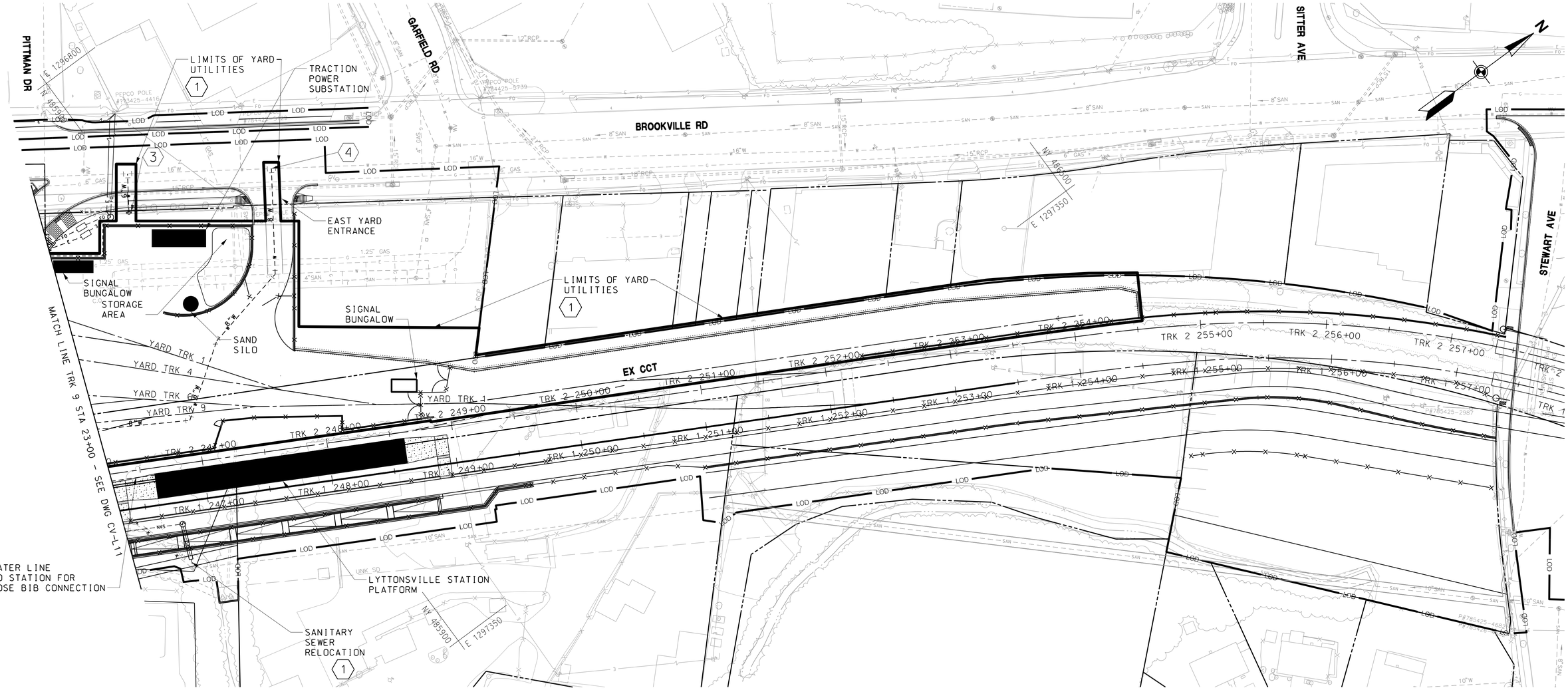
12/6/2013



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40′ 0 40′ 80′
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DESIGN BWJ
DRAWN AKC
CHECK AUO
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
SITE / UTILITY PLAN – SHEET 3 of 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L12
SHEET NO. 19 OF 443

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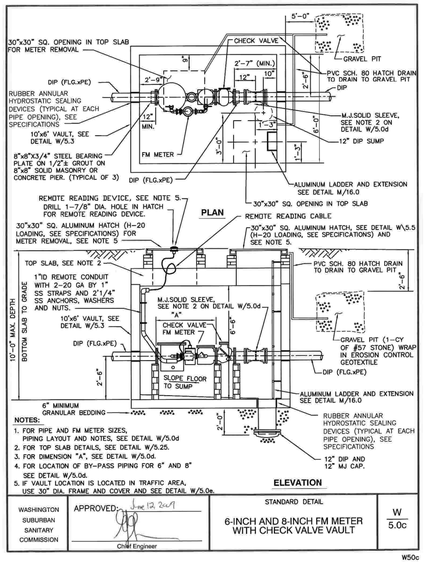
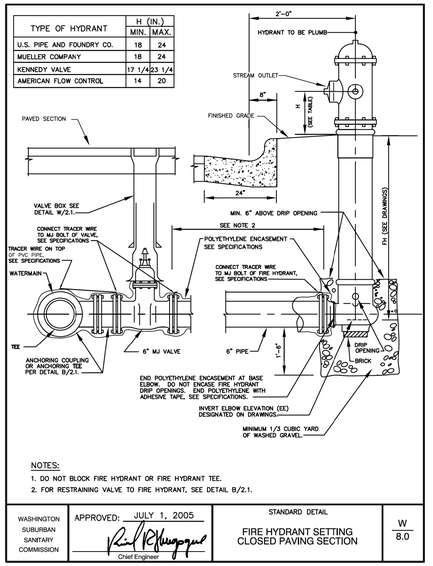
12/6/2013



WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: June 12, 2007 Chief Engineer	STANDARD DETAIL: 6-INCH AND 8-INCH FM METER WITH CHECK VALVE VAULT	W 5.0c

W50c

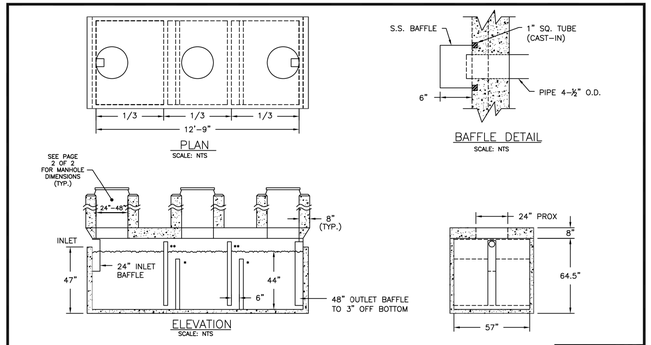


TYPE OF HYDRANT	H (IN.) MIN.	H (IN.) MAX.
U.S. PIPE AND FOUNDRY CO.	18	24
MUELLER COMPANY	18	24
KENNEDY VALVE	17 1/4	23 1/4
AMERICAN FLOW CONTROL	14	20

NOTES:
1. DO NOT BLOCK FIRE HYDRANT OR FIRE HYDRANT TEE.
2. FOR RESTRAINING VALVE TO FIRE HYDRANT, SEE DETAIL B/2.1.

WASHINGTON SUBURBAN SANITARY COMMISSION	APPROVED: JULY 1, 2005 Chief Engineer	STANDARD DETAIL: FIRE HYDRANT SETTING CLOSED PAVING SECTION	W 8.0

W80



DATE: 9-9-08
SHEET NO. 1 OF 2

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WASHINGTON SUBURBAN SANITARY COMMISSION

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DESIGN BWJ
DRAWN AKC
CHECK AUO
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
UTILITY DETAILS
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L13
SHEET NO. 20 OF 443

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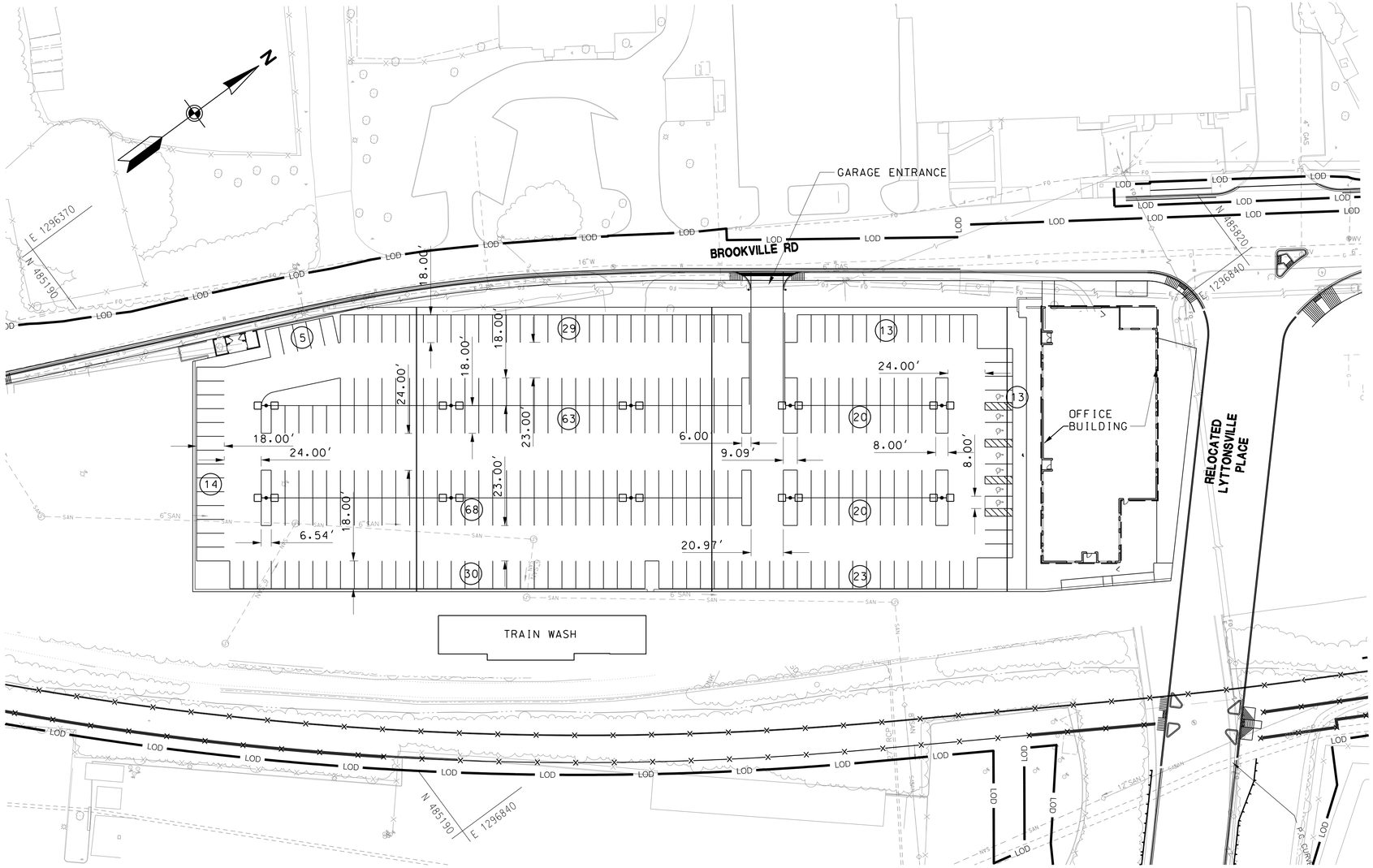
11/18/2013



PARKING TABULATION	
SPACES REQUIRED FOR MTA	90
SPACES REQUIRED FOR M.C.	200
TOTAL SPACES NEEDED	290
TOTAL SPACES PROVIDED	298
TOTAL ADA SPACES NEEEDED	7
VAN SPACES	2
STANDARD ADA	5

NOTES

1. SEE PARKING DECK LEVEL PLAN-LIGHTING FOR PARKING DECK LIGHTING
2. PARKING SPACES 9'x18' UNLESS SPECIFIED. ADA SPACES WILL MEET ADA REQUIREMENTS.

40' 0 40' 80'
SCALE: 1"=40'

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DRAWN	AKC
CHECK	AUO
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PARKING LAYOUT

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. CV-L14
SHEET NO. 21 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pCV301.dgn
11/18/2013

1 SEE TRACK SWM & DRAINAGE PLANS FOR SWM & DRAINAGE OUTSIDE OF YARD LIMITS SEE NOTE

KEYED NOTES

(1) SEE TRACK SWM & DRAINAGE PLANS FOR SWM & DRAINAGE DESIGN DWGS.

40′ 0 40′ 80′
SCALE: 1"=40′

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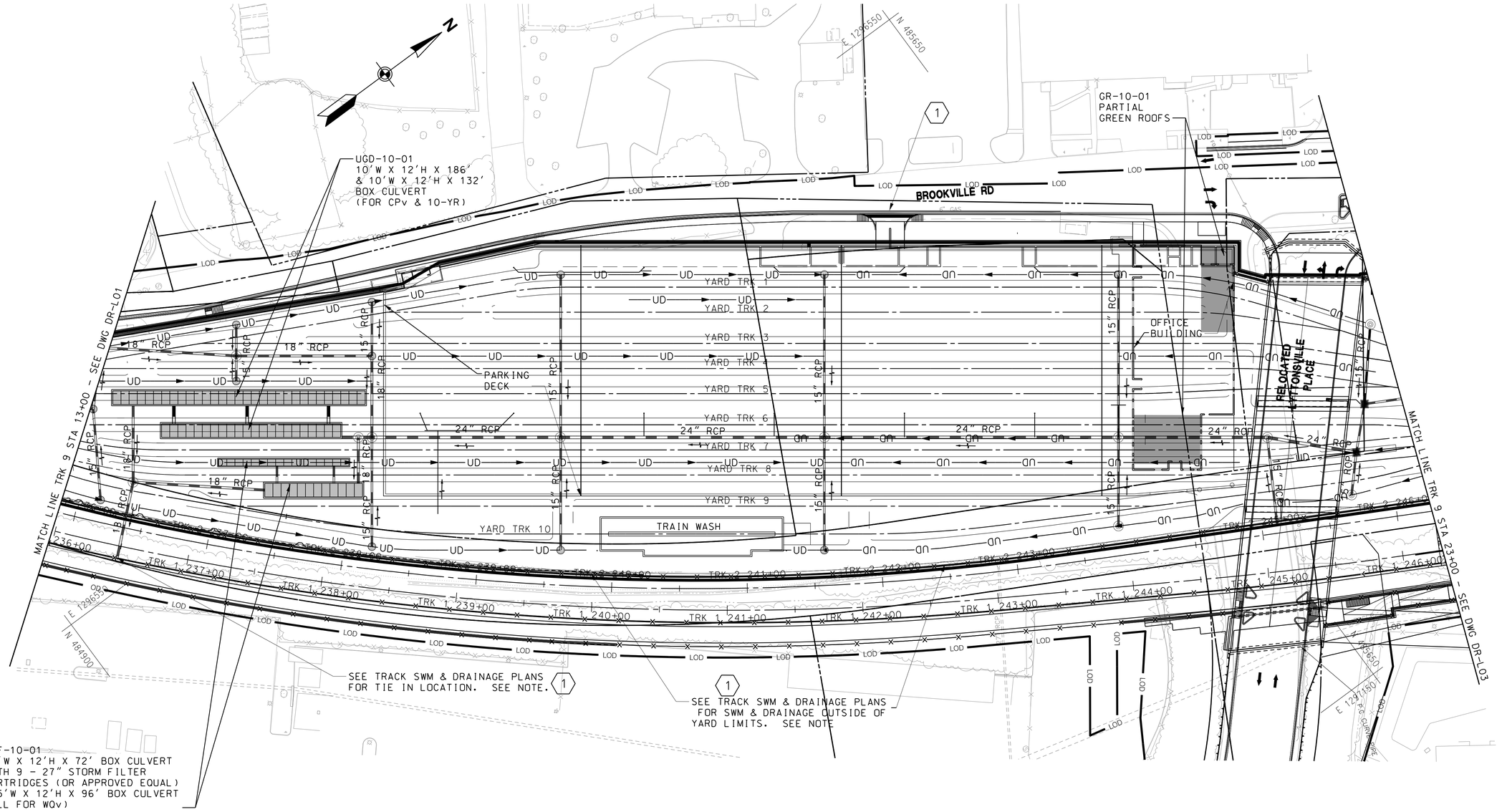
DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
SWM & DRAINAGE PLAN – SHEET 1 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. DR–L01
SHEET NO. 22 OF 443

pw:\\00 - Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pDRI093.dgn
12/2/2013



KEYED NOTES

1. SEE TRACK SWM & DRAINAGE PLANS FOR SWM & DRAINAGE DESIGN DWGS.

40' 0 40' 80'
SCALE: 1"=40'

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Gannett Fleming
WR&A

PROFESSIONAL CERTIFICATION
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DESIGN	BWJ
DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
SWM & DRAINAGE PLAN – SHEET 2 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. DR-L02
SHEET NO. 23 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pDRI094.dgn
12/2/2013

PITTMAN DR

GARFIELD RD

BROOKVILLE RD

SITTER AVE

STEWART AVE

E 1296800

N 485900

TRACTION POWER SUBSTATION

STORAGE AREA

EAST YARD ENTRANCE

SIGNAL BUNGALOW

SIGNAL BUNGALOW

SAND SILO

SEE TRACK SWM & DRAINAGE PLANS FOR SWM & DRAINAGE OUTSIDE OF YARD LIMITS. SEE NOTE 1

N 485900

E 1297350

MATCH LINE TRK 9 STA 23+00 – SEE DWG DR-L02

YARD TRK 1

YARD TRK 4

YARD TRK 6

YARD TRK 9

15" RCP

TRK 2 249+00

TRK 2 250+00

TRK 2 251+00

TRK 2 252+00

TRK 2 253+00

TRK 2 254+00

TRK 2 255+00

TRK 2 256+00

TRK 2 257+00

TRK 1 247+00

TRK 1 248+00

TRK 1 249+00

TRK 1 250+00

TRK 1 251+00

TRK 1 252+00

TRK 1 253+00

TRK 1 254+00

TRK 1 255+00

TRK 1 256+00

TRK 1 257+00

LOD

UNK SD

LYTTONSVILLE STATION PLATFORM

CAPITAL CRESCENT TRAIL

N 485900

E 1297350

KEYED NOTES

1. SEE TRACK SWM & DRAINAGE PLANS FOR SWM & DRAINAGE DESIGN DWGS.

40′ 0 40′ 80′

SCALE: 1"=40′

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DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

SWM & DRAINAGE PLAN – SHEET 3 OF 3

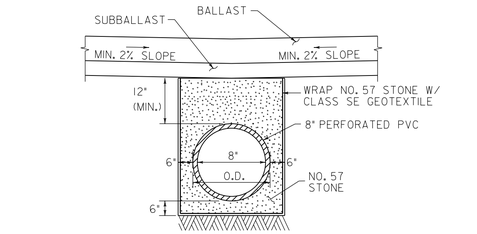
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220

DRAWING NO. DR–L03

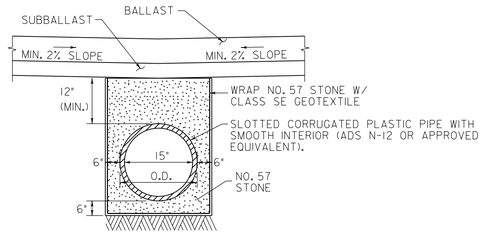
SHEET NO. 24 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pDRL095.dgn
12/2/2013



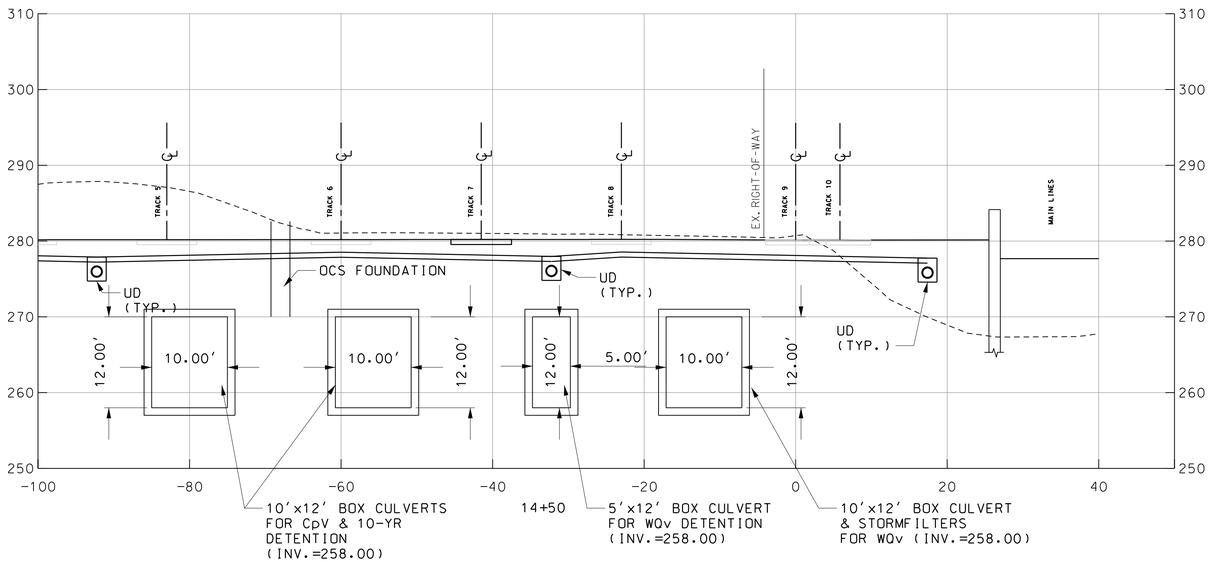
PERFORATED UNDERDRAIN (BELOW ROOFED AREA) DETAIL

SCALE: N.T.S.



PERFORATED UNDERDRAIN (OPEN AREA) DETAIL

SCALE: N.T.S.



UNDERGROUND SWM CROSS SECTION (YARD STA 14+50)

SCALE: 1"=10'

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DRAWN	AKC
CHECK	AUO
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DRAINAGE DETAILS

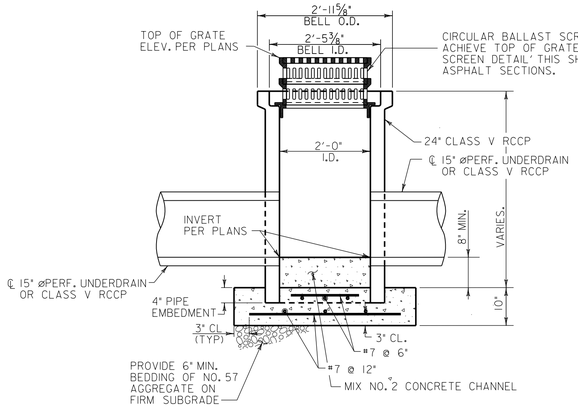
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220

DRAWING NO. DR-L04

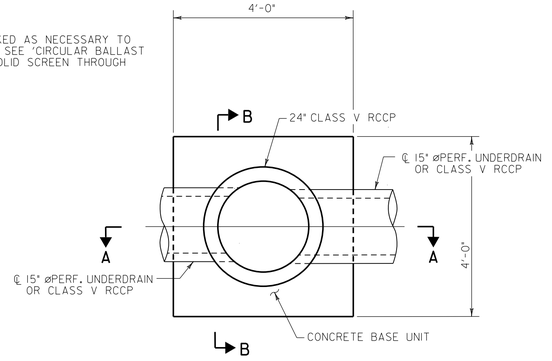
SHEET NO. 25 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pCSI102.dgn
11/18/2013



SECTION A–A

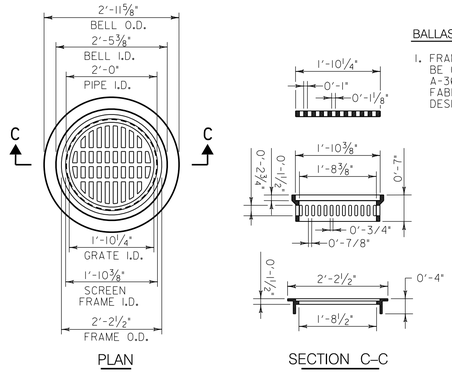
SCALE: ¾"=1'-0"



NOTE:
TOP FRAME, GRATE AND BALLAST SCREEN NOT SHOWN FOR CLARITY.

PLAN – UNDERDRAIN CLEANOUTS

SCALE: ¾"=1'-0"



CIRCULAR BALLAST SCREEN DETAIL

SCALE: ¾"=1'-0"

BALLAST SCREEN NOTES:

1. FRAME, BALLAST SCREEN AND GRATE SHALL BE CONSTRUCTED OF STEEL ASTM DESIGNATION A-36. SCREEN SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM DESIGNATION A123.

GENERAL NOTES:

SPECIFICATIONS: SHA SPECIFICATIONS DATED JANUARY 2001.

REVISIONS THEREOF AND ADDITIONS THERETO AND SPECIAL PROVISIONS FOR MATERIALS AND CONSTRUCTION.

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES DATED 1996 FOR DESIGN, INCLUDING ALL INTERIM SPECIFICATIONS THROUGH 2000.

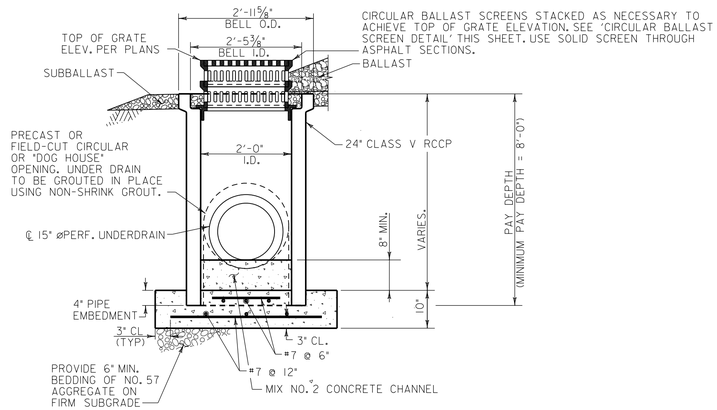
CONCRETE DESIGN: SERVICE LOAD DESIGN METHOD f_c = 1200 PSI.

REINFORCING STEEL DESIGN: f_s = 24,000 PSI.

CONCRETE: BASE UNIT STRUCTURE CONCRETE SHALL BE MIX NO.6 (4500 PSI).

REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO A615, GRADE 60. ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER BAR LAP CHARTS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED, WITH THE EXCEPTION OF BARS AT THE BOTTOM AND SIDES OF ALL FOOTINGS WHICH SHALL HAVE 3" MINIMUM COVER.

ONLY GRADE 60 CAN BE USED ON THIS PROJECT.



SECTION B–B

SCALE: ¾"=1'-0"

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DESIGN	BWJ
DRAWN	AKC
CHECK	AUO
APPR	

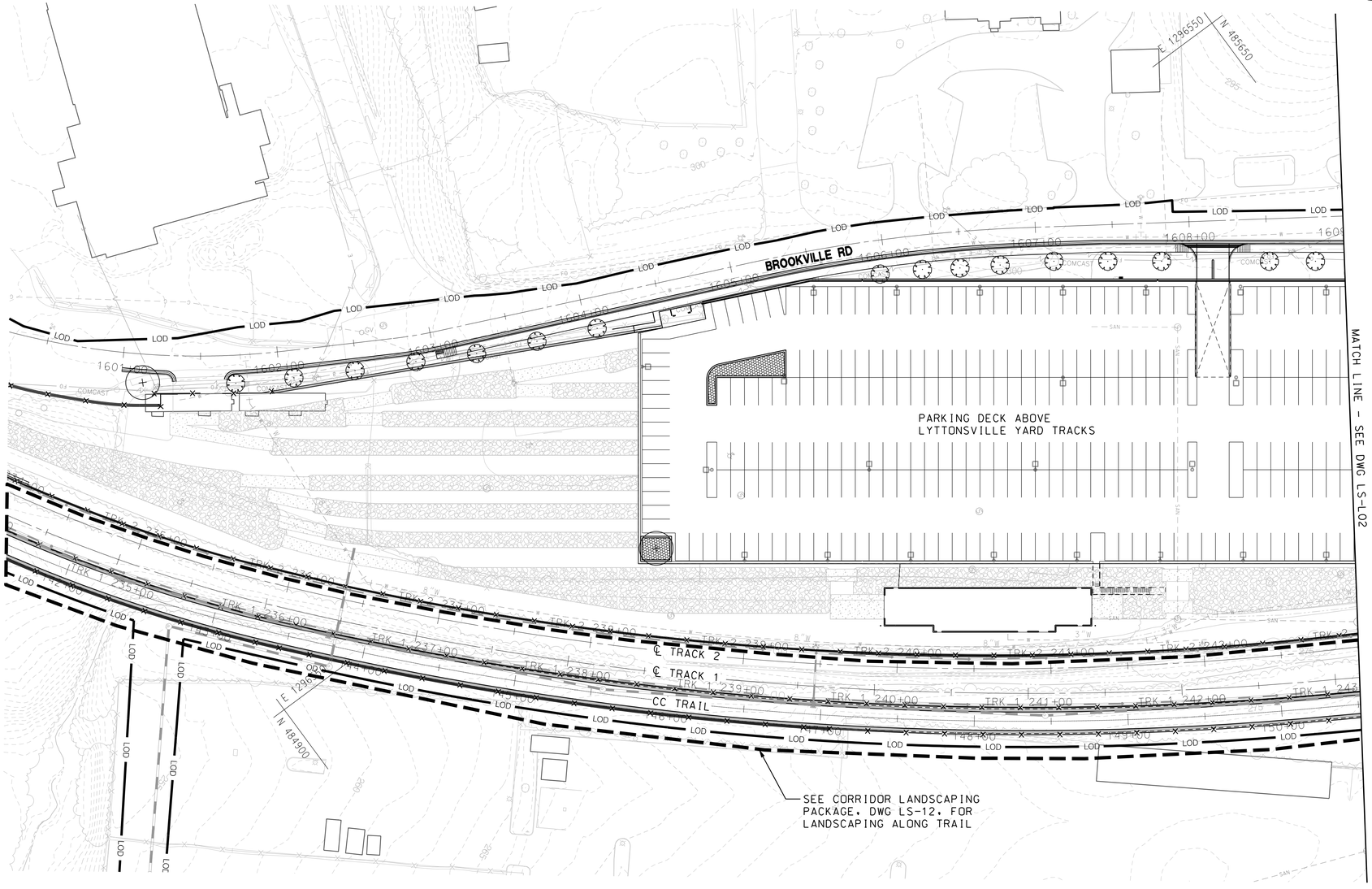
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DRAINAGE DETAILS

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. DR-L05
SHEET NO. 26 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Drainage\Sheet Files\1042pCSI103.dgn
11/18/2013



N

LEGEND

- EXISTING TREE TO BE PRESERVED WHERE POSSIBLE
- PROPOSED SHADE TREE
- PROPOSED UPRIGHT SHADE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED FLOWERING TREE
- PROPOSED SHRUBS
- PROPOSED PLANTER WITH MIXED PLANTINGS
- PROPOSED GROUNDCOVER/PERENNIALS/ ORNAMENTAL GRASSES
- PROPOSED GREEN ROOF PLANTINGS
- PROPOSED SPECIAL PAVING
- PROPOSED FENCE/GATE
- PROPOSED BIKE RACK
- PROPOSED TABLE & CHAIRS

NOTES:

1. RESEED ALL DISTURBED AREAS WITH TURF SEED UNLESS OTHERWISE NOTED.

2. SEE CORRIDOR LANDSCAPE PLAN SET FOR PLANTINGS BEYOND THE YARD FACILITY.

3. COORDINATE PLANTINGS WITH ALL SWM/ DRAINAGE FEATURES AND UTILITY/SYSTEM POLES AND BOXES REFERENCED ON DRAINAGE/SYSTEMS/CIVIL DRAWINGS.

40′ 0 40′ 80′
SCALE: 1"=40′

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DESIGN	CB/JTT
DRAWN	CO/JM
CHECK	TLK
APPR	

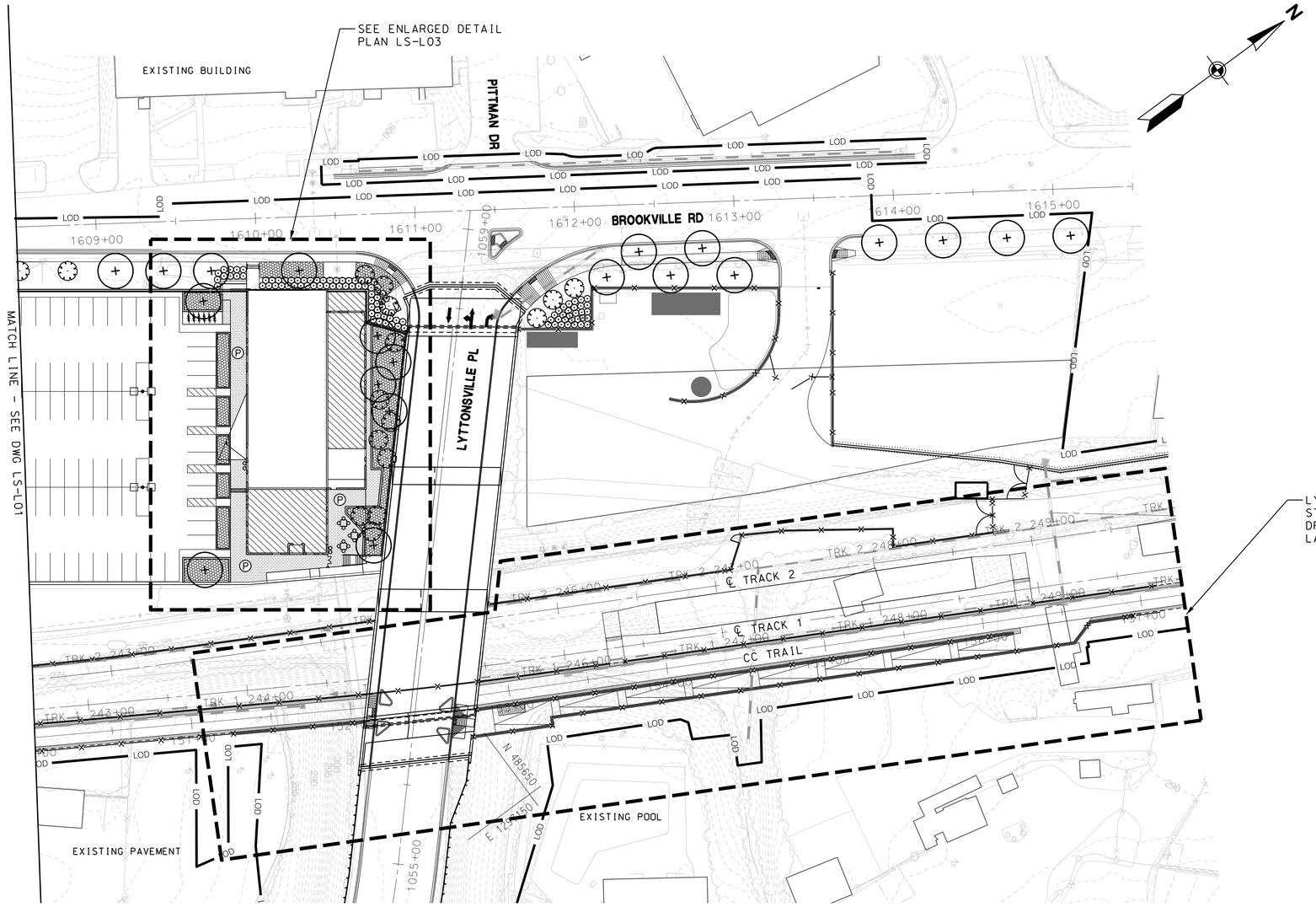
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
LANDSCAPE PLAN – SHEET 1 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. LS-L01
SHEET NO. 27 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Landscape Architecture\Sheet Files\1042plLSl001.dgn
11/18/2013



LEGEND

- EXISTING TREE TO BE PRESERVED WHERE POSSIBLE
- PROPOSED SHADE TREE
- PROPOSED UPRIGHT SHADE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED FLOWERING TREE
- PROPOSED SHRUBS
- PROPOSED GROUNDCOVER/PERENNIALS/ ORNAMENTAL GRASSES
- PROPOSED GREEN ROOF PLANTINGS
- PROPOSED SPECIALTY PAVING
- PROPOSED FENCE/GATE
- PROPOSED BIKE RACK
- PROPOSED TABLE & CHAIRS
- PROPOSED TRASH/RECYCLING RECEPTACLE

NOTES:
1. RESEED ALL DISTURBED AREAS WITH TURF SEED UNLESS OTHERWISE NOTED.

2. SEE CORRIDOR LANDSCAPE PLAN SET FOR PLANTINGS BEYOND THE YARD FACILITY.

3. COORDINATE PLANTINGS WITH ALL SWM/ DRAINAGE FEATURES AND UTILITY/SYSTEM POLES AND BOXES REFERENCED ON DRAINAGE/SYSTEMS/CIVIL DRAWINGS.

40′ 0 40′ 80′
SCALE: 1"=40′

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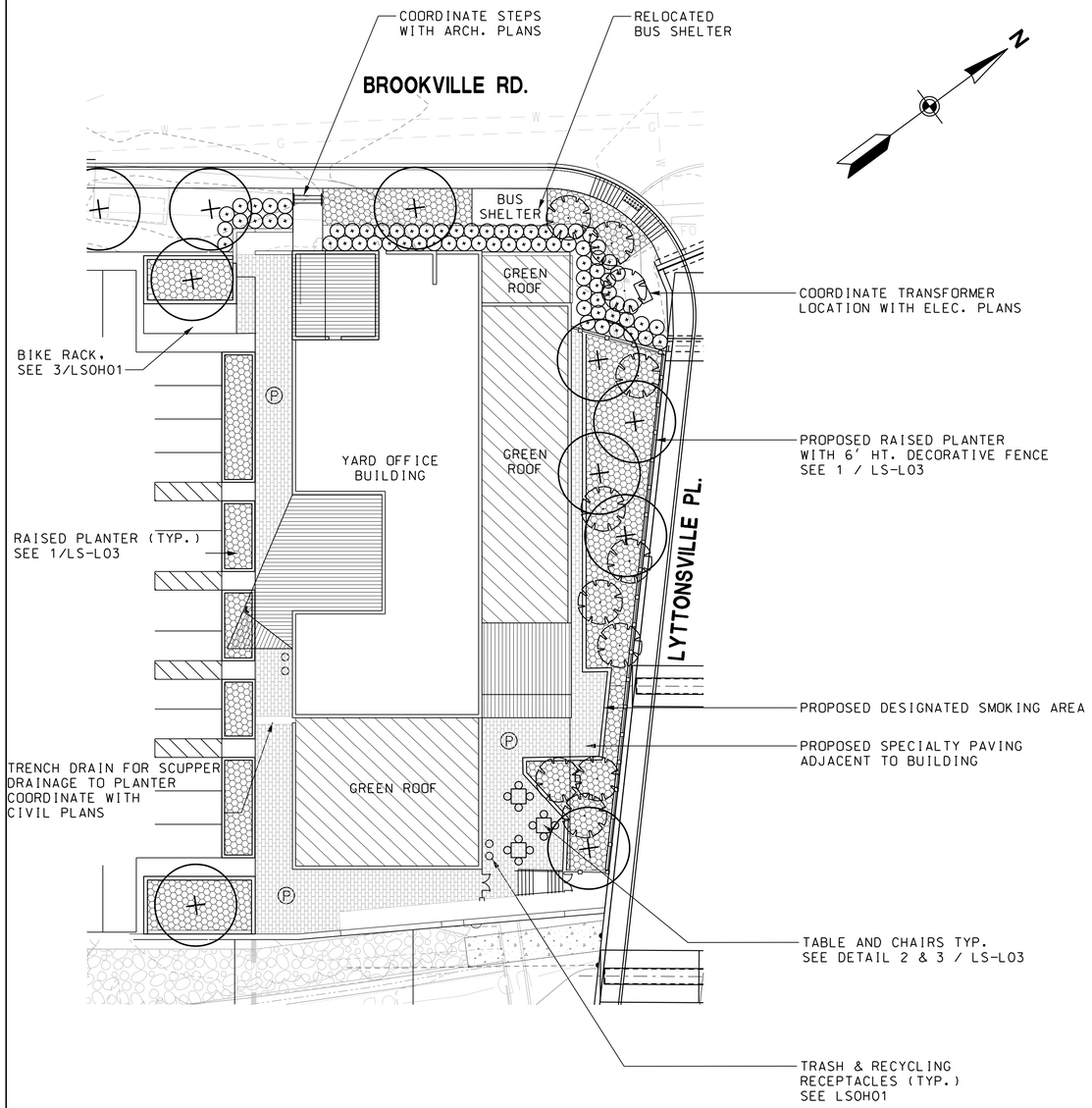
DESIGN	CB/JTT
DRAWN	CO/JM
CHECK	TLK
APPR	

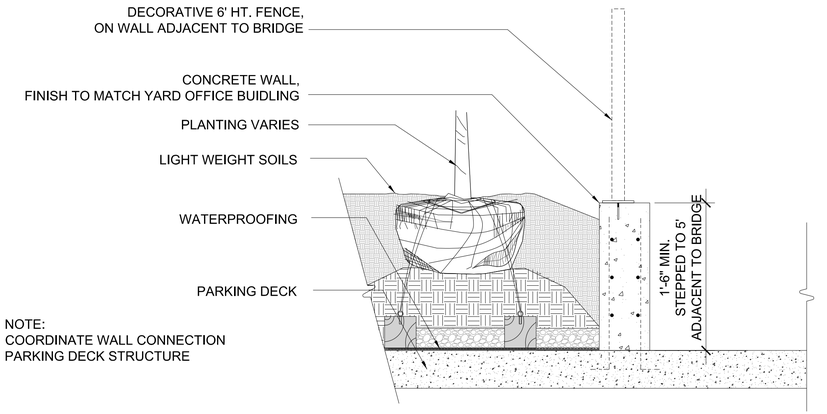
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
LANDSCAPE PLAN – SHEET 2 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. LS-L02
SHEET NO. 28 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Landscape Architecture\Sheet Files\1042pLSl002.dgn
11/18/2013





NOTE:
COORDINATE WALL CONNECTION
PARKING DECK STRUCTURE

1 LS-L03 PLANTER WALL DETAIL

SCALE: 1/2"=1'-0"
REF: SHT-REF

STACKABLE POWDERCOAT SILVER FINISH
PERFORATED BACK CHAIR WITH ARM RESTS B.O.D.
CHAIR MODEL: SCVIS-AP (VISTA CHAIR) BY FORMS + SURFACES, (OR EQUAL)

INSTALL PER MANUFACTURER RECOMMENDATIONS

2 LS-L03 STACKABLE CHAIR DETAIL

SCALE: 1"=1'-0"
REF: SHT-REF

POWDERCOAT SILVER FINISH PERFORATED TOP
ROUND TOP TABLE (36" TOP, 30" BASE) B.O.D.
TABLE MODEL: SPCOL-T30R36 (COLUMN TABLE)
BY FORMS + SURFACES, (OR EQUAL)

INSTALL PER MANUFACTURER
RECOMMENDATIONS

2 LS-L03 PERFORATED TOP TABLE DETAIL

SCALE: 1"=1'-0"
REF: SHT-REF

20' 0 20' 40'
SCALE: 1"=20'

LEGEND

- EXISTING TREE TO BE PRESERVED WHERE POSSIBLE
- PROPOSED SHADE TREE
- PROPOSED UPRIGHT SHADE TREE
- PROPOSED EVERGREEN TREE
- PROPOSED FLOWERING TREE
- PROPOSED SHRUBS
- PROPOSED GROUNDCOVER/PERENNIALS/ ORNAMENTAL GRASSES
- GREEN ROOF PLANTINGS
- PROPOSED SPECIALTY PAVING
- PROPOSED FENCE/GATE
- PROPOSED BIKE RACK
- PROPOSED TABLE & CHAIRS
- PROPOSED TRASH & RECYCLING RECEPTACLES

NOTES:
1. RESEED ALL DISTURBED AREAS WITH TURF SEED UNLESS OTHERWISE NOTED.

2. SEE CORRIDOR LANDSCAPE PLAN SET FOR PLANTINGS BEYOND THE YARD FACILITY.

3. COORDINATE PLANTINGS WITH ALL SWM/DRAINAGE FEATURES AND UTILITY/SYSTEM POLES AND BOXES REFERENCED ON DRAINAGE/SYSTEMS/CIVIL DRAWINGS.

4. SEE LSOH01 FOR SPECIAL PAVING, TRASH/ RECYCLING RECEPTACLES, AND BIKE RACK DETAILS.

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DRAWN	CO/JM
CHECK	TLK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
LANDSCAPE PLAN – SHEET 3 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. LS-L03
SHEET NO. 29 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Landscape Architecture\Sheet Files\1042pLSl003.dgn
12/4/2013

CURVE	RADIUS (FT)	CURVE PI COORDINATES	
		NORTH	EAST
CN 1 002.1	300	484864.9326	1296272.1179
CN 5 001.1	300	485000.2867	1296412.3423
CN 6 001.1	300	484993.7972	1296436.1495
CN 9 001.1	500	484698.2076	1295351.7784
CN 9 006.1	1275	484670.6311	1295780.0488
CN 9 010.1	500	484807.1463	1296209.9850
CN 9 013.1	400	484970.3174	1296472.2732

PS #8 STA TRK 2 222+70.21
= PS #8 STA Y9 0+00
PITO #8 STA TRK 2 223+01.21
= PITO #8 STA Y9 0+31.00

CN 9 001.1

PROPOSED DETAIL
STA Y9 2+05

BROOKVILLE RD

YARD LEAD TRACK
(YARD TRACK Y9)

℄ TRACK 2

CN 9 006.1

℄ TRACK 1

CAPITAL
CRESCENT
TRAIL

TERRACE DR

MAINTENANCE
ROAD (TYP)

CN 1 002.1

CN 5 001.1

CN 6 001.1

CN 9 013.1

CN 9 010.1

WEST YARD
ENTRANCE

MATCH LINE STA. Y9 13+00 – SEE DWG TW-L02

40′ 0 40′ 80′
SCALE: 1"=40′

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DESIGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ALIGNMENT PLAN – SHEET 1 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L01
SHEET NO. 30 OF 443

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11/13/2013

CURVE	RADIUS (FT)	CURVE PI COORDINATES	
		NORTH	EAST
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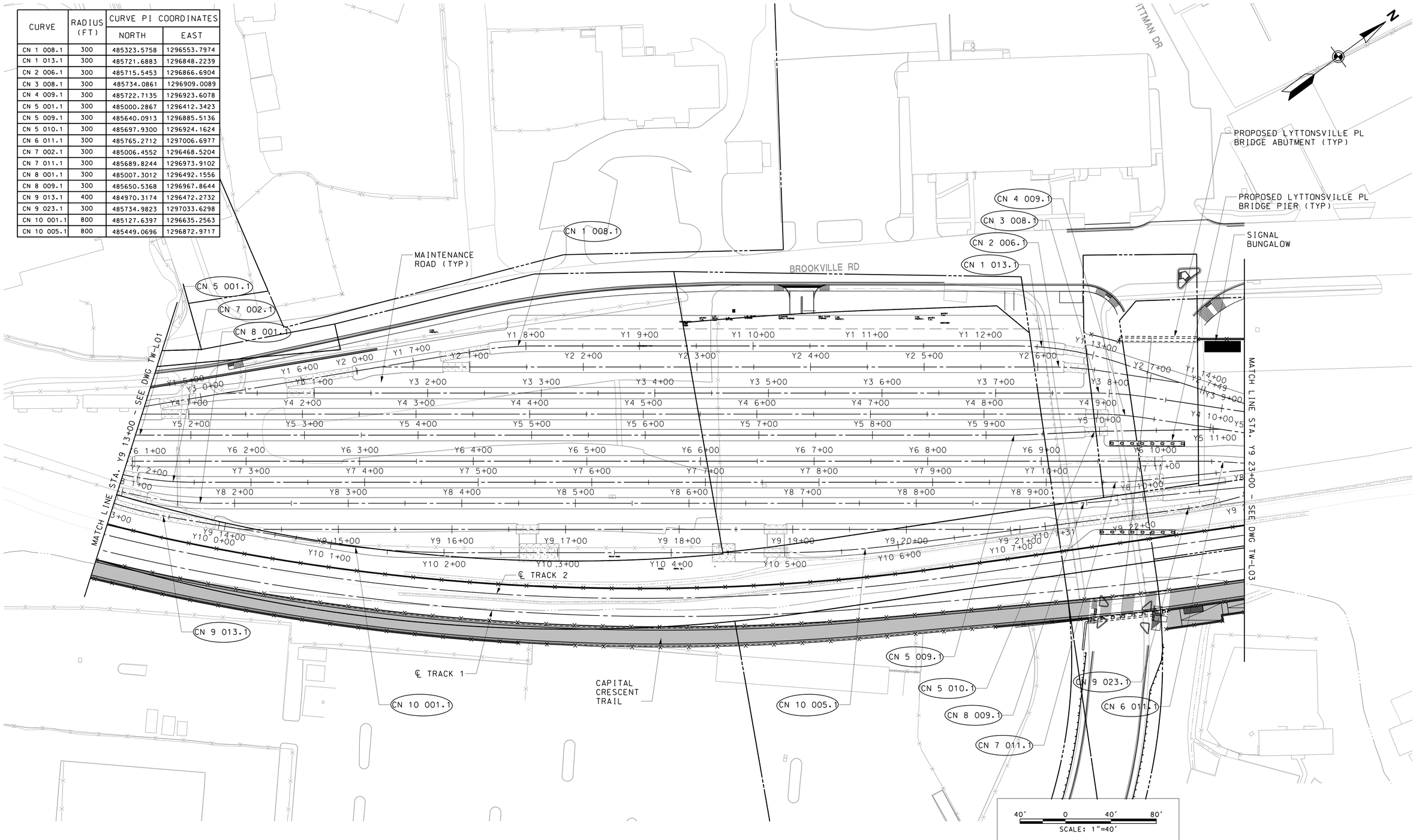
CN 1 013.1	300	485721.6883	1296848.2239
CN 2 006.1	300	485715.5453	1296866.6904
CN 3 008.1	300	485734.0861	1296909.0089
CN 4 009.1	300	485722.7135	1296923.6078
CN 5 001.1	300	485000.2867	1296412.3423
CN 5 009.1	300	485640.0913	1296885.5136
CN 5 010.1	300	485697.9300	1296924.1624
CN 6 011.1	300	485765.2712	1297006.6977
CN 7 002.1	300	485006.4552	1296468.5204
CN 7 011.1	300	485689.8244	1296973.9102
CN 8 001.1	300	485007.3012	1296492.1556
CN 8 009.1	300	485650.5368	1296967.8644
CN 9 013.1	400	484970.3174	1296472.2732
CN 9 023.1	300	485734.9823	1297033.6298
CN 10 001.1	800	485127.6397	1296635.2563
CN 10 005.1	800	485449.0696	1296872.9717



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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ALIGNMENT PLAN – SHEET 2 OF 3

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L02
SHEET NO. 31 OF 443

c:\pwworking\mtapw\wra-nicolas.kern\dms96413\1042pTW102.dgn
11/13/2013

TRACTION POWER SUBSTATION

STORAGE AREA

COMPACTOR

EAST YARD ENTRANCE

BROOKVILLE RD

MAINTENANCE ROAD (TYP)

END TAIL TRACK

℄ TRACK 2

℄ TRACK 1

SIGNAL BUNGALOW

SAND SILO

MATCH LINE STA. Y9 23+00 - SEE DWG TW-L02

PS #10 STA TRK 2 252+28.28
= PS # 10 STA Y9 29+08.94

PITO STA TRK 2 251+98.86
= PITO #10 STA Y9 28+78.52

P.I. STA TRK 2 250+08.10
(9°31'38" DEGREE CROSSING DIAMOND)
= P.I. STA YC 1+17.92

CN C 001.1

PS #10 STA TRK 1 252+59.25
LYTTONSVILLE YARD LEAD
= PS #10 STA YC 3+71.13

PITO STA TRK 1 252+27.83
= PITO #10 STA YC 3+39.71

LYTTONSVILLE STATION PLATFORM

STEWART AVE

CURVE	RADIUS (FT)	CURVE PI COORDINATES	
		NORTH	EAST
CN C 001.1	300	486180.9987	1297329.7003

40′ 0 40′ 80′
SCALE: 1"=40′

MARYLAND DEPARTMENT OF TRANSPORTATION
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MTA Maryland

Gannett Fleming
WR&A

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DESIGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ALIGNMENT PLAN – SHEET 3 OF 3
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L03
SHEET NO. 32 OF 443

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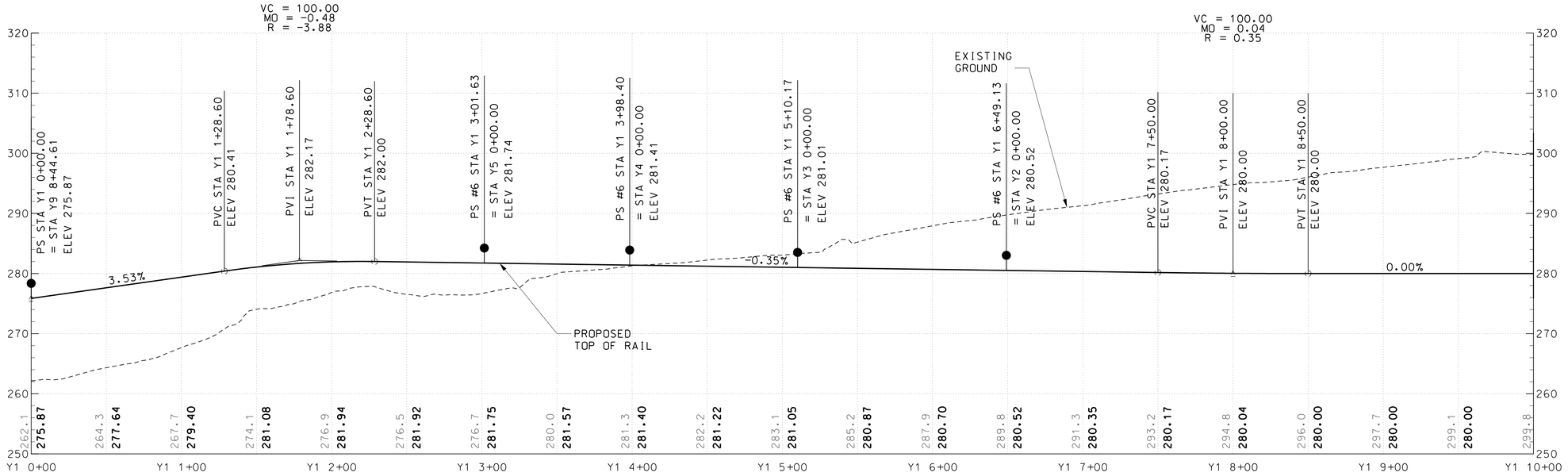
11/13/2013



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HORIZONTAL SCALE: 1″=40′

10′ 0 10′ 20′
VERTICAL SCALE: 1″=10′

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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y1 0+00 TO STA Y1 10+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L04
SHEET NO. 33 OF 443

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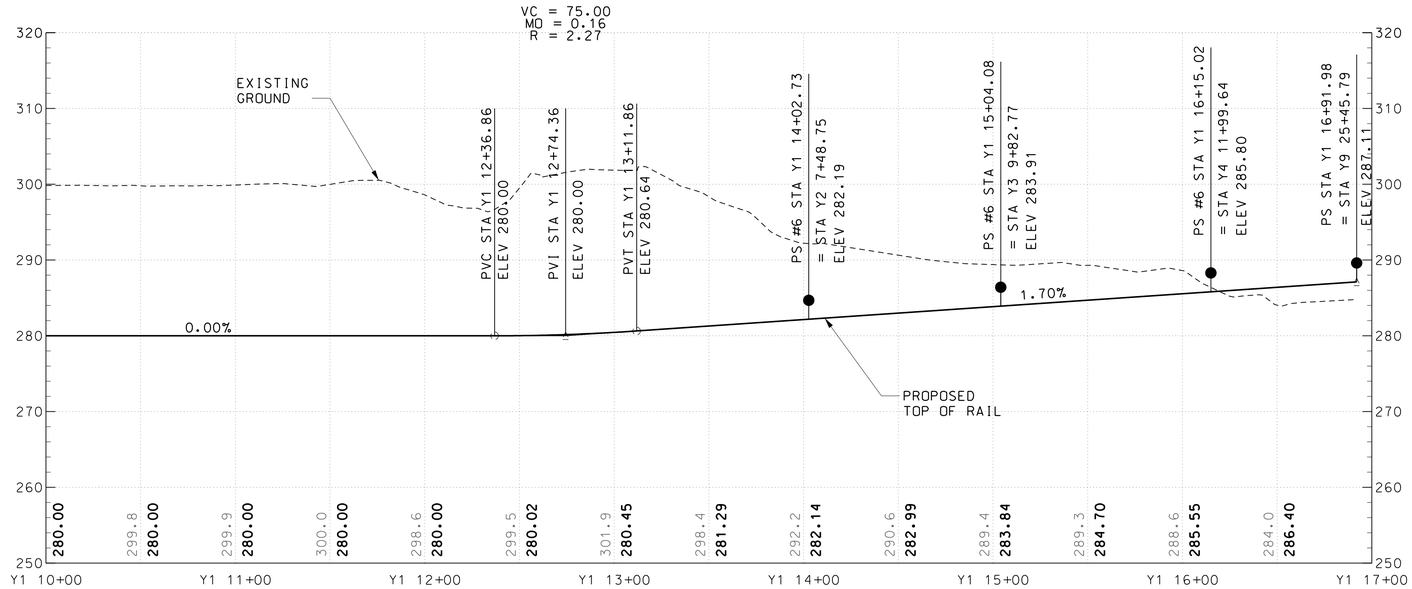
11/13/2013



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HORIZONTAL SCALE: 1″=40′

10′ 0 10′ 20′
VERTICAL SCALE: 1″=10′

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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y1 10+00 TO STA Y1 16+91.98

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L05
SHEET NO. 34 OF 443

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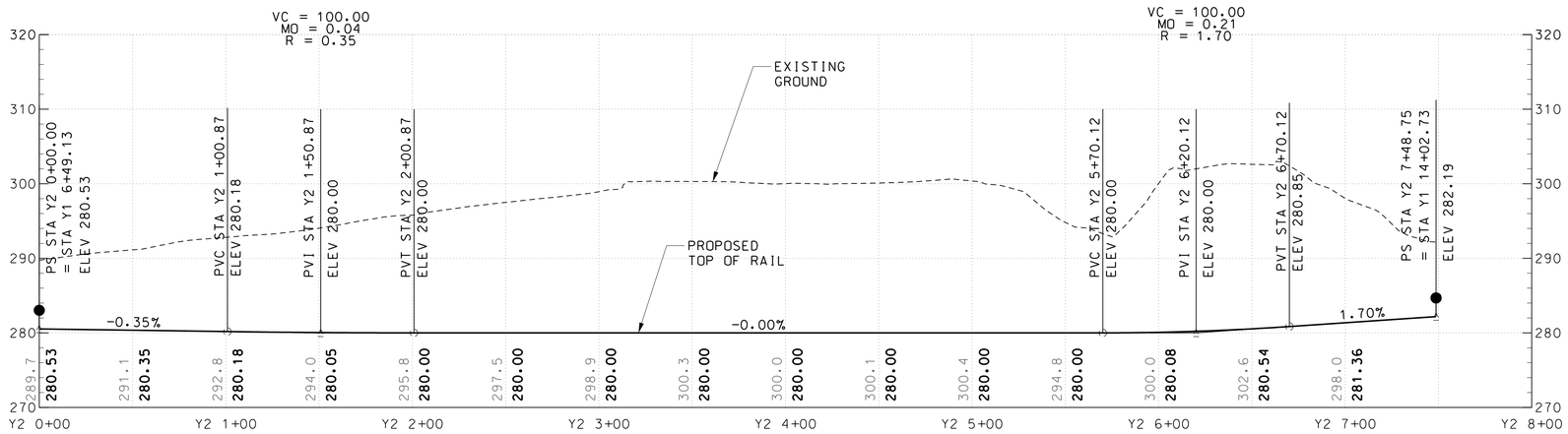
11/13/2013



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VERTICAL SCALE: 1″=10′

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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y2 0+00 TO STA Y2 7+48.75

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L06
SHEET NO. 35 OF 443

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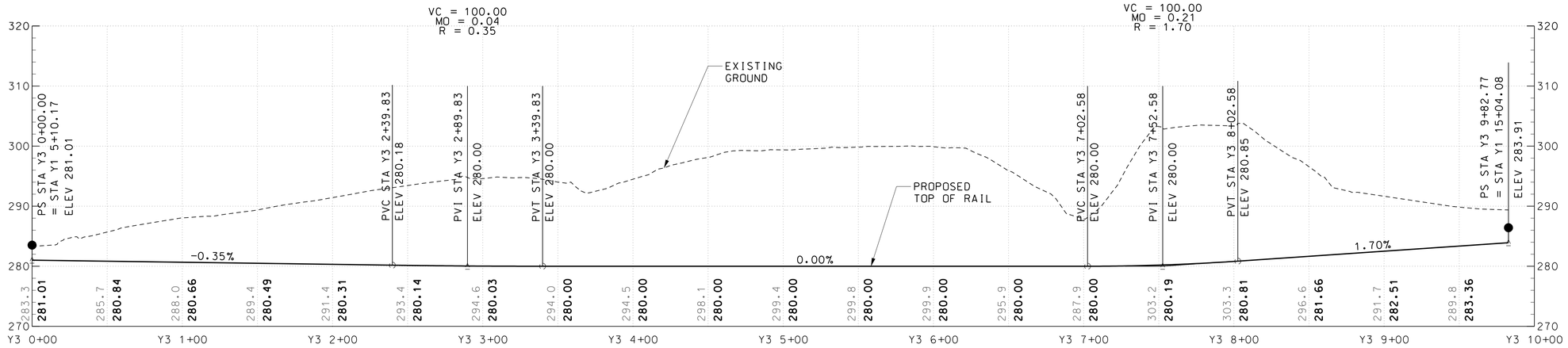
11/13/2013



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HORIZONTAL SCALE: 1″=40′

10′ 0 10′ 20′
VERTICAL SCALE: 1″=10′

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DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y3 0+00 TO STA Y3 9+82.77

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L07
SHEET NO. 36 OF 443

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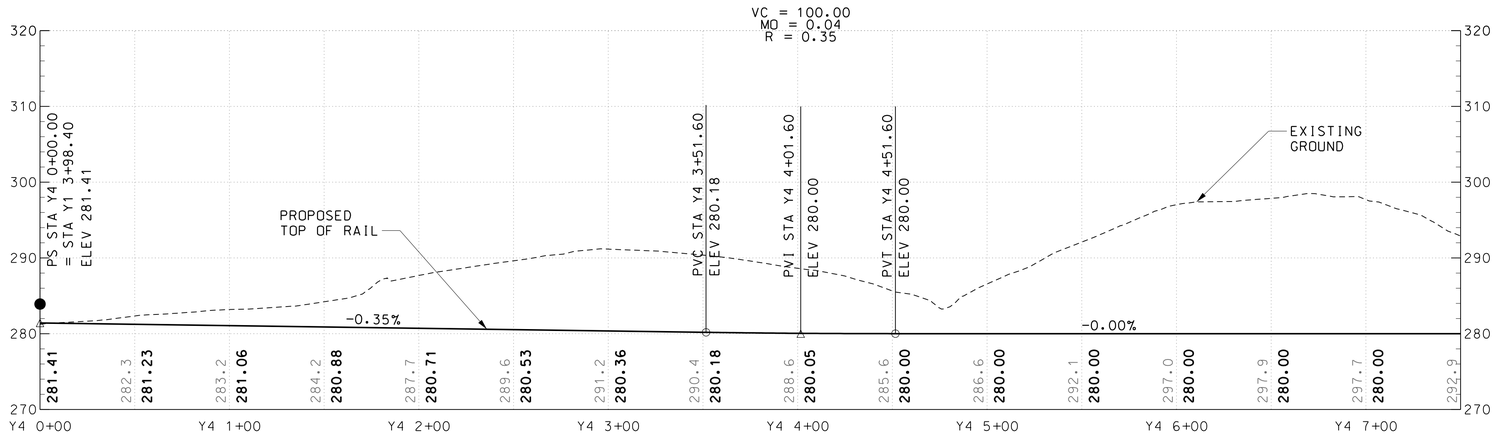
11/13/2013



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HORIZONTAL SCALE: 1″=40′

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VERTICAL SCALE: 1″=10′

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DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y4 0+00 TO STA Y4 7+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L08
SHEET NO. 37 OF 443

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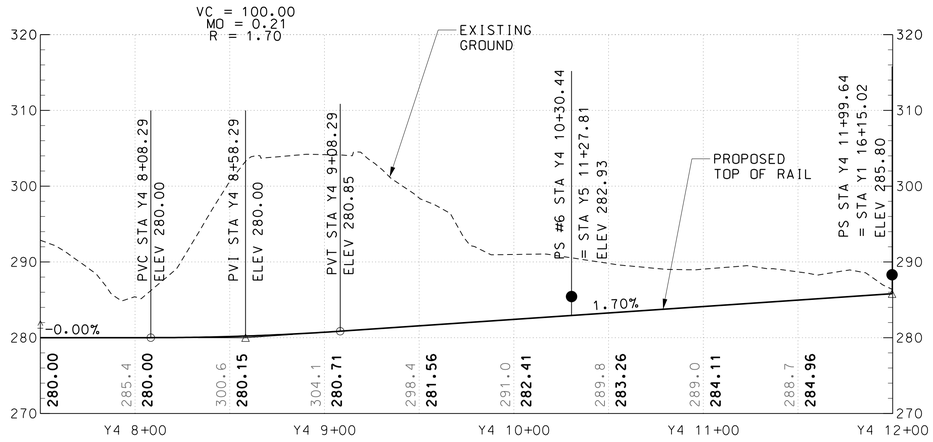
11/13/2013



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HORIZONTAL SCALE: 1"=40′

10′ 0 10′ 20′
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DESIGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y4 7+50 TO STA Y4 11+99.64

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L09
SHEET NO. 38 OF 443

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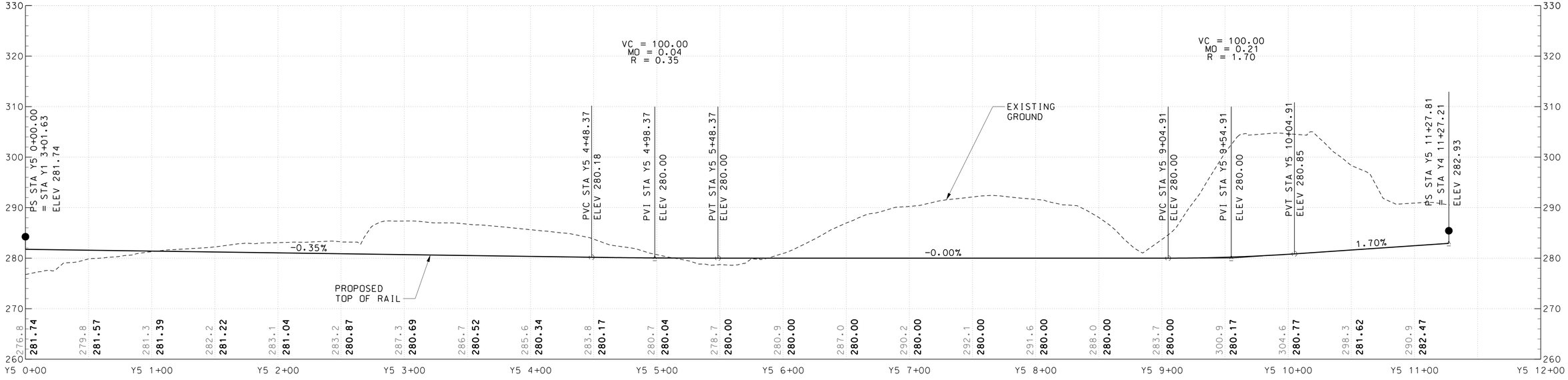
11/13/2013



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DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y5 0+00 TO STA Y5 11+27.81

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L10
SHEET NO. 39 OF 443

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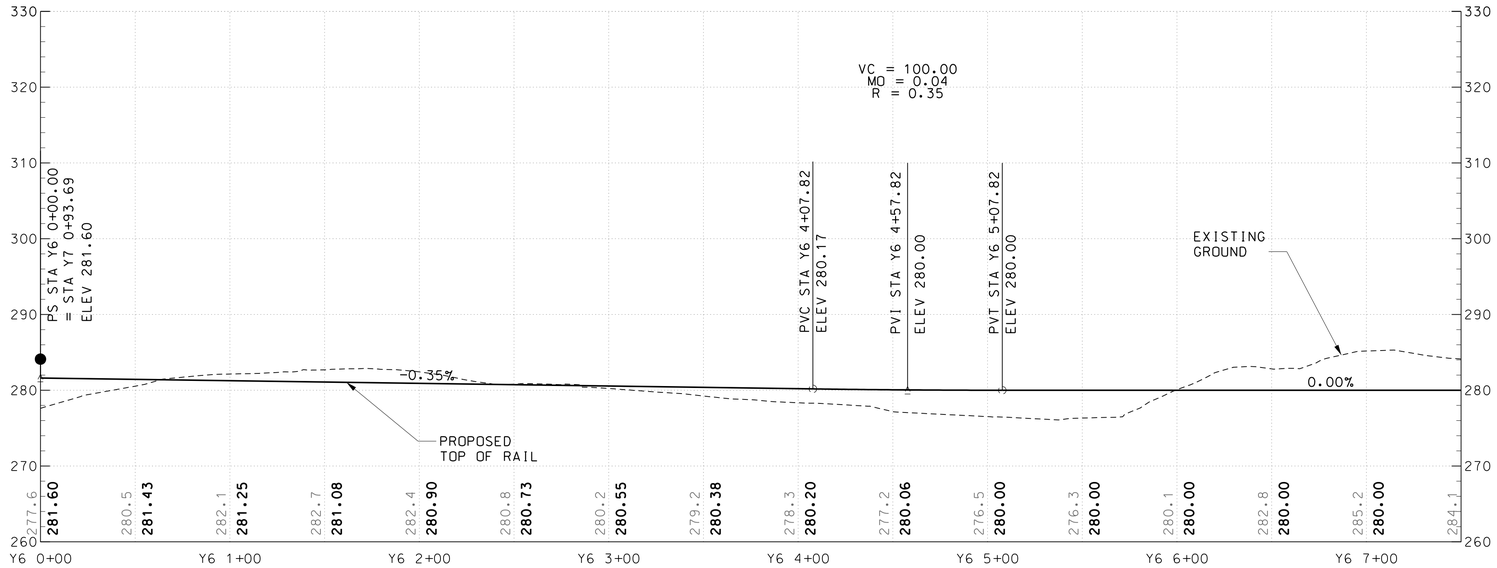
11/13/2013



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DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y6 0+00 TO STA Y6 7+50

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L11
SHEET NO. 40 OF 443

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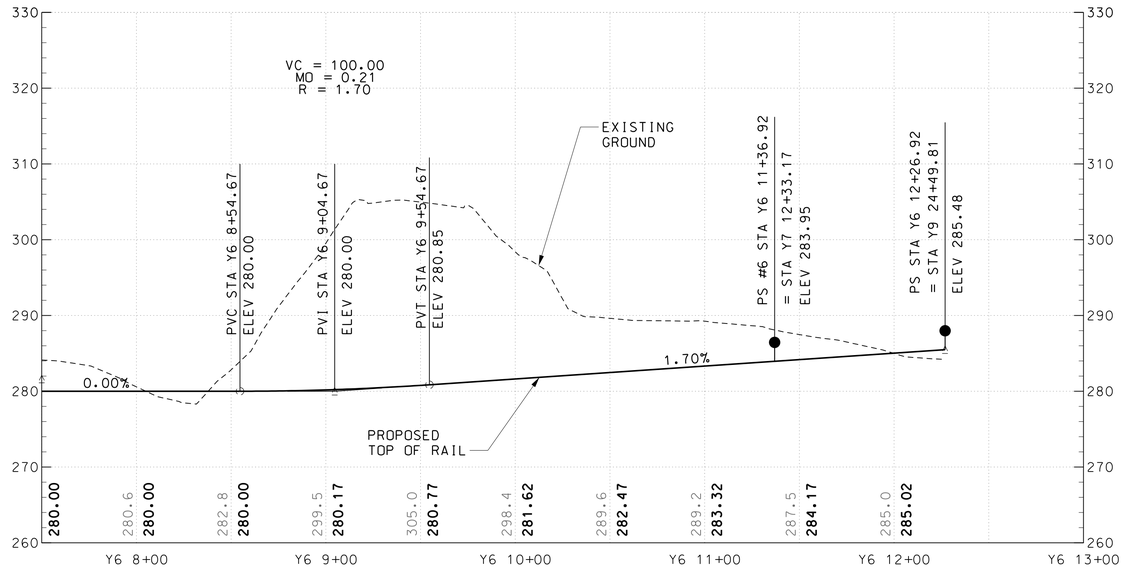

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10′ 0 10′ 20′
VERTICAL SCALE: 1"=10′

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DESIGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y6 7+50 TO STA Y6 12+26.92
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L12
SHEET NO. 41 OF 443

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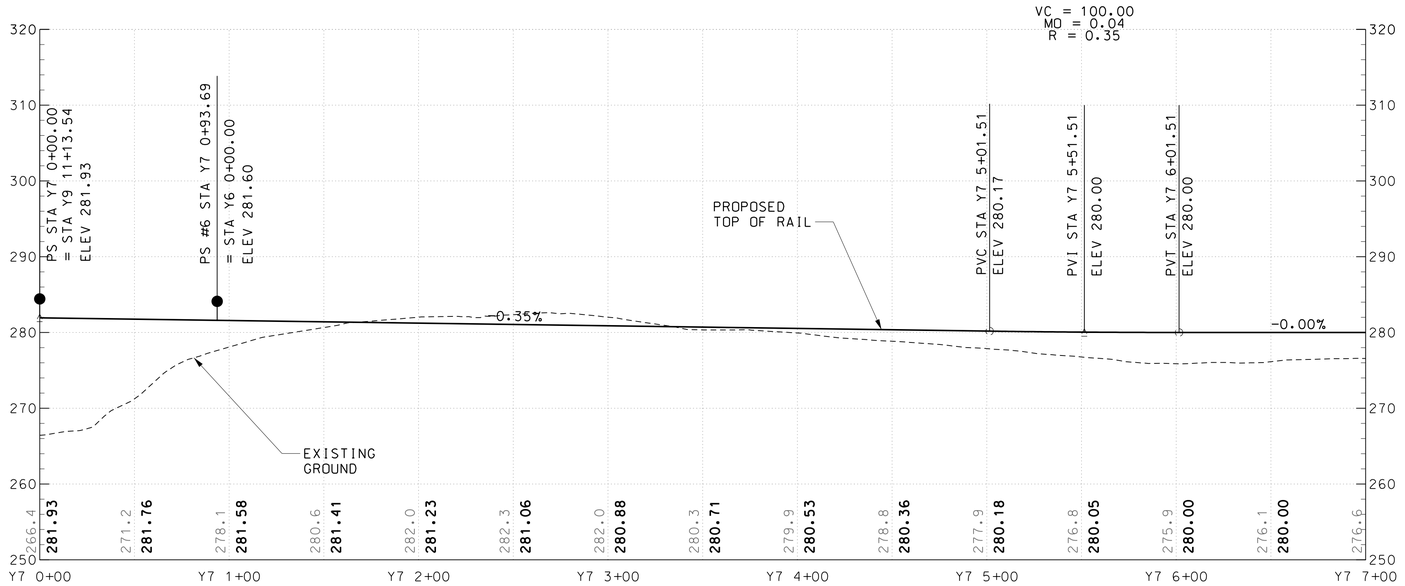

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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y7 0+00 TO STA Y7 7+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L13
SHEET NO. 42 OF 443

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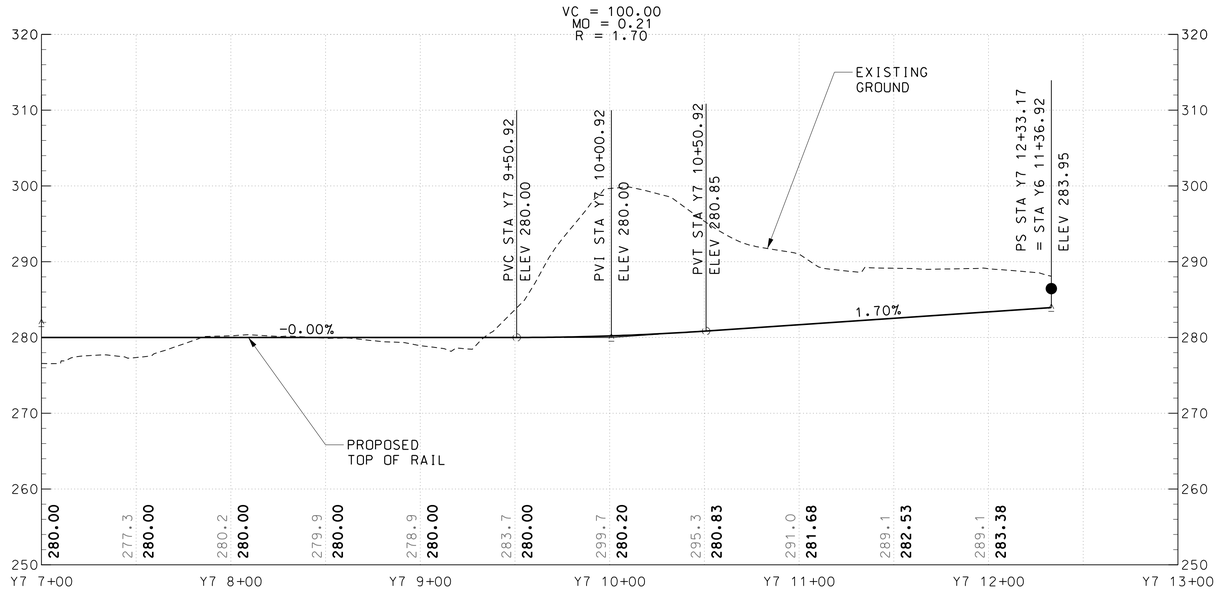

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CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y7 7+00 TO STA Y7 12+33.17

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L14
SHEET NO. 43 OF 443

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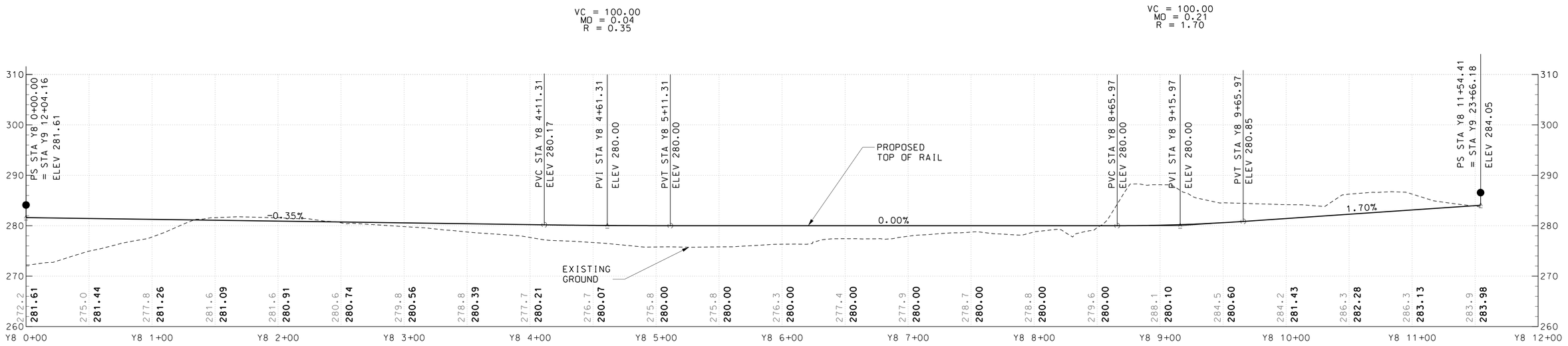

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CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y8 0+00 TO STA Y8 11+54.41

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L15
SHEET NO. 44 OF 443

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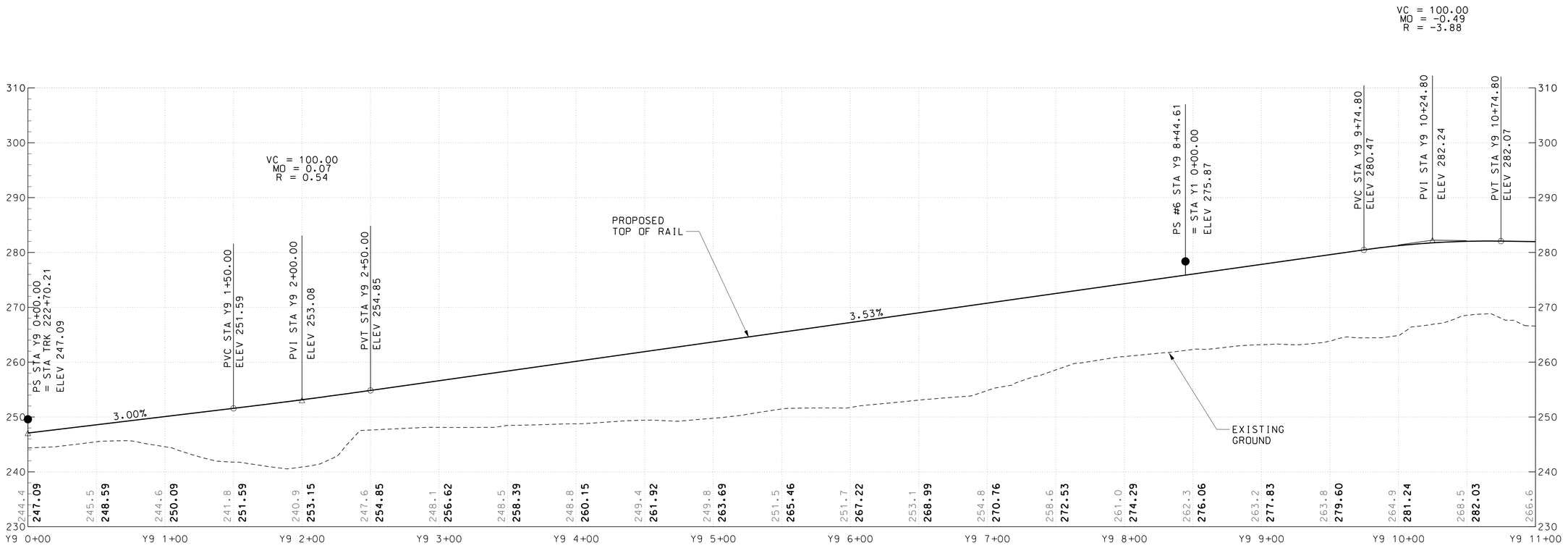

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DESGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y9 0+00 TO STA Y9 11+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L16
SHEET NO. 45 OF 443

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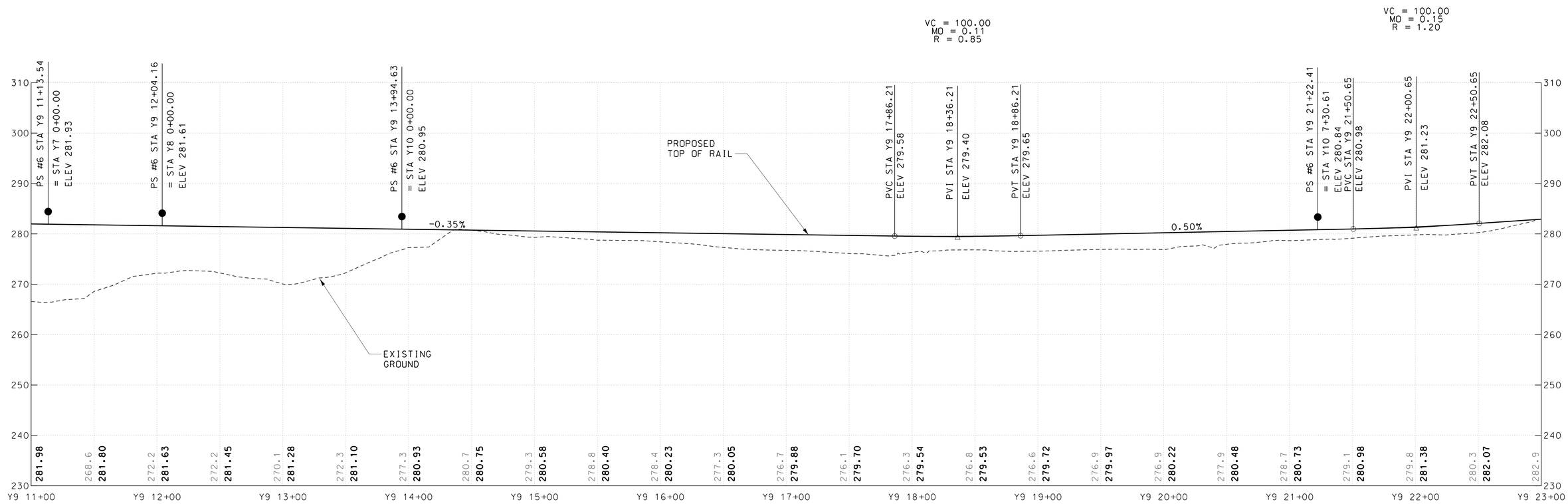

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DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y9 11+00 TO STA Y9 23+00

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L17
SHEET NO. 46 OF 443

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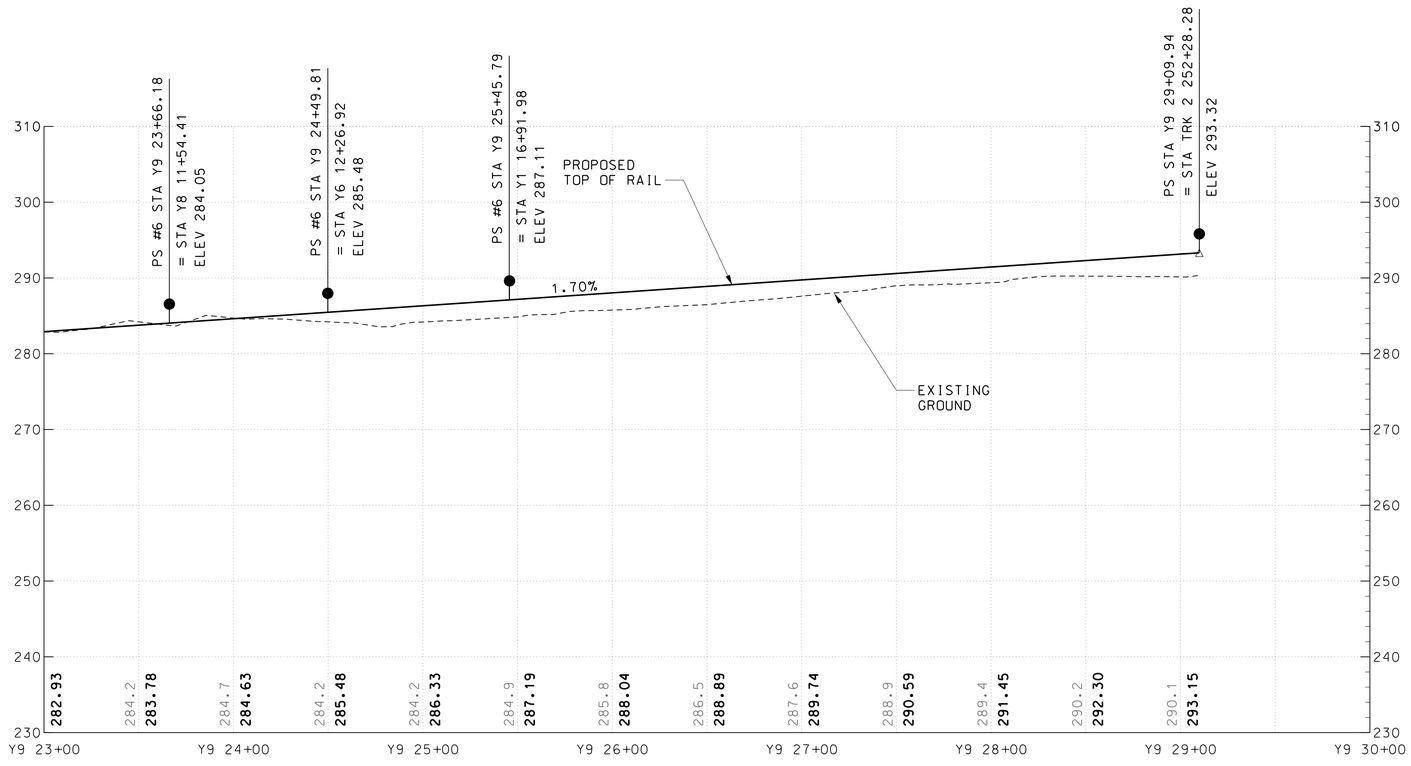

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CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y9 23+00 TO STA Y9 29+09.94
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L18
SHEET NO. 47 OF 443

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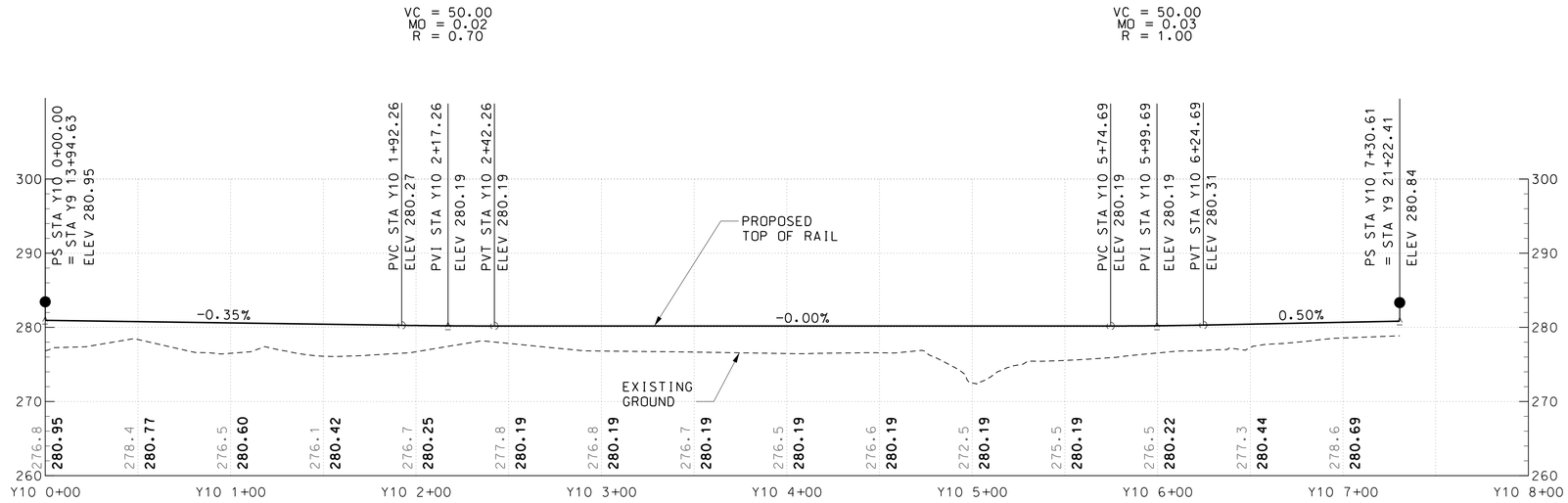

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APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PROFILE STA Y10 0+00 TO STA Y10 7+30.61

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T–1042–0220
DRAWING NO. TW–L19
SHEET NO. 48 OF 443

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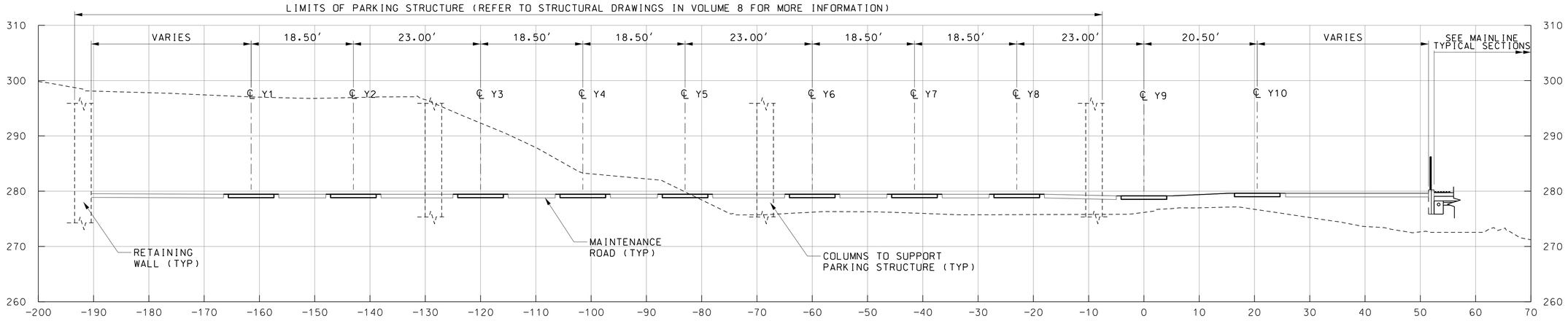
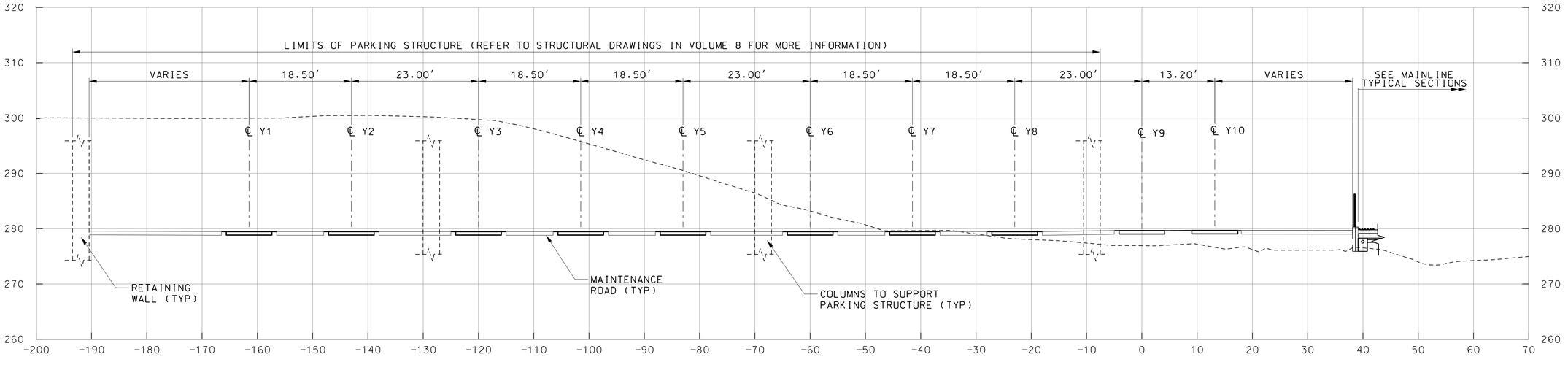
11/13/2013



