Appendix E. Engineering Drawings
(Part 3 of 10)
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## SHEET INDEX

### General

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### Station & Facility

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<th>Description</th>
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<td>E-4001 - AR-1601</td>
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<tr>
<td>362 - 361</td>
<td>E-5001 - F-8903</td>
</tr>
</tbody>
</table>

These sheets cover various stations and facilities along the Chesterton, Indiana to Hammond, Indiana corridor. The sheets include legends, symbols, schedules, details, and notes for the construction of the NICTD - West Lake Corridor transportation system.
2.4 SPECIAL REQUIREMENTS: IBC IFC

HAZARDOUS MATERIALS   < M.A.Q. §307.1

ACCESS. OCCUPANCY (<10%)   NA §303.3

2.3 USE & OCCUPANCY CLASSIFICATION: IBC IFC

SUMMARY:

2014 IBC AND SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY BASED ON THE FOLLOWING BUILDING DATA

TYPICAL STATIONS ARE EITHER EQUIVALENT TO, OR LESS RESTRICTIVE THAN, THE CODE ANALYIS PROVIDED FOR

GROUP A-2 AUTOMATIC SPRINKLER REQUIREMENTS

2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND AND

ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OR AS PART OF THAT OCCUPANCY.

TRANSPORTATION DISTRICT GATEWAY (AND TYPICAL) STATIONS FOR THE WESTLAKE CORRIDOR CONNECTING

THE FOLLOWING CODE REVIEW NARRATIVE IS PROVIDED TO SERVE AS A BASIS OF UNDERSTANDING FOR THE

2.1 DESCRIPTION

www.hdrinc.com

Chicago, IL 60631

8550 W Bryn Mawr Ave., Suite 900

HDR Engineering, Inc.

Chesterton, Indiana 46304

33 East Highway 12

TRANSPORTATION DISTRICT

NORTHERN INDIANA COMMUTER

PROJECT NAME

SERIES

CONCEPTUAL BUILDING FIRE & LIFE SAFETY CODE ANALYSIS

DYER TO HAMMOND, INDIANA

CONCEPTUAL BUILDING FIRE & LIFE SAFETY CODE ANALYSIS

AR-0006

DATE

DESIGNED:

DRAWN:

CHECKED:

NOTE FOR CONSTRUCTION

FILENAME

CONCEPTUAL BUILDING FIRE & LIFE SAFETY CODE ANALYSIS

DYER TO HAMMOND, INDIANA

NOT FOR CONSTRUCTION

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Scale

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DESIGNER
### STATEMENT OF ESTIMATED QUANTITIES - HAMMOND GATEWAY

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<th>Quantity</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>20’ CAT 5E CABLE</td>
<td>20’</td>
</tr>
<tr>
<td>FIBER OPTIC TERMINAL</td>
<td></td>
</tr>
<tr>
<td>WALL MOUNT COMMUNICATIONS CABINET</td>
<td></td>
</tr>
<tr>
<td>12-PORT MANAGED POE SWITCH</td>
<td>12-PORT</td>
</tr>
<tr>
<td>24-PORT MANAGED POE SWITCH</td>
<td>24-PORT</td>
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<tr>
<td>REAL-TIME PASSAGES INFORMATION DISPLAY - DUAL SIDED</td>
<td></td>
</tr>
<tr>
<td>PUBLIC ADDRESS SPEAKERS</td>
<td></td>
</tr>
<tr>
<td>ZONE CONTROLLER</td>
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<tr>
<td>AMPLIFIER</td>
<td></td>
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<tr>
<td>TICKET VENDING MACHINE</td>
<td></td>
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### NORTHWEST INDIANA COMMUTER TRANSPORTATION DISTRICT

**33 East Highway 12**

**CHICAGO**

**HAMMOND**

**INDIANA**

**P L O T  D A T E :**

**9:52:15 AM**

**J.K. JELLMANN**

**www.hdrinc.com**

**8550 W Bryn Mawr Ave., Suite 900**

**Chesterton, Indiana 46304**

**NOT FOR CONSTRUCTION**

**FILENAME:**

**AS NOTED**

**DATE:**

**CHECKED:**

**DRAWN:**

**DESIGNED:**

**J. MERSEREAU**

**S. WICKS**

**07/21/17**

---

### STATEMENT OF ESTIMATED QUANTITIES - SOUTH HAMMOND

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
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<tbody>
<tr>
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### STATEMENT OF ESTIMATED QUANTITIES - MUNSTER DYE

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</tr>
</tbody>
</table>
SOILS AND FOUNDATIONS

1. The information on this sheet shall apply to all structural drawings.
2. Information on this sheet supplement the project specifications. Refer to project specifications for additional requirements.
3. Unless otherwise noted, all details, sections and notes on the drawings are intended to indicate design intent and are to be typical for similar situations elsewhere.

