



CITY OF WESTFIELD, IN
Advisory Planning Commission Meeting Agenda_03_19_2018

Monday, March 19, 2018 at 07:00 PM

BOARD OR COMMISSION: Advisory Plan Commission (APC)

MEETING DATE: Monday, March 19, 2018 at 07:00 PM

MEETING PLACE: Westfield City Hall, 130 Penn Street, Westfield, IN 46074

THE FOLLOWING AGENDA IS SUBJECT TO CHANGE AT THE DISCRETION OF THE WESTFIELD-WASHINGTON TOWNSHIP ADVISORY PLAN COMMISSION

OPENING OF MEETING

Note the Presence of a Quorum

Approval of Minutes - March 5, 2018

Documents: [APC Minutes - March 5, 2018](#)

Review APC Rules & Procedures

CONSENT AGENDA ITEMS

1802-DDP-03

Westfield Middle School Addition

345 West Hoover Street

Westfield Washington Schools by Cripe Engineering requests Detailed Development Plan review of a 34,695 square foot +/- building addition on approximately 6.5 acres +/- in the SF3: Single-Family Medium Density District.

(Planner: Kevin Todd - KTodd@westfield.in.gov)

Documents: [Exhibit 1: Staff Report](#) | [Exhibit 2: Location Map](#) | [Exhibit 3: Development Plan](#) | [Exhibit 4: Building Elevations](#) | [Exhibit 5: Landscape Plan](#) | [Exhibit 6: Lighting Plan](#)

1802-DDP-04

Westfield Intermediate School Addition

326 West Main Street

Westfield Washington Schools by Cripe Engineering requests Detailed Development Plan review of a 36,348 square foot +/- building addition on approximately 13 acres +/-

in the SF3: Single-Family Medium Density District.

(Planner: Kevin Todd - KTodd@westfield.in.gov)

Documents: [Exhibit 1: Staff Report](#) | [Exhibit 2: Location Map](#) | [Exhibit 3: Development Plan](#) | [Exhibit 4: Building Elevations](#) | [Exhibit 5: Landscaping Plan](#) | [Exhibit 6: Lighting Plan](#)

1803-DDP-08

Laverna Lodge Parking Addition

1550 East 156th Street

Gilliatte General Contractors by CrossRoad Engineers, P.C. requests Detailed Development Plan review of a 9,600 SF parking lot addition on 3.77 acres +/- in the AG-SF1: Agriculture / Single-Family Rural District.

(Planner: Caleb Ernest - CErnest@westfield.in.gov)

Documents: [Exhibit 1: Staff Report](#) | [Exhibit 2: Location Map](#) | [Exhibit 3: Site Plan](#)

1803-DDP-09

Texas Roadhouse

14758 Greyhound Plaza

Texas Roadhouse Holdings, LLC by GreenbergFarrow requests Detailed Development Plan review of a 6,994 square-foot restaurant on approximately 0.91 acre +/- in the GB: General Business District.

(Planner: Matt Pleasant - MPleasant@westfield.in.gov)

Documents: [Exhibit 1: Staff Report](#) | [Exhibit 2: Location Map](#) | [Exhibit 3: Site Plan](#) | [Exhibit 4: Elevations](#) | [Exhibit 5: Sign Plan](#)

ITEMS OF BUSINESS

1803-ODP-04 & 1803-SPP-04

Springmill Villas (formerly known as Maple Knoll East)

East of Spring Mill Road and South of State Road 32

Maple Knoll Developer, LLC by Nelson & Frankenberger, LLC requests Primary Plat and Overall Development Plan review of 88 lots on 38.09 acres +/- in the Maple Knoll PUD District.

(Planner: Caleb Ernest - CErnest@westfield.in.gov)

Documents: [Exhibit 1: Staff Report](#) | [Exhibit 2: Location Map](#) | [Exhibit 3: Maple Knoll PUD District Map](#) | [Exhibit 4: Overall Development Plan and Primary Plat](#) | [Exhibit 5: Site Plan](#) | [Exhibit 6: Public Comment](#)

CONTINUED ITEMS

1801-PUD-01 [CONTINUED]

Davis PUD

West side of Ditch Road between 156th Street and 161st Street

Estridge Homes by 11th Street Development requests a change of zoning of 80 acres +/- from the AG-SF1: Agriculture / Single-Family Rural District to the Davis PUD District.

(Planner: Pam Howard - PHoward@westfield.in.gov)

1803-ODP-03 & 1803-SPP-03 [CONTINUED]

Springmill Trails

Northwest Corner of SR 32 and Ditch Road

Weihe Engineers requests Primary Plat and Overall Development Plan review of 20 Blocks on 155 acres +/- in the Springmill Trails PUD District.

(Planner: Pam Howard - PHoward@westfield.in.gov)

REPORTS/COMMENTS

Advisory Plan Commission Members

City Council Liaison

Board of Zoning Appeals Liaison

Economic and Community Development Department

ADJOURNMENT



WESTFIELD-WASHINGTON
ADVISORY PLAN COMMISSION

March 19, 2018
1803-SPP-04 & 1803-ODP-04

Petition Number: 1803-SPP-04 & 1803-ODP-04

Project Name: Springmill Villas (Formerly Maple Knoll East) (the “Property”)

Subject Site Address: East of Spring Mill Road and South of State Road 32

Petitioner: Maple Knoll Developer, LLC

Representative: Nelson & Frankenberger, LLC

Request: Overall Development Plan & Primary Plat review of 88 Multi-Family attached units on 38.09 acres +/- in the Maple Knoll Planned Unit Development (PUD) District.

Current Zoning: Maple Knoll PUD District

Current Land Use: Vacant

Approximate Acreage: 38.09 +/-

Property History: Maple Knoll PUD, Ordinance 04-02, Maple Knoll PUD Amendment, Ordinance 05-22 and Maple Knoll PUD Amendment, Ordinance 14-08

Exhibits:

1. Staff Report
2. Location Map
3. Maple Knoll PUD District Map
4. Primary Plat
5. Site Plan
6. Public Comment

Staff Reviewer: Caleb Ernest, Associate Planner

PROCEDURAL

Approval of an Overall Development Plan and Primary Plat must be granted if the submitted plans demonstrate compliance with the terms of the underlying zoning district, subdivision control ordinance and/or applicable PUD District Ordinance, any variances associated with the site, and any commitments associated with the site.

The petition was reviewed by the Technical Advisory Committee at its February 20, 2018, meeting. This petition has received a public hearing at the Plan Commission’s March 5, 2018, meeting.



PROJECT OVERVIEW

Location: The Property encompasses approximately 38.09 acres +/- and is east of Spring Mill Road and south of State Road 32 (see **Exhibit 2**). The Property is currently zoned Maple Knoll PUD and is located in the Mixed Use District (see **Exhibit 3**). Adjacent properties to the north are zoned the Maple Knoll PUD District. Adjacent properties to the south are zoned SFA: Single-Family Attached District. Adjacent properties to the east are zoned SF3: Single-Family Medium Density District and to the west are zoned the Maple Knoll PUD District.

PRIMARY PLAT STANDARDS (Article 10.12(J) of UDO)

The plans comply.

- 1) Proposed name of subdivision.
- 2) Names and addresses of the owner, owners, land surveyor or land planner.
- 3) Title, scale, north arrow and date.
- 4) Streets on and adjoining the site of the proposed subdivision, showing the names (which shall not duplicate other names of streets in the community, unless extensions of such streets) and including roadway widths, approximate gradients, types and widths of pavement, curbs, sidewalks, cross-walks, tree plantings and other pertinent data.
- 5) Easements (locations, widths and purposes). (Article 8.3)
- 6) Statement concerning the location and approximate size or capacity of utilities to be installed.
- 7) Layout of Lots (showing dimensions, numbers and square footage). (Article 4.5)
- 8) Parcels of land proposed to be dedicated or reserved for schools, parks, playgrounds or other public, semi-public or community purposes.
- 9) Contours at vertical intervals of two (2) feet if the general slope of the site is less than ten percent (10%) and at vertical intervals of five (5) feet if the general slope is greater than ten percent (10%).
- 10) Tract boundary lines showing dimensions, bearings, angles, and references to section, township and range lines or corners.
- 11) Building setback lines.
- 12) Legend and notes.



- 13) Drawing indicating the proposed method of drainage for storm sewers and other surface water drainage.
- 14) Other features or conditions which would affect the subdivision favorable or adversely.
- 15) A National Cooperative Soil Survey Map showing the soil limitations based upon the intended usage of the development land.
- 16) A statement from County departments, State highway departments, or the Public Works Department concerning rights-of-way, road improvements, roadside improvements, roadside drainage, entrances, culvert pipes, and other specifications deemed necessary.
- 17) If private sewage systems, then a statement from the County Health Officer whether private septic system can be used on the property.
- 18) If legal drain is involved, then a statement from the County Drainage Board or County Surveyor's Office concerning easements, right-of-way, permits, etc.
- 19) If floodplain is involved, then a statement from the Indiana Department of Natural Resources, Division of Water, concerning construction in floodway, including floodplain high water marks, etc.

OVERALL DEVELOPMENT PLAN (Article 10.7 of the UDO)

The plans comply.

- 20) Title, scale, north arrow and date.
- 21) Proposed name of the development.
- 22) Area map insert showing the general location of the site referenced to Streets, section lines and alternative transportation plan system, as well as the Zoning District and use of adjacent property.
- 23) Address and legal description of the property.
- 24) Boundary lines of the property including all dimensions.
- 25) Location, name, centerline and width of all Streets, Private Streets, Alleys, access easements and alternative transportation plan system improvements that are existing or proposed to be located within or adjacent to the property.
- 26) Location, centerline and width (at the Lot Line) measurements of any proposed or existing Driveways within two hundred (200) feet of the property, and any connection to an Alley must be indicated.



- 27) Location and dimensions of primary vehicular ways in and around the proposed development, including depictions of all travel lanes, turning movements, vehicle storage areas and tapers.
- 28) All proposed Street and Driveway improvements, both on and offsite, including measurement of curb radius and/or taper.
- 29) Location and dimensions of existing and proposed sidewalks, pathways, trails or other alternate transportation plan improvements.
- 30) Layout, number, dimension and area (in square feet and acres) of all Lots and Outlots with Building Setback Lines.
- 31) Location and dimensions of all existing structures and paved areas.
- 32) Location and dimensions of all proposed structures and paved areas (indicated by cross-hatching).
- 33) Location of all Floodplain areas within the boundaries of the property.
- 34) Names of legal ditches and streams on or adjacent to the site.
- 35) Location and feasibility statement of all existing and proposed utility facilities and easements, including, but not limited to: sanitary sewer, water, storm water management, electric, gas, telephone and cable.
- 36) Identify buildings proposed for demolition.
- 37) Areas of the property reserved for Development Amenities, Open Space and other similar uses.
- 38) Use of each Lot and/or building by labeling, including approximate density or size of proposed uses and buildings (e.g., number of parking spaces, Dwelling Units, Gross Floor Area, Living Area).

MAPLE KNOLL PUD STANDARDS (Maple Knoll PUD and Ordinance 04-02)

The plans comply.

- 39) **SECTION 10 – Size and Dimensions of Districts:** The size, dimensions, and acreage of each of the Districts may be increased or decreased up to 15%; provided, however, that the maximum number of residences within each District shall be as follows:
 - a) Within the Mixed Use Districts, the total number of residences may not exceed 733.
 - b) The total number of residences within all of the Real Estate shall not exceed 1,800.



40) SECTION 11 – PERMITTED USES

41) SECTION 12 – DEVELOPMENT AND ARCHITECTURAL STANDARDS: The development and architectural standards applicable to each of the Districts are as follows:

a) Mixed Use District:

i) Lots:

(1) All lots shall have frontage along a Public Street or a Private Street and may be accessed from the front, side, or rear yard.

(2) Minimum Lot Width at building line: 20 Feet

(3) Minimum Lot Width at Street: 20 Feet

(4) Minimum Lot Depth: 60 Feet

(5) Minimum Lot Area: 1,000 Square Feet

(6) Front Setback: 0 – 80 Feet

(7) Minimum Side Setback: 0 Feet; provided, however, that (i) minimum separation between Buildings shall be ten (10) Feet and (ii) portions of any Building may be owned by different owners either in fee simple or under Indiana law governing condominiums.

(8) Minimum Rear Setback: 0 Feet

(9) No building elevation shall be closer than thirty (30) feet to Spring Mill Road; provided, however, that any Building located upon that segment of the Mixed Use District abutting the Pine Ridge/Quail Ridge residential subdivisions shall be set back at least forty (40) feet from the boundary line of the Mixed Use District.

42) SECTION 13 – LANDSCAPING: Attached hereto and incorporated herein by reference as Exhibit 17 are landscape standards (the “Landscape Standards”) included in the Zoning Ordinance in force at the time of the enactment of this Maple Knoll PUD. Except as modified below in this Section 13, the Landscape Standards shall apply to the Real Estate.

a) Shrubs are not required to be planted within woodlands located within buffer yards.

b) Trees which are in good condition and possessing a caliper of greater than 3” will be preserved along the fence row on the southern boundary of that portion of the Mixed-Use District located west of Spring Mill Road.



- c) At the Developer's discretion, evergreen trees may be substituted in lieu of evergreen shrubbery on a 1:3 basis (tree:shrub).
 - d) With respect to any wooded area greater than three (3) acres in size, any required tree inventory may be done on a sampling basis, by a certified arborist, based upon a representative sample of such woodland which representative sample is approved by the Department and is at least twenty percent (20%) of the size of the subject woodland.
- 43) **SECTION 14 – SIGNAGE:** Attached hereto and incorporated herein by reference as Exhibit 18 are signage standards (the "Signage Standards") which replace and supersede any signage provisions and/or standards set forth in the Zoning Ordinance.
- Comment: Will be reviewed when Sign Permit application is submitted.**
- 44) **SECTION 15 – LIGHTING:** Attached hereto and incorporated herein by reference as Exhibit 19 are lighting standards (the "Lighting Standards") which replace and supersede any signage provisions and/or standards set forth in the Zoning Ordinance.
- 45) **SECTION 16 – PARKING:** Attached hereto and incorporated herein by reference as Exhibit 20 are parking standards (the "Parking Standards") which replace and supersede any signage provisions and/or standards set forth in the Zoning Ordinance.
- 46) **SECTION 17 – STREET STANDARDS:** Attached hereto and incorporated herein by reference as Exhibit 21 are Street Standards (the "Street Standards") which supplement Street Standards contained in the Zoning Ordinance.
- 47) **SECTION 18 – OPEN SPACE/TRAILS:** The total Open Space, for the entirety of the Real Estate, shall be greater than or equal to 100 acres. Lakes, ponds, and water retention areas may not constitute more than twenty (20) percent of all of the Open Space for the entirety of the Real Estate. At a location within the Real Estate selected by Developer, there shall be one (1) thirty (30) acre area of Open Space. The Open Space within the Mixed Use District shall be greater than or equal to 10% of the area of the Mixed Use District.
- a) The Developer shall install a trail system internal to the Real Estate, providing interconnectivity to parks and school sites. The location and configuration of such internal trail system shall be determined by the Developer, in the Developer's sole discretion.

DISTRICT STANDARDS:

The plans comply.

- 48) Minimum Frontage Required on Street of Primary Access 660 Feet



DEVELOPMENT PLAN REVIEW (Article 10.7(E) of the UDO):

The plans comply.

- 49) Compliance with all applicable development and design standards of the Zoning District in which the real estate is located.
- 50) Compliance with all applicable provisions of any Overlay District in which the real estate is located.
- 51) Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
 - a) The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
 - b) The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
 - c) The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
- 52) The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

DEVELOPMENT STANDARDS (Chapter 6 of UDO)

The plans comply.

- 53) Accessory Use and Building Standards (Article 6.1)
- 54) Architectural Standards (Article 6.3)
- 55) Building Standards (Article 6.4)
 - a) Single-family Residential Uses: In no case shall there be more than one (1) Principal Building used for residential purposes, and its Accessory Buildings, located on one (1) Lot, except as otherwise permitted herein.
 - b) Multi-family Residential Uses: More than one (1) Principal Building used for residential purposes, and its Accessory Buildings, shall be permitted on a Lot in a Multi-family District.



- 56) Fence Standards (Article 6.5)
- 57) Height Standards (Article 6.6)
- 58) Landscaping Standards (Article 6.8)
- 59) Lighting Standards (Article 6.9)
- 60) Lot Standards (Article 6.10)
- 61) Outside Storage and Display (Article 6.12)
- 62) Parking and Loading Standards (Article 6.14)
- 63) Performance Standards (Article 6.15)
- 64) Setback Standards (Article 6.16)
- 65) Sign Standards (Article 6.17)
- 66) Vision Clearance Standards (Article 6.19)
 - a) Vision Clearance: No Sign, fence, wall, landscaping, Public Utility Installation or other Improvement which obstructs sight lines between three (3) and nine (9) feet above a Street shall be permitted on a Corner Lot, unless otherwise approved in writing by the Public Works Department, within the triangular area formed by the Right-of-way line and a line connecting points:
 - i) Seventy-five (75) feet from intersections of Expressways or Arterials.

DESIGN STANDARDS (Chapter 8 of UDO)

The plans comply.

- 67) Block Standards (Article 8.1)
- 68) Easement Standards (Article 8.3)
- 69) Monument and Marker Standards (Article 8.5)

Comment: Will be reviewed on Secondary Plat.

- 70) Open Space and Amenity Standards (Article 8.6)



- 71) Pedestrian Network Standards (Article 8.7)
 - 72) Storm Water Standards (Article 8.8)
 - 73) Street and Right-of-Way Standards (Article 8.9)
 - 74) Street Light Standards (Article 8.10)
 - 75) Street Sign Standards (Article 8.11)
 - 76) Surety Standards (Article 8.12)
 - 77) Utility Standards (Article 8.13)
-

DEPARTMENT COMMENTS

- 1) **Action: 1803-SPP-04 (Primary Plat) and 1803-ODP-04 (Overall Development Plan) comply with the UDO. The Department recommends approving the petition with the following conditions:**
 - A. All necessary approvals be obtained from the Westfield Public Works Department and the Hamilton County Surveyor's Office prior to the issuance of an improvement location permit.
- 2) If any Plan Commission member has questions prior to the public hearing, then please contact Caleb Ernest at 317-519-8630 or cernest@westfield.in.gov.



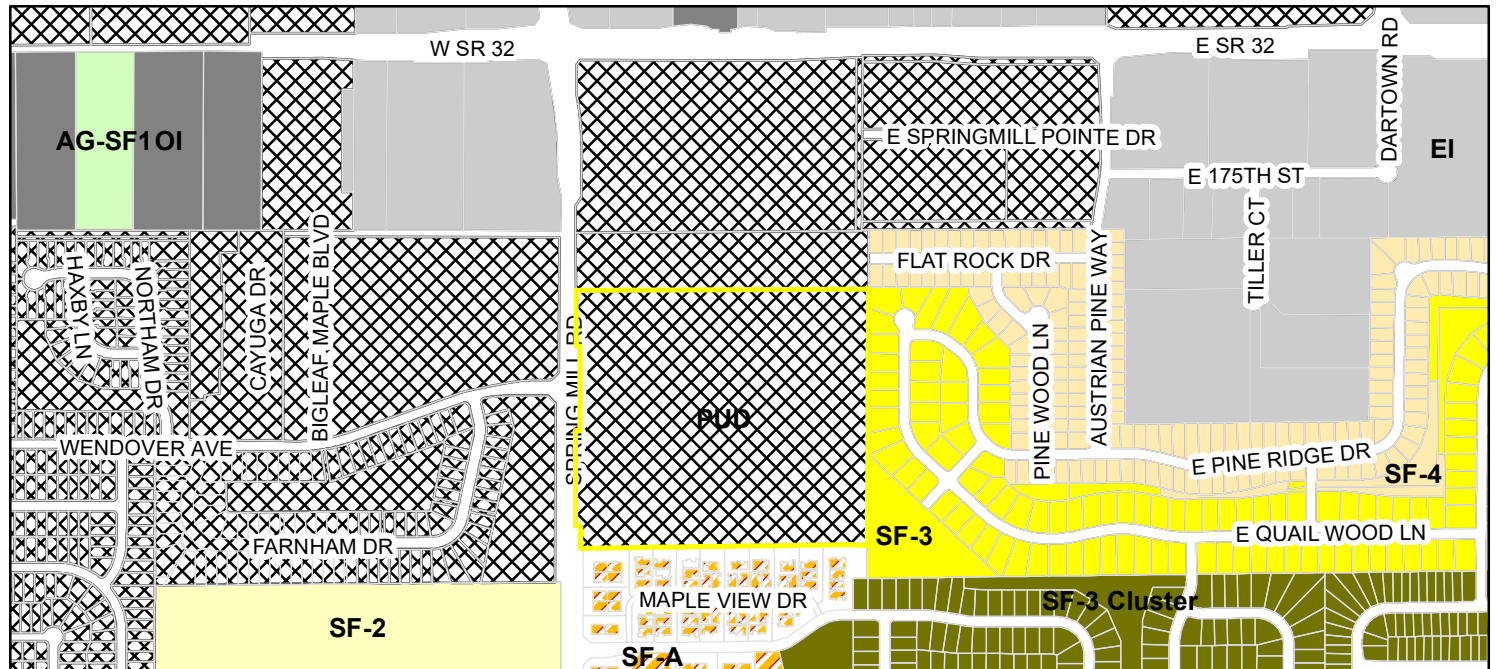
Property Location Map
Maple Knoll East
Overall Development Plan & Primary Plat
1803-ODP-04 & 1803-SPP-04



