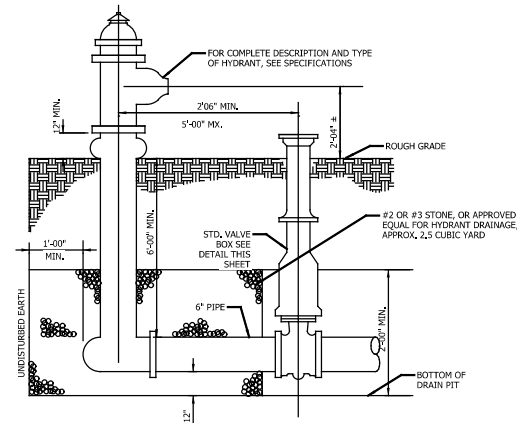




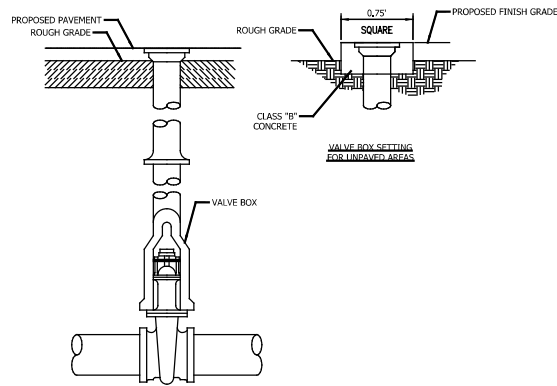
Appendix E. Engineering Drawings (Part 5 of 10)



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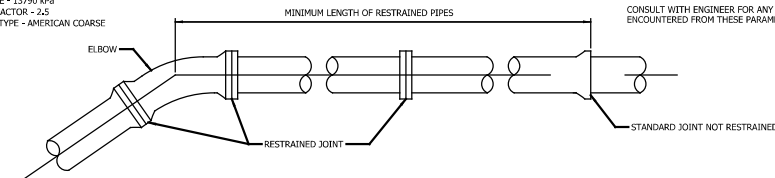


**STANDARD DETAIL FOR SETTING
HYDRANT & AUXILIARY VALVE**
Scale: NTS



STANDARD DETAIL FOR SETTING
Scale: NTS

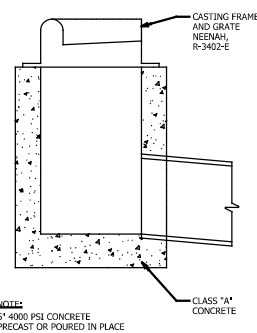
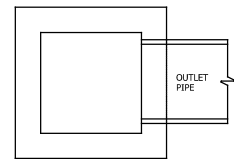
RESTRAINING ROD PARAMETERS
PRESSURE - 13790 kPa
SAFETY FACTOR - 2.5
THREAD TYPE - AMERICAN COARSE



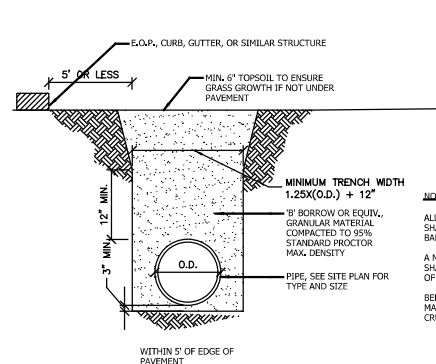
PIPE DIAMETER	DEGREE OF ELBOW															
	11 1/8°				22 1/2°				45°				90° OR DEAD END			
100mm	1.22	1.52	2.44	3.05	1.22	1.52	2.44	3.05	1.22	1.52	2.44	3.05	1.22	1.52	2.44	3.05
150mm	0.61	0.61	0.31	0.31	0.91	0.61	0.31	0.31	1.83	1.52	0.91	0.91	4.57	3.66	2.44	1.83
200mm	0.91	0.61	0.31	0.31	1.52	1.22	0.91	0.61	3.35	2.74	1.83	1.52	8.54	6.71	4.27	3.66
250mm	0.91	0.91	0.61	0.31	1.83	1.52	0.91	0.91	4.27	3.35	2.13	1.83	10.06	8.23	5.18	4.27
300mm	1.22	0.91	0.61	0.61	2.44	1.83	1.22	0.91	4.88	3.96	2.44	2.13	11.90	9.76	6.10	5.18
350mm	1.22	0.91	0.61	0.61	2.74	2.13	1.52	1.22	5.49	4.57	3.05	2.44	13.41	10.98	7.01	5.79
400mm	1.52	1.22	0.91	0.61	3.35	2.74	1.83	1.52	7.01	5.79	3.66	3.05	16.77	13.72	8.91	7.32

RESTRAINED PIPE SYSTEM PARAMETERS
PRESSURE - 13790 kPa
SOIL TYPE - LOW (ASTM STD. D2487)
BEDDING - NATIVE
TRENCH TYPE - 2
SAFETY FACTOR - 2
CONSULT WITH ENGINEER FOR ANY VARIATIONS
ENCOUNTERED FROM THESE PARAMETERS.

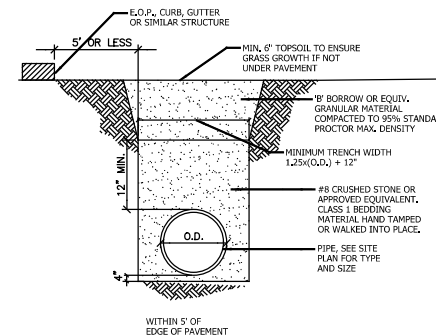
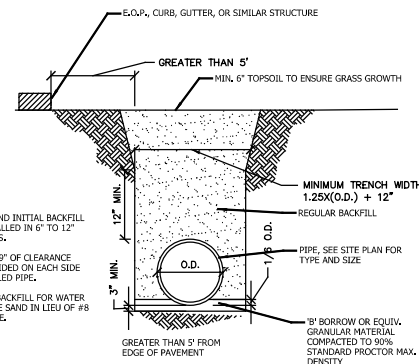
RESTRICTED PIPE DETAIL
Scale: NTS



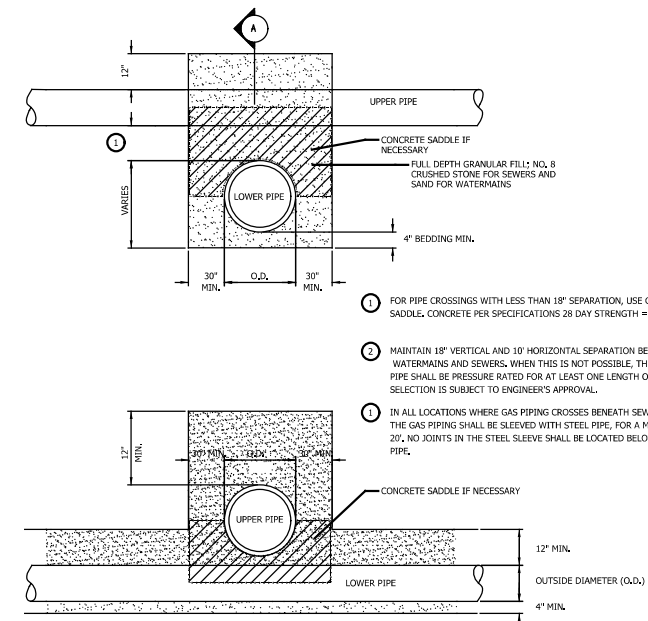
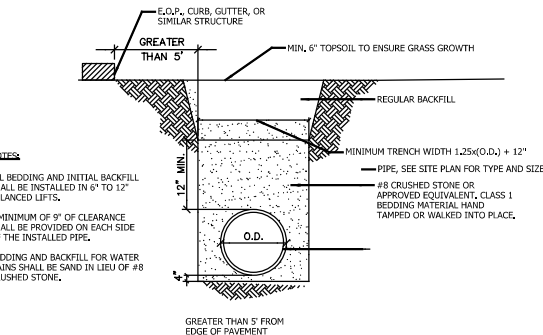
BOX INLET DETAIL
Scale: NTS



RIGID PIPE BEDDING SECTION
Scale: NTS



FLEXIBLE PIPE BEDDING SECTION
Scale: NTS



UTILITY CROSSING DETAIL
Scale: NTS

- 1. FOR PIPE CROSSINGS WITH LESS THAN 18" SEPARATION, USE CONCRETE SADDLE. CONCRETE PER SPECIFICATIONS 28 DAY STRENGTH = 4000 PSI
- 2. MAINTAIN 18" VERTICAL AND 10" HORIZONTAL SEPARATION BETWEEN WATERMAINS AND SEWERS. WHEN THIS IS NOT POSSIBLE, THE SEWER PIPE SHALL BE PRESSURE RATED FOR AT LEAST ONE LENGTH OF PIPE. SELECTION IS SUBJECT TO ENGINEER'S APPROVAL.
- 3. IN ALL LOCATIONS WHERE GAS PIPING CROSSES BENEATH SEWER PIPING, THE GAS PIPING SHALL BE SLEEVED WITH STEEL PIPE, FOR A MINIMUM OF 20'. NO JOINTS IN THE STEEL SLEEVE SHALL BE LOCATED BELOW THE SEWER PIPE.

NOTES:
1. THIS STANDARD APPLICABLE FOR 4" DIA. AND LARGER PIPE.

0201-0601-SD45

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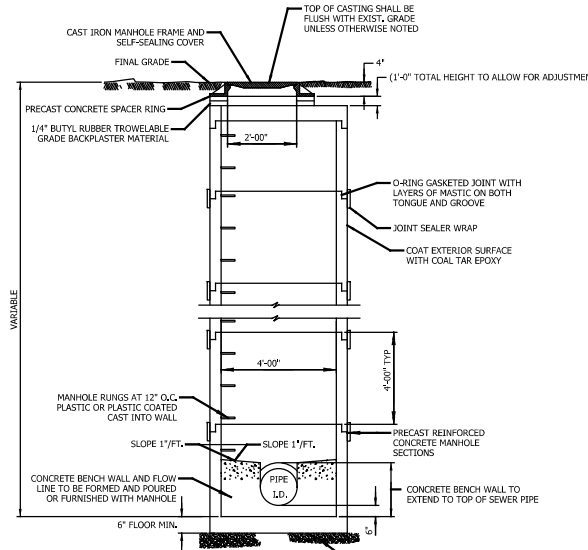
ISSUE	DATE	DESCRIPTION

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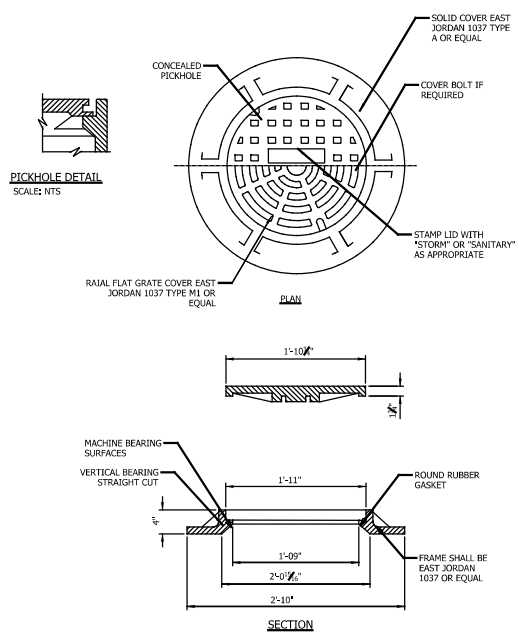
NOT FOR CONSTRUCTION SERIES C-5501
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK
SITE DETAILS FACILITY
FILENAME: SHT_WL_FA_SHS_DT_01.dgn SHEET: 245 OF 361
SCALE: AS NOTED



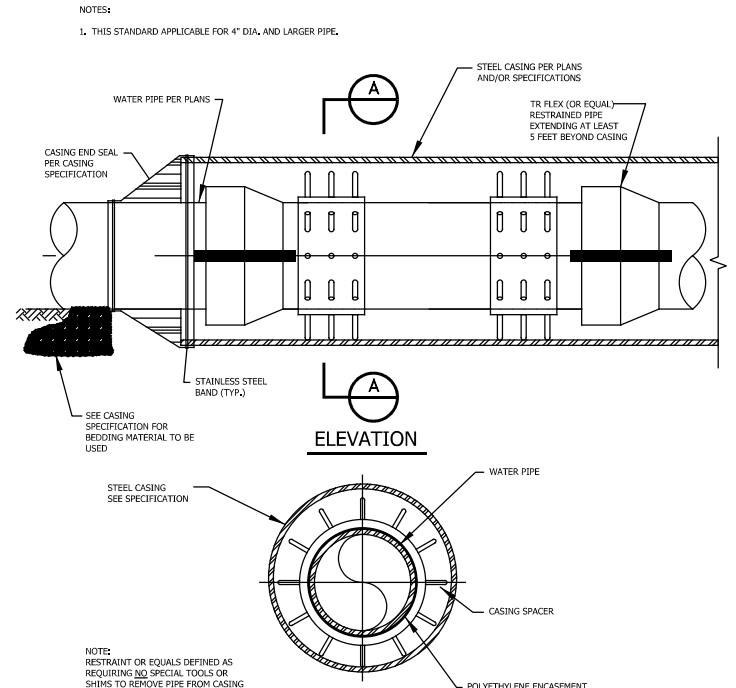
NOTES:
 WHEN AN ECCENTRIC CONE CANNOT BE USED DUE TO VERTICAL RESTRAINTS, A COVER CAP FOR PRECAST CONCRETE MANHOLE SECTION SHOULD BE USED AS SPECIFIED BY INDOT STANDARDS.

CASTING NOTES:
 SOLID LIDS E.J. 1037 TYPE A OR EQUAL
 OPEN GRATES E.J. 1037 TYPE M1 OR EQUAL

STANDARD MANHOLE
 Scale: N.T.S.



STANDARD MANHOLE FRAME AND COVER DETAILS
 Scale: N.T.S.



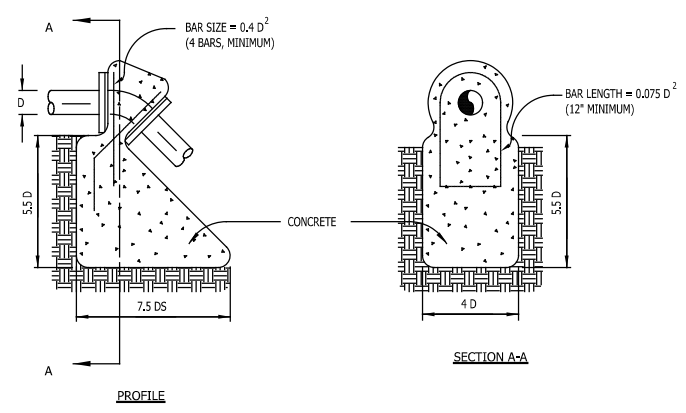
SECTION A-A
 NOTE: RESTRAINT OR EQUALS DEFINED AS REQUIRING NO SPECIAL TOOLS OR SHIMS TO REMOVE PIPE FROM CASING IN THE FUTURE.

CASING INSTALLATION DETAIL
 0201-0601-SD45

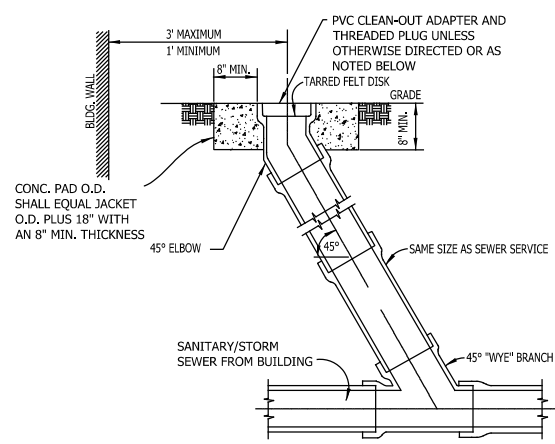
SOIL FACTOR TABLE		
SOIL TYPE	BRG. CAPACITY PSF	FACTOR (S)
MUCK	0	
SOFT CLAY	1,000	1.00
STIFF CLAY	3,000	.58
HARD CLAY	6,000	.41
LOOSE SAND	3,000	.58
MEDIUM COMPACT SAND	4,000	.50
VERY COMPACT SAND	6,000	.41
LOOSE GRAVEL, SAND MIX	6,000	.41
MEDIUM COMPACT MIX	9,000	.33
VERY COMPACT MIX	12,000	.29

- NOTES:**
- "D" INSIDE OF PIPE "S" (SEE "SOIL FACTOR TABLE")
 - TRENCH SIDES AND BOTTOMS ARE TO BE UNDISTURBED EARTH. NO FILL IS PERMITTED BEHIND THE THRUST BLOCK.
 - ALL CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 2500 PSI MINIMUM.
 - WITH RESPECT TO THE REINFORCING BARS SHOWN ON THE BELOW PLANS AND SECTIONS, THEIR NORMAL SIZE IS EQUAL TO THE PRODUCT OF THE INSIDE DIAMETER OF THE PIPE TIMES THE MULTIPLIER SHOWN. (DECIMALS ARE TO BE ROUNDED TO THE NEXT WHOLE NUMBER).
 - CONTRACTOR SHALL INSTALL A PLASTIC WRAP AROUND THE FITTING TO PREVENT THE CONCRETE FROM COMING IN CONTACT WITH THE JOINT BOLTS AND NUTS.

$S = \sqrt{\frac{1,000}{PSF}}$ BASED ON SOFT CLAY, WHERE S = 1, AND BEARING PRESSURE = 1,000 PSF.

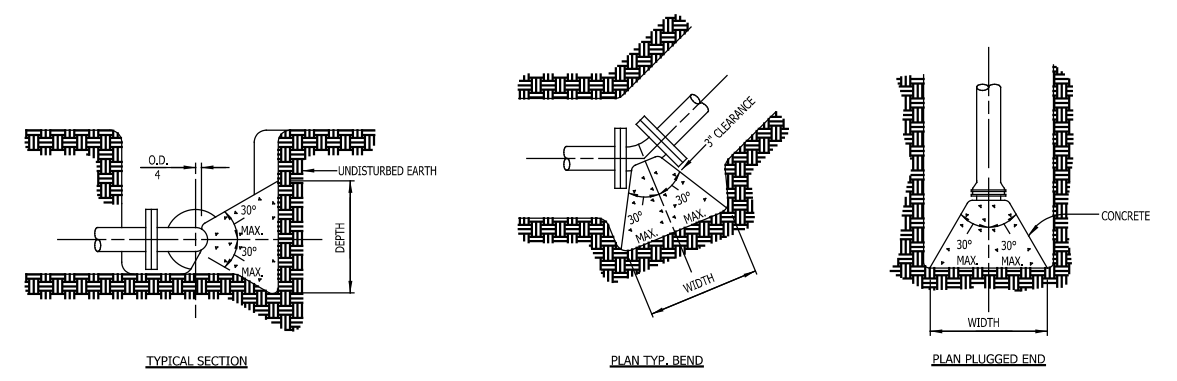


DETAIL OF VERTICAL THRUST BLOCKING
 SCALE: N.T.S.



- NOTES:**
- LOCATE CLEAN-OUT SUCH THAT PLUG IS NOT LOCATED IN SIDEWALK UNLESS DIRECTED OTHERWISE.
 - IN NON-TRAFFIC AREAS, TOP OF CLEAN-OUT SHALL REQUIRE AN ADAPTER AND A THREADED PLUG.
 - IN CONCRETE OR ASPHALT ROADWAYS OR SIDEWALKS, CLEANOUT AND PLUG TO BE LOCATED WITHIN A CASTING. CASTING FRAME AND LID TO BE NEENAH #R-1975 OR APPROVED EQUAL.
 - ALL SANITARY SEWERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES BY THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS. SANITARY SEWERS SHALL BE APPROVED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
 - THE CONTRACTOR OR DEVELOPER SHALL PROVIDE THE OWNER WITH "AS BUILT" DRAWINGS OF ALL SANITARY SEWER AND SERVICES.
 - ALL NEW SERVICE CONNECTIONS TO MAIN LINE SEWERS SHALL REQUIRE A PERMIT AND TAPPING FEES.

TYPICAL CLEANOUT DETAIL
 SCALE: N.T.S.



NOTE:
 BEARING AREAS ARE BASED ON 200 P.S.I. TEST PRESSURE AND A SOIL RESISTANCE OF 2000 P.S.F. IF WEAK (LESS THAN 2000 P.S.F. RESISTANCE) SOIL POCKETS ARE ENCOUNTERED THE CONTRACTOR SHALL INCREASE THE BEARING AREAS SHOWN OR OTHERWISE SECURE THE PIPE TO PREVENT MOVEMENT UNDER TEST PRESSURES. CONTRACTOR SHALL INSTALL A PLASTIC WRAP AROUND THE FITTING TO PREVENT THE CONCRETE FROM COMING IN CONTACT WITH THE JOINT BOLTS AND NUTS.

PIPE SIZE	MIN. BEARING AREA (SQ. FT.) = WIDTH X DEPTH				
	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	PLUG
1-1/2", 2", 3"	2	1	1	1	2
4"	3	2	1	1	2
6"	6	3	2	1	4
8"	10	6	3	2	7
10"	16	9	5	2	11
12"	22	12	7	3	16
14"	29	15	10	4	22
16"	45	21	13	6	28
18"	57	29	16	8	34

DETAIL OF HORIZONTAL THRUST BLOCKING
 SCALE: N.T.S.

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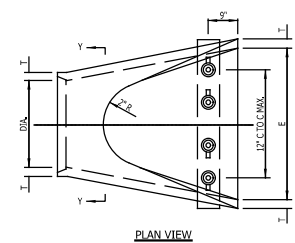
WEST LAKE CORRIDOR
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 DATE: 07/21/17

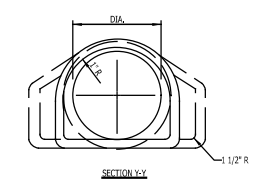
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 SINGLE TRACK

SITE DETAILS FACILITY

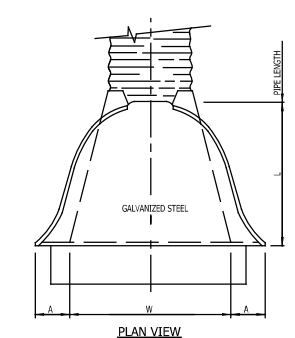
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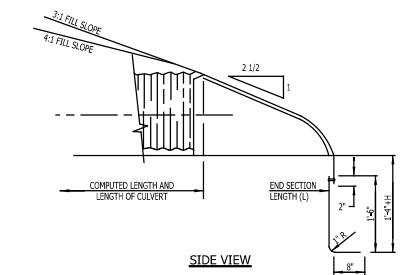
PLAN VIEW



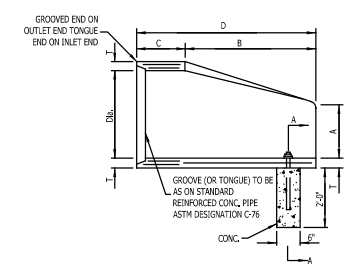
SECTION Y-Y



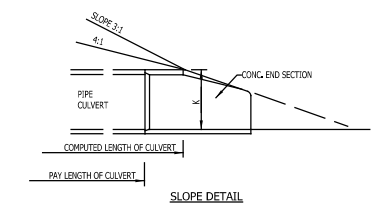
PLAN VIEW



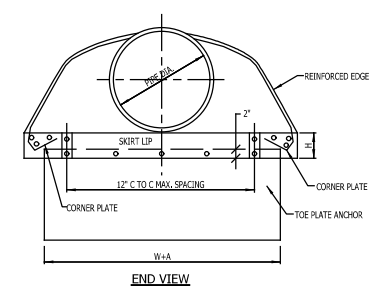
SIDE VIEW



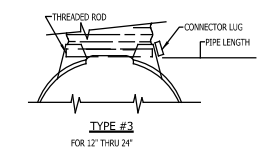
LONGITUDINAL SECTION



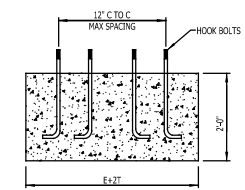
SLOPE DETAIL



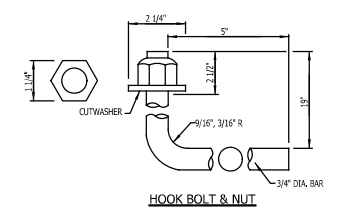
END VIEW



TYPE #3 FOR 12" THRU 24"



SECTION A-A



HOOK BOLT & NUT

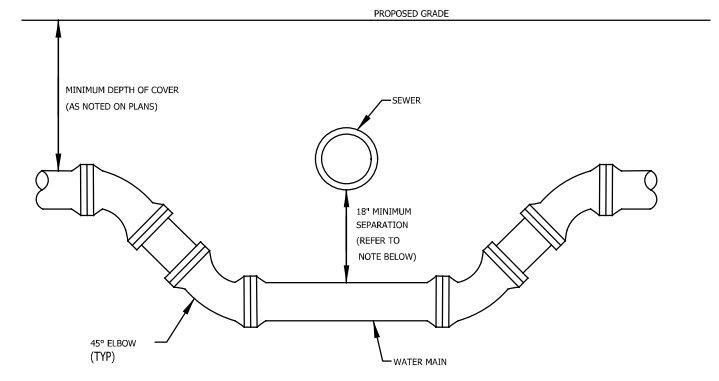
TABLE OF DIMENSIONS										
DIA.	T	A	C	D	E	K	R1	R2	APPROX. WEIGHT	PC.
(IN.)	(±1")	(±1")	(±1")	(±1")	(±1")	(±1")	(±1")	(±1")	(±1")	(±1")
12"	2"	5"	4-7"	6-3"	2-0"	1.3	10 1/8"	9"	800	1 PC.
15"	2 1/4"	7"	4-9"	6-3"	2-0"	1.5	12 1/2"	11"	1100	1 PC.
18"	2 1/2"	11"	4-1"	6-3"	3-0"	1.8	15 1/2"	12"	1300	1 PC.
21"	2 3/4"	11"	3-4"	6-3"	3-4"	2.1	16 1/8"	13"	1500	1 PC.
24"	3"	1-0"	2-4"	6-3"	4-0"	2.3	16 3/16"	14"	1800	1 PC.
27"	3 1/4"	1-1"	2-5"	6-3"	4-0"	2.6	18 9/16"	14 1/2"	2100	1 PC.
30"	3 1/2"	1-2"	1-10"	6-3"	5-0"	2.9	18 1/2"	15"	2400	1 PC.
33"	3 3/4"	1-3"	3-4"	6-3"	5-4"	3.1	23 3/4"	17 1/2"	4100	1 PC.
36"	4"	1-5"	3-1"	6-3"	6-0"	3.4	24 5/16"	20"	4200	1 PC.

CONCRETE END SECTION

PIPE DIA.	END SECTION THICK. (IN.)	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	W (±2")	APPROX. SLOPE	BODY
12"	.564	6"	6"	6"	21"	24"	2 1/2%±	1 PC.
15"	.564	7"	8"	6"	26"	30"	2 1/2%±	1 PC.
18"	.564	8"	10"	6"	31"	36"	2 1/2%±	1 PC.
21"	.564	9"	12"	6"	36"	42"	2 1/2%±	1 PC.
24"	.564	10"	13"	6"	41"	48"	2 1/2%±	1 PC.
30"	.579	12"	16"	8"	51"	60"	2 1/2%±	1 PC.
36"	.579	14"	19"	9"	60"	72"	2 1/2%±	2 PC.

METAL END SECTION

PIPE OUTLET DETAILS NOT TO SCALE



NOTE: A 6" MINIMUM SEPARATION IS REQUIRED BETWEEN ALL OTHER UTILITY PIPES AND THE WATER MAIN.

WATER MAIN CROSSING DETAIL PROFILE SCALES N.T.S.

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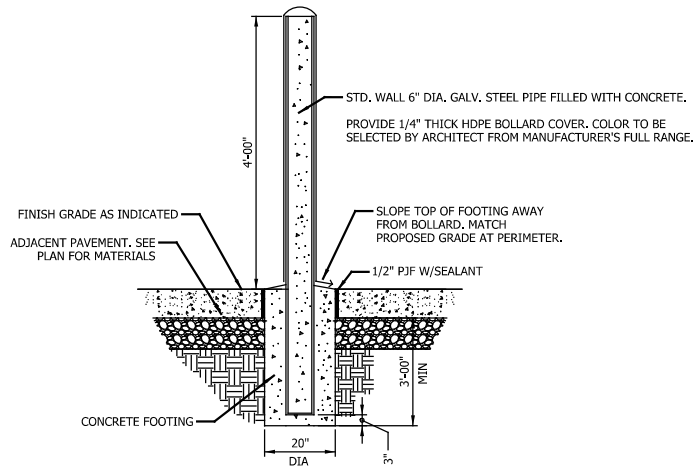
ISSUE	DATE	DESCRIPTION

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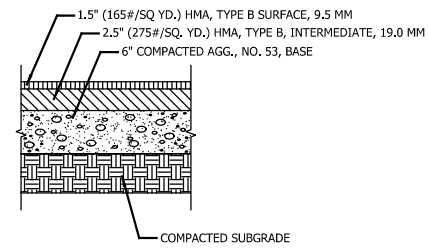
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NOT FOR CONSTRUCTION SERIES C-5503
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK
SITE DETAILS FACILITY
FILENAME: SHT_WL_FA_SHS_DT_03.dgn SHEET: 247 OF 361
SCALE: AS NOTED



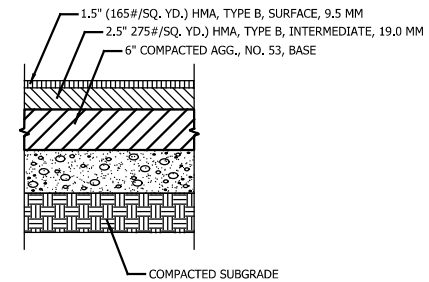
PIPE BOLLARD

Scale: NTS



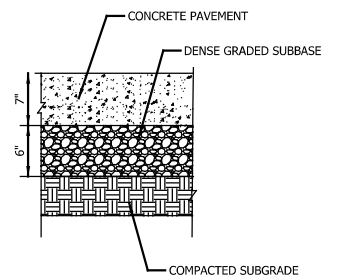
ASPHALT PAVEMENT TYPE 1 - SECTION

Scale: NTS



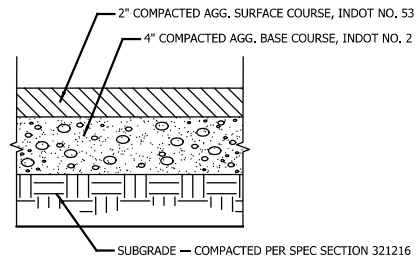
ASPHALT TYPE 2 - SECTION

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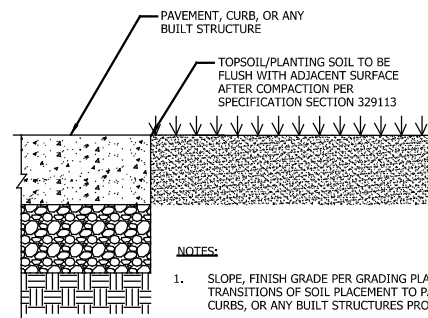
CONCRETE PAVEMENT - SECTION

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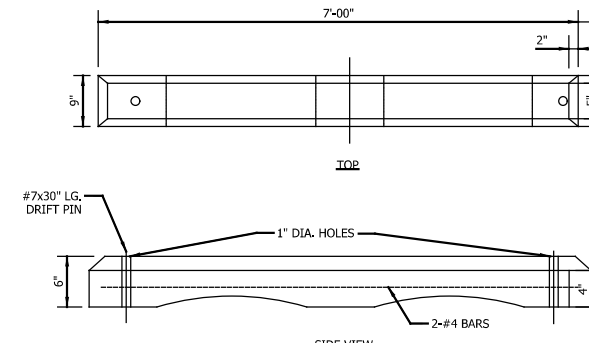
COMPACTED AGGREGATE SURFACE

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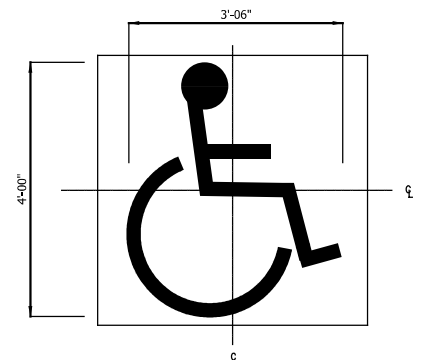
TOPSOIL PLACEMENT

Scale: NTS



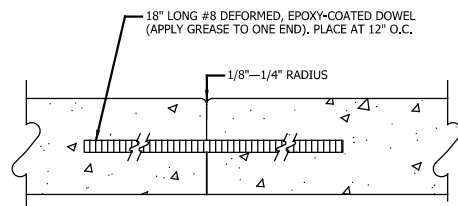
CONCRETE PARKING BLOCK

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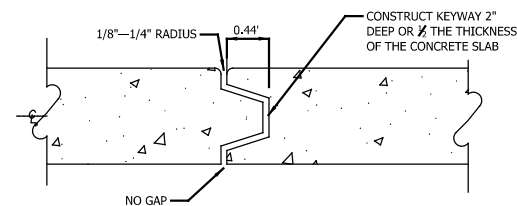
ACCESSIBLE PAVEMENT MARKING

Scale: NTS



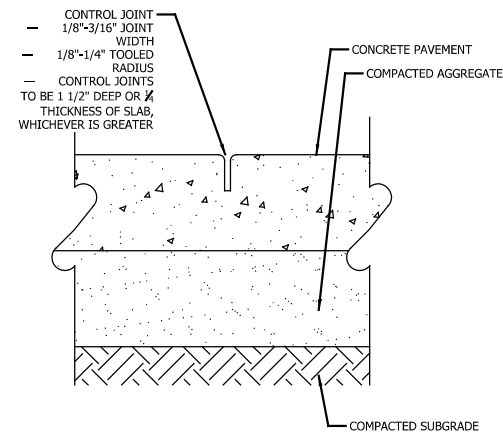
CONCRETE JOINTING DETAIL OPTION 1 - DOWEL

Scale: NTS



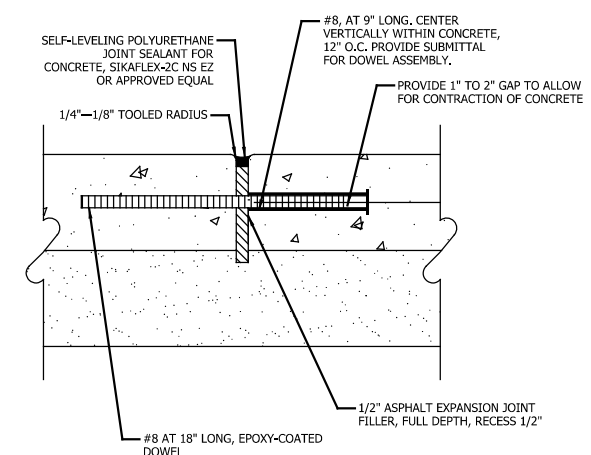
CONCRETE JOINTING DETAIL OPTION 2 - KEYWAY

Scale: NTS



CONCRETE CONTROL JOINTS

Scale: NTS



CONCRETE EXPANSION JOINTS

Scale: NTS

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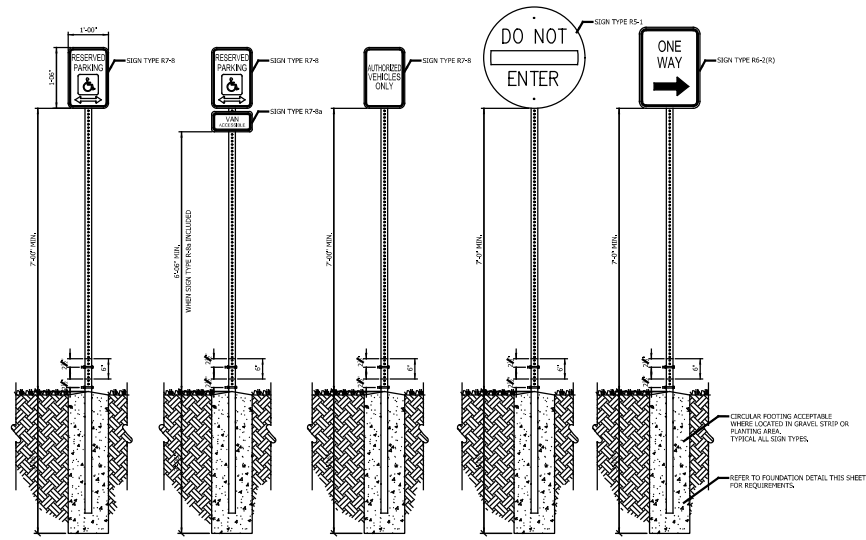
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Chesterton, Indiana 46304



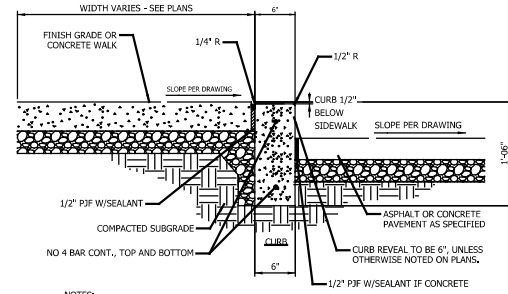
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NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
SITE DETAILS FACILITY		
FILENAME	SHT_WL_FA_SHS_DT_04.dgn	SHEET
SCALE	AS NOTED	248 OF 361

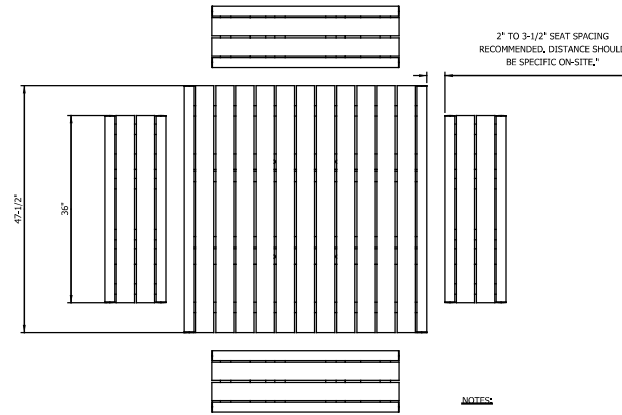


TYPICAL SINGLE POST CIRCULATION INSTALLATION
Scale: NTS



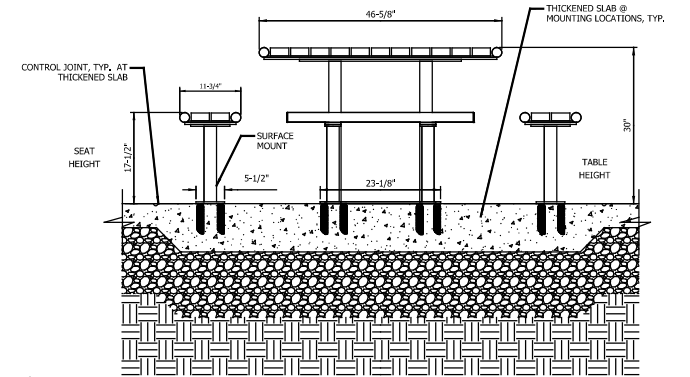
- NOTES:
1. REFER TO SPECIFICATION SECTIONS 3213.13, 3213.17 AND LAYOUT PLANS FOR CONSTRUCTION AND EXPANSION JOINTS.
 2. RUN BARS CONTINUOUS THROUGH EXPANSION JOINTS.
 3. CURB SECTION SHALL BE A MONOLITHIC POUR.

CONCRETE CURB
Scale: NTS

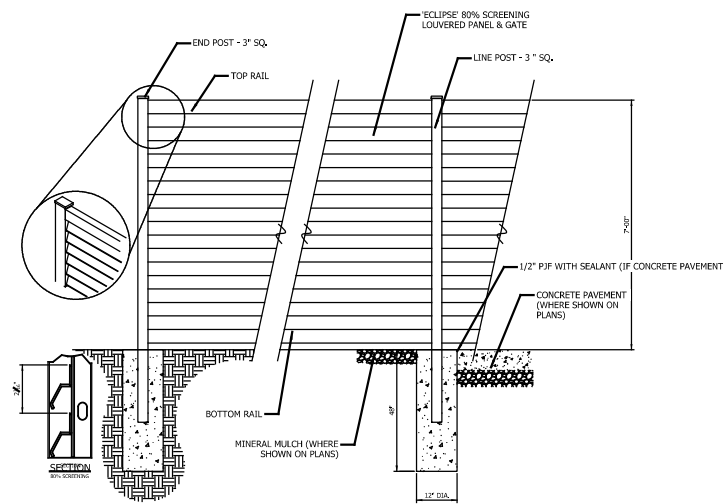


- NOTES:
1. STANDARD POWDERCOAT FINISH ALL FRAMING.
 2. PROVIDE STAINLESS STEEL HARDWARE FOR SURFACE MOUNTING.
 3. PROVIDE ONE ACCESSIBLE TABLE WITH THREE BENCHES ONLY.
 4. COLOR TO BE SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.
 5. REFER TO SPECIFICATION SECTION 129300 FOR ADDITIONAL REQUIREMENTS.

OUTDOOR TABLE ENSEMBLE PLAN VIEW
Scale: NTS

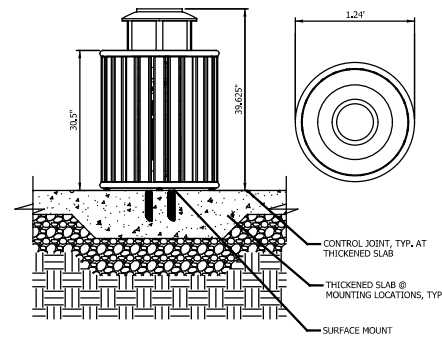


OUTDOOR TABLE ENSEMBLE SECTION
Scale: NTS



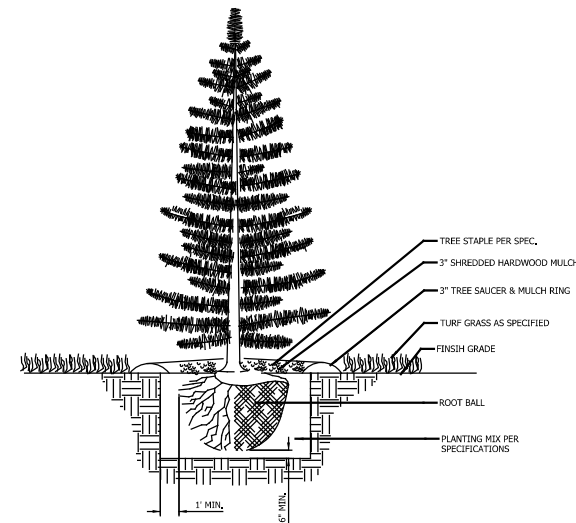
- NOTES:
1. MODEL TO BE ECLIPSE ALUMINUM FENCE AND GATE DESIGN SYSTEM WITH 80% SCREENING LOUVERS. MANUFACTURED BY: AMETCO MANUFACTURING CORPORATION, 4326 HAMANN PARKWAY, P.O. BOX 1210 WILLOUGHBY, OHIO 44096, TOLL FREE: 1-800-321-7042 PHONE: (440) 951-4300, FAX: (440) 951-2542 WWW.AMETCO.COM
 2. FINISH TO BE POWDERCOATED. COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
 3. PROVIDE SHOP DRAWINGS DETAILING PANEL AND POST LOCATIONS AND DIMENSIONS PRIOR TO FABRICATION.
 4. POSTS TO BE SET IN MIN. 12" DIA. CONCRETE FOOTING.

UTILITY ENCLOSURE AND GATE
Scale: NTS



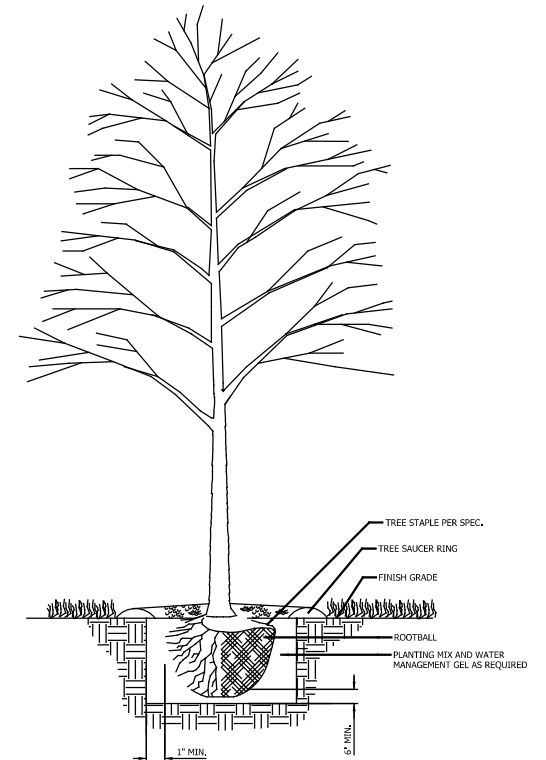
- NOTES:
1. STANDARD POWDERCOAT FINISH ALL FRAMING.
 2. PROVIDE STAINLESS STEEL HARDWARE FOR SURFACE MOUNTING.
 3. COLOR TO BE SELECTED BY OWNER/ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.
 4. REFER TO SPECIFICATION SECTION 129300 FOR ADDITIONAL REQUIREMENTS.

OUTDOOR WASTE RECEPTACLE
Scale: NTS



- NOTES:
1. SET PLANTS SO THAT TOP OF ROOT BALL IS APPROXIMATELY 2" ABOVE FINISH GRADE.
 2. PLANTS SHALL BE SOAKED IMMEDIATELY FOLLOWING PLANTING.
 3. ALL TREES IN LAWN SHALL HAVE TREE RING 5' MIN. DIAMETER WITH 3" SHREDDED HARDWOOD MULCH.

EVERGREEN PLANTING DETAIL
Scale: NTS



- NOTES:
1. SET PLANTS SO THAT TOP OF ROOT BALL IS APPROXIMATELY 2" ABOVE FINISH GRADE.
 2. PLANTS SHALL BE SOAKED IMMEDIATELY FOLLOWING PLANTING.
 3. ALL TREE SAUCERS SHALL BE MULCHED WITH 3" SHREDDED HARDWOOD BARK MULCH IN A 5' DIAMETER RING.
 4. WHEN PLANTING ON SLOPES, SET TREE SO THE ROOT FLARE ON THE UPHILL SIDE IS FLUSH WITH THE SURROUNDING SOIL ON THE SLOPE; APPLY ENOUGH SOIL TO COVER THE DOWNHILL SIDE OF THE ROOT BALL.

DECIDUOUS TREE PLANTING DETAIL
Scale: NTS

PLOT DATE: 7/19/2017 11:23:15 PM JKJELIMA



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DLZ Indiana, LLC
2211 E. Jefferson Boulevard
South Bend, IN 46615

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NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

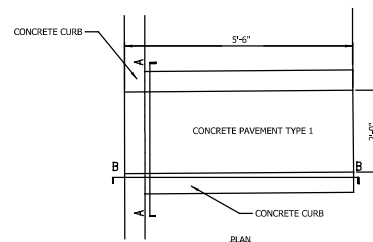
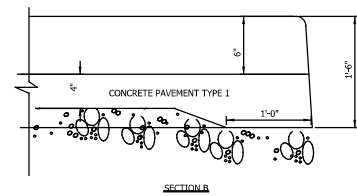
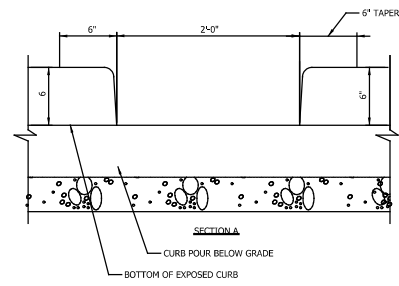
DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-5505

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

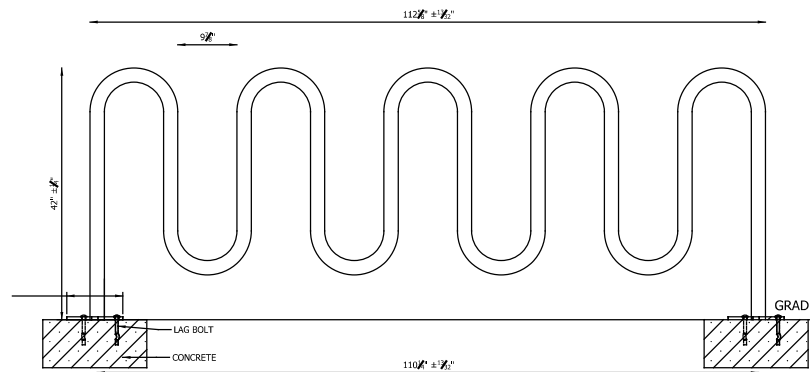
SITE DETAILS FACILITY

FILENAME	SHT_WL_FA_SHS_DT_05.dgn	SHEET	249 OF 361
SCALE	AS NOTED		



CONCRETE CURB TURN OUT

Scale: NTS

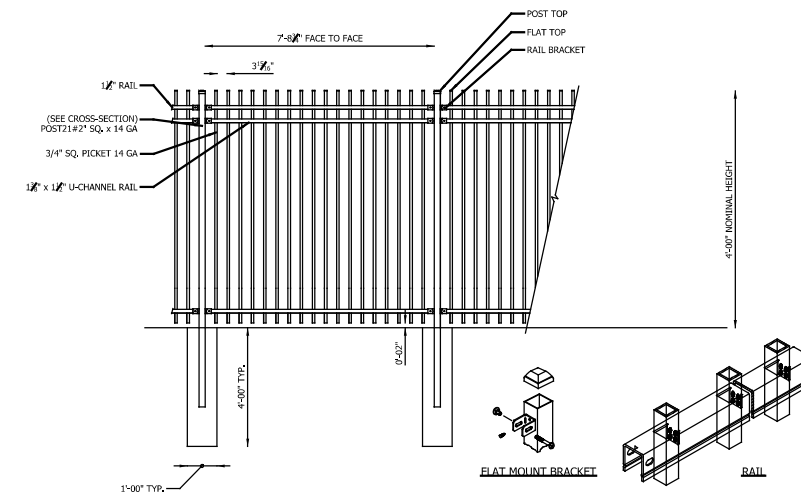


9 LOOP - 11 BIKE CAPACITY

ELEVATION VIEW

BICYCLE RACK

Scale: NTS

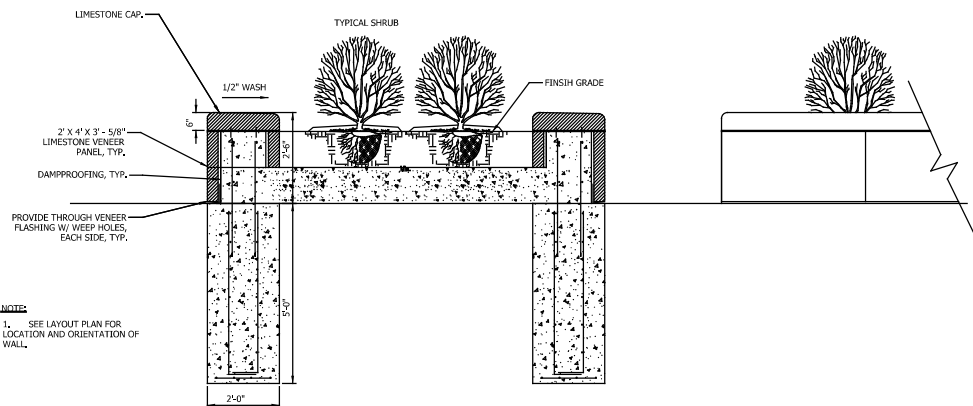


NOTES:

- COLOR TO BE BLACK.
- ALL HARDWARE TO BE STAINLESS STEEL OR MANUFACTURER'S CORROSION-RESISTANT-COATED OR NONCORRODIBLE HARDWARE.

STEEL PICKET FENCE

Scale: NTS



MASONRY SEATWALL

Scale: NTS

PLOT DATE: 7/19/2017 11:23:30 PM JKJELLMA



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ISSUE	DATE	DESCRIPTION



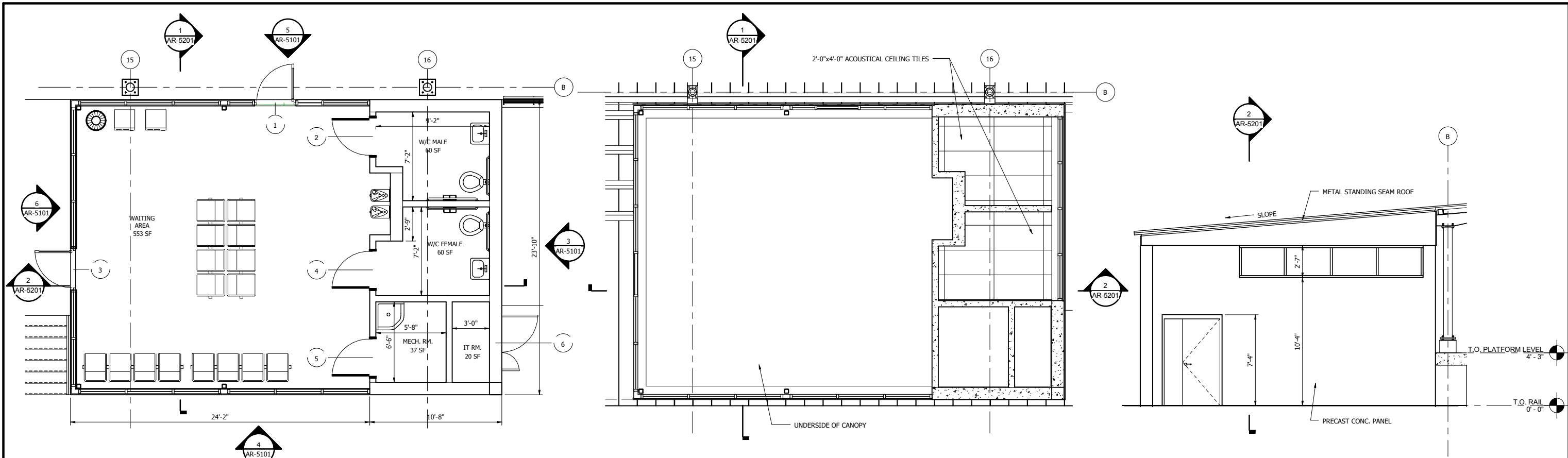
NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

DESIGNED:	
DRAWN:	
CHECKED:	
DATE:	07/21/17

NOT FOR CONSTRUCTION		SERIES C-5506
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
SITE DETAILS FACILITY		
FILENAME	SHT_WL_FA_SHS_DT_06.dgn	SHEET
SCALE	AS NOTED	250 OF 361



1 STATION BUILDING PLAN
1/4" = 1'-0"

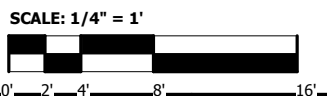
2 STATION BLDG REFLECTED CEILING PLAN
1/4" = 1'-0"

3 STATION BLDG NORTH ELEVATION
1/4" = 1'-0"

4 STATION BLDG EAST ELEVATION
1/4" = 1'-0"

5 STATION BLDG WEST ELEVATION
1/4" = 1'-0"

6 STATION BLDG SOUTH ELEVATION
1/4" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-5101

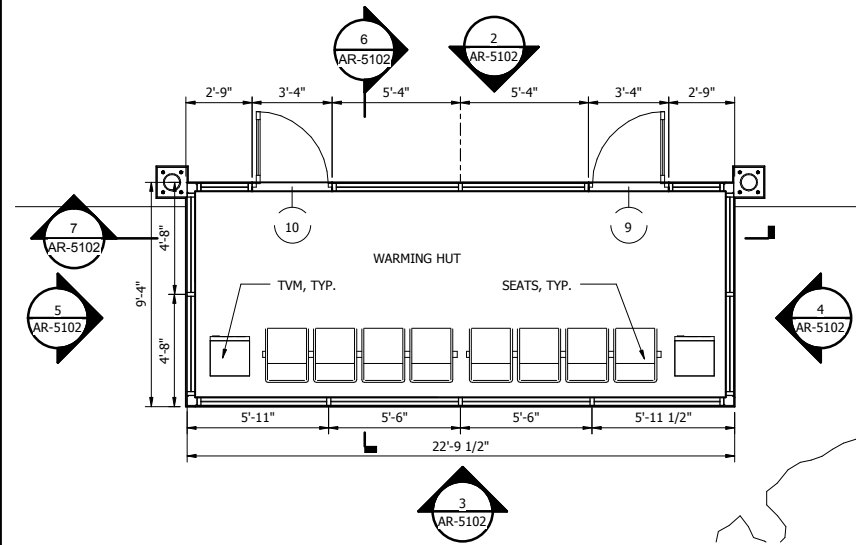


DESIGNED:	R. Krieger
DRAWN:	K. Gonzales
CHECKED:	U. Bamert
DATE:	07/21/17

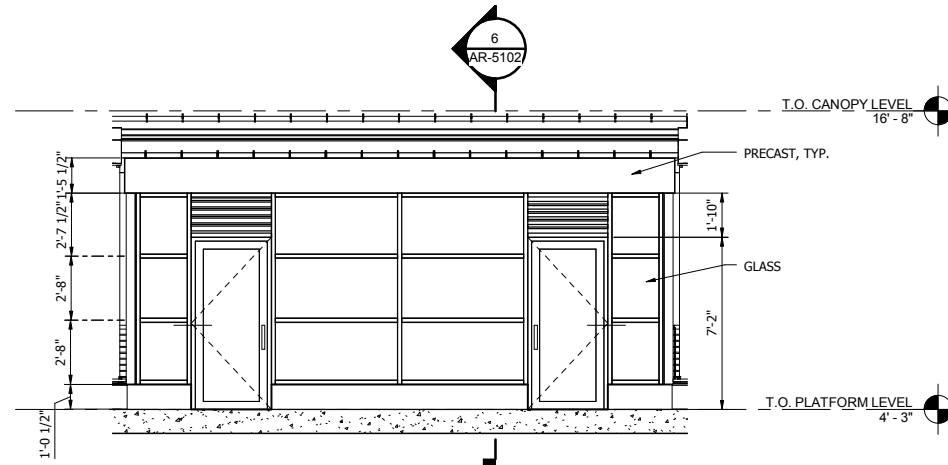
NICTD - WEST LAKE CORRIDOR - MP 65.6 PROJECT NAME	
TYPICAL STATION BUILDING PLANS AND ELEVATIONS	
FILENAME	SHEET
SCALE	251 OF 361
1/4" = 1'-0"	

PLOT DATE: 7/20/2017 12:44:21 PM

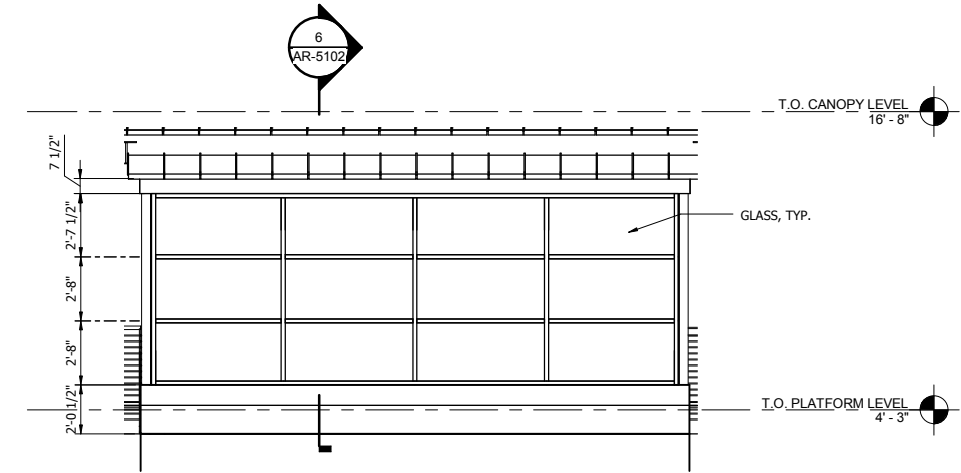
C:\v1\2016\WL_AR_SOHAMSTN_02_NEDUN.rvt



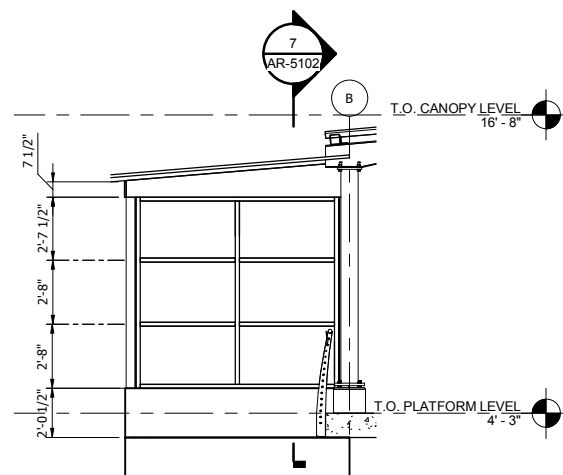
1 TYPICAL WARMING HUT PLAN
1/4" = 1'-0"



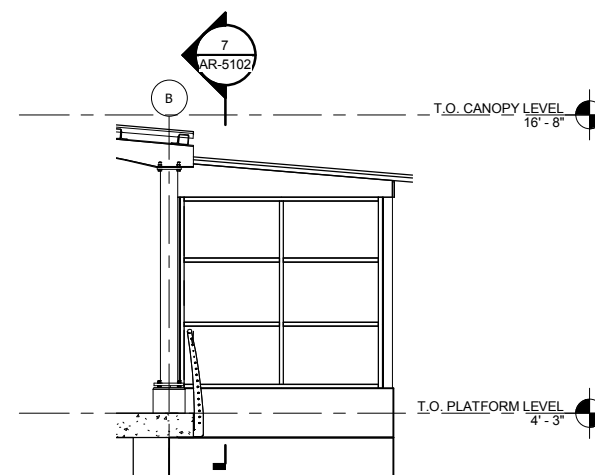
2 TYPICAL WARMING HUT WEST ELEVATION
1/4" = 1'-0"



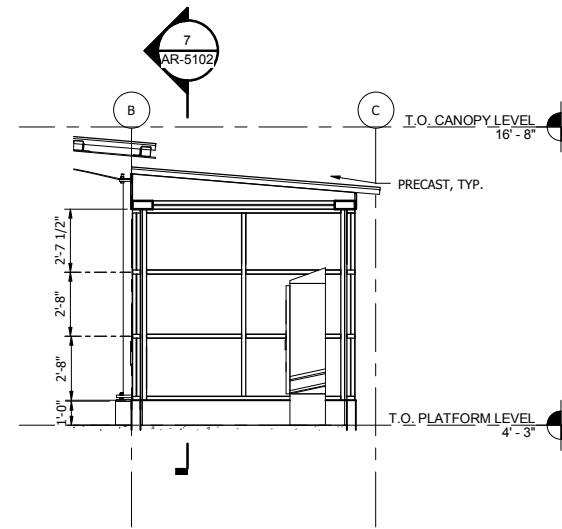
3 TYPICAL WARMING HUT EAST ELEVATION
1/4" = 1'-0"



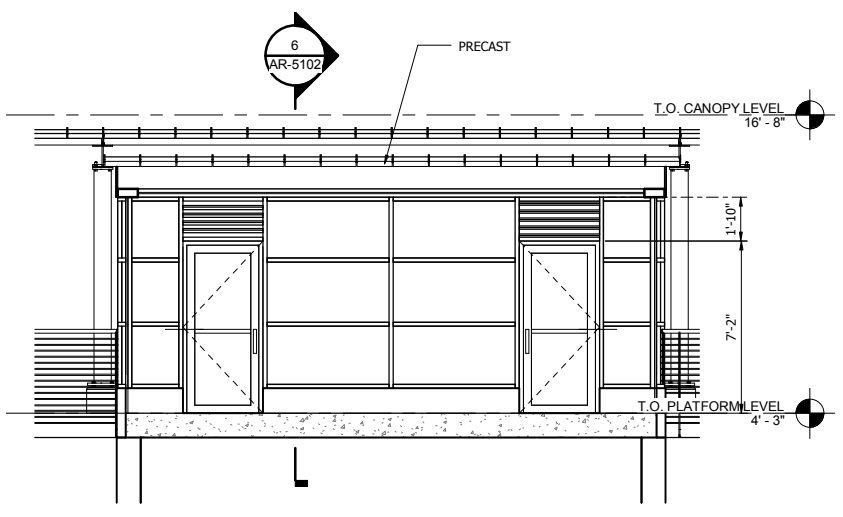
4 TYPICAL WARMING HUT NORTH ELEVATION
1/4" = 1'-0"



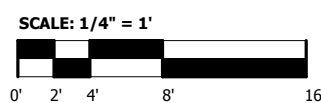
5 TYPICAL WARMING HUT SOUTH ELEVATION
1/4" = 1'-0"



6 TYPICAL WARMING HUT SECTION 1
1/4" = 1'-0"



7 TYPICAL WARMING HUT SECTION 2
1/4" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-5102



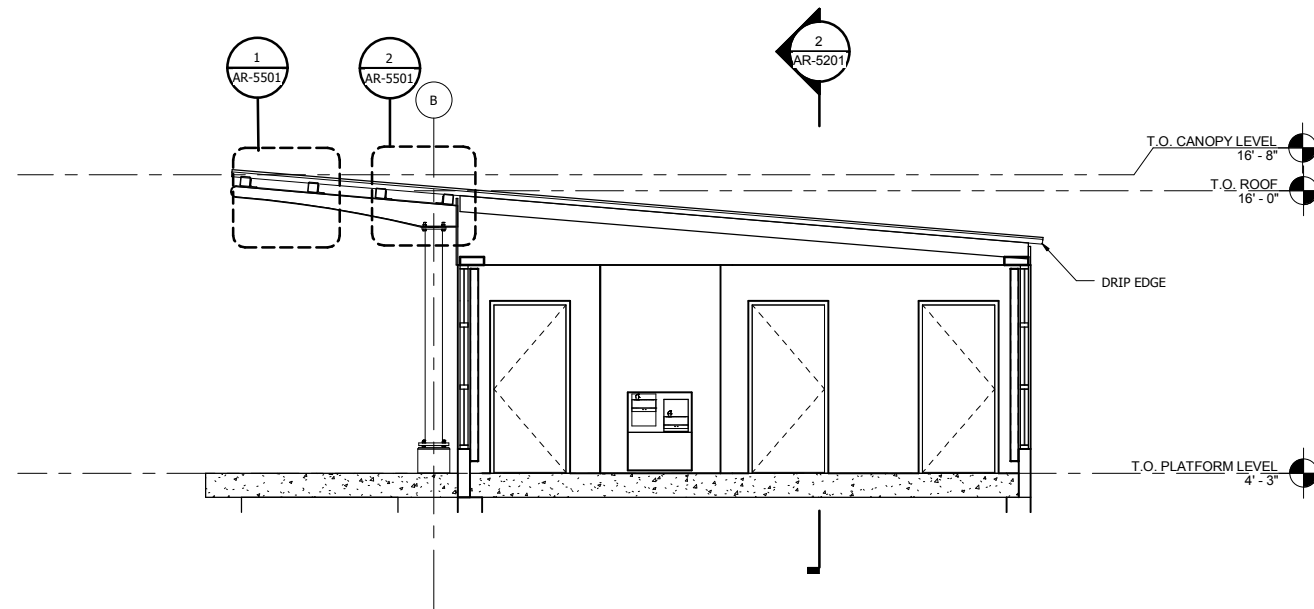
DYER TO HAMMOND, INDIANA

DESIGNED:	R. Krieger
DRAWN:	K. Gonzales
CHECKED:	U. Bamert
DATE:	07/21/17

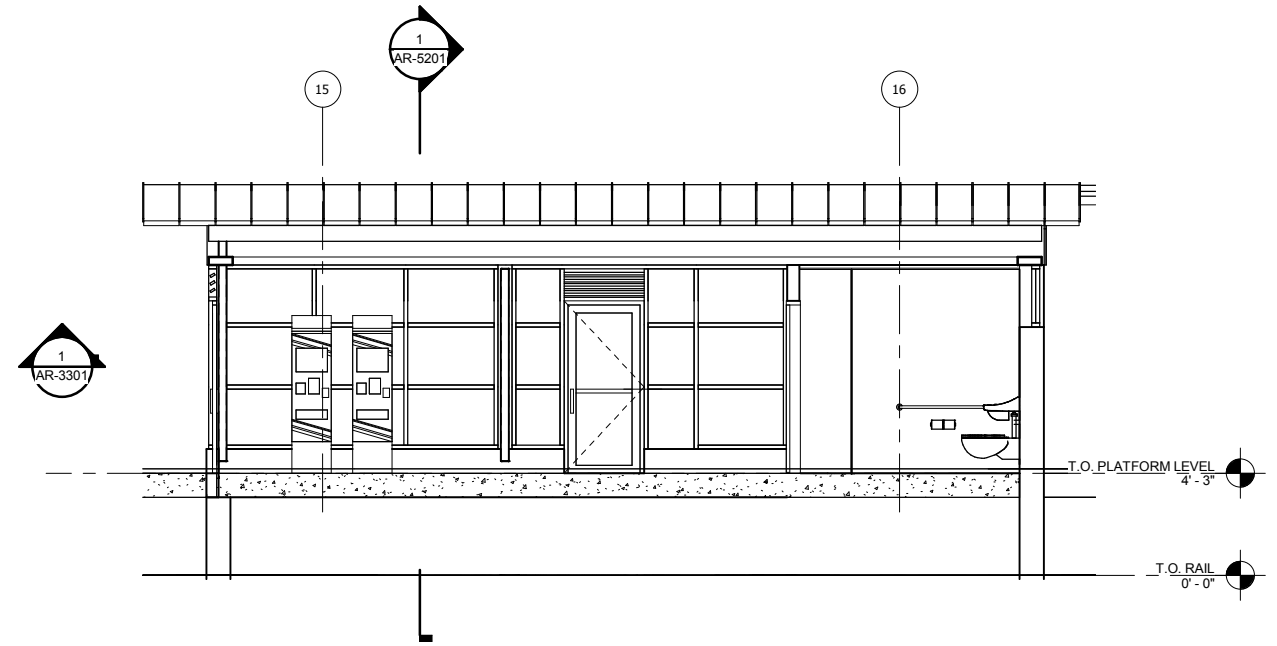
NICTD - WEST LAKE CORRIDOR - MP 65.6 PROJECT NAME	
TYPICAL WARMING HUT PLAN, ELEVATIONS AND SECTIONS	
FILENAME	SHEET
SCALE	252 OF 361
1/4" = 1'-0"	