CONCRETE AND REINFORCING STEEL

1. All reinforcement lap and development lengths shall satisfy the minimum requirements.
2. Where bars of different sizes are spliced, the splice length shall be the larger of the required lap length or the development length for the larger bar.
3. All reinforcing bars shall be continuous at corners. Provide dowels or corner bars as required and install prior to placing concrete.
4. Design maximum pile loads are as follows:
   - Cast-in-place concrete F'C=4000 PSI
   - Elevated slabs on metal deck and elevated concrete slabs.

5. Concrete deflection limits shall be as follows for total load:
   - Slab on grade exceeding 1.25 all control joints to be saw cut within 6 hours
   - Uniform (PSF) - Concr. (LBS)

6. Maximum pile loads are as follows:
   - Design maximum pile loads are as follows:
   - Cast-in-place concrete F'C=4000 PSI
   - Elevated slabs on metal deck and elevated concrete slabs.

7. Precast concrete units shall be as follows:
   - All precast structural concrete members shall be in accordance with the American Concrete Institute (ACI) 318-11 "Building Code Requirements for Concrete Structures" and ACI 318-08 "Code for Concrete Structures."
OVEREXCAVATION DETAIL

1. EXTEND FILL 4'-0" OF 1'-0" BEYOND EDGE OF FOOTING
2. REQUIRED THICKNESS OF ENGINEERED SOIL
3. CONSTRUCT TINE/ENGINEERED SOIL
4. SLAB/ENGINEERED SOIL
5. NA

NOTE:
1. CEMENT/BAR SIZE B/2+LD
2. EXTEND FILL A MIN. OF 1'-0" BEYOND EDGE OF FOUNDATION WALL OR PIER
3. FOOTING THICKNESS T/NORMAL EXCAVATION PER PLANS

FOOTING OR BASE SLAB

REQUIRED THICKNESS

#3 24"
#4 25"
#5 31"
#6 48"
#

NOTE:
1. AT THE FOOTING ELEVATIONS INDICATED, UNDERCUTTING AND REPLACEMENT WITH SOIL WHICH ARE GREATER THAN THE DESIGN BENCHING PRESSURES ARE ENCOUNTERED AT THE FOOTING AREAS INDICATED. UNDERCUTTING AND REPLACEMENT WITH SOIL WILL BE REQUIRED.

OTHER

TOP

OTHER

#9 91"

NOTE:
1. THESE DETAILS APPLY TO ALL OPENINGS WHERE REINF. IS INTERSECTED IN CAST-IN-PLACE CONCRETE WALLS OR SLABS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. THE AREA OF ADDITIONAL REINF. REQUIRED IN EACH FACE ON EACH SIDE OF THE OPENING SHALL BE A MINIMUM OF 50% OF THE AREA OF BARS CUT IN EACH FACE OF THE SUPPORTED WALL. THE SUPPLEMENTAL BARS MUST BE MATCHED TO ADJACENT FOUNDATION WALL.
3. REINFORCING THROUGH FOUNDATION WALLS SHAL MATCH ADJACENT FOUNDATION WALL REINFORCEMENT. WHEN ADJACENT FOUNDATION WALL DOES NOT EXIST, I.E. INTERIOR FOOTING, REQUIRE EACH FACE OF THE OPENING WALL TO MATCH FOUNDATION WALL REINFORCEMENT, AT A MINIMUM OF #5@10" O.C. EACH FACE VERTICALLY AND 2" MIN. HORIZONTALLY WITH THE FOUNDATION WALL. HOOK BAR ENDS WITH 90° ACI STD HOOKS.

NOTES:
1. DOWELS TO MATCH AND LAP 50% OF HORIZONTAL STEEL.
2. IN LIEU OF USING DOWELS 50% OF HORIZONTAL STEEL MAY EXTEND THRU AND LAP WITH ADJACENT FOUNDATION WALLS PROPERLY PROVIDED AS LAP. WHAT INDICATED HEREIN ARE REQUIRED FOR ALL SUPPORTED CONCRETE WALLS.
3. LAWS CONTINUOUS REINFORCEMENT WHERE CONCERTE WALLS OR FOOTING CONSTRUCTION JOINTS.
4. NOT CHARTED ON PLANS.