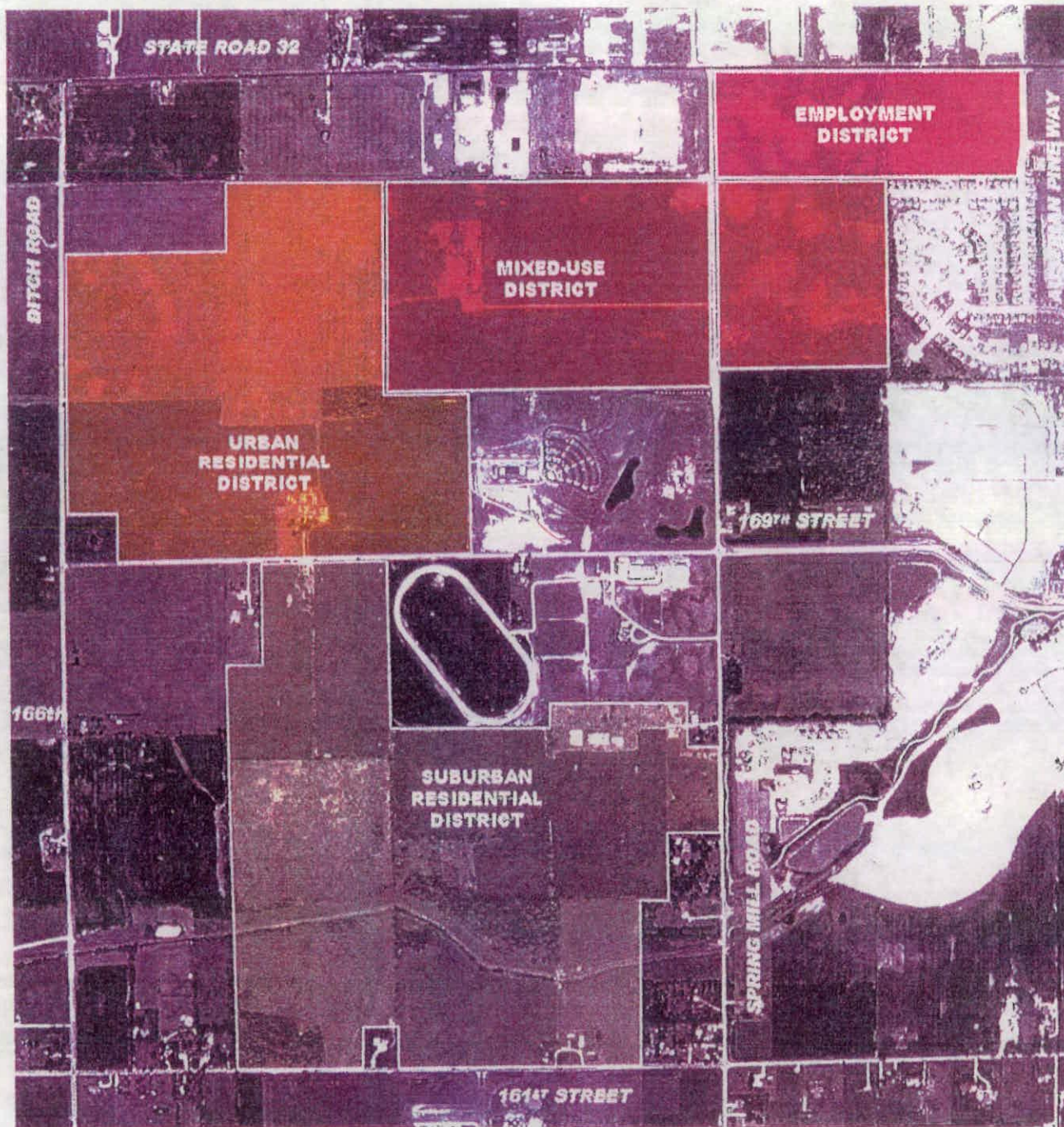
Aerial Location Map



Zoning Map



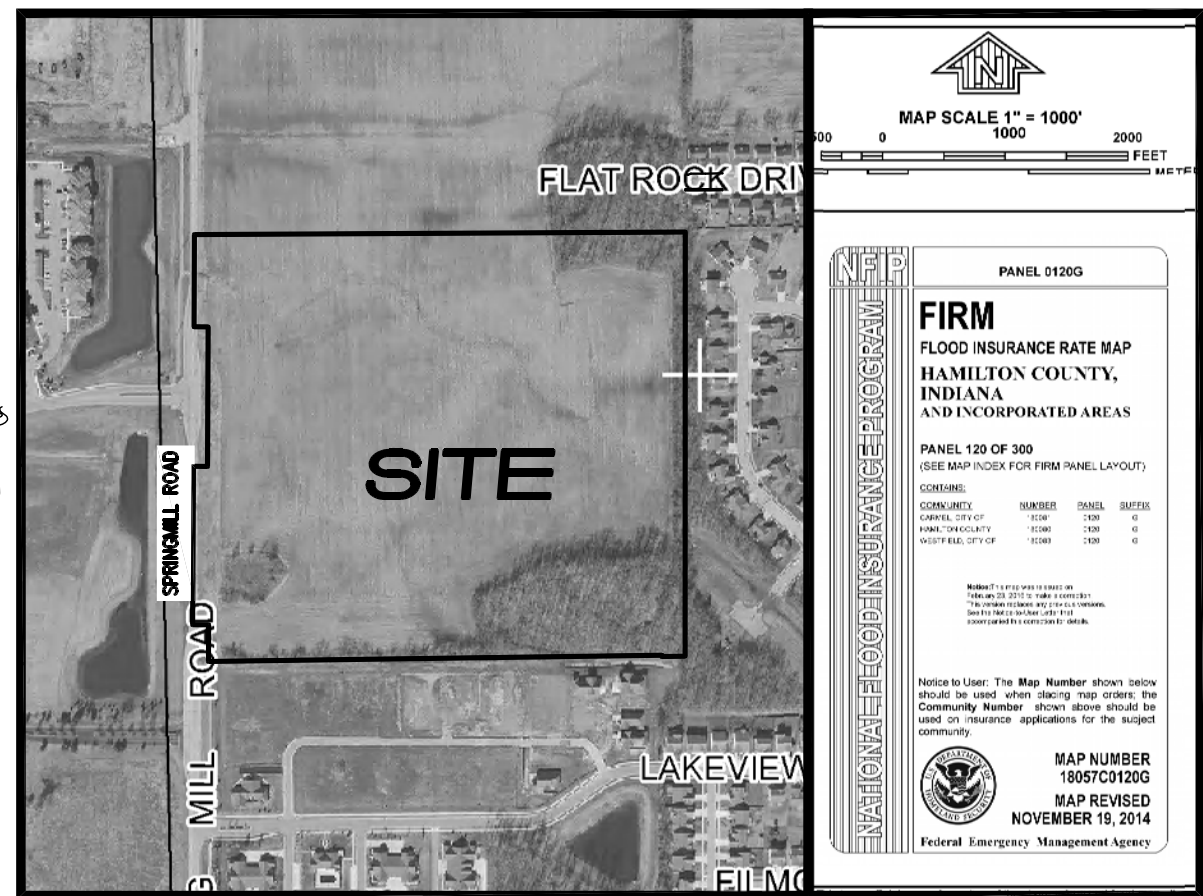
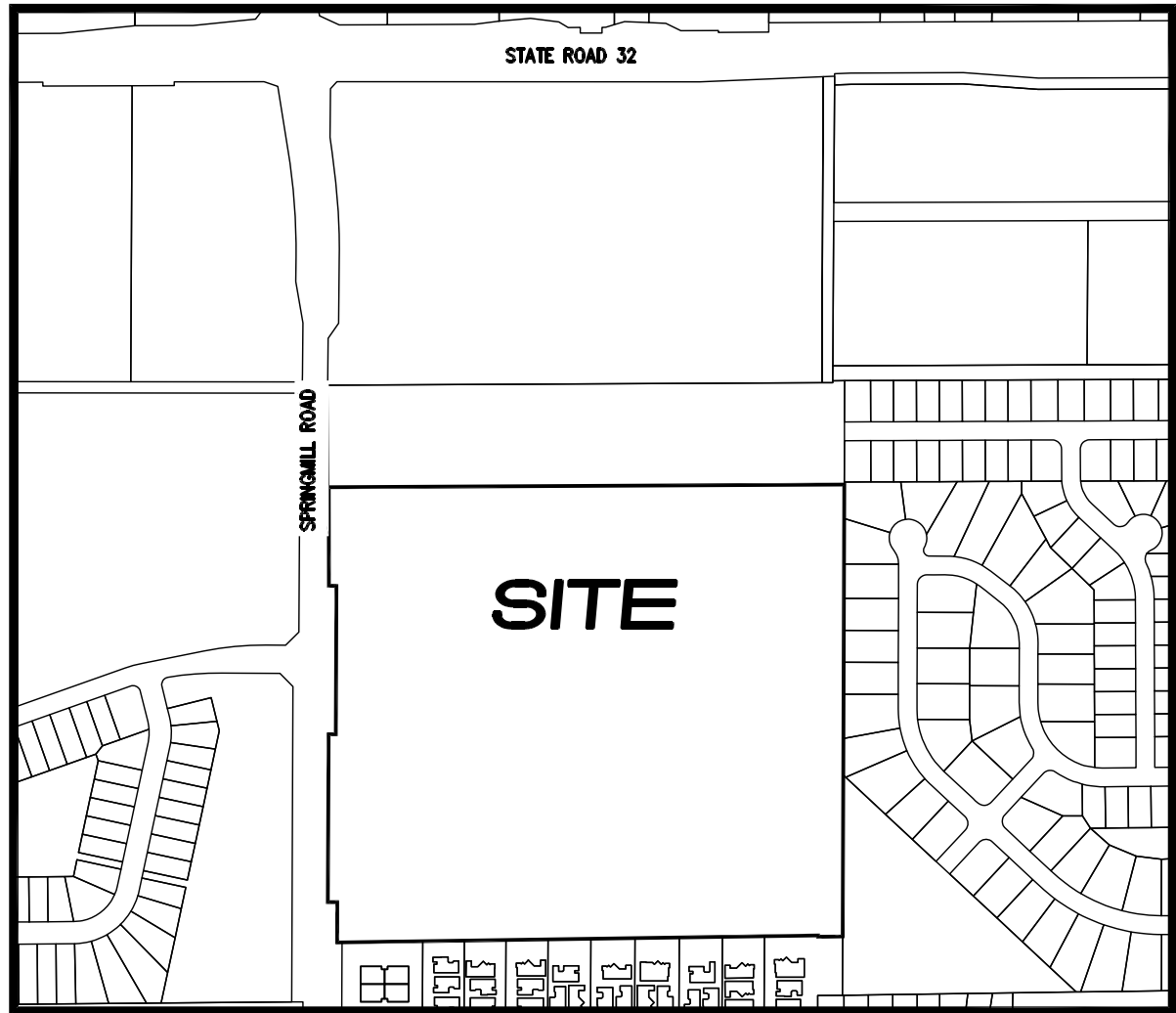
Parcel	PUD (Planned Unit Development)
Zoning - All	SF-2 (Single Family - 2)
Zoning	SF-3 (Single Family - 3)
AG-SF1 (Agriculture - Single Family - 1)	SF-3 Cluster
EI (Enclosed Industrial)	SF-4 (Single Family - 4)
OI (Open Industrial)	SF-A (Single Family - Attached)



THIS INSTRUMENT PREPARED BY:
DENNIS D. OLMSTEAD
STOEPPELWERTH AND ASSOCIATES INC.
7965 EAST 106TH STREET
FISHERS, INDIANA 46038
PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
MAPLE KNOLL DEVELOPER, LLC (OWNER)
9757 WESTPOINT DRIVE, SUITE 500
INDIANAPOLIS, INDIANA 46256
CONTACT: PAUL RIOUX
PHONE: (317) 863-2053

PRIMARY PLAT / DEVELOPMENT PLAN for SPRINGMILL VILLAS WESTFIELD, INDIANA MAPLE KNOLL PUD



FLOOD STATEMENT
THIS SITE DOES NOT LIE WITHIN A ZONE
PER FIRM 18057C0120G DATED
NOVEMBER 19, 2014

INDEX

SHT.	DESCRIPTION
C001	COVER SHEET
C100-C103	PRIMARY PLAT / DEVELOPMENT PLAN

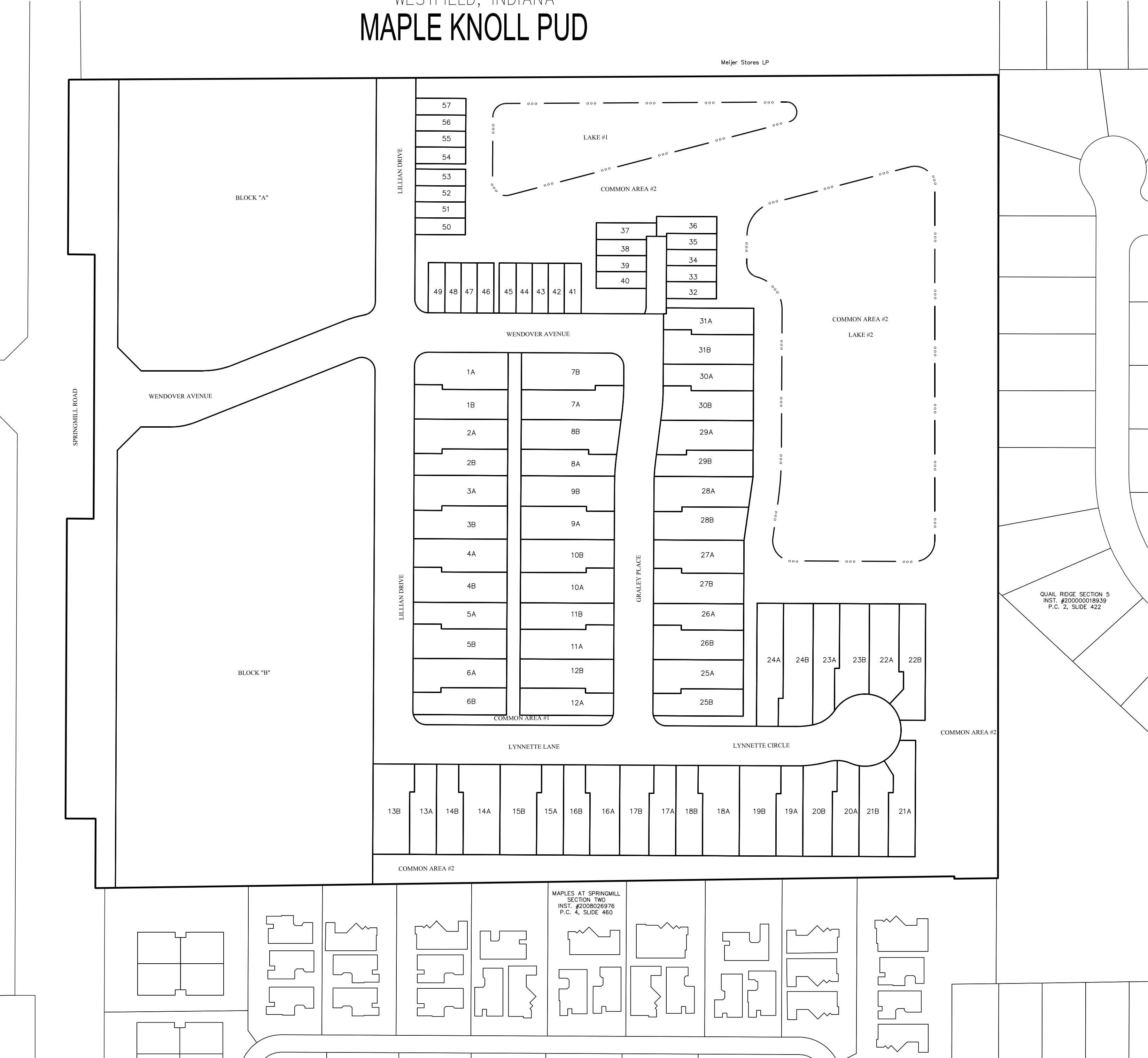
REVISIONS

SHT.	DESCRIPTION
ALL	REV. PER TAC COMMENTS 3-6-18

A part of the Northwest Quarter of Section 2, Township 18 North, Range 3 East, Washington Township, Hamilton County, Indiana, more particularly described as follows:

Commencing at the Northwest corner of said Quarter Section; thence South 00 degrees 14 minutes 55 seconds West 1,147.09 feet along the West line of said Quarter Section to the POINT OF BEGINNING of this description; thence North 89 degrees 27 minutes 17 seconds East parallel with the North line of said Quarter Section 1390.20 feet to the Southwest corner of Pine Ridge, Section Five, recorded as Instrument Number 9921163 in Plat Cabinet 2, Slide 247 in the Office of the Recorder, Hamilton County, Indiana; thence South 00 degrees 02 minutes 02 seconds West 1,201.33 feet along the West line of Quail Ridge, Section Five, recorded as Instrument Number 2000-18939 in Plat Cabinet 2, Slide 422 in said Recorder's Office, and Quail Ridge, Section Four, recorded as Instrument Number 9921162 in Plat Cabinet 2, Slide 246 in said Recorder's Office to a point on a line which is parallel with and 156.75 feet (9 1/2 rods) North of the South line of said Quarter Section; thence South 89 degrees 12 minutes 55 seconds West parallel with the South line of said Quarter Section 65.43 feet to the East line of the West Half of said Quarter Section; thence North 00 degrees 14 minutes 45 seconds East 3.62 feet along said East line; thence South 89 degrees 12 minutes 55 seconds West parallel with the South line of said Quarter Section 1,284.55 feet to the East line of an exception deed recorded as Instrument Number 95-42039 in said Recorder's Office; thence along the bounds of said Exception by the next two (2) courses: 1) North 00 degrees 14 minutes 55 seconds East 103.79 feet; 2) North 89 degrees 45 minutes 05 seconds West 45.00 to the West line of said Quarter Section; thence North 00 degrees 14 minutes 55 seconds East 448.67 feet along said West line to the South line of a Right of Way dedication recorded as Instrument Number 2007-051206 in said Recorder's Office; thence along the bounds of said Right of Way by the next three (3) courses: 1) South 89 degrees 27 minutes 43 seconds East 40.00 feet; 2) North 00 degrees 14 minutes 53 seconds East 395.12 feet; 3) North 89 degrees 27 minutes 43 seconds West 40.00 feet to said West line; thence North 00 degrees 14 minutes 55 seconds East 261.30 feet along said West line to the place of beginning, containing 38.01 acres, more or less.

S:\50690PLA-MF\Legal\Preliminary\Maple Knoll East desc.rtf



WENDOOVER AVENUE	879.54 L.F.
LILLIAN DRIVE	996.49 L.F.
GRALEY PLACE	616.70 L.F.
LYNNETTE LANE	359.00 L.F.
LYNNETTE CIRCLE	350.07 L.F.
TOTAL	3,201.80 L.F.

SITE = 38.01Ac±
(10Ac± BLOCKS / 28Ac± RESIDENTIAL)

RESIDENTIAL TOTAL UNITS= 88
28.01Ac±

TOTAL COMMON AREA= 11.86Ac± (31.2%)
ZONING PUD
FRONT YARD SETBACK - 0'-80',
SIDE YARD SETBACK - 0' min.,
(10' separation between houses)
REAR YARD SETBACK - 0' min.

MAPLE KNOLL PUD OPEN SPACE DATA
site Ac± / open space Ac±

MAPLE KNOLL
(Sections 1-9) ~ 248.25Ac± / 88.43Ac±

SONOMA
(Sections 1-10) ~ 151.34Ac± / 33.65Ac±

MAPLE VILLAS ~ 16.33Ac± / 4.27Ac±

SPRINGMILL VILLAS ~ 38.01Ac± / 11.86Ac±

TOTAL 453.93Ac± / 138.21Ac± (30.4%)

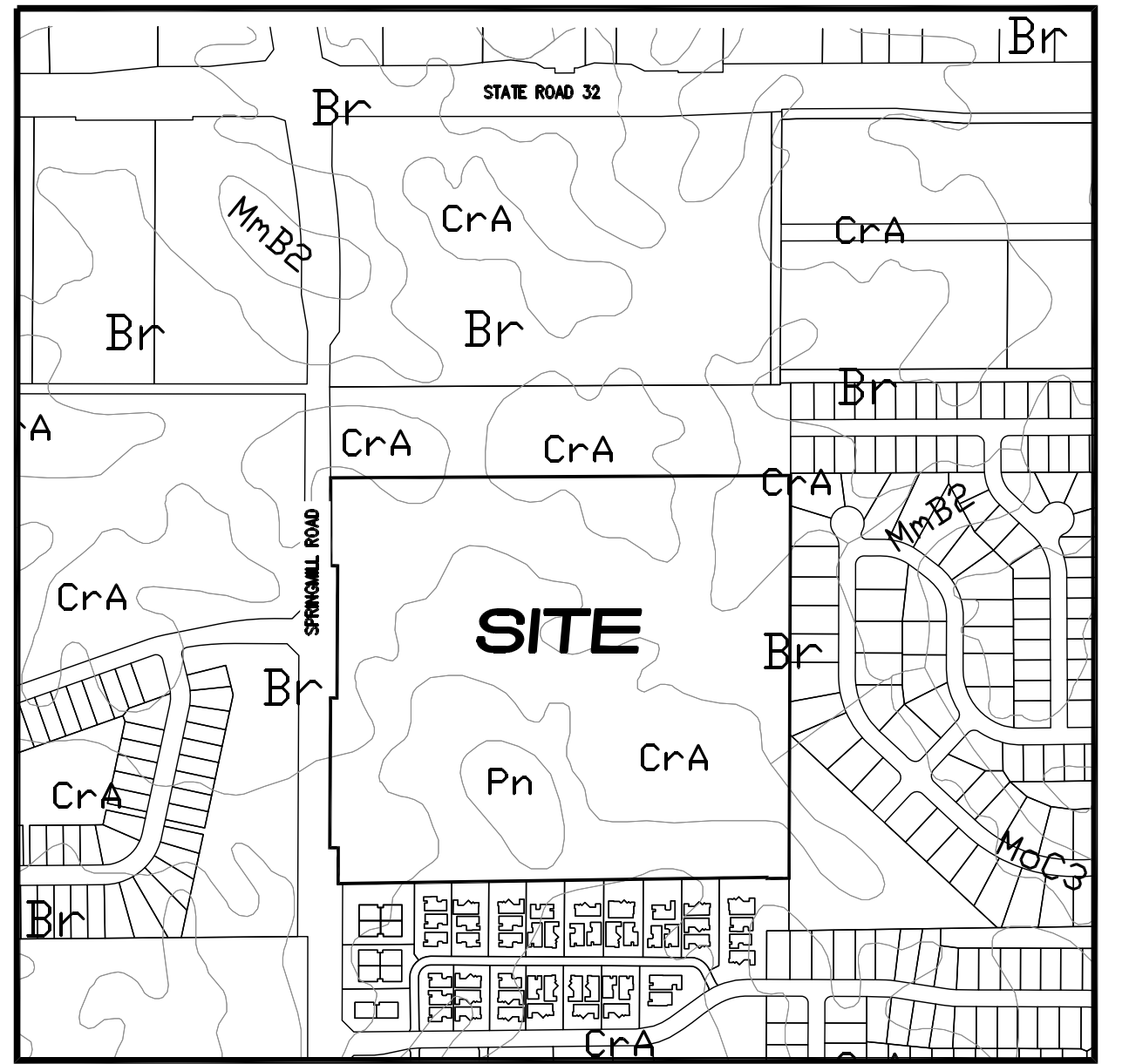
NOTE:

- ALL STREET TREES ARE TO MATCH THE CURRENT CITY OF WESTFIELD MASTER TREE LIST
- STREET TREES SHALL NOT BE WITHIN 4 FEET OF ANY PAVEMENT
- THERE SHALL BE NO TREES WITHIN 10 FEET OF ANY STORM SEWER INCLUDING SSD

ALL PROPOSED UTILITY LOCATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE DURING CONSTRUCTION PLANS.