STA Y9 17+50



STA Y9 20+00

10' 0 10' 20'
SCALE: 1"=10'

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. Expiration Date

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

DESIGN	NRK
DRAWN	NRK
CHECK	REJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
TYPICAL SECTIONS

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. TW-L20
SHEET NO. 49 OF 443

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11/13/2013

ARCHITECTURAL ABBREVIATIONS

ABV	ABOVE
AC	AIR CONDITIONING (CONDITIONER)
AD	ACCESS DOOR (OR PANEL)
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDENDUM
ADJ	ADJACENT
AES	ABOVE EXISTING SLAB
AF	ACCESS FLOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APC	ACOUSTICAL PANEL CEILING (LAY-IN)
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AWP	ACOUSTICAL WALL PANEL
ASP	ASPHALT
BC	BOTTOM OF CURB
BD	BOARD
BETW	BETWEEN
BLDG	BUILDING
BM	BEAM
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BR/S	BACKER ROD AND SEALANT
BR	BRICK
BLKG	BLOCKING
C	CONDUIT
C/C	CENTER TO CENTER
CAB	CABINET
CARP	CARPET
CEM	CEMENT
CIRC	CIRCULATION
CARPT	CARPET TILE
CER	CERAMIC
CG	CORNER GUARD
CH	CEILING HEIGHT
CJ	CONTROL JOINT
CLOS	CLOSET
CLG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CL	CENTERLINE
CO	CLEAR OPENING
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONT	CONTINUOUS
CR	COLD ROLLED
CSK	COUNTERSUNK
CONSTR	CONSTRUCTION
CS	CONCRETE SEALER
CT	CERAMIC TILE
CTR	COUNTER
CW	CURTAIN WALL
CX	CONNECT TO EXISTING
D	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIR	DIRECTORY
DIST	DISTRICT
DN	DOWN
DO	DOOR OPENING
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATOR
EM	ENTRY MAT
EMER	EMERGENCY
EL	ELEVATION
EP	ETHYLENE PROPYLENE-BASED (SINGLE PLY ROOFING)
EPB	ELECTRIC PANEL BOX
EPDM	ETHYLENE-PROPYLENE-DIENE MEMBRANE
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EPX	EPOXY
EQUIP	EQUIPMENT
EST	ESTIMATE
EUH	ELECTRIC UNIT HEATER
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWCA	ELECTRIC WATER COOLER - ACCESSIBLE
EXIST	EXISTING
EXP	EXPANSION OR EXPOSED
EXT	EXTERIOR

F	FILLER
FD	FLOOR DRAIN OR FIRE DAMPER
FDR	FOLDING DOOR (WOOD OR FABRIC)
FEC	FIRE EXTINGUISHER CABINET
FE	FIRE EXTINGUISHER
FH	FLAT HEAD
FIN	FINISH OR FINISHED
FC	FAN COIL UNIT
FE	FIRE EXTINGUISHER ON BRACKET
FIRE T	FIRE TREATED
FIX	FIXTURE
FL	FLASHING
FLR	FLOOR
FP	FIRE PROOFED
FR	FIRE RATED
FRC	FIBER-REINFORCED COATING
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FOLDING SHELF
FSS	FOLDING SHOWER SEAT
FT	FOOT OR FEET
FWP	FABRIC-WRAPPED PANEL (FABRICATED)
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GLM	GLASS UNIT MASONRY (GLASS BLOCK)
GMU	GLAZED MASONRY UNIT
GRD	GROUND
GL	GLASS
GP	GYPSUM PLASTER
GVP	GYPSUM VENEER PLASTER
GYPB	GYPSUM BOARD (WALL OR CEILING)
GYPBS	GYPSUM BOARD SHAFT-WALL ASSEMBLY
GRT	GROUT
H	HEAD
HB	HORIZONTAL BLIND
HDW	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HT	HEIGHT
HW	HOT WATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HTR	HEATER
HOR	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
IN	INCH
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IT	INFORMATION TECHNOLOGY
J	JAMB
JC	JANITOR'S CLOSET
JT	JOINT
KIT	KITCHEN
L	LINTEL
LAB	LABORATORY
LAV	LAVATORY
LG	LONG
LIN	LINOLEUM FLOOR COVERING
LLV	LONG LEG VERTICAL
LOCK	LOCKER
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LTG	LIGHTING
LV	LOUVER
M	MIRROR OR MEN
MAS	MASONRY
MATL	MATERIAL
MACH	MACHINE
MAX	MAXIMUM
MET	METAL
MDF	MEDIUM DENSITY FIBERBOARD
MFB	MINERAL FIBER BLANKET
MECH	MECHANICAL
MFR	MANUFACTURER
MET	METAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
MO	MASONRY OPENING
MP	METAL PANEL
MR	MOP RACK
MTL	METAL
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE
ND	SANITARY NAPKIN DISPENSER
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
NO	NUMBER
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFF	OFFICE
OHD	OVERHEAD COILING DOOR
OP	OPERABLE PANEL PARTITION (HUNG)
OHG	OVERHEAD COILING GRILLE
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE

PAV	PAVER TILE (FROM OVERHEAD TRACK)
PC	PRECAST CONCRETE
PF	PLASTIC FABRICATION
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
POC	POLISHED CONCRETE
PREFAB	PREFABRICATED
PRES T	PRESSURE TREATED
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RISER OR RADIUS
RB	RUBBER BASE
RD	ROOF DRAIN OR ROUND
REQ'D	REQUIRED
RCP	REFLECTED CEILING PLAN
RF	RESILIENT FLOORING (VINYL, RUBBER)
REBAR	REINFORCING BAR
REINF	REINFORCED OR REINFORCING
RESF	RESINOUS FLOORING
REQ	REQUIRED
RET	RETURN
REV	REVISION
RH	ROBE HOOK
RM	ROOM
RMNO	ROOM NUMBER
RO	ROUGH OPENING
RUB	RUBBER
RWR	RECESSED WASTE RECEPTACLE
RV	ROOF VENT
RX	REMOVE EXISTING
S	SILL, SOUTH OR SINGLE
SCH	SCHEDULE OR SCHEDULED
SC	SPECIAL COATING (OTHER THAN PAINT SYSTEMS)
SD	SOAP DISPENSER OR STORM DRAIN
SCR	SHOWER CURTAIN ROD
SECT	SECTION
SF	SQUARE FOOT
S/F	STOREFRONT
SFT	STRUCTURAL FACING TILE
SH	SHOWER
SHT	SHEET
SIM	SIMILAR
SJ	STEEL JOIST
SOD	SECTIONAL OVERHEAD DOOR (STEEL; ALUMINUM; PLASTIC PANEL)
SND	SANITARY NAPKIN DISPOSAL
SPEC	SPECIFICATION
SP	STAND PIPE
SQ	SQUARE
SS	STAINLESS STEEL OR SERVICE SINK
SSM	SOLID SURFACING MATERIAL
STAT	STATIONARY
STL	STEEL
STRUCT	STRUCTURAL OR STRUCTURE
SUP	SUPERVISOR
SUSP	SUSPENDED
SWR	SURFACE-MOUNTED WASTE RECEPTACLE
SYS	SYSTEM
T	TILE
TOB	TOWEL BAR
T&B	TOP & BOTTOM
TC	TOP OF CURB
TCD	TOILET SEAT COVER DISPENSER
TER	TERRAZZO
TH	THICK
TOS	TOP OF STEEL
T&G	TONGUE & GROOVE
TEL	TELEPHONE
TO	TOP OF
TOW	TOP OF WALL
TP	TOILET PARTITION (WATER CLOSET; URINAL)
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
U	UNIT
	SHOWER: SCREEN)
TR	TREAD
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VDB	VISUAL DISPLAY BOARD (HINGED CONFERENCE UNIT)
VERT	VERTICAL
VEST	VESTIBULE
VP	VAPOR BARRIER
VS	VERTICAL STANDPIPE
VIF	VERIFY IN FIELD
VRC	VERTICAL RECIPROCATING CONVEYOR
W	WOMEN, WIDTH; WEST OR WOVEN
W/	WITH
WC	WATER CLOSET OR WALL COVERING (VINYL OR TEXTILE WALL COVERING; WALL PAPER)
WH	WEEP HOLE
WHT	WHITE
WD	WOOD
WP	WATERPROOF OR WORKING POINT
WO	WINDOW OPENING
WOM	WALK OFF MAT
WR	WATER RESISTANT OR WASTE RECEPTACLE
WT	WEIGHT
WWF	WOVEN WIRE FABRIC
YD	YARD
YR	YEAR

LEGEND

BRICK

CONCRETE MASONRY UNITS

STRUCTURAL CLAY UNITS

GYPSUM BOARD PARTITIONS

WOOD-FINISH GRADE

WOOD BLOCKING

RIGID WALL/PERIMETER INSULATION

RIGID ROOF INSULATION

BATT INSULATION

CONCRETE

POROUS FILL

EARTH

METAL PATTERN

N

NORTH ARROW (TRUE NORTH)

DOOR NUMBER SYMBOL

LOUVER NUMBER SYMBOL

WINDOW NUMBER SYMBOL

RMNO AR FIN — ROOM NUMBER SYMBOL (FLOOR PLANS)

RMNO — ROOM NUMBER SYMBOL (REFLECTED CEILING PLANS AND BUILDING SECTIONS)

BUILDING SECTION SYMBOL

WALL SECTION SYMBOL

ELEVATION SYMBOL

INTERIOR ELEVATION SYMBOL

TITLE AND DETAIL REFERENCE SYMBOL

1X.1 — PARTITION TYPES
- WALL TYPE VARIANT OR CMU NOMINAL THICKNESS
- WALL TYPE
- FIRE RATING (IN HOURS)

NUMBER-DRAWING NOTE

REVISION

NORTH ARROW (CONSTRUCTION NORTH)

LETTER INDICATES SECTION OR ELEVATION
NUMBER INDICATES DETAIL

DETAIL, SECTION OR ELEVATION DESIGNATOR

DRAWING NUMBER WHERE DETAIL, SECTION OR ELEVATION IS DRAWN

CALLOUT REFERENCE SYMBOL
GRAPHICS VARY AS SHOWN ABOVE

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming

WR&A

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ARCHITECTURAL ABBREVIATIONS AND LEGEND

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L01

SHEET NO. 50 OF 443

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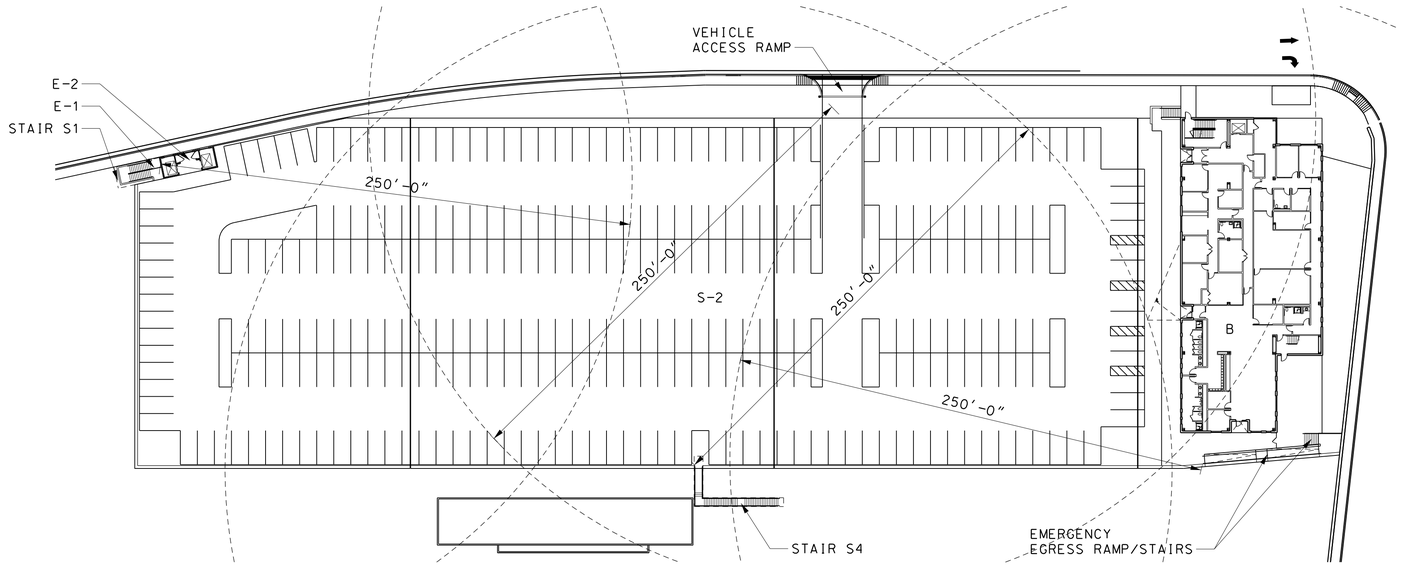
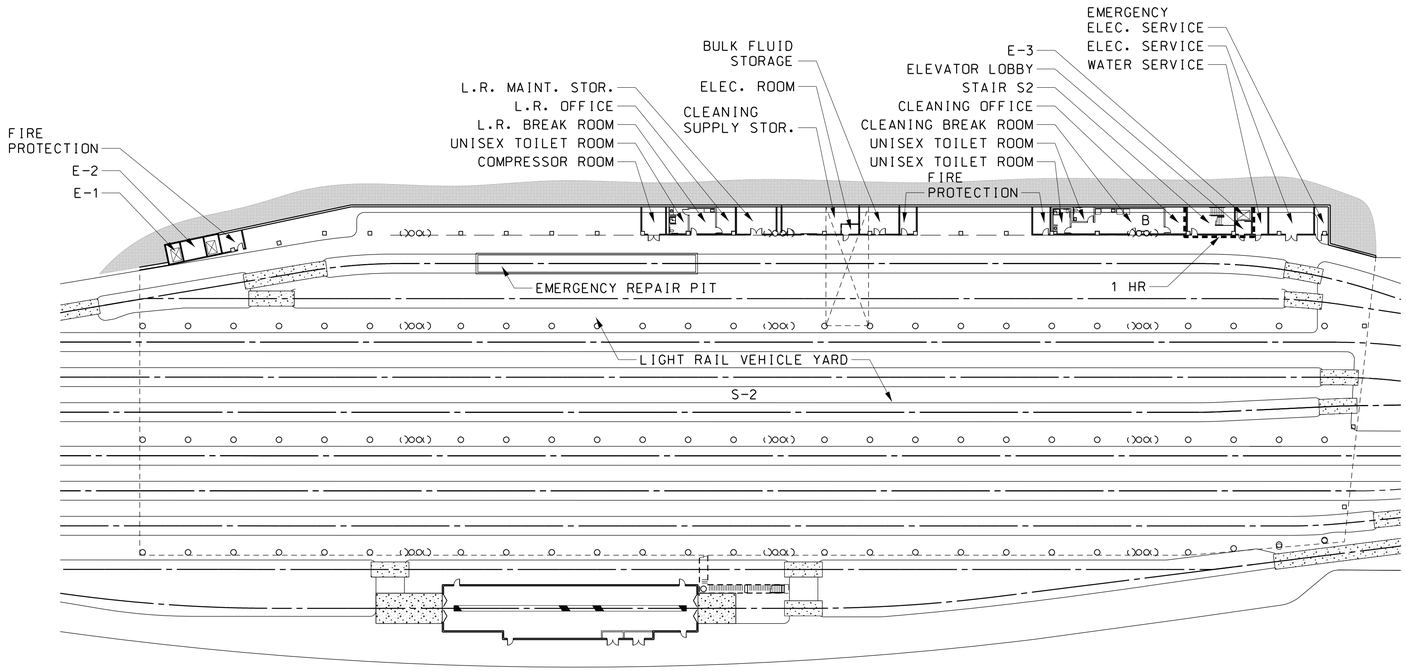
11/13/2013



DECK LEVEL CODE ANALYSIS

SCALE: 1" = 40'



YARD LEVEL CODE ANALYSIS PLAN

SCALE: 1" = 40'

BUILDING CODE INFORMATION

A. APPLICABLE CODES:

1. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE W/ MONTGOMERY CO. AMENDMENTS
2. SPRINKLER SYSTEM: 2007 NFPA 13
3. LIFE SAFETY CODE: 2012 NFPA101W/ MONTGOMERY CO. AMENDMENTS
4. ACCESSIBILITY: COMAR 05.02.02 ADDAAG 1994

B. BUILDING HEIGHTS AND AREA:

1. CONSTRUCTION TYPE: IIA (PROTECTED)

2. OCCUPANCY CLASSIFICATION: SEPARATED MIXED USE, B, BUSINESS & S-2, LIGHT-HAZARD STORAGE

3. ALLOWABLE AREA, USE S-2: 39,000 SF
   FRONTAGE INCREASE(65%): 25,350 SF
   SPRINKLER INCREASE(200%): 78,000 SF
   TOTAL INCREASE ALLOWED: 142,350 SF
   FLOOR AREA PROVIDED: 117,000 SF

4. ALLOWABLE AREA, USE B: 37,500 SF
   FRONTAGE INCREASE(30%): 11,250 SF
   SPRINKLER INCREASE(200%): 75,000 SF
   TOTAL INCREASE ALLOWED: 123,725 SF
   FLOOR AREA PROVIDED: 11,540 SF

5. RATIO OF AREA PROVIDED BY USE:
   S-2: 117,000/142,350 = .82
   B: 11,540/123,725 = .092
   SUM OF RATIOS: .92 < 1.0 (SEE SECTION 508.4.2)

6. YARD LEVEL SQUARE FOOTAGE: 117,000 SF

7. FIRST FLOOR SQUARE FOOTAGE: 11,540 SF

8. SECOND FLOOR SQUARE FOOTAGE: 7,765 SF

C. OCCUPANCY CALCULATION:

1. YARD: N/A
2. FIRST FLOOR BUSINESS: 11,540 SF/100 GROSS = 116
3. FIRST FLOOR STORAGE S-2: 93,280 SF/300 GROSS = 311
4. SECOND FLOOR BUSINESS: 7,765 SF/100 GROSS = 78
5. TOTAL BUSINESS: 194
6. TOTAL STORAGE: 311

D. OCCUPANCY AND EGRESS:

1. AUTOMATIC SPRINKLER AND EMERGENCY VOICE/ALARM COMM. SYSTEM

2. FIRST FLOOR OCCUPANTS, USE B: 116, USE S-2: 311
   REQD. DOORS/CORRIDORS WIDTH: (0.2 x OCC.) = 24" (2'-0")
   PROVIDED DOOR WIDTH: USE B: 216" (18'-0"), USE S-2: N/A
   PROVIDED CORRIDOR WIDTH: USE B: 48" (4'-0")

3. SECOND FLOOR OCCUPANTS, USE B:78
   REQD. DOORS/CORRIDORS WIDTH: (0.2 x OCC.) = 24" (2'-0")
   PROVIDED DOOR WIDTH: USE B: 72" (6'-0")
   PROVIDED CORRIDOR WIDTH: USE B: 48" (4'-0")

4. ALLOWABLE TRAVEL DISTANCE:
   USE (B) WITH SPRINKLER SYSTEM: 300'
   USE (S-2) WITH SPRINKLER: 250'

E. SEPARATION OF USE GROUPS:

1. BETWEEN TYPE B AND TYPE S-2: 1 HR WITH SPRINKLERS

F. FIRE-RESISTANCE RATING RQMTS. FOR BUILDING ELEMENTS (TABLE 601)

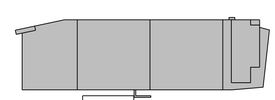
1. PRIMARY STRUCTURAL FRAME: 1 HR
2. EXTERIOR NON-BEARING WALLS: 0 HR (DISTANCE FROM ADJACENT USE > 15' AND < 20')
3. FLOOR CONSTRUCTION: 1 HR
4. ROOF CONSTRUCTION: 1 HR

GENERAL NOTES

1. IN ACCORDANCE WITH FIRE SAFETY CODE 29-08AM NO PORTION OF BUILDING FOOTPRINT IS MORE THAN 450 FEET FROM A FIRE DEPARTMENT APPARATUS ACCESS POINT.

LEGEND

---------- 1 HR FIRE PARTITION/ ENCLOSURE



KEY PLAN

40' 0 40' 80'

SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CODE ANALYSIS – YARD AND DECK LEVELS

DATE: DECEMBER 2013 SCALE: 1" = 40'

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L02

SHEET NO. 51 OF 443

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11/13/2013

BUILDING CODE INFORMATION

A. APPLICABLE CODES:

1. BUILDING CODE: 2012 INTERNATIONAL BUILDING CODE W/ MONTGOMERY CO. AMENDMENTS
2. SPRINKLER SYSTEM: 2007 NFPA 13
3. LIFE SAFETY CODE: 2012 NFPA101 W/ MONTGOMERY CO. AMENDMENTS
4. ACCESSIBILITY: COMAR 05.02.02 ADDAAG 1994

B. BUILDING HEIGHTS AND AREA:

1. CONSTRUCTION TYPE: IIA (PROTECTED)

2. OCCUPANCY CLASSIFICATION: S-2, LIGHT-HAZARD STORAGE

3. ALLOWABLE AREA, USE S-2: 39,000 SF
   AREA PROVIDED: 3,695 SF

C. OCCUPANCY CALCULATION: N/A

D. OCCUPANCY AND EGRESS:

1. AUTOMATIC SPRINKLER AND EMERGENCY VOICE/ALARM COMM. SYSTEM

2. FIRST FLOOR OCCUPANTS: 12
   REQD. DOORS/CORRIDORS WIDTH: (0.2 x OCC.)= 2.4"
   PROVIDED DOOR WIDTH: 144" (12'-0")
   PROVIDED CORRIDOR WIDTH: USE B: 48"(4'-0")

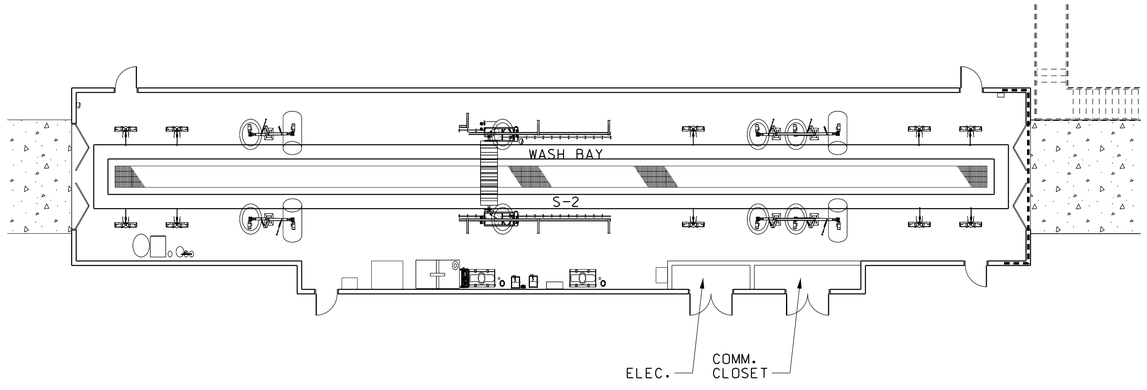
3. ALLOWABLE TRAVEL DISTANCE:
   USE (S-2) WITH SPRINKLER: 250'

E. SEPARATION OF USE GROUPS: N/A

F. FIRE-RESISTANCE RATING RQMTS. FOR BUILDING ELEMENTS (TABLE 601)

1. PRIMARY STRUCTURAL FRAME: 1 HR
2. EXTERIOR NON-BEARING WALLS: 0 HR (DISTANCE FROM ADJACENT USE > 15' AND < 20')
3. FLOOR CONSTRUCTION: 1 HR
4. ROOF CONSTRUCTION: 1 HR

G. 1 HR SEPARATION REQUIRED BETWEEN WASH BUILDING AND EGRESS STAIR.

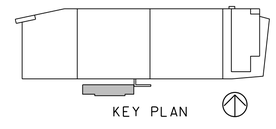


WASH BUILDING CODE ANALYSIS

SCALE: $^{3}/_{32}$" = 1'-0"

LEGEND

1 HOUR FIRE PARTITION/ENCLOSURE



KEY PLAN

12' 0 12' 24'

SCALE: $^{3}/_{32}$"=1'-0"

MARYLAND DEPARTMENT OF TRANSPORTATION

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DESN RJH
DRAWN RJH
CHECK DAK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CODE ANALYSIS – WASH BUILDING

DATE: DECEMBER 2013 SCALE: 3/32" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L03
SHEET NO. 52 OF 443

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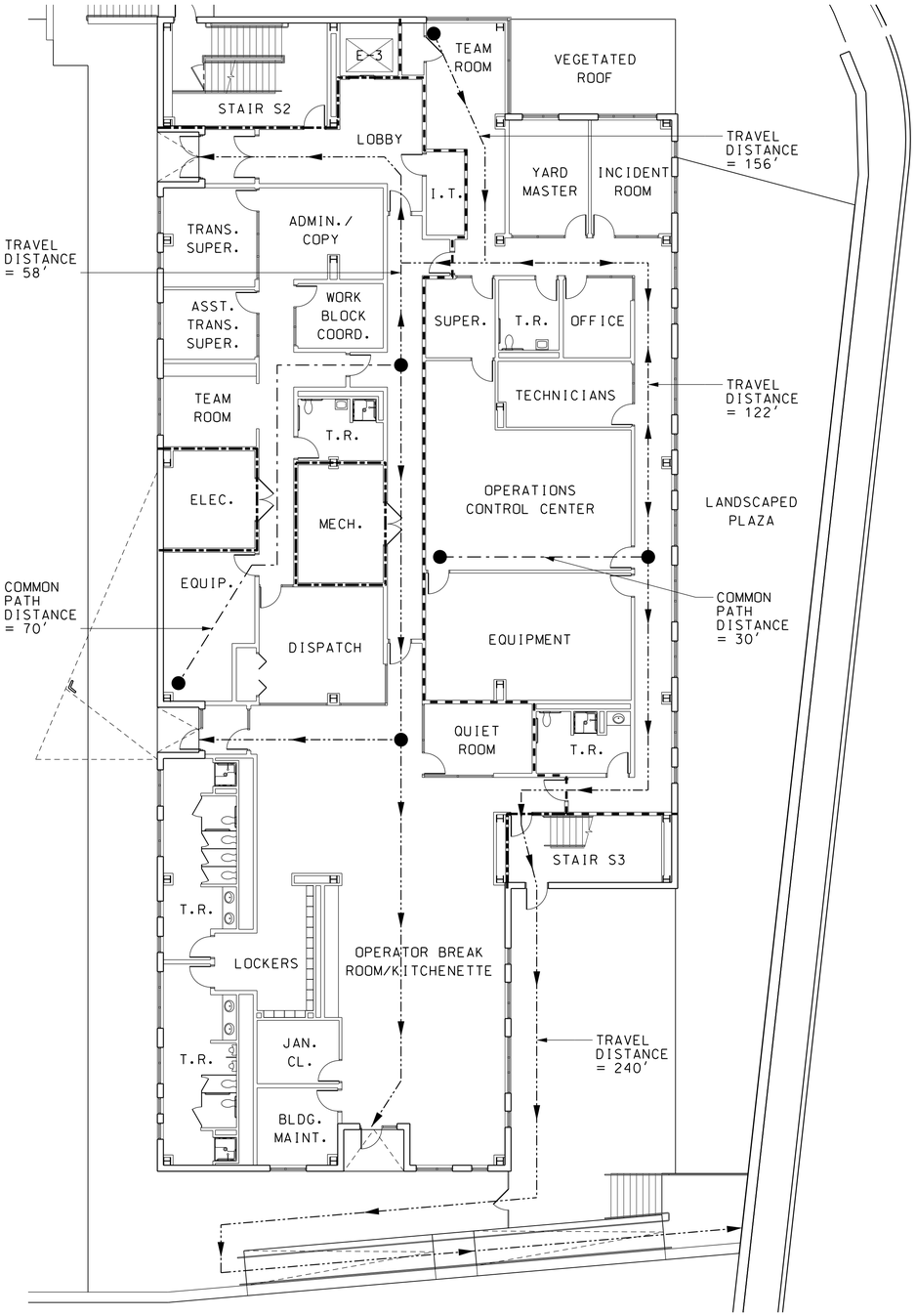
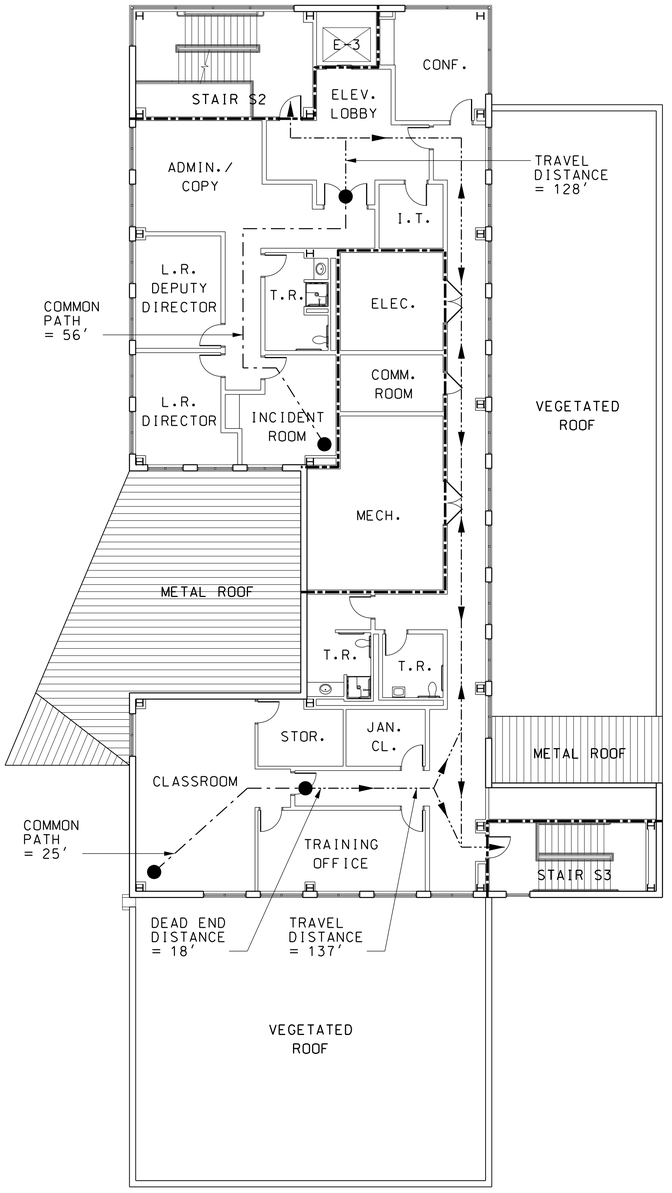
11/13/2013



OFFICE FIRST FLOOR CODE ANALYSIS

SCALE: $\frac{3}{32}$"=1'-0"

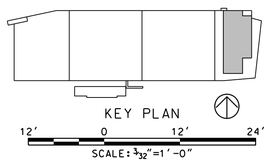


OFFICE SECOND FLOOR CODE ANALYSIS

SCALE: $\frac{3}{32}$"=1'-0"

LEGEND

- 1 HR FIRE PARTITION/ ENCLOSURE
- 2 HR FIRE PARTITION/ ENCLOSURE
- TRAVEL DISTANCE
- COMMON PATH



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CHECK	DAK
APPR	

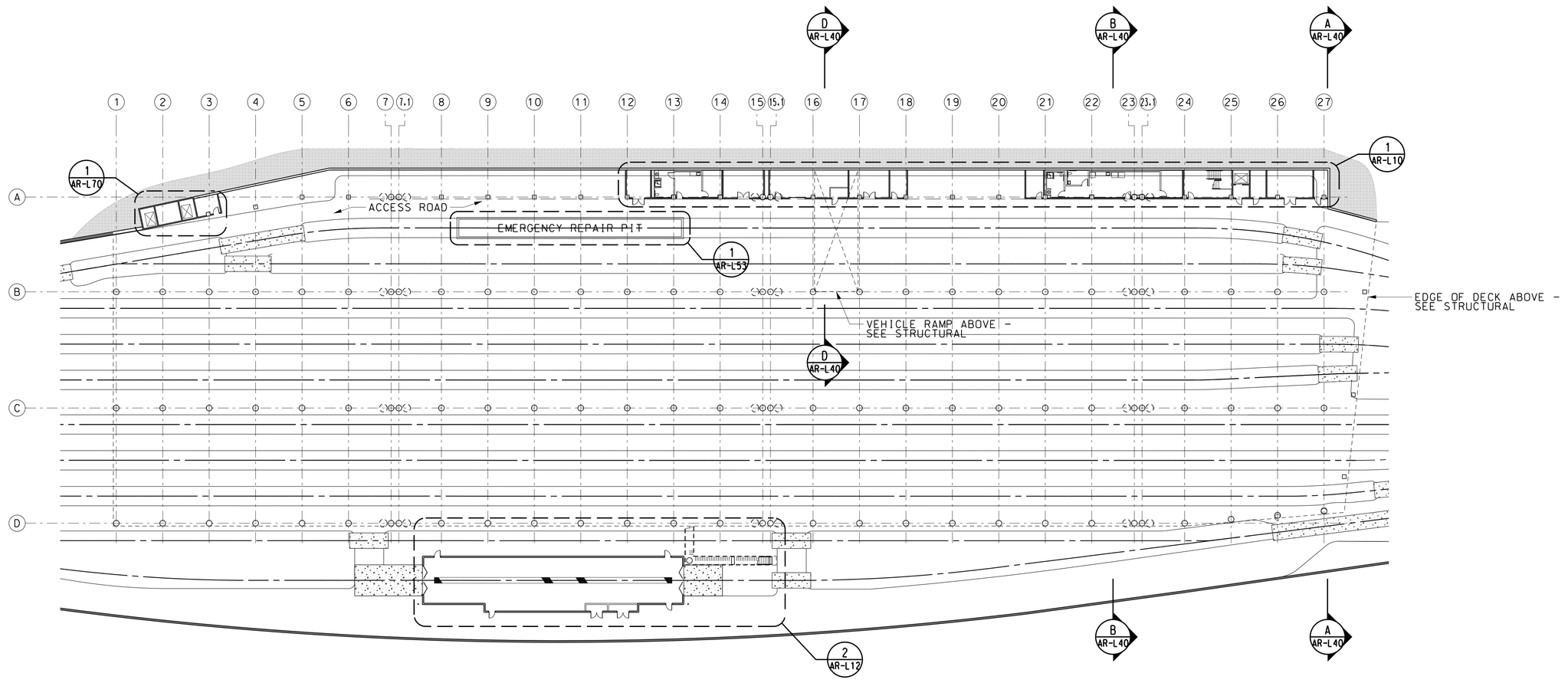
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CODE ANALYSIS – OFFICE 1ST AND 2ND FLOORS

DATE: DECEMBER 2013 SCALE: 3/32" =1'-0"

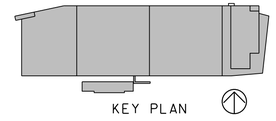
CONTRACT NO. T-1042-0220
DRAWING NO. AR-L04
SHEET NO. 53 OF 443

c:\pwworking\mtapw\wra-ryan hausmann\dms96809\1042pARLA04.dgn
11/13/2013



YARD LEVEL COMPOSITE PLAN

SCALE: 1" = 30'



30' 0 30' 60'

SCALE: 1"=30'

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Gannett Fleming — WR&A

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL – COMPOSITE PLAN

DATE: DECEMBER 2013 SCALE: 1" = 30'

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L05

SHEET NO. 54 OF 443

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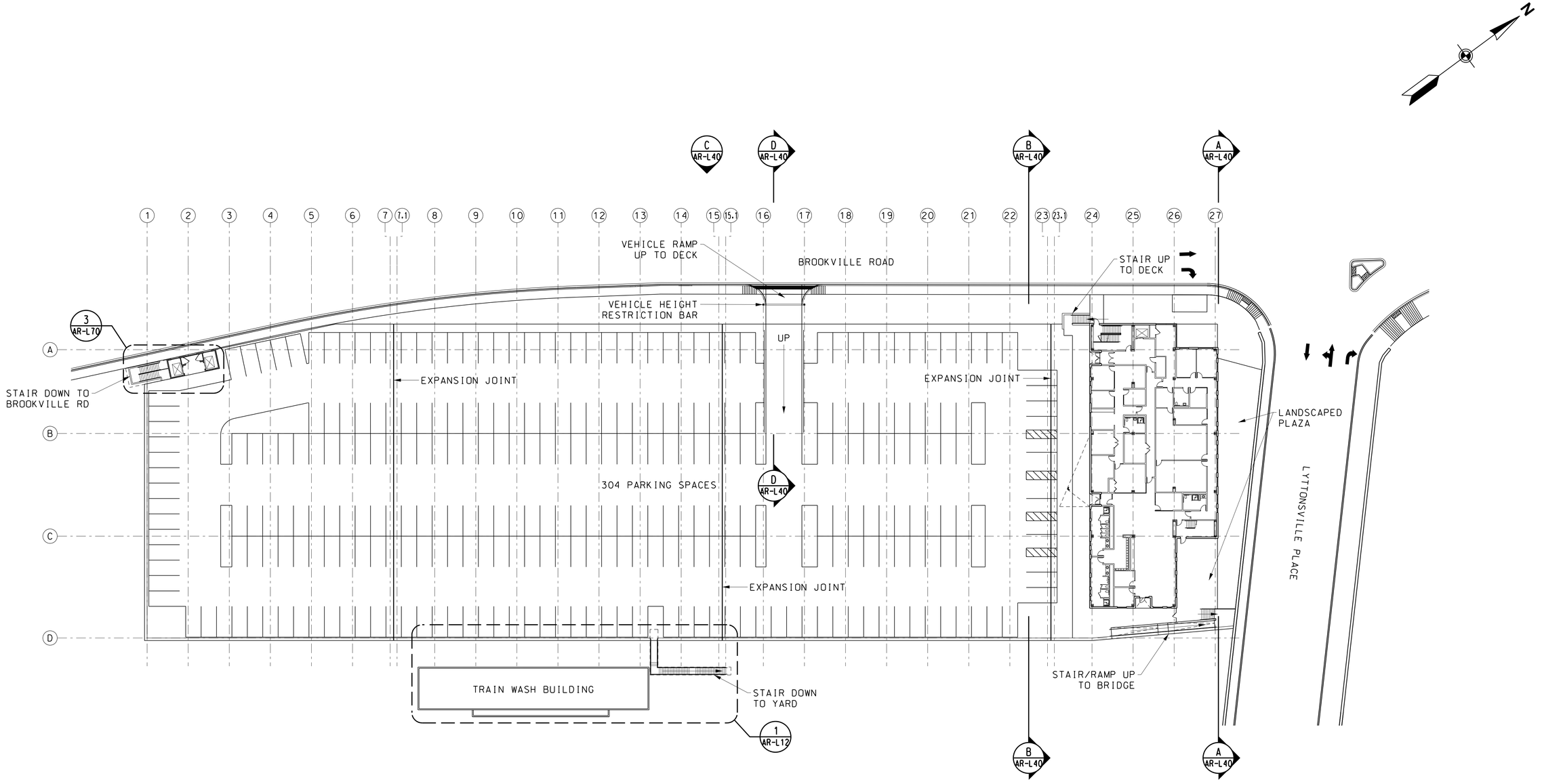
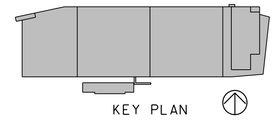
11/13/2013



DECK LEVEL COMPOSITE PLAN

SCALE: 1 " = 30'



30' 0 30' 60'

SCALE: 1"=30'

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DECK LEVEL – COMPOSITE PLAN

DATE: DECEMBER 2013 SCALE: 1" = 30'

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L06
SHEET NO. 55 OF 443

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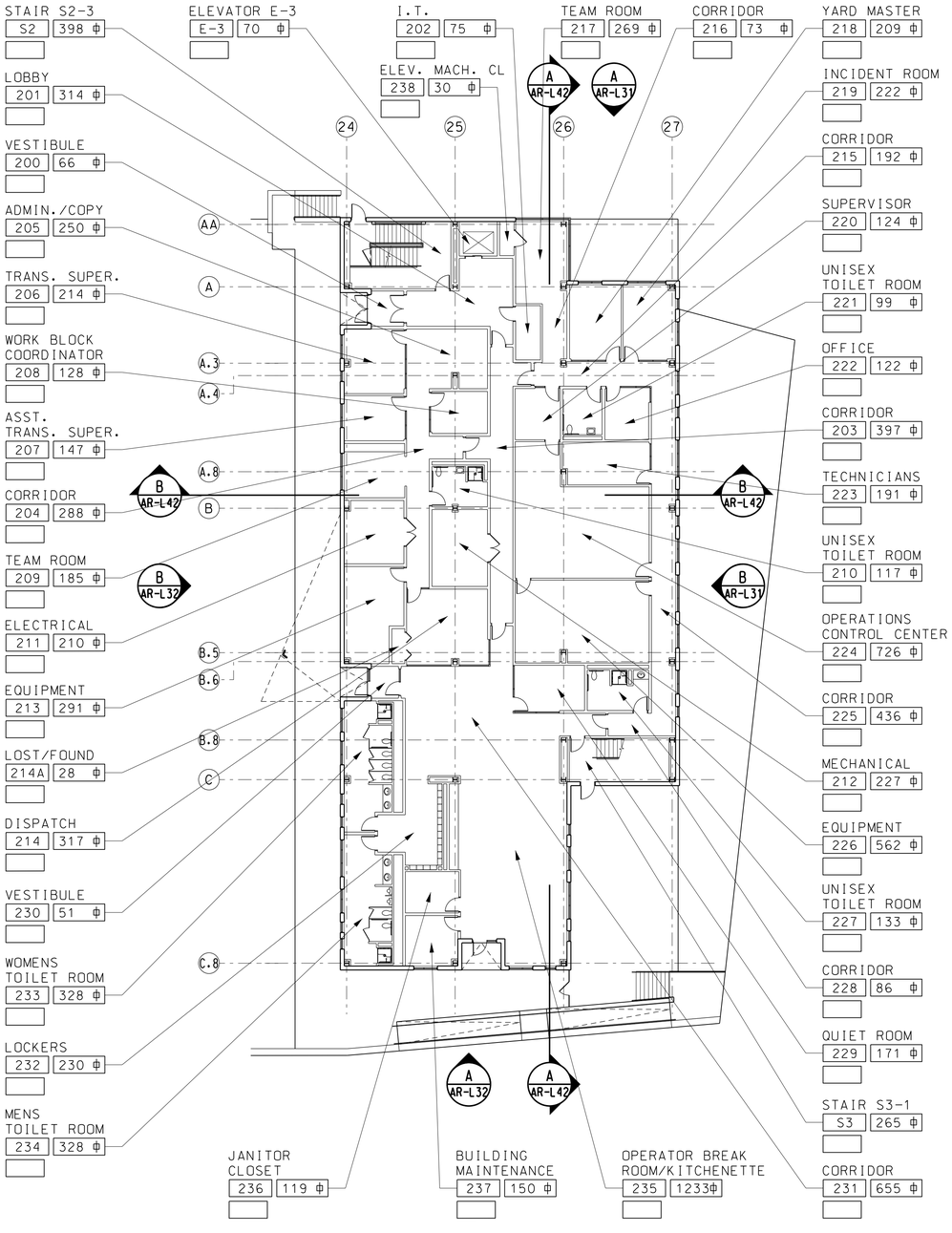
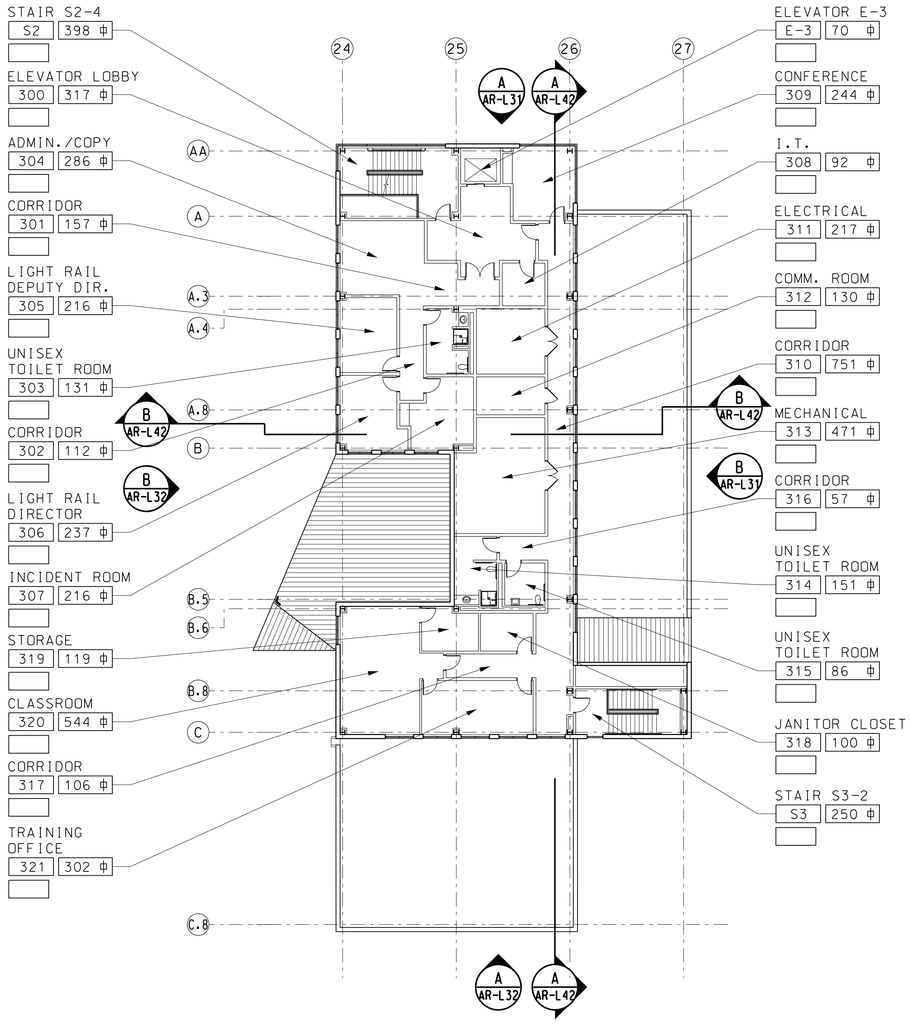
11/13/2013



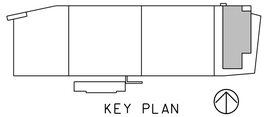
OFFICE FIRST FLOOR COMPOSITE PLAN

SCALE: 1/16" = 1'-0"



OFFICE SECOND FLOOR COMPOSITE PLAN

SCALE: 1/16" = 1'-0"



16' 0 16' 32'

SCALE: 1/16"=1'-0"

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE – 1ST AND 2ND FLR COMPOSITE PLANS

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L07

SHEET NO. 56 OF 443

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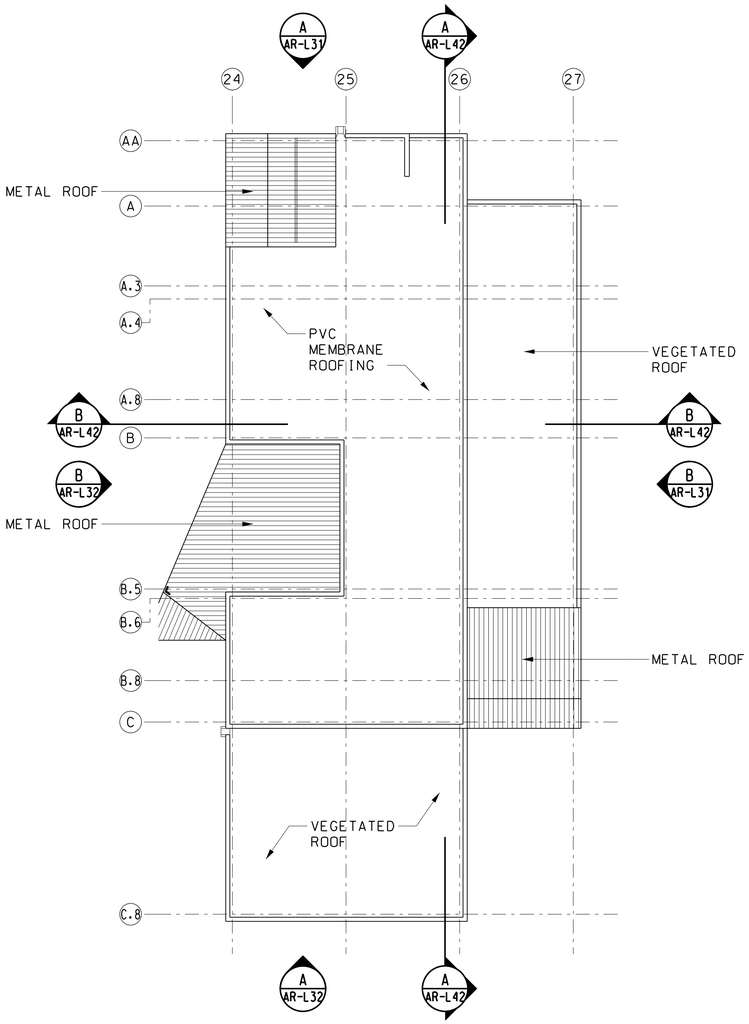
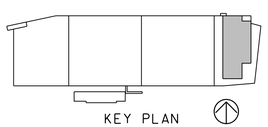
11/13/2013



OFFICE ROOF COMPOSITE PLAN

SCALE: 1/16" = 1'-0"



16' 0 16' 32'

SCALE: 1/16"=1'-0"

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MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE – ROOF COMPOSITE PLAN

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T–1042–0220

DRAWING NO. AR–L08

SHEET NO. 57 OF 443

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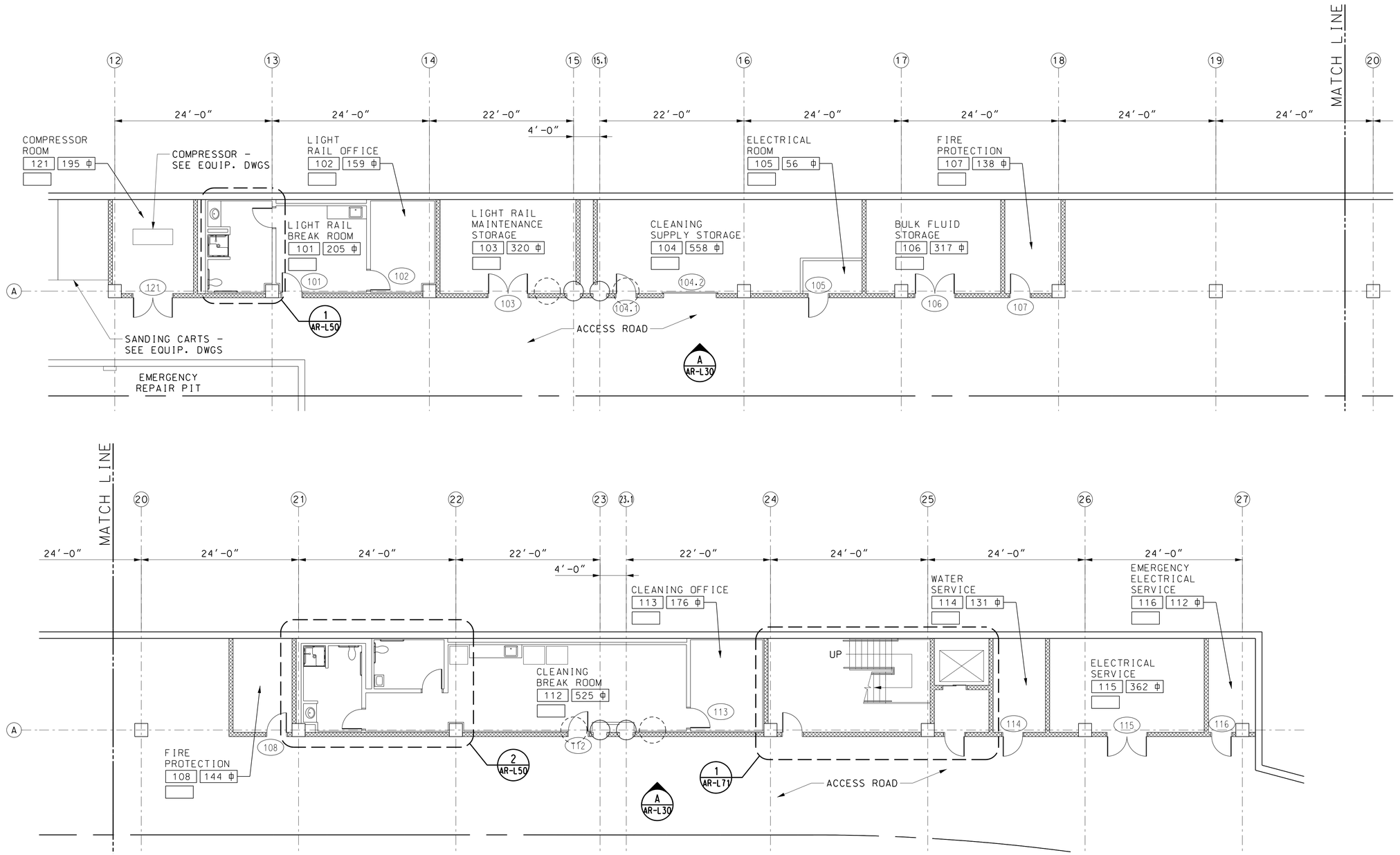
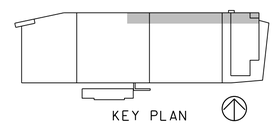
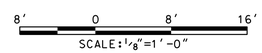
11/13/2013



1 AR-L10 **YARD LEVEL FLOOR PLAN**
SCALE: 1/8"=1'-0"
REF: AR-L05





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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
YARD LEVEL – FLOOR PLAN
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L10
SHEET NO. 58 OF 443

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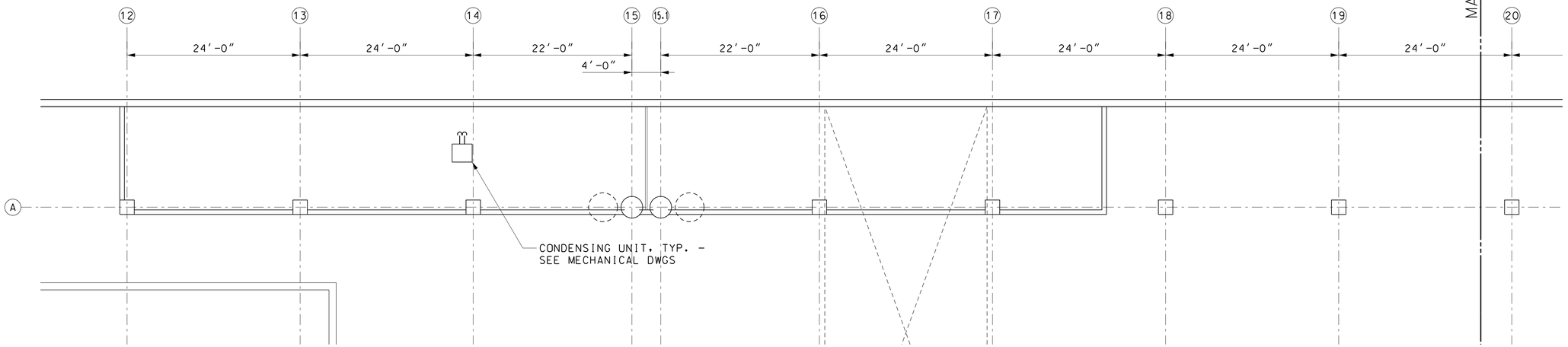
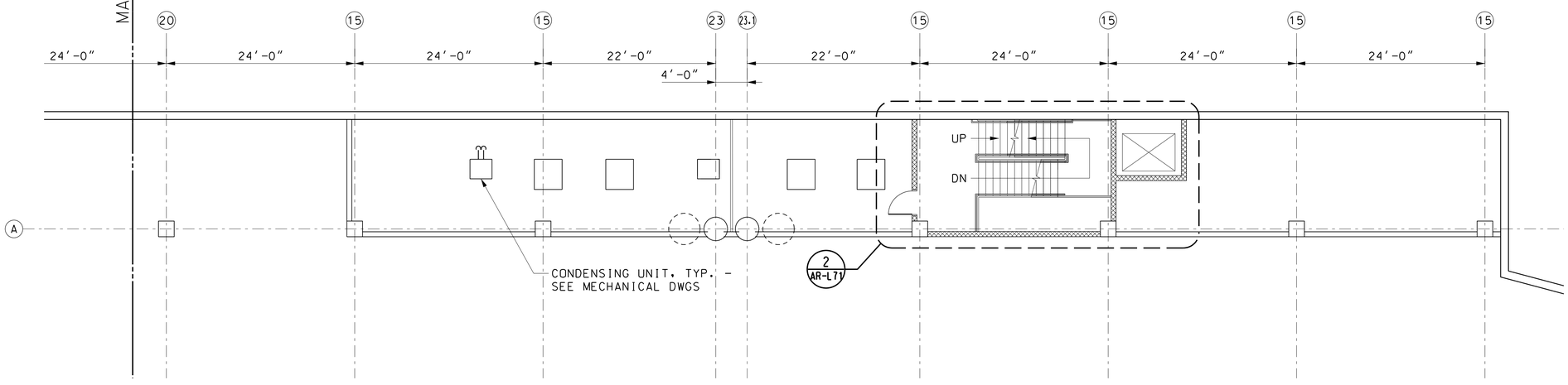
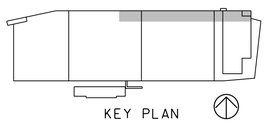
11/13/2013





1 / AR-L11 **YARD LEVEL ROOF PLAN**
SCALE: 1/8"=1'-0"
REF:



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

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL – ROOF PLAN
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T–1042–0220
DRAWING NO. AR–L11
SHEET NO. 59 OF 443

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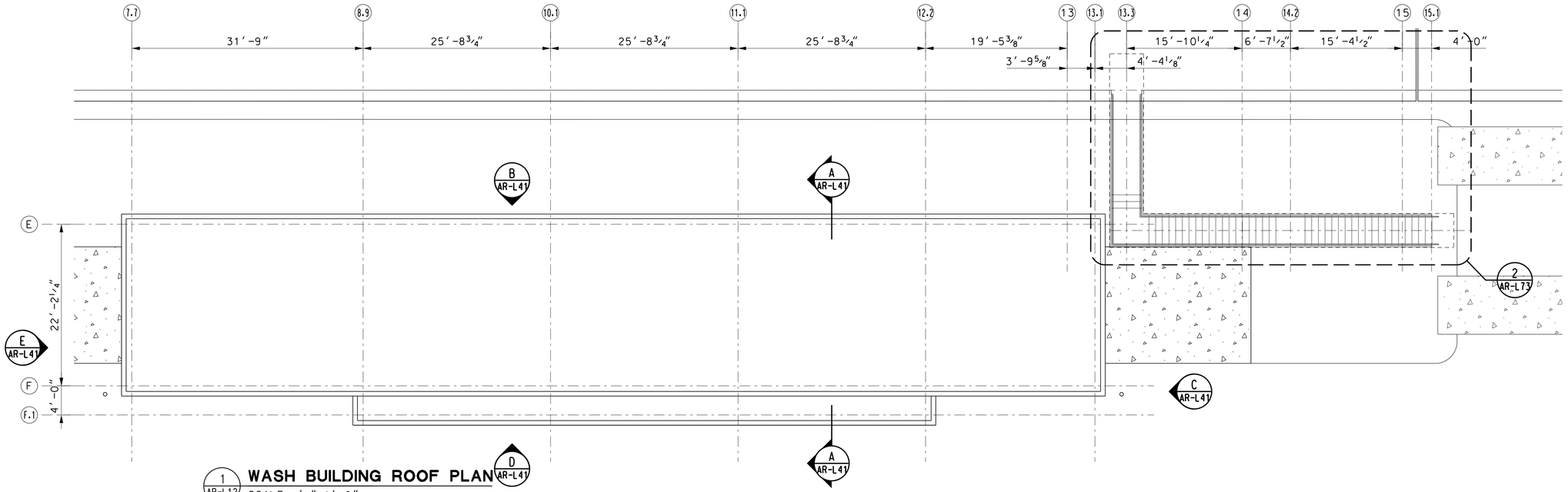
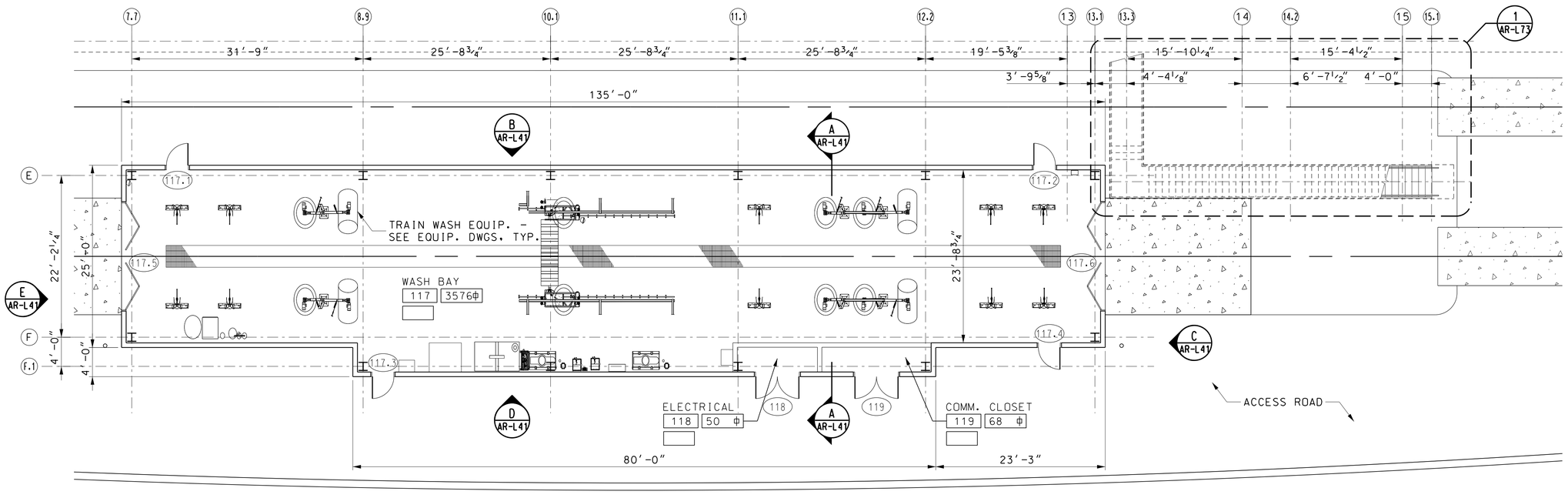
11/13/2013



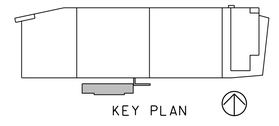
1 AR-L12 WASH BUILDING ROOF PLAN

SCALE: 1/8"=1'-0"
REF: AR-L06



2 AR-L12 WASH BUILDING FLOOR PLAN

SCALE: 1/8"=1'-0"
REF: AR-L05



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

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING – FLOOR AND ROOF PLANS
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L12
SHEET NO. 60 OF 443

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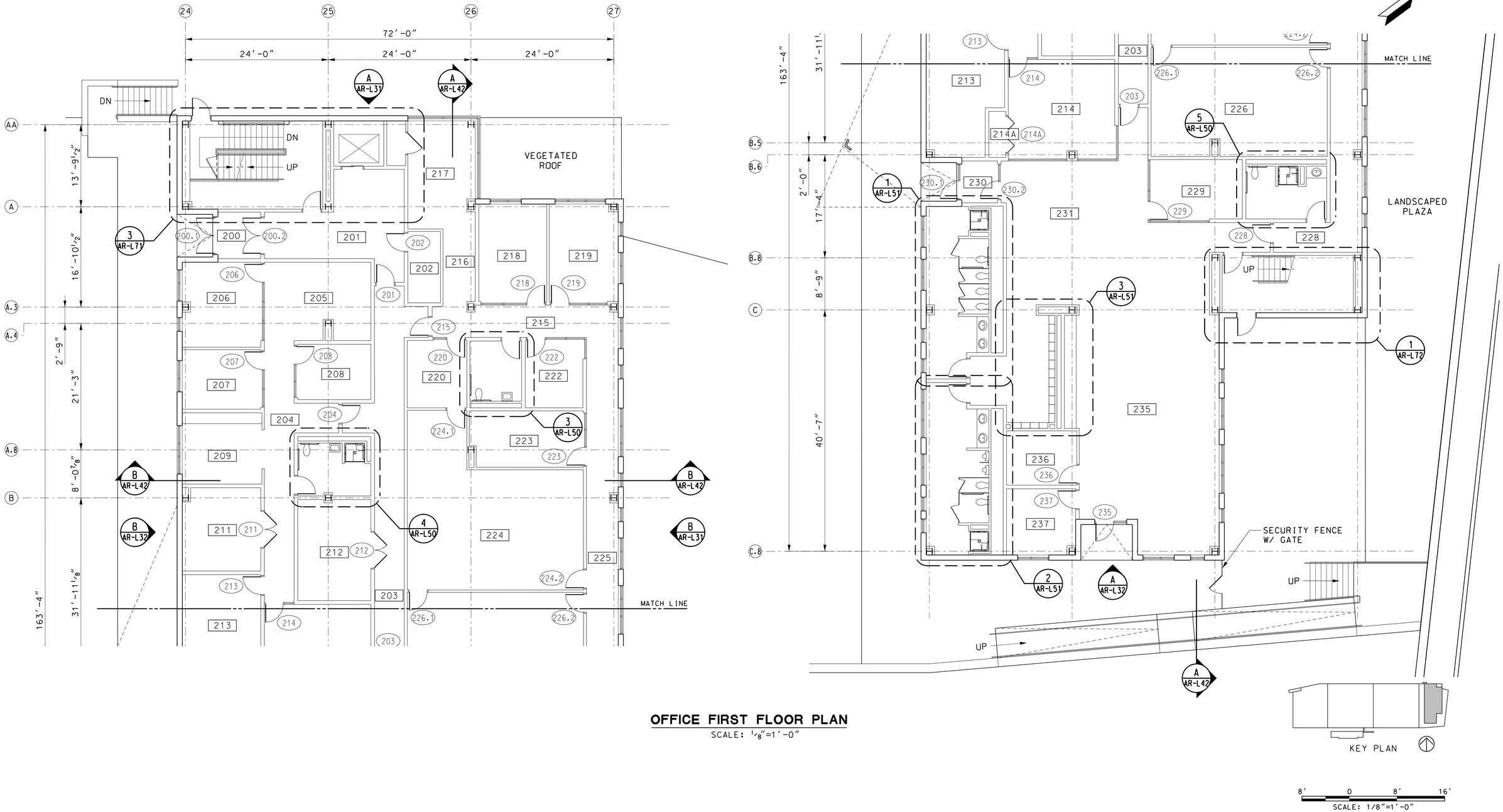
11/13/2013



OFFICE FIRST FLOOR PLAN

SCALE: ⅛″=1′-0″

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE – FIRST FLOOR PLAN

DATE: DECEMBER 2013 SCALE: 1⁄8″ =1′–0″

CONTRACT NO. T–1042–0220
DRAWING NO. AR–L13
SHEET NO. 61 OF 443

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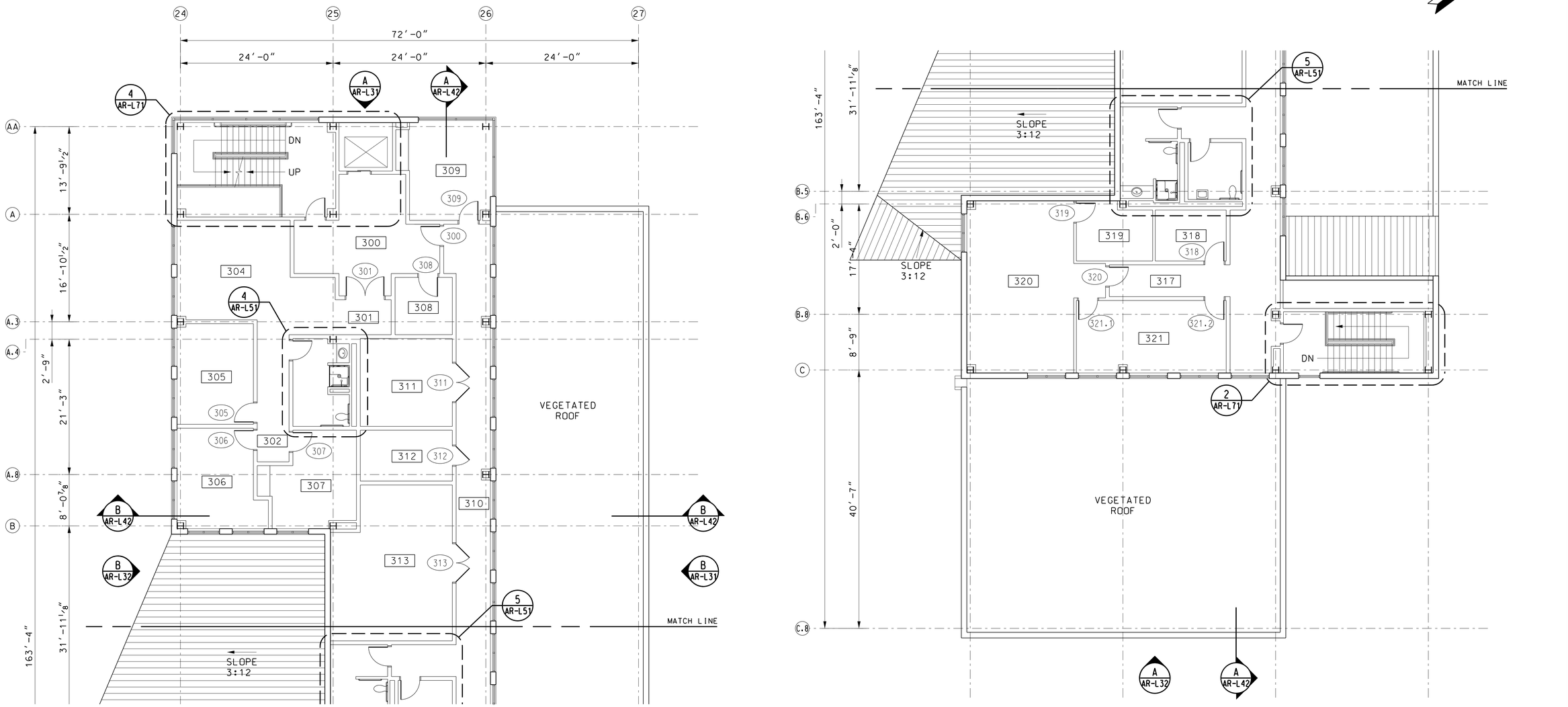
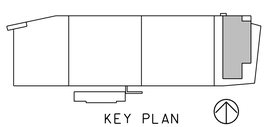
11/13/2013



OFFICE SECOND FLOOR PLAN

SCALE: ⅛″=1′-0″



8′ 0 8′ 16′

SCALE: ⅛″=1′-0″

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE – SECOND FLOOR PLAN

DATE: DECEMBER 2013 SCALE: 1⁄8″ =1′–0″

CONTRACT NO. T–1042–0220
DRAWING NO. AR–L14
SHEET NO. 62 OF 443

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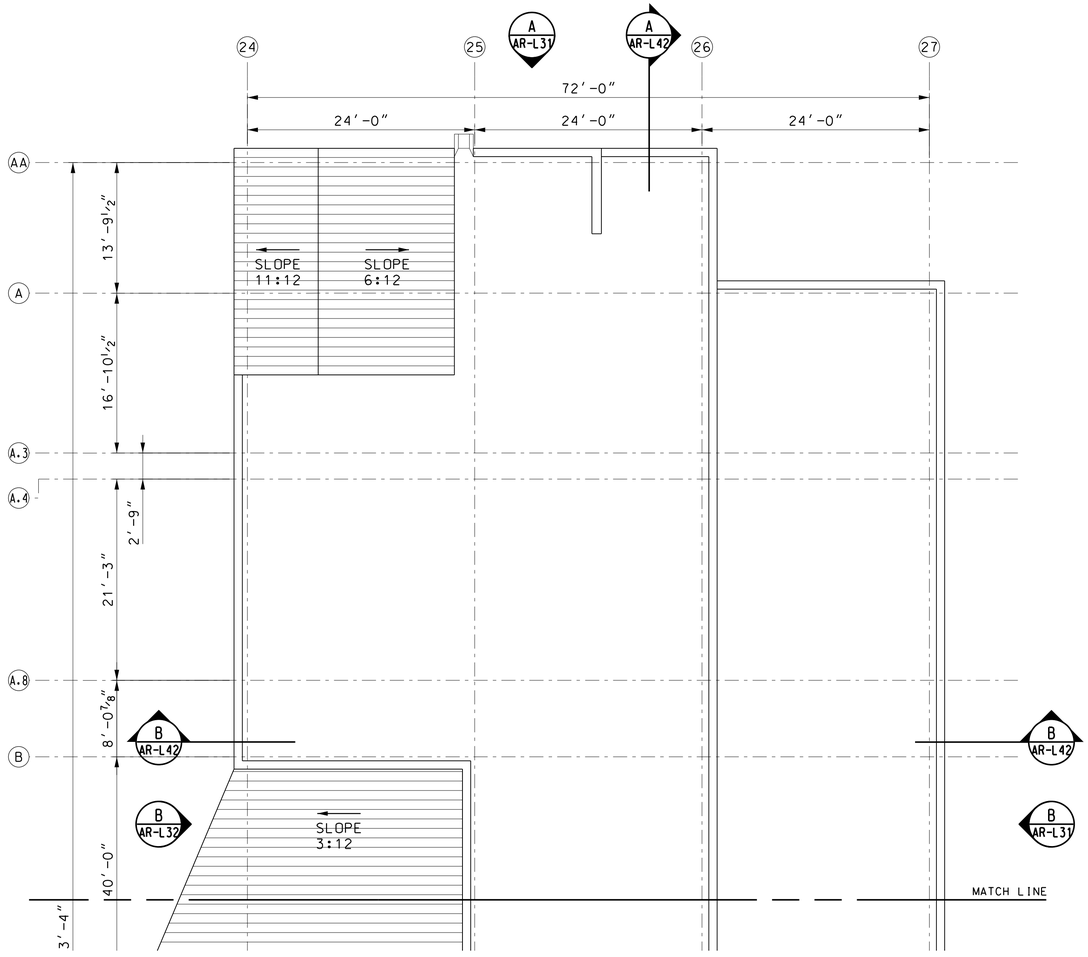
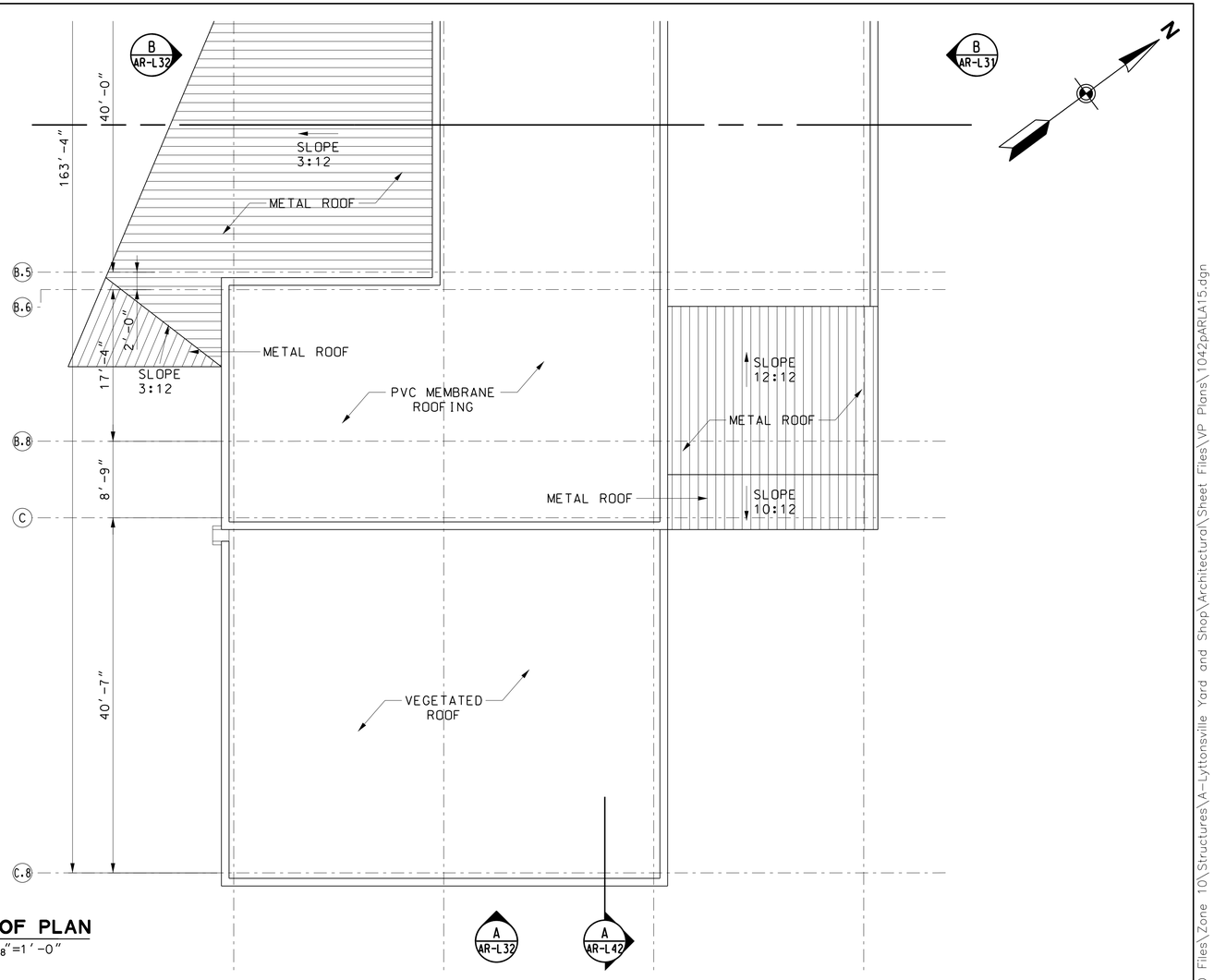
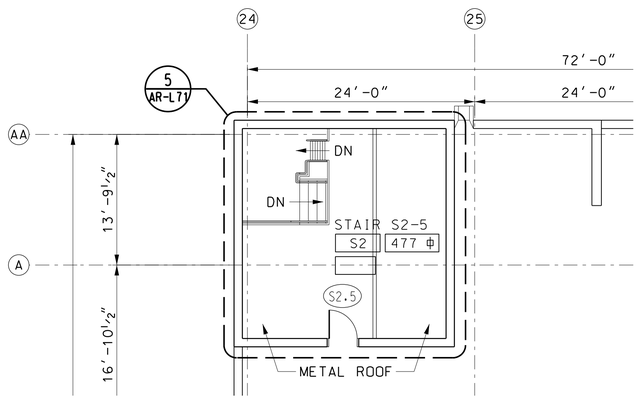
11/13/2013



OFFICE ROOF PLAN

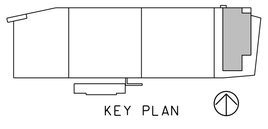
SCALE: ⅛"=1'-0"





OFFICE ROOF STAIR PLAN

SCALE: ⅛"=1'-0"



8' 0 8' 16'

SCALE: ⅛"=1'-0"

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

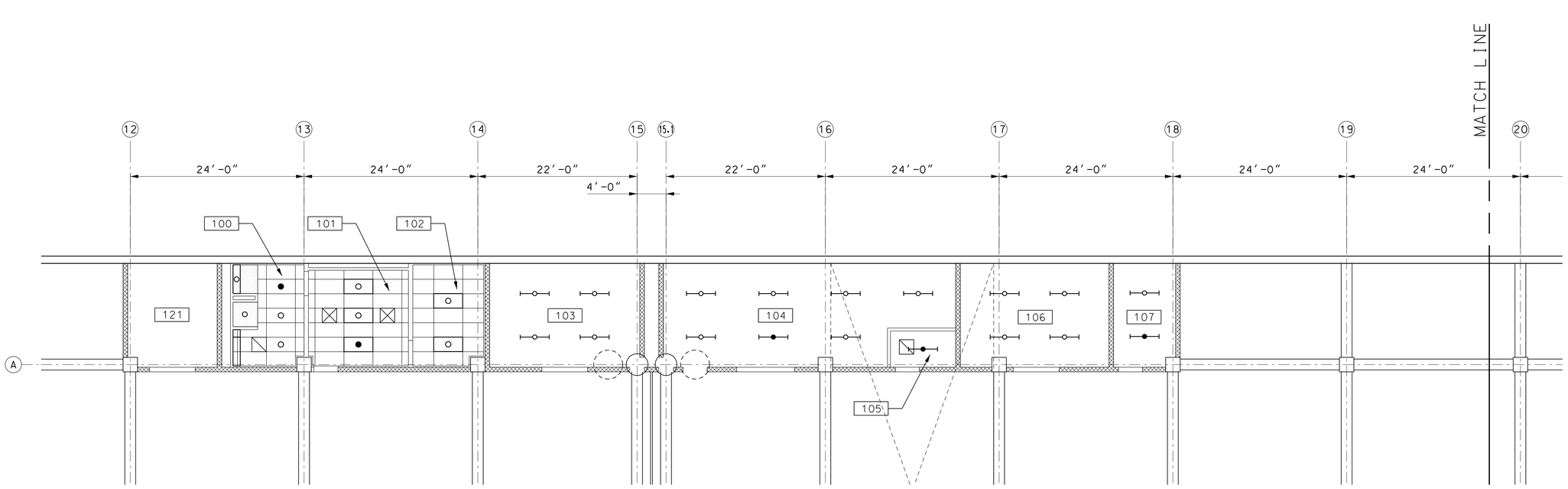
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

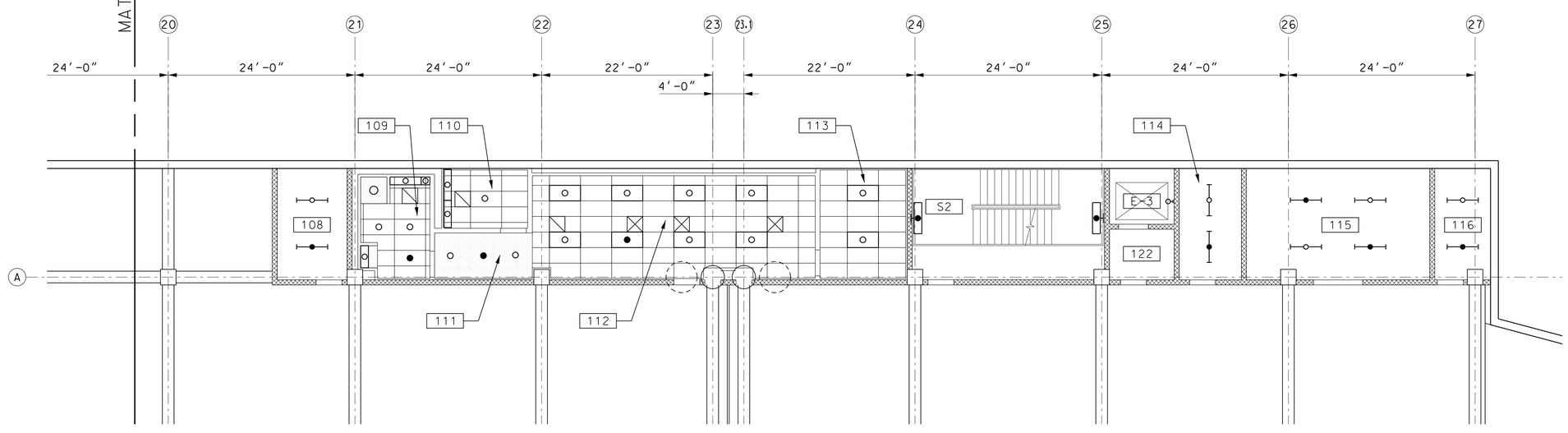
LYTTONSVILLE YARD FACILITY
OFFICE – ROOF PLAN

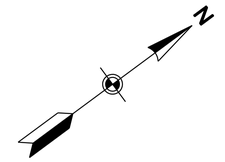
DATE: DECEMBER 2013 SCALE: 1⅛" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L15
SHEET NO. 63 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Architectural\Sheet Files\VP Plans\1042pARLA15.dgn
12/6/2013

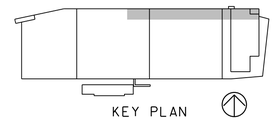






LEGEND

- LIGHT FIXTURES SEE ELECTRICAL
- MECHANICAL DIFFUSER/ GRILLE
- GYPSUM BOARD
- APC
- OPEN TO STRUCTURE



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

YARD LEVEL REFLECTED CEILING PLAN

SCALE: 1/8"=1'-0"

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MTA Maryland

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL – REFLECTED CEILING PLAN

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L20
SHEET NO. 64 OF 443

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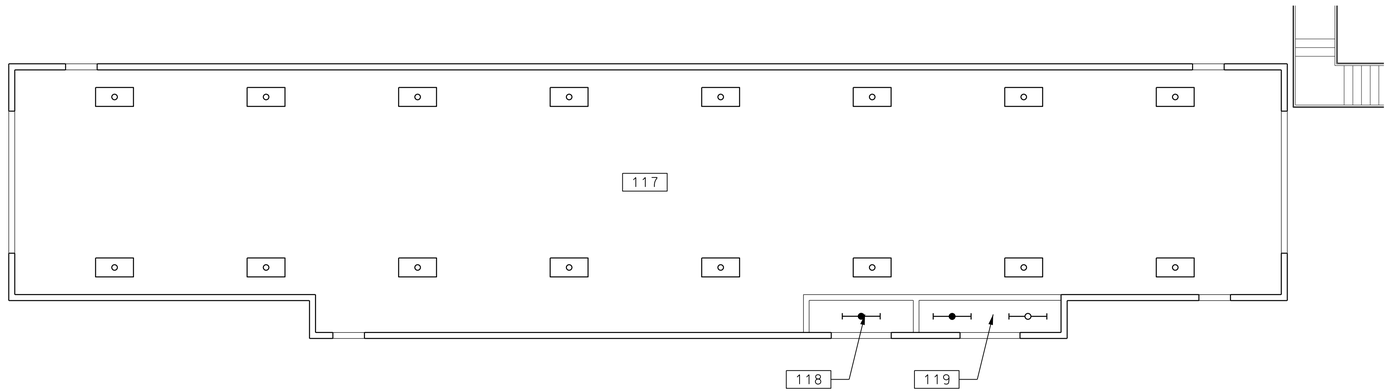
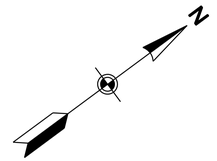
11/13/2013



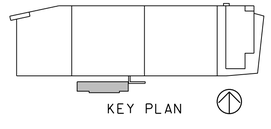
WASH BUILDING REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"



LEGEND

- LIGHT FIXTURES SEE ELECTRICAL
- MECHANICAL DIFFUSER/ GRILLE
- GYPSUM BOARD
- APC
- OPEN TO STRUCTURE



KEY PLAN

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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Gannett Fleming — WR&A

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING – REFLECTED CEILING PLAN

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L21

SHEET NO. 65 OF 443

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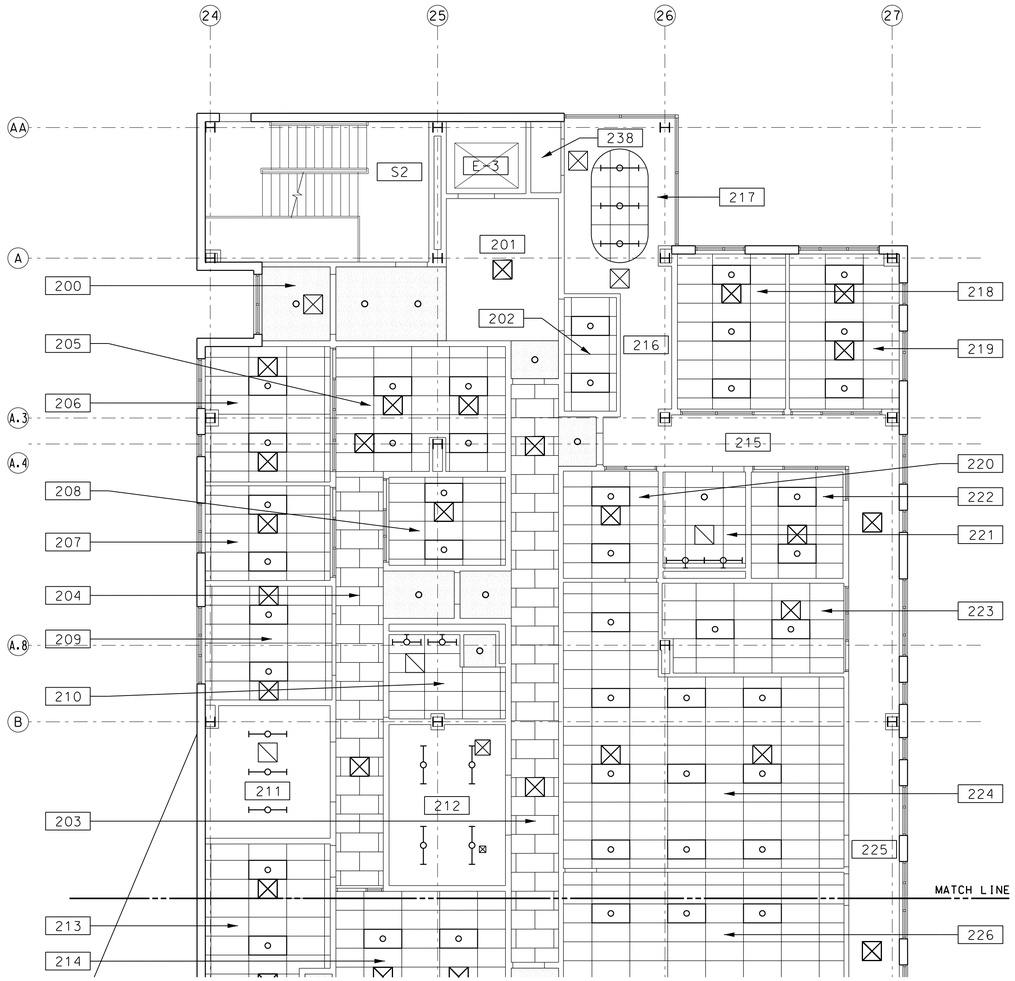

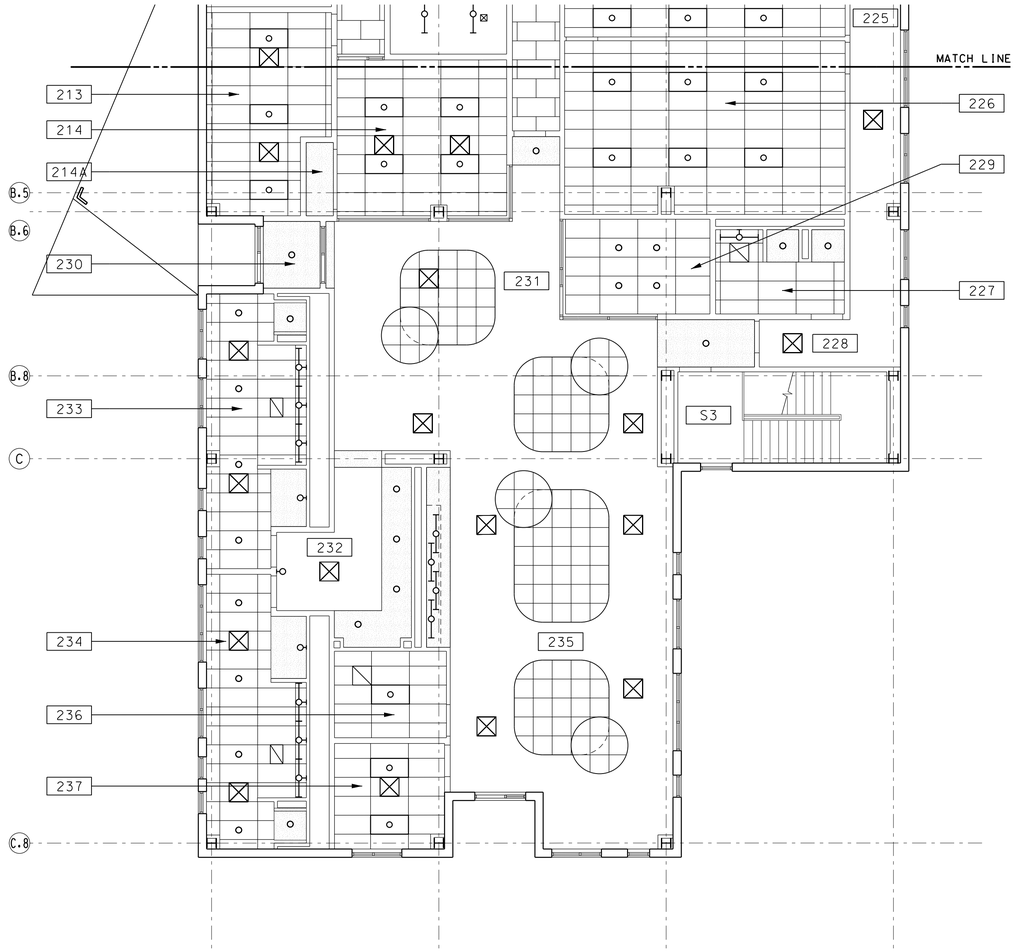

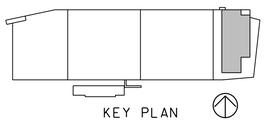

LEGEND

- LIGHT FIXTURES SEE ELECTRICAL
- MECHANICAL DIFFUSER/GRILLE
- GYPSUM BOARD
- APC
- OPEN TO STRUCTURE

8′ 0 8′ 16′
SCALE: 1/8″=1′-0″

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE – 1ST FLOOR REFLECTED CEILING PLAN