CONCRETE REINFORCING LAP & DEVELOPMENT LENGTH REQUIREMENTS

LAP LENGTH

1. REQUIRED LAPS
2. REQUIRED DEVELOPMENTS

CONCRETE WALL OR FOOTING CONSTRUCTION JOINT

NOTES:
1. معظم التفاصيل كميات التسليح المناسبة للأسلاك والأنابيب. نحن نوصى بتزويدها المطلوبة للأسلاك والأنابيب بكميات ملائمة. كن الcestos من الأدوات والأنابيب وفقًا للطلب.
1. Use this detail only if there are no construction or control joints in the slab at the corner plan.

2. Pad to be a minimum 6" larger than equipment on all sides.

3. Use in lieu of control joints at termination of pour. See foundation drawing for depth and location.

4. Minimum embedment into concrete of 3".

5. Coordinate location of pad and size with equipment manufacturer, refer to electrical, plumbing, and mechanical drawings.

6. Pad to be a minimum 6" larger than equipment on all sides.

7. Use in lieu of bent anchor bolt shown, provide epoxy anchor with a minimum embedment into concrete of 3".

8. Coordinate location of pad and size with equipment manufacturer, refer to electrical, plumbing, and mechanical drawings.

9. Pad to be a minimum 6" larger than equipment on all sides.

NOT FOR CONSTRUCTION
1. Placement of vertical conduit shall not be allowed in grouted cells.

2. Concrete masonry bond beam shall not be used to accommodate horizontal reinforcement.

3. Control joint reinforcement @ 16" o.c. vertical spacing.

4. CMU reinforcing lap & development length requirements.

5. Typical steel beam bearing on parallel CMU wall detail.

6. Typical steel beam bearing on perpendicular CM wall detail.

7. CMU lintel bearing detail.
E.O.S. +/- 3/8" PER PLAN
BENT PLATE OR ANGLE
1/2" DIA. (A307) BOLT @ 4'-0" O.C. IN SLOTTED HOLE PER PLAN

THEORETICAL CENTERLINE OF COLUMN OR BEAM SEE PLANS

METAL ROOF DECK
L5x5x5/16
L5x5x5/16

FOR ROOF DRAIN TURN VERTICAL LEGS DOWN
COPE VERTICAL LEG (TYP. 4 PLACES)

CENTERLINE OF JOIST OR BEAM SEE PLANS

NOTE:
1. DIM. OF OPENINGS VARY. SEE ARCHITECTURAL ROOF PLAN AND VARIOUS MECH. & KITCHEN PLANS, CONTRACTOR SHALL COORDINATE. FRAME NOT REQ'D FOR OPENINGS SMALLER THAN 12"x12". FOR OPENINGS BETWEEN 6" AND 12" REINFORCE OPENINGS WITH 16 GA. MATERIAL, FASTEN TO DECK @ 8" O.C.
2. WHERE FRAME SUPPORTS EQUIPMENT HEAVIER THAN 400 LBS. PROVIDE ADDITIONAL JOIST WEB REINFORCEMENT.

3/16 3
3/16 3
(TYP.)

MIN. " 3"

W-BEAM
STEEL JOIST
T/STEEL BEAM
STEEL JOIST

EL. SEE FRAMING PLANS

BASE PLATE
COLUMN CENTERLINE
LEVELING NUT & WASHER
HEAVY HEX NUT
ANCHOR RODS
ANCHOR ROD GRADE 36 MARK PER ASTM F1554 (MARK PRIOR TO SHIPMENT TO SITE)
1 1/2"
NON-SHRINK GROUT
1/2"x3"x3" PLATE WASHER WITH STANDARD HOLE W COLUMN (SIM. @ HSS COLUMN)
GRID 2"
GRID 2"
GRID 2"
GRID 2"
GRID 2"

STOP 1/2" FROM END
3/16
3/16

3/16 3
3/16 3
(TYP.)

MIN. ROD DIA.
3/4"
1"
1 1/4"
1 1/2"

B.P. HOLE DIA. (IN.)
1 5/16"
1 13/16"
2 1/16"
2 5/16"

PLATE WASHER
2"x2"x3/8"
3"x3"x3/8"
3"x3"x1/2"
3 1/2"x3 1/2"x1/2"