PROPOSED SANITARY MAINS THROUGHOUT THE SITE WILL BE 8".
PROPOSED STORM PIPES WILL RANGE FROM 12"-36",
PROPOSED WATER MAIN THROUGHOUT THE SITE WILL 8".

EXISTING 16" WATER MAIN ALONG SPRINGMILL ROAD WAS
DESIGNED TO ACCEPT THIS SITE.
EXISTING JOHN EDWARDS LEGAL DRAIN (open ditch) WILL ACCEPT THE
REDUCED FLOWS OF THIS SITE.
EXISTING 10" SANITARY AT THE PROPOSED CONNECTION POINT WAS
DESIGNED TO ACCEPT THIS SITE.



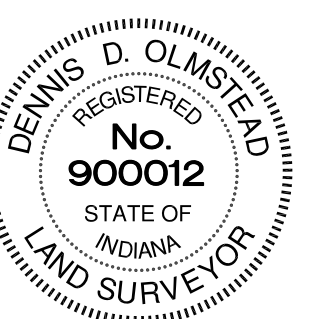
SOILS MAP
SCALE: 1"=1000'
Br / CrA / Pn

CURVE TABLE

CURVE	LENGTH	RADIUS	TANGENT	CHORD BEARING	CHORD	DELTA
C1	56.68'	150.00'	28.68'	N79°11'47"E	56.34'	21°39'02"
C2	57.34'	150.00'	29.02'	S79°19'21"W	56.99'	21°54'10"
C3	39.27'	50.00'	20.71'	N22°46'26"E	38.27'	45°00'00"
C4	36.37'	300.00'	18.21'	N3°44'48"E	36.34'	6°56'44"
C5	36.37'	300.00'	18.21'	S3°44'48"W	36.34'	6°56'44"
C6	44.46'	150.00'	22.39'	N81°47'00"E	44.29'	16°58'52"
C7	37.79'	100.00'	19.12'	N79°11'47"E	37.56'	21°39'02"
C8	45.36'	120.00'	22.95'	S79°11'59"W	45.09'	21°39'26"
C9	27.41'	20.00'	16.35'	S39°32'27"W	25.32'	78°32'02"
C10	39.06'	20.00'	29.60'	S55°40'39"E	33.14'	111°54'10"
C11	31.42'	20.00'	20.00'	N44°43'34"W	28.28'	90°00'00"
C12	31.42'	20.00'	20.00'	N45°16'26"E	28.28'	90°00'00"
C13	11.43'	24.00'	5.82'	S13°54'49"W	11.32'	27°16'47"
C14	31.42'	20.00'	20.00'	S44°43'34"E	28.28'	90°00'00"
C15	26.36'	20.00'	15.49'	N51°57'54"W	24.49'	75°31'21"
C16	26.36'	20.00'	15.49'	S52°30'45"W	24.49'	75°31'21"
C17	26.36'	20.00'	15.49'	N51°57'54"W	24.49'	75°31'21"
C18	10.38'	179.50'	5.19'	N88°36'59"E	10.38'	3°18'53"
C19	38.41'	179.50'	19.28'	N80°49'47"E	38.33'	12°15'33"
C20	13.27'	50.00'	6.67'	N82°18'13"E	13.23'	15°12'26"
C21	20.59'	50.00'	10.44'	S78°17'54"E	20.44'	23°35'20"
C22	13.61'	54.00'	6.84'	S73°43'26"E	13.57'	14°26'25"
C23	38.81'	54.00'	20.28'	N78°28'06"E	37.98'	41°10'30"
C24	39.09'	54.00'	20.45'	N37°08'28"E	38.25'	41°28'46"
C25	30.40'	54.00'	15.61'	N0°16'26"E	30.00'	32°15'19"
C26	29.14'	54.00'	14.94'	N31°18'54"W	28.79'	30°55'21"
C27	34.71'	54.00'	17.98'	N65°11'31"W	34.12'	36°49'54"
C28	60.34'	54.00'	33.75'	S64°22'59"W	57.25'	64°01'06"
C29	37.79'	50.00'	19.85'	S55°58'00"W	36.89'	43°18'04"
C30	2.07'	120.50'	1.04'	S78°06'34"W	2.07'	0°59'04"
C31	24.55'	120.50'	12.32'	S84°26'16"W	24.51'	11°40'20"

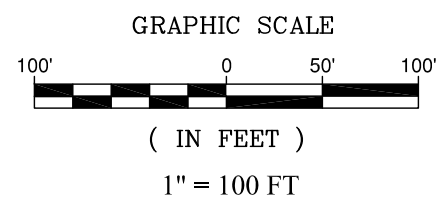
D. D. OLMSTEAD
DENNIS D. OLMSTEAD
REGISTERED LAND SURVEYOR
NO. 900012

2/02/18
DATE



PLANS PREPARED BY:

STOEPPELWERTH & ASSOCIATES, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
7965 E. 106TH STREET, FISHERS, INDIANA 46038
PHONE: (317)-849-5935
FAX: (317)-849-5942
CONTACT PERSON: DENNIS D. OLMSTEAD
EMAIL: DOLMSTEAD@STOEPPELWERTH.COM



THIS INSTRUMENT PREPARED BY:
DENNIS D. OLMESTEAD
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THIS INSTRUMENT PREPARED FOR:
MAPLE KNOLL DEVELOPER, LLC
9757 WESTPOINT DRIVE, SUITE 600
INDIANAPOLIS, INDIANA 46256
CONTACT: PAUL ROUX
PHONE: (317) 863-2053

SPRINGMILL VILLAS

PRIMARY PLAT

ZONING PUD

STATE ROAD 32

NORTH LINE OF THE N.W. 1/4

N.E. COR., W. 1/2, N.W. 1/4
SEC. 2, T.18N., R.3E.

N.W. COR., N.W. 1/4
SEC. 2, T.18N., R.3E.

LEGEND

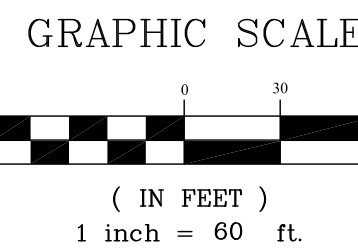
- 30 LOT NUMBER
- D.U.&S.E. DRAINAGE UTILITY & SANITARY SEWER EASEMENT
- D.&U.E. DRAINAGE & UTILITY EASEMENT
- R.D.E. REGULATED DRAINAGE EASEMENT
- B.L. BUILDING LINE
- T.O.B. TOP OF BANK
- C.A. COMMON AREA
- R/W RIGHT OF WAY
- B-B BACK TO BACK OF CURB
- * HANDICAP RAMP

SITE = 38.01Ac±
(10Ac± BLOCKS / 28Ac± RESIDENTIAL)

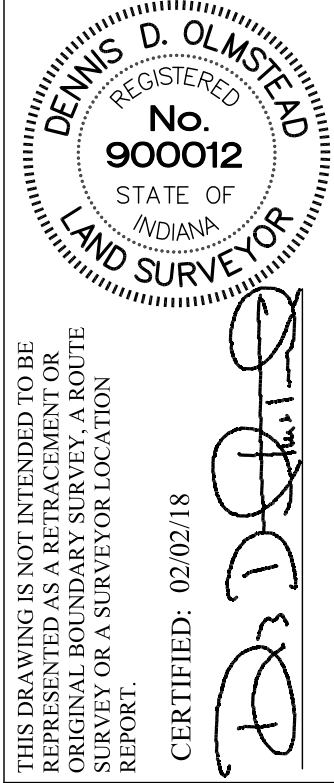
RESIDENTIAL TOTAL UNITS= 88
28.01Ac±

TOTAL COMMON AREA= 11.86Ac± (31.2%)

ZONING PUD
FRONT YARD SETBACK - 0'-80'.
SIDE YARD SETBACK - 0' min.,
(10' separation between houses)
REAR YARD SETBACK - 0' min.



Know what's below.
Call before you dig.



STOEPPELWERTH
ALWAYS ON.

SPRINGMILL VILLAS

PRIMARY PLAT

PREPARED FOR:

SHEET NO. 2
DRAWN BY: GDK
CHECKED BY: GDK

TOWNSHIP: 18N
RANGE: R3E

SECTION: 2

WASHINGTON TOWNSHIP
HAMILTON CO., INDIANA

C100

S & A JOB NO.
50690PLA-MF

REV. PER TAC COMMENTS
DATE
BY

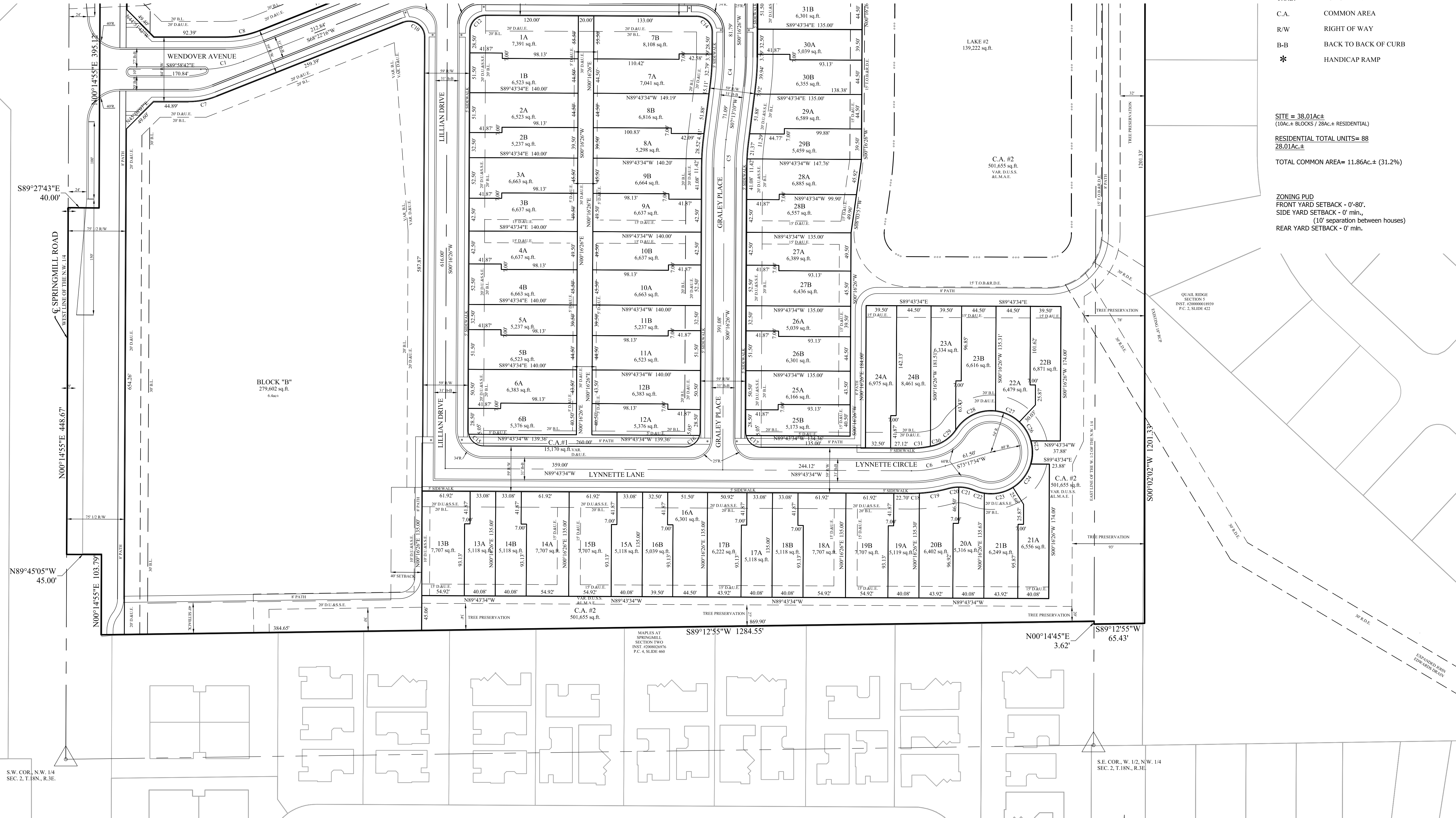
THIS INSTRUMENT PREPARED BY:
DENNIS D. OLMSTEAD
STOEPPELWERTH AND ASSOCIATES INC.
7965 EAST 106TH STREET
FISHERS, INDIANA 46038
PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
MAPLE KNOLL DEVELOPER, LLC
9757 WESTPOINT DRIVE, SUITE 600
INDIANAPOLIS, INDIANA 46256
CONTACT: PAUL ROLUX
PHONE: (317) 863-2053

SPRINGMILL VILLAS

PRIMARY PLAT

ZONING PUD



LEGEND

- 30 LOT NUMBER
- D.U.&S.S.E. DRAINAGE UTILITY & SANITARY SEWER EASEMENT
- D.&U.E. DRAINAGE & UTILITY EASEMENT
- R.D.E. REGULATED DRAINAGE EASEMENT
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- * HANDICAP RAMP

SITE = 38.01Ac±
(10Ac.± BLOCKS / 28Ac.± RESIDENTIAL)

RESIDENTIAL TOTAL UNITS= 88
28.01Ac.±

TOTAL COMMON AREA= 11.86Ac.± (31.2%)

ZONING PUD
FRONT YARD SETBACK - 0'-80'.
SIDE YARD SETBACK - 0' min.,
(10' separation between houses)
REAR YARD SETBACK - 0' min.

THIS DRAWING IS NOT INTENDED TO BE AN ORIGINAL BOUNDARY SURVEY. A ROUTE SURVEY OR A SURVEYOR LOCATION REPORT.

CERTIFIED: 02/02/18

DENNIS D. OLMSTEAD
REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR

DATE

REV. PER TAC COMMENTS

BY

GDK

STOEPPELWERTH
ALWAYS ON.

7965 East 106th Street, Fishers, IN 46038-2905
Phone: (317) 849-5935 Fax: (317) 849-5942

PRIMARY PLAT

PREPARED FOR:

SPRINGMILL VILLAS

WASHINGTON TOWNSHIP

HAMILTON CO., INDIANA

SECTION: 2 TOWNSHIP: 18N RANGE: R3E

DRAWN BY: GDK CHECKED BY: GDK

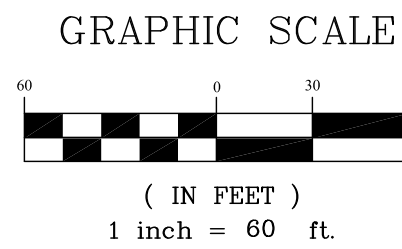
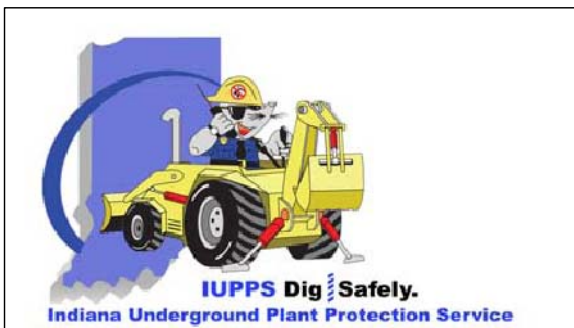
SHEET NO.

C101

S & A JOB NO. 50690PLA-MF



Know what's below.
Call before you dig.



THIS INSTRUMENT PREPARED BY:
DENNIS D. OLMSTEAD
STOEPPELWERTH AND ASSOCIATES INC.
7965 EAST 106TH STREET
FISHERS, INDIANA 46038
PHONE: (317) 849-5935

THIS INSTRUMENT PREPARED FOR:
MAPLE KNOLL DEVELOPER, LLC
9757 WESTPOINT DRIVE, SUITE 600
INDIANAPOLIS, INDIANA 46256
CONTACT: PAUL KOUX
PHONE: (317) 863-2053

SPRINGMILL VILLAS

DEVELOPMENT PLAN

ZONING PUD



LEGEND

- 30 LOT NUMBER
- D.U.&S.E. DRAINAGE UTILITY & SANITARY SEWER EASEMENT
- D.&U.E. DRAINAGE & UTILITY EASEMENT
- R.D.E. REGULATED DRAINAGE EASEMENT
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- T.O.B. TOP OF BANK
- C.A. COMMON AREA
- R/W RIGHT OF WAY
- B-B BACK TO BACK OF CURB
- * HANDICAP RAMP

LEGEND

- EXISTING CONTOUR
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATER LINE
- FLOW LINE
- BURIED ELECTRIC LINE
- OVERHEAD ELECTRIC LINES
- BURIED TELEPHONE LINE
- TELEPHONE LINE
- BURIED CABLE T.V. LINE
- CABLE T.V. LINE
- GAS LINE
- WATER LINE
- SANITARY SEWER LINE: MANHOLE
- SANITARY CLEANOUT
- STORM SEWER LINE: MANHOLE & END SECTION
- CURB INLET
- BEEHIVE OR ROUND INLET
- SQUARE FLAT INLET
- FENCE LINE
- SET NAIL - UNLESS OTHERWISE NOTED
- SET CAPPED REBAR STAMPED S&A FIRM 0008
- SET PIPE UP 1" CAPPED STAMPED S&A FIRM 0008
- HAMILTON COUNTY SURVEYOR
- MEASURED
- RECORDED
- NO ACCESS EASEMENT
- POWER POLE
- LIGHT POLE
- ELECT. TRANSFORMER
- ELECT. PEDESTAL
- ELECT. METER
- GUY WIRE
- TELEPHONE POLE
- TELEPHONE PEDESTAL
- CABLE T.V. POLE
- CABLE T.V. PEDESTAL
- TRAFFIC SIGNAL POLE
- TRAFFIC MANHOLE
- TRAFFIC CONTROL BOX
- GAS VALVE
- GAS METER
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- MAILBOX

THIS DRAWING IS NOT INTENDED TO BE
ORIGINAL BOUNDARY SURVEY, A ROUTE
SURVEY OR A SURVEYOR LOCATION
REPORT.

DENNIS D. OLMSTEAD
REGISTERED
No. 900012
STATE OF INDIANA
LAND SURVEYOR

CERTIFIED: 02/02/18

STOEPPELWERTH
ALWAYS ON.

7965 East 106th Street, Fishers, IN 46038-2905
Phone: (317) 849-5935 Fax: (317) 849-5942

DEVELOPMENT PLAN

PREPARED FOR:

SPRINGMILL VILLAS

WASHINGTON TOWNSHIP

SECTION: 2

TOWNSHIP: 18N

RANGE: R3E

DRAWN BY: GDK

CHECKED BY: GDK

SHEET NO.

C103

S & A JOB NO.

50690PLA-MF

BY

DATE

REV. PER TAC COMMENTS

REVISIONS

*40 Trees (20 for east buffering and 20 for south buffering)
will be preserved to meet buffering requirements.

*On-site landscaping will be installed with the construction of each
building or spread out across the Common Areas. As per the Maple Knoll
PUD, the landscaping requirements for On-Site Landscaping is 4 Shade
Trees per dwelling unit, 2 Ornamental or Evergreen Trees per dwelling
unit and 4 Shrubs per dwelling unit. Likewise, in the Maple Knoll PUD, the
Street Frontage Landscaping requirements include at least one (1) shade
tree per thirty (30) linear feet of road frontage. Street Frontage
Landscaping will be addressed when Blocks A and B are developed.

SITE = 38.01Ac±
(10Ac± BLOCKS / 28Ac± RESIDENTIAL)

RESIDENTIAL TOTAL UNITS= 88
28.01Ac±

TOTAL COMMON AREA= 11.86Ac± (31.2%)

ZONING PUD
FRONT YARD SETBACK - 0'-80'.
SIDE YARD SETBACK - 0' min.,
(10' separation between houses)
REAR YARD SETBACK - 0' min.

GRAPHIC SCALE

Know what's below.
Call before you dig.



WRITTEN PUBLIC COMMENTS

Docket Number: 1803-ODP-03 & 1803-SPP-03
Petitioner: Maple Knoll Developers, LLC
Request: Petitioner requests Overall Development Plan & Primary Plat review of 88 units on 38.09 acres +/- in the Maple Knoll Planned Unit Development District.