PLOT DATE: 7/20/2017 12:44:23 PM

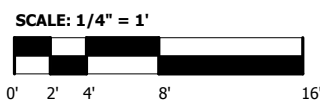
C:\v1\2016\WL_AR_SOHAMSTN_02_NEDUN.rvt



1 STATION BDLG SECTION 1
1/4" = 1'-0"



2 STATION BDLG SECTION 2
1/4" = 1'-0"



PLOT DATE: 7/20/2017 12:44:23 PM



ISSUE	DATE	DESCRIPTION



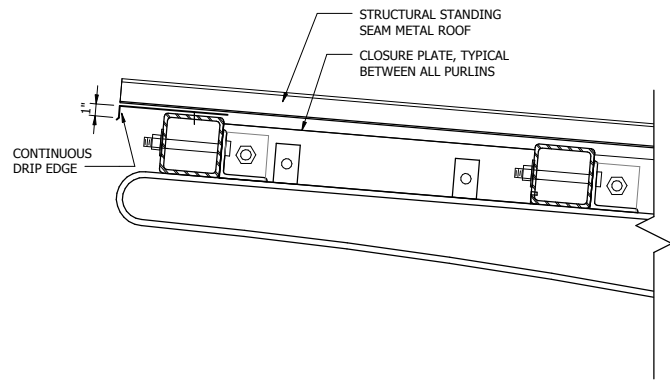
DYER TO HAMMOND, INDIANA

DESIGNED: R. Krieger
DRAWN: K. Gonzales
CHECKED: U. Bamert
DATE: 07/21/17

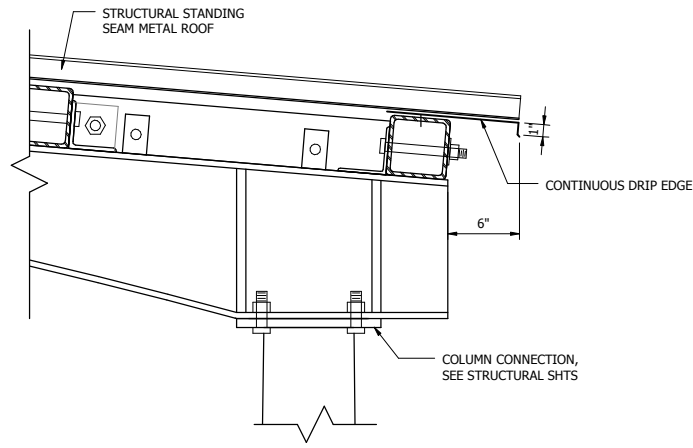
NOT FOR CONSTRUCTION SERIES AR-5201

NICTD - WEST LAKE CORRIDOR - MP 65.6
PROJECT NAME
TYPICAL STATION BUILDING SECTIONS

FILENAME	SHEET
SCALE 1/4" = 1'-0"	253 OF 361



1 CANOPY DETAIL 1
1 1/2" = 1'-0"



2 CANOPY DETAIL 2
1 1/2" = 1'-0"

PLOT DATE: 7/20/2017 12:44:24 PM



ISSUE	DATE	DESCRIPTION



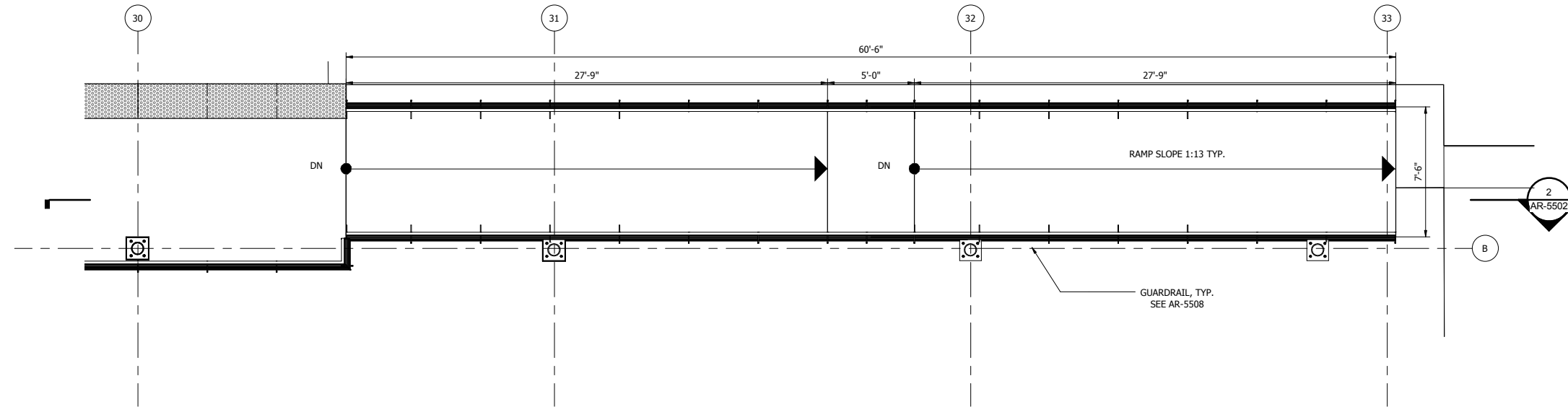
DYER TO HAMMOND, INDIANA

DESIGNED: R. Krieger
DRAWN: K. Gonzales
CHECKED: U. Bamert
DATE: 07/21/17

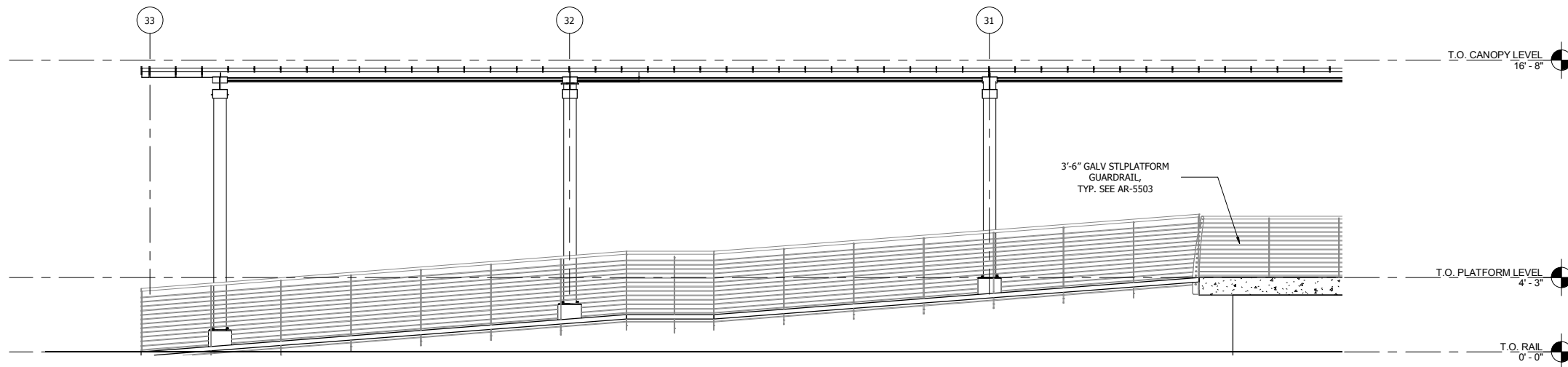
NOT FOR CONSTRUCTION SERIES AR-5501

NICTD - WEST LAKE CORRIDOR - MP 65.6
PROJECT NAME
TYPICAL CANOPY DETAILS

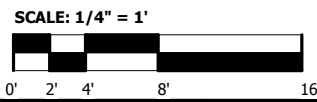
FILENAME	SHEET
SCALE	254 OF 361
1 1/2" = 1'-0"	



1 TYPICAL STAIR AND RAMP PLAN
1/4" = 1'-0"



2 STAIR SECTION 1
1/4" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-5502



ISSUE	DATE	DESCRIPTION

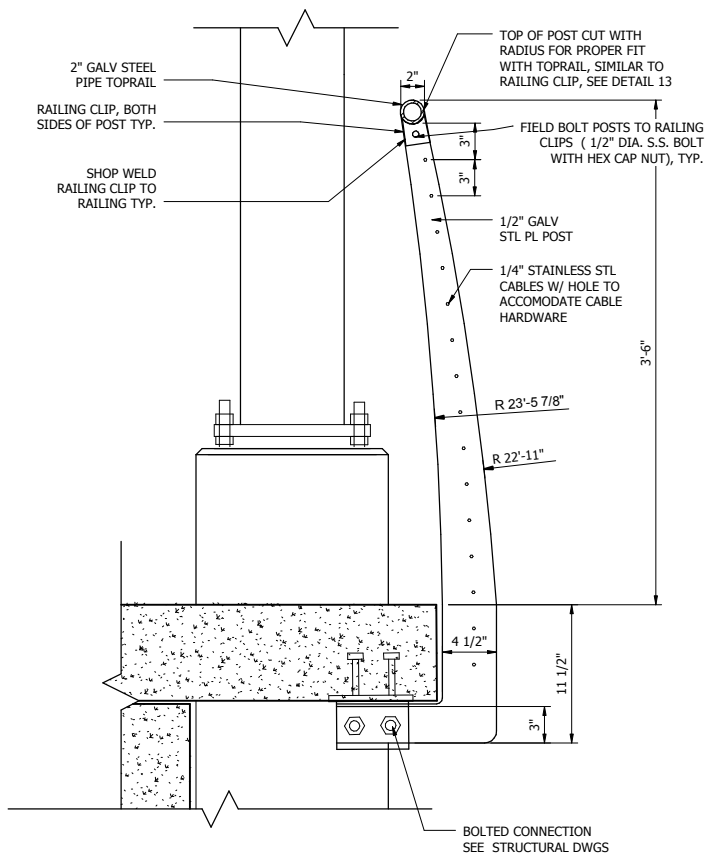


DYER TO HAMMOND, INDIANA

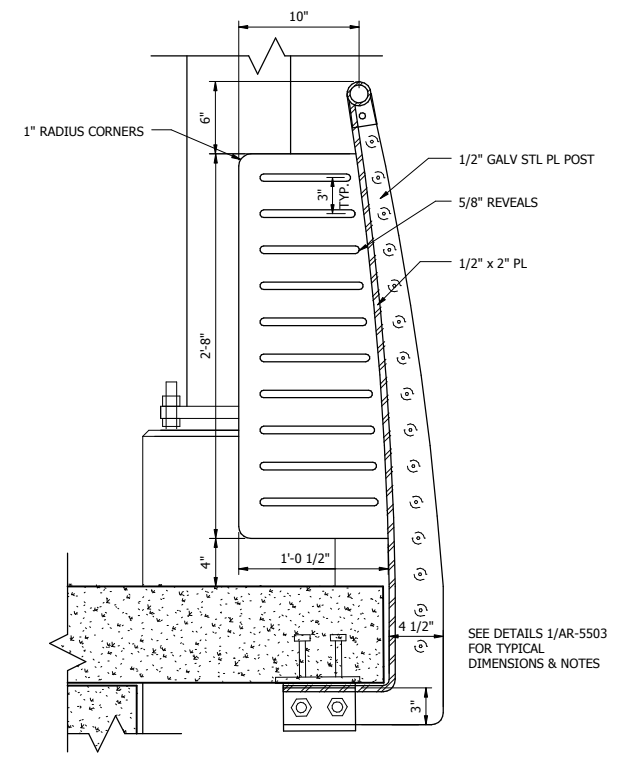
DESIGNED:	R. Krieger
DRAWN:	K. Gonzales
CHECKED:	U. Bamert
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 65.6 PROJECT NAME	
TYPICAL STAIR & RAMP DETAILS	
FILENAME	SHEET
SCALE	255 OF 361

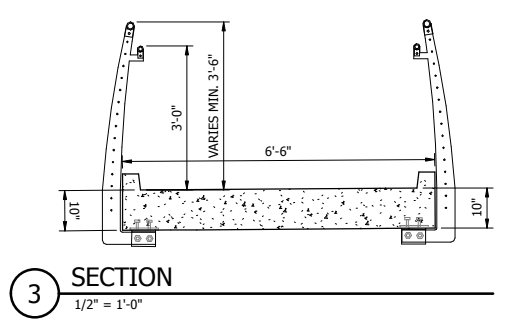
PLOT DATE: 7/20/2017 12:44:25 PM



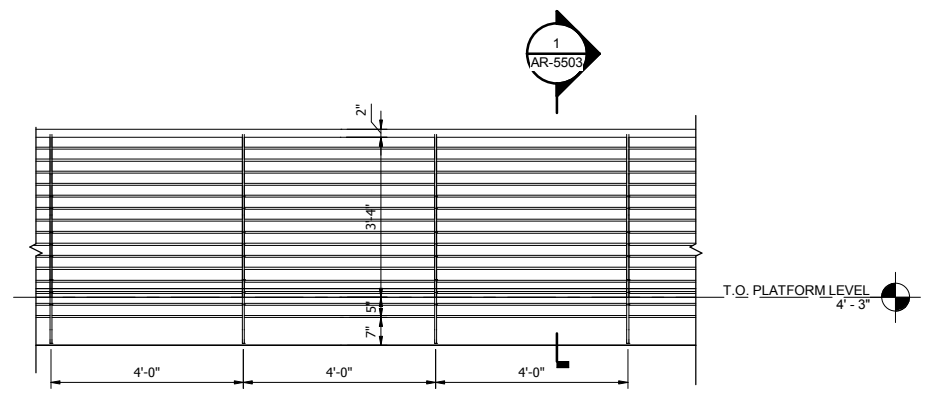
1 GUARDRAIL POST
1/2" = 1'-0"



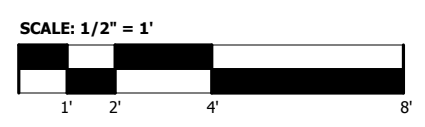
2 GUARDRAIL CLOSURE POST
1/2" = 1'-0"



3 SECTION
1/2" = 1'-0"



4 PLATFORM GUARDRAIL ELEVATION
1/2" = 1'-0"



PLOT DATE: 7/20/2017 5:31:06 PM



ISSUE	DATE	DESCRIPTION



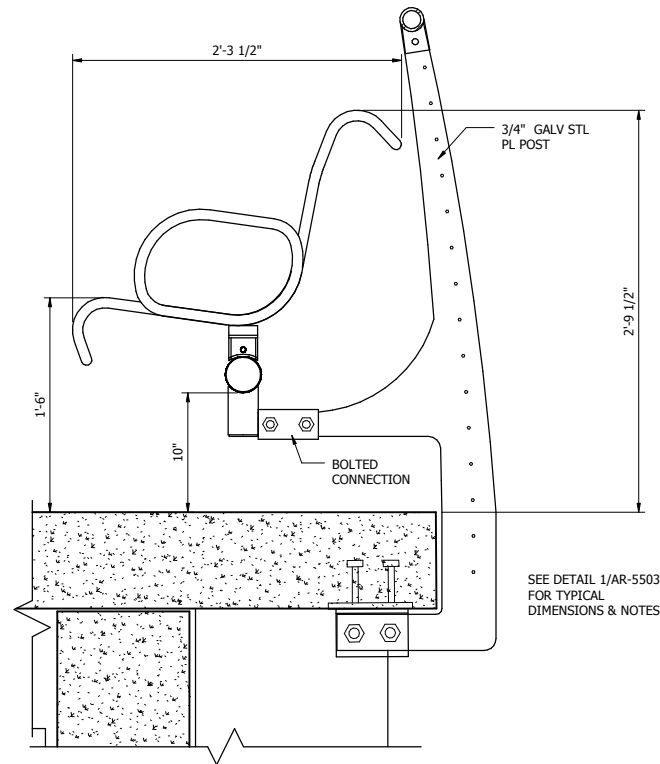
DESIGNED:	R. Krieger
DRAWN:	K. Gonzales
CHECKED:	U. Bamert
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES **AR-5503**

NICTD - WEST LAKE CORRIDOR - MP 65.6
PROJECT NAME

TYPICAL RAILING DETAILS

FILENAME		SHEET	256 OF 361
SCALE	As indicated		



1 BENCH POST
1 1/2" = 1'-0"

SEE DETAIL 1/AR-5503
FOR TYPICAL
DIMENSIONS & NOTES

NOT FOR CONSTRUCTION SERIES AR-5504



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ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

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DRAWN: K. Gonzales
CHECKED: U. Bamert
DATE: 07/21/17

NICTD - WEST LAKE CORRIDOR - MP 65.6
PROJECT NAME
TYPICAL BENCH DETAILS

FILENAME	SHEET
SCALE	257 OF 361
1 1/2" = 1'-0"	

DOOR SCHEDULE FOR TYPICAL STATION BUILDING & WARMING HUT												
MARK	FROM	TO	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	HARDWARE	LABEL	HEAD	JAMB	SADDLE	REMARKS
1	PLATFORM AREA	WAITING AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT
2	UNISEX TOILET 1	WAITING AREA	3'-0"	7'-0"	H.M.	H.M.						
3	WAITING AREA	PLATFORM AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT
4	UNISEX TOILET 2	WAITING AREA	3'-0"	7'-0"	H.M.	H.M.						
5	MECH. RM	WAITING AREA	3'-0"	7'-0"	H.M.	H.M.						
6	IT RM.	PARKING LOT	4'-6"	7'-0"	H.M.	H.M.						
7	WARMING HUT	PLATFORM AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT
8	WARMING HUT	PLATFORM AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT
9	WARMING HUT	PLATFORM AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT
10	WARMING HUT	PLATFORM AREA	3'-0"	7'-2"	ALUM.	ALUM.						STOREFRONT

ROOM FINISH SCHEDULE					
NAME	FINISHES				COMMENTS
	WALL	BASE	CEILING	FLOOR	
PLATFORM	N/A	N/A	STANDING SEAM METAL ROOF	TINTED CONC.	COLOR TO BE SELECTED BY NICTD
UNISEX TOILET	CT	CT	ACT	CT	5' HIGH WAINSCOT CT ALL AROUND
WAITING ROOM	SGP	VINYL	METAL PANEL	CT	
VENDING AREA	SGP	N/A	N/A	CONC.	
IT ROOM	CONC.	N/A	N/A	CONC.	
COMM./ELECTRIC ROOM	CONC.	N/A	N/A	CONC.	
MECHANICAL ROOM	CONC.	N/A	N/A	CONC.	
WARMING HUT	ALUMINUM STOREFRONT SYSTEM, GLAZING	N/A	WOOD FIBER PANELS	TINTED CONC.	
UNDERPASS	CT	N/A	P. CONC.	CONC.	

KEY NOTE LEGEND
SGP: SEMI GLOSS PAINT
CT: CERAMIC TILE
VCT: VINYL COMPOSITION TILE
ACT: ACOUSTICAL CEILING TILE
N/A: NOT APPLICABLE
CONC.: CONCRETE
P. CONC.: PAINTED CONCRETE

NOT FOR CONSTRUCTION SERIES **AR-5601**



ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

DESIGNED: R. Krieger
DRAWN: K. Gonzales
CHECKED: U. Bamert
DATE: 07/21/17

NICTD - WEST LAKE CORRIDOR - MP 65.6
PROJECT NAME

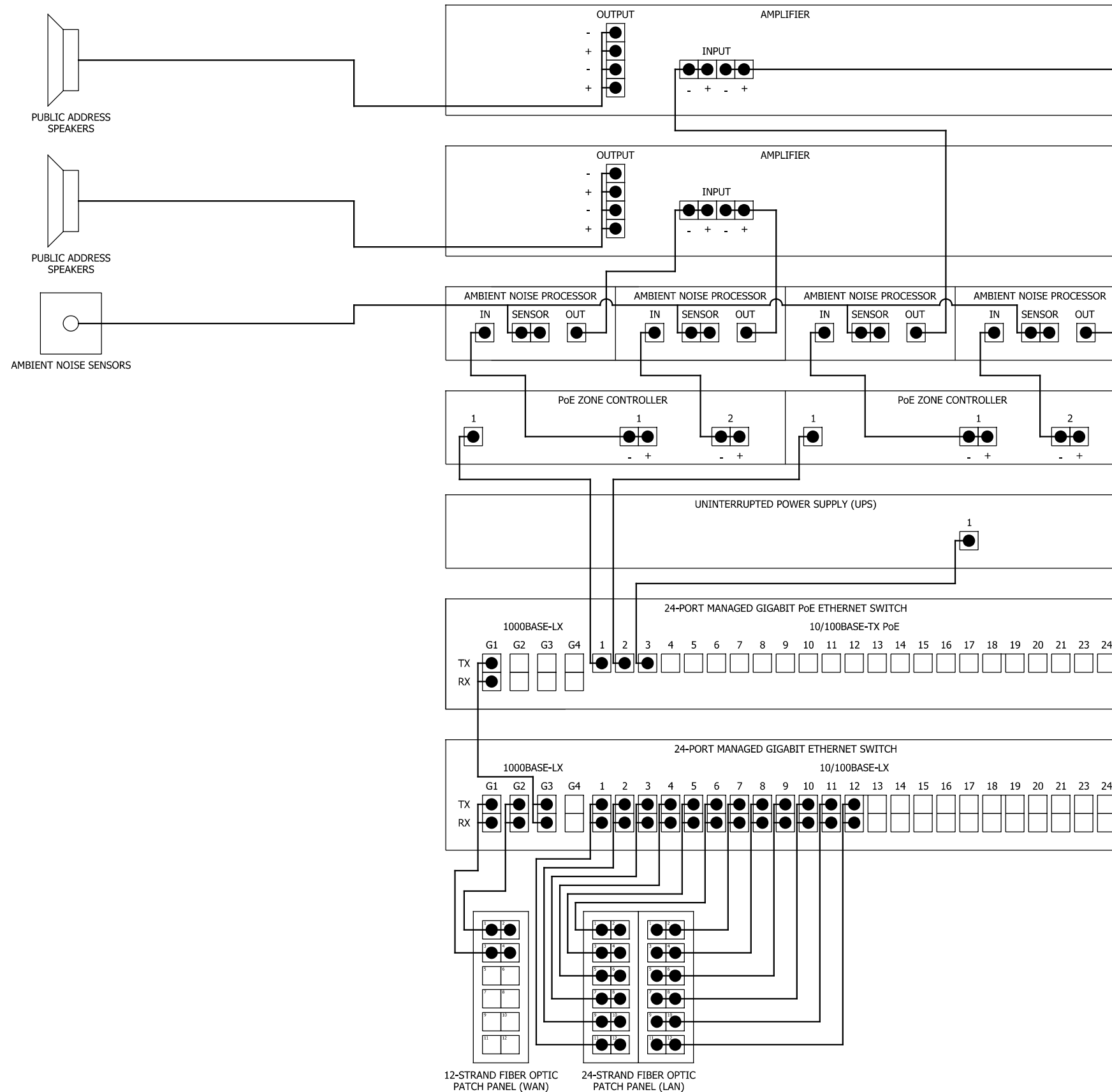
FINISH SCHEDULE & DOOR SCHEDULE

FILENAME	SHEET
SCALE: 12" = 1'-0"	258 OF 361

PLOT DATE: 7/20/2017 5:28:55 PM

STATION COMMUNICATIONS HUB SYSTEMS DETAIL (TYP.)

Scale: NOT TO SCALE



NOTES:

DRAWING REPRESENTS TYPICAL STATION SYSTEMS.

EQUIPMENT SHOWN IS TO BE RACK MOUNTED IN THE STATION COMMUNICATIONS ROOM, EXCEPT AT MUNSTER RIDGE STATION. AT MUNSTER RIDGE STATION, EQUIPMENT SHOWN IS TO BE RACK MOUNTED IN A CLIMATE CONTROLLED NEMA CABINET ENCLOSURE.

STATION WAN CONNECTION TO BE PROVIDED BY 12-STRAND SINGLE MODE FIBER OPTIC DROP CABLE TO COMMUNICATIONS HUB. SEE COMMUNICATIONS PLANS FOR ADDITIONAL INFORMATION.

SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

NUMBER AND LOCATION OF EQUIPMENT MAY VARY. NOT ALL EQUIPMENT MAY BE REQUIRED.

LOCATION AND PORTS MAY VARY.

SEE STATION SYSTEMS AND SECURITY BASIS OF DESIGN FOR ADDITIONAL INFORMATION.

24-STRAND FIBER OPTIC PATCH PANEL TO BE UTILIZED FOR STATION LAN NETWORK CONNECTIONS TO DEVICES FARTHER THAN 150 FT FROM THE 24-PORT MANAGED GIGABIT PoE ETHERNET SWITCH.

DEVICES FARTHER THAN 150 FT FROM THE 24-PORT MANAGED GIGABIT PoE ETHERNET SWITCH TO COMMUNICATE VIA 24-STRAND SINGLE MODE FIBER OPTIC CABLE. DEVICES FARTHER THAN 150 FT FROM THE 24-PORT MANAGED GIGABIT PoE ETHERNET SWITCH ARE TO TIE INTO THE NETWORK VIA LOCAL 12-PORT MANAGED GIGABIT PoE SWITCH IN STATION COMMUNICATIONS CABINETS.

THE FOLLOWING STATION ELEMENTS, IF LOCATED WITHIN 150 FT OF THE 24-PORT MANAGED GIGABIT PoE ETHERNET SWITCH, ARE TO BE CONNECTED TO THE 24-PORT MANAGED GIGABIT PoE ETHERNET SWITCH VIA CAT 6 CABLE:

- CCTV CAMERAS
- TICKET VENDING MACHINES
- REAL-TIME PASSENGER INFORMATION SYSTEM DISPLAYS WITH INTEGRATED CONTROLLERS
- EMERGENCY TELEPHONES

PLOT DATE: 7/20/2017 3:42:20 PM JKJELIMA



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ISSUE	DATE	DESCRIPTION



NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

DESIGNED:	T. HILES
DRAWN:	J. MERSEREAU
CHECKED:	S. WICKS
DATE:	07/21/17

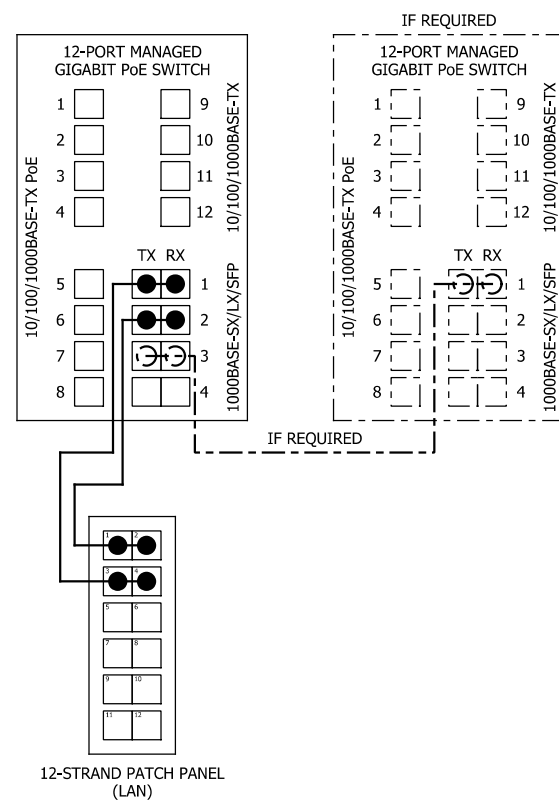
NOT FOR CONSTRUCTION SERIES AR-5801

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

SYSTEMS - NETWORKING DETAIL 1
STATION

FILENAME	SHT_WL_TE_SSYS_DT_01.dgn	SHEET
SCALE	AS NOTED	259 OF 361

STATION COMMUNICATIONS CABINET SYSTEMS DETAIL (TYP.)
Scale: NOT TO SCALE



NOTES:

DRAWING REPRESENTS TYPICAL STATION SYSTEMS.

EQUIPMENT SHOWN IS TO BE DIN-RAIL MOUNTED WITHIN THE STATION COMMUNICATIONS CABINETS.

ELEMENTS SHOWN ARE PART OF THE STATION LAN NETWORK. STATION COMMUNICATIONS CABINETS TO COMMUNICATE TO STATION COMMUNICATIONS HUB VIA 24-STRAND SINGLE MODE FIBER OPTIC CABLE.

STATION WAN CONNECTION TO BE PROVIDED BY 12-STRAND SINGLE MODE FIBER OPTIC DROP CABLE TO COMMUNICATIONS HUB. SEE COMMUNICATIONS PLANS FOR ADDITIONAL INFORMATION.

SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

NUMBER AND LOCATION OF EQUIPMENT MAY VARY. NOT ALL EQUIPMENT MAY BE REQUIRED. NUMBER OF SWITCHES TO BE DETERMINED BY THE NUMBER OF REQUIRED PORTS.

LOCATION AND PORTS MAY VARY.

SEE STATION SYSTEMS AND SECURITY BASIS OF DESIGN DOCUMENT FOR ADDITIONAL INFORMATION.

THE FOLLOWING STATION ELEMENTS, IF LOCATED WITHIN 150 FT OF THE 12-PORT MANAGED GIGABIT PoE ETHERNET SWITCH, ARE TO BE CONNECTED TO THE 12-PORT MANAGED GIGABIT PoE ETHERNET SWITCH VIA CAT 6 CABLE:

- CCTV CAMERAS
- TICKET VENDING MACHINES
- REAL-TIME PASSENGER INFORMATION SYSTEM DISPLAYS WITH INTEGRATED CONTROLLERS
- EMERGENCY TELEPHONES

PLOT DATE: 7/20/2017 3:42:28 PM JKJELLMA



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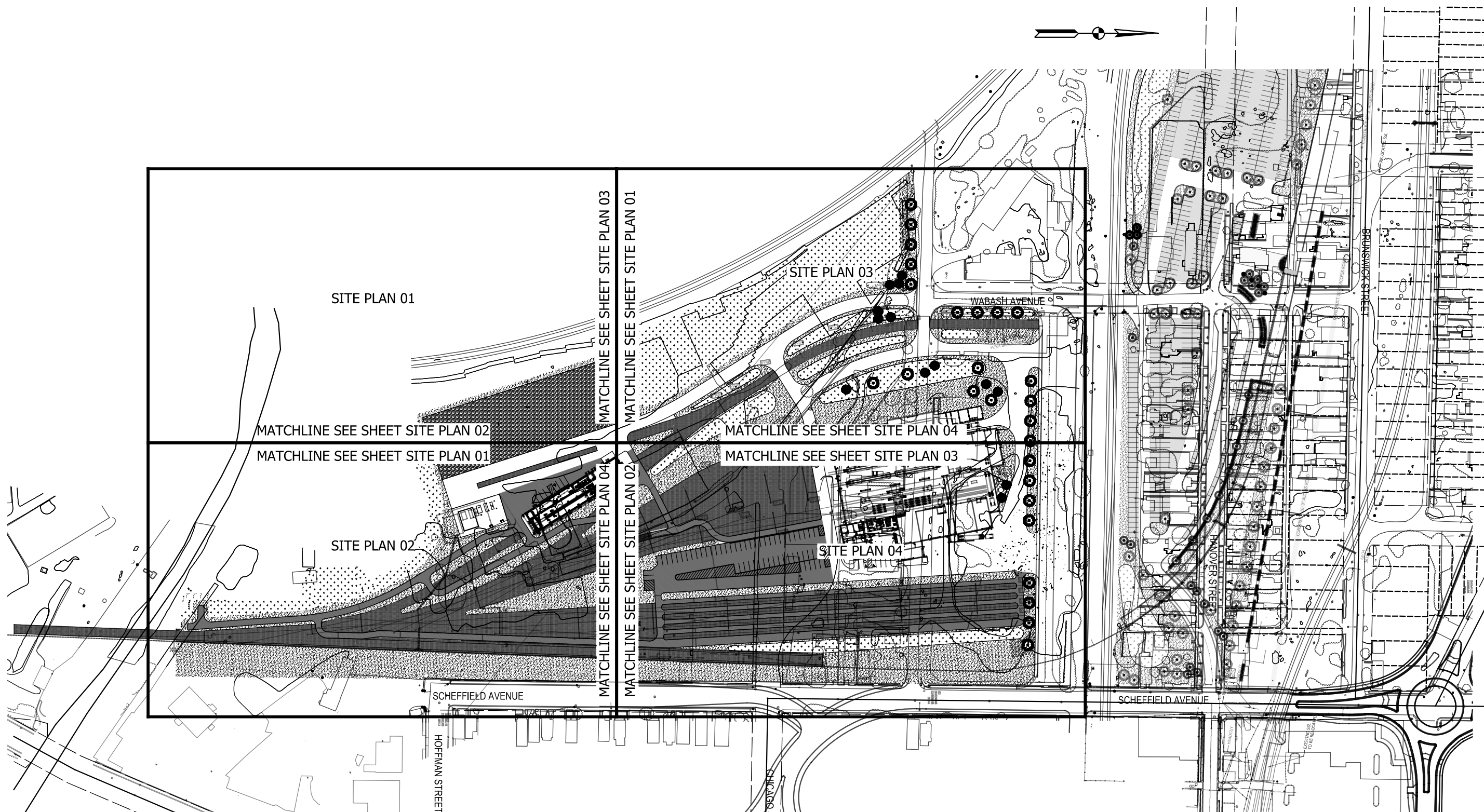
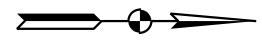
NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

DESIGNED:	T. HILES
DRAWN:	J. MERSEREAU
CHECKED:	S. WICKS
DATE:	07/21/17

NOT FOR CONSTRUCTION		SERIES AR-5802
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
SYSTEMS - NETWORKING DETAIL 2 STATION		
FILENAME	SHT_WL_TE_SSYS_DT_02.dgn	SHEET
SCALE	AS NOTED	260 OF 361



MAINTENANCE FACILITY KEYPLAN
Scale: 1"=100'-0"

SCALE: 1" = 100'
0' 50' 100'

PLOT DATE: 7/19/2017 11:23:55 PM JKJELIMA

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WEST LAKE
CORRIDOR
DYER TO HAMMOND, INDIANA

DESIGNED:	JKH
DRAWN:	CJS
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6001

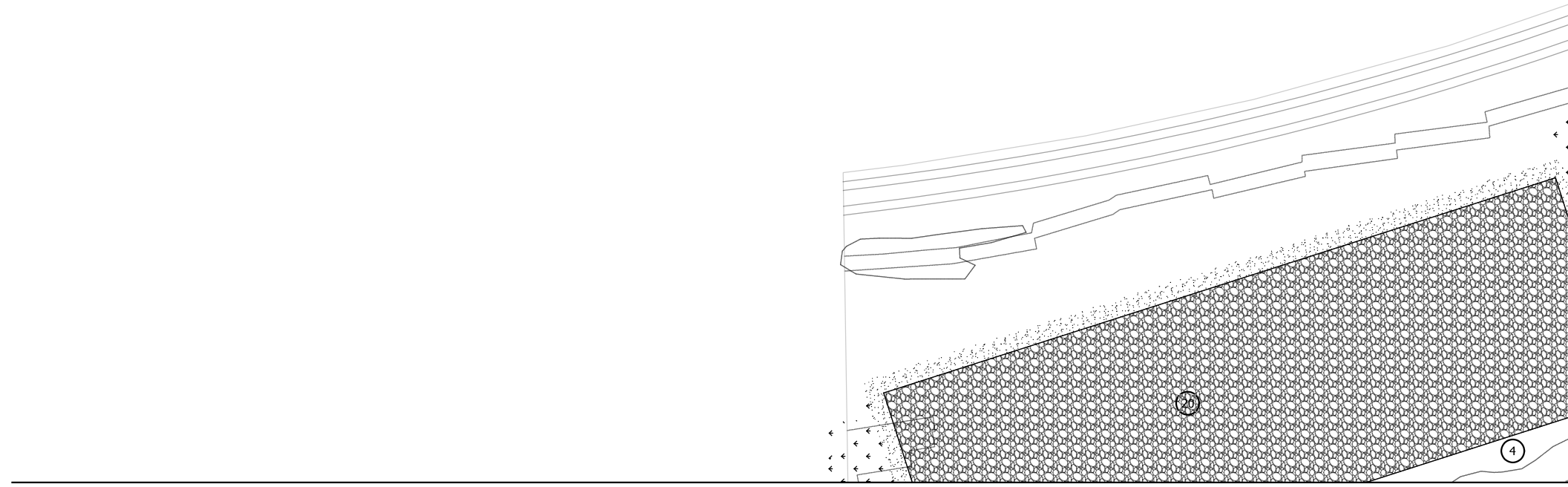
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**MAINTENANCE FACILITY SITE KEYPLAN
FACILITY**

FILENAME	SHT_WL_FA_HMFS_KP_01.dgn	SHEET	261 OF 361
SCALE	AS NOTED		



MATCHLINE SEE SHEET SITE PLAN 03



MATCHLINE SEE SHEET SITE PLAN 02

MAINTENANCE FACILITY SITE PLAN
Scale: 1"=40'-0"

GENERAL IMPROVEMENT NOTES

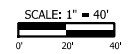
1. UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
2. DIMENSIONS ARE TAKEN FROM THE FACE OF CURBS, WALLS AND/OR BUILDINGS UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED, NOT BUILT, PAVED OR OTHERWISE COVERED BY CONSTRUCTION SHALL BE SEEDED WITH A PERMANENT TYPE TURFGRASS.
4. NOT ALL KEY NOTES USED ON EVERY SHEET.

SITE IMPROVEMENT KEY

1. CONCRETE PAVEMENT, TYPE 1
2. CONCRETE PAVEMENT, TYPE 2
3. ASPHALT PAVEMENT, TYPE 1
4. ASPHALT PAVEMENT, TYPE 2
5. CONCRETE CURB
6. OUTDOOR BENCH
7. OUTDOOR WASTE RECEPTACLE
8. ACCESSIBLE PARKING POST SIGN
9. ACCESSIBLE PARKING PAVEMENT MARKING
10. DECORATIVE CONCRETE PAVEMENT
11. BOLLARD
12. CONCRETE PARKING BLOCK
13. PAVEMENT MARKING - 4"
14. PAVEMENT MARKING HATCH - 4"@3' O.C., 45°
15. PAVEMENT MARKING CROSSWALK - 24"W, 8'L, @ 4' O.C.
16. DECORATIVE PICKET FENCE
17. LOUVERED SCREEN ENCLOSURE
18. DUMPSTER
19. UTILITY
20. COMPACTED AGGREGATE STORAGE
21. BALLAST (REFER TO TRACK DRAWINGS)
22. BICYCLE RACK
23. OUTDOOR TABLE WITH SEATING
24. CONCRETE CURB TURNOUT
25. ACCESSIBLE CURB RAMP
26. LOUVERED SCREEN GATE
27. MASONRY SEATWALL PLANTER

LANDSCAPE PLANTING LEGEND

- DECIDUOUS SHADE TREE
- DECIDUOUS ORNAMENTAL TREE
- EVERGREEN TREE
- SHRUB / PERENNIAL
- TURFGRASS SEEDING
- NATIVE GRASS/FORB SEEDING



PLOT DATE: 7/19/2017 11:25:05 PM JKJELIMA

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WEST LAKE CORRIDOR
DYER TO HAMMOND, INDIANA

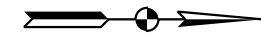
DESIGNED:	JKH
DRAWN:	CJS
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6101

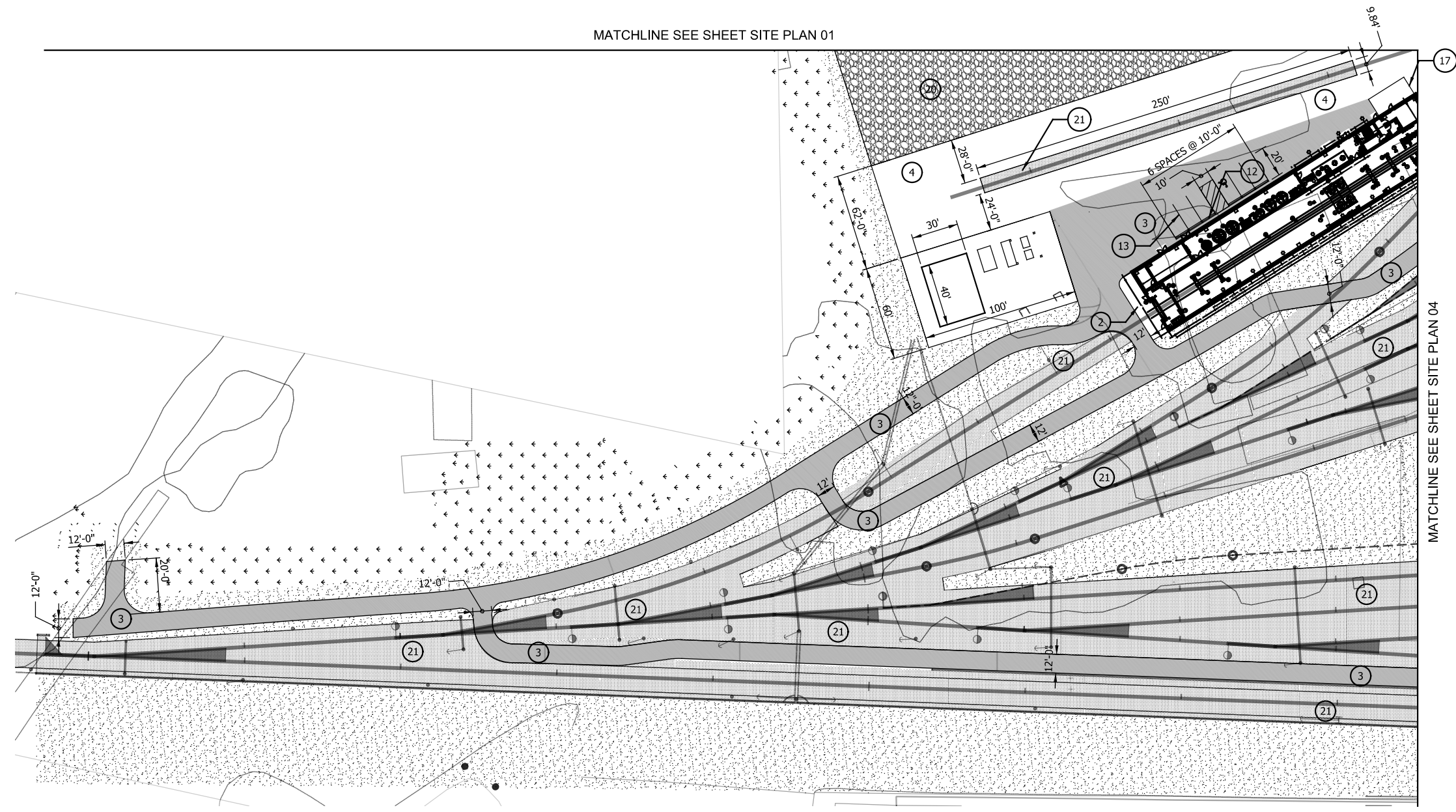
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**MAINTENANCE FACILITY SITE PLAN
FACILITY**

FILENAME	SHT_WL_FA_HMFS_PL_01.dgn	SHEET	262 OF 361
SCALE	AS NOTED		



MATCHLINE SEE SHEET SITE PLAN 01



MATCHLINE SEE SHEET SITE PLAN 04

GENERAL IMPROVEMENT NOTES

- 1. UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
2. DIMENSIONS ARE TAKEN FROM THE FACE OF CURBS, WALLS AND/OR BUILDINGS UNLESS OTHERWISE NOTED.
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4. NOT ALL KEY NOTES USED ON EVERY SHEET.

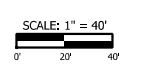
SITE IMPROVEMENT KEY

- 1. CONCRETE PAVEMENT, TYPE 1
2. CONCRETE PAVEMENT, TYPE 2
3. ASPHALT PAVEMENT, TYPE 1
4. ASPHALT PAVEMENT, TYPE 2
5. CONCRETE CURB
6. OUTDOOR BENCH
7. OUTDOOR WASTE RECEPTACLE
8. ACCESSIBLE PARKING POST SIGN
9. ACCESSIBLE PARKING PAVEMENT MARKING
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25. ACCESSIBLE CURB RAMP
26. LOUVERED SCREEN GATE
27. MASONRY SEATWALL PLANTER

LANDSCAPE PLANTING LEGEND

- DECIDUOUS SHADE TREE
DECIDUOUS ORNAMENTAL TREE
EVERGREEN TREE
SHRUB / PERENNIAL
TURFGRASS SEEDING
NATIVE GRASS/FORB SEEDING

HAMMOND MAINTENANCE FACILITY SITE PLAN
Scale: 1"=40'-0"



PLOT DATE: 7/21/2017 9:07:48 AM

JKIELLMA

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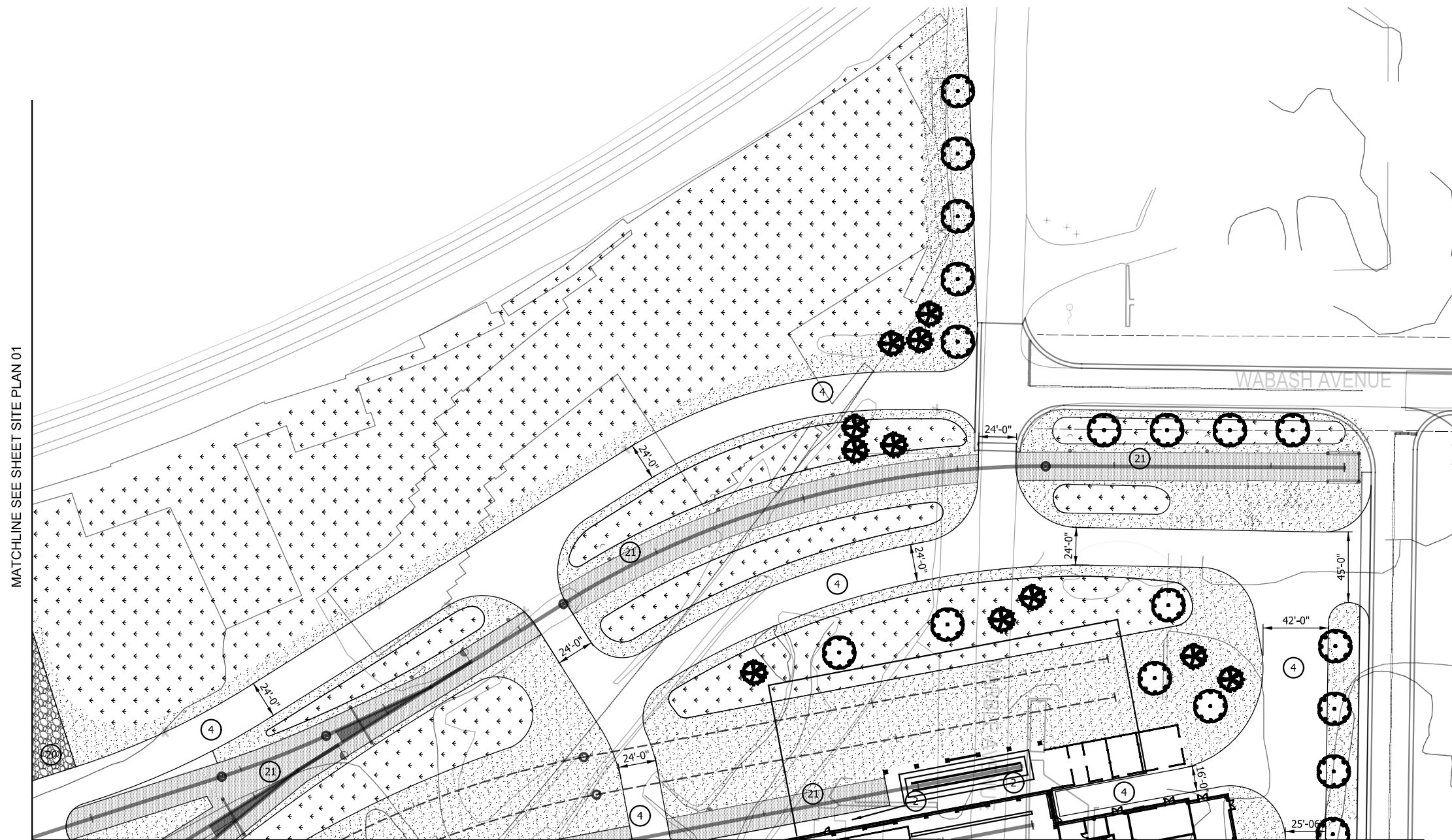
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NICTD logo and address: NORTHERN INDIANA COMMUTER TRANSPORTATION DISTRICT 33 East Highway 12 Chesterton, Indiana 46304

WEST LAKE CORRIDOR logo and text: DYER TO HAMMOND, INDIANA

Table with design details: DESIGNED: JKH, DRAWN: CJS, CHECKED: CGH, DATE: 07/21/17

NOT FOR CONSTRUCTION stamp, NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK, MAINTENANCE FACILITY SITE PLAN FACILITY, FILENAME: SHT_WL_FA_HMFS_PL_02.dgn, SHEET: 263 OF 361



MATCHLINE SEE SHEET SITE PLAN 01

MATCHLINE SEE SHEET SITE PLAN 04
HAMMOND MAINTENANCE FACILITY SITE DESIGN
 Scale: 1"=40'-0"







GENERAL IMPROVEMENT NOTES

1. UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION.
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4. NOT ALL KEY NOTES USED ON EVERY SHEET.

SITE IMPROVEMENT KEY

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2. CONCRETE PAVEMENT, TYPE 2
3. ASPHALT PAVEMENT, TYPE 1
4. ASPHALT PAVEMENT, TYPE 2
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7. OUTDOOR WASTE RECEPTACLE
8. ACCESSIBLE PARKING POST SIGN
9. ACCESSIBLE PARKING PAVEMENT MARKING
10. DECORATIVE CONCRETE PAVEMENT
11. BOLLARD
12. CONCRETE PARKING BLOCK
13. PAVEMENT MARKING - 4"
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23. OUTDOOR TABLE WITH SEATING
24. CONCRETE CURB TURNOUT
25. ACCESSIBLE CURB RAMP
26. LOUVERED SCREEN GATE
27. MASONRY SEATWALL PLANTER

LANDSCAPE PLANTING LEGEND

-  DECIDUOUS SHADE TREE
-  DECIDUOUS ORNAMENTAL TREE
-  EVERGREEN TREE
-  SHRUB / PERENNIAL
-  TURFGRASS SEEDING
-  NATIVE GRASS/FORB SEEDING

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

PLOT DATE: 7/19/2017 11:25:58 PM JKJELIMA



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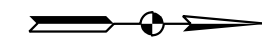
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DYER TO HAMMOND, INDIANA

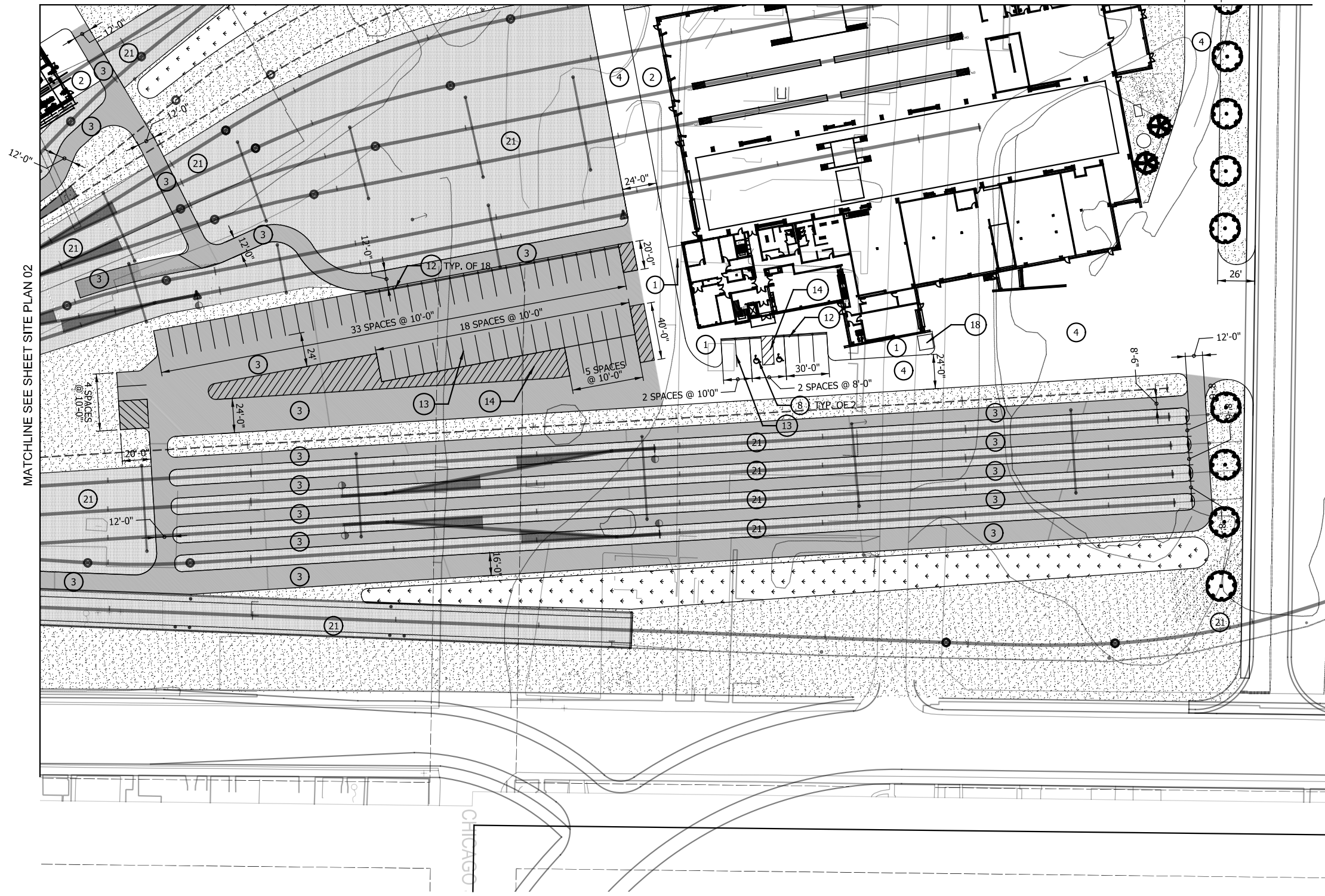
DESIGNED:	JKH
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DATE:	07/21/17

NOT FOR CONSTRUCTION		SERIES C-6103
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK		
MAINTENANCE FACILITY SITE PLAN FACILITY		
FILENAME	SHT_WL_FA_HMFS_PL_03.dgn	SHEET
SCALE	AS NOTED	264 OF 361



MATCHLINE SEE SHEET SITE PLAN 03

25'-6"



MATCHLINE SEE SHEET SITE PLAN 02

GENERAL IMPROVEMENT NOTES

- 1. UTILITIES SHOWN ARE APPROXIMATE, FIELD VERIFY PRIOR TO CONSTRUCTION.
- 2. DIMENSIONS ARE TAKEN FROM THE FACE OF CURBS, WALLS AND/OR BUILDINGS UNLESS OTHERWISE NOTED.
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- 4. NOT ALL KEY NOTES USED ON EVERY SHEET.

SITE IMPROVEMENT KEY

- 1. CONCRETE PAVEMENT, TYPE 1
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- 3. ASPHALT PAVEMENT, TYPE 1
- 4. ASPHALT PAVEMENT, TYPE 2
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- 6. OUTDOOR BENCH
- 7. OUTDOOR WASTE RECEPTACLE
- 8. ACCESSIBLE PARKING POST SIGN
- 9. ACCESSIBLE PARKING PAVEMENT MARKING
- 10. DECORATIVE CONCRETE PAVEMENT
- 11. BOLLARD
- 12. CONCRETE PARKING BLOCK
- 13. PAVEMENT MARKING - 4"
- 14. PAVEMENT MARKING HATCH - 4" @ 3' O.C., 45°
- 15. PAVEMENT MARKING CROSSWALK - 24"W, 8'L, @ 4' O.C.
- 16. DECORATIVE PICKET FENCE
- 17. LOUVERED SCREEN ENCLOSURE
- 18. DUMPSTER
- 19. UTILITY
- 20. COMPACTED AGGREGATE STORAGE
- 21. BALLAST (REFER TO TRACK DRAWINGS)
- 22. BICYCLE RACK
- 23. OUTDOOR TABLE WITH SEATING
- 24. CONCRETE CURB TURNOUT
- 25. ACCESSIBLE CURB RAMP
- 26. LOUVERED SCREEN ENCLOSURE
- 27. MASONRY SEATWALL PLANTER

LANDSCAPE PLANTING LEGEND

- DECIDUOUS SHADE TREE
- DECIDUOUS ORNAMENTAL TREE
- EVERGREEN TREE
- SHRUB / PERENNIAL
- TURFGRASS SEEDING
- NATIVE GRASS/FORB SEEDING

HAMMOND MAINTENANCE FACILITY SITE PLAN

Scale: 1"=40'-0"

SCALE: 1" = 40'

PLOT DATE: 7/19/2017 11:26:24 PM JKJELIMA

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WEST LAKE CORRIDOR
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DESIGNED:	JKH
DRAWN:	CJS
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6104

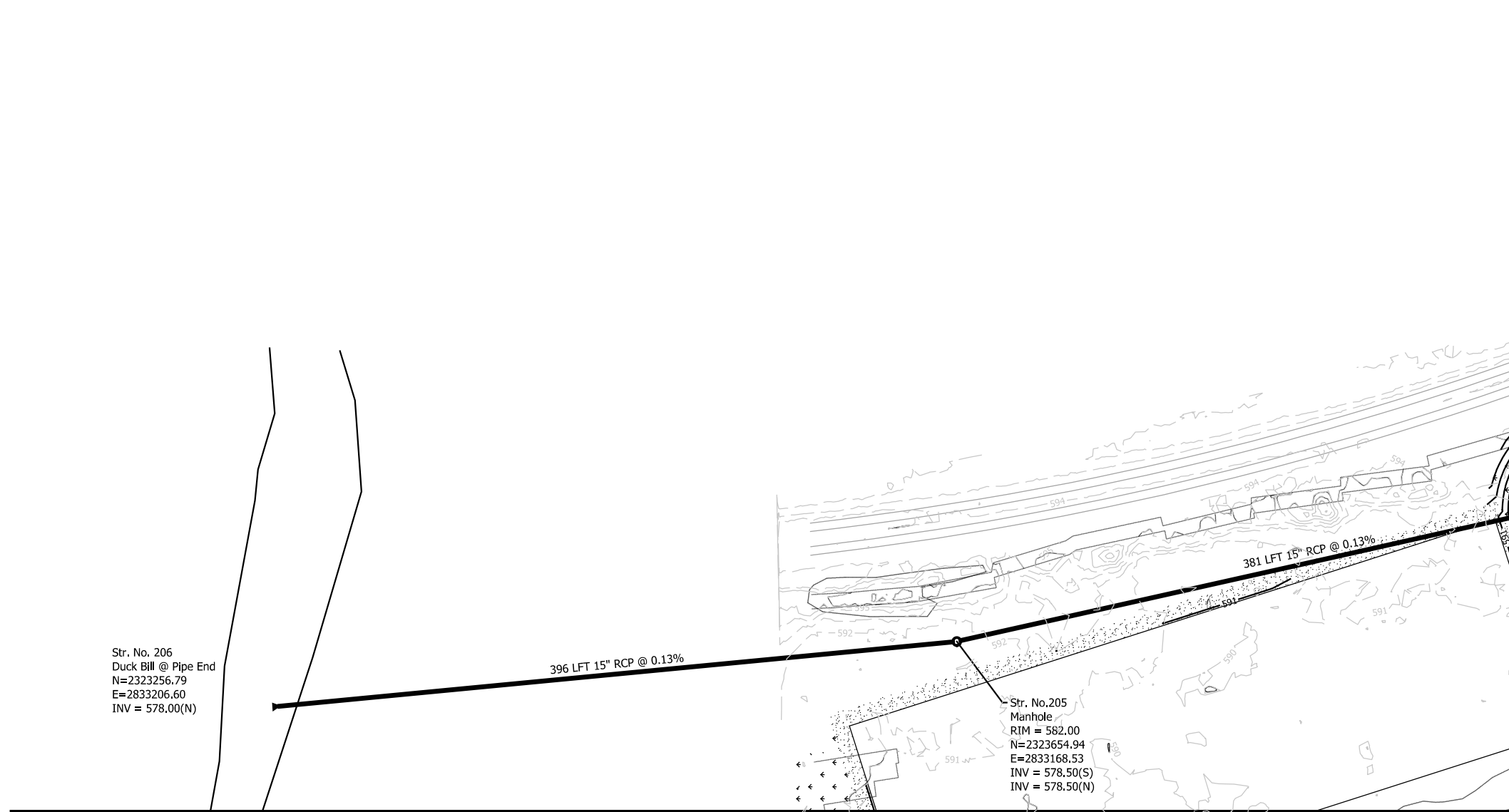
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
 SINGLE TRACK

MAINTENANCE FACILITY SITE PLAN FACILITY

FILENAME	SHT_WL_FA_HMFS_PL_04.dgn	SHEET	265 OF 361
SCALE	AS NOTED		

GENERAL GRADING/DRAINAGE NOTES

- A. PROPOSED GRADES AND SLOPES SHALL MATCH EXISTING GRADES AND SLOPES AT CONSTRUCTION LIMITS OR AS SHOWN ON DRAWING, TYP.
- B. UTILITIES AND UNDERGROUND OBSTACLES SHOWN ARE APPROXIMATE, FIELD VERIFY UTILITY LOCATION PRIOR TO COMMENCEMENT OF EARTHWORK AND/OR UTILITY ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION.
- C. PROPOSED FINISHED GRADES SHALL PROVIDE FOR POSITIVE DRAINAGE TO A DRAINAGE STRUCTURE OR DETENTION POND.
- D. NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AROUND ANY TRENCHING AREA FOR PUBLIC SAFETY.
- E. CONTRACTOR SHALL FILL LOW/DEPRESSIONAL GRADES WHICH MAY OCCUR THROUGH REQUIRED DEMOLITION, AS WELL AS, ANY AREA WITHIN THE GRADING LIMITS, SO AS TO PROVIDE CONSTANT UNIFORM SLOPES WHICH MEET THE REQUIREMENTS.



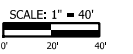
MATCHLINE SEE SHEET GRADING PLAN 03

MATCHLINE SEE SHEET GRADING PLAN 02

GRADING LEGEND

- New Drainage Pipe
- New Drainage Inlet
- New Drainage End Section
- New Drainage Manhole
- Proposed Contours
- Existing Contours
- BOTTOM OF CURB
- TOP OF CURB
- Spot Elevations
- Spot Elevations

MAINTENANCE FACILITY GRADING PLAN
Scale: 1"=40'-0"



PLOT DATE: 7/19/2017 11:26:56 PM JKJELIMA

NOT FOR CONSTRUCTION SERIES C-6105

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18 SINGLE TRACK

MAINTENANCE FACILITY GRADING FACILITY

FILENAME	SHT_WL_FA_HMFS_GD_01.dgn	SHEET	266 OF 361
SCALE	AS NOTED		

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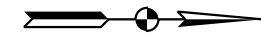
DLZ
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South Bend, IN 46615

ISSUE	DATE	DESCRIPTION

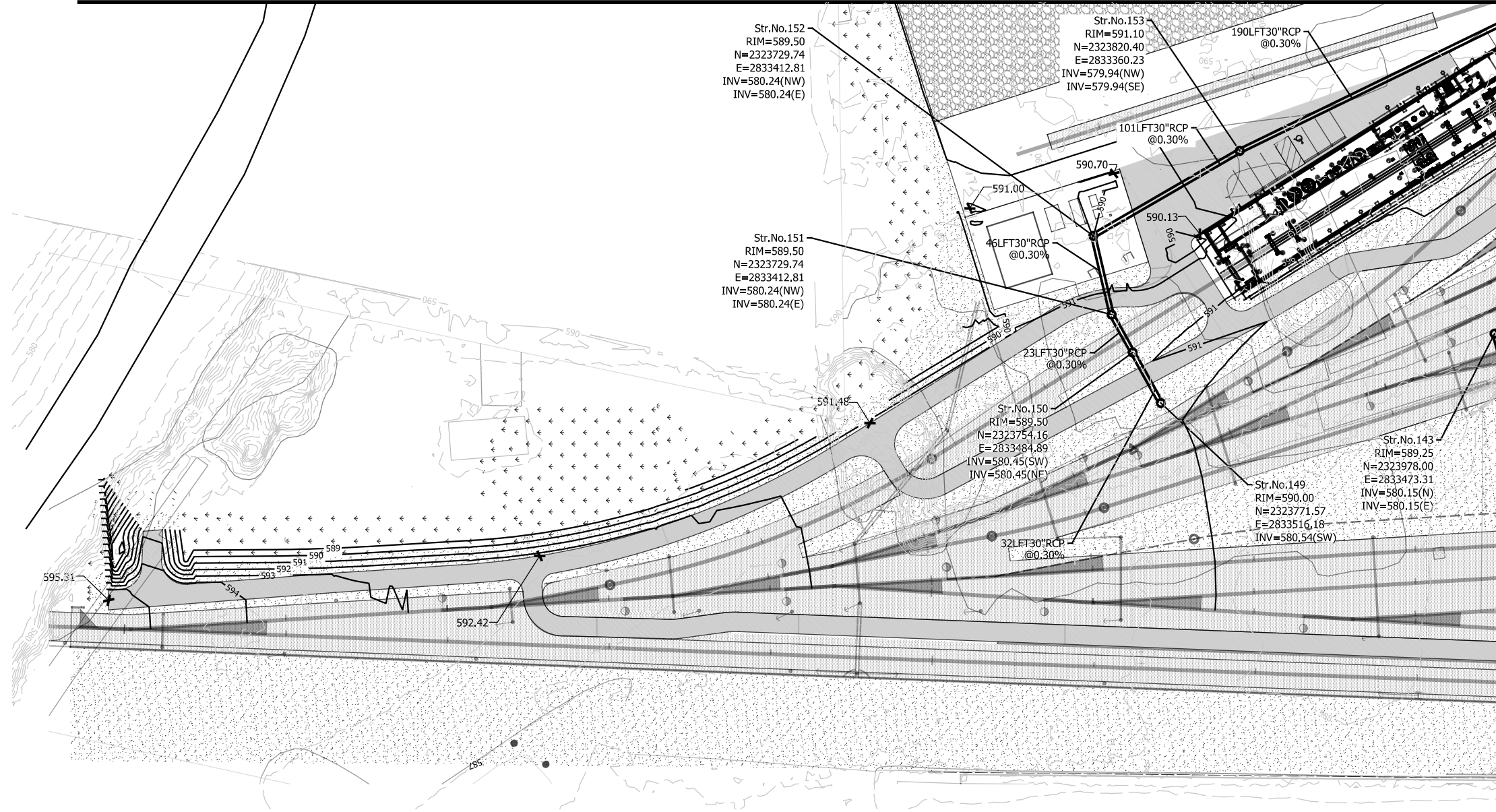
NICTD
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TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304

WEST LAKE CORRIDOR
DYER TO HAMMOND, INDIANA

DESIGNED:	JKH
DRAWN:	DPH
CHECKED:	CGH
DATE:	07/21/17



MATCHLINE SEE SHEET GRADING PLAN 01



MATCHLINE SEE SHEET GRADING PLAN 04

MAINTENANCE FACILITY GRADING PLAN
Scale: 1"=40'-0"

GENERAL GRADING/DRAINAGE NOTES

- A. PROPOSED GRADES AND SLOPES SHALL MATCH EXISTING GRADES AND SLOPES AT CONSTRUCTION LIMITS OR AS SHOWN ON DRAWING, TYP.
- B. UTILITIES AND UNDERGROUND OBSTACLES SHOWN ARE APPROXIMATE, FIELD VERIFY UTILITY LOCATION PRIOR TO COMMENCEMENT OF EARTHWORK AND/OR UTILITY ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION.
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- D. NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AROUND ANY TRENCHING AREA FOR PUBLIC SAFETY.
- E. CONTRACTOR SHALL FILL LOW/DEPRESSIONAL GRADES WHICH MAY OCCUR THROUGH REQUIRED DEMOLITION, AS WELL AS, ANY AREA WITHIN THE GRADING LIMITS, SO AS TO PROVIDE CONSTANT UNIFORM SLOPES WHICH MEET THE REQUIREMENTS.

GRADING LEGEND

- New Drainage Pipe
- New Drainage Inlet
- New Drainage End Section
- New Drainage Manhole
- Proposed Contours
- Existing Contours
- Spot Elevations
- Spot Elevations

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

PLOT DATE: 7/19/2017 11:27:18 PM JKJELIMA

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33 East Highway 12
Chesterton, Indiana 46304

WEST LAKE CORRIDOR
DYER TO HAMMOND, INDIANA

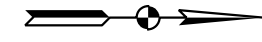
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DRAWN:	DPH
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6106

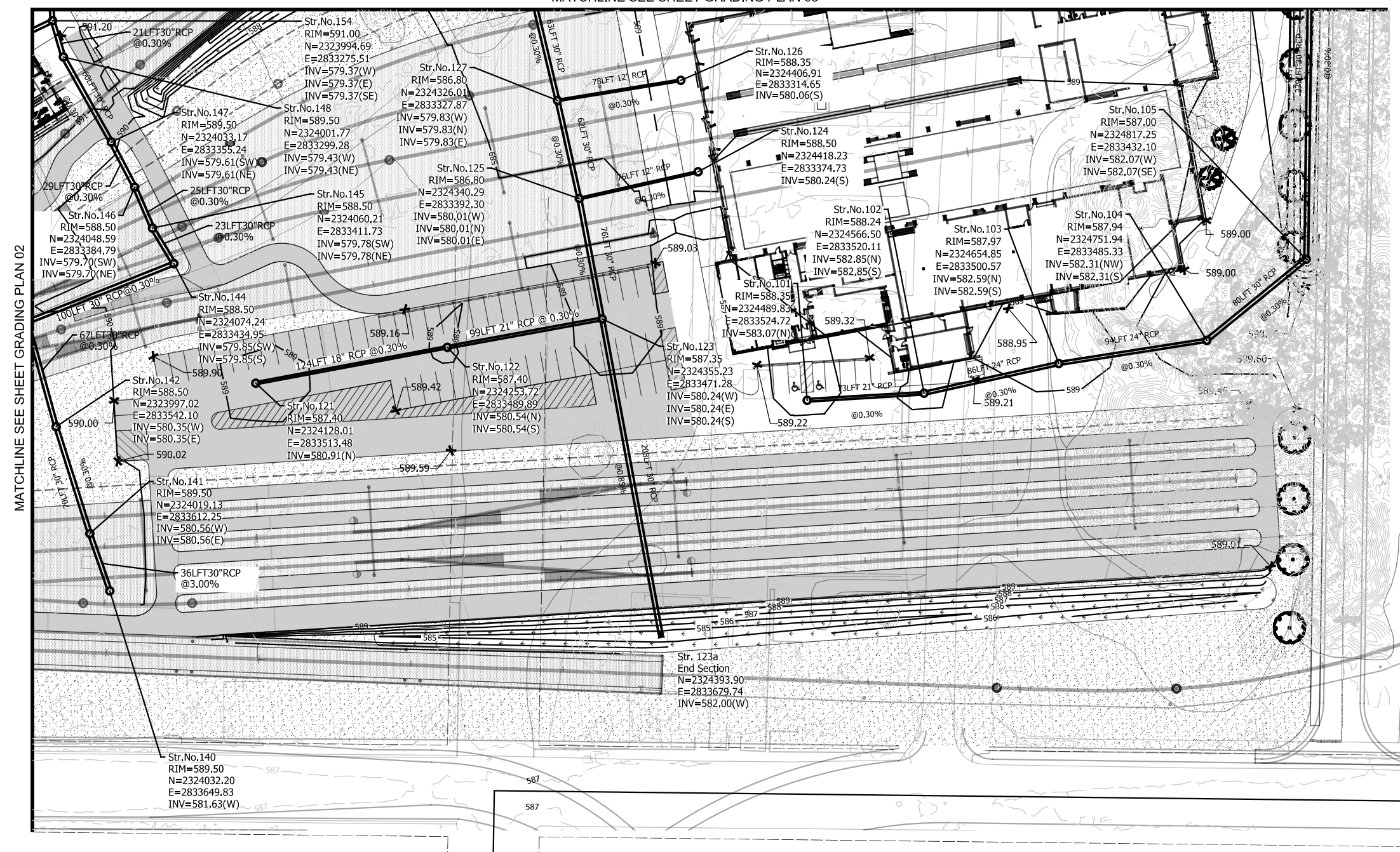
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MAINTENANCE FACILITY GRADING FACILITY

FILENAME	SHT_WL_FA_HMFS_GD_02.dgn	SHEET	267 OF 361
SCALE	AS NOTED		



MATCHLINE SEE SHEET GRADING PLAN 03



GENERAL GRADING/DRAINAGE NOTES

- A. PROPOSED GRADES AND SLOPES SHALL MATCH EXISTING GRADES AND SLOPES AT CONSTRUCTION LIMITS OR AS SHOWN ON DRAWING, TYP.
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GRADING LEGEND

- New Drainage Pipe
- New Drainage Inlet
- New Drainage End Section
- New Drainage Manhole
- Proposed Contours
- Existing Contours
- Spot Elevations
- Spot Elevations

MAINTENANCE FACILITY GRADING PLAN
Scale: 1"=40'-0"

SCALE: 1" = 40'
0 20 40

NOT FOR CONSTRUCTION SERIES C-6108

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MAINTENANCE FACILITY GRADING FACILITY

FILENAME	SHT_WL_FA_HMFS_GD_04.dgn	SHEET	269 OF 361
SCALE	AS NOTED		

DESIGNED: JKH
 DRAWN: DPH
 CHECKED: CGH
 DATE: 07/21/17



DYER TO HAMMOND, INDIANA

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 NORTHERN INDIANA COMMUTER
 TRANSPORTATION DISTRICT
 33 East Highway 12
 Chesterton, Indiana 46304



DLZ Indiana, LLC
 2211 E. Jefferson Boulevard
 South Bend, IN 46615



HDR Engineering, Inc.
 8550 W Bryn Mawr Ave., Suite 900
 Chicago, IL 60631

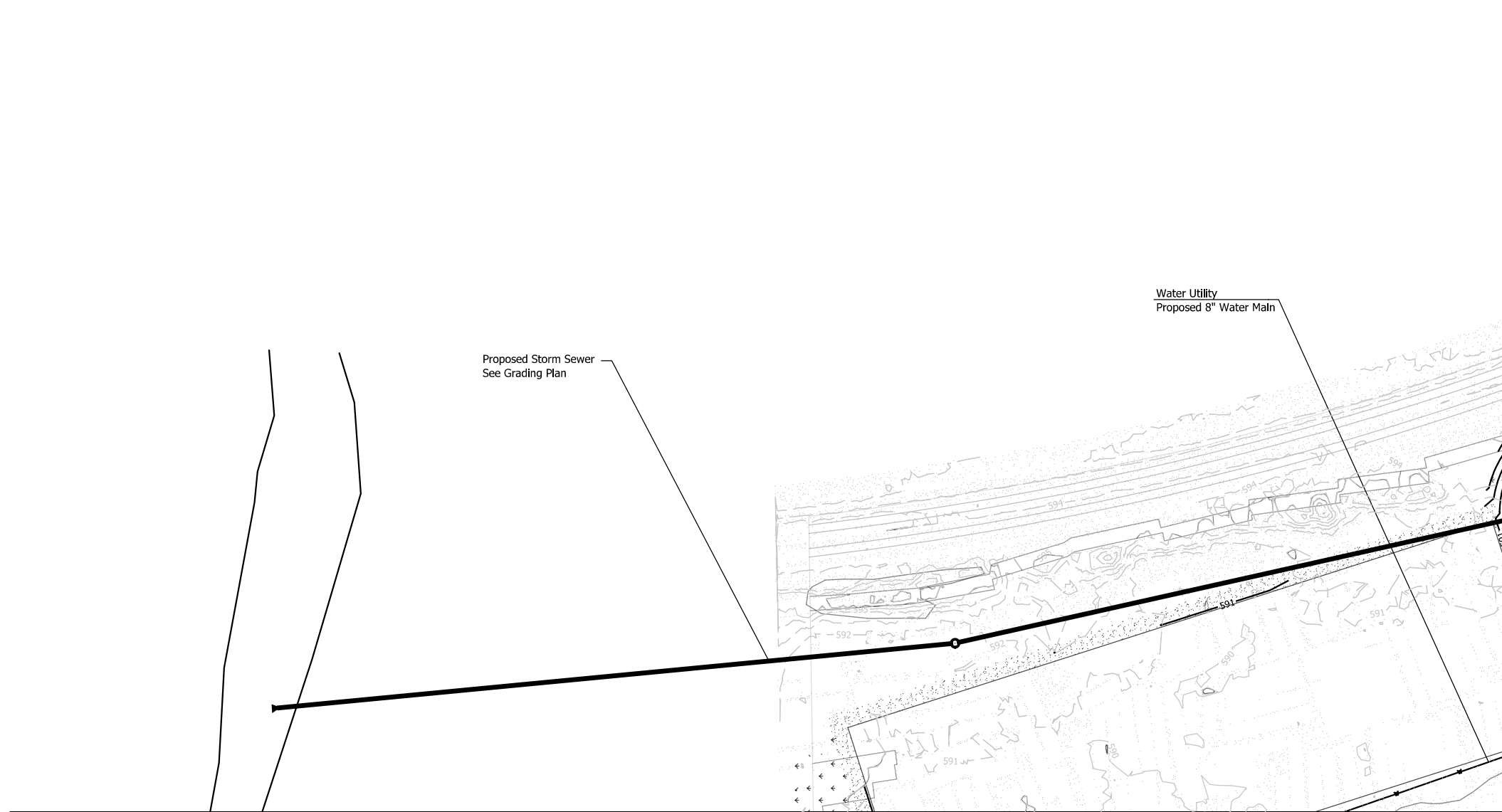
ISSUE	DATE	DESCRIPTION

PLOT DATE: 7/19/2017 11:28:20 PM JKJELMMA



GENERAL UTILITY NOTES

- A. UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION.
- B. COORDINATE ALL UTILITY CONNECTIONS WITH CORRESPONDING COMPANIES AT LEAST 48 HOURS IN ADVANCE PRIOR TO EXCAVATING.
- C. NO OPEN TRENCHES WILL BE ALLOWED IN THE EVENING AFTER DAILY CONSTRUCTION OPERATIONS. CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AROUND ANY TRENCHING AREA FOR PUBLIC SAFETY.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING NECESSARY. WATER REMOVED BY DEWATERING EQUIPMENT SHALL NOT BE DISPOSED OF INTO EXISTING SANITARY SEWER.
- E. ALL WATER MAIN SHALL BE INSTALLED A MINIMUM OF 5 FEET BELOW PROPOSED GRADE UNLESS OTHERWISE NOTED.
- F. CONTRACTOR SHALL COORDINATE WITH THE CITY OF HAMMOND WATER DEPARTMENT FOR CONNECTION TO THE EXISTING WATER SERVICE.
- G. CONTRACTOR SHALL COORDINATE WITH THE CITY OF HAMMOND SEWER DEPARTMENT FOR CONNECTION TO THE EXISTING SEWER.
- H. WHEN EXCAVATING NEAR UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING, BRACING, OR SHORING AS REQUIRED TO PREVENT DAMAGE TO UTILITIES.
- I. CONTRACTOR SHALL DEFLECT THE WATER MAIN TO AVOID CONFLICTS WITH THE SANITARY AND STORM SEWERS. THE MAXIMUM SEPARATION BETWEEN THE WATER MAIN AND THE SEWER SHALL BE MAINTAINED.
- J. GAS MAIN INSTALLATION AND CONNECTION SHALL BE COORDINATED WITH NIPSCO.