STANDARD HANGER AS DESIGNED BY PRECAST FABRICATOR

NOTE:
1. PROVIDE POUR STOP AS REQUIRED FOR COMPOSITE CONCRETE TOPPING.
2. CONTRACTOR SHALL COORDINATE OPENING, SIZES AND LOCATIONS REQUIRED BY MECHANICAL, ELECTRICAL, PLUMBING PLANS.
<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Manufacturer &amp; Catalog Number</th>
<th>Number of Lamps</th>
<th>Lamp Type &amp; Wattage</th>
<th>Voltage</th>
<th>Mounting</th>
<th>Mounting Height</th>
<th>Notes</th>
<th>Input Wattage</th>
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<tbody>
<tr>
<td>FLA-A</td>
<td>Pole Mounted LED Fixture</td>
<td>LED 120V 12W</td>
<td>1</td>
<td>LED</td>
<td>120</td>
<td>Pole</td>
<td>18'-0&quot;</td>
<td>4, 8</td>
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<tr>
<td>FLA-B</td>
<td>Pole Mounted LED Fixture</td>
<td>LED 120V 12W</td>
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<td>120</td>
<td>Pole</td>
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<td>4, 8</td>
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<tr>
<td>FLA-C</td>
<td>Pole Mounted LED Fixture [Maintenance Tray Yard]</td>
<td>LED 120V 12W</td>
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<td>LED 120V 12W</td>
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<td>FFA-B</td>
<td>Flat Bar Group Mounted LED Fixture</td>
<td>LED 120V 12W</td>
<td>2</td>
<td>LED</td>
<td>120</td>
<td>Equal</td>
<td>20'-0&quot;</td>
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<td>200</td>
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<td>Industrial LED Fixture</td>
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<td>120</td>
<td>Equal</td>
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<td>120</td>
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<td>FFA-D</td>
<td>Industrial LED Fixture</td>
<td>LED 120V 12W</td>
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<td>LED</td>
<td>120</td>
<td>Equal</td>
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<td>Equal</td>
<td>20'-0&quot;</td>
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<td>120</td>
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<td>Weatherproof LED Fixture</td>
<td>LED 120V 12W</td>
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NOTES:
1. ELECTRICAL SYMBOLS AND LEGENDS ARE FOR ELECTRICAL SYMBOLS, LIST, ABBREVIATIONS, AND GENERAL NOTES.
2. LOCATED ON CEMENTARY HAMMOND SOUTH SHOREpard Bridge.
3. LOCATED IN HAMMOND TRANS COMBAT WASH SHELTER.
4. COORDINATE WITH ARCHITECT FOR FINISH COLOR.
5. TWO (2) HEADS PER POLE MOUNTED ON 5'-0" HELMERING POLE WITH LENGTHENED SHAFT, SEE SHEET 4-005.
6. FOUR (4) HEADS FOR POLE MOUNTED ON 2'-0" HELMERING POLE WITH LENGTHENED DEVICE, SEE SHEET 4-005.
7. COORDINATE THE ANGLE OF APPLIQUE FIXTURE WITH CEMENTARY HAMMOND.
8. FIXTURE POLE SHALL BE CEMENTARY 902-33-05 10" SQUARE STEEL POLE WITH PREVIOUSLY APPROVED RAIN GUARD. POLE GUARD TO BE COORDINATED WITH ARCHITECT. FIXTURE PAVILION IS REQUIRED TO MATCH PREVIOUSLY COORDINATED IN REQUIREMENT.

NOT FOR CONSTRUCTION

CERTIFICATE OF COMPLIANCE

NORTH EASTERN INDIANA COMMUTER TRANSPORTATION DISTRICT
33 East Highway 32
Checkerton, Indiana 46304

DYER TO HAMMOND, INDIANA

WEST LAKE PROJECT Llc
32 East Highway 32
Checkerton, Indiana 46304

HDR

NICO

WEST LAKE CORRIDOR

LIGHTING FIXTURE SCHEDULE

Page 26 of 361
PROPOSED 24" STORM SEWER ALIGNMENT

PROPOSED STATION

WATER PUMP

PROPOSED STORM SEWER

PROPOSED 42" STORM

FENCE WITH GATE

PROPOSED SECURITY BUILDING

PREFABRICATED CONTROL PUMP STATION

PROPOSED STORM WATER SUBSTATION AREA

TRACTION POWER PROPOSED

HATCHES (TYP.)