Enclosed Attachments:

March 05, 2018 Public Hearing

- | | |
|---------------------------|------------|
| 1. Mucklo, Barbara | (02/26/18) |
| 2. Eversole, Kendra | (03/02/18) |
| 3. Sharp-Evans, Katherine | (03/03/18) |

March 19, 2018 Plan Commission Meeting

- | | | |
|-----------------------|----------------------|------------|
| 4. Renner, Chris | 260 Maple View Drive | (03/06/18) |
| 5. Quinn, Jim and Nan | 212 Maple View Drive | (03/06/18) |

I'm in objection to the development of Springmill Villas or Maple knoll. I live in The Sonoma neighborhood and love seeing the empty

Land, I don't want to see townhomes from my backyard, it would ruin the view and increase traffic on Springmill rd, I already have a hard time getting out of the neighborhood in the morning as it is, and a new development would make it ten times worse. I vote NO! For the development of the land. Please take my vote into consideration and leave the land alone. I like seeing farmland from my backyard. Don't build it.

Thanks for hearing me out
Barbara

To Whom it may concern:

I, Kendra Eversole, as a neighbor of the proposed development of the Springmill Villas (formerly known as Maple Knoll East) 1803-ODP-04 & 1803-SPP-04 have concern and questions for the planning committee. I understand that this is the one and only time the public comments will be accepted, so I appreciate your consideration in advanced.

1. What kind of housing does “two-family dwellings” constitute? Land use of those dwellings to preserve property values of the surrounding neighbors.
2. Are they proposing one two family dwelling per 6000ft² lot? (density of buildings)

Tree Preservation Buffer for surrounding neighbors:

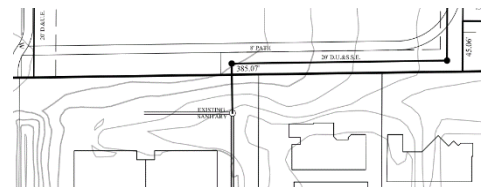
3. 3 acres before or after development: Is the wooded area talked about below measured before the development (existing woods) or after the development of the land? (the remaining tree preservation area) that would have to be sampled by a certified arborist?

With respect to any wooded area greater than three (3) acres in size, any required tree inventory may be done on a sampling basis, by a certified arborist, based upon a representative sample of such woodland which representative sample is approved by the Department and is at least twenty percent (20%) of the size of the subject woodland

4. Destruction of woodland area for drainage installation: **Can an overlay be done** with the primary plat drawing on top of the existing woodland areas to see the path of the proposed drainage route? I'd like to see where the 30' drainage easement will cut through areas currently wooded. Possibility of the drainage easement to be relocated further northward (through the grassy area) if it gets into the woodland area. We want to preserve the woodland buffer for all neighbors to this new proposed development.



5. Brown Bat and Other Wildlife habitat preservation – any studies been done by DNR for preservation of our wildlife? Specifically, Brown Bats? I am not a bat expert, but being a close neighbor to this area, I have many Bats around my house and I know Brown Bats are a protected species. I do believe this area may be a DNR identified wetland area.
6. Landscaping: 42 A) Shrubs are not required to be planted within woodlands located within buffer yards.
 - a. Development of the surrounding areas of “woodland area to be preserved will have an ecological impact on the existing plant material. Root zone impaction, micro-climate change and other factors will affect the plant health on a long-term basis. I'd like to ask that this be amended to include native plantings of woodland shrubs and trees to act not only as a screening buffer to this development but also to have food source for native wildlife. I'd be happy to give suggestions which fit this requirement.
7. A conflict of timing for proposing this development? I am not directly affected but my concerns is for my neighbors in the maples at Springmill who many are snow birds and not able to review these details and plans.
8. Outlot use and possible covenant to dictate how it can be used to preserve property values.
9. These Outlots are about 100' feet from existing maples dwellings – with a very narrow buffer between the existing houses and the proposed outlot.



To Whom it may concern:

I Katherine Sharp-Evans, as a neighbor of the proposed development of the Springmill Villas (formerly known as Maple Knoll East) 1803-ODP-04 & 1803-SPP-04 have concerns and questions for the planning committee. I understand that this is the one and only time that public comments will be accepted, so I appreciate your consideration in advance.

1. What demographic are you targeting on for this development? If it is families, the influx of children will make the already overflowing schools of Westfield break their walls. The referendum that has passed and is under development will be over populated before it breaks ground. As a teacher and a parent, I see the effect of over populated classrooms on students, teachers, and parents.
2. Have you thought about the increased amount of traffic that you will be bringing to Spring Mill Road? The morning commute is already unsafe, as the lanes heading north are backed up so far that one cannot get to the left turn lane. This causes drivers to cross the center line to go around the traffic backed up in the right lane to get to the left turn lane. With the combination of St. Maria Goretti Catholic School traffic and other morning commuters making their way to 31N, it is a battle to get out of our neighborhood going in any direction. Add to that the school bus traffic that will be needed to transport the new influx of children to school.

Westfield is growing at an exorbitant rate. If people are looking for a small town feel, they will soon be looking to other towns. The development needs to stop and the needs of current residents need to be met before we can hope to expand and welcome new community members.

Chris Renner
260 Maple View Drive

Maple Knoll East

Housing development East of Springmill and South of ST Rd 32

Questions:

1. "Two-family dwellings and townhomes" Are the dwellings and townhomes in sets of two and have one common wall? Are there any stand-alone or single-family units?
2. "88 units" How many of the 88 units are joined duplex like (2 family) and how many are stand-alone (single family)?
3. The plotted development has two drainage ponds. Will there be any off site drainage tile and where will that drainage go to?
4. The South side of the development has "tree preservation". How wide will the buffer zone between the building line for the southern most units to the property line (or the current fence)?
5. Will the Maple Knoll East developer have mound to shield view between the Maples of Springmill Maple Knoll East development and the Maple Knoll East development? How high will the mound be? Will the developer have deciduous trees or pine trees on top of the mound?
6. Will the Maple Knoll East developer clean or level all scrub trees, vines, and miscellaneous growth from the area between the Maples of Springmill development and Maple Knoll East development?
7. Will the Maple Knoll East developer raise the elevation of the land on the south-side of his development for the 9 double units? How much will that elevation increase?
8. Does the Maple Knoll East developer have restrictive detached building, shed, fencing, exterior lighting covenants for his development residents?
9. *Soil remediation on south-side and wooded area?*

Robert and Kathleen Neal
194 Maple View Drive, Westfield, IN 46074
317-896-2779

March 5, 2018

Caleb D. Ernest, Associate Planner
City of Westfield
Economic and Community Development Department
2728 East 171st Street
Westfield, IN 46074

Re: Docket Numbers 1803-ODP-04 and 1803-SSP-04
Application filed by Maple Knoll Developer, LLC

Dear Mr. Ernest,

This letter is written to list our grievances and objections to a proposed real estate development to be located east of and adjacent to Spring Mill Road and south of State Road 32 known as Maple Knoll East, now designated as Spring Mill Villas. A public hearing regarding this matter is scheduled to be held at Westfield City Hall on March 5, 2018 at 7:00 PM.

1. The assumption is the two outlots indicated on the concept plan will be or already are zoned for commercial use. The area between 161st Street and US 32, with the exception of the intersection of 161st St. and Spring Mill Road, is residential. Any commercial businesses in that area would add to the already escalating traffic, noise and odors created by businesses located much too close to residences, especially those condos at The Maples closest to Spring Mill Road that have their living areas and bedrooms directly facing the outlot location.
2. Of major concern is what is planned for drainage of storm and surface water runoff and where the sewers will be located. The property starting at Spring Mill Rd and running to the east currently floods with less than one inch of rainfall in a short amount of time (see attached photo). This is exacerbated with heavier amounts of rain. Potential runoff from the proposed development would greatly add to the amount of water expected to be expelled to the retention pond located within The Maples which already fills with that same one inch of rainfall.
3. The loss of the natural habitat provided by the large number of mature trees scheduled to be removed will cause harm to several species of woodland animals, nesting birds (including owls, hawks and even bald eagles), along with plants, flowers and a hiking area for the surrounding neighborhoods. These trees also serve as a visual and noise buffer from traffic on US 32 and Spring Mill Road and from strong wind blowing from north to south.
4. The destruction of the wooded area, as it appears on the Site Location Exhibit and Concept Plan pages that were received in the mail looks to be excessive along the south border of the Maple Knoll property. There would be a detrimental visual impact to all residents of The Maples whose properties abut the southern end of the proposed development. The Maples residents would be forced to look at the back side of two or three story duplex townhouses with patios/decks and windows facing our indoor and outdoor living areas and bedrooms. This also includes the loss of a source of natural light. Our condos are designed so that almost every window in our homes face north. Due to that window placement we already have limited natural light entering our homes. The limited amount of light we receive would be greatly reduced due to the close proximity and height of the units overshadowing our condominiums.
5. The building density of the development is of great concern. There are 18 duplex-type units proposed to be built in the same amount of space that 7 units occupy on The Maples side of the land. The Maples residents, who own single level detached condominiums, will be forced to look at the densely crowded townhouses of 2 or possible 3 stories resulting in complete loss of the natural and open setting we enjoy for which we chose to pay large premiums.

6. There is a concern with the currently unknown architectural aesthetic of the proposed units. The Maples condominiums maintain strict adherence to rigid HOA standards for both the exterior design and the surrounding landscape throughout the entire neighborhood. A development bordering ours with lesser standards will greatly and negatively impact our neighborhood and property values, especially if commercial development is allowed to be built within the PUD.
7. Many trees throughout the current wooded area have already been red flagged by a surveying company. That seems to indicate that this project is a foregone conclusion and the destruction of the woods and subsequent building on that land will take place without regard for public response or concern.

Of personal importance to us and to what should be of a tax consequence to the City of Westfield is the fact that we paid a very hefty premium for our expanded lot and wooded site when we built our condominium at The Maples more than six years ago. All of the other Maples residents on the north side of Maple View Drive also paid a large premium for their lots. These are not inexpensive, cheaply built condominiums and we pay the required taxes associated with homes that exist at a higher price point than all of the surrounding and nearby neighborhoods currently being built or that are already built out. The Maples resale values will plummet if the trees are removed, land torn up, buildings of lesser quality are built and commercial property allowed to exist. Most residents within The Maples have purchased their condominiums with the desire to remain here for many years to come. However, if our circumstances should happen to change and a home sale becomes needed, the proposed high density of the Spring Mill Villas, both in number of units and residents, along with possible commercial construction, none of us may expect to be able sell our condos at all let alone make enough to pay off existing mortgages. Would you be inclined to remain in or to purchase a condo on our street knowing what is to come just a few feet away from your front door?

Sincerely,



Robert Neal
r1954neal@gmail.com



Kathleen Neal
kkneal21@gmail.com



Taken 9: ⁵⁰/_{am} 3-1-2018
less than 1 inch of rain fallen

March 1, 2018

City of Westfield
Economic and Community
Development Department
2728 E. 171st Street
Westfield In 46074

My husband and I are residents of the
Maples at Spring mill. We own one
of the lots that face the green space
which faces the proposed new
development to our north. It is our
hope that you will seriously consider
leaving as much of the green space
as possible since these mature,
beautiful trees cannot be replaced
in our lifetime.

Neighbors to your south,
Jim and Nan Quinn



Petition Number: 1803-DDP-08
Project Name: Laverna Lodge Parking Addition
Subject Site Address: 1550 East 156th Street
Petitioner: Gilliatte General Contractors by CrossRoad Engineers, P.C.
Request: Detailed Development Plan review of a 9,600 square foot parking lot addition.
Current Zoning: AG-SF1: Agriculture / Single-Family Rural District
Current Land Use: Residential Rehabilitation Facility
Approximate Acreage: 3.77 +/-
Exhibits:
1. Staff Report
2. Location Map
3. Site Plan
Property History: 98-IP-181 Improvement Location Permit - Remodel
Staff Reviewer: Caleb Ernest, Associate Planner

PROCEDURAL

Approval of a Development Plan must be granted if the submitted plan demonstrates compliance with the terms of the underlying zoning district, subdivision control ordinance and/or applicable PUD District Ordinance, any variances associated with the site, and any commitments associated with the site.

PROJECT DESCRIPTION

The applicable zoning district is AG-SF1: Agriculture / Single-Family Rural District (Article 4.2). This project is located within the US Highway 31 Overlay District but is exempt from the Overlay Standards as per Article 5.2(L).

The project is for the addition of 9,600 square feet of a parking lot.

The petition was reviewed by the Technical Advisory Committee at its February 20, 2018, meeting and will be available for Consent Agenda approval at the March 19, 2018, Advisory Plan Commission (APC) meeting.

DEVELOPMENT PLAN (Article 10.7(G) of the UDO):

The plans comply.

- 1) Area map insert showing the general location of the site referenced to Streets, section lines and alternative transportation plan system, as well as the Zoning District and use of adjacent property.
- 2) Address and legal description of the property.
- 3) Boundary lines of the property including all dimensions.
- 4) Location, name, centerline and width of all Streets, Private Streets, Alleys, access easements and alternative transportation plan system improvements that are existing or proposed to be located within or adjacent to the property.
- 5) Location, centerline and width (at the Lot Line) measurements of any proposed or existing Driveways within two hundred (200) feet of the property, and any connection to an Alley must be indicated.
- 6) Location and dimensions of primary vehicular ways in and around the proposed development, including depictions of all travel lanes, turning movements, vehicle storage areas and tapers.
- 7) All proposed Street and Driveway improvements, both on and offsite, including measurement of curb radius and/or taper.
- 8) Location and dimensions of existing and proposed sidewalks, pathways, trails or other alternate transportation plan improvements.
- 9) Layout, number, dimension and area (in square feet and acres) of all Lots and Outlots with Building Setback Lines.
- 10) Location and dimensions of all existing structures and paved areas.
- 11) Location and dimensions of all proposed structures and paved areas (indicated by cross-hatching).

- 12) Location of all Floodplain areas within the boundaries of the property.
- 13) Names of legal ditches and streams on or adjacent to the site.
- 14) Location and feasibility statement of all existing and proposed utility facilities and easements, including, but not limited to: sanitary sewer, water, storm water management, electric, gas, telephone and cable.
- 15) Identify buildings proposed for demolition.
- 16) Areas of the property reserved for Development Amenities, Open Space and other similar uses.
- 17) Use of each Lot and/or building by labeling, including approximate density or size of proposed uses and buildings (e.g., number of parking spaces, Dwelling Units, Gross Floor Area, Living Area).

DEVELOPMENT PLAN REVIEW (Article 10.7(E) of the UDO):

The plans comply.

Development Plans shall comply with and be reviewed by the Plan Commission upon finding that the Development Plan is in compliance with the following requirements:

- 18) Compliance with all applicable development and design standards of the Zoning District in which the real estate is located.
- 19) Compliance with all applicable provisions of any Overlay District in which the real estate is located.
- 20) Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
 - a) The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
 - b) The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.

- c) The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
- 21) The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

DISTRICT STANDARDS

The plans comply with Article 4.2 (AG-SF1 District).

- 22) Minimum Lot Area: 3 acres
- 23) Minimum Lot Frontage: 250 feet
- 24) Minimum Building Setback Line:
 - a) Front Yard:
 - i) Expressways or Arterials: 100 feet
 - ii) All others: 80 feet
 - b) Side Yard: 30 feet
 - c) Rear Yard: 30 feet
- 25) Minimum Lot Width: 100 feet
- 26) Maximum Building Height: Two and one-half (2 ½) stories
- 27) Minimum Living Area (Ground Floor):
 - a) Single Story: 1,350 square feet
 - b) All others: 800 square feet
- 28) Development Plan Review: Required except for Single Family Detached Dwellings, Agricultural Uses, and associate Accessory Uses.

DEVELOPMENT STANDARDS (Chapter 6 of UDO)

The plans comply.

29) Accessory use and Building Standards (Article 6.1):

a) General Standards:

- i) Accessory Uses such as public utility installations, walks, driveways, curbs, retaining walls, mail boxes, name plates, lamp posts, bird baths and structures of a like nature are permitted in any required Front, Side or Rear Yard, and with the issuance of a permit as may be required.

30) Architectural Standards (Article 6.3)

31) Building Standards (Article 6.4)

32) Fence Standards (Article 6.5)

33) Height Standards (Article 6.6)

34) Home Business Standards (Article 6.7)

35) Landscaping Standards (Article 6.8)

- a) Parking Area Landscaping: This section shall apply to Parking Areas in order to: (i) screen Parking Areas from Rights-of-way; (ii) prevent the creation of large expanses of paving; and (iii) provide shade to paved areas.

(1) Interior Parking Area Landscaping:

- (a) Minimum Area Required: A minimum landscape area of Parking Areas shall be set aside for Parking Area islands in accordance with the following:

(2) Interior Parking Area Islands:

- (a) Plantings: Parking Area islands shall include at least one (1) tree and four (4) shrubs per island. One hundred (100) percent of every island shall be covered with permitted Groundcover material to achieve complete coverage.

(3) Perimeter Parking Area Landscaping:

- (a) Design: Perimeter Parking Area landscaping shall be a minimum of five (5) feet wide and shall extend along the perimeter of Parking Areas and include:

36) Lighting Standards (Article 6.9)

a) General Lighting Standards: The following standards shall apply:

- i) All Light Fixtures, with the exception of internally-illuminated signs or Electronic Signage, shall be Fully Shielded and direct light downward toward the earth's surface.
- ii) All lighting sources shall be directed away from reflective surfaces to minimize glare upon adjacent Lots and Rights-of-way.
- iii) All lighting sources, with the exception of internally-illuminated signage or Electronic Signage, shall be positioned in such a manner as to direct light away from adjacent Lots and Rights-of-way.
- iv) Light pole height shall not exceed twenty-five (25) feet. All Light Fixtures in Parking Areas shall be designed and located to confine emitted light to the Parking Area.
- v) All Light Fixtures shall meet City Building Code requirements for their appropriate construction class.

b) Multi-Family Residential, Business and Industrial Standards: The following shall apply to all Multi-Family, Business, and Industrial Uses.

- i) All Light Fixtures, with the exception of internally-illuminated signage or Electronic Signage, shall be positioned in such a manner so that no light-emitting surface is visible from a residential Lot or Right-of-way when viewed at ground level.
- ii) Light meter readings shall not exceed: (i) one-half (0.5) foot-candles at a single-family or multi-family residential Lot Line; or (ii) one (1.0) foot-candle at all other Lot Lines.
- iii) All lights on poles, stands, or mounted on a building shall have a shield, adjustable reflector, and non-protruding diffuser.

- iv) All canopy structures shall have lights with diffusers which are recessed, and which do not extend below the surface of the canopy as measured on a plane parallel to the earth's surface.
 - v) Lighting under awnings and canopies shall only illuminate a Front Building Façade, a sign under an awning or canopy, or the sidewalk, but shall not illuminate the awning or canopy itself.
 - vi) All Parking Area lighting for nonresidential uses shall be reduced (e.g., turned off or dimmed) by a minimum of thirty percent (30%) within thirty (30) minutes of closing of the last business or no later than 11:00 p.m.
- c) Sign Lighting:
- i) Light Fixtures used to illuminate an outdoor advertising sign, other than a Monument Sign or an internally-illuminated sign, shall be mounted on top of or above the sign structure and shall comply with the shielding requirements of this Article.
 - ii) Light Fixtures used to illuminate ground mounted or Monuments Signs may be illuminated with a ground mounted or bottom mounted Light Fixture, provided that the Light Fixtures is Fully Shielded and all light output is directed onto the sign surface.
 - iii) Lamps utilized for the internal illumination of Wall Signs shall be turned off at 11:00 p.m. or when business closes.
- d) Lighting Plans: The Applicant for any permit required by this Ordinance that proposes outdoor lighting shall submit a Lighting Plan which includes:
- i) A site plan indicating the location of all lighting structures, supports and Light Fixtures, including those Light Fixtures which presently exist on site and those which are proposed for the site.
 - ii) A graphic and/or textual description of all lighting fixtures, both proposed and existing on-site. The description may include, but is not limited to cut sheets and illustrations by the manufacture, lamp types, wattages, and lumen outputs.
 - iii) A site plan with illuminance levels superimposed on the site plan in the form of an iso foot-candle diagram or point-by-point grid diagram.
 - iv) All plot lighting levels shall be depicted at ten-foot intervals or less.

v) The iso foot-candle diagram shall plot foot-candle increments of one-half (0.5) foot-candle or less.

vi) Photometric data depicting the angle of cut off of light emissions.

37) Lot Standards (Article 6.10)

38) Outside Storage and Display (Article 6.12)

39) Outdoor Café and Eating Areas (Article 6.13)

40) Parking and Loading Standards (Article 6.14)

a) Landscaping: Parking and loading areas shall be screened in accordance with *Article 6.8 Landscaping Standards*.

b) Lighting: A system of lights shall be installed to provide an adequate standard of illumination over the entire Parking Area of business uses during business hours and minimum security illumination during non-business hours. All lights shall be shielded so that minimum glare will extend to the adjacent property and meet the requirements of *Article 6.9 Lighting Standards*.

c) Required Spaces: Off-street Parking Spaces shall be provided as follows:

i) Single-family Dwellings:

(1) All other Zoning Districts: Two (2) spaces per Dwelling Unit

41) Performance Standards (Article 6.15)

42) Setback Standards (Article 6.16)

Comment: See District Standards.

43) Sign Standards (Article 6.17)

44) Vision Clearance Standards (Article 6.19)

45) Yard Standards (Article 6.21)

DESIGN STANDARDS (Chapter 8 of UDO)

The plans comply.

- 46) Easement Standards (Article 8.3)
 - 47) Pedestrian Network Standards (Article 8.7)
 - 48) Storm Water Standards (Article 8.8)
 - 49) Street and Right-of-Way Standards (Article 8.9)
 - 50) Surety Standards (Article 8.12)
 - 51) Utility Standards (Article 8.13)
-

DEPARTMENT COMMENTS

- 1) **The Detailed Development Plan complies with the applicable zoning ordinances.**
- 2) **ACTION: Approve detailed development plan (1803-DDP-08).**
- 3) If any APC member has questions prior to the meeting, then please contact Caleb Ernest at 317.519.8630 or cernest@westfield.in.gov.