DATE: DECEMBER 2013 SCALE: 1/8″ =1′-0″

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L22
SHEET NO. 66 OF 443

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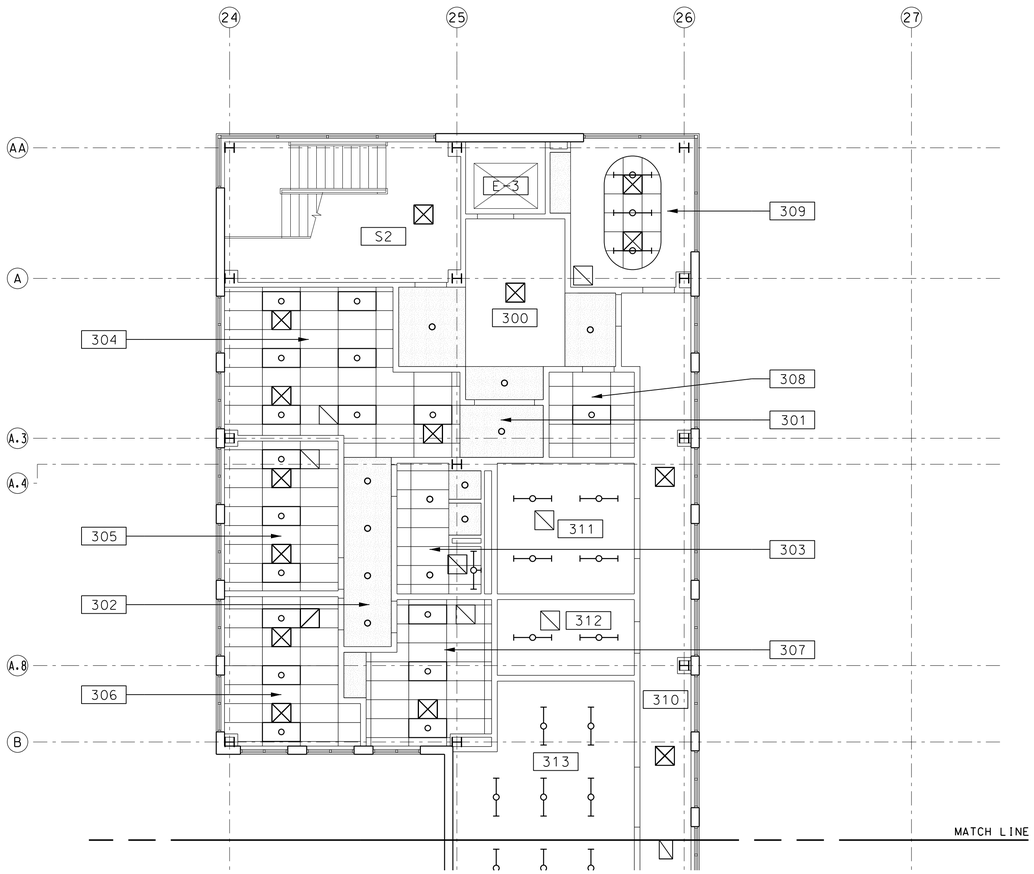
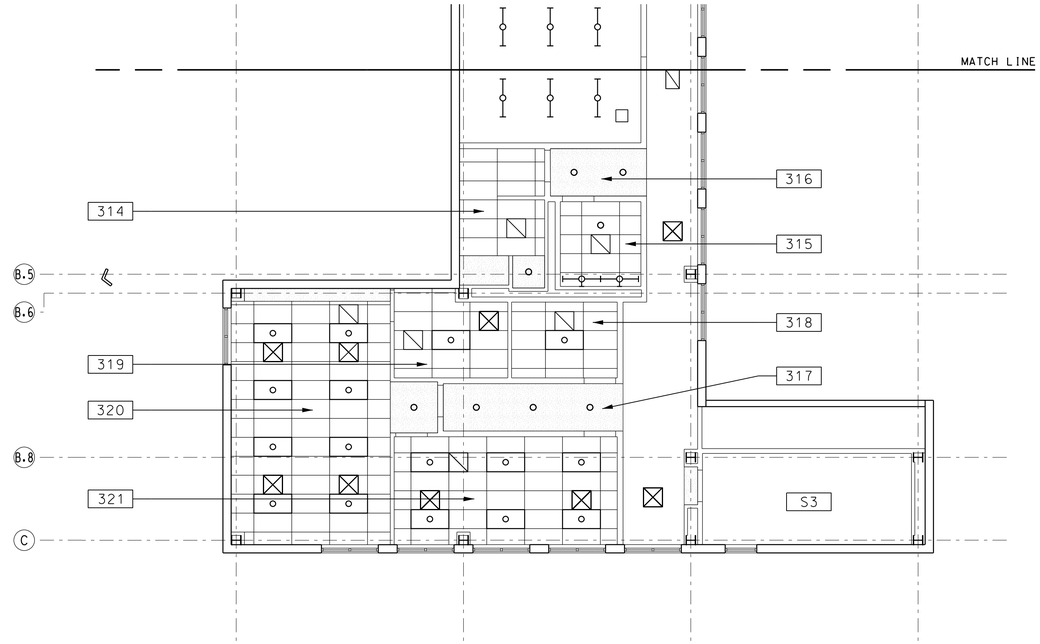
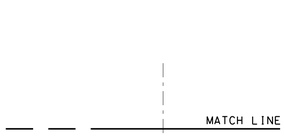
11/13/2013







8′ 0 8′ 16′
SCALE: 1/8"=1′-0"

LEGEND

LIGHT FIXTURES SEE ELECTRICAL
MECHANICAL DIFFUSER/GRILLE
GYPSUM BOARD
APC
OPEN TO STRUCTURE

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
OFFICE 2ND FLOOR REFLECTED CEILING PLAN
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L23
SHEET NO. 67 OF 443

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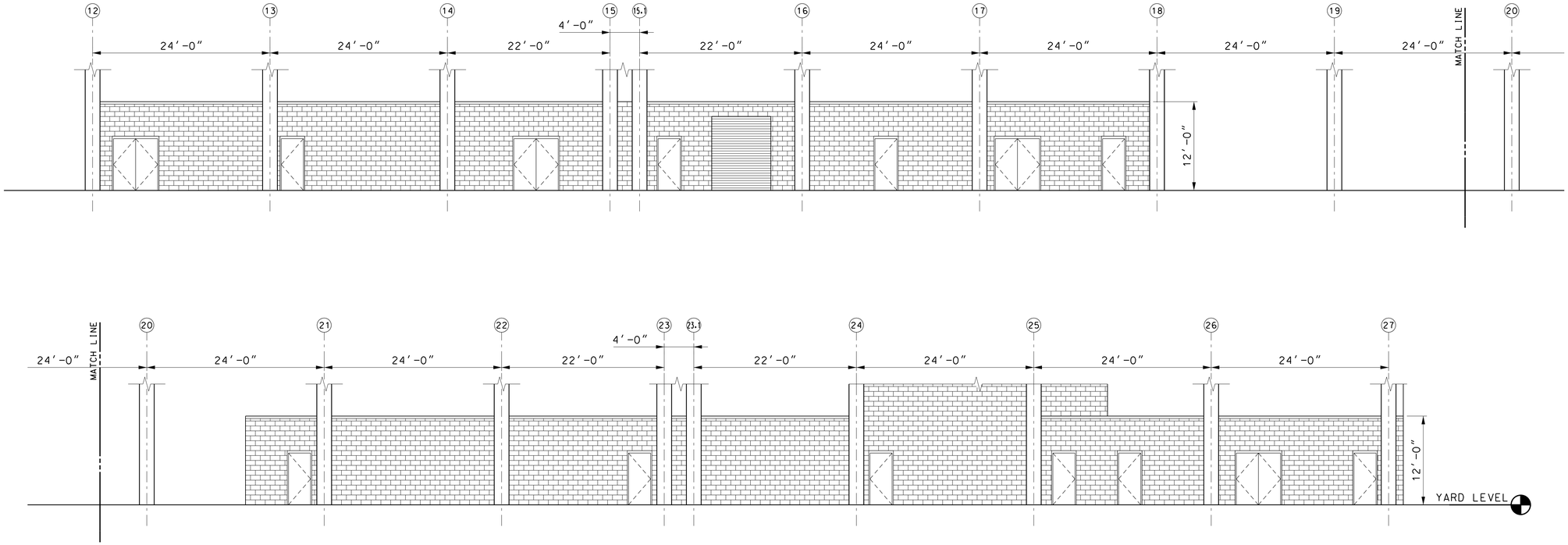
11/13/2013



A / AR-L30 **YARD LEVEL ELEVATION**
SCALE: 1/8" = 1'-0"
REF: AR-L10

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

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
YARD LEVEL – ELEVATIONS
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L30
SHEET NO. 68 OF 443

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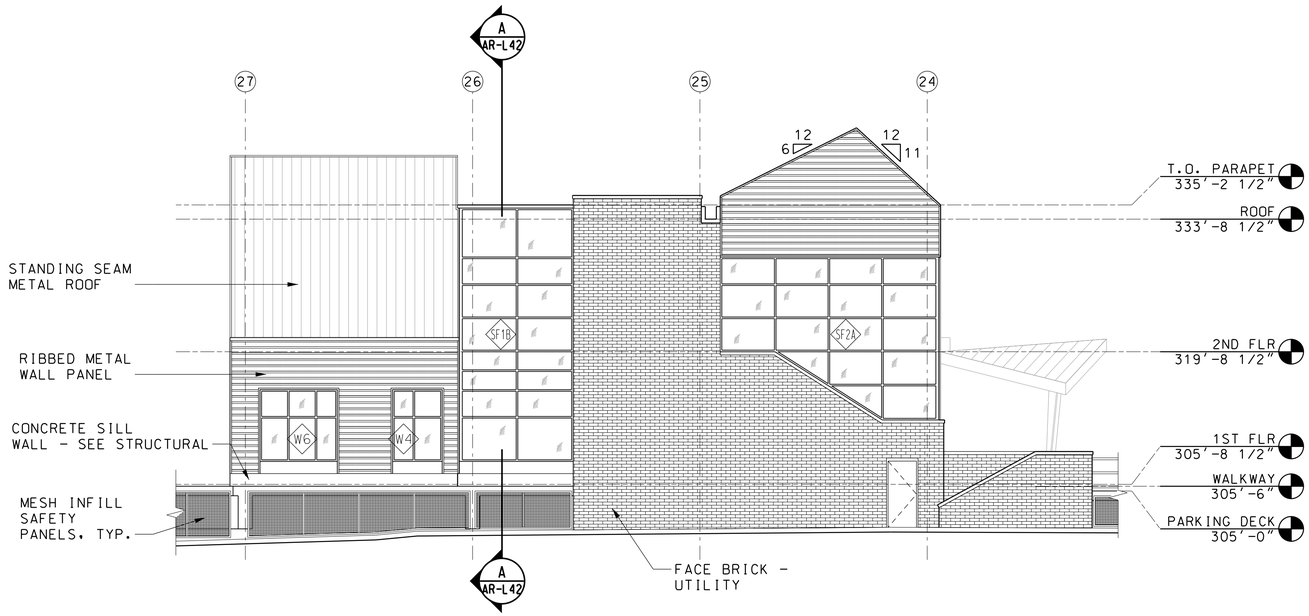
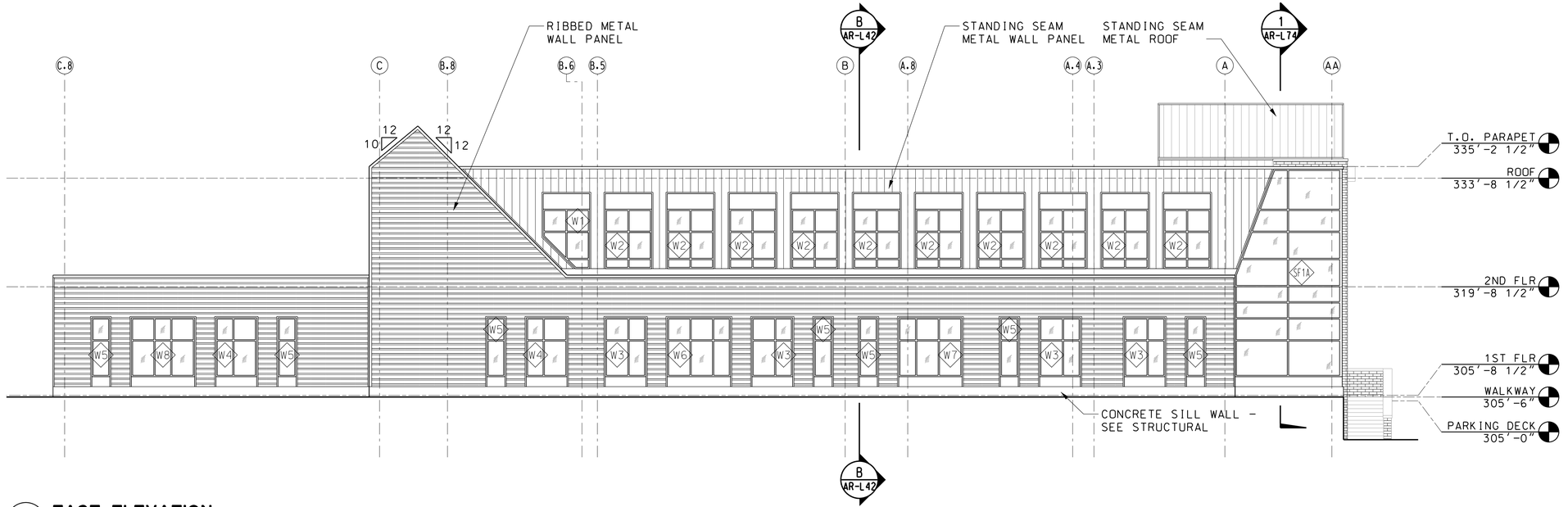
11/13/2013



A AR-L31 **NORTH ELEVATION**

SCALE: 1/8" = 1'-0"

REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15



B AR-L31 **EAST ELEVATION**

SCALE: 1/8" = 1'-0"

REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE – BUILDING ELEVATIONS

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L31

SHEET NO. 69 OF 443

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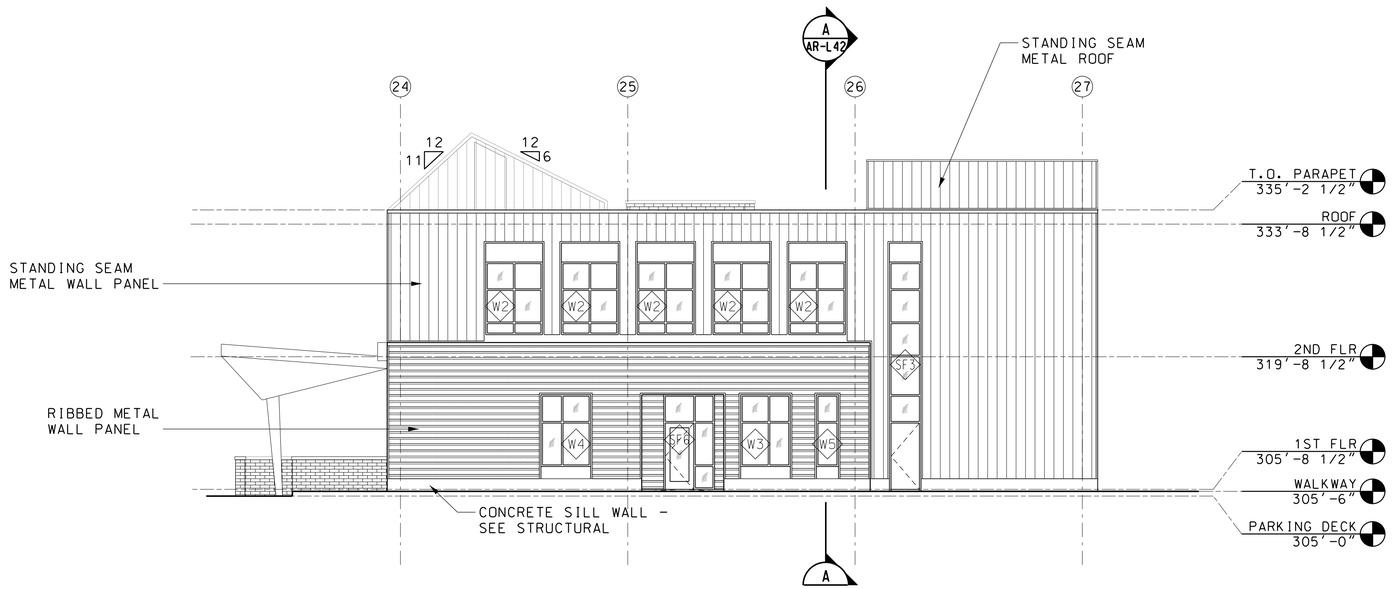
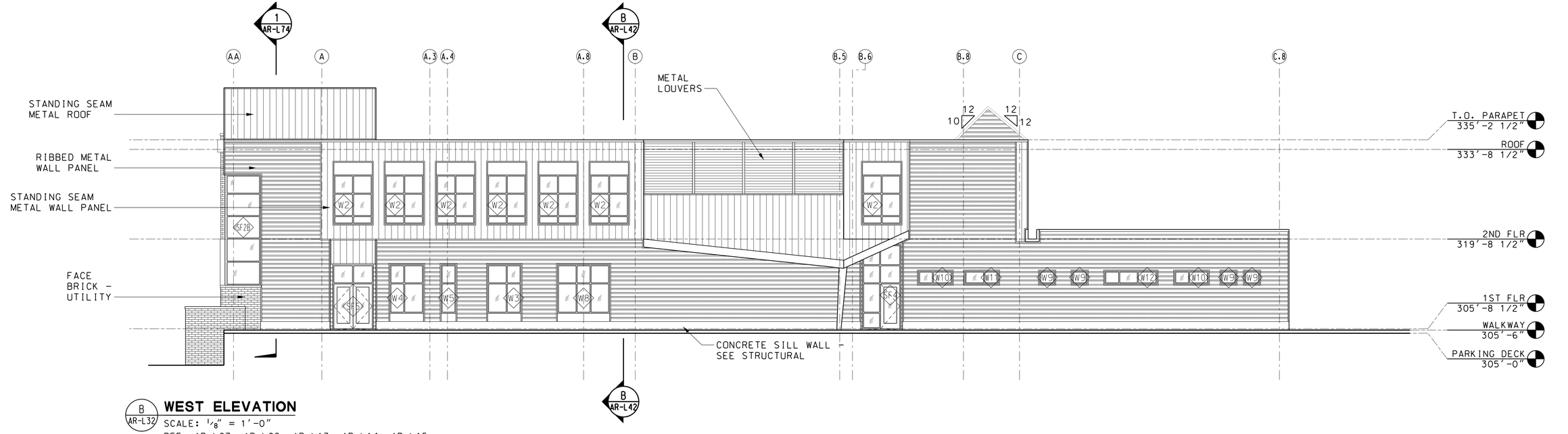


A AR-L32 **SOUTH ELEVATION**

SCALE: 1/8" = 1'-0"

REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15



B AR-L32 **WEST ELEVATION**

SCALE: 1/8" = 1'-0"

REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE – BUILDING ELEVATIONS

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. AR-L32

SHEET NO. 70 OF 443

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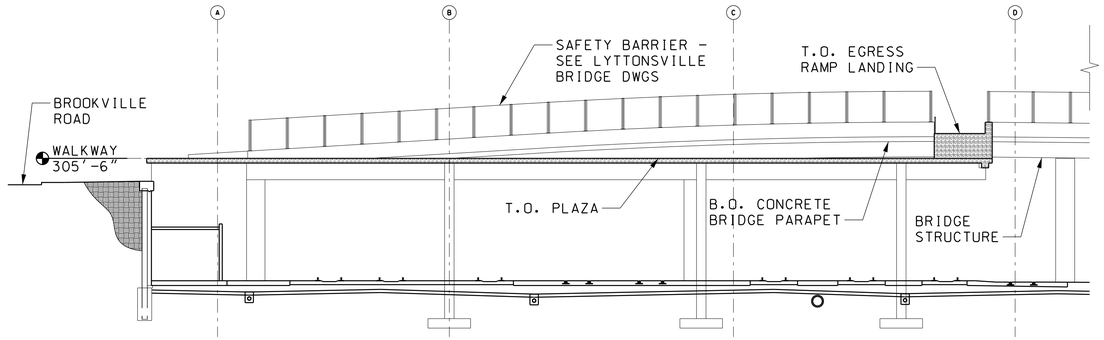
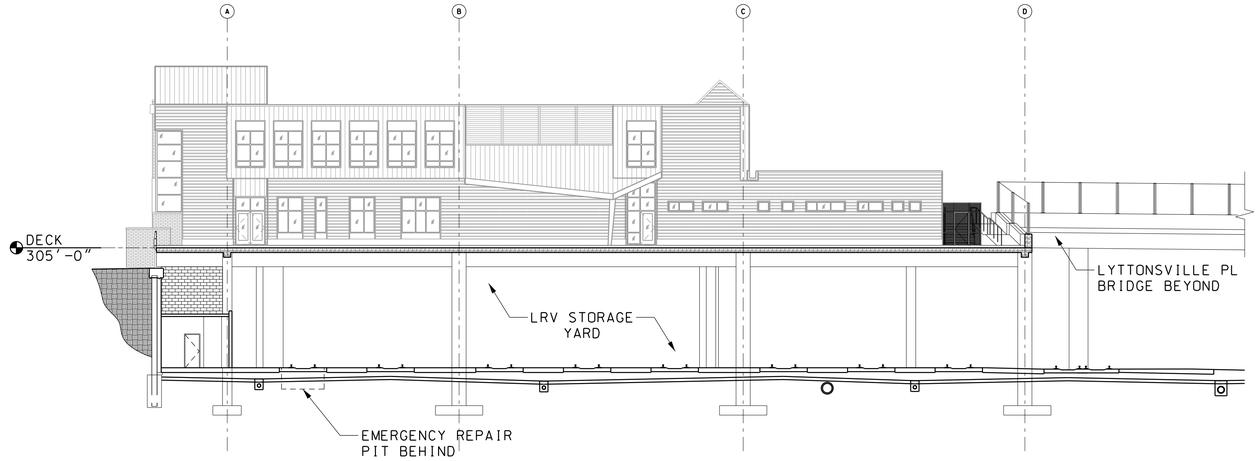


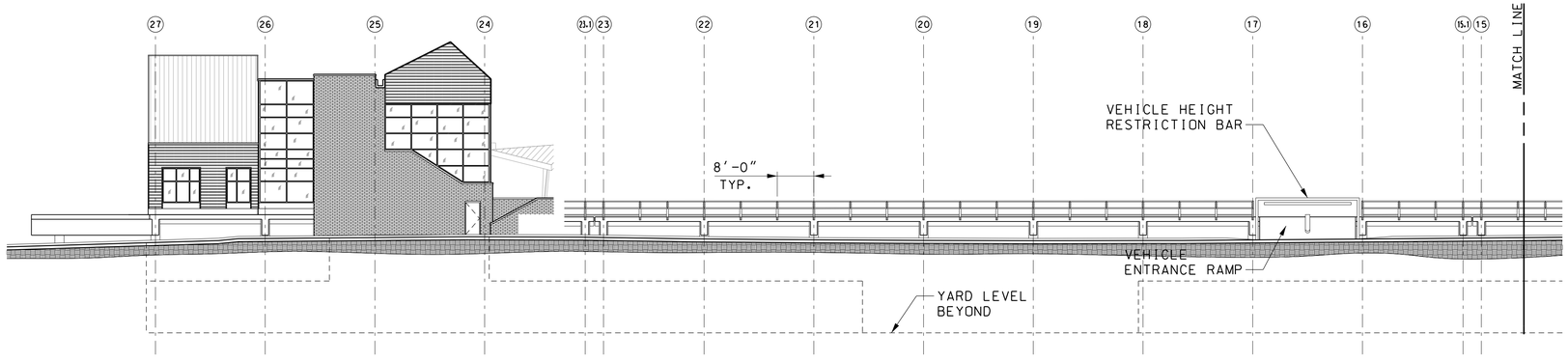
A AR-L40 OVERALL SECTION THROUGH PLAZA

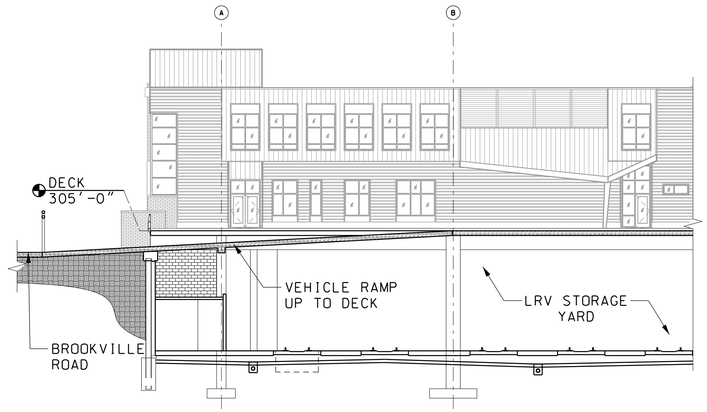
SCALE: 1/16" = 1'-0"
REF: AR-L05, AR-L06



B AR-L40 OVERALL SECTION THROUGH PARKING DECK & YARD

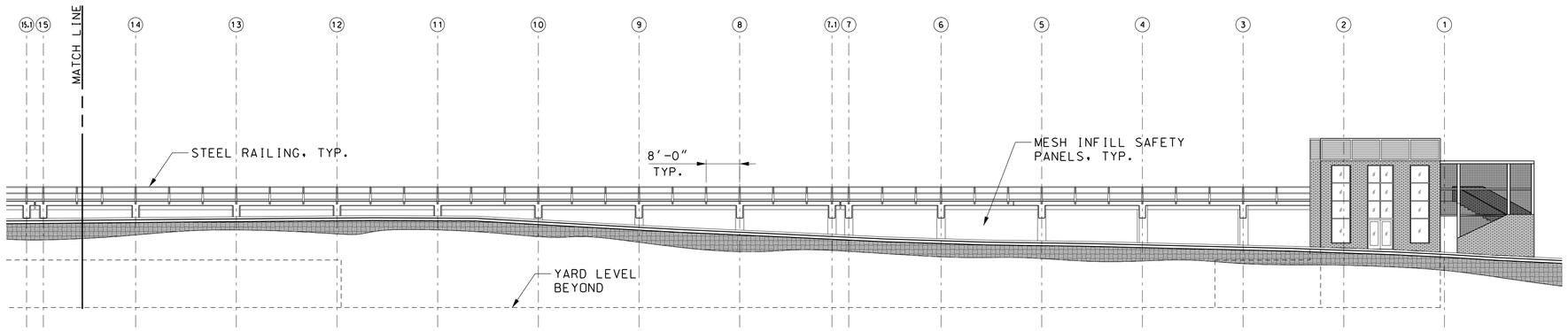
SCALE: 1/16" = 1'-0"
REF: AR-L05, AR-L06





D AR-L40 SECTION THROUGH VEHICLE RAMP

SCALE: 1/16" = 1'-0"
REF: AR-L05, AR-L06



C AR-L40 OVERALL SECTION THROUGH BROOKVILLE ROAD

SCALE: 1/16" = 1'-0"
REF: AR-L06

16' 0 16' 32'
SCALE: 1/16"=1'-0"

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OVERALL SECTIONS

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L40
SHEET NO. 71 OF 443

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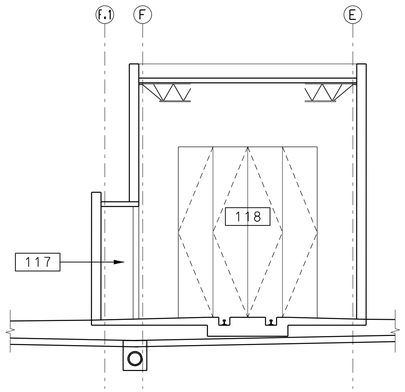
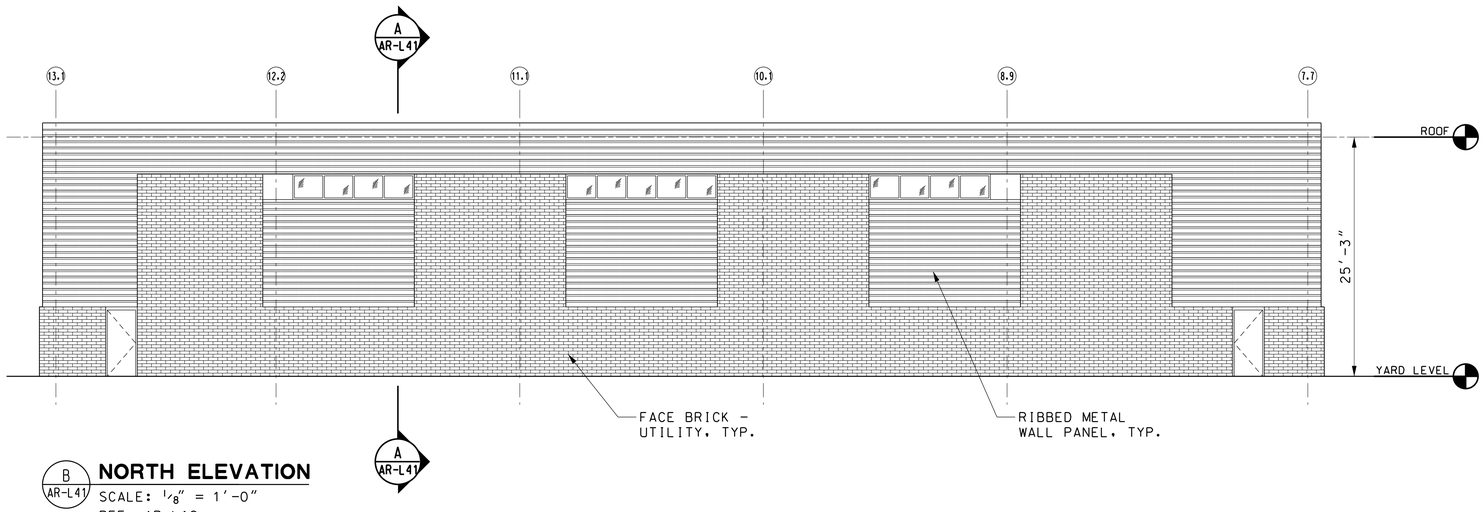
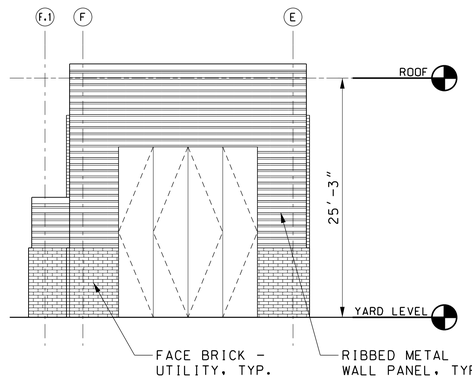


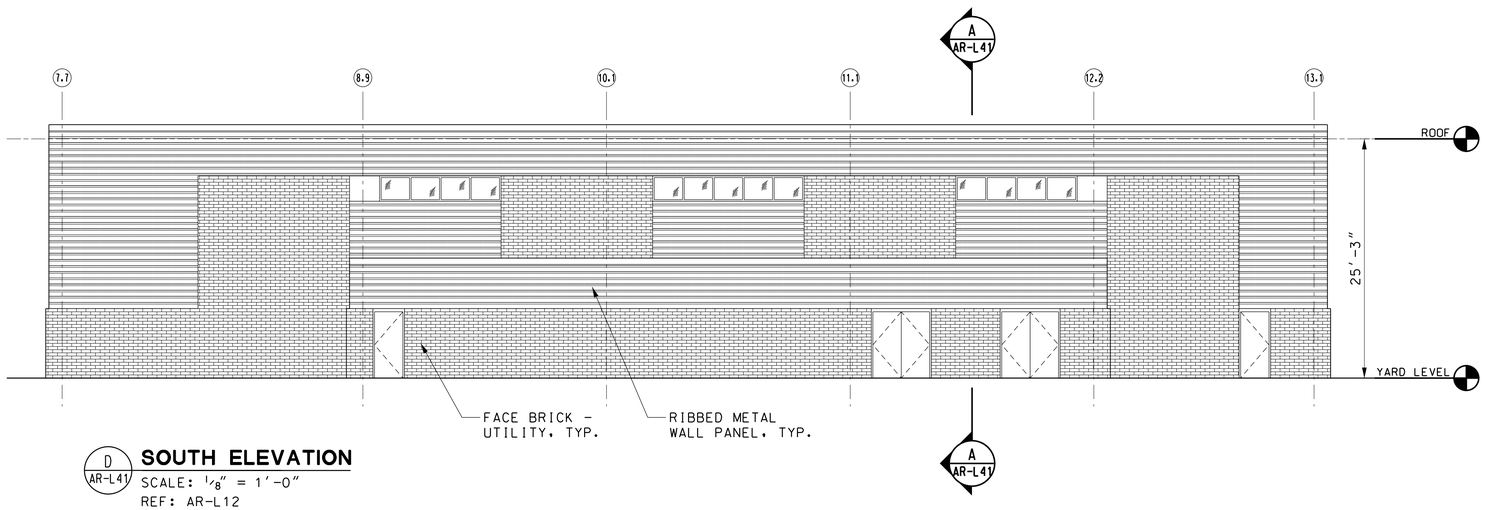
A AR-L41 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"
REF: AR-L12



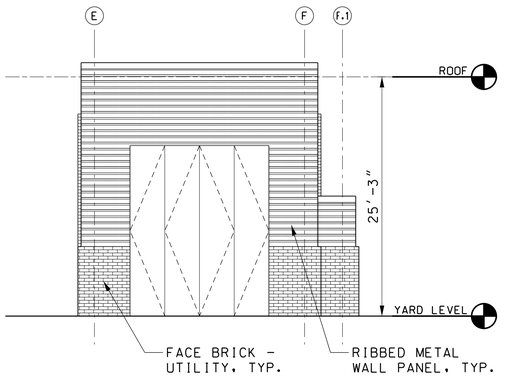
B AR-L41 **NORTH ELEVATION**
SCALE: 1/8" = 1'-0"
REF: AR-L12



C AR-L41 **EAST ELEVATION**
SCALE: 1/8" = 1'-0"
REF: AR-L12



D AR-L41 **SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"
REF: AR-L12



E AR-L41 **WEST ELEVATION**
SCALE: 1/8" = 1'-0"
REF: AR-L12

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

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DESIGN RJH
DRAWN RJH
CHECK DAK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
WASH BUILDING – ELEVATIONS AND SECTIONS
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L41
SHEET NO. 72 OF 443

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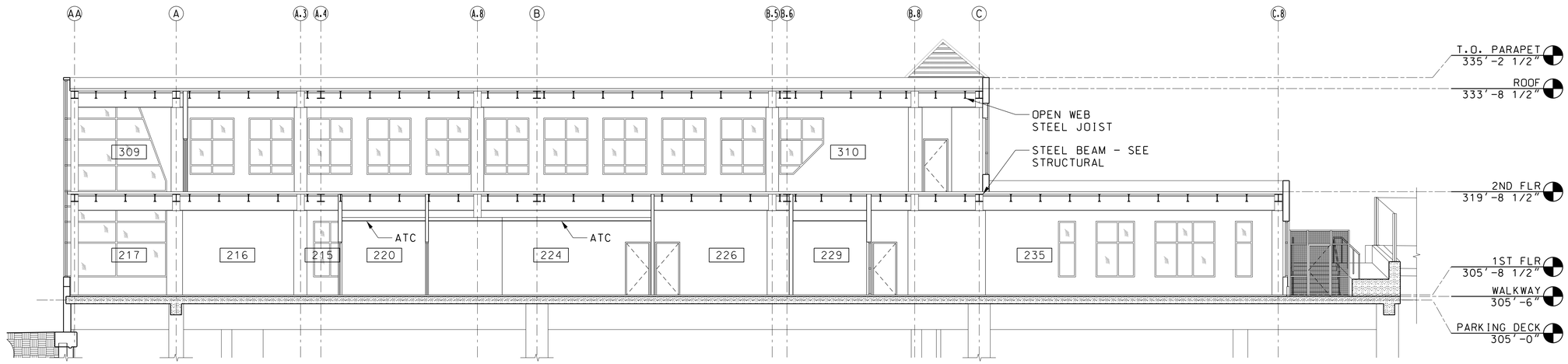
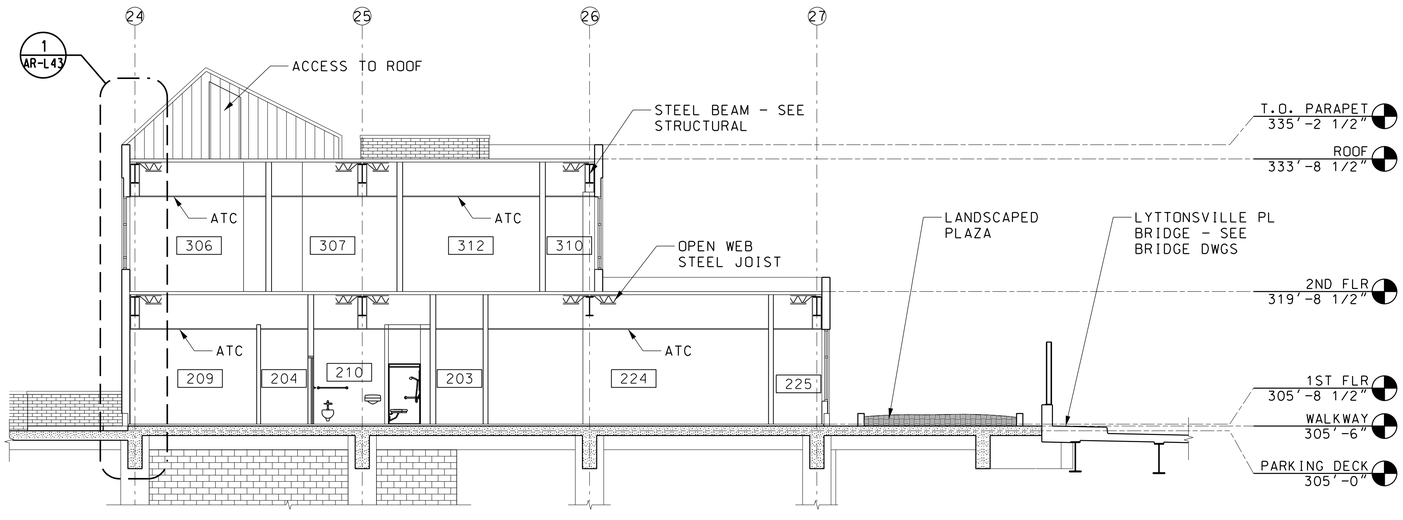


A / AR-L42 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"
REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15, AR-L31, AR-L32



B / AR-L42 **BUILDING SECTION**
SCALE: 1/8" = 1'-0"
REF: AR-L07, AR-L08, AR-L13, AR-L14, AR-L15, AR-L31, AR-L32

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

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE – BUILDING SECTIONS
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L42
SHEET NO. 73 OF 443

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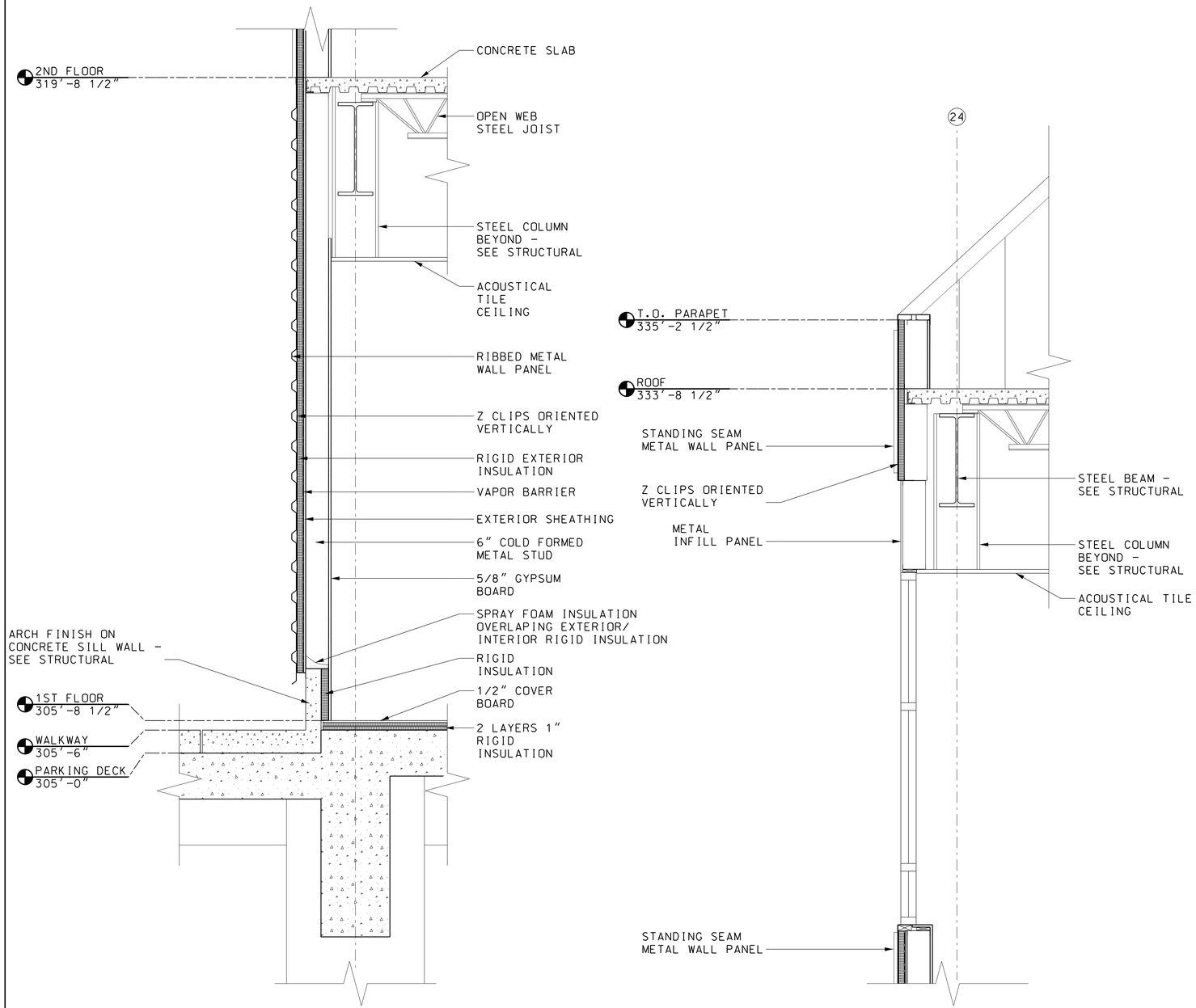
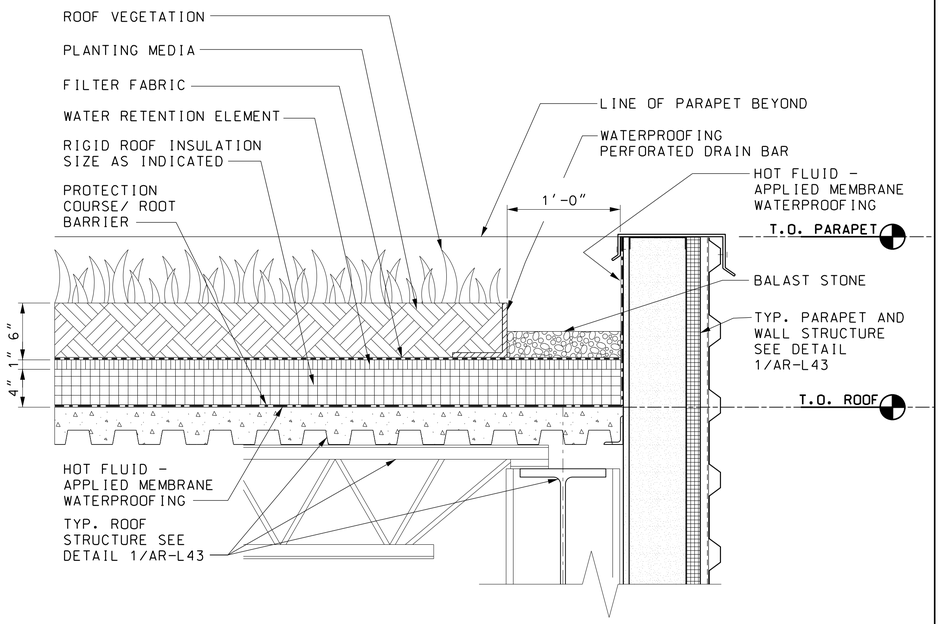
11/13/2013



1 AR-L43 **WALL SECTION**
SCALE: 3/4"=1'-0"
REF: AR-L41



2 AR-L43 **TYP. VEGETATED ROOF**
SCALE: 1 1/2"=1'-0"
REF: AR-L15, AR-L41

1' 0 1' 2'
SCALE: 1 1/2"=1'-0"

2' 0 2' 4'
SCALE: 3/4"=1'-0"

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
OFFICE WALL SECTIONS
DATE: DECEMBER 2013 SCALE: 3/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L43
SHEET NO. 74 OF 443

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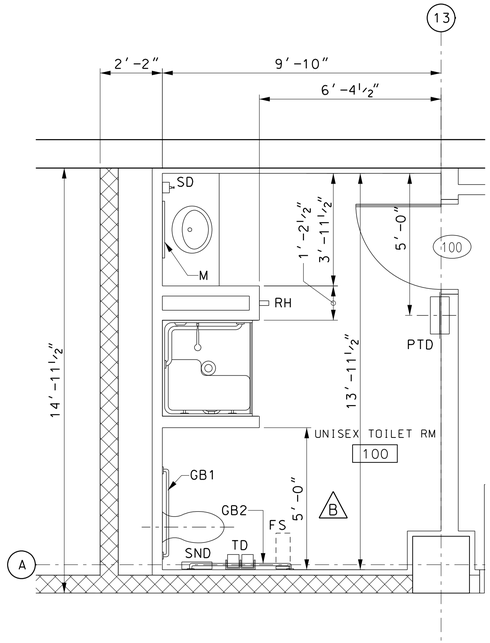
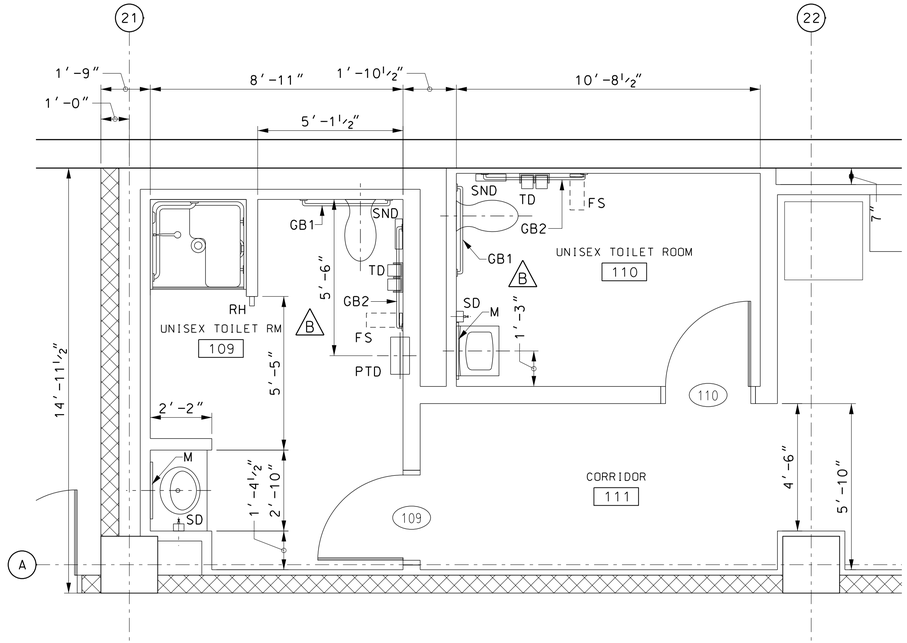
11/13/2013

GENERAL NOTES

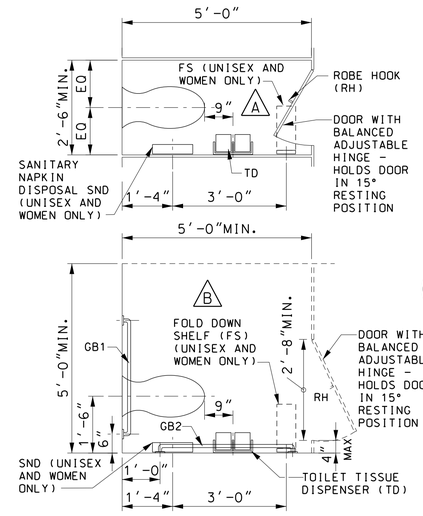
1. FOR TOILET COMPARTMENTS MOUNTING HEIGHT SEE SHEET AR-L51
2. FOR VANITY TYPICAL DETAILS SEE SHEET AR-L52



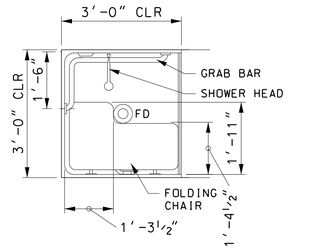
1 AR-L50 **TOILET ROOM 100**
SCALE: ⅜" = 1'-0"
REF: AR-L10



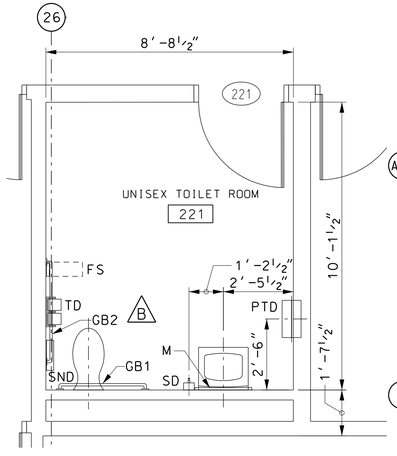
2 AR-L50 **TOILET ROOMS 109 & 110**
SCALE: ⅜" = 1'-0"
REF: AR-L10



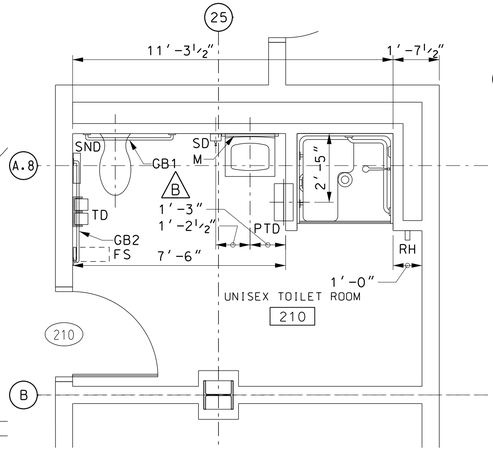
6 AR-L50 **TYP. TOILET STALLS**
SCALE: ½" = 1'-0"
REF: AR-L50, AR-L51



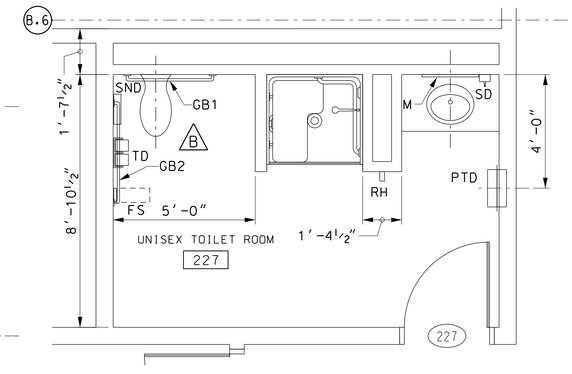
7 AR-L50 **TYP. ADA SHOWER STALL**
SCALE: ½" = 1'-0"
REF: AR-L50, AR-L51



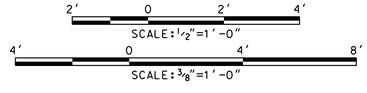
3 AR-L50 **TOILET ROOM 221**
SCALE: ⅜" = 1'-0"
REF: AR-L13



4 AR-L50 **TOILET ROOM 210**
SCALE: ⅜" = 1'-0"
REF: AR-L13



5 AR-L50 **TOILET ROOM 227**
SCALE: ⅜" = 1'-0"
REF: AR-L13



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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

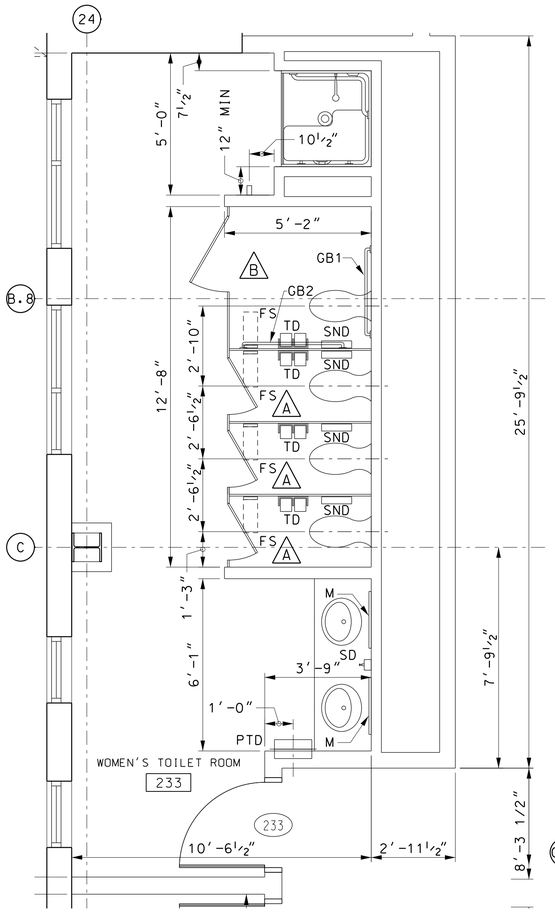
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ENLARGED TOILET ROOM PLANS
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L50
SHEET NO. 75 OF 443

c:\pwworking\mtapw\wra-ryan.hausmann\dms96809\1042pARLA50.dgn
11/13/2013

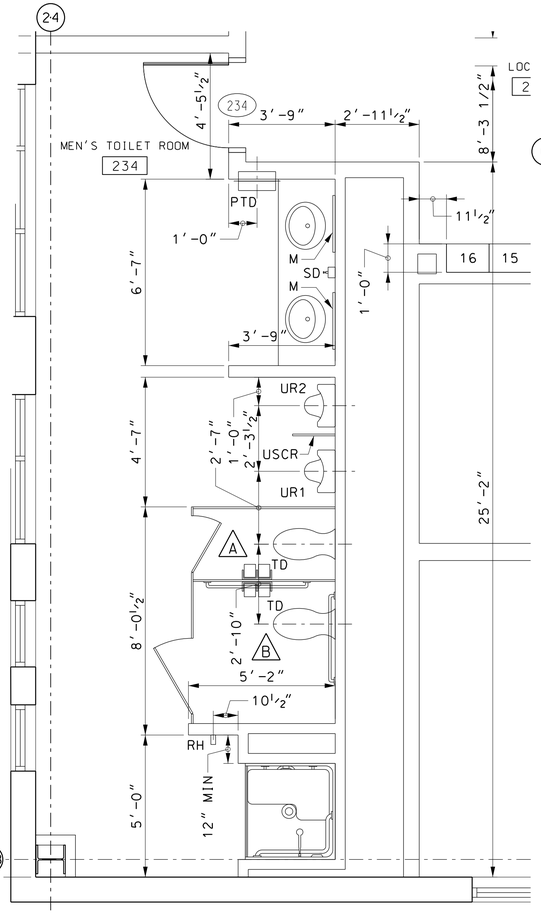
GENERAL NOTES

1. FOR TOILET STALL DETAILS SEE SHEET AR-L50
2. FOR ADA SHOWER STALL MODULAR SEE SHEET AR-L50
3. FOR TYPICAL VANITY DETAILS SEE SHEET AR-L52



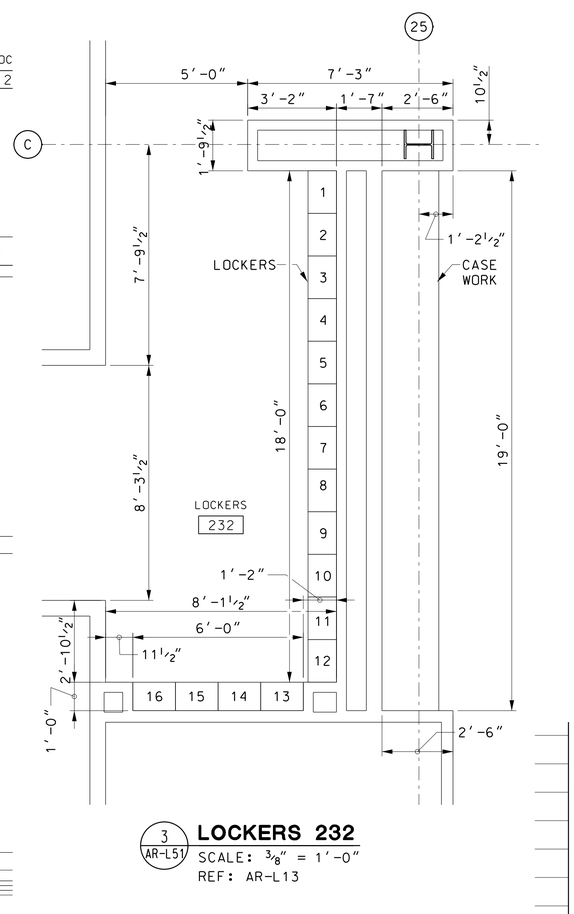
1 AR-L51 TOILET ROOM 233

SCALE: 3/8" = 1'-0"
REF: AR-L13



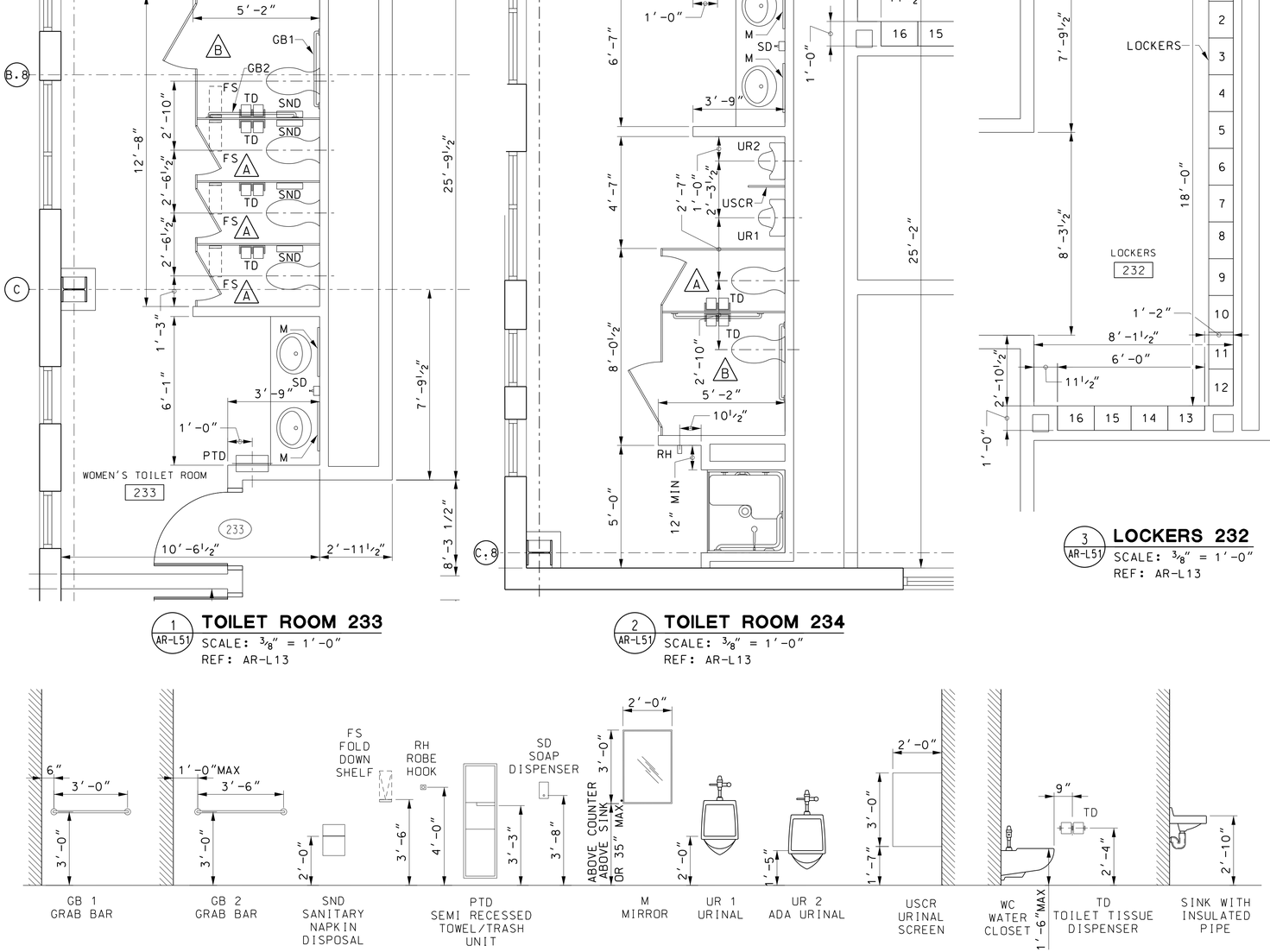
2 AR-L51 TOILET ROOM 234

SCALE: 3/8" = 1'-0"
REF: AR-L13



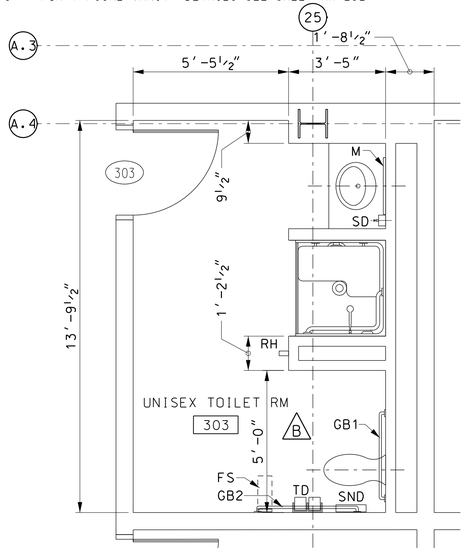
3 AR-L51 LOCKERS 232

SCALE: 3/8" = 1'-0"
REF: AR-L13



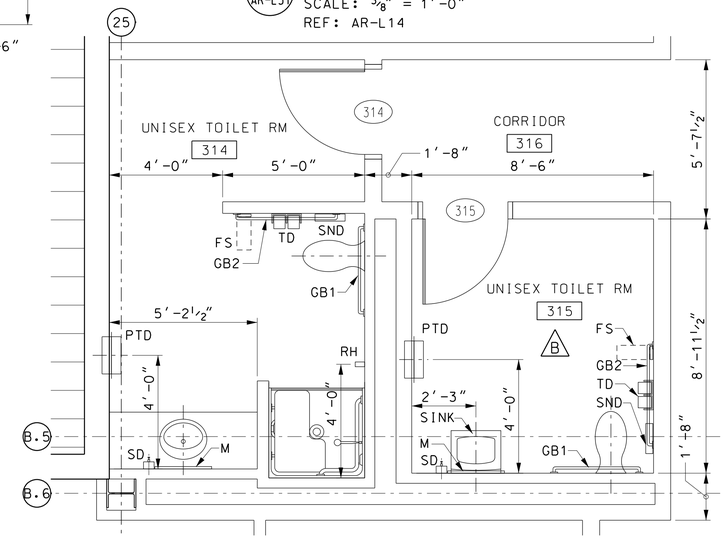
TYP. TOILET COMPARTMENT'S MOUNTING HEIGHT

SCALE: N.T.S.



4 AR-L51 TOILET ROOM 303

SCALE: 3/8" = 1'-0"
REF: AR-L14



5 AR-L51 TOILET ROOM 314 & 315

SCALE: 3/8" = 1'-0"
REF: AR-L14

SCALE: 3/8"=1'-0"

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ENLARGED TOILET ROOM PLANS

DATE: DECEMBER 2013 SCALE: 3/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L51
SHEET NO. 76 OF 443

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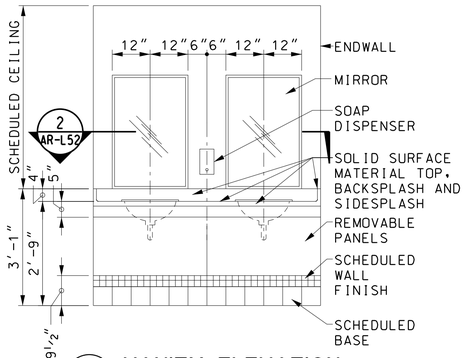
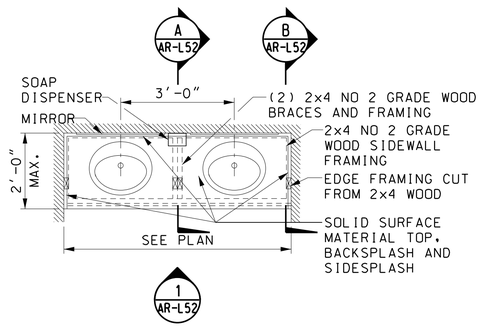
11/13/2013

GENERAL NOTES

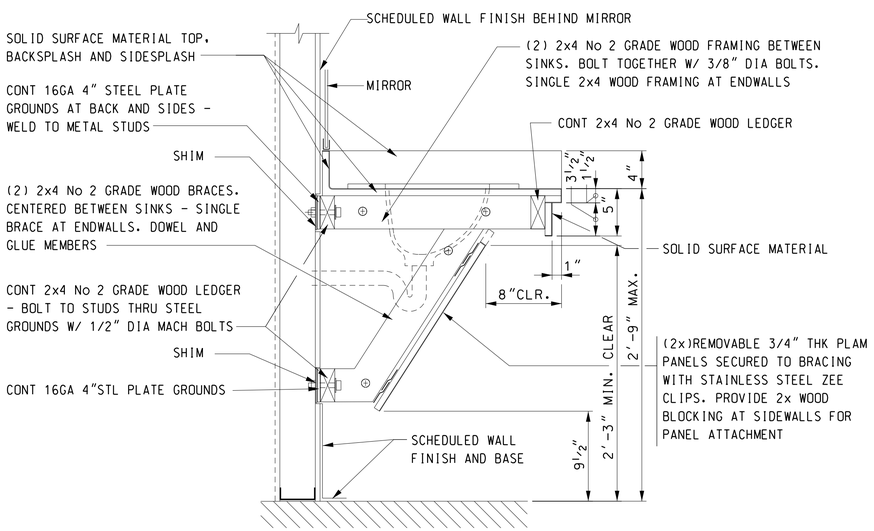
1. FOR TOILET COMPARTMENTS MOUNTING HEIGHT SEE SHEET AR-L51
2. FOR TOILET TYPICAL STALL SEE SHEET AR-L50



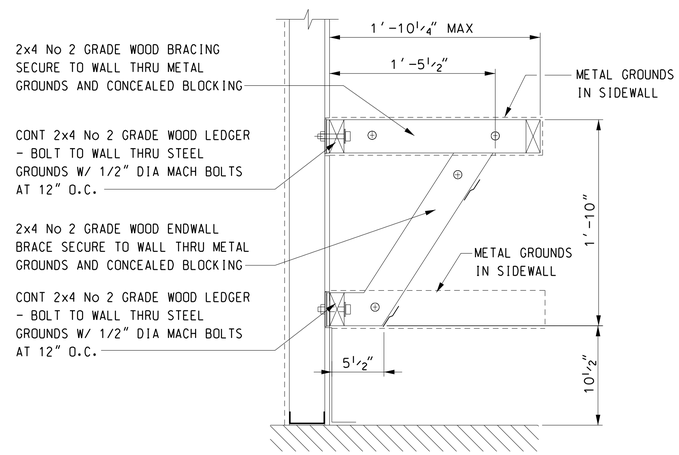
1 AR-L52 **VANITY ELEVATION**
SCALE: 1/2" = 1'-0"
REF: AR-L52



2 AR-L52 **VANITY PLAN**
SCALE: 1/2" = 1'-0"
REF: AR-L52



A AR-L52 **SECTION THROUGH COUNTERTOP**
SCALE: 1 1/2" = 1'-0"
REF: AR-L52



B AR-L52 **END BRACE AT SIDEWALLS**
SCALE: 1 1/2" = 1'-0"
REF: AR-L52

2' 0 2' 4'
SCALE: 1/2"=1'-0"

1' 0 1' 2'
SCALE: 1 1/2"=1'-0"

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
VANITY AND MISCELLANEOUS DETAILS
DATE: DECEMBER 2013 SCALE: AS NOTED

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L52
SHEET NO. 77 OF 443

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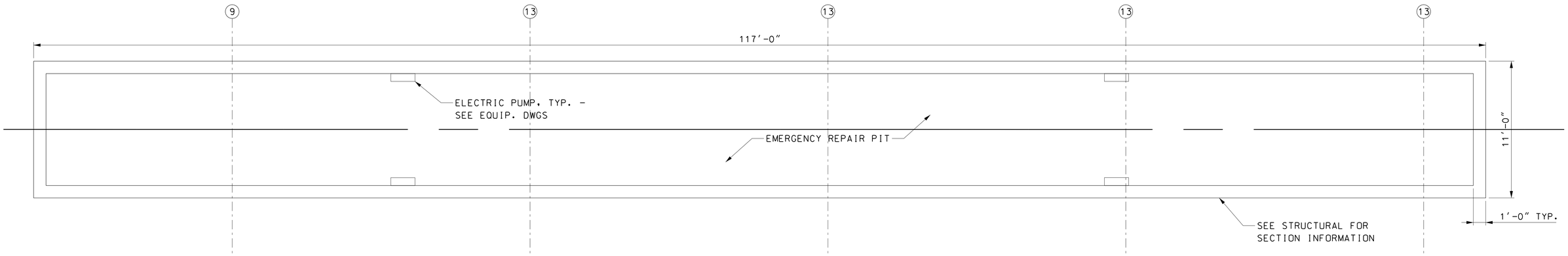
11/13/2013



1 / AR-L53 **EMERGENCY REPAIR PIT ENLARGED PLAN**
SCALE: 1/4″=1′-0″
REF: AR-L05

4′ 0 4′ 8′
SCALE: 1/4″=1′-0″

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ENLARGED PLANS

DATE: DECEMBER 2013 SCALE: AS NOTED

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L53
SHEET NO. 78 OF 443

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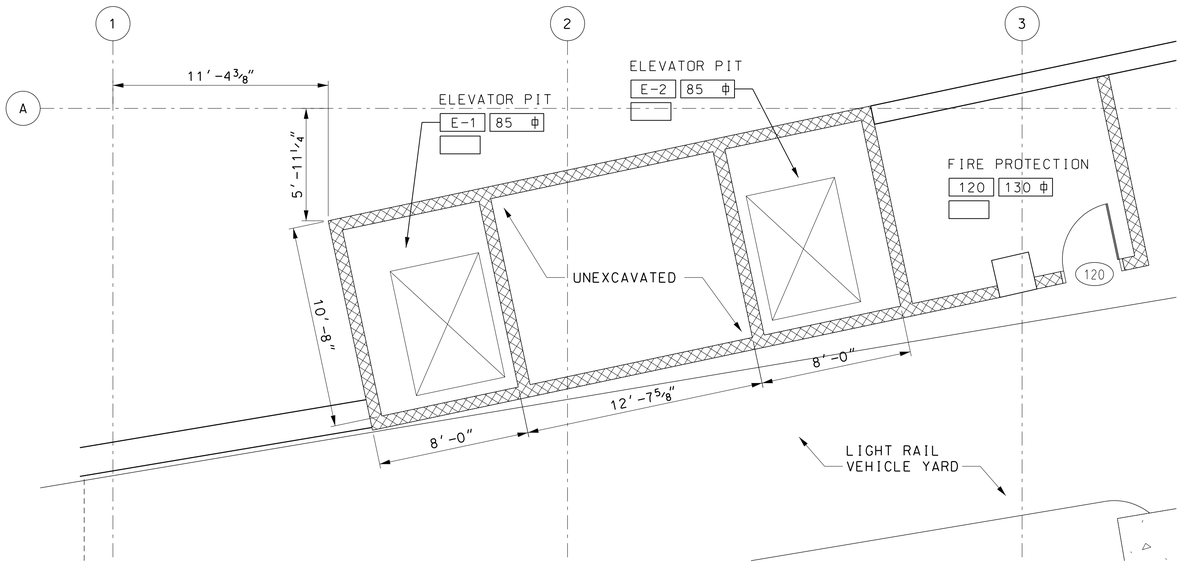
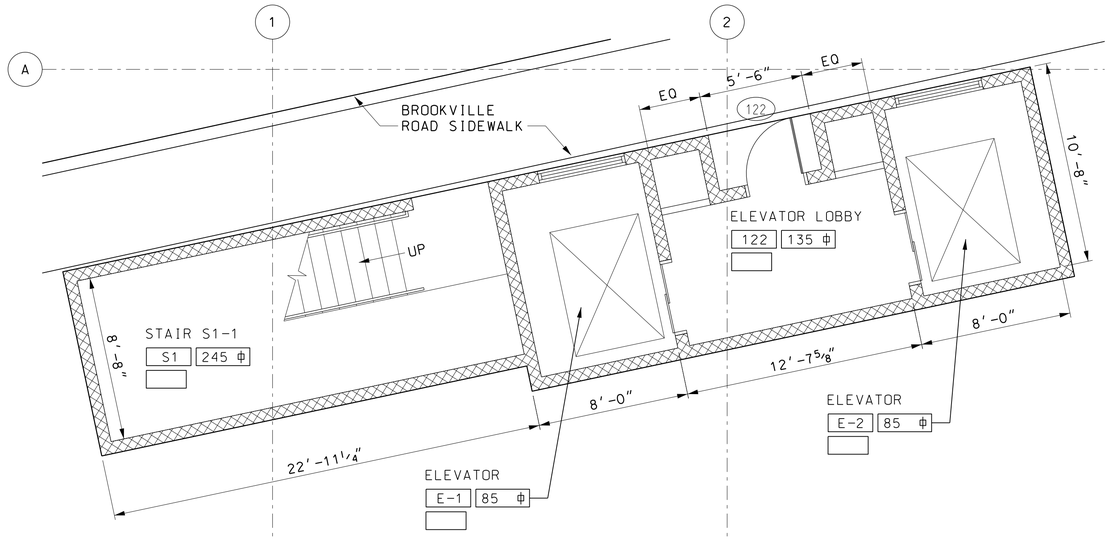
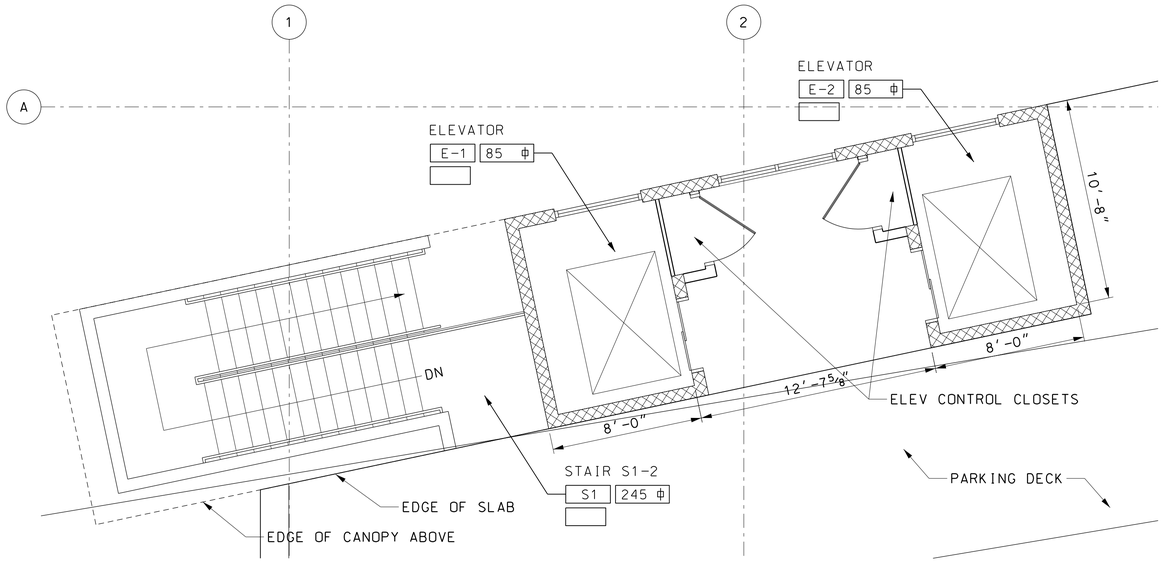
11/13/2013



1 AR-L70 **ENLARGED ELEVATOR E-1/E-2 YARD LEVEL PLAN**
SCALE: 1/4″=1′-0″
REF: AR-L05



2 AR-L70 **ENLARGED STAIR S1-1 AND ELEVATOR E-1/E-2 PLAN AT BROOKVILLE RD**
SCALE: 1/4″=1′-0″
REF:



3 AR-L70 **ENLARGED STAIR S1-2 AND ELEVATOR E-1/E-2 DECK LEVEL PLAN**
SCALE: 1/4″=1′-0″
REF: AR-L06

4′ 0 4′ 8′
SCALE: 1/4″=1′-0″

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DESIGN RJH
DRAWN RJG
CHECK DAK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ENLARGED STAIR\ELEVATOR PLANS S1 E-1 E-2
DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L70
SHEET NO. 79 OF 443

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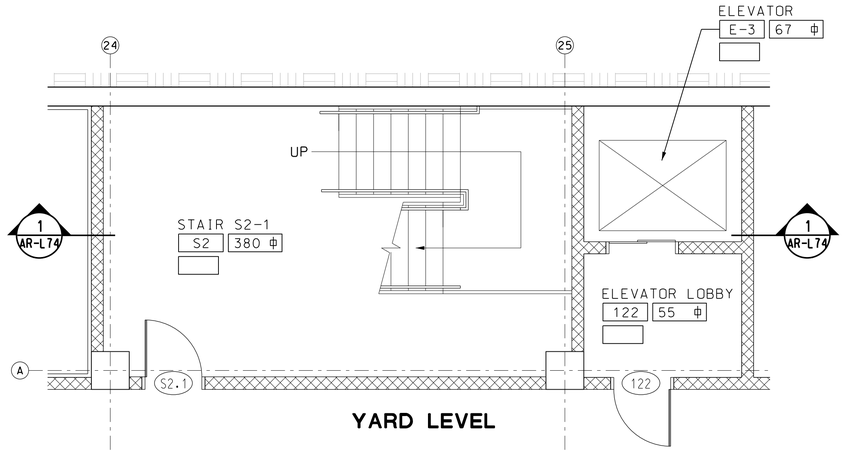
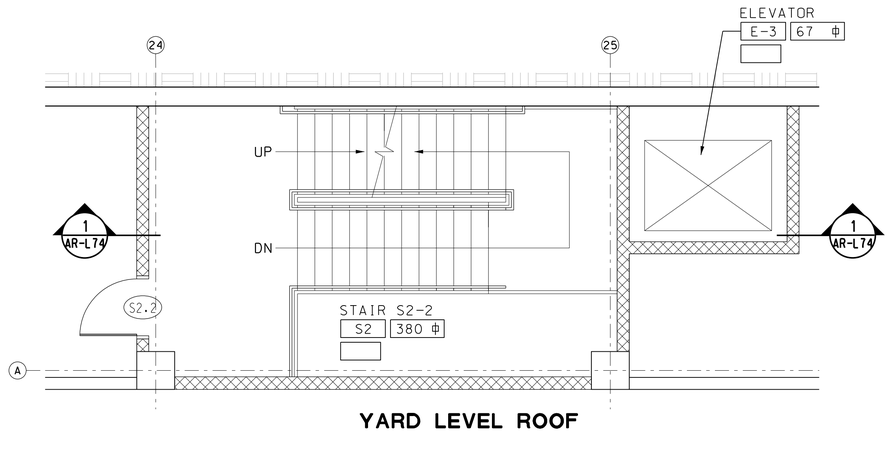
11/13/2013



YARD LEVEL

1 AR-L71 ENLARGED STAIR S2-1 AND ELEVATOR E3 PLAN

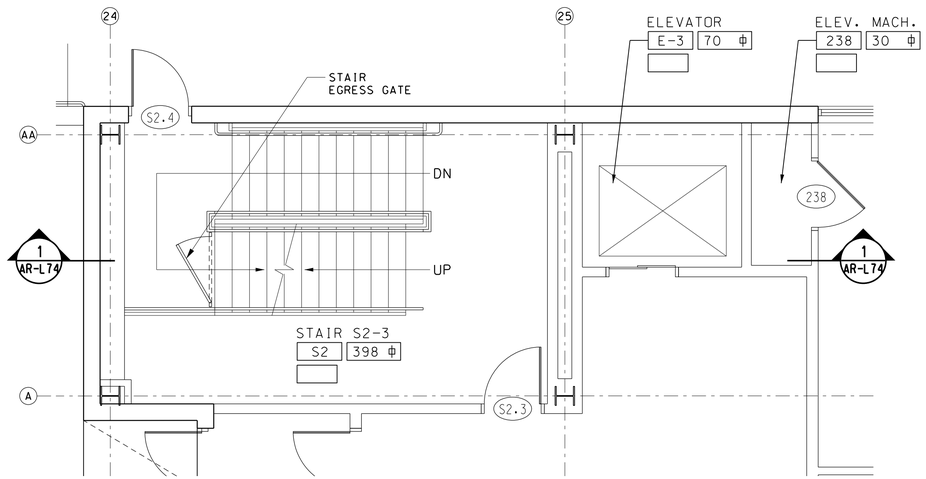
SCALE: 1/4"=1'-0"
REF: AR-L10



YARD LEVEL ROOF

2 AR-L71 ENLARGED STAIR S2-2 AND ELEVATOR E3 PLAN

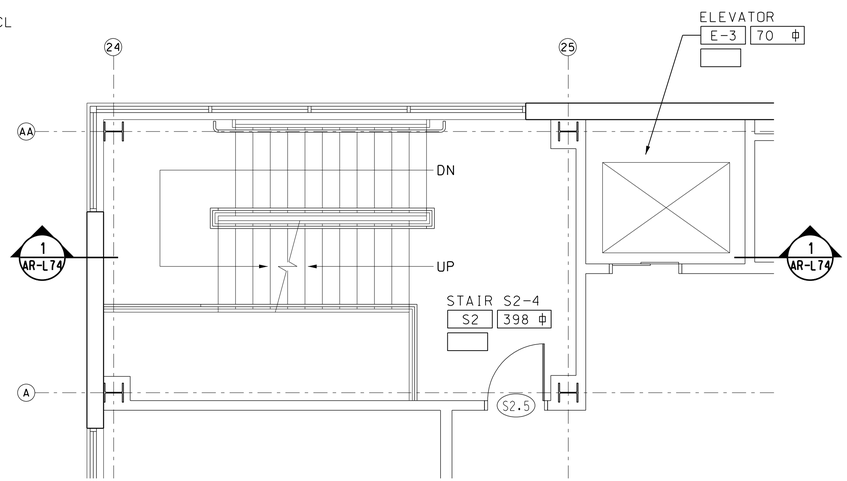
SCALE: 1/4"=1'-0"
REF: AR-L11



OFFICE FIRST FLOOR

3 AR-L71 ENLARGED STAIR S2-3 AND ELEVATOR E3 PLAN

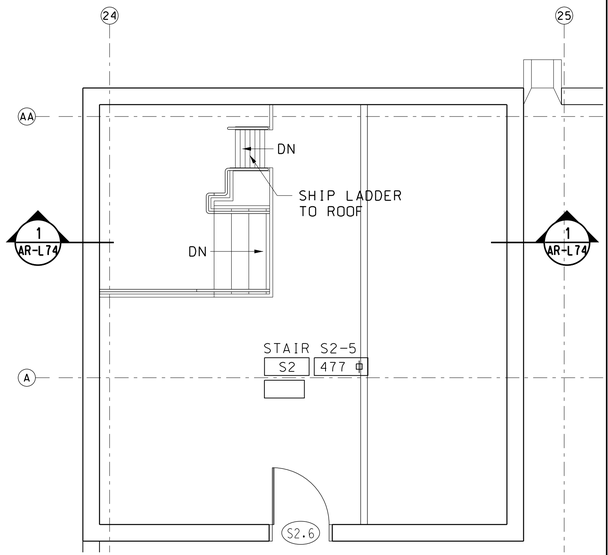
SCALE: 1/4"=1'-0"
REF: AR-L13



OFFICE SECOND FLOOR

4 AR-L71 ENLARGED STAIR S2-4 AND ELEVATOR E3 PLAN

SCALE: 1/4"=1'-0"
REF: AR-L14



OFFICE ROOF

5 AR-L71 ENLARGED STAIR S2-5

SCALE: 1/4"=1'-0"
REF: AR-L15

4' 0 4' 8'
SCALE: 1/4"=1'-0"

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DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ENLARGED STAIR\ELEVATOR PLANS S2 E-3

DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L71
SHEET NO. 80 OF 443

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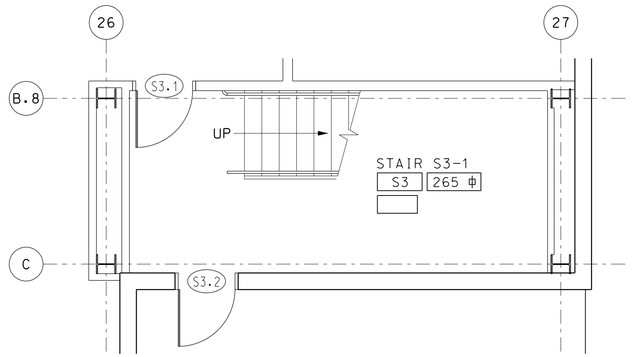
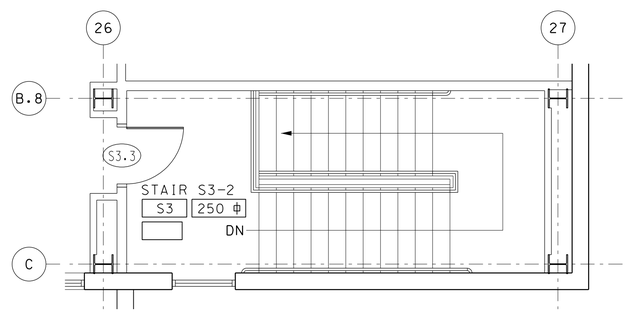
11/13/2013



1 AR-L72 **ENLARGED STAIR S3-1 PLAN**
SCALE: 1/4"=1'-0"
REF: AR-L13



2 AR-L72 **ENLARGED STAIR S3-2 PLAN**
SCALE: 1/4"=1'-0"
REF: AR-L14

4' 0 4' 8'
SCALE: 1/4"=1'-0"

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ENLARGED STAIR PLANS S3

DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L72
SHEET NO. 81 OF 443

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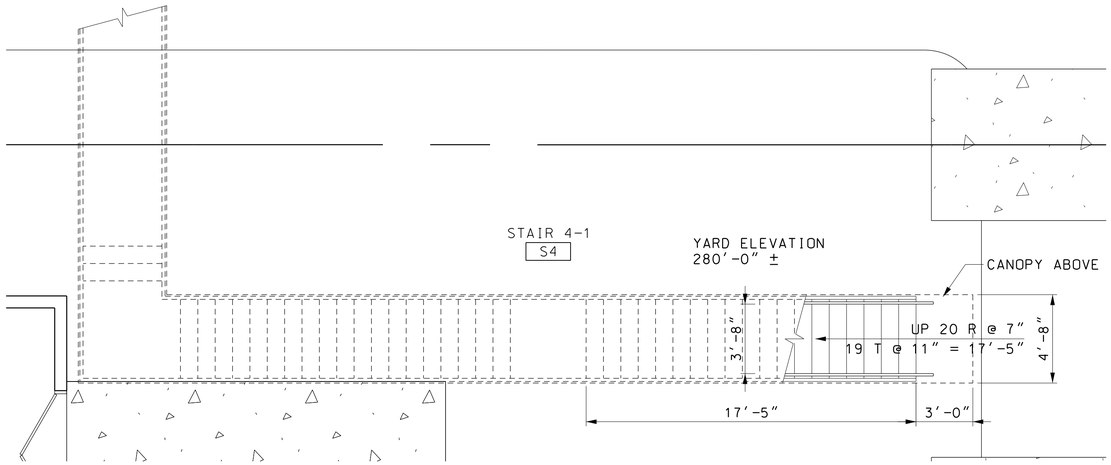
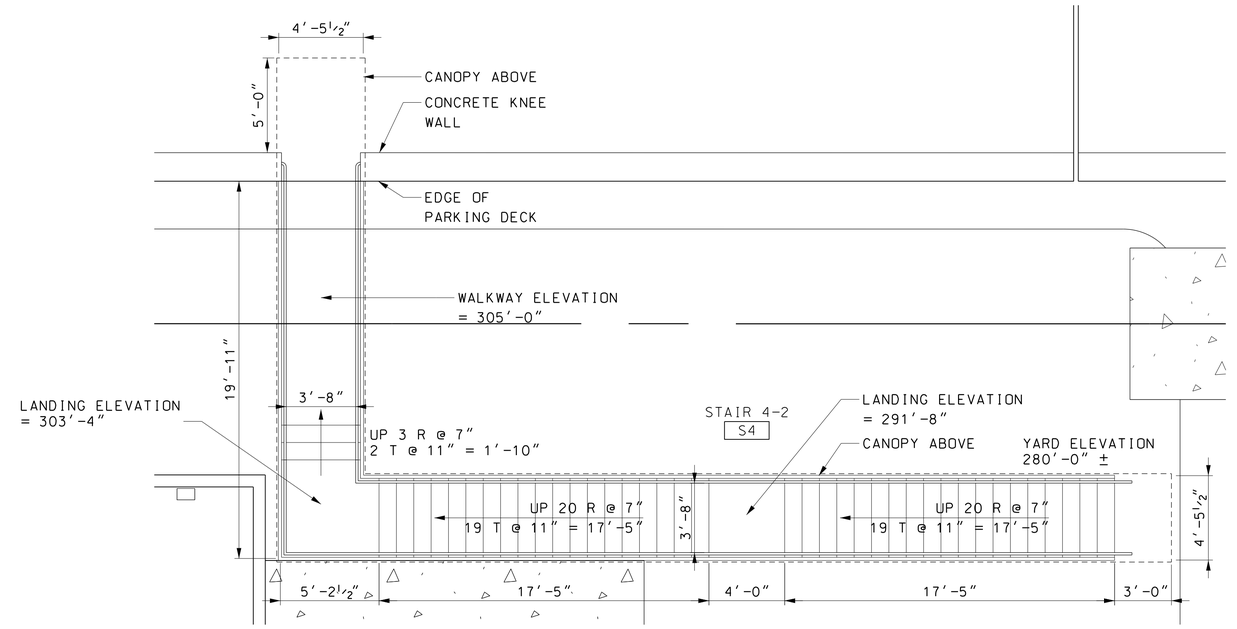
11/13/2013



1 AR-L73 **ENLARGED STAIR S4-1 PLAN**
SCALE: 1/4" = 1'-0"
REF: AR-L12



2 AR-L73 **ENLARGED STAIR S4-2 PLAN**
SCALE: 1/4" = 1'-0"
REF: AR-L12

4' 0 4' 8'
SCALE: 1/4"=1'-0"

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DESGN RJH
DRAWN RJH
CHECK DAK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ENLARGED STAIR PLANS S4
DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L73
SHEET NO. 82 OF 443

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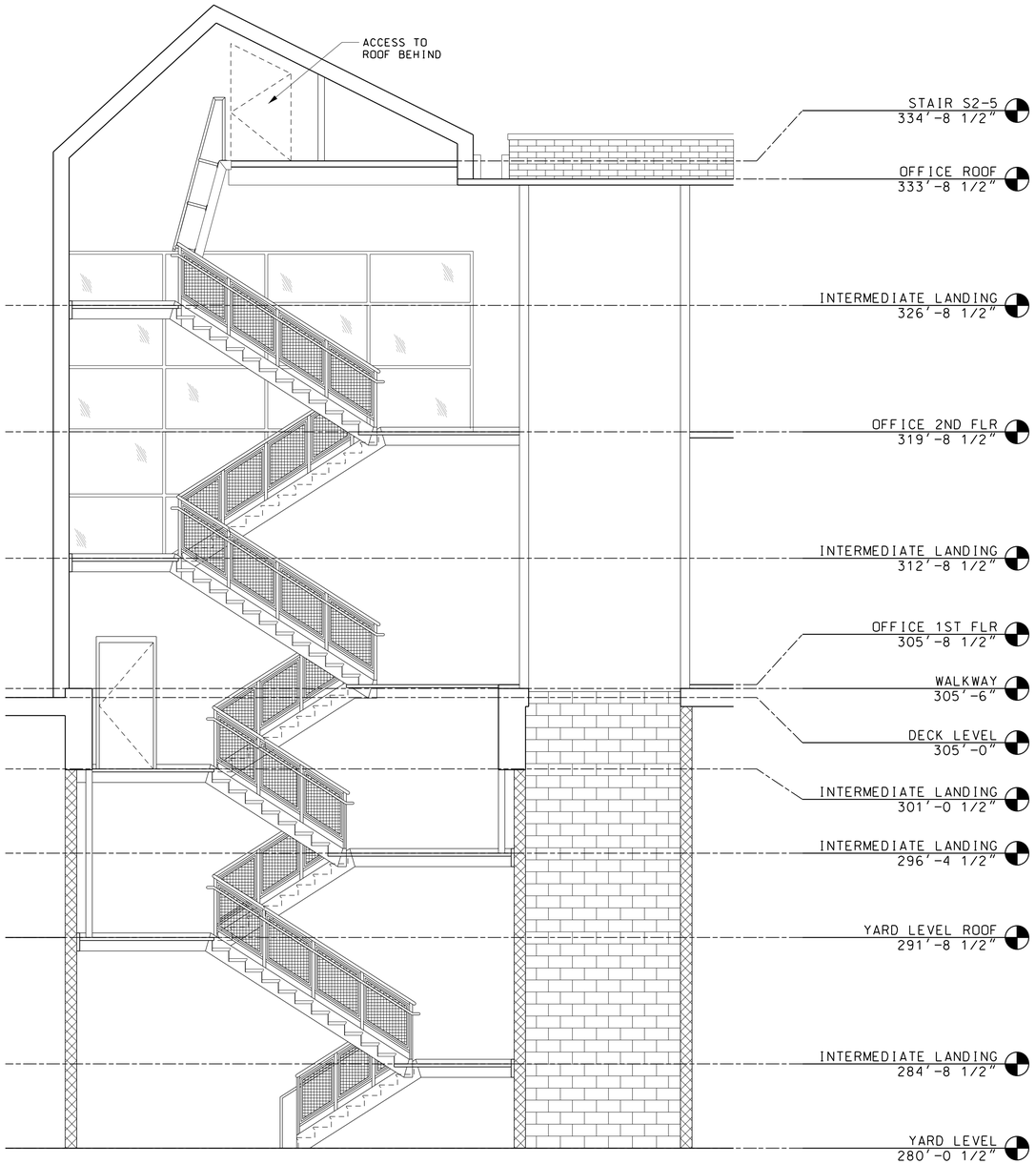
11/13/2013



1 / AR-L74 **SECTION STAIR S2**
SCALE: 1/4" = 1'-0"
REF: AR-L71

4' 0 4' 8'
SCALE: 1/4"=1'-0"

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION MTA Maryland

Gannett Fleming WR&A

PROFESSIONAL CERTIFICATION
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License No. Expiration Date

DRAFT: Information shown is based on 30 percent preliminary engineering plans and may be subject to further revision pending refinements to the plans during the completion of the design phase. Any reliance upon any of these plans is made with full understanding of its draft status.

DESGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
STAIR S2 SECTIONS
DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L74
SHEET NO. 83 OF 443

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11/13/2013

DOOR SCHEDULE

LOCATION	NO.	HDW SET	DOORS WIDTH (NOM)	DOORS LOCATION	DOORS TYPE	DOORS MAT'L	FRAMES TYPE	FRAMES MAT'L	FRAMES HEAD	FRAMES JAMB	FRAMES SILL	FIRE RATING	INS'L	REMARKS	FINISH DOOR	FINISH FRAME
YARD LEVEL	100		3'-0"	UNISEX TOILET ROOM 100	D1	HM	F1	HM								
	101		3'-0"	LIGHT RAIL BREAK ROOM 101	D1	HM	F2	HM								
	102		3'-0"	LIGHT RAIL OFFICE 102	D2	HM	F2	HM								
	103		3'-0"	LIGHT RAIL MAINTENANCE STORAGE 103	D6	HM	F3	HM								
	104.1		3'-0"	CLEANING SUPPLY STORAGE 104	D1	HM	F2	HM								
	104.2		8'-0" X 10'-0"	CLEANING SUPPLY STORAGE 104		ALUM		STL								
	105		3'-0"	ELECTRICAL ROOM 105	D1	HM	F2	HM								
	106		3'-0"	BULK FLUID STORAGE 106	D6	HM	F3	HM								
	107		3'-0"	FIRE PROTECTION 107	D1	HM	F2	HM								
	108		3'-0"	FIRE PROTECTION 108	D1	HM	F2	HM								
	109		3'-0"	UNISEX TOILET ROOM 109	D1	HM	F1	HM								
	110		3'-0"	UNISEX TOILET ROOM 110	D1	HM	F1	HM								
	112		3'-0"	CLEANING BREAK ROOM 112	D1	HM	F2	HM								
	113		3'-0"	CLEANING OFFICE 113	D2	HM	F1	HM								
	114		3'-0"	WATER SERVICE 114	D1	HM	F2	HM								
	115		3'-0"	ELECTRICAL SERVICE 115	D6	HM	F3	HM								
	116		3'-0"	EMERGENCY ELECTRICAL SERVICE 116	D6	HM	F2	HM								
	117.1		3'-0"	WASH BAY 117	D1	HM	F2	HM								
	117.2		3'-0"	WASH BAY 117	D1	HM	F2	HM								
	117.3		3'-0"	WASH BAY 117	D1	HM	F2	HM								
	117.4		3'-0"	WASH BAY 117	D1	HM	F2	HM								
	117.5		24'-0" x 12'-0"	WASH BAY 117		ALUM		STL								
	117.6		24'-0" x 12'-0"	WASH BAY 117		ALUM		STL								
	118		3'-0"	ELECTRICAL 118	D6	HM	F3	HM								
	119		3'-0"	COMMUNICATIONS CLOSET 119	D6	HM	F3	HM								
	120		3'-0"	FIRE PROTECTION 120	D1	HM	F2	HM								
	121		3'-0"	COMPRESSOR ROOM 121	D6	HM	F3	HM								
	S2.1		3'-0"	STAIR 2 AT YARD LEVEL	D1	HM	F2	HM								
	S2.2		3'-0"	STAIR 2 AT YARD LEVEL ROOF	D1	HM	F2	HM								
OFFICE FIRST FLOOR AT DECK LEVEL	S2.3		3'-0"	STAIR 2 AT OFFICE FIRST FLR	D1	HM	F1	HM								
	S2.4		3'-0"	STAIR 2 AT OFFICE FIRST FLR	D1	HM	F2	HM								
	200.1		3'-0" x 7'-2"	VESTIBULE 200	D5	AL		AL								
	200.2		3'-0" x 7'-2"	VESTIBULE 200	D5	HM	F1	HM								
	201		3'-0"	LOBBY 201	D2	HM	F1	HM								
	202		3'-0"	I.T	D1	HM	F1	HM								
	203		3'-0"	CORRIDOR 203	D2	HM	F1	HM								
	204		3'-0"	CORRIDOR 204	D2	HM	F1	HM								
	206		3'-0"	TRANS. SUPERVISOR 206	D1	HM	F1	HM								
	207		3'-0"	ASST. TRANS. SUPERVISOR 207	D1	HM	F1	HM								
	208		3'-0"	WORK BLOCK COORDINATOR 208	D1	HM	F1	HM								
	210		3'-0"	UNISEX TOILET ROOM 210	D1	HM	F1	HM								
	211		3'-0" x 7'-2"	ELECTRICAL 211	D6	HM	F3	HM								
	212		3'-0" x 7'-2"	MECHANICAL 212	D6	HM	F3	HM								
	213		3'-0"	EQUIPMENT 213	D1	HM	F1	HM								
	214		3'-0"	DISPATCH 214	D1	HM	F1	HM								
	214A		4'-0"	LOST AND FOUND 214A		HM		HM								
	215		3'-0"	CORRIDOR 215	D2	HM	F1	HM								
	218		3'-0"	YARD MASTER 218	D1	HM	F1	HM								

DOOR SCHEDULE

LOCATION	NO.	HDW SET	DOORS WIDTH (NOM)	DOORS LOCATION	DOORS TYPE	DOORS MAT'L	FRAMES TYPE	FRAMES MAT'L	FRAMES HEAD	FRAMES JAMB	FRAMES SILL	FIRE RATING	INS'L	REMARKS	FINISH DOOR	FINISH FRAME
OFFICE FIRST FLOOR AT DECK LEVEL	219		3'-0"	INCIDENT ROOM 219	D1	HM	F1	HM								
	220		3'-0"	SUPERVISOR 220	D1	HM	F1	HM								
	221		3'-0"	UNISEX TOILET ROOM 221	D1	HM	F1	HM								
	222		3'-0"	OFFICE 222	D1	HM	F1	HM								
	223		3'-0"	TECHNICIANS 223	D1	HM	F1	HM								
	224.1		3'-0"	OPERATIONS CONTROL CTR 224	D1	HM	F1	HM								
	224.2		3'-0"	OPERATIONS CONTROL CTR 224	D1	HM	F1	HM								
	226.1		3'-0"	EQUIPMENT 226	D1	HM	F1	HM								
	226.2		3'-0"	EQUIPMENT 226	D1	HM	F1	HM								
	227		3'-0"	UNISEX TOILET ROOM 227	D1	HM	F1	HM								
	228		3'-0"	CORRIDOR 228	D2	HM	F1	HM								
	229		3'-0"	QUIET ROOM 229	D1	HM	F1	HM								
	230.1		3'-0"	VESTIBULE 230	D5	AL		AL								
	230.2		3'-0"	VESTIBULE 230	D5	HM	F1	HM								
	233		3'-0"	WOMENS TOILET ROOM	D1	HM	F1	HM								
	234		3'-0"	MENS TOILET ROOM	D1	HM	F1	HM								
	235		3'-0"	OPER BREAK RM /KITCHEN 235	D5	AL		AL								
	236		3'-0"	JANITOR CLOSET 236	D1	HM	F1	HM								
	237		3'-0"	BUILDING MAINTENANCE 237	D1	HM	F1	HM								
	238		3'-0"	ELEVATOR MACHINE CLOSET 238	D1	HM	F1	HM								
	S3.1		3'-0"	STAIR 3 AT OFFICE FIRST FL	D1	HM	F1	HM								
	S3.2		3'-0"	STAIR 3 AT OFFICE FIRST FL	D1	HM	F1	HM								
OFFICE SECOND FLOOR	S2.5		3'-0"	STAIR 2 AT OFFICE SECOND FL	D1	HM	F1	HM								
	S3.3		3'-0"	STAIR 3 AT OFFICE SECOND FL	D1	HM	F1	HM								
	300		3'-0"	ELEVATOR LOBBY 300	D2	HM	F1	HM								
	301		3'-0" x 2'-0"	CORRIDOR 301	D7	HM	F3	HM								
	303		3'-0"	UNISEX TOILET ROOM 303	D1	HM	F1	HM								
	305		3'-0"	LIGHT RAIL DEPUTY DIR 305	D1	HM	F1	HM								
	306		3'-0"	LIGHT RAIL DIRECTOR 306	D1	HM	F1	HM								
	307		3'-0"	INCIDENT ROOM 307	D1	HM	F1	HM								
	308		3'-0"	I.T. 308	D1	HM	F1	HM								
	309		3'-0"	CONFERENCE 309	D2	HM	F1	HM								
	311		3'-0" x 2'-0"	ELECTRICAL 311	D6	HM	F3	HM								
	312		3'-0"	COMMUNICATIONS ROOM 312	D1	HM	F1	HM								
	313		3'-0"	MECHANICAL 313	D6	HM	F3	HM								
	314		3'-0"	UNISEX TOILET ROOM 314	D1	HM	F1	HM								
	315		3'-0"	UNISEX TOILET ROOM 315	D1	HM	F1	HM								
	318		3'-0"	JANITOR CLOSET 318	D1	HM	F1	HM								
	319		3'-0"	STORAGE 319	D1	HM	F1	HM								
	320		3'-0"	CLASSROOM 320	D2	HM	F1	HM								
	321.1		3'-0"	TRAINING OFFICE 321	D2	HM	F1	HM								
	321.2		3'-0"	TRAINING OFFICE 321	D1	HM	F1	HM								
PENTHOUSE	S2.6		3'-0"	STAIR 2 AT ROOF LEVEL	D11	AL		AL								

DOOR SCHEDULE NOTES:

1. TYPICAL DOOR HEIGHT: 7'-0" UNLESS NOTED OTHERWISE
2. TYPICAL DOOR THICKNESS: 1 3/4" UNLESS NOTED OTHERWISE
3. HEAD, JAMB AND SILL DETAILS ARE LOCATED ON DRAWING A8.XX UNLESS NOTED OTHERWISE

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

PROFESSIONAL CERTIFICATION

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DOOR SCHEDULES

DATE: DECEMBER 2013 SCALE: N.T.S.

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L80
SHEET NO. 84 OF 443

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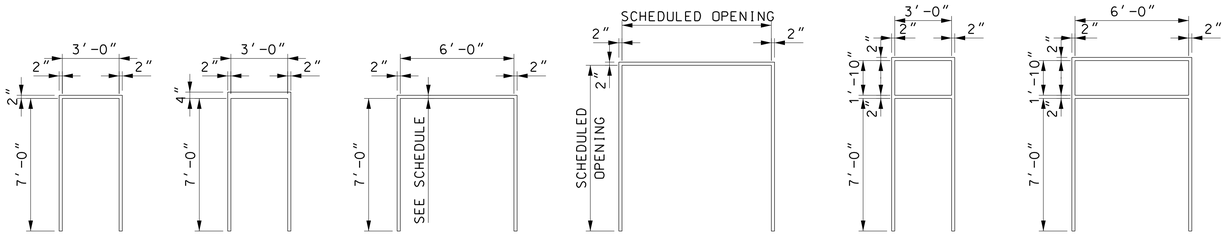
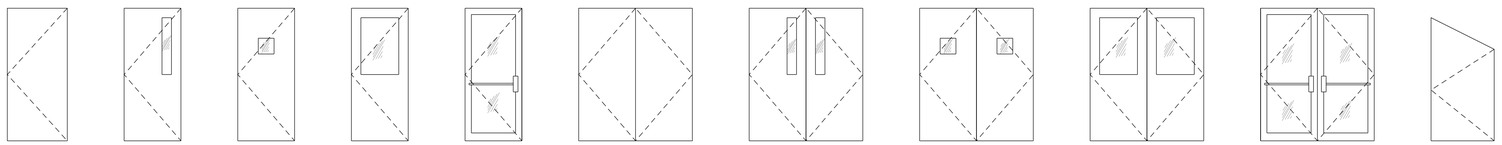
11/13/2013



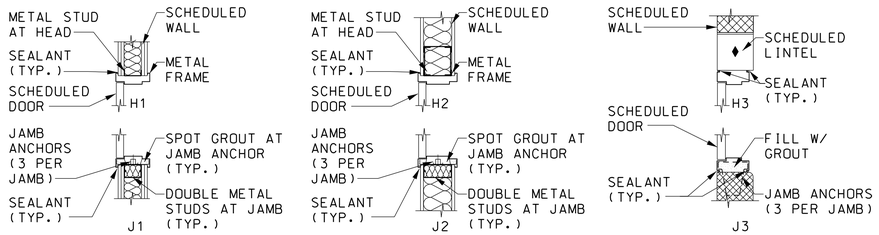
F1 F2 F3 F4 F5 F6



D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11

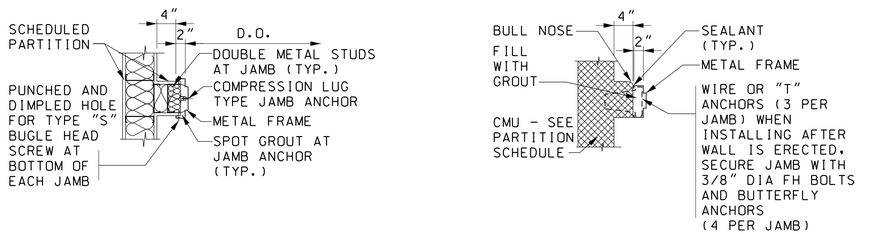
1 AR-L81 TYPICAL DOOR FRAMES AND DOOR TYPES

SCALE: 1/4" = 1'-0"
REF: AR-L80



2 AR-L81 DOOR DETAILS

SCALE: 3/4" = 1'-0"
REF: AR-L80



3 AR-L81 TYP. CORNER DETAIL

SCALE: 3/4" = 1'-0"
REF: AR-L80

4 AR-L81 TYP. CORNER DETAIL AT CMU

SCALE: 3/4" = 1'-0"
REF: AR-L80

2' 0 2' 4'
SCALE: 3/4"=1'-0"

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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESIGN	RJH
DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DOOR AND MISCELLANEOUS DETAILS

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L81
SHEET NO. 85 OF 443

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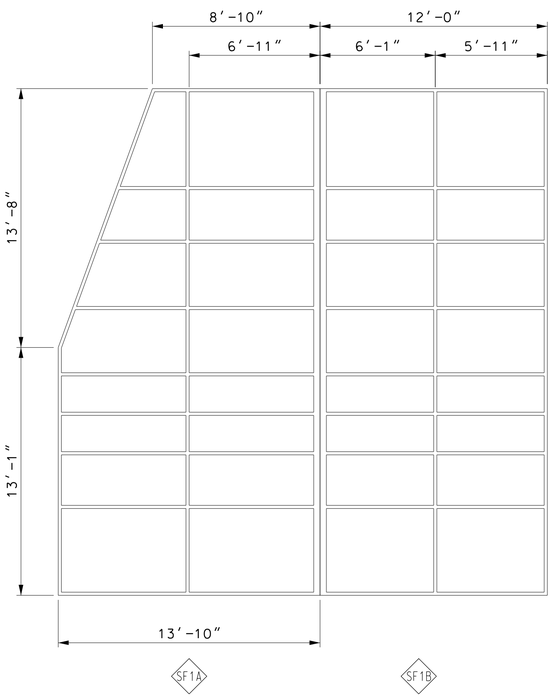
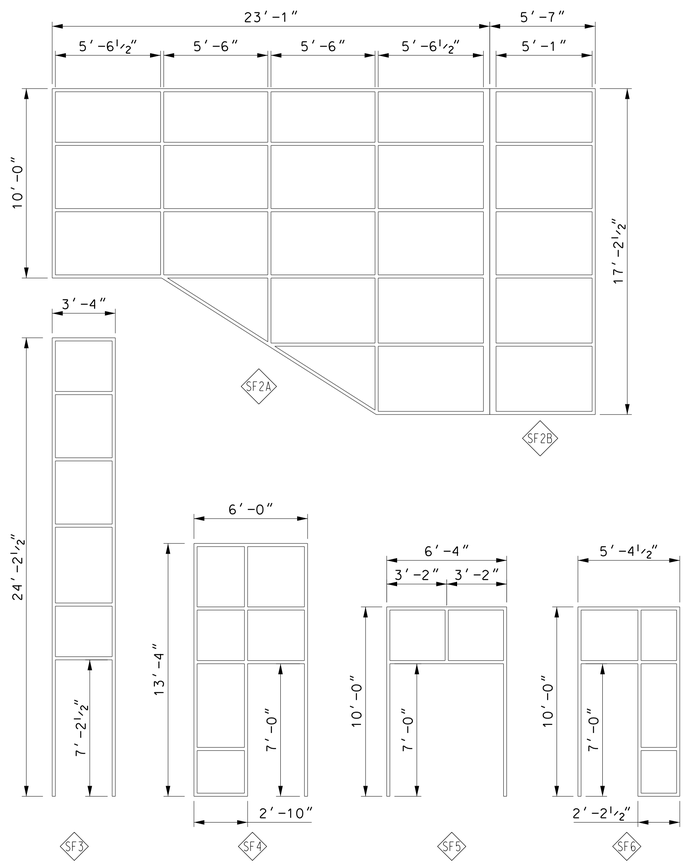
11/13/2013

WINDOW & STORE FRONT SCHEDULE

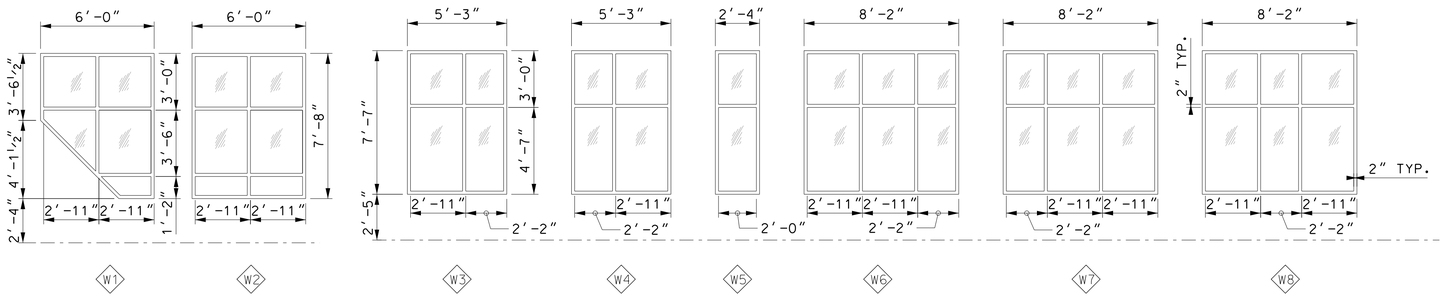
NO.	MAT'L	NOMINAL ROUGH OPENING (WIDTH x HEIGHT)	DETAILS			LINTEL	REMARKS
			HEAD	JAMB	SILL		
W1	ALUM	6'-0" X 7'-8"					
W2	ALUM	6'-0" X 7'-8"					
W3	ALUM	5'-3" X 7'-7"					
W4	ALUM	5'-3" X 7'-7"					
W5	ALUM	2'-4" X 7'-7"					
W6	ALUM	8'-2" X 7'-7"					
W7	ALUM	8'-2" X 7'-7"					
W8	ALUM	8'-2" X 7'-7"					
W9	ALUM	2'-4" X 2'-0"					
W10	ALUM	5'-3" X 2'-0"					
W11	ALUM	5'-3" X 2'-0"					
W12	ALUM	8'-2" X 2'-0"					
SF1A	ALUM	13'-10" X 26'-9"					STORE FRONT
SF1B	ALUM	12'-1/2" X 26'-9"					STORE FRONT
SF2A	ALUM	23'-1" X 17'-2 1/2"					STORE FRONT
SF2B	ALUM	5'7" X 17'-2 1/2"					STORE FRONT
SF3	ALUM	3'-4" X 24'-2 1/2"					STORE FRONT
SF4	ALUM	6'-0" X 13'-4"					STORE FRONT
SF5	ALUM	6'-4" X 10'-0"					STORE FRONT
SF6	ALUM	5'-4 1/2" X 10'-0"					STORE FRONT

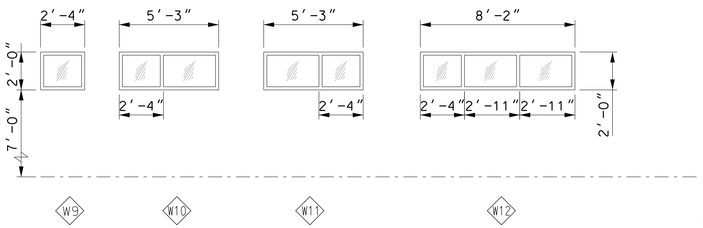
WINDOW SCHEDULE NOTE(S);
1. HEAD, JAMB AND SILL DETAILS ARE LOCATED ON THIS SHEET UNLESS NOTED OTHERWISE





2 AR-L82 **STOREFRONT DETAIL**
SCALE: 1/4" = 1'-0"
REF: AR-L82





1 AR-L82 **WINDOW DETAIL**
SCALE: 1/4" = 1'-0"
REF: AR-L82

4' 0 4' 8'
SCALE: 1/4"=1'-0"

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DESIGN RJH
DRAWN RJH
CHECK DAK
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
WINDOW/STOREFRONT SCHEDULE & DETAILS
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L82
SHEET NO. 86 OF 443

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11/13/2013

ROOM FINISH SCHEDULE

LOCATION	ROOM NO.	DESCRIPTION	FLOOR	BASE	WALLS				CEILING		REMARKS
					NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	
YARD LEVEL	100	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	8'-6"/9'-0"*	*SEE RCP ON SHEET AR-L20
	101	LIGHT RAIL BREAK ROOM	CS	VB	PT	PT	PT	PT	APC	9'-0"	
	102	LIGHT RAIL OFFICE	CS	VB	PT	PT	PT	PT	APC	9'-0"	
	103	LIGHT RAIL MAINTENANCE STORAGE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	104	CLEANING SUPPLY STORAGE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	105	ELECTRICAL ROOM	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	106	BULK FLUID STORAGE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	107	FIRE PROTECTION	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	108	FIRE PROTECTION	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	109	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	8'-6"/9'-0"*	*SEE RCP ON SHEET AR-L20
	110	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	APC	9'-0"	
	111	CORRIDOR	CS	VB	PT	PT	PT	PT	GYPB	8'-6"	
	112	CLEANING BREAK ROOM	CS	VB	PT	PT	PT	PT	APC	9'-0"	
	113	CLEANING OFFICE	CS	VB	PT	PT	PT	PT	APC	9'-0"	
	114	WATER SERVICE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	115	ELECTRICAL SERVICE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	116	EMERGENCY ELECTRICAL SERVICE	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	117	WASH BAY	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	118	ELECTRICAL	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	119	COMMUNICATIONS CLOSET	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	120	FIRE PROTECTION	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	121	COMPRESSOR ROOM	EPX	N/A	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	S2	STAIR 2 AT YARD LEVEL		VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	S2	STAIR 2 AT YARD LEVEL ROOF		VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	122	ELEVATOR LOBBY AT BROOKVILLE RD	CS	VB	PT	PT	PT	PT	APC	9-0"	
OFFICE FIRST FLOOR AT DECK LEVEL	S2	STAIR 2 AT OFFICE FIRST FLOOR		VB	PT / S/F	PT	PT	PT / S/F	EXP*	EXP*	*EXPOSED STRUCTURE
	S3	STAIR 3 AT OFFICE FIRST FLOOR		VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	200	VESTIBULE	WOM/CS	VB	PT	PT	PT	PT	GYPB	10'-0"	
	201	LOBBY	CS	VB	PT	PT	PT	PT	GYPB/APC*	10'-0"/EXP	*SEE RCP ON SHEET AR-L22
	202	I.T.	EPX	VB	PT	PT	PT	PT	APC	9-0"	
	203	CORRIDOR	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	204	CORRIDOR	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	205	ADMINISTRATION/COPY	VCT	VB	PT	PT	PT	CW/PT	APC	10'-0"	
	206	TRANSPORTATION SUPERVISOR	CARP	VB	PT	CW/PT	PT	PT	APC	10'-0"	
	207	ASSISTANT TRANSPORTATION SUPERV.	CARP	VB	PT	CW/PT	PT	PT	APC	10'-0"	
	208	WORK BLOCK COORDINATOR	CARP	VB	PT	PT	PT	CW/PT	APC	10'-0"	
	209	TEAM ROOM	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	210	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	APC/GYPB*	10'-0"	*SEE RCP ON SHEET AR-L22
	211	ELECTRICAL	EPX	EPX	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	212	MECHANICAL	EPX	EPX	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	213	EQUIPMENT	EPX	EPX	PT	PT	PT	PT	APC	10'-0"	
	214	DISPATCH	CARP	VB	CW/PT	CW/PT	CW/PT	PT	APC	10'-0"	
	214A	LOST AND FOUND	CARP	VB	PT	PT	PT	PT	GYPB	9-0"	
	215	CORRIDOR	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	216	CORRIDOR	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	217	TEAM ROOM	VCT	VB	CW/PT	CW/PT	PT	PT	APC/EXP*	9'-0"/EXP*	*SEE RCP ON SHEET AR-L22
	218	YARD MASTER	CARP	VB	PT	PT	CW/PT	PT	APC	10'-0"	
	219	INCIDENT ROOM	CARP	VB	PT	PT	CW/PT	PT	APC	10'-0"	

ROOM FINISH SCHEDULE

LOCATION	ROOM NO.	DESCRIPTION	FLOOR	BASE	WALLS				CEILING		REMARKS
					NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	
OFFICE FIRST FLOOR AT DECK LEVEL	220	SUPERVISOR	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	221	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	APC	9'-0"	
	222	OFFICE	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	223	TECHNICIANS	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	224	OPERATIONS CONTROL CENTER	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	225	CORRIDOR	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	226	EQUIPMENT	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	227	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	8'-6"/9'-0"*	*SEE RCP ON SHEET AR-L22
	228	CORRIDOR	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	229	QUIET ROOM	CS	VB	PT	PT	PT	PT	APC	10'-0"	
	230	VESTIBULE	WOM/CS	VB	PT	PT	PT	PT	GYPB	10'-0"	
	231	CORRIDOR	CS	VB	PT	PT	PT	PT	APC/GYPB/EXP*	VARIES*	*SEE RCP ON SHEET AR-L22
	232	LOCKERS	CS	VB	PT	PT	PT	PT	GYPB/EXP*	9'-0"/EXP*	*SEE RCP ON SHEET AR-L22
	233	WOMENS TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	9'-0"/10-0"*	*SEE RCP ON SHEET AR-L22
	234	MENS TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	9'-0"/10-0"*	*SEE RCP ON SHEET AR-L22
	235	OPERATOR BREAK ROOM/KITCHENETTE	CS	VB	PT	PT	PT	PT	APC/EXP*	VARIES*	*SEE RCP ON SHEET AR-L22
	236	JANITOR CLOSET	EPX	EPX	PT	PT	PT	PT	APC	9'-0"	
	237	BUILDING MAINTENANCE	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	238	ELEVATOR MACHINE CLOSET	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
OFFICE SECOND FLOOR	S2	STAIR 2 AT OFFICE SECOND FLOOR		VB	PT / S/F	PT	PT	PT / S/F	EXP*	EXP*	*EXPOSED STRUCTURE
	S3	STAIR 3 AT OFFICE SECOND FLOOR		VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	300	ELEVATOR LOBBY	CS	VB	PT	PT	PT	PT	GYPB/EXP*	9'-0"/EXP*	*SEE RCP ON SHEET AR-L23
	301	CORRIDOR	VCT	VB	PT	PT	PT	PT	GYPB	9'-0"	
	302	CORRIDOR	VCT	VB	PT	PT	PT	PT	GYPB	9'-0"	
	303	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	8'-6"/9'-0"*	*SEE RCP ON SHEET AR-L23
	304	ADMINISTRATION/COPY	VCT	VB	PT	PT	PT	PT	APC	10'-0"	
	305	LIGHT RAIL DEPUTY DIRECTOR	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	306	LIGHT RAIL DIRECTOR	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
	307	INCIDENT ROOM	CARP	VB	PT	PT	PT	PT	GYPB/APC*	9'-0"/10'-0"*	*SEE RCP ON SHEET AR-L23
	308	I.T.	CARP	VB	PT	PT	PT	PT	APC	9'-0"	
	309	CONFERENCE	VCT	VB	PT/S/F	PT/S/F	PT	PT	APC/EXP*	9'-0"/EXP*	*SEE RCP ON SHEET AR-L23
	310	CORRIDOR	VCT	VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	311	ELECTRICAL	EPX	EPX	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	312	COMMUNICATIONS ROOM	EPX	EPX	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	313	MECHANICAL	EPX	EPX	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE
	314	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	GYPB/APC*	8'-6"/9'-0"*	*SEE RCP ON SHEET AR-L23
	315	UNISEX TOILET ROOM	EPX	EPX	PT	PT	PT	PT	APC	9'-0"	
	316	CORRIDOR	VCT	VB	PT	PT	PT	PT	GYPB	9'-0"	
	317	CORRIDOR	VCT	VB	PT	PT	PT	PT	GYPB	9'-0"	
	318	JANITOR CLOSET	EPX	EPX	PT	PT	PT	PT	APC	9'-0"	
	319	STORAGE	CARP	VB	PT	PT	PT	PT	APC	9'-0"	
	320	CLASSROOM	CARP	VB	PT	PT	PT	PT	GYPB/APC*	9'-0"/10'-0"*	*SEE RCP ON SHEET AR-L23
	321	TRAINING OFFICE	CARP	VB	PT	PT	PT	PT	APC	10'-0"	
PENTHOUSE	S2	STAIR 2 AT ROOF LEVEL		VB	PT	PT	PT	PT	EXP*	EXP*	*EXPOSED STRUCTURE

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Gannett Fleming
WR&A

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DRAWN	RJH
CHECK	DAK
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
FINISH SCHEDULE
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L84
SHEET NO. 87 OF 443

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11/13/2013

EQUIPMENT LIST

ID. NO.	Item Description	Location
EXL1	Compactor, stationary, trash, 40 cy.	EXTERIOR
EXL2	Sanding System, Silo & Portable Carts	EXTERIOR
LC1	Compressor, screw, rotary, 40 HP	COMPRESSOR/LUBE ROOM
SL1	Forklift, electric, 3,000 lbs.	STORE ROOM
EP1	Reel, hose, compressed air	EMERGENCY PIT
TR1	Eye wash, Primary, Portable Station Kit	TRAIN WASH
TR2	Wash, high pressure, hot water, electric	TRAIN WASH
TR3	Washer, LRV, with reclaim	TRAIN WASH

ABBREVIATIONS

LRV = LIGHT RAIL VEHICLE

KEYED NOTES

A. GENERAL NOTES

1. FINAL SIZES AND LOCATIONS SHOULD BE VERIFIED WITH APPROVED MANUFACTURER SHOP DRAWINGS.
2. ALL EQUIPMENT WILL BE CONTRACTOR FURNISHED.
3. CONTRACTOR TO VERIFY AND COORDINATE ALL STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS OF EQUIPMENT WITH MANUFACTURERS APPROVED SHOP DRAWINGS.
4. EQUIPMENT PLAN DRAWINGS ARE PREPARED TO SCALE FOR BOTH EQUIPMENT SIZE AND LOCATION. THE EQUIPMENT LAYOUT IS PROVIDED FOR GENERAL LOCATION OF EQUIPMENT UNLESS SPECIFICALLY LOCATED BY DIMENSIONS ON THE DRAWINGS. THE EQUIPMENT SHALL BE LOCATED NEAR THE LOCATION SHOWN ON DRAWINGS BUT IN THE MOST OPERATIONALLY EFFICIENT POSITION AND ORIENTATION.
5. FINAL DESIGNER SHOULD VERIFY ALL EQUIPMENT MEETS APPLICABLE CODES AND STANDARDS.
6. REFER TO CIVIL DRAWINGS FOR EXTERIOR EQUIPMENT

B. EQUIPMENT NOTES

(1) 6" HIGH HOUSEKEEPING PAD FOR COMPRESSOR. COORDINATE SIZE WITH EQUIPMENT, REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DETAILS.

(2) WASHER, LRV, WITH RECLAIM ID. NO. TR3 IS BASED ON A SPECIFIC MANUFACTURER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING LAYOUT OF EQUIPMENT IN WASH BAY THAT MAXIMIZES THE CLEANING CAPABILITY OF THE WASH SYSTEM. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND CHANGING ANY UNDER-SLAB OR EMBEDDED PIPING AND CONDUIT AS REQUIRED BY THE APPROVED WASHER MANUFACTURER. CONTRACTOR AND MANUFACTURER SHALL COORDINATE ALL INTERCONNECTING PIPING AND ELECTRICAL WORK BETWEEN PANELS, PUMPS, AND WASH EQUIPMENT IN THE WASH BAY.

(3) CONTRACTOR SHALL COORDINATE CONTROLS, WATER, AND HIGH PRESSURE PIPING BETWEEN EQUIPMENT ID. NO. TR2 AND REMOTE STATION.

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DRAWN	KAG
CHECK	TMD
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
EQUIPMENT NOTES AND EQUIPMENT LIST
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L90
SHEET NO. 88 OF 443

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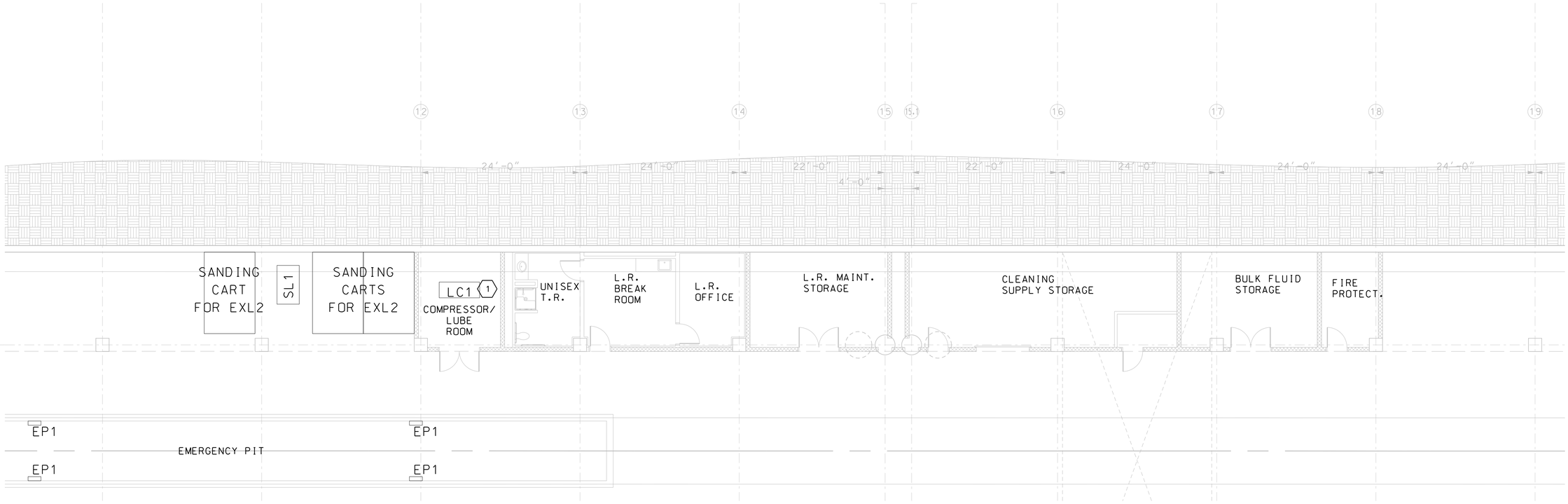
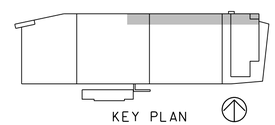
11/14/2013

NOTES:

1. FOR EQUIPMENT NOTES, REFER TO DRAWING AR-L90.
2. FOR EQUIPMENT LIST, REFER TO DRAWING AR-L90.





1 / AR-L91 **YARD LEVEL EQUIPMENT PLAN**
SCALE: 1/8"=1'-0"

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

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
YARD LEVEL – EQUIPMENT PLAN
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L91
SHEET NO. 89 OF 443

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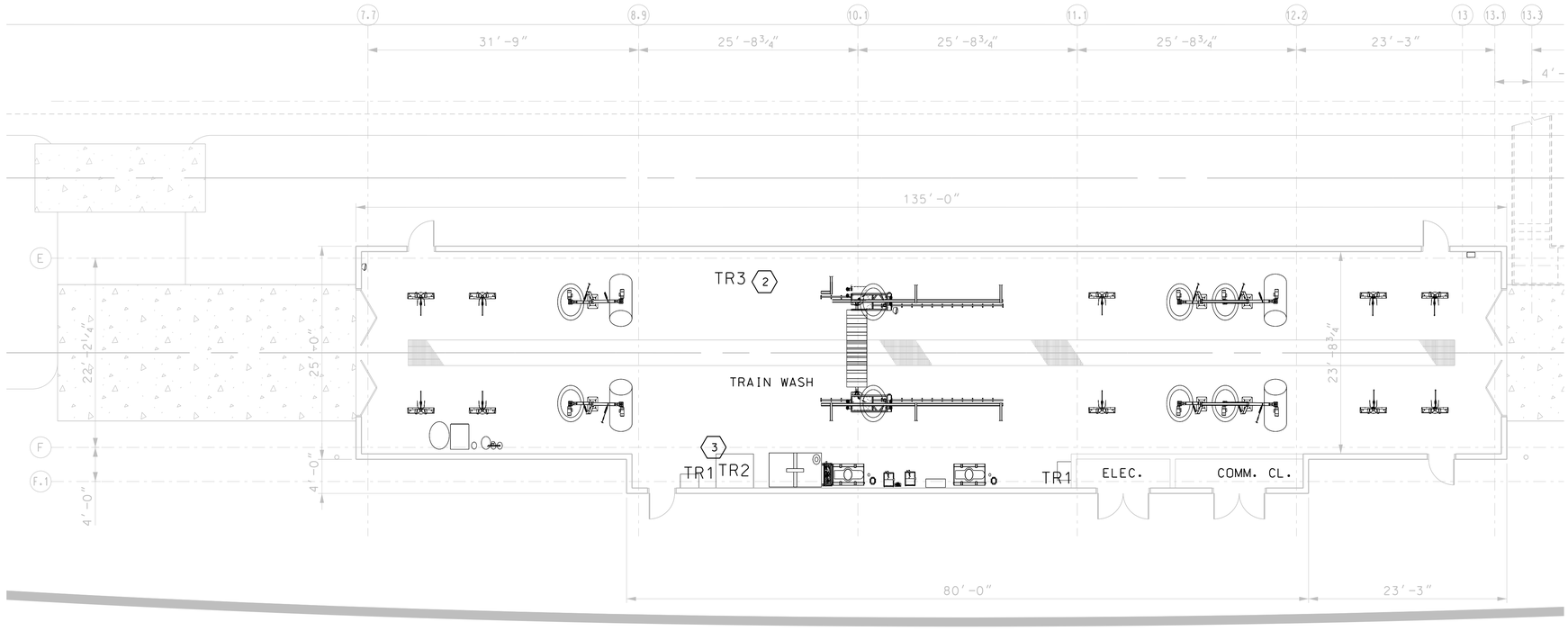
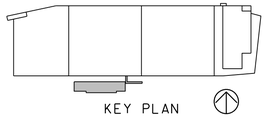
11/14/2013

NOTES:

1. FOR EQUIPMENT NOTES, REFER TO DRAWING AR-L90.
2. FOR EQUIPMENT LIST, REFER TO DRAWING AR-L90.



1 / AR-L92 **WASH BUILDING EQUIPMENT PLAN**
SCALE: 1/8"=1'-0"



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

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DESGN	KAG
DRAWN	KAG
CHECK	TMD
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
WASH BUILDING – EQUIPMENT PLAN
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. AR-L92
SHEET NO. 90 OF 443

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GENERAL STRUCTURAL NOTES:

I.GENERAL

I.1 GENERAL NOTES ARE TO BE READ IN CONJUNCTION WITH PROJECT TECHNICAL SPECIFICATIONS AND THE ISSUED DRAWINGS.

I.2 THE DESIGN DEPICTED IN THIS SET OF DRAWINGS REPERESENTS PRELIMINARY ENGINEERING EFFORTS AND ARE SUGGESTED STRUCTURAL DESIGN ONLY. FOUNDATION DESIGN, SIZING DETAILS AND COORDINATION WITH OTHER DISCIPLINES ARE THE RESPONSIBILITY OF THE DESIGN BUILDER. ALTERNATIVES TO THE DETAILS SHOWN MAY BE SUBJECT TO OWNER APPROVAL.

I.3 DIMENSIONS OF EQUIPMENT OPENINGS, SUPPORTS, PADS, SLAB DEPRESSIONS, FOUNDATIONS & ANCHORAGE HAVE BEEN DETERMINED USING SPECIFIC MANUFACTURER'S EQUIPMENT.FINAL DIMENSIONS SHALL BE VERIFIED WITH THE ACTUAL EQUIPMENT PURCHASED.DIMENSIONS SHALL BE CHANGED ONLY WITH THE APPROVAL OF THE ENGINEER.

I.4 SEE ARCHITECTURAL, MECHANICAL,PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL OPENINGS, SLEEVES, EMBEDDED ITEMS, UNDERGROUND PIPING & ELECTRICAL GROUNDING NOT SHOWN ON STRUCTURAL DRAWINGS.

I.5 DESIGN BUILDER SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK. VARIATIONS BETWEEN DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.

II DESIGN CRITERIA

II.1 CODES AND STANDARDS

1. INTERNATIONAL BUILDING CODE (IBC) 2012
2. CODES AND STANDARDS LISTED IN THE BASIS OF DESIGN
3. STATE OF MARYLAND BUILDING CODE
   MARYLAND BUILDING PERFORMANCE STANDARDS (MBPS) WITH THE DEPARTMENT OF HOUSING AND COMMUNITY

   DEVELOPMENT(DHCD) MODIFICATIONS.

3.1 INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION.

5. MARYLAND TRANSIT ADMINISTRATION.

5.1 MTA RED/PURPLE LIGHT RAIL DESIGN CRITERIA.

5.2 DRAWING AND CADD STANDARDS FOR MICROSTATION V8 XM, REVISION 1.1 FEBRUARY 25, 2011.

5.3 OFFICE OF ENGINEERING AND CONSTRUCTION, QUALITY ASSURANCE PROGRAM PLAN, AUGUST 27, 2007.

5.4 REQUIREMENTS OF QUALITY MANAGEMENT PLAN FOR A/E DESIGN CONSULTANT,
5.5 FEBRUARY 7, 2006.

5.6 GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS, OCTOBER 2001.

5.7 SUPPLEMENTARY GENERAL PROVISIONS FOR CONSTRUCTION CONTRACTS, FEDERALLY FUNDED PROJECTS ONLY, JUNE 2001.

5.8 RED AND PURPLE LINE SUSTAINABLE DESIGN CHECKLIST.

6. COUNTY OF MONTGOMERY
   ICC'S APPLICABLE CODES

6.1 INTERNATIONAL BUILDING CODE (IBC) 2012 EDITION

II.2 DESIGN LOADS

II.2.1 LIVE LOADS
REFER TO THE BASIS OF DESIGN FOR THE DESIGN LIVE LOADS REQUIREMENTS.

II.2.2 SEISMIC

SEISMIC DESIGN CATEGORY	B
SITE CLASSIFICATION	D
Ss	0.16
S1	0.05
Sds	0.17
Sd1	0.08

IMPORTANCE FACTOR (IE) 1.25

II.2.4 SNOW LOAD

GROUND SNOW LOAD 20 PSF (MONTGOMERY COUNTY)

THERMAL FACTOR	1.0
EXPOSURE FACTOR	1.2
IMPORTANCE FACTOR	1.1

SNOW DRIFT: WHERE APPLICABLE

II. 2. 5 DEAD LOAD

STRUCTURAL SYSTEM DEAD LOAD SHALL BE DETERMINED AS PER MTA DESIGN CRITERIA CHAPTER 11 TABLE 4

II. 2. 2 WIND LOAD

BASIC WIND SPEED (V) 110 MPH
DESIGN WIND PRESSURE (MWFRS) 20 PSF
IMPORTANCE FACTOR (Iw) 1.15
EXPOSURE CATEGORY C

III. STRUCTURAL MATERIALS

III. 1 CEMENT

TYPE I, II OR III CEMENT (PER PROJECT SPECIFICATIONS) SHALL BE USED

III. 2 CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-11
2. 28 - DAY CYLINDER COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:

   f' c = 4500 PSI CONCRETE FOR FOOTINGS, SLAB ON GRADE, GRADE BEAMS, FRAMED SLABS, WALLS, BEAMS ETC.

   f' c = 3500 PSI CONCRETE FOR TOPPING ON INTERIOR METAL DECK.

3. ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED WITH 6% +/- 1%.

III. 3 CONCRETE PROTECTION FOR REINFORCEMENT AND WELDED WIRE FABRIC(WWF)

REINFORCING BARS SHALL HAVE CONCRETE COVER AS FOLLOWS:

1. FOOTINGS AND OTHER STRUCTURE POURED AGAINST EARTH: 3" (BOTTOM AND SIDE REBARS), 2" (TOP REBARS)
2. BEAMS AND COLUMNS: $1\frac{1}{2}$"
3. SLABS AND WALLS: 1" (NOT EXPOSED TO EARTH AND WEATHER)

   $1\frac{1}{2}$" FOR REBARS #5 AND SMALLER (EXPOSED TO EARTH OR WEATHER)

4. 2" FOR REBARS #6 AND GREATER (EXPOSED TO EARTH OR WEATER)
   SALB ON GRADE: WWF TO BE PLACED AT MID-DEPTH, UNO.

III. 4 REINFORCEMENT STEEL

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
3. REINFORCEMENT DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318-11, ACI DETAILING MANUAL - 2004 (SP-66) AND TECHNICAL SPECIFICATIONS SECTION 03210.

   ALL CONTINUOUS REINFORCING SHALL BE SPLICED AND STAGGERED,UNLESS NOTED OTHERWISE.

III. 5 STRUCTURAL STEEL

1. ALL WIDE FLANGE STRUCTURAL SHAPES SHALL CONFORM TO ASTM A992, GRADE 50.
2. STRUCTURAL TUBING (HSS) TO CONFORM TO ASTM A500, GRADE B.
3. STEEL PIPES TO CONFORM TO ASTM A53, GRADE B.
4. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE AND SHALL BE ZINC COATED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM F1554.
5. ALL MISCELLANEOUS STEEL (PLATES, ANGLES, CHANNELS AND BARS) SHALL CONFORM TO ASTM A36.
6. SHOP AND FIELD CONNECTIONS SHALL BE WELDED OR MADE WITH $\frac{3}{4}$" DIAMETER MINIMUM, HIGH STRENGTH BOLTS IN ACCORDANCE WITH ASTM A325.
7. ALL WELDING SHALL MEET THE REQUIREMENTS OF STRUCTURAL WELDING CODE AWS D1. 1-2010 USING ELECTRODES E70XX.
8. ALL WELDS TO BE $\frac{3}{16}$" FILLET, MINIMUM 3" LONG UNLESS OTHERWISE REQUIRED.
9. ESTABLISH SPECIAL PROCEDURES FOR WELDS LARGER THAN $\frac{3}{8}$" TO PREVENT LAMELLAR TEARING.
10. ALL ERECTED STEEL AND CONNECTIONS SHALL BE INSPECTED BY A QUALIFIED INSPECTOR.
11. ALL FULL PENETRATION WELDS SHALL BE TESTED BY ULTRASONIC METHOD.
12. WASHERS AND NUTS SHALL CONFORM TO ASTM F436 AND A563 RESPECTIVELY.
13. SEE SPECIFICATIONS FOR PAINTING.
14. NO FIELD CUTTING OF STEEL MEMBERS SHALL BE PERMITTED WITHOUT PRIOR AUTORIZATION OF THE STRUCTURAL ENGINEER.
15. ALL STEEL PERMANENTLY EXPOSED TO WEATHER OR SOIL SHALL BE HOT DIP GALVANIZED (G90).
16. ALL STEEL ERECTION SHALL BE COMPLETED, INCLUDING ALL BRACING BEFORE OTHER TRADES CAN START THEIR WORK.

III. 6 SOIL BEARING

SEE SOIL REPORT.

III. 7 MASONRY

1. CONCRETE MASONRY SHALL CONFORM TO ASTM C90 FOR LOAD-BEARING UNITS AND ASTM C129 FOR NON-LOAD BEARING UNITS.
2. CONCRETE MASONRY UNITS SHALL BE MADE WITH LIGHTWEIGHT CONCRETE. COMPRESSIVE STRENGTH OF MASONRY ASSEMBLAGE f'm = 2000 PSI FOR LOAD BEARING AND f'm = 1500 PSI FOR NON-LOAD BEARING.
3. ALL MORTAR SHALL BE TYPE "S" CONFORMING TO ASTM C270 FOR ABOVE GRADE CONSTRUCTION. USE TYPE "M" FOR BELOW GRADE.
4. PROVIDE HORIZONTAL MASONRY REINFORCING AT 16" ON CENTER IN ALL MASONRY WALLS UNO.
5. PROVIDE VERTICAL CONTROL JOINTS IN ALL MASONRY WALLS AT 30'-0" MAX. ON CENTER .
6. ALL MORTAR JOINTS IN MASONRY WALLS SHALL BE FILLED 100% WITH MORTAR.
7. ALL MASONRY WALLS TO BE REINFORCED WITH #5 @ 24. IN ON CENTER, FULL HEIGHT, GROUTED WITH PEA GRAVEL CONCRETE. GROUT SHALL CONFORM TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
8. DESIGN OF MASONRY IS BASED ON INSPECTED CONSTRUCTION.
9. DOVETAIL ANCHOR SHALL BE 2'-0" MAX. ON CENTER WHERE MASONRY ABUTS FACES OF STRUCTURE.
10. PROVIDE DOVETAIL ANCHORS SLOTS INTO MASONRY AT 16" ON CENTER UNO.
11. PROVIDE MASONRY TIES BETWEEN 4" THICK BRICK VENEER WALL AND MASONRY WALL OR STEEL STUD. SPACE TIES AT 16" ON CENTER VERTICALLY AND 24" IN HORIZONTALLY.
12. SEE SPECIFICATIONS FOR BRICKS.

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ALA
ATHAVALE, LYSTAD & ASSOCIATES INC.
Consulting Engineers Rockville, Maryland

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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
GENERAL STRUCTURAL NOTES - SHEET 1 OF 2
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L01
SHEET NO. 91 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA01.dgn
11/15/2013

III. 8 FOUNDATION

1. ALL FOOTINGS SHALL PROJECT AT LEAST 1'-0" INTO UNDISTURBED NATURAL SOIL OR THE COMPACTED CONTROLLED FILL HAVING A BEARING VALUE AT LEAST EQUAL TO THAT SPECIFIED IN THE SOIL REPORT. SEE SOIL REPORT FOR SUB GRADE PREPARATION.

2. ALL DISTURBED EARTH UNDER FOOTINGS SHALL BE REPLACED WITH LEAN CONCRETE (f'c = 2000 psi).

3. ALL BEARING TRATA SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.

4. NO EXCAVATION SHALL BE CLOSER THAN AT A SLOPE OF 2:1 (2 HORIZONTAL TO 1 VERTICAL) TO A FOOTING.

5. DO NOT PLACE CONCRETE OVER FROZEN SOIL.

6. THE REQUIRED SOIL BEARING CAPACITY SHALL BE CHECKED AND VERIFIED BY A SOIL CONSULTANT.

7. BOTTOM OF ALL EXTERIOR FOOTINGS AND FOOTINGS IN UNHEATED SPACES SHALL BE LEAST 2'-6" BELOW FINISHED GRADE.

III. 9 SLABS ON GRADE

1. ALL EXTERIOR SLABS ON GRADE SHALL BE AIR ENTRAINED WITH 6% + 1%. PROVIDE CONTROL JOINTS EACH WAY IN ALL EXTERIOR SLAB ON GRADE.

2. SLABS ON GRADE SHALL BE LAID ON A LAYER OF 10 MIL MINIMUM POLYETHYLENE OVER A 6 IN. LAYER OF WASHED GRAVEL. THE VAPOR BARRIER SHALL MEET THE REQUIREMENTS OF MTA DESIGN CRITERIA SECTION 11. 5. 6 - 1. SEE SOIL CONSULTANT'S RECOMMENDATION FOR SUB GRADE PREPARATION.

III. 10 BACKFILL

MATERIALS USED FOR BACKFILL SHALL BE IN ACCORDANCE WITH CHAPTER 13 OF THE MTA DESIGN CRITERIA AND THE SOIL REPORT.

III. 11 HANDRAILS, GUARDRAILS AND LADDERS

1. ALL GUARDRAILS AND HANDRAILS SHALL CONSIST OF STAINLESS STEEL CONFORMING TO ASTM A312 GRADE TP321.

2. RAILINGS ON STATION PLATFORMS AND MEZZANINES SHALL BE DESIGNED FOR THE SIMULTANEOUS APPLICATION OF A HORIZONTAL LOAD OF 150 PLF AND A VERTCAL LOAD OF 100 PLF AT THE TOP.

3. FOR HANDRAILS AND TOP RAILS OF GUARDS OTHER THAN ON STATION PLATFORM AND MEZZANINES, THE DESIGN SHALL BE BASED ON LOADING REQUIREMENTS AS PER IBC 2012.

4. ALL LADDERS SHALL BE DESIGNED AT A MINIMUM TO SUSTAIN LOADS AS REQUIRED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.

III. 12 LIGHT GAGE STEEL STUDS

DESIGN AND CONSTRUCTION OF STEEL STUDS SHALL CONFORM TO AISC SPECIFICATIONS. ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653 AND HAVE A MINIMUM YIELD STRENGTH OF 33 KSI.

III. 13 STEEL GRATING

FABRICATE ALL STEEL GRATING IN ACCORDANCE WITH THE NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS. "METAL BAR GRATING MANUAL" NAAM BBG 531. ATTACH ALL GRATING TO STEEL MEMBERS WITH WELD-ON ANCHORS. BAND OUTSIDE EDGES OF GRATING AND ALL OPENINGS IN GRATING USING BARS OF THE SAME DEPTH AS THE BEARING BARS.

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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
GENERAL STRUCTURAL NOTES - SHEET 2 OF 2
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L02
SHEET NO. 92 OF 443

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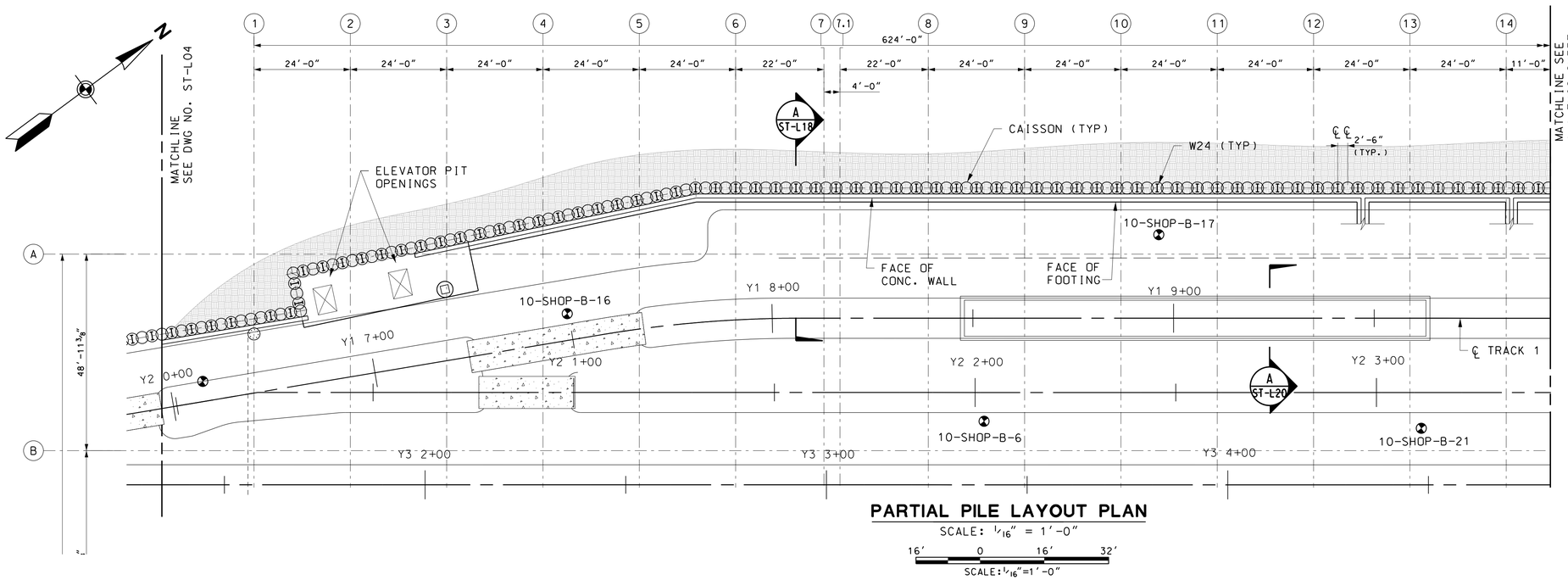
11/15/2013



PARTIAL PILE LAYOUT PLAN

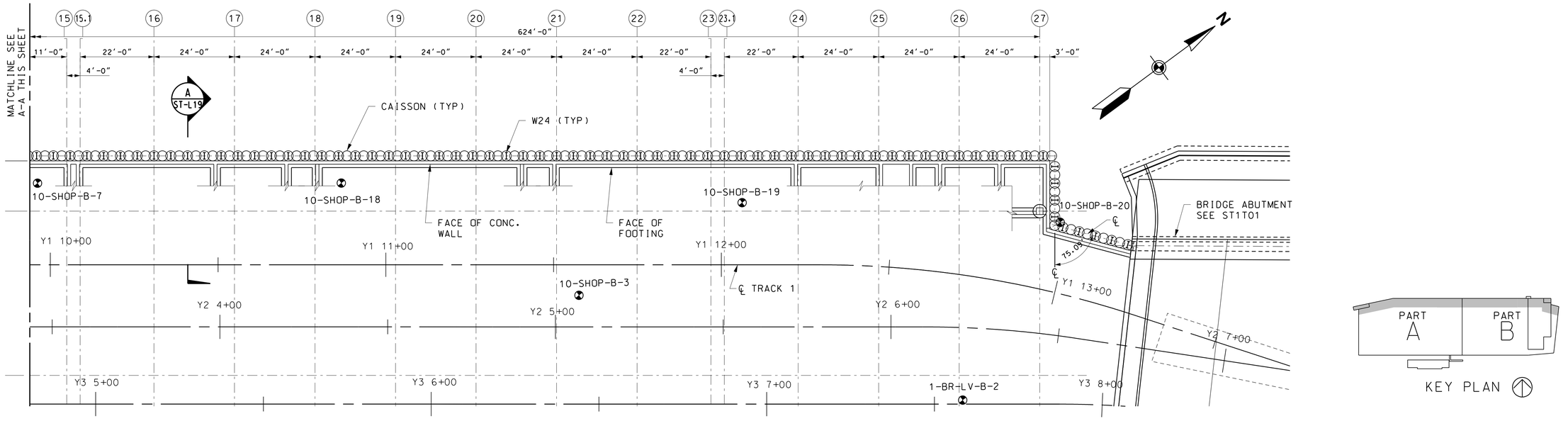
SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

NOTES:

1. ALL CAISSONS TO BE 3'-0" DIAMETER.
2. CONCRETE STRENGTH f'c = 5000 PSI.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND TRACK DRAWINGS.



PARTIAL PILE LAYOUT PLAN

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

KEY PLAN

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DESIGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PILE LAYOUT PLAN

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L03
SHEET NO. 93 OF 443

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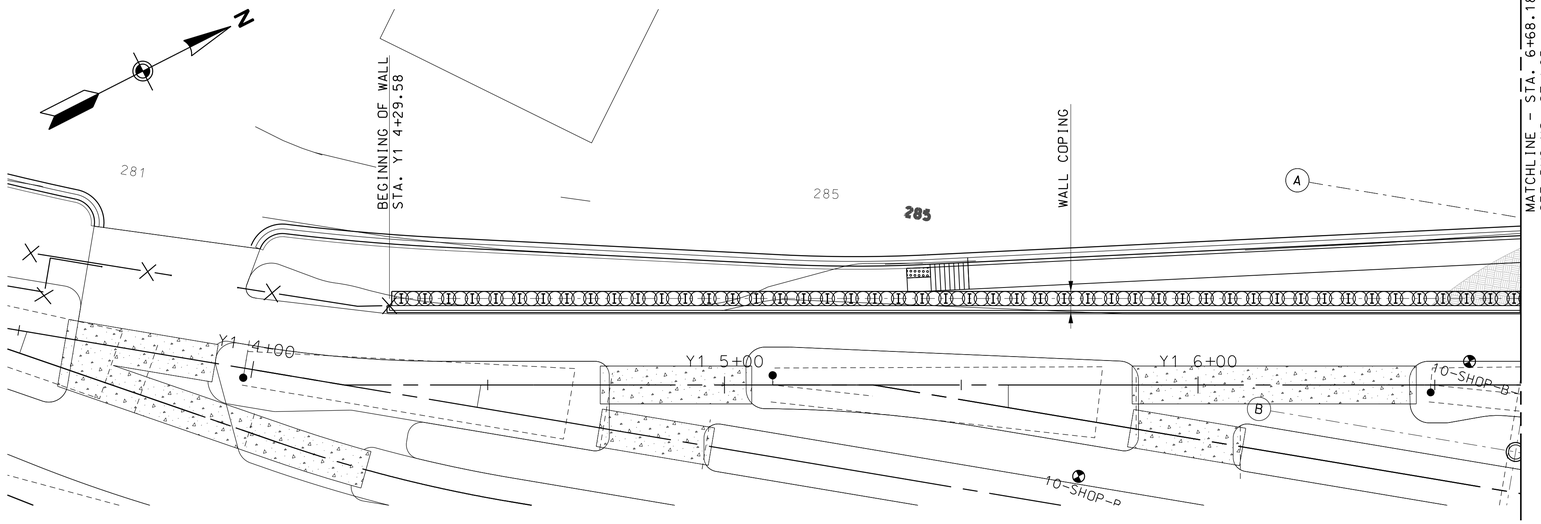
11/15/2013

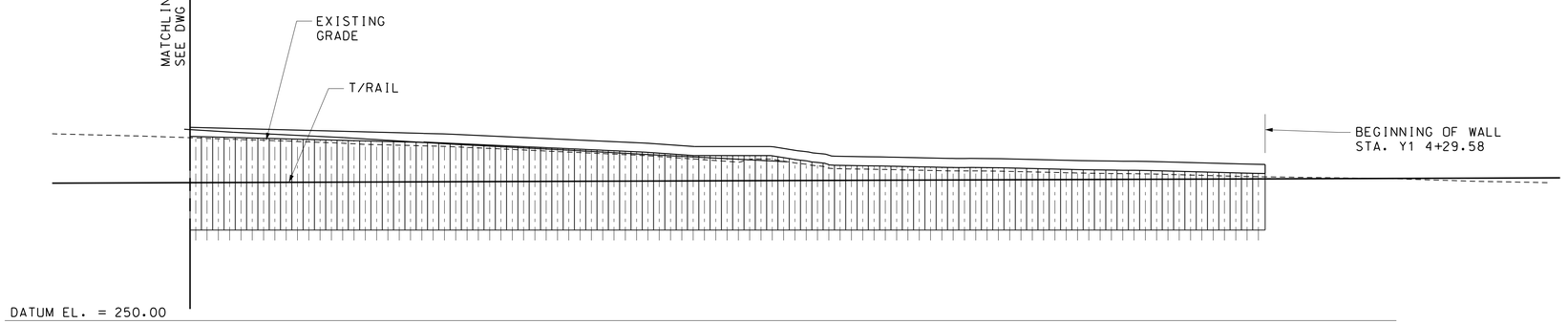


PLAN

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"



RETAINING WALL - ELEVATION (FROM BROOKVILLE ROAD)

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
RETAINING WALL GENERAL PLAN & ELEVATION

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L04

SHEET NO. 94 OF 443

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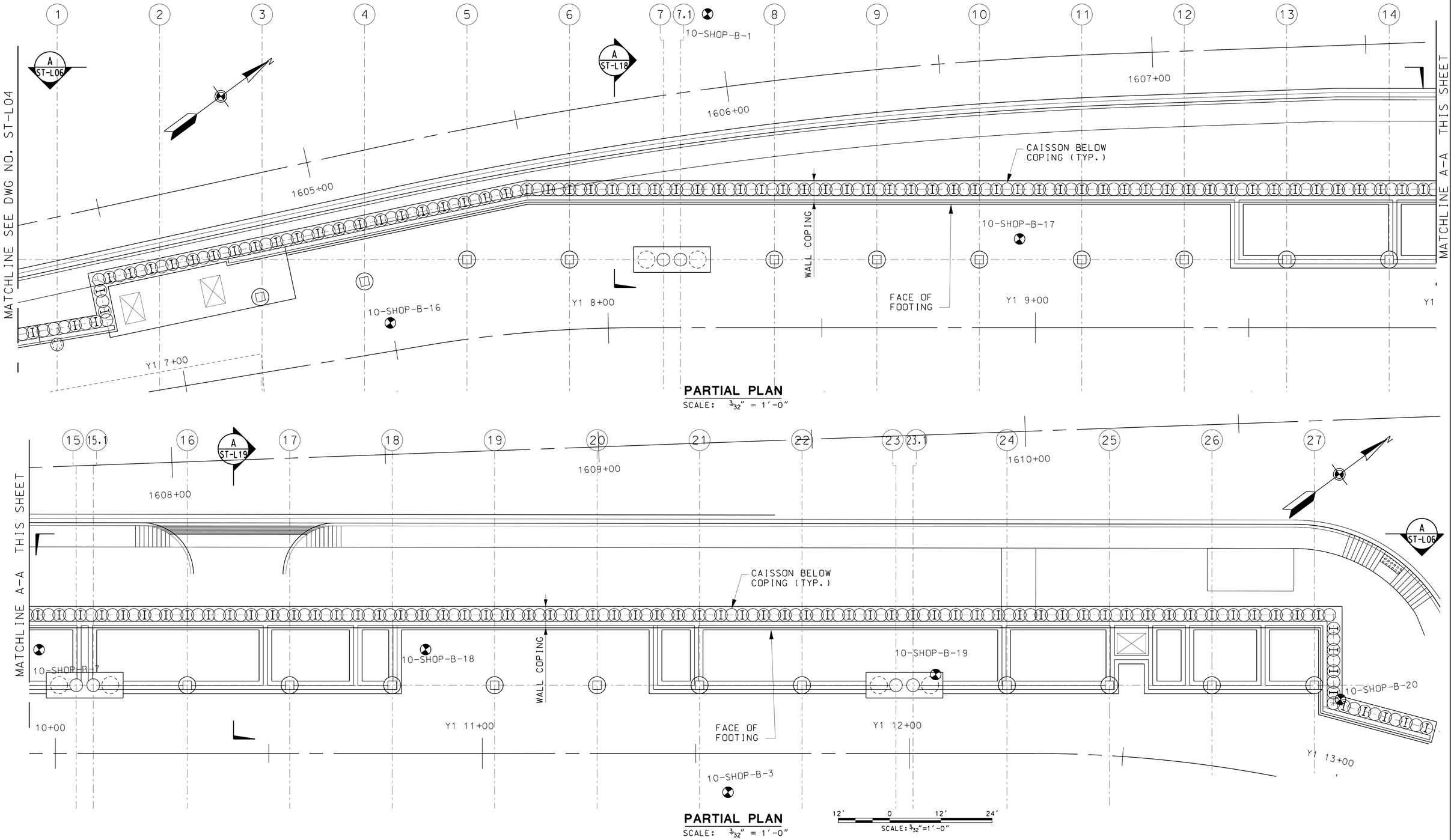
11/15/2013



PARTIAL PLAN
SCALE: $^{3}/_{32}$" = 1'-0"

PARTIAL PLAN
SCALE: $^{3}/_{32}$" = 1'-0"

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DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
RETAINING WALL GENERAL PLAN

DATE: DECEMBER 2013 SCALE: 3/32" = 1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L05
SHEET NO. 95 OF 443

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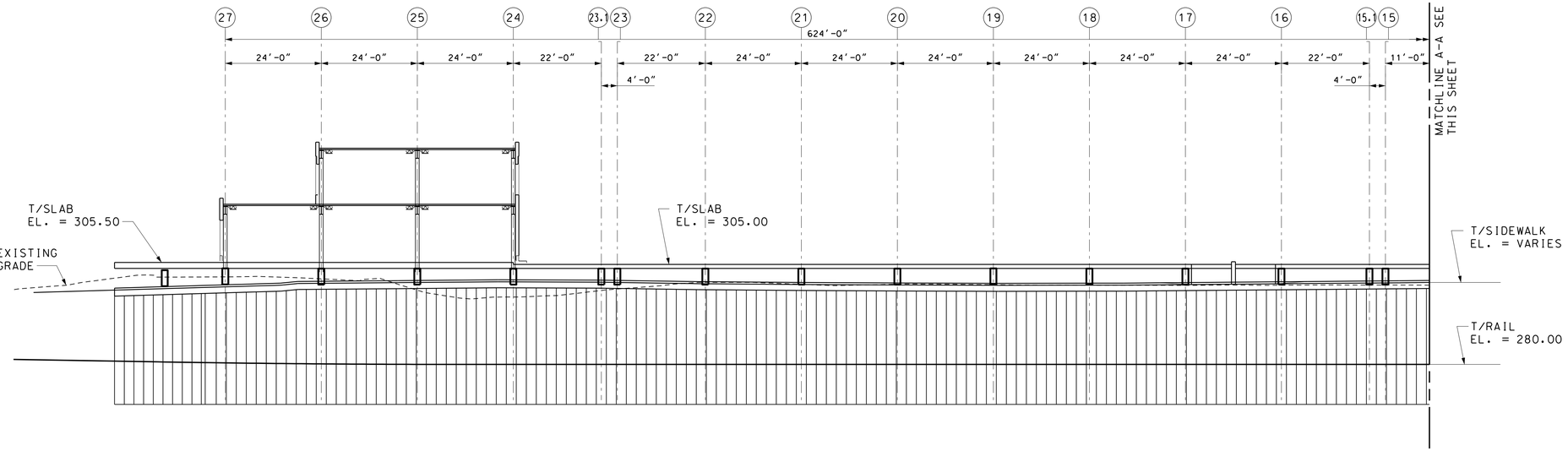
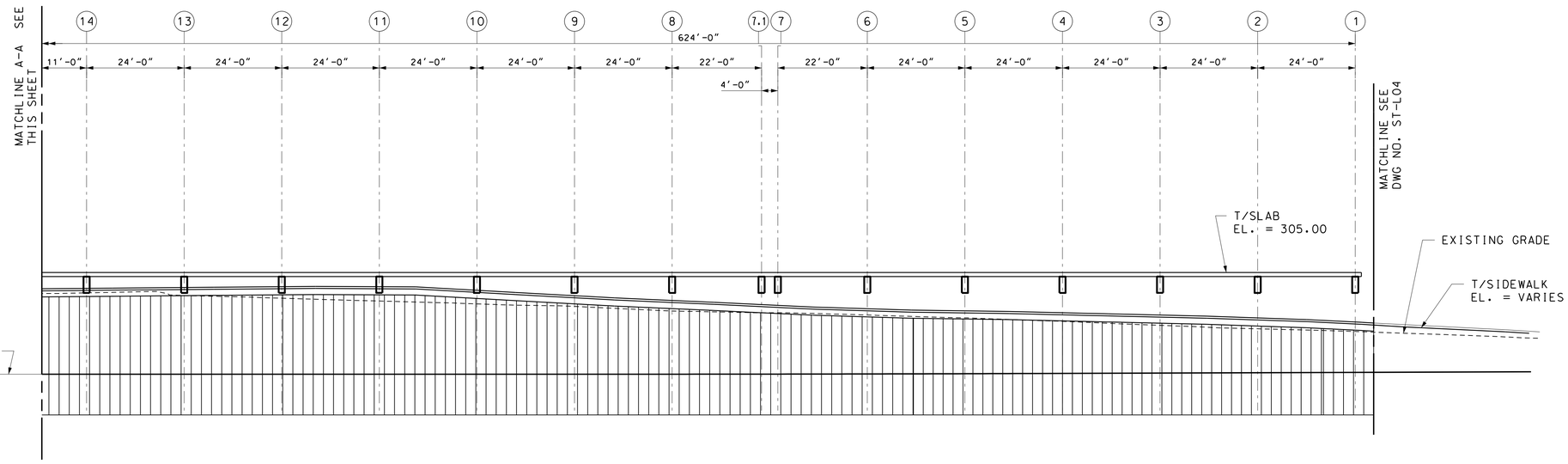
12/2/2013



A ST-L06 **RETAINING WALL - ELEVATION (FROM BROOKVILLE ROAD)**

SCALE: 1/16" = 1'-0"
REF: ST-L05

16' 0 16' 32'
SCALE: 1/16"=1'-0"



A ST-L06 **RETAINING WALL - ELEVATION (FROM BROOKVILLE ROAD)**

SCALE: 1/16" = 1'-0"
REF: ST-L05

16' 0 16' 32'
SCALE: 1/16"=1'-0"

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DESIGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
RETAINING WALL ELEVATION

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L06
SHEET NO. 96 OF 443

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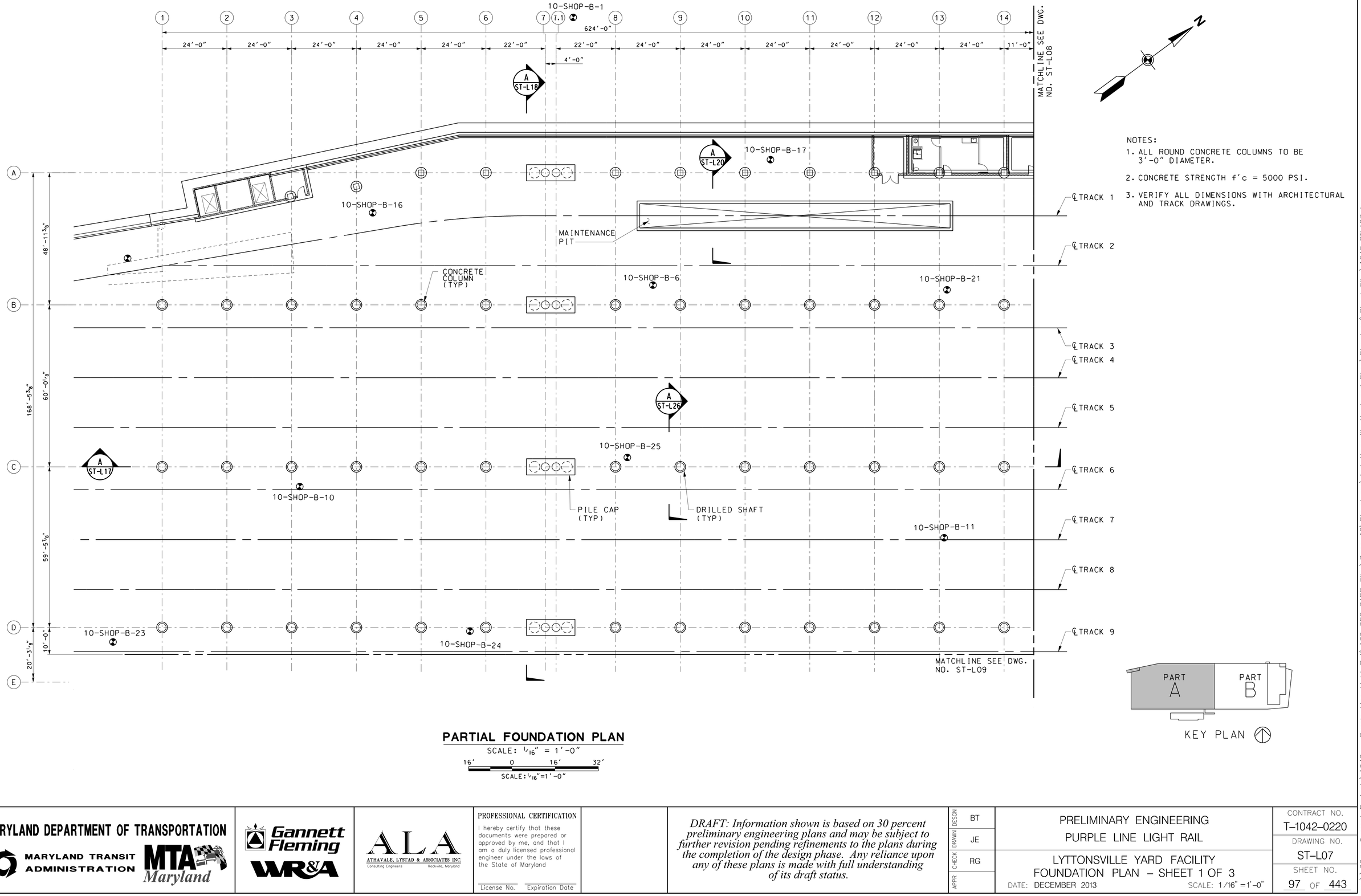
11/15/2013



NOTES:

1. ALL ROUND CONCRETE COLUMNS TO BE 3'-0" DIAMETER.
2. CONCRETE STRENGTH f'c = 5000 PSI.
3. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND TRACK DRAWINGS.

KEY PLAN

PARTIAL FOUNDATION PLAN

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

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APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

FOUNDATION PLAN – SHEET 1 OF 3

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L07

SHEET NO. 97 OF 443

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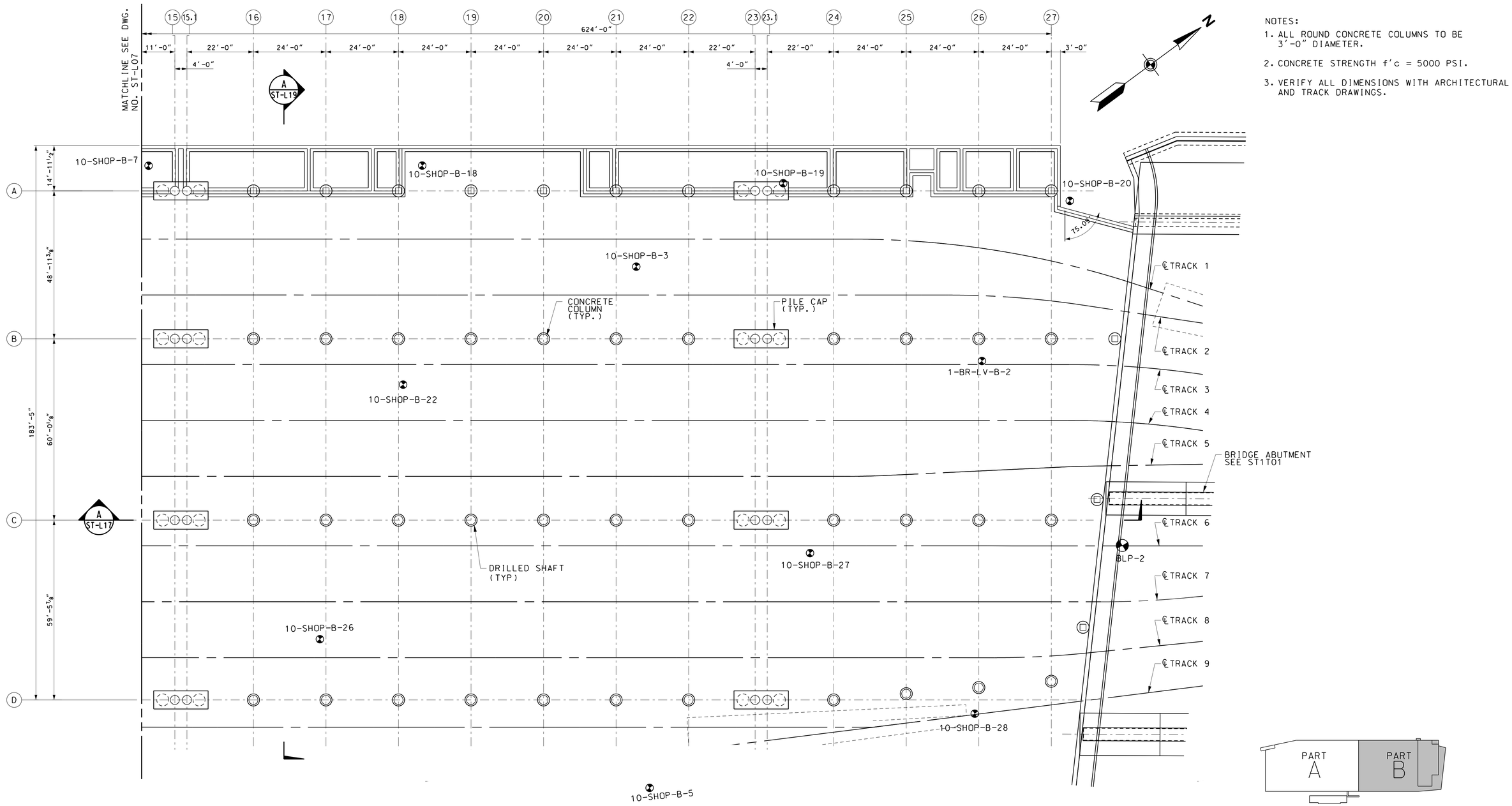
12/2/2013



NOTES:

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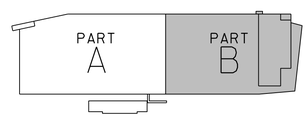

KEY PLAN

PARTIAL COLUMN LAYOUT PLAN

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

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DESIGN	BT
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
FOUNDATION PLAN – SHEET 2 OF 3

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L08
SHEET NO. 98 OF 443

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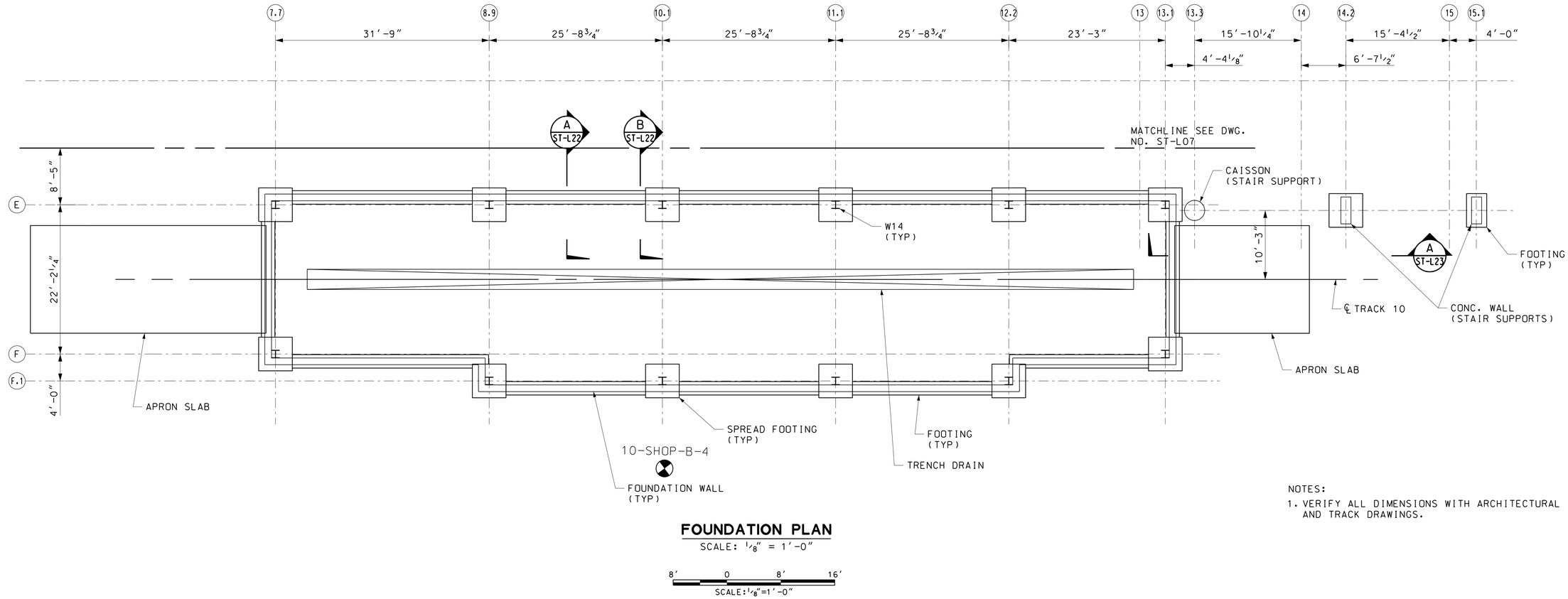
11/15/2013



FOUNDATION PLAN

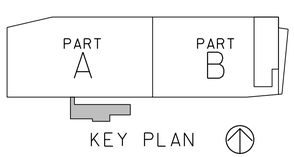
SCALE: 1/8" = 1'-0"

8' 0 8' 16'

SCALE: 1/8"=1'-0"

NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND TRACK DRAWINGS.



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PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

FOUNDATION PLAN – SHEET 3 OF 3

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L09

SHEET NO. 99 OF 443

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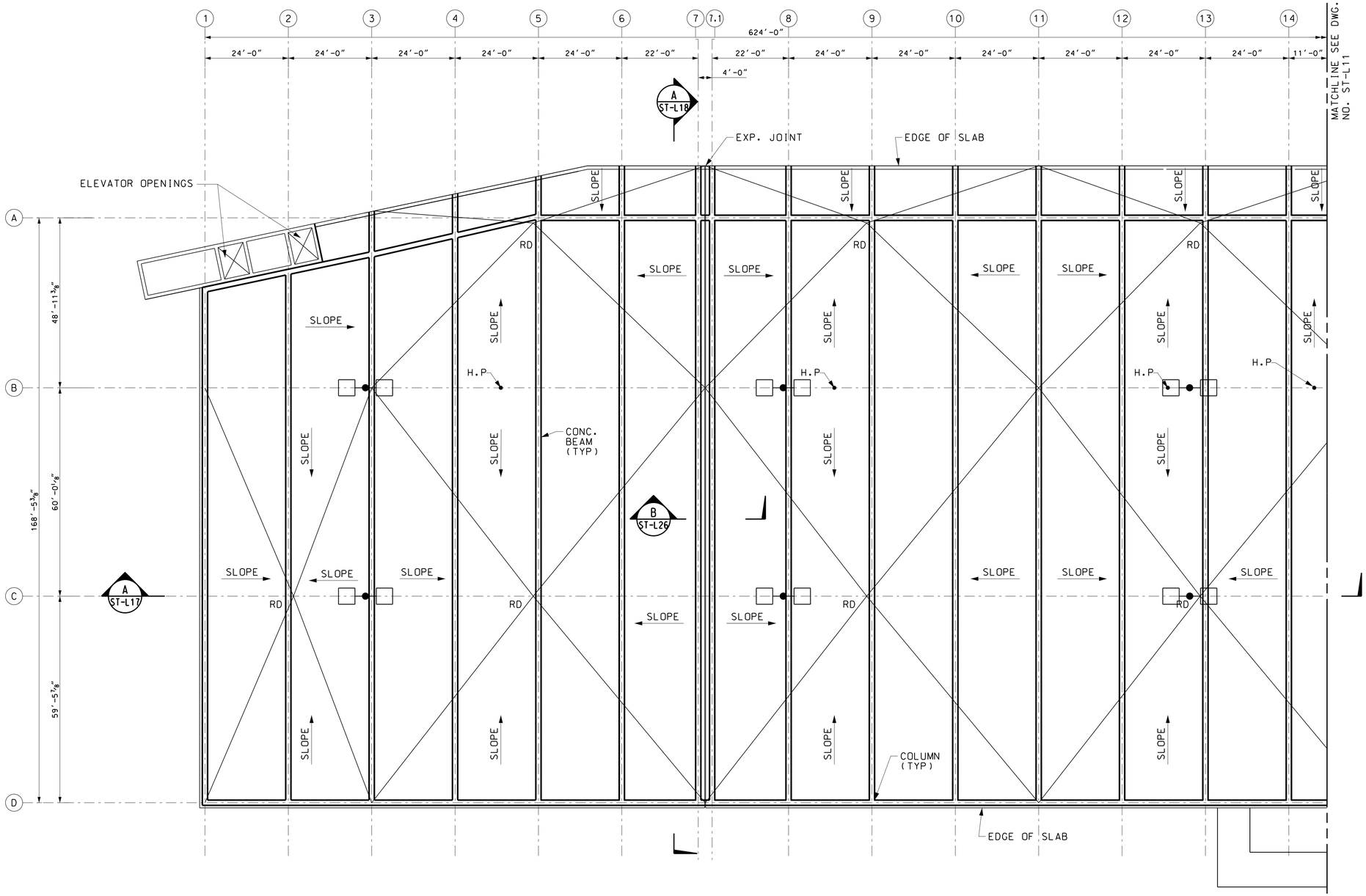


PARTIAL PLAN - DECK LEVEL (ELEV. 350.00 LOW POINT)

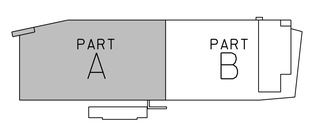
SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

NOTES:

1. FLOOR TO BE 12" THICK REINFORCED CONCRETE SLAB.
2. ALL LONGITUDINAL BEAMS TO BE POST TENSIONED CONCRETE.
3. ALL TRANSVERSE BEAMS TO BE REINFORCED CONCRETE.
4. COMPRESSIVE STRENGTH OF CONCRETE f'c = 5000 PSI.
5. DESIGN LIVE LOAD = 40 PSF FOR THE DECK AREA. SEE DESIGN CRITERIA FOR DESIGN LIVE LOAD OF THE ADMIN. BUILDING.
6. SLOPE AT ANY POINT ON THE DECK TO THE ROOF DRAIN (RD) TO BE MINIMUM 1 1/2%.



KEY PLAN

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APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
FRAMING AND SLAB PLAN – SHEET 1 OF 2

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L10
SHEET NO. 100 OF 443

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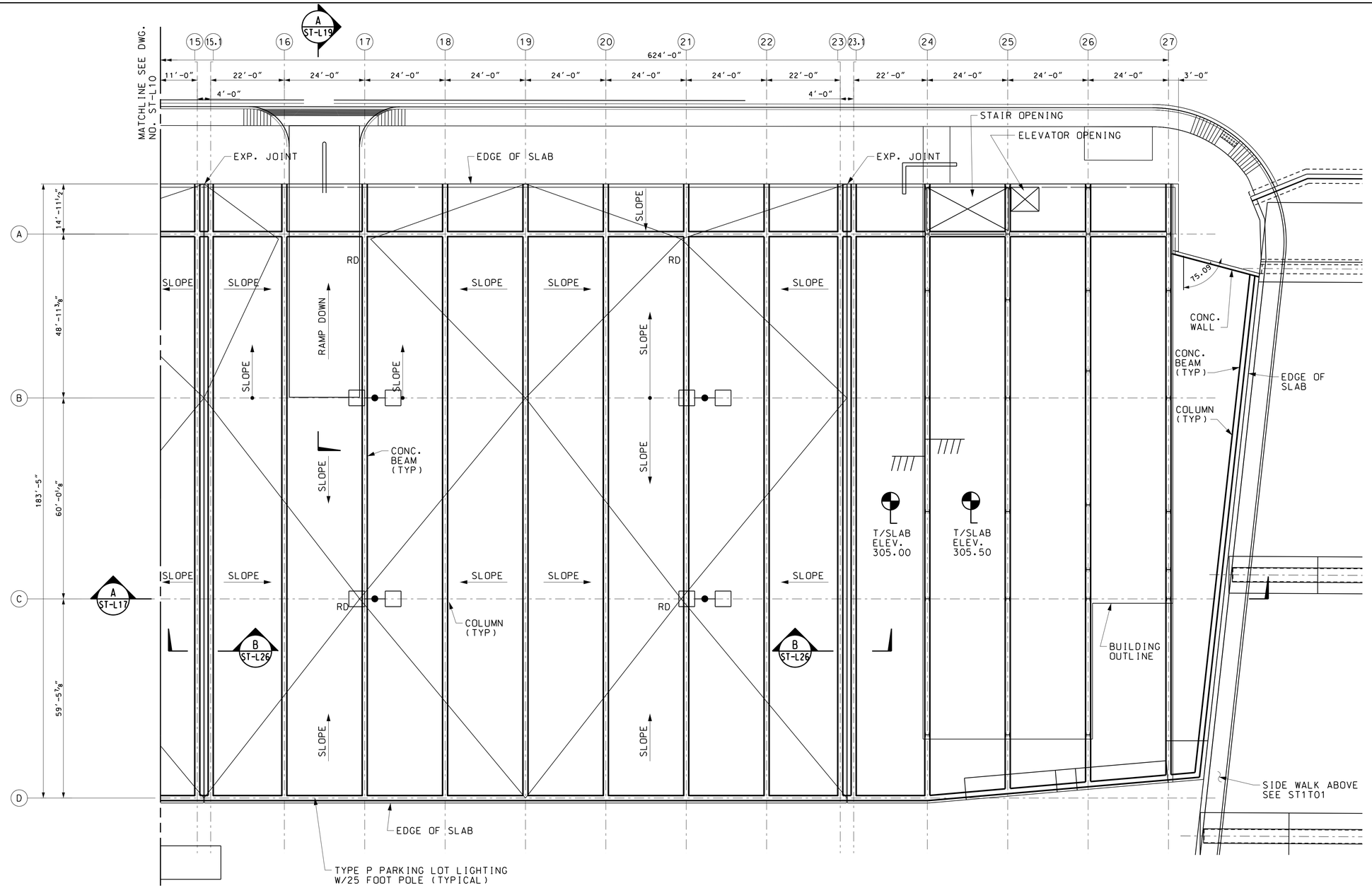
11/15/2013



NOTES:

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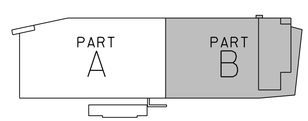
2. ALL LONGITUDINAL BEAMS TO BE POST TENSIONED CONCRETE.
3. ALL TRANSVERSE BEAMS TO BE REINFORCED CONCRETE.
4. COMPRESSIVE STRENGTH OF CONCRETE f'c = 5000 PSI.
5. DESIGN LIVE LOAD = 40 PSF FOR THE DECK AREA. SEE DESIGN CRITERIA FOR DESIGN LIVE LOAD OF THE ADMIN. BUILDING.
6. SLOPE AT ANY POINT ON THE DECK TO THE ROOF DRAIN (RD) TO BE MINIMUM 1½%.