Proposed Storm Sewer
See Grading Plan

Water Utility
Proposed 8" Water Main

MATCHLINE SEE SHEET UTILITY PLAN 03

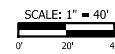
MATCHLINE SEE SHEET UTILITY PLAN 02

MAINTENANCE FACILITY UTILITY PLAN

Scale: 1"=40'-0"

UTILITY LEGEND

- New Water Main
- New Gas Main
- New Sanitary Sewer
- Ex. Water Main
- Ex. Sanitary Sewer
- Ex. Gas Main



PLOT DATE: 7/19/2017 11:28:54 PM JKJELIMA



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DYER TO HAMMOND, INDIANA

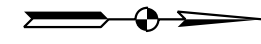
DESIGNED:	JKH
DRAWN:	DPH
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6109

NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**MAINTENANCE FACILITY UTILITY PLAN
FACILITY**

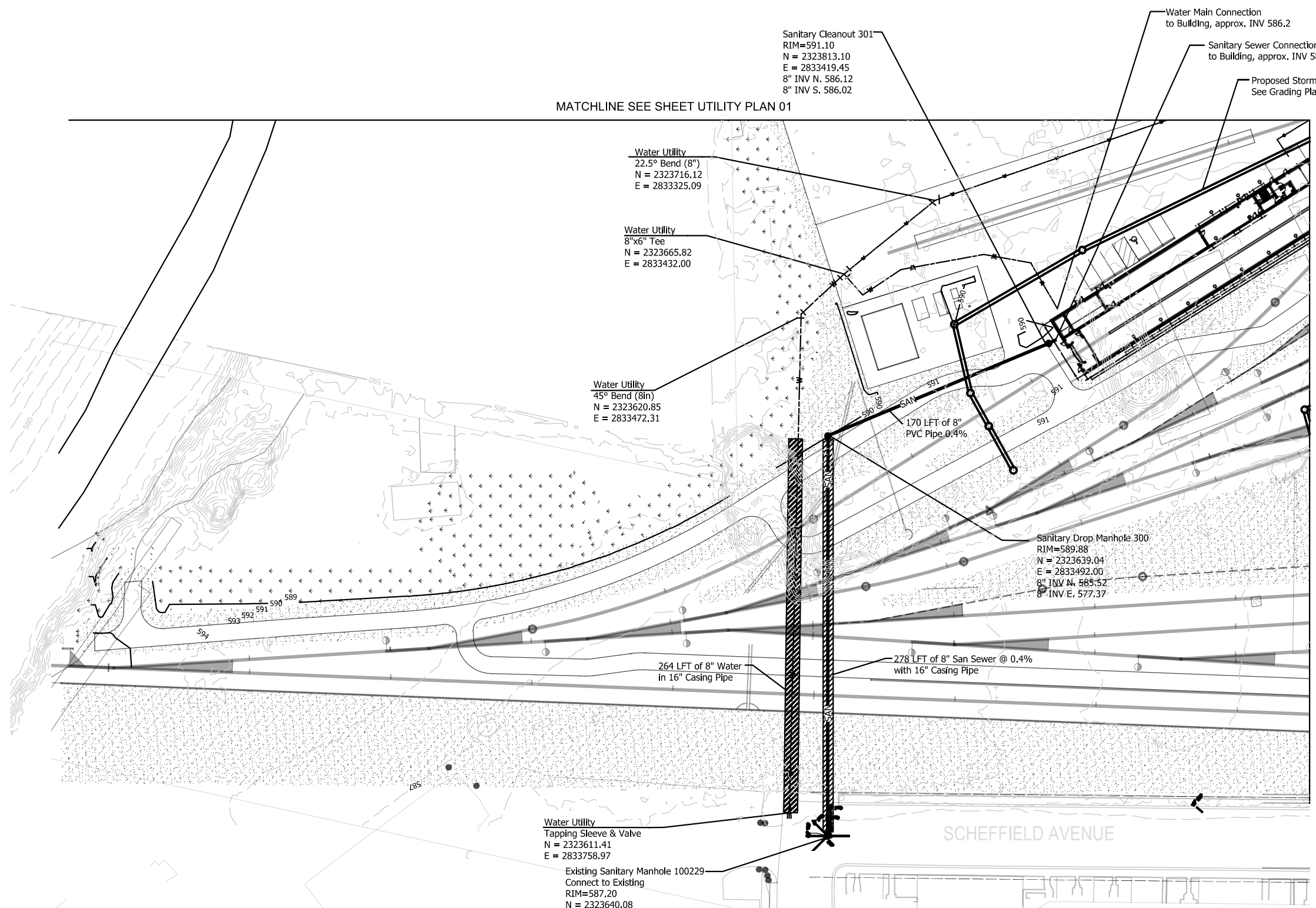
FILENAME	SHT_WL_FA_HMFS_UT_01.dgn	SHEET	270 OF 361
SCALE	AS NOTED		



GENERAL UTILITY NOTES

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- J. GAS MAIN INSTALLATION AND CONNECTION SHALL BE COORDINATED WITH NIPSCO.

MATCHLINE SEE SHEET UTILITY PLAN 01



MATCHLINE SEE SHEET UTILITY PLAN 04

UTILITY LEGEND

- New Water Main
- New Gas Main
- New Sanitary Sewer
- Ex. Water Main
- Ex. Sanitary Sewer
- Ex. Gas Main

SCALE: 1" = 40'

MAINTENANCE FACILITY UTILITY PLAN
Scale: 1"=40'-0"

PLOT DATE: 7/19/2017 11:29:16 PM JKJELIMA

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WEST LAKE
CORRIDOR
DYER TO HAMMOND, INDIANA

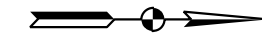
DESIGNED:	JKH
DRAWN:	DPH
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6110

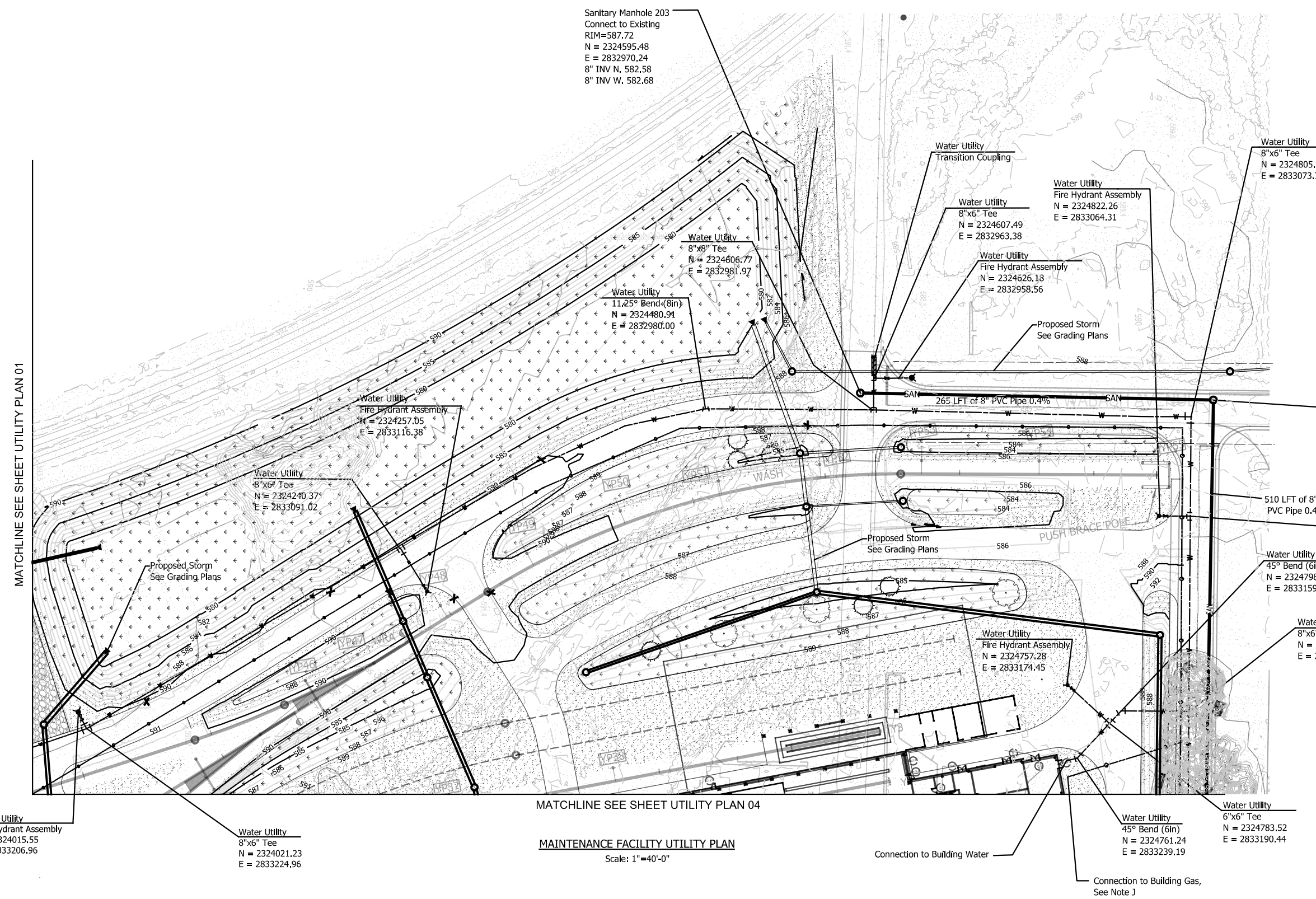
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

**MAINTENANCE FACILITY UTILITY PLAN
FACILITY**

FILENAME	SHT_WL_FA_HMFS_UT_02.dgn	SHEET	271 OF 361
SCALE	AS NOTED		



- GENERAL UTILITY NOTES**
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 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF HAMMOND SEWER DEPARTMENT FOR CONNECTION TO THE EXISTING SEWER.
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 - GAS MAIN INSTALLATION AND CONNECTION SHALL BE COORDINATED WITH NIPSCO.



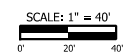
MATCHLINE SEE SHEET UTILITY PLAN 01

MATCHLINE SEE SHEET UTILITY PLAN 04

MAINTENANCE FACILITY UTILITY PLAN
Scale: 1"=40'-0"

UTILITY LEGEND

	New Water Main
	New Gas Main
	New Sanitary Sewer
	Ex. Water Main
	Ex. Sanitary Sewer
	Ex. Gas Main



PLOT DATE: 7/19/2017 11:29:39 PM JKJEL/MA

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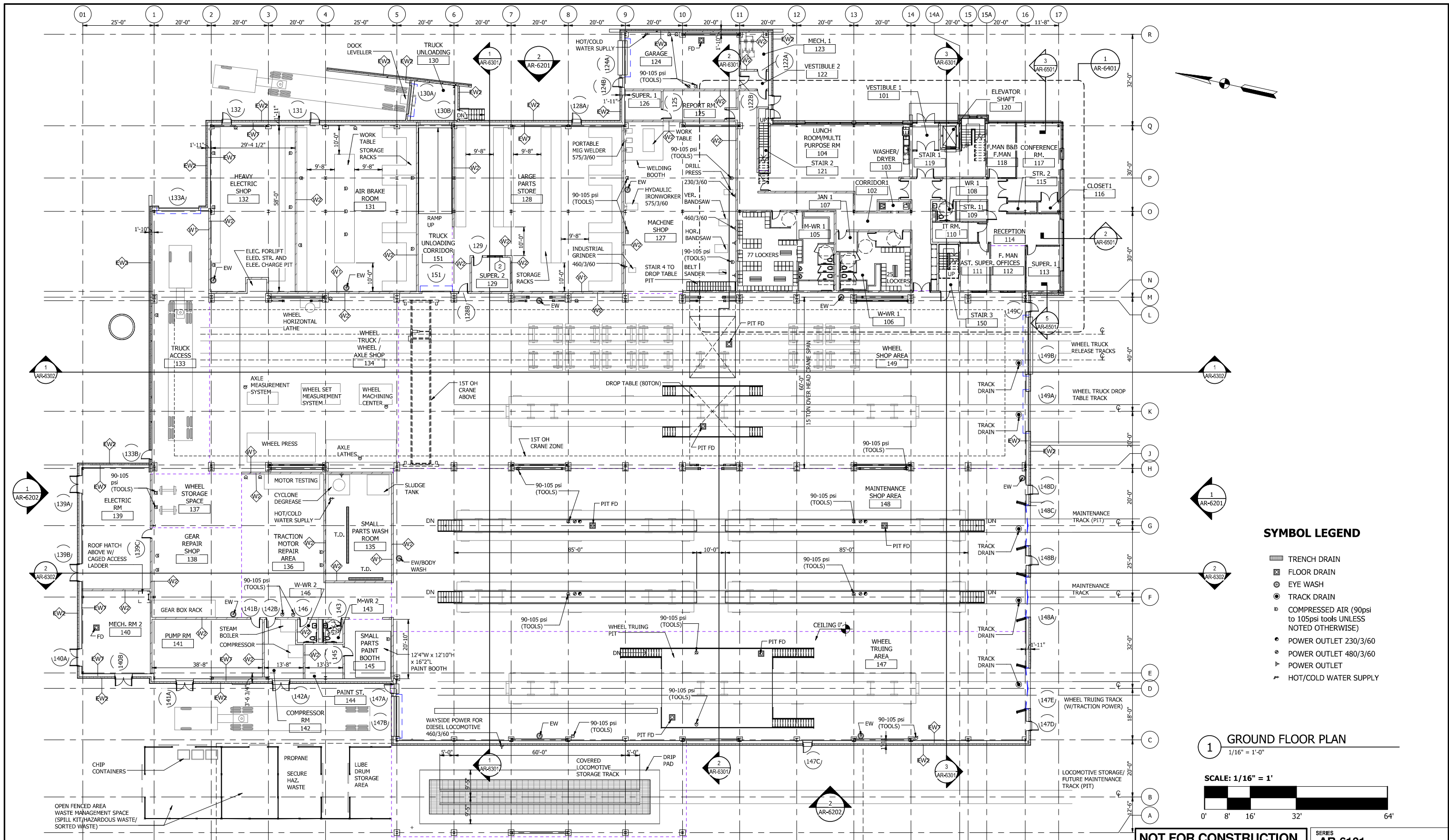
WEST LAKE CORRIDOR
DYER TO HAMMOND, INDIANA

DESIGNED:	JKH
DRAWN:	DPH
CHECKED:	CGH
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES C-6111
NICTD - WEST LAKE CORRIDOR - MP WL 61.38 TO WL 69.18
SINGLE TRACK

MAINTENANCE FACILITY UTILITY PLAN FACILITY

FILENAME	SHT_WL_FA_HMFS_UT_03.dgn	SHEET	272 OF 361
SCALE	AS NOTED		



- SYMBOL LEGEND**
- ▬ TRENCH DRAIN
 - ⊠ FLOOR DRAIN
 - ⊙ EYE WASH
 - ⊖ TRACK DRAIN
 - ⊕ COMPRESSED AIR (90psi to 105psi tools UNLESS NOTED OTHERWISE)
 - ⊖ POWER OUTLET 230/3/60
 - ⊖ POWER OUTLET 480/3/60
 - ⊖ POWER OUTLET
 - ⊖ HOT/COLD WATER SUPPLY

1 GROUND FLOOR PLAN
 1/16" = 1'-0"
 SCALE: 1/16" = 1'

NOT FOR CONSTRUCTION SERIES AR-6101



DYER TO HAMMOND, INDIANA

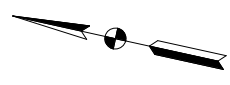
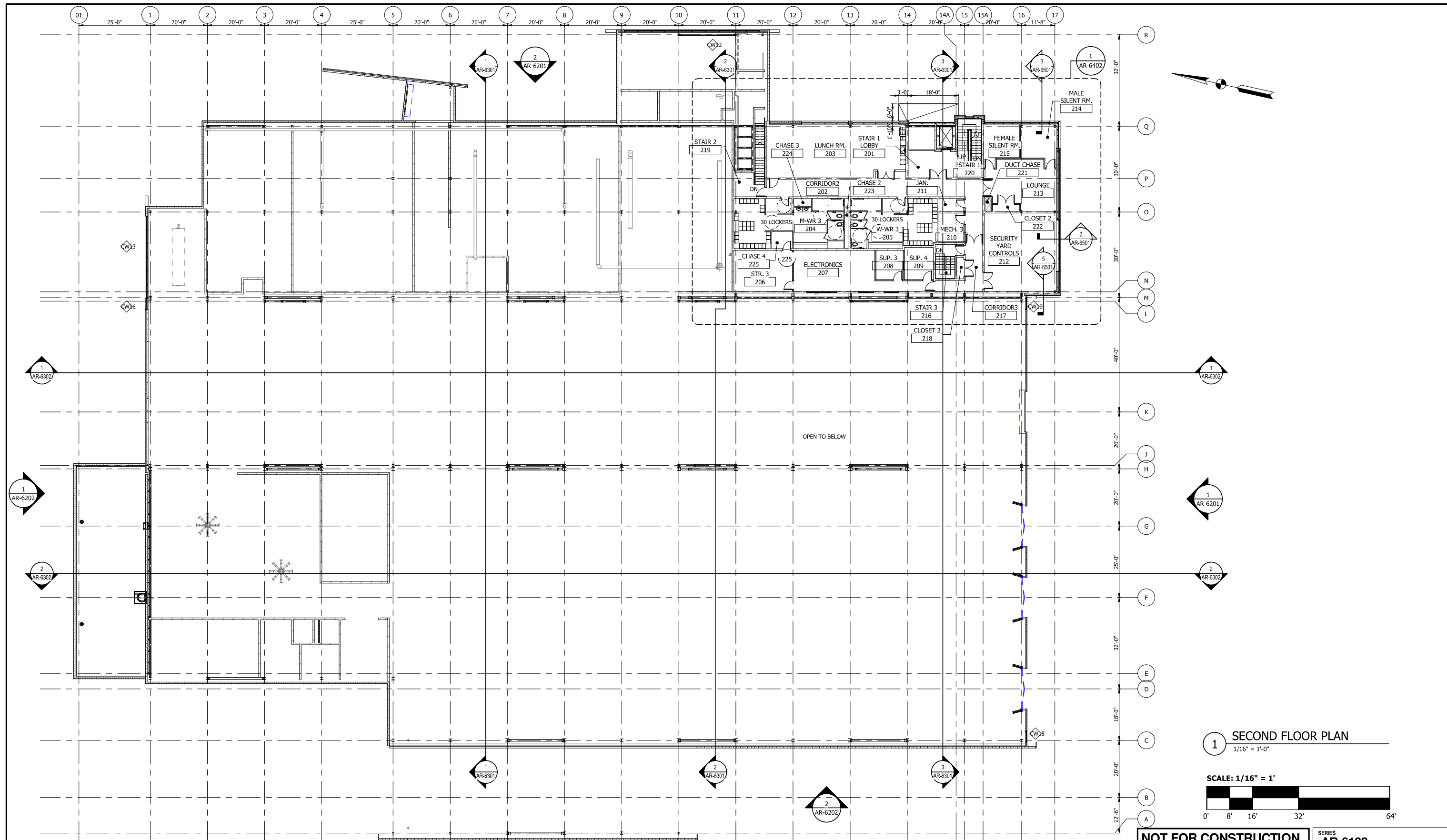
DESIGNED: S.CHERIAN
 DRAWN: E.WANG
 CHECKED: J.HUANG/J.SPENCE
 DATE: 07/21/17

OVERALL GROUND FLOOR PLAN

FILENAME	SHEET
SCALE 1/16" = 1'-0"	274 OF 361

PLOT DATE: 7/19/2017 9:29:52 AM

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1 SECOND FLOOR PLAN
 1/16" = 1'-0"
SCALE: 1/16" = 1'
 0' 8' 16' 32' 64'

NOT FOR CONSTRUCTION SERIES **AR-6102**

NICTD - WEST LAKE CORRIDOR - MP WL 68.45
 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY

OVERALL SECOND FLOOR PLAN

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17
FILENAME	SHT_WL_AR_HAMMSF_PL_02
SCALE	1/16" = 1'-0"
SHEET	275 OF 361

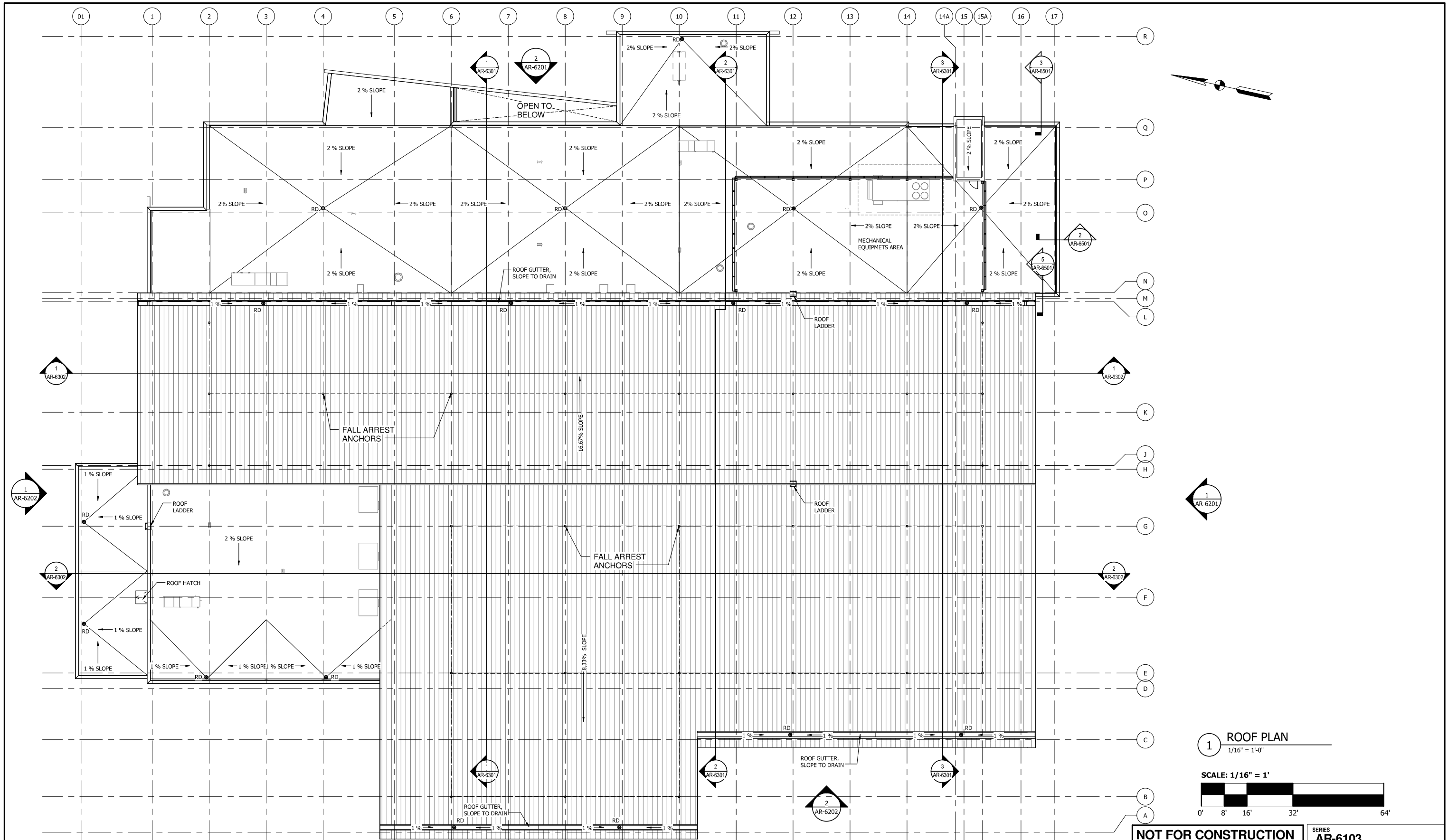
PLOT DATE: 7/19/2017 9:29:53 AM



ISSUE	DATE	DESCRIPTION



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1 ROOF PLAN
 1/16" = 1'-0"
 SCALE: 1/16" = 1'
 0' 8' 16' 32' 64'

NOT FOR CONSTRUCTION SERIES **AR-6103**

DESIGNED: S.CHERIAN	NICTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY ROOF PLAN	FILENAME	SHEET 276 OF 361
DRAWN: E.WANG		SCALE	
CHECKED: J.HUANG/J.SPENCE		1/16" = 1'-0"	
DATE: 07/21/17			



ISSUE	DATE	DESCRIPTION

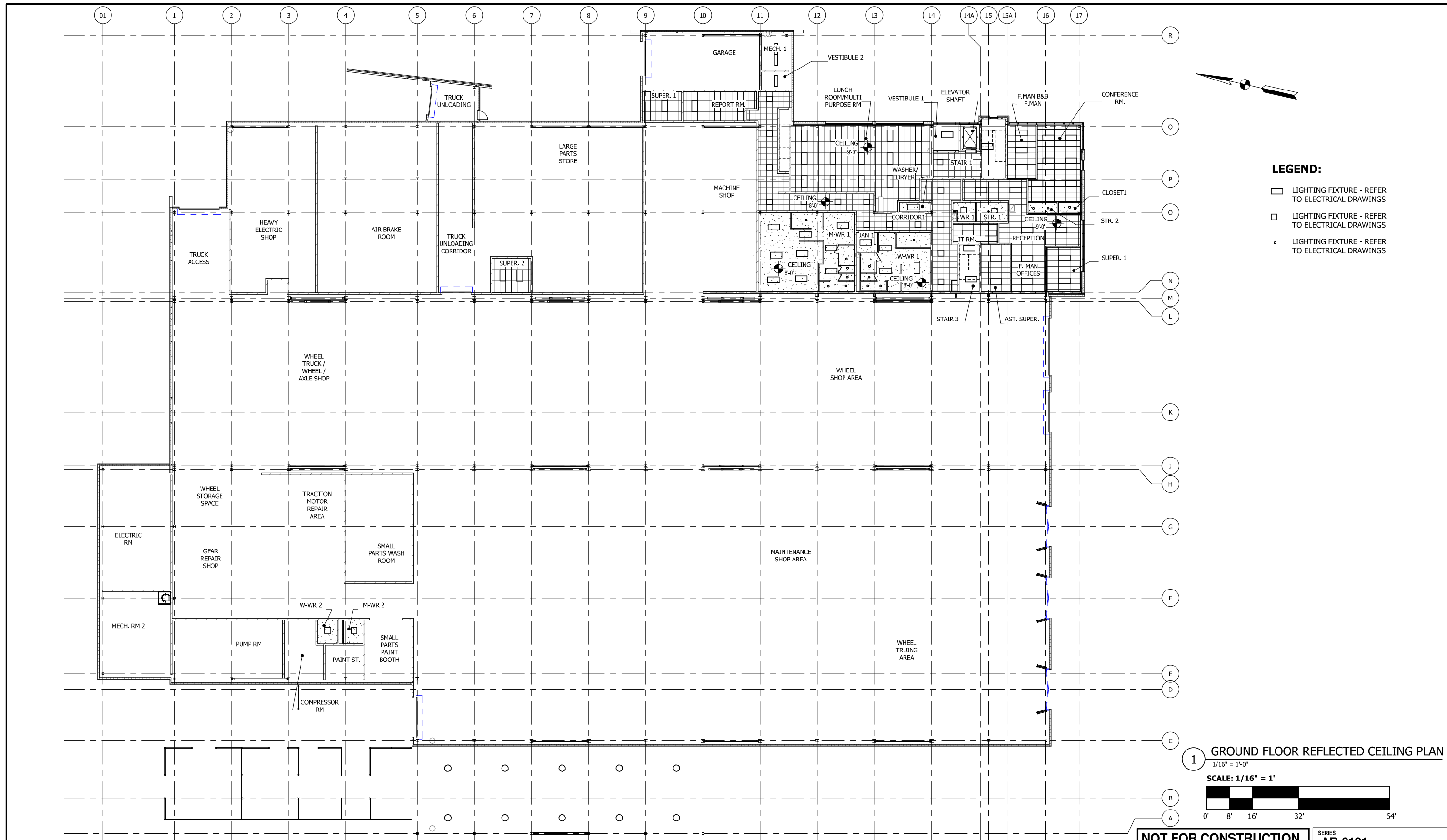
NICTD
 NORTHERN INDIANA COMMUTER
 TRANSPORTATION DISTRICT
 33 East Highway 12
 Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

PLOT DATE: 7/19/2017 9:38:59 AM

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LEGEND:

- LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS
- ▣ LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS

1 GROUND FLOOR REFLECTED CEILING PLAN
 1/16" = 1'-0"
 SCALE: 1/16" = 1'

NOT FOR CONSTRUCTION SERIES **AR-6121**

PLOT DATE: 7/19/2017 10:45:26 AM



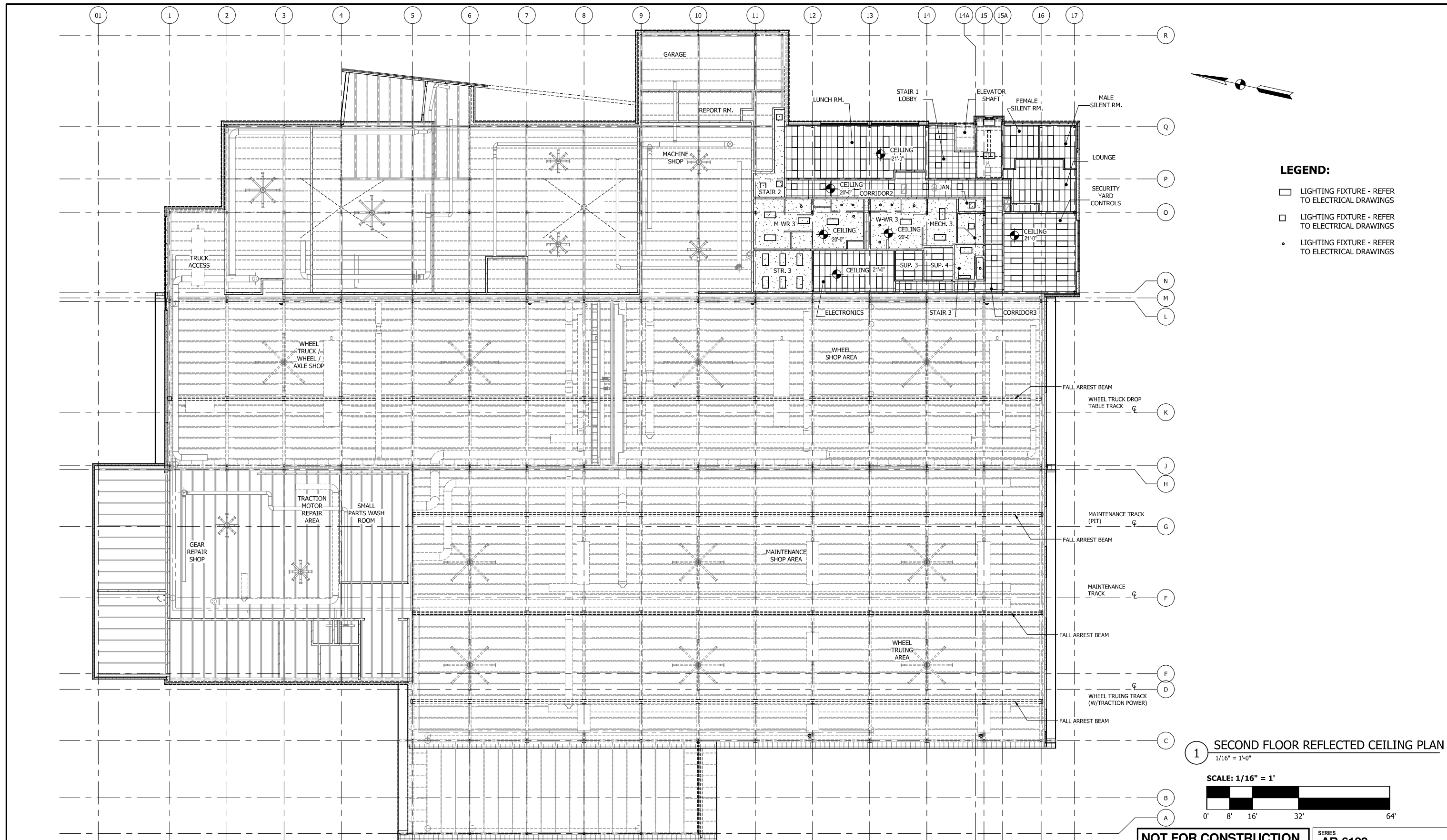
ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

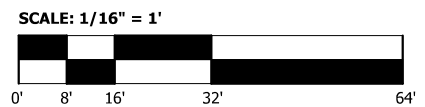
DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY REFLECTED CEILING PLAN - GROUND FLOOR	
FILENAME	SHEET
SCALE	277 OF 361
SCALE	1/16" = 1'-0"



- LEGEND:**
- LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS
 - LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS
 - LIGHTING FIXTURE - REFER TO ELECTRICAL DRAWINGS

1 SECOND FLOOR REFLECTED CEILING PLAN
1/16" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-6122

PLOT DATE: 7/19/2017 10:45:29 AM



ISSUE	DATE	DESCRIPTION

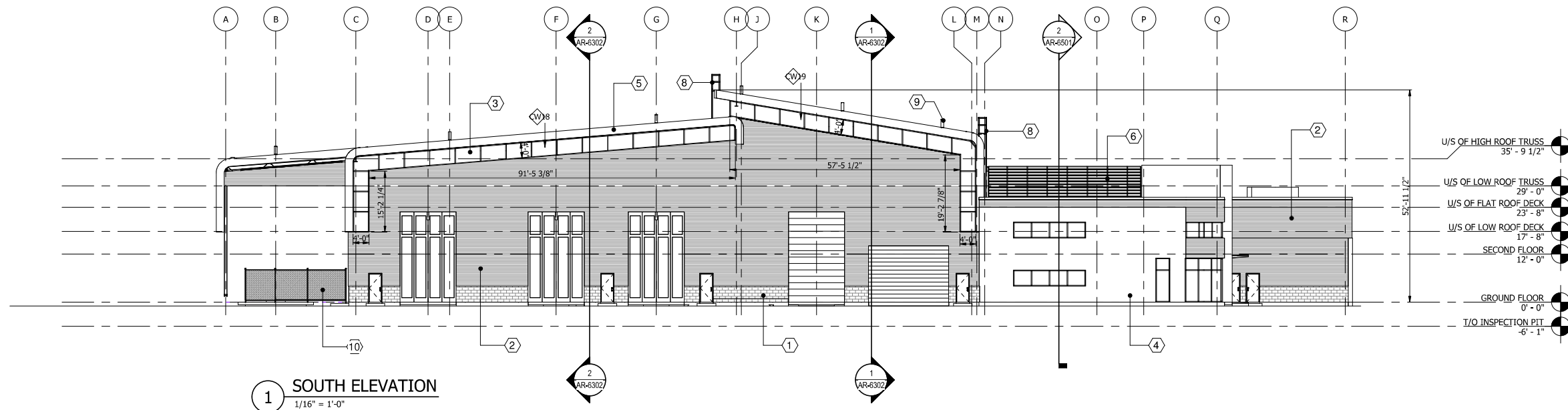


DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

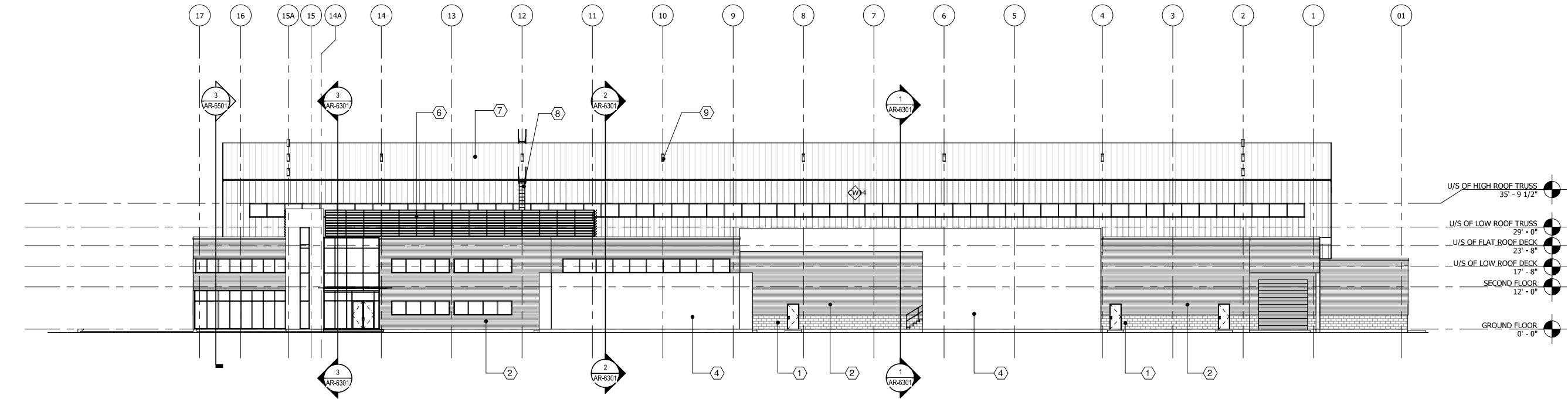
NICTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY	
REFLECTED CEILING PLAN - SECOND FLOOR	
FILENAME	SHEET
SCALE: 1/16" = 1'-0"	278 OF 361

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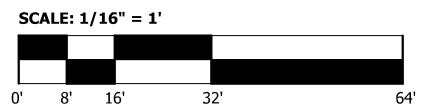


1 SOUTH ELEVATION
1/16" = 1'-0"

MATERIAL LIST1	
Mark	Description
1	CONCRETE BLOCK
2	INSULATED METAL WALL PANEL
3	CURTAIN WALL SYSTEM
4	PRECAST CONCRETE PANEL
5	ALUMINUM ROOF FACIA
6	ALUMINUM LOUVER SCREEN
7	INSULATED METAL ROOF PANEL
8	ROOF ACCESS LADDER
9	FALL ARREST ANCHOR
10	METAL FENCE



2 EAST ELEVATION
1/16" = 1'-0"



NOT FOR CONSTRUCTION SERIES **AR-6201**



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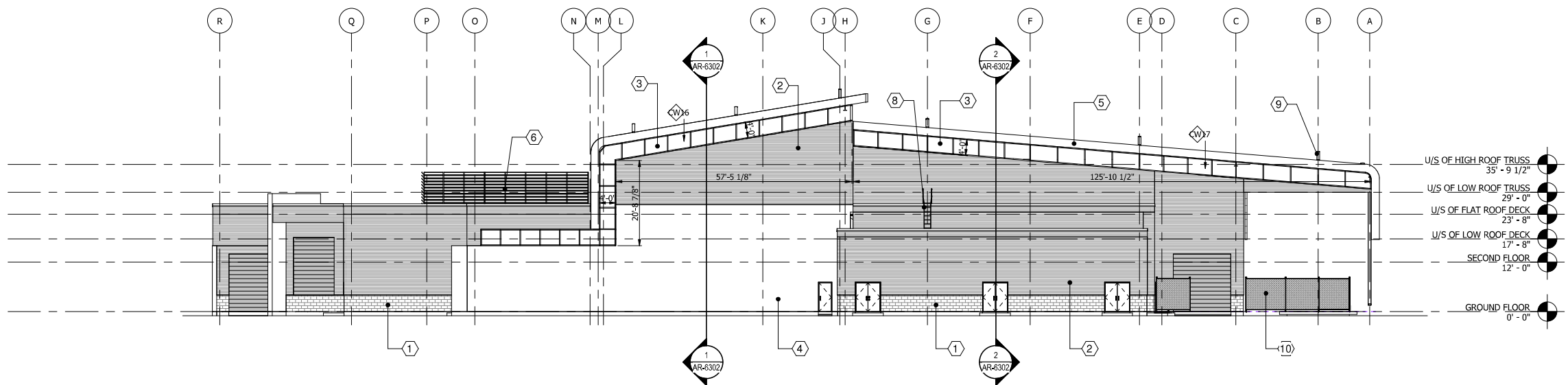
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY	
SOUTH AND EAST ELEVATIONS	
FILENAME	SHEET
SCALE	1/16" = 1'-0"
279 OF 361	

PLOT DATE: 7/19/2017 10:45:33 AM

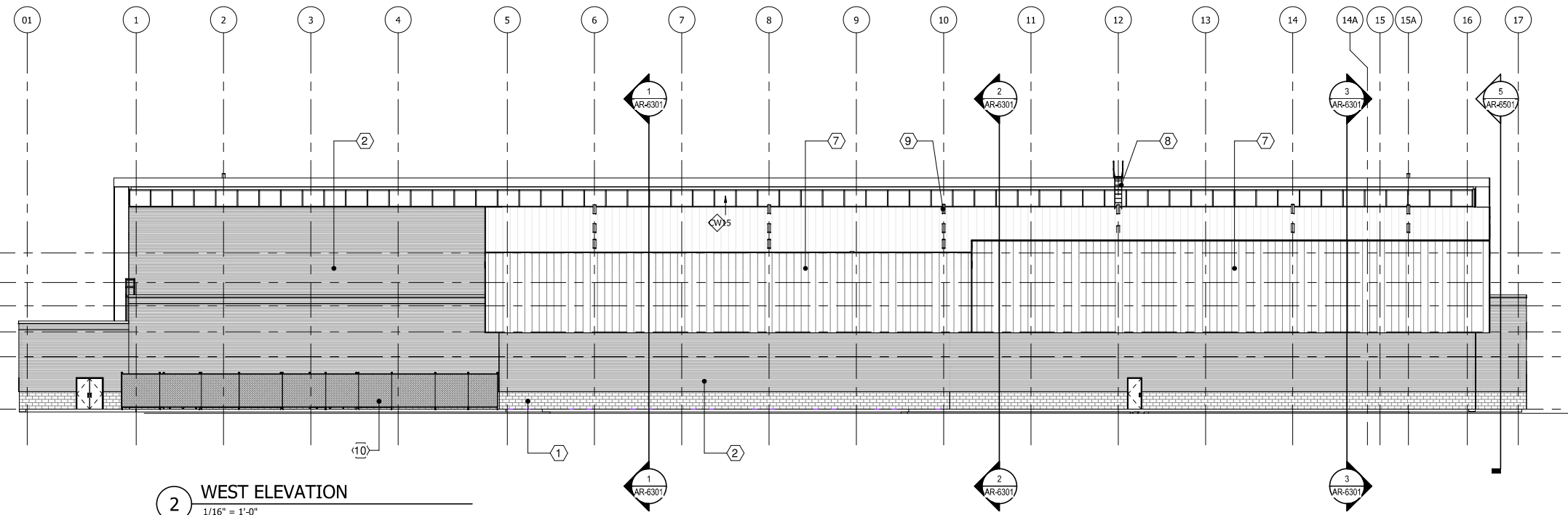
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1 NORTH ELEVATION
1/16" = 1'-0"

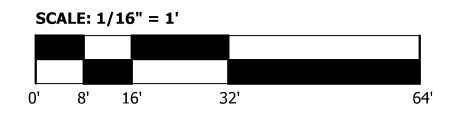
MATERIAL LIST 1	
Mark	Description
1	CONCRETE BLOCK
2	INSULATED METAL WALL PANEL
3	CURTAIN WALL SYSTEM
4	PRECAST CONCRETE PANEL
5	ALUMINUM ROOF FACIA
6	ALUMINUM LOUVER SCREEN
7	INSULATED METAL ROOF PANEL
8	ROOF ACCESS LADDER
9	FALL ARREST ANCHOR
10	METAL FENCE

- U/S OF HIGH ROOF TRUSS 35' - 9 1/2"
- U/S OF LOW ROOF TRUSS 29' - 0"
- U/S OF FLAT ROOF DECK 23' - 8"
- U/S OF LOW ROOF DECK 17' - 8"
- SECOND FLOOR 12' - 0"
- GROUND FLOOR 0' - 0"



2 WEST ELEVATION
1/16" = 1'-0"

- U/S OF HIGH ROOF TRUSS 35' - 9 1/2"
- U/S OF LOW ROOF TRUSS 29' - 0"
- U/S OF FLAT ROOF DECK 23' - 8"
- U/S OF LOW ROOF DECK 17' - 8"
- SECOND FLOOR 12' - 0"
- GROUND FLOOR 0' - 0"



NOT FOR CONSTRUCTION SERIES AR-6202

NICTD - WEST LAKE CORRIDOR - MP WL 68.45
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
NORTH AND WEST ELEVATIONS

PLOT DATE: 7/19/2017 10:45:35 AM



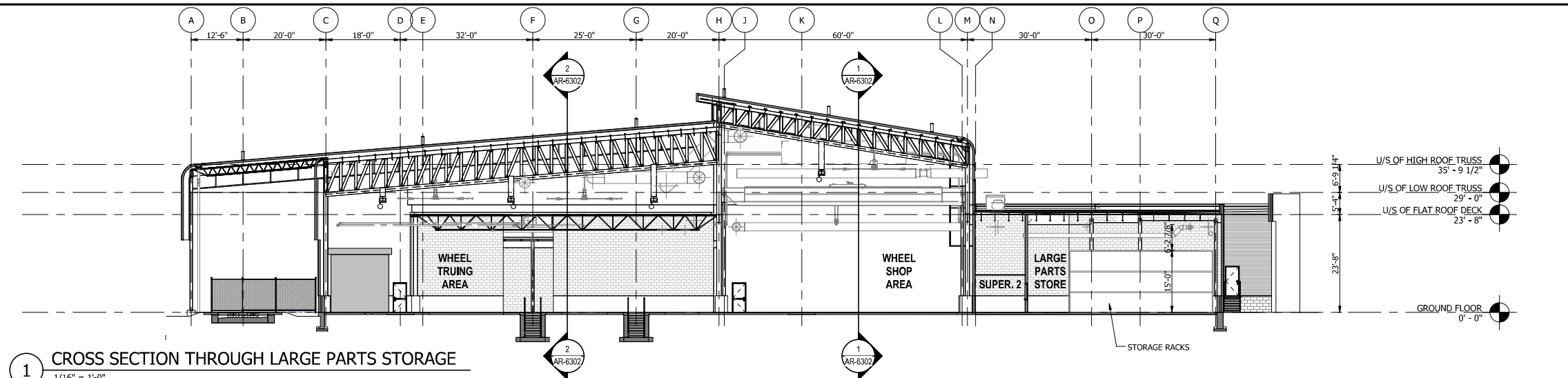
ISSUE	DATE	DESCRIPTION



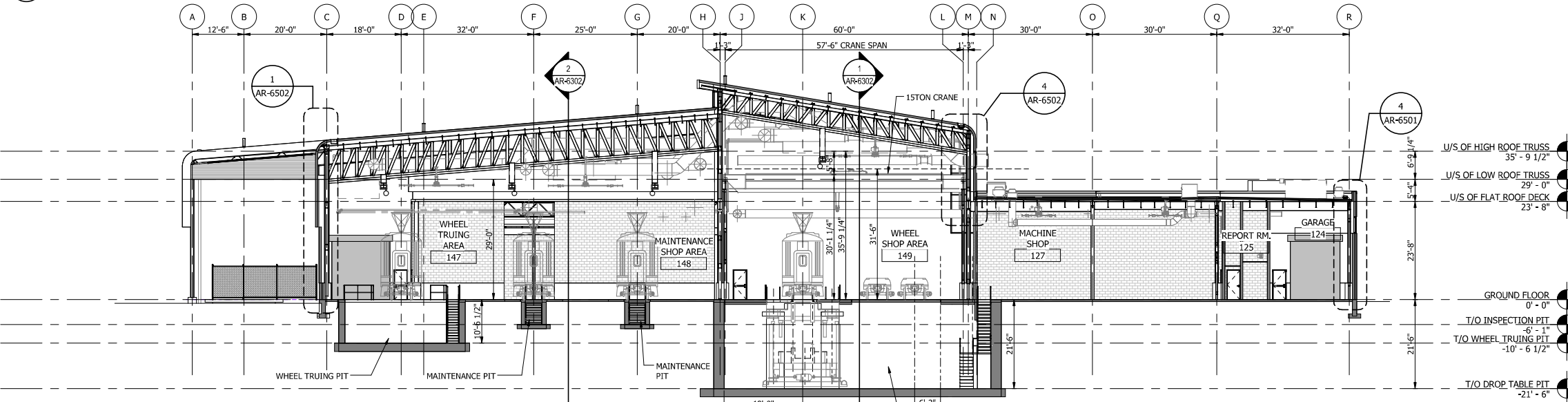
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

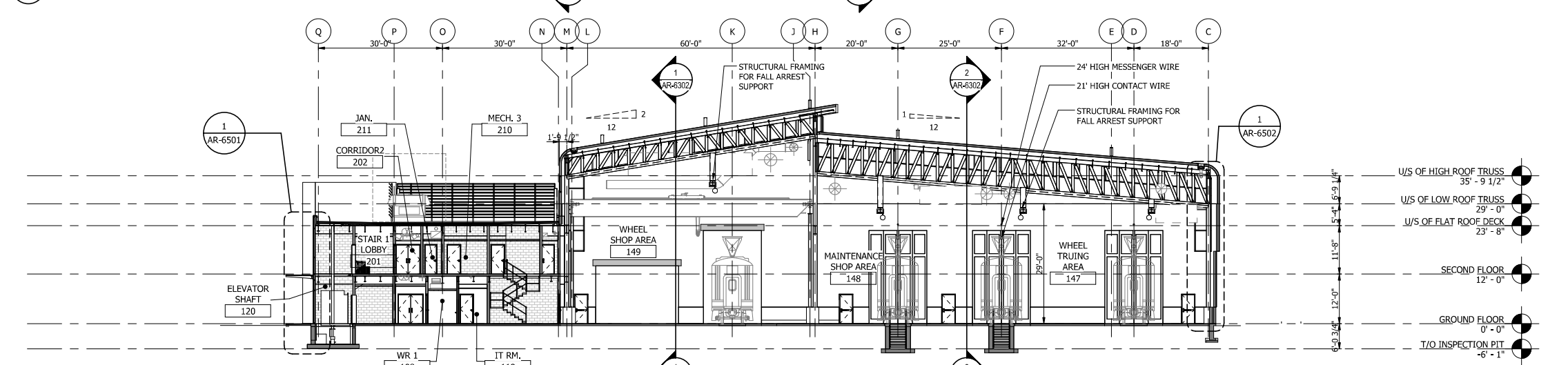
FILENAME	SHEET
SCALE	1/16" = 1'-0"
280 OF 361	



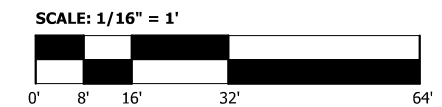
1 CROSS SECTION THROUGH LARGE PARTS STORAGE
1/16" = 1'-0"



2 CROSS SECTION THROUGH PIT
1/16" = 1'-0"



3 CROSS SECTION THROUGH OFFICE
1/16" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-6301



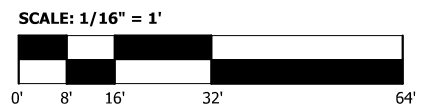
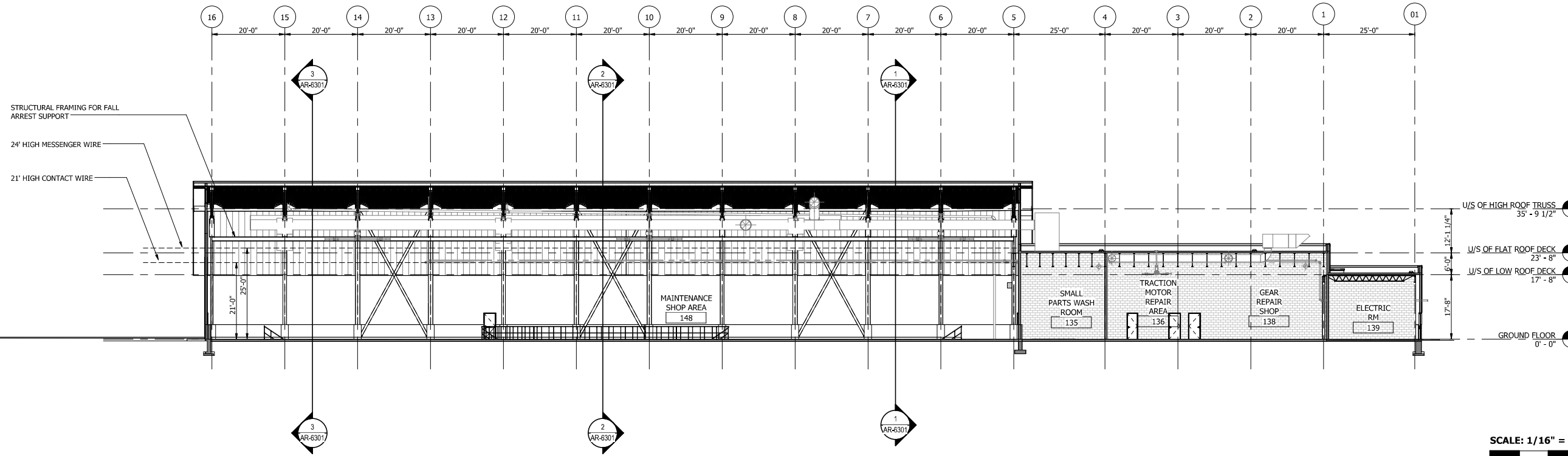
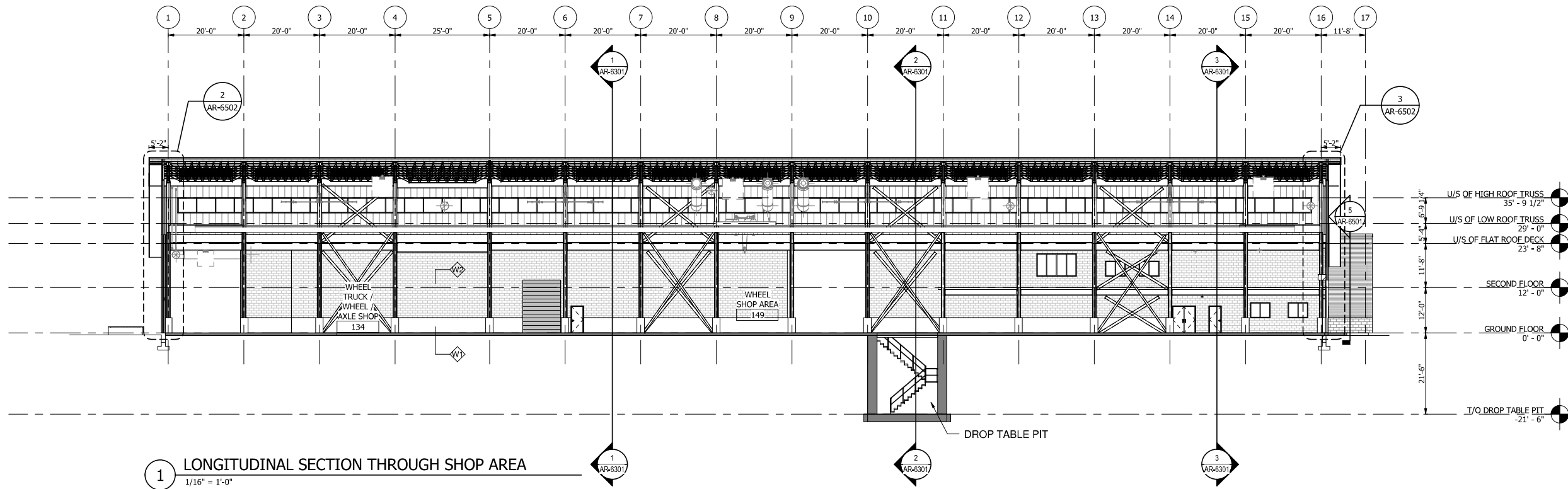
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY	
CROSS SECTIONS	
FILENAME	SHEET
SCALE	281 OF 361

PLOT DATE: 7/19/2017 9:30:09 AM

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NOT FOR CONSTRUCTION SERIES AR-6302



DYER TO HAMMOND, INDIANA

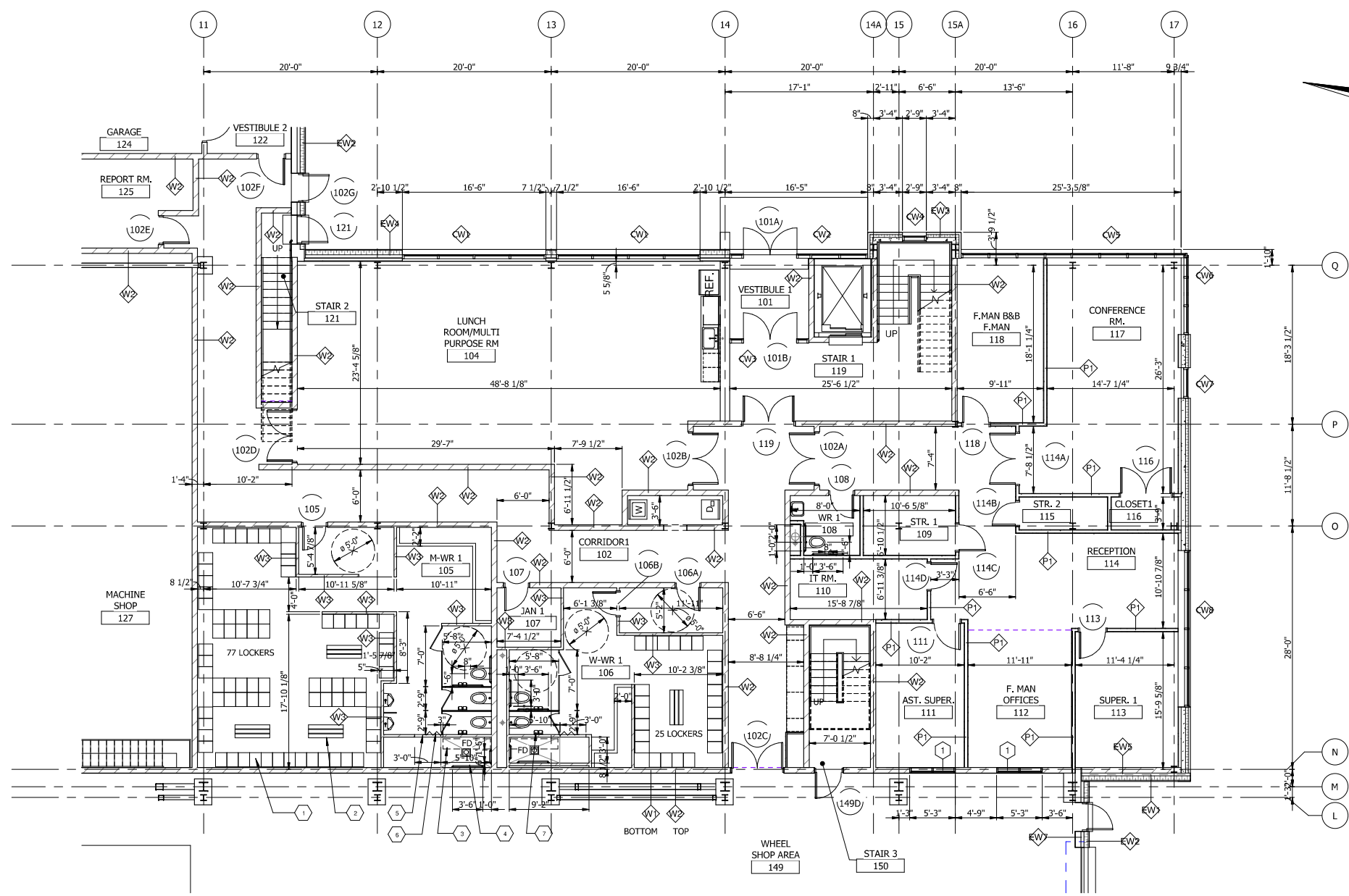
DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.45
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
LONGITUDINAL SECTIONS

FILENAME		SHEET	
SCALE	1/16" = 1'-0"		282 OF 361

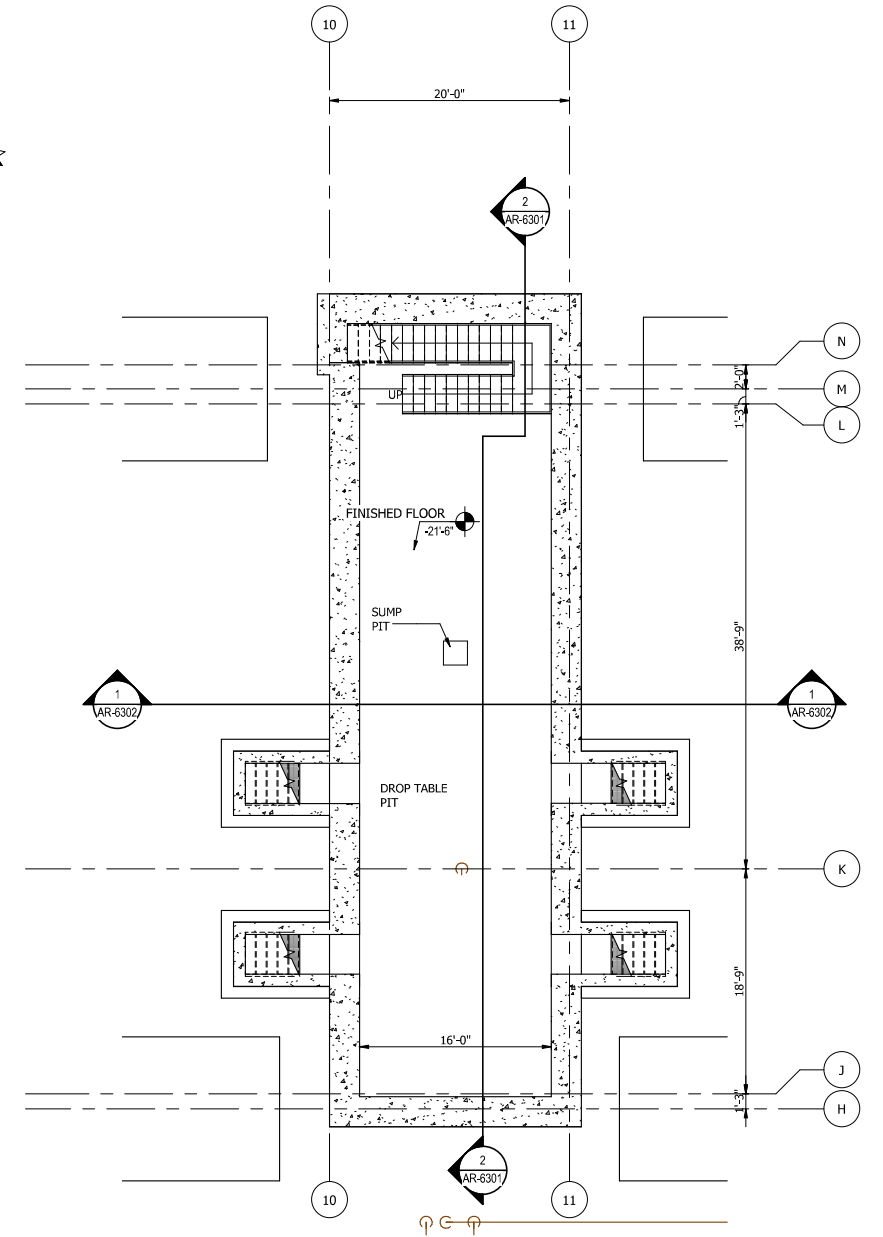
PLOT DATE: 7/19/2017 9:30:20 AM

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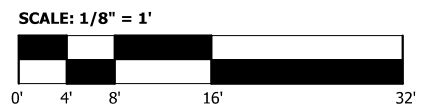


1 GROUND FLOOR ENLARGED PLAN - OFFICE AREA
1/8" = 1'-0"

WASHROOM SCHEDULE	
Tag	Text
1	LOCKER
2	BENCH
3	FOLDING TYPE SHOWER SEAT, TOP OF SEAT 17" - 19" ABOVE FINISH FLOOR
4	33"-36" HIGH GRAB BAR ABOVE FINISH FLOOR
5	1/2" HIGH MAX. SHOWER THRESHOLDS
6	SHOWER CURTAIN
7	TOILET PAPER DISPENSER



2 DROP TABLE PIT PLAN
1/8" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-6401

DESIGNED: S.CHERIAN
DRAWN: E.WANG
CHECKED: J.HUANG/J.SPENCE
DATE: 07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
GROUND FLOOR ENLARGED PLANS - OFFICE AREA AND DROP TABLE PIT

FILENAME: SHEET: 283 OF 361
SCALE: 1/8" = 1'-0"

PLOT DATE: 7/19/2017 9:30:21 AM



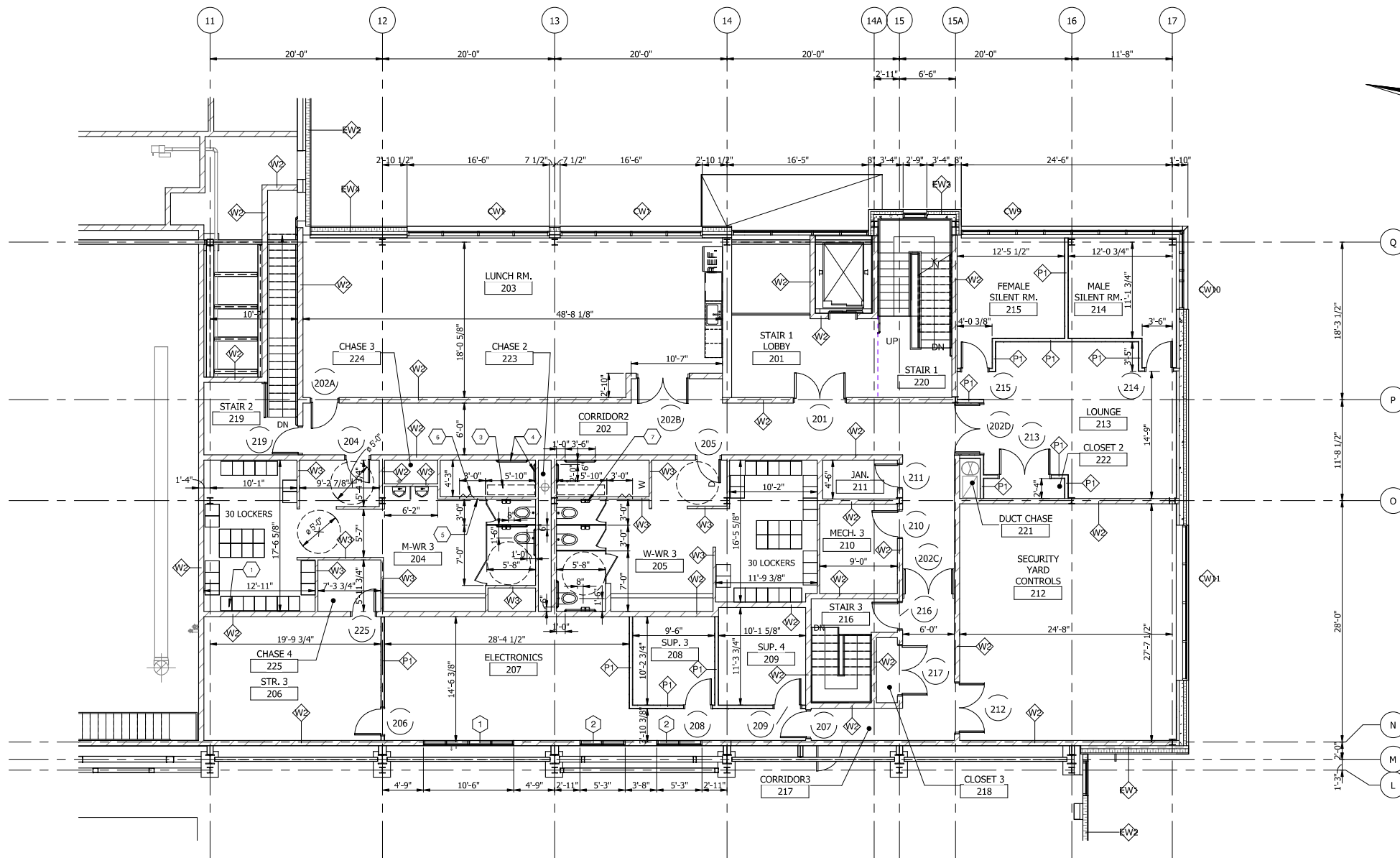
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ISSUE	DATE	DESCRIPTION