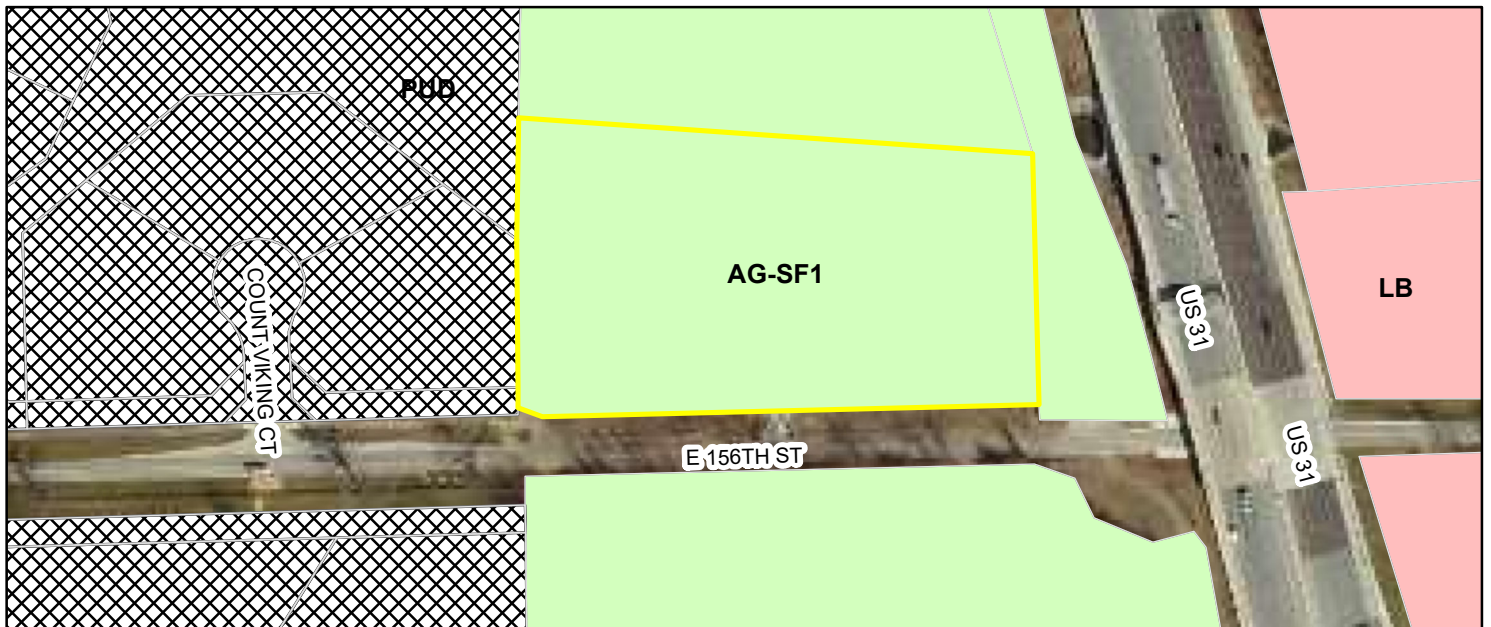
Property Location Map
Laverna Lodge Parking Addition
Detailed Development Plan
1803-DDP-08



Aerial Location Map



Zoning Map



[illegible]

ENGINEER
CROSSROAD ENGINEERS, PC
3417 SHERMAN DRIVE
BEECH GROVE, IN 46107
PHONE: (317) 780-1555
CONTACT: GREGORY J. ILKO
EMAIL: gilko@crossroadengineers.com

PLAN INDEX	
SHEET #	SUBJECT
100	TITLE SHEET
200	TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN
300	SITE DIMENSION, UTILITY AND GRADING PLAN
400	EROSION CONTROL PLAN
401-402	EROSION CONTROL DETAILS
500	LANDSCAPE PLAN
600	MISCELLANEOUS DETAILS AND SPECIFICATIONS
601	SPECIFICATIONS
700	MODULAR BLOCK RETAINING WALL PLAN AND PROFILE
800	PHOTOMETRIC PLAN
801	PHOTOMETRIC CUT SHEETS

CONTRACTOR SHALL SCHEDULE A STORMWATER PRE-CONSTRUCTION MEETING WITH THE CITY OF WESTFIELD PUBLIC WORKS DEPARTMENT PRIOR TO ANY ON-SITE CONSTRUCTION ACTIVITIES.

DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT CITY OF WESTFIELD CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

ALL CONTRACTORS SHALL REVIEW CITY OF WESTFIELD STANDARDS AND SPECIFICATIONS PRIOR TO BIDDING ON THIS PROJECT. ADDITIONAL SPECIFICATIONS, NOT INCLUDED IN THIS PLAN SET, MAY BE REQUIRED.

THE PRESENCE OF A CITY OF WESTFIELD REVIEW AND ACCEPTANCE STAMP ON PLANS DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER FROM COMPLIANCE OF THE "CITY OF WESTFIELD CONSTRUCTION STANDARDS, LATEST EDITION." THIS REVIEW DESIGNATES THAT THE GENERAL CONFORMANCE WITH DESIGN AND SPECIFICATIONS HAVE BEEN MET. FIELD CHANGES MAY BECOME NECESSARY IN ORDER TO COMPLY WITH DETAILED CITY OF WESTFIELD SPECIFICATIONS.

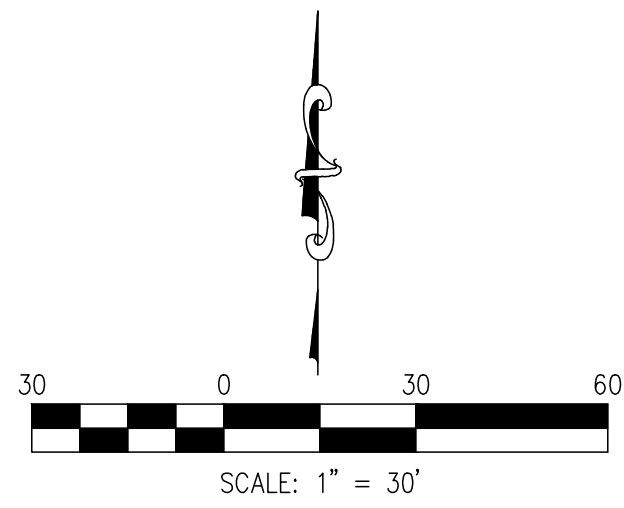
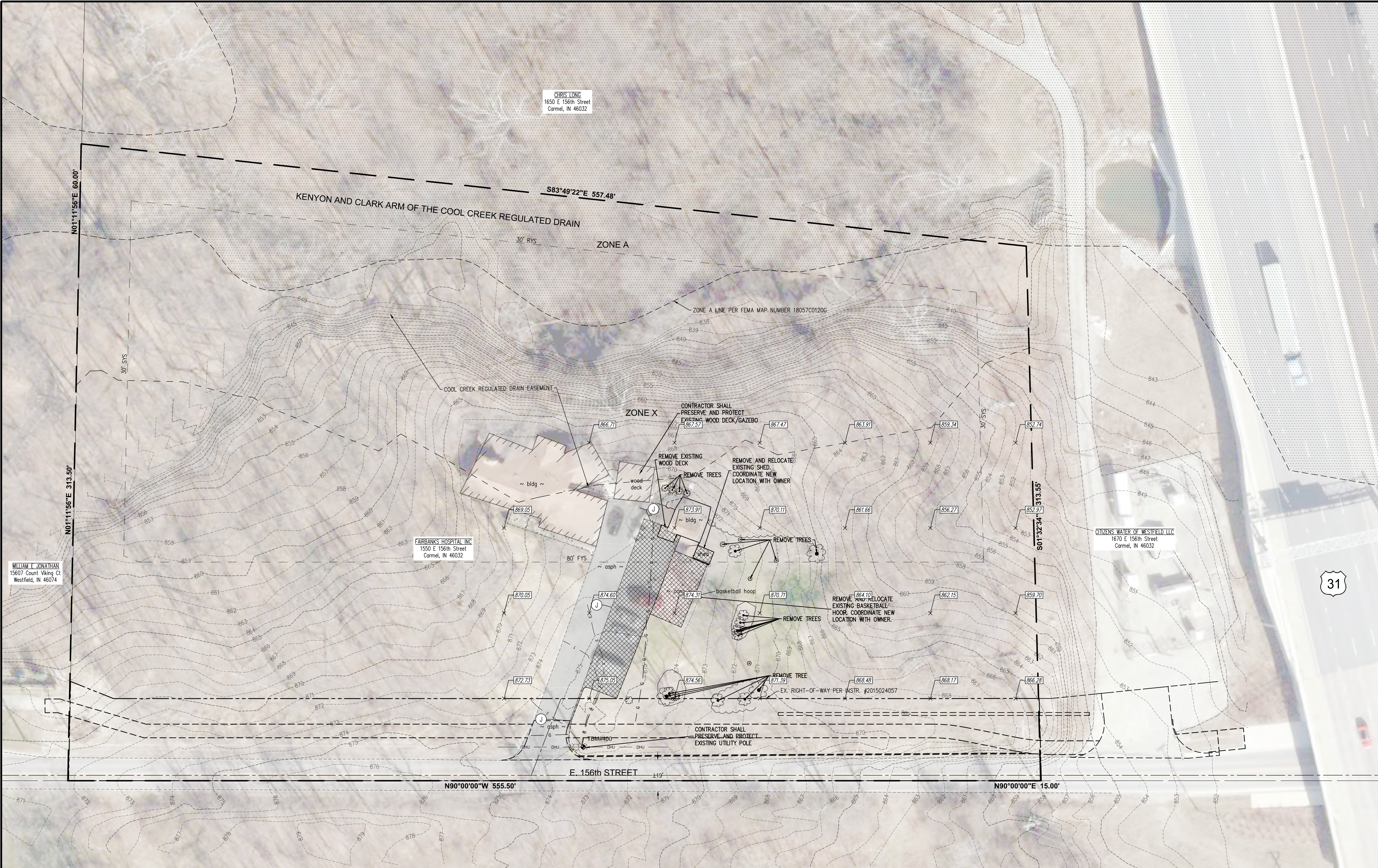
ERU ANALYSIS	
TOTAL PROPOSED IMPERVIOUS AREA	= 16,988 SFT
CITY OF WESTFIELD ERU RATIO	= 3,500 SFT/ERU
TOTAL ERU'S (16,988 / 3,500)	= 4.85 ERU'S

PLANS ACCEPTED



Accepted MAR 12 2018 Accepted By: John Bankin

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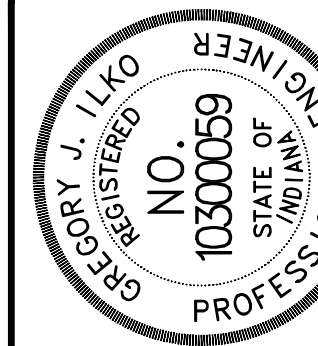


TOPOGRAPHICAL SURVEY AND DEMOLITION PLAN

LAVERNA LODGE - PARKING ADDITION

JOB No.	DRAWN	CHECKED	TEN
DATE JANUARY 31, 2018	DESIGNED	APPR.	GJI

SHEET 200



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NO.	DATE	REVISIONS	BY	APPR.
1	3-5-18	REVISIONS PER COMMENT LETTERS FROM WESTFIELD DPW	MSK	CJL
2	3-9-18	ADDED NOTE #11 TO SHEET 300, ADDED STAGING AREA BOUNDARY AND REVISED CONSTRUCTION ENTRANCE HATCH ON SHEET 400	MSK	CJL
3				
4				
5				
6				
7				
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9				

SHEET 200

LEGAL DESCRIPTION

ALTA/ACSM LAND TITLE SURVEY PREPARED BY MD-STATES ENGINEERING DATED 09/22/03.
PART OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION TWELVE (12), TOWNSHIP EIGHTEEN (18) NORTH, RANGE THREE (3) EAST, BEGIN AT THE SOUTHWEST CORNER OF THE SAID EAST HALF OF SAID QUARTER SECTION AND RUN NORTH NINETEEN (19) RODS, EAST THIRTY-THREE (33) RODS AND ELEVEN (11) FEET, SOUTH NINETEEN (19) RODS, WEST THIRTY-THREE (33) RODS AND ELEVEN (11) FEET TO THE PLACE OF BEGINNING.
ALSO: PART OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 12, TOWNSHIP 18 NORTH, RANGE 3 EAST, DESCRIBED AS FOLLOWS:
BEGINNING AS A POINT 19 RODS NORTH OF THE SOUTHWEST CORNER OF THE EAST HALF OF SAID QUARTER SECTION, RUNNING THENCE EAST 555.5 FEET TO A POINT, THENCE IN A NORTHWESTERLY DIRECTION TO A POINT IN THE WEST LINE OF THE EAST HALF OF THE SAID SOUTHEAST QUARTER SECTION, WHICH POINT IS 60 FEET NORTH OF THE ORIGINAL STARTING POINT, THENCE SOUTH 80 FEET TO THE PLACE OF BEGINNING. ALSO BEGINNING ON THE SOUTH LINE OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SAID SECTION AT A POINT 555.5 FEET EAST OF THE SOUTHWEST CORNER OF SAID 1/4 QUARTER SECTION, THENCE NORTH A DISTANCE OF 313.5 FEET TO A POINT, THENCE IN A SOUTHEASTERLY A POINT IN THE SOUTH LINE OF SAID HALF QUARTER SECTION, WHICH POINT IS 15 FEET EAST OF THE ORIGINAL STARTING POINT, THENCE WEST ON THE SOUTH LINE OF SAID HALF QUARTER SECTION A DISTANCE OF 15 FEET TO THE PLACE OF BEGINNING.

FLOODPLAIN INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS TRACT OF LAND DESCRIBED HEREON LIES WITHIN ZONE 'X' (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND ZONE 'A' (NO BASE FLOOD ELEVATIONS DETERMINED) ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP FOR HAMILTON COUNTY, INDIANA, COMMUNITY PANEL NO. 18057C01200, WHICH BEARS AN EFFECTIVE DATE OF NOVEMBER 19, 2014.

TOPOGRAPHICAL NOTES

- CONTRACTOR SHALL DISPOSE OF ALL MATERIALS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- UTILITIES ARE GRAPHICAL REPRESENTATION PER SURVEY AND MAPPING. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH APPLICABLE UTILITY COMPANIES FOR SERVICE DIS-CONNECTIONS.

BENCHMARK INFORMATION

ORIGINATING B.M.
STATION NAME V 42
TYPE OF MONUMENT: CDS DISK
CIVIL TOWNSHIP: WASHINGTON
USGS QUAD: WESTFIELD
RECOVERED DATE: 6-8-2010
ELEV. = 876.07
FIELD LOCATED
N.A.D. MAD 83 (CORS 96)
N: 1736351.93
E: 196466.63
ELEV: 884.63 (NAVD 88)
TBM #400
RR SPIKE IN EAST FACE OF POWERPOLE #052 592. UP ±1.0'. POWERPOLE LOCATED ON NORTH SIDE OF 156th STREET APPROXIMATELY 15' EAST OF DRIVEWAY FOR 1550 156th STREET.

EXISTING LEGEND

POWERPOLE W/LIGHT	800	CONTOURS
BASKETBALL GOAL		PROPERTY LINE
TREE, BUSH & STUMP		SECTION LINE
TEMP. BENCHMARK		RIGHT-OF-WAY
ASPHALT		LANDSCAPE LINE
CONCRETE		PAVEMENT LINE
REMOVAL/DEMOLISH	G G G G	GAS LINE
	T T T T	TELEPHONE LINE
SAWCUT	E E E E	ELECTRIC LINE
	OH1 OH1 OH1	OVERHEAD UTILITY LINE
		TREE LINE
		FLOODWAY ZONE 'A'
800 FINISH GRADE		EXISTING ELEVATIONS
800		EXISTING CONTOURS

UTILITIES

Note: Listed below are the Indiana Underground Plant Protection Services Contacts; Others not listed may exist.

SEWER
CITY OF WESTFIELD UTILITIES
2706 E. 171st STREET
WESTFIELD, IN 46074
PHONE: (317) 804-3138
FAX: (317) 804-3190
CONTACT: HARRY NIKIDES

GAS
WESTERN
16000 ALLISONVILLE ROAD
NOBLESVILLE, IN 46061
PHONE: (317) 317-776-5534
CONTACT: DON PERDUE

GAS
WESTFIELD GAS CORP.
2150 DR. MARTIN LUTHER KING JR. ST.
INDIANAPOLIS, IN 46200
PHONE: (317) 927-4684
CONTACT: RICHARD MILLER, JR.

WATER
CITY OF WESTFIELD UTILITIES
2706 E. 171st STREET
WESTFIELD, IN 46074
PHONE: (317) 804-3138
FAX: (317) 804-3190
CONTACT: HARRY NIKIDES

TELEPHONE
AT&T
5858 N. COLLEGE AVENUE
INDIANAPOLIS, IN 46220
PHONE: (317) 252-4007
CONTACT: MICHAEL HAYNES

FIRE DEPARTMENT
WESTFIELD FIRE DEPARTMENT
17535 DARTMOUTH ROAD
WESTFIELD, IN 46074
PHONE: (317) 804-3303
CONTACT: ROBERT GAYLOR

CABLE
BRIGHTHOUSE NETWORKS
3030 ROOSEVELT AVENUE
INDIANAPOLIS, IN 46218
PHONE: (317) 632-9077
CONTACT: JASON KIRKMAN

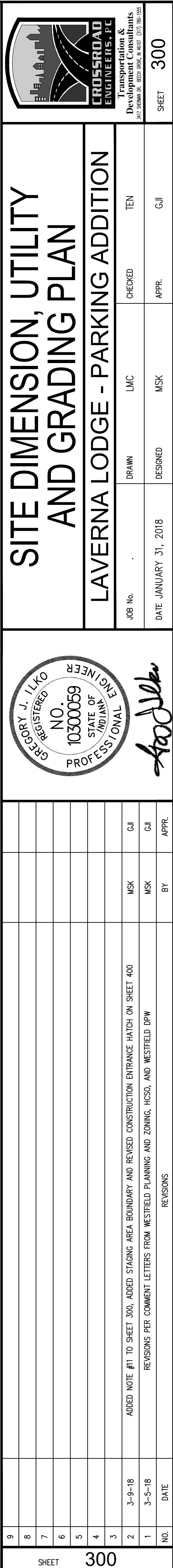
CABLE
COMCAST
9750 E. 150th STREET, STE 1600
NOBLESVILLE, IN 46060
PHONE: (765) 646-9113
CONTACT: DALE LAMBERT

ELECTRIC
DUKE ENERGY
100 MILL CREEK ROAD
NOBLESVILLE, IN 46060
PHONE: (317) 804-3303
CONTACT: TRACY GRADY

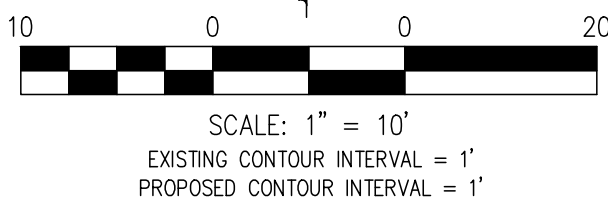
EXISTING UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL, PRIOR TO THE INSTALLATION OF ANY PROPOSED INFRASTRUCTURE, NOTIFY THE DESIGN ENGINEER IMMEDIATELY.



NOTE: The underground utilities shown have been located from field survey information and existing drawings. The surveyor makes no guarantees that the underground utilities comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although the surveyor does certify that they are located as accurately as possible from information available. The surveyor has not physically located the underground utilities.



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ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE OR COUNTY OFFICIALS

EROSION CONTROL LEGEND

- MULCHED SEEDING
- CONSTRUCTION DRIVE (SEE DETAIL-SHEET 601)
- EXISTING CONTOURS
- PROPOSED CONTOURS
- SILT FENCE SLOPE CHECK (NOTED 3 NWS-6 OR APPROVED EQUAL) (SEE DETAIL-SHEET 601)
- CONSTRUCTION LIMITS
- CURB INLET PROTECTION (SEE DETAIL-SHEET 401)
- CONCRETE WASHOUT AREA (SEE DETAIL-SHEET 401)

EROSION CONTROL NOTES

1. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY STATE, COUNTY, OR LOCAL OFFICIALS.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IN THE FIELD BY THE INSPECTOR.
3. THERE SHALL BE NO DIRT, DEBRIS, OR STORAGE OF MATERIALS WITHIN PUBLIC RIGHT-OF-WAY.
4. CONSTRUCTION STAGING AREA (TO BE DETERMINED BY CONTRACTOR) SHALL INCLUDE THE NOI POSTING, PORT-O-LETS, TRASH CONTAINERS, AND FUELING TANKS. CONTRACTOR SHALL NOT LOCATE STAGING AREA WITHIN PROPOSED PARKING LOT.
5. A TRAINED INDIVIDUAL MUST PERFORM AN INSPECTION ONCE A WEEK AND AFTER EVERY 1/2" OR MORE RAIN EVENT. A LOG OF THE INSPECTION REPORTS MUST BE KEPT AND MADE AVAILABLE TO THE TOWN INSPECTOR UPON REQUEST.
6. CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE BY ROUTINE CLEANING/SWEEPING ACTIVITIES AT THE CONCLUSION OF EACH CONSTRUCTION DAY.
7. CONTRACTOR SHALL BE REQUIRED TO REPAIR ALL ASPHALT PAVEMENT THAT BECOMES DETERIORATED DUE TO CONSTRUCTION ACTIVITIES.

ERU ANALYSIS

TOTAL PROPOSED IMPERVIOUS AREA = 16,988 SFT
CITY OF WESTFIELD ERU RATIO = 3,500 SFT/ERU
TOTAL ERU'S (16,988 / 3,500) = 4.85 ERU'S

PLANS ACCEPTED

CITY OF
Westfield
INDIANA
Date Accepted MAR 12 2018 Accepted By John Rankin

NOTE:
NO EARTHWORK DISTURBING ACTIVITY
MAY COMMENCE UNTIL A STORM WATER
MANAGEMENT PERMIT IS OBTAINED.