PUMP REMOVAL FOR CONTINUATION

SOUTHEAST DRAINAGE SHEET SEE MUNSTER DYER PARKING

NOT FOR CONSTRUCTION
NOTES

1. ALL COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROPRIATE LOCATION ONLY.
2. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.
3. CCTV CAMERAS TO PROVIDE COVERAGE OF PARKING LOTS. FINAL QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS MUST RECEIVE CCTV COVERAGE. FINAL LOCATION OF EMERGENCY TELEPHONES AND CCTV CAMERAS SHALL BE COORDINATED WITH FINAL LANDSCAPE PLAN.
4. ALL EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.
5. THE DESIGN AND LOCATION OF SYSTEMS COMPONENTS INCLUDING CCTV CAMERAS, EMERGENCY TELEPHONES, TICKET VENDING MACHINES, REAL-TIME PASSENGER INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED CABLING, COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROPRIATE LOCATION ONLY.
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7. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.
NOTES

1. ALL COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

2. STATION COMMUNICATIONS CABINET, SYSTEMS SYMBOLS, AND ASSOCIATED EQUIPMENT ARE FOR ADDITIONAL DETAIL.

3. CCTV CAMERAS TO PROVIDE COVERAGE OF PARKING LOTS. FINAL QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN.

4. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS. WEST PARKING SYSTEMS PLAN, 41 OF 361

5. ALL EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.

6. DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND ELECTRICAL FINAL PLANS AND DRAWINGS FOR ADDITIONAL DETAIL.

COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED CONDUIT, ASSOCIATED WIRING, INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, REAL-TIME PASSENGER INFORMATION DISPLAYS, EMERGENCY TELEPHONES, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.
NOTES:
1. All communications / security / systems symbols provided in the legend are indicating approximate location only.
2. CCTV cameras to provide coverage of parking lots. Final quantity and location of parking lot CCTV cameras to be determined by final lighting design. Emergency telephones located in the parking lots must receive CCTV coverage. Final locations of emergency telephones and CCTV cameras shall all be coordinated with final landscape plan.
3. All emergency telephones shall be ADA compliant.
4. Prior to construction, refer to the communications and electrical final design plans and documents for equipment installation details.
5. The design and location of system components including CCTV cameras, emergency telephones, IC fever temperature monitoring, real-time passenger information displays, public address speakers, ambient noise sensors, communications cabinets, switches, associated antenna, associated cabling, and other required equipment are for reference only. Refer to final design plans for actual quantities and locations.
6. The design and location of systems components including CCTV cameras, emergency telephones, IC fever temperature monitoring, real-time passenger information displays, public address speakers, ambient noise sensors, communications cabinets, switches, associated antenna, associated cabling, and other required equipment are for reference only. Refer to final design plans for actual quantities and locations.
7. All emergency telephones shall be ADA compliant.
8. Parking lot CCTV cameras to be determined by final lighting design. Emergency telephones located in the parking lots must receive CCTV coverage. Final locations of emergency telephones and CCTV cameras shall all be coordinated with final landscape plan.
9. All emergency telephones shall be ADA compliant.
10. Prior to construction, refer to the communications and electrical final design plans and documents for equipment installation details.
11. The design and location of system components including CCTV cameras, emergency telephones, IC fever temperature monitoring, real-time passenger information displays, public address speakers, ambient noise sensors, communications cabinets, switches, associated antenna, associated cabling, and other required equipment are for reference only. Refer to final design plans for actual quantities and locations.

NOT FOR CONSTRUCTION
NOT FOR CONSTRUCTION

WEST STATION SYSTEMS PLAN

1. All communications/security systems symbols and provisions in the legend are indicating approximate location only.
2. See electrical and communications plans for additional details.
3. CCTV cameras to provide coverage of parking lots. Final quantity and location of parking lots CCTV cameras to be determined by final lighting design. Emergency telephones located in the parking lots must receive CCTV coverage. Final locations of emergency telephones and CCTV cameras shall be coordinated with final landscaping plan.
4. All emergency telephones shall be ADA compliant.
5. All communications/telephones, ticket vending machines, real-time passenger information displays, public address speakers, ambient noise sensors, communications cabinets, switches, associated wiring, associated cabling, and other required equipment are for reference only. Refer to final design plans for actual quantities and locations.
6. CCTV cameras to provide coverage of parking lots. Final quantity and location of CCTV cameras to be determined by final lightining design. Emergency telephones located in the parking lots must receive CCTV coverage. Final locations of emergency telephones and CCTV cameras shall be coordinated with final landscaping plans and documents for equipment installation details.

NOTE: Prior to construction, refer to the communications and electrical final design plans and documents for equipment installation details.

All CCTV cameras to be coordinated with final lighting design. Emergency telephones located in the parking lots must receive CCTV coverage. Final locations of emergency telephones and CCTV cameras shall be coordinated with final landscaping plans and documents for equipment installation details.

NOTES

3. Prior to construction, refer to the communications and electrical final design plans and documents for equipment installation details.
4. All emergency telephones shall be ADA compliant.
5. The design and location of systems components including CCTV cameras, emergency telephones, ticket vending machines, real-time passenger information displays, public address speakers, ambient noise sensors, communications cabinets, switches, associated wiring, associated cabling, and other required equipment are for reference only. Refer to final design plans for actual quantities and locations.