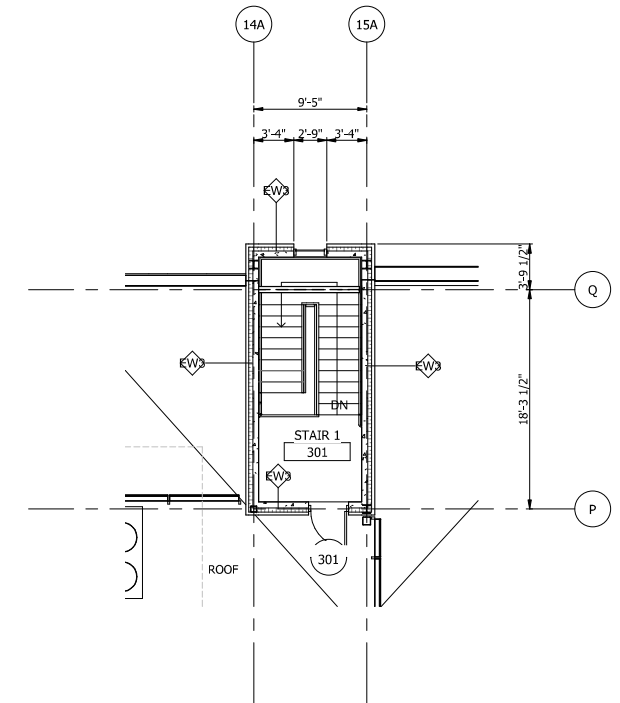


DYER TO HAMMOND, INDIANA

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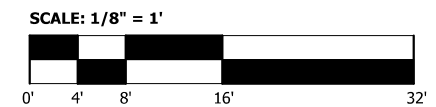


1 SECOND FLOOR ENLARGED PLAN - OFFICE AREA
1/8" = 1'-0"



2 STAIR 1 ROOF LEVEL PLAN
1/8" = 1'-0"

WASHROOM SCHEDULE	
Tag	Text
1	LOCKER
2	BENCH
3	FOLDING TYPE SHOWER SEAT, TOP OF SEAT 17" ± 19" ABOVE FINISH FLOOR
4	33"-36" HIGH GRAB BAR, ABOVE FINISH FLOOR
5	1/2" HIGH MAX. SHOWER THRESHOLDS
6	SHOWER CURTAIN
7	TOILET PAPER DISPENSER



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33 East Highway 12
Chesterton, Indiana 46304



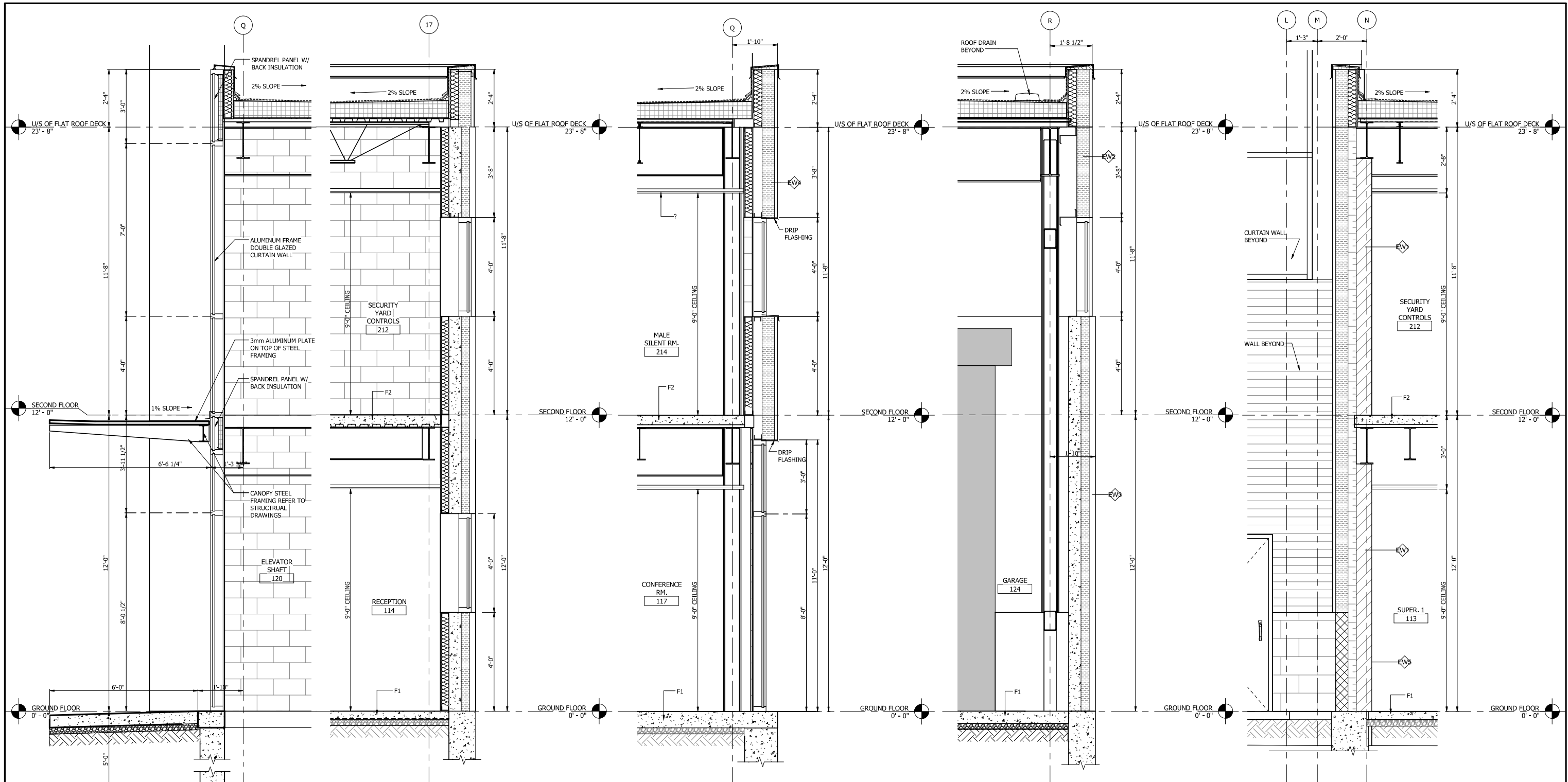
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY SECOND FLOOR ENLARGED PLAN AND STAIR 1 ROOF LEVEL PLAN	
FILENAME	SHEET
SCALE	284 OF 361

PLOT DATE: 7/19/2017 9:30:22 AM

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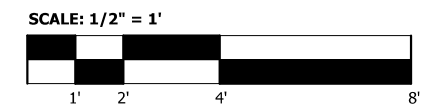
1 WALL SECTION THROUGH ELEVATOR
AR-6301 1/2" = 1'-0"

2 WALL SECTION THROUGH CLOSET
AR-6101 1/2" = 1'-0"

3 WALL SECTION THROUGH CONFERENCE RM
AR-6101 1/2" = 1'-0"

4 WALL SECTION THROUGH GARAGE
AR-6301 1/2" = 1'-0"

5 WALL SECTION THROUGH SUPERINT. 1
AR-6101 1/2" = 1'-0"



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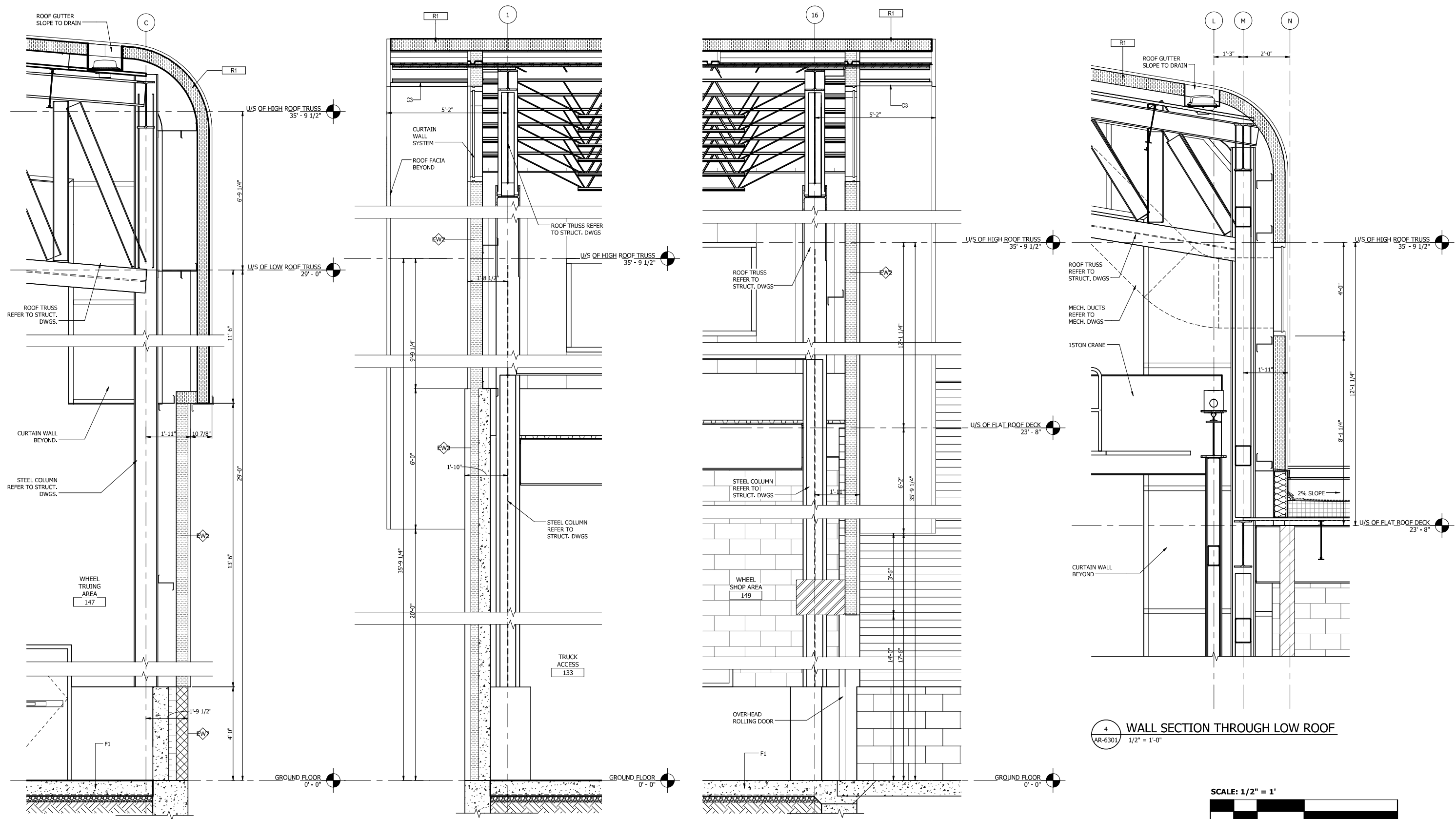
DYER TO HAMMOND, INDIANA

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DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY	
WALL SECTIONS	
FILENAME	SHEET
SCALE	285 OF 361

PLOT DATE: 7/19/2017 9:30:25 AM

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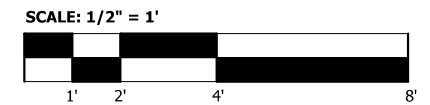


1 WALL SECTION THROUGH WHEEL TRUING
AR-6301 1/2" = 1'-0"

2 WALL SECTION THROUGH TRUCK ACCESS AREA
AR-6302 1/2" = 1'-0"

3 WALL SECTION THROUGH WHEEL SHOP AREA
AR-6302 1/2" = 1'-0"

4 WALL SECTION THROUGH LOW ROOF
AR-6301 1/2" = 1'-0"



PLOT DATE: 7/19/2017 9:30:26 AM



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CHECKED:	J. HUANG / J. SPENCE
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES AR-6502

NICTD - WEST LAKE CORRIDOR - MP WL 68.45
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
WALL SECTIONS

FILENAME		SHEET	286 OF 361
SCALE	1/2" = 1'-0"		

ROOM FINISH SCHEDULE																
NO.	NAME	AREA	FLOOR		WALLS						CEILING		NOTES			
			FINISH	BASE	NORTH		EAST		SOUTH		WEST					
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
GROUND FLOOR																
101	VESTIBULE 1	86 SF	RF	RB			GL		CONC BLK	P	CONC BLK.	P	ACP			
102	CORRIDOR1	1050 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP			
103	WASHER/ DRYER	37 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	GWB	P		
104	LUNCH ROOM/MULTI PURPOSE RM	1196 SF	RF	RB	CONC BLK	P	GWB	P	CONC BLK	P	CONC BLK.	P	ACP			
105	M-WR 1	917 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
106	W-WR 1	387 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
107	JAN 1	50 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	GWB	P		
108	WR 1	49 SF	CT	CT	CONC BLK	P	CONC BLK	P	GWB	P	GWB	P	MR-GWB	P		
109	STR. 1	73 SF	RF	RB	GWB	P	CONC BLK	P	GWB	P	GWB	P	ACP			
110	IT RM.	109 SF	RF	RB	CONC BLK	P	GWB	P	GWB	P	CONC BLK./GWB	P	ACP			
111	AST. SUPER.	169 SF	RF	RB	CONC BLK	P	GWB	P	GWB	P	GWB	P	ACP			
112	F. MAN OFFICES	189 SF	RF	RB	GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP			
113	SUPER. 1	185 SF	RF	RB	GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP			
114	RECEPTION	497 SF	RF	RB	GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP			
115	STR. 2	38 SF	RF	RB												
116	CLOSET1	29 SF	RF	RB	GWB	P	GWB	P	GWB	P	GWB	P	ACP			
117	CONFERENCE RM.	439 SF	RF	RB	GWB	P	GL		GWB/GL	P	GWB	P	ACP			
118	F.MAN B&B F.MAN	191 SF	RF	RB	GWB	P			GWB	P	CONC BLK.	P	ACP			
119	STAIR 1	330 SF	CONC		CONC BLK	P	PRECAST CONC	P	CONC BLK	P	CONC BLK.	P	EXP			
120	ELEVATOR SHAFT	63 SF	CONC		CONC BLK	P	GL		CONC BLK	P	CONC BLK.	P	EXP			
121	STAIR 2	75 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK/METAL/CONC	P	CONC BLK.	P	EXP			
122	VESTIBULE 2	61 SF	CONC		CONC BLK	P	PRECAST CONC		METAL/CONC	P	CONC BLK.	P	EXP			
123	MECH. 1	126 SF	CONC		CONC BLK	P	PRECAST CONC		METAL/CONC	P	CONC BLK.	P	EXP			
124	GARAGE	797 SF	CONC		METAL/CONC	P	PRECAST CONC		CONC BLK	P	CONC BLK.	P	EXP			
125	REPORT RM.	245 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP			
126	SUPER. 1	132 SF	RF	RB	METAL/CONC	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP			
127	MACHINE SHOP	2342 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK./CONC	P	EXP			
128	LARGE PARTS STORE	3260 SF	CONC		CONC BLK	P	METAL/CONC	P	CONC BLK/METAL/CONC	P	CONC BLK./CONC	P	EXP			
129	SUPER. 2	163 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK./CONC	P	ACP			
130	TRUCK UNLOADING	196 SF	CONC		METAL		PRECAST CONC		METAL		METAL		EXP			
131	AIR BRAKE ROOM	2444 SF	CONC		CONC BLK	P	METAL/CONC	P	CONC BLK	P	CONC BLK./CONC	P	EXP			
132	HEAVY ELECTRIC SHOP	1693 SF	CONC		CONC BLK/METAL/CONC	P	METAL/CONC	P	CONC BLK	P	CONC BLK./CONC	P	EXP			
133	TRUCK ACCESS	1850 SF	CONC		PRECAST CONC		METAL/CONC	P	CONC BLK/CONC	P			EXP			
134	WHEEL TRUCK / WHEEL / AXLE SHOP	4177 SF	CONC				CONC BLK/CONC	P			CONC BLK./CONC	P	EXP			
135	SMALL PARTS WASH ROOM	863 SF	CONC		CONC BLK	P	CONC BLK/CONC	P	CONC BLK/CONC	P	CONC BLK.	P	EXP			
136	TRACTION MOTOR REPAIR AREA	1745 SF	CONC				CONC BLK/CONC	P	CONC BLK	P	CONC BLK.	P	EXP			
137	WHEEL STORAGE SPACE	590 SF	CONC		CONC BLK	P							EXP			
138	GEAR REPAIR SHOP	985 SF	CONC		CONC BLK	P					CONC BLK.	P	EXP			
139	ELECTRIC RM	1015 SF	CONC		METAL/CONC	P	METAL/CONC	P	CONC BLK	P	CONC BLK.	P	EXP			
140	MECH. RM 2	695 SF	CONC		METAL/CONC	P	CONC BLK	P	CONC BLK	P	METAL/CONC	P	EXP			
141	PUMP RM	805 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	METAL/CONC	P	EXP			
142	COMPRESSOR RM	261 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	METAL/CONC	P	EXP			
143	M-WR 2	56 SF	CT		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
144	PAINT ST.	160 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	METAL/CONC	P	EXP			
145	SMALL PARTS PAINT BOOTH	342 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	METAL/CONC	P	EXP			
146	W-WR 2	55 SF	CT		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
147	WHEEL TRUING AREA	8449 SF	CONC		CONC BLK/METAL/CONC	P			METAL/CONC	P	METAL/CONC	P	EXP			
148	MAINTENANCE SHOP AREA	12650 SF														
149	WHEEL SHOP AREA	13495 SF	CONC				CONC BLK/CONC	P	METAL/CONC	P			EXP			
150	STAIR 3	116 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK./CONC	P	EXP			
151	TRUCK UNLOADING CORRIDOR	699 SF	CONC		CONC BLK	P	METAL		CONC BLK	P	CONC BLK./CONC	P	EXP			
SECOND FLOOR																
201	STAIR 1 LOBBY	161 SF	RF	RB	PRECAST CONC		GL		CONC BLK	P	CONC BLK.	P	ACP			
202	CORRIDOR2	598 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP			
203	LUNCH RM.	870 SF	RF	RB	CONC BLK	P	GWB	P	PRECAST CONC		CONC BLK.	P	ACP			
204	M-WR 3	579 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
205	W-WR 3	506 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		
206	STR. 3	294 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	EXP			
207	ELECTRONICS	482 SF	RF	RB	GWB	P	CONC BLK	P	GWB	P	CONC BLK.	P	ACP			
208	SUP. 3	97 SF	RF	RB	GWB	P	CONC BLK	P	GWB	P	GWB	P	ACP			
209	SUP. 4	115 SF	RF	RB	GWB	P	CONC BLK	P	CONC BLK	P	GWB	P	ACP			
210	MECH. 3	93 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	GWB	P		
211	JAN.	39 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	MR-GWB	P		

ROOM FINISH SCHEDULE																
NO.	NAME	AREA	FLOOR		WALLS						CEILING		NOTES			
			FINISH	BASE	NORTH		EAST		SOUTH		WEST					
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH				
212	SECURITY YARD CONTROLS	689 SF	RF	RB			CONC BLK	P	GWB	P	GWB	P	CONC BLK.	P	ACP	
213	LOUNGE	369 SF	RF	RB			GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP	
214	MALE SILENT RM.	159 SF	RF	RB			GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP	
215	FEMALE SILENT RM.	159 SF	RF	RB			CONC BLK	P	GWB	P	GWB	P	GWB	P	ACP	
216	STAIR 3	96 SF	MTL				CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P		
217	CORRIDOR3	138 SF	RF	RB			CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP	
218	CLOSET 3	18 SF	RF	RB			CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P	ACP	
219	STAIR 2	173 SF	CONC				CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P		
220	STAIR 1	178 SF	CONC				CONC BLK	P	PRECAST CONC		CONC BLK	P	CONC BLK.	P		
221	DUCT CHASE	11 SF	RF	RB			CONC BLK	P	GWB	P	GWB	P	CONC BLK.	P	ACP	
222	CLOSET 2	22 SF	RF	RB			GWB	P	GWB	P	GWB	P	CONC BLK.	P	ACP	
223	CHASE 2	26 SF	CONC				CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P		
224	CHASE 3	17 SF	CONC				CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P		
225	CHASE 4	44 SF	CONC				CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK.	P		
U/S OF FLAT ROOF DECK																
301	STAIR 1	175 SF	CONC				PRECAST CONC		PRECAST CONC		PRECAST CONC		PRECAST CONC		EXP	

LEGEND AND ABBREVIATIONS

- ACP ACCUSTICAL CEILING PANEL
- BLK BLOCK
- CONC CONCRETE
- CONC BLK CONCRETE BLOCK
- CT CERAMIC TILE
- GWB GYPSUM WALL BOARD
- MTL METAL
- P PAINT
- RB RESILIENT BASE
- RF RESILIENT FLOORING
- GL GLASS
- MR-GWB MOISTURE RESISTANT GYPSUM WALL BOARD
- EXP EXPOSED

PLOT DATE: 7/19/2017 9:30:27 AM



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DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

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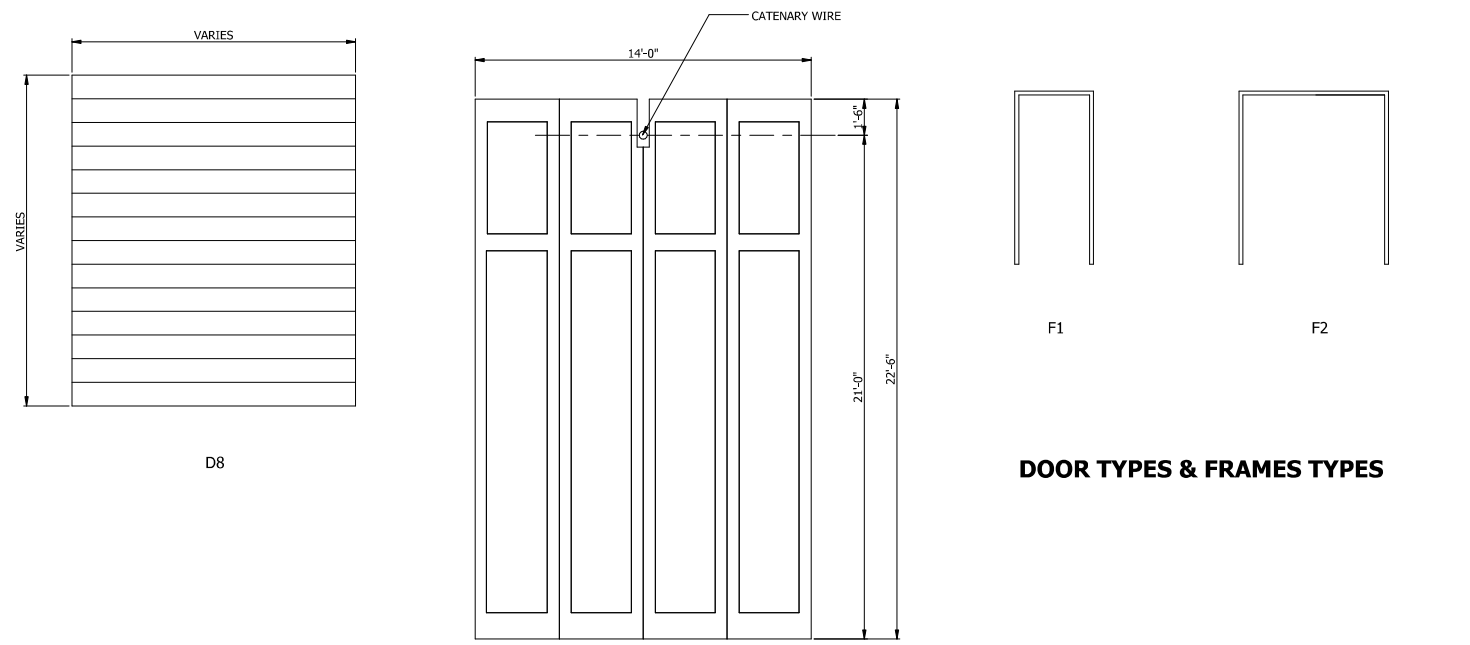
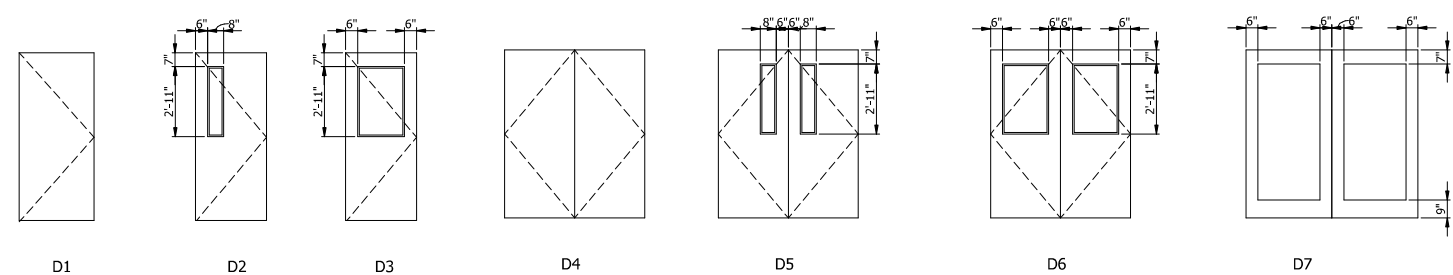
NICD - WEST LAKE CORRIDOR - MP WL 68.45
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
ROOM FINISH SCHEDULE

FILENAME		SHEET	287 OF 361
SCALE	1/4" = 1'-0"		

DOOR AND FRAME SCHEDULE												
IDENTIFICATION	DIMENSIONS			FRAME			GLAZING	HARDWARE			NOTES	
	ROOM NO.	DOOR NO.	W1	HEIGHT	T	TYPE		MATERIAL	FINISH	TYPE		MATERIAL
GROUND FLOOR												
101	101A	6'-2"	8'-0"	0'-2"	D7	ALUM.						EXTERIOR CURTAIN WALL CW2
101	101B	6'-2"	7'-10"	0'-2"	D7	ALUM.						INTERIOR CURTAIN WALL CW3
102	102A	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
102	102B	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
102	102C	6'-2"	7'-2"	0'-2"	D5	HM			F2	HM	PT	
102	102D	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
102	102E	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
102	102F	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
102	102G	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
105	105	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	EXTERIOR
106	106A	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
106	106B	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
107	107	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
108	108	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
111	111	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
113	113	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
114	114A	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
114	114B	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
114	114C	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
114	114D	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
116	116	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	
118	118	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
119	119	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
121	121	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
122	122A	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
122	122B	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
124	124A	12'-0"	14'-0"	0'-3"	D8							EXTERIOR
124	124B	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
125	125	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
128	128A	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
128	128B	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
129	129	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
130	130A	10'-0"	14'-0"	0'-3"	D8							EXTERIOR
130	130B	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
131	131	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
132	132	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
133	133A	14'-0"	14'-0"	0'-3"	D8							EXTERIOR
133	133B	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
139	139A	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	EXTERIOR
139	139B	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	EXTERIOR
139	139C	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
140	140A	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	EXTERIOR
140	140B	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	EXTERIOR
141	141A	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	EXTERIOR
141	141B	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
142	142A	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	
142	142B	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	EXTERIOR
143	143	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
145	145	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
146	146	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
147	147A	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
147	147B	14'-0"	14'-0"	0'-3"	D8							EXTERIOR
147	147C	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
147	147D	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
147	147E	14'-0"	22'-6"	0'-2"	D9							EXTERIOR
148	148A	14'-0"	22'-6"	0'-2"	D9							EXTERIOR
148	148B	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
148	148C	14'-0"	22'-6"	0'-2"	D9							EXTERIOR
148	148D	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
149	149A	14'-0"	22'-6"	0'-3"	D8							EXTERIOR
149	149B	20'-0"	14'-0"	0'-3"	D8							EXTERIOR
149	149C	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
149	149D	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	EXTERIOR
151	151	10'-0"	14'-0"	0'-3"	D8							
SECOND FLOOR												
201	201	6'-2"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
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202	202C	6'-0"	7'-2"	0'-2"	D5	HM			F2	HM	PT	
202	202D	6'-0"	7'-2"	0'-2"	D6	HM			F2	HM	PT	
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207	207	3'-4"	7'-2"	0'-2"	D3	HM			F1	HM	PT	
208	208	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
209	209	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
210	210	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
211	211	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
212	212	6'-0"	7'-2"	0'-2"	D5	HM			F2	HM	PT	
222	213	6'-2"	7'-2"	0'-2"	D4	HM			F2	HM	PT	
214	214	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
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216	216	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
217	217	6'-0"	7'-2"	0'-2"	D4	HM			F2	HM	PT	
219	219	3'-4"	7'-2"	0'-2"	D2	HM			F1	HM	PT	
225	225	3'-0"	7'-2"	0'-2"	D1	HM			F1	HM	PT	
U/S OF FLAT ROOF DECK												
	301	3'-4"	7'-2"	0'-2"	D1	HM			F1	HM	PT	EXTERIOR

WINDOW SCHEDULE					
TYPE	COUNT	HEIGHT	WIDTH	WINDOW AREA	NOTES
GROUND FLOOR					
1	2	4'-0"	5'-3"	21 SF	
2	1	4'-0"	5'-3"	21 SF	
SECOND FLOOR					
1	1	6'-0"	10'-6"	63 SF	
2	2	4'-0"	5'-3"	21 SF	
Grand total:	6				

CURTAIN WALL SCHEDULE					
Mark	Length	Height	Area	Count	Notes
CW1	16'-6"	4'-0"	66 SF	4	
CW2	16'-5"	26'-0"	413 SF	1	
CW3	9'-11 1/2"	8'-0"	73 SF	1	
CW4	2'-9"	29'-0"	80 SF	1	
CW5	26'-6 1/2"	11'-0"	285 SF	1	
CW6	9'-1"	11'-0"	100 SF	1	
CW7	3'-6"	11'-0"	39 SF	1	
CW8	18'-0"	4'-0"	72 SF	1	
CW9	26'-3"	4'-0"	103 SF	1	
CW10	9'-0 1/2"	4'-0"	36 SF	1	
CW11	18'-0"	4'-0"	72 SF	1	
CW12	47'-6"	4'-0"	190 SF	1	
CW13	28'-9 1/2"	4'-0"	115 SF	1	
CW14	300'-0"	4'-0"	1200 SF	1	
CW15	307'-11 1/2"	4'-0"	1232 SF	1	
CW16					REFER TO ELEVATION FOR DETAILS
CW17					REFER TO ELEVATION FOR DETAILS
CW18					REFER TO ELEVATION FOR DETAILS
CW19					REFER TO ELEVATION FOR DETAILS



DOOR TYPES & FRAMES TYPES

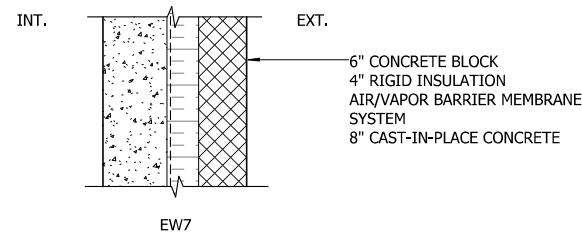
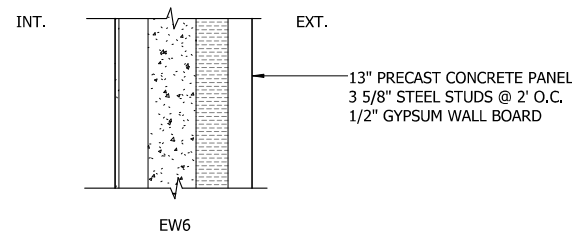
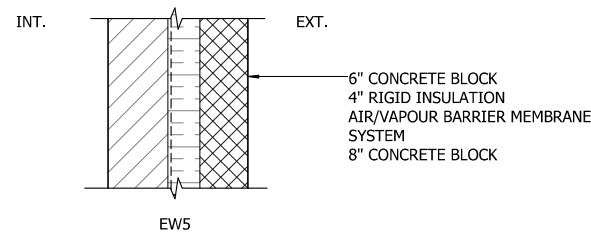
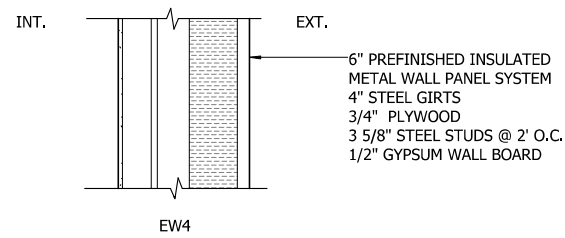
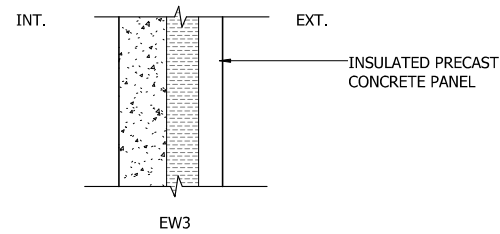
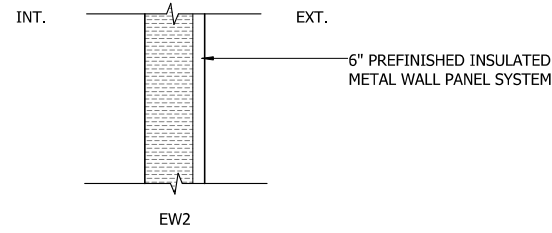
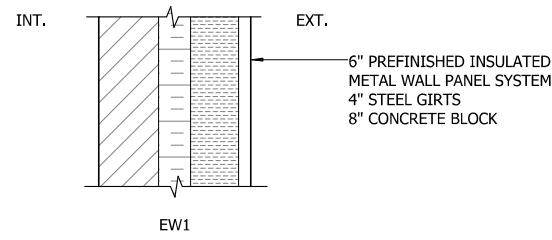
NOT FOR CONSTRUCTION SERIES AR-6602

DESIGNED: S.CHERIAN	NCCTD - WEST LAKE CORRIDOR - MP WL 68.45 HAMMOND YARD - MAINTENANCE & STORAGE FACILITY	DOOR AND WINDOW SCHEDULES
DRAWN: E.WANG		
CHECKED: J.HUANG/J.SPENCE		
DATE: 07/21/17	FILENAME	SHEET
	SCALE: 1/4" = 1'-0"	288 OF 361

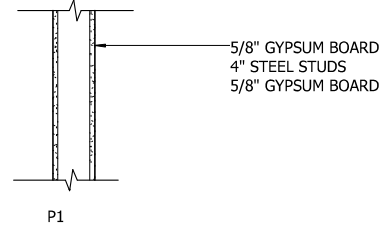
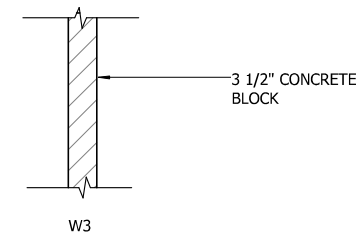
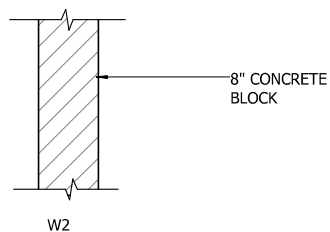
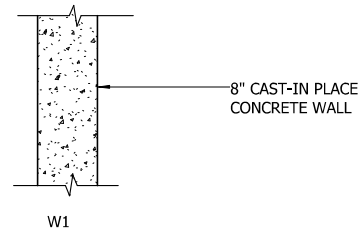
PLOT DATE: 7/19/2017 9:30:27 AM



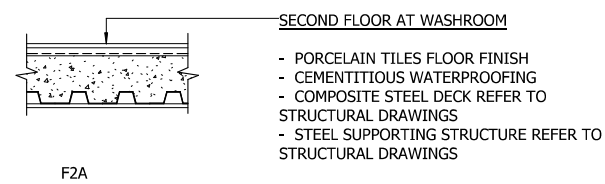
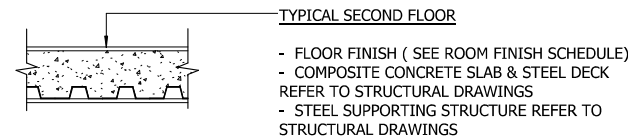
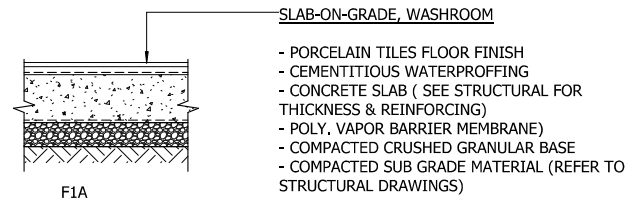
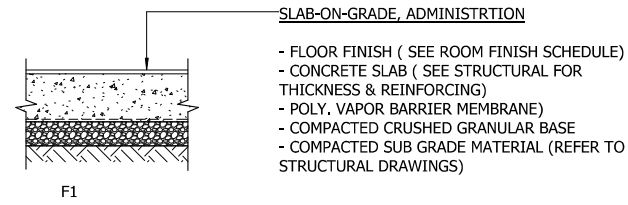
EXTERIOR WALL ASSEMBLIES



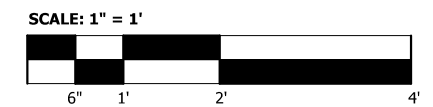
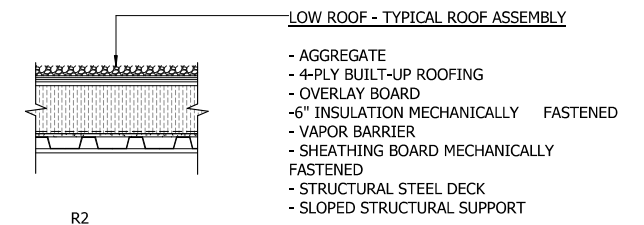
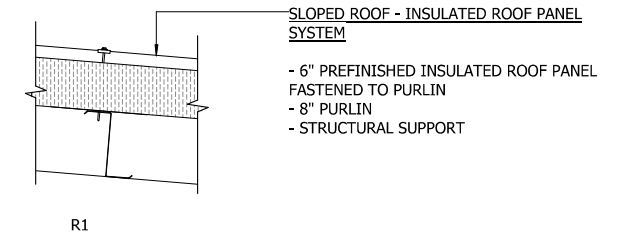
INTERIOR WALL ASSEMBLIES



FLOOR ASSEMBLIES



ROOF ASSEMBLIES



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NICTD - WEST LAKE CORRIDOR - MP WL 68.45
HAMMOND YARD - MAINTENANCE & STORAGE FACILITY
CONSTRUCTION ASSEMBLIES

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

FILENAME		SHEET	
SCALE	1" = 1'-0"		289 OF 361

PLOT DATE: 7/19/2017 9:30:27 AM

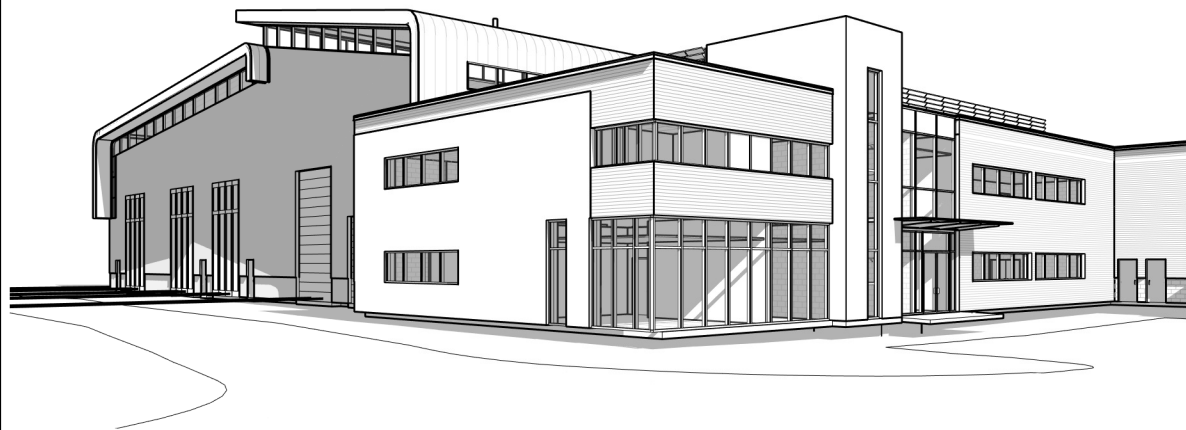


ISSUE	DATE	DESCRIPTION

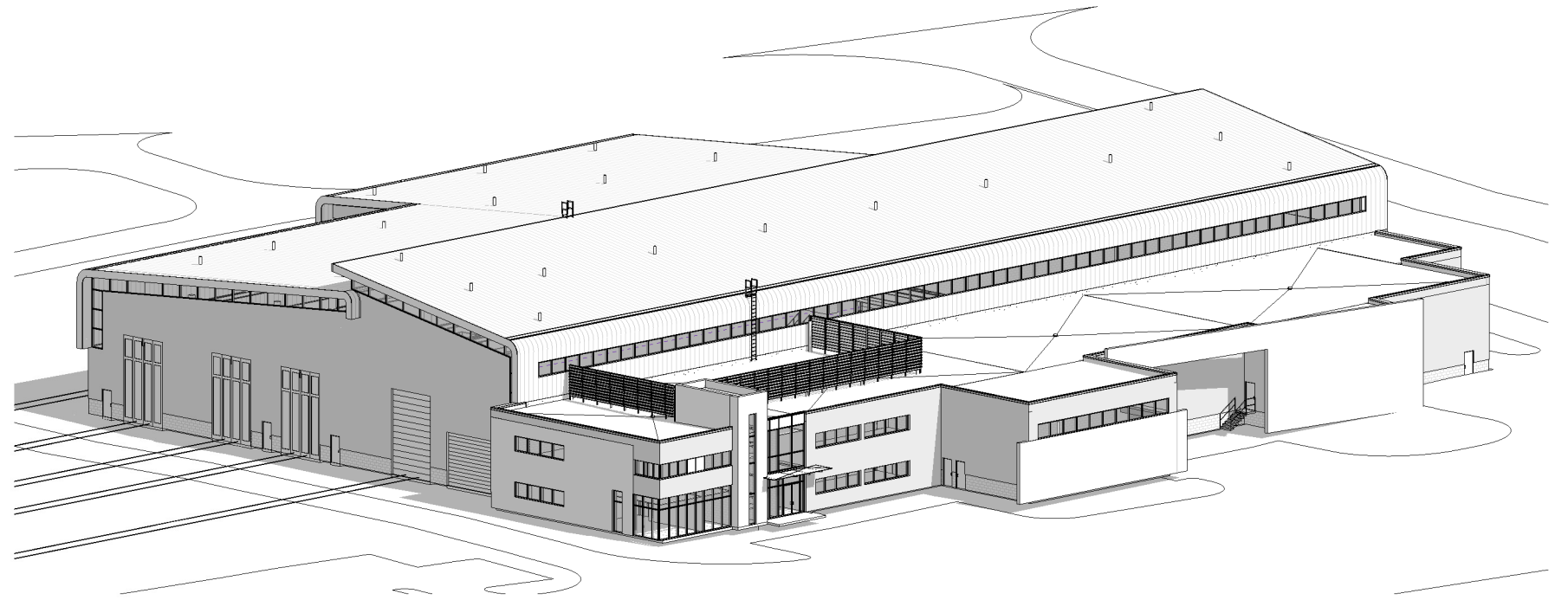


DYER TO HAMMOND, INDIANA

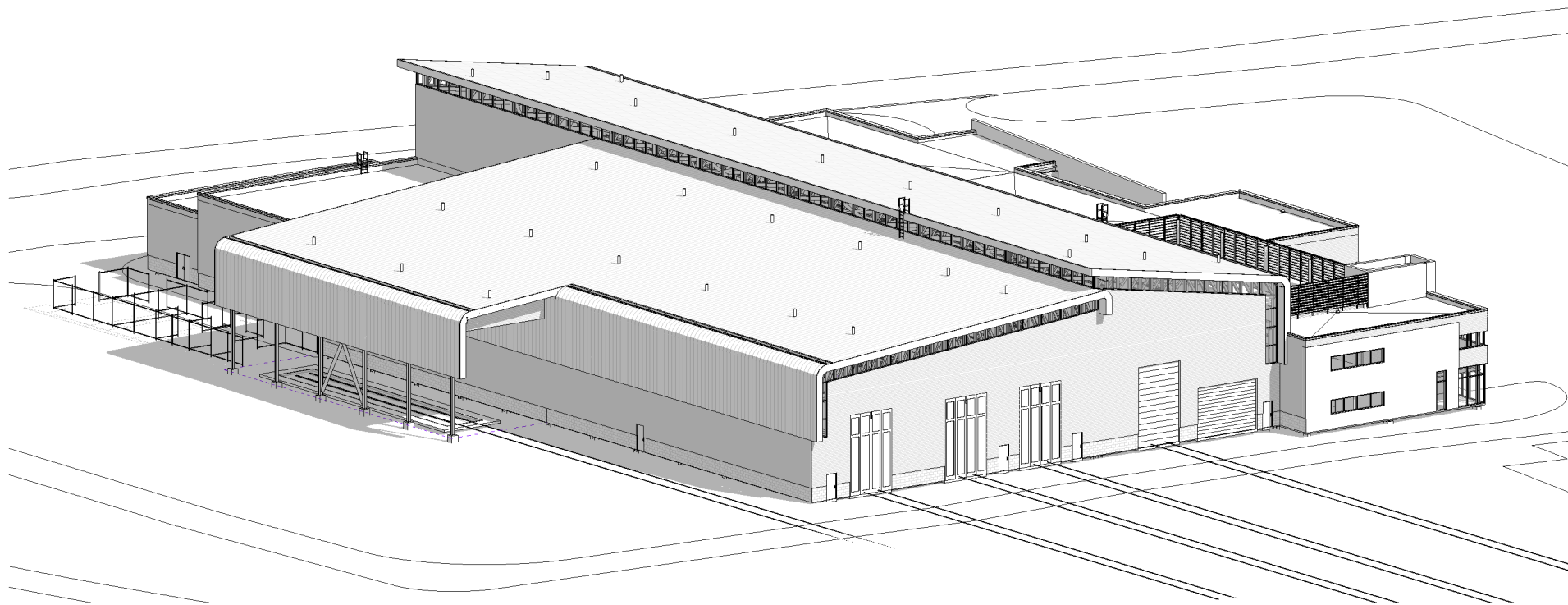
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1 ENTRANCE VIEW



3 3D VIEW FROM SOUTHEAST



2 3D VIEW FROM SOUTHWEST

NOT FOR CONSTRUCTION

SERIES
AR-6901



ISSUE	DATE	DESCRIPTION

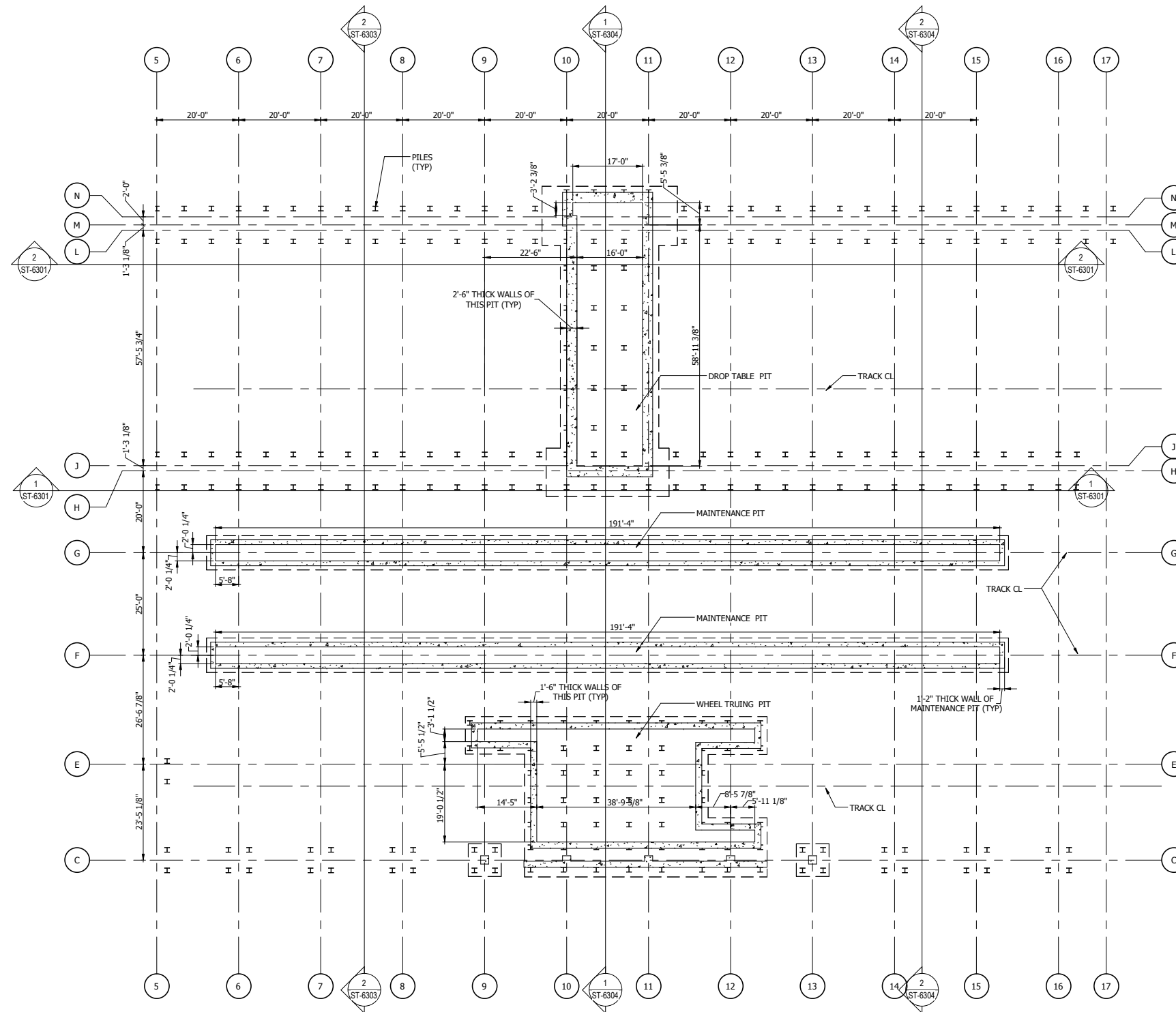


DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

3D VIEWS		FILENAME		SHEET	290 OF 361
		SCALE	N.T.S.		

PLOT DATE: 7/21/2017 8:55:05 AM



1 UNDERGROUND PIT PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6101



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NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

DESIGNED: SKJ
DRAWN: SKJ
CHECKED: CVAN
DATE: 05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46

PROJECT NAME
UNDERGROUND PIT PLAN

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

SHEET
291 OF 361

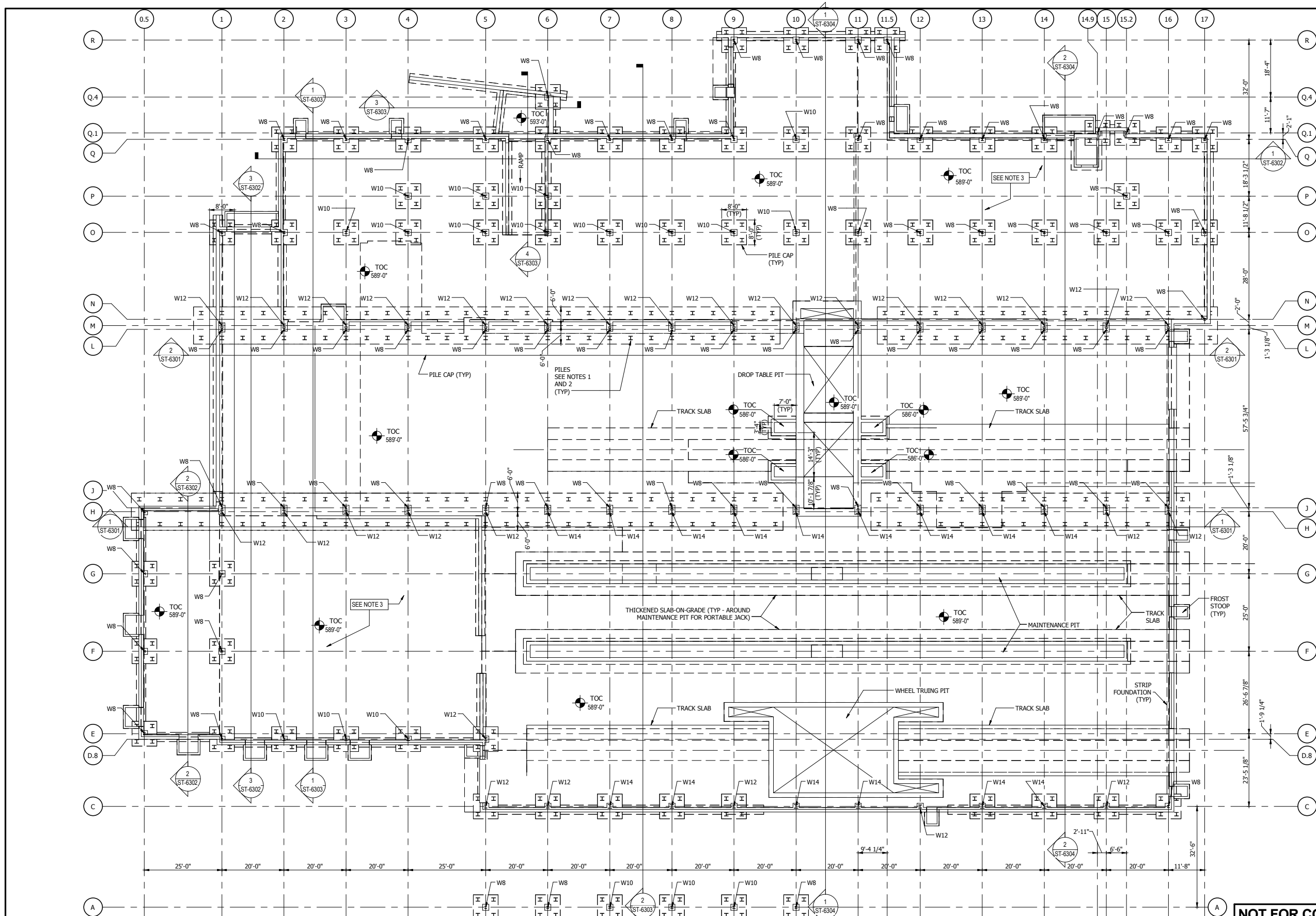
PLOT DATE: 19-Jul-17 4:03:46 PM

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NOTES:

1. PILES ARE CURRENTLY EXPECTED TO REQUIRE FOLLOWING ALLOWABLE LOAD CAPACITIES: A) AXIAL COMPRESSIVE = 50 TONS. B) AXIAL TENSILE = 10 TONS. C) HORIZONTAL = 5 TONS.
2. PILES ARE ASSUMED TO BE HP14 AND LENGTH OF 40 FEET BELOW THE BOTTOM OF PILE CAP.
3. 2'-6" WIDE STRIPS OF SLAB-ON-GRADE SHALL BE THICKENED TO 12" UNDER INTERIOR WALLS.



1 FOUNDATION PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6102



DYER TO HAMMOND, INDIANA

DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
FOUNDATION PLAN

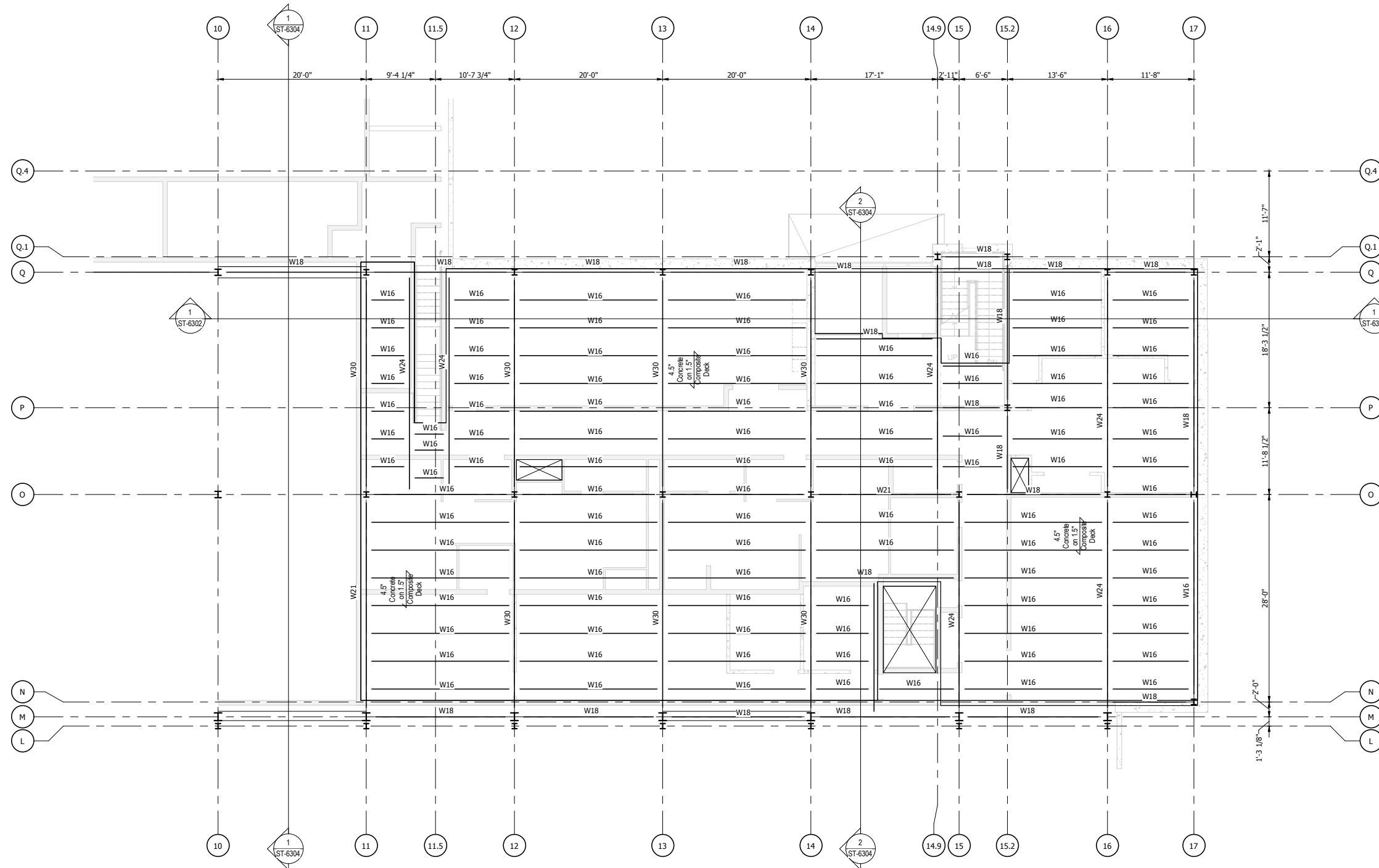
FILENAME		SHEET	
SCALE	1/16" = 1'-0"		292 OF 361

PLOT DATE: 19-Jul-17 4:03:46 PM



NOTE:

1. INFILL BEAMS SHALL BE COMPOSITE AND SHEAR STUDS SHALL BE REQUIRED TO BE WELDED TO TOP FLANGE OF STEEL BEAMS TO FACILITATE COMPOSITE BEHAVIOR.



1 SECOND LEVEL FRAMING PLAN
 1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES **ST-6103**

DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46 PROJECT NAME	
SECOND LEVEL FRAMING PLAN	
FILENAME	SHEET
SCALE	293 OF 361
1/8" = 1'-0"	

PLOT DATE: 19-Jul-17 4:03:47 PM



ISSUE	DATE	DESCRIPTION

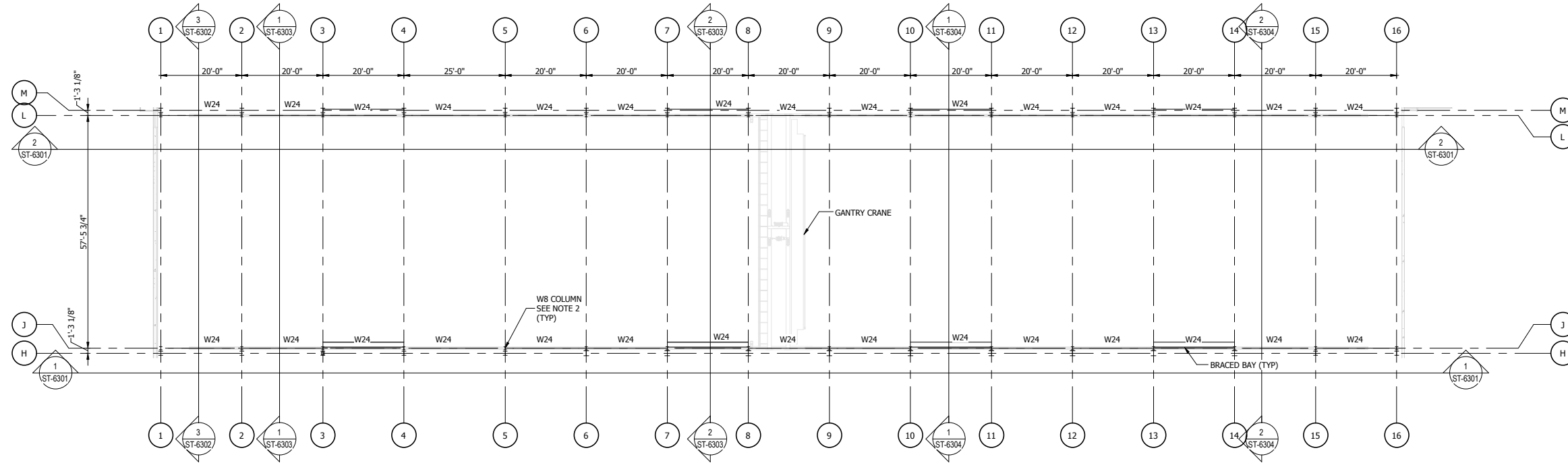


DYER TO HAMMOND, INDIANA



NOTES:

- OVERHEAD GANTRY CRANE WITH LOAD RATING OF 15 TONS.
- HORIZONTAL LOAD FROM THE CRANE, IN THE EAST-WEST DIRECTION, AT THE TOP OF GANTRY SUPPORT COLUMNS SHALL BE TRANSFERRED INTO ADJACENT BUILDING SUPPORT COLUMNS VIA A CONNECTION TAB. THIS TAB SHALL NOT TRANSFER ANY VERTICAL LOAD AND HORIZONTAL LOAD IN THE NORTH-SOUTH DIRECTION FROM THE GANTRY COLUMN INTO THE BUILDING SUPPORT COLUMN.



1 GANTRY CRANE SUPPORT FRAMING PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES **ST-6104**



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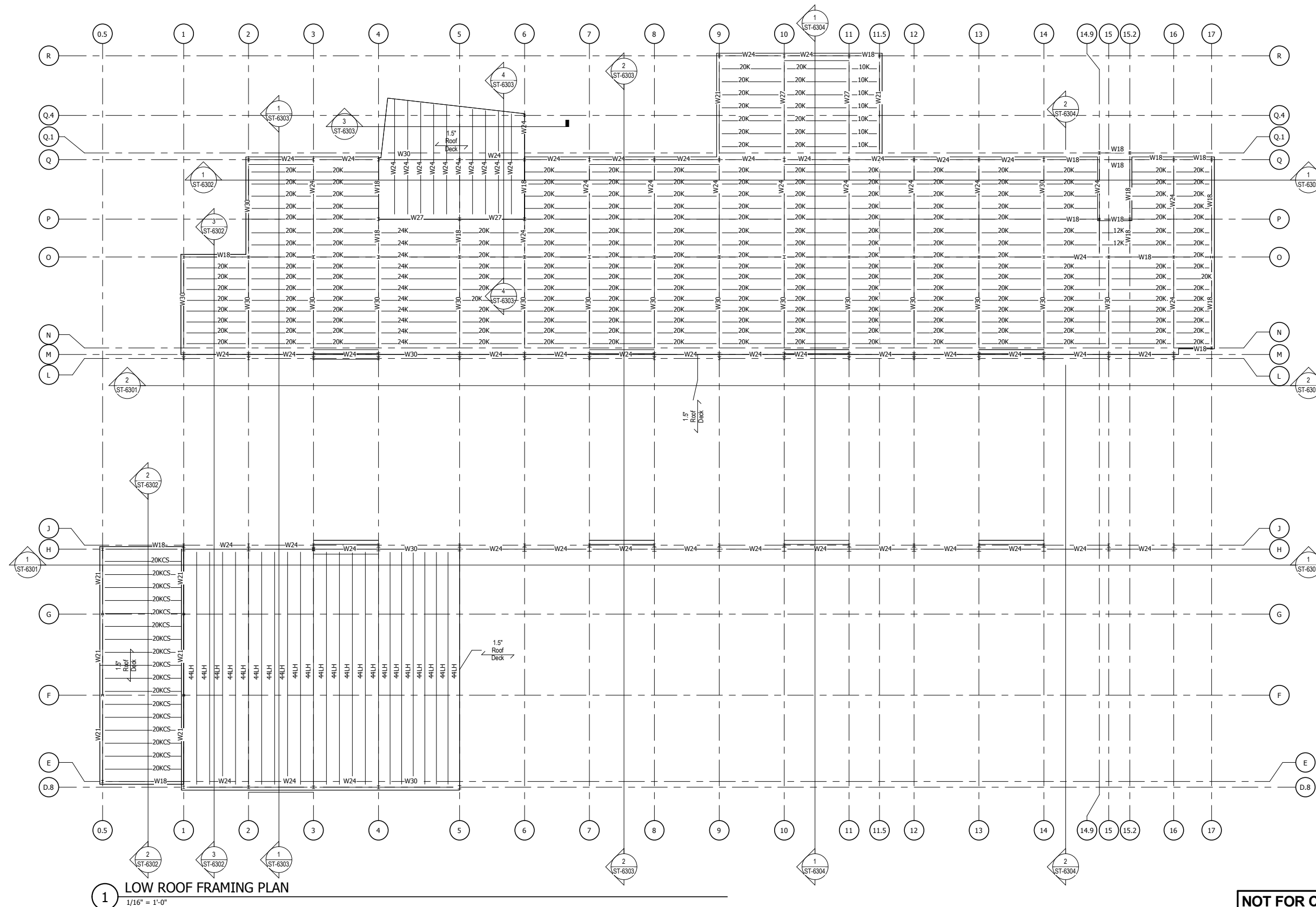


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DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
**GANTRY CRANE SUPPORT
FRAMING PLAN**

FILENAME		SHEET	294 OF 361
SCALE	1/16" = 1'-0"		



1 LOW ROOF FRAMING PLAN
1/16" = 1'-0"

2 STAIRWELL FRAMING PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES **ST-6105**



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DATE:	05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

**LOW ROOF AND STAIRWELL
FRAMING PLANS**

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

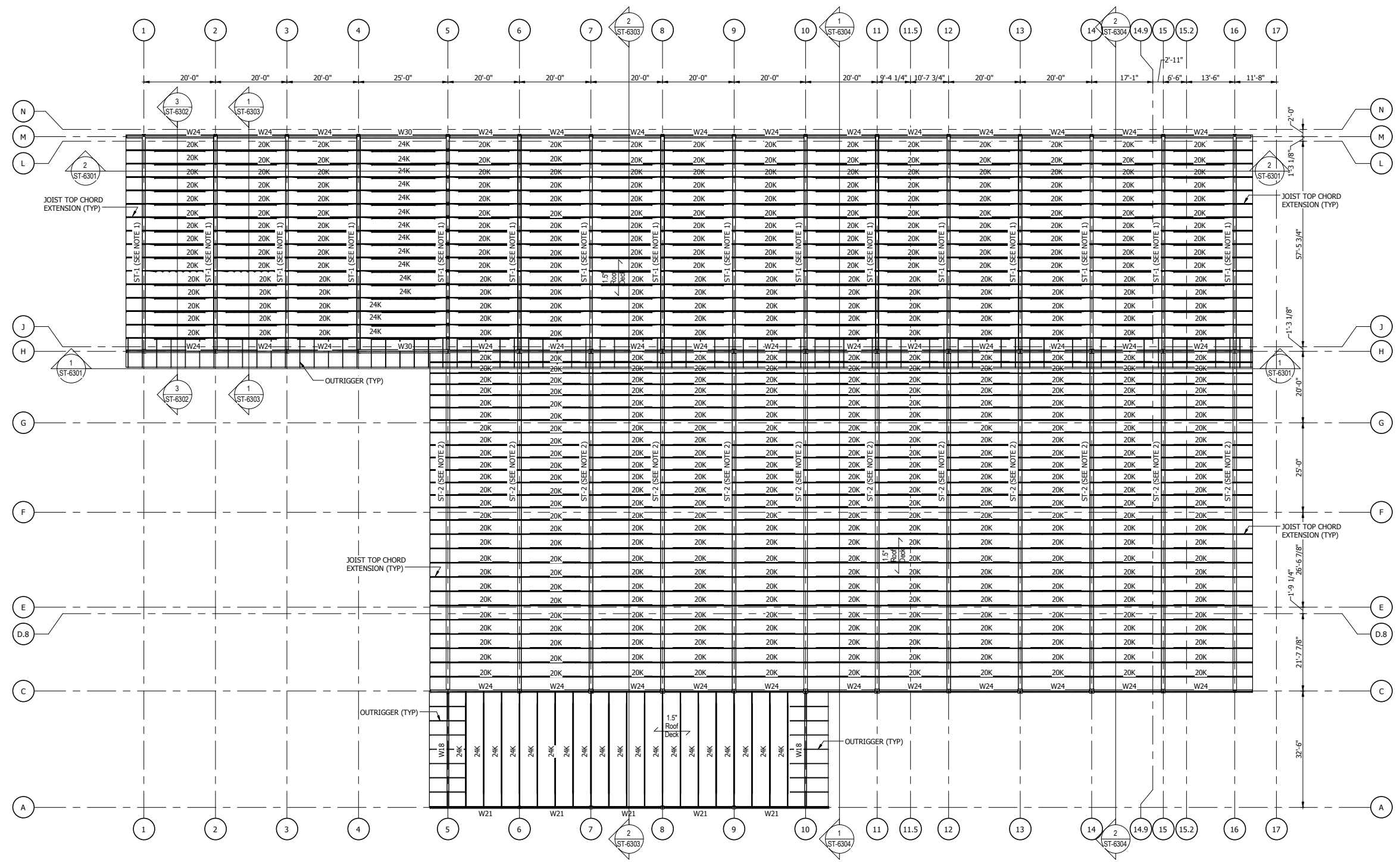
SHEET
295 OF 361

PLOT DATE: 19-Jul-17 4:03:49 PM



NOTES:

- ENGINEERED STRUCTURAL STEEL TRUSS (ST-1) COMPRISES OF W10 TOP CHORD, W12 BOTTOM CHORD, AND W8 WEB MEMBERS. BOTTOM CHORD W12 SHALL BE LAID FLAT. TRUSS SHALL BE PARALLEL CHORD WITH AN OVERALL DEPTH OF 5 FEET. TRUSS SHALL BE CONNECTED WITH THE COLUMNS SO AS TO CREATE MOMENT-RESISTING FRAME IN EAST-WEST DIRECTION.
- ENGINEERED STRUCTURAL STEEL TRUSS (ST-2) COMPRISES OF W12 TOP AND BOTTOM CHORDS AND W8 WEB MEMBERS. BOTTOM CHORD SHALL BE LAID FLAT. TRUSS SHALL BE PARALLEL CHORD WITH AN OVERALL DEPTH OF 8 FEET. TRUSS SHALL BE CONNECTED WITH THE COLUMNS SO AS TO CREATE MOMENT-RESISTING FRAME IN EAST-WEST DIRECTION.