EROSION CONTROL PLAN

LAVERNA LODGE - PARKING ADDITION

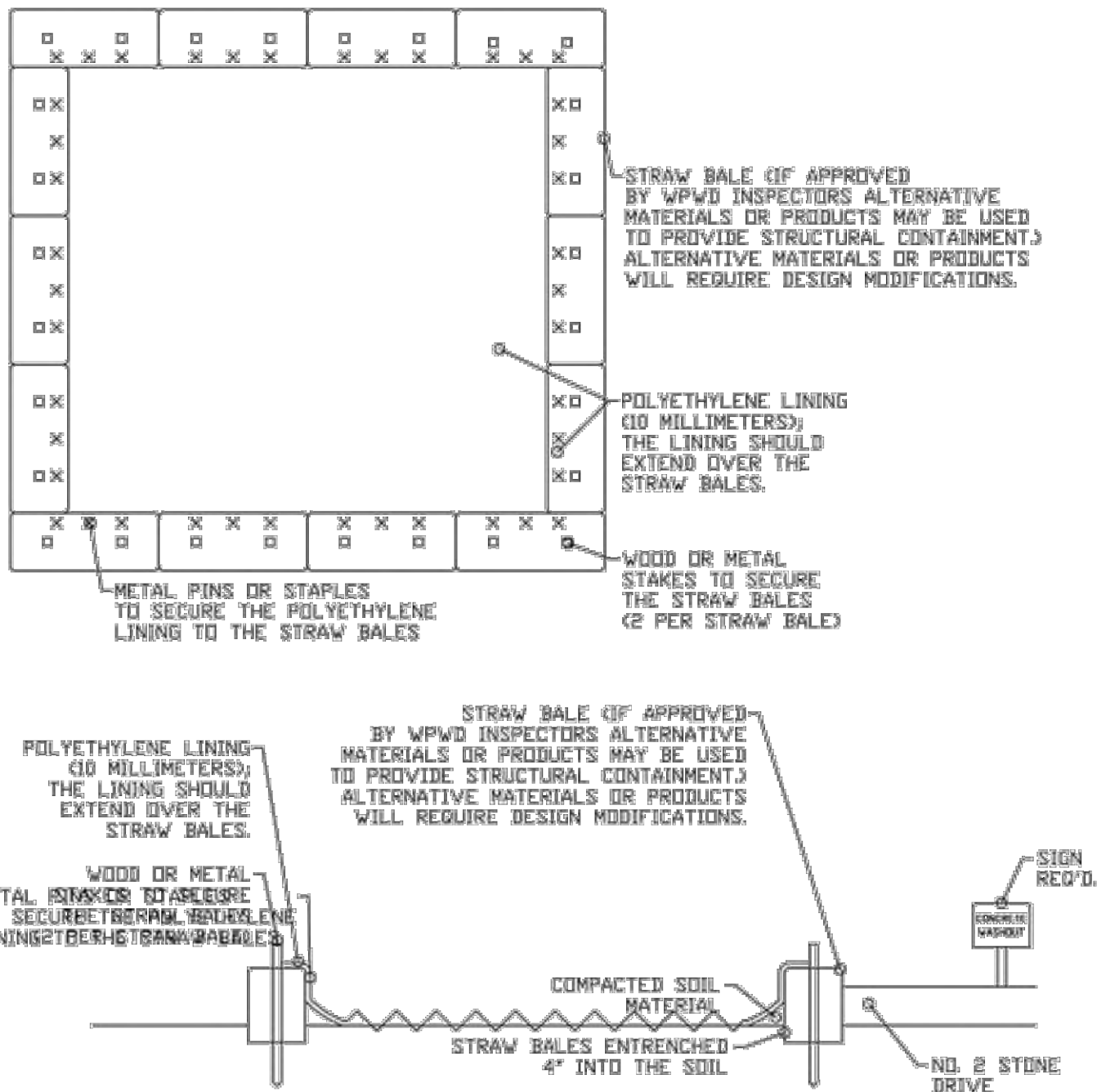
JOB No.	DRAWN	LMC	CHECKED	TEN
DATE JANUARY 31, 2018	DESIGNED	MSK	APPR.	GJJ



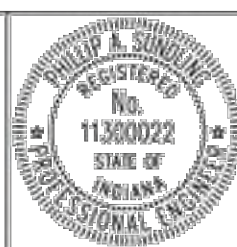
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NO.	DATE	REVISIONS	BY	APPR.
9				
8				
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3				
2	3-9-18	ADDED NOTE #1 TO SHEET 300. ADDED STAGING AREA BOUNDARY AND REVISED CONSTRUCTION ENTRANCE HATCH ON SHEET 400	MSK	GJJ
1	3-5-18	REVISIONS PER COMMENT LETTERS FROM WESTFIELD PLANNING AND ZONING, HCSS AND WESTFIELD DPW	MSK	GJJ

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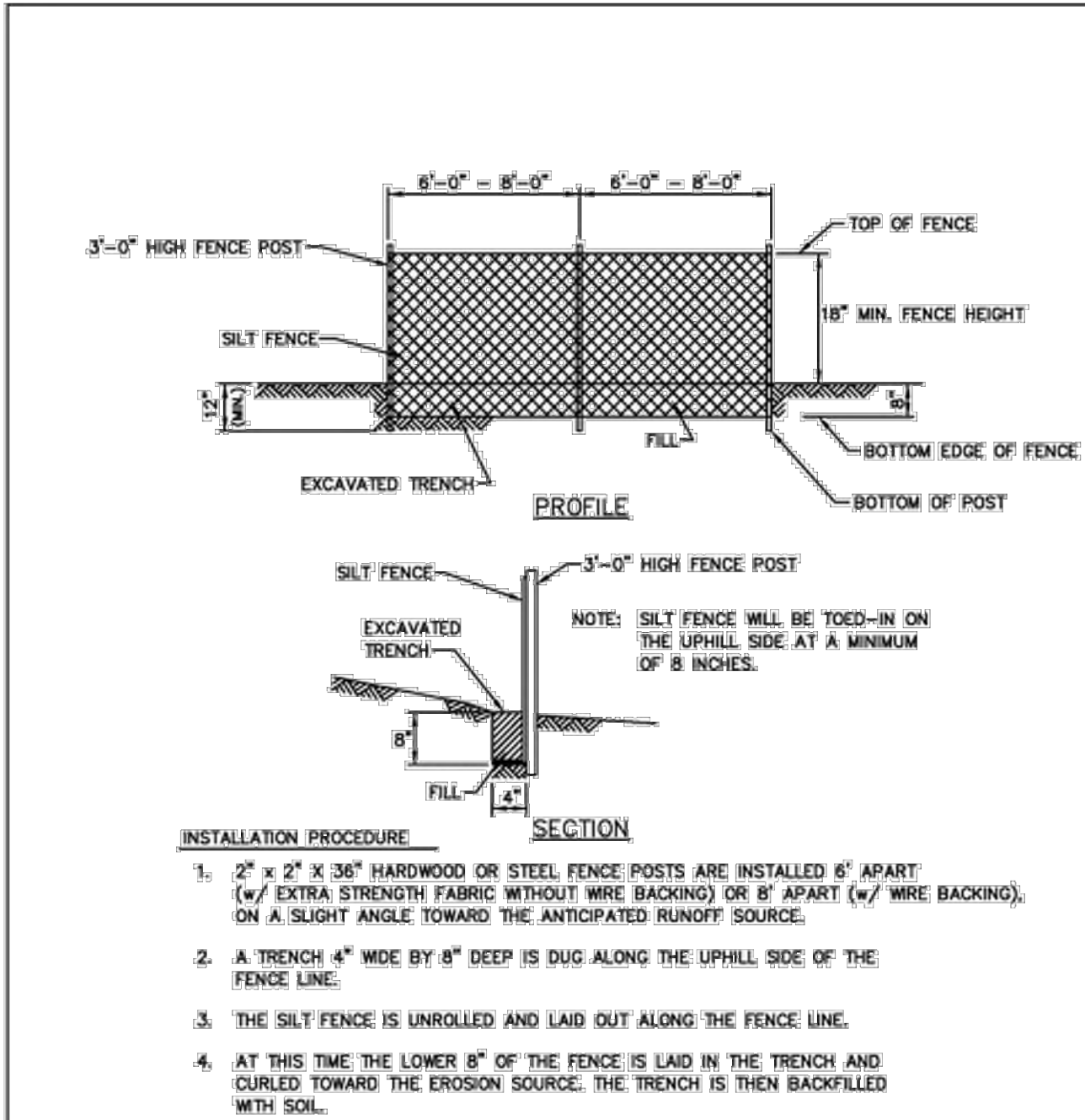
(B) CONCRETE WASHOUT DETAIL



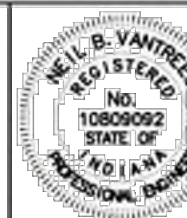
CITY OF WESTFIELD, INDIANA

Dr. J. Ilko 2/12/16
DATE

FIGURE EC-05



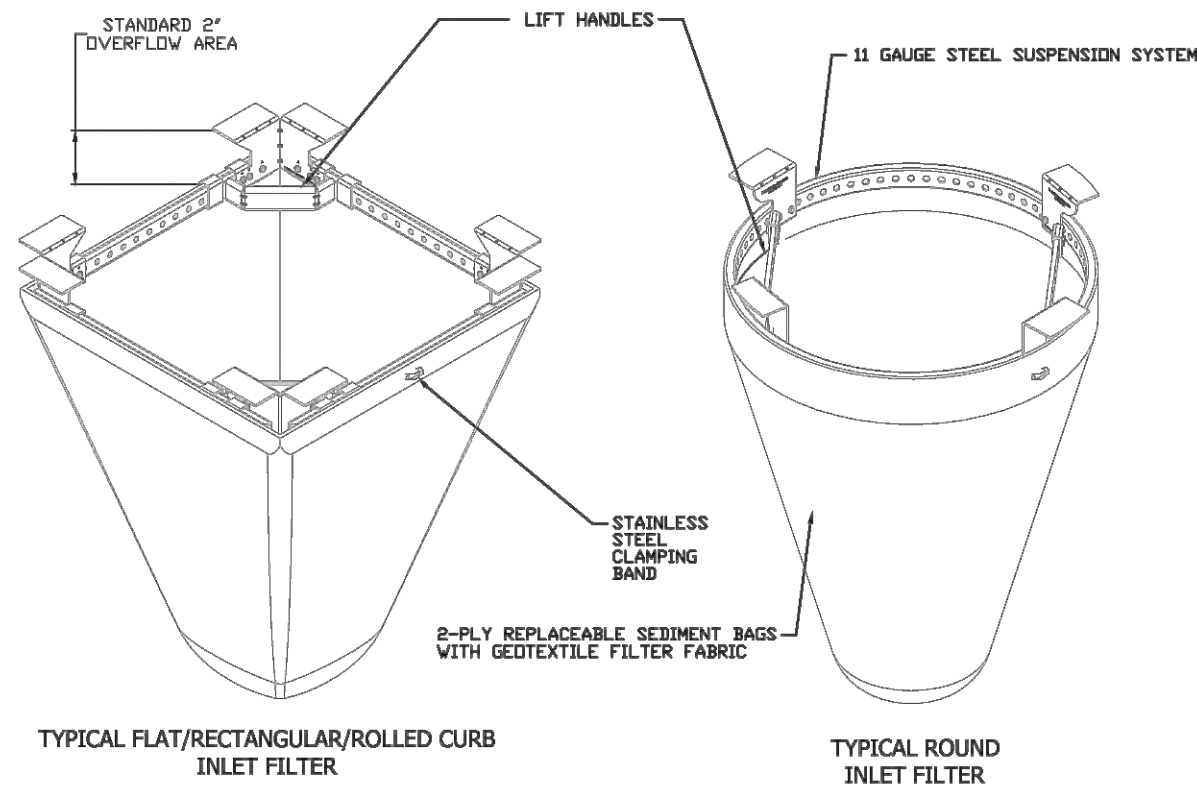
SILT FENCE DETAIL



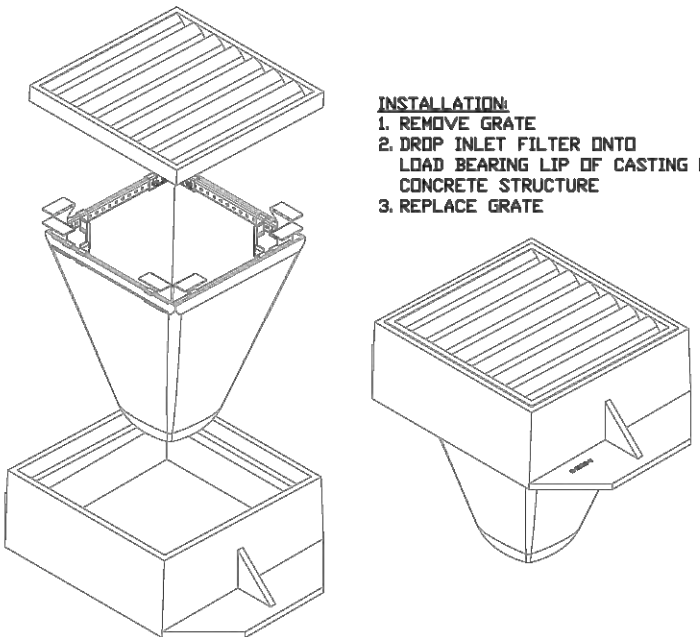
CITY OF WESTFIELD, INDIANA

Neil B. Vanter 4/1/13
DATE

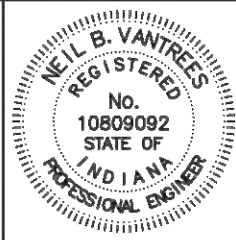
FIGURE EC-4



IPP FLeXstorm Inlet Filter Specifications		
Material Property	Test Method	Value (min ave)
x Inner Filter Bag Specs (2 ft ² min vol)		
Grab Tensile	ASTM D 4632	300 lbs. / 200 lbs
Puncture Strength	ASTM D 4833	65 lbs. / 90 lbs
Trapezoidal Tear	ASTM D 4533	45 lbs. / 75 lbs
UV Resistance	ASTM D 4355	70% at 500 hrs / 100%
App Open Size (AOS)	ASTM D 4751	70 sieve / 40 sieve / 1212 mm / 1425 mm
Permittivity	ASTM D 4491	2.0 /sec. / 2.1/sec
Water Flow Rate	ASTM D 4491	145 gpm/sqft / 145 gpm/sqft
x Polyester Outer Reinforcement Bag Specifications		
Weight	ASTM D 3776	4.55 oz/sqyd +/- 15%
Thickness	ASTM D 1777	.040 +/- .005
x Frame Construction		
A36 Structural Steel	ASTM A 576	Tensile Strength > 58,000 psi; Yield Strength > 36,000 psi