LEGEND

- Communications Hub
- Communications Cabinet
- CCTV Camera - Fixed Dome
- CCTV Camera - Fixed
- CCTV Camera - PTZ
- Station Communications Cabinet
- Ambient Noise Sensor
- Public Address Speaker
- Ticket Vending Machine
- Display (Single Sided)
- Real-Time Passenger Information Display (Dual Sided)
- Emergency Telephone (Pole Mount)
- Emergency Telephone (Wall Mount)

REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.
NOTES

1. ALL COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

2. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.

3. CCTV CAMERAS TO PROVIDE COVERAGE OF PARKING LOTS. FINAL QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS MUST RECEIVE CCTV COVERAGE. FINAL LOCATIONS OF EMERGENCY TELEPHONES AND CCTV CAMERAS SHALL BE CoORDINATED WITH FINAL LIGHTING PLAN.

4. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND ELECTRICAL FINAL DESIGN PLANS AND SPECIFICATIONS FOR EQUIPMENT INSTALLATION DETAILS.

5. THE DESIGN AND LOCATION OF SYSTEM COMPONENTS INCLUDING CCTV CAMERAS, EMERGENCY TELEPHONES, TICKET VENDING MACHINES, REAL-TIME PASSENGER INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED WIRES, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

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9. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.

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13. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.

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17. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.

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NOT FOR CONSTRUCTION

NOTE:
1. FOUNDATION SPACING SHOWN ON PLATFORM PLAN.

NOTE:
1. PROVIDE ELECTRAL HEATING MAT INTEGRAL IN PRECAST PLANKS.
2. STEEL COLUMN AND CANOPY NOT SHOWN FOR CLARITY.

TYPICAL PLATFORM FRAMING

1/2" = 1'-0"

TYPICAL PLATFORM SECTION

1/2" = 1'-0"
NOT FOR CONSTRUCTION

MUNSTER DYER CANOPY ROOF FRAMING PLAN

TYPICAL CANOPY FRAMING PLAN

TYPICAL CANOPY SECTION

TYPICAL BASEPLATE CONFIGURATION

TAPERED MEMBER SECTION

TYPICAL CANOPY PURLIN - BEAM DETAIL

NOTES:

1. STANDING SEAM METAL ROOF NOT SHOWN FOR CLARITY.

2. SEE PLATFORM PLAN FOR GRID SPACING.
NOTE:
1. SEE PLATFORM FRAMING PLAN FOR TYPICAL GRID SPACING.

PRECAST CONCRETE BEAM, TYP.

4 1/2" 22'-1" 4 1/2"

8'-11 1/2" 4 1/2"

NOTES:
1. STANDING SEAM METAL ROOF NOT SHOWN FOR CLARITY.
2. SEE PLATFORM FRAMING PLAN FOR TYPICAL GRID SPACING.

HSS 5X5 PURLIN, TYP.

HSS BUILT-UP TAPERED MEMBER, EACH SIDE
UNDERPASS WEST ACCESS FOUNDATION PLAN

1/8" = 1'-0"
1. PROVIDE RUBBED FINISH ON EXPOSED CONCRETE WALLS
2. REFER TO ARCHITECTURAL DRAWINGS FOR HANDRAILS AND GUARDRAILS

ENGINEERED FILL

CAST-IN-PLACE CONCRETE RETAINING WALL FOR UNDERPASS SLAB-ON-GRADE

APPROX. FINISH GRADE, TYP.

CONCRETE STAIRS

ENGINEERED FILL

11'-0" 11'-0"

MAT FOUNDATION

20'-0"

3'-0"

APPROX. FINISH GRADE

ENGINEERED FILL

CAST-IN-PLACE CONCRETE BEAM

RETAINING WALL (TYP)

APPROX. FINISH GRADE

ENGINEERED FILL

CONCRETE SLAB -ON-GRADE W/ 2" TRAP ROCK TOPPING

1/4" = 1'-0"

SECTION AT WEST BRIDGE ACCESS

1/4" = 1'-0"

TYPICAL JOIST BEARING DETAIL

TYPICAL DECK BEARING ROOF DETAIL

EAST UNDERPASS ACCESS SECTION

NOT FOR CONSTRUCTION
1. PROVIDE RUBBED FINISH ON EXPOSED CONCRETE WALLS
2. REFER TO ARCHITECTURAL DRAWINGS FOR HANDRAILS AND GUARDRAILS
## Cable and Conduit Schedule

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**Notes:**
1. See sheets 2 and 4 for electrical symbols, list, abbreviations, and general notes.
2. See inc schedule 44 conduits tonbsp;file
   for primary transformer intercon cable, cable
   cell, etc. to use.
3. conduit, pvc schedule 46.
4. conduit to be ncp.
5. conduit and cable enclosure to 12 feet long, 5"
   dia. stainless steel, catalog no.
6. 2 conduits are for future.
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**NOTES:**
- See sheets 1-16 for electrical symbol list, abbreviations, and general notes.
- Not for construction.