1 HIGH ROOF FRAMING PLAN
 1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES **ST-6106**

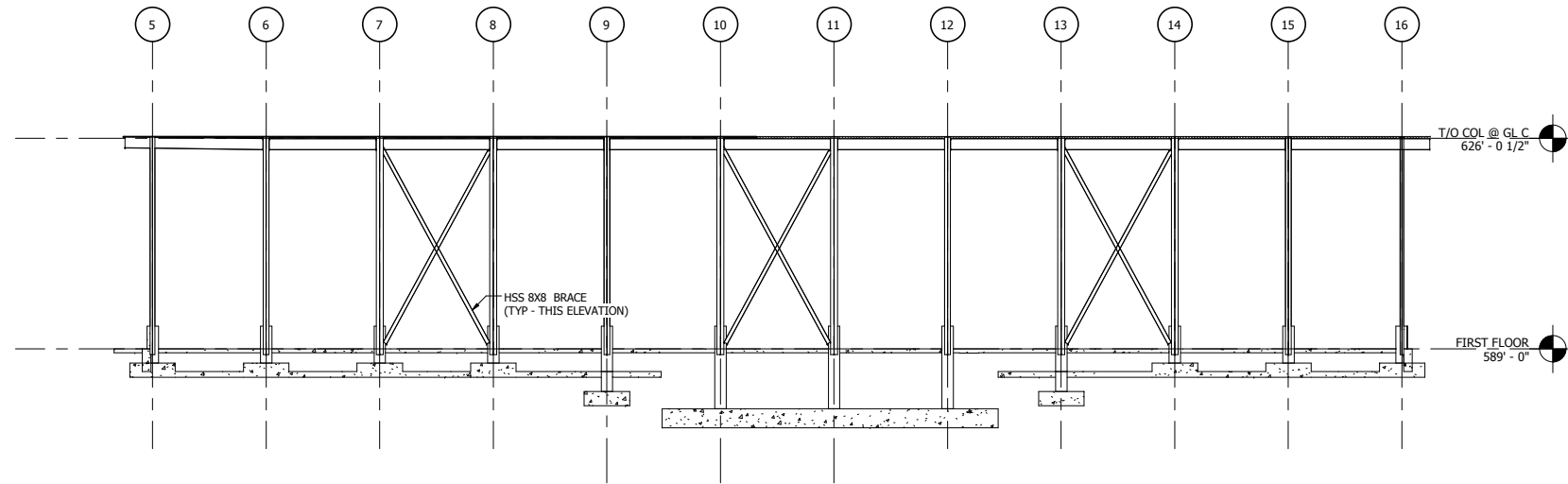


DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	7/21/17

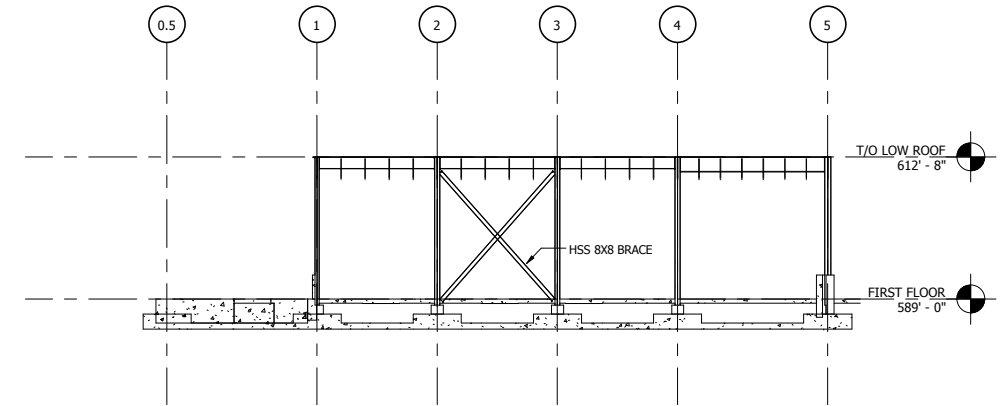
NICD - WEST LAKE CORRIDOR - MP 68.46	
PROJECT NAME	
HIGH ROOF FRAMING PLAN	
FILENAME	SHEET
SCALE	296 OF 361
1/16" = 1'-0"	

ISSUE	DATE	DESCRIPTION

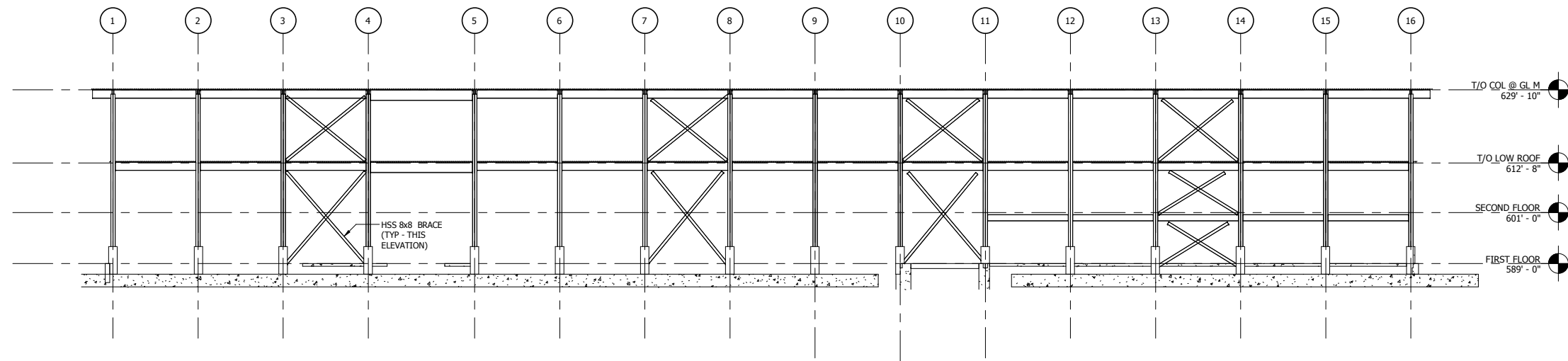
PLOT DATE: 19-Jul-17 4:03:51 PM



1 BRACING ELEVATION GRID C
1/16" = 1'-0"



2 BRACING ELEVATION GRID D.8
1/16" = 1'-0"



3 BRACING ELEVATION GRID M
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6201



DYER TO HAMMOND, INDIANA

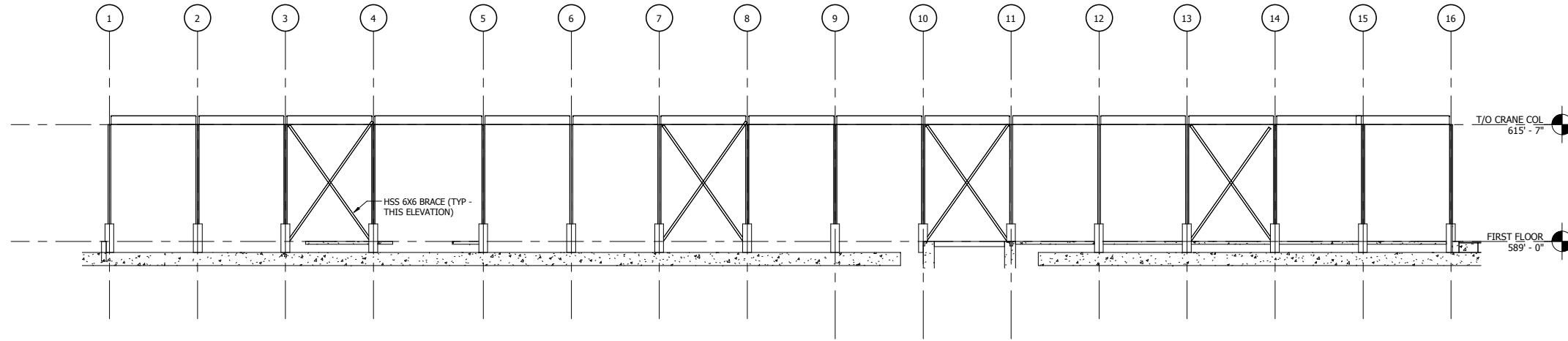
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DATE:	05/25/17

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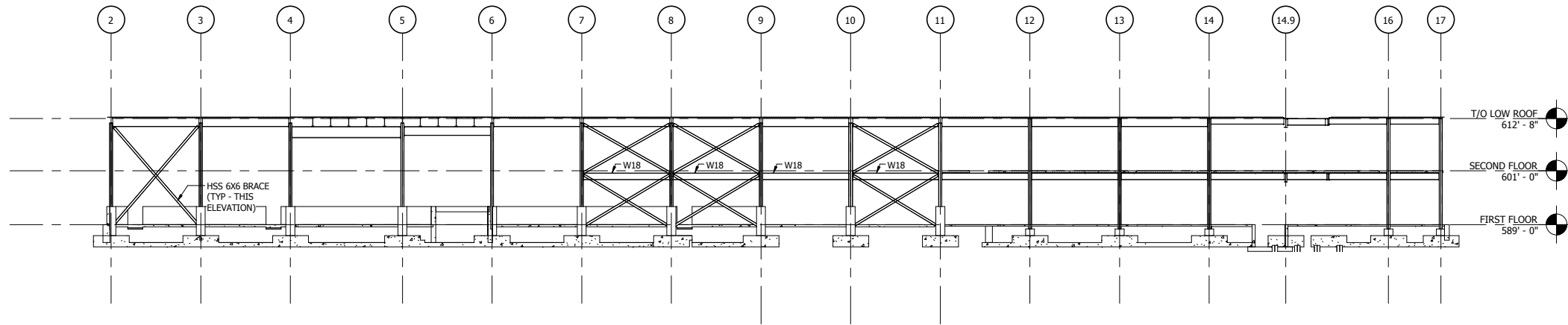
PROJECT NAME
STEEL BRACING ELEVATIONS - I

FILENAME		SHEET	297 OF 361
SCALE	1/16" = 1'-0"		

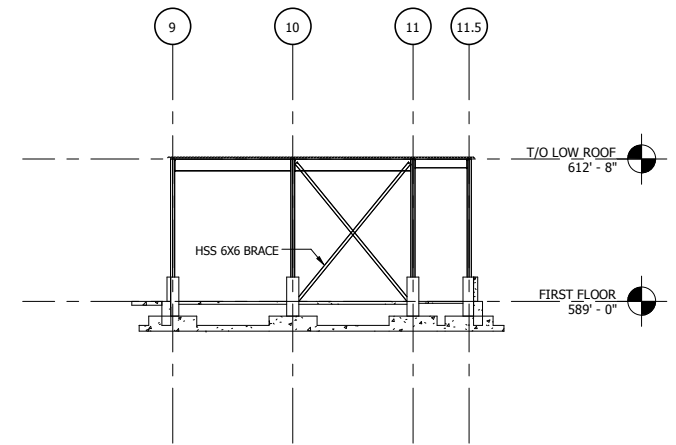
PLOT DATE: 19-Jul-17 4:03:52 PM



1 GANTRY FRAME BRACING ELEVATION GRIDS J AND L
1/16" = 1'-0"



2 BRACING ELEVATION GRID Q
1/16" = 1'-0"



3 BRACING ELEVATION GRID R
1/16" = 1'-0"

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ISSUE	DATE	DESCRIPTION



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DATE:	05/25/17

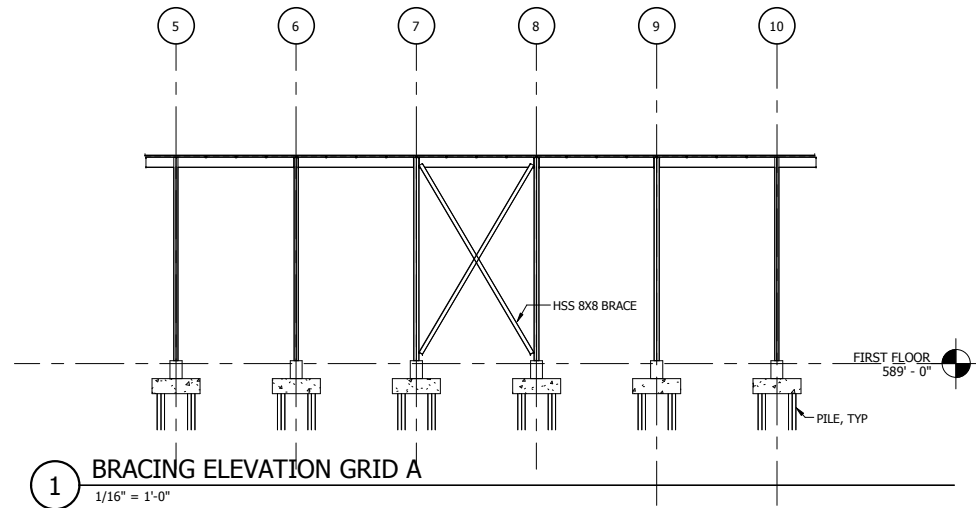
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SERIES
ST-6202

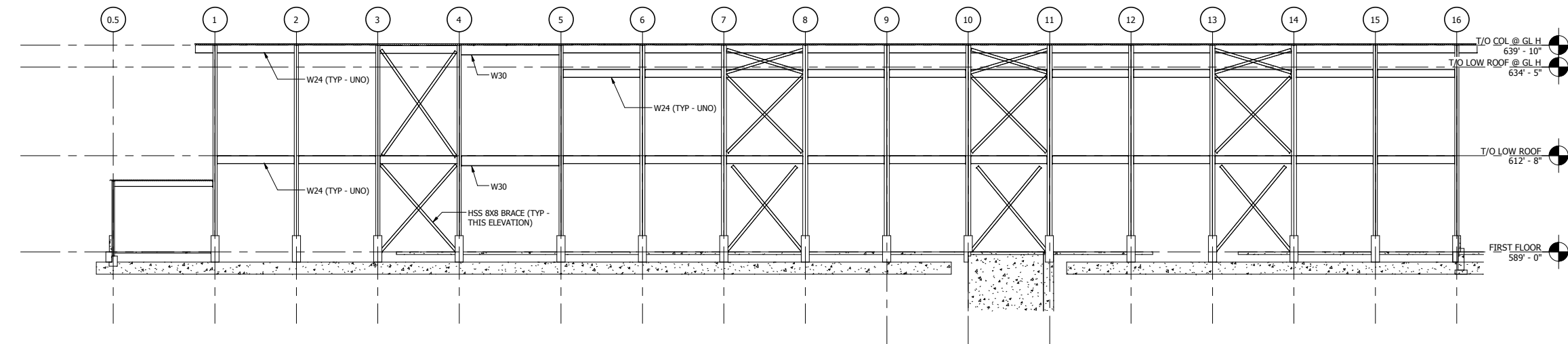
NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
STEEL BRACING ELEVATIONS - II

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

SHEET
298 OF 361



1 BRACING ELEVATION GRID A
1/16" = 1'-0"



2 BRACING ELEVATION GRID H
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6203



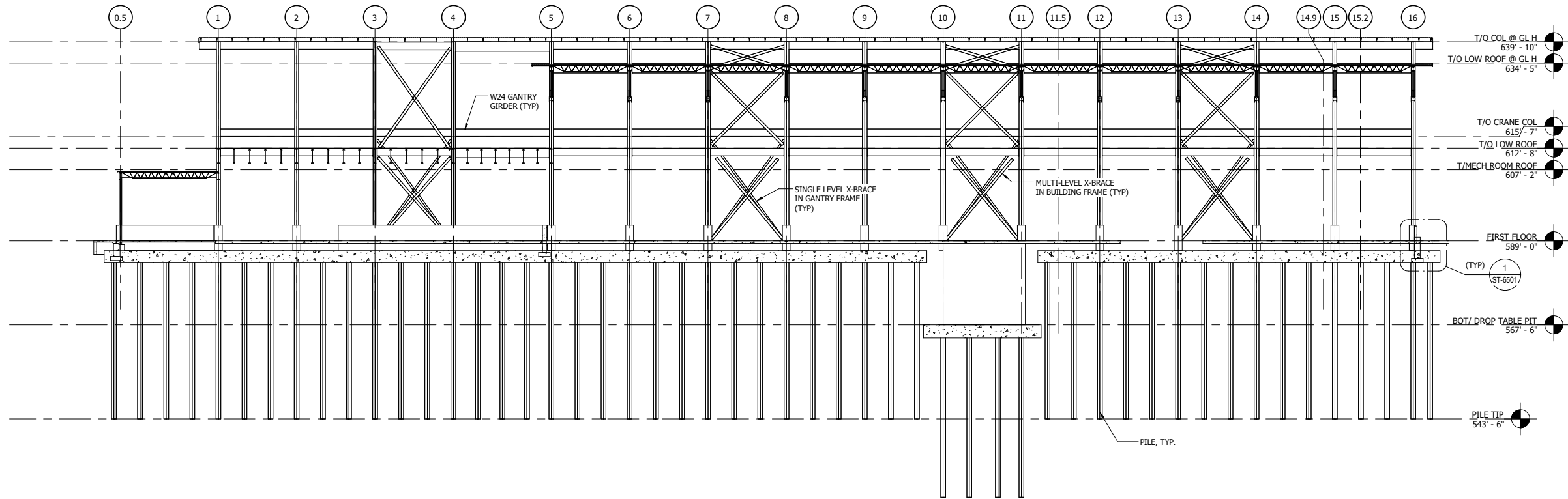
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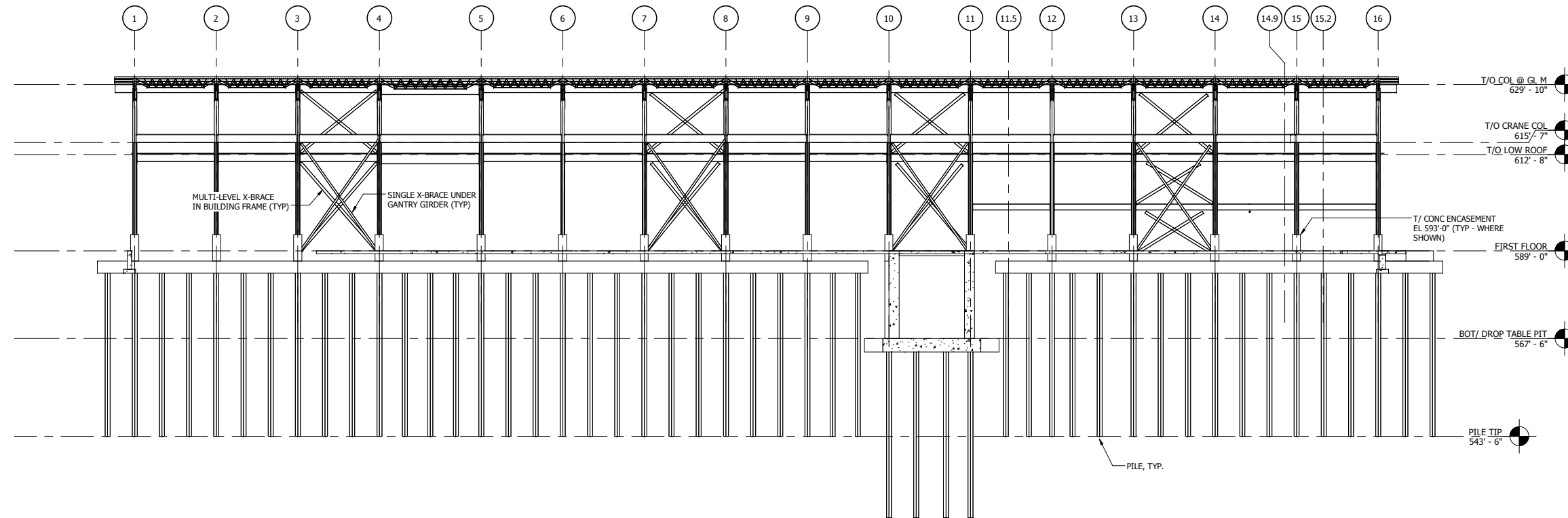
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CHECKED:	CVAN
DATE:	05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46 PROJECT NAME	
STEEL BRACING ELEVATIONS - III	
FILENAME	SHEET
SCALE	299 OF 361
1/16" = 1'-0"	

PLOT DATE: 19-Jul-17 4:03:56 PM



1 LONGITUDINAL SECTION A
1/16" = 1'-0"



2 LONGITUDINAL SECTION B
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6301



DYER TO HAMMOND, INDIANA

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DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/25/17

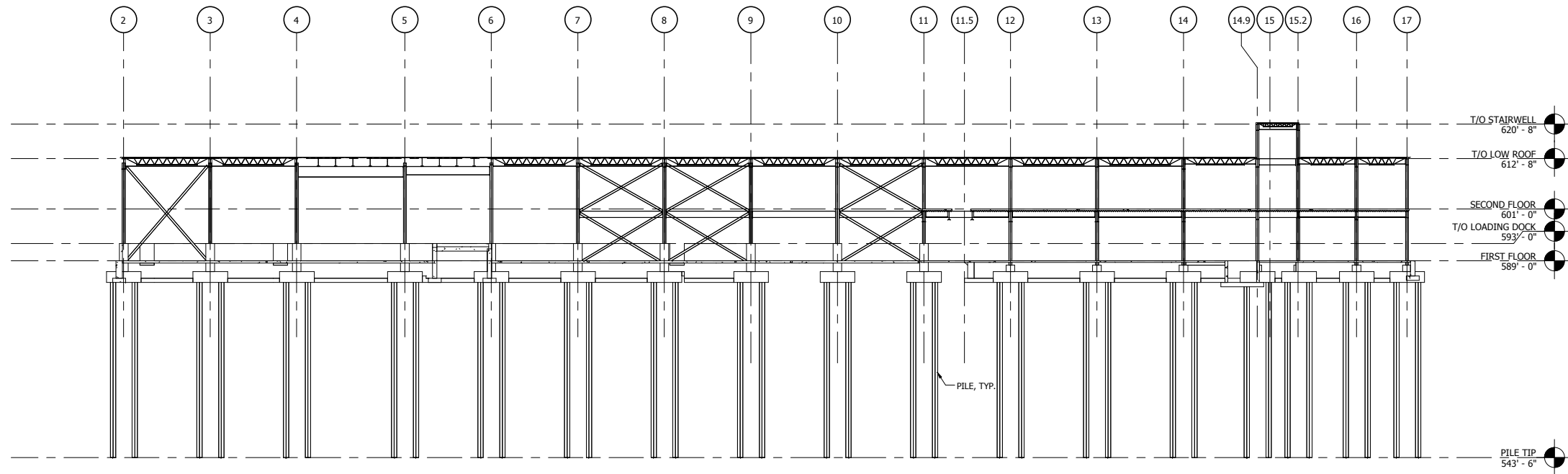
NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

SECTIONS - I

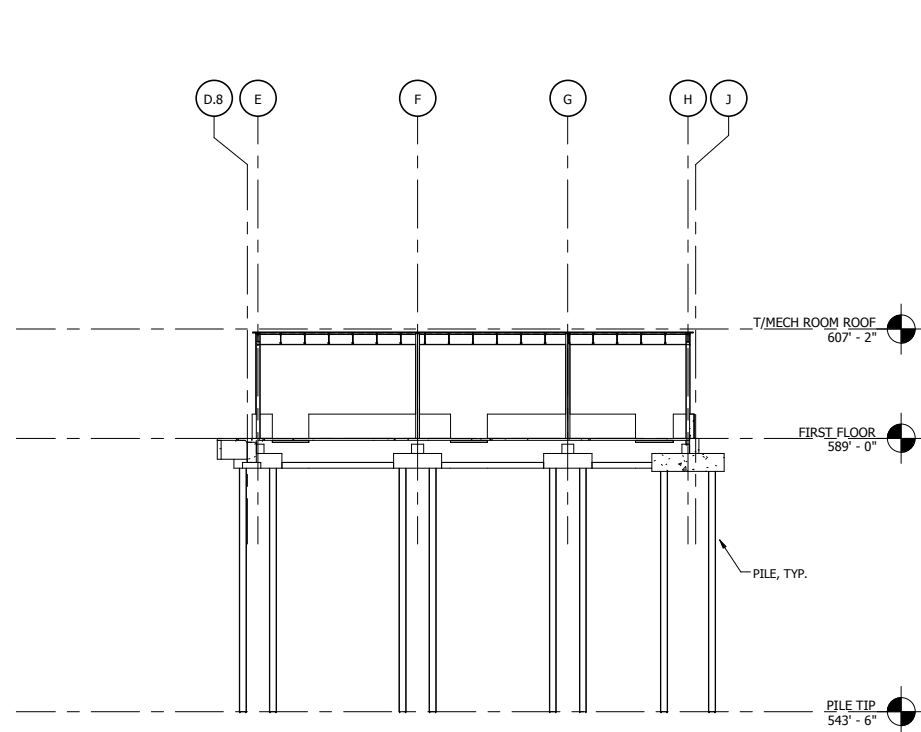
FILENAME	
SCALE	1/16" = 1'-0"

SHEET 300 OF 361

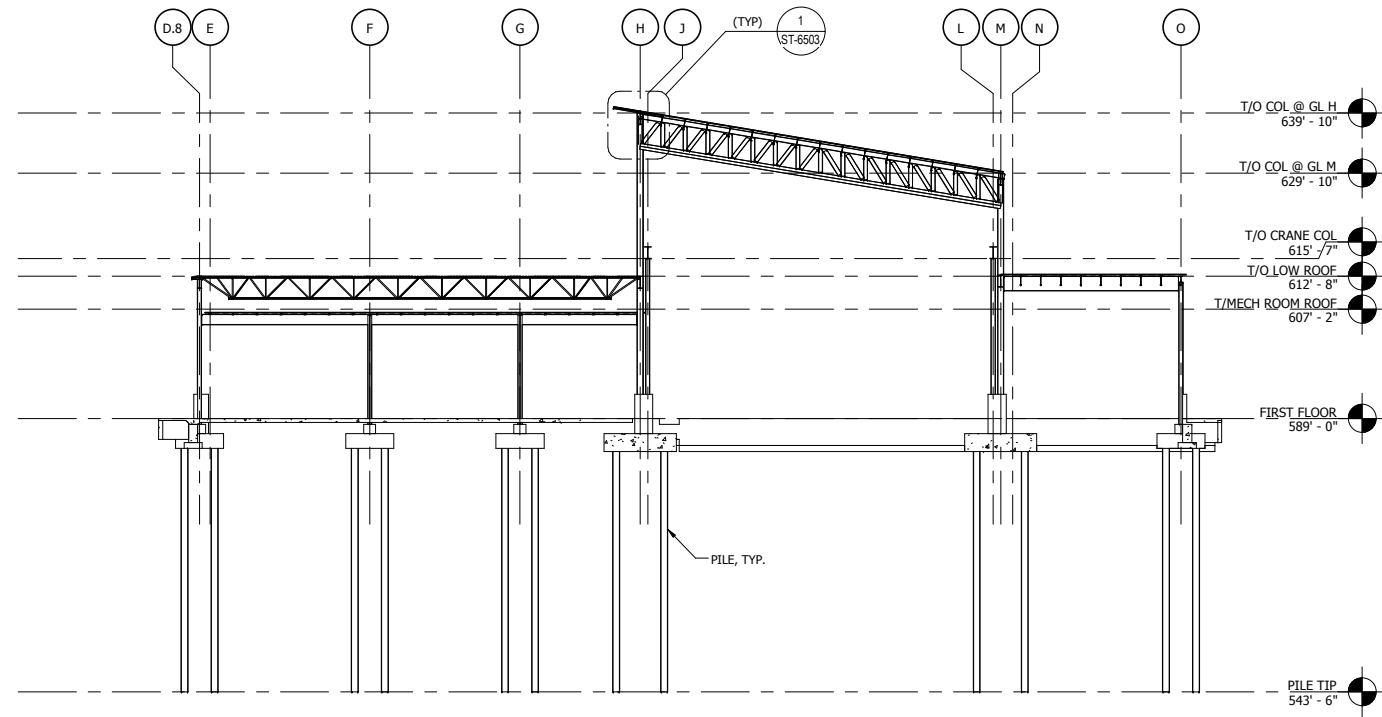
PLOT DATE: 19-Jul-17 4:03:57 PM



1 LONGITUDINAL SECTION C
1/16" = 1'-0"



2 TRANSVERSE SECTION D
1/16" = 1'-0"



3 TRANSVERSE SECTION E
1/16" = 1'-0"

19-Jul-17 4:04:00 PM



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DATE:	05/25/17

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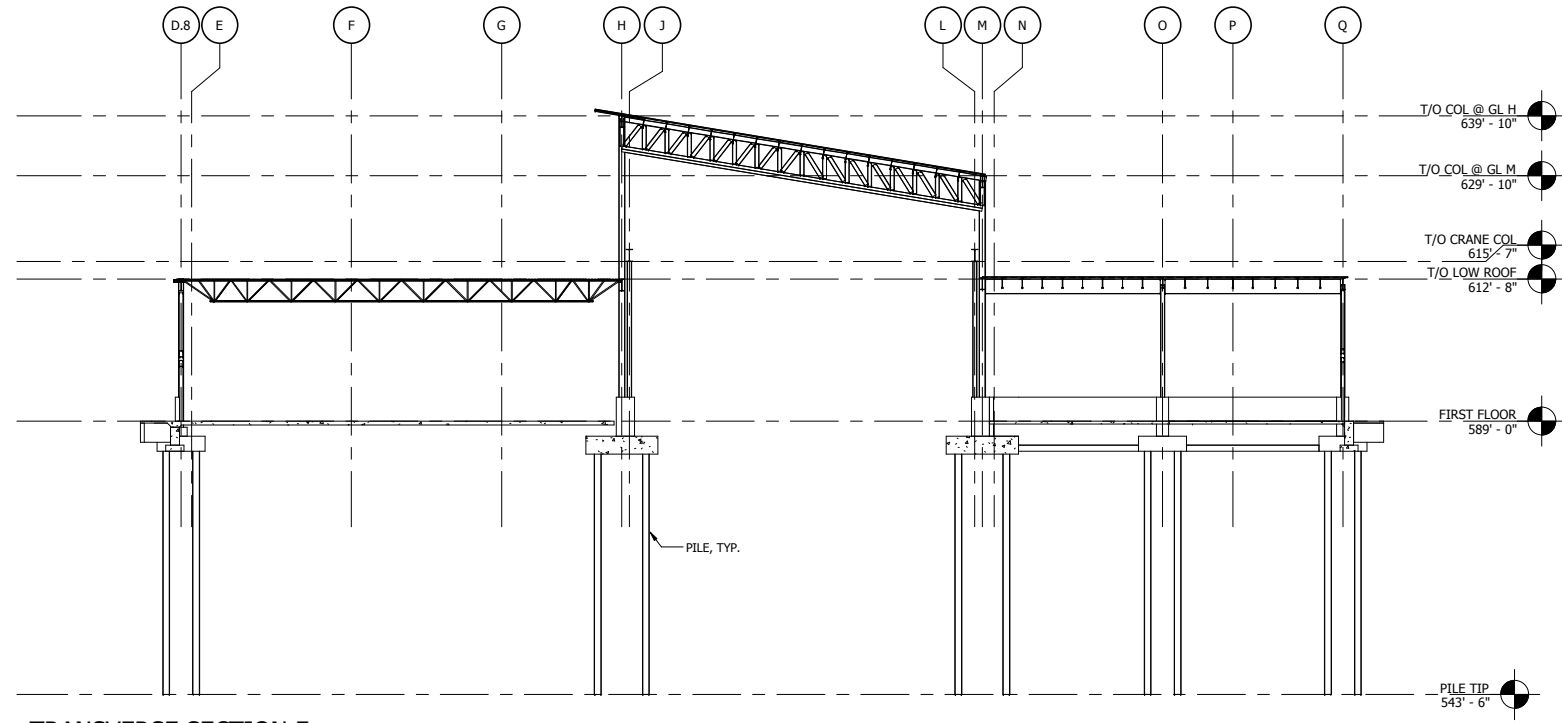
SERIES
ST-6302

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

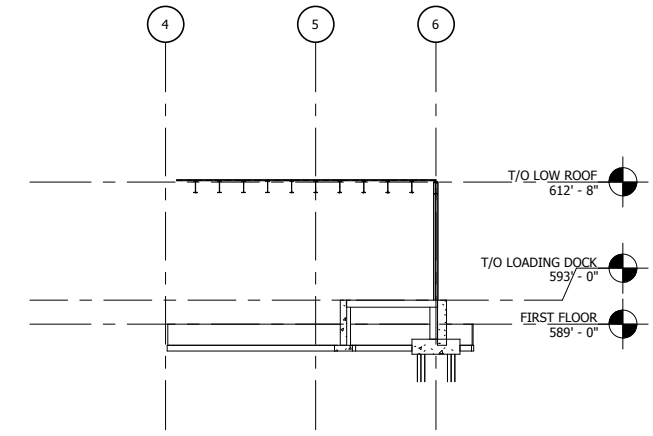
SECTIONS - II

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

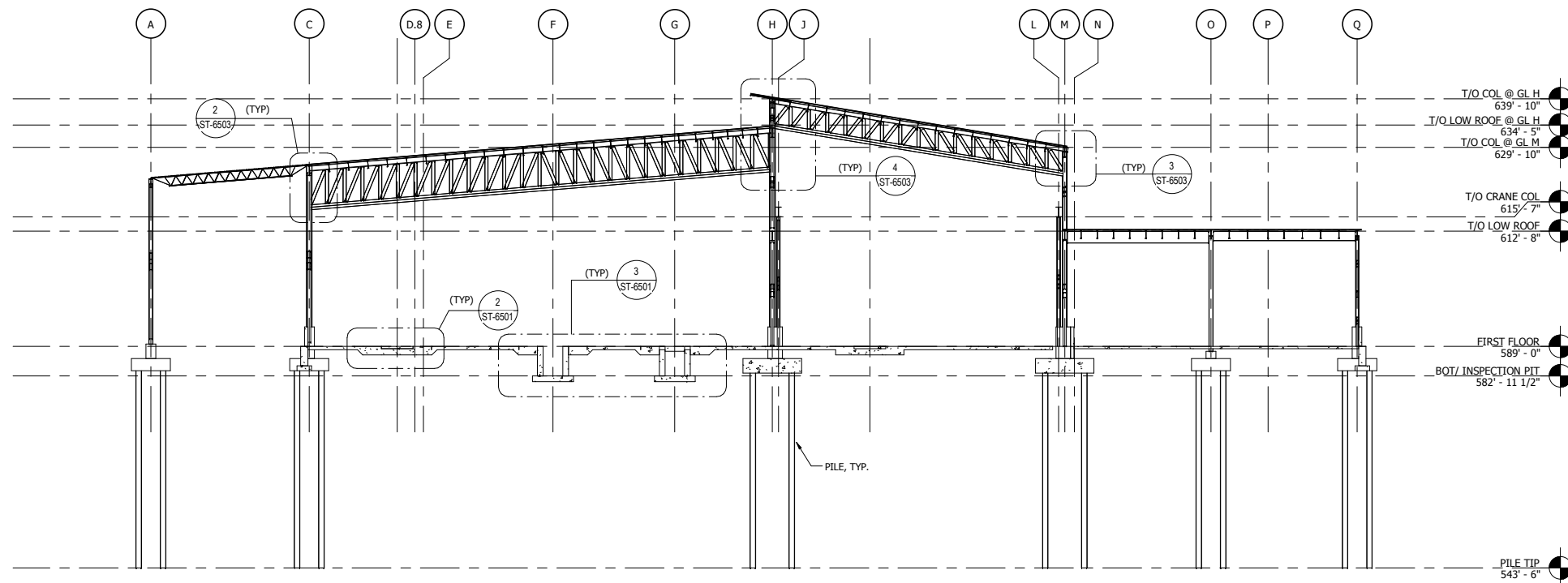
SHEET
301 OF 361



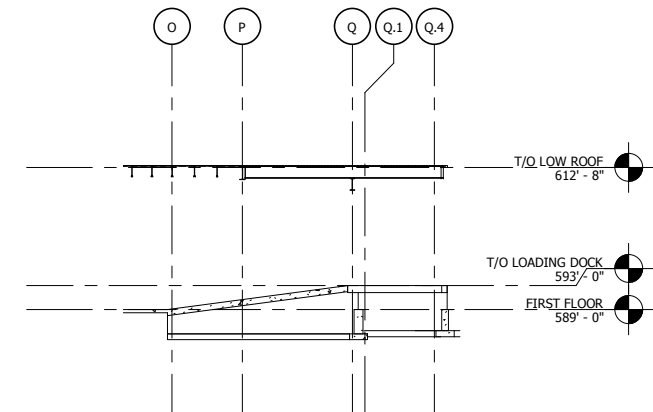
1 TRANSVERSE SECTION F
1/16" = 1'-0"



3 SECTION THRU LOADING DOCK
1/16" = 1'-0"



2 TRANSVERSE SECTION G
1/16" = 1'-0"



4 SECTION THRU RAMP
1/16" = 1'-0"

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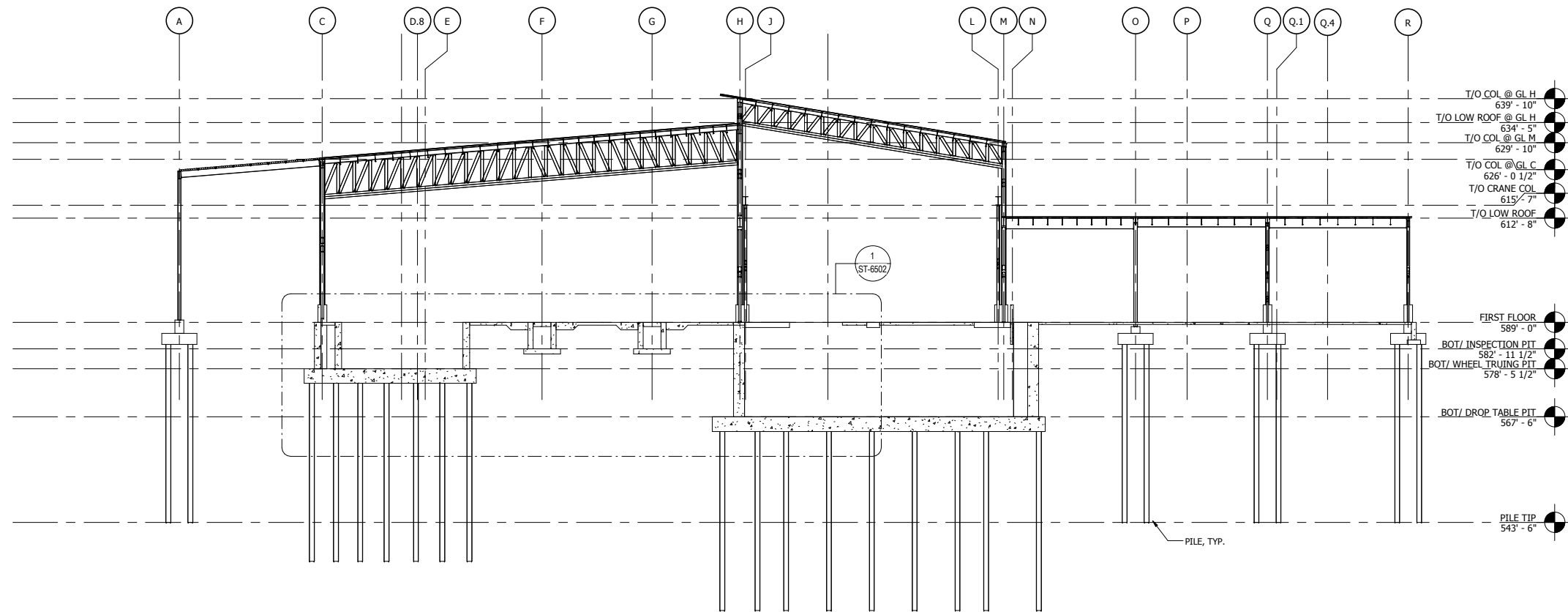
DYER TO HAMMOND, INDIANA

DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/25/17

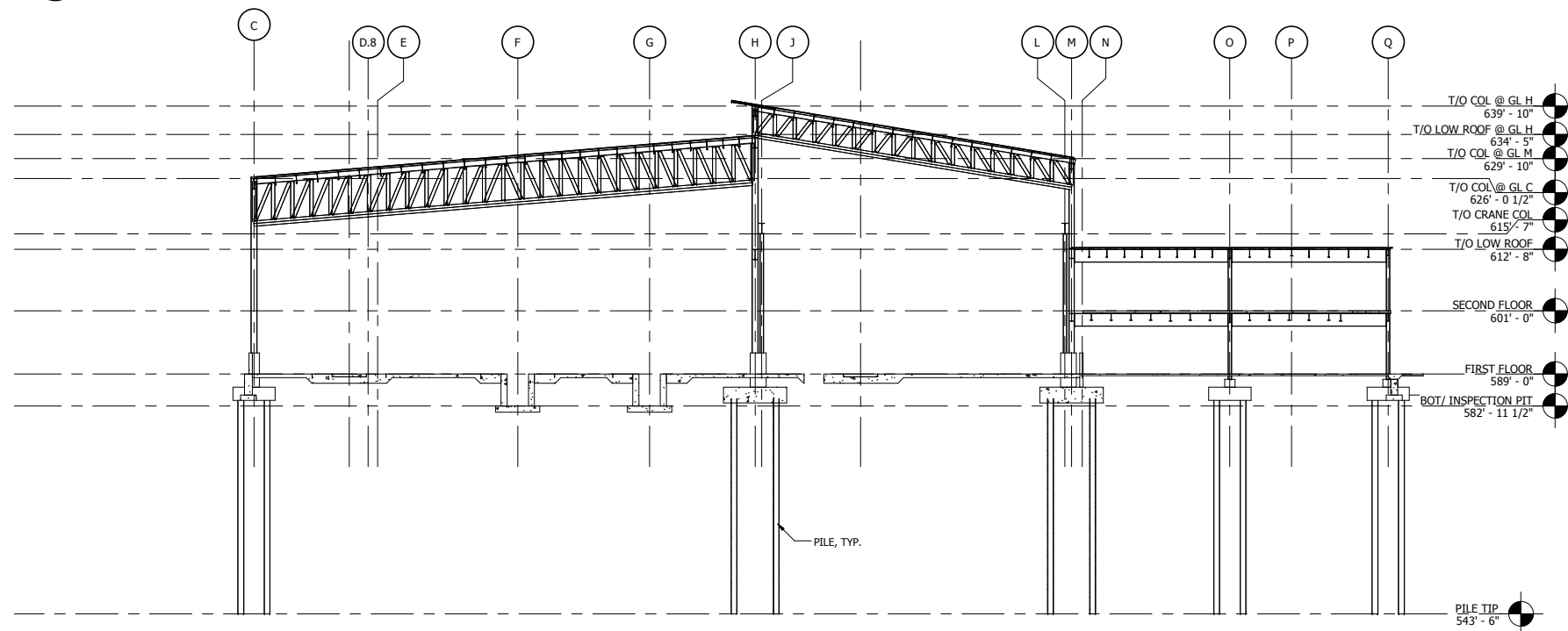
NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
SECTIONS - III

FILENAME		SHEET	
SCALE	1/16" = 1'-0"		302 OF 361

PLOT DATE: 19-Jul-17 4:04:02 PM



1 TRANSVERSE SECTION H
1/16" = 1'-0"



2 TRANSVERSE SECTION I
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-6304



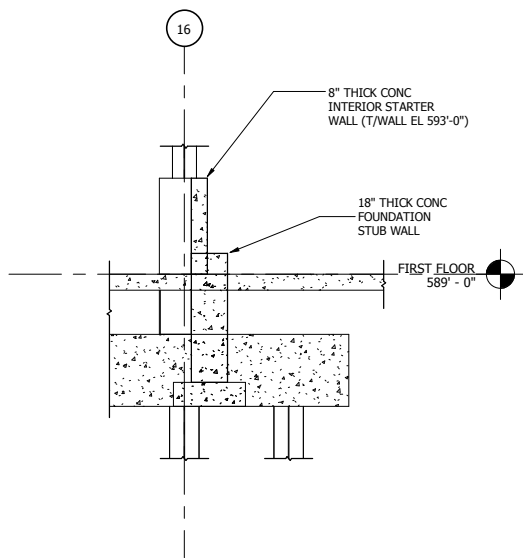
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DESIGNED:	SKJ
DRAWN:	SKJ
CHECKED:	CVAN
DATE:	05/17/17

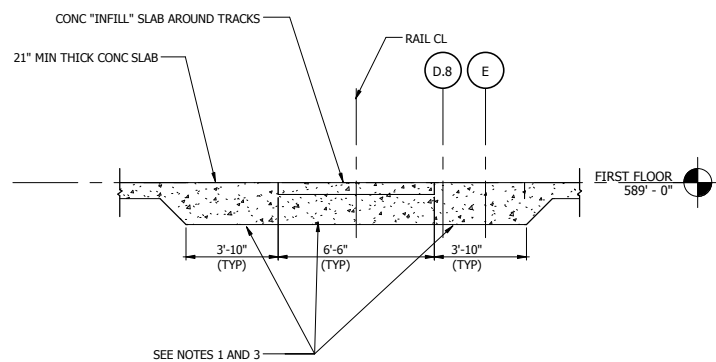
NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
SECTIONS - IV

FILENAME		SHEET	303 OF 361
SCALE	1/16" = 1'-0"		

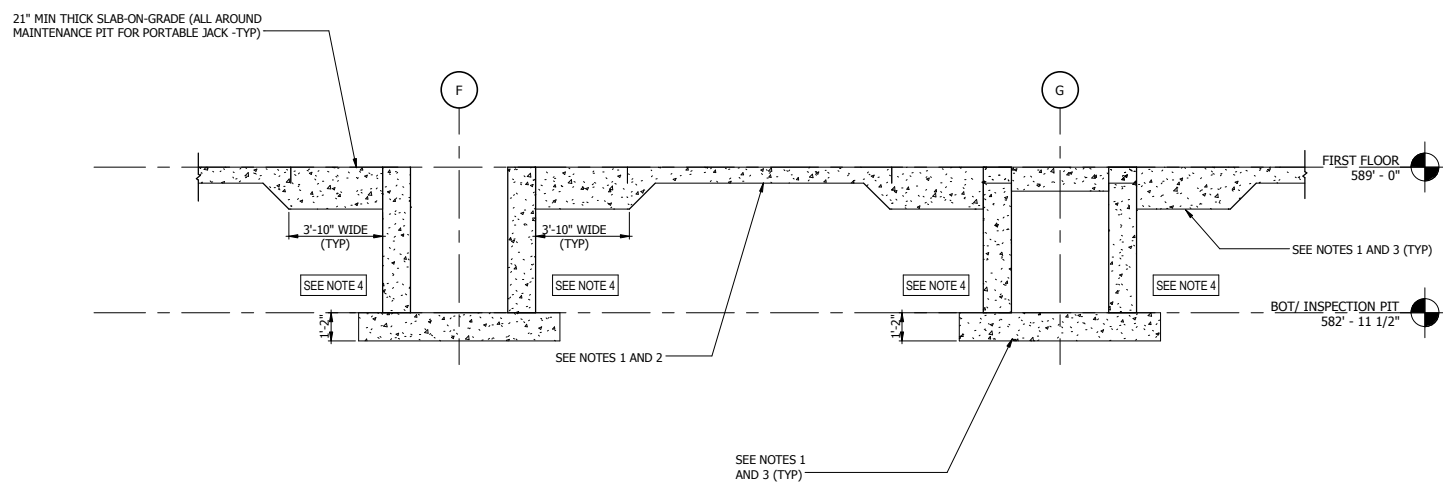
PLOT DATE: 19-Jul-17 4:04:03 PM



1 FOUNDATION STUB WALL DETAIL
1/4" = 1'-0"



2 TRACK SLAB DETAIL
1/4" = 1'-0"



3 PIT DETAIL - I
1/4" = 1'-0"

NOTES:

1. WEAK AND UNSUITABLE SOIL UNDER TRACKS, MAINTENANCE PITS, STRIP FOUNDATIONS, AND SLAB-ON-GRADE SHALL BE REMOVED TO TOP OF SUITABLE SOILS. EXPOSED BEARING STRATUM SHALL BE COMPACTED AND PREPARED. OVER-EXCAVATION SHALL BE FILLED WITH COMPACTED ENGINEERED FILL AND / OR CONTROLLED LOW STRENGTH MATERIAL (CLSM).
2. A MINIMUM 8" THICK LAYER OF COMPACTED #57 STONE SHALL BE PROVIDED UNDER SLAB-ON-GRADE AND STRIP FOUNDATIONS.
3. A MINIMUM 18" THICK LAYER OF COMPACTED #57 STONE SHALL BE PROVIDED UNDER THIS AREA.
4. BACKFILL AGAINST SIDE WALLS OF MAINTENANCE PITS AND UNDER THICKENED SLAB-ON-GRADE SHALL CONSIST OF CONTROLLED LOW STRENGTH MATERIAL (CLSM). SEE NOTE 3 FOR COMPACTED #57 STONE REQUIREMENTS.

NOT FOR CONSTRUCTION

SERIES
ST-6501

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

DETAILS - I

DESIGNED: SKJ
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DATE: 05/25/17

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

SHEET
304 OF 361



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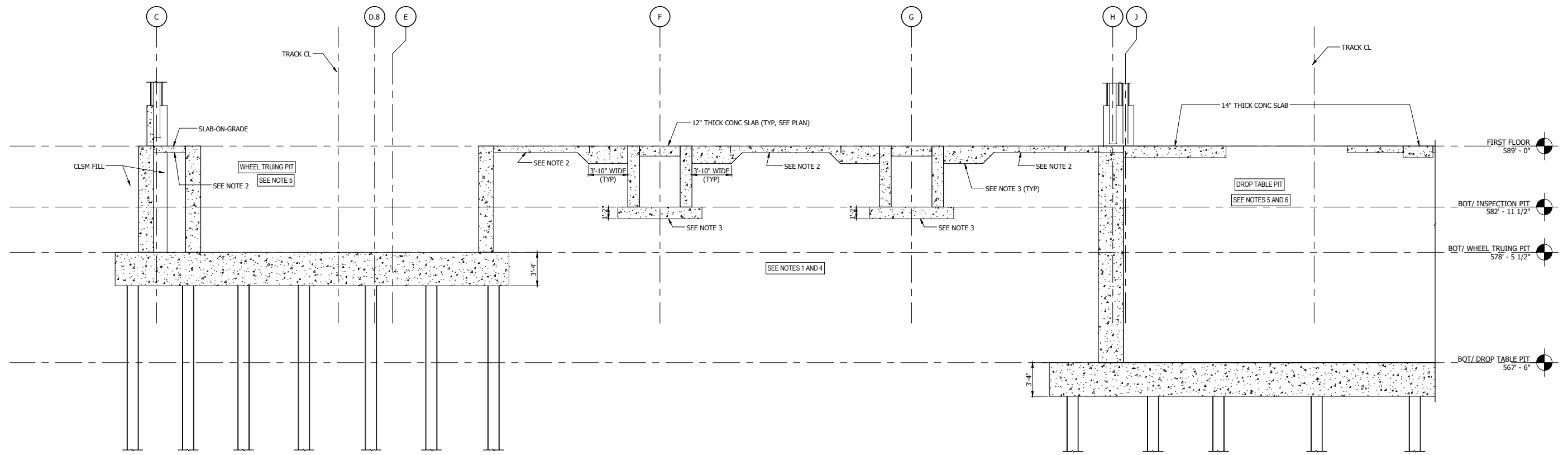


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1 PIT DETAIL - II
3/16" = 1'-0"

NOTES:

- WEAK AND UNSUITABLE SOIL UNDER TRACKS, MAINTENANCE PITS, AND SLAB-ON-GRADE SHALL BE REMOVED TO TOP OF SUITABLE SOILS. EXPOSED BEARING STRATUM SHALL BE COMPACTED AND PREPARED. OVER-EXCAVATION SHALL BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).
- A MINIMUM 8" THICK LAYER OF COMPACTED #57 STONE SHALL BE PROVIDED UNDER SLAB-ON-GRADE.
- A MINIMUM 18" THICK LAYER OF COMPACTED #57 STONE SHALL BE PROVIDED UNDER THIS AREA.
- ALL BACKFILL BETWEEN WHEEL TRUING PIT AND DROP TABLE PIT SHALL CONSIST OF CONTROLLED LOW STRENGTH MATERIAL (CLSM). SEE NOTES 2 AND 3 FOR COMPACTED #57 STONE REQUIREMENTS.
- BACKFILL AGAINST (ALL) PIT WALLS SHALL CONSIST OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) WHERE SLAB-ON-GRADE EXISTS ADJACENT TO THE PITS. SUCH BACKFILL SHALL HAVE A SIDE SLOPE OF NO MORE THAN 45 DEGREES FROM THE HORIZONTAL STARTING AT THE OUTER EDGES OF BASE OF EXCAVATION. SEE OTHER NOTES FOR COMPACTED #57 STONE REQUIREMENTS.
- BACKFILL AGAINST NORTH AND SOUTH WALLS OF DROP TABLE PIT SHALL CONSIST OF CONTROLLED LOW STRENGTH MATERIAL (CLSM) FOR A MINIMUM WIDTH OF 20' CENTERED ON THE TRACK AND FOR A MINIMUM DISTANCE OF 40 FEET FROM THE EXTERIOR FACE OF PIT WALLS. SEE OTHER NOTES FOR COMPACTED #57 STONE REQUIREMENTS.

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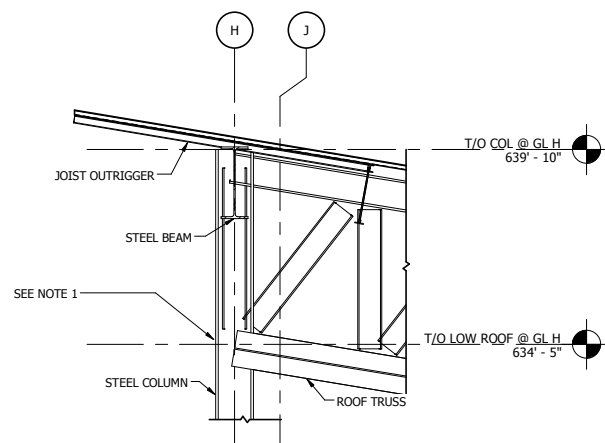
NOT FOR CONSTRUCTION

SERIES
ST-6502

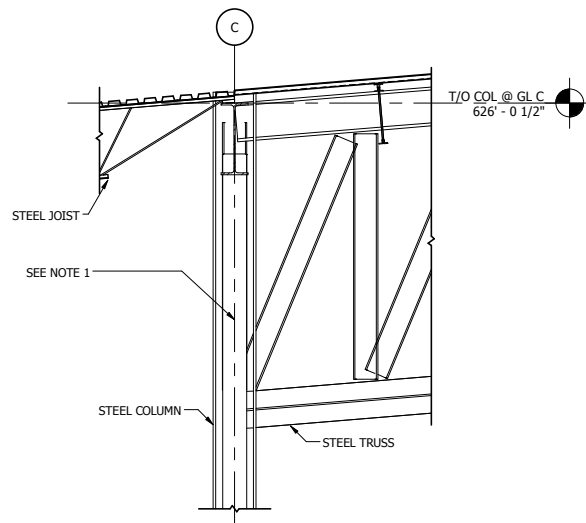
NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

DETAILS - II

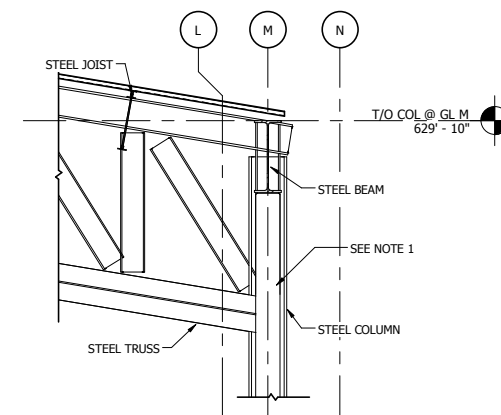
FILENAME	SHEET
SCALE	3/16" = 1'-0"
305 OF 361	



1 ROOF TRUSS TO COLUMN CONNECTION DETAIL - I
3/8" = 1'-0"



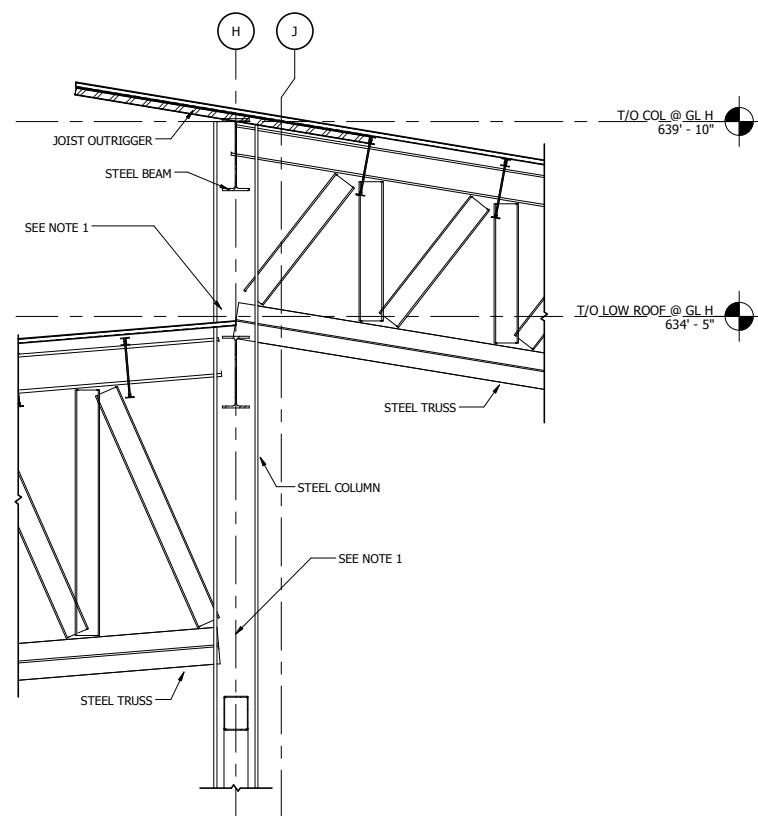
2 ROOF TRUSS TO COLUMN CONNECTION DETAIL - II
3/8" = 1'-0"



3 ROOF TRUSS TO COLUMN CONNECTION DETAIL - III
3/8" = 1'-0"

NOTE:

1. COLUMN SECTIONS IN THE VICINITY OF THE TRUSS SHALL BE REINFORCED WITH WELDED CARBON STEEL PLATES TO FACILITATE MOMENT CONNECTION AND WITHSTAND AMPLIFIED STRESSES.



4 ROOF TRUSS TO COLUMN CONNECTION DETAIL - IV
3/8" = 1'-0"

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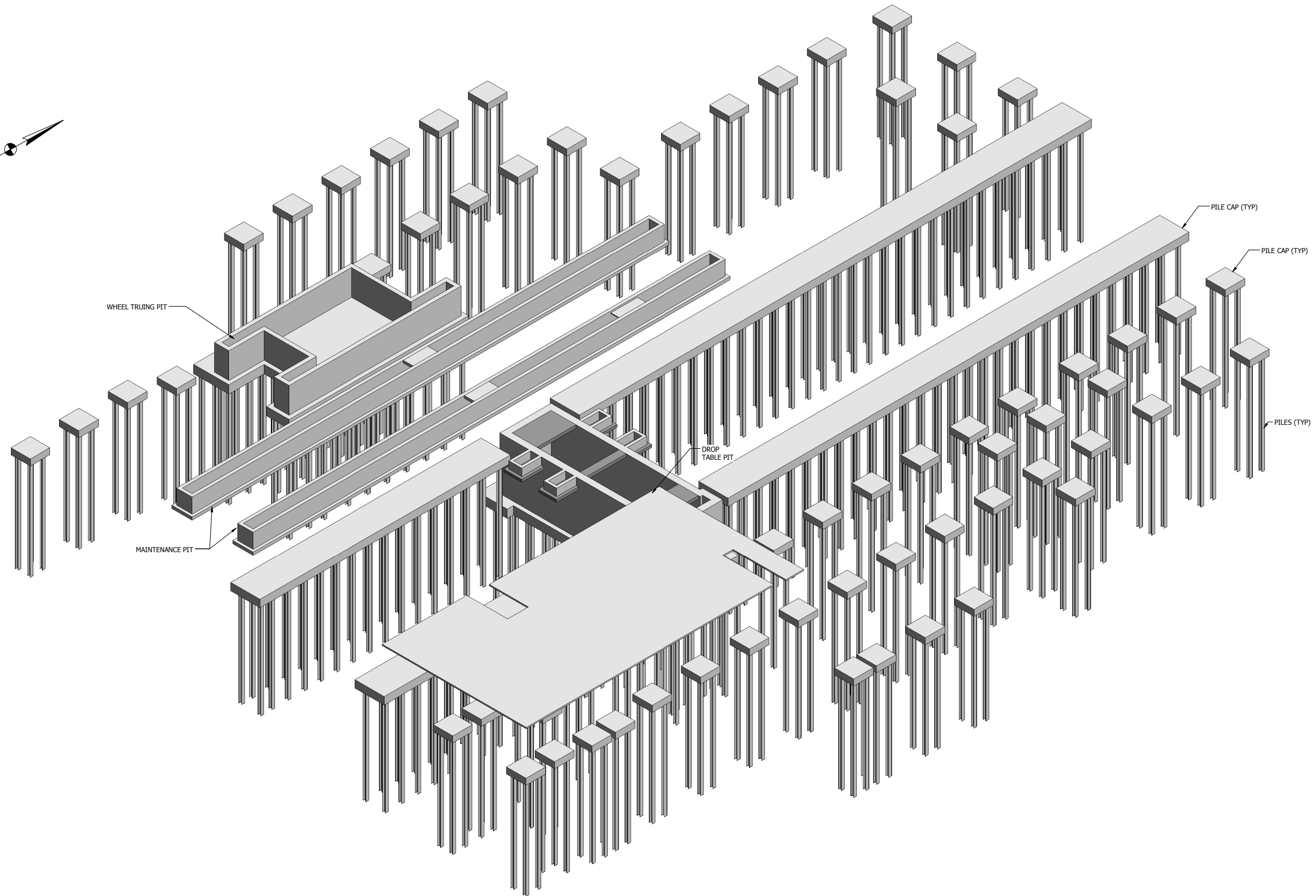
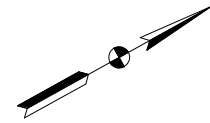
DESIGNED: SKJ
DRAWN: SKJ
CHECKED: CVAN
DATE: 05/25/17

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME

DETAILS - III

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

SHEET
306 OF 361



1 DEEP FOUNDATIONS AND PITS

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ST-6901



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DATE: 05/17/17

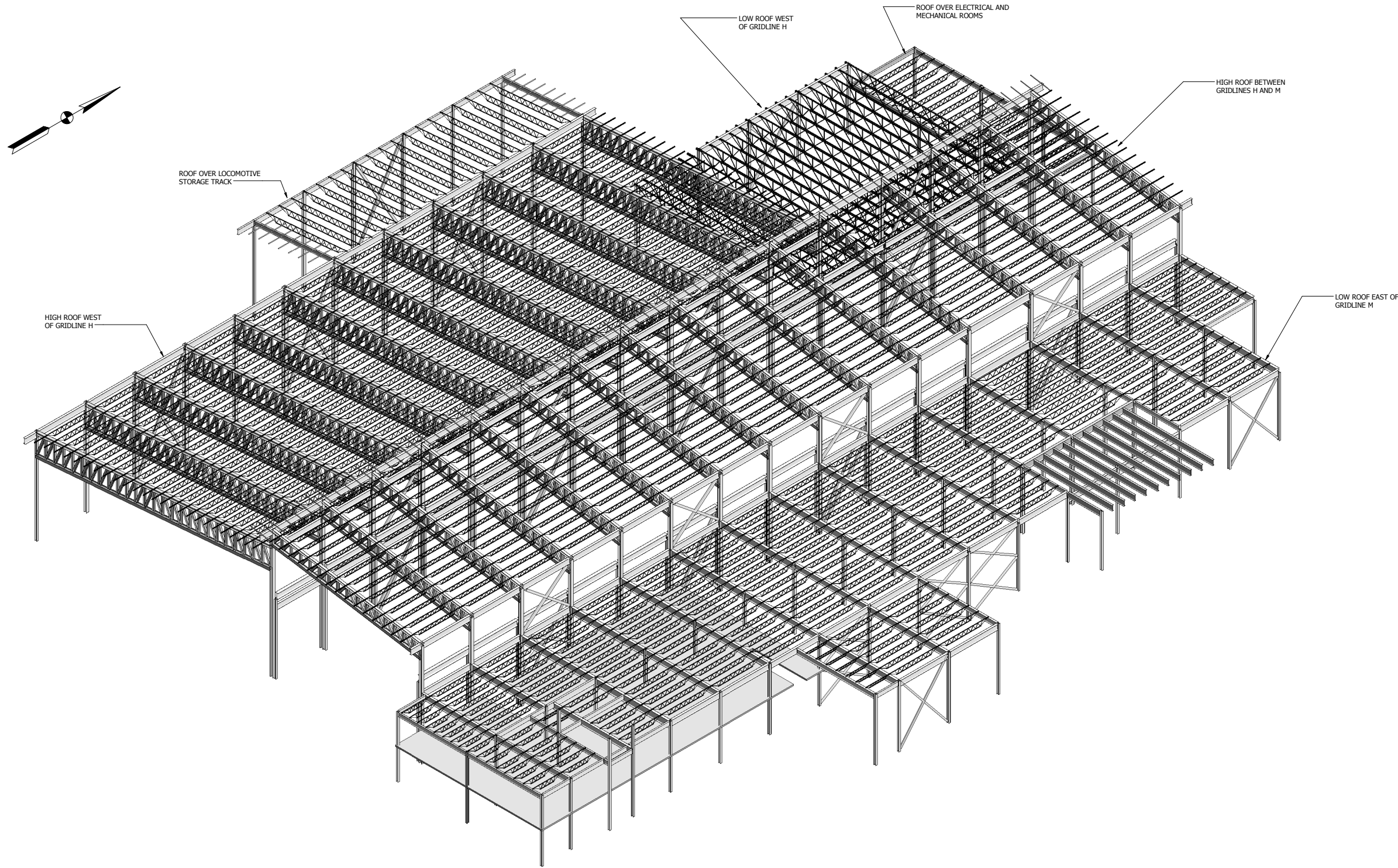
NICTD - WEST LAKE CORRIDOR - MP 68.46

PROJECT NAME
ISOMETRIC VIEW - I

FILENAME
SCALE

SHEET

307 OF 361



1 ROOF FRAMING (WITHOUT T/O STAIRWELL)

NOT FOR CONSTRUCTION SERIES ST-6902



ISSUE	DATE	DESCRIPTION



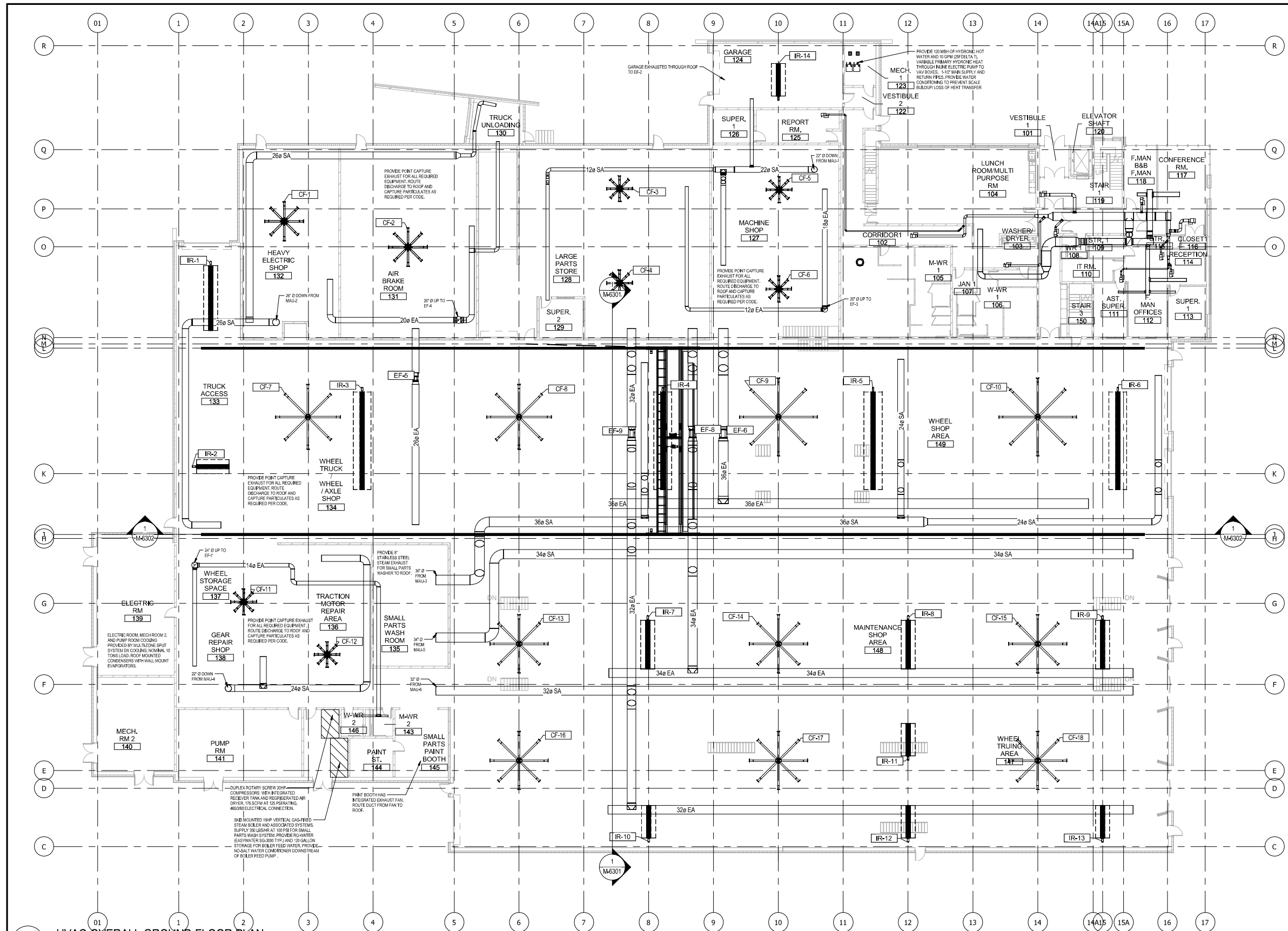
DYER TO HAMMOND, INDIANA

DESIGNED: SKJ
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CHECKED: CVAN
DATE: 05/17/17

NICTD - WEST LAKE CORRIDOR - MP 68.46
PROJECT NAME
ISOMETRIC VIEW - II

FILENAME	SHEET
SCALE	308 OF 361

PLOT DATE: 19-Jul-17 4:04:13 PM



1 HVAC-OVERALL GROUND FLOOR PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-6101



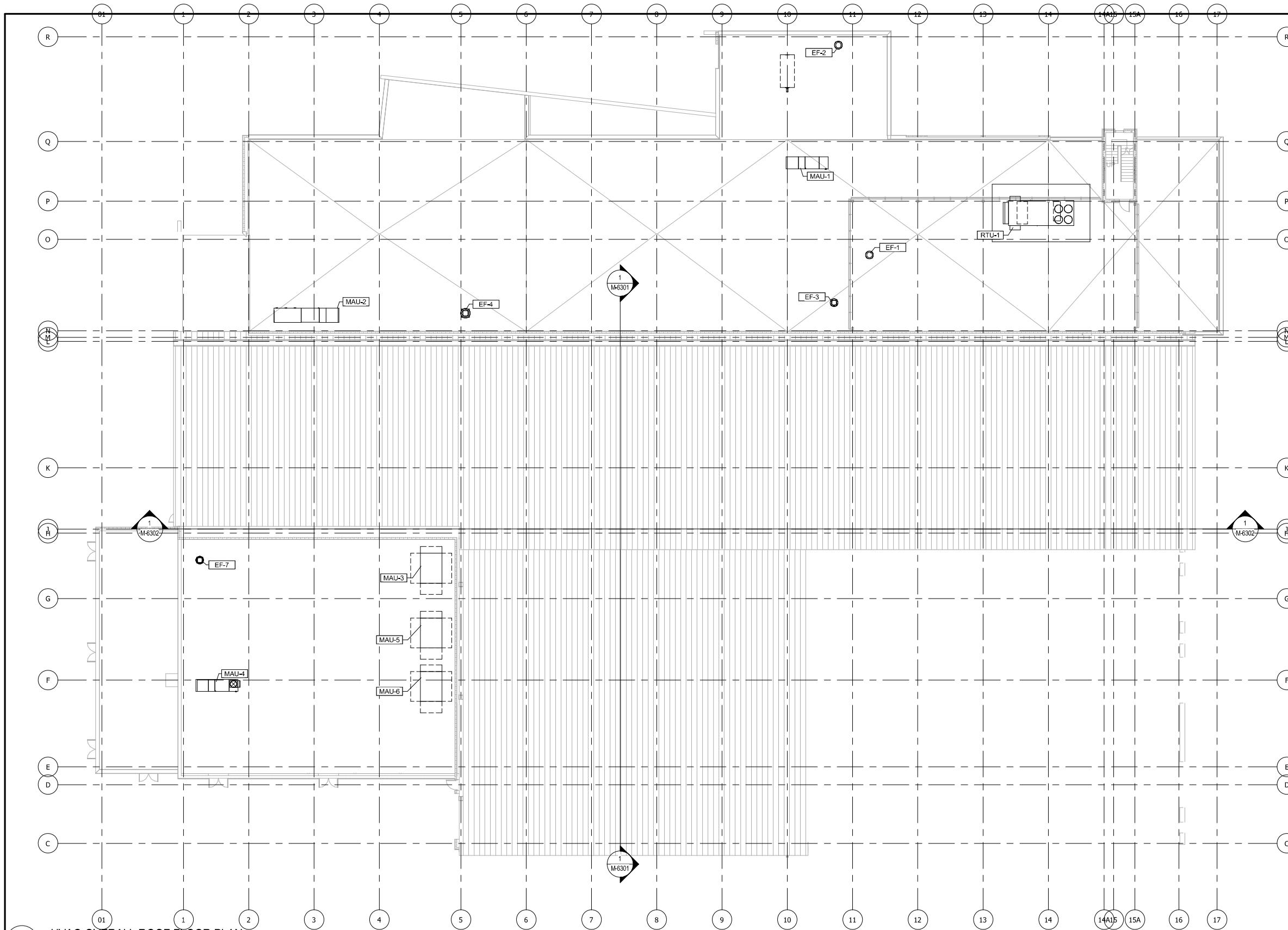
DYER TO HAMMOND, INDIANA

DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7,36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-OVERALL GROUND FLOOR PLAN	
FILENAME	SHEET
SCALE	309 OF 361