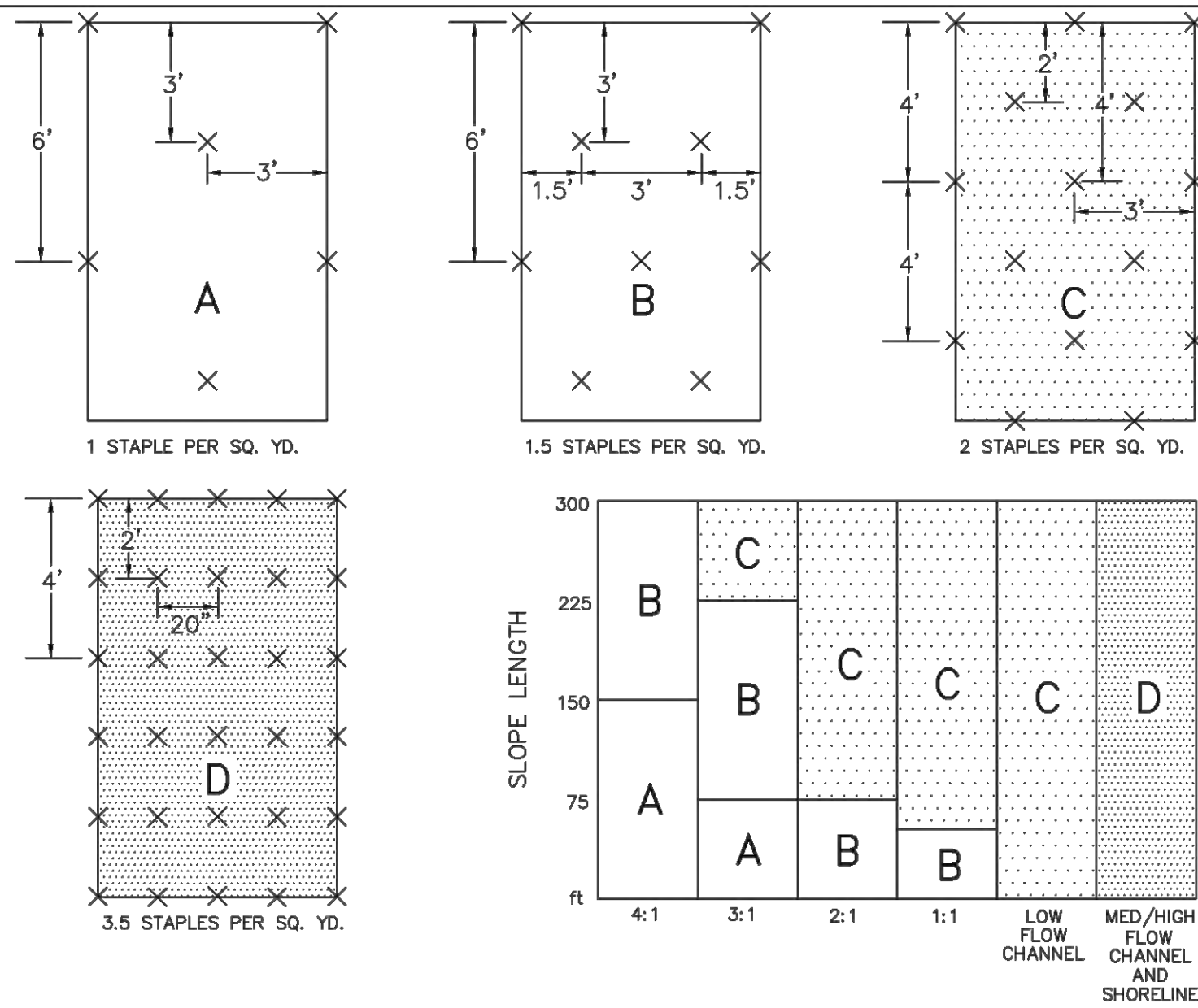
(A) INLET PROTECTION



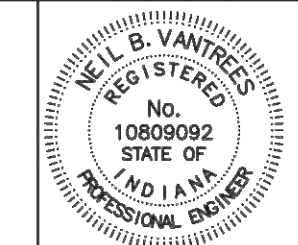
CITY OF WESTFIELD, INDIANA

Neil B. Vanter 4/1/13
DATE

FIGURE EC-6



EROSION CONTROL MAT – STAPLE GUIDE



CITY OF WESTFIELD, INDIANA

Neil B. Vanter 4/1/14
DATE

FIGURE EC-3

PLANS ACCEPTED



Accepted

MAR 12 2018

Accepted By

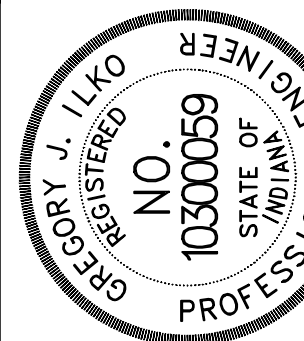
John Rankin



EROSION CONTROL DETAILS

LAVERNA LODGE - PARKING ADDITION

JOB NO.	DRAWN	CHECKED	TEN
	LMC		
DATE	DESIGNED	APPR.	GJI
JANUARY 31, 2018	MSK		

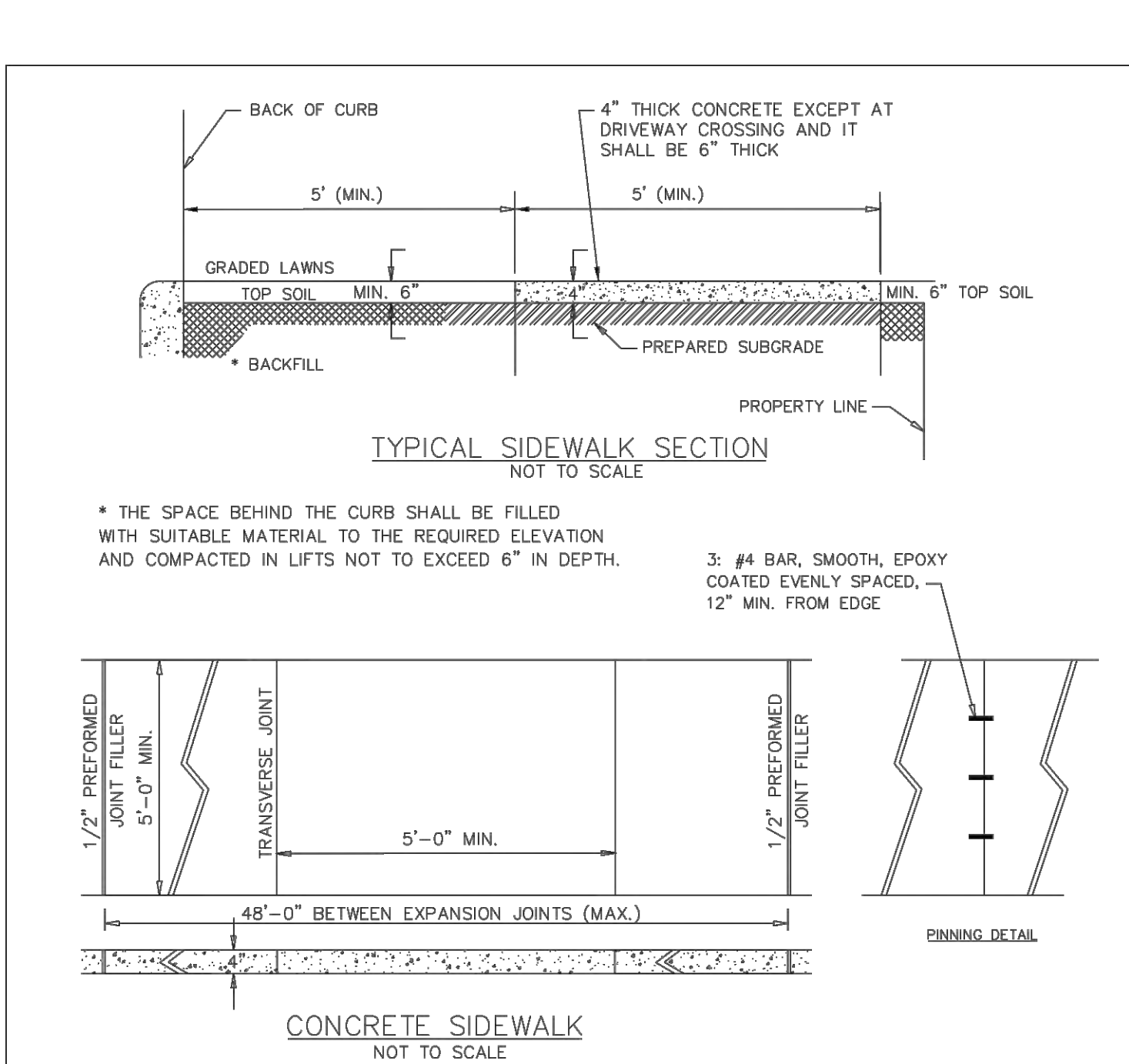


Gregory J. Ilko

NO.	DATE	REVISIONS	BY	APPR.
1	3-5-18	REVISIONS PER COMMENT LETTERS FROM WESTFIELD PLANNING AND ZONING, HCSS, AND WESTFIELD DPW	MSK	
2	3-9-18	ADDED NOTE #1 TO SHEET 300, ADDED STAGING AREA BOUNDARY AND REVISED CONSTRUCTION ENTRANCE HATCH ON SHEET 400	MSK	
3				
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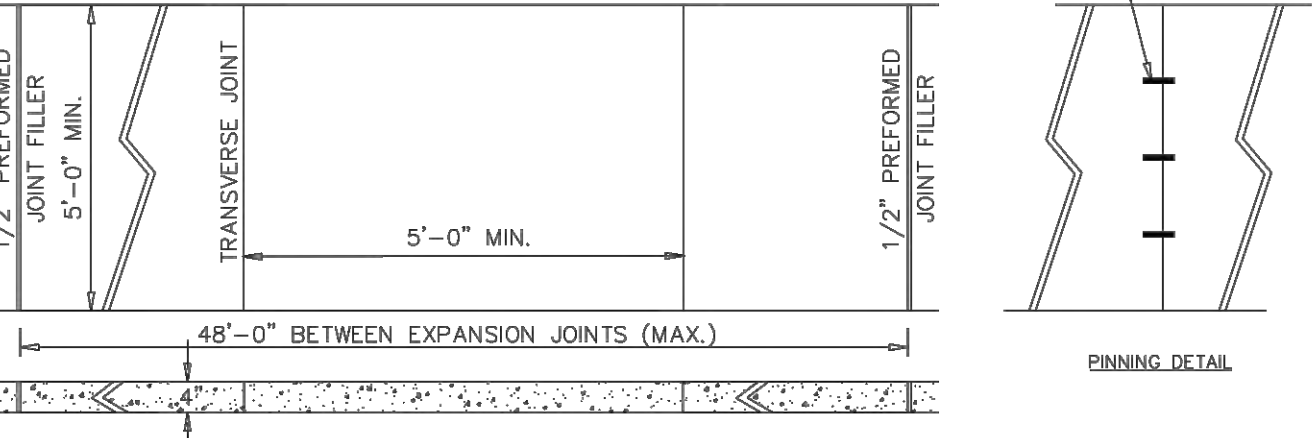
SHEET 401

DIRECTORY PATH : F:\Active\Gillette\Laverna Lodge\Design\CAD\Plans
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TYPICAL SIDEWALK SECTION
NOT TO SCALE

* THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LIFTS NOT TO EXCEED 6" IN DEPTH.



CONCRETE SIDEWALK
NOT TO SCALE

NOTES:
SUBGRADE UNDER ALL CURBS, SIDEWALKS, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH INDOT55 604. SIDEWALK SHALL BE PINNED AT DRIVEWAYS IN ACCORDANCE WITH WSS 2505.

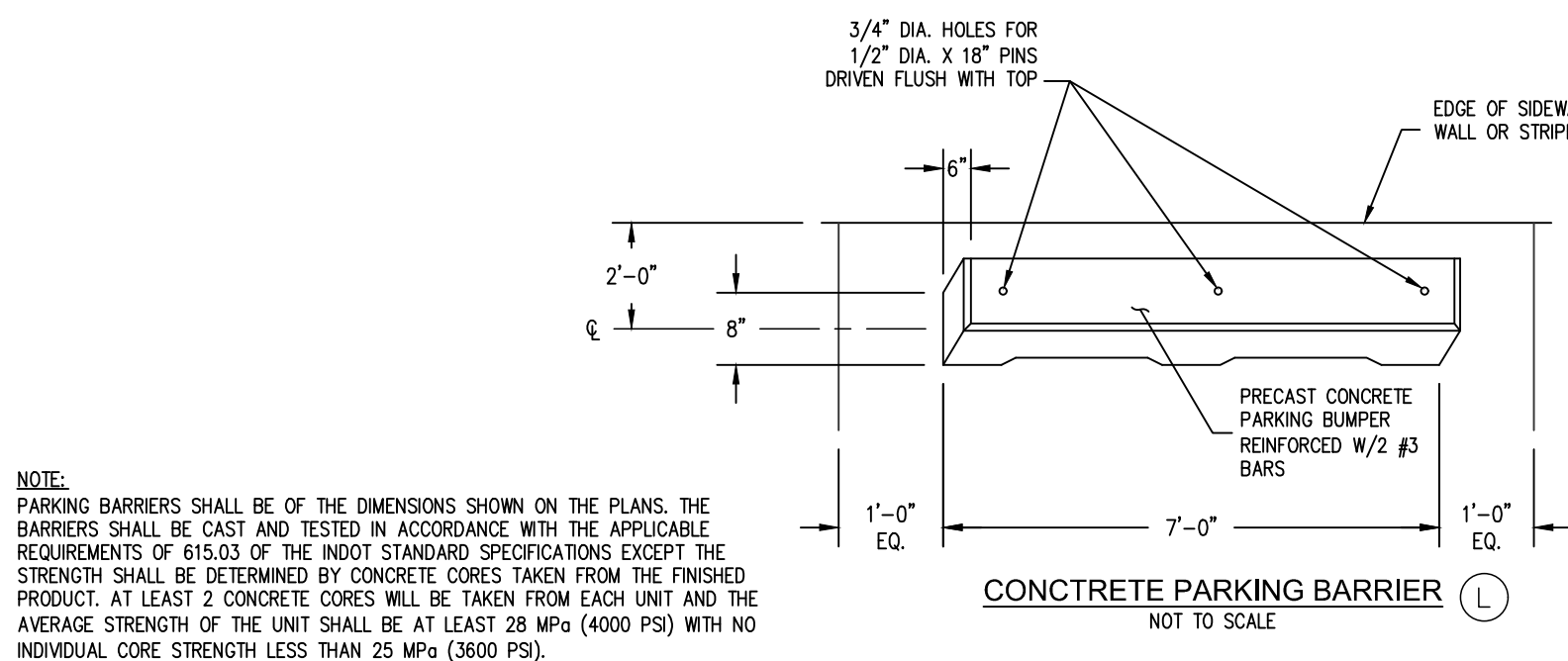
① SIDEWALK DETAILS

CITY OF WESTFIELD, INDIANA



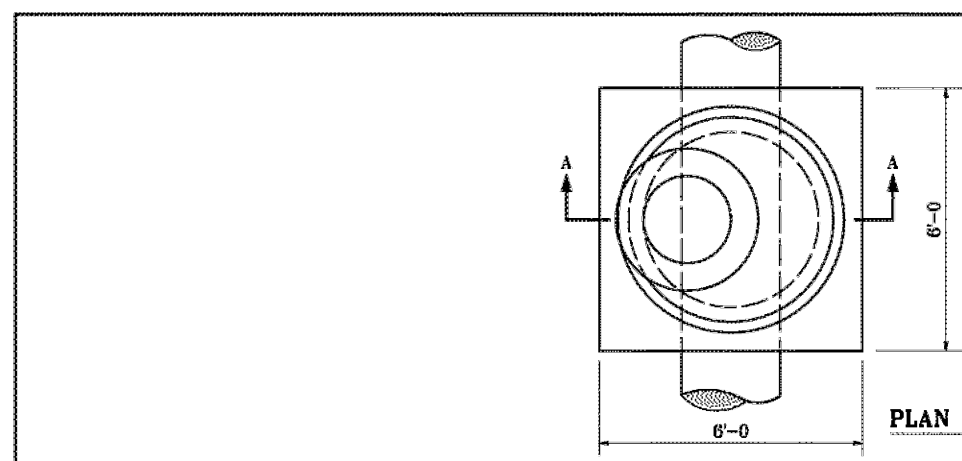
2/10/17 DATE

FIGURE 2500-010

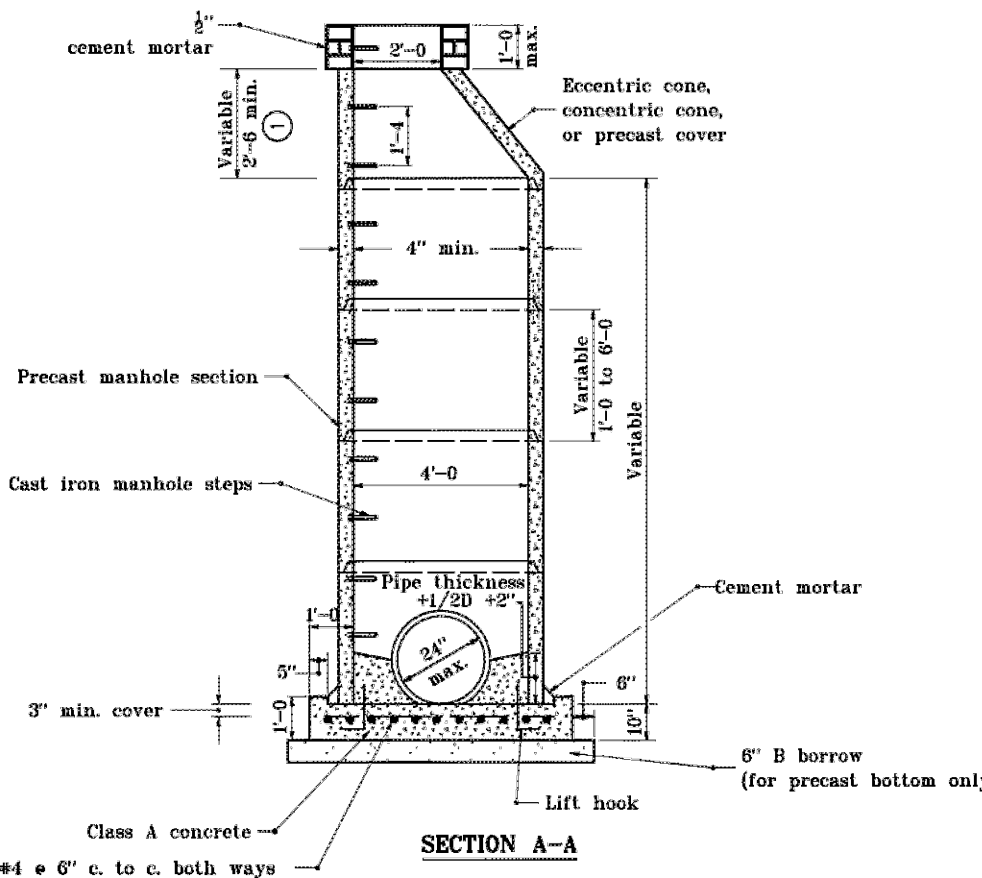


CONCRETE PARKING BARRIER
NOT TO SCALE

NOTE:
PARKING BARRIERS SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS. THE BARRIERS SHALL BE CAST AND TESTED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF 615.03 OF THE INDOT STANDARD SPECIFICATIONS EXCEPT THE STRENGTH SHALL BE DETERMINED BY CONCRETE CORES TAKEN FROM THE FINISHED PRODUCT. AT LEAST 2 CONCRETE CORES WILL BE TAKEN FROM EACH UNIT AND THE AVERAGE STRENGTH OF THE UNIT SHALL BE AT LEAST 28 MPa (4000 PSI) WITH NO INDIVIDUAL CORE STRENGTH LESS THAN 25 MPa (3600 PSI).

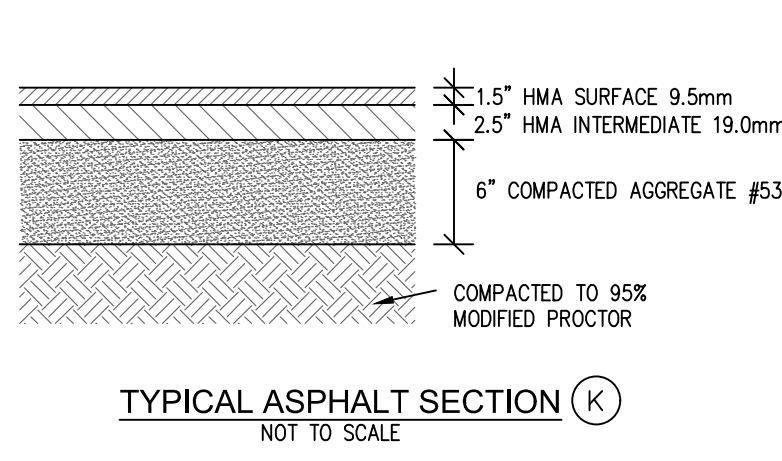
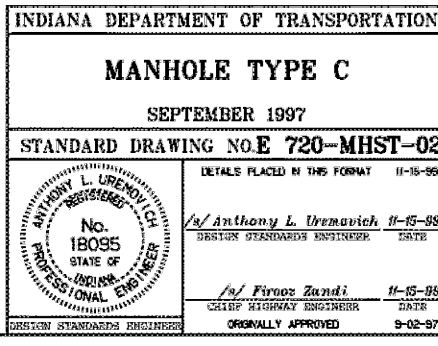


PLAN VIEW

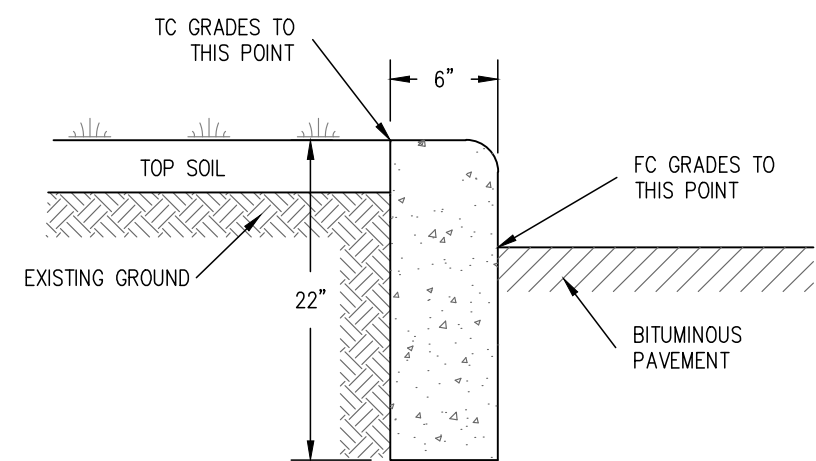


SECTION A-A

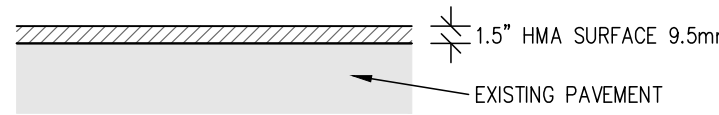
GENERAL NOTES
① For eccentric and concentric cone brightline cone heights table on Standard Drawing E 720-MHST-08.



TYPICAL ASPHALT SECTION (K)
NOT TO SCALE



STRAIGHT CONCRETE CURB (C)
NOT TO SCALE



TYPICAL MILL AND OVERLAY SECTION (R)
NOT TO SCALE

EARTHWORK

1. SCOPE OF WORK

- EXTENT: THE WORK REQUIRED UNDER THIS SECTION CONSISTS OF ALL EXCAVATING, FILLING, ROUGH GRADING AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY IN WRITING THE OWNER AND THE ENGINEER OF ANY CHANGES, ERRORS OR OMISSIONS FOUND ON THE PLANS OR IN THE FIELD, BEFORE WORK IS STARTED OR RESUMED.
- GENERAL: THE ITEMS OF WORK TO BE PERFORMED UNDER THIS SECTION SHALL INCLUDE CLEARING AND GRUBBING, REMOVAL OF TREES AND STUMPS, STRIPPING AND STORAGE OF TOPSOIL, FILL COMPACTION AND ROUGH GRADING OF ENTIRE SITE. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED IN PLANS OR DIRECTED BY THE OWNER.
- EXCAVATED MATERIAL THAT IS SUITABLE MAY BE USED FOR FILLS. ALL UNSUITABLE MATERIAL AND ALL SURPLUS EXCAVATED MATERIAL NOT REQUIRED SHALL BE REMOVED FROM THE SITE. THE LOCATION OF DUMP AND LENGTH OF HAUL SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE AND PLACE ANY ADDITIONAL FILL MATERIAL FROM OFF THE SITE AS MAY BE NECESSARY TO PRODUCE THE GRADES REQUIRED. FILL OBTAINED FROM OFF SITE SHALL BE OF KIND AND QUALITY AS SPECIFIED FOR FILLS HEREIN AND THE SOURCE APPROVED BY THE OWNER.
- THE CONTRACTOR SHALL ACCEPT THE SITE AS HE FINDS IT AND SHALL REMOVE ALL TRASH, RUBBISH AND DEBRIS FROM THE SITE PRIOR TO STARTING EXCAVATION.

2. BENCHMARK

- MAINTAIN CAREFULLY ALL BENCH MARKS, MONUMENTS AND OTHER REFERENCE POINTS; IF DISTURBED OR DESTROYED, CONTRACTOR SHALL CONTACT ENGINEER.

3. REMOVAL OF TREES

- THE INTEGRITY OF THE TOPOGRAPHIC FEATURES (INCLUDING TREES) SHALL BE PRESERVED AS MUCH AS POSSIBLE. THE CONTRACTOR SHALL COORDINATE WITH OWNER AND/OR ENGINEER PRIOR TO CLEARING THE SITE FOR CONSTRUCTION.
- ALL BRUSH, STUMPS, WOOD AND OTHER REFUSE FROM THE TREES REMOVED SHALL BE HAULED TO DISPOSAL AREAS OFF OF THE SITE. DISPOSAL BY BURNING SHALL NOT BE PERMITTED UNLESS PROPER PERMITS ARE OBTAINED (WHERE APPLICABLE).

4. HANDLING OF TOPSOIL

- REMOVE ALL ORGANIC MATERIAL FROM THE AREAS TO BE OCCUPIED BY BUILDINGS, ROADS, WALKS AND PARKING AREAS. PILE AND STORE TOPSOIL AT A LOCATION WHERE IT WILL NOT INTERFERE WITH CONSTRUCTION OPERATIONS. TOPSOIL SHALL BE REASONABLE FREE FROM SUBSOIL, DEBRIS, WEEDS, GRASS, STONES, ETC.
- AFTER COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOPSOIL SHALL BE REPLACED IN AREAS DESIGNATED ON THE EROSION CONTROL PLAN FOR SEEDING AND/OR SOODING. ANY REMAINING TOPSOIL SHALL BE USED FOR FINISHED GRADING AROUND STRUCTURES AND LANDSCAPING AREAS.

5. DISPOSITION OF UTILITIES

- RULES AND REGULATIONS GOVERNING THE RESPECTIVE UTILITIES SHALL BE OBSERVED IN EXECUTING ALL WORK UNDER THIS SECTION.
- IF ACTIVE UTILITIES ARE ENCOUNTERED BUT NOT SHOWN ON THE DRAWINGS, THE ENGINEER SHALL BE ADVISED BEFORE WORK IS CONTINUED.
- INACTIVE AND ABANDONED UTILITIES ENCOUNTERED IN EXCAVATING AND GRADING OPERATIONS SHALL BE REPORTED TO THE ENGINEER. THEY SHALL BE REMOVED, PLUGGED OR CAPPED AS DIRECTED BY THE UTILITY COMPANY OR THE ENGINEER.
- IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO VERIFY ALL EXISTING UTILITIES AND CONDITIONS PERTAINING TO HIS PHASE OF THE WORK. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNERS OF THE VARIOUS UTILITIES BEFORE WORK IS STARTED.

6. SITE GRADING

- GRADES: CONTRACTOR SHALL PERFORM ALL CUTTING, FILLING, COMPACTING OF FILLS AND ROUGH GRADING REQUIRED TO BRING ENTIRE PROJECT AREA TO GRADE AS SHOWN ON THE DRAWINGS.
- ROUGH GRADING: THE TOLERANCE FOR PAVED AREAS SHALL NOT EXCEED 0.10 FEET PLUS OR MINUS ABOVE THE ESTABLISHED SUBGRADE. ALL OTHER AREAS SHALL NOT EXCEED 0.10 FEET PLUS OR MINUS THE ESTABLISHED GRADE. ALL BANKS AND OTHER BREAKS IN GRADE SHALL BE ROUNDED AT THE TOP AND BOTTOM.
- COMPACTION REQUIREMENTS:
 - ALL BUILDING PAD AREAS SHALL BE COMPACTED TO STANDARDS SPECIFIED BY LOCAL AND/OR STATE BUILDING CODES.
 - COMPACTION REQUIREMENTS OF PAVED AREAS SHALL BE 95% OF MAXIMUM DRY DENSITY.