KEY PLAN

PARTIAL PLAN - DECK LEVEL

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

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DESIGN	BT
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CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
FRAMING AND SLAB PLAN – SHEET 2 OF 2

DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T–1042–0220
DRAWING NO. ST–L11
SHEET NO. 101 OF 443

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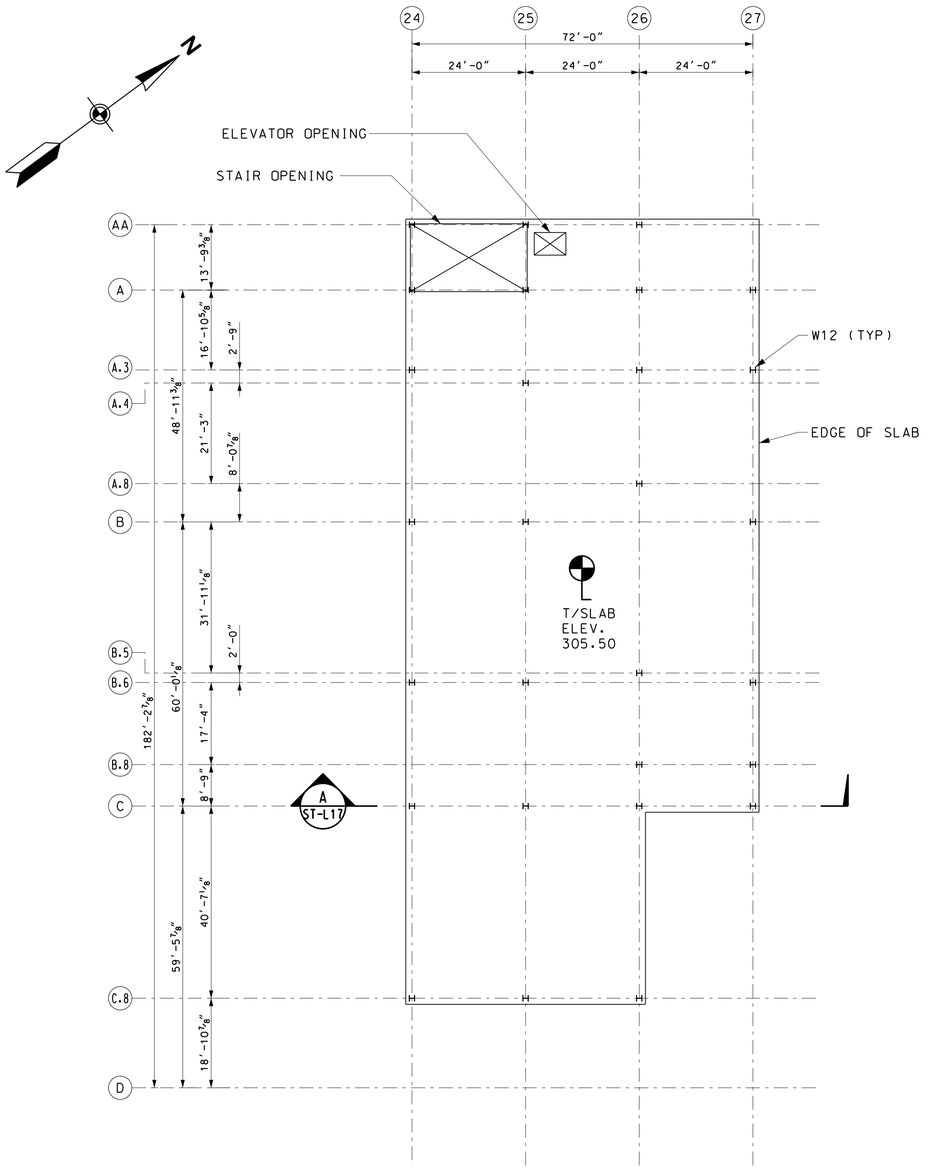
11/15/2013

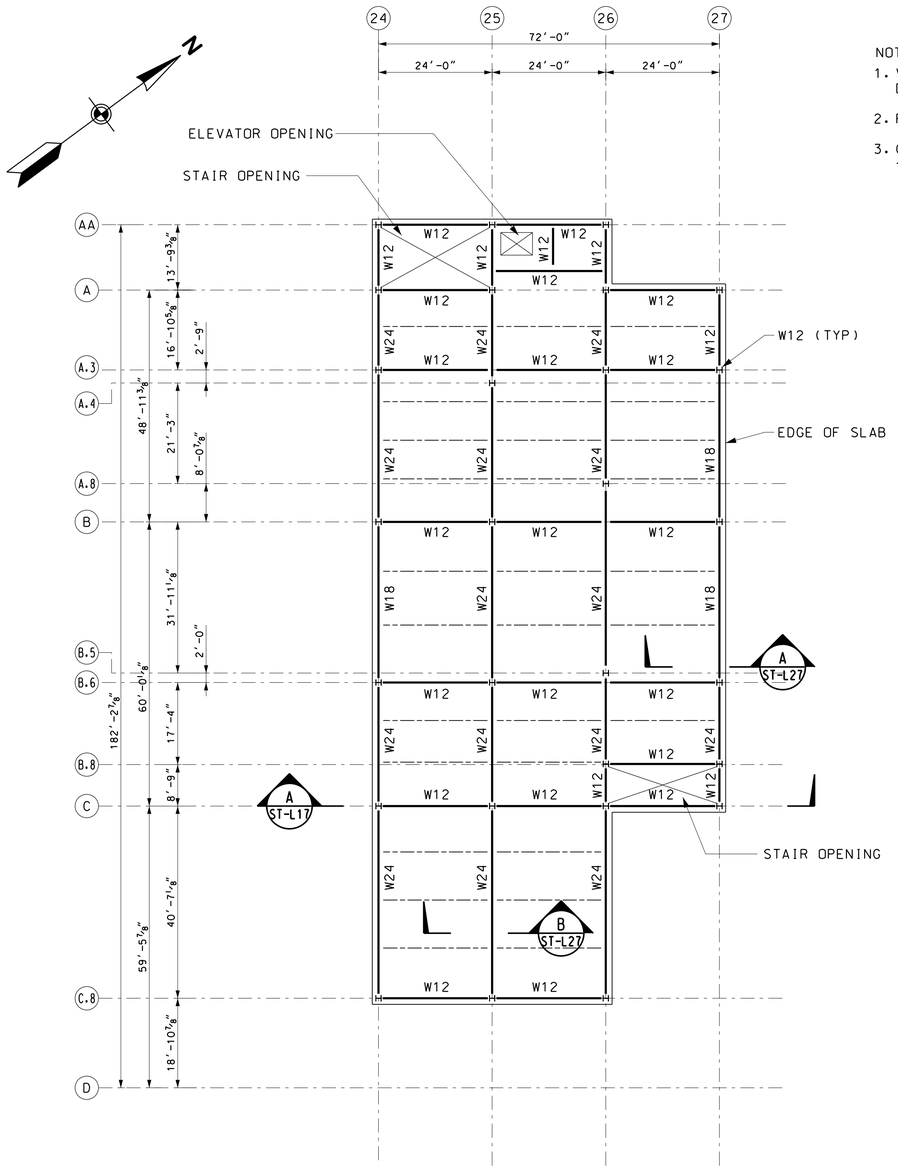


DECK LEVEL - COLUMN LAYOUT (ELEV. 350.00)

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"



2ND FLOOR FRAMING PLAN

SCALE: 1/16" = 1'-0"

16' 0 16' 32'

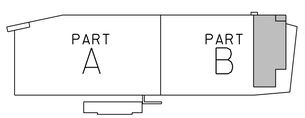
SCALE: 1/16"=1'-0"

NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. FLOOR DECK TO BE COMPOSITE.
3. CONCRETE TOPPING ON METAL DECK f'c = 3500 PSI.

LEGEND:

-------- OPEN WEB STEEL JOIST



KEY PLAN

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

WR&A

ALA
ATHAVALE, LYSTAD & ASSOCIATES INC.
Consulting Engineers Rockville, Maryland

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DESIGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
COLUMN LAYOUT & 2ND FLOOR FRAMING PLAN

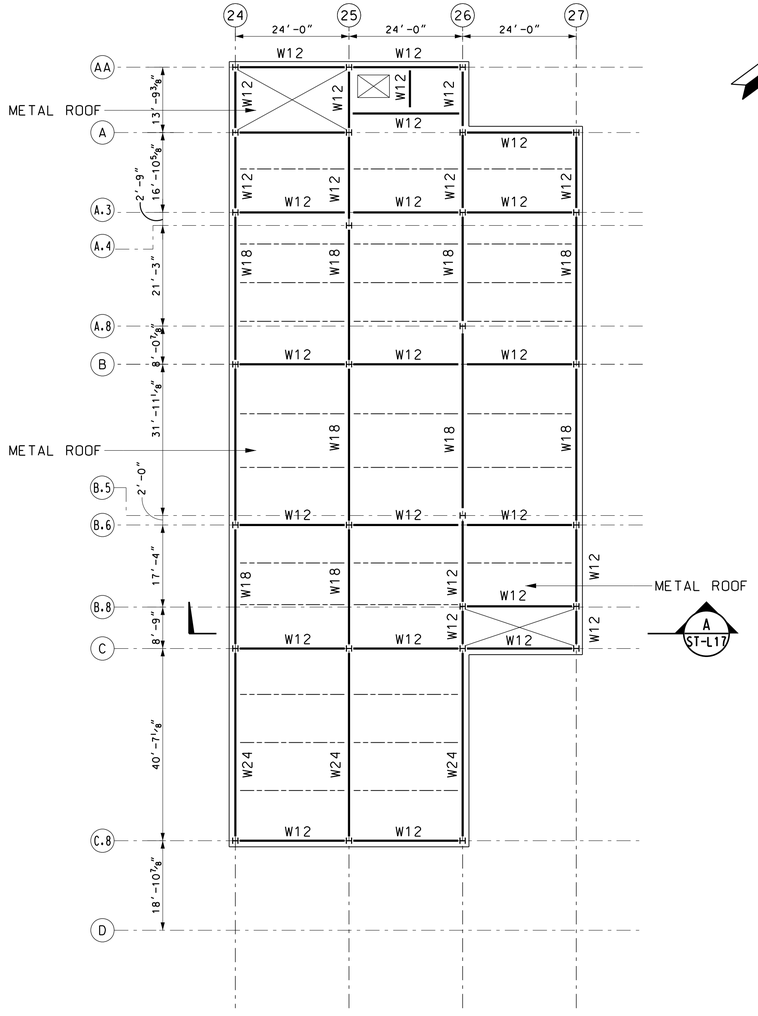
DATE: DECEMBER 2013 SCALE: 1/16" = 1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L12

SHEET NO. 102 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA12.dgn
11/15/2013



OFFICE ROOF FRAMING PLAN

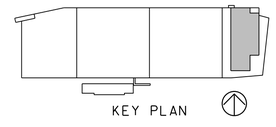
SCALE: 1/16" = 1'-0"

16' 0 16' 32'

SCALE: 1/16"=1'-0"

NOTE:
1-VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

LEGEND:
—·—·— OPEN WEB STEEL JOIST



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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

ALA
ATHAVALE, LYSTAD & ASSOCIATES INC.
Consulting Engineers Rockville, Maryland

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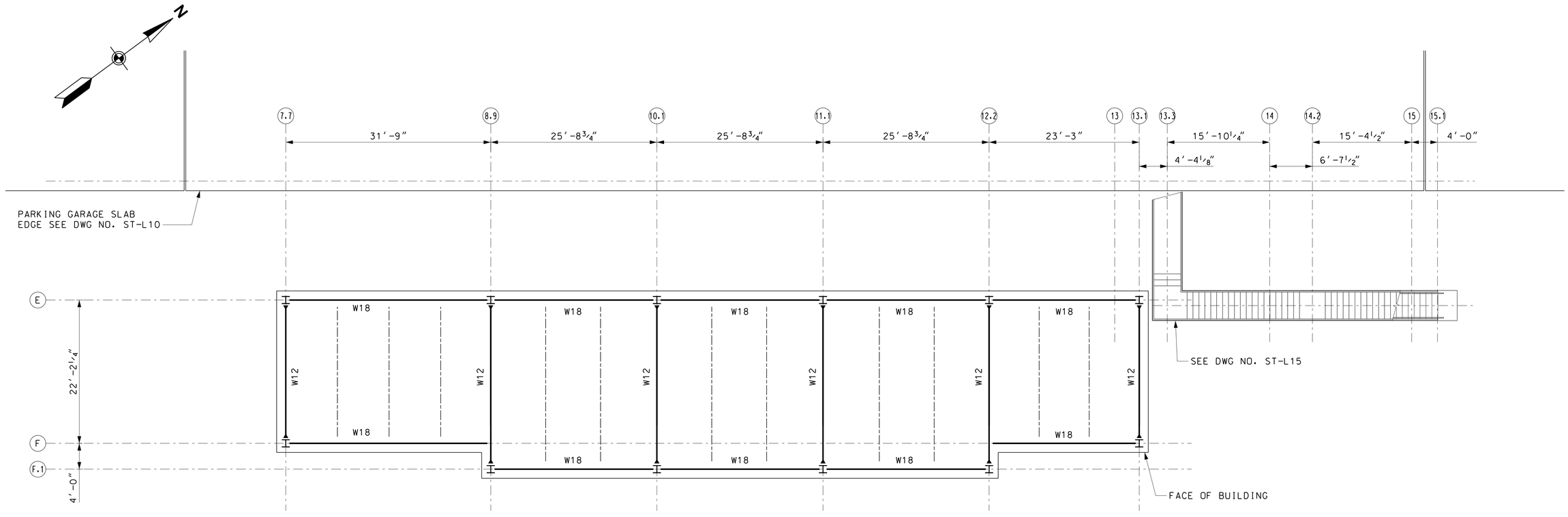
DESIGN BT
DRAWN JE
CHECK RG
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE ROOF FRAMING PLAN
DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L13
SHEET NO. 103 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA13.dgn
11/15/2013



ROOF FRAMING PLAN

SCALE: ⅛″ = 1′-0″

8′ 0 8′ 16′

SCALE: ⅛″=1′-0″

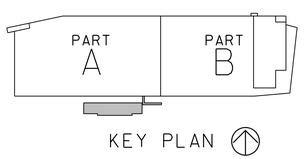
NOTES:

1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. THE ROOF DECK SHALL CONSIST OF GALVANIZED METAL.

LEGEND:

------ OPEN WEB STEEL JOIST

MOMENT CONNECTION



KEY PLAN

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming — WR&A

ALA — ATHAVALE, LYSTAD & ASSOCIATES INC. Consulting Engineers, Rockville, Maryland

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DESIGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING ROOF FRAMING PLAN

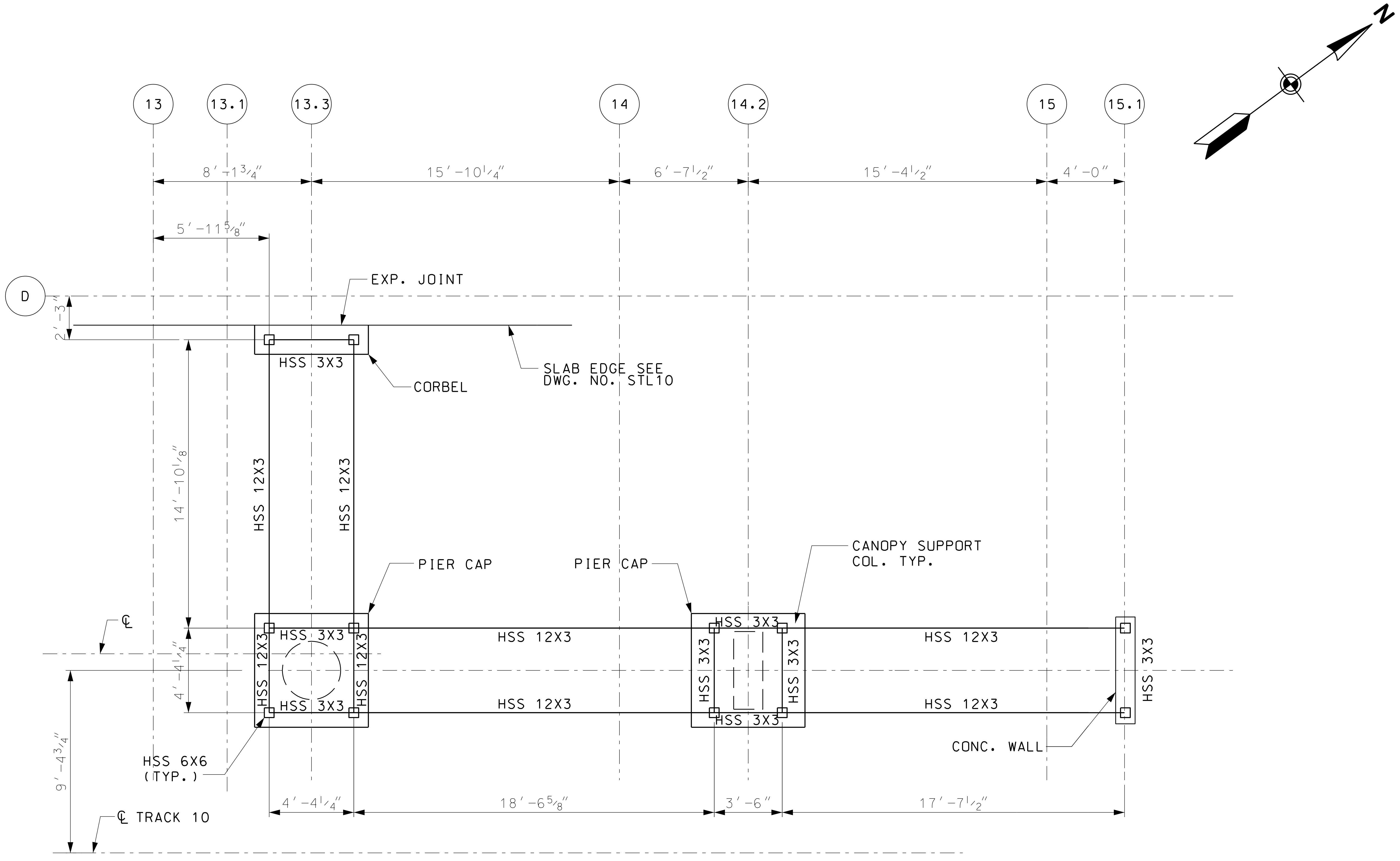
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L14

SHEET NO. 104 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA14.dgn
11/15/2013

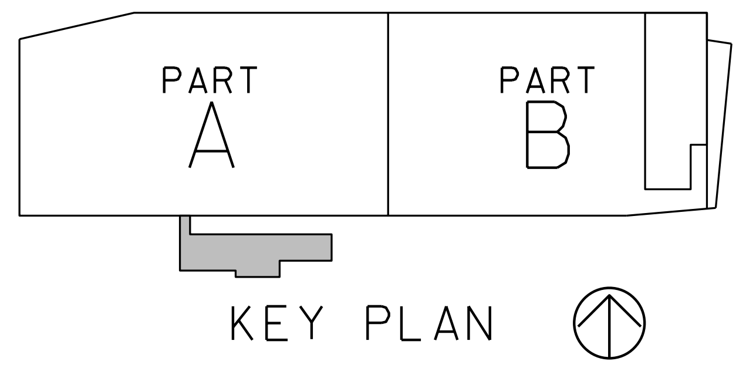


STAIR S4 FRAMING PLAN

SCALE: 1/4" = 1'-0"

4' 0 4' 8'
SCALE: 1/4"=1'-0"

NOTES:
1. VERIFY ALL DIMENSIONS WITH ARCHITECTURAL AND TRACK DRAWINGS.



MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION

MTA Maryland

Gannett Fleming

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Consulting Engineers Rockville, Maryland

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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

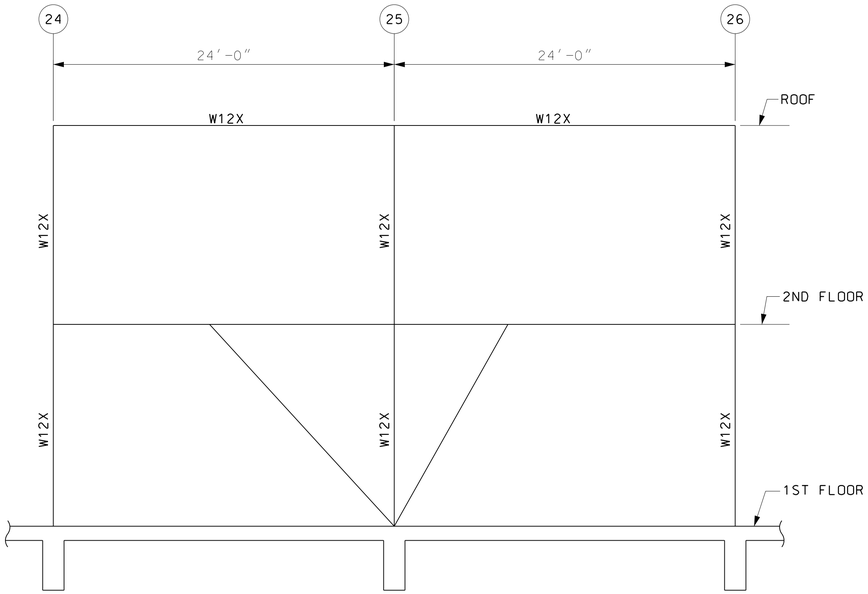
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
STAIR S4 FRAMING PLAN

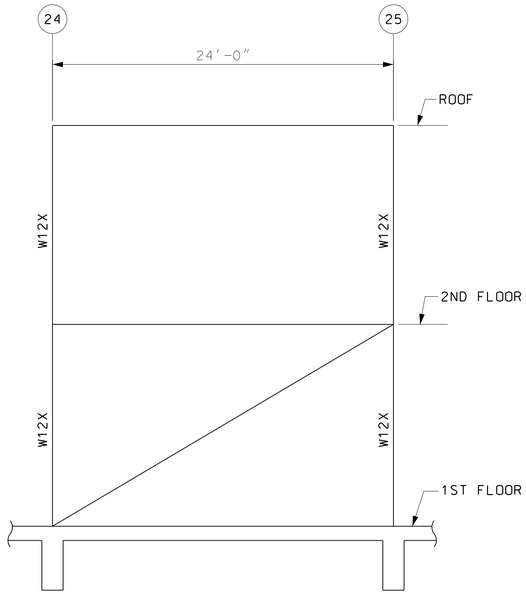
DATE: DECEMBER 2013 SCALE: 1/4" =1'-0"

CONTRACT NO.
T-1042-0220
DRAWING NO.
ST-L15
SHEET NO.
105 OF 443

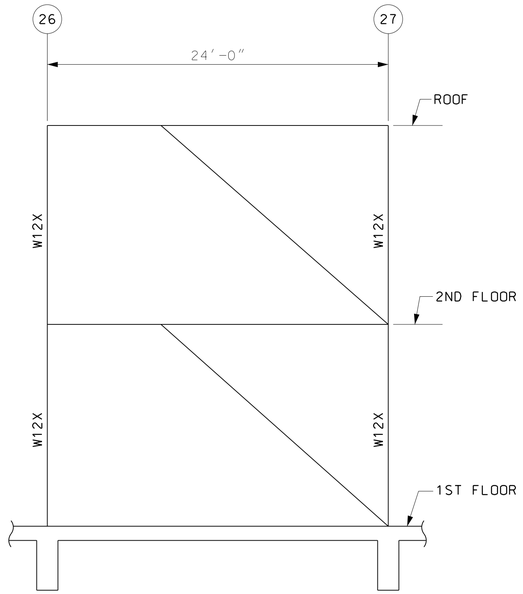
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA15.dgn
11/15/2013



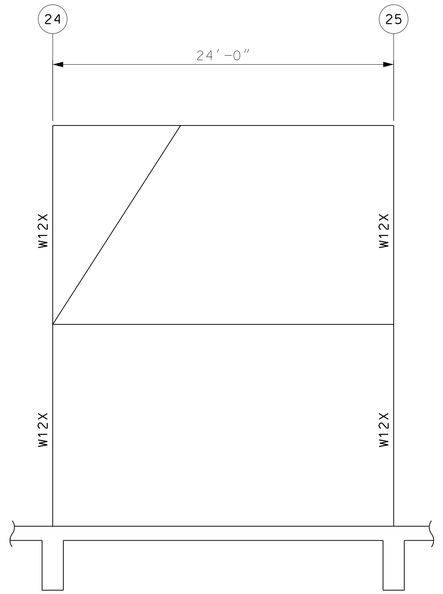
AT COLUMN LINE "AA"



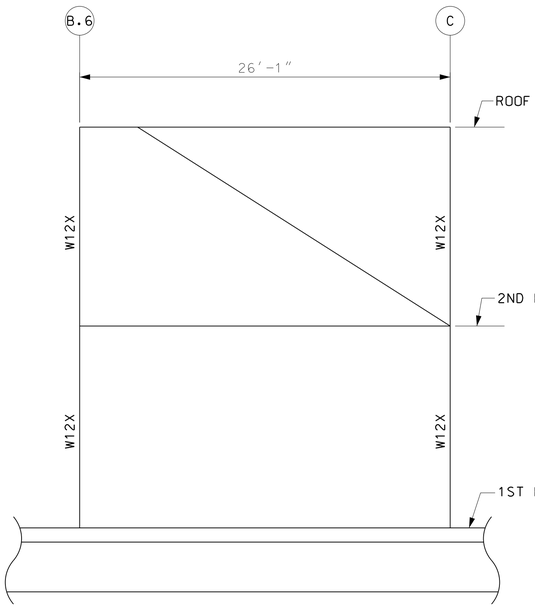
AT COLUMN LINE "A"



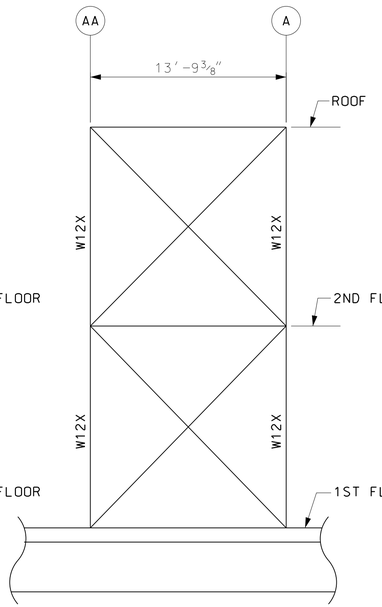
AT COLUMN LINE "C"



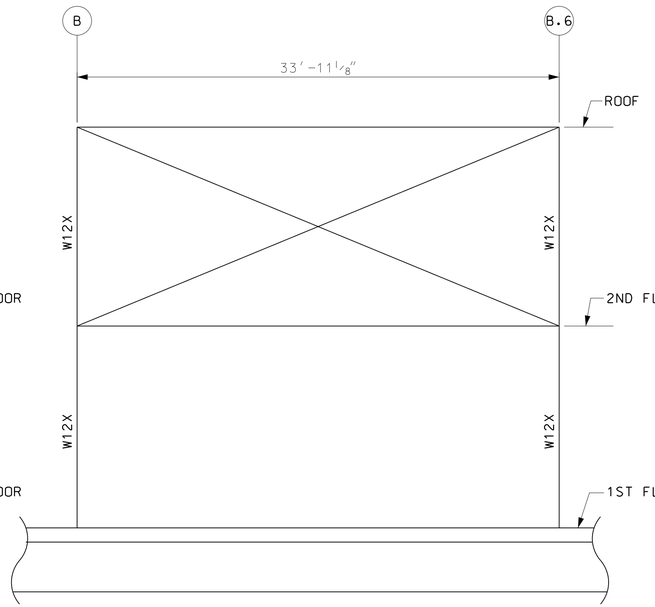
AT COLUMN LINE "C"



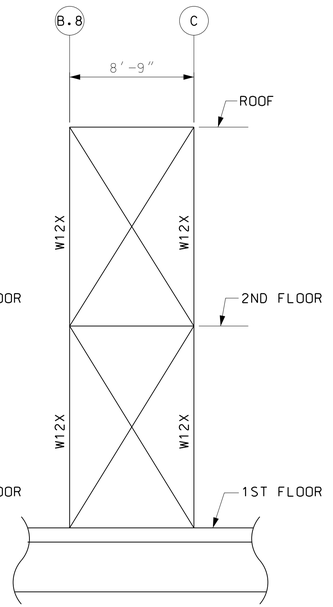
AT COLUMN LINE "24"



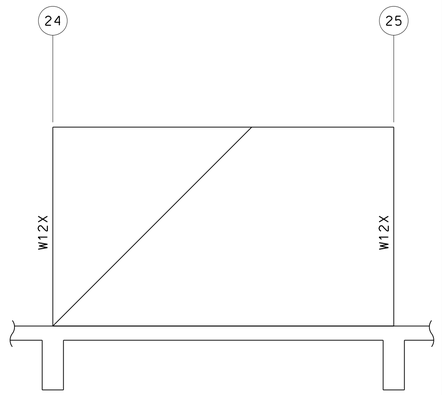
AT COLUMN LINE "25"



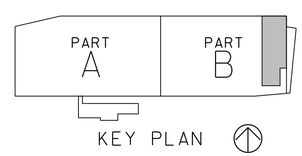
AT COLUMN LINE "25"



AT COLUMN LINE "27"



AT COLUMN LINE "C.8"



6' 0 6' 12'

SCALE: 3/16"=1'-0"

MARYLAND DEPARTMENT OF TRANSPORTATION

MARYLAND TRANSIT ADMINISTRATION MTA Maryland

Gannett Fleming WR&A

ALA ATHAVALE, LYSTAD & ASSOCIATES INC. Consulting Engineers Rockville, Maryland

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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
BRACE ELEVATIONS

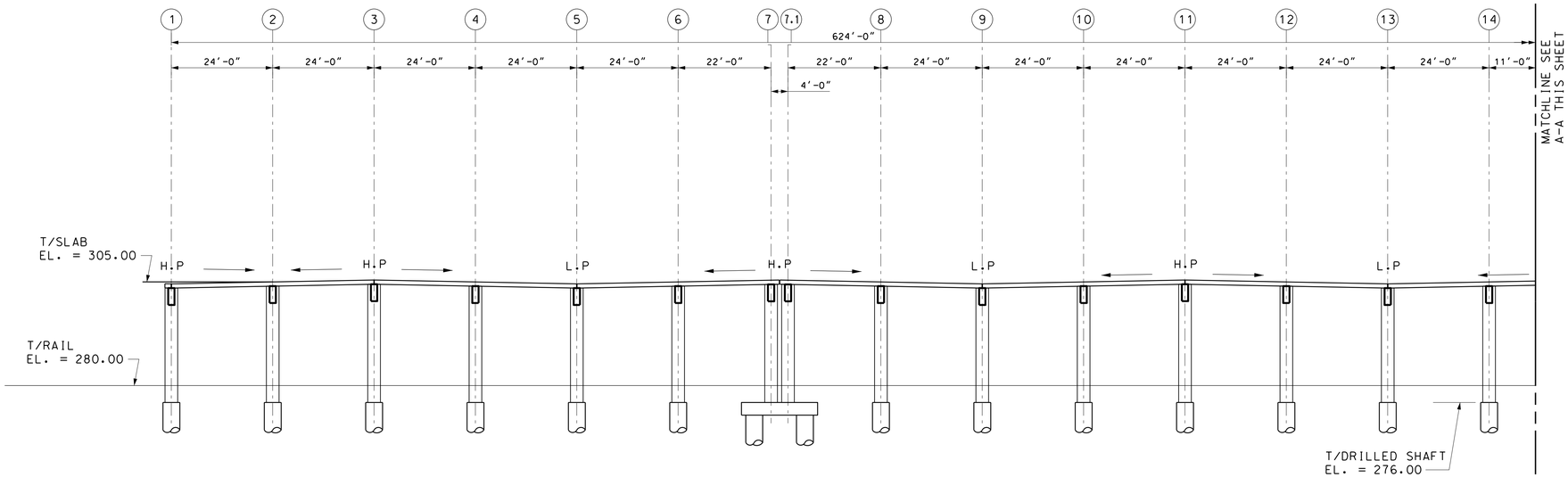
DATE: DECEMBER 2013 SCALE: 3/16" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. ST-L16

SHEET NO. 106 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA16.dgn
11/15/2013



A ST-L17

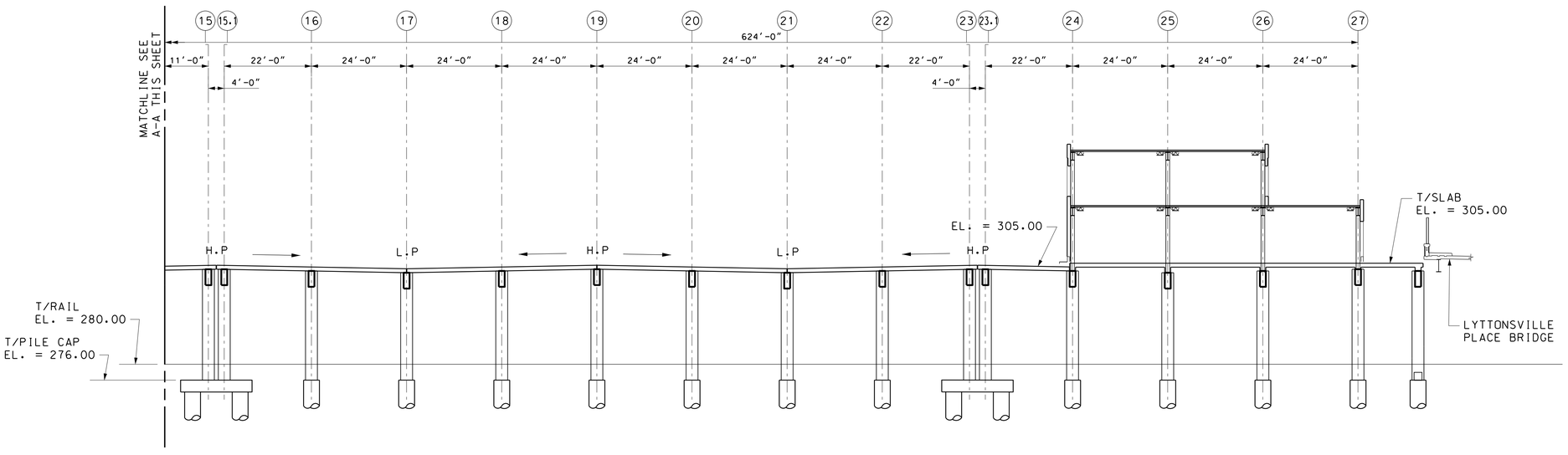
LONGITUDINAL SECTION AT COL. "C"

SCALE: 1/16" = 1'-0"

REF: ST-L07 ST-L10
ST-L08 ST-L12

16' 0 16' 32'

SCALE: 1/16"=1'-0"



A ST-L17

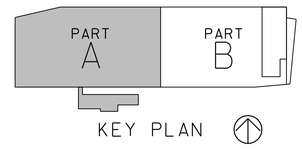
LONGITUDINAL SECTION AT COL. "C"

SCALE: 1/16" = 1'-0"

REF: ST-L08 ST-L12
ST-L11 ST-L13

16' 0 16' 32'

SCALE: 1/16"=1'-0"



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MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

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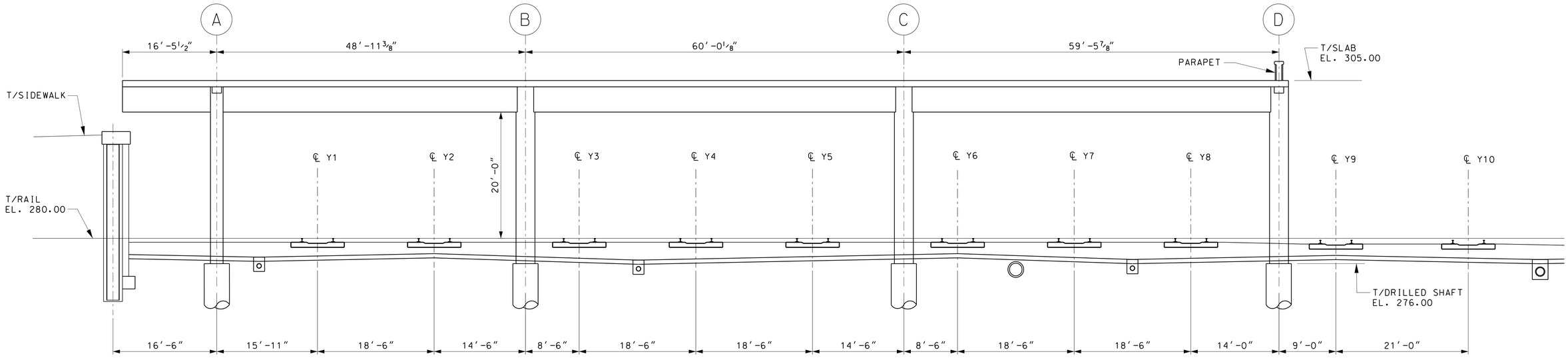
DESIGN BT
DRAWN JE
CHECK RG
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
LONGITUDINAL SECTION ALONG COLUMN "C"
DATE: DECEMBER 2013 SCALE: 1/16" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L17
SHEET NO. 107 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA17.dgn
11/15/2013



DATUM EL. = 250.00

A / ST-L18 SECTION AT STA. Y9 16+75

SCALE: ⅛″ = 1′-0″

REF: ST-L03
ST-L05
ST-L07
ST-L10

8′ 0 8′ 16′

SCALE: ⅛″=1′-0″

MARYLAND DEPARTMENT OF TRANSPORTATION
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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

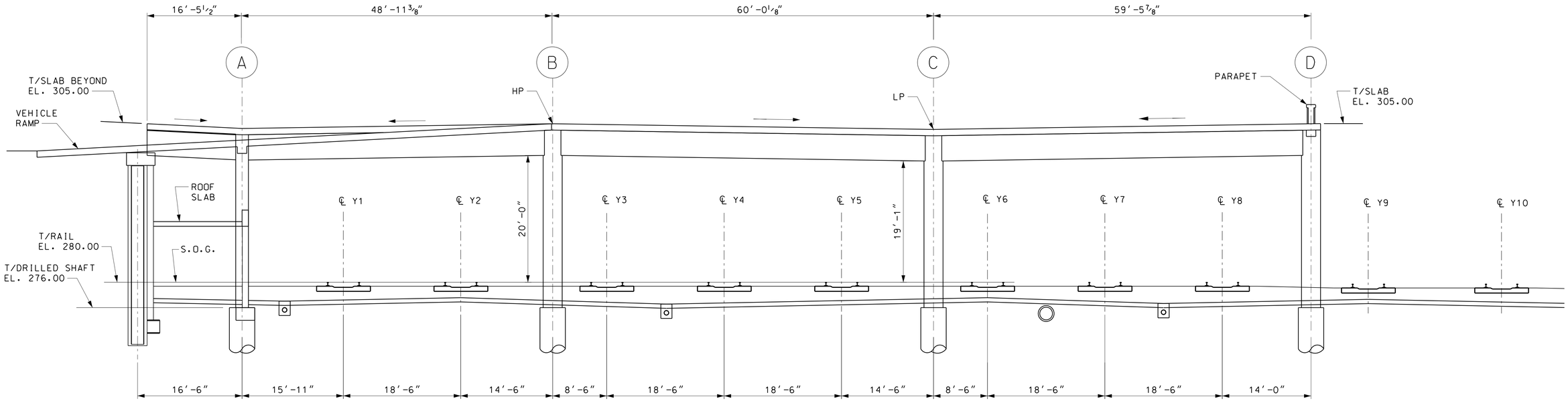
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CROSS SECTION OF PARKING GARAGE

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L18
SHEET NO. 108 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA18.dgn
11/15/2013



DATUM EL. = 250.00

A / ST-L19 **SECTION AT STA. Y9 19+10**

SCALE: ⅛″ = 1′-0″

REF: ST-L03
ST-L05
ST-L08
ST-L11

8′ 0 8′ 16′

SCALE: ⅛″=1′-0″

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
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DESGN	BT
DRAWN	JE
CHECK	RG
APPR	

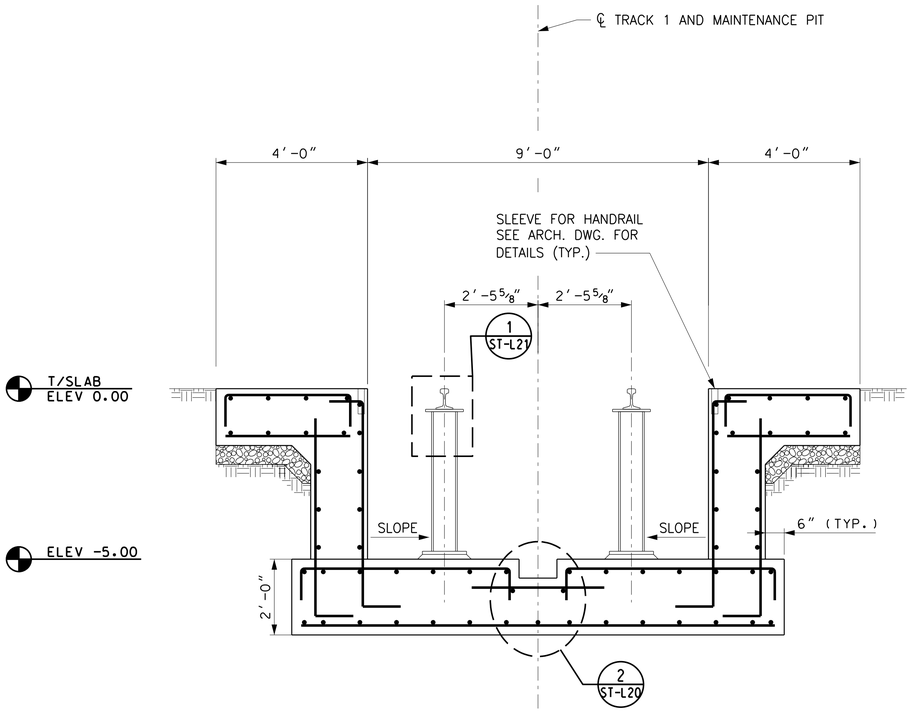
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
CROSS SECTION OF PARKING GARAGE

DATE: DECEMBER 2013 SCALE: ⅛" = 1'-0"

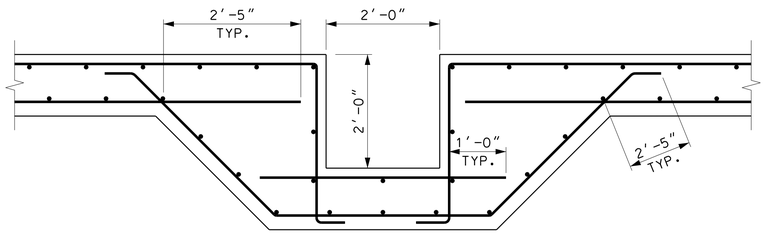
CONTRACT NO. T-1042-0220
DRAWING NO. ST-L19
SHEET NO. 109 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Structural\Sheet Files\1042pSTLA19.dgn
11/15/2013



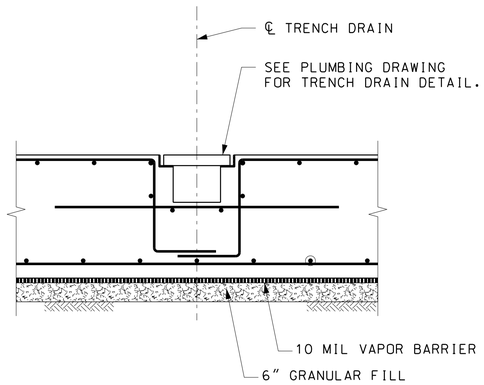
A ST-L20 **SECTION**
SCALE: ½″ = 1′-0″
REF: ST-L03
ST-L07

2′ 0 2′ 4′
SCALE: ½″=1′-0″



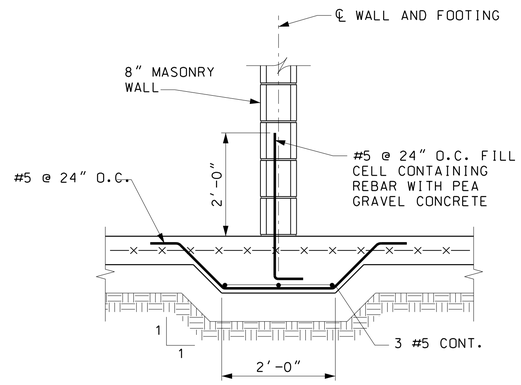
1 ST-L20 **SUMP PIT REINFORCEMENT**
SCALE: ¾″ = 1′-0″
REF: ST-L20

2′ 0 2′ 4′
SCALE: ¾″=1′-0″



2 ST-L20 **DETAIL AT TRENCH DRAIN**
SCALE: ¾″ = 1′-0″
REF: ST-L20

2′ 0 2′ 4′
SCALE: ¾″=1′-0″



TYPICAL THICKENED SLAB AT CMU PARTITION

B ST-L20
SCALE: ¾″ = 1′-0″
REF: ST-L20

2′ 0 2′ 4′
SCALE: ¾″=1′-0″

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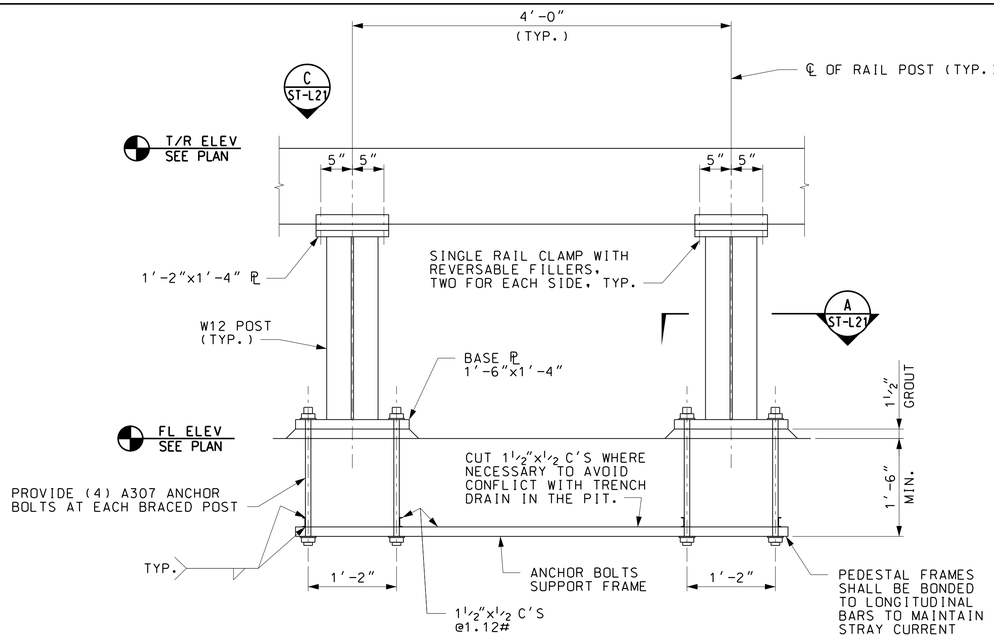
DESIGN	BT
DRAWN	JE
CHECK	RG
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
SECTIONS AND DETAILS

DATE: DECEMBER 2013 SCALE: AS SHOWN

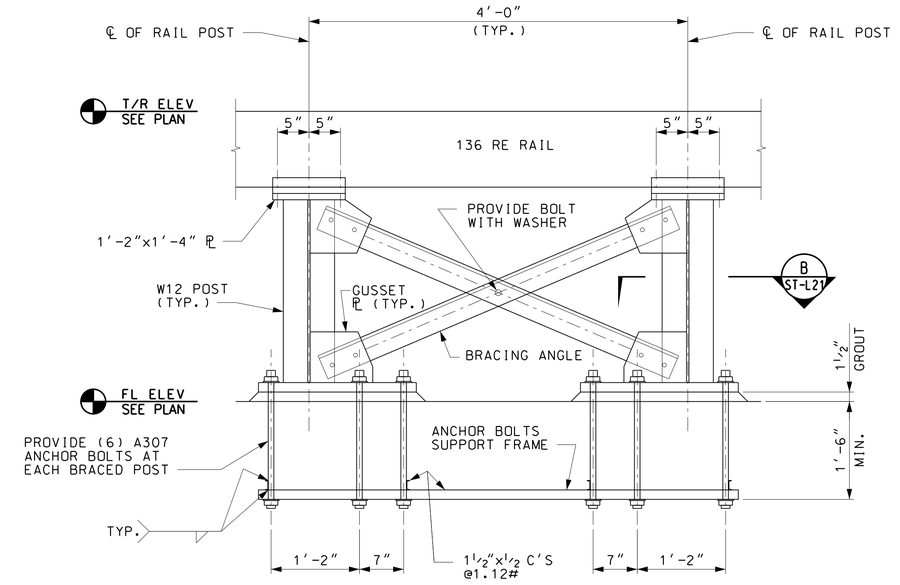
CONTRACT NO. T-1042-0220
DRAWING NO. ST-L20
SHEET NO. 110 OF 443



1 ST-L21 TYPICAL RAIL POST DETAIL

SCALE: 1" = 1'-0"
REF: ST-L20

1' 0 1' 2'
SCALE: 1"=1'-0"

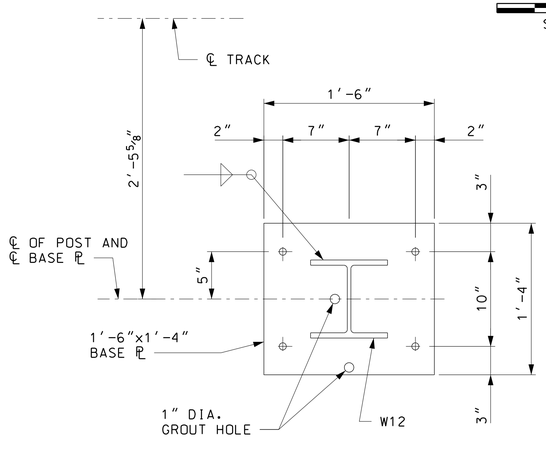


NOTE: PROVIDE LATERAL BRACING EVERY 80'.

2 ST-L21 TYPICAL RAIL POST CROSS BRACING DETAIL

SCALE: 1" = 1'-0"
REF: ST-L21

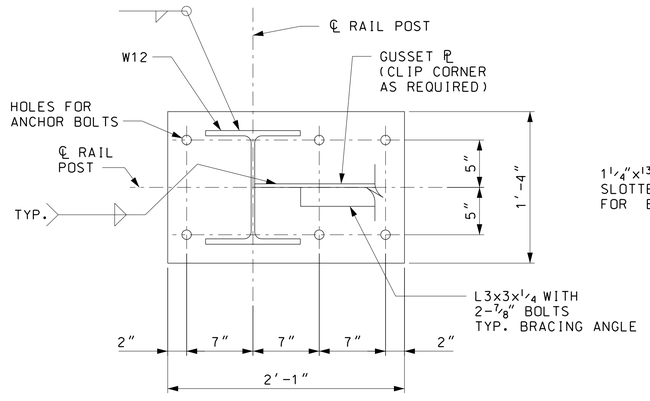
1' 0 1' 2'
SCALE: 1"=1'-0"



A ST-L21 SECTION

SCALE: 1½" = 1'-0"
REF: ST-L21

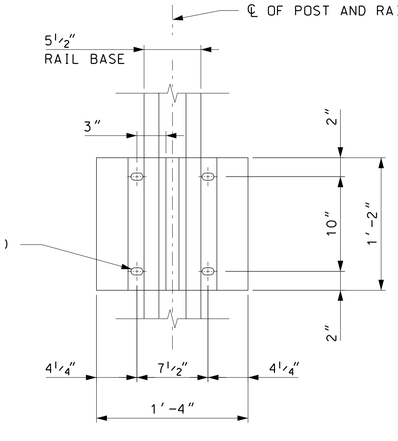
1' 0 1' 2'
SCALE: 1½"=1'-0"



B ST-L21 SECTION

SCALE: 1½" = 1'-0"
REF: ST-L21

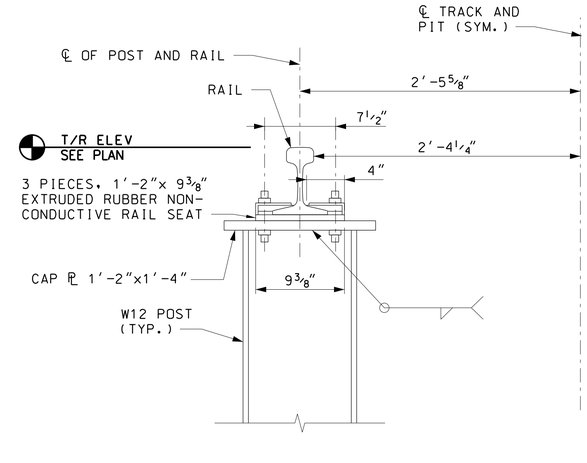
1' 0 1' 2'
SCALE: 1½"=1'-0"



C ST-L21 TOP VIEW

SCALE: 1½" = 1'-0"
REF: ST-L21

1' 0 1' 2'
SCALE: 1½"=1'-0"



1 ST-L21 TYPICAL RAIL POST DETAIL

SCALE: 1½" = 1'-0"
REF: ST-L20

1' 0 1' 2'
SCALE: 1½"=1'-0"

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DESIGN BT
DRAWN JE
CHECK RG
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
RAIL PEDESTAL DETAIL
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L21
SHEET NO. 111 OF 443

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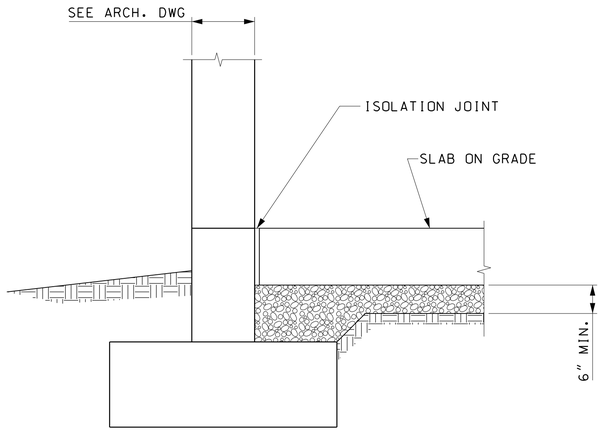

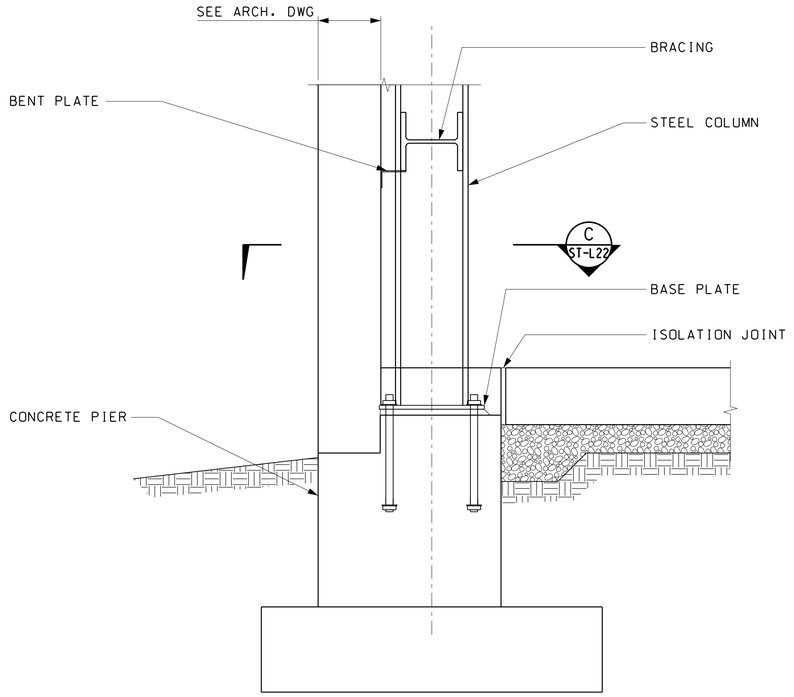

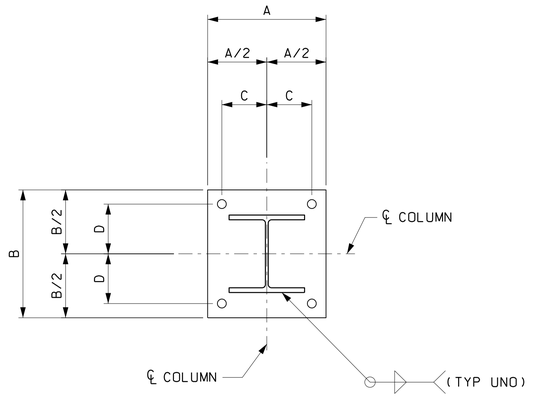

A ST-L22 **TYPICAL EXTERIOR WALL DETAILS**
SCALE: NTS
REF: ST-L09

B ST-L22 **TYPICAL EXTERIOR COLUMN DETAILS**
SCALE: NTS
REF: ST-L09

C ST-L22 **BASE PLATE DETAIL**
SCALE: NTS
REF: ST-L22

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
SECTIONS AND DETAILS
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L22
SHEET NO. 112 OF 443

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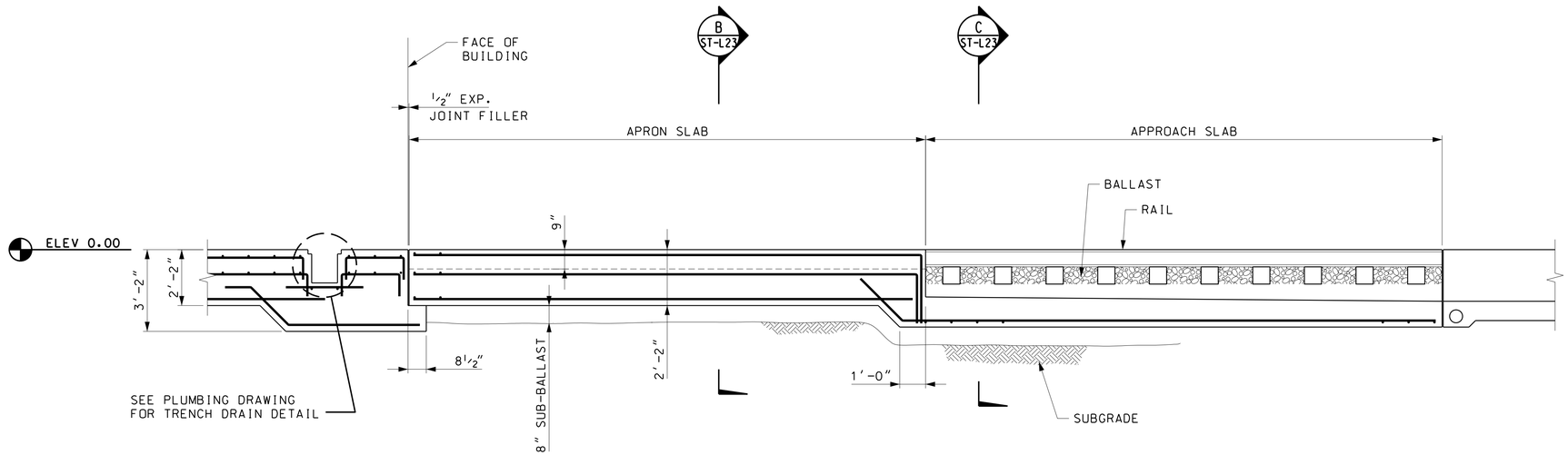
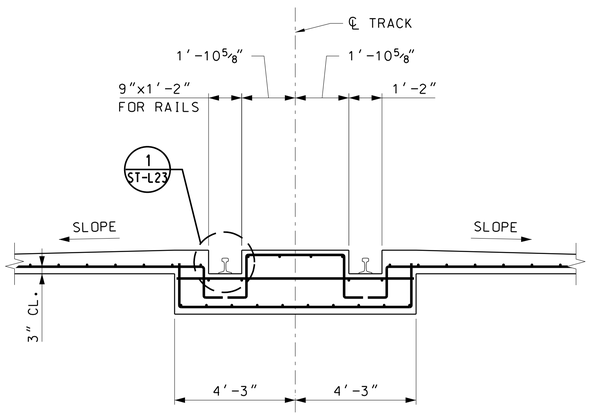


A ST-L23 TYPICAL TRANSITION SLAB DETAIL

SCALE: 3/8" = 1'-0"
REF: ST-L09

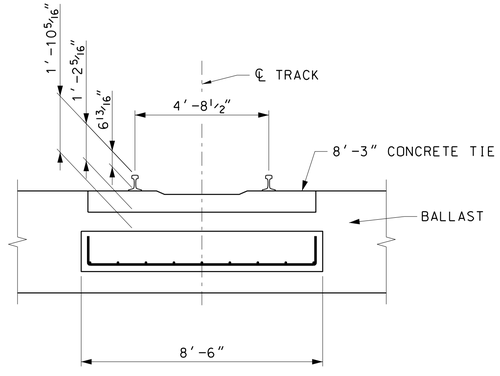
4' 0 4' 8'
SCALE: 3/8"=1'-0"



B ST-L23 SECTION

SCALE: 3/8" = 1'-0"
REF: ST-L23

4' 0 4' 8'
SCALE: 3/8"=1'-0"

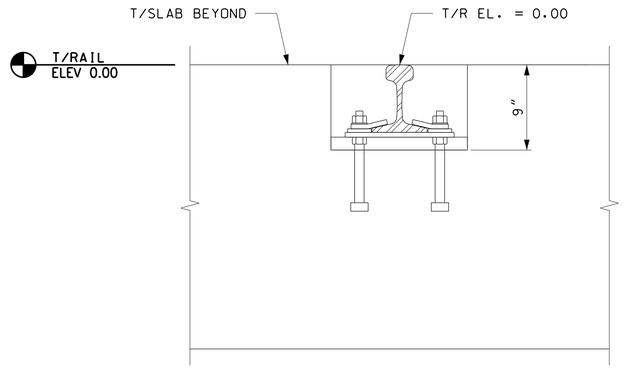


BALLASTED TRACK WITH TRANSITION SLAB

C ST-L23 SECTION

SCALE: 3/8" = 1'-0"
REF: ST-L23

4' 0 4' 8'
SCALE: 3/8"=1'-0"



1 ST-L23 DETAIL

SCALE: 1 1/2" = 1'-0"
REF: ST-L23

1' 0 1' 2'
SCALE: 1 1/2"=1'-0"

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
DETAILS

DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L23
SHEET NO. 113 OF 443

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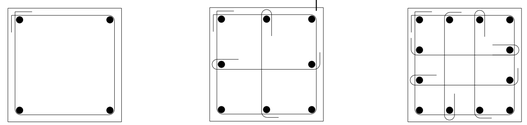
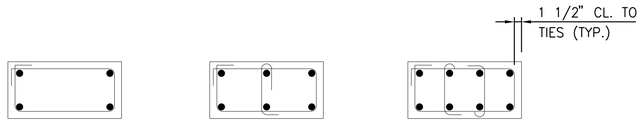
11/15/2013



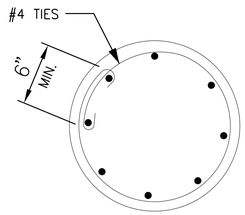
4 BARS 8 BARS 12 BARS

SQUARE COLUMNS



4 BARS 6 BARS 8 BARS

RECTANGULAR COLUMNS



DETAIL 5
SCALE: NTS

COLUMN TIES - SIZE & SPACING

1. ALL COLUMN TIES SHALL BE #3 BARS FOR VERT. REINF. OF # 10 OR SMALLER & #4 BARS FOR #11.
2. COLUMN TIE VERTICAL SPACING SHALL NOT EXCEED:
   a. LEAST COLUMN DIMENSION
   b. 48 TIE BAR DIAMETERS
   c. 16 VERTICAL BAR DIAMETERS
3. PROVIDE ADDITIONAL TIES AS SHOWN ON COLUMN DETAIL
4. RECOMMENDED COLUMN TIE DETAILS ARE SHOWN ON THIS DRAWING. HOWEVER, EVERY CORNER & ALTERNATE VERT. BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE AND NO BAR SHALL BE FARTHER THAN 6" CLEAR ON EACH SIDE ALONG TIE FROM SUCH A LATERAL SUPPORT BAR.

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CHECK	RG
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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
TYPICAL DETAILS
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L24
SHEET NO. 114 OF 443

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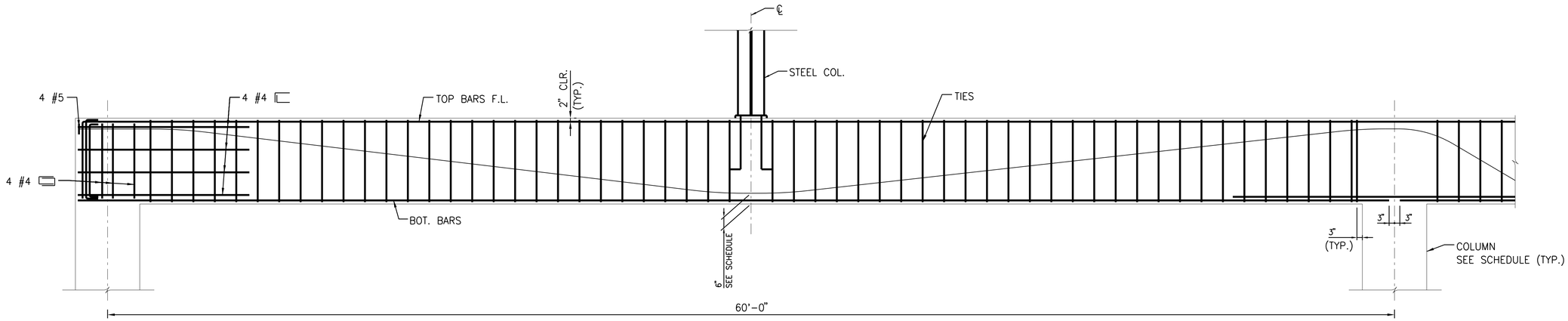
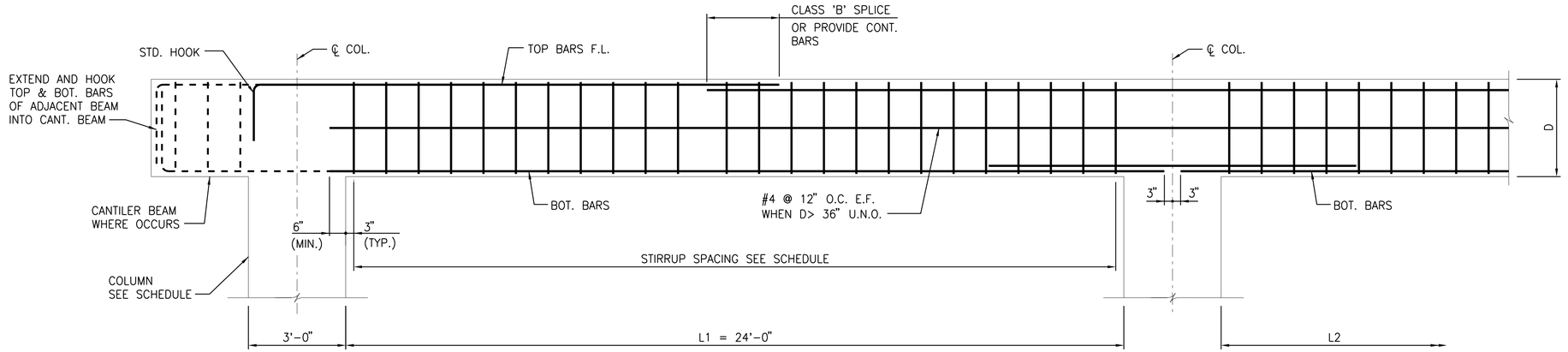
11/15/2013



1 ST-L25 **TYPICAL POST - TENSION BEAM**

SCALE: N.T.S.

NOTE: FOR INFORMATION NOT SHOWN, SEE DETAIL BELOW.



2 ST-L25 **TYPICAL BEAM ELEVATION**

SCALE: N.T.S.

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
TYPICAL DETAILS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L25
SHEET NO. 115 OF 443

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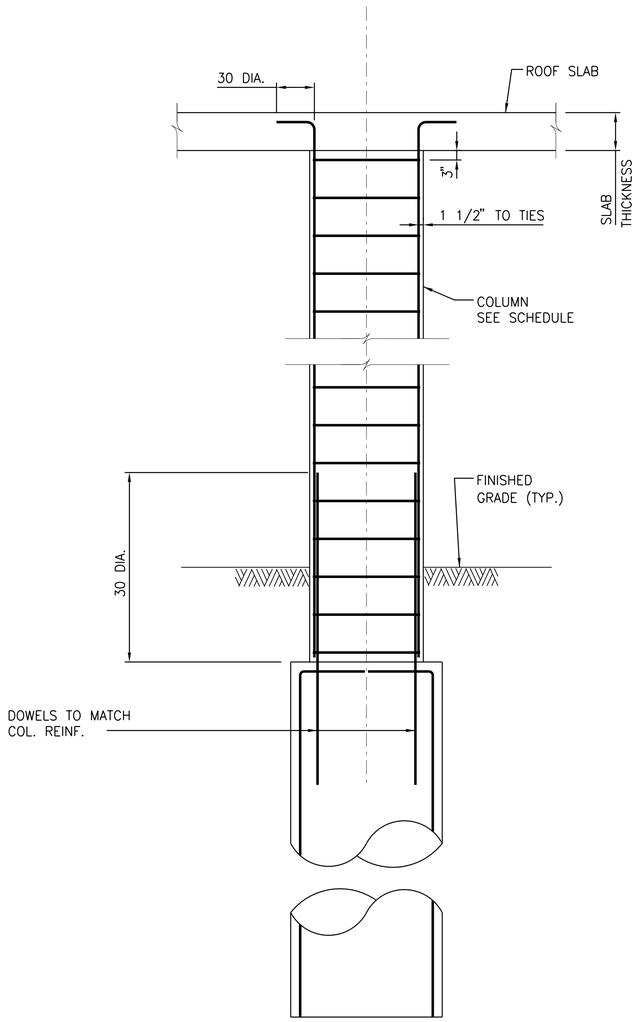
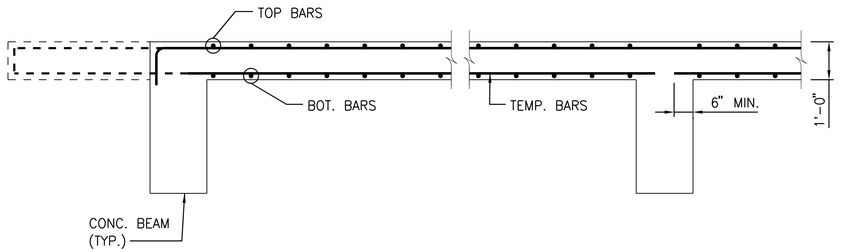
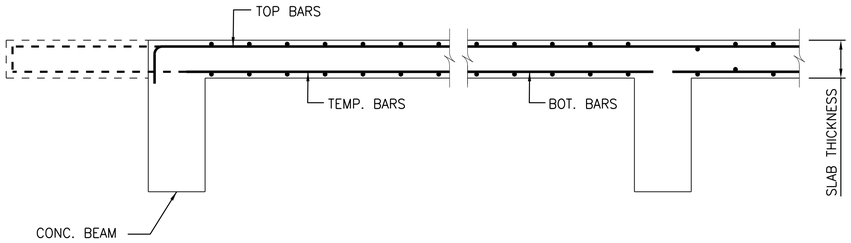


A ST-L26 **TYPICAL COLUMN**
SCALE: NTS
REF. ST-L07

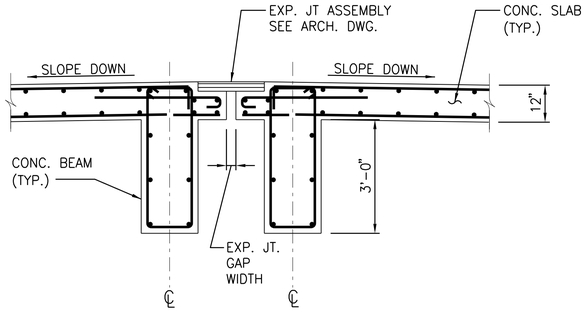


SECTION PERPENDICULAR TO SLAB SPAN



SECTION PARALLEL TO SLAB SPAN

1 ST-L26 **TYPICAL ONE WAY SLAB DETAILS**
SCALE: NTS



B ST-L26 **EXPANSION JOINT DETAIL**
SCALE: NTS
REF. ST-L10
ST-L11

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
TYPICAL DETAILS
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L26
SHEET NO. 116 OF 443

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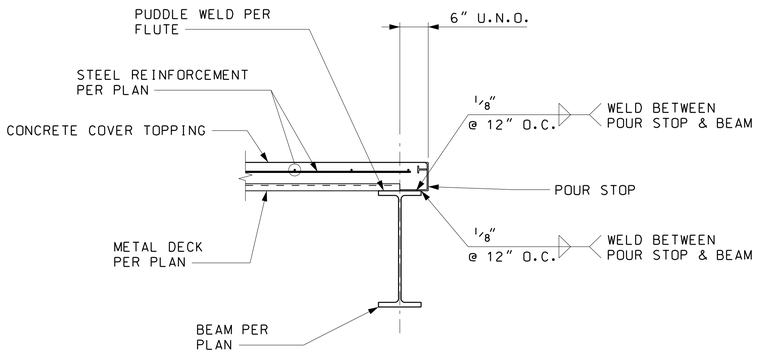
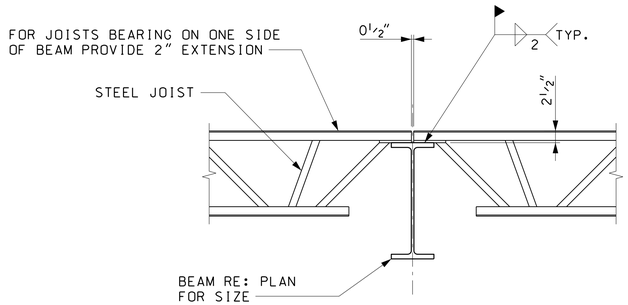


TYPICAL STEEL BEAM METAL DECK SUPPORT

A / ST-L27

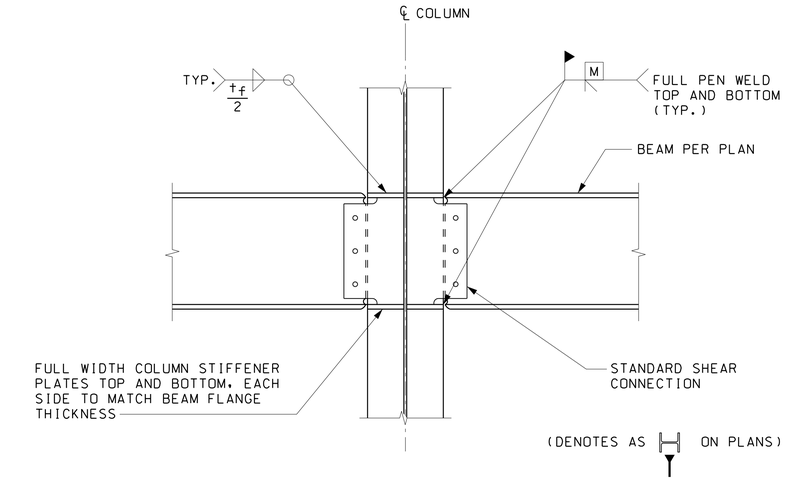
SCALE: NTS
REF: ST-L12



TYPICAL JOIST BEAM CONNECTION

B / ST-L27

SCALE: NTS
REF: ST-L12



TYPICAL RIGID MOMENT CONNECTION

I / ST-L27

SCALE: NTS
REF: ST-L27

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
TYPICAL DETAILS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ST-L27
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ABBREVIATIONS

ABBREV	ABBREVIATION
ABV	ABOVE
A/C	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
APD	AIR PRESSURE DROP
APPROX	APPROXIMATE
ARCH	ARCHITECT, ARCHITECTURAL
ARRG	ARRANGEMENT
AST	ABOVEGROUND STORAGE TANK
ATC	AUTOMATIC TEMPERATURE CONTROL
ATM	ATMOSPHERE
ATR	AIR TEMPERATURE RISE
ATU	AIR TERMINAL UNIT
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
BWV	BACK WATER VALVE
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BTM	BOTTOM
BTUH	BRITISH THERMAL UNITS PER HOUR
BFP	BACKFLOW PREVENTER
°C	DEGREES CELSIUS
CAV	CONSTANT AIR VOLUME
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUT
CO2	CARBON DIOXIDE
COMP	COMPRESSED
CONC	CONCRETE
CONN	CONNECTION, CONNECT
CONT	CONTINUATION
CRU	CONDENSATE RETURN UNIT
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CX	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER PIPE
D	DRAIN OR DEPTH
DB	DRY BULB OR DECIBEL
DBA	DECIBEL (REFERENCE "A" SCALE)
DBL	DOUBLE
DCP	DIGITAL CONTROL PANEL
DDC	DIRECT DIGITAL CONTROL
DESIG	DESIGNATION
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DW	DOMESTIC WATER
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EFF	EFFICIENCY
EG	ETHYLENE GLYCOL
EJ	EXPANSION JOINT
ELEC	ELECTRICAL, ELECTRIC
ELEV	ELEVATION OR ELEVATOR
ENT	ENTERING
ESP	EXTERNAL STATIC PRESSURE
ETC	ET CETERA
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXP	EXPOSED
°F	DEGREES FAHRENHEIT
F&T	FLOAT & THERMOSTATIC TRAP
FCU	FAN COIL UNIT
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FL	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT HD	FEET OF HEAD PRESSURE
FTR	FINNED TUBE RADIATION
GA	GAGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HEIGHT
HED	HOSE END DRAIN
HORIZ	HORIZONTAL
HP	HORSEPOWER
H.P.	HIGH PRESSURE
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HW	DOMESTIC HOT WATER PIPE
HWR	DOMESTIC HOT WATER RECIRCULATING PIPE
HZ	HERTZ

ABBREV	ABBREVIATION
IB	INVERTED BUCKET TRAP
IN	INCH OR INCHES
INV	INVERT ELEVATION
KVA	KILOVOLT AMPERES
KW	KILOWATT
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LB(S)	POUND(S)
LDB	LEAVING DRY BULB
LF	LINEAR FEET
L.P.	LOW PRESSURE
LVG	LEAVING
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MBH	THOUSAND BTU'S PER HOUR
MFR	MANUFACTURER
MIN	MINIMUM
MO	MOTOR OPERATOR
MTD	MOUNTED
NAT	NATURAL
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
OA	OUTDOOR AIR
OC	ON CENTER
OED	OPEN END DUCT
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP
PF	POWER FACTOR
PG	PROPYLENE GLYCOL
PH	PHASE
PLBG	PLUMBING
PPH	POUNDS PER HOUR (STEAM)
PPM	PARTS PER MILLION
PRESS.	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI(G)	POUNDS PER SQUARE INCH (GAGE)
PUH	PROPELLER UNIT HEATER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RADIUS
RA	RETURN AIR
RAD	RADIATED
RD	ROOF DRAIN
REQ'D	REQUIRED
RH	RELATIVE HUMIDITY
RHP	RADIANT HEATING PANEL
RL	RAINLEADER
RLF	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RX	REMOVE EXISTING
SA	SUPPLY AIR
SF	SQUARE FEET
SH	SENSIBLE HEAT
SL	SOUND LINING
SP	STATIC PRESSURE
SPEC	SPECIFICATION/PROJECT MANUAL
SQ	SQUARE
SRD	SECONDARY (OVERFLOW) ROOF DRAIN
SRL	SECONDARY (OVERFLOW) RAIN LEADER
S/S	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURAL
TEMP	TEMPERATURE
TH	TOTAL HEAT
TD	TRENCH DRAIN
THD	THERMODYNAMIC TRAP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	DOOR UNDER CUT
UON	UNLESS OTHERWISE NOTED
UST	UNDERGROUND STORAGE TANK
V	VOLTS
VA	VOLT AMPERES
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFC	VARIABLE FREQUENCY CONTROLLER
VP	VENT PIPE
VTR	VENT THRU ROOF
W	WIDTH
WB	WET BULB
WC	WATER COLUMN
WG	WATER GAGE
W/	WITH
W/O	WITHOUT
WPD	WATER PRESSURE DROP

SYMBOLS

SUPPLY AIR DUCT (UP,DOWN)

RETURN/OUTDOOR/RELIEF AIR DUCT (UP,DOWN)

EXHAUST AIR DUCT (UP,DOWN)

FIRE DAMPER WITH ACCESS DOOR

SMOKE DAMPER WITH ACCESS DOOR

COMBINATION FIRE AND SMOKE DAMPER WITH ACCESS DOOR

MANUAL VOLUME DAMPER

FLEXIBLE CONNECTION (DUCT)

SOUND ATTENUATOR

SOUND LINED DUCT (DIMENSIONS SHOWN ARE AIR-SIDE)

TRANSITION ROUND TO RECTANGULAR

DUCT (SIZE IN INCHES; FIRST FIGURE IS SIDE SHOWN)

DUCT OFFSET UP IN DIRECTION OF ARROW

DUCT OFFSET DOWN IN DIRECTION OF ARROW

ROUND FLEXIBLE DUCT

SUPPLY AIR TERMINAL UNIT

SUPPLY AIR TERMINAL UNIT WITH REHEAT COIL

FAN POWERED AIR TERMINAL UNIT WITH HEATING COIL

DUCT MOUNTED REHEAT COIL

SUPPLY AIR DEVICE

RETURN AIR DEVICE

EXHAUST AIR DEVICE

LINEAR SLOT DIFFUSER WITH PLENUM

SIDEWALL DIFFUSER W/ FIELD FABRICATED PLENUM

DUCT OR WALL MOUNTED AIR DEVICE

PROPELLER UNIT HEATER

FINNED TUBE RADIATION OR RADIANT HEATING PANEL

RETURN AIR FLOW DIRECTION

SUPPLY AIR FLOW DIRECTION

DIAMETER

CUBIC FEET PER MINUTE

CENTER LINE

FLAT OVAL

AREA DRAIN

FLOOR DRAIN

ROOF DRAIN/SECONDARY (OVERFLOW) ROOF DRAIN

FLOOR SINK

TRENCH DRAIN

INVERT ELEVATION

CLEANOUT IN HORIZONTAL

CLEANOUT IN VERTICAL

DOMESTIC WATER BACKFLOW PREVENTER

BACK WATER VALVE (ARROW INDICATES DIRECTION OF FLOW)

SHOCK ABSORBER

HOSE BIBB

NON-FREEZE CONCEALED OUTLET WALL HYDRANT

TRAP PRIMER PIPE

SPACE TEMPERATURE SENSOR OR THERMOSTAT

SPACE HUMIDITY SENSOR OR HUMIDISTAT

SPACE CARBON DIOXIDE SENSOR

DUCT OR PIPE MOUNTED TEMPERATURE SENSOR/TRANSMITTER

DUCT MOUNTED HUMIDITY SENSOR/TRANSMITTER

DUCT MOUNTED CARBON DIOXIDE SENSOR/TRANSMITTER

DUCT MOUNTED SMOKE DETECTOR

FREEZESTAT

CONTROL DAMPER

STATIC PRESSURE SENSOR/AIR FLOW STATION

FAN INLET AIR FLOW MEASURING STATION

TWO WAY CONTROL VALVE

THREE WAY CONTROL VALVE

FLOW SWITCH

DIFFERENTIAL PRESSURE SWITCH

DIFFERENTIAL PRESSURE TRANSMITTER

CURRENT SENSING RELAY

MANUAL OVERRIDE SWITCH

BOUNDARY LINE

SANITARY/WASTE PIPE

CHEMICAL RESISTANT WASTE PIPE

A/C CONDENSATE AND EQUIPMENT DRAIN PIPE

VENT PIPE

CHEMICAL RESISTANT VENT PIPE

STORM WATER PIPE

SECONDARY (OVERFLOW) STORM WATER PIPE

FOUNDATION DRAIN PIPE

SANITARY PUMPED DISCHARGE PIPE

STORM WATER PUMPED DISCHARGE PIPE

DOMESTIC COLD WATER PIPE

DOMESTIC HOT WATER PIPE (TEMP. IF INDICATED)

DOMESTIC HOT WATER RECIRCULATING PIPE

NON-POTABLE WATER PIPE

TREATED WATER PIPE

TEMPERED WATER PIPE

REVERSE OSMOSIS WATER SUPPLY PIPE

REVERSE OSMOSIS WATER RETURN PIPE

DEIONIZED WATER SUPPLY PIPE

DEIONIZED WATER RETURN PIPE

COMPRESSED AIR PIPE

NATURAL GAS PIPE

VACUUM PIPE

NITROGEN GAS PIPE

NITROUS OXIDE GAS PIPE

OXYGEN GAS PIPE

SPECIALTY GAS PIPE

FIRE SUPPRESSION AND WET-PIPE SPRINKLER PIPE

DRY-PIPE FIRE SUPPRESSION PIPE

PREACTION FIRE SUPPRESSION PIPE

CHILLED WATER SUPPLY PIPE

CHILLED WATER RETURN PIPE

CHILLED WATER (GLYCOL) SUPPLY PIPE

CHILLED WATER (GLYCOL) RETURN PIPE

CONDENSER WATER SUPPLY PIPE

CONDENSER WATER RETURN PIPE

HEATING WATER SUPPLY PIPE

HEATING WATER RETURN PIPE

PRIMARY HEATING WATER SUPPLY PIPE

PRIMARY HEATING WATER RETURN PIPE

HIGH PRESSURE STEAM PIPE (_PSIG)

HIGH PRESSURE CONDENSATE RETURN PIPE

MEDIUM PRESSURE STEAM PIPE (_PSIG)

MEDIUM PRESSURE CONDENSATE RETURN PIPE

LOW PRESSURE STEAM PIPE (_PSIG)

LOW PRESSURE CONDENSATE RETURN PIPE

HUMIDIFICATION STEAM PIPE

PUMPED CONDENSATE RETURN PIPE

STEAM VAPOR VENT PIPE

REFRIGERANT RELIEF PIPE

REFRIGERANT SUCTION PIPE

REFRIGERANT LIQUID PIPE

HOT GAS REFRIGERANT PIPE

FUEL OIL SUPPLY PIPE

FUEL OIL RETURN PIPE

ENERGY RECOVERY SUPPLY PIPE

ENERGY RECOVERY RETURN PIPE

DUAL TEMPERATURE SUPPLY

DUAL TEMPERATURE RETURN

FLOW DIRECTION ARROW

PIPE UP

PIPE DOWN

PIPE/DUCT CAP

UNION

FLANGED CONNECTION

PIPE ANCHOR

PIPE GUIDE

CONCENTRIC REDUCER

ECCENTRIC REDUCER

FLEXIBLE CONNECTION (PIPING)

SHUTOFF VALVE (IN HORIZONTAL / IN VERTICAL)

THROTTLING VALVE

MANUAL BALANCING VALVE

AUTOMATIC BALANCING VALVE

CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)

PRESSURE REDUCING VALVE

PRESSURE RELIEF VALVE

HOSE END DRAIN

PRESSURE GAGE WITH ISOLATION VALVE

TEMPERATURE GAGE/THERMOMETER

FLOW METER FITTING

COMBINATION BALANCING VALVE & FLOW METER FITTING

PRESSURE AND TEMPERATURE PLUG

AUTOMATIC AIR VENT

MANUAL AIR VENT

STRAINER WITH VALVE

STEAM TRAP

FIRE SUPPRESSION INDICATING VALVE W/TAMPER SWITCH

FIRE DEPARTMENT VALVE

ALARM CHECK VALVE

DRY PIPE VALVE

DRY PIPE VALVE W/ACCELERATOR

PREACTION VALVE

DELUGE VALVE

FIRE SUPPRESSION FLOW SWITCH

FIRE SUPPRESSION PRESSURE SWITCH

FIRE SUPPRESSION DOUBLE CHECK BACKFLOW PREVENTER

FIRE DEPARTMENT SIAMESE WALL CONNECTION

FIRE DEPARTMENT SIAMESE FREESTANDING CONNECTION

WATER MOTOR GONG

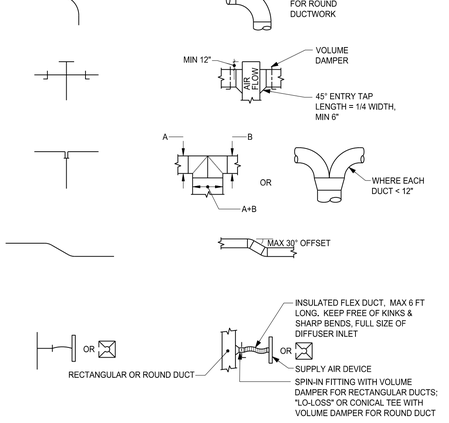
MAGNAHELIC PRESSURE GAGE

DRAWING CONVENTIONS

SYMBOL	DESCRIPTION
X / MXX	INDICATES DETAIL DESIGNATION; DRAWING WHERE DETAIL IS DRAWN
	INDICATES DIRECTION OF CUTTING PLANE
X / MX	INDICATES SECTION OR ELEVATION DESIGNATION; DRAWING NUMBER WHERE ELEVATION OR SECTION IS TAKEN OR DRAWN
	INDICATES CUT LINE
S / X	SANITARY RISER DESIGNATION
W / X	DOMESTIC WATER RISER DESIGNATION
PCH-X	EQUIPMENT DESIGNATION; NUMERICAL DESIGNATION; EQUIPMENT TYPE DESIGNATION
P-X	PLUMBING FIXTURE DESIGNATION, P-X

SYMBOL	DESCRIPTION
	POINT OF CONNECTION, NEW TO EXISTING
	DEMOLITION WORK TERMINATION POINT
X	INDICATES AIR DEVICE; AIR DEVICE DESIGNATION. REFER TO SCHEDULE FOR SIZE AND TYPE
X	INDICATES SPECIAL NOTE; SPECIAL NOTE DESIGNATION, REFER TO SPECIAL NOTE LIST ON DRAWING FOR DESCRIPTION OF ITEM
	HEAVY LINE WEIGHT DESIGNATES NEW WORK ON NEW WORK PLANS, AND REMOVAL WORK ON DEMOLITION PLANS
	LIGHT LINE WEIGHT DESIGNATES EXISTING WORK TO REMAIN

DUCTWORK CONVENTIONS



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MTA Maryland

Gannett Fleming
WR&A

PAULCO Engineering, Inc.
Columbia, MD

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

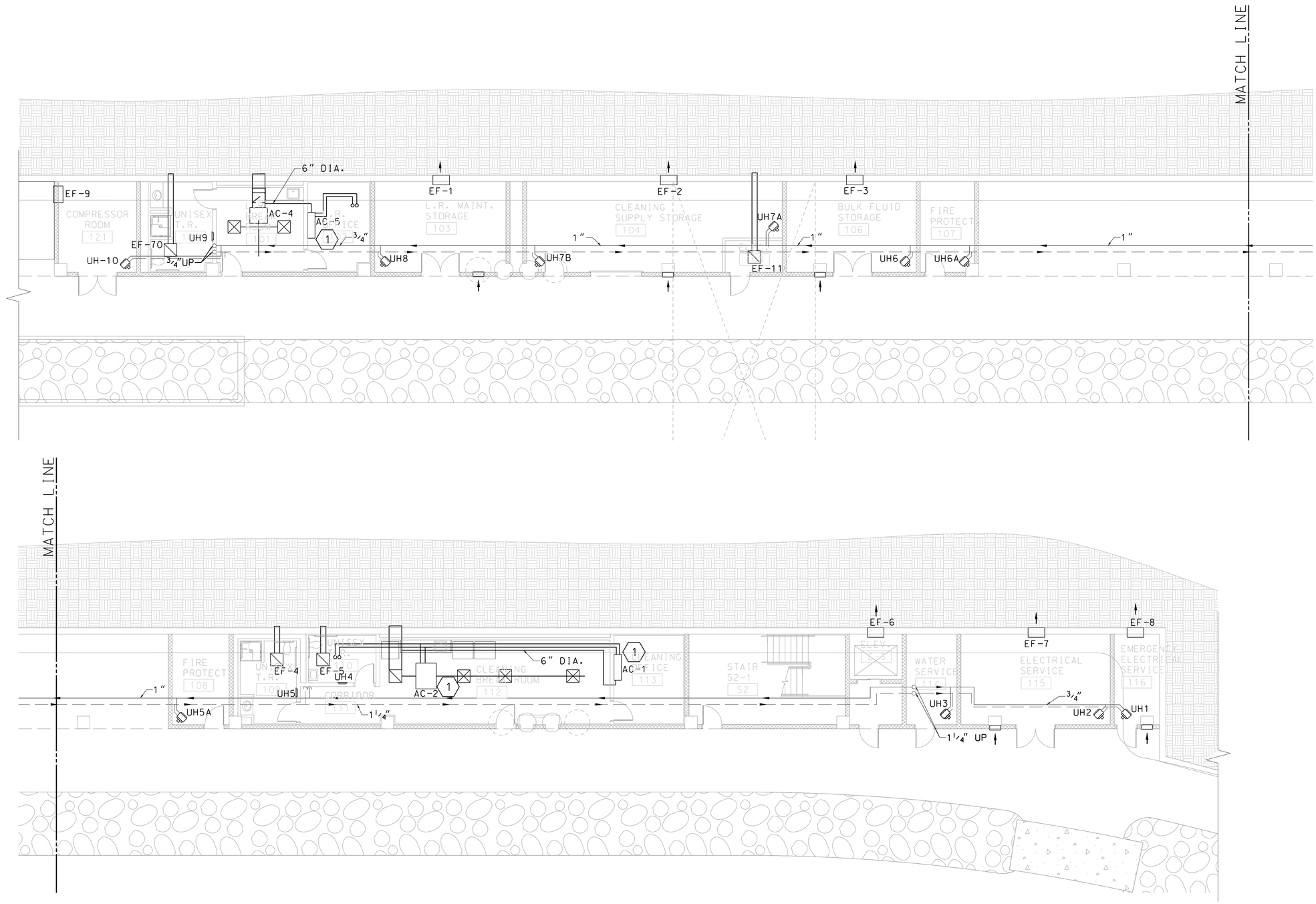
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
GENERAL NOTES AND ABBREVIATIONS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ME-L01
SHEET NO. 118 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA01.dgn
11/15/2013