PLOT DATE: 7/19/2017 4:02:53 PM

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1 HVAC-OVERALL ROOF FLOOR PLAN
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-6102

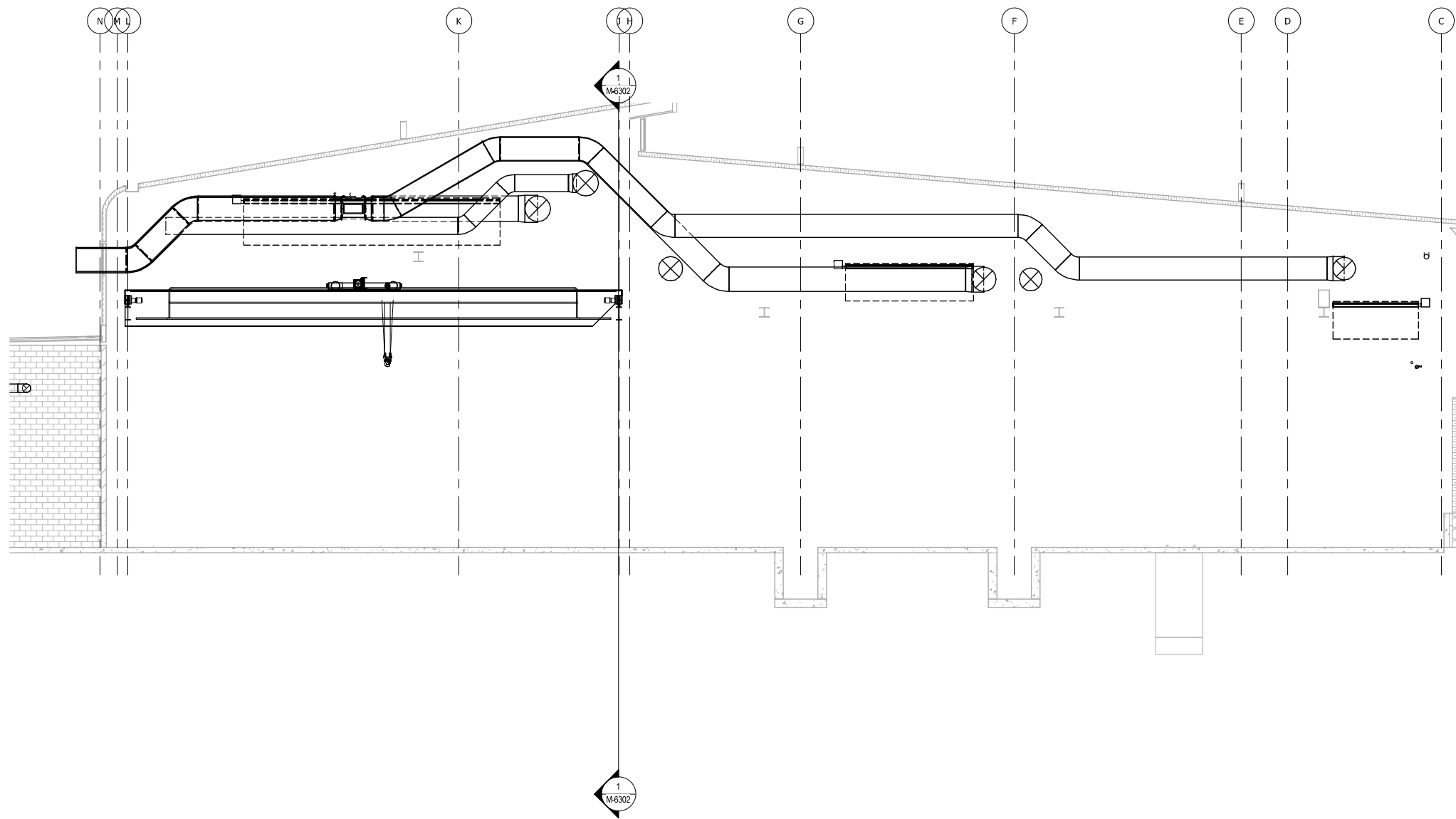


DYER TO HAMMOND, INDIANA

DESIGNED: ZEA
DRAWN: ZEA
CHECKED: ESA
DATE: 07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-OVERALL ROOF PLAN	
FILENAME	SHEET
SCALE 1/16" = 1'-0"	310 OF 361

PLOT DATE: 7/19/2017 4:02:54 PM



1 HIGH BAY HVAC COORDINATION CROSS-SECTION
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES **M-6301**



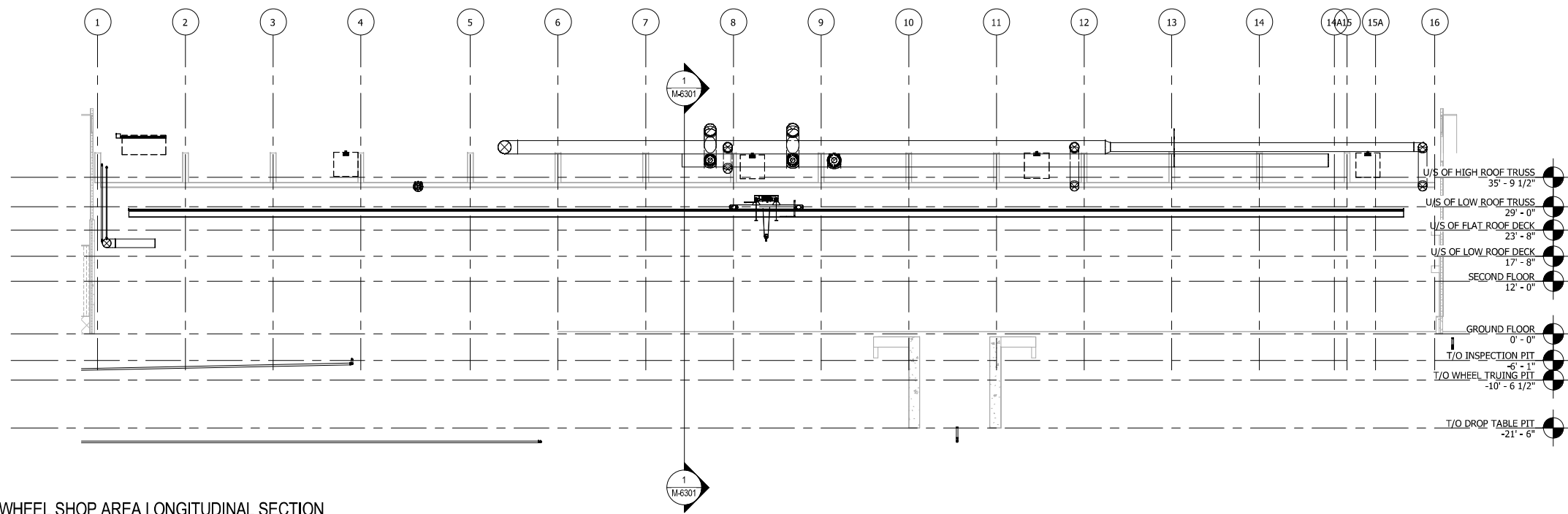
ISSUE	DATE	DESCRIPTION



DESIGNED:	ZEA
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CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-CROSS SECTIONS	
FILENAME	SHEET
SCALE	311 OF 361
1/8" = 1'-0"	

PLOT DATE: 7/19/2017 4:02:54 PM



1 WHEEL SHOP AREA LONGITUDINAL SECTION
1/16" = 1'-0"

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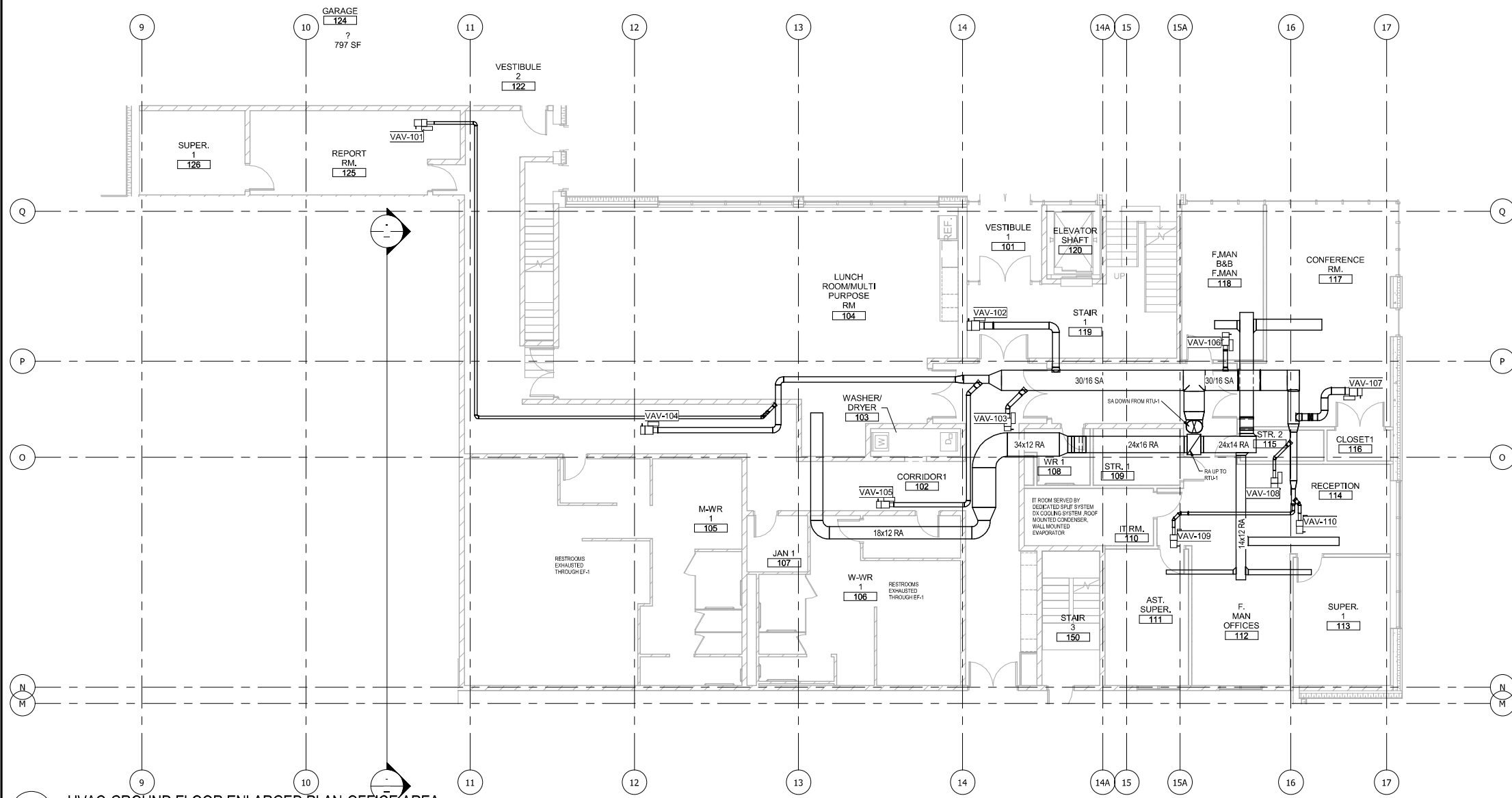
ISSUE	DATE	DESCRIPTION



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CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-LONGITUDINAL SECTIONS	
FILENAME	SHEET
SCALE	312 OF 361
1/16" = 1'-0"	

PLOT DATE: 7/19/2017 4:02:55 PM



1 HVAC-GROUND FLOOR ENLARGED PLAN-OFFICE AREA
1/8" = 1'-0"

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ISSUE	DATE	DESCRIPTION



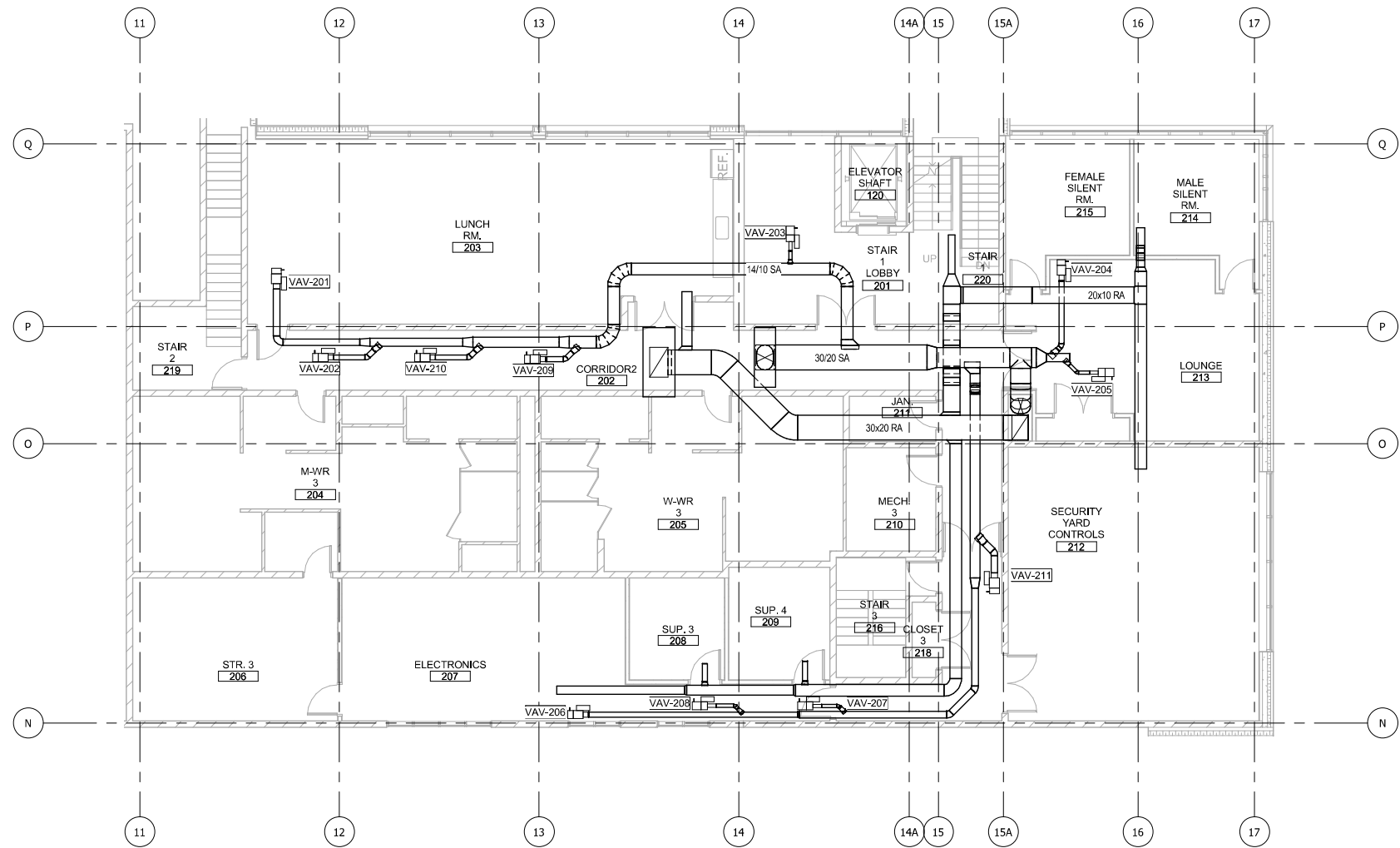
DYER TO HAMMOND, INDIANA

DESIGNED:	ZEA
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CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-GROUND FLOOR ENLARGED PLAN-OFFICE AREA	
FILENAME	SHEET
SCALE	313 OF 361

PLOT DATE: 7/19/2017 4:02:56 PM

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1 HVAC-SECOND FLOOR ENLARGED PLAN-OFFICE AREA
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-6402



ISSUE	DATE	DESCRIPTION

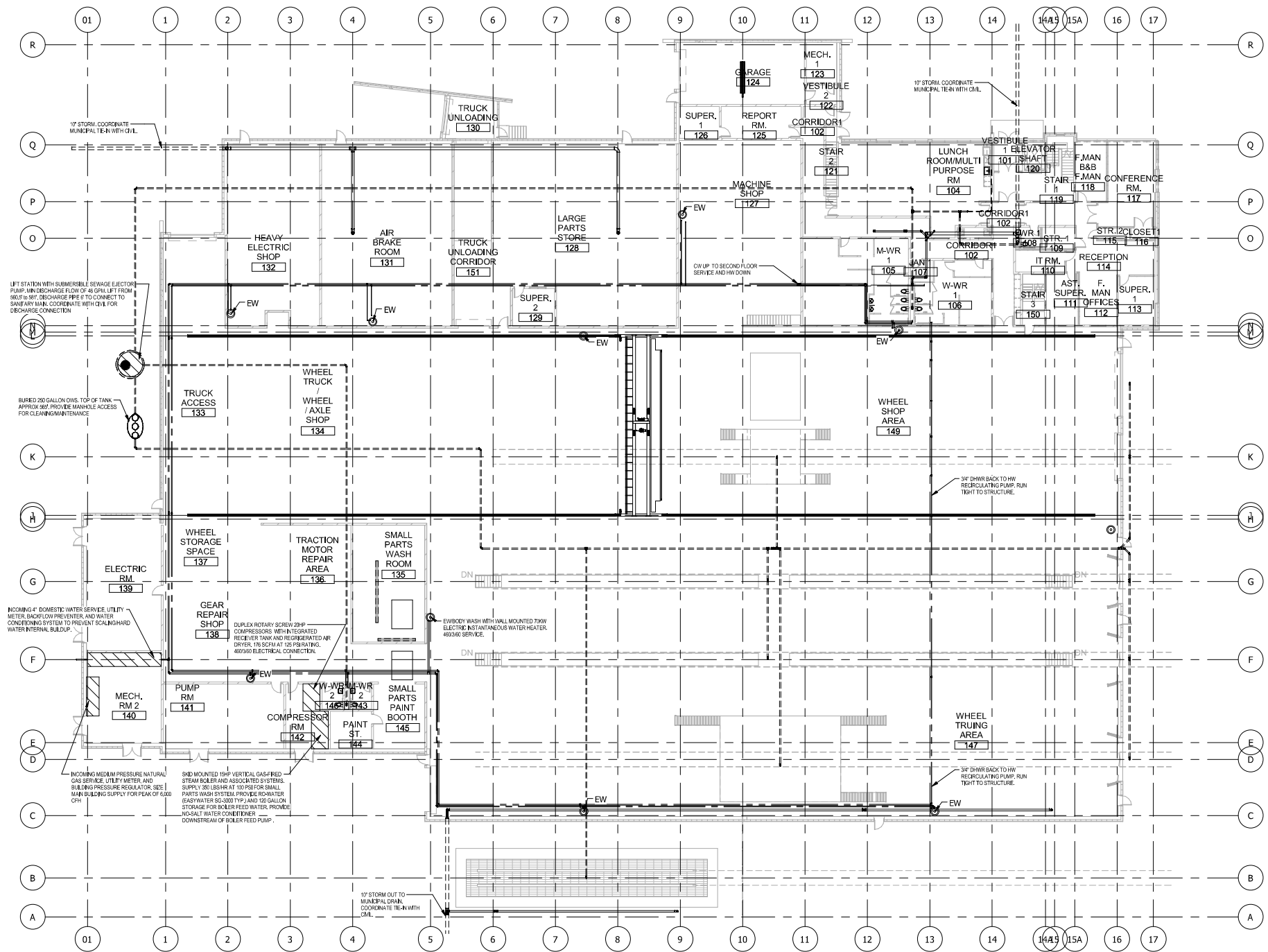


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DRAWN:	SCB
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY HVAC-SECOND FLOOR ENLARGED PLAN-OFFICE AREA	
FILENAME	SHEET
SCALE	314 OF 361
1/8" = 1'-0"	

PLOT DATE: 7/19/2017 4:02:57 PM



1 PLUM-OVERALL GROUND FLOOR PLAN
3/64" = 1'-0"

NOT FOR CONSTRUCTION SERIES MP-6101



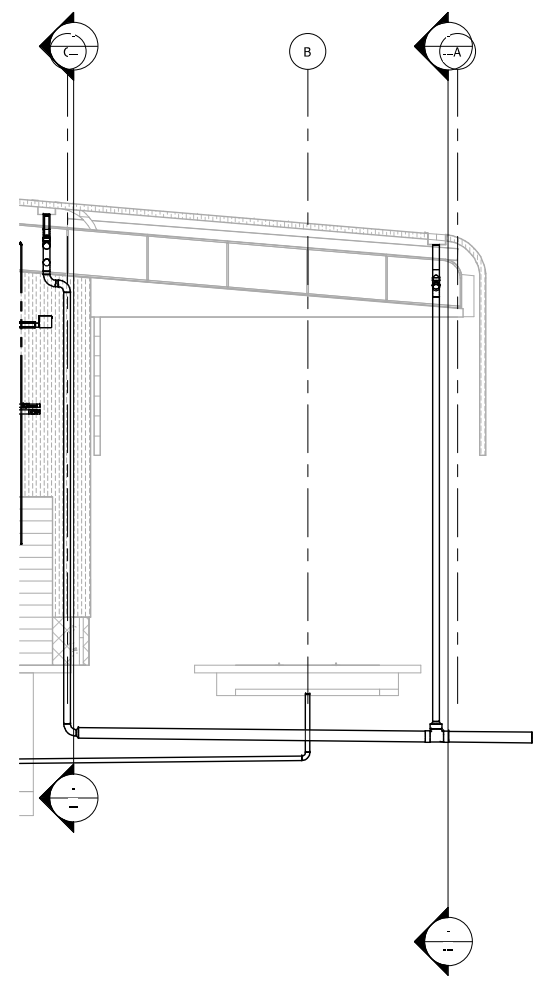
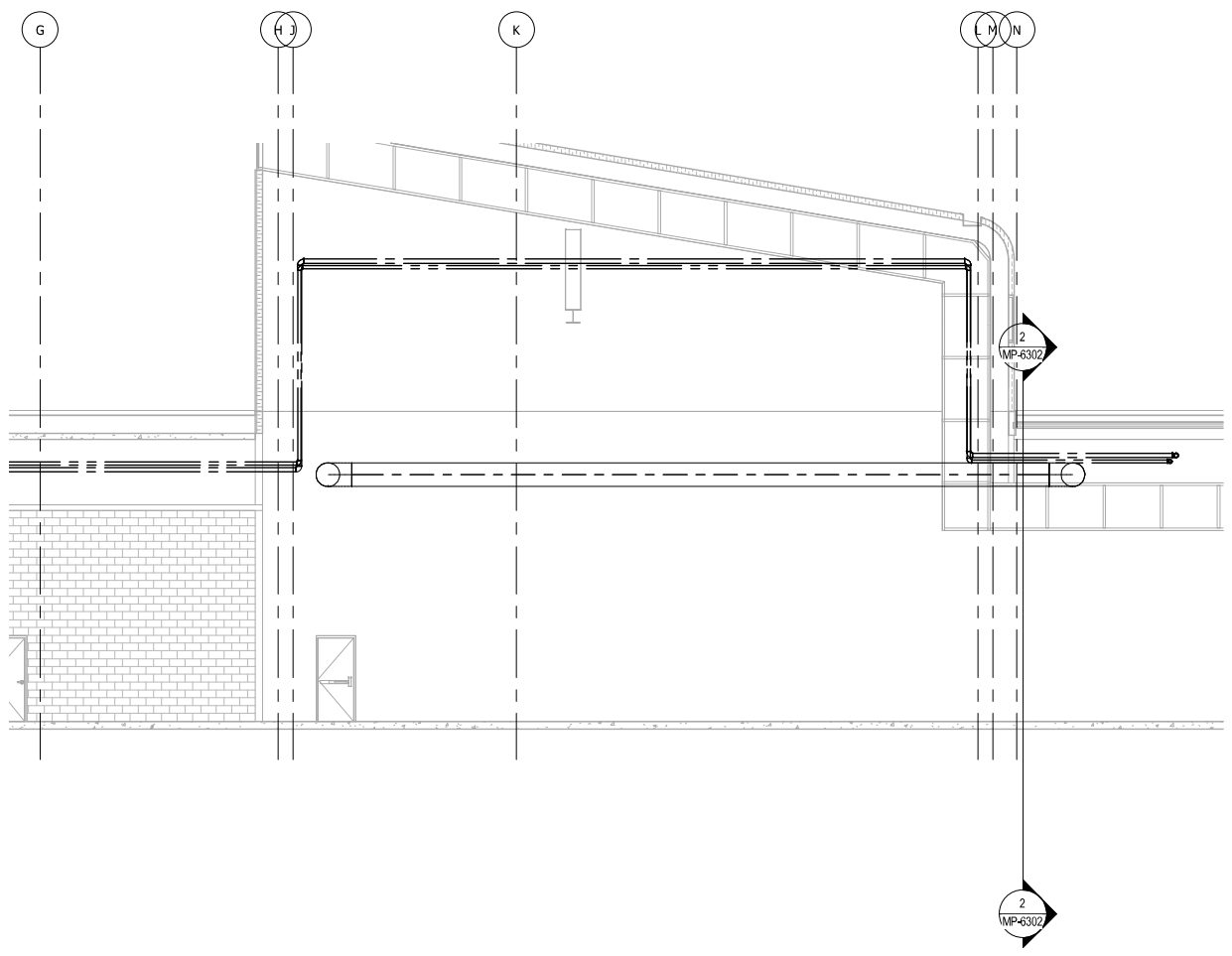
DYER TO HAMMOND, INDIANA

DESIGNED: ZEA
DRAWN: ZEA
CHECKED: ESA
DATE: 07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY PLUMBING-OVERALL GROUND FLOOR PLAN	
FILENAME	SHEET
SCALE: 3/64" = 1'-0"	315 OF 361

PLOT DATE: 7/21/2017 10:39:40 AM

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1 HIGH BAY PLUMBING CROSSOVER
1/8" = 1'-0"

2 COVERED STORAGE ROOF DRAINS
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES **MP-6301**



ISSUE	DATE	DESCRIPTION



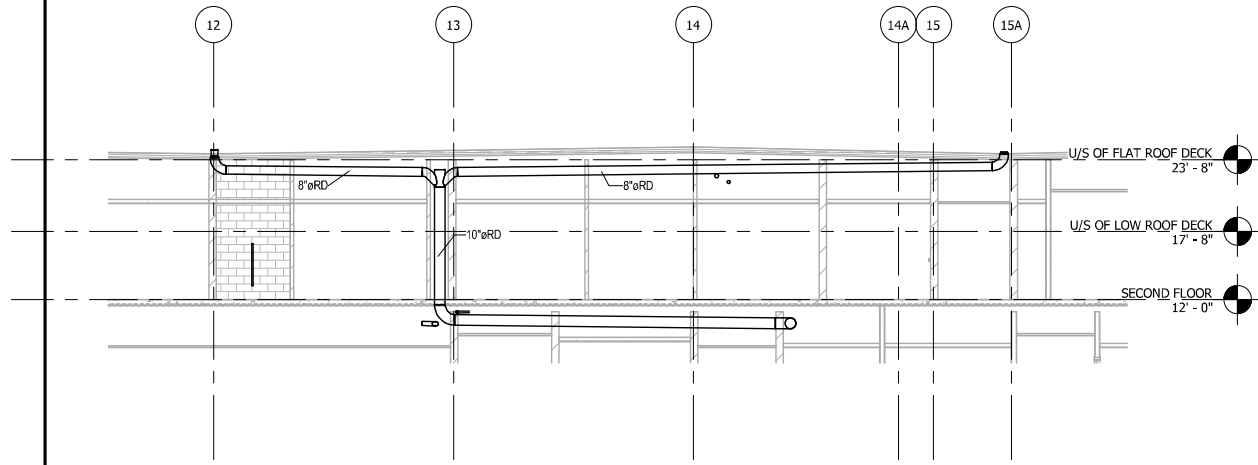
DYER TO HAMMOND, INDIANA

DESIGNED:	ZEA
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DATE:	07/212017

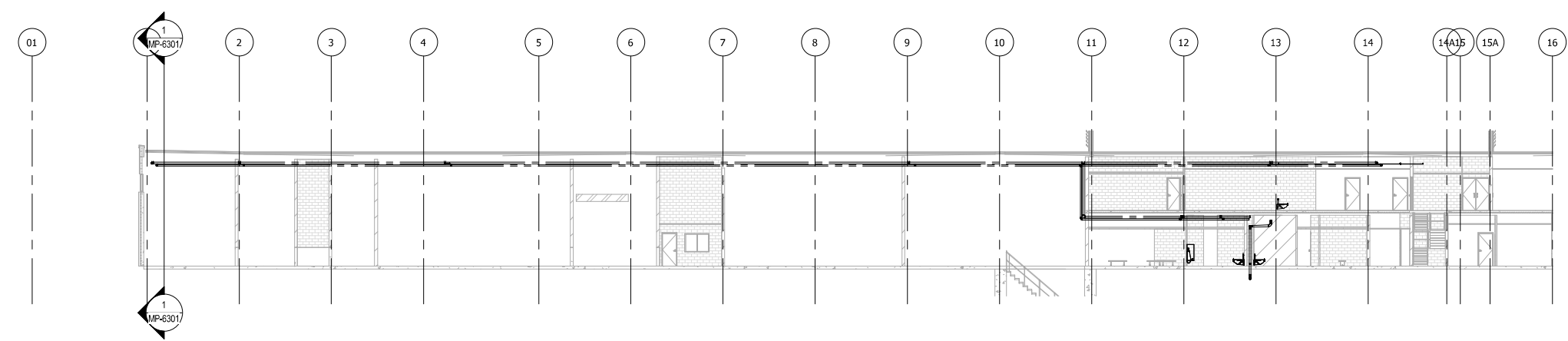
MCTD - WEST LAKE CORRIDOR - MP MP 7.36
Project Name
**MAINTENANCE & STORAGE
FACILITY PLUMBING-CROSS
SECTIONS**

FILENAME		SHEET	316 OF 361
SCALE	1/8" = 1'-0"		

PLOT DATE: 7/19/2017 4:02:59 PM



1 OFFICE AND ADMIN ROOF DRAIN SECTION
1/8" = 1'-0"



2 WORKSHOP PLUMBING LAYOUT
1/16" = 1'-0"

NOT FOR CONSTRUCTION SERIES MP-6302



ISSUE	DATE	DESCRIPTION



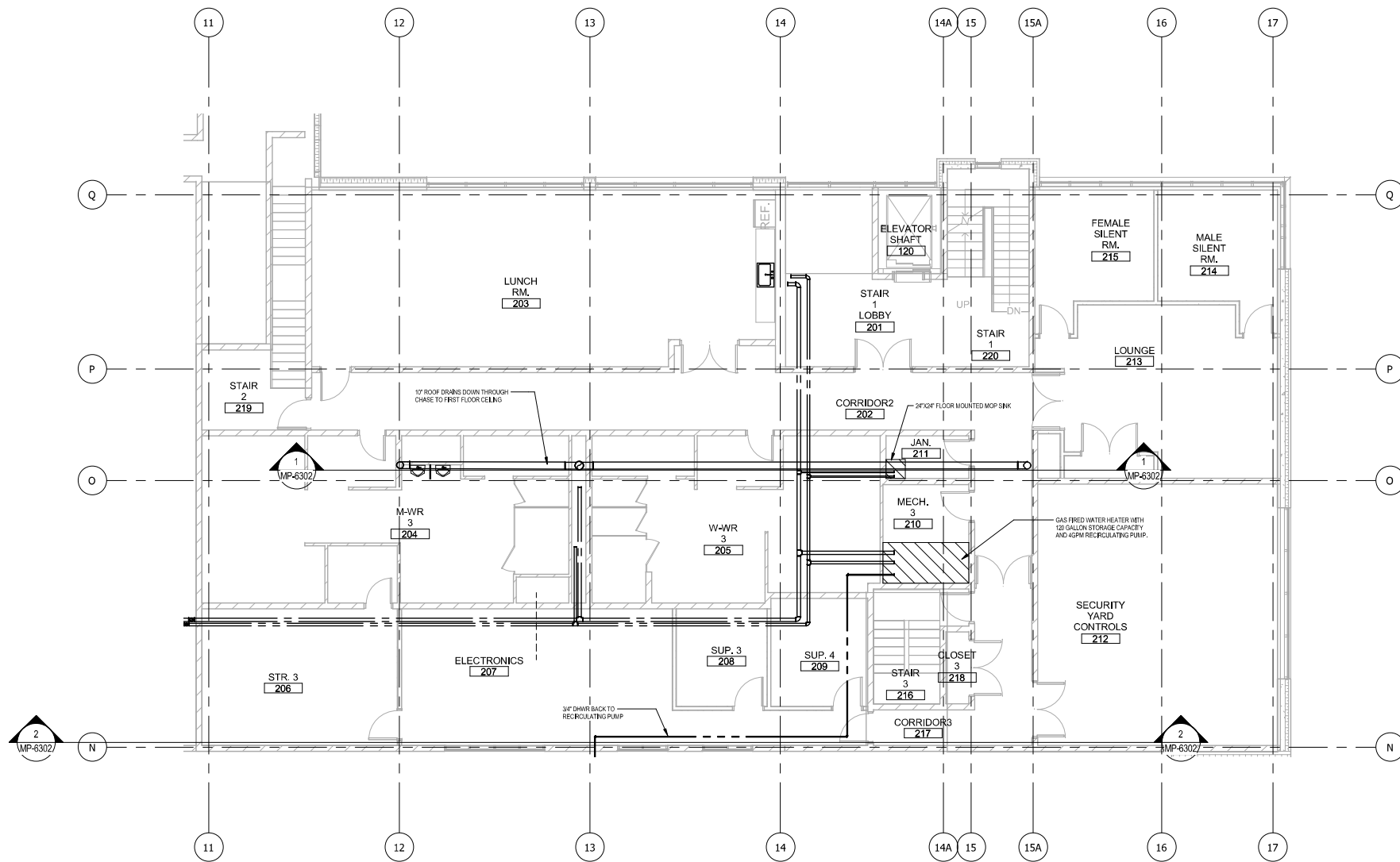
DYER TO HAMMOND, INDIANA

DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36
Project Name
**MAINTENANCE & STORAGE
PLUMBING-LONGITUDINAL
SECTIONS**

FILENAME		SHEET	317 OF 361
SCALE	As indicated		

PLOT DATE: 7/19/2017 4:03:02 PM



1 PLUM-SECOND FLOOR ENLARGED PLAN-OFFICE AREA
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES MP-6401



ISSUE	DATE	DESCRIPTION

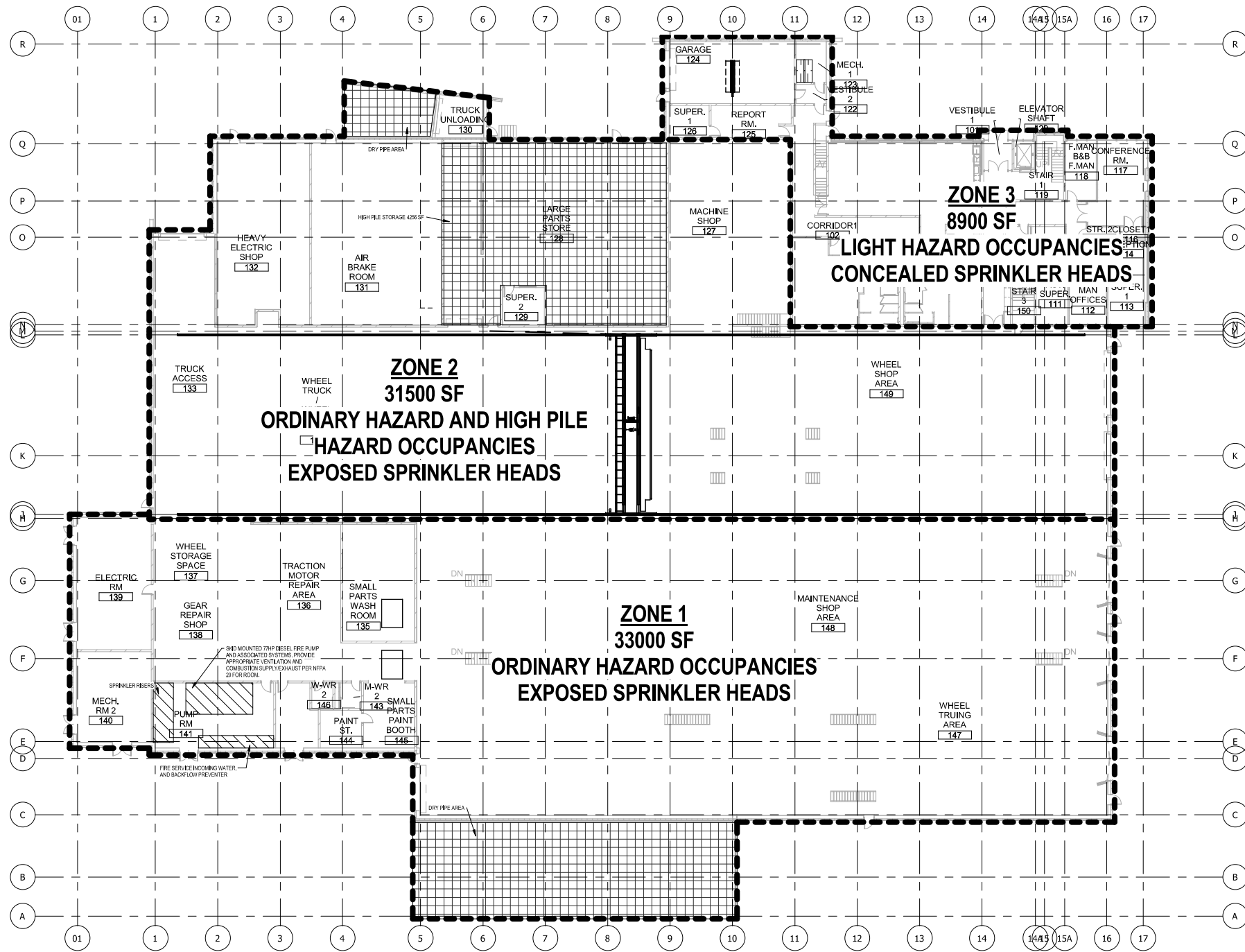


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DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY PLUMBING-SECOND FLOOR ENLARGED PLAN-OFFICE	
FILENAME	SHEET
SCALE	318 OF 361
1/8" = 1'-0"	

PLOT DATE: 7/19/2017 4:03:03 PM



1 FIRE-OVERALL GROUND FLOOR PLAN
3/64" = 1'-0"

NOT FOR CONSTRUCTION SERIES MF-6101



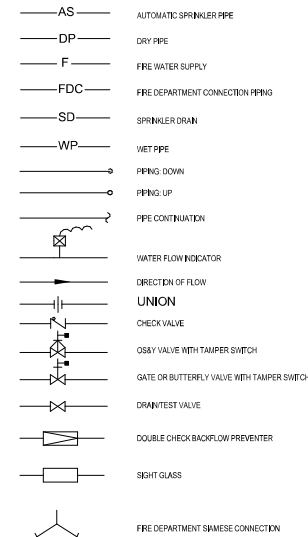
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CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.36 Project Name	
MAINTENANCE & STORAGE FACILITY FIRE-OVERALL GROUND FLOORPLAN	
FILENAME	SHEET
SCALE	3/64" = 1'-0"
319 OF 361	

PLOT DATE: 7/21/2017 10:39:39 AM

SYMBOLS



GENERAL NOTES

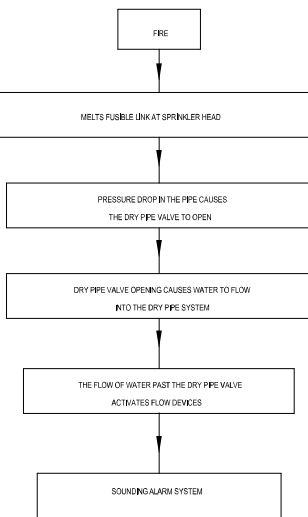
- A. THE BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM UNLESS NOTED OTHERWISE.
- B. THE WET PIPE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED, DESIGN DENSITIES AND SPRINKLER HEAD COVERAGE ARE LISTED IN DIVISION 21 SPECIFICATIONS.
- C. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE NFPA-13 STANDARD.
- D. ALL PIPING SHALL BE CONCEALED IN AREAS WITH FINISHED CEILINGS WHERE POSSIBLE.
- E. ALL FLOW TEST DRAINS SHALL BE PIPED TO A SUITABLE DRAIN THAT DISCHARGES TO THE EXTERIOR OF THE BUILDING OR AS INDICATED ON THE DRAWINGS.
- F. AUXILIARY DRAINS SHALL BE PROVIDED, WHERE REQUIRED, FOR SYSTEM DRAINAGE.
- G. THE FIRE PROTECTION DEVICES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
- H. COORDINATE FIRE SPRINKLER WORK WITH ARCHITECTURAL (REFLECTED CEILING PLAN), ELECTRICAL, LIGHTING, HVAC (DUCTWORK AND PIPING), AND PLUMBING, BEFORE COMMENCING WORK.
- I. ALL SYSTEM CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED.
- J. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR COSTS, PERMIT FEES AND EQUIPMENT REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM, AS INDICATED IN THE CONTRACT DOCUMENTS.
- K. CONTRACTOR SHALL PREPARE AND SUBMIT SPRINKLER PLANS AND PRODUCT DATA SHEETS THAT CONTAIN SUFFICIENT DETAIL FOR THE AUTHORITIES HAVING JURISDICTION TO EVALUATE THE HAZARD AND EFFECTIVENESS OF THE SPRINKLER SYSTEM.
- L. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL BE IN ACCORDANCE WITH NFPA STANDARDS, THE STATE OF INDIANA FIRE CODE, AND OTHER LOCAL FIRE CODE AUTHORITY HAVING JURISDICTION.
- M. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SUBMITTALS SHALL BE SIGNED AND STAMPED BY A QUALIFIED FIRE PROTECTION PROFESSIONAL ENGINEER.
- N. ANY CONFLICTS WHICH OCCUR DUE TO LACK OF COORDINATION OF THE SPRINKLER CONTRACTOR WITH OTHER CONTRACTORS SHALL BE CORRECTED BY THE SPRINKLER CONTRACTOR WITH NO FURTHER EXPENSE TO OWNER.
- O. SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE NFPA-13 AND BY THE AUTHORITY HAVING JURISDICTION BEFORE COMMENCING THE SPRINKLER SYSTEMS.

ABBREVIATIONS

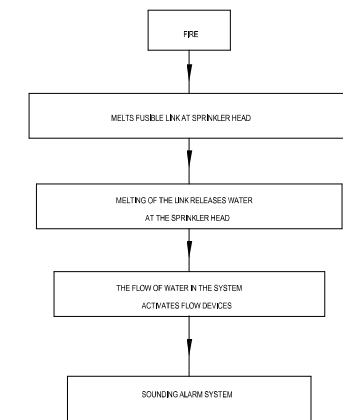
- AS AUTOMATIC SPRINKLER PIPING
- DN DOWN
- DP DRY PIPE PIPING
- DWG DRAWING
- CONT CONTINUATION
- F FIRE WATER SUPPLY
- FDC FIRE DEPARTMENT CONNECTION
- FHV FIRE HOSE VALVE
- SD SPRINKLER ORAN
- OS&Y OUTSIDE SCREW & YORE TYPICAL
- TYP TYPICAL
- WP WET PIPE

FIRE PROTECTION BASIS OF DESIGN

OCCUPANCY/CONSTRUCTION TYPE	HIGH FILE - EXTRA HAZARD
GRMS/F REQUIRED	- 0.342/2000
SPRINKLER DURATION	- 100 MINUTES
MAXIMUM AREA PER ZONE	- 52,000SF
FLOW ZONE WITH HOSE CONNECTION	- 1355 GPM

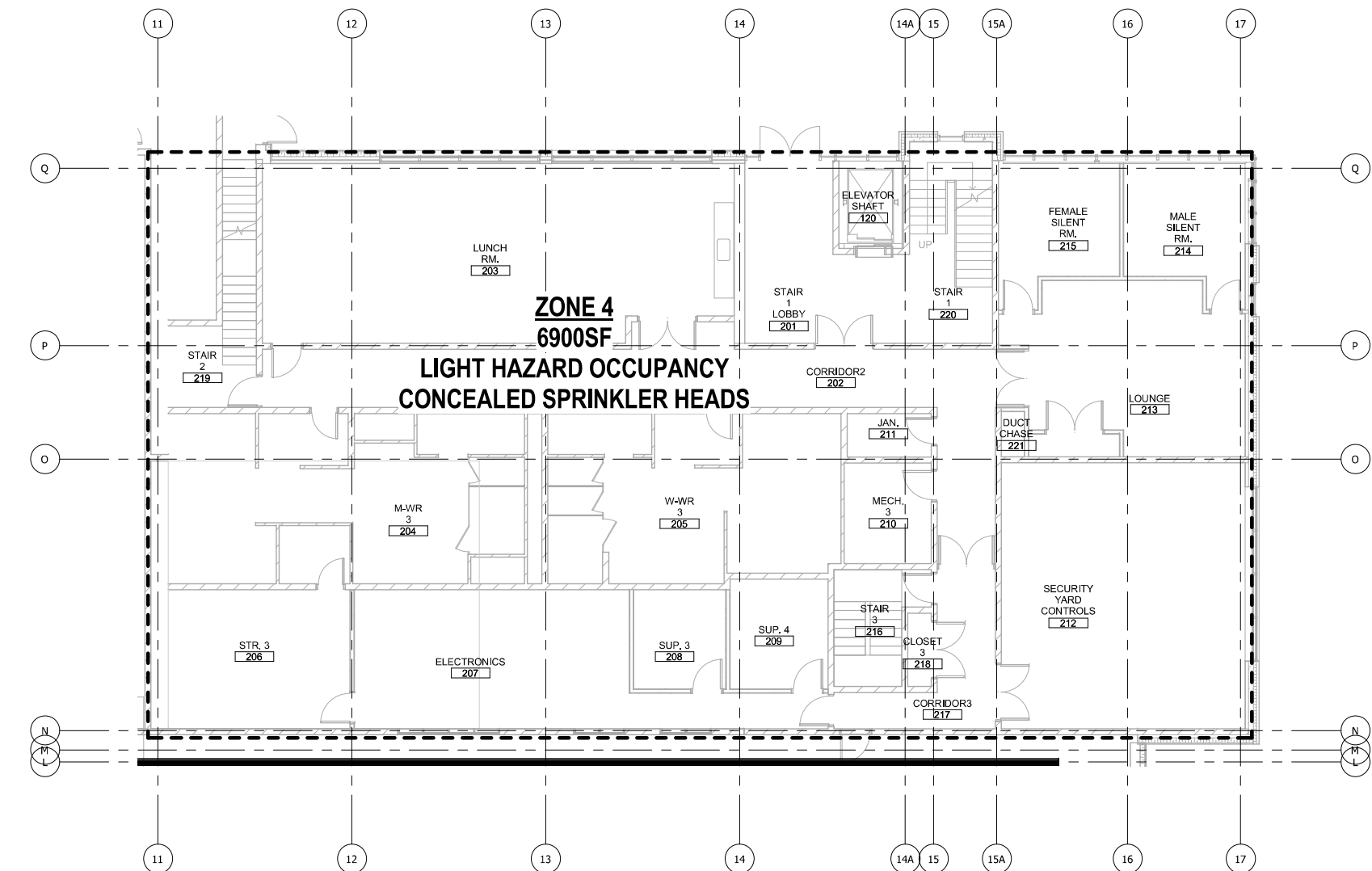


DRY PIPE SYSTEM OPERATIONAL DIAGRAM



WET PIPE SYSTEM OPERATIONAL DIAGRAM

2 FIRE PROTECTION GENERAL
NTS



1 FIRE-Enlarged Ground Floor Plan
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES MF-6102

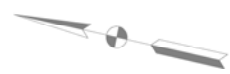
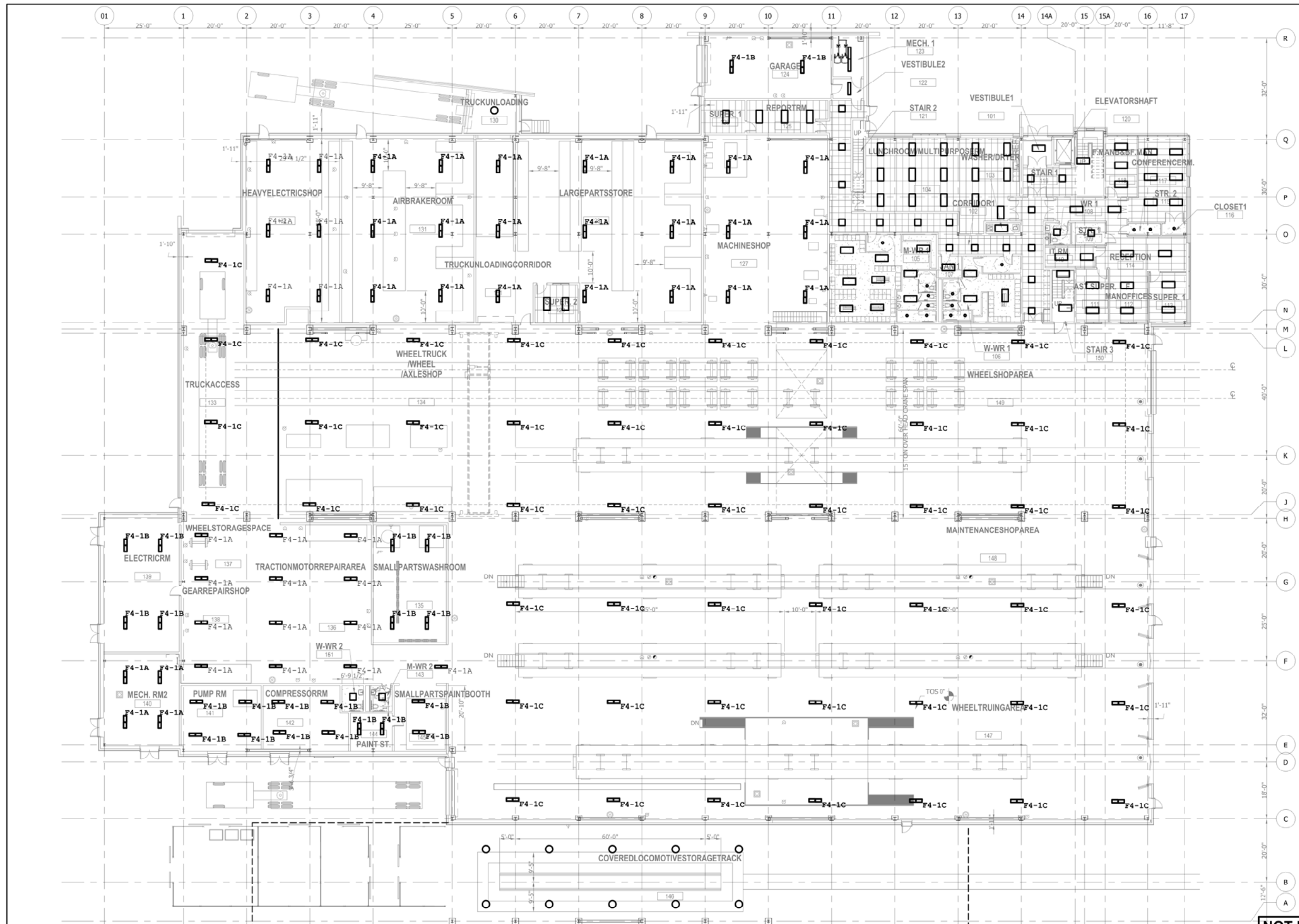


DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7,36 Project Name	
MAINTENANCE & STORAGE FIRE-GENERAL NOTES AND SECOND FLOOR ENLARGED PLAN	
FILENAME	SHEET
SCALE	320 OF 361

PLOT DATE: 7/19/2017 4:02:57 PM

- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-6602 FOR CABLE AND CONDUIT SCHEDULE.
 - SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



NOT FOR CONSTRUCTION SERIES E-6101

PLOT DATE: 07/19/2017 10:17:14 PM

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AAA Engineering, Ltd.
4323 W Irving Park Rd., Suite 200
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www.AAAEngineering.net

ISSUE	DATE	DESCRIPTION

NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304

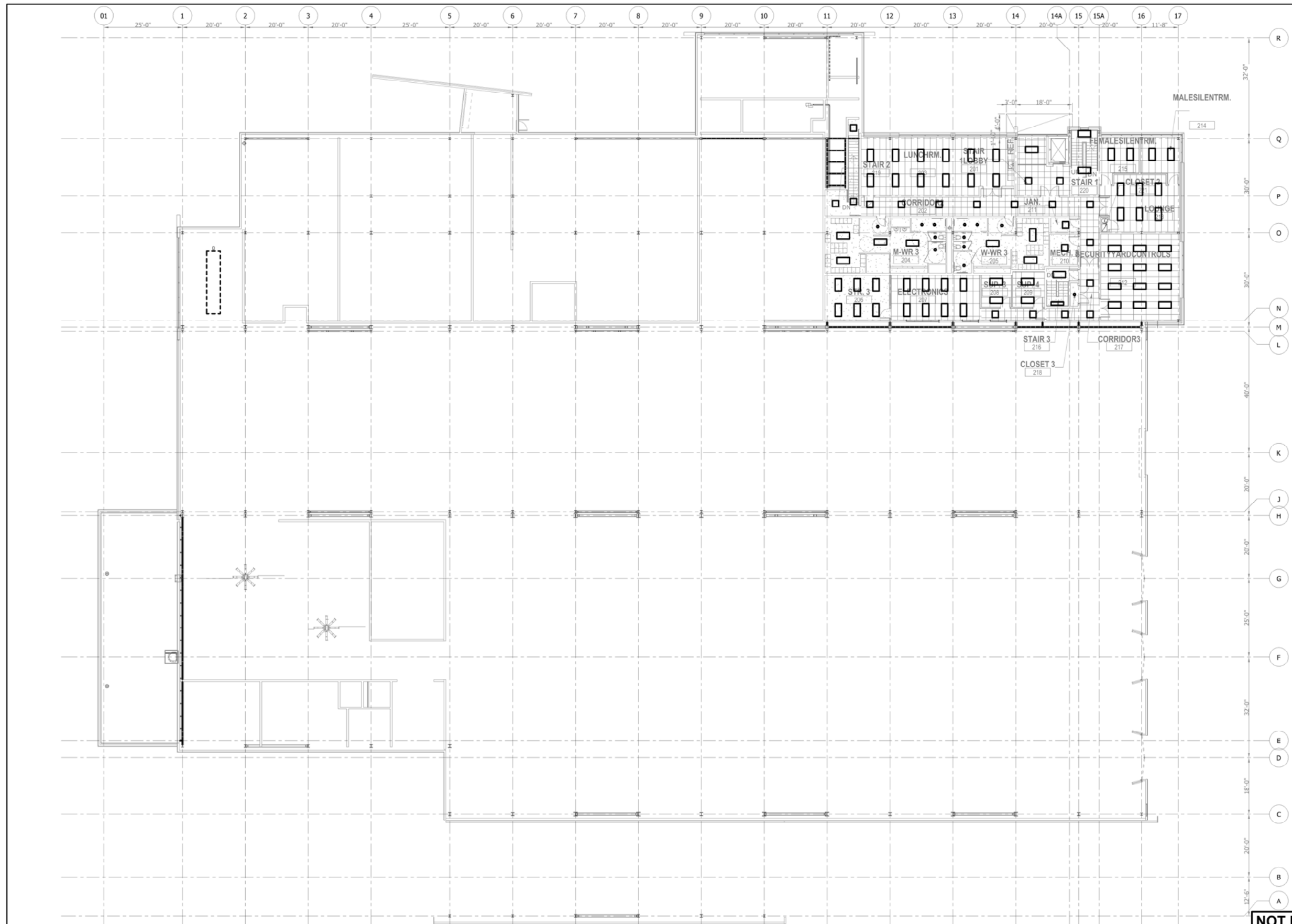
**WEST LAKE
CORRIDOR**
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICD - WEST LAKE CORRIDOR - MP 7.36 HAMMOND MAINTENANCE FACILITY		
GROUND FLOOR LIGHTING PLAN		
FILENAME	SHT_WL_E_HAMMSF_PL_01	SHEET
SCALE	1/16" = 1' - 0"	321 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-6602 FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



NOT FOR CONSTRUCTION SERIES E-6102

PLOT DATE: 07/19/2017 10:17:51 PM

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ISSUE	DATE	DESCRIPTION

NICTD
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 33 East Highway 12
 Chesterton, Indiana 46304

WEST LAKE CORRIDOR
 DYER TO HAMMOND, INDIANA

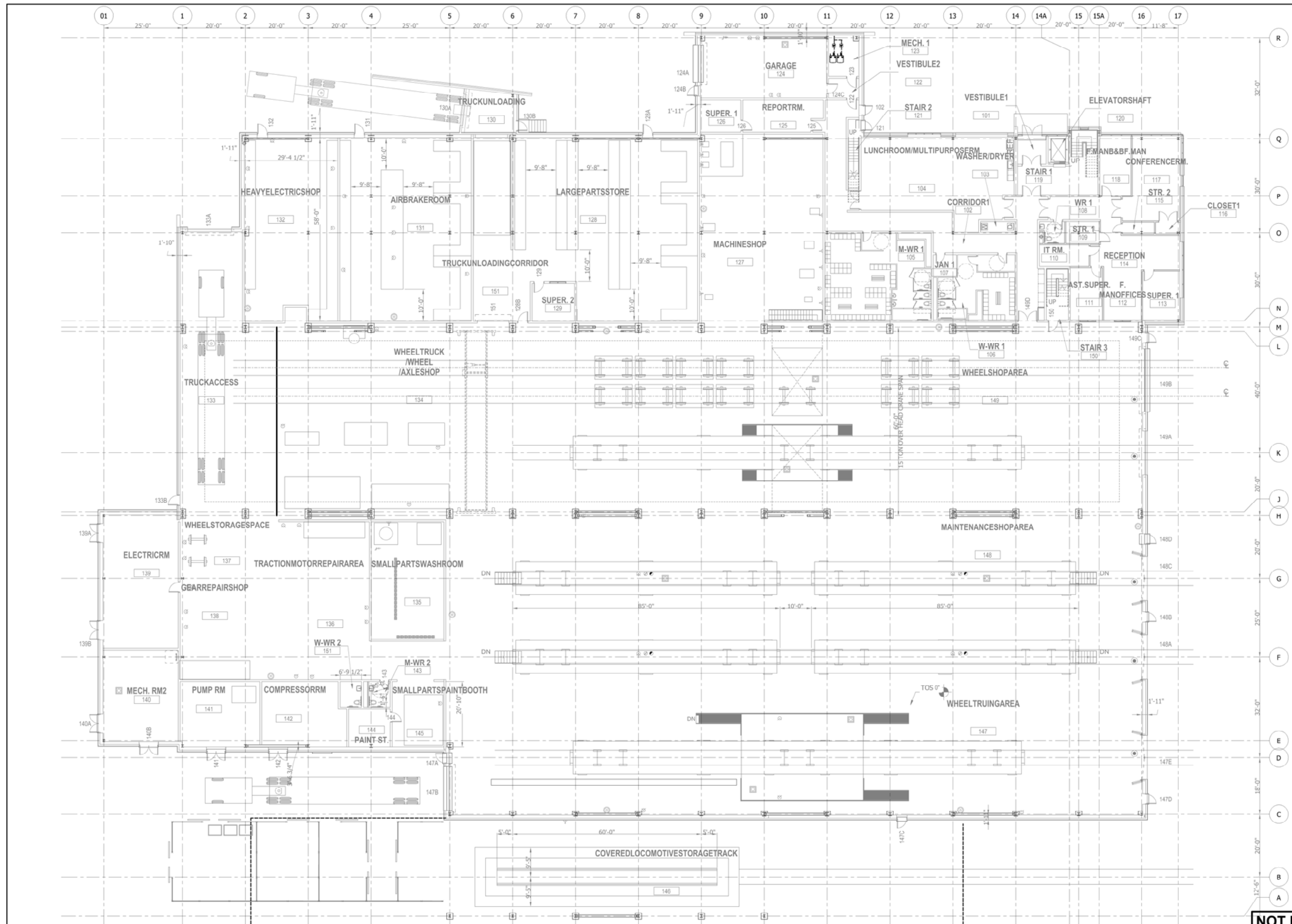
DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36
 HAMMOND MAINTENANCE FACILITY

2ND FLOOR LIGHTING PLAN

FILENAME	SHT_WL_E_HAMMSF_PL_02	SHEET	322 OF 361
SCALE	1/16" = 1' - 0"		

- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-6602 FOR CABLE AND CONDUIT SCHEDULE.



NOT FOR CONSTRUCTION SERIES E-6103

PLOT DATE: 07/19/2017 10:18:19 PM

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TRANSPORTATION DISTRICT
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Chesterton, Indiana 46304

**WEST LAKE
CORRIDOR**

DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

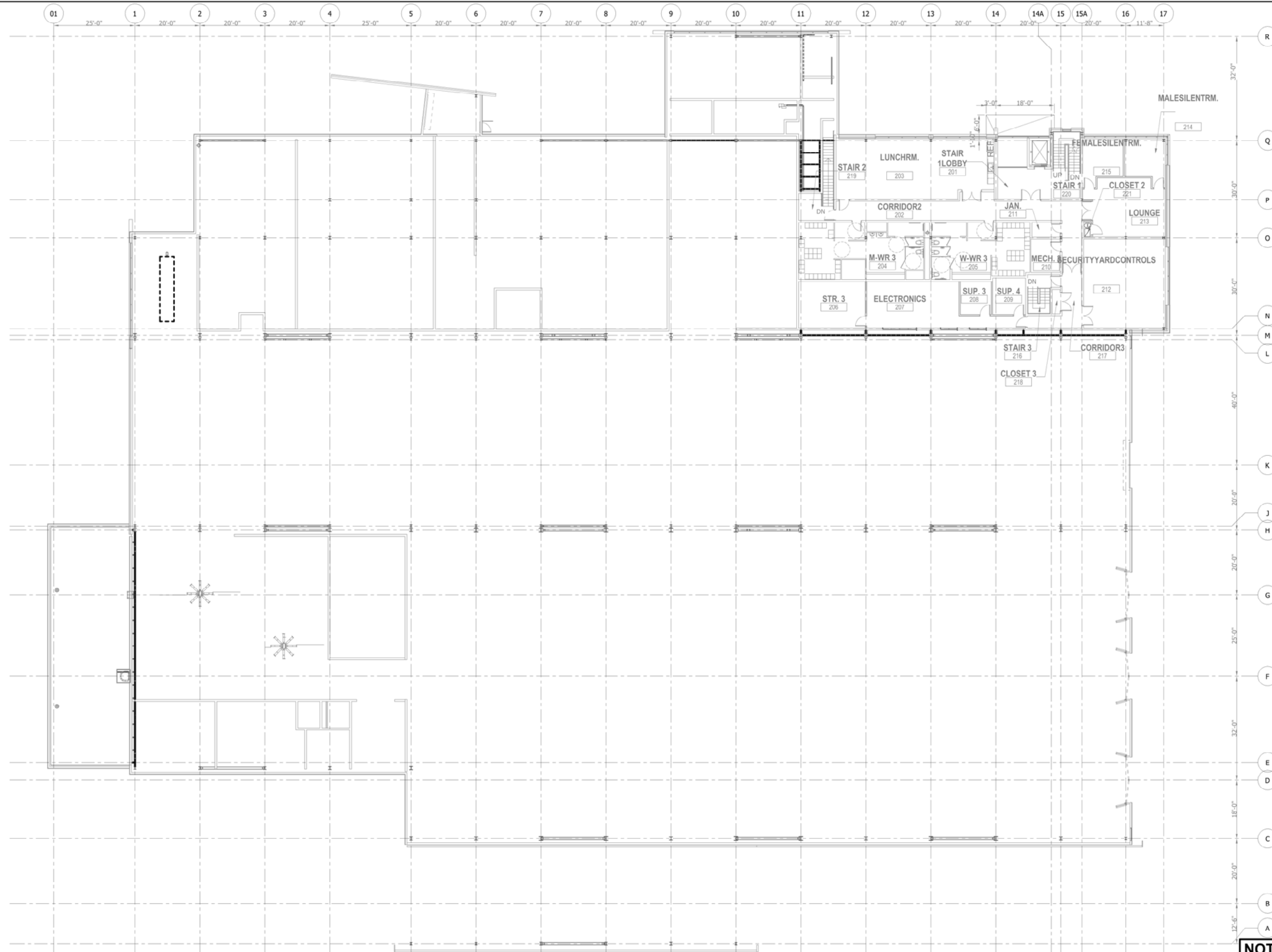
NICTD - WEST LAKE CORRIDOR - MP 7.36
HAMMOND MAINTENANCE FACILITY

GROUND FLOOR POWER PLAN

FILENAME	SHT_WL_E_HAMMSF_PL_03	SHEET	323 OF 361
SCALE	1/16" = 1' - 0"		

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-6602 FOR CABLE AND CONDUIT SCHEDULE.



NOT FOR CONSTRUCTION SERIES E-6104

PLOT DATE: 07/19/2017 10:18:54 PM

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ISSUE	DATE	DESCRIPTION

NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304

**WEST LAKE
CORRIDOR**
DYER TO HAMMOND, INDIANA

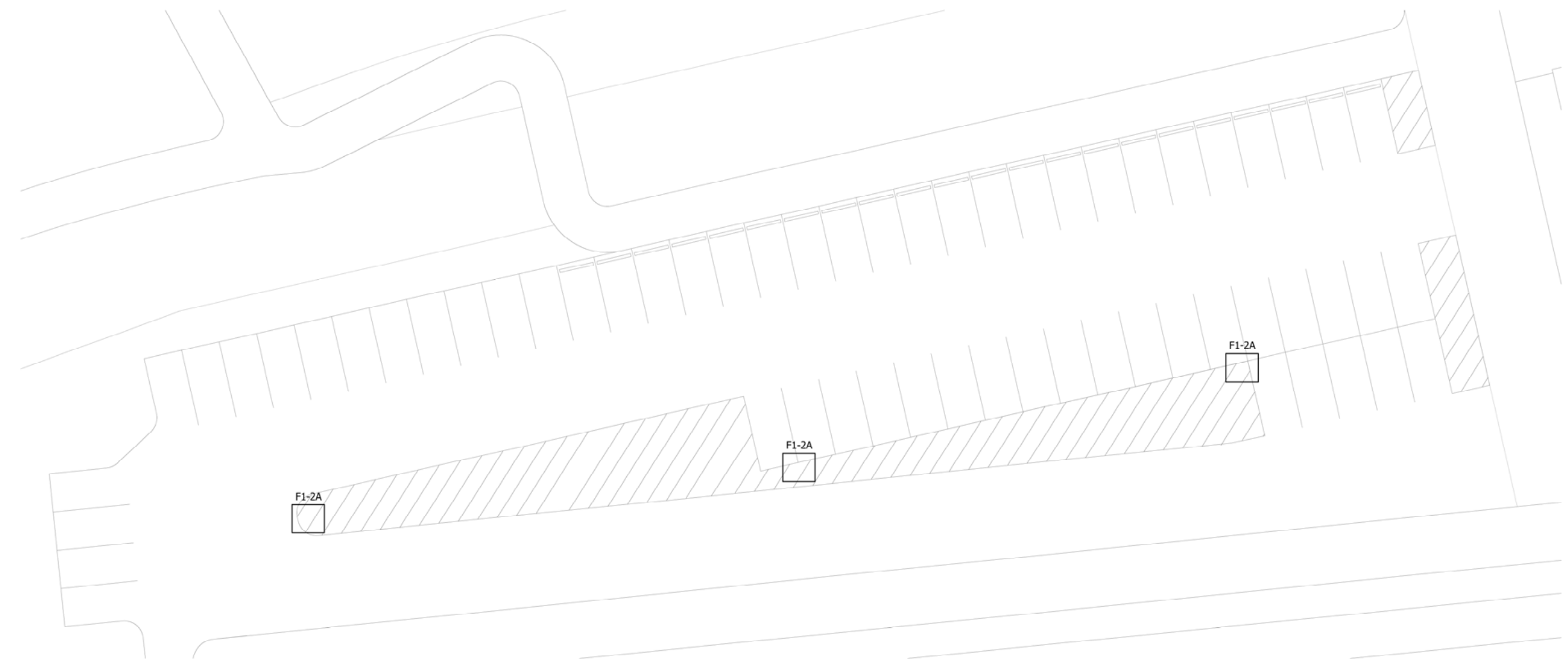
DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36
HAMMOND MAINTENANCE FACILITY

2ND FLOOR POWER PLAN

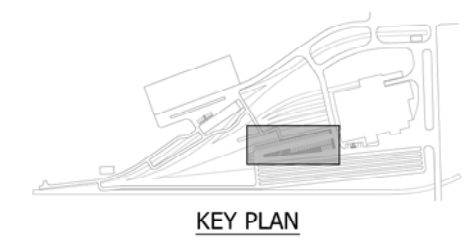
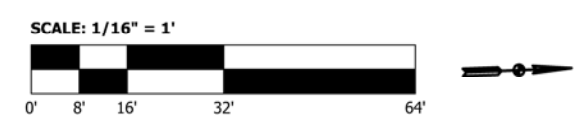
FILENAME	SHT_WL_E_HAMMSF_PL_04	SHEET	324 OF 361
SCALE	1/16" = 1' - 0"		

- NOTES:**
1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 2. SEE SHEET E-XXXX FOR CABLE AND CONDUIT SCHEDULE.
 3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



1
E-6105

**MAINTENANCE FACILITY
PARKING LOT LIGHTING PLAN**
SCALE: 1/16" = 1'-0"



NOT FOR CONSTRUCTION SERIES E-6105

PLOT DATE: 07/19/2017 10:19:33 PM

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www.AAAEngineering.net

ISSUE	DATE	DESCRIPTION

NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304

**WEST LAKE
CORRIDOR**
DYER TO HAMMOND, INDIANA

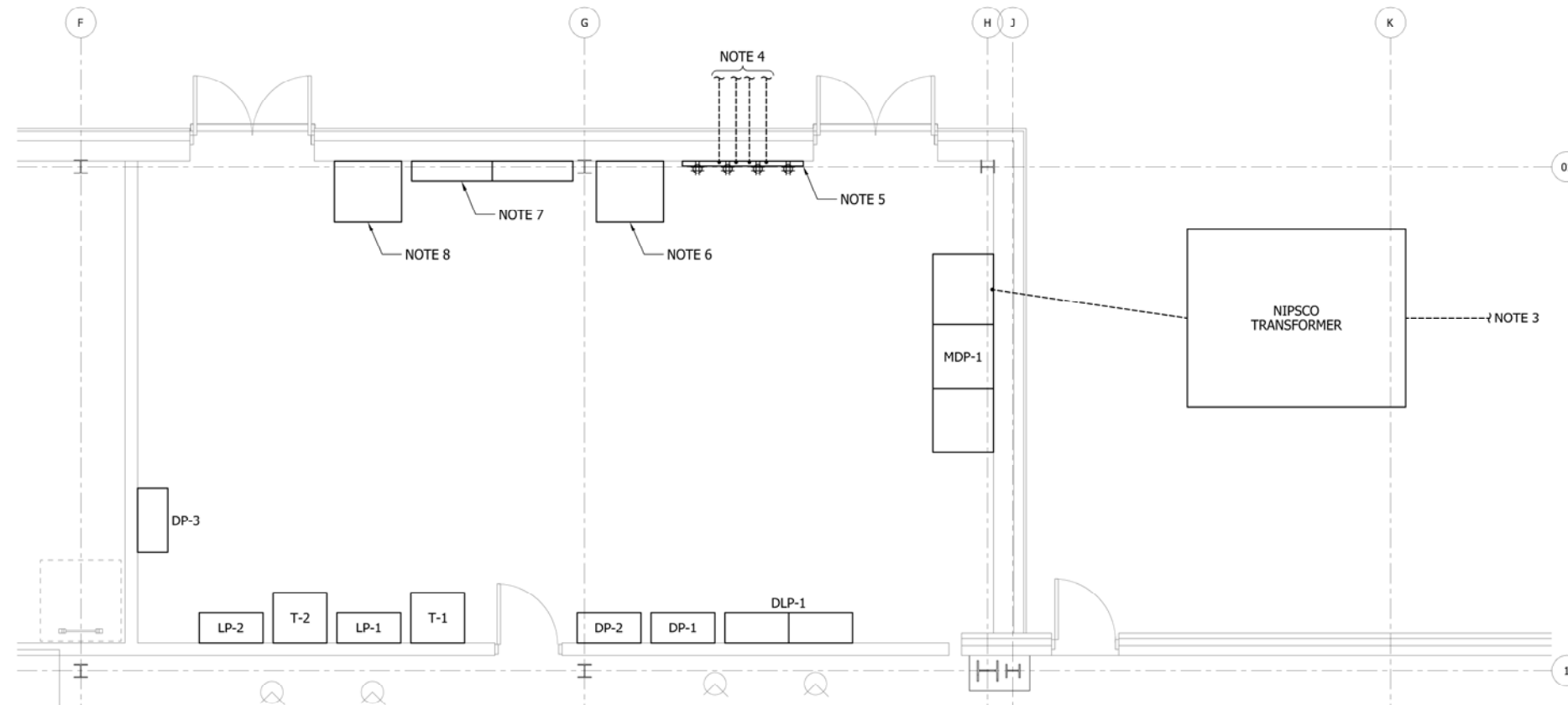
DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36
HAMMOND MAINTENANCE FACILITY

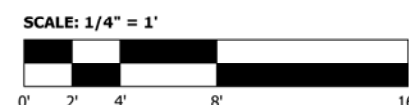
**MAINTENANCE FACILITY PARKING LOT
LIGHTING PLAN**

FILENAME	SHT_WL_E_HAMMSF_PL_05	SHEET	325 OF 361
SCALE	1/16" = 1' - 0"		

- NOTES:**
1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 2. SEE SHEET E-6602 FOR CABLE AND CONDUIT SCHEDULE.
 3. 2-4" PVC SCHEDULE 40 CONDUIT TO NIPSCO POLE.
 4. 4-4" PVC SCHEDULE 40 CONDUIT FOR DATA, COMMUNICATIONS, TELEPHONE, AND FIBER OPTIC CABLE.
 5. 3/4" x 4' x 6' FIRE RATED PLYWOOD BOARD FOR COMMUNICATIONS.
 6. COMMUNICATIONS RACK.
 7. FIRE ALARM CONTROL PANEL (FACP).
 8. PUBLIC ADDRESS SYSTEM RACK.