7. EARTH WORK BALANCE

- THE CONTRACTOR SHALL CONFIRM ALL EARTHWORK QUANTITIES PRIOR TO START OF CONSTRUCTION. IF AN EXCESS OR SHORTAGE OF EARTH IS ENCOUNTERED, THE CONTRACTOR SHALL CONFIRM WITH THE OWNER AND ENGINEER THE REQUIREMENTS FOR STOCKPILING, REMOVAL OR IMPORTING OF EARTH.
- MINOR ADJUSTMENTS TO THE GRADES MAY BE REQUIRED TO EARTHWORK BALANCES WHEN MINOR EXCESS MATERIAL OR SHORTAGES ARE ENCOUNTERED. IT IS RECOGNIZED BY THE PARTIES HERETO THAT THE CALCULATIONS OF THE ENGINEER IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARDS FOR SUCH CALCULATIONS. FURTHER, THAT THESE CALCULATIONS ARE SUBJECT TO THE INTERPRETATIONS OF SOIL BORINGS AS THE PHYSICAL LIMITS IN FINISH GRADE AND COMPACTION PERMITTED. THE CONTRACTOR, THROUGH THESE PARAMETERS MAY CAUSE EITHER AN EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS TO COMPLETE THE PROJECT. IF SUCH AN ACTUAL MINOR EXCESS OR SHORTAGE OF ACTUAL EARTHWORK MATERIALS OCCURS, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO DETERMINE IF ADJUSTMENTS CAN BE MADE TO CORRECT THE IMBALANCE OF EARTH.

STREETS

1. SCOPE OF WORK

- THE WORK REQUIRED UNDER THIS SECTION INCLUDES ALL CONCRETE AND BITUMINOUS PAVING AND RELATED ITEMS NECESSARY TO COMPLETE THE WORK INDICATED ON THE DRAWINGS AND DESCRIBED IN THE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO:
 - ALL STREETS, PARKING AREAS WITHIN THE CONTRACT LIMITS.
 - CURBS AND CONCRETE RAMPS
 - SIDEWALKS AND CONCRETE SLABS
 - IN THE CASE OF ANY CONFLICTS WITH THESE SPECIFICATIONS AND LOCAL, STATE, FEDERAL SPECIFICATIONS THE MORE STRINGENT SHALL APPLY.
- IN THE CASE OF ANY CONFLICTS WITH THESE SPECIFICATIONS AND LOCAL, STATE, FEDERAL SPECIFICATIONS THE MORE STRINGENT SHALL APPLY.

2. PAVEMENT CONSTRUCTION

- ALL STREET CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND CONFORM TO THE MINIMUM STANDARDS OF THE HAMILTON COUNTY PLANNING AND HIGHWAY DEPARTMENTS, AND IF THERE ARE AREAS UNDEFINED USE THE CURRENT INDOT STANDARDS SPECIFICATIONS, AS REVISED.
- FLEXIBLE PAVEMENT
 - MATERIALS
 - GENERAL: USE LOCALLY AVAILABLE MATERIALS AND GRADATIONS WHICH EXHIBIT A SATISFACTORY RECORD OF PREVIOUS INSTALLATIONS.
 - COMPACTED AGGREGATE: BASE: SOUND, ANGULAR, CRUSHED LESTONESTONE, CRUSHED OR UNCRUSHED GRAVEL OR CRUSHED OR PROCESSED AIR-COOLED BLAST FURNACE SLAG. COURSE AGGREGATE SHALL BE CLASS A, TYPE "0" AND CONFORM TO INDOT.T. STANDARD SPECIFICATIONS SECTION 903.
 - BASE COURSE: AGGREGATE: SOUND, ANGULAR CRUSHED STONE, CRUSHED OR UNCRUSHED GRAVEL OR CRUSHED SLAG, SAND, STONE, OR SLAG SCREENINGS. COARSE AGGREGATES SHALL BE CLASS A OR B AND CONFORM TO INDOT.T. STANDARDS SPECIFICATIONS SECTION 903.
 - COARSE AGGREGATE FOR SURFACE AND BINDER MIXTURES: CRUSHED STONE, CRUSHED GRAVEL, CRUSHED SLAG, AND SHARP EDGED NATURAL SAND. SURFACE COURSE AGGREGATES SHALL BE CLASS A AND CONFORM TO INDOT.T. STANDARD SPECIFICATIONS SECTION 903.
 - ASPHALT CEMENT: PETROLEUM ASPHALT CEMENT, AP 5 WITH PENETRATION OF 60-70 OR VISCOSITY GRADED ASPHALT CEMENT AC-20 CONFORMING TO INDOT.T. STANDARD SPECIFICATIONS SECTION 903.
 - PRIME COAT: MEDIUM-CURE LIQUID ASPHALT OR ASPHALT EMULSION CONFORMING TO INDOT.T. STANDARD SPECIFICATIONS SECTION 408.
 - TACK COAT: RAPID-CURE LIQUID ASPHALT OR ASPHALT EMULSION CONFORMING TO INDOT.T. STANDARD SPECIFICATIONS SECTION 408.
 - LANE MARKING PAINT: CHLORINATED RUBBER-ALKYD TYPE, AASHTO M248 (FS TT-P-115), TYPE III.
 - SEAL COAT: (NOT APPLICABLE IN HAMILTON COUNTY)

3. ASPHALT-AGGREGATE MIXTURE

- ALL BITUMINOUS MIXTURES ARE TO CONFORM TO CURRENT INDOT.T. SPECIFICATIONS
 - SURFACE COURSE: HMA SURFACE 9.5mm
 - BINDER COURSE: HMA INTERMEDIATE 19.0mm
 - BASE COURSE: TYPE: HMA BASE 25.0mm
- APPROVED A JOB MIX FORMULA FOR EACH TYPE OF ASPHALT PRIOR TO THE BEGINNING OF THE CONSTRUCTION PROJECT.

4. SURFACE PREPARATION

- REMOVE LOOSE MATERIAL FROM COMPACTED SUBBASE SURFACE IMMEDIATELY BEFORE APPLYING PRIME COAT.
 - PROOF ROLL SUBGRADE SURFACE WITH LOADED TRI-AXLE TRUCK (48 HOUR NOTICE IS REQUIRED TO BE GIVEN TO THE HAMILTON COUNTY HIGHWAY DEPT.) TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.
 - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND RECEIVED APPROVAL IN WRITING BY THE ARCHITECT/ENGINEER.
- AGGREGATE BASE: AFTER PLACEMENT, PROOF ROLL COMPACTED AGGREGATE BASE SURFACE TO CHECK FOR UNSTABLE AREAS AND AREAS REQUIRING ADDITIONAL COMPACTION.
 - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT AGGREGATE BASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
- REMOVE LOOSE MATERIAL FROM COMPACTED AGGREGATE BASE SURFACE IMMEDIATELY BEFORE APPLYING PRIME COAT.

5. PLACING THE MIX

- GENERAL: PLACE BITUMINOUS AGGREGATE MIXTURE ON PREPARED SURFACE, SPREAD AND STRIKE-OFF. SPREAD MIXTURE AT MINIMUM TEMPERATURE OF 225 DEGREES F (107 DEGREES C). PLACE INACCESSIBLE AND SMALL AREAS BY HAND. PLACE EACH COURSE TO REQUIRED GRADE, CROSS-SECTION, AND COMPACTED THICKNESS.
- BASE COURSE, COMPACTED AGGREGATE: SPREAD AND COMPACT IN TWO LIFTS AS FOLLOWS:
 - FIRST LIFT: 4" MIN. SHALL BE A MINIMUM OF 4" OR 1/2 THE TOTAL DEPTH OF AGGREGATE. EXTEND THE FIRST LIFT 4" OR A DISTANCE EQUAL TO THE DEPTH OF THE LIFT BEYOND THE SECOND LIFT.
 - SECOND LIFT: SIZE NO. 53
- PRIME COAT: SUBBASE SURFACE SHALL BE PRIMED IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS.
- HOT ASPHALT CONCRETE BINDER COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTHS INDICATED ON DETAILS.
- TACK COAT: BINDER COURSE SHALL BE TACKED PRIOR TO THE INSTALLATION OF THE SURFACE COURSE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF SECTION 409 OF INDOT.T. STANDARD SPECIFICATIONS.
- SURFACE COURSE: SPREAD AND ROLL TO MINIMUM FINISH DEPTH INDICATED ON DETAILS. FINISH ELEVATION SHALL BE TRUE TO LINE AND GRADE WITHIN 1/2" OF TRUE ELEVATIONS.
- PAVER PLACING: PLACE IN STRIPS NOT LESS THAN 12" WIDE, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT/ENGINEER. AFTER FIRST STRIP HAS BEEN PLACED AND ROLLED, PLACE SUCCEEDING STRIPS AND EXTEND ROLLING TO OVERLAP PREVIOUS STRIPS. COMPLETE BINDER COURSE FOR A SECTION BEFORE PLACING SURFACE COURSE.
- JOINTS: MAKE JOINTS BETWEEN OLD AND NEW PAVEMENTS, OR BETWEEN PAVER PASSES, OR BETWEEN SUCCEEDING DAYS WORK, TO ENSURE CONTINUOUS BOND BETWEEN ADJOINING WORK. CONSTRUCT JOINTS TO HAVE SAME TEXTURE, DENSITY AND SMOOTHNESS AS OTHER SECTIONS. CLEAN CONTACT SURFACES AND APPLY TACK COAT.

6. ROLLING

- GENERAL: BEGIN ROLLING WHEN MIXTURE WILL BEAR ROLLER WEIGHT WITHOUT EXCESSIVE DISPLACEMENT.
 - COMPACT MIXTURE WITH HOT HAND TAMPERS OR VIBRATING PLATE COMPACTORS IN AREAS INACCESSIBLE TO ROLLERS.
- BREAKDOWN ROLLING: ACCOMPLISH BREAKDOWN OR INITIAL ROLLING IMMEDIATELY FOLLOWING ROLLING OF JOINTS AND OUTSIDE EDGE. CHECK SURFACE AFTER BREAKDOWN ROLLING, AND REPAIR DISPLACED AREAS BY LOOSENING AND FILLING, IF REQUIRED, WITH HOT MATERIAL.
- SECOND ROLLING: FOLLOW BREAKDOWN ROLLING AS SOON AS POSSIBLE, WHICH MIXTURE IS HOT. CONTINUE SECOND ROLLING UNTIL MIXTURE HAS BEEN THOROUGHLY COMPACTED.
- FINISH ROLLING: PERFORM FINISH ROLLING WHILE MIXTURE IS STILL WARM ENOUGH FOR REMOVAL OF ROLLER MARKS. CONTINUE ROLLING UNTIL ROLLER MARKS ARE ELIMINATED AND COURSE HAS ATTAINED MAXIMUM DENSITY.
- MAINTENANCE: REMOVE AND REPLACE PAVING AREAS MIXED WITH FOREIGN MATERIALS AND DEFECTIVE AREAS. CUT OUT SUCH AREAS AND FILL WITH FRESH, HOT BITUMINOUS AGGREGATE MIX. COMPACT BY ROLLING TO MAXIMUM SURFACE DENSITY AND SMOOTHNESS.
- PROTECTION: AFTER FINAL ROLLING, DO NOT PERMIT VEHICULAR TRAFFIC ON PAVED UNTIL IT HAS COOLED AND HARDENED.
- ERECT BARRICADES TO PROTECT PAVING FROM TRAFFIC UNTIL MIXTURE HAS COOLED ENOUGH NOT TO BECOME MARKED.
- SEAL COAT: (NOT APPLICABLE IN HAMILTON COUNTY)

7. TRAFFIC AND LANE MARKINGS

- CLEANING: SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL AND DUST.
- STRIPPING: USE CHLORINATED RUBBER BASE TRAFFIC LANE-MARKING PAINT, FACTORY MIXED, QUICK-DRYING, AND NON-BLEEDING.
 - COLOR: YELLOW
 - DO NOT APPLY TRAFFIC AND LANE MARKING PAINT UNTIL LAYOUT AND PLACEMENT HAS BEEN VERIFIED WITH ARCHITECT/ENGINEER.
- APPLY PAINT WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. APPLY IN TWO COATS AT MANUFACTURER'S RECOMMENDED RATES.

8. FIELD QUALITY CONTROL

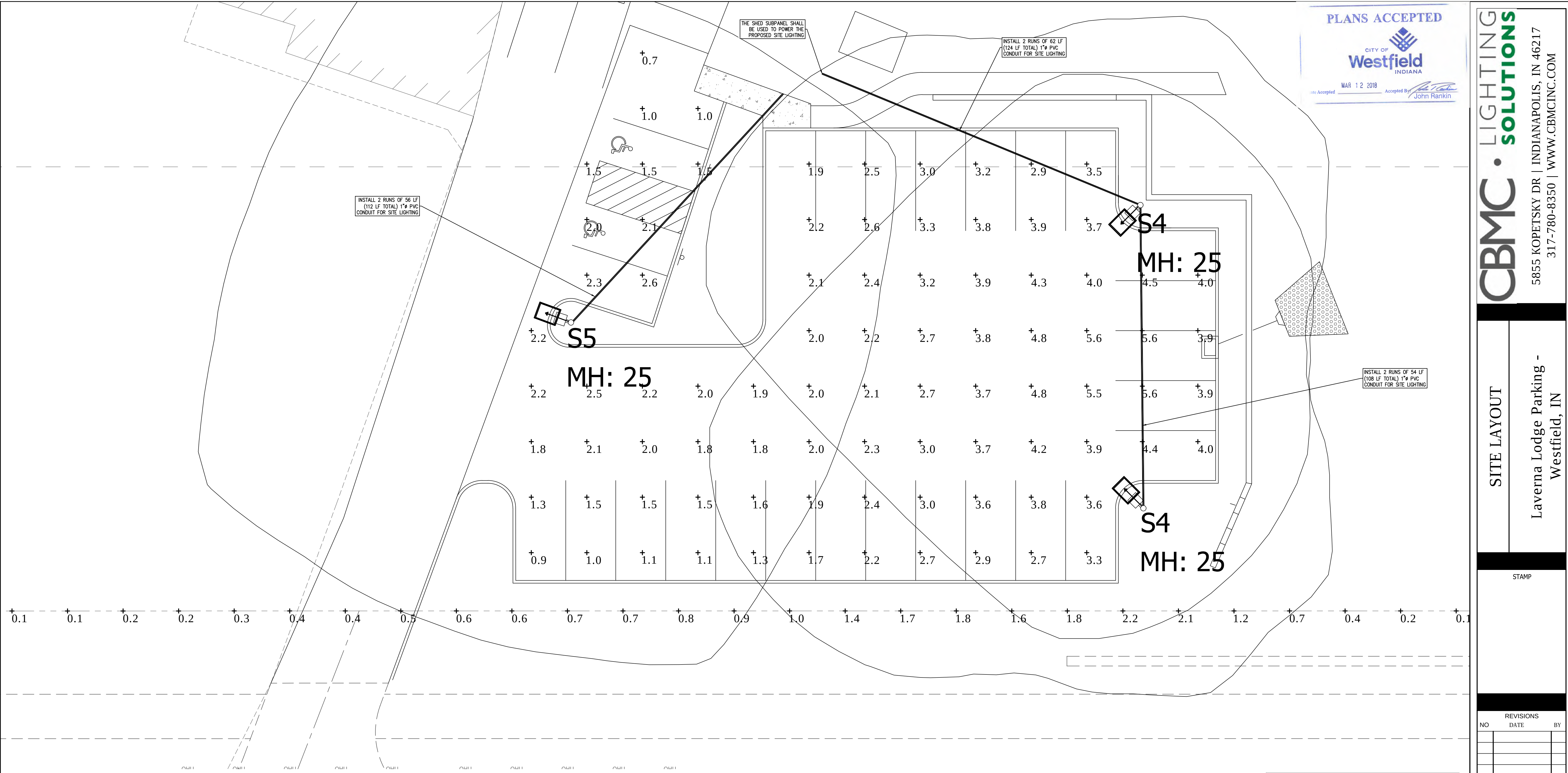
- TESTING AND INSPECTION SERVICE:
 - OWNER SHALL EMPLOY A TESTING LABORATORY TO PERFORM PAVEMENT TESTING AND INSPECTION SERVICE FOR QUALITY CONTROL DURING PAVING OPERATIONS.
 - TESTING SERVICE SHALL HAVE REPRESENTATIVE PRESENT TO OBSERVE AND PERFORM TESTS AT ALL TIMES PAVING WORK IS IN PROGRESS.
- GENERAL: TESTING SERVICE REPRESENTATIVE SHALL TAKE A MINIMUM OF TWO SAMPLES PER LIFT OF BITUMINOUS AGGREGATE MIX EACH DAY BEFORE PAVING OPERATION. LABORATORY TEST SHALL BE PERFORMED ON THESE SAMPLES TO DETERMINE AGGREGATE GRADATION AND ASPHALT CONTENT.
 - TEST IN-PLACE COMPACTED BITUMINOUS AGGREGATE MIX COURSES FOR COMPLIANCE WITH REQUIREMENTS FOR THICKNESS, DENSITY AND AIR VOIDS AND SURFACE SMOOTHNESS. REPAIR OR REMOVE AND REPLACE UNSATISFACTORY PAVING AS DIRECTED BY ENGINEER.
 - A TEST SECTION AT A MINIMUM SIZE OF 100'X12' SHALL BE PLACED AT A LOCATION AS DIRECTED BY THE COUNTY PRIOR TO FULL PRODUCTION FOR EACH TYPE OF MIX. THE TEST SECTION SHALL BE COMPACTED TO DETERMINE A TARGET DENSITY FOR THE REMAINDER OF THE PAVEMENT.
- THICKNESS: IN-PLACE COMPACTED THICKNESS WILL NOT BE ACCEPTABLE IF EXCEEDING FOLLOWING ALLOWABLE VARIATION FROM REQUIRED THICKNESS:

AGGREGATE BASE COURSE: 1/2", PLUS OR MINUS
BASE COURSE: 1/2", PLUS OR MINUS
BINDER COURSE: 1/2", PLUS OR MINUS
SURFACE COURSE: 1/2", PLUS OR MINUS

 - A MINIMUM OF TWO PAVEMENT CORES PER COMPACTED LIFT SHALL BE TAKEN. CORES ARE TO BE TAKEN AT LOCATIONS AND AT TIMES OF DAY AS DIRECTED BY THE TESTING SERVICE. THE FOLLOWING TESTS SHALL BE PERFORMED BY THE TESTING SERVICE, ON EACH PAVEMENT CORE:
 - A TEST SECTION AT A MINIMUM SIZE OF 100'X12' SHALL BE PLACED AT A LOCATION AS DIRECTED BY THE COUNTY PRIOR TO FULL PRODUCTION FOR EACH TYPE OF MIX. THE TEST SECTION SHALL BE COMPACTED TO DETERMINE A TARGET DENSITY OF THE REMAINDER OF THE PAVEMENT.
- PAVEMENT THICKNESS
 - DENSITY
 - AIR VOIDS
 - TESTING SERVICE SHALL SUBMIT CERTIFIED RESULTS TO THE OWNER AND ARCHITECT/ENGINEER WITHIN 72 HOURS AFTER TESTS ARE MADE, WITH THEIR COMMENTS AND RECOMMENDATIONS FOR ACTION.
 - PAVEMENT WHICH FAILS TO COMPLY WITH APPROVED JOB MIX FORMULA SHALL BE REPLACED AS DIRECTED BY THE ARCHITECT/ENGINEER.

- SURFACE SMOOTHNESS: TEST FINISHED SURFACE FOR SMOOTHNESS, USING 1/2" STRAIGHTEDGE APPLIED PARALLEL WITH, AND AT RIGHT ANGLES TO CENTERLINE OF PAVED AREA. SURFACE WILL NOT BE ACCEPTABLE IF EXCEEDING THE FOLLOWING TOLERANCES FOR SMOOTHNESS:

AGGREGATE BASE COURSE SURFACE: 1/4"
BASE COURSE SURFACE: 1/4"
BINDER COURSE SURFACE: 1/8"
FINISH COURSE SURFACE: 1/8"
- OTHER SURFACE AREAS AT INTERVALS AS DIRECTED BY TESTING SERVICE.
- DENSITY TESTS: DENSITY TESTS SHALL BE MADE AT EACH LIFT. TEST SHALL BE AS FOLLOWS:
 - TESTS WILL BE REQUIRED AT VARIOUS TIMES AND LOCATIONS FOR SUBGRADE AND BASE COURSES FOR ASPHALT PAVING AREAS.
- TESTING SERVICE SHALL SUBMIT CERTIFIED RESULTS TO THE OWNER AND ENGINEER WITHIN 72 HOURS AFTER TESTS ARE MADE WITH THEIR COMMENTS AND RECOMMENDATIONS FOR ACTION.
- UTILITY STRUCTURES: CHECK FOR CORRECT ELEVATION OF ALL MANHOLE COVERS, WALK BOXES AND OTHER STRUCTURES LOCATED WITHIN AREAS TO BE PAVED, AND MAKE, OR HAVE MADE, ANY NECESSARY ADJUSTMENTS IN SUCH STRUCTURES.
- PLACING CONCRETE:
 - SUBGRADE: PLACE CONCRETE ONLY ON A MOIST, COMPACTED SUBGRADE OR BASE FREE FROM LOOSE MATERIAL. PLACE ON A MOIST OR PROOEN SUBGRADE.
 - FORMS: ALL FORMS SHALL BE FREE FROM WARP, TIGHT ENOUGH TO PREVENT LEAKAGE AND SUBSTANTIAL ENOUGH TO MAINTAIN THEIR SHAPE AND POSITION WITHOUT SPRINGING OR SETTING. FORMS SHALL BE CLEAN AND BRUSHED IMMEDIATELY BEFORE CONCRETING.
 - PLACING CONCRETE: CONCRETE SHALL BE DEPOSITED SO AS TO REQUIRE AS LITTLE REBARKING AS PRACTICABLE. WHEN CONCRETE IS TO BE PLACED