**Panelboard Schedules**

**Total Connected VA:** 0 VA

**Total Connected Amps:** 0 A

**1.25X Amps:** 0 A
NOTES:

1. ALL COMMUNICATION / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

2. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAILS.

3. CCTV CAMERAS TO PROVIDE COVERAGE OF PARKING LOTS. FINAL QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS MUST RECEIVE CCTV COVERAGE. FINAL LOCATIONS OF EMERGENCY TELEPHONES AND CCTV CAMERAS SHALL BE COORDINATED WITH FINAL LIGHTING PLAN.

4. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND SECURITY FINAL DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS.

5. THE DESIGN AND LOCATION OF SYSTEMS COMPONENTS INCLUDING CCTV CAMERAS, EMERGENCY TELEPHONES, PPTZ VENDING MACHINES, REAL-TIME PASSENGER INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED WIRING, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

6. SEE ELECTRICAL AND COMMUNICATIONS PLANS FOR ADDITIONAL DETAIL.

1. APPROXIMATE LOCATION ONLY.

2. EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.

3. ALL EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.

4. ALL COMMUNICATION / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

5. EMERGENCY TELEPHONES TO PROVIDE COVERAGE OF PARKING LOTS. FINAL QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS MUST RECEIVE CCTV COVERAGE. FINAL LOCATIONS OF EMERGENCY TELEPHONES AND CCTV CAMERAS SHALL BE COORDINATED WITH FINAL LIGHTING PLAN.

6. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND SECURITY FINAL DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS.

THE DESIGN AND LOCATION OF SYSTEMS COMPONENTS INCLUDING CCTV CAMERAS, EMERGENCY TELEPHONES, PPTZ VENDING MACHINES, REAL-TIME PASSENGER INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED WIRING, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.
NOTES

1. All communications / security / systems symbols provided in the legend are indicating approximate locations only.

2. See electrical and communications plans for additional detail.

3. CCTV cameras to provide coverage of parking lots. Final quantity and location of parking lot CCTV cameras to be determined by final lighting design. Final locations of emergency telephones and CCTV cameras to be coordinated with final landscaping plan.

4. All emergency telephones shall be ADA compliant.

5. Prior to construction, refer to the communications and electrical final design plans and documents for equipment installation details.

6. The design and location of systems components including CCTV cameras, emergency telephones, ticket vending machines, real-time passenger information displays, public address speakers, ambient noise sensors, communication cabinets, switches, associated wiring, and conduit, provided in this plan for reference only. Refer to final design plans for actual quantities and locations.

1. STATION COMMUNICATIONS HUB

2. STATION COMMUNICATIONS CENTER

3. CCTV CAMERA - FIXED

4. CCTV CAMERA - FIXED DOME

5. CCTV CAMERA - PTZ

6. EMERGENCY TELEPHONE

7. TICKET VENDING MACHINE

8. REAL-TIME PASSENGER INFORMATION DISPLAY (DUAL SIDED)

9. REAL-TIME PASSENGER INFORMATION DISPLAY (SINGLE SIDED)

10. AMBIENT NOISE SENSOR

11. PUBLIC ADDRESS SPEAKER

12. STATION COMMUNICATIONS HUB

LEGEND
NOT FOR CONSTRUCTION

PLAT FORM SYST EMS PLAN 1
STATION

DYER TO HAMMOND, INDIANA

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NOTES

1. ALL COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

2. ALL COMMUNICATIONS SYMBOLS SHOWN ON THIS SHEET ARE FOR ADDITIONAL EXTRAS.

3. CCTV CAMERAS PROVIDE COVERAGE OF PARKING LOTS. QUANTITY AND LOCATION OF PARKING LOT CCTV CAMERAS TO BE DETERMINED BY FINAL LIGHTING DESIGN. EMERGENCY TELEPHONES LOCATED IN THE PARKING LOTS MUST RECEIVE CCTV COVERAGE. FINAL LOCATIONS OF EMERGENCY TELEPHONES AND CCTV CAMERAS SHALL BE COORDINATED WITH FINAL LIGHTING PLAN.