1 ELECTRICAL ROOM 139 ENLARGED PLAN
E-6401 SCALE: 1/4" = 1'-0"



NOT FOR CONSTRUCTION SERIES E-6401

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36 HAMMOND MAINTENANCE FACILITY		
ENLARGED ROOM PLANS		
FILENAME	SHT_WL_E_HAMMSF_LS_01	SHEET
SCALE	1/4" = 1' - 0"	326 OF 361



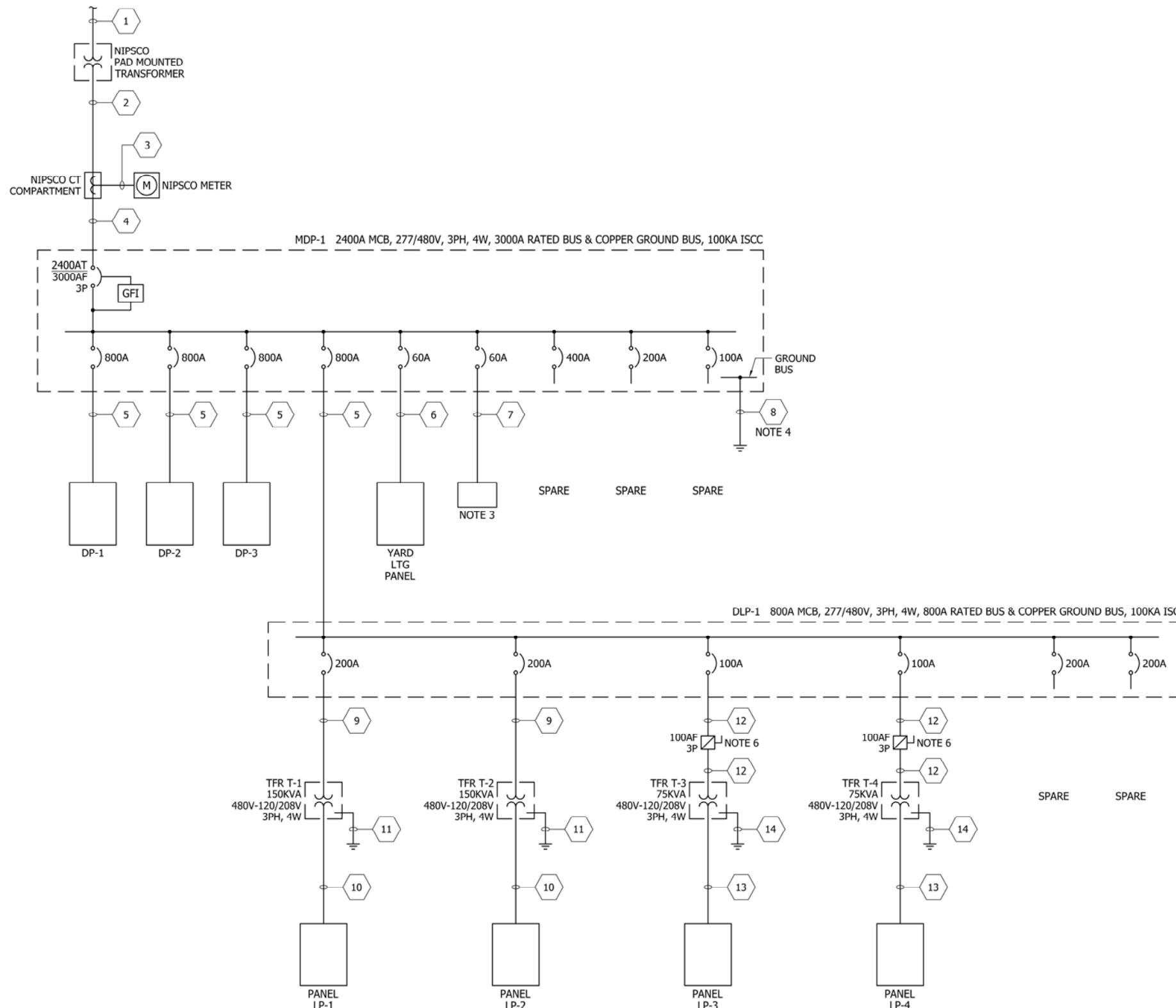
ISSUE	DATE	DESCRIPTION



PLOT DATE: 07/19/2017 10:16:37 PM

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL CIRCUIT BREAKERS ARE 3 POLE, UNO.
3. SURGE PROTECTION DEVICE. 400KA PER PHASE.
4. GROUND CABLE GROUNDED TO TRIAD OF 3-10 FOOT LONG, 3/4" DIA. STAINLESS STEEL GROUNDING RODS.
5. MDP-1 SHALL BE SERVICE ENTRANCE RATED AND UL LISTED.
6. 100A, 3P, 600V, NEMA 1 FUSED DISCONNECT SWITCH WITH 3-100 AMP DUAL-ELEMENT FUSES.



1 SINGLE LINE DIAGRAM
E-6601 NOT TO SCALE

NOT FOR CONSTRUCTION SERIES E-6601



DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36 HAMMOND MAINTENANCE FACILITY	
SINGLE LINE DIAGRAM	
FILENAME	SHT_WL_E_HAMMSF_GN_01
SCALE	NONE
SHEET	327 OF 361

PLOT DATE: 07/19/2017 10:14:30 PM

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. 2-4" PVC SCHEDULE 40 CONDUITS TO NIPSCO POLE FOR PRIMARY TRANSFORMER FEEDER CABLE. CABLE FURNISHED AND INSTALLED BY NIPSCO.
3. CONDUIT, PVC SCHEDULE 40.
4. CONDUIT TO BE GRC.
5. GROUND CABLE GROUNDED TO 10 FOOT LONG, 3/4" DIA. STAINLESS STEEL GROUNDING ROD.

CABLE AND CONDUIT SCHEDULE			
LEGEND NUMBER	CABLE DESCRIPTION QUANTITY/SIZES	CONDUIT SIZE (INCHES)	NOTES
1		(2) 4	2
2	6 SETS 4 #600 KCMIL & 1 #500 KCMIL GRD	(6) 4	3
3	10 #10 AWG	1	4
4	6 SETS 4 #600 KCMIL & 1 #500 KCMIL GRD	(6) 4	4
5	2 SETS 4 #600 KCMIL & 1 #1/0 AWG GRD	(2) 3½	4
6	4 #4 AWG & 1 #8 AWG GRD	1	4
7	4 #6 AWG & 1 #8 AWG GRD	1	4
8	1 #500 KCMIL GRD	2	4
9	3 #4/0 AWG & 1 #4 AWG GRD	2½	4
10	4 #500 KCMIL & 1 #1/0 AWG GRD	3½	4
11	1 #1/0 AWG GRD	1	4, 5
12	3 #1 AWG & 1 #6 AWG GRD	1½	4
13	4 #4/0 AWG & 1 #2 AWG GRD	2½	4
14	1 #2 AWG GRD	1	4, 5
15			

PLOT DATE: 07/19/2017 10:15:08 PM

NOT FOR CONSTRUCTION SERIES E-6602



DYER TO HAMMOND, INDIANA

DESIGNED: A. FAREKAS
DRAWN: C. MARTIN
CHECKED: M. BLUMENTHAL
DATE: 07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36
HAMMOND MAINTENANCE FACILITY

CABLE AND CONDUIT SCHEDULE

FILENAME	SHT_WL_E_HAMMSF_GN_02	SHEET	328 OF 361
SCALE	NONE		

NOTES:

- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.

PANEL: DP-1		MAIN MOUNTING 800A MCB BUS xxxA WITH GROUND BUS										
VOLTAGE: 480/277V, 3P, 4W												
ENCLOSURE: NEMA 1												
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE	
						1	2					
						3	4					
						5	6					
						7	8					
						9	10					
						11	12					
						13	14					
						15	16					
						17	18					
						19	20					
						21	22					
						23	24					
						25	26					
						27	28					
						29	30					
						31	32					
						33	34					
						35	36					
						37	38					
						39	40					
						41	42					
TOTALS				0	0	0		0	0	0		
PHASE A:			0 VA									
PHASE B:			0 VA									
PHASE C:			0 VA									
TOTAL CONNECTED VA			0 VA									
AMPS			0 A			CONNECTED						
1.25X AMPS			0 A									

PANEL: DP-2		MAIN MOUNTING 800A MCB BUS xxxA WITH GROUND BUS										
VOLTAGE: 480/277V, 3P, 4W												
ENCLOSURE: NEMA 1												
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE	
						1	2					
						3	4					
						5	6					
						7	8					
						9	10					
						11	12					
						13	14					
						15	16					
						17	18					
						19	20					
						21	22					
						23	24					
						25	26					
						27	28					
						29	30					
						31	32					
						33	34					
						35	36					
						37	38					
						39	40					
						41	42					
TOTALS				0	0	0		0	0	0		
PHASE A:			0 VA									
PHASE B:			0 VA									
PHASE C:			0 VA									
TOTAL CONNECTED VA			0 VA									
AMPS			0 A			CONNECTED						
1.25X AMPS			0 A									

PANEL: DP-3		MAIN MOUNTING 800A MCB BUS xxxA WITH GROUND BUS										
VOLTAGE: 480/277V, 3P, 4W												
ENCLOSURE: NEMA 1												
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE	
						1	2					
						3	4					
						5	6					
						7	8					
						9	10					
						11	12					
						13	14					
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						29	30					
						31	32					
						33	34					
						35	36					
						37	38					
						39	40					
						41	42					
TOTALS				0	0	0		0	0	0		
PHASE A:			0 VA									
PHASE B:			0 VA									
PHASE C:			0 VA									
TOTAL CONNECTED VA			0 VA									
AMPS			0 A			CONNECTED						
1.25X AMPS			0 A									

NOT FOR CONSTRUCTION SERIES E-6603



ISSUE	DATE	DESCRIPTION



DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36 HAMMOND MAINTENANCE FACILITY		SHEET	
PANELBOARD SCHEDULES		FILENAME	SHT_WL_E_HAMMSF_GN_03
		SCALE	NONE
		329	OF 361

PLOT DATE: 07/19/2017 10:15:42 PM

NOTES:

- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.

PANEL: LP-1										MAIN 400A MCB									
VOLTAGE: 120/208V, 3P, 4W										MOUNTING BUS									
ENCLOSURE: NEMA 1										xxxA WITH GROUND BUS									
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE							
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE								
SPARE	20	1				1	2				20	1	SPARE						
SPARE	20	1				3	4				20	1	SPARE						
SPARE	20	1				5	6				20	1	SPARE						
SPARE	20	1				7	8				20	1	SPARE						
SPARE	20	1				9	10				20	1	SPARE						
SPARE	20	1				11	12				20	1	SPARE						
SPARE	20	1				13	14				20	1	SPARE						
SPARE	20	1				15	16				20	1	SPARE						
SPARE	20	1				17	18				20	1	SPARE						
SPARE	20	1				19	20				20	1	SPARE						
SPARE	20	1				21	22				20	1	SPARE						
SPARE	20	1				23	24				20	1	SPARE						
SPARE	20	1				25	26				20	1	SPARE						
SPARE	20	1				27	28				20	1	SPARE						
SPARE	20	1				29	30				20	1	SPARE						
SPARE	20	1				31	32				20	1	SPARE						
SPARE	20	1				33	34				20	1	SPARE						
SPARE	20	1				35	36				20	1	SPARE						
SPARE	20	1				37	38				20	1	SPARE						
SPARE	20	1				39	40				20	1	SPARE						
SPARE	20	1				41	42				20	1	SPARE						
TOTALS			0	0	0		0	0	0										
PHASE A:	0 VA																		
PHASE B:	0 VA																		
PHASE C:	0 VA																		
TOTAL CONNECTED VA	0 VA																		
AMPS	0 A		CONNECTED																
1.25X AMPS	0 A																		

PANEL: LP-2										MAIN 400A MCB									
VOLTAGE: 120/208V, 3P, 4W										MOUNTING BUS									
ENCLOSURE: NEMA 1										xxxA WITH GROUND BUS									
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE							
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE								
SPARE	20	1				1	2				20	1	SPARE						
SPARE	20	1				3	4				20	1	SPARE						
SPARE	20	1				5	6				20	1	SPARE						
SPARE	20	1				7	8				20	1	SPARE						
SPARE	20	1				9	10				20	1	SPARE						
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SPARE	20	1				37	38				20	1	SPARE						
SPARE	20	1				39	40				20	1	SPARE						
SPARE	20	1				41	42				20	1	SPARE						
TOTALS			0	0	0		0	0	0										
PHASE A:	0 VA																		
PHASE B:	0 VA																		
PHASE C:	0 VA																		
TOTAL CONNECTED VA	0 VA																		
AMPS	0 A		CONNECTED																
1.25X AMPS	0 A																		

PANEL: LP-3										MAIN 225A MCB									
VOLTAGE: 120/208V, 3P, 4W										MOUNTING BUS									
ENCLOSURE: NEMA 1										xxxA WITH GROUND BUS									
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE							
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE								
SPARE	20	1				1	2				20	1	SPARE						
SPARE	20	1				3	4				20	1	SPARE						
SPARE	20	1				5	6				20	1	SPARE						
SPARE	20	1				7	8				20	1	SPARE						
SPARE	20	1				9	10				20	1	SPARE						
SPARE	20	1				11	12				20	1	SPARE						
SPARE	20	1				13	14				20	1	SPARE						
SPARE	20	1				15	16				20	1	SPARE						
SPARE	20	1				17	18				20	1	SPARE						
SPARE	20	1				19	20				20	1	SPARE						
SPARE	20	1				21	22				20	1	SPARE						
SPARE	20	1				23	24				20	1	SPARE						
SPARE	20	1				25	26				20	1	SPARE						
SPARE	20	1				27	28				20	1	SPARE						
SPARE	20	1				29	30				20	1	SPARE						
SPARE	20	1				31	32				20	1	SPARE						
SPARE	20	1				33	34				20	1	SPARE						
SPARE	20	1				35	36				20	1	SPARE						
SPARE	20	1				37	38				20	1	SPARE						
SPARE	20	1				39	40				20	1	SPARE						
SPARE	20	1				41	42				20	1	SPARE						
TOTALS			0	0	0		0	0	0										
PHASE A:	0 VA																		
PHASE B:	0 VA																		
PHASE C:	0 VA																		
TOTAL CONNECTED VA	0 VA																		
AMPS	0 A		CONNECTED																
1.25X AMPS	0 A																		

PANEL: LP-4										MAIN 225A MCB									
VOLTAGE: 120/208V, 3P, 4W										MOUNTING BUS									
ENCLOSURE: NEMA 1										xxxA WITH GROUND BUS									
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE							
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE								
SPARE	20	1				1	2				20	1	SPARE						
SPARE	20	1				3	4				20	1	SPARE						
SPARE	20	1				5	6				20	1	SPARE						
SPARE	20	1				7	8				20	1	SPARE						
SPARE	20	1				9	10				20	1	SPARE						
SPARE	20	1				11	12				20	1	SPARE						
SPARE	20	1				13	14				20	1	SPARE						
SPARE	20	1				15	16				20	1	SPARE						
SPARE	20	1				17	18				20	1	SPARE						
SPARE	20	1				19	20				20	1	SPARE						
SPARE	20	1				21	22				20	1	SPARE						
SPARE	20	1				23	24				20	1	SPARE						
SPARE	20	1				25	26				20	1	SPARE						
SPARE	20	1				27	28				20	1	SPARE						
SPARE	20	1				29	30				20	1	SPARE						
SPARE	20	1				31	32				20	1	SPARE						
SPARE	20	1				33	34				20	1	SPARE						
SPARE	20	1				35	36				20	1	SPARE						
SPARE	20	1				37	38				20	1	SPARE						
SPARE	20	1				39	40				20	1	SPARE						
SPARE	20	1				41	42				20	1	SPARE						
TOTALS			0	0	0		0	0	0										
PHASE A:	0 VA																		
PHASE B:	0 VA																		
PHASE C:	0 VA																		
TOTAL CONNECTED VA	0 VA																		
AMPS	0 A		CONNECTED																
1.25X AMPS	0 A																		

PLOT DATE: 07/19/2017 10:16:13 PM

NOT FOR CONSTRUCTION SERIES E-6604



AAA ENGINEERING
ONE CERTIFIED
AAA Engineering, Ltd.
4323 W Irving Park Rd., Suite 200
Chicago, IL 60641
P: 773-657-3300 F: 773-657-3330
www.AAAEngineering.net

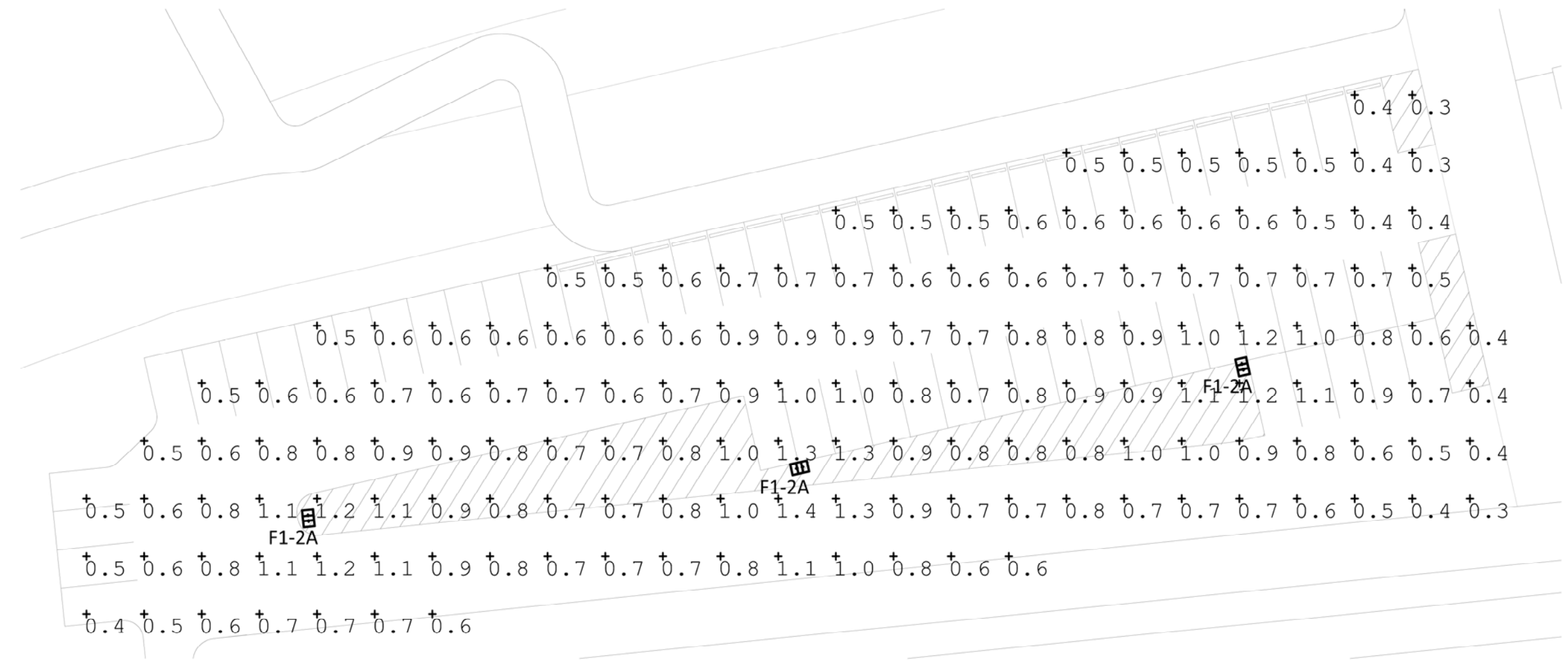
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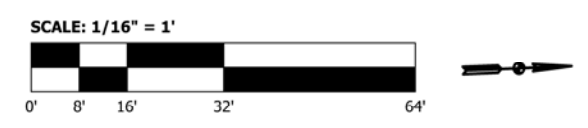
DESIGNED: A. FAREKAS
DRAWN: C. MARTIN
CHECKED: M. BLUMENTHAL
DATE: 07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36 HAMMOND MAINTENANCE FACILITY		
PANELBOARD SCHEDULES		
FILENAME	SHT_WL_E_HAMMSF_GN_04	SHEET
SCALE	NONE	330 OF 361

- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.

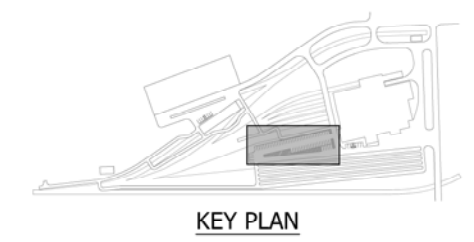


1
E-6605
MAINTENANCE FACILITY
PARKING LOT PHOTOMETRICS PLAN
SCALE: 1/16" = 1'-0"



Symbol	Qty	Tag	Label	Arrangement	Lum. Watts	Mounting Height (ft.)	LLF	Description
[Symbol]	3	F1-2A	DSX1_LED_40C_1000_40K_T4M_MVO_1	BACK-BACK	138	25	0.700	DSX1 LED 40C 1000 40K T4M MVOLT

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Maintenance Yard Parking Lot_3	Illuminance	Fc	0.73	1.4	0.3	2.43	4.67



NOT FOR CONSTRUCTION SERIES E-6605



ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

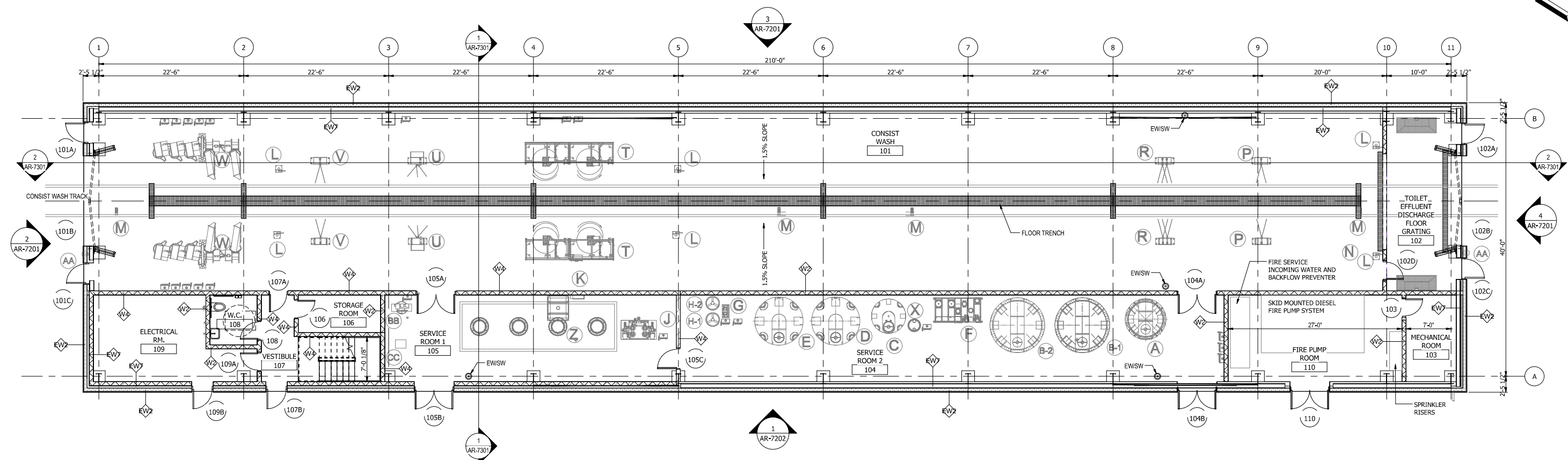
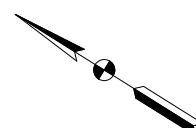
DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.36
HAMMOND MAINTENANCE FACILITY

**MAINTENANCE FACILITY PARKING LOT
PHOTOMETRICS PLAN**

FILENAME	SHT_WL_E_HAMMSF_DT_05	SHEET	331 OF 361
SCALE	1/16" = 1' - 0"		

PLOT DATE: 07/19/2017 10:10:51 PM



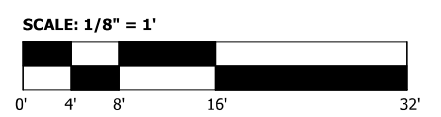
1 GROUND FLOOR PLAN
1/8" = 1'-0"

ITEM	DESCRIPTION	COMMENT
A	1500 GALLON DBL WALL TANK	ACID TANK, 76" O X 136" H
B-1	3000 GALLON DBL WALL TANK	DETERGENT TANK, 102" O X 142" H
B-2	3000 GALLON DBL WALL TANK	DETERGENT TANK, 102" O X 142" H
C	1000 GALLON SINGLE WALL TANK	FRESH WATER TANK, 64" O X 90" H
D	3000 GALLON SINGLE WALL TANK	RECLAIMED WATER TANK, 90" O X 127" H
E	2000 GALLON SINGLE WALL TANK	NEUTRALIZATION TANK, 90" O X 87-1/2" H
F	PRIMARY PUMP SKID	
G	NEUTRALIZATION PUMP SKID	
H-1	110 GALLON DBL WALL TANK	ACID NEUTRALIZATION TANK
H-2	110 GALLON DBL WALL TANK	ALKALINE NEUTRALIZATION TANK
J	RECLAIM SKID	
K	OIL SKIMMER w/275 GAL TOTE	
L	PHOTO EYES	
M	TRACK SPEED SENSORS	

ITEM	DESCRIPTION	COMMENT
N	UNDERCARRIAGE	20 GPM @ 250 PSI
P	PRE-WET TOWER	40 GPM @ 250 PSI
R	CHEMICAL TOWER	40 GPM @ 250 PSI
T	BRUSH TOWER / BLASTER TOWER	140 GPM @ 100 PSI
U	HP SPINNER BLASTER TOWER	200 GPM @ 350 PSI
V	RINSE TOWER	40 GPM @ 250 PSI
W	BLOWER TOWER	7.5 HP BLOWER - 10 QTY
X	WAX DRUM 55 GAL.	
Y	REMOTE FILL	
Z	SUBGRADE COLLECTION AND SEPRATION	
AA	STATUS LIGHT	
BB	AIR COMPRESSOR	
CC	REFRIGERATED DRYER	

SYMBOL LEGEND

- TRENCH DRAIN
- EYE WASH



NOT FOR CONSTRUCTION SERIES **AR-7101**

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - CONSIST WASH
GROUND LEVEL FLOOR PLAN

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

FILENAME		SHEET	
SCALE	As indicated		332 OF 361

PLOT DATE: 7/19/2017 9:51:57 AM

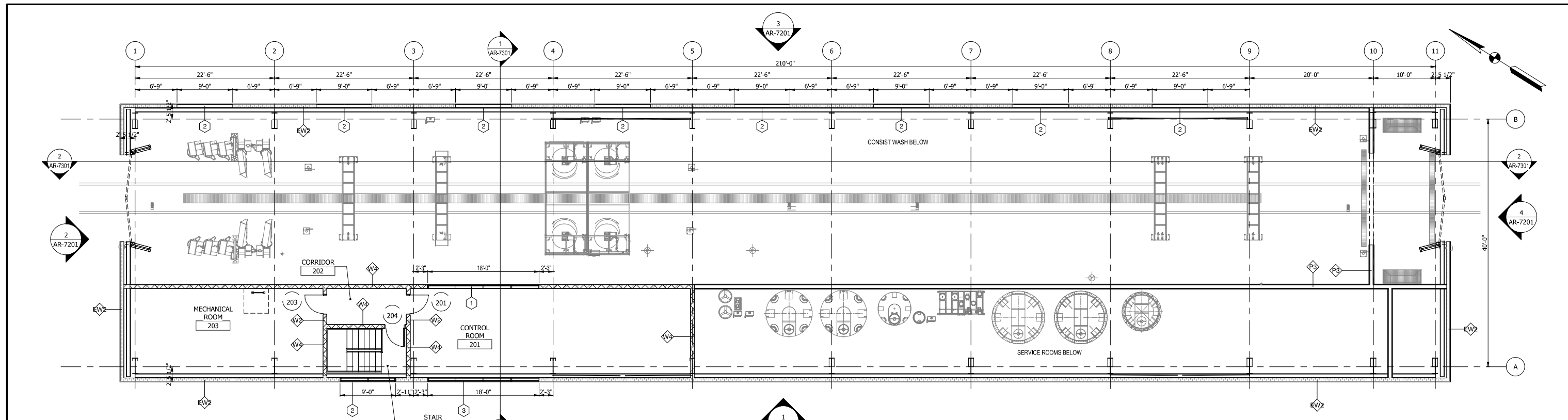


ISSUE	DATE	DESCRIPTION

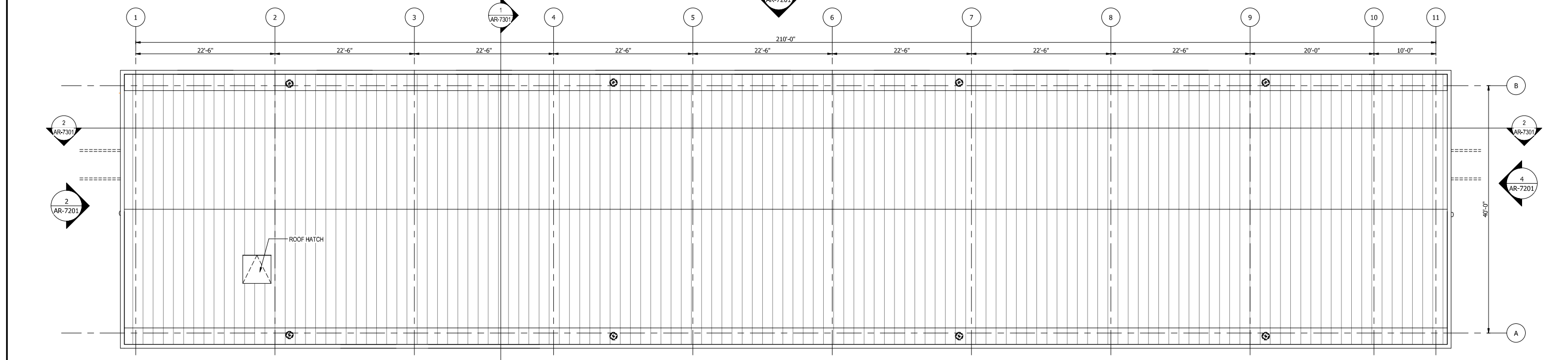


DYER TO HAMMOND, INDIANA

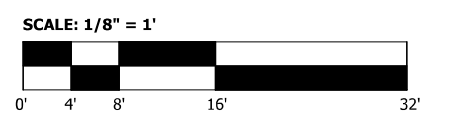
C:\vvt\2016\10013118-FACILITIES-A-CENTRAL-CONSIST WASH_XWANG.rvt



1 MEZZANINE FLOOR PLAN
1/8" = 1'-0"



2 U/S OF ROOF
1/8" = 1'-0"



PLOT DATE: 7/19/2017 12:37:11 PM



ISSUE	DATE	DESCRIPTION

NICTD
NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

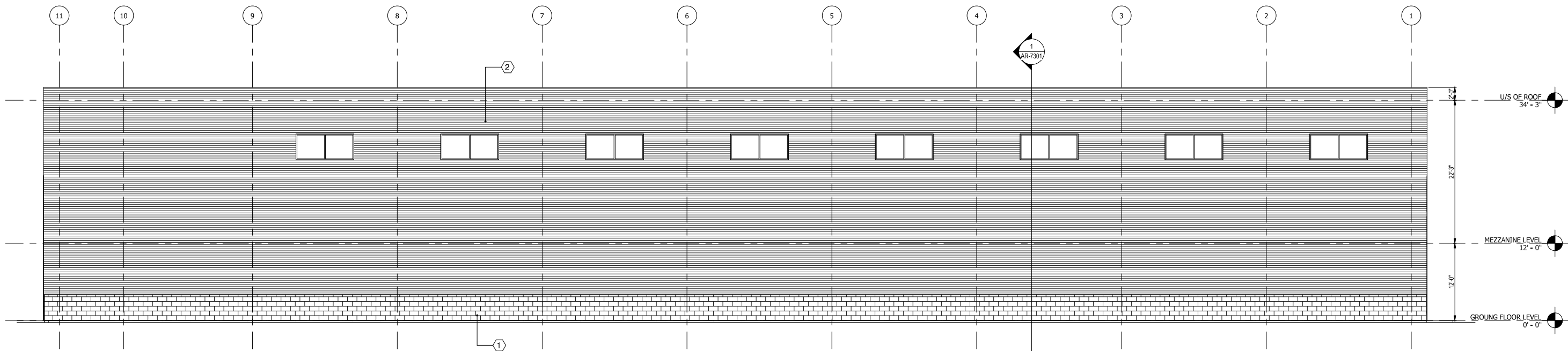
NOT FOR CONSTRUCTION SERIES **AR-7102**

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - CONSIST WASH

MAZANINE PLAN AND ROOF PLANS

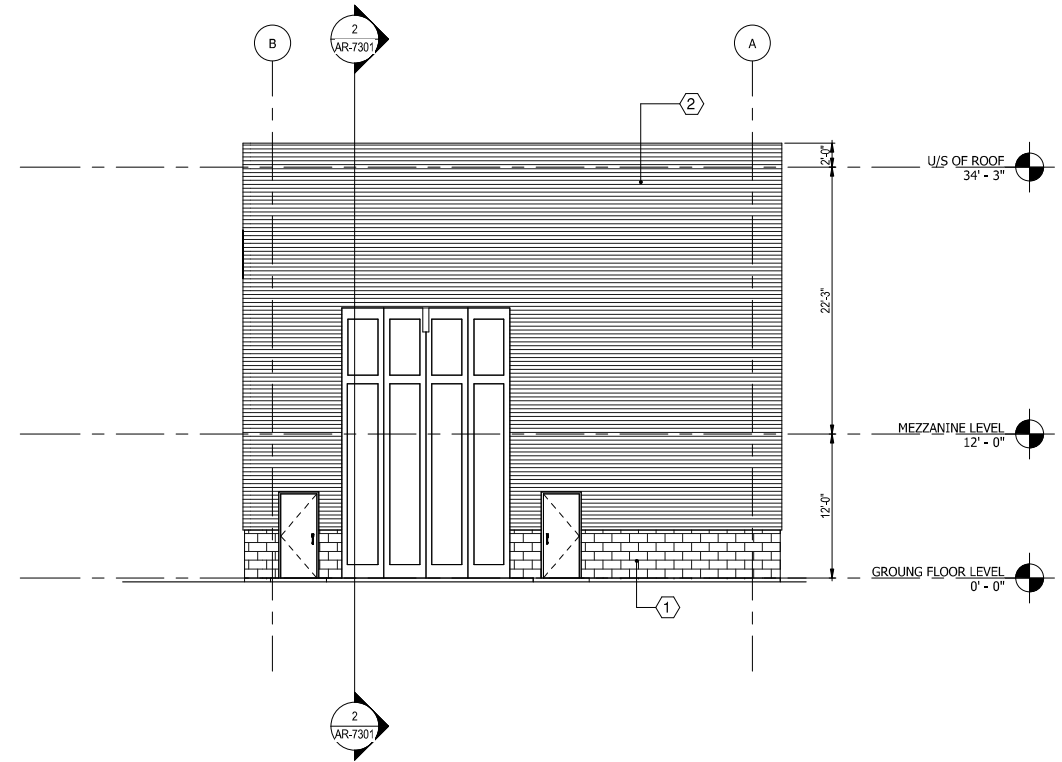
FILENAME		SHEET	
SCALE	1/8" = 1'-0"		333 OF 361

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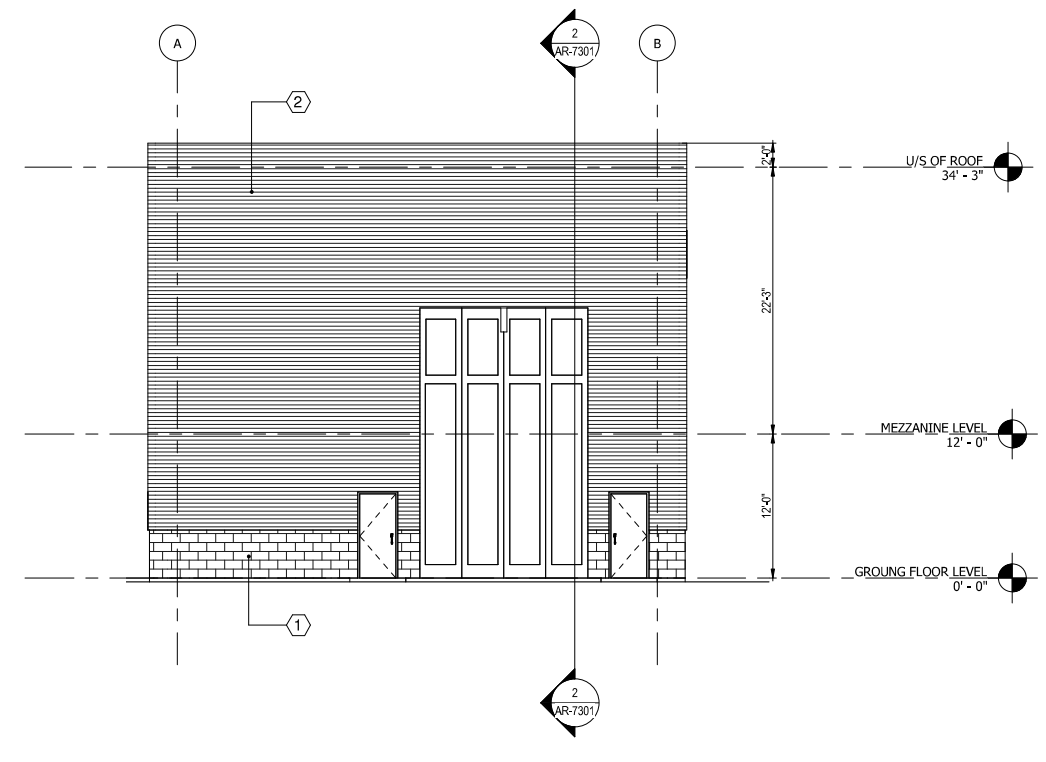


3 EAST ELEVATION
1/8" = 1'-0"

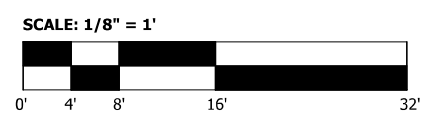
MATERIAL LIST1	
Mark	Description
1	CONCRETE BLOCK
2	INSULATED METAL WALL PANEL



2 NORTH ELEVATION
1/8" = 1'-0"



4 SOUTH ELEVATION
1/8" = 1'-0"



PLOT DATE: 7/19/2017 9:51:58 AM



HDR Engineering, Inc.
8550 W Bryn Mawr Ave., Suite 900
Chicago, IL 60631
www.hdrinc.com

ISSUE	DATE	DESCRIPTION



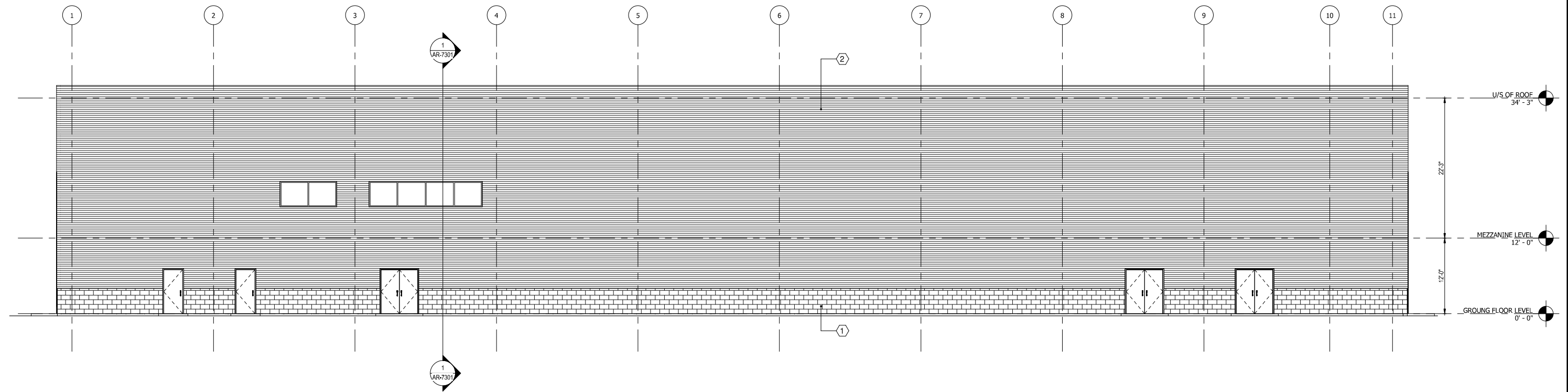
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NOT FOR CONSTRUCTION SERIES **AR-7201**

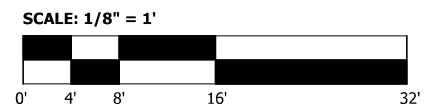
NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - CONSIST WASH
EXTERIOR ELEVATIONS

FILENAME	SHEET
SCALE	1/8" = 1'-0"
334 OF 361	



1 WEST ELEVATION
1/8" = 1'-0"

MATERIAL LIST1	
Mark	Description
1	CONCRETE BLOCK
2	INSULATED METAL WALL PANEL



NOT FOR CONSTRUCTION SERIES AR-7202

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - CONSIST WASH
EXTERIOR ELEVATIONS

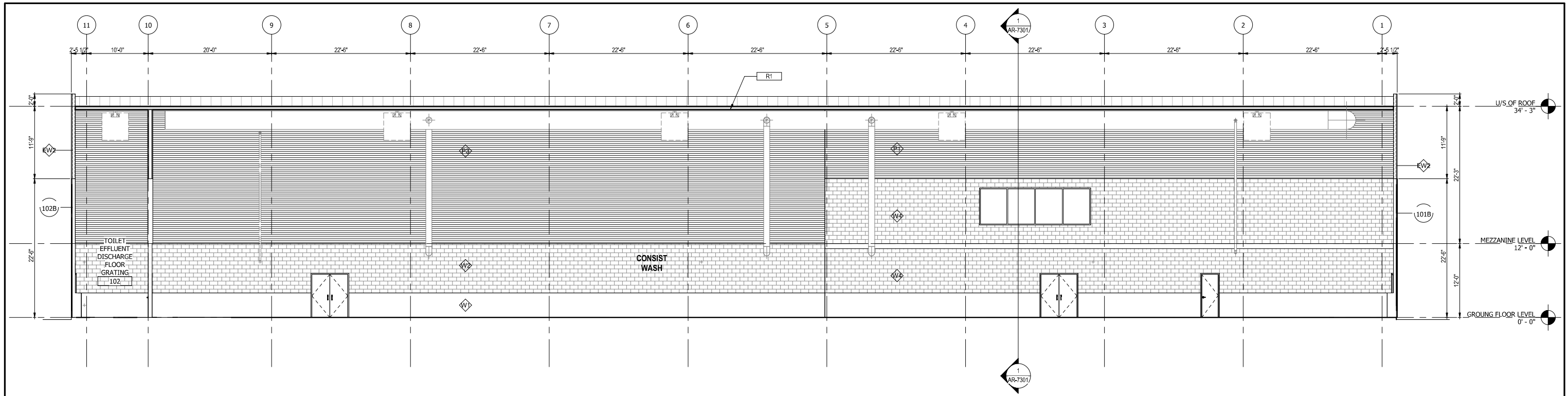
DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

FILENAME	SHEET
SCALE	335 OF 361

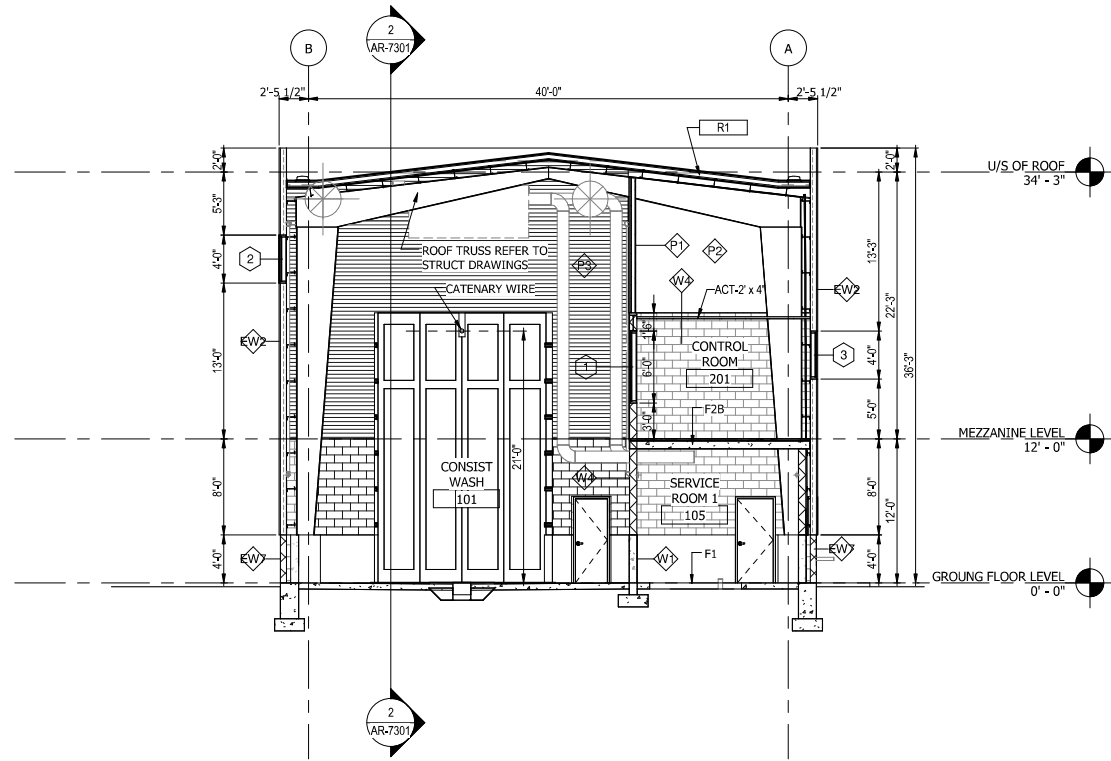


DYER TO HAMMOND, INDIANA

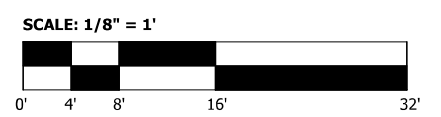
PLOT DATE: 7/19/2017 9:51:58 AM



2 LONGITUDINAL SECTION
1/8" = 1'-0"



1 CROSS SECTION
1/8" = 1'-0"



NOT FOR CONSTRUCTION SERIES AR-7301



ISSUE	DATE	DESCRIPTION

NICTD
NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304



DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46 HAMMOND YARD - CONSIST WASH	
SECTIONS - BUILDING	
FILENAME	SHEET
SCALE	1/8" = 1'-0"
336 OF 361	

PLOT DATE: 7/19/2017 9:51:59 AM

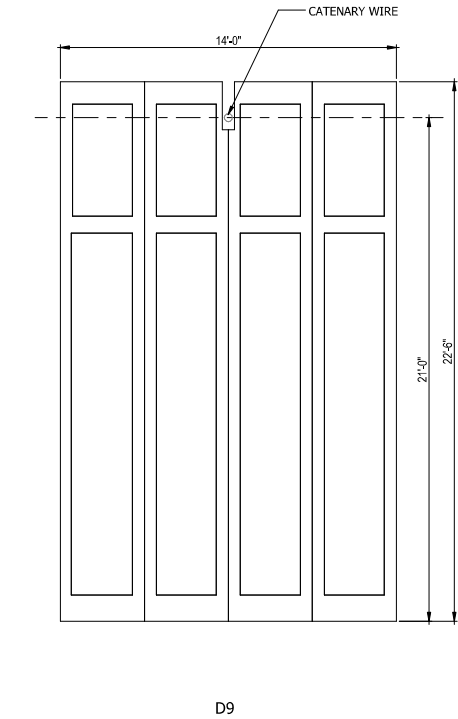
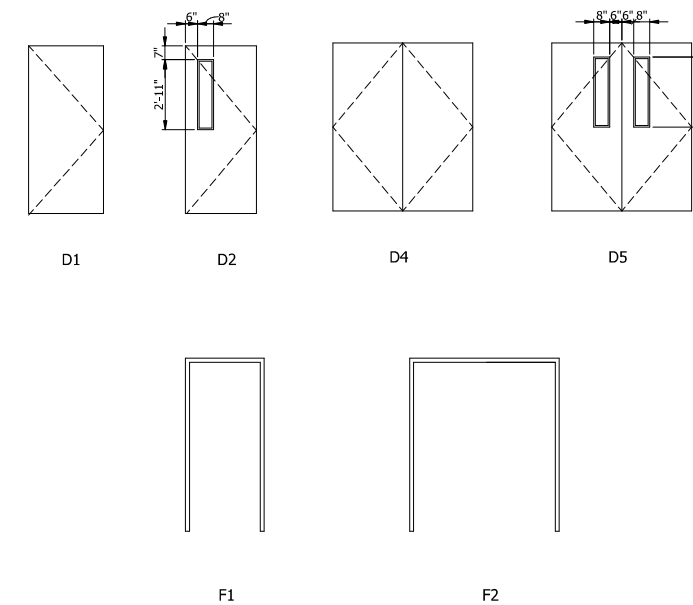
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ROOM FINISH SCHEDULE															
NO.	NAME	AREA	FLOOR		WALLS								CEILING		NOTES
			FINISH	BASE	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
GROUND FLOOR LEVEL															
101	CONSIST WASH	5522 SF	CONC												
102	TOILET EFFLUENT DISCHARGE FLOOR GRATING	299 SF	CONC		CONC BLK	P									
103	MECHANICAL ROOM	105 SF	CONC	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
104	SERVICE ROOM 2	1137 SF	CONC	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
105	SERVICE ROOM 1	609 SF	CONC	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
106	STORAGE ROOM	75 SF	CONC	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
107	VESTIBULE	163 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
108	W.C.	57 SF	CT	CT	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
109	ELECTRICAL RM.	276 SF	RC	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
110	FIRE PUMP ROOM	364 SF													
MEZZANINE LEVEL															
201	CONTROL ROOM	655 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
202	CORRIDOR	75 SF	RF	RB	CONC BLK	P	CONC BLK	P	CONC BLK	P	CONC BLK	P			
203	MECHANICAL ROOM	465 SF	CONC		METAL		CONC BLK	P	CONC BLK	P	METAL				
204	STAIR	103 SF	CONC		CONC BLK	P	CONC BLK	P	CONC BLK	P	METAL				

LEGEND AND ABBREVIATIONS

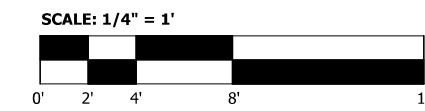
- BLK BLOCK
- CONC CONCRETE
- CONC BLK CONCRETE BLOCK
- CT CERAMIC TILE
- MTL METAL
- P PAINT
- RB RESILIENT BASE
- RF RESILIENT FLOORING
- GL GLASS
- EXP EXPOSED

DOOR AND FRAME SCHEDULE														
ROOM NO.	DOOR NO.	DIMENSIONS			PANEL				FRAME			HARDWARE		NOTES
		W1	H	T	TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	FIRE RATING	GROUP	
GROUND FLOOR LEVEL														
101	101A	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	-		EXTERIOR
101	101B	14'-0"	22'-6"	0'-2"	D9	-	-		-	-	-	-		4-FOLD EXTERIOR
101	101C	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	-		EXTERIOR
102	102A	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	-		EXTERIOR
102	102B	14'-0"	22'-6"	0'-2"	D9	-	-		-	-	-	-		4-FOLD EXTERIOR
102	102C	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	-		EXTERIOR
102	102D	3'-0"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	-		
103	103	3'-0"	7'-2"	0'-2"					F1					
104	104A	6'-2"	7'-2"	0'-2"	D5	HM	PT		F2	HM	PT	-		
104	104B	6'-2"	7'-2"	0'-2"	D1	HM	PT		F2	HM	PT	-		EXTERIOR
105	105A	6'-2"	7'-2"	0'-2"	D5	HM	PT		F2	HM	PT	1HR		
105	105B	6'-2"	7'-2"	0'-2"	D4	HM	PT		F2	HM	PT	-		EXTERIOR
105	105C	3'-4"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	1HR		
106	106	3'-0"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	1HR		
107	107A	3'-0"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	1HR		
107	107B	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	-		EXTERIOR
108	108	3'-0"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	1HR		
109	109A	3'-0"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	1HR		
109	109B	3'-4"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	-		EXTERIOR
110	110	6'-2"	7'-2"	0'-2"	D4	HM	PT		F2	HM	PT	-		EXTERIOR
MEZZANINE LEVEL														
201	201	3'-4"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	-		
202	203	3'-4"	7'-2"	0'-2"	D1	HM	PT		F1	HM	PT	-		
202	204	3'-4"	7'-2"	0'-2"	D2	HM	PT		F1	HM	PT	1HR		



ELECTRIC OPERATED BIFOLD DOOR WITH INSULATED PANEL

WINDOW SCHEDULE									
TYPE	COUNT	HEIGHT	WIDTH	HEAD HEIGHT	SILL HEIGHT	Fire Rating (hr)	MATERIAL	WINDOW AREA	NOTES
MEZZANINE LEVEL									
1	1	6'-0"	18'-0"	9'-0"	3'-0"	1		108 SF	
2	9	4'-0"	9'-0"	9'-0"				36 SF	
3	1	4'-0"	18'-0"	9'-0"	5'-0"			72 SF	
Grand total: 11									



PLOT DATE: 7/19/2017 12:38:40 PM



ISSUE	DATE	DESCRIPTION



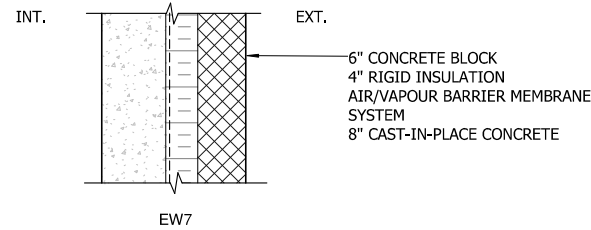
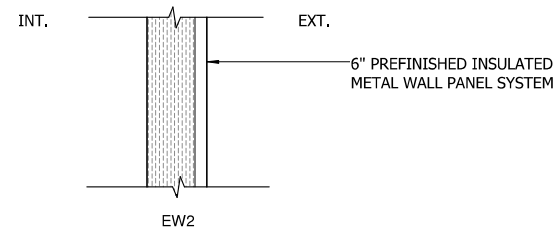
DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

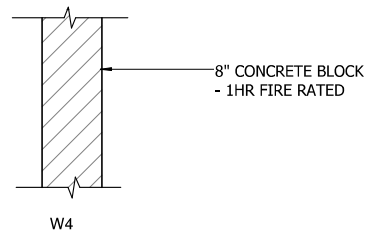
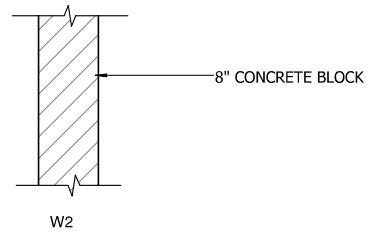
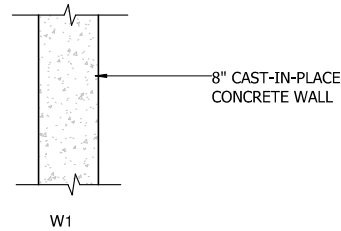
NOT FOR CONSTRUCTION SERIES AR-7601

NICD - WEST LAKE CORRIDOR - MP WL 68.46 HAMMOND YARD - CONSIST WASH	
DOOR, WINDOW AND ROOM FINISH SCHEDULES	
FILENAME	SHEET
SCALE	1/4" = 1'-0"
337 OF 361	

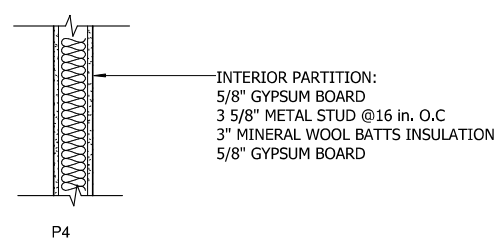
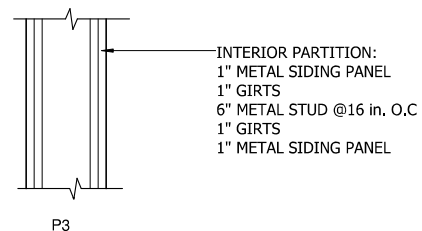
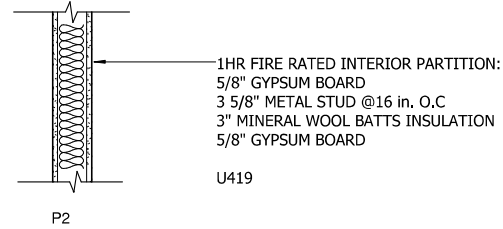
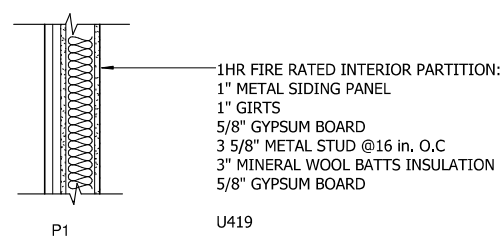
EXTERIOR WALL ASSEMBLIES



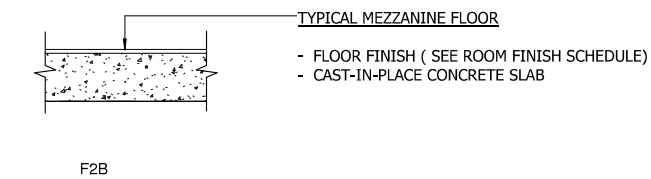
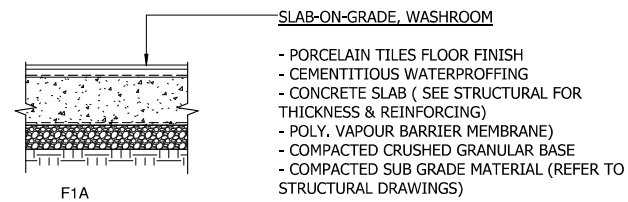
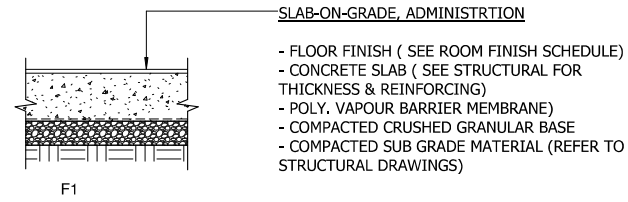
INTERIOR WALL ASSEMBLIES



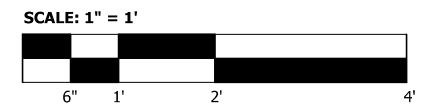
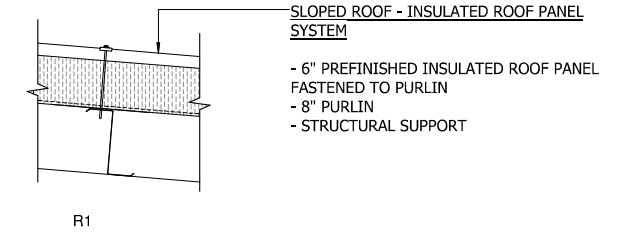
INTERIOR WALL ASSEMBLIES



FLOOR ASSEMBLIES



ROOF ASSEMBLIES



PLOT DATE: 7/19/2017 9:52:00 AM



ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

DESIGNED:	S.CHERIAN
DRAWN:	E.WANG/A.AZIZI
CHECKED:	J.HUANG/J.SPENCE
DATE:	07/21/17

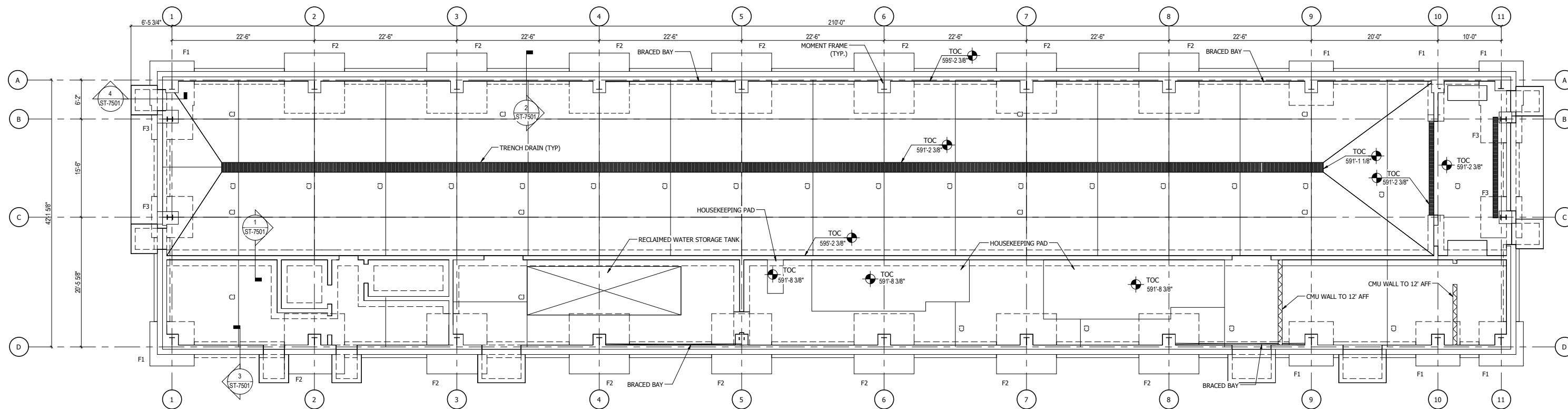
NOT FOR CONSTRUCTION SERIES AR-7701

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
HAMMOND YARD - CONSIST WASH

CONSTRUCTION ASSEMBLIES

FILENAME	SHEET
SCALE	1" = 1'-0"

338 OF 361



1 FOUNDATION PLAN
1/8" = 1'-0"

F# - FOOTING SCHEDULE

MARK (F#)	ANCHOR ROD			BASE PLATE SIZE	PIER		FOOTING					REMARKS
	NUMBER	DIAMETER	EMBEDMENT LENGTH		SIZE	VERT. REINF.	WIDTH	LENGTH	THICKNESS	BOT. REINF. (E.W.)	TOP REINF. (E.W.)	
F1	4			2' x 2' x 3'		7.000	7.000	1.000				
F2	4			2' x 2' x 3'		9.500	9.500	1.000				
F3	4			2' x 2' x 3'		6.500	6.500	1.000				

NOT FOR CONSTRUCTION SERIES **ST-7101**

NICTD - WEST LAKE CORRIDOR - MP 68.46
CONSIST WASH
FIRST LEVEL FOUNDATION PLAN

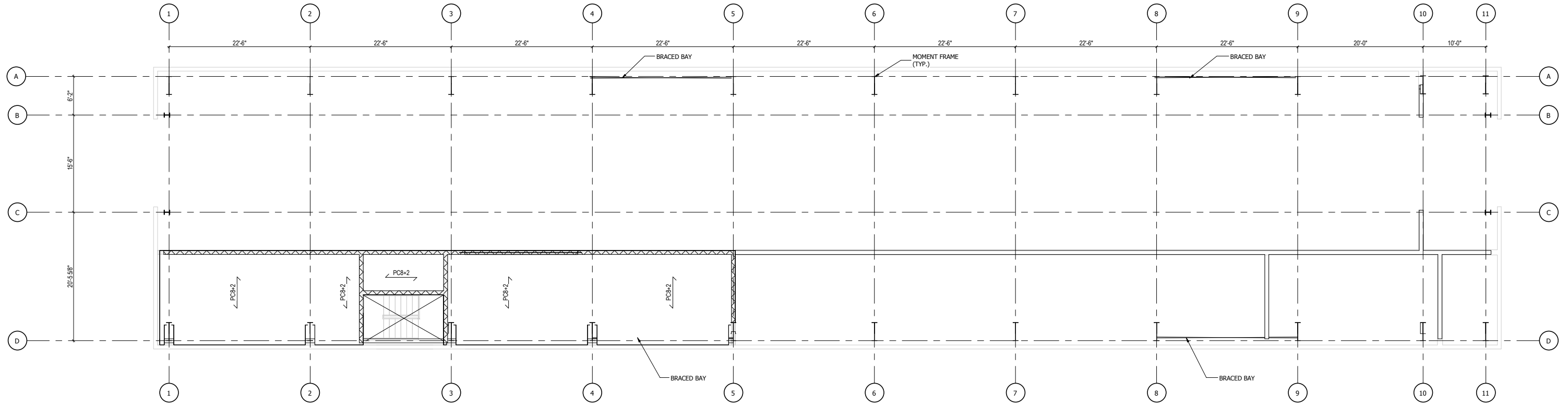


DYER TO HAMMOND, INDIANA

DESIGNED: KMJ
DRAWN: KMJ
CHECKED: CVAN
DATE: 05/25/17

FILENAME	SHEET
SCALE 1/8" = 1'-0"	339 OF 361

PLOT DATE: 19-Jul-17 4:09:41 PM



1 MEZZANINE FRAMING PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES ST-7102



ISSUE	DATE	DESCRIPTION

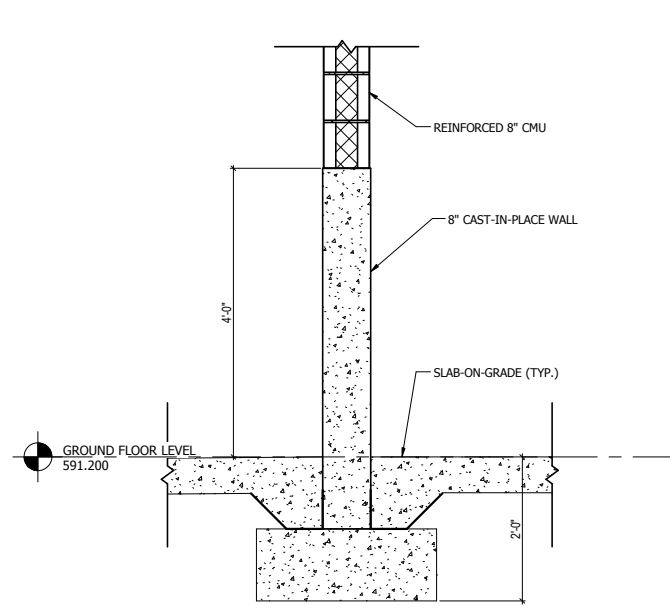


DYER TO HAMMOND, INDIANA

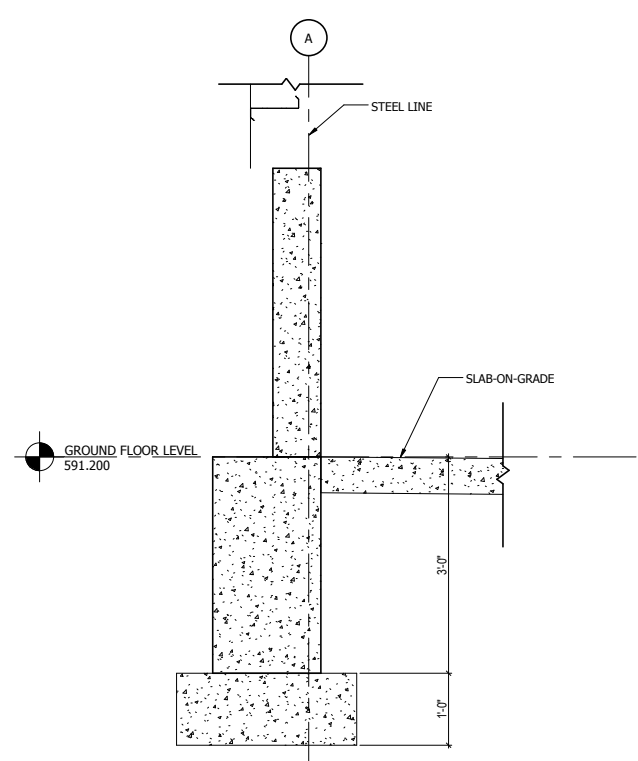
DESIGNED:	KMJ
DRAWN:	KMJ
CHECKED:	CVAN
DATE:	7/21/17

NICTD - WEST LAKE CORRIDOR - MP 68.46 CONSIST WASH	
MEZZANINE LEVEL FRAMING PLAN	
FILENAME	SHEET
SCALE	340 OF 361
1/8" = 1'-0"	