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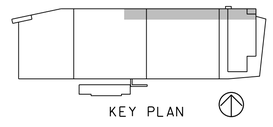
DRAWING NOTES:

1. MOUNT ASSOCIATED CONDENSING UNIT ON ROOF. PROVIDE ALL ASSOCIATED PIPING AND CONTROL WIRES.



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

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CHECK	VH
APPR	

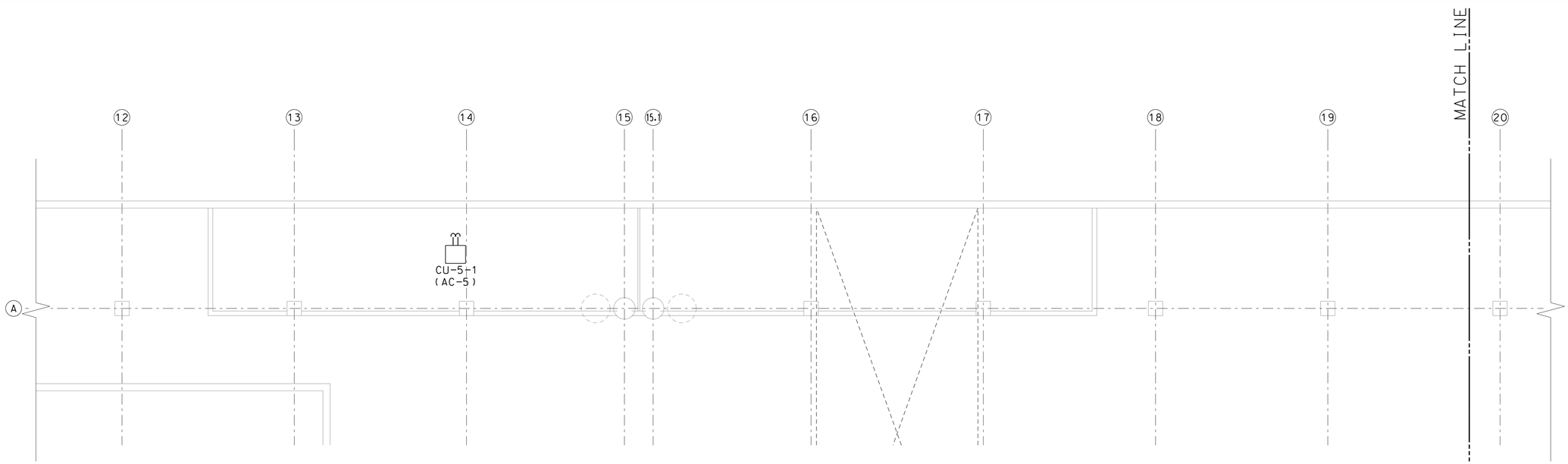
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

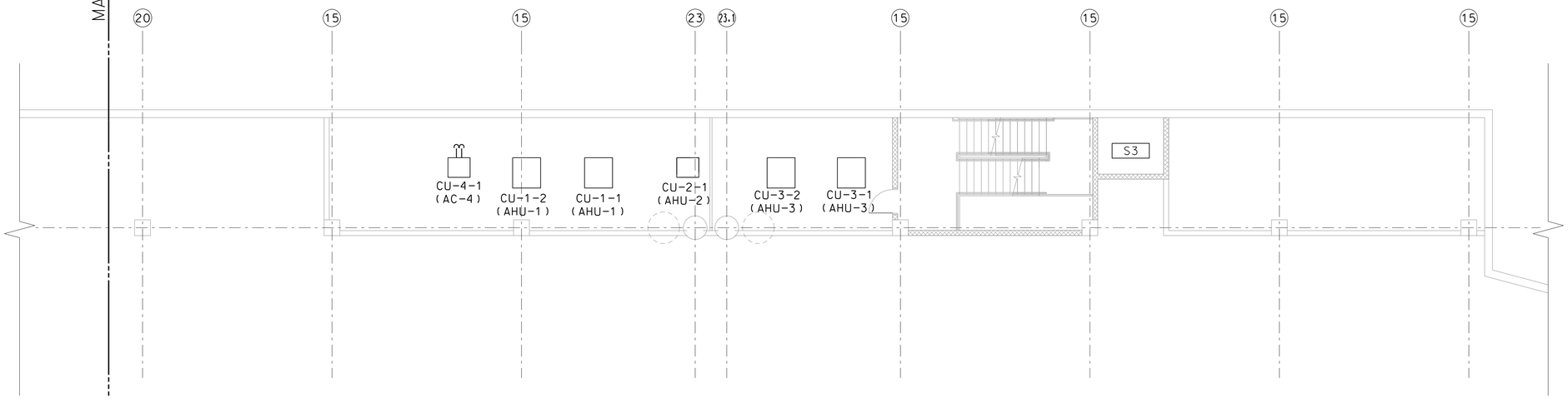
LYTTONSVILLE YARD FACILITY
YARD LEVEL FLOOR PLAN – HVAC

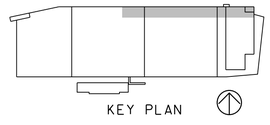
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T–1042–0220
DRAWING NO. ME–L10
SHEET NO. 119 OF 443

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA10.dgn
11/15/2013







8′ 0 8′ 16′
SCALE: 1/8"=1′-0"

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DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

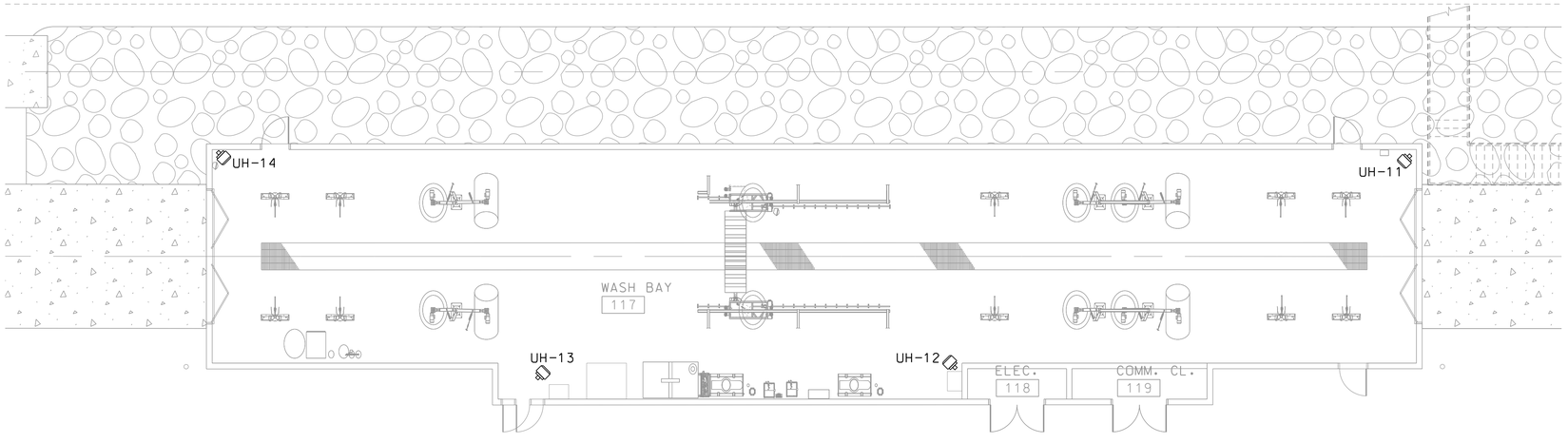
LYTTONSVILLE YARD FACILITY
YARD LEVEL ROOF PLAN – HVAC
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T–1042–0220
DRAWING NO. ME–L11
SHEET NO. 120 OF 443

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A–Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA11.dgn
11/26/2013

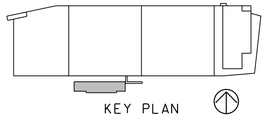
WASH BUILDING ROOF PLAN

SCALE: 1/8"=1'-0"



WASH BUILDING FLOOR PLAN

SCALE: 1/8"=1'-0"



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

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DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

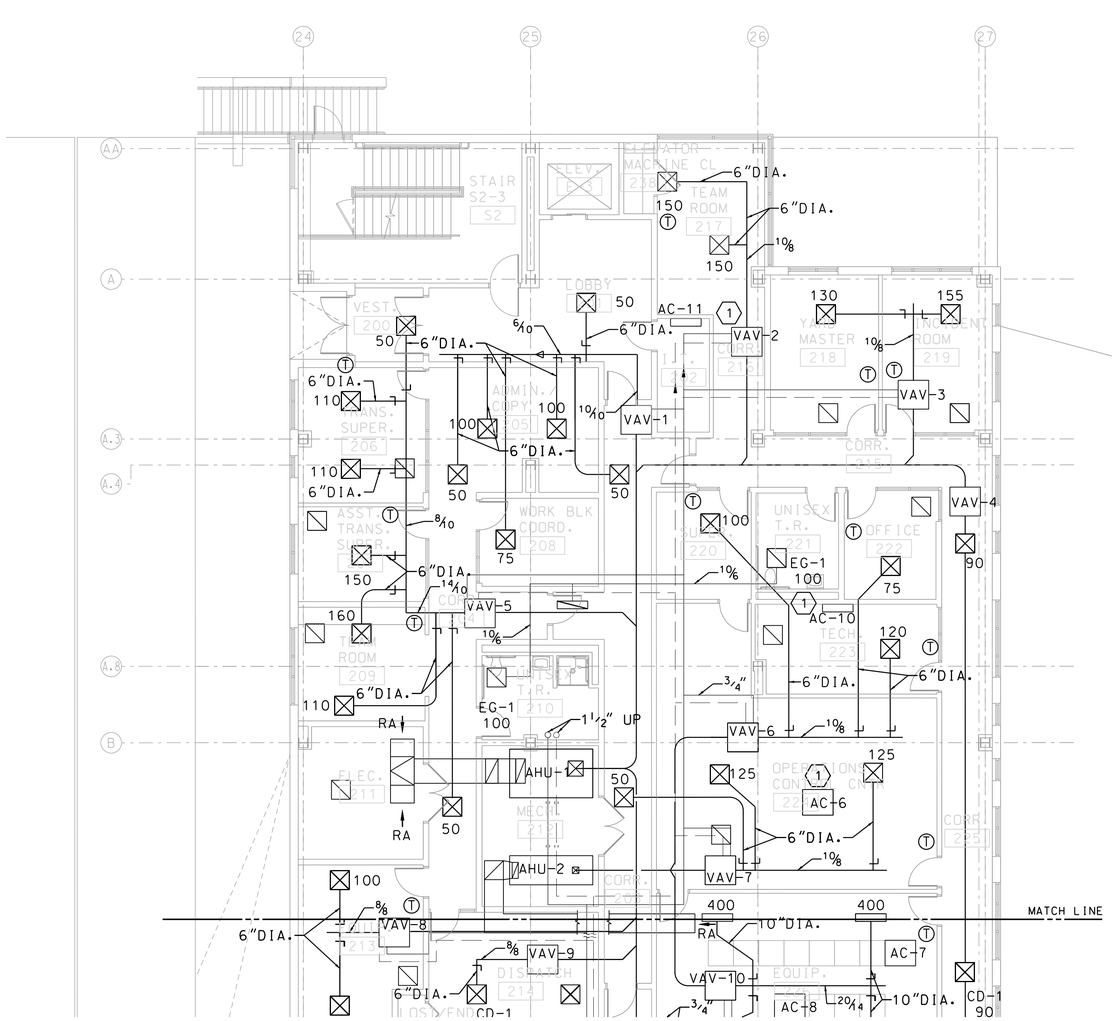
LYTTONSVILLE YARD FACILITY
WASH BLDG FLOOR AND ROOF PLANS – HVAC
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

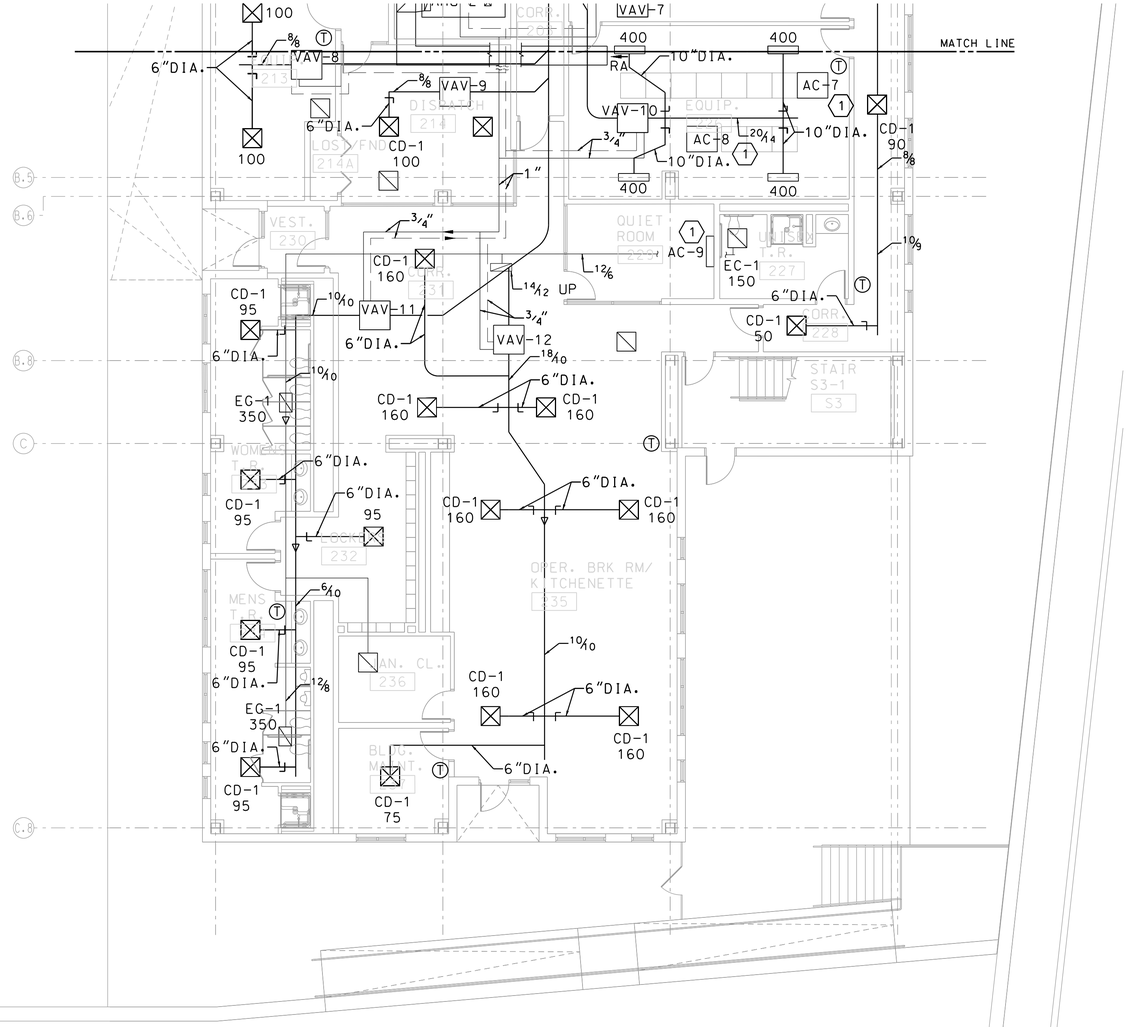
CONTRACT NO. T–1042–0220
DRAWING NO. ME–L12
SHEET NO. 121 OF 443

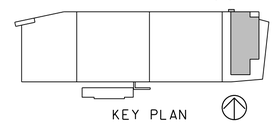
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA12.dgn
12/6/2013

DRAWING NOTES:

1. MOUNT ASSOCIATED CONDENSING UNIT ON ROOF. PROVIDE ALL ASSOCIATED PIPING AND CONTROL WIRES.







OFFICE FIRST FLOOR PLAN - HVAC

SCALE: 1/8"=1'-0"

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

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DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

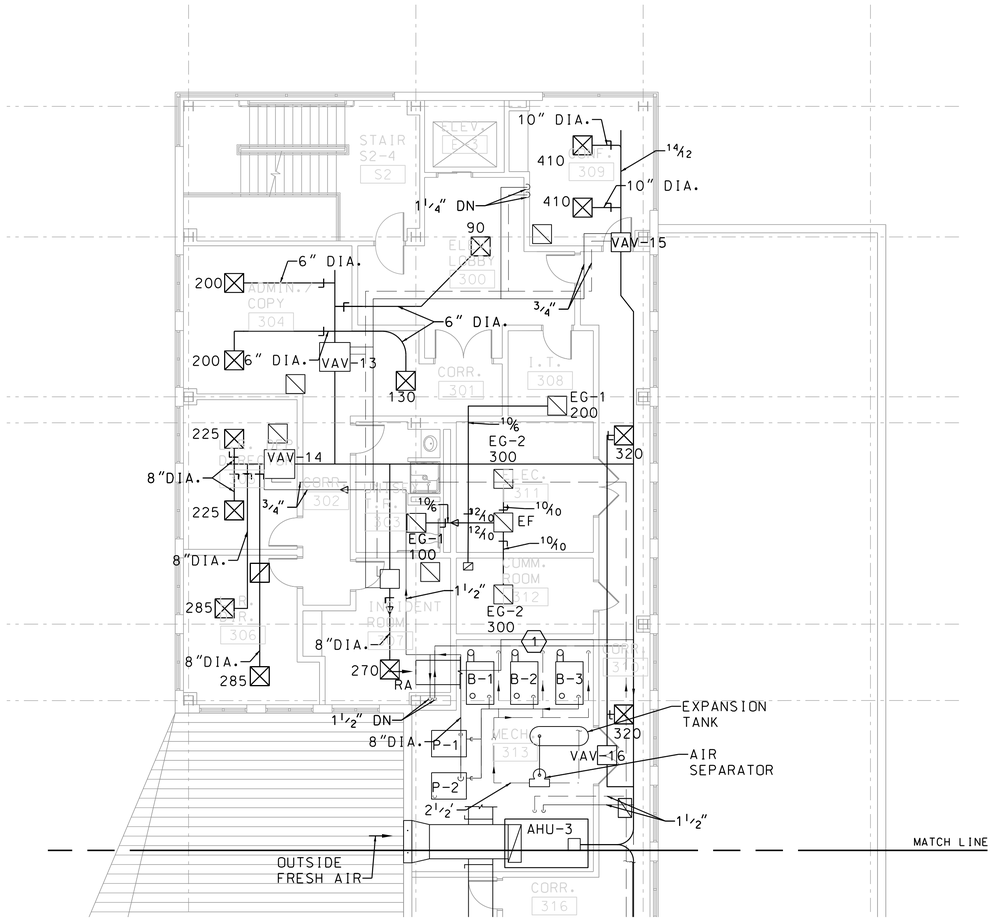
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
OFFICE FIRST FLOOR PLAN – HVAC
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

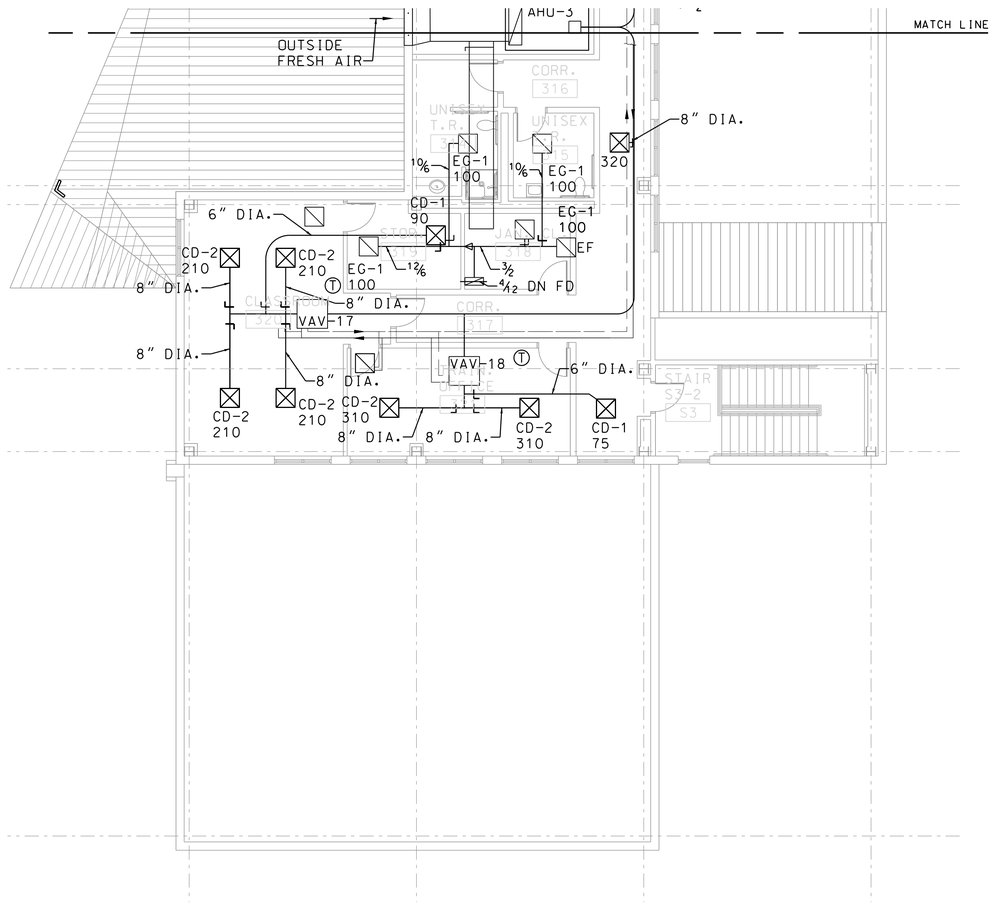
CONTRACT NO. T-1042-0220
DRAWING NO. ME-L13
SHEET NO. 122 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA13.dgn
11/15/2013

DRAWING NOTES:

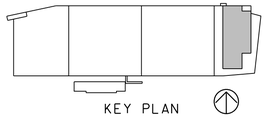
(1) BOILER FLUE THROUGH ROOF (TYPICAL).





SECOND FLOOR PLAN - HVAC

SCALE: 1/8"=1'-0"



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE SECOND FLOOR PLAN – HVAC

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. ME-L14
SHEET NO. 123 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA14.dgn
11/15/2013

AIR HANDLING UNIT SCHEDULE

ID NO.	LOCATION	TYPE	FAN SECTION: MAX CFM	OA CFM	SUPPLY FAN	RPM	ESP IN.	BHP	MHP	V-PH-HZ	COOLING COIL: TOTAL MBH	SENSIBLE MBH	MAX FACE VEL. PPM	MIN ROWS	MAX FIN PER IN.	AIRSIDE: EAT DBT °F	EAT WBT °F	LAT DBT °F	LAT WBT °F	MAX APD IN. WC	SIDE: REFRIGERANT	HOT WATER HEATING COIL: TOTAL MBH	MAX FACE VEL. PPM	MIN ROWS	MAX FIN PER IN.	AIR SIDE: EAT °F	LAT °F	MAX APD (IN. WC)	WATER SIDE: EWT °F	LWT °F	GPM	MAX WPD (FT. WC)	FILTERS: TYPE	MAX FACE VEL. FPM	ASHRAE MERV RATING	THICK (IN.)	PRESSURE DROP: INITAL (IN. WC)	FINAL (IN. WC)	ACCESS	MAX UNIT WEIGHT lbs (1)	BASIS OF DESIGN	REMARKS
AHU-1	1ST FLOOR MECH ROOM	VERTICAL DRAWTHRU	7600	930	AIR FOIL	2817	2.0	12.2	15	460-3-60	244.1	201.5	452	4	10.2	77.6	63.3	53.4	52.2	0.4	R410A	118.1	507	1	6.7	61	75	0.073	140	120	11.8	0.4	(6)	402	8 & 15	2	–	2.2	SIDE	–	TRANE 17	(1)(2)(3)(4)(5)(6)(7)
AHU-2	1ST FLOOR MECH ROOM	VERTICAL DRAWTHRU	1000	160	–	2526	1.5	1.94	3	460-3-60	34.4	26.3	343	4	7.8	78.4	64.7	54.4	53.1	0.28	R410A	16.8	400	1	6.7	60	75	0.045	140	120	1.7	0.34	(6)	300	8 & 15	2	–	2.2	SIDE	–	TRANE 3	(1)(2)(3)(4)(5)(6)
AHU-3	2ND FLOOR MECH ROOM	VERTICAL DRAWTHRU	8500	1500	AIR FOIL	2488	2.0	12.9	15	460-3-60	280.1	231.0	506	4	8.67	78.4	63.4	53.6	52.0	0.52	R410A	147.5	567	1	7.7	59	75	0.99	140	120	14.8	0.61	(6)	450	8 & 15	2	–	2.2	SIDE	–	TRANE 17	(1)(2)(3)(4)(5)(6)(7)

(1) INTERNAL FACE & BYPASS DAMPERS FOR COIL (2) PROVIDE MIXING BOX WITH ANGLED FILTER (3) MOTOR COMPATIBLE WITH VFD (4) HEATING COIL PERFORMANCE IS BASED ON MIN OA (5) DX COOLING COIL (6) PROVIDE MERV 8 PREFILTER, MERV 15 12" CARTRIDGE FINAL FILTER (7) FOUR SEPARATE DISTRIBUTION CIRCUITS IN COOLING COIL

BOILER SCHEDULE

DESIGNATION	LOCATION	BASIS OF DESIGN: MANUFACTURER	MODEL	AGA RATED INPUT (MBH)	AGA RATED OUPUT (MBH)	WATER TEMP RANGE	MAX. OPERATING PRESSURE	BURNER MOTOR CHARACTERISTICS: AMPS(MAX/RUN)	V/PH/HZ	PRIMARY FUEL	MAX. FUEL PRESSURE (IN.)	REMARKS
B-1	BOILER ROOM	FULTON	PHW 300	300	270	120°F-140°F	60 PSIG	4.2/0.6	120/1/60	MAT. GAS	11	(1)
B-2	BOILER ROOM	FULTON	PHW 300	300	270	120°F-140°F	60 PSIG	4.2/0.6	120/1/60	MAT. GAS	11	(1)
B-3	BOILER ROOM	FULTON	PHW 300	300	270	120°F-140°F	60 PSIG	4.2/0.6	120/1/60	MAT. GAS	11	(1)

(1) PROVIDE WITH EXHAUST MUFFLER

PUMP SCHEDULE

DESIGNATION	DESCRIPTION	LOCATION	MANUFACTURER	MODEL	GPM	MAX HEAD (FT.)	MOTOR: RPM	HP	V/PH/HZ	COMMENTS
P-1	END SUCTION	BOILER ROOM	BELL & GOSSETT	1510-			–	–	460/3/60	(1)
P-2	END SUCTION	BOILER ROOM	BELL & GOSSETT	1510-			–	–	460/3/60	(1)

(1) MOTOR COMPATIBLE WITH VFD

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

DESIGNATION	SERVICE	MOUNTING	FACE SIZE (IN.)	NECK SIZE (IN.)	MATERIAL	PATTERN	CFM RANGE	MAX. NC	MAX. APD (IN. WG)	BASIS OF DESIGN	COMMENTS
CD-1	SUPPLY	LAY-IN	24x24	6" DIA	STEEL	DIFFUSER, 4-WAY, ADJUSTABLE	1-230	30	0.1	TITUS TMSA	1
CD-2	SUPPLY	LAY-IN	24x24	8" DIA	STEEL	DIFFUSER, 4-WAY, ADJUSTABLE	231-340	30	0.1	TITUS TMSA	1
CD-3	SUPPLY	LAY-IN	24x24	10" DIA	STEEL	DIFFUSER, 4-WAY, ADJUSTABLE	341-430	30	0.1	TITUS TMSA	1
CD-4	SUPPLY	LAY-IN	24x24	12" DIA	STEEL	DIFFUSER, 4-WAY, ADJUSTABLE	431-620	30	0.1	TITUS TMSA	1
CR-1	RETURN	LAY-IN	24x24	10x6	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	1-270	30	0.1	TITUS 50F	1
CR-2	RETURN	LAY-IN	24x24	10x10	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	271-470	30	0.1	TITUS 50F	1
CR-3	RETURN	LAY-IN	24x24	12x12	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	471-700	30	0.1	TITUS 50F	1
CR-4	RETURN	LAY-IN	24x24	14x14	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	701-970	30	0.1	TITUS 50F	1
CR-5	RETURN	LAY-IN	24x24	16x16	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	971-1,290	30	0.1	TITUS 50F	1
CR-6	RETURN	LAY-IN	24x24	18x18	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	1,291-1,650	30	0.1	TITUS 50F	1
EG-1	EXHAUST	SURFACE	12X8	10x6	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	1-270	30	0.1	TITUS 50F	1
EG-2	EXHAUST	SURFACE	12X12	10x10	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	271-470	30	0.1	TITUS 50F	1
EG-3	EXHAUST	SURFACE	14X14	12x12	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	471-700	30	0.1	TITUS 50F	1
EG-4	EXHAUST	SURFACE	16x16	14x14	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	701-970	30	0.1	TITUS 50F	1
TG-1	TRANSFER	SURFACE	14x14	12x12	ALUMINUM	1/2" x 1/2" EGGCRATE GRID, FIXED	291-440	–	0.04	TITUS 50F	1
SR-1	SUPPLY	SURFACE	12x8	10x6	STEEL	BAR GRILLE, DOUBLE DEFLECTION, ADJ.	1-290	30	0.1	TITUS 300RS-HD	1, 2
WG-1	TRANSFER	SURFACE	20x12	18x10	ALUMINUM	BAR GRILLE, 0-DEG FIXED	291-600	15	0.04	TITUS 60FL-HD	1
WG-2	RETURN	SURFACE	36x12	18x18	STEEL	BAR GRILLE, 0-DEG FIXED	1,281-1,370	20	0.1	TITUS 350RL-HD	1

1 - WHITE FINISH
2 - WITH OPPOSED BLADE DAMPER

TERMINAL UNIT SCHDULE

ID NO.	SYSTEM	TYPE	ACTUATOR	MAX CFM	MIN CFM	MIN INLET SP IN. WG	MIN INLET SIZE IN.	REHEAT COIL: CFM	TOTAL MBH	EAT ?F	LAT F	MAX APD IN. WG	EWT F	MAX GPM	MIN ROWS	MAX WPD FT	SOUND DATA: DISCHARGE NC	RAD NC	MANUFACTURER	REMARKS
VAV-1		VAV	DDC			1.0							140						TITUS DESV-	
VAV-2		VAV	DDC			1.0							140						TITUS DESV-	
VAV-3		VAV	DDC			1.0							140						TITUS DESV-	
VAV-4		VAV	DDC			1.0							140						TITUS DESV-	
VAV-5		VAV	DDC			1.0							140						TITUS DESV-	
VAV-6		VAV	DDC			1.0							140						TITUS DESV-	
VAV-7		VAV	DDC			1.0							140						TITUS DESV-	
VAV-8		VAV	DDC			1.0							140						TITUS DESV-	
VAV-9		VAV	DDC			1.0							140						TITUS DESV-	
VAV-10		VAV	DDC			1.0							140						TITUS DESV-	
VAV-11		VAV	DDC			1.0							140						TITUS DESV-	
VAV-12		VAV	DDC			1.0							140						TITUS DESV-	
VAV-13		VAV	DDC			1.0							140						TITUS DESV-	
VAV-14		VAV	DDC			1.0							140						TITUS DESV-	
VAV-15		VAV	DDC			1.0							140						TITUS DESV-	
VAV-16		VAV	DDC			1.0							140						TITUS DESV-	

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
MECHANICAL SCHEDULES AND DETAILS
DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ME-L80
SHEET NO. 124 OF 443

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11/15/2013

FAN SCHEDULE

FAN NO	LOCATION	SERVING	CFM	ESP (IN)	MOTOR				RPM	MIN FAN DIA	WHEEL TYPE	CLASS	DRIVE TYPE	METHOD OF CONTROL	MANUFACTURER / MODEL
					HP	MAX BHP	VOLTS	PHASE							
EF-1	LR MAINTENANCE STORAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-2	CLEANING SUPPLY STORAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-3	BULK FLUID STORAGE	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-4	UNISEX TOILET	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-5	UNISEX TOILET	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-6	ELEVATOR	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-7	ELECT SERVICE ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-8	EMERGENCY ELECTRICAL ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-9	COMPRESSOR RM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-10	UNISEX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-11	ELECTRICAL RM	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-12	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EF-13	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-

UNIT HEATER SCHEDULE

DESIG	LOCATION	MOUNTING	KW	BTU / HR	VOLTS	PHASE	CFM	EAT (°F)	LAT (°F)	MANUFACTURER / MODEL
UH-1	EMERGENCY ELECTRICAL	CEILING HUNG	-	-	-	-	-	-	-	-
UH-2	ELECTRICAL SERVICE	CEILING HUNG	-	-	-	-	-	-	-	-
UH-3	WATER SERVICE	CEILING HUNG	-	-	-	-	-	-	-	-
UH-4	UNISEX	CEILING HUNG	-	-	-	-	-	-	-	-
UH-5	UNISEX	CEILING HUNG	-	-	-	-	-	-	-	-
UH-5A	FIRE PROTECTION	CEILING HUNG	-	-	-	-	-	-	-	-
UH-6	BULK FLUID STOAGE	CEILING HUNG	-	-	-	-	-	-	-	-
UH-6A	FIRE PROTECTION	CEILING HUNG	-	-	-	-	-	-	-	-
UH-7A	ELECTRI CAL	CEILING HUNG	-	-	-	-	-	-	-	-
UH-7B	CLEANING SUPPLY STORAGE	CEILING HUNG	-	-	-	-	-	-	-	-
UH-8	LR MAINTENANCE STORAGE	CEILING HUNG	-	-	-	-	-	-	-	-
UH-9	UNISEX	CEILING HUNG	-	-	-	-	-	-	-	-
UH-10	COMPRESSOR	CEILING HUNG	-	-	-	-	-	-	-	-
UH-11	WASH BUILDING	CEILING HUNG	-	-	-	-	-	-	-	-
UH-12	WASH BUILDING	CEILING HUNG	-	-	-	-	-	-	-	-
UH-13	WASH BUILDING	CEILING HUNG	-	-	-	-	-	-	-	-
UH-14	NOT USED	-	-	-	-	-	-	-	-	-
UH-15	NOT USED	-	-	-	-	-	-	-	-	-
UH-16	NOT USED	-				-				

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE

DESIGNATION		LOCATION	AREA SERVED	CFM	UNIT TYPE	COOLING	HEATING	ELECTRICAL CHARACTERISTICS						MANUFACTURER / MODEL
INDOOR UNIT	OUTDOOR UNIT					TOTAL MBH	TOTAL MBH	INDOOR			OUTDOOR			
								MIN AMPACITY	VOLTS / Ø	MFS	MIN AMPACITY	VOLTS / Ø	MFS	
AC-1	ON ROOF	PLANNING OFFICE	-	-	-	-	-	-	-	-	-	-	-	-
AC-2	ON ROOF	CLEANING BREAK ROOM	-	-	-	-	-	-	-	-	-	-	-	-
AC-3		NOT USED	-	-	-	-	-	-	-	-	-	-	-	-
AC-4	ON ROOF	MOW FOREMAN OFFICE	-	-	-	-	-	-	-	-	-	-	-	-
AC-5	ON ROOF	OFFICE	-	-	-	-	-	-	-	-	-	-	-	-
AC-6	ON ROOF	OPERATION CONTROL	-	-	-	-	-	-	-	-	-	-	-	-
AC-7	ON ROOF	EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
AC-8	ON ROOF	EQUIPMENT	-	-	-	-	-	-	-	-	-	-	-	-
AC-9	ON ROOF	QUIET ROOM	-	-	-	-	-	-	-	-	-	-	-	-
AC-10	ON ROOF	QUIET ROOM	-	-	-	-	-	-	-	-	-	-	-	-
AC-11	ON ROOF	IT ROOM												

NOTE: PROVIDE DOUBLE SUCTION REFRIGERANT PIPING RISERS AND TRAPS AS RECOMMENDED BY MANUFACTURER. QUANTITY AND SIZES OF REFRIGERANT PIPING SHALL BE AS RECOMMENDED BY MANUFACTURER.

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PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
MECHANICAL SCHEDULES AND DETAILS

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. ME-L81
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pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Mechanical\Sheet Files\1042pMELA81.dgn
11/15/2013

NOTE: ALL THE SYMBOLS AND ABBREVIATIONS INDICATED HERE MAY NOT APPEAR ON THE CONTRACT DRAWINGS.

GENERAL NOTES

PGN-1 PROVIDE ACCESS DOORS TO SERVICE DAMPERS, OPERATORS, VALVES, EQUIPMENT ABOVE PLASTER, DRYWALL, AND/OR INACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND TYPE OF CEILING CONSTRUCTION. ACCESS DOORS/ PANELS ARE NOT LIMITED TO THE EXTENT WHERE INDICATED ON PLANS.

PGN-2 PROVIDE ACCESS DOORS TO SERVICE DAMPERS, VALVES, ETC BEHIND DRYWALL, PLASTER OR MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND TYPE OF WALLS CONSTRUCTION. ACCESS DOORS/PANELS ARE NOT LIMITED TO THE EXTENT WHERE SHOWN ON PLANS.

PGN-3 UNLESS NOTED OTHERWISE, THE ACCESS DOORS IN WALLS AND CEILINGS SHALL BE SIZED AS REQUIRED TO PERMIT FULL ACCESSIBILITY TO VALVES, DAMPERS, FILTERS, ETC. MINIMUM ACCESS DOOR SIZE SHALL BE 18" X 18".

PGN-4 COORDINATE WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS FOR TYPES OF CEILINGS, CONDUITS, LIGHTING FIXTURES, ELECTRICAL PANELS, ETC.

PGN-5 ALL CUTTING AND PATCHING, WHERE REQUIRED, SHALL BE DONE IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS. COORDINATE WITH ARCHITECTURAL DETAILS FOR OPENINGS AND PENETRATIONS.

PGN-6 REFER TO ARCHITECTURAL AND/OR STRUCTURAL DRAWINGS FOR BUILDING WALL, CEILING, FLOOR AND ROOF CONSTRUCTION.

PGN-7 NEW SANITARY DRAIN PIPING SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. WHERE POSSIBLE, THE SLOPE SHALL BE INCREASED IN COORDINATION WITH OTHER PIPING, DUCTS, OR STRUCTURAL WORK.

PGN-8 NEW RAIN LEADERS/STORM WATER PIPING SHALL BE PROVIDED WITH SLOPE OF MINIMUM 1/4" PER FOOT, AND SHALL BE MODIFIED AS REQUIRED, TO ACCOMMODATE DUCTWORK, ETC. PLUMBING CONTRACTOR SHALL INCLUDE AN ALLOWANCE OF 50 FEET OF 4" STORM WATER PIPING MODIFICATIONS.

PGN-9 PROVIDE WATER HAMMER ARRESTORS/SHOCK ABSORBERS IN WATER PIPING AS REQUIRED PER PDI GUIDELINES AND WHERE SHOWN ON PLANS/RISERS.

PGN-10 DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL OFFSETS, BENDS, ELBOWS, OR OTHER SPECIFIC ELEMENTS THAT MAY BE REQUIRED FOR PROPER INSTALLATION OF THE WORK. ADDITIONAL BENDS, VERTICAL AND HORIZONTAL OFFSETS AS REQUIRED BY VERTICAL AND HORIZONTAL EQUIPMENT LOCATIONS OR OTHER JOB CONDITIONS AND AS APPROVED BY OWNER, SHALL BE PROVIDED TO COMPLETE THE WORK, AT NO ADDITIONAL COST TO THE OWNER.

PGN-11 WHERE WATER PIPING DROPS IN EXTERIOR WALLS, INCREASE INSULATION TO MINIMUM 1" THICK.

PGN-12 PLUMBING FIXTURES AND EQUIPMENT ARE SPECIFIED BY MAKE AND MODEL NUMBER TO ESTABLISH A LEVEL OF QUALITY, DIMENSIONAL LIMITATIONS, AND PERFORMANCE CHARACTERISTICS. PRODUCTS OF OTHER MANUFACTURERS MAY BE OFFERED FOR APPROVAL. HOWEVER, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE SAME LEVEL OF QUALITY, DIMENSIONAL LIMITATIONS AND PERFORMANCE CHARACTERISTICS, AS WELL AS WARRANTY CERTIFICATION, TO THE FULL SATISFACTION OF THE OWNER.

PGN-13 AT THE COMPLETION OF THE PROJECT THE PLUMBING CONTRACTOR SHALL FURNISH "AS-BUILT" RECORD DRAWINGS FOR ALL THE PLUMBING WORK TO THE OWNER.

LEGEND

SYMBOL	DESCRIPTION
—·—·—·—	COLD WATER PIPING - DOMESTIC
—·—·—·—	HOT WATER PIPING - DOMESTIC
—HWR—	HOT WATER PIPING - RECIRCULATING
—TW—	TEMPERED WATER PIPING - DOMESTIC
— — —	SANITARY/WASTE DRAINAGE PIPING
--------	VENT PIPING
- - - - -	STORM WATER DRAINAGE PIPING
—SW— [XXX]	STORM WATER PIPING [TRIBUTARY ROOF AREA IN S.F.]
—SSW— [XXX]	SECONDARY (OVERFLOW) STORM WATER PIPING [TRIBUTARY ROOF AREA IN S.F.]
— G — —	NATURAL GAS PIPING
—CD—	CONDENSATE PIPING
—A—	COMPRESSED AIR PIPING
—AF—	ANTI-FREEZE PIPING
—DO—	DIFFERENTIAL OIL PIPING
—MO—	MOTOR OIL PIPING
—ATF—	AUTOMATIC TRANSMISSION FLUID PIPING
—CG—	CHASSIS GREASE PIPING
—WW—	WINDSHIELD WASHER FLUID
—WAF—	WASTE ANTIFREEZE FLUID PIPING
—N—	NITROGEN PIPING
	CLEAN OUT, WALL CLEAN OUT
	FLOOR CLEAN OUT
	FLOOR DRAIN
[XXX]	ROOF DRAIN [TRIBUTARY ROOF AREA IN S.F.]
	AREA DRAIN
BFP	BACK FLOW PREVENTER ASSEMBLY
	BALL/GATE/GLOBE SHUT-OFF VALVE
	CAP OR PLUG PIPE END
	CHECK VALVE
	VALVE IN VERTICAL
	PIPE ELBOW TURNED UP
	PIPE ELBOW TURNED DOWN
	UNION
	FLEX PIPE
	PIPE INCREASER
	PIPE REDUCER
X	DRAWING KEY NOTE
XXXX	ROOM NUMBER
	BALANCING VALVE/CIRCUIT SETTER

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR OR AREA DRAIN
ADR	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMD	AIR MEASURING DEVICE/STATION
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BAL	BALANCE
BDD	BACK DRAFT DAMPER
BE	BOTTOM ELEVATION
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BLW	BELOW
BV	BALANCING & SHUT OFF VALVE
BVF	BALANCING & SHUT OFF VALVE WITH FLOW METER FITTING
C	COMMON
CA	COMPRESSED AIR
CAS	COMPRESSED AIR STATION
CD	CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CFT	CUBIC FEET
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CO	CLEAN OUR
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUATION
CW	COLD WATER (DOMESTIC) OR CHASSIS WASH
CX	CONNECT TO EXISTING
DB	DRY BULB
DEG	DEGREE
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
ELEC	ELECTRICAL
ELEV	ELEVATION
ETR	EXISTING TO REMAIN
EXP	EXPANSION
EXT	EXPANSION TANK OR EXTERIOR
EWC	ELECTRICAL WATER COOLER
EWH	ELECTRICAL WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
F	FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDT	FOUNDATION DRAIN TILE
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FLEX	FLEXIBLE
FLR	FLOOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT OR '	FEET
FSP	FIRE STAND PIPE
FS	FLOW SWITCH
FSK	FLOOR SINK
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER

ABBREVIATIONS (CONTINUED)

ABBREVIATION	DESCRIPTION
H	HEIGHT
HB	HOSE BIBB
HDR	HEADER
HED	HOSE END DRAIN
HP	HORSE POWER
HR	HOT WATER RETURN
HS	HOT WATER SUPPLY
HW	HOT WATER 140°(DOMESTIC)
HWMV	HOT WATER MIXING VALVE
HWR OR HWC	HOT WATER RECIRCULATING
HZ	HERTZ
IMC	INSULATED METAL CASING
IN OR "	INCH
INV	INVERT ELEVATION
L	LENGTH
MAV	MANUAL AIR VENT
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NO. OR #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OWP	OIL/WATER PUMP
PD	PRESSURE DROP
PH	PHASE
PRES	PRESSURE
PSI	POUNDS PER SQUARE INCH
PWW	PRESSURE WASH WATER SUPPLY
RD	ROOF DRAIN
RECT	RECTANGULAR
REQD	REQUIRED
RL	RAIN LEADER
RX	REMOVE EXISTING
RPBFP	REDUCED PRESSURE BACK FLOW PREVENTER
SAN	SANITARY
SCHD	SCHEDULE
SD	STORM DRAIN
SF	SQUARE FEET
SHK	SHOCK ABSORBER
SP	STATIC PRESSURE
SPD	SUMP PUMP DISCHARGE
SPKR	SPRINKLER
SQFT	SQUARE FEET
SS	STAINLESS STEEL
SRD	SECONDARY (OVERFLOW) ROOF DRAIN
SRL	SECONDARY (OVERFLOW) RAIN LEADER
SSW	SECONDARY (OVERFLOW) STORM WATER
SW	STORM WATER
TPP	TRAP PRIMER PANEL
TP OR TPL	TRAP PRIMING LINE
TRANS	TRANSITION
TYP	TYPICAL
TS	TRANSFER SWITCH
TW	TEMPERED WATER 110°F(DOMESTIC)
USF	UNDERGROUND SANDFILTER
V	VOLT
VC OR VCO	CLEAN OUT IN VERTICAL PIPE
VTR	VENT THROUGH ROOF
W	WIDTH
W/	WITH
WB	WET BULB
WCO	WALL CLEAN OUT
WH	WATER HYDRANT
WOB	WASTE OIL BOILER

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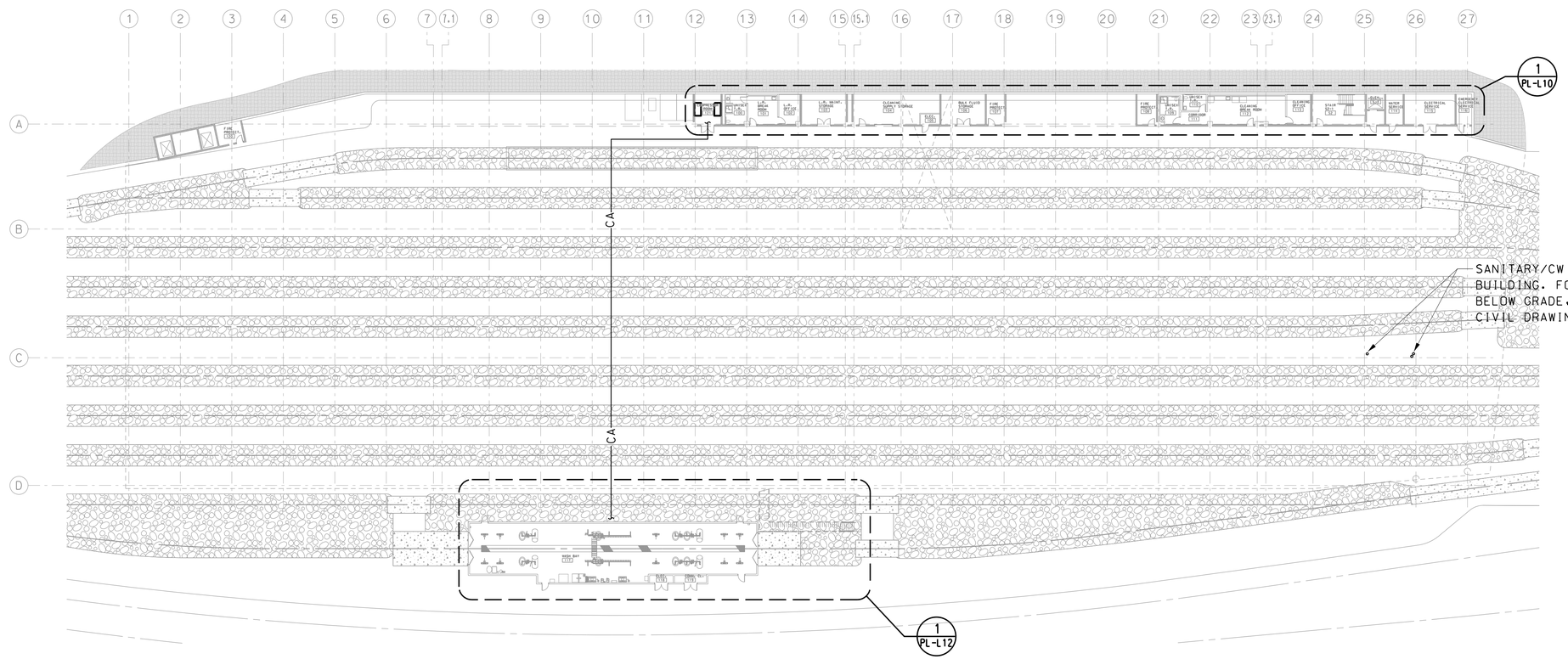
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
GENERAL NOTES AND ABBREVIATIONS
DATE: DECEMBER 2013 SCALE: NONE

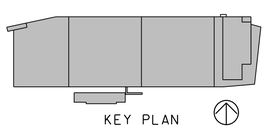
CONTRACT NO. T-1042-0220
DRAWING NO. PL-L01
SHEET NO. 126 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA01.dgn
11/15/2013



YARD LEVEL COMPOSITE PLAN

SCALE: 1" = 30'



30' 0 30' 60'

SCALE: 1"=30'

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

YARD LEVEL COMPOSITE PLAN – PLUMBING

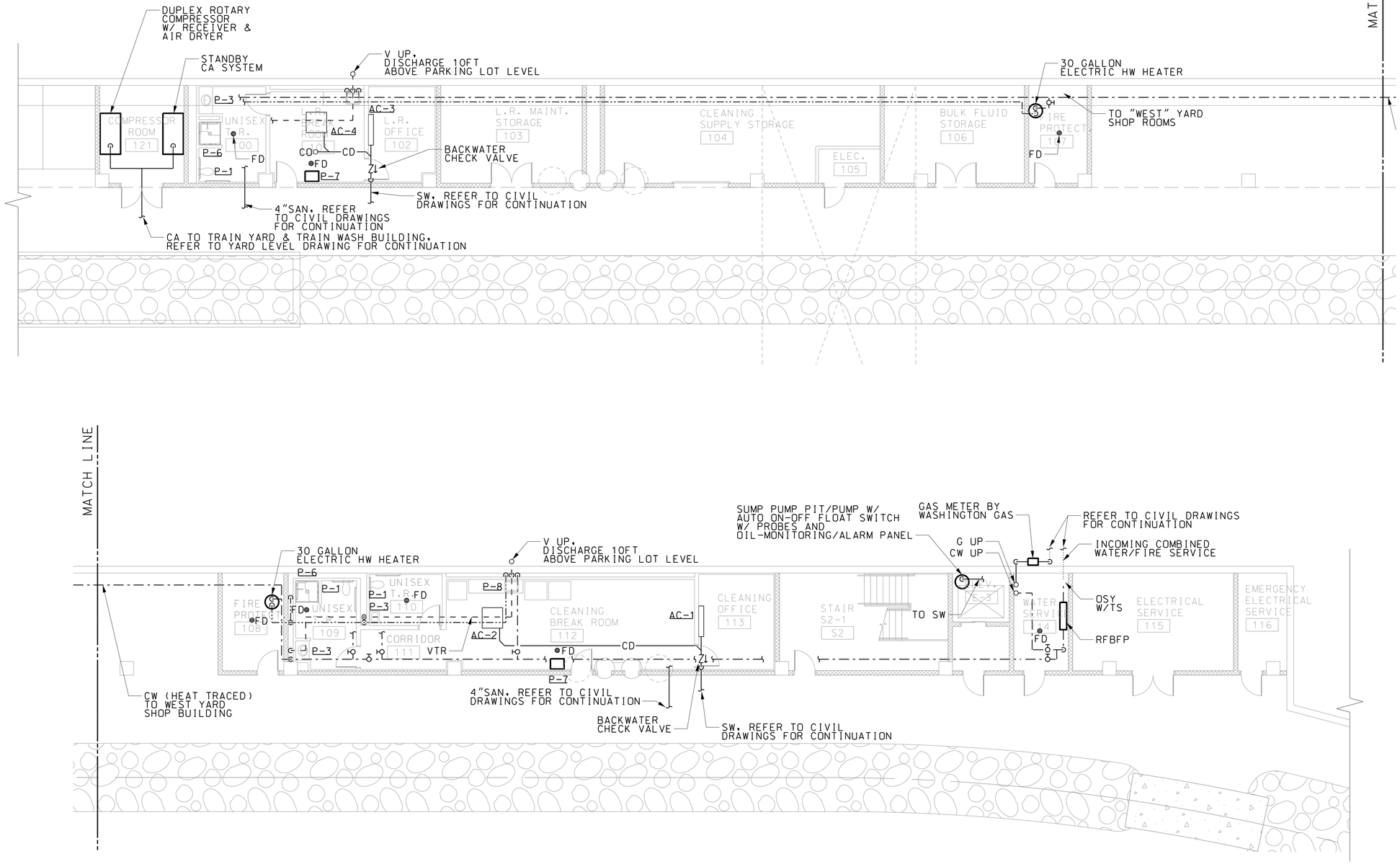
DATE: DECEMBER 2013 SCALE: 1" = 30'

CONTRACT NO. T–1042–0220

DRAWING NO. PL–L05

SHEET NO. 127 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA05.dgn
11/15/2013



1 PL-L10 YARD LEVEL FLOOR PLAN - PLUMBING

SCALE: 1/8"=1'-0"
REF: PL-L05

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

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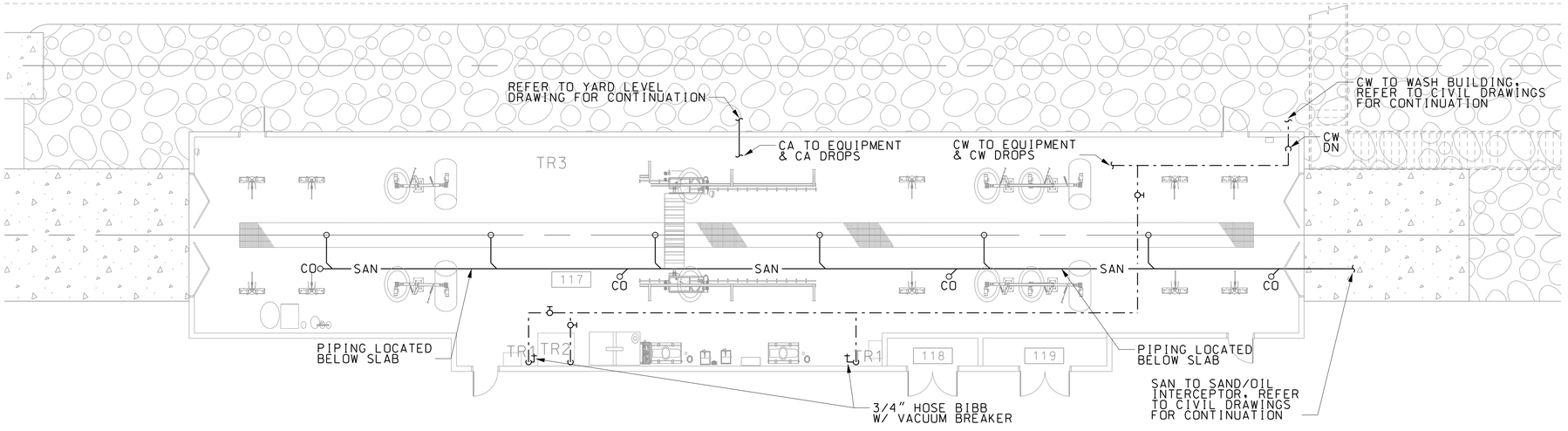
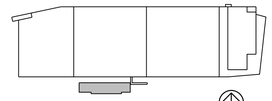
DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
YARD LEVEL FLOOR PLAN – PLUMBING
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L10
SHEET NO. 128 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA10.dgn
11/26/2013





1 / PL-L12 **WASH BUILDING FLOOR PLAN - PLUMBING**

SCALE: 1/8"=1'-0"

REF: PL-L05

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BLDG FLOOR PLAN – PLUMBING

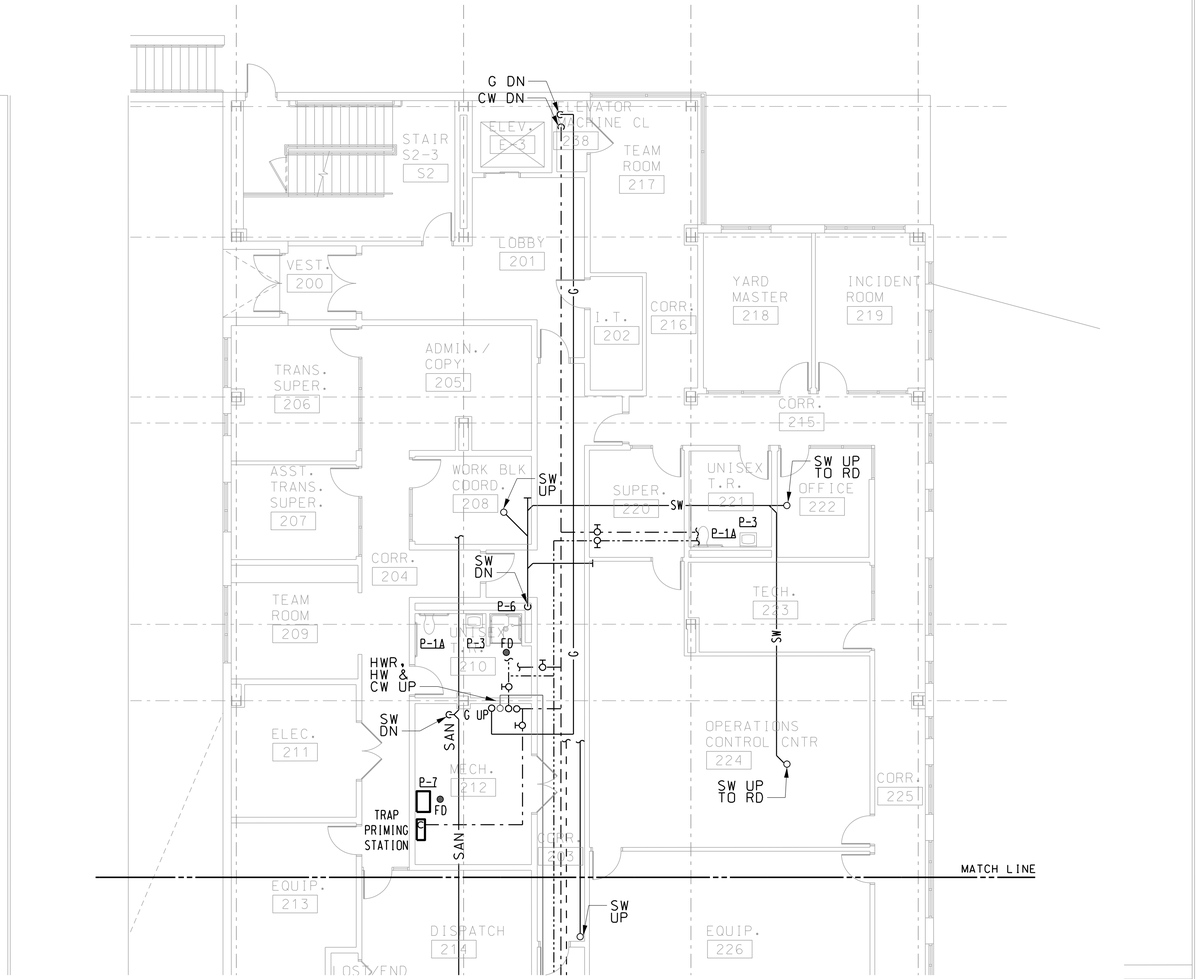
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

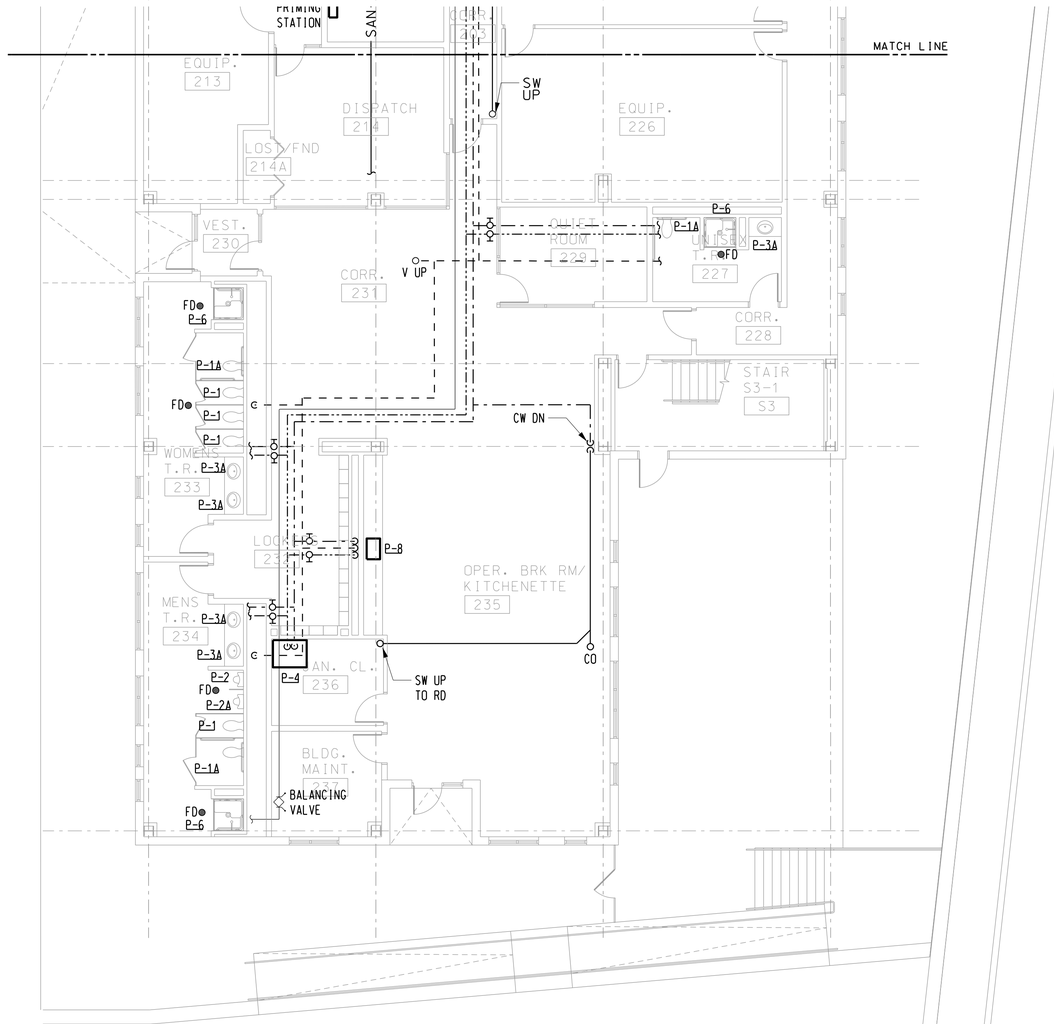
CONTRACT NO. T-1042-0220

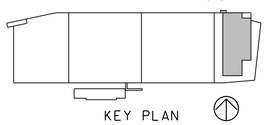
DRAWING NO. PL-L12

SHEET NO. 129 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA12.dgn
11/15/2013







DRAWING NOTE:
A. REFER TO YARD LEVEL PLUMBING DRAWING. FOR SANITARY PIPING ASSOCAITED WITH FIXTURES ON FIRST FLOOR.

1 / PL-L13 OFFICE FIRST FLOOR PLAN - PLUMBING

SCALE: 1/8"=1'-0"

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

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

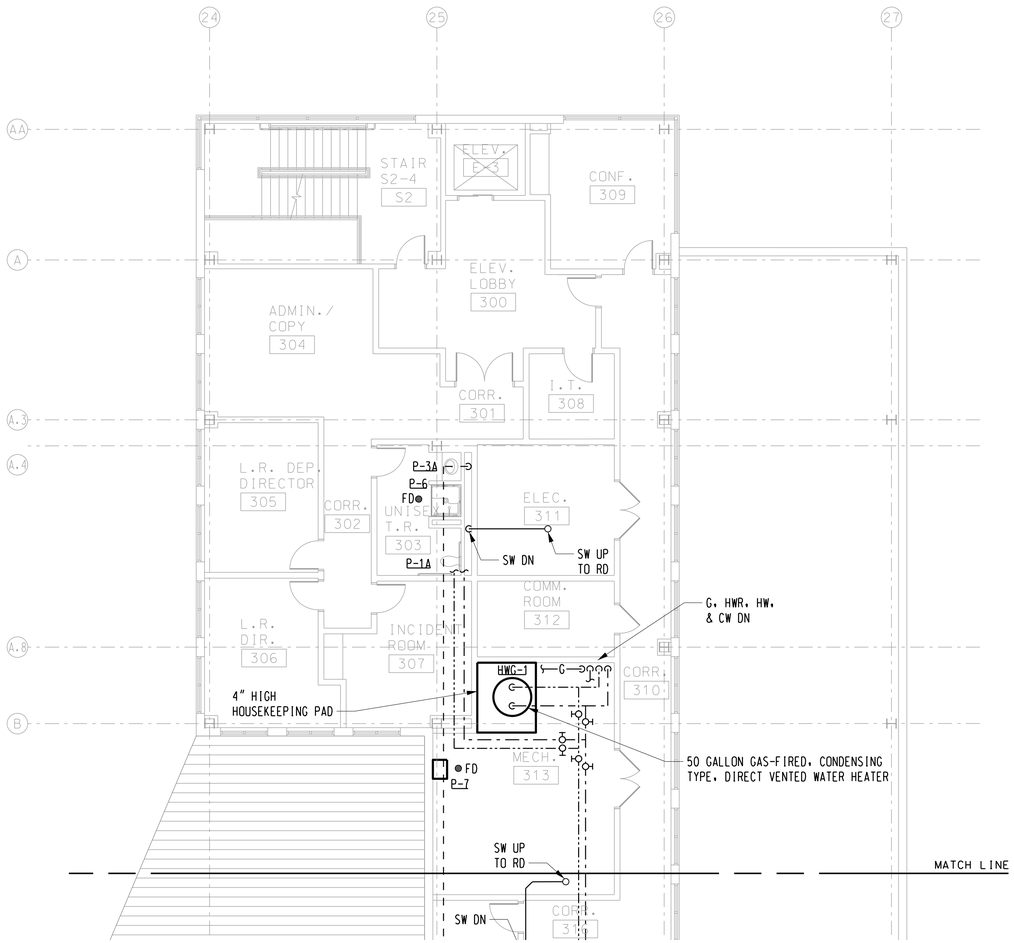
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

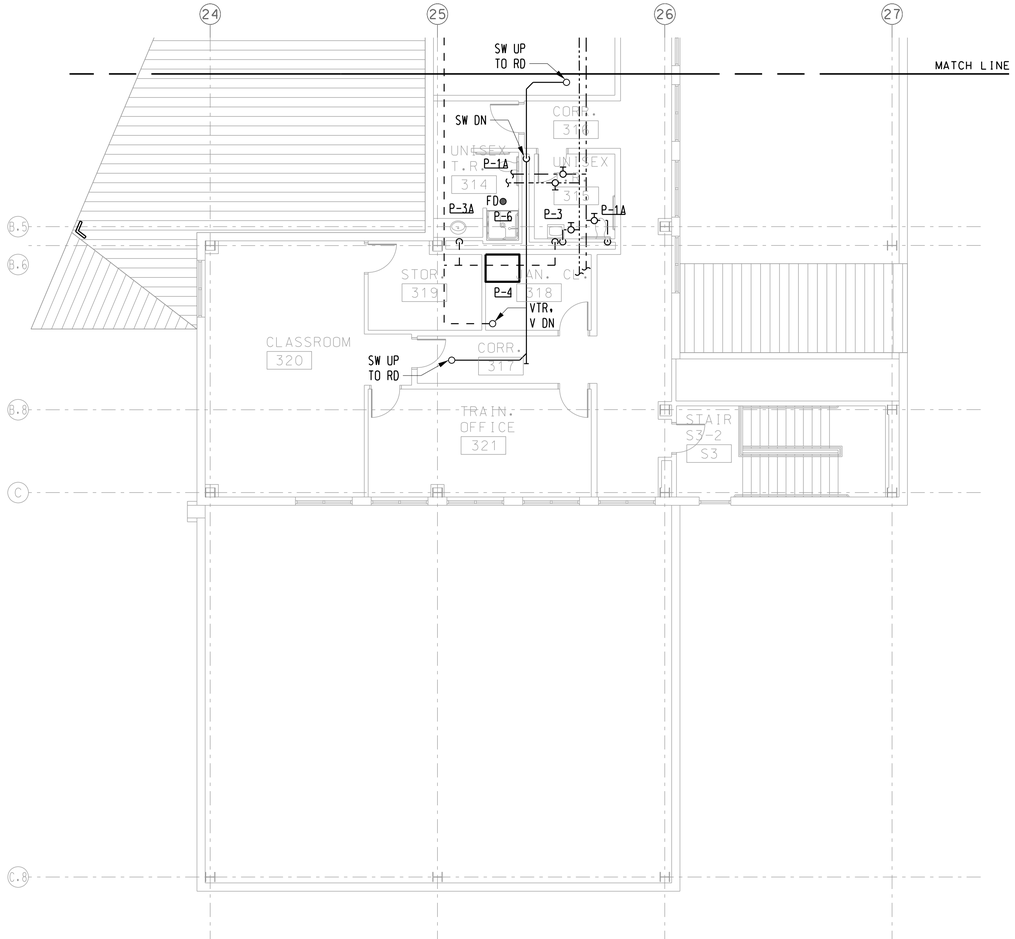
LYTTONSVILLE YARD FACILITY
OFFICE FIRST FLOOR PLAN – PLUMBING

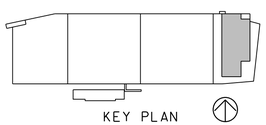
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L13
SHEET NO. 130 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA13.dgn
11/15/2013







1 PL-L14 **OFFICE SECOND FLOOR PLAN - PLUMBING**

SCALE: 1/8"=1'-0"

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE SECOND FLOOR PLAN – PLUMBING

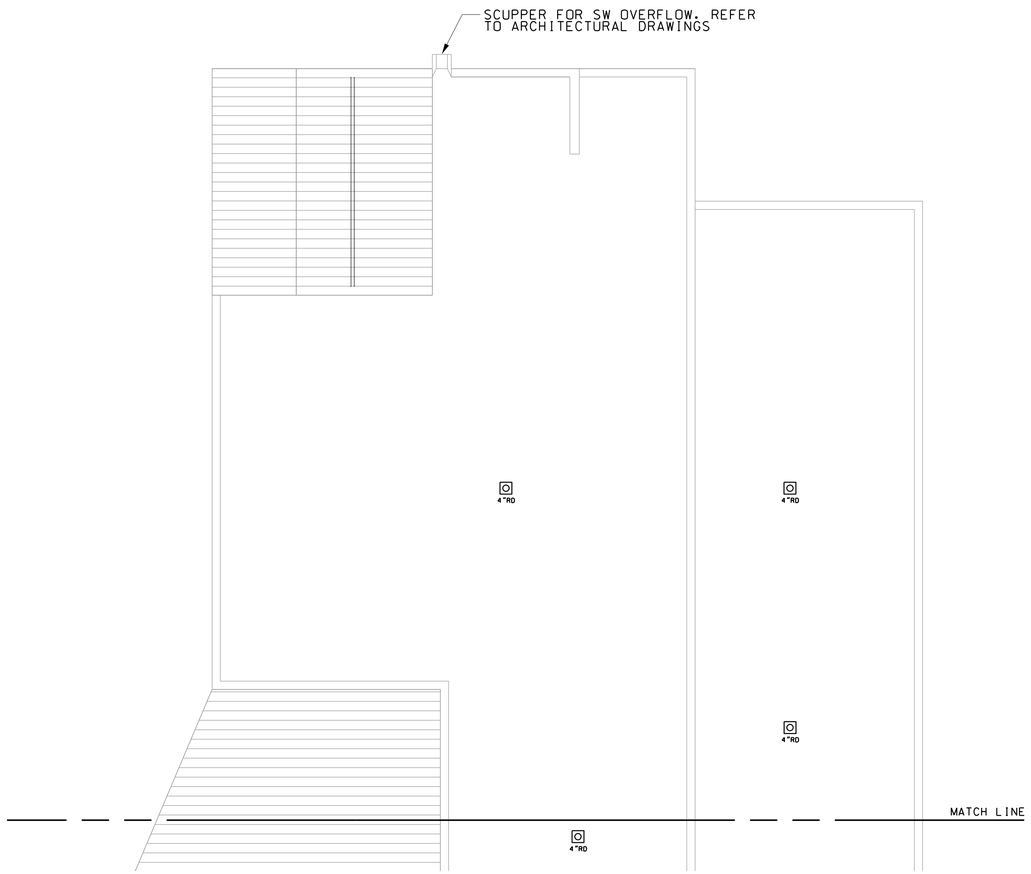
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. PL-L14

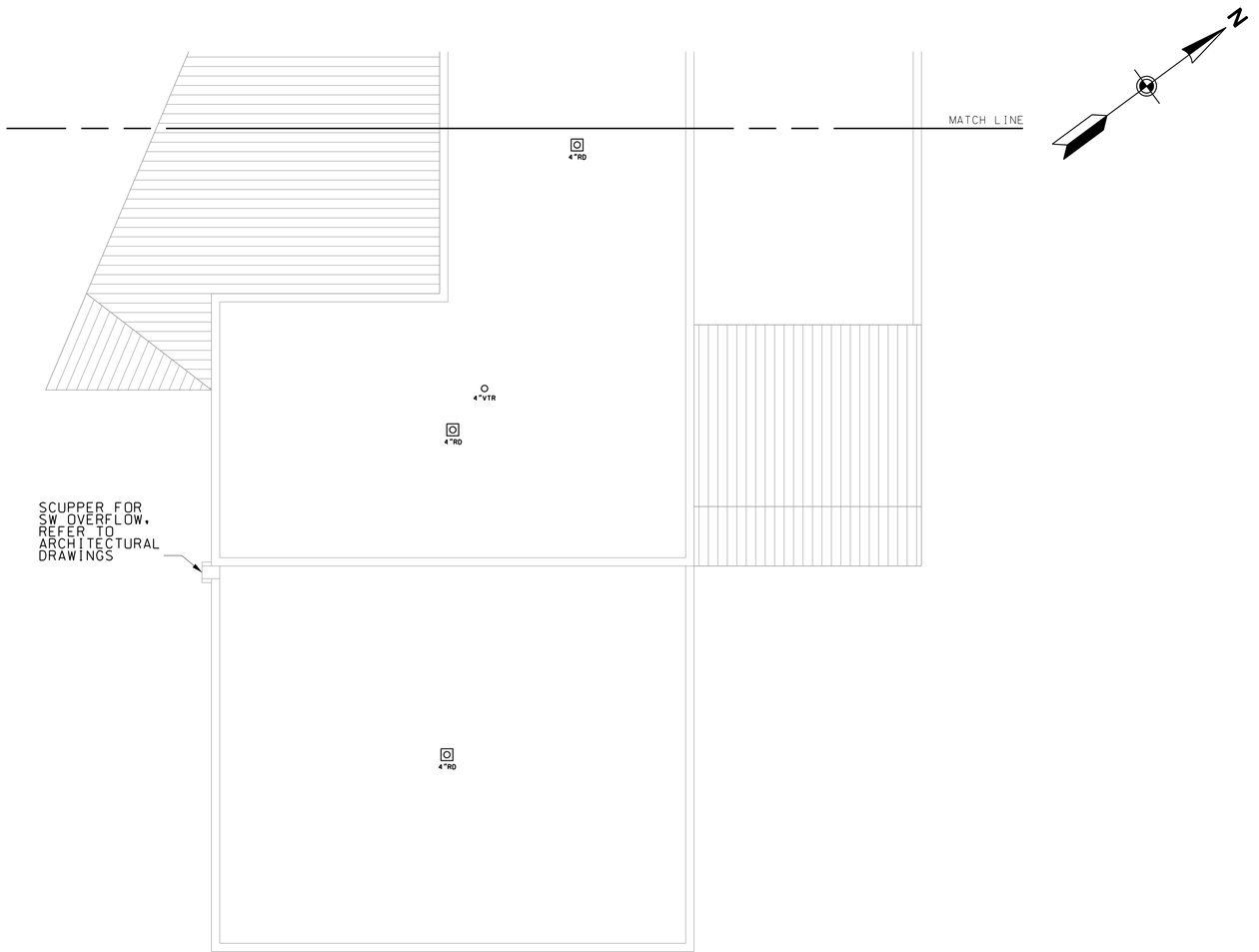
SHEET NO. 131 OF 443

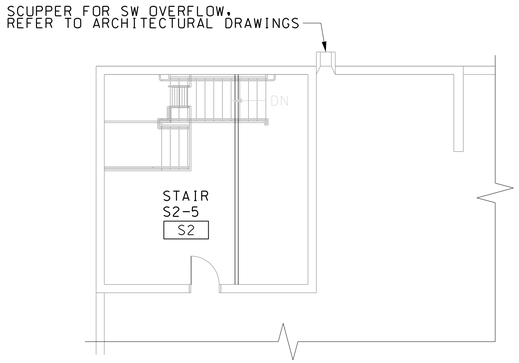
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA14.dgn
11/15/2013



OFFICE ROOF PLAN

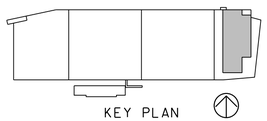
SCALE: 1/8"=1'-0"





OFFICE ROOF STAIR PLAN

SCALE: 1/8"=1'-0"



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DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

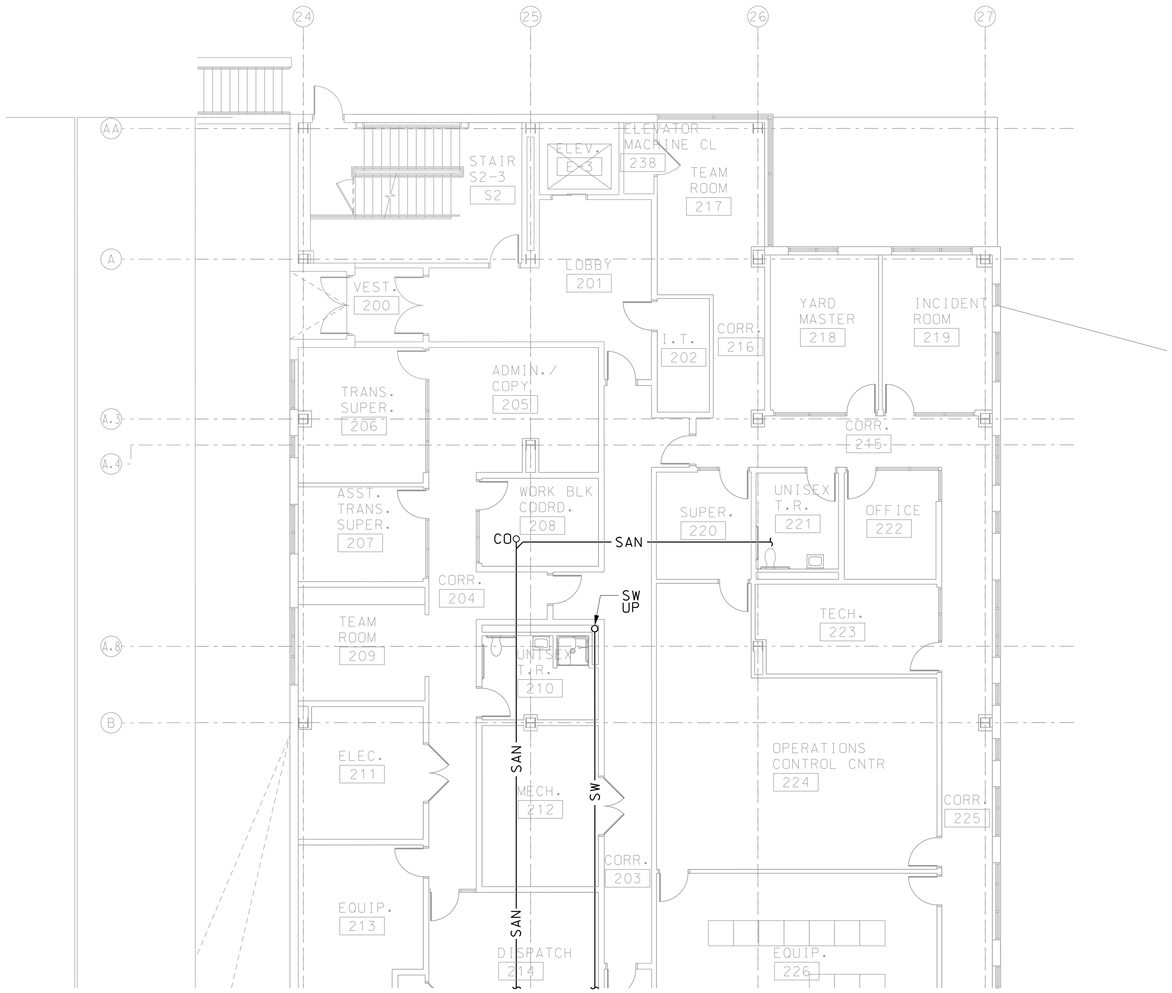
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

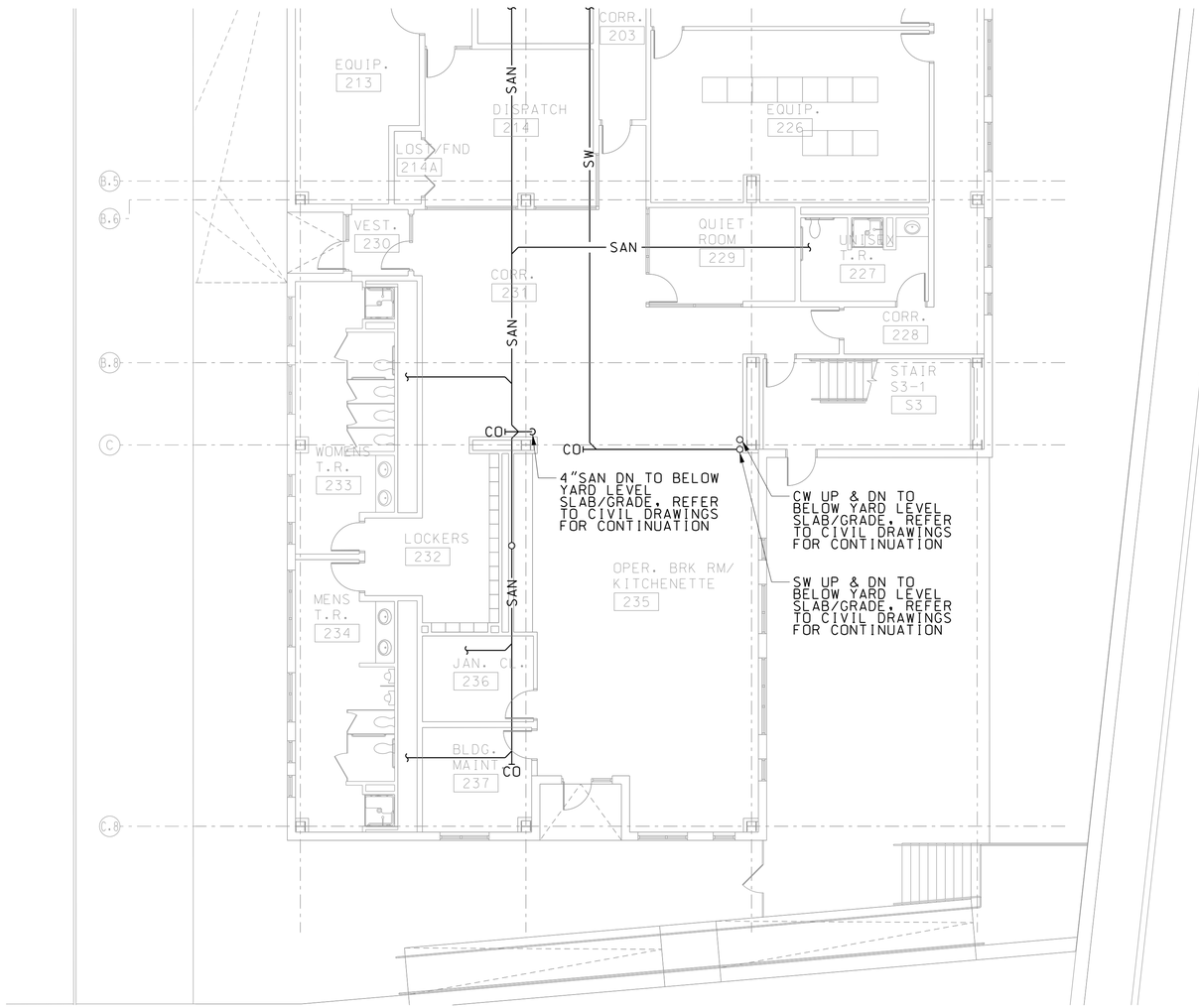
LYTTONSVILLE YARD FACILITY
OFFICE ROOF PLAN – PLUMBING

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

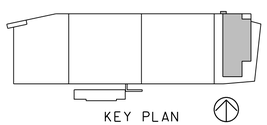
CONTRACT NO. T-1042-0220
DRAWING NO. PL-L15
SHEET NO. 132 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA15.dgn
11/15/2013





DRAWING NOTE:
A. ALL PIPING SHOWN IS LOCATED BELOW FIRST FLOOR SLAB EXPOSED. ALL CW, SW, AND SANITARY PIPING SHALL BE HEAT TRACED INCLUDING TRAPS AND TRAP PRIMER PIPING.