4. ALL EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.

5. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND ELECTRICAL FINAL DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS.

6. THE DESIGN AND LOCATION OF SYSTEMS COMPONENTS INCLUDING CCTV CAMERAS, EMERGENCY TELEPHONES, TICKET VENDING MACHINES, REAL-TIME PASSENGER INFORMATION DISPLAYS, PUBLIC ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED WIRING, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

ADDRESS SPEAKERS, AMBIENT NOISE SENSORS, COMMUNICATIONS CABINETS, SWITCHES, ASSOCIATED WIRING, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

CONDUIT, ASSOCIATED WIRING, ASSOCIATED CABLING, AND OTHER REQUIRED EQUIPMENT ARE FOR REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.

1. ALL COMMUNICATIONS / SECURITY / SYSTEMS SYMBOLS PROVIDED IN THE LEGEND ARE INDICATING APPROXIMATE LOCATION ONLY.

2. ALL COMMUNICATIONS SYMBOLS SHOWN ON THIS SHEET ARE FOR ADDITIONAL EXTRAS.

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4. ALL EMERGENCY TELEPHONES SHALL BE ADA COMPLIANT.

5. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND ELECTRICAL FINAL DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS.

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REFERENCE ONLY. REFER TO FINAL DESIGN PLANS FOR ACTUAL QUANTITIES AND LOCATIONS.
NOTES
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5. PRIOR TO CONSTRUCTION, REFER TO THE COMMUNICATIONS AND ELECTRICAL FINAL DESIGN PLANS AND DOCUMENTS FOR EQUIPMENT INSTALLATION DETAILS.
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NOT FOR CONSTRUCTION

PAGE 96 OF 361
1. FOUNDATION SPACING SHOWN ON PLATFORM PLAN.
2. PROVIDE ELECTRICAL HEATING MAT IN PRECAST PLANKS.
3. STEEL COLUMN AND CANOPY NOT SHOWN FOR CLARITY.
4. 1% SLOPE (MIN.)
5. 8" PRECAST PLANK W/ 2" TRAP ROCK TOPPING

NOTES:

1. EMBED PLATE FOR GUARDRAIL CONNECTION
2. PRECAST CONCRETE BEAM, TYP.
3. FINISH GRADE

REFERENCES:

1. 1'-0" 1'-2" 5'-10" 2'-6"
2. 1'-0" 9'-6" 5'-6"
3. 1'-0" 1'-10" 5'-10" 6" 2'-0" 4'-3"
NOT FOR CONSTRUCTION

MUNSTER RIDGE CANOPY ROOF
FRAMING PLAN AND DETAILS

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

DYER TO HAMMOND, INDIANA

33 East Highway 12
 Chesterton, Indiana 46304

Northern Indiana Commuter Transportation District

NOTES:

1. STANDING SEAM METAL ROOF NOT SHOWN FOR CLARITY.
2. SEE PLATFORM PLAN FOR GRID SPACING.
1. SEE PLATFORM PLAN FOR GRID SPACING.

NOTE:

TYPICAL WARMING HOUSE FRAMING PLAN

TYPICAL WARMING HOUSE ROOF FRAMING PLAN

MUNSTER RIDGE WARMING HOUSE PLAN
NOTES:
1. SEE SHEETS R-901 AND R-902 FOR ELECTRICAL SYMBOLS, LEGEND, AND GENERAL NOTES.
2. SEE SHEET R-302 FOR CABLE AND CONDUIT SCHEDULE.
3. SEE SHEET R-601 FOR LIGHTING FUTURE SCHEDULE.

PARTIAL PLATFORM LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NOTES:
1. See Sheets 1A-11 and 1A-12 for Electrical Symbol List, Abbreviations, and General Notes.
2. See Sheet 2A-112 for Cable and Conduit Schedule.
4. Plans on this sheet show one warming hut lighting and electric plan. Refer to Sheet 3A for other warming huts at this station.
5. Ceiling mounted motion sensor.
6. Air operated heater.
7. Switch disconnect switches for infrared heaters.

TYPICAL WARMING HUT LIGHTING PLAN

TYPICAL WARMING HUT POWER PLAN

SCALE: 1/4" = 1'-0"
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<tr>
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**Panel: LP-1**

**Main: 150A MCB**

**Mounting:**

**Enclosure:** NEMA 3R BUS 250A WITH GROUND BUS

**NOTES:**

- See sheets 29A and 29D for electrical symbol list, abbreviations, and general notes.