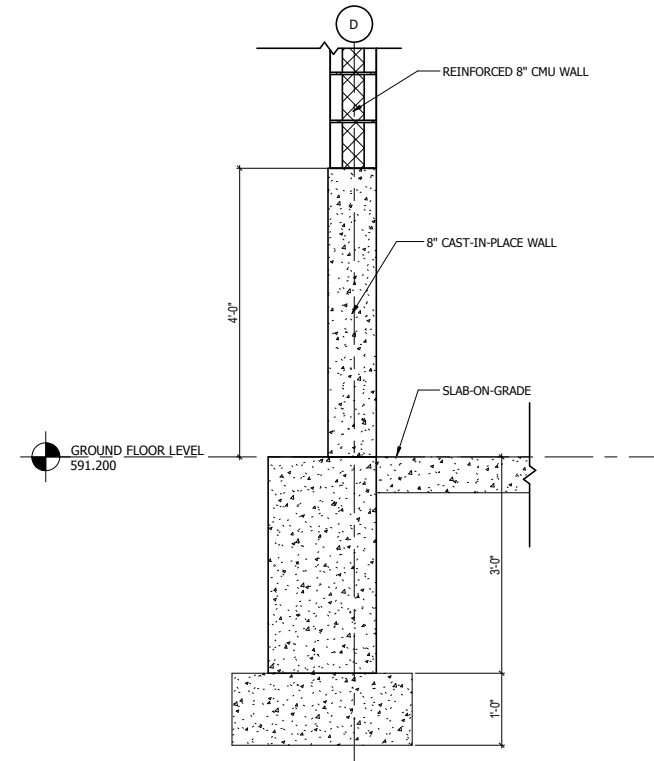
PLOT DATE: 19-Jul-17 4:09:41 PM



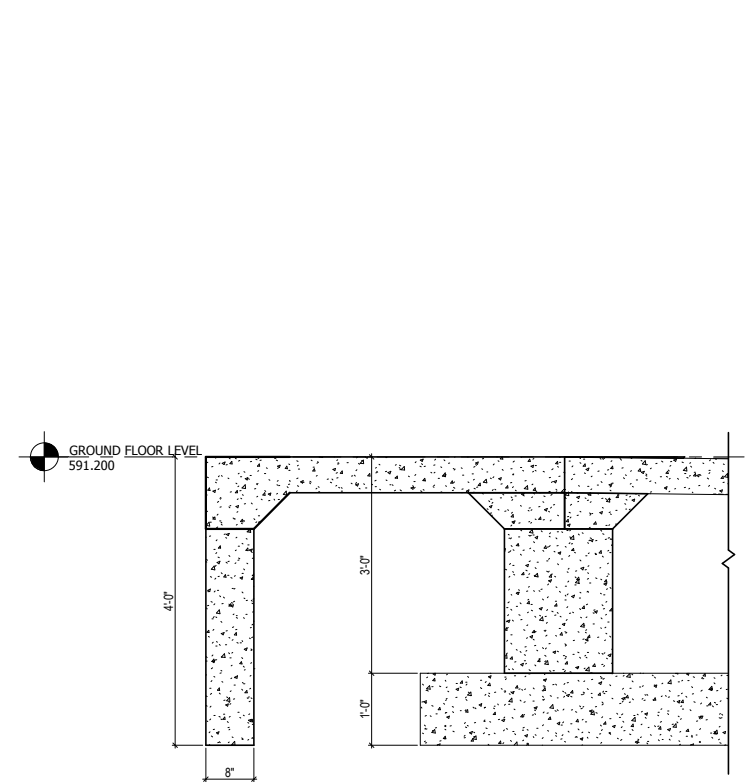
1 INTERIOR MEZZANINE FOUNDATION SECTION
3/4" = 1'-0"



2 EXTERIOR FOUNDATION SECTION
3/4" = 1'-0"



3 EXTERIOR MEZZANINE FOUNDATION SECTION
3/4" = 1'-0"



4 TYPICAL STOOP SECTION
3/4" = 1'-0"

PLOT DATE: 19-Jul-17 4:09:42 PM



ISSUE	DATE	DESCRIPTION



DYER TO HAMMOND, INDIANA

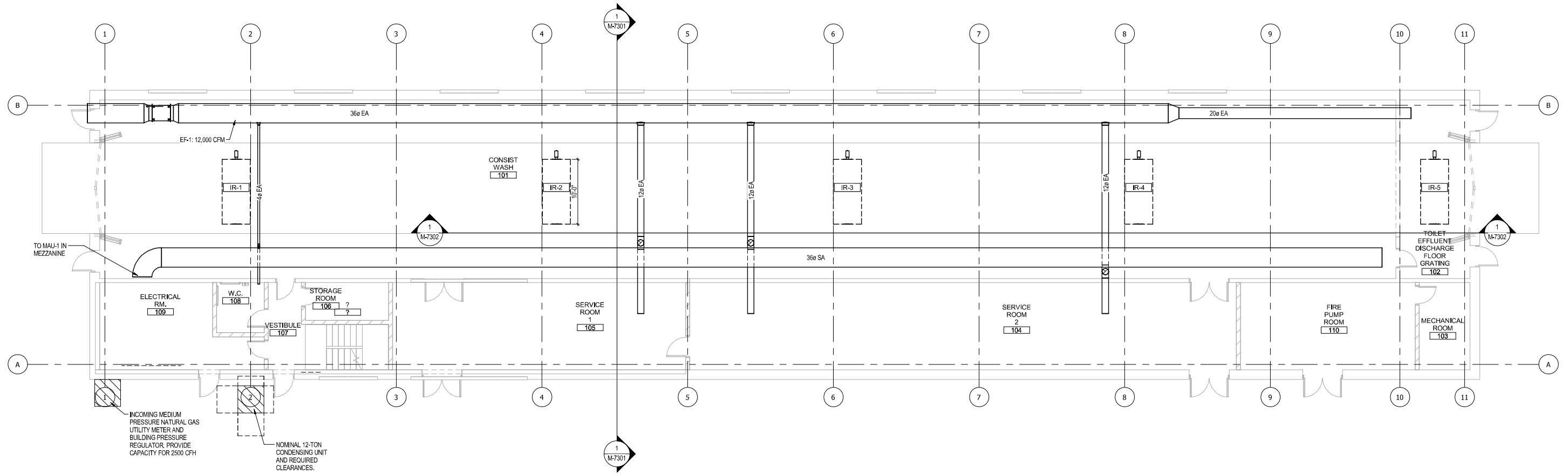
DESIGNED:	KMJ
DRAWN:	KMJ
CHECKED:	CVAN
DATE:	05/25/17

NOT FOR CONSTRUCTION

SERIES ST-7501

NICTD - WEST LAKE CORRIDOR - MP 68.46
CONSIST WASH
SECTIONS AND DETAILS

FILENAME		SHEET	341 OF 361
SCALE	3/4" = 1'-0"		



1 01-M-HVAC-PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-7101



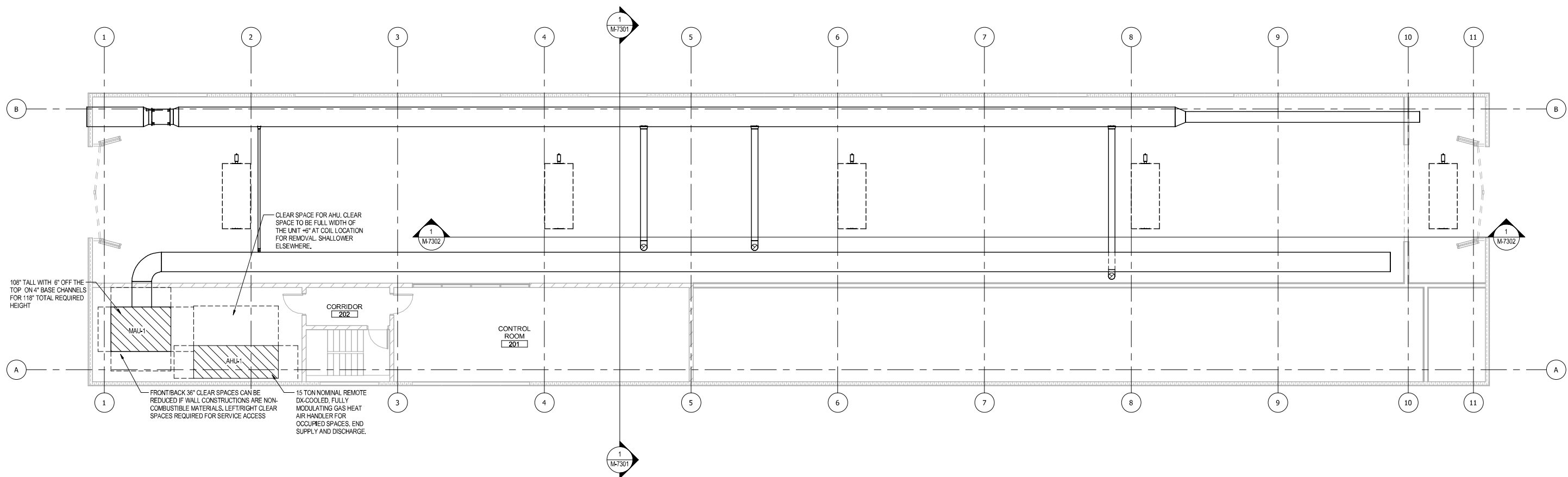
ISSUE	DATE	DESCRIPTION



DESIGNED: ZEA
DRAWN: ZEA
CHECKED: ESA
DATE: 07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH HVAC-OVERALL GROUND FLOOR PLAN	
FILENAME	SHEET
SCALE 1/8" = 1'-0"	342 OF 361

PLOT DATE: 7/19/2017 4:25:07 PM



1 02-M-HVAC-PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-7102



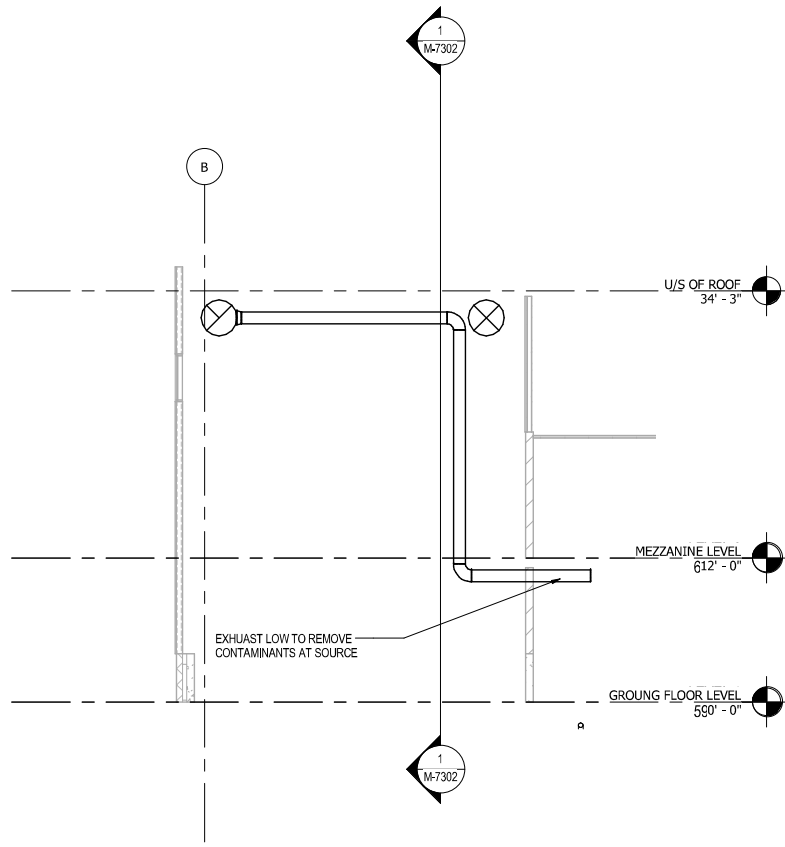
ISSUE	DATE	DESCRIPTION



DESIGNED: ZEA
DRAWN: ZEA
CHECKED: ESA
DATE: 07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH HVAC-OVERALL MEZZANINE FLOOR PLAN	
FILENAME	SHEET
SCALE 1/8" = 1'-0"	343 OF 361

PLOT DATE: 7/19/2017 4:25:08 PM



1 HVAC-DUCTWORK CROSS SECTION
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES **M-7301**



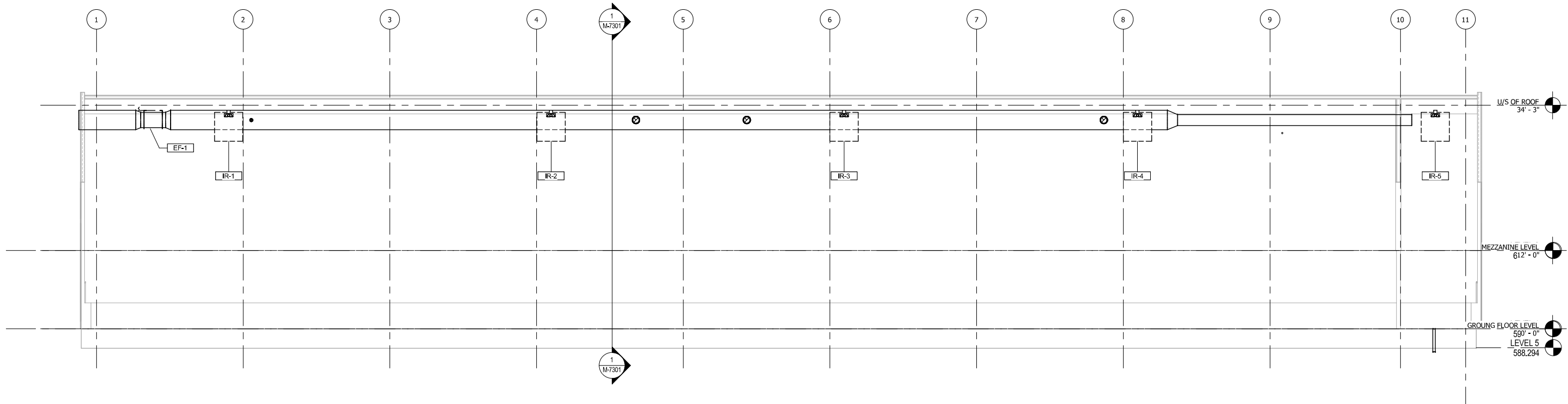
ISSUE	DATE	DESCRIPTION



DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH HVAC-CROSS SECTIONS	
FILENAME	SHEET
SCALE	344 OF 361
1/8" = 1'-0"	

PLOT DATE: 7/19/2017 4:25:08 PM



1 HVAC-DUCTWORK LONGITUDINAL SECTION
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES M-7302



ISSUE	DATE	DESCRIPTION

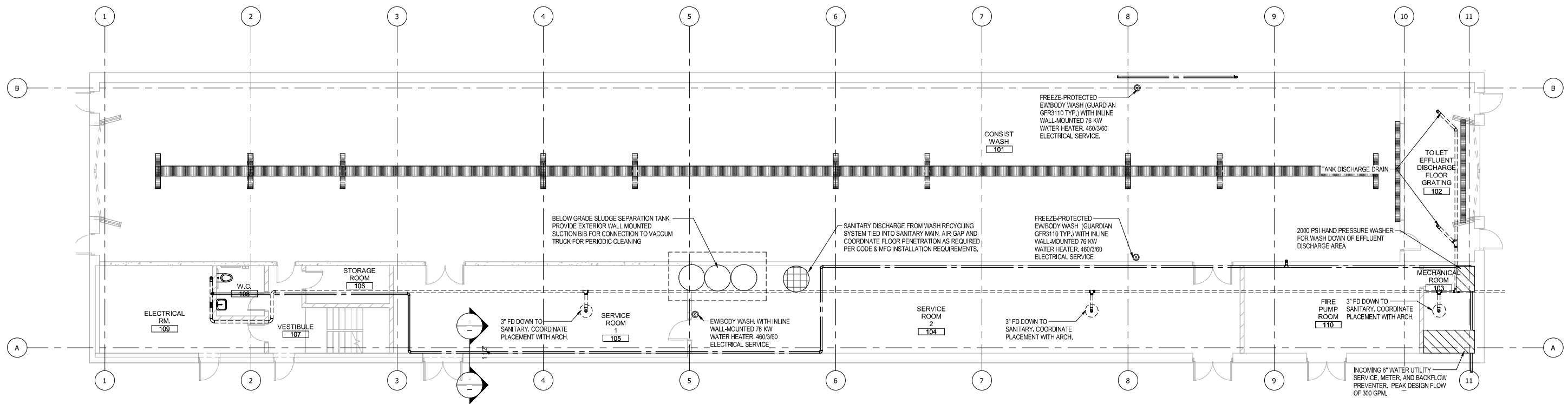


DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH HVAC-LONGITUDINAL SECTIONS	
FILENAME	SHEET
SCALE	345 OF 361
1/8" = 1'-0"	

PLOT DATE: 7/19/2017 4:25:08 PM

C:\Users\zalderman\Documents\10013118-FACILITIES-M-CENTRAL-CONSIST WASH_zalderman.rvt



1 PLUM-GROUND LEVEL OVERALL PLUMBING PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES MP-7101



ISSUE	DATE	DESCRIPTION



DESIGNED: ZEA
DRAWN: ZEA
CHECKED: ESA
DATE: 07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH PLUMBING-OVERALL GROUND FLOOR PLAN	
FILENAME	SHEET
SCALE: 1/8" = 1'-0"	346 OF 361

PLOT DATE: 7/19/2017 4:25:09 PM

C:\Users\zaldeman\Documents\10013118-FACILITIES-M-CENTRAL-CONSIST WASH_zaldeman.rvt

SYMBOLS

- AS — AUTOMATIC SPRINKLER PIPE
- DP — DRY PIPE
- F — FIRE WATER SUPPLY
- FDC — FIRE DEPARTMENT CONNECTION PIPING
- SD — SPRINKLER DRAIN
- WP — WET PIPE
- PIPING: DOWN
- PIPING: UP
- PIPE CONTINUATION
- WATER FLOW INDICATOR
- DIRECTION OF FLOW
- UNION
- CHECK VALVE
- OS&Y VALVE WITH TAMPER SWITCH
- GATE OR BUTTERFLY VALVE WITH TAMPER SWITCH
- DRAIN/TEST VALVE
- DOUBLE CHECK BACKFLOW PREVENTER
- SIGHT GLASS
- FIRE DEPARTMENT SIAMENSE CONNECTION

GENERAL NOTES

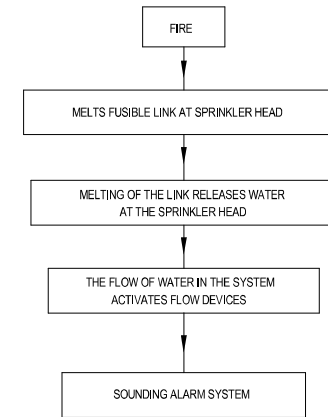
- A. THE BUILDING SHALL BE PROTECTED WITH A WET PIPE SPRINKLER SYSTEM UNLESS NOTED OTHERWISE.
- B. THE WET PIPE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED. DESIGN DENSITIES AND SPRINKLER HEAD COVERAGE ARE LISTED IN DIVISION 21 SPECIFICATIONS.
- C. HYDRAULIC CALCULATIONS SHALL BE PREPARED IN ACCORDANCE WITH THE NFPA-13 STANDARD.
- D. ALL PIPING SHALL BE CONCEALED IN AREAS WITH FINISHED CEILINGS WHERE POSSIBLE.
- E. ALL FLOW TEST DRAINS SHALL BE PIPED TO A SUITABLE DRAIN THAT DISCHARGES TO THE EXTERIOR OF THE BUILDING OR AS INDICATED ON THE DRAWINGS.
- F. AUXILIARY DRAINS SHALL BE PROVIDED, WHERE REQUIRED, FOR SYSTEM DRAINAGE.
- G. THE FIRE PROTECTION DEVICES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.
- H. COORDINATE FIRE SPRINKLER WORK WITH ARCHITECTURAL (REFLECTED CEILING PLAN), ELECTRICAL (LIGHTING), HVAC (DUCTWORK AND PIPING), AND PLUMBING, BEFORE COMMENCING WORK.
- I. ALL SYSTEM CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED.
- J. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR COSTS, PERMIT FEES AND EQUIPMENT REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL SPRINKLER SYSTEM, AS INDICATED IN THE CONTRACT DOCUMENTS.
- K. CONTRACTOR SHALL PREPARE AND SUBMIT SPRINKLER PLANS AND PRODUCT DATA SHEETS THAT CONTAIN SUFFICIENT DETAIL FOR THE AUTHORITIES HAVING JURISDICTION TO EVALUATE THE HAZARD AND EFFECTIVENESS OF THE SPRINKLER SYSTEM.
- L. INSTALLATION OF THE FIRE SUPPRESSION SYSTEM SHALL BE IN ACCORDANCE WITH NFPA STANDARDS, THE STATE OF INDIANA FIRE CODE, AND OTHER LOCAL FIRE CODE AUTHORITY HAVING JURISDICTION.
- M. HYDRAULIC CALCULATIONS AND SHOP DRAWINGS SUBMITTALS SHALL BE SIGNED AND STAMPED BY A QUALIFIED FIRE PROTECTION PROFESSIONAL ENGINEER.
- N. ANY CONFLICTS WHICH OCCUR DUE TO LACK OF COORDINATION OF THE SPRINKLER CONTRACTOR WITH OTHER DIVISIONS SHALL BE CORRECTED BY THE SPRINKLER CONTRACTOR WITH NO FURTHER EXPENSE TO OWNER.
- O. SPRINKLER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE NFPA-13 AND BY THE AUTHORITY HAVING JURISDICTION BEFORE COMMISSIONING THE SPRINKLER SYSTEMS.

ABBREVIATIONS

- AS AUTOMATIC SPRINKLER PIPING
- DN DOWN
- DP DRY PIPE PIPING
- DWG DRAWING
- CONT CONTINUATION
- F FIRE WATER SUPPLY
- FDC FIRE DEPARTMENT CONNECTION
- FHV FIRE HOSE VALVE
- SD SPRINKLER DRAIN
- OS&Y OUTSIDE SCREW & YOKE
- TYP TYPICAL
- WP WET PIPE

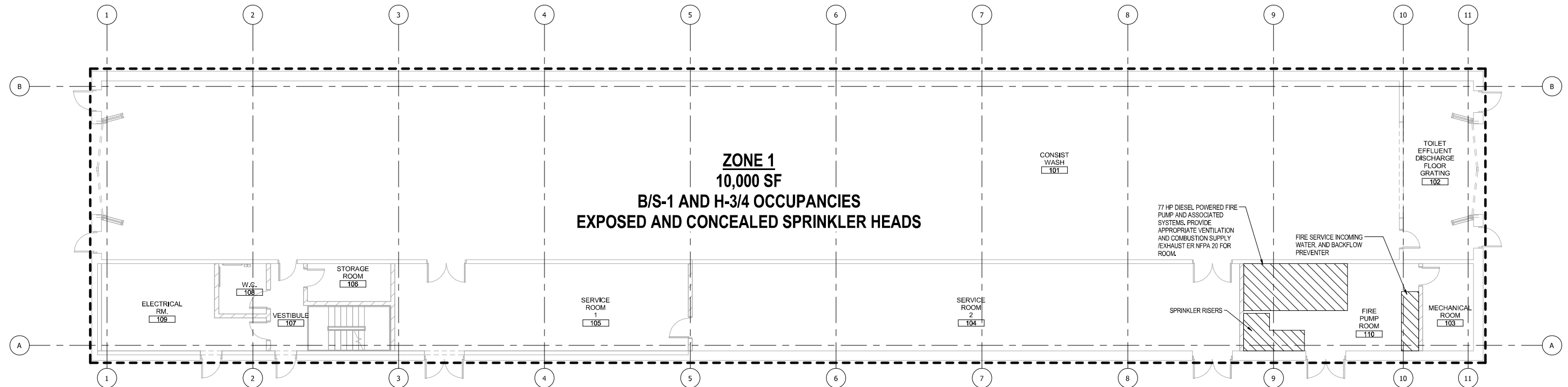
FIRE PROTECTION BASIS OF DESIGN

OCCUPANCY/CONSTRUCTION TYPE	H-3/4
GPM&SF REQUIRED	- 0.34x2500
SPRINKLER DURATION	- 120 MINUTES
MAXIMUM AREA PER ZONE	- 52,000SF
FLOW ZONE WITH HOSE CONNECTION	- 1438 GPM



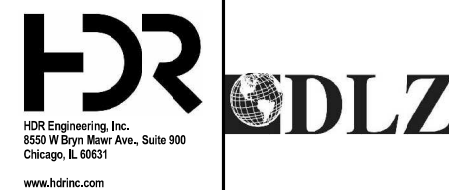
WET PIPE SYSTEM OPERATIONAL DIAGRAM

2 FIRE PROTECTION GENERAL
NTS



1 01-P-FIRE PROTECT-PLAN
1/8" = 1'-0"

NOT FOR CONSTRUCTION SERIES MF-7101



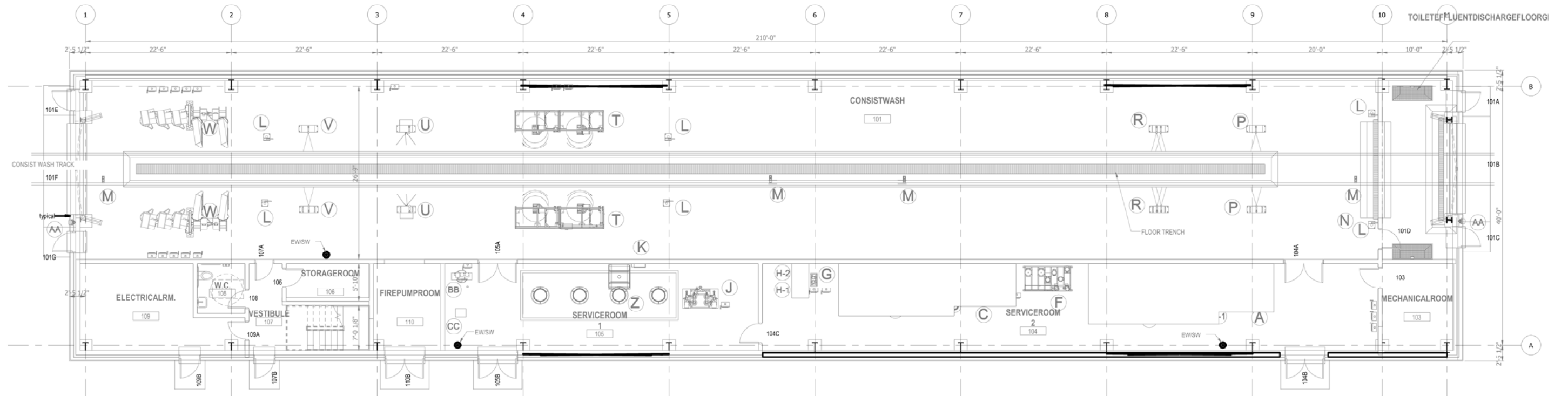
DYER TO HAMMOND, INDIANA

DESIGNED:	ZEA
DRAWN:	ZEA
CHECKED:	ESA
DATE:	07/21/2017

MCTD - WEST LAKE CORRIDOR - MP MP 7.24 Project Name	
CONSIST WASH FIRE-GENERAL NOTES AND FLOORPLAN	
FILENAME	SHEET
SCALE	347 OF 361

PLOT DATE: 7/19/2017 4:25:08 PM

- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-7602 FOR CABLE AND CONDUIT SCHEDULE.
 - SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



1 GROUND LEVEL LIGHTING PLAN
E-7101 SCALE: 1/8" = 1'-0"

PLOT DATE: 07/19/2017 10:24:00 PM

NOT FOR CONSTRUCTION SERIES E-7101



AAA ENGINEERING
 ONE CERTIFIED
 AAA Engineering, Ltd.
 4323 W Irving Park Rd., Suite 200
 Chicago, IL 60641
 P: 773-457-3300 F: 773-457-3330
 www.AAAEngineering.net

ISSUE	DATE	DESCRIPTION



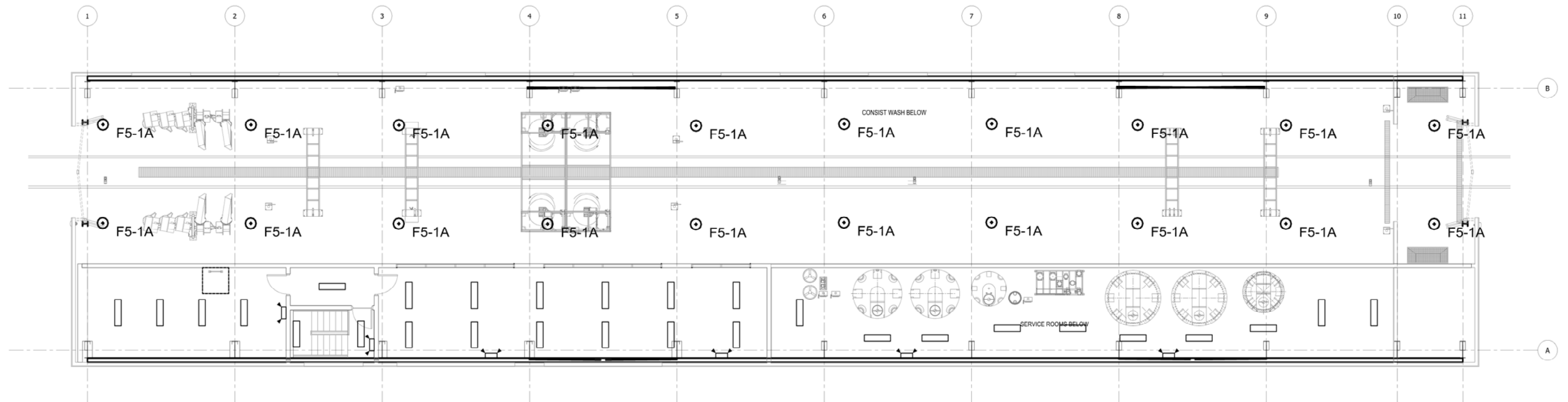
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH	
GROUND LEVEL LIGHTING PLAN	
FILENAME	SHT_WL_E_HAMWASH_PL_01
SCALE	1/8" = 1' - 0"
SHEET	348 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-7602 FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



1 MEZZANINE LEVEL LIGHTING PLAN
E-7102 SCALE: 1/8" = 1'-0"

PLOT DATE: 07/19/2017 10:24:47 PM

NOT FOR CONSTRUCTION SERIES E-7102

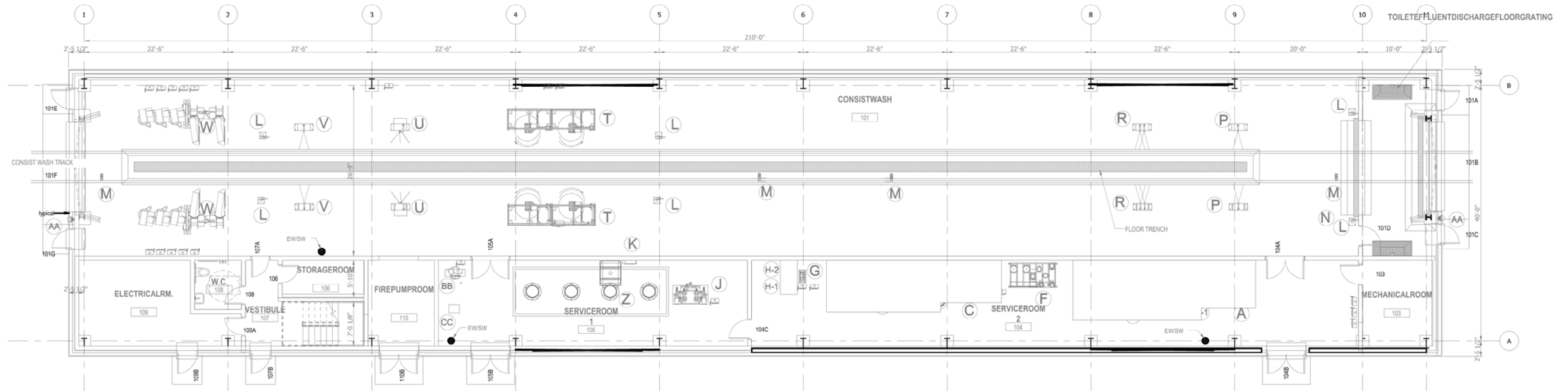


DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH	
MEZZANINE LEVEL LIGHTING PLAN	
FILENAME	SHT_WL_E_HAMWASH_PL_02
SCALE	1/8" = 1' - 0"
SHEET	349 OF 361

- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-7602 FOR CABLE AND CONDUIT SCHEDULE.



1 GROUND LEVEL POWER PLAN
E-7103 SCALE: 1/8" = 1'-0"

PLOT DATE: 07/19/2017 10:25:18 PM

NOT FOR CONSTRUCTION SERIES E-7103



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 4323 W Irving Park Rd., Suite 200
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 www.AAAEngineering.net

ISSUE	DATE	DESCRIPTION

NICTD
 NORTHERN INDIANA COMMUTER
 TRANSPORTATION DISTRICT
 33 East Highway 12
 Chesterton, Indiana 46304



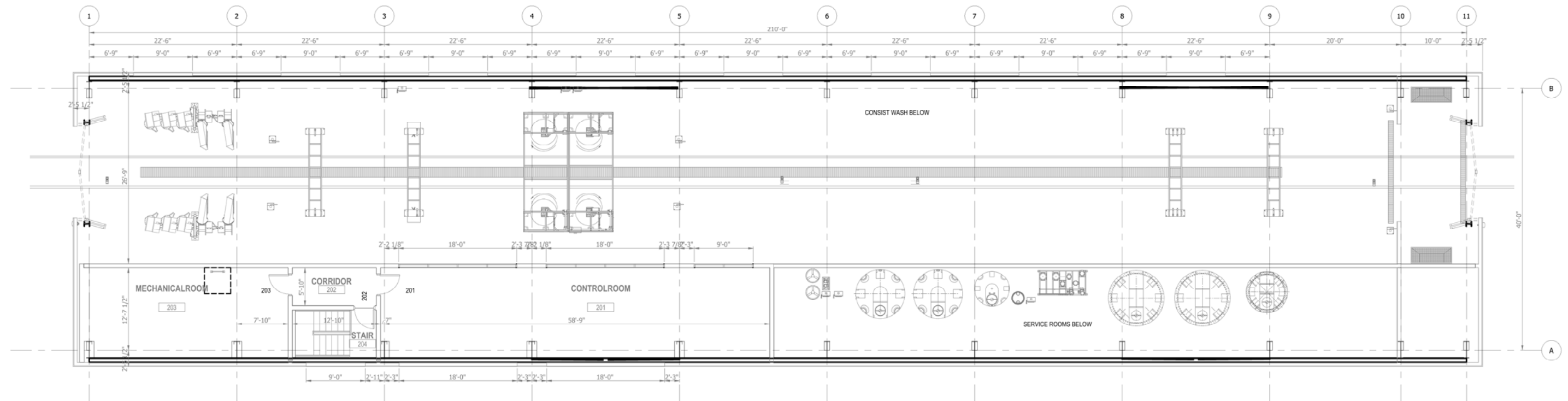
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH	
GROUND LEVEL POWER PLAN	
FILENAME	SHT_WL_E_HAMWASH_PL_03
SCALE	1/8" = 1' - 0"
SHEET	350 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-7602 FOR CABLE AND CONDUIT SCHEDULE.



1 MEZZANINE LEVEL POWER PLAN
E-7104 SCALE: 1/8" = 1'-0"

PLOT DATE: 07/19/2017 10:25:46 PM

NOT FOR CONSTRUCTION SERIES E-7104



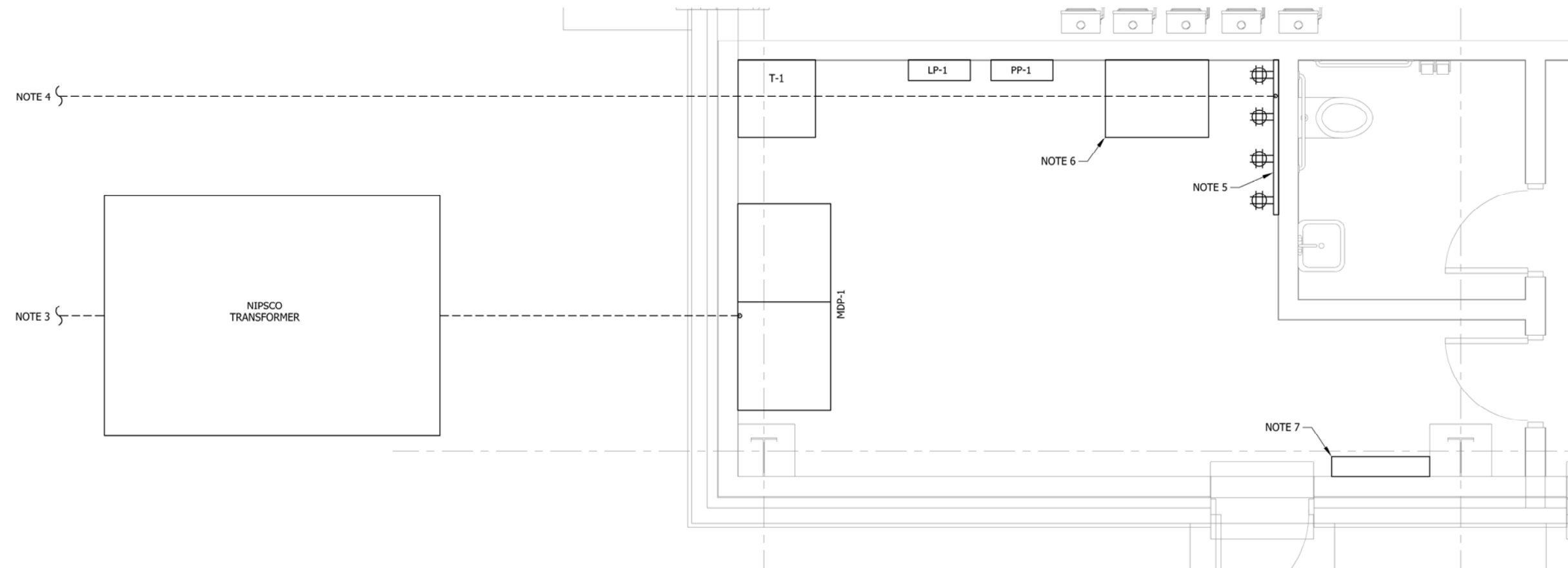
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH	
MEZZANINE LEVEL POWER PLAN	
FILENAME	SHT_WL_E_HAMWASH_PL_04
SCALE	1/8" = 1' - 0"
SHEET	351 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-7602 FOR CABLE AND CONDUIT SCHEDULE.
3. 2-4" PVC SCHEDULE 40 CONDUIT TO NIPSCO POLE.
4. 4-4" PVC SCHEDULE 40 CONDUIT FOR DATA, COMMUNICATIONS, TELEPHONE, AND FIBER OPTIC CABLE.
5. 3/4" x 4' x 6" FIRE RATED PLYWOOD BOARD FOR COMMUNICATIONS.
6. COMMUNICATIONS RACK.
7. FIRE ALARM CONTROL PANEL (FACP).
8. PUBLIC ADDRESS SYSTEM RACK.



1 ELECTRICAL ROOM 109 ENLARGED PLAN
E-7401 SCALE: 1/2" = 1'-0"



NOT FOR CONSTRUCTION SERIES E-7401

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH		
ENLARGED ROOM PLANS		
FILENAME	SHT_WL_E_HAMWASH_LS_01	SHEET
SCALE	1/2" = 1' - 0"	352 OF 361

PLOT DATE: 07/19/2017 10:22:56 PM

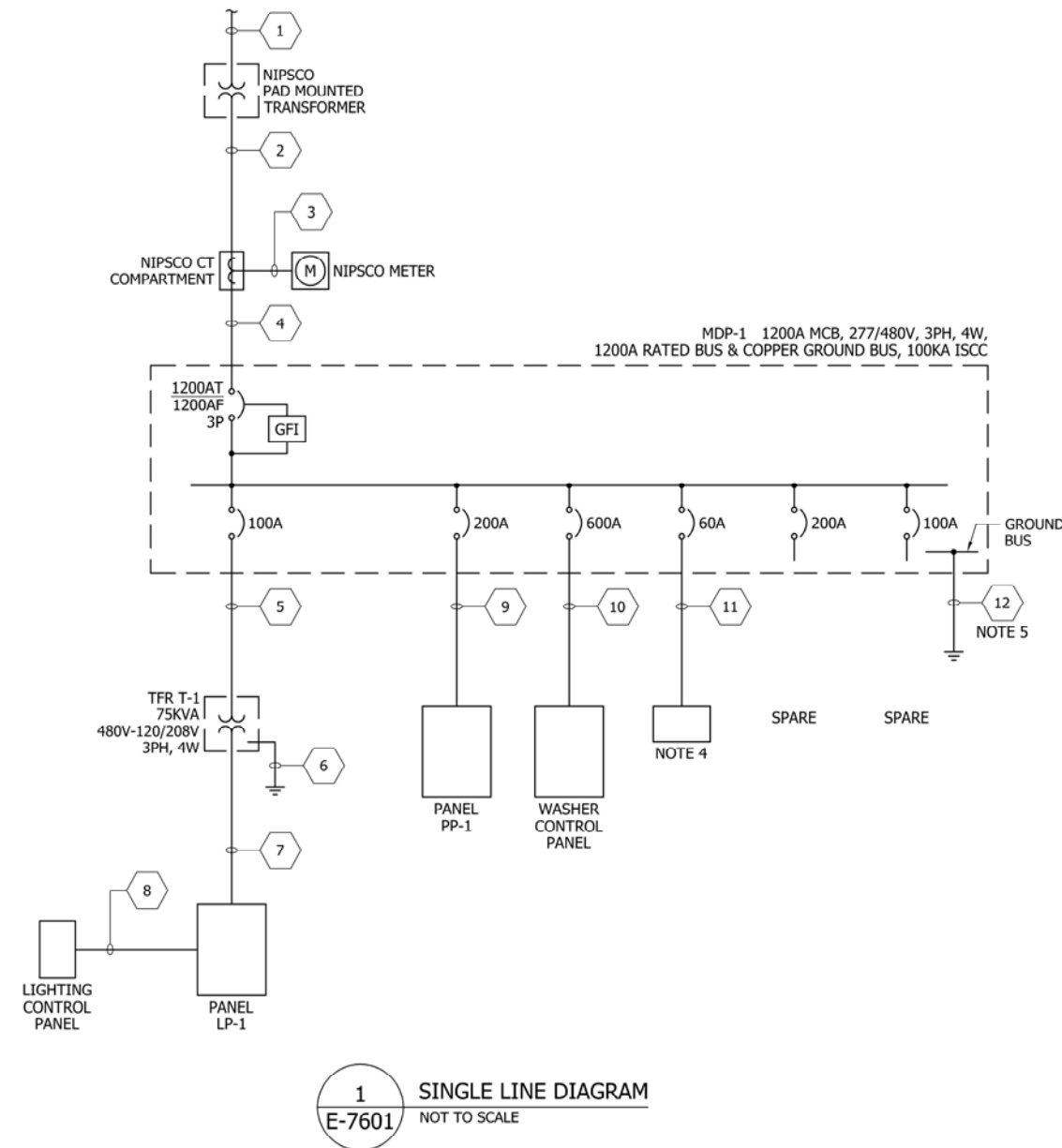


ISSUE	DATE	DESCRIPTION



NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. ALL CIRCUIT BREAKERS ARE 3 POLE, UNO.
3. MDP-1 SHALL BE SERVICE ENTRANCE RATED AND UL LISTED.
4. SURGE PROTECTION DEVICE. 400KA PER PHASE.
5. GROUND CABLE GROUNDED TO TRIAD OF 3-10 FOOT LONG, 3/4" DIA. STAINLESS STEEL GROUNDING RODS.



PLOT DATE: 07/19/2017 10:21:08 PM

NOT FOR CONSTRUCTION SERIES E-7601



ISSUE	DATE	DESCRIPTION



DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH		SHEET
SINGLE LINE DIAGRAM		353 OF 361
FILENAME	SHT_WL_E_HAMWASH_GN_01	SHEET
SCALE	NONE	353 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. 2-4" PVC SCHEDULE 40 CONDUITS TO NIPSCO POLE FOR PRIMARY TRANSFORMER FEEDER CABLE. CABLE FURNISHED AND INSTALLED BY NIPSCO.
3. CONDUIT, PVC SCHEDULE 40.
4. CONDUIT TO BE GRC.
5. GROUND CABLE GROUNDED TO 10 FOOT LONG, 3/4" DIA. STAINLESS STEEL GROUNDING ROD.

CABLE AND CONDUIT SCHEDULE			
LEGEND NUMBER	CABLE DESCRIPTION QUANTITY/SIZES	CONDUIT SIZE (INCHES)	NOTES
1		(2) 4	2
2	3 SETS 4 #600 KCMIL & 1 #250 KCMIL GRD	(3) 4	3
3	10 #10 AWG	1	4
4	3 SETS 4 #600 KCMIL & 1 #250 KCMIL GRD	(3) 4	4
5	3 #2 AWG & 1 #8 AWG GRD	1 1/2	4
6	1 #4 AWG GRD	1	4, 5
7	4 #2/0 AWG & 1 #4 AWG GRD	2 1/2	4
8	8 #10 AWG & 1 #10 AWG GRD	1	4
9	4 #4/0 AWG & 1 #4 AWG GRD	2 1/2	4
10	2 SETS 4 #500 KCMIL & 1 #1/0 AWG GRD	(2) 4	4
11	4 #6 AWG & 1 #8 AWG GRD	1	4
12	1 #250 KCMIL GRD	2	4
13			
14			
15			

PLOT DATE: 07/19/2017 10:21:51 PM

NOT FOR CONSTRUCTION SERIES E-7602



ISSUE	DATE	DESCRIPTION



DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP 7.24
HAMMOND TRAIN CONSIST WASH

CABLE AND CONDUIT SCHEDULE

FILENAME	SHT_WL_E_HAMWASH_GN_02	SHEET	354 OF 361
SCALE	NONE		

NOTES:

- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.

PANEL: LP-1		VOLTAGE: 120/208V, 3P, 4W		ENCLOSURE: NEMA 1		MAIN MOUNTING BUS		225A MCB		250A WITH GROUND BUS			
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE	
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE		
SPARE	20	1				1	2				20	1	SPARE
SPARE	20	1				3	4				20	1	SPARE
SPARE	20	1				5	6				20	1	SPARE
SPARE	20	1				7	8				20	1	SPARE
SPARE	20	1				9	10				20	1	SPARE
SPARE	20	1				11	12				20	1	SPARE
SPARE	20	1				13	14				20	1	SPARE
SPARE	20	1				15	16				20	1	SPARE
SPARE	20	1				17	18				20	1	SPARE
SPARE	20	1				19	20				20	1	SPARE
SPARE	20	1				21	22				20	1	SPARE
SPARE	20	1				23	24				20	1	SPARE
SPARE	20	1				25	26				20	1	SPARE
SPARE	20	1				27	28				20	1	SPARE
SPARE	20	1				29	30				20	1	SPARE
SPARE	20	1				31	32				20	1	SPARE
SPARE	20	1				33	34				20	1	SPARE
SPARE	20	1				35	36				20	1	SPARE
SPARE	20	1				37	38				20	1	SPARE
SPARE	20	1				39	40				20	1	SPARE
SPARE	20	1				41	42				20	1	SPARE
TOTALS			0	0	0			0	0	0			
PHASE A:	0 VA												
PHASE B:	0 VA												
PHASE C:	0 VA												
TOTAL CONNECTED VA	0 VA												
AMPS	0 A		CONNECTED										
1.25X AMPS	0 A												

PANEL: PP-1		VOLTAGE: 480/277V, 3P, 4W		ENCLOSURE: NEMA 1		MAIN MOUNTING BUS		200A MCB		250A WITH GROUND BUS			
CIRCUIT USE	BREAKERS		LOAD (VA)			CKT #	LOAD (VA)			BREAKERS		CIRCUIT USE	
	TRIP	POLE	A	B	C		A	B	C	TRIP	POLE		
SPARE	20	1				1	2				20	1	SPARE
SPARE	20	1				3	4				20	1	SPARE
SPARE	20	1				5	6				20	1	SPARE
SPARE	20	1				7	8				20	1	SPARE
SPARE	20	1				9	10				20	1	SPARE
SPARE	20	1				11	12				20	1	SPARE
SPARE	20	1				13	14				20	1	SPARE
SPARE	20	1				15	16				20	1	SPARE
SPARE	20	1				17	18				20	1	SPARE
SPARE	20	1				19	20				20	1	SPARE
SPARE	20	1				21	22				20	1	SPARE
SPARE	20	1				23	24				20	1	SPARE
SPARE	20	1				25	26				20	1	SPARE
SPARE	20	1				27	28				20	1	SPARE
SPARE	20	1				29	30				20	1	SPARE
SPARE	20	1				31	32				20	1	SPARE
SPARE	20	1				33	34				20	1	SPARE
SPARE	20	1				35	36				20	1	SPARE
SPARE	20	1				37	38				20	1	SPARE
SPARE	20	1				39	40				20	1	SPARE
SPARE	20	1				41	42				20	1	SPARE
TOTALS			0	0	0			0	0	0			
PHASE A:	0 VA												
PHASE B:	0 VA												
PHASE C:	0 VA												
TOTAL CONNECTED VA	0 VA												
AMPS	0 A		CONNECTED										
1.25X AMPS	0 A												

PLOT DATE: 07/19/2017 10:22:32 PM

NOT FOR CONSTRUCTION SERIES E-7603



ISSUE	DATE	DESCRIPTION

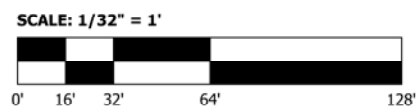


DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

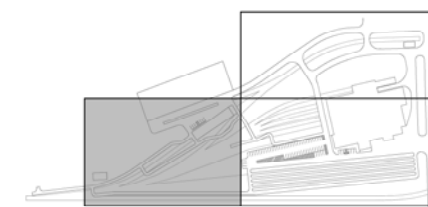
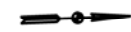
NICTD - WEST LAKE CORRIDOR - MP 7.24 HAMMOND TRAIN CONSIST WASH		
PANELBOARD SCHEDULES		
FILENAME	SHT_WL_E_HAMWASH_GN_03	SHEET
SCALE	NONE	355 OF 361

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-XXXX FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



1
E-8101 MAINTENANCE YARD LIGHTING PLAN
SCALE: 1/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION SERIES E-8101

NICTD - WEST LAKE CORRIDOR - MP WL 68.46 MAINTENANCE YARD		
MAINTENANCE YARD LIGHTING PLAN		
FILENAME	SHT_WL_E_HAMYARD_PL_01	SHEET
SCALE	1/32" = 1' - 0"	356 OF 361

PLOT DATE: 07/19/2017 10:29:22 PM



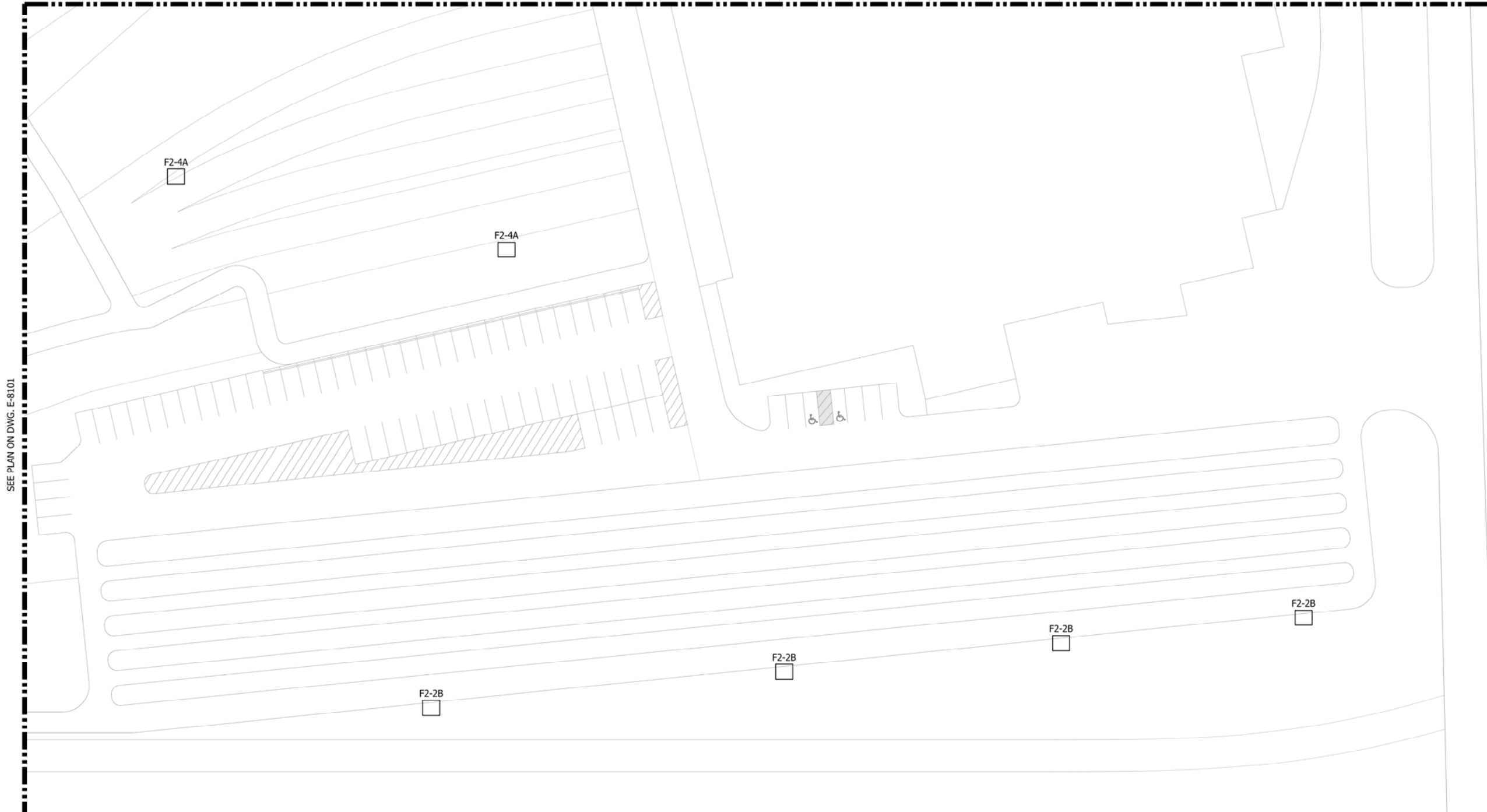
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

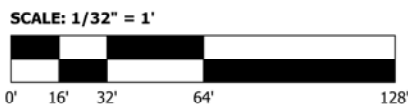
SEE PLAN ON DWG. E-8103

NOTES:

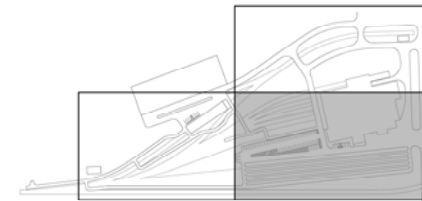
1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-XXXX FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



SEE PLAN ON DWG. E-8101



1
E-8102 MAINTENANCE YARD LIGHTING PLAN
SCALE: 1/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION SERIES E-8102

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
MAINTENANCE YARD

MAINTENANCE YARD LIGHTING PLAN

FILENAME	SHT_WL_E_HAMYARD_PL_02	SHEET	357 OF 361
SCALE	1/32" = 1' - 0"		

HDR Engineering, Inc.
8550 W Bryn Mawr Ave., Suite 900
Chicago, IL 60631
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AAA ENGINEERING
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AAA Engineering, Ltd.
4323 W Irving Park Rd., Suite 200
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www.AAAEngineering.net

ISSUE	DATE	DESCRIPTION

NORTHERN INDIANA COMMUTER
TRANSPORTATION DISTRICT
33 East Highway 12
Chesterton, Indiana 46304

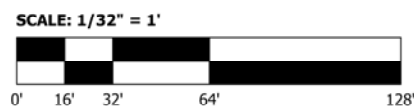
**WEST LAKE
CORRIDOR**
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

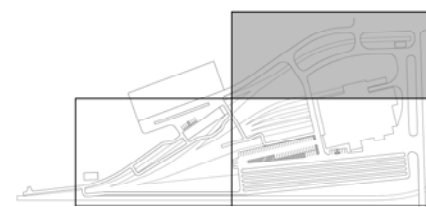
PLOT DATE: 07/19/2017 10:28:59 PM

NOTES:

1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-XXXX FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.



1
E-8103 MAINTENANCE YARD LIGHTING PLAN
SCALE: 1/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION SERIES E-8103

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8550 W Bryn Mawr Ave., Suite 900
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TRANSPORTATION DISTRICT
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**WEST LAKE
CORRIDOR**
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DESIGNED:	A. FAREKAS
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CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

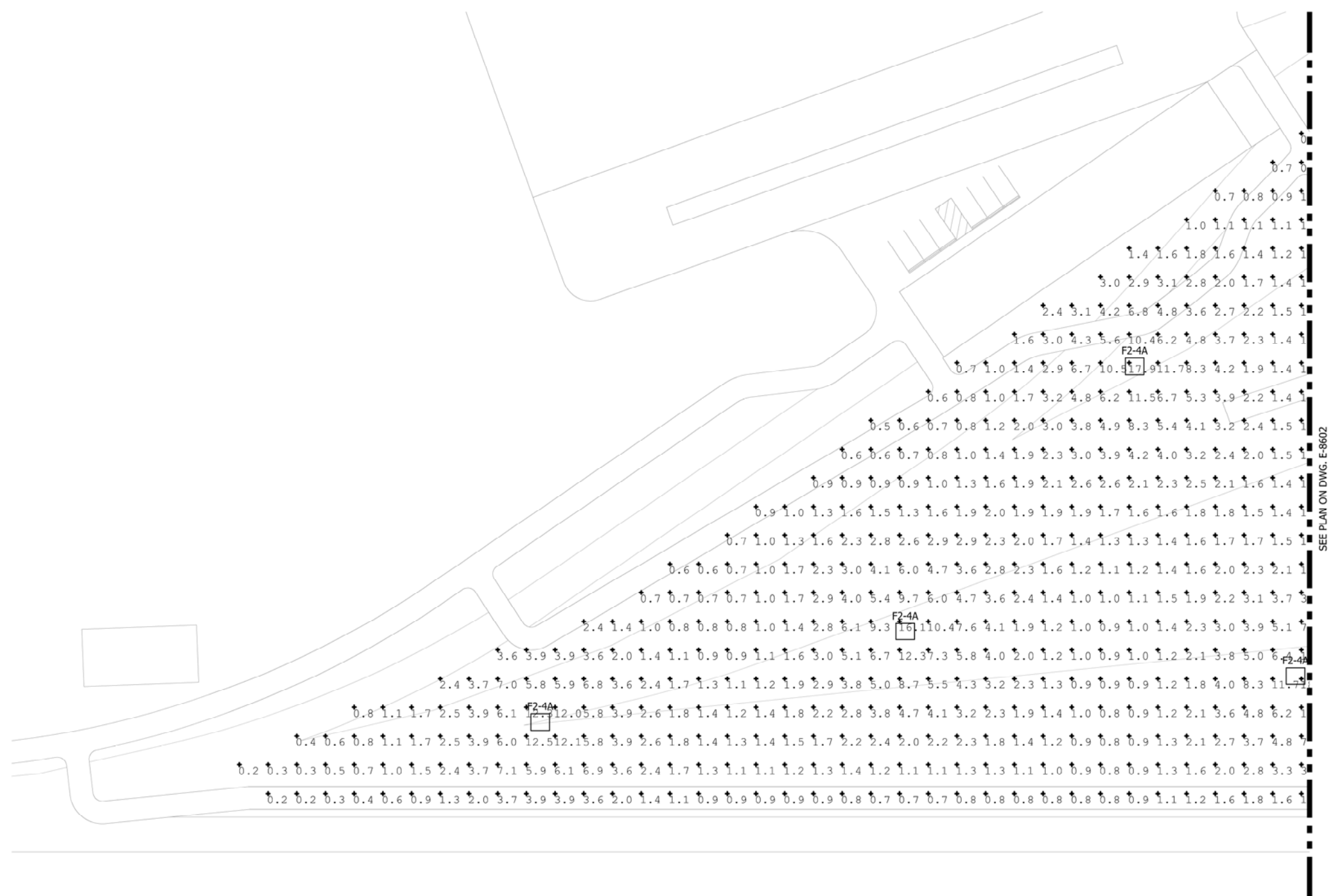
NICTD - WEST LAKE CORRIDOR - MP WL 68.46
MAINTENANCE YARD

MAINTENANCE YARD LIGHTING PLAN

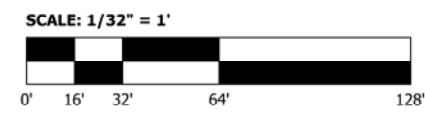
FILENAME	SHT_WL_E_HAMYARD_PL_03	SHEET	358 OF 361
SCALE	1/32" = 1' - 0"		

PLOT DATE: 07/19/2017 10:28:35 PM

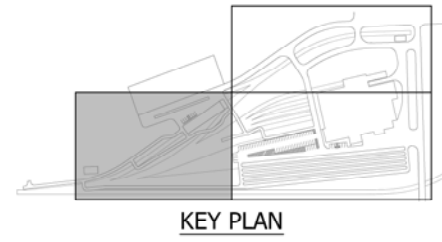
- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.
 - SEE SHEET E-8603 FOR PHOTOMETRIC TABLES.



SEE PLAN ON DWG. E-8602



1 MAINTENANCE YARD PHOTOMETRICS PLAN
E-8601 SCALE: 1/32" = 1'-0"



NOT FOR CONSTRUCTION SERIES E-8601

PLOT DATE: 07/19/2017 10:28:11 PM

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ISSUE	DATE	DESCRIPTION

NICTD
NORTHERN INDIANA COMMUTER
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33 East Highway 12
Chesterton, Indiana 46304

WEST LAKE CORRIDOR
DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
MAINTENANCE YARD

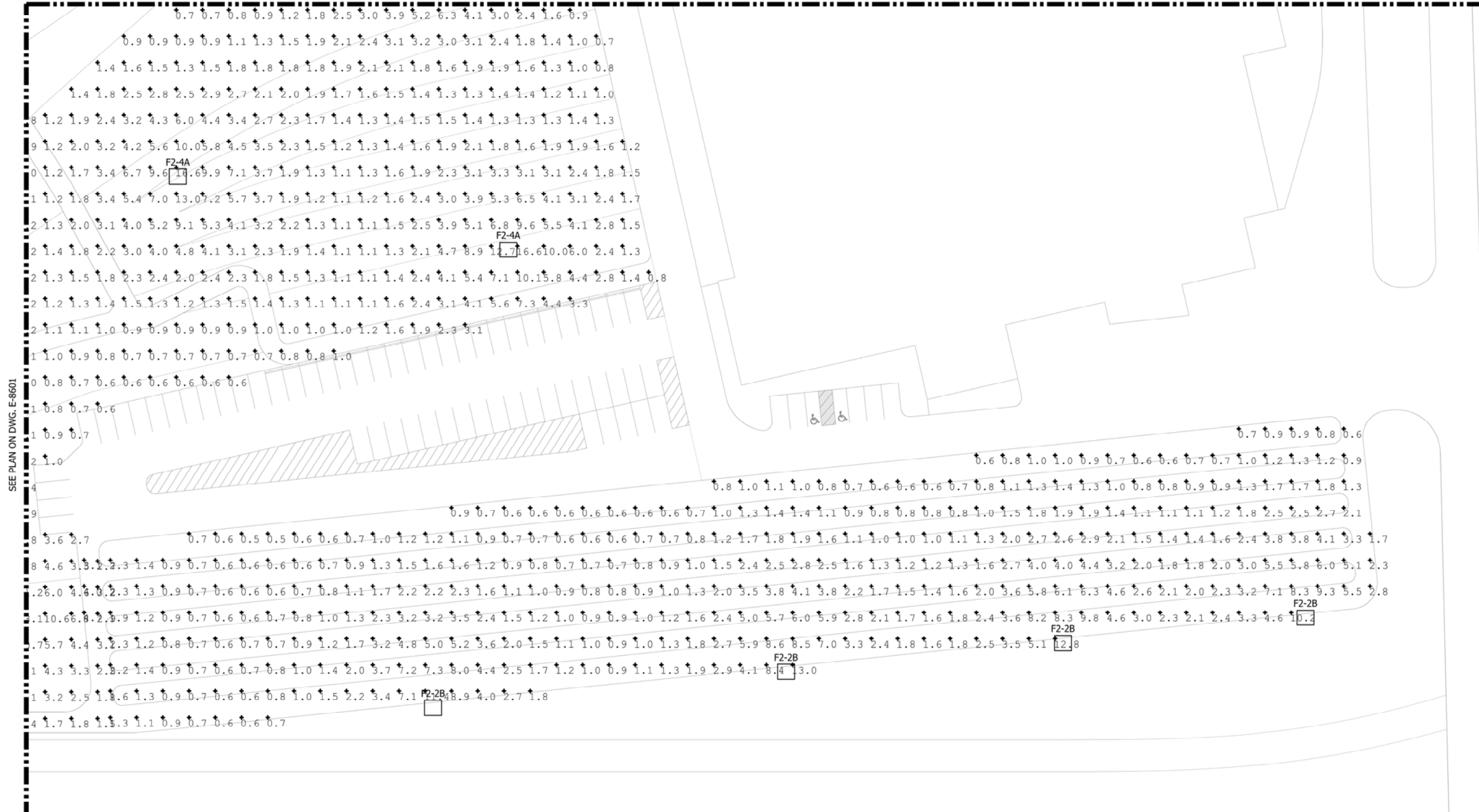
**MAINTENANCE YARD
PHOTOMETRICS PLAN**

FILENAME	SHT_WL_E_HAMYARD_PL_04	SHEET	359 OF 361
SCALE	1/32" = 1' - 0"		

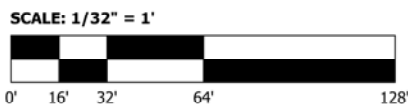
SEE PLAN ON DWG. E-8603

NOTES:

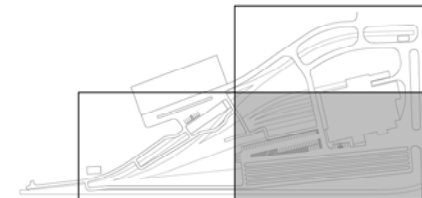
1. SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.
3. SEE SHEET E-8603 FOR PHOTOMETRIC TABLES.



SEE PLAN ON DWG. E-8601



1 MAINTENANCE YARD PHOTOMETRICS PLAN
 E-8602 SCALE: 1/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION SERIES E-8602

NICTD - WEST LAKE CORRIDOR - MP WL 68.46
 MAINTENANCE YARD

**MAINTENANCE YARD
 PHOTOMETRICS PLAN**



DYER TO HAMMOND, INDIANA

DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

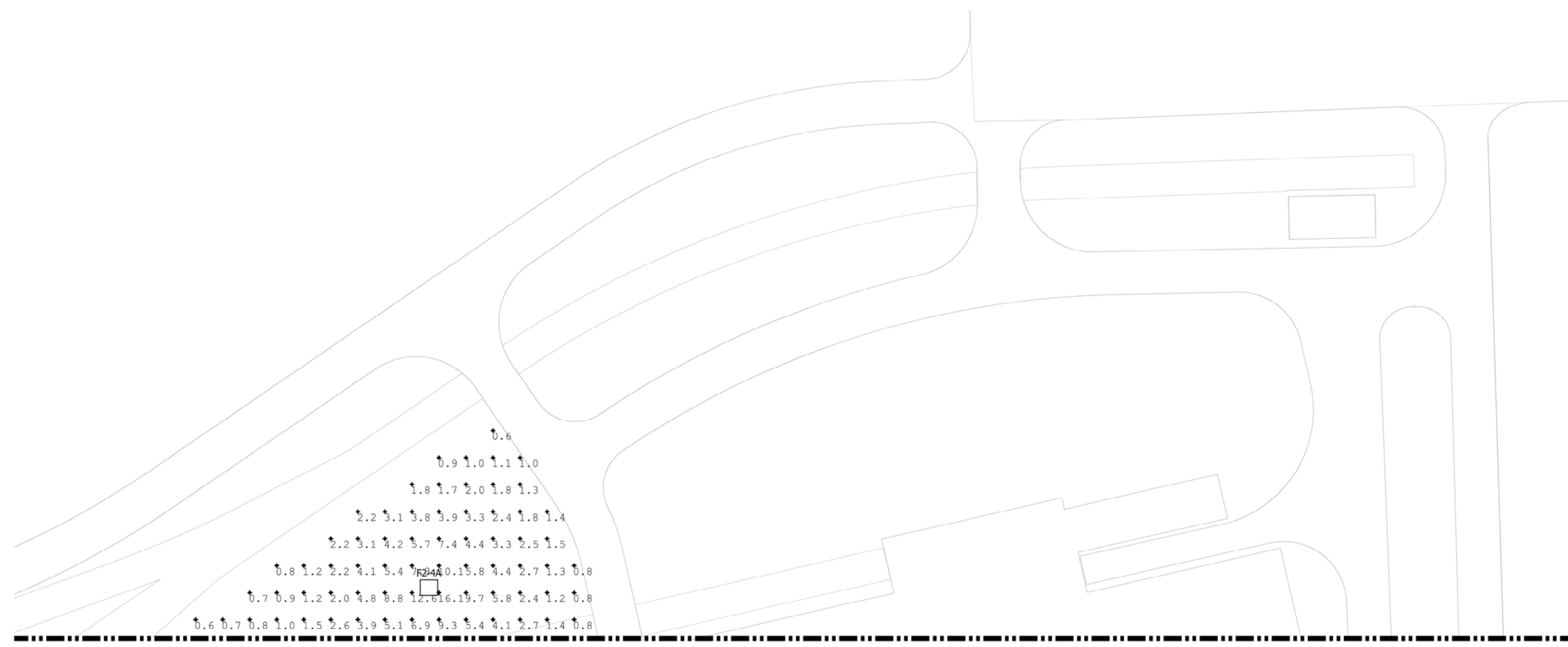
FILENAME	SHT_WL_E_HAMYARD_PL_05	SHEET	360 OF 361
SCALE	1/32" = 1' - 0"		

PLOT DATE: 07/19/2017 10:27:48 PM

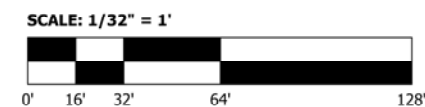
- NOTES:**
- SEE SHEETS E-0001 AND E-0002 FOR ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES.
 - SEE SHEET E-0601 FOR LIGHTING FIXTURE SCHEDULE.
 - PHOTOMETRIC TABLES APPLY TO SHEETS E-8601 AND E-8602.

Luminaire Schedule									
Symbol	Qty	Tag	Label	Arrangement	Tilt	Lum. Watts	Mounting Height (ft.)	LLF	Description
⌈	4	F2-2B	HLF2_LED_P2_40K_MFL_MVOLT_1	2 @ 45 DEGREES	45 deg	487	50	0.700	HLF2 LED P2 40K MFL MVOLT
⌋	7	F2-4A	HLF2_LED_P1_40K_MFL_MVOLT	4 @ 90 DEGREES	45 deg	328	50	0.700	HLF2 LED P1 40K MFL MVOLT

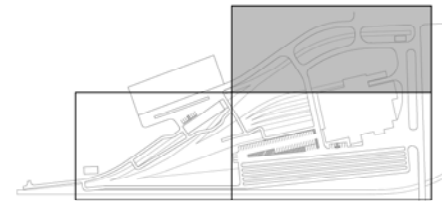
Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	IES Handbook 10th Ed. Criteria (Avg)	IES Handbook 10th Ed. Criteria (Max:Min)
Maintenance Yard_1	Illuminance	Fc	2.13	13.0	0.5	4.26	26.00	1.0	10:0
Maintenance Yard_2	Illuminance	Fc	2.74	18.1	0.2	13.70	90.50	2.0	10:0



SEE PLAN ON DWG. E-8602



1 MAINTENANCE YARD PHOTOMETRICS PLAN
E-8603 SCALE: 1/32" = 1'-0"



KEY PLAN

NOT FOR CONSTRUCTION SERIES E-8603



ISSUE	DATE	DESCRIPTION



DESIGNED:	A. FAREKAS
DRAWN:	C. MARTIN
CHECKED:	M. BLUMENTHAL
DATE:	07/21/17

NICTD - WEST LAKE CORRIDOR - MP WL 68.46 MAINTENANCE YARD		
MAINTENANCE YARD PHOTOMETRICS PLAN		
FILENAME	SHT_WL_E_HAMYARD_PL_06	SHEET
SCALE	1/32" = 1' - 0"	361 OF 361

PLOT DATE: 07/19/2017 10:27:21 PM