1 PL-L16 OFFICE YARD LEVEL PLAN - PLUMBING

SCALE: 1/8"=1'-0"

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

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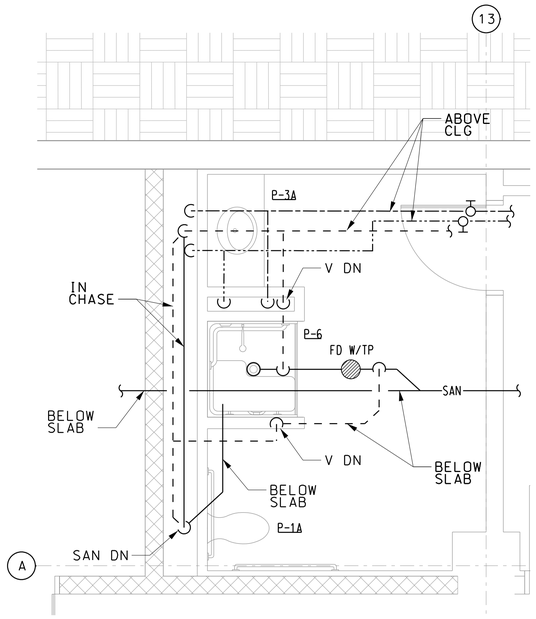
DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

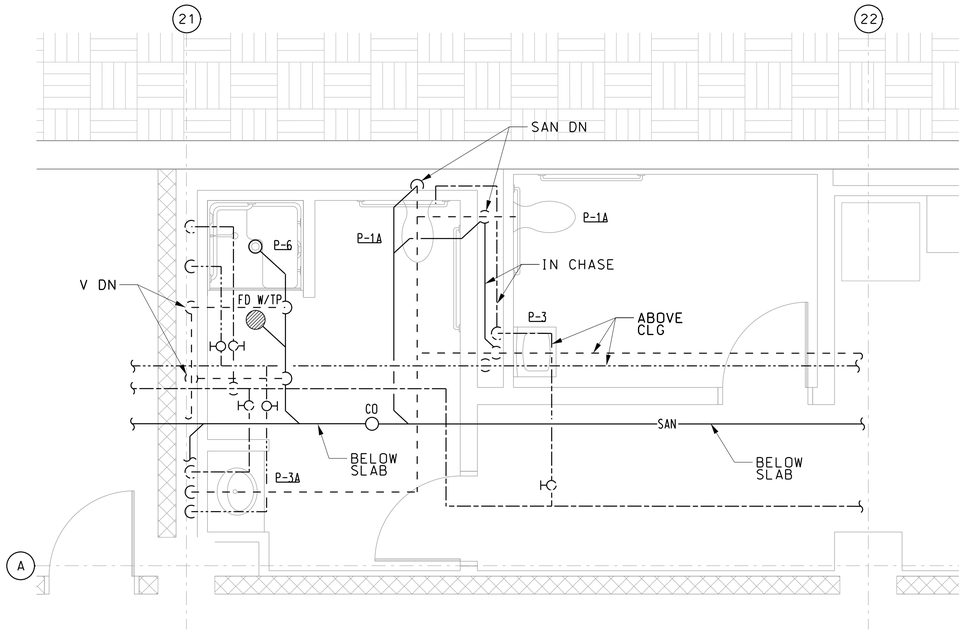
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
OFFICE YARD LEVEL PLAN – PLUMBING
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L16
SHEET NO. 133 OF 443

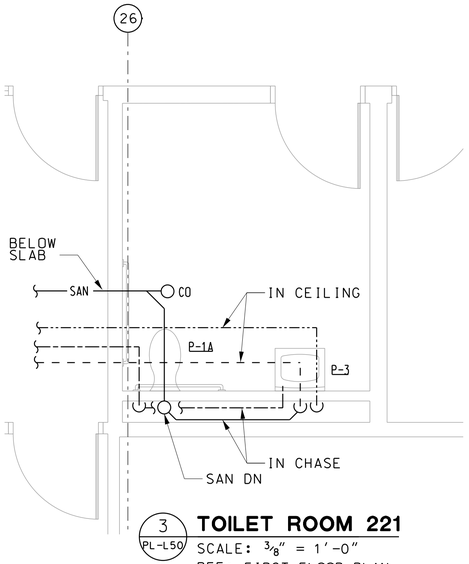
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA16.dgn
11/15/2013



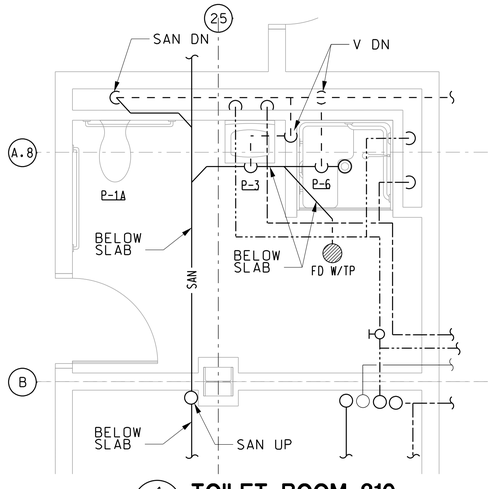
1 PL-L50 **TOILET ROOM 100**
SCALE: 3/8" = 1'-0"
REF: YARD LEVEL



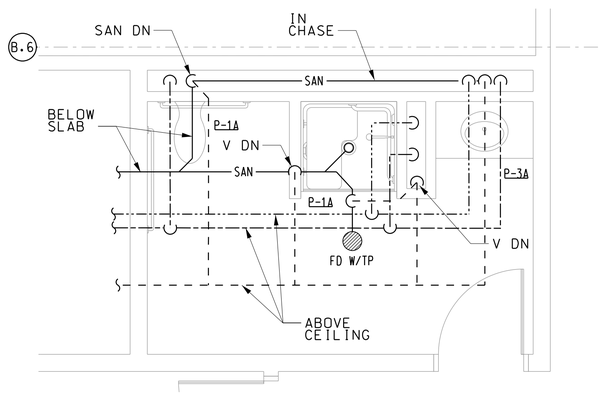
2 PL-L50 **TOILET ROOMS 109 & 111**
SCALE: 3/8" = 1'-0"
REF: YARD LEVEL



3 PL-L50 **TOILET ROOM 221**
SCALE: 3/8" = 1'-0"
REF: FIRST FLOOR PLAN



4 PL-L50 **TOILET ROOM 210**
SCALE: 3/8" = 1'-0"
REF: FIRST FLOOR PLAN



5 PL-L50 **TOILET ROOM 227**
SCALE: 3/8" = 1'-0"
REF: FIRST FLOOR PLAN

2' 0 2' 4'
SCALE: 1/2"=1'-0"
4' 0 4' 8'
SCALE: 3/8"=1'-0"

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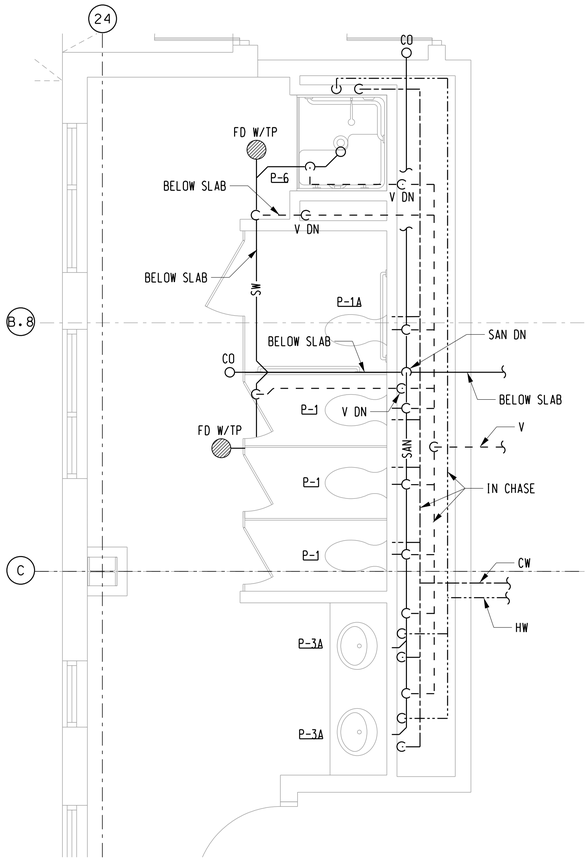
DESIGN VH
DRAWN GK
CHECK VH
APPR

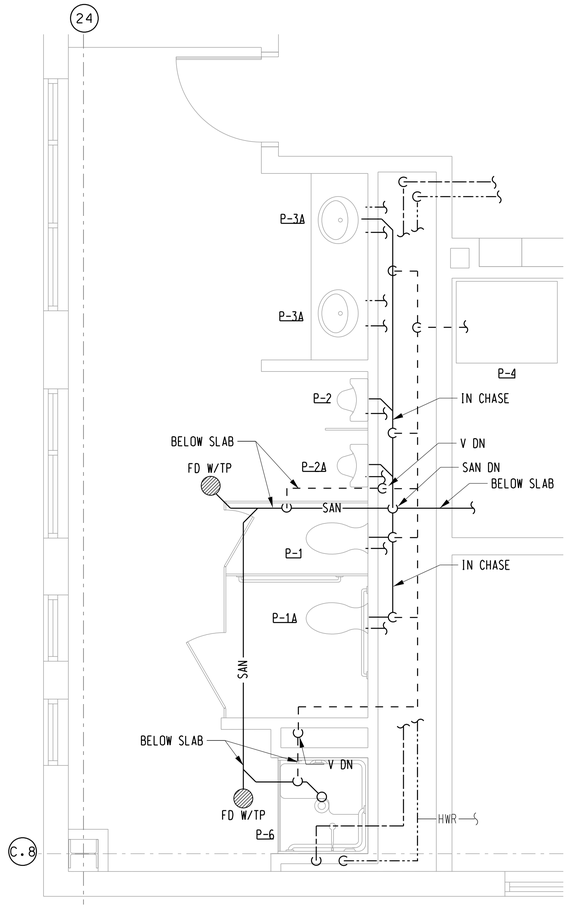
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ENLARGED TOILET ROOM PLANS – PLUMBING
DATE: DECEMBER 2013 SCALE: AS SHOWN

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L50
SHEET NO. 134 OF 443

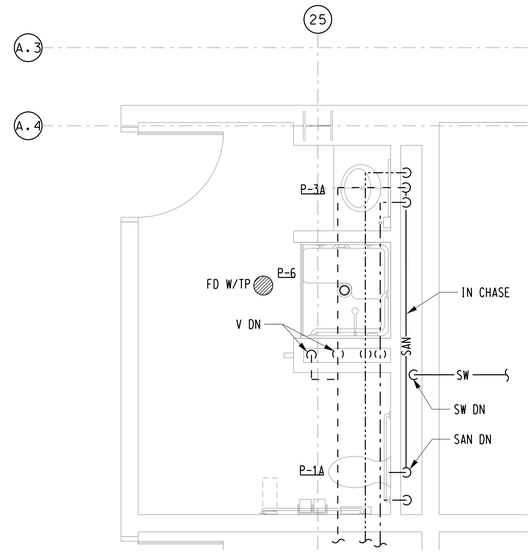
pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA50.dgn
11/15/2013



1 PL-L51 **TOILET ROOM 233**
SCALE: 3/8" = 1'-0"
REF: FIRST FLOOR PLAN

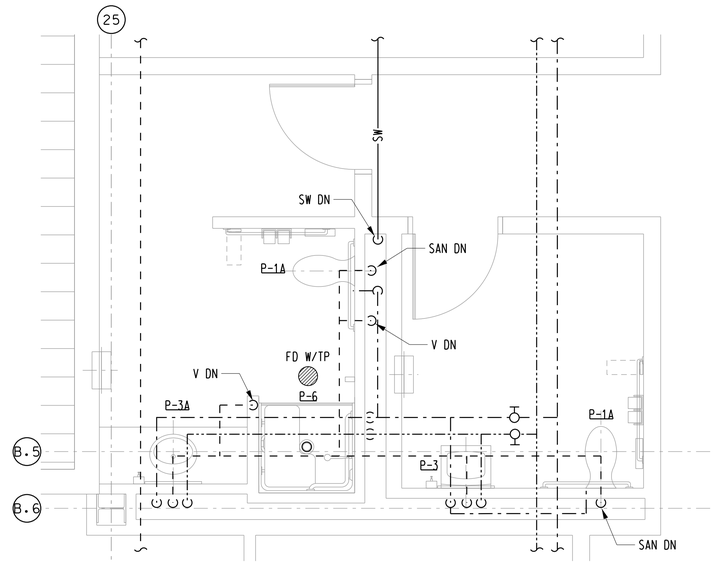


2 PL-L51 **TOILET ROOM 234**
SCALE: 3/8" = 1'-0"
REF: FIRST FLOOR PLAN



(REFER TO SECOND FLOOR FOR SANITARY PIPING)

3 PL-L51 **TOILET ROOM 303**
SCALE: 3/8" = 1'-0"
REF: SECOND FLOOR PLAN



(REFER TO SECOND FLOOR FOR SANITARY PIPING)

4 PL-L51 **TOILET ROOM 313 & 314**
SCALE: 3/8" = 1'-0"
REF: SECOND FLOOR PLAN

4' 0 4' 8'
SCALE: 3/8"=1'-0"

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DESGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
ENLARGED TOILET ROOM PLANS – PLUMBING
DATE: DECEMBER 2013 SCALE: 3/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L51
SHEET NO. 135 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA51.dgn
11/15/2013

PLUMBING FIXTURE SCHEDULE

P #	DESCRIPTION	CW	HW	SAN	VENT	TRAP	REMARKS
P-1	WATER CLOSET	1"	-	4"	2"	INT.	
P-1A	WATER CLOSET	1"	-	4"	2"	INT.	SEE NOTE No. 6
P-2	URINAL	3/4"	-	2"	1 1/2"	INT.	SEE NOTE No. 5
P-2A	URINAL	3/4"	-	2"	1 1/2"	INT.	SEE NOTE No. 6
P-3	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	'P'	SEE NOTE No. 6
P-3A	LAVATORY	1/2"	1/2"	1 1/2"	1 1/2"	'P'	SEE NOTE No. 4
P-4	MOP BASIN	3/4"	3/4"	3"	1 1/2"	'P'	
P-5	WATER COOLER	1/2"	-	1 1/2"	1 1/2"	'P'	SEE NOTE No. 7
P-6	SHOWER	1/2"	1/2"	2"	2"	'P'	
P-7	EMERGENCY EYE WASH/SHOWER	1 1/4"	-	1 1/2"	1 1/2"	'P'	
P-8	COUNTERTOP SINK	1/2"	1/2"	1 1/2"	-	'P'	
HB	HOSE BIBB	1/2"	-	-	-	-	
2" FD	FLOOR DRAIN (2")	-	-	2"	-	'P'	
3" FD	FLOOR DRAIN (3")	-	-	3"	-	'P'	
4" FD	FLOOR DRAIN (4")	-	-	4"	-	'P'	

NOTES:

1. FIXTURE PROVIDED UNDER ANOTHER DIVISION. UNDER THIS DIVISION, PROVIDE ROUGH-IN AND FINAL CONNECTION.
2. HANDICAPPED, RIM OF FIXTURE SHALL BE 17" ABOVE FINISHED FLOOR
3. COUNTERTOP MOUNTED
4. HANDICAPPED, COUNTERTOP MOUNTED
5. WALL HUNG
6. HANDICAPPED, WALL HUNG
7. HANDICAPPED, WATER COOLER SPOUT SHALL BE 36" ABOVE FINISHED FLOOR
8. PROVIDE CAST IRON TRAP W/ CLEANOUT

MARYLAND DEPARTMENT OF TRANSPORTATION
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MTA Maryland

Gannett Fleming
WR&A

PAULCO Engineering, Inc.
Columbia, MD

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland

License No. Expiration Date

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DESIGN	VH
DRAWN	GK
CHECK	VH
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PLUMBING SCHEDULE

DATE: DECEMBER 2013 SCALE: NONE

CONTRACT NO. T-1042-0220
DRAWING NO. PL-L80
SHEET NO. 136 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Plumbing\Sheet Files\1042pPLLA80.dgn
12/9/2013

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERES INTERRUPTING CAPACITY. (SYM. RMS AMPS)
AL	ALUMINUM
ANNUN	ANNUNCIATOR
AS	AMMETER SWITCH
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BCSD	BARE COPPER SOFT DRAWN
BFC	BELOW FINISHED CEILING
BFI	BLOWN FUSE INDICATOR
BFG	BELOW FINISHED GRADE
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CC1	POWER/CONTROL/INSTRUMENTATION CABLE RUN NUMBER AS INDICATED.
CKT	CIRCUIT
COMB	COMBINATION
CLG	CEILING
CP	CONTROL PANEL
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
CX	CONNECT TO EXISTING
CCTV	CLOSED CIRCUIT TELEVISION
DAS	DATA ACQUISITION SYSTEM
DC	DIRECT CURRENT
O/D	OUTDOOR
DISC	DISCONNECT
DN	DOWN
DP	DISTRIBUTION PANEL
DPC	DISTRIBUTED PROCESS CONTROLLER
DWG	DRAWING
EA	EACH
EC	EMPTY CONDUIT
ECD	ELEMENTARY CONTROL DIAGRAM
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEV	ELEVATION
EMERG.	EMERGENCY
EMH	ELECTRIC MANHOLE
EMT	ELECTRIC METALLIC TUBING
ENCL	ENCLOSURE
E/O	ELECTRICALLY/OPERATED
EQUIP	EQUIPMENT
ETM	ELAPSED TIME METER
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EX. EXIS	EXISTING
EXP	EXPLOSION PROOF
F	FUSE
FA	FRAME AMPS
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS UNDER SEPARATE CONTRACT
FC	FAN COIL UNIT
FDR	FEEDER
FL	FLOOR
FLEX	FLEXIBLE
FMC	FLEXIBLE METAL CONDUIT
FS	FLOW SWITCH
FSS	FUSED SAFETY SWITCH
FT	FOOT OR FEET
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED
GFP	GROUND FAULT PROTECTION
HID	HIGH INTENSITY DISCHARGE
HH	HANDHOLE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HTR	HEATER
HV	HIGH VOLTAGE
HZ	HERTZ
ICCB	INSULATED CASE CIRCUIT BREAKER
IDS	INTRUSION DETECTION SYSTEM
IMC	INTERMEDIATE METALLIC CONDUIT
JB	JUNCTION BOX
KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
KV	KILOVOLT
KVA	KILOVOLT AMPERE
LTG	LIGHTING
LO	LOCKOUT
LP	LIGHTING AND APPLIANCE PANEL
LT/FMC	LIQUID TIGHT/FLEXIBLE METAL CONDUIT
LS	LIMIT SWITCH
LSH	LEVEL SWITCH HIGH
MAFC	MAKE ALL FINAL CONNECTIONS
M/C	MULTI/CONDUCTOR
MCB	MAIN CIRCUIT BREAKER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MH	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOD	MOTOR OPERATED DAMPER
MO	METAL OXIDE
MSP	MOTOR STARTER PANEL
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFSS	NON FUSED SAFETY SWITCH
NO	NORMALLY OPEN
NO	NUMBER
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OL	OVERLOAD
P	POLE OR POLES
PB	PUSH BUTTON
PH	PHASE
PL	PILOT LIGHT
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANELBOARD
PS	PRESSURE SWITCH
PSH	PRESSURE SWITCH HIGH
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
RC	REMOTE CONTROL
RECEPT	RECEPTACLE
REQ'D	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RMS	ROOT MEAN SQUARE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RX	REMOVE EXISTING
SER.	SERVICE
SF	SUPPLY FAN
SG1-1A/P	SWGR POWER WIRE RUN NUMBER - SWGR NUMBER AND UNIT NUMBER AS INDICATED
SIC	SYMMETRICAL INTERRUPTING CURRENT
SOPN	SPACE OR POLE NUMBER
SPPS	SOUND POWERED PHONE SYSTEM
SS	STAINLESS STEEL
SS	SAFETY SWITCH
ST	SHUNT TRIP
STA	STATION
STP	SHIELDED TWISTED PAIR
STPS	SHIELDED TWISTED PAIR OVER ALL SHIELD
STR	STARTER
STT	SHIELDED TWISTED TRIPLE
S/N	SOLID NEUTRAL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
SYS	SYSTEM
TA	TRIP AMPS
TC	TIME CLOCK
TDD	TIME DELAY DE-ENERGIZED (OFF)
TDE	TIME DELAY ENERGIZED (ON)
TDC	TIME DELAY CLOSE
TDO	TIME DELAY OPEN
TMH	TELEPHONE MANHOLE
TP	TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TST	THERMOSTAT SWITCH IN AUTO-TRANSFORMER STARTER
TTB/TTC	TELEPHONE TERMINAL BOARD/CABINET
TYP	TYPICAL
UH	UNIT HEATER
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS OR VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
W	WIRE
W/	WITH
WP	WEATHERPROOF
XFMR	TRANSFORMER
*	CENTER LINE
*	PHASE
@	AT
#	NUMBER

FEEDER/CONDUIT SCHEDULE

120 OR 277 VOLT, 1 PH, 2W CIRCUITS.	
CIRCUIT BREAKER	CONDUCTOR
20A - 1P	2#12 & 1#12 GND - 3 /4"C
30A - 1P	2#10 & 1#10 GND - 3 /4"C
40A - 1P	2#8 & 1#10 GND - 3 /4"C
50A - 1P	2#6 & 1#10 GND - 1"C
60A - 1P	2#6 & 1#10 GND - 1"C

208 VOLT, 1 PH, 2W CIRCUITS.	
CIRCUIT BREAKER	CONDUCTOR
20A - 2P	2#12 & 1#12 GND - 3 /4"C
30A - 2P	2#10 & 1#10 GND - 3 /4"C
40A - 2P	2#8 & 1#10 GND - 3 /4"C
50A - 2P	2#6 & 1#10 GND - 1"C
60A - 2P	2#6 & 1#10 GND - 1"C

208 OR 480 VOLT, 3 PH, 3W CIRCUITS.	
CIRCUIT BREAKER	CONDUCTOR
20A - 3P	3#12 & 1#12 GND - 3 /4"C
30A - 3P	3#10 & 1#10 GND - 3 /4"C
40A - 3P	3#8 & 1#10 GND - 3 /4"C
50A - 3P	3#6 & 1#10 GND - 1"C
60A - 3P	3#6 & 1#10 GND - 1"C

120/208 AND 277/480 VOLT, 3 PH, 4W CIRCUITS.	
CIRCUIT BREAKER	CONDUCTOR
20A - 3P	4#12 & 1#12 GND - 3 /4"C
30A - 3P	4#10 & 1#10 GND - 3 /4"C
40A - 3P	4#8 & 1#10 GND - 3 /4"C
50A - 3P	4#6 & 1#10 GND - 1"C
60A - 3P	4#6 & 1#10 GND - 1"C

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE LATEST NATIONAL ELECTRICAL CODE AND THE REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.

2. CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. IN AS MUCH AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC BECAUSE OF THE SMALL SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED. FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY.

3. EXAMINE THE SITE AND OBSERVE THE CONDITIONS OR OTHER CIRCUMSTANCES UNDER WHICH THE WORK WILL BE DONE WHICH WILL AFFECT THE CONTEMPLATED WORK.

4. VERIFY EXACT LOCATION, SIZE, AND EXTENT OF ALL EXISTING OBSTRUCTIONS AND/OR CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. TAKE EVERY PRECAUTION TO PREVENT DAMAGE TO EXISTING WORK AND REPAIR ANY DAMAGE AS A RESULT OF THIS WORK.

5. COORDINATE ELECTRICAL WORK INCLUDING LIGHTING FIXTURE LOCATIONS WITH ALL MECHANICAL PIPING AND DUCT WORK TO AVOID INTERFERENCE.

6. PROVIDE CONNECTORS AND APPROPRIATE FITTINGS AT ALL LOCATIONS WHERE REQUIRED BY CODE AND/ OR REQUESTED BY ENGINEER. PROVIDE ADDITIONAL JUNCTION BOXES OR PULL BOXES NOT SHOWN BUT REQUIRED BY CODE DUE TO NUMBER OF BENDS WHERE CONDUITS CROSS THE BUILDING EXPANSION JOINTS, PROVIDE SPECIAL EXPANSION FITTINGS.

7. IN THE EVENT THAT POWER REQUIREMENT FOR MECHANICAL EQUIPMENT DIFFERS FROM THAT SHOWN ON ELECTRICAL DRAWINGS OR PANEL SCHEDULES ADJUST FEEDER AND CIRCUIT BREAKER SIZES ACCORDINGLY.

8. ALL WIRING INCLUDING FIRE ALARM, SECURITY, TELEPHONE/DATA, PUBLIC ADDRESS SYSTEM, AND HVAC CONTROLLER GENERAL WIRING SHALL BE IN CONDUITS.

9. WIRING SHALL BE SINGLE COPPER INSULATED CONDUCTOR CABLE IN CONDUIT MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCEPT FOR CONTROL WIRING WHICH SHALL BE A MINIMUM #14AWG. USE # 10 AWG MINIMUM FOR 12 VOLT BRANCH CIRCUIT RUNS 75 FEET AND LONGER.

10. MINIMUM CONDUIT SIZE SHALL BE 3/4" GALVANIZED RIGID STEEL TYPE, UNLESS OTHERWISE NOTED ON DRAWINGS.

11. USE MAXIMUM OF 6 FEET OF FLEXIBLE CONDUIT FOR MOTOR CONNECTIONS FOR VIBRATION ISOLATION.

12. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. RUN ALL CONDUITS USING SHORTEST AND MOST DIRECT PATH WITH A MINIMUM OF BENDS AND ELBOWS. EXPOSED CONDUIT AND CABLE RUNS SHALL BE RUN PARALLEL/ PERPENDICULAR TO BUILDING ELEMENTS.

13. ALL EMBEDDED CONDUITS SHALL BE PVC SCHEDULE 40 IN CONCRETE UNDERGROUND DUCT BANKS OR OUTSIDE OF STRUCTURE WALLS. U.O.N. CONDUIT PLACEMENT IN STRUCTURE CONCRETE SHALL COMPLY WITH ACI 318 REQUIREMENT.

14. ALL EMBEDDED PVC CONDUIT SHALL BE PROVIDED WITH PVC-GRS CONDUIT ADAPTERS TO TRANSITION TO GRS CONDUITS PRIOR TO EXITING THE FLOOR OR WALL (EXCEPT TRACTION POWER SUPPLY).

15. CAP EACH CONDUIT STUB-UP TO PREVENT ANY FOREIGN MATERIAL FROM ENTERING INTO THE CONDUIT. CAP SHALL BE:

    A. NON- TRACTION POWER SERVICE CONDUITS, O-Z GEDNEY PUSH-PULL TAB CAPS TYPE PPC OE EQUAL.

    B. POSITIVE AND NEGATIVE TRACTION POWER CONDUITS USE. TYPE CSBE-300-P1 CABLE SEALS AND CSB1-300-P1 CABLE SEALS RESPECTIVELY WITH BLANK. PRESSURE DISC OR EQUAL FOR CONDUIT OVER 1-1/2". FOR CONDUITS UNDER 1-1/2" USE HEAVY WALL SHRINK TUBING AS A SEAL.

    C. CONDUITS SHALL BE SWABBED AND PROOFED BEFORE INSTALLATION OF CAP SEALS.

16. ALL DUCT BANK CONDUITS SHALL BE ENCASED IN 3" OF CONCRETE WITH MINIMUM OF 2" CONDUIT SEPARATION UNLESS OTHERWISE NOTED.

17. ALL TRACTION POWER CONDUIT DUCT BANKS IN THE VICINITY OF TRACK SHALL BE A MINIMUM OF 4'-4" FROM TOP OF RAIL TO TOP OF THE DUCTBANK.

18. INSTALL A NYLON OR POLYESTER PULL-LINE IN EACH CONDUIT AS APPROVED BY THE ENGINEER.

19. PROVIDE GROUNDING CONDUCTORS INCLUDING GROUNDING ELECTRODE CONDUCTOR. EQUIPMENT GROUNDING CONDUCTORS, MAIN BONDING JUMPERS AS REQUIRED.

20. SEAL ALL PENETRATION OF SMOKE AND FIRE RATED WALLS. PENETRATIONS ARE TO FOLLOW METHODS UNDER UL LISTING.

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

DIVERSIFIED ENGINEERING, INC. SILVER SPRING, MARYLAND

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
GENERAL NOTES AND ABBREVIATIONS

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L01
SHEET NO. 137 OF 443

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11/13/2013

ELECTRICAL SYMBOLS LIST

LIGHTING

- BLACK-LIT LED EXIST SIGN - WALL OR CEILING MOUNTED SEE PLAN NOTES FOR FIXTURE MOUNTING HEIGHT.
- A — COMPACT FLUORESCENT LIGHTING FIXTURE - CEILING/WALL MOUNTED. LETTER "A" INDICATE AS FIXTURE TYPE ON THE PLANS. SEE PLANS NOTES FOR FIXTURE MOUNTING HEIGHT.
- CEILING/WALL MOUNTED COMPACT FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT.SEE PLAN NOTES FOR FIXTURE MOUNTING.
- FLUORESCENT LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPE.
- FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE TYPE.
- FLUORESCENT LIGHTING FIXTURE - SURFACE OR PENDANT MOUNTED. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHT AND TYPE.
- FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT - SURFACE OR PENDANT MOUNTED. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHT AND TYPE.
- LINEAR FLUORESCENT LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE
- 4 FT PYLON/BOLLART LIGHT
- POLE LIGHTING. SEE LIGHTING FIXTURE SCHEDULE FOR POLE HEIGHT.

RECEPTACLES

- 125V, 20A, DUPLEX RECEPTACLE, MOUNTED 1'-6" AFF, U.O.N.
- 125V, 20A, DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER MOUNTING HEIGHT AS NOTED.
- IG — 125V, 20A, DUPLEX RECEPTACLE WITH ISOLATED GROUND. ORANGE IN COLOR.
- QUADRUPLEX RECEPTACLE, NEMA 5-20R, GROUNDING TYPE.
- 20A, 125VAC, SINGLE RECEPTACLE RATING AS INDICATED.
- 208V, 3 POLE, 4 WIRE, CIRCUIT BREAKING WELDING RECEPTACLE, RATING AS INDICATED.
- 480V, 3 POLE, 4 WIRE, CIRCUIT BREAKING WELDING RECEPTACLE,RATING AS INDICATED.
- SPECIAL PURPOSE RECEPTACLE RECEPTACLE, SINGLE, RATING AS INDICATED.

SWITCHES

- S — TOGGLE SWITCH, SINGLE POLE 120 /277V, 20A, SWITCH MOUNTED 4'-0" AFF, U.O.N.
- S_3 — 3-WAY SWITCH, 120/277V, 20A, MOUNTED 4'-0" AFF, U.O.N..
- S_4 — 4-WAY SWITCH, 120/277V, 20A, SWITCH MOUNTED 4'-0" AFF, U.O.N.
- S_M — MANUAL MOTOR STARTER WITH MOTOR THERMAL OVERLOAD PROTECTION.
- S_{OS} — TOGGLE SWITCH WITH OCCUPANCY SENSOR DUAL - TECHNOLOGY TYPE.
- S_D — SINGLE POLE SWITCH, 20A, 120-277V, LOWER CASE SUBSCRIPT WHEN USED INDICATES FIXTURES CONTROLLED
- S_D — SINGLE POLE SWITCH, 20A, 120-277V, SUBSCRIPT D INDICATES DIMMER. PROVIDE DIMMING BALLAST FOR THE FIXTURES INDICATED TO BE DIMMED
- $3S_K$ — SINGLE POLE SWITCH, 20A, 120-277V, KEY OPERATED
- S_{3K} — THREE WAY SWITCH, 20A, 120-277V, KEY OPERATED
- S_P — SINGLE POLE SWITCH, 20A, 120-277V WITH PILOT LIGHT
- S_{RC} — THREE-WAY SWITCH 20A,120-277V REMOTE CONTROL-MOMENTARY CONTACT TOGGLE TYPE WITH CENTRAL NEUTRAL POSITION
- C — LIGHTING CONTACTOR (X POLE) 277V
- PP — LIGHTING POWER PACK
- PUSH BUTTON
- PC — PHOTO CELL
- OS H OS — CEILING/WALL MOUNTED OCCUPANCY SENSOR. PROVIDE POWER PACK AS REQUIRED.

SAFETY SWITCHES / BREAKERS / STARTERS

- $\square^{60}_{3}$ — NON-FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES AMPACITY AND NUMBER OF POLES
- F $^{15}_{3}$ — FUSED DISCONNECT SWITCH, SUBSCRIPT INDICATES FUSED SIZE AND NUMBER OF POLES
- 2 ⊠ — MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, NEMA SIZE 1 STARTER UON
- 2 ⊠ $^{60}_{3}$ — MAGNETIC MOTOR STARTER, SUBSCRIPT INDICATES NEMA SIZE 2, NEMA SIZE 1 STARTER UON. 60 = SWITCH SIZE AND 3 = NO. OF POLE. 30AMPS, 3 POLES UON
- HOA — MANUAL MOTOR STARTER SWITCH WITH OVERLOAD. PROVIDE HOA AS REQUIRED
- VFD — VARIABLE FREQUENCY DRIVE, INDIVIDUALLY MOUNTED
- VFD BP — VARIABLE FREQUENCY DRIVE WITH BYPASS STARTER
- SS — SOLID STATE STARTER, INDIVIDUALLY MOUNTED
- 225/200 — ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED

EQUIPMENT CONNECTION

- 2 — MOTOR, NUMBER INDICATES HORSEPOWER
- H — ELECTRIC UNIT HEATER
- J J — JUNCTION BOX
- E E — EQUIPMENT CONNECTION AS NOTED
- VAV — VARIABLE AIR VOLUME BOX
- DWH — DOMESTIC WATER HEATER
- CUH — CABINET UNIT HEATER
- 34 — SHOP EQUIPMENT, NUMERAL INDICATES EQUIPMENT NUMBER. SEE EQUIPMENT SCHEDULE ON DWG. E-XX FOR DETAIL.
- MOD — MOTOR OPERATED DAMPER
- CP — CONTROL PANEL

WIRING

- HOMERUN TO PANEL. NUMBER OF ARROW HEADS INDICATES NUMBER OF CIRCUITS. NUMBER OF HATCH LINES INDICATES NUMBER OF WIRES.HOME RUNS WITHOUT HATCH LINES INDICATE 2#12 + 1#12 GROUND IN 3/4" CONDUIT.
- 2 — ARROW AND NUMERAL 2 INDICATE THAT ALL DEVICES BEHIND ARROW ARE CONNECTED TO CIRCUIT NO. 2 UNLESS CIRCUIT NUMBER IS SHOWN ON EACH SEPARATELY.
- CONDUIT CONCEALED IN WALL OR CEILING.
- CONDUIT EXPOSED.
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND.
- CONDUIT OR CABLE TURNING AWAY OR DOWN.
- CONDUIT OR CABLE TURNING UPWARD OR TOWARDS VIEWER.
- O — POINT OF CONNECTION
- PC — PHOTO ELECTRIC CONTROL.
- TS — 24 HOUR ADJUSTABLE TIMER.

GROUNDING

- GROUND BUS 1/ 4" THICK X 2" WIDE, LENGTH AS INDICATED ON PLANS.
- GEC — GROUNDING ELECTRODE INSULATED CONDUCTOR. SIZE AS INDICATED.
- GROUNDING ROD.
- SYSTEM GROUND OR EQUIPMENT GROUND.
- EXOTHERMIC WELD BONDING GROUND CONNECTION.

MISCELLANEOUS

- FUSE.
- CIRCUIT BREAKER.
- T7 — TRANSFORMER.
- TC — 24 HOUR ADJUSTABLE TIMER.
- EMERGENCY STOP PUSHBUTTON, MUSHROOM TYPE CAP WITH PROTECTIVE RING, NEMA 4 ENCLOSURE MH 48" AFF.

- 1 / E7.02 — DETAIL NUMBER. DETAIL DESIGNATION. SHEET WHERE DETAIL IS DRAWN.
- 12 — KEYED SPECIFIC NOTE DESIGNATION.
- 12 — REVISION DESIGNATION.
- AIR TERMINAL

FIRE ALARM SYSTEM

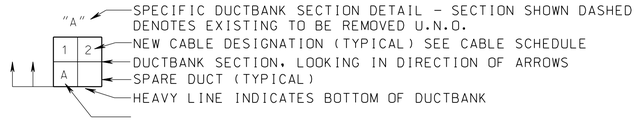
- F — FIRE ALARM MANUAL PULL STATION, MOUNT 54" AFF.
- F $_{15}$ — FIRE ALARM AUDIO/VISUAL. MOUNT 7'-0" AFF (UON). THE SUBSCRIPT 15 DENOTES THE CANDELA VALUE.
- F $_{15}$ — FIRE ALARM STROBE. MOUNT 7'-0" AFF (UON). THE SUBSCRIPT 15 DENOTES THE CANDELA VALUE.
- F C — FIRE ALARM, AUDIO/VISUAL CEILING MOUNTED
- PS — SPRINKLER SYSTEM PRESSURE SWITCH
- FS — SPRINKLER SYSTEM FLOW SWITCH
- TS — SPRINKLER SYSTEM TAMPER SWITCH
- ACV — SPRINKLER SYSTEM AUTOMATIC CHECK VALVE
- S — FIRE ALARM SYSTEM SMOKE DETECTOR. MOUNT ON CEILING (UON)
- H — FIRE ALARM SYSTEM HEAT DETECTOR. MOUNT ON CEILING (UON)
- D — FIRE ALARM SYSTEM DUCT SMOKE DETECTOR
- FACP — FIRE ALARM CONTROL PANEL (FACP)
- FAAP — FIRE ALARM ANNUNCIATOR PANEL (FAAP)

PANELBOARDS

- DISTRIBUTION PANELBOARD FLUSH/SURFACE MOUNTED, 277/480VAC.
- APPLIANCE PANELBOARD FLUSH/SURFACE MOUNTED 120/208VAC.
- T T7 — DRY-TYPE TRANSFORMER. LETTER "T7" INDICATES TRANSFORMER NUMBER. RATING AS INDICATED ON DRAWING.
- JUNCTION BOX CEILING/WALL MOUNTED WITH CONNECTION TO DEVICE OR EQUIPMENT INDICATED.
- ATS — AUTOMATIC TRANSFER SWITCH
- SPD — SURGE PROTECTION DEVICE.

UNDERGROUND/SITE WORK

- EXISTING HANDHOLE
- G — GROUND CONDUCTOR
- HANDHOLE
- MH — MANHOLE
- HH — HANDHOLE



- SPECIFIC DUCTBANK SECTION DETAIL - SECTION SHOWN DASHED DENOTES EXISTING TO BE REMOVED U.N.O.
- NEW CABLE DESIGNATION (TYPICAL) SEE CABLE SCHEDULE
- DUCTBANK SECTION, LOOKING IN DIRECTION OF ARROWS
- SPARE DUCT (TYPICAL)
- HEAVY LINE INDICATES BOTTOM OF DUCTBANK

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

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PROFESSIONAL CERTIFICATION

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ELECTRICAL SYMBOL LIST

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L02
SHEET NO. 138 OF 443

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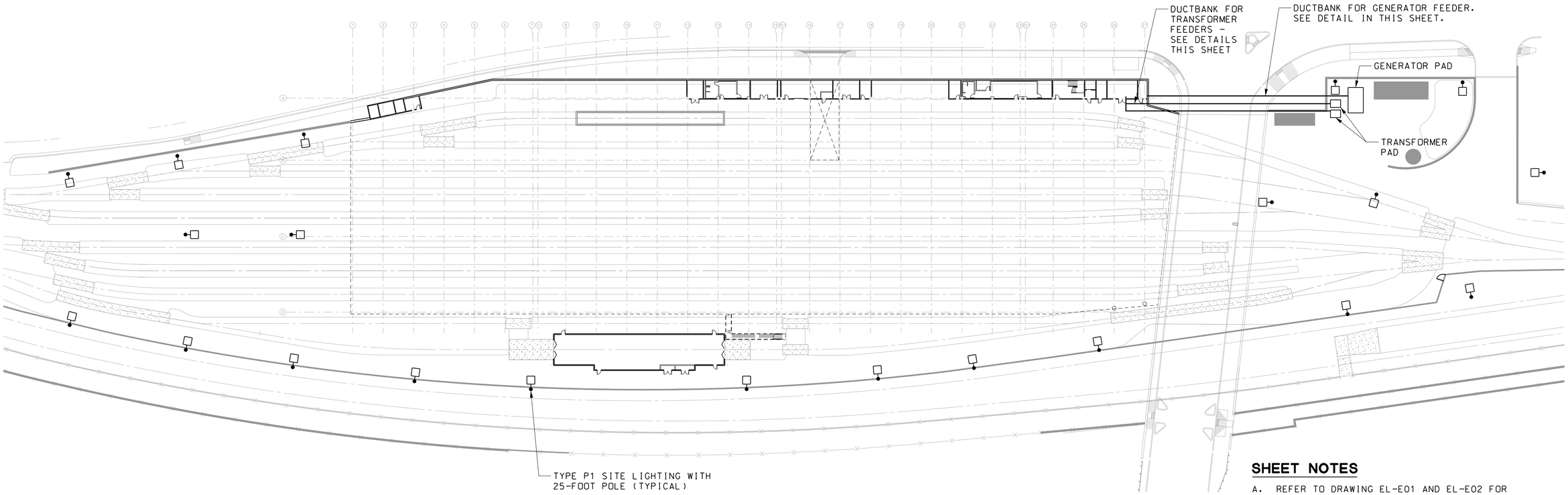
11/13/2013



YARD LEVEL SITE PLAN - LIGHTING AND POWER

SCALE: 1" = 40'

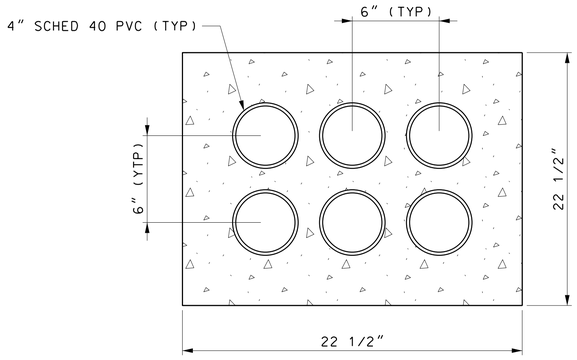
SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

B. COORDINATE ELECTRICAL LIGHT POLE AND CONDUIT INSTALLATION WITH TRACKS AND OTHER EQUIPMENT.

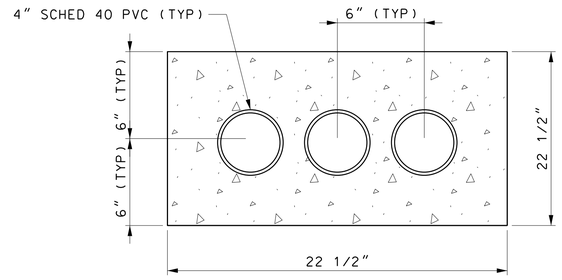
C. LABEL ALL JUNCTION BOXES AND PULL BOXES INDICATING THEIR VOLTAGE AND USAGE.

D. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.



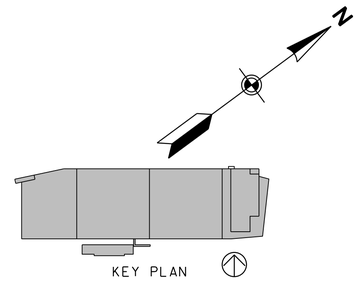
TRANSFORMER - 6-WAY PVC CONCRETE ENCASED DUCTBANK DETAIL

SCALE: NOT TO SCALE



GENERATOR - 3-WAY PVC CONCRETE ENCASED DUCTBANK DETAIL

SCALE: NOT TO SCALE



40' 0 40' 80'

SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION

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MTA Maryland

Gannett Fleming

WR&A

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DESGN	MB
DRAWN	DP
CHECK	MB
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

YARD LEVEL SITE PLAN – LIGHTING/POWER

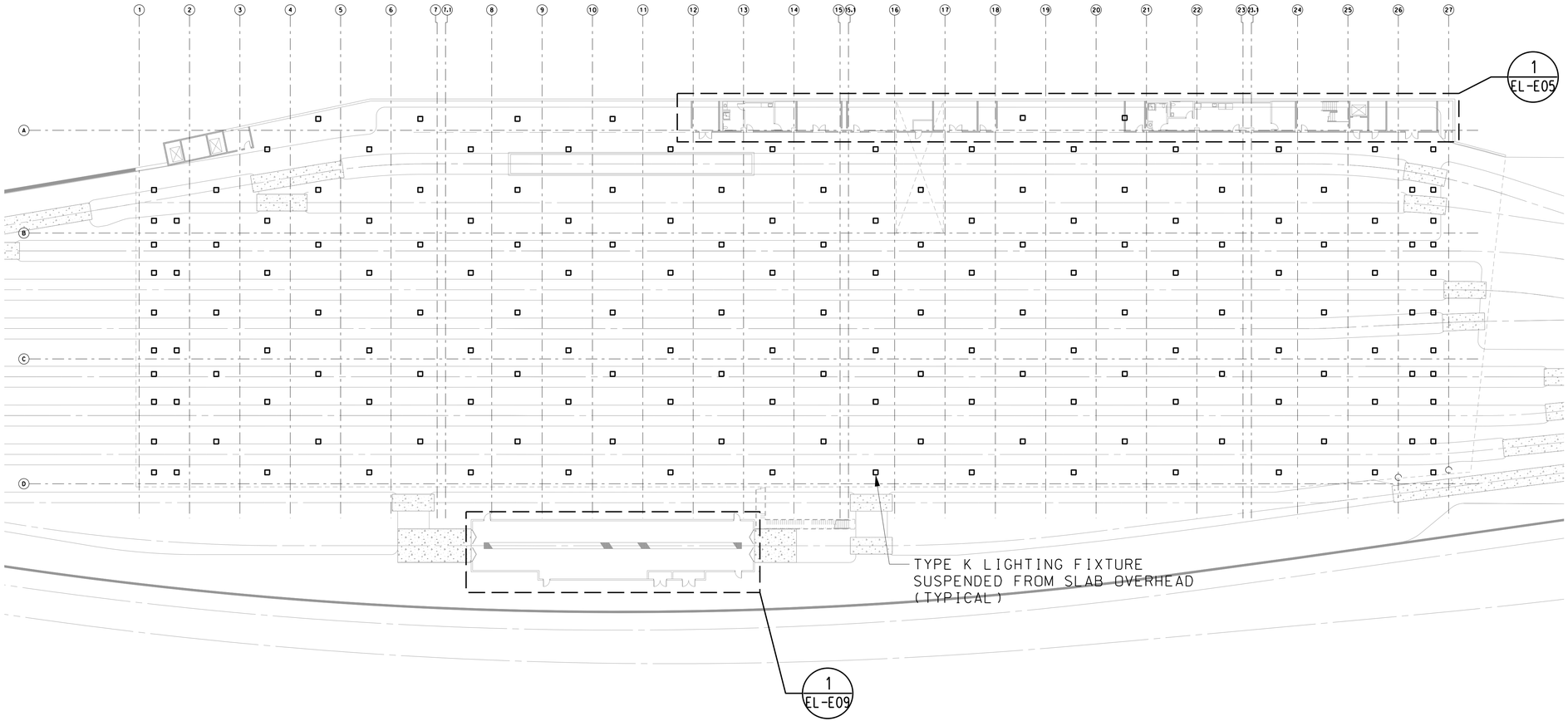
DATE: DECEMBER 2013 SCALE: 1" = 40'

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L03

SHEET NO. 139 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA03.dgn
11/26/2013



YARD STORAGE PLAN - LIGHTING

SCALE: 1" = 30'

SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

B. COORDINATE ELECTRICAL EQUIPMENT AND CONDUIT INSTALLATION WITH MECHANICAL WORK, OVERHEAD PLUMBING PIPING, AND OTHER EQUIPMENT.

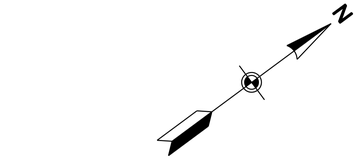
C. LABEL ALL JUNCTION BOXES AND PULL BOXES INDICATING THEIR VOLTAGE AND USAGE.

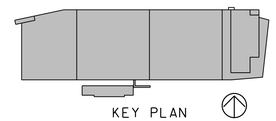
D. FOR NEW WIRING CONDUIT, AND FEEDER CONNECTIONS, SEE PANELBOARD SCHEDULES.

E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

SPECIFIC NOTES

(1) FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21





40' 0 40' 80'
SCALE: 1"=40'

MARYLAND DEPARTMENT OF TRANSPORTATION
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MTA Maryland

Gannett Fleming
WR&A

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

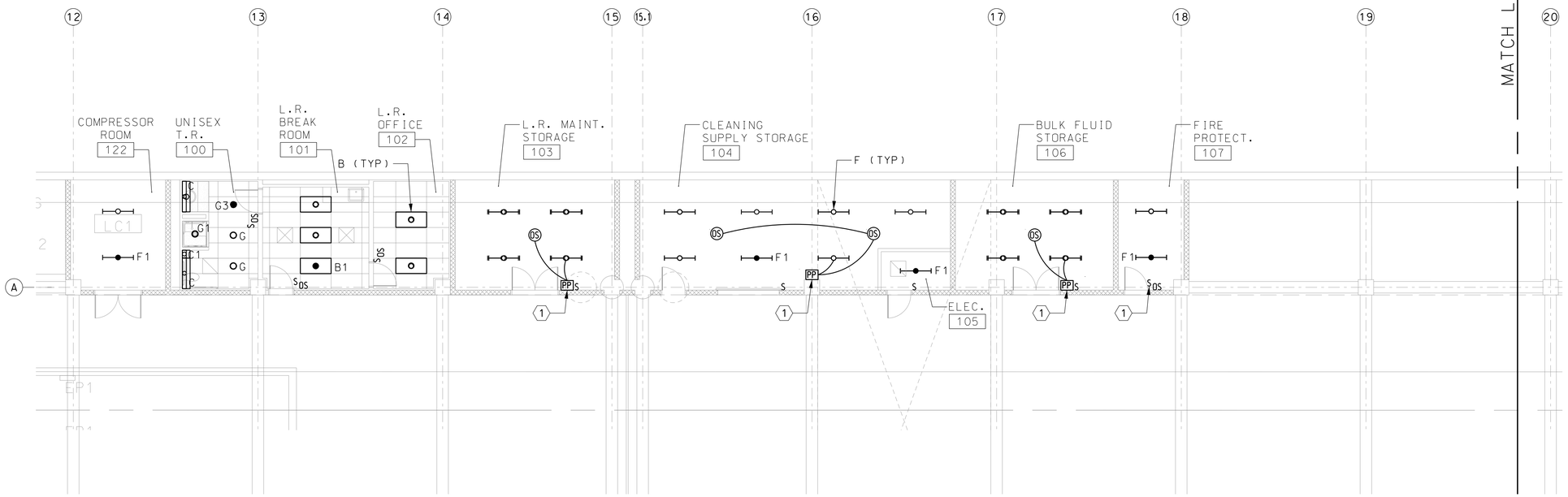
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

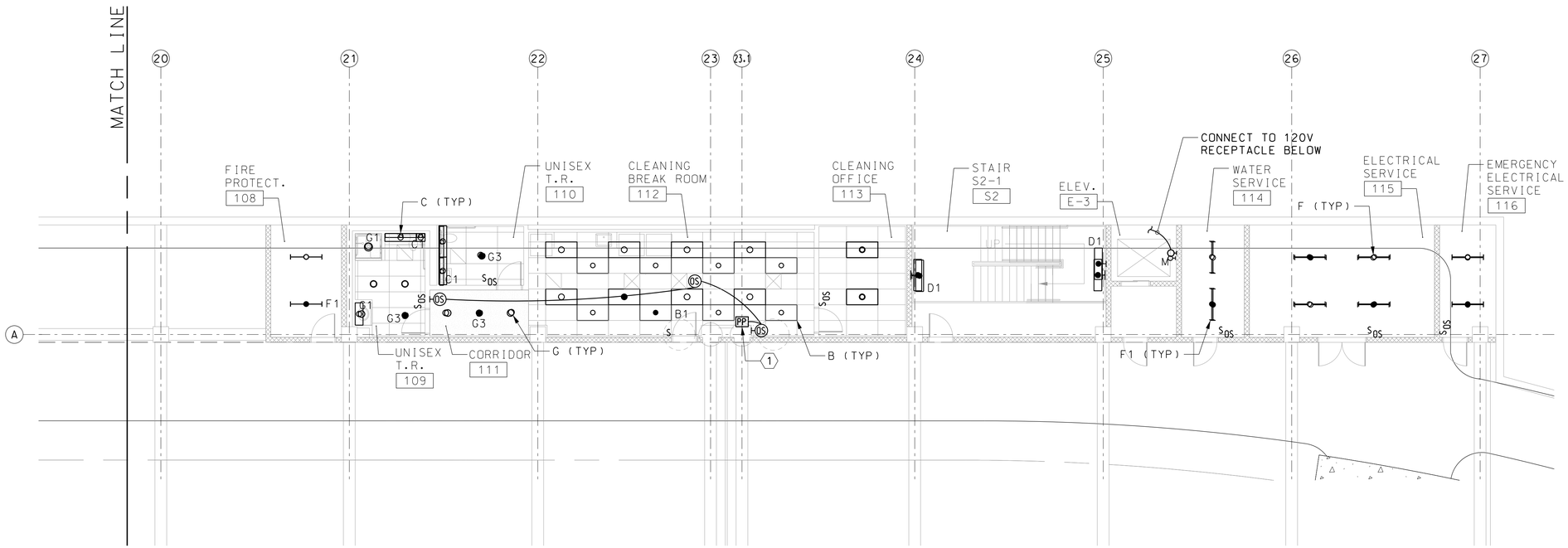
LYTTONSVILLE YARD FACILITY
YARD STORAGE PLAN – LIGHTING

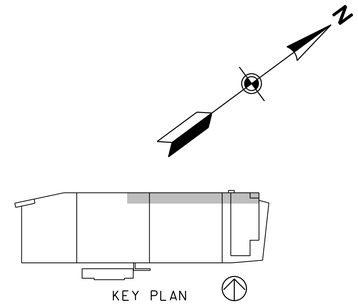
DATE: DECEMBER 2013 SCALE: 1" = 30'

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L04
SHEET NO. 140 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA04.dgn
11/26/2013







SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

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C. LABEL ALL JUNCTION BOXES AND PULL BOXES INDICATING THEIR VOLTAGE AND USAGE.

D. FOR NEW WIRING CONDUIT, AND FEEDER CONNECTIONS, SEE PANELBOARD SCHEDULES.

E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

SPECIFIC NOTES

1. FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21
2. PROVIDE JUNCTION BOX PANEL FOR LED DRIVER AND ACCESSIBLE.

1 / EL-E05 **YARD LEVEL PARTIAL FLOOR PLAN - LIGHTING**

SCALE: 1/8"=1'-0"

REF: EL-E04

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

YARD LEVEL FLOOR PLAN – LIGHTING

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L05

SHEET NO. 141 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA05.dgn
11/26/2013

SHEET NOTES

A. THE PARKING AREA LIGHTING SHALL BE DUAL HEAD LED LIGHTING FIXTURE MANUFACTURED BY COOPER LIGHTING, CATALOG # VTS-B10-LED-E1-T4, WITH (10) 21 LED BARS WITH ACCU LED OPTICS AND TYPE 4 DISTRIBUTION. THE LIGHTING FIXTURES SHALL BE MOUNTED ON 15'-0" DARK BRONZE SQUARE POLE ON 3'-0" CONCRETE POLE FOUNDATION.

B. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

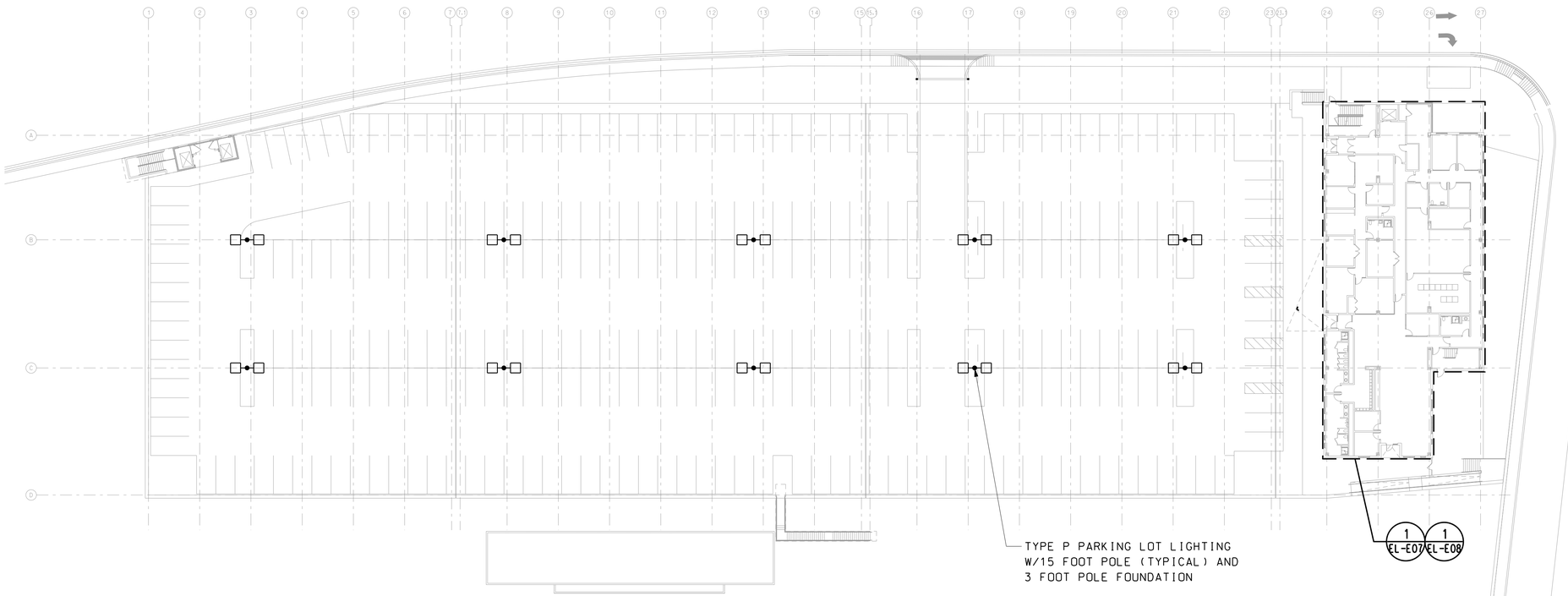
C. COORDINATE ELECTRICAL LIGHT POLE AND CONDUIT INSTALLATION WITH STRUCTURE, AND OTHER EQUIPMENT.

D. LABEL ALL JUNCTION BOXES AND PULL BOXES INDICATING THEIR VOLTAGE AND USAGE.

E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

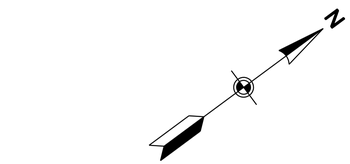
SPECIFIC NOTES

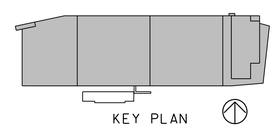
(1) FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21



PARKING DECK LEVEL PLAN - LIGHTING

SCALE: 1" = 30'





KEY PLAN

30' 0 30' 60'

SCALE: 1"=30'

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
PARKING DECK LEVEL PLAN – LIGHTING

DATE: DECEMBER 2013 SCALE: 1" = 30'

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L06

SHEET NO. 142 OF 443

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11/13/2013

SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

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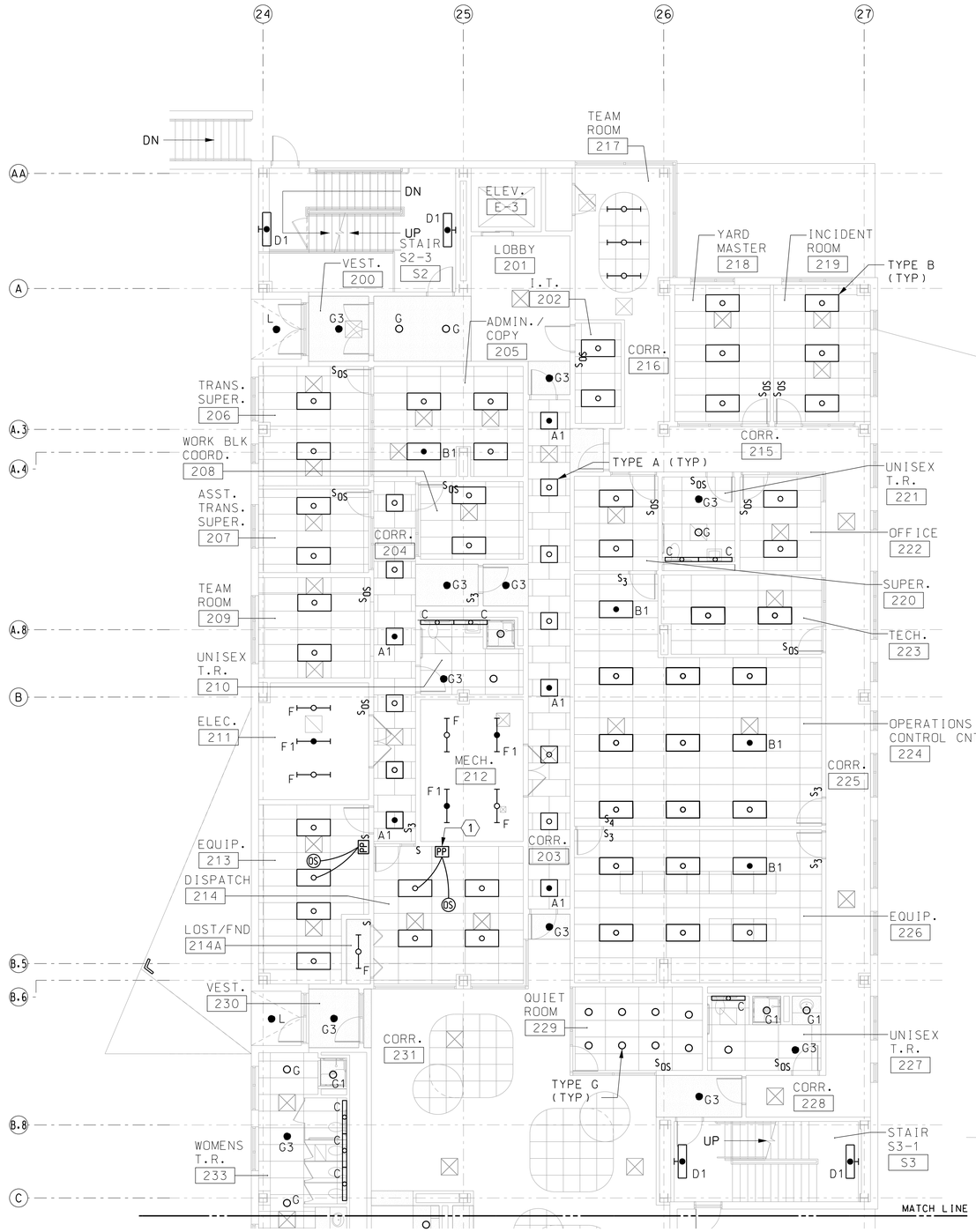
D. FOR NEW WIRING CONDUIT, AND FEEDER CONNECTIONS, SEE PANELBOARD SCHEDULES.

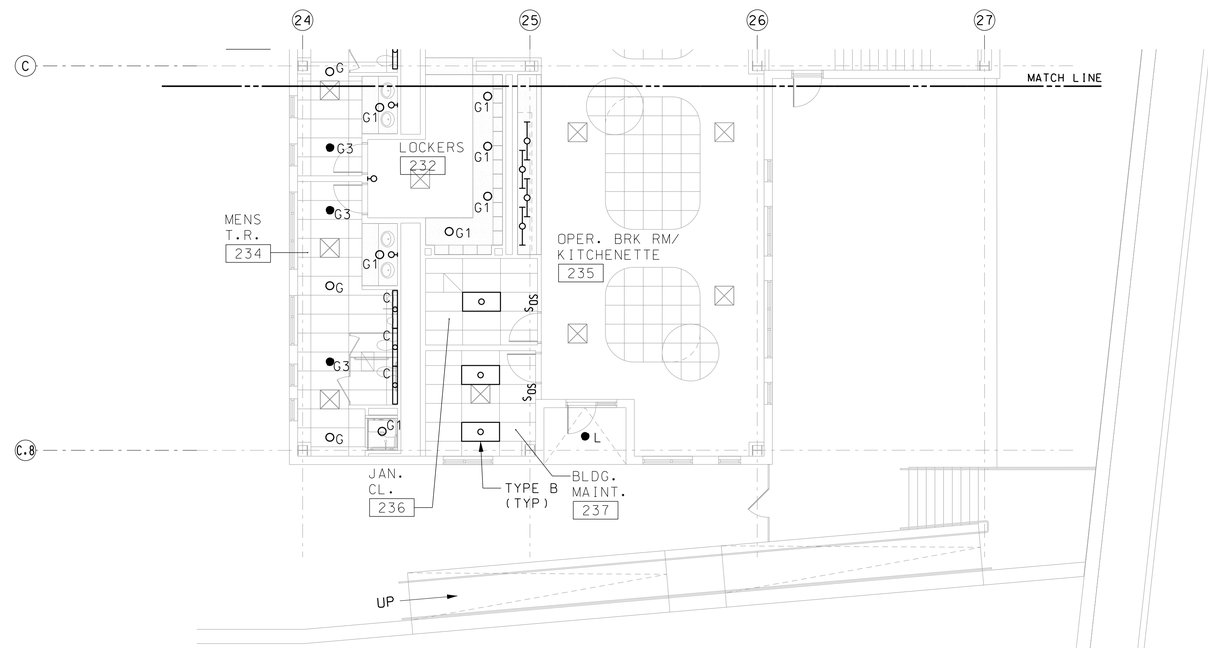
E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

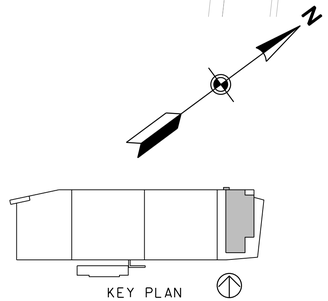
SPECIFIC NOTES

(1) FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21

(2) NOT USED







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

1 EL-L07 **OFFICE FIRST FLOOR PLAN - LIGHTING**
SCALE: 1/8"=1'-0"
REF: EL-L06

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WR&A
DIVERSIFIED ENGINEERING, INC. SILVER SPRING, MARYLAND

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DESIGN MB
DRAWN DP
CHECK LJ
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
OFFICE FIRST FLOOR PLAN – LIGHTING
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L07
SHEET NO. 143 OF 443

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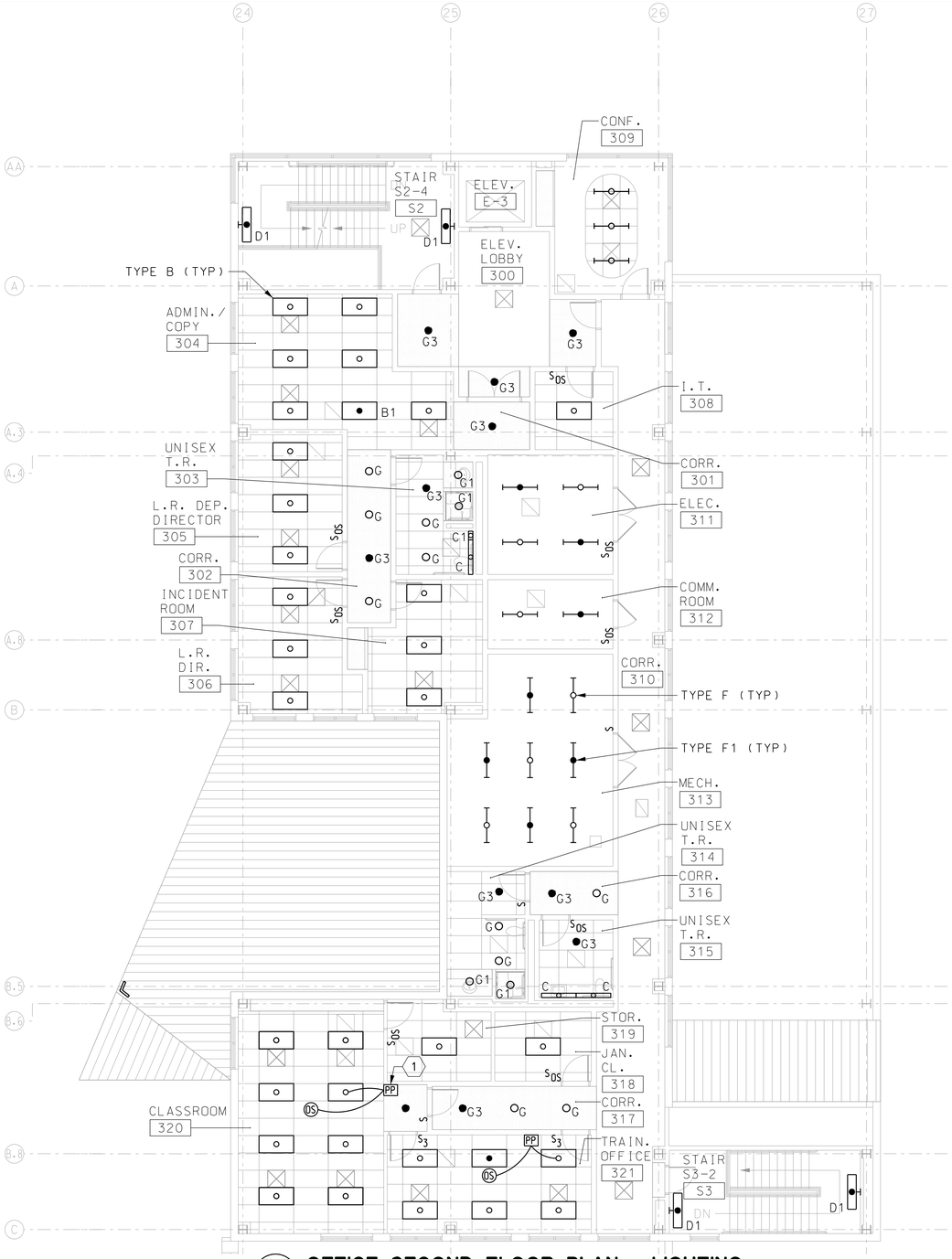
11/13/2013

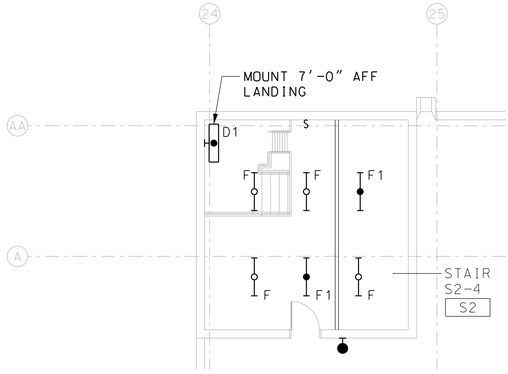


OFFICE SECOND FLOOR PLAN - LIGHTING

1 / EL-L08

SCALE: 1/8"=1'-0"

REF: EL-L06



ROOF STAIR PLAN - LIGHTING

2 / EL-L08

SCALE: 1/8"=1'-0"

REF:

SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

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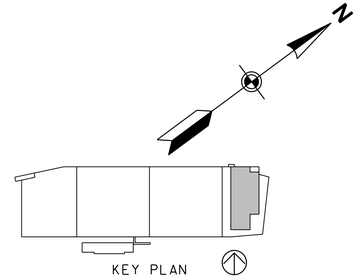
D. FOR NEW WIRING CONDUIT, AND FEEDER CONNECTIONS, SEE PANELBOARD SCHEDULES.

E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

SPECIFIC NOTES

1. FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21
2. NOT USED



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE SECOND FLOOR PLAN – LIGHTING

DATE: DECEMBER 2013 SCALE: 1/8" = 1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L08

SHEET NO. 144 OF 443

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11/13/2013

SHEET NOTES

A. REFER TO DRAWING EL-E01 AND EL-E02 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

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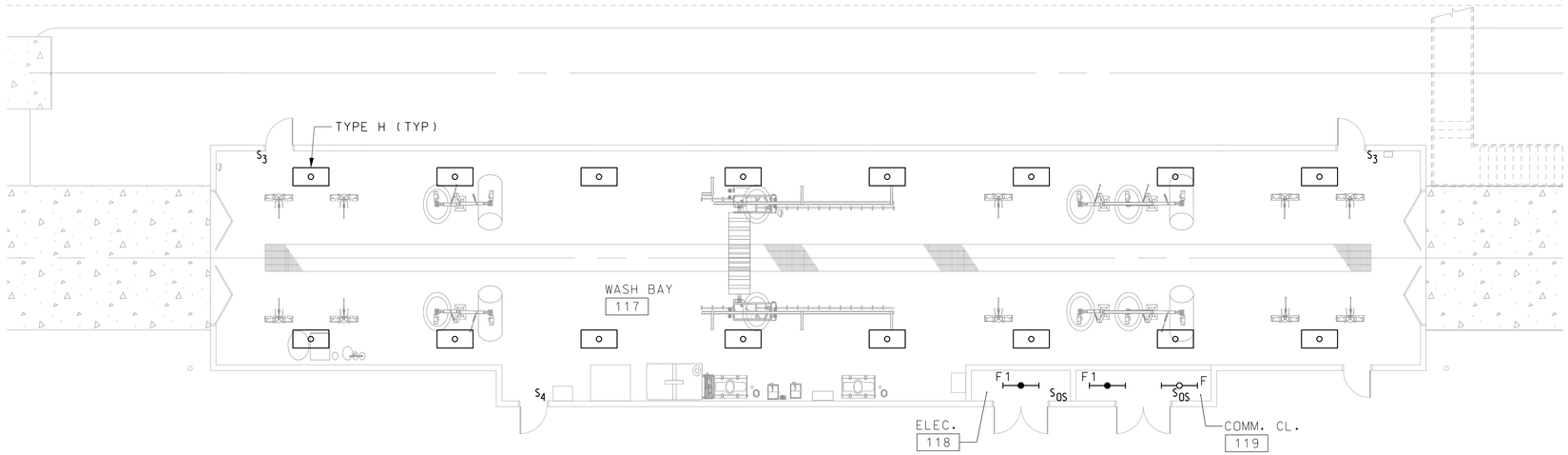
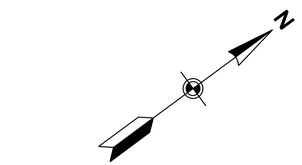
E. FOR LIGHTING FIXTURES SCHEDULE, SEE SHEET EL-E20.

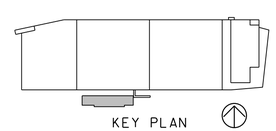
SPECIFIC NOTES

1. FOR WIRING CONNECTION, SEE DETAIL X/ EL-E21
2. PROVIDE JUNCTION BOX PANEL FOR LED DRIVER AND ACCESSIBLE.



1 EL-L09 **WASH BUILDING PLAN - LIGHTING**
SCALE: 1/8"=1'-0"
REF: EL-L04





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

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING PLAN – LIGHTING

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L09
SHEET NO. 145 OF 443

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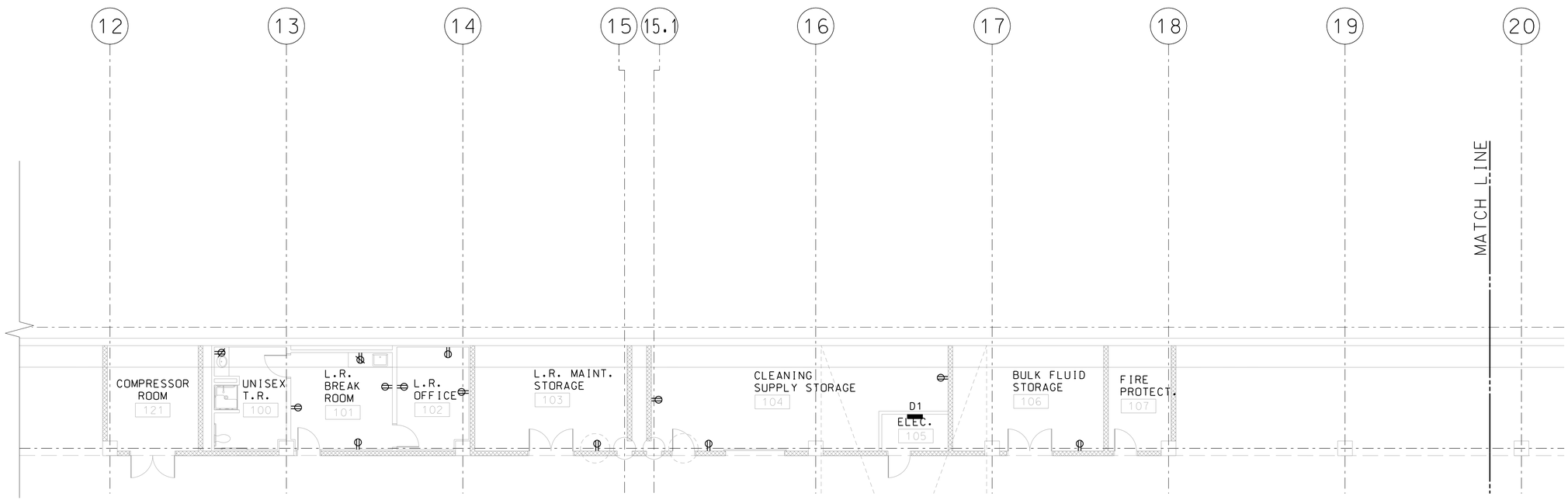
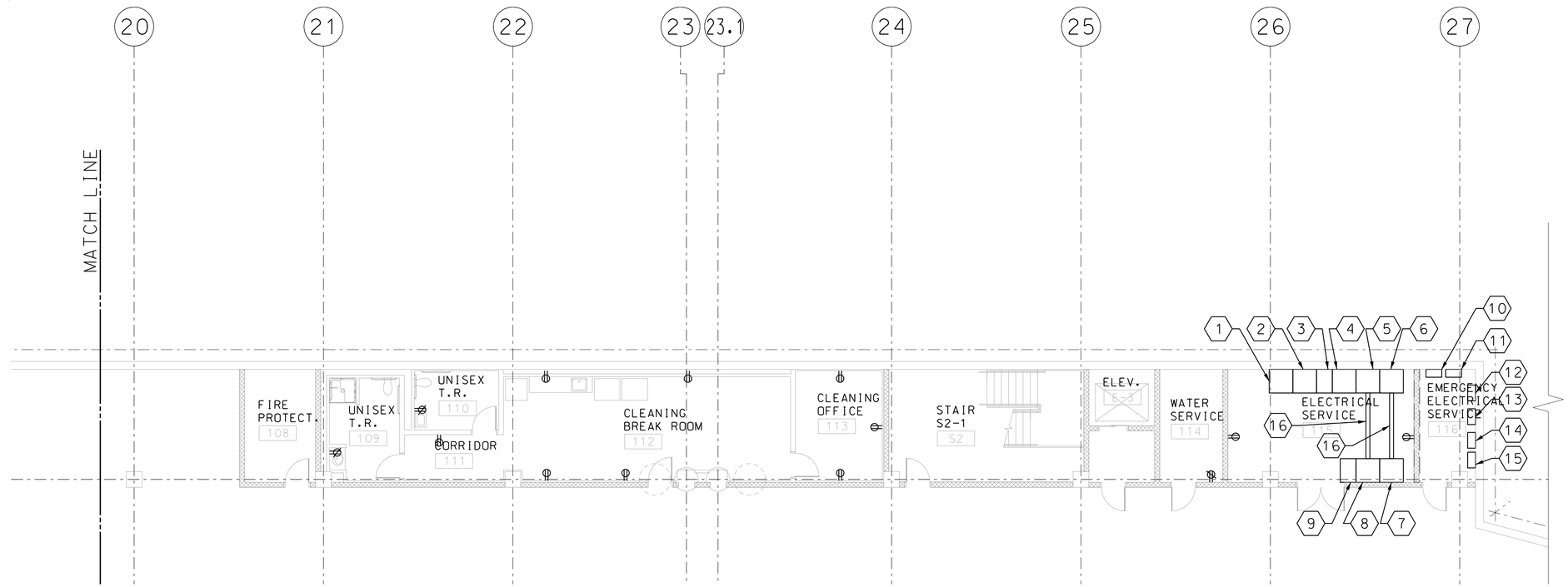
11/13/2013



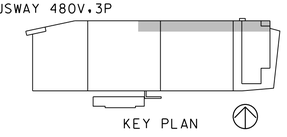


YARD LEVEL FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"

SPECIFIC NOTES

1. UTILITY INCOMING NO#2 - SWITCHGEAR
2. MAIN BREAKER BK2 480V - SWITCHGEAR
3. OWNER METERING NO#2 - SWITCHGEAR
4. DISTRIBUTION NO#2 - SWITCHGEAR
5. TIE BREAKER - SWITCHGEAR
6. UTILITY INCOMING NO#1
7. MAIN BREAKER BK1 480V - SWITCHGEAR
8. DISTRIBUTION NO#1 - SWITCHGEAR
9. OWNER METERING NO#1 - SWITCHGEAR
10. PANEL EPP - EMERGENCY ROOM
11. AUTOMATIC TRANSFER SWITCH (ATS2) - EMERGENCY ROOM
12. PANEL EPL - EMERGENCY ROOM
13. AUTOMATIC TRANSFER SWITCH (ATS1) - EMERGENCY ROOM
14. AUTOMATIC TRANSFER SWITCH (ATS3) - EMERGENCY ROOM
15. PANEL EMP - EMERGENCY ROOM
16. BUSWAY 480V,3P



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

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

DIVERSIFIED ENGINEERING, INC. SILVER SPRING, MARYLAND

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL FLOOR PLAN – POWER

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L10
SHEET NO. 146 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA10.dgn
12/6/2013

OFFICE FIRST FLOOR PLAN - POWER

SCALE: 1/8" = 1′-0"

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DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE FIRST FLOOR PLAN – POWER

DATE: DECEMBER 2013 SCALE: 1/8" =1′-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L11

SHEET NO. 147 OF 443

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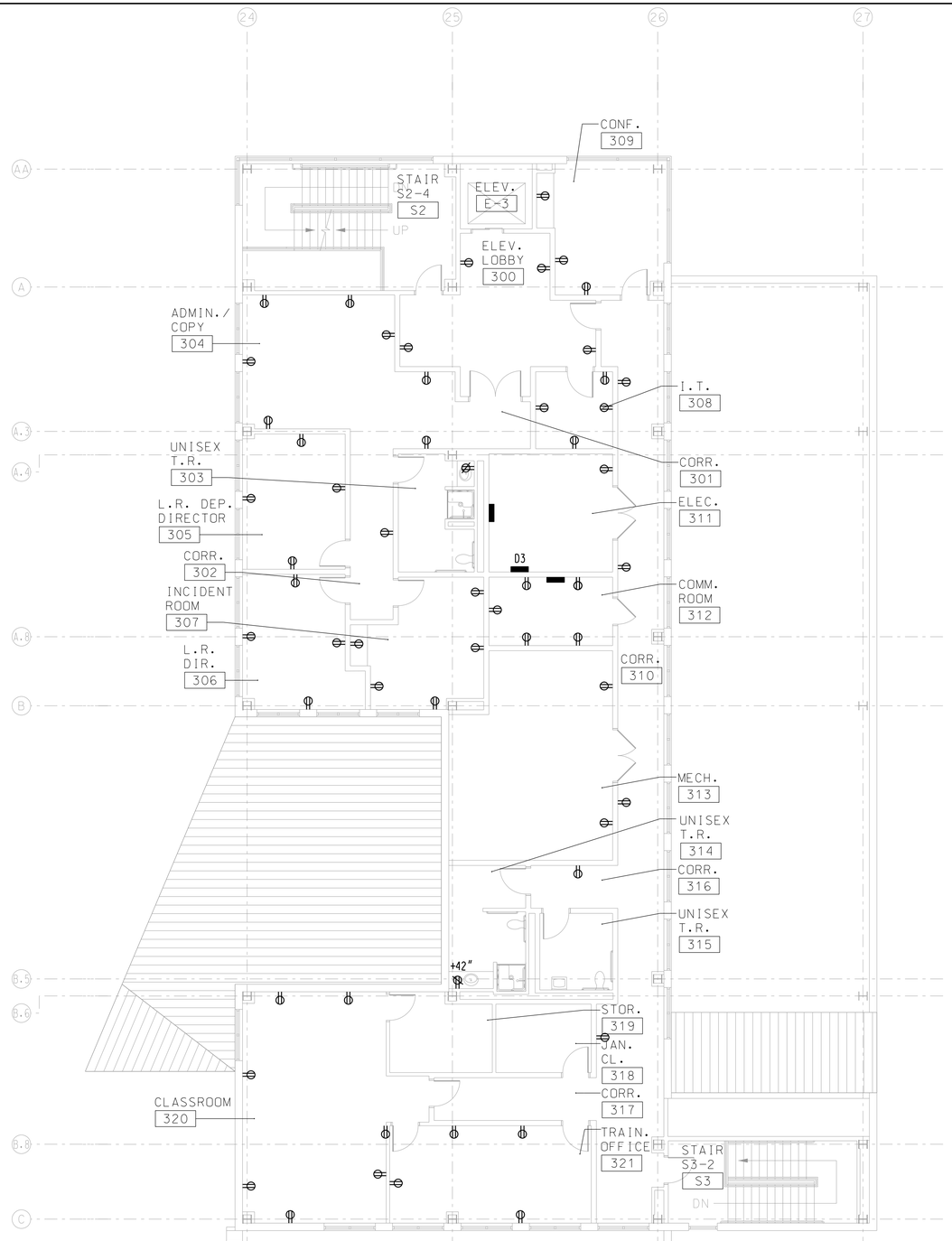
11/13/2013



OFFICE SECOND FLOOR PLAN - POWER

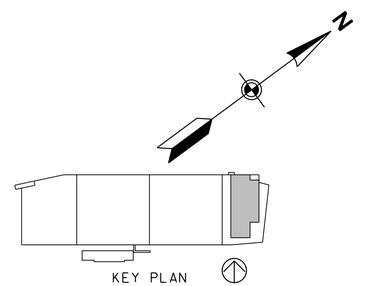
SCALE: 1/8" = 1'-0"

SHEET NOTES

A. REFER TO DRAWING EL-L01 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

B. COORDINATE ELECTRICAL EQUIPMENT AND CONDUIT INSTALLATION WITH MECHANICAL WORK, OVERHEAD PLUMBING PIPING, AND OTHER EQUIPMENT.

C. LABEL ALL JUNCTION BOXES AND PULL BOXES INDICATING THEIR VOLTAGE AND USAGE.



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESIGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE SECOND FLOOR PLAN – POWER

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L12

SHEET NO. 148 OF 443

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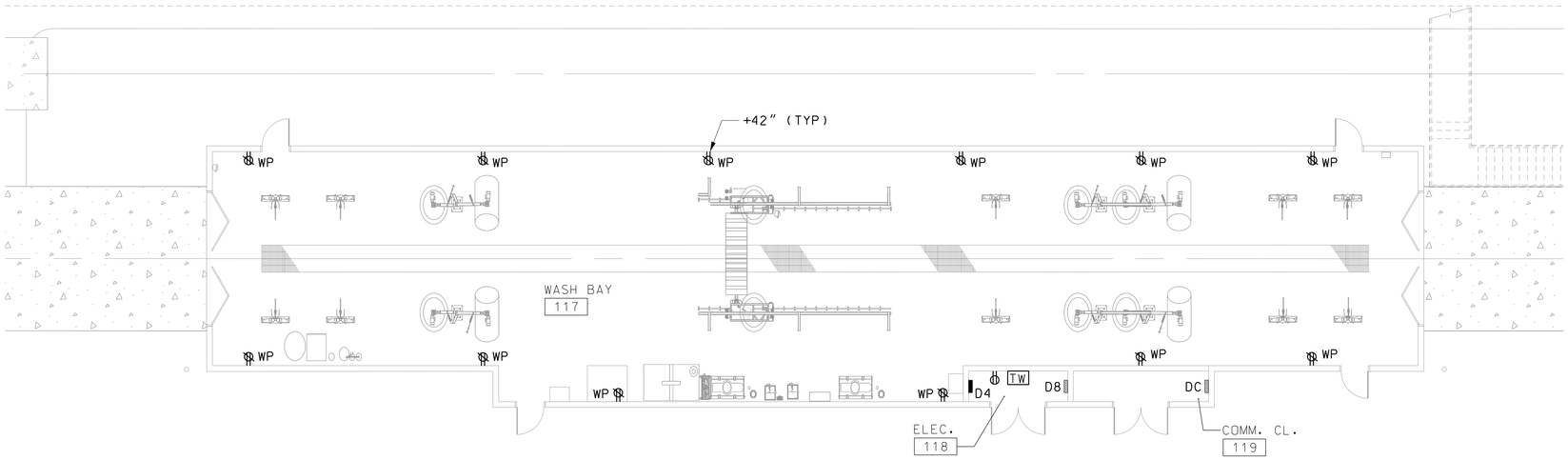


LEGEND

TW 30KVA DRY TYPE TRANSFORMER, PRIMARY: 480V, 3 PH; SECONDARY: 208/120V, 3 PH, 150°C TEMPERATURE RISE

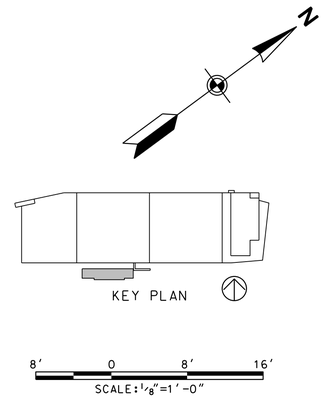
D4 ELECTRICAL DISTRIBUTION PANEL, 600A, 480/277V, 3 PHASE, 4 WIRE + GROUND

D8 100A, 208/120V, 3 PHASE, 4 WIRE PANEL

DC UPS, 208/120V, 3 PHASE, 5 WIRE PANEL

WASH BUILDING PLAN - POWER

SCALE: 1/8"=1'-0"



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APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING PLAN – POWER

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L13
SHEET NO. 149 OF 443

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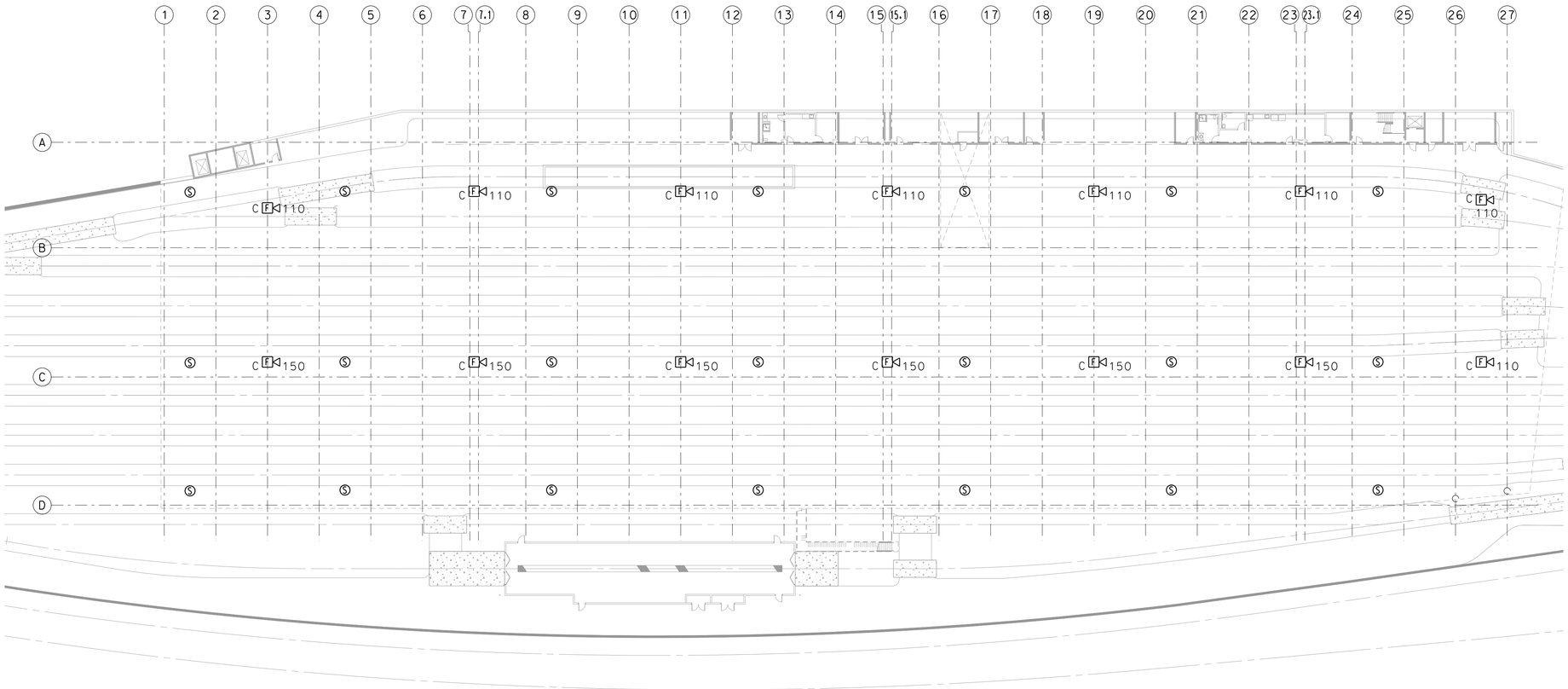
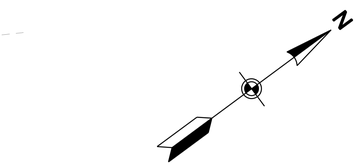
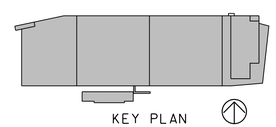
11/13/2013



YARD STORAGE PLAN - FIRE ALARM

SCALE: 1" = 30'





30' 0 30' 60'
SCALE: 1"=30'

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APPR	

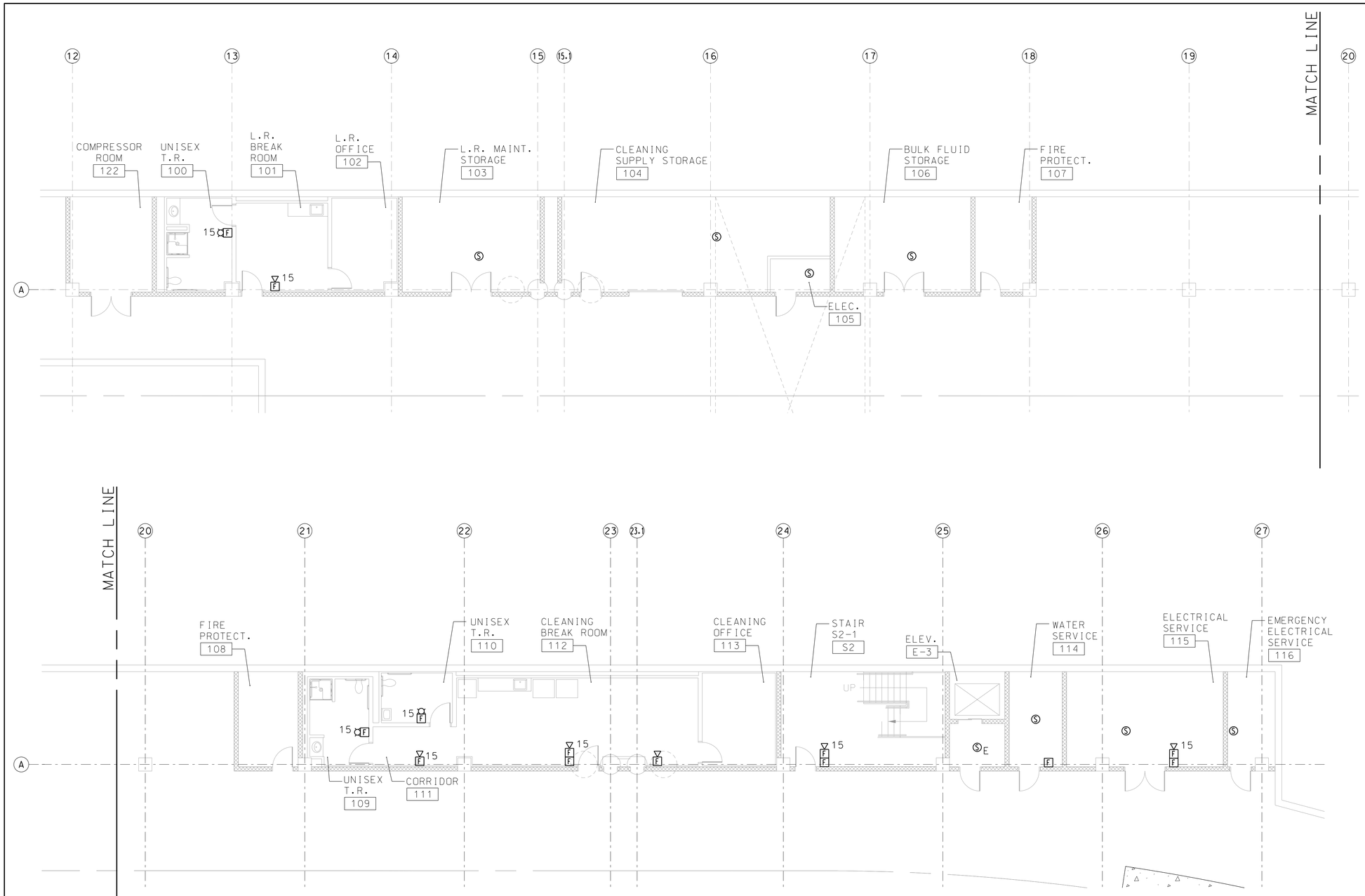
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD STORAGE PLAN – FIRE ALARM

DATE: DECEMBER 2013 SCALE: 1" = 30'

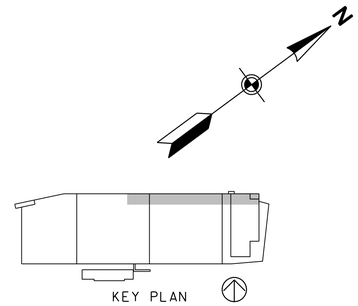
CONTRACT NO. T–1042–0220
DRAWING NO. EL–L14
SHEET NO. 150 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA14.dgn
11/26/2013



YARD LEVEL PLAN - FIRE ALARM

SCALE: SCALE



8′ 0 8′ 16′

SCALE: 1/8"=1′-0"

MARYLAND DEPARTMENT OF TRANSPORTATION

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CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

YARD LEVEL FLOOR PLAN – FIRE ALARM

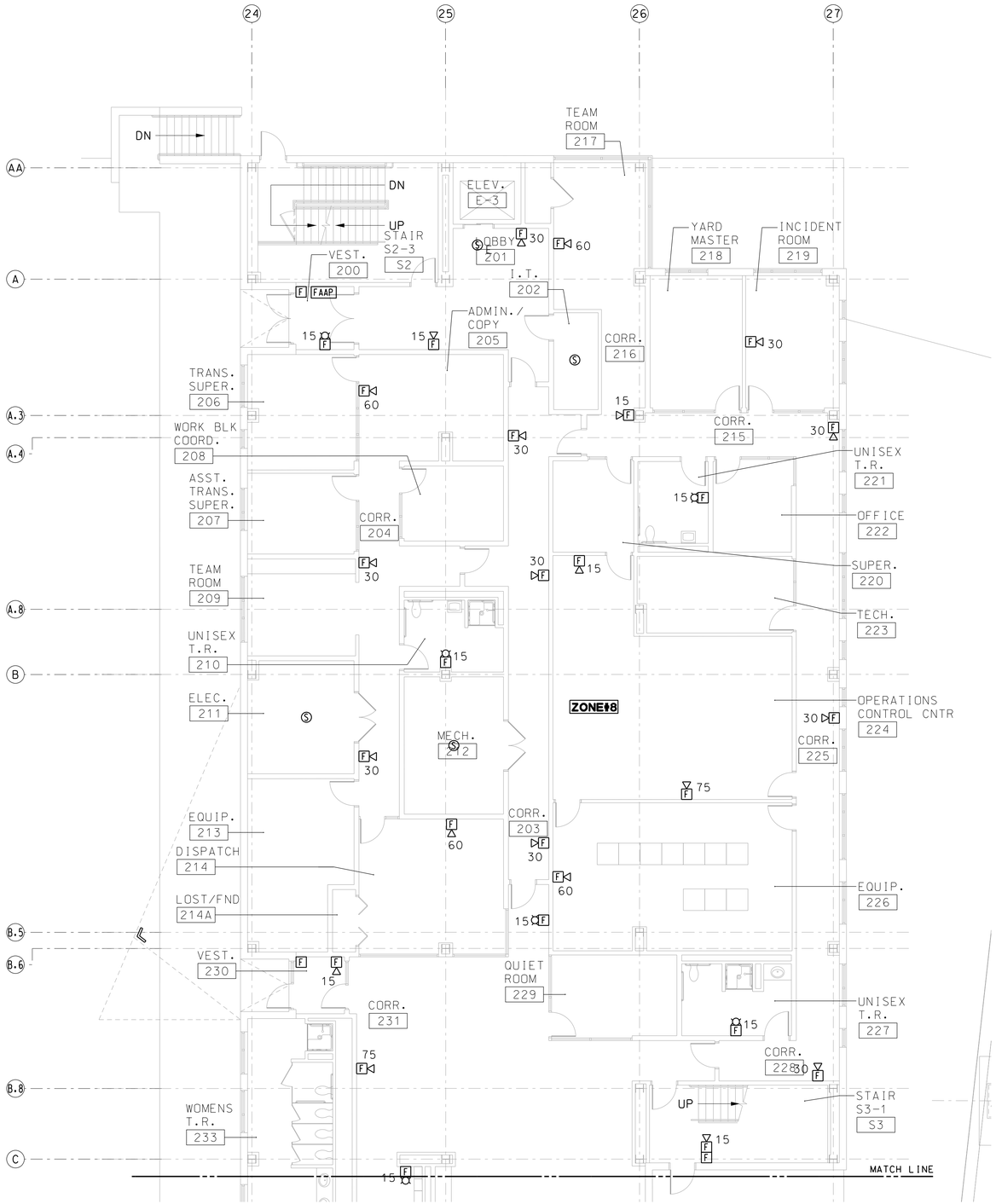
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

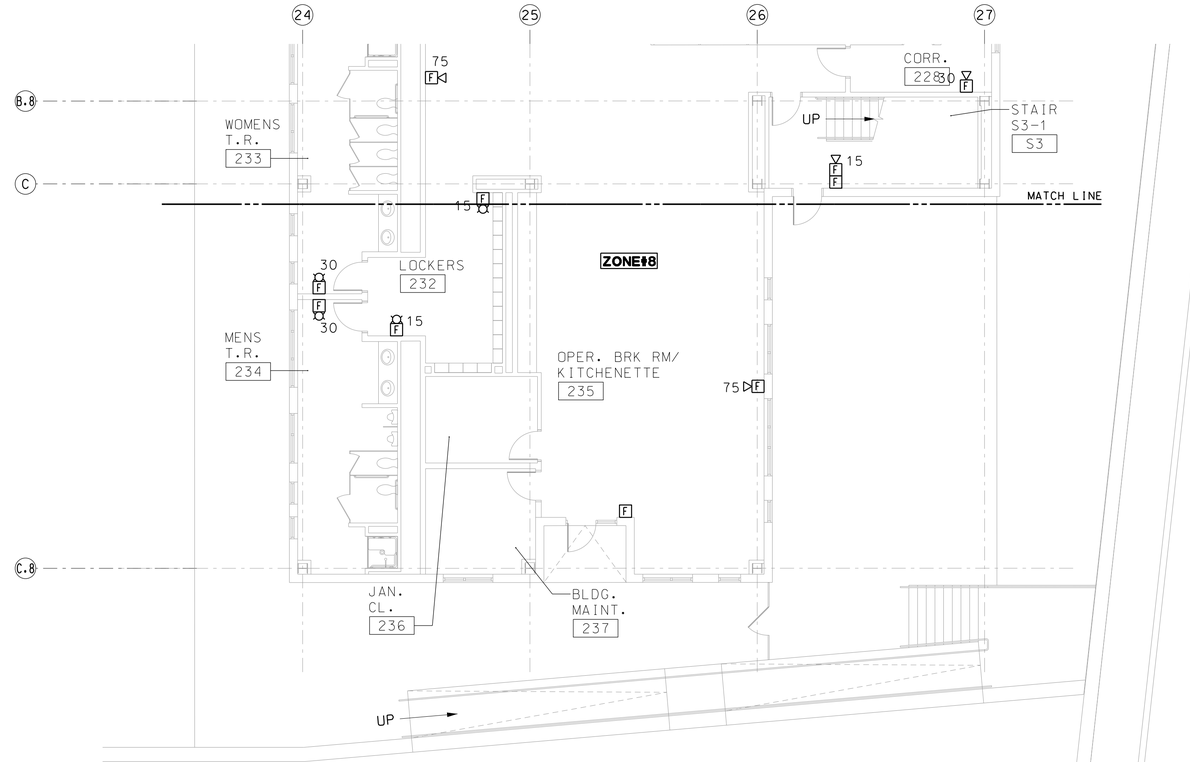
CONTRACT NO. T-1042-0220

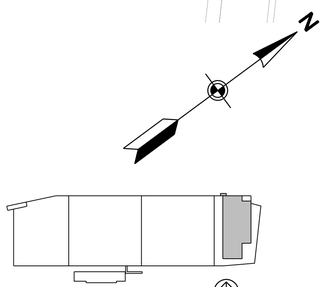
DRAWING NO. EL-L15

SHEET NO. 151 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA15.dgn
11/26/2013







OFFICE FIRST FLOOR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE FIRST FLOOR PLAN – FIRE ALARM

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L16
SHEET NO. 152 OF 443

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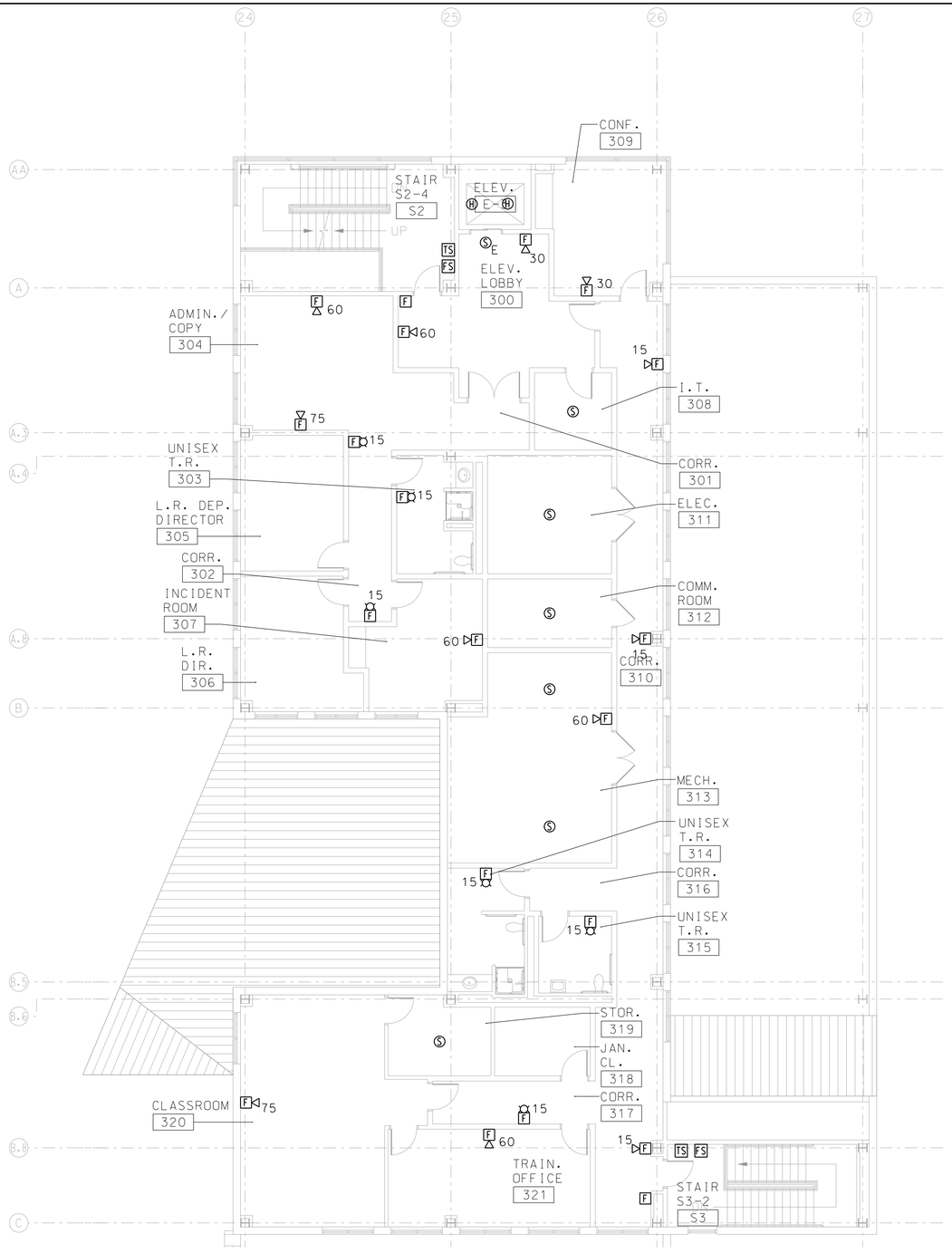
11/13/2013

SHEET NOTES

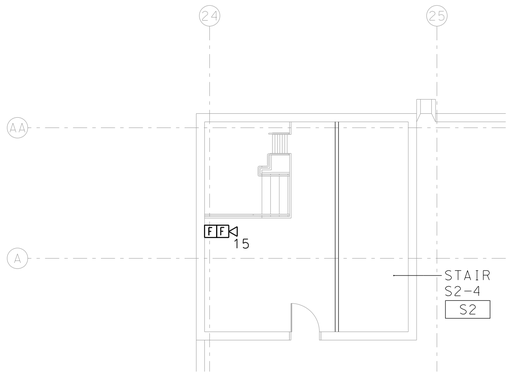
A. REFER TO DRAWING EL-L01 FOR ELECTRICAL ABBREVIATIONS, SYMBOLS AND GENERAL NOTES.

B. COORDINATE ELECTRICAL EQUIPMENT AND CONDUIT INSTALLATION WITH MECHANICAL WORK, OVERHEAD PLUMBING PIPING, AND OTHER EQUIPMENT.



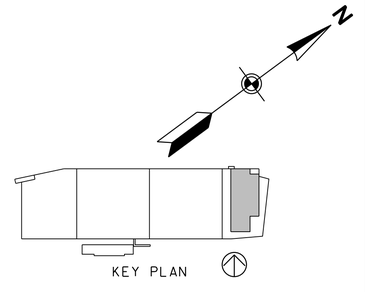
OFFICE SECOND FLOOR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"



ROOF STAIR PLAN - FIRE ALARM

SCALE: 1/8" = 1'-0"



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE SECOND FLOOR PLAN – FIRE ALARM

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L17

SHEET NO. 153 OF 443

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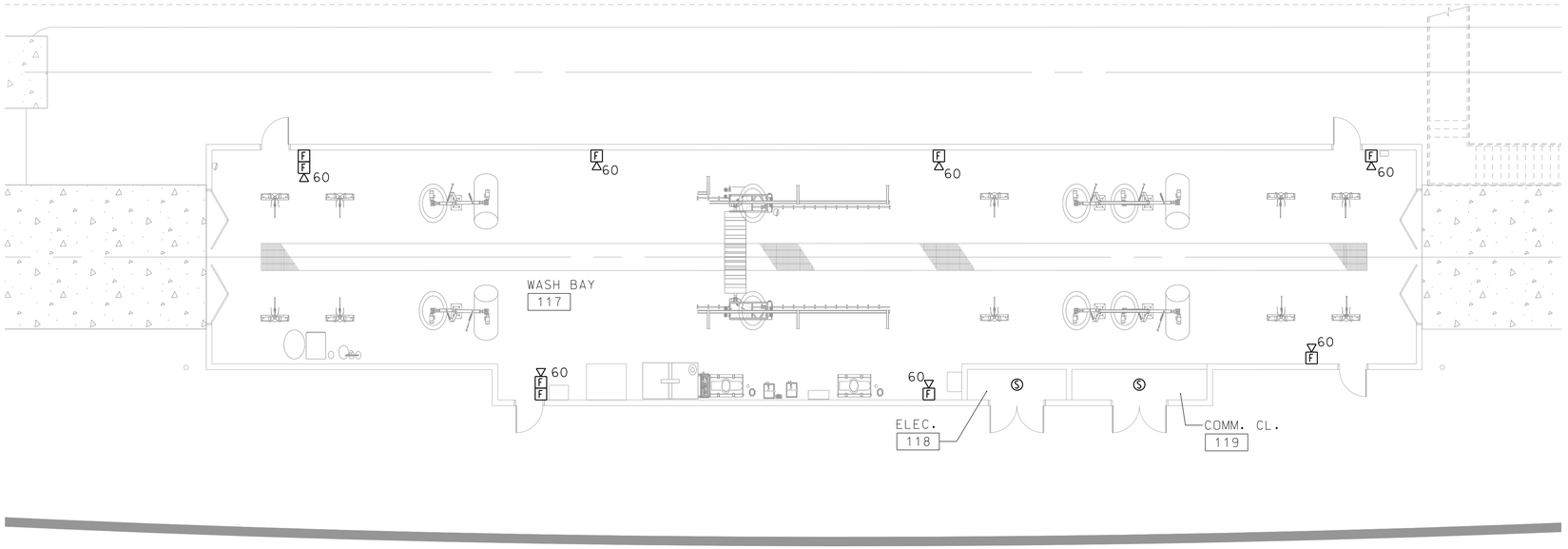
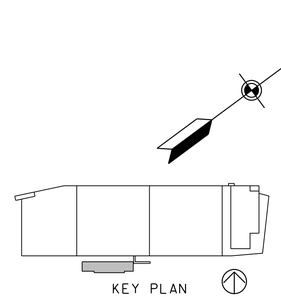
11/13/2013



WASH BUILDING - FIRE ALARM

SCALE: 1/8"=1'-0"



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING – FIRE ALARM

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L18

SHEET NO. 154 OF 443

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11/13/2013

LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTIONS	MANUFACTURER/CATALOG NO	EQUAL MANUFACTURER	LAMP	VOLT	WATTS	MOUNTING	REMARKS
A		2'X2' FLUORESCENT LIGHTING FIXTURE	LITHONIA 2SP8-G-2-CF40-A12125 -MVOLT-ACNS-LP835		(2) CF40 835	277		RECESSED	FOR CORRIDORS
A1		2'X2' FLUORESCENT LIGHTING FIXTURE ON EMERGENCY POWER	LITHONIA 2SP8-G-2-CF40-A12125 -MVOLT-EL		(2) CF40 835	277		RECESSED	FOR CORRIDORS
B		2'X4' FLUORESCENT LIGHTING FIXTURE	LITHONIA 2SP5-G-3-54T5HO-RA125 -MVOLT-GEB10PS-LB835		(3) 54T5HO 835	277		RECESSED	FOR OFFICES
B1		2'X4' FLUORESCENT LIGHTING FIXTURE ON EMERGENCY POWER	LITHONIA 2SP5-G-3-54T5HO-RA125 -MVOLT-GEB10PS-EL14		(3) 54T5HO 835	277		RECESSED	FOR OFFICES
C		4-FT. COVE PERIMETER FLUORESCENT LIGHTING FIXTURE	COPPER NEORAY 70-2-T5-UNV-EB-SI-S72		(2) T5	277		RECESSED	FOR TOILETS
C1		VARIOUS LENGHT COVE PERIMETER FLUORESCENT LIGHTING FIXTURE	COPPER NEORAY 70-2-T5-UNV-EB-SI-S72		(2) T5	277		RECESSED	FOR TOILETS SEE NOTE 4.
D		4-FT. SURFACE WALL MOUNTED FLUORESCENT LIGHTING FIXTURE				277		SURFACES	
D1		4-FT. WALL MOUNTED FLUORESCENT LIGHTING FIXTURE ON EMERGENCY POWER	COPPER STAIRLITE 2 SL2-4-7			277		SURFACES	FOR STAIRS
E		LED EXIT SIGNS	COPPER SURE-LITE EU-S-60-R			120-277		WALL / CEILING	
F		4-FT. INDUSTRIAL STRIP LIGHT	LITHONIA EJS-2-32-MVOLT-BPHP		(2) T5	277		SURFACES / PENDANT	STORAGE / ELECTRICAL / MECHANICAL ROOM
F1		4-FT. STRIP LIGHT ON EMERGENCY POWER	LITHONIA EJS-2-32-MVOLT-EL		(2) T5	277		SURFACES / PENDANT	ELECTRICAL / MECHANICAL ROOM
G		6" RECESSED DOWNLIGHT	LITHONIA LP6FN-26TRT-609AZ-MVOLT		CF	277		RECESSED	FOR VESTIBULES
G1		6" RECESSED DOWNLIGHT WITH CLEAR LENS	LITHONIA LP6FN-26TRT-609AZ-CGL-MVOLT		CF	277		RECESSED	FOR TOILETS / SHOWERS
G2		6" RECESSED DOWNLIGHT WITH DIMMING BALLAST	LITHONIA LP6FN-26TRT-609AZ-CGL-MVOLT-ECOS		CF	277		RECESSED	CONFERENCE ROOM
G3		6" DOWNLIGHT ON EMERGENCY POWER	LITHONIA LP6FN-26TRT-609AZ-CGL-MVOLT		LED	277		RECESSED	
H		LED HIGHBAY LIGHTING FIXTURE	COPPER METALUX HBLED-LD2-24-N-CL-UNIV-L850-CD3		LED	277		PENDANT	FOR WASH AREAS
K		LED CANOPY LIGHTING FIXTURE	COPPER CONCISE CNC-B03-LED-E1-RW		(3) 21 LED BARS	277		PENDANT	FOR YARD STORAGE AREAS
L		6" EXTERIOR LIGHTING FIXTURE				277		RECESSED / SURFACE	ENTRANCE / EXIT ROUTES
M		VAPORTIGHT COMPACT FLUORESCNT LIGHTING FIXTURE	COPPER PL-VS-W-GG-32-UNV		CF	120		SURFACES	ELEVATOR PIT
P		LED YARD / TRACK LIGHT SINGLE LIGHT UNIT WITH 25 FT. POLE	COPPER VENTUR VTS-B10-LED-E1-T4		(8) LED BARS	277		25 FT. POLE	FOR PARKING, YARD AND TRACK AREAS

NOTES

1. COORDINATE LIGHTING FIXTURE INSTALLATION WITH CEILING TYPE. SEE DETAILS FOR LIGHTING FIXTURE SUPPORTING.
2. ALL LAMPS SHALL BE LOW-MERCURY TYPE.
3. LIGHTING FIXTURE TO BE DIMED TO 90% DURING EVENING AND 50% DURING OVERNIGHT SECURITY HOURS. DAY-LIGHTING PHOTO SENSOR TO ACTIVE LIGHTING FIXTURE DURING DAYTIME HOURS AND REQUIRED.
4. PROVIDE LIGHTING FIXTURE LENGHT WITH ROOM DIMENSION TO FILL-IN. COORDINATE WITH MANUFACTURER FOR LIGHTING FIXTURE HOUSING STANDARD LENGHTS.

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION MTA Maryland

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DESGN MB
DRAWN DP
CHECK LJ
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
LIGHTING FIXTURE SCHEDULE

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L20
SHEET NO. 155 OF 443

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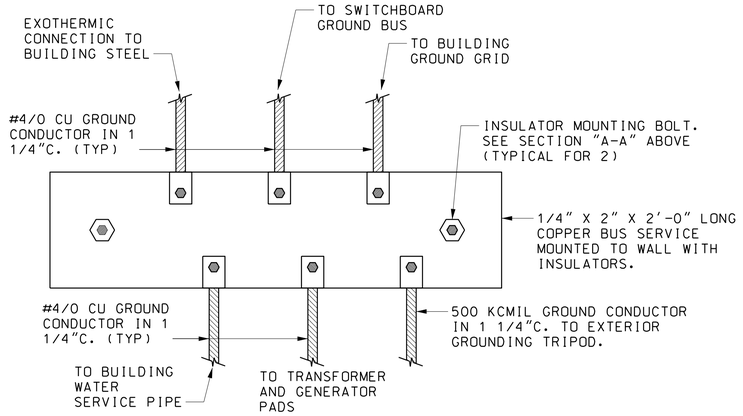
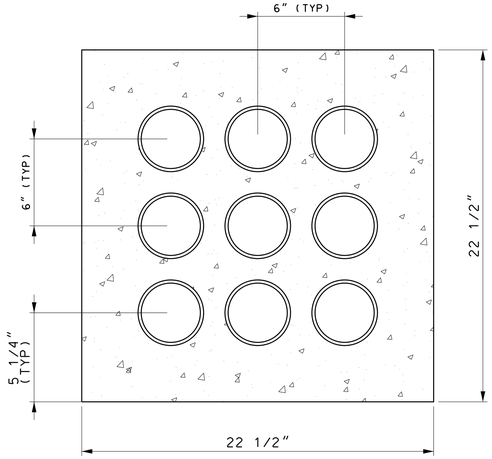
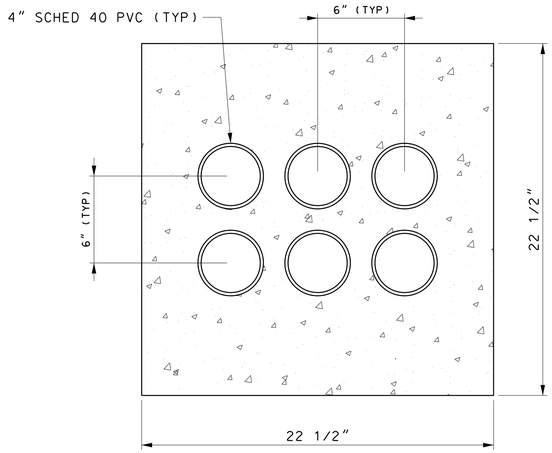
11/13/2013



FRONT VIEW

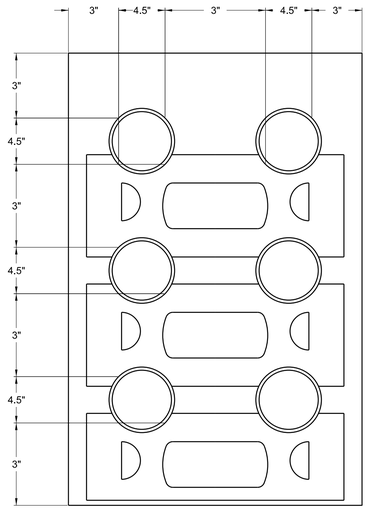
SCALE: NOT TO SCALE





TYPICAL 9 AND 6-WAY - 4" PVC CONCRETE ENCASED DETAIL

SCALE: NOT TO SCALE



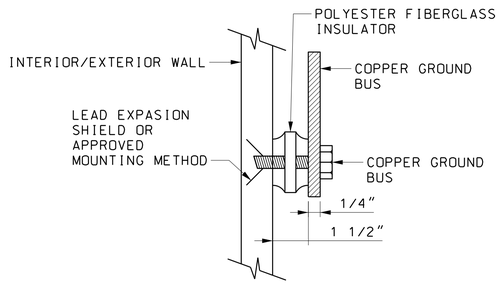
TYPICAL 6-WAY DUCTBANK

SCALE: NOT TO SCALE

CONCRETE SHALL BE 3,000 PSI @ 28 DAYS OR AS SPECIFIED.

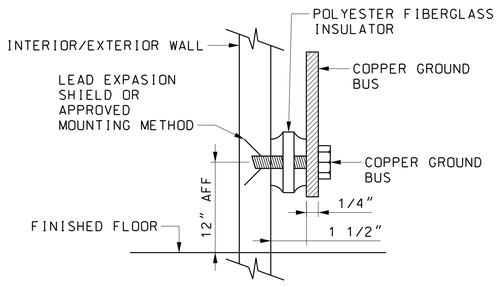
PROVIDE REINFORCING RODS ON TOP OF DUCTS PLACING IN ROADWAYS, CROSSING ROADWAYS, ENTERING BUILDINGS, OR ENTERING MANHOLES.

NOMINAL COVER TO TOP OF ENVELOP SHALL BE 30". PROVIDE CONDUIT SPACERS.



SECTION A-A

SCALE: NOT TO SCALE



SECTION A-A

SCALE: NOT TO SCALE

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MARYLAND TRANSIT ADMINISTRATION — MTA Maryland

Gannett Fleming WR&A

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DESGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

ELECTRICAL DETAILS – 1

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L21

SHEET NO. 156 OF 443

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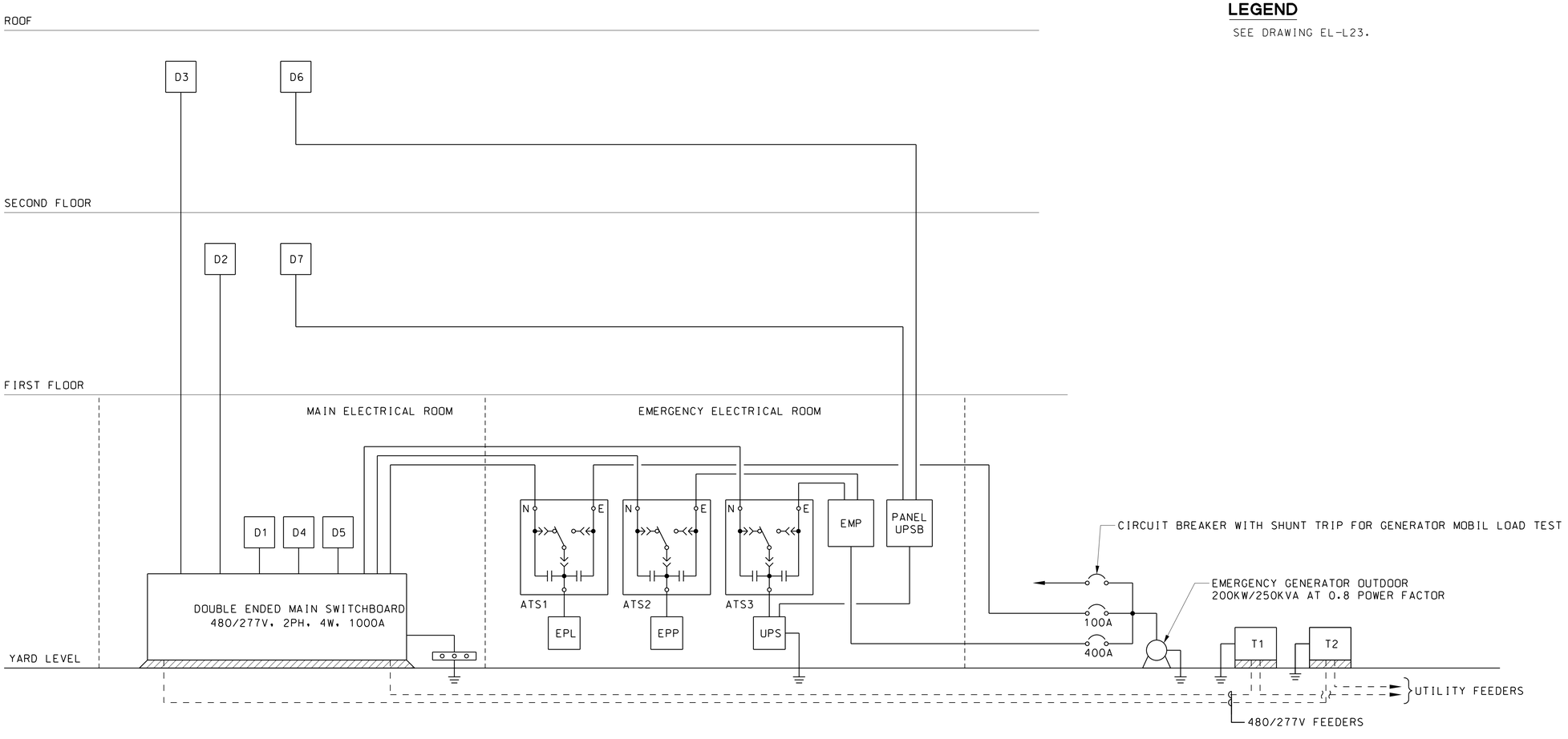
11/13/2013

LEGEND

SEE DRAWING EL-L23.



POWER RISER DIAGRAM

SCALE: NOT TO SCALE

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

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DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
POWER RISER DIAGRAM

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L22
SHEET NO. 157 OF 443

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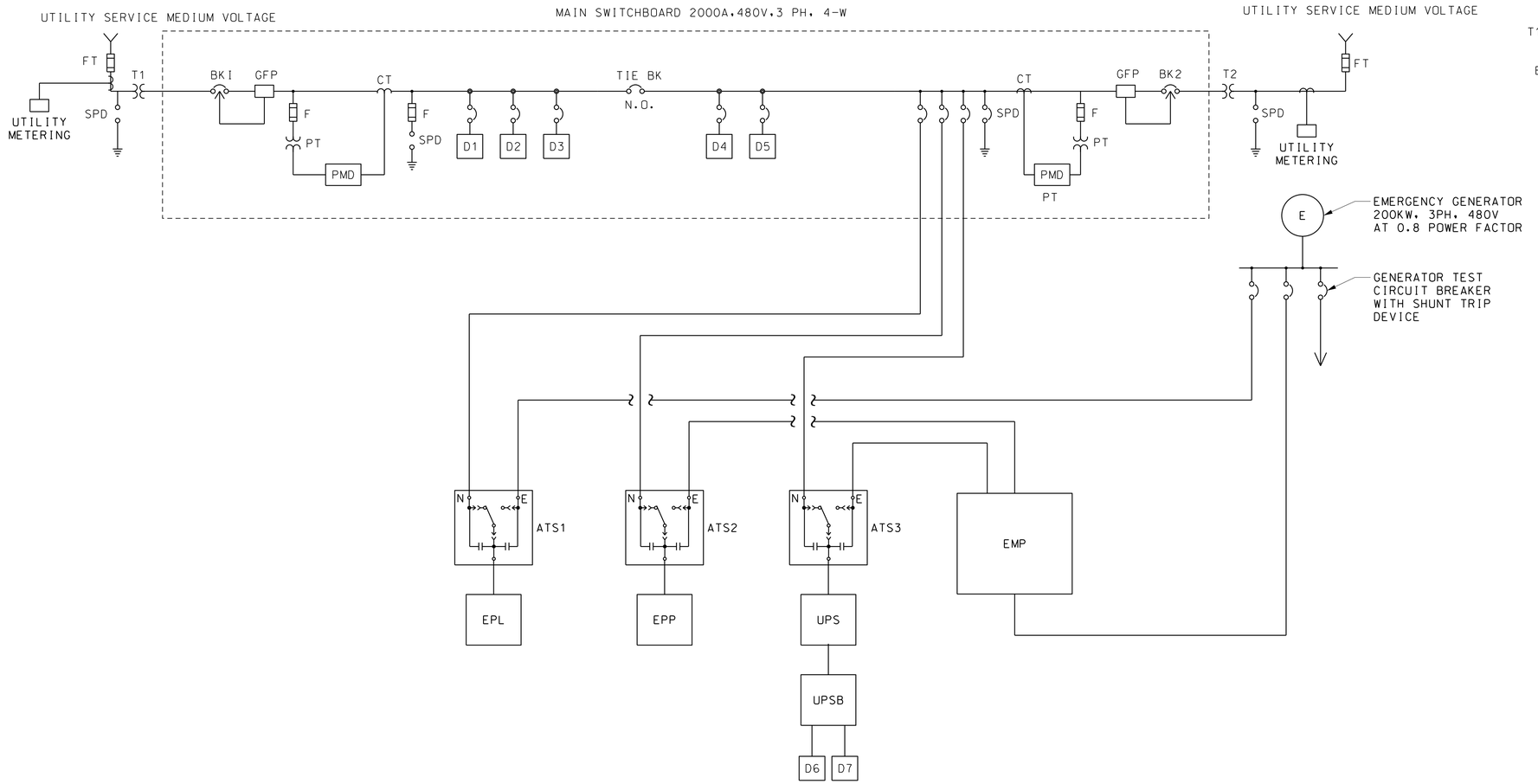
11/13/2013



POWER SINGLE LINE DIAGRAM - DOUBLE ENDED FEED

SCALE: NOT TO SCALE

LEGEND

FT	MEDIUM VOLTAGE FUSE.
SPD	SURGE PROTECTION DEVICE.
T1 AND T2	1500 KVA, TRANSFORMER, PRIMARY MEDIUM VOLTAGE, SECONDARY 480 /277, 3PH.
BK1, BK2	2000A, 600V, 3PH.
GFP	GROUND FAULT PROTECTION RELAY.
F	LOW VOLTAGE FUSE.
PT	POTENCIAL TRANSFORMER.
CT	CURRENT TRANSFORMER.
TIE BK	TIE CIRCUIT BREAKER.
D1	ELECTRICAL DISTRIBUTION PANEL FOR SPACE IN YARD LEVEL STORAGE AREAS---400A, 3PH, 4-WIRE + GROUND.
D2	ELECTRICAL DISTRIBUTION PANEL FOR FIRST FLOOR LEVEL. 400A, 480V, 3 PH, 4- WIRE + GROUND.
D3	ELECTRICAL DISTRIBUTION PANEL FOR SECOND FLOOR LEVEL. 225A, 480V, 3 PH, 4-WIRE + GROUND.
D4	ELECTRICAL DISTRIBUTION PANEL FOR WASH BUILDING. 600A, 480V, 3 PH, 4-WIRE + GROUND.
D5	ELECTRICAL DISTRIBUTION PANEL SPARE. 225A, 480V, 3 PH, 4 WIRE + GORUND.
EMP	MAIN EMERGENCY PANEL, 400A, 480V, 3 PH, 4-WIRE + GROUND.
EPL	EMERGENCY ELECTRICAL PANEL FOR LIFE SAFETY SYSTEM 100A, 480V, 3 PH, 4-WIRE + GROUND.
EPP	EMERGENCY ELECTRICAL PANEL, 225A, 480V, 3 PH, 4 WIRE + GROUND. (STAND BY POWER).
UPS	
UPSB	MAIN UPS PANEL, 208/120V, 3 PHASE, 5 WIRE UPS PANEL
D6	208/120V, 3 PHASE, 5 WIRE UPS PANEL
D7	208/120V, 3 PHASE, 5 WIRE UPS PANEL

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
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SILVER SPRING, MARYLAND

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PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
POWER SINGLE LINE DIAGRAM

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L23
SHEET NO. 158 OF 443

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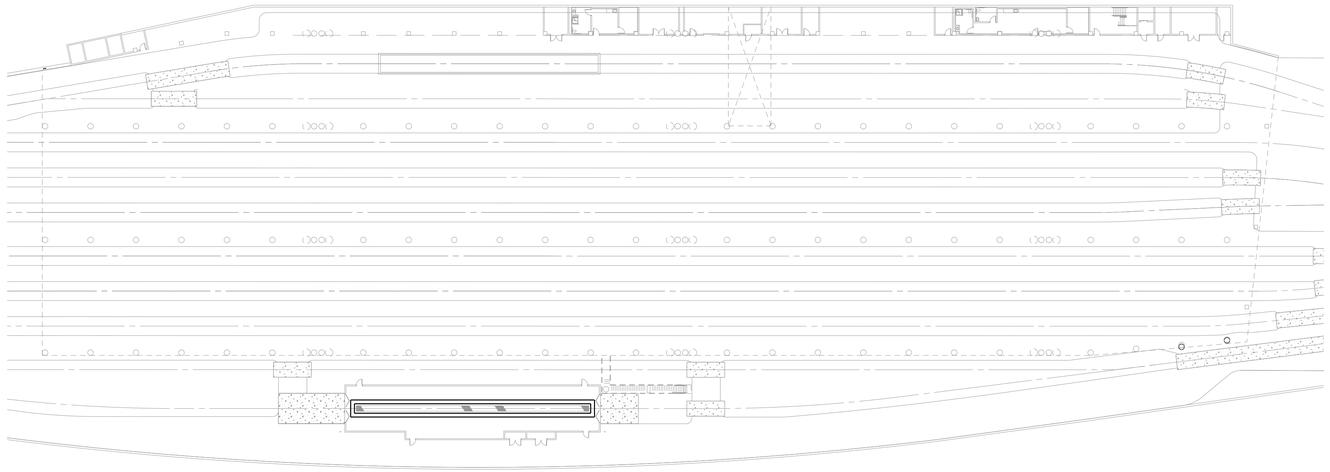
11/13/2013



YARD LEVEL

FIRST FLOOR SECOND FLOOR

FIRE ALARM ANNUNCIATOR PANEL LYTTONSVILLE SHOP AND YARD

TROUBLE SILENCE

LAMP TEST

SYSTEM RESET

KEY

ALARM LOCATION

(R) SECOND FLLOR

(R) FIRST FLOOR

(R) YARD LEVEL

POWER STATUS

(G) NORMAL POWER ON

(R) BATTERY POWER ON

(Y) SYSTEM TROUBLE

FIRE ALARM ANNUNCIATOR PANEL

SCALE: 1" = 40'

DEVICE TYPE

(R) MANUAL PULL STATION

(R) SMOKE DETECTOR

(R) HEAT DETECTOR

(Y) DUCT SMOKE DETECTOR

(Y) TAMPER SWITCH

(R) WATER FLOOR SWITCH

(Y) ELEVATOR ROOM SMOKE DETECTOR

(Y) BEAM DETECTOR

(Y) ELEVATOR ROOM HEAT DETECTOR

(G) FIRE CURTAIN OPEN

(R) FIRE CURTAIN CLOSED

NOTES

(R) LED RED

(G) LED GREEN

(Y) LED YELLOW

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PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

FIRE ALARM ANNUNCIATOR PANEL DIAGRAM

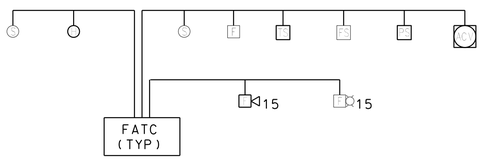
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220

DRAWING NO. EL-L24

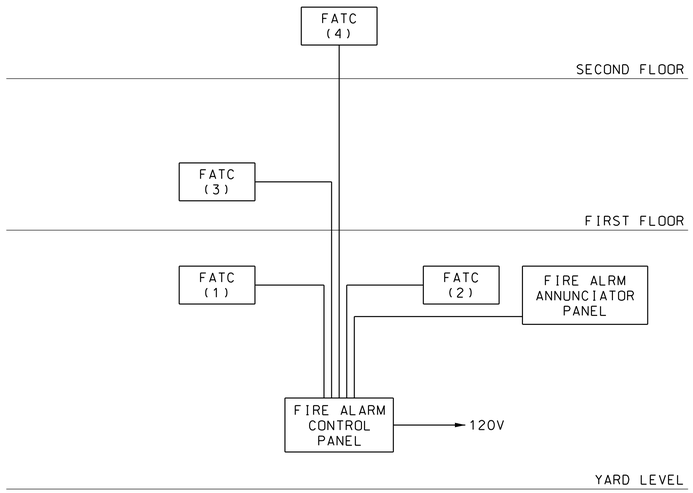
SHEET NO. 159 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Electrical\Sheet Files\1042pELLA24.dgn
11/26/2013



FIRE ALARM TERMINAL CABINET TYPICAL CONNECTIONS

SCALE: NOT TO SCALE



FIRE ALARM RISER AND ANNUNCIATOR PANEL DIAGRAM

SCALE: NOT TO SCALE

LEGEND

FATC	FIRE ALARM TERMINAL CABINET
FATC (1)	LOCATED AT YARD LEVEL WEST
FATC (2)	LOCATED AT YARD LEVEL EAST
FATC (3)	LOCATED AT FIRST FLOOR
FATC (4)	LOCATED AT SECOND FLOOR

FIRE ALARM NOTES

1. ALL WIRING SIZES, RACEWAY SIZES, AND THEIR QUANTITIES SHALL BE STRICTLY IN ACCORDANCE WITH THE FIRE ALARM MANUFACTURER'S RECOMMENDATIONS AND CITY OF BALTIMORE FIRE MARSHAL REQUIREMENTS. ALL WIRING SHALL BE INSTALLED IN EMT RACEWAYS.
2. FIRE ALARM SYSTEM RISER DIAGRAM IS DIAGRAMMATIC. RUNS OF RACEWAYS AND THE MANNER OF CONNECTIONS SHALL BE DETERMINED BY THE CONTRACTOR IN FIELD. THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL MEET SYSTEM'S MANUFACTURER AND MARYLAND STATE FIRE MARSHAL'S REQUIREMENTS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO SUBMIT THE FIRE ALARM SYSTEM SHOP DRAWINGS TO STATE OF MARYLAND FIRE MARSHALL AND OBTAIN FIRE MARSHAL'S APPROVAL PRIOR TO ANY SUBMISSION TO ARCHITECT OF RECORD AND ENGINEER AND ANY INSTALLATION OF THE SYSTEM WORK.
4. FIRE ALARM SYSTEM DEVICES AND EQUIPMENT ARE SHOWN ON THE PLANS.
5. ALL MANUAL PULL STATIONS SHALL BE LOCATED WITHIN 5 FEET OF THE EXIT DOORS. ALL FIRE ALARM VISUAL DEVICES SHALL BE MOUNTED AT A HEIGHT WHICH IS IN THE LINE OF SIGHT AND ADA REQUIREMENTS. SEE DETAIL 2/E5.05 ON THIS SHEET FOR MOUNTING HEIGHT OF FIRE ALARM DEVICES.
6. NUMBER OF SMOKE DETECTORS SHOWN IN EACH ROOM MAYBE LESS THAN THE ACTUAL NUMBER REQUIRED TO MEET NFPA72 REQUIREMENTS. PROVIDE A SUFFICIENT NUMBER OF DETECTORS TO COVER ALL POCKETS CREATED BY EXPOSED CEILING BEAMS.
7. FIRE ALARM SYSTEM SHALL BE COORDINATED WITH FIRE PROTECTION SYSTEM IN PREPARING ZONES. THE FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED AFTER COORDINATING WITH APPROVED SHOP DRAWINGS OF FIRE PROTECTION SYSTEM.
8. PROVIDE EMERGENCY GENERATOR STATUS INDICATING FOR EMERGENCY POWER "ON" AND "OFF"
9. PROVIDE SHUT OFF SWITCHES FOR HVAC UNITS IN ACCORDANCE WITH NFPA 72, BOTH AT ANNUNCIATION PANEL AND AT FIRE ALARM CONTROL PANEL.
10. SHOP DRAWINGS SHALL INCLUDE ALL BUILDING FLOOR PLANS INDICATING THE ZONES AND THE LOCATIONS OF ALL FIRE ALARM EQUIPMENT, DEVICES AND OTHER COMPONENTS SUCH AS JUNCTION BOXES. SHOP DRAWINGS SHALL CLEARLY INDICATE THE CANDELA POWER AND SOUND LEVEL WITH EACH DEVICE AND THEIR MOUNTING HEIGHT ON THE FLOOR PLANS.
11. SUBMIT FIRE ALARM WIRING RISER DIAGRAM, PANEL WIRING DIAGRAM AND EACH DEVICE WIRING DETAILS CLEARLY INDICATING THE NUMBER OF CONDUCTORS AND THE SIZE OF CONDUIT.
12. SHOP DRAWINGS SHALL CLEARLY INDICATE THE PHYSICAL DIMENSIONS OF EACH EQUIPMENT AND/OR DEVICE.
13. SHOP DRAWINGS SHALL INCLUDE THE FIRE ALARM ANNUNCIATION PANEL INDICATING THE FLOOR PLANS, EXITS AND ALL INDICATING LIGHTS AND CONTROLS ETC. IN ACCORDANCE WITH NFPA 72 AND CITY OF BALTIMORE FIRE MARSHALL.
14. SHOP DRAWING SHALL INCLUDE BATTERY CALCULATIONS IN ACCORDANCE WITH SPECIFICATIONS. BATTERY CALCULATIONS SHALL INDICATE NUMBER OF EACH TYPE OF DEVICE, CURRENT REQUIREMENTS AND LOCATION.
15. SHOP DRAWINGS SHALL INCLUDE THE LIST OF SPARE PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO SUPPLY THESE SPARE PARTS TO THE OWNER AT THE COMPLETION OF THE PROJECT.
16. SHOP DRAWINGS SHALL INCLUDE INSTALLATION AND PROGRAMMING INSTRUCTIONS.
17. ACTUAL COUNTS OF FIRE ALARM DEVICES IS PER PLANS.

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DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
RISER AND NOTES – FIRE ALARM

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T–1042–0220
DRAWING NO. EL–L25
SHEET NO. 160 OF 443

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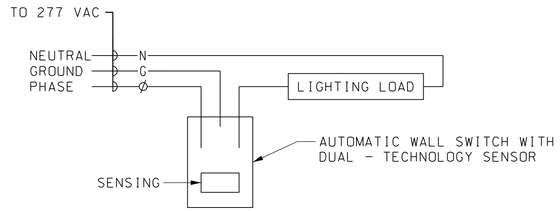
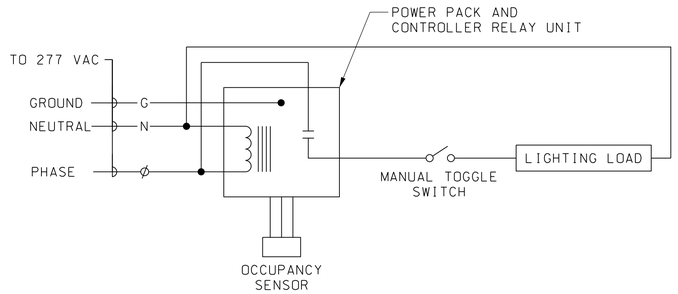


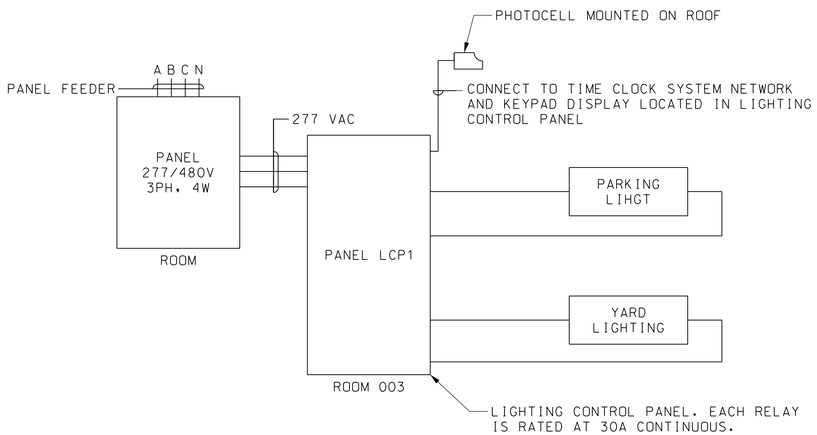
1 EL-L26 SINGLE LEVEL WALL - SWITCH WITH SENSOR WIRING DIAGRAM (SMALL ROOM)

SCALE: NOT TO SCALE
REF:



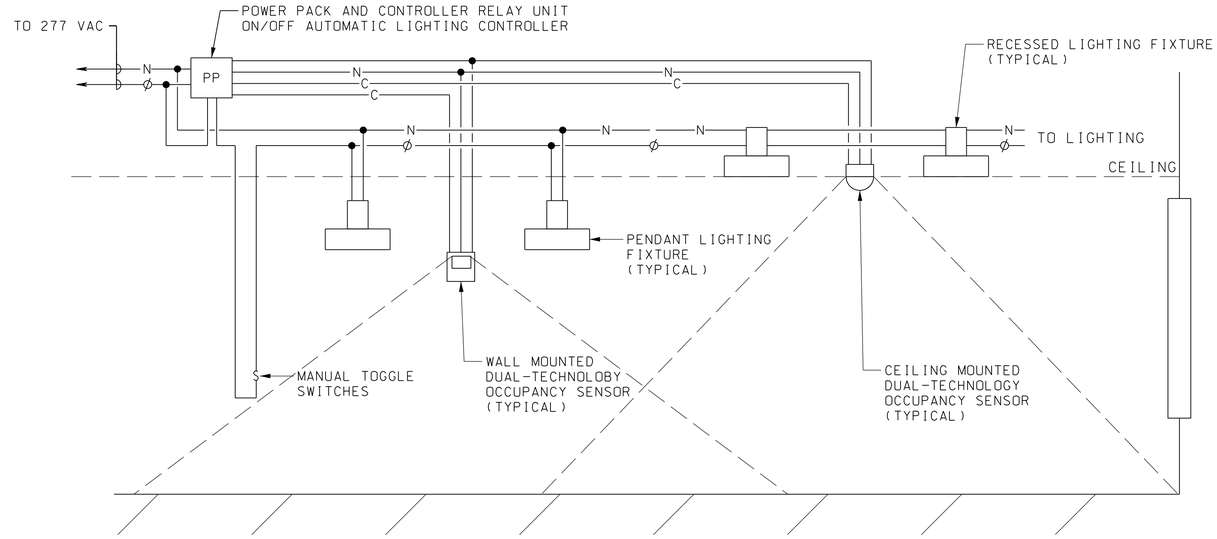
2 EL-L26 LIGHTING SWITCHING WITH OCCUPANCY SENSOR CONTROL WIRING DIAGRAM (LARGE ROOM)

SCALE: NOT TO SCALE
REF:



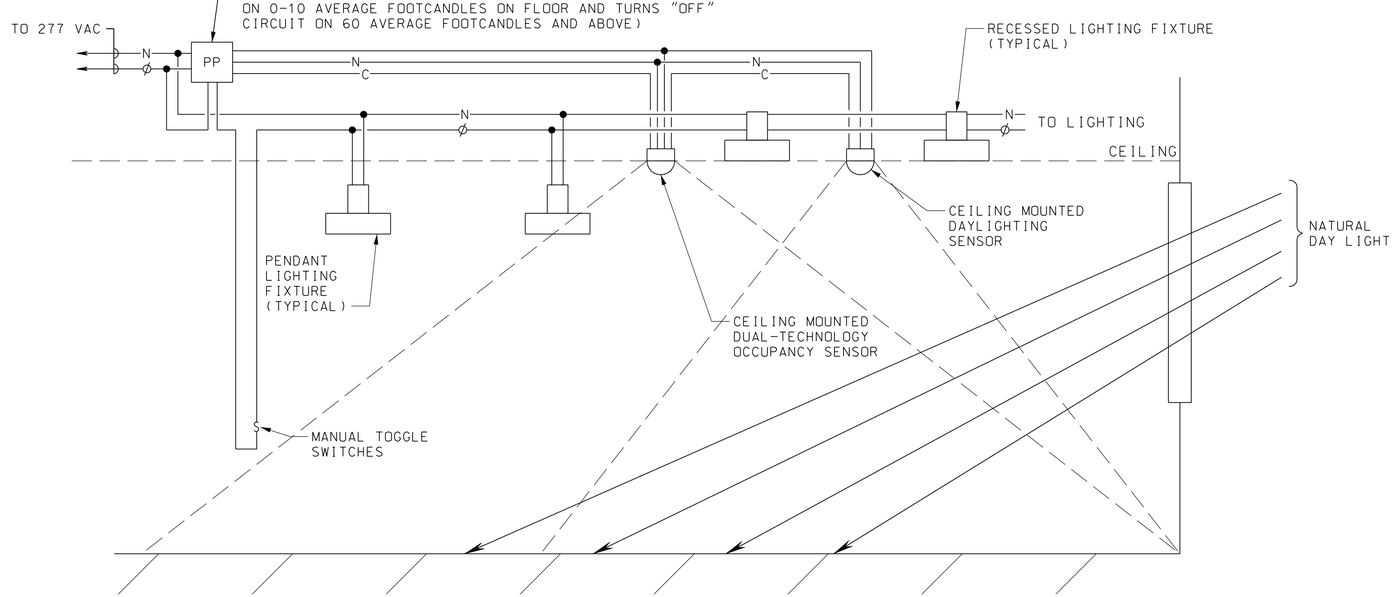
3 EL-L26 PARKING LOT/YARD LIGHTING CONTROL DIAGRAM

SCALE: NOT TO SCALE
REF:



4 EL-L26 AUTOMATIC CEILING/WALL MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR LIGHTING CONTROL DIAGRAM

SCALE: NOT TO SCALE
REF:



5 EL-L26 AUTOMATIC DAYLIGHTING CIRCUIT CONTROL (ON-OFF) WITH DAYLIGHTING CONTROLLER AND OCCUPANCY SENSOR

SCALE: NOT TO SCALE
REF:

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DESGN	EUI
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ELECTRICAL DETAILS – 2

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. EL-L26
SHEET NO. 161 OF 443

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11/13/2013

SYMBOLS AND ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AMPS	AMPERES
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLW	BELOW
CFH	CUBIC FEET PER HOUR
CLG	CEILING
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
CONN	CONNECTION
CONT'N	CONTINUATION
CONTR	CONTRACTOR
°C	DEGREES CENTIGRADE
DIA	DIAMETER
DIAG	DIAGRAM
DISCH	DISCHARGE
DIW	DOWN IN WALL
DN	DOWN
DWG	DRAWING
(E)	EXISTING
EA	EACH
ELEV	ELEVATION
ENT	ENTERING
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ETC	ET CETERA
EXT	EXTERNAL
FA	FROM ABOVE
FB	FROM BELOW
FIN	FINISHED
FL	FLANGE
FLEX	FLEXIBLE
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
FT	FEET
FTB	FLOOR TO BOTTOM
FDC	FIRE DEPARTMENT CONNECTION
FXC	FLEXIBLE CONNECTION
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HT	HEIGHT
HD	HEAD (SEE SCHEDULES)
HP	HORSE POWER
ID	INTERNAL DIAMETER
INCL	INCLUDING
INV	INVERT
LH	LIGHT HAZARD
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
No	NUMBER
NO	NORMALLY OPEN
NPW	NON-POTABLE WATER
NOM	NOMINAL
NTS	NOT TO SCALE
OHGR-1	ORDINARY HAZARD - GROUP 1
OHGR-2	ORDINARY HAZARD - GROUP 2
OD	OUTSIDE DIMENSION
OPG	OPENING
OS	OPEN SITE
OT	OFF TOP
PART	PARTIAL
PH	PHASE
POS	POSITIVE
PRESS	PRESSURE
PRV	PRESSURE REGULATING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PG	PRESSURE GAUGE
PI	PRESSURE INDICATOR
QT.	QUANTITY
QD	QUICK DISCONNECT
RAC	RUN ABOVE CEILING
RAF	RUN ABOVE FLOOR
RATC	RUN AT CEILING
RBC	RUN BELOW CEILING
RBF	RUN BELOW FLOOR
RBJ	RUN BETWEEN JOIST
RCP	REINFORCED CONCRETE PIPE
REL	RELIEF
REQD	REQUIRED
RPM	REVOLUTION PER MINUTES
SCH	SCHEDULE
SCHEM	SCHEMATIC
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SST	SUPPORT STEEL
STD	STANDARD
STL	STEEL
STR	STRAINER
SUP	SUPPLY
SYS	SYSTEM
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TP	TOTAL PRESSURE
TYP	TYPICAL
TS	TAMPER SWITCH
W	WIDTH
W/	WITH
W/O	WITHOUT

	VALVE (GENERAL)
TS TS	OS&Y VALVE W/TS
	POST INDICATOR VALVE
	OS&Y VALVE
	CHECK VALVE
	PRIVATE HYDRANT ONE HOSE OUTLET
TS TS / TS TS	DOUBLE CHECK TYPE BACKFLOW PREVENTER
2½"FHV W/1½"REDUCER STANDPIPE	FIRE HOSE VALE/ STANDPIPE
FDC FDC	SIAMESE FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FS	FLOW DETECTOR / SWITCH
PRV PRV	PRESSURE REDUCING VALVE
	TAMPER DETECTOR / SWITCH
	VALVE WITH TAMPER DETECTOR / SWITCH
	SPRINKLER PIPING AND BRANCH LINE
	PIPE HANGER
	ALARM CHECK VALVE
STR STR	STRAINER
PSg	PRESSURE SWITCH
PG	PRESSURE GAUGE
F / X	FIRE PROTECTION RISER NUMBER

FIRE PROTECTION GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13, NFPA 14, AND NFPA 20.
2. SPRINKLER WATER DEMAND SHALL BE BASED ON ORDINARY HAZARD (GROUP 1) OCCUPANCY REQUIREMENTS. WATER DENSITY OF 0.15 GPM PER SQ FT AND 1500 SQ FT PROTECTION AREA. SPRINKLER HEAD COVERAGE OF 130 SQ FT IN COMPLIANCE WITH NFPA 13, AUTHORITIES HAVING JURISDICTION.
3. THE SPRINKLER CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS AND SPECIFICATIONS FOR THIS PROJECT AND SHALL BE AWARE OF THE WORK OF ALL OTHER TRADES WHICH MAY REQUIRE COORDINATION.
4. ALL FIRE PROTECTION PLANS ARE DIAGRAMMATIC IN FORM AND ARE FOR INFORMATION ONLY TO SHOW POTENTIAL FIELD ARRANGEMENT. THE CONTRACTOR SHALL FABRICATE PIPING SYSTEM BASED ON FIELD MEASUREMENTS TO ENSURE THE PROPER ROUTING AND FIT.
5. SPRINKLER CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS FOR SIZING THE SPRINKLERS, SHALL BE APPROVED BY FIRE MARSHALL, OR AUTHORITY HAVING JURISDICTION.
6. SPRINKLER CONTRACTOR IS REQUIRED TO INSPECT THE SITE AND ALL RELATED DOCUMENTS PRIOR TO START OF WORK.
7. SPRINKLER CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGINNING WORK AND SHALL NOTIFY THE OWNER OF ANY CONFLICT, OMISSIONS OR DISCREPANCIES.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND PAY ALL FEES RELATIVE TO THE INSTALLATION OF HIS WORK.
9. INSTALL DRAIN VALVE AT EVERY LOW POINT ON HORIZONTAL PIPING.
10. IT SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES AND SHALL PROVIDE ALL REQUIRED OFFSETS IN PIPING TO ACCOMPLISH THE WORK AT NO ADDITIONAL COST TO THE OWNER.
11. INSTALL HORIZONTAL PIPING WITH MINIMUM PITCH OF ONE INCH IN 40 FEET.
12. INSTALL SLEEVES WHERE VERTICAL PIPING PASSING THROUGH ANY SLAB.

GENERAL NOTES

DESIGN CRITERIA

A. LIGHT HAZARD
WATER DENSITY = 0.10 GPM/SQ. FT.
DESIGN AREA = 1500 SQ. FT.
MAXIMUM SPRINKLER COVERAGE = 225 SQ. FT.

B. ORDINARY HAZARD - GROUP 1
WATER DENSITY = 0.15 GPM/SQ. FT.
DESIGN AREA = 1500 SQ. FT.
MAXIMUM SPRINKLER COVERAGE = 130 SQ. FT.

C. ORDINARY HAZARD - GROUP 2
WATER DENSITY = 0.20 GPM/SQ. FT.
DESIGN AREA = 1500 SQ. FT.
MAXIMUM SPRINKLER COVERAGE = 130 SQ. FT.

DRAWING LISTS

MARYLAND DEPARTMENT OF TRANSPORTATION
MARYLAND TRANSIT ADMINISTRATION
MTA Maryland

Gannett Fleming
WR&A

DIVERSIFIED ENGINEERING, INC. SILVER SPRING, MARYLAND

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DESIGN BK
DRAWN DP
CHECK LJ
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
PROTECTION NOTES, SYMBOLS & ABBREVIATIONS
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. FP-L01
SHEET NO. 162 OF 443

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11/13/2013

YARD STORAGE

ROOM NO.	AREA/LOCATION	SYSTEM	OCCUPANCY CLASSIFICATION	DENSITY GPM/SF	ZONE
100	UNISEX TOILET ROOM	WET	LH	0.10	2
101	LIGHT RAIL BREAK ROOM	WET	LH	0.10	2
102	LIGHT RAIL OFFICE	WET	LH	0.10	2
103	LIGHT RAIL MAINTENANCE STORAGE	WET	OHGR-1	0.15	2
104	CLEANING SUPPLY STORAGE	WET	OHGR-1	0.15	2
105	ELECTRICAL ROOM	WET	OHGR-1	0.15	2
106	BULK FLUID STORAGE	WET	OHGR-2	0.20	2
107	UNISEX TOILET ROOM	WET	LH	0.10	3
108	UNISEX TOILET ROOM	WET	LH	0.10	3
109	CORRIDOR	WET	LH	0.10	3
110	CLEANING BREAK ROOM	WET	LH	0.10	3
111	CLEANING OFFICE	WET	LH	0.10	3
112	CORRIDOR	WET	LH	0.10	3
113	WATER SERVICE	WET	OHGR-1	0.15	3
114	ELECTRICAL SERVICE	WET	OHGR-1	0.15	3
115	EMERGENCY ELECTRICAL SERVICE	WET	OHGR-1	0.15	3
116	ELEVATOR LOBBY	WET	OHGR-1	0.15	3
117	WASH BAY	WET	OHGR-1	0.15	3
118	ELECTRICAL	WET	OHGR-1	0.15	3
119	COMM. CLOSET	WET	OHGR-1	0.15	3
S1	STAIR #1 AT YARD LEVEL	WET	OHGR-1	0.15	3

ZONE #4, 5 & 6

HAZARD / OCCUPANCY CLASSIFICATION
OH-GP-1
DENSITY = 0.15 GPM/SQ. FT
SYSTEM = DRY

NOTE:
- ONLY UPRIGHT SPRINKLERS SHALL BE INSTALLED ON DRY PIPE.
- NOT MORE THAN 750 GAL. SYSTEM CAPACITY SHALL BE CONTROLLED BY ONE DRY PIPE VALVE.
- GRIDDED DRY PIPE SYSTEM SHALL NOT BE INSTALLED.
- DRY PIPE VALVES SHALL BE PROVIDED WITH A LISTED QUICK-OPENING DEVICE WHERE CAPACITY EXCEEDS 500 GAL.
- A SOFT DISC GLOBE OR ANGIE VALVE SHALL BE INSTALLED IN THE CONNECTION BETWEEN DRY PIPE SPRINKLER RISER AND QUICK-OPENING DEVICE.
- A CHECK VALVE SHALL BE INSTALLED BETWEEN THE QUICK-OPENING DEVICE AND THE INTERMEDIATE CHAMBER OF THE DRY PIPE VALVE.
- A LISTED ANTI-FLOODING DEVICE SHALL BE INSTALLED IN THE CONNECTION BETWEEN THE DRY PIPE SPRINKLER RISER AND THE QUICK-OPENING DEVICE.

FIRST FLOOR

ROOM NO.	AREA/LOCATION	SYSTEM	OCCUPANCY CLASSIFICATION	DENSITY GPM/SF	ZONE
S1	STAIR #1 AT DECK LEVEL/ FIRST FLOOR	WET	OHGR-1	0.15	8
S2	STAIR #2 AT DECK LEVEL/ FIRST FLOOR	WET	OHGR-1	0.15	8
200	VESTIBULE	WET	LH	0.10	8
201	LOBBY	WET	LH	0.10	8
202	I.T.	WET	OHGR-1	0.15	8
203	CORRIDOR	WET	LH	0.15	8
204	CORRIDOR	WET	LH	0.20	8
205	ADMIN./ COPY	WET	LH	0.10	8
206	TRANS. SUPERVISOR	WET	LH	0.10	8
207	ASST. TRANS. SUPERVISOR	WET	LH	0.10	8
208	WORK BLOCK COORDINATOR	WET	LH	0.10	8
209	TEAM ROOM	WET	LH	0.10	8
210	UNISEX TOILET ROOM	WET	LH	0.10	8
211	ELECTRICAL	WET	OHGR-1	0.15	8
212	MECHANICAL	WET	OHGR-1	0.15	8
213	EQUIPMENT	WET	OHGR-1	0.15	8
214	DISPATCH	WET	OHGR-1	0.10	8
215	CORRIDOR	WET	LH	0.10	8
216	CORRIDOR	WET	LH	0.10	8
217	TEAM ROOM	WET	LH	0.10	8
218	YARD MASTER	WET	LH	0.10	8
219	INCIDENT ROOM	WET	LH	0.10	8
220	SUPERVISOR	WET	LH	0.10	8
221	UNISEX TOILET ROOM	WET	LH	0.10	8
222	OFFICE	WET	LH	0.10	8
223	TECHNICIANS	WET	LH	0.10	8
224	CONTROL ROOM	WET	OHGR-1	0.15	8
225	CORRIDOR	WET	LH	0.10	8
226	EQUIPMENT	WET	OHGR-1	0.15	8
227	UNISEX TOILET ROOM	WET	LH	0.10	8
228	CORRIDOR	WET	LH	0.10	8
229	QUIET ROOM	WET	LH	0.10	8
230	VESTIBULE	WET	LH	0.10	8
231	CORRIDOR	WET	LH	0.10	8
232	WOMEN'S TOILET ROM	WET	LH	0.10	8
233	LOCKERS	WET	LH	0.10	8
234	MEN'S TOILET ROOM	WET	LH	0.10	8
235	OPERATOR BREAK ROOM/ KITCHENETTE	WET	LH	0.10	8
236	JANITOR CLOSET	WET	LH	0.10	8
237	BUILDING MAINTENANCE	WET	OHGR-1	0.15	8

SECOND FLOOR

ROOM NO.	AREA/LOCATION	SYSTEM	OCCUPANCY CLASSIFICATION	DENSITY GPM/SF	ZONE
S1	STAIR #1 AT SECOND FLOOR	WET	OHGR-1	0.15	9
S2	STAIR #2 AT SECOND FLOOR	WET	OHGR-1	0.15	9
300	ELEVATOR LOBBY	WET	OHGR-1	0.15	9
301	CORRIDOR	WET	LH	0.10	9
302	CORRIDOR	WET	LH	0.10	9
303	UNISEX TOILET ROOM	WET	LH	0.10	9
304	ADMIN./ COPY	WET	LH	0.10	9
305	LIGHT RAIL DEPUTY DIRECTOR	WET	LH	0.10	9
306	LIGHT RAIL DIRECTOR	WET	LH	0.10	9
307	INCIDENT ROOM	WET	OHGR-1	0.15	9
308	I.T.	WET	OHGR-1	0.15	9
309	CONFERENCE	WET	LH	0.10	9
310	CORRIDOR	WET	LH	0.10	9
311	ELECTRICAL	WET	OHGR-1	0.15	9
312	MECHANICAL	WET	OHGR-1	0.15	9
313	UNISEX TOILET ROOM	WET	LH	0.10	9
314	UNISEX TOILET ROOM	WET	LH	0.10	9
315	CORRIDOR	WET	LH	0.10	9
316	CORRIDOR	WET	LH	0.10	9
317	JANITOR CLOSET	WET	LH	0.10	9
318	STORAGE	WET	OHGR-1	0.15	9
319	CLASS ROOM	WET	LH	0.10	9
320	TRAINING OFFICE	WET	LH	0.10	9

PENTHOUSE

ROOM NO.	AREA/LOCATION	SYSTEM	OCCUPANCY CLASSIFICATION	DENSITY GPM/SF	ZONE
S1	STAIR #1 AT PENTHOUSE	WET	OHGR-1	0.15	9

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DESGN BK
DRAWN DP
CHECK LJ
APPR

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL
LYTTONSVILLE YARD FACILITY
DESIGN CRITERIA AND HAZARD CLASSIFICATION
DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220
DRAWING NO. FP-L02
SHEET NO. 163 OF 443

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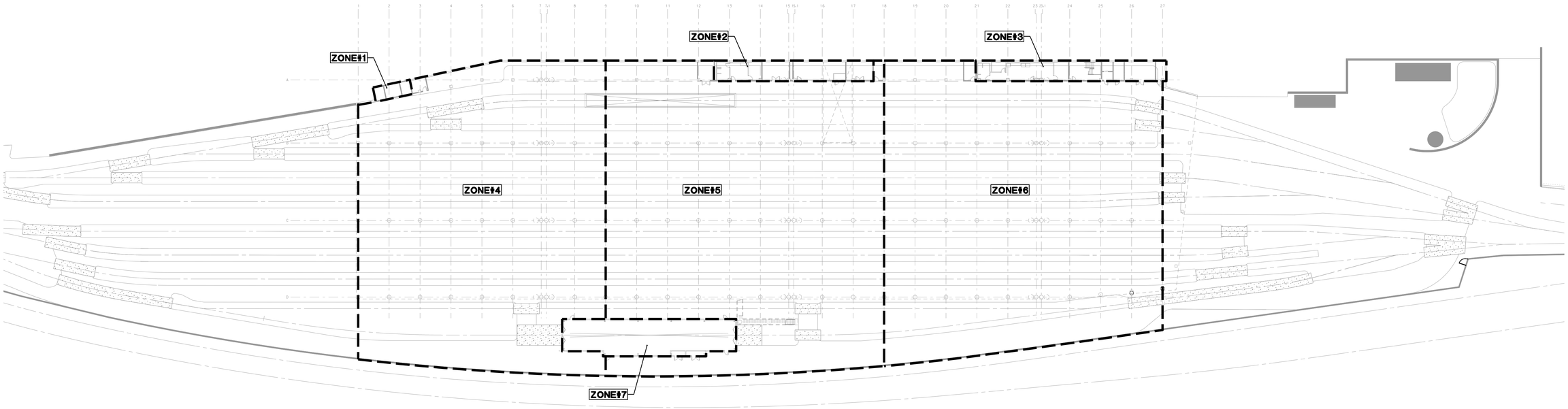
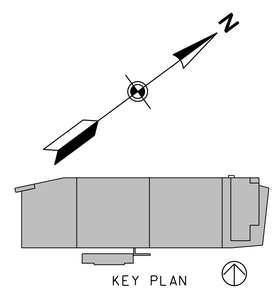
11/13/2013



ZONES LAYOUT PLAN

SCALE: 1" = 40'



30' 0 30' 60'

SCALE: 1"=30'

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DESGN	BK
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
ZONES LAYOUT PLAN

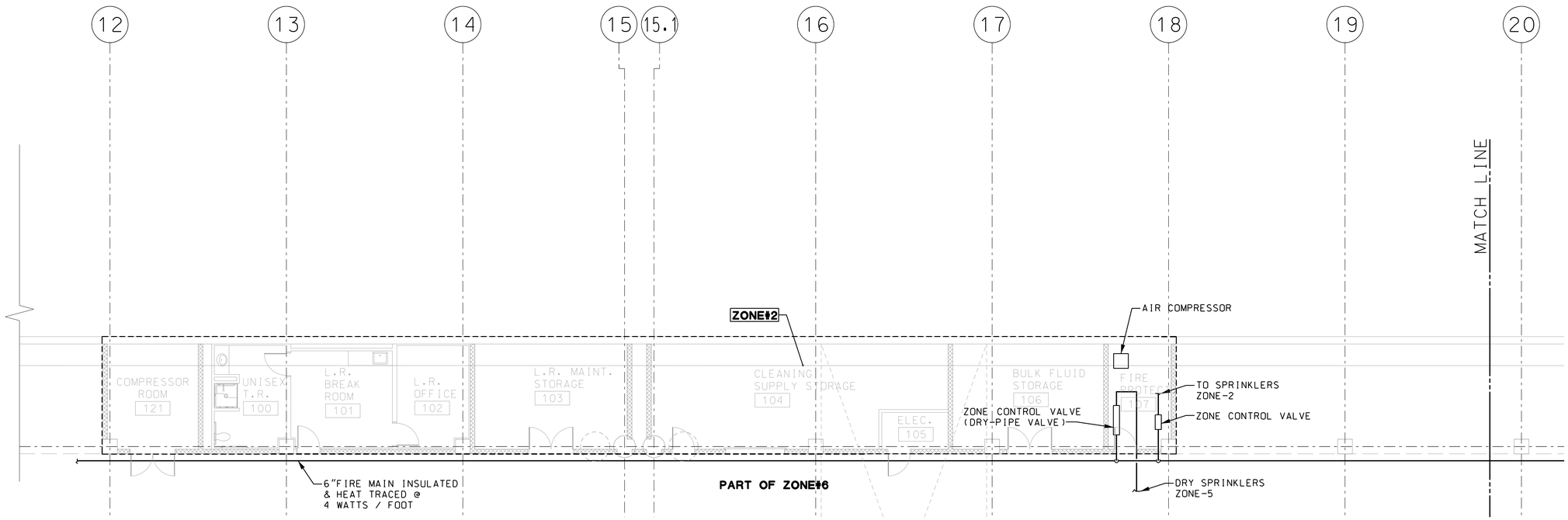
DATE: DECEMBER 2013 SCALE: 1" = 40'

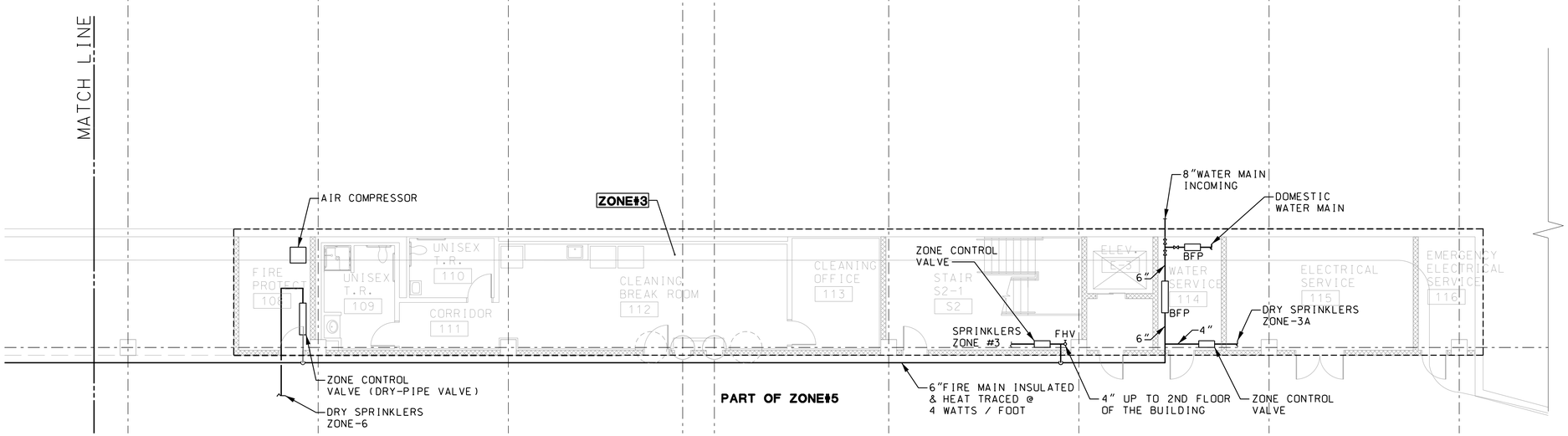
CONTRACT NO. T–1042–0220

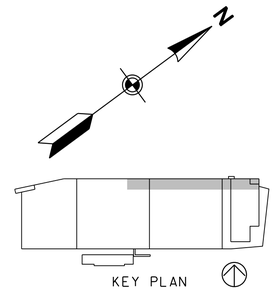
DRAWING NO. FP–L03

SHEET NO. 164 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Fire Protection\Sheet Files\1042prFPLA03.dgn
11/26/2013







YARD LEVEL PLAN - FIRE PROTECTION (SHEET 1 OF 2)

SCALE: 1" =1/8"

8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESIGN	BK
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL FIRE PROTECTION PLAN

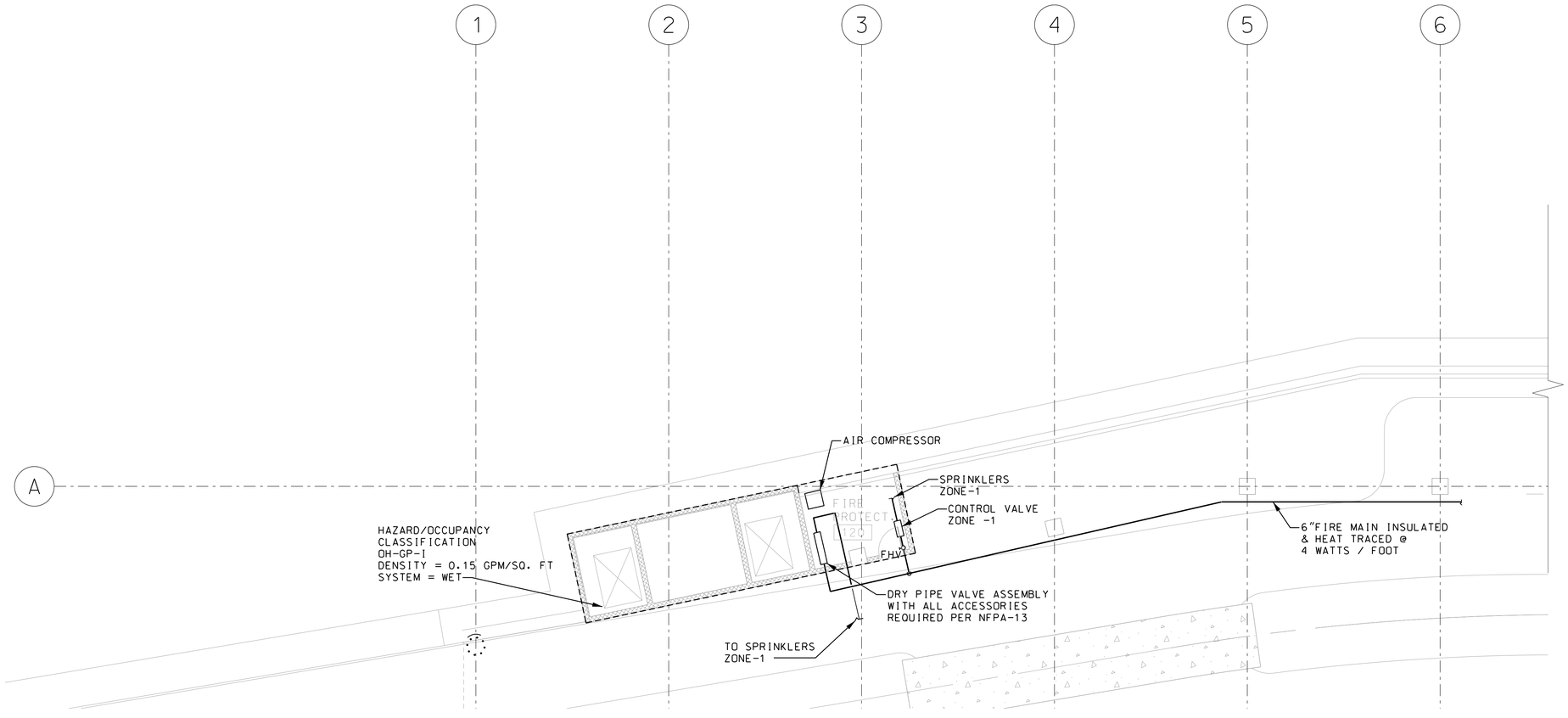
DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220

DRAWING NO. FP-L04

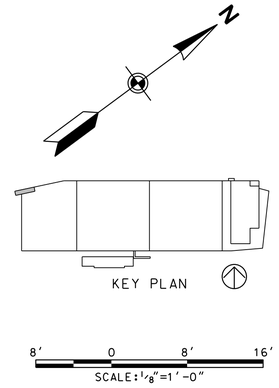
SHEET NO. 165 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Fire Protection\Sheet Files\1042pfPLA04.dgn
12/6/2013



YARD LEVEL PLAN - FIRE PROTECTION (SHEET 2 OF 2)

SCALE: 1/8" = 1'-0"



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESIGN	BK
DRAWN	DP
CHECK	LJ
APPR	

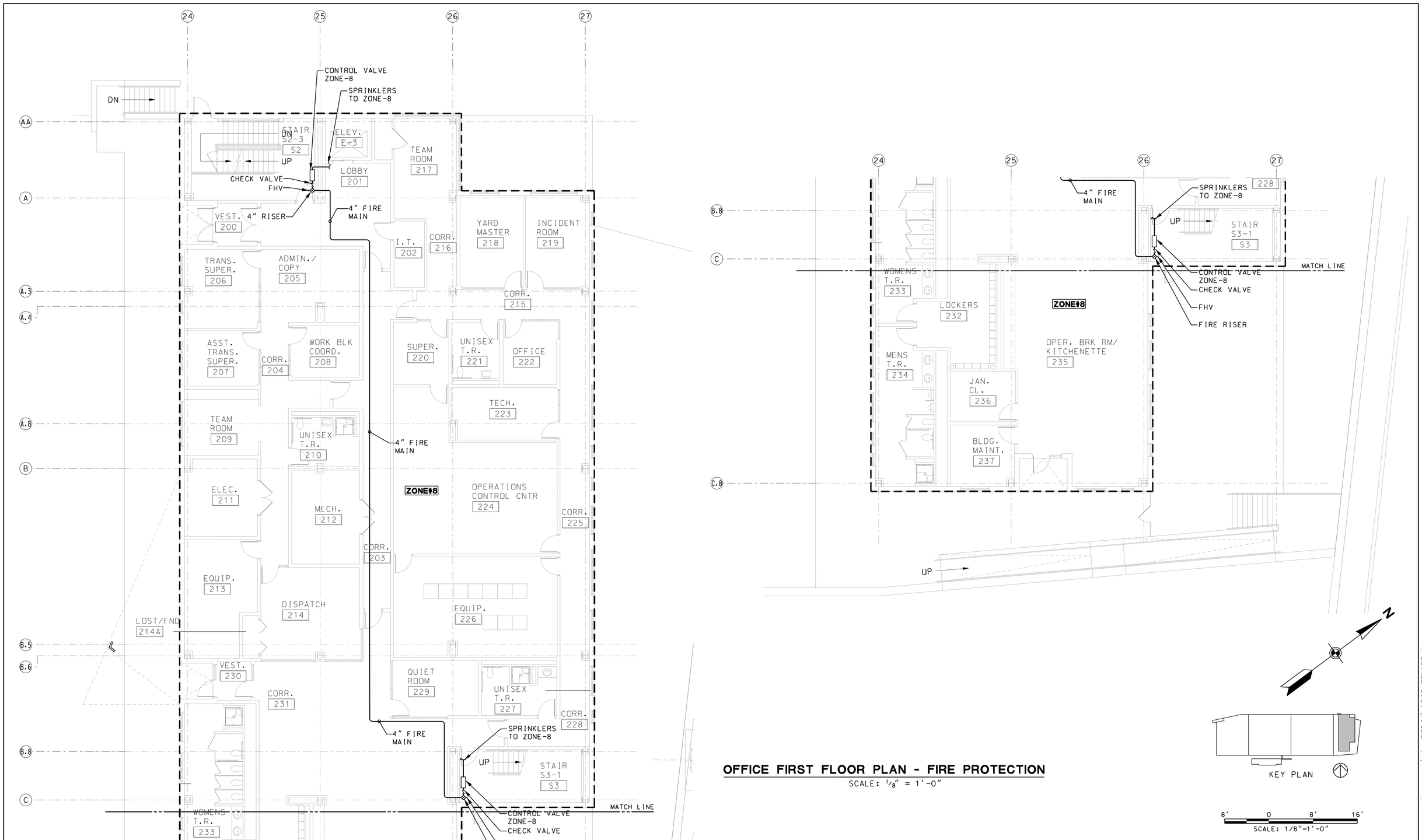
PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
YARD LEVEL FIRE PROTECTION PLAN

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. FP-L05
SHEET NO. 166 OF 443

pw:\\00 - Current Projects\1042 - Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A-Lyttonsville Yard and Shop\Fire Protection\Sheet Files\1042pfPLA05.dgn
11/26/2013



OFFICE FIRST FLOOR PLAN - FIRE PROTECTION

SCALE: 1/8" = 1'-0"

MARYLAND DEPARTMENT OF TRANSPORTATION

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DESGN	MB
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
OFFICE FIRST FLOOR PLAN – FIRE PROTECTION

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. FP-L06
SHEET NO. 167 OF 443

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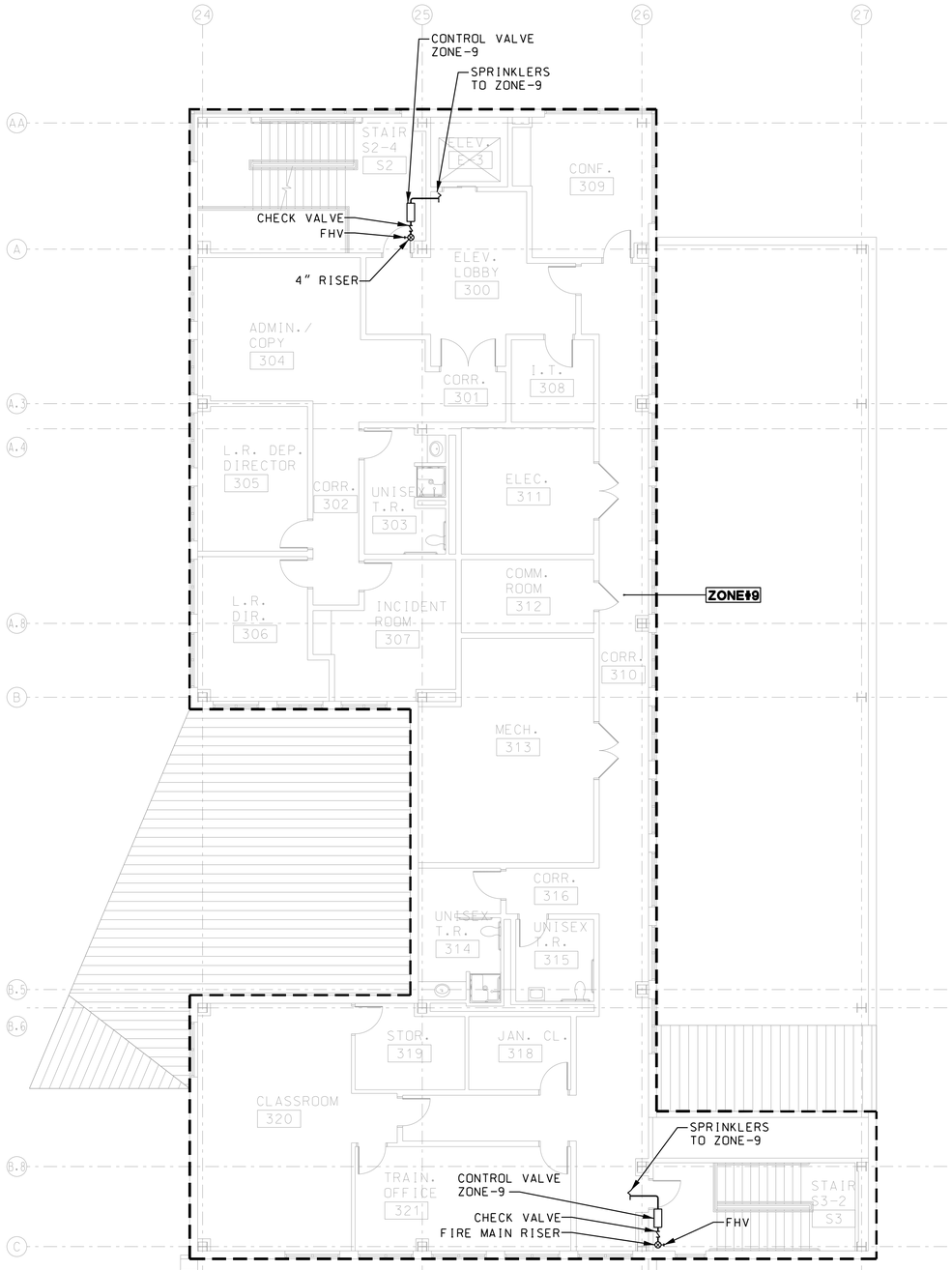
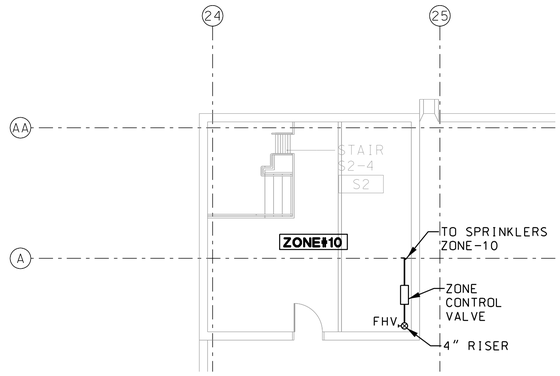
11/13/2013



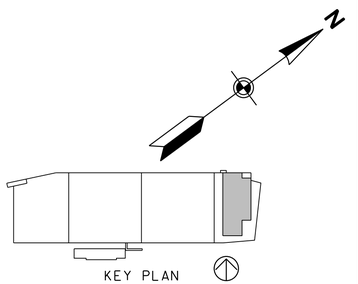
OFFICE SECOND FLOOR PLAN - FIRE PROTECTION

SCALE: 1/8" = 1'-0"



ROOF STAIR PLAN - FIRE PROTECTION

SCALE: 1/8" = 1'-0"



8' 0 8' 16'

SCALE: 1/8" = 1'-0"

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DESIGN	BK
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

OFFICE SECOND FLOOR PLAN–FIRE PROTECTION

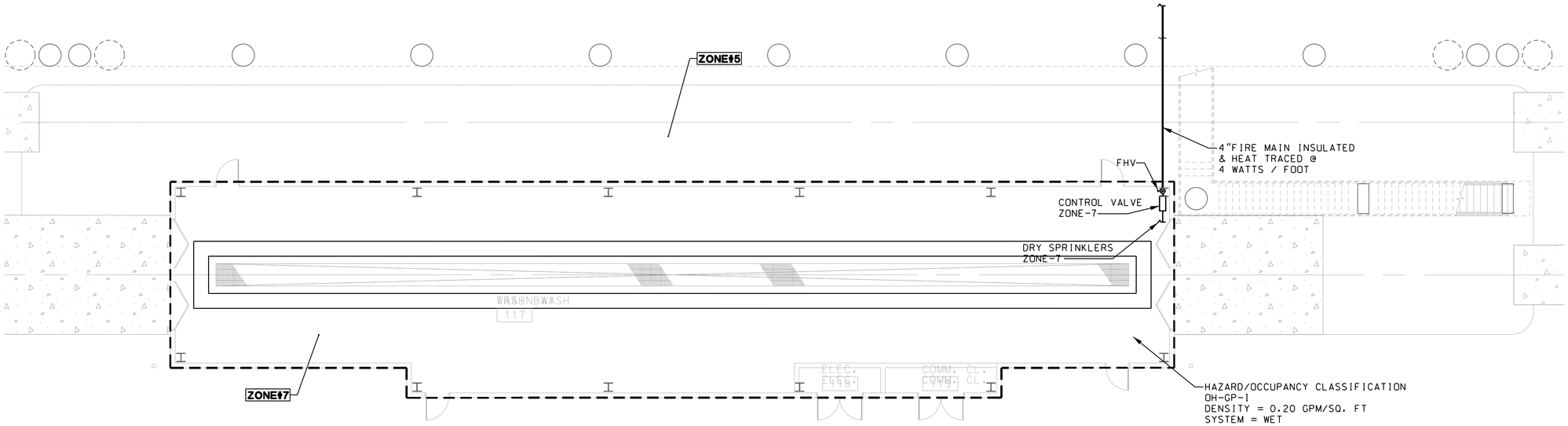
DATE: DECEMBER 2013 SCALE: 1/8" = 1'-0"

CONTRACT NO. T–1042–0220

DRAWING NO. FP–L07

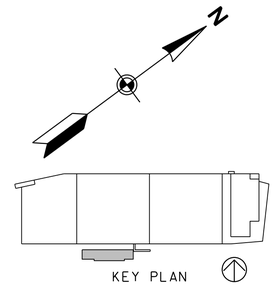
SHEET NO. 168 OF 443

pw:\\00 – Current Projects\1042 – Purple Line Light Rail\130 GEC CADD Files\Zone 10\Structures\A–Lyttonsville Yard and Shop\Fire Protection\Sheet Files\1042pfPLA07.dgn
11/19/2013



WASH BUILDING FLOOR PLAN

SCALE: 1/8"=1'-0"



8' 0 8' 16'

SCALE: 1/8"=1'-0"

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DESGN	BK
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING
PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY
WASH BUILDING PLAN – FIRE PROTECTION

DATE: DECEMBER 2013 SCALE: 1/8" =1'-0"

CONTRACT NO. T-1042-0220
DRAWING NO. FP-L08
SHEET NO. 169 OF 443

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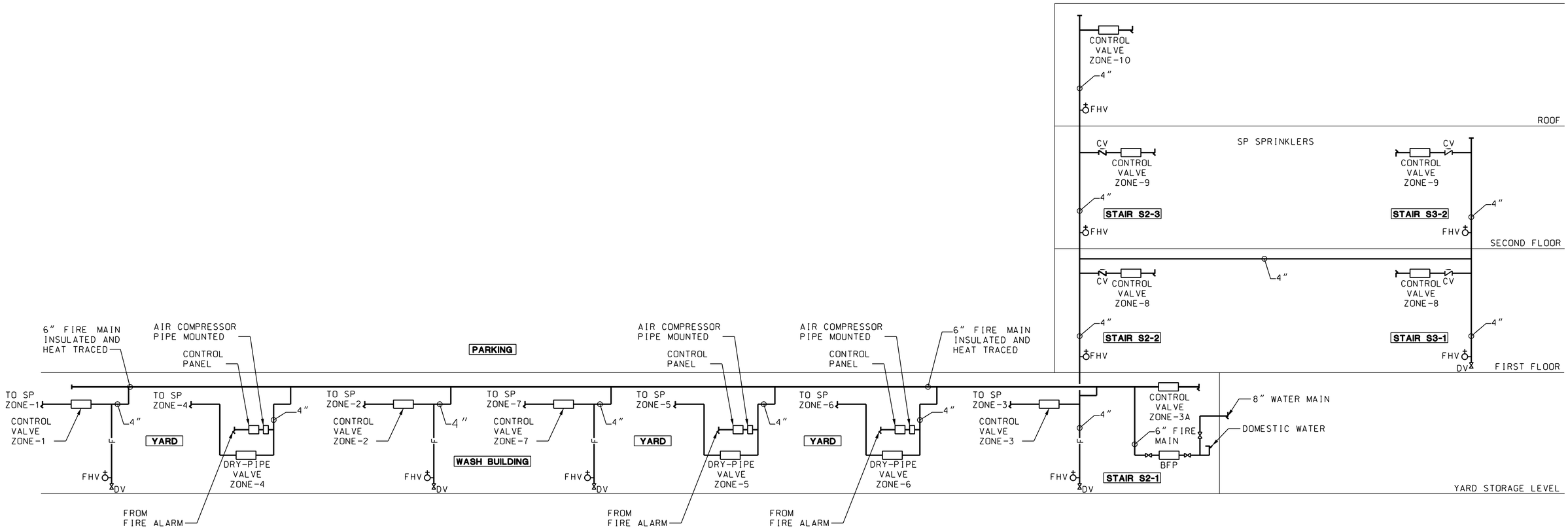
11/13/2013



FIRE PROTECTION RISER

SCALE: NTS

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DESIGN	BK
DRAWN	DP
CHECK	LJ
APPR	

PRELIMINARY ENGINEERING

PURPLE LINE LIGHT RAIL

LYTTONSVILLE YARD FACILITY

FIRE PROTECTION RISER

DATE: DECEMBER 2013 SCALE: NTS

CONTRACT NO. T-1042-0220

DRAWING NO. FP-L09

SHEET NO. 170 OF 443

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11/13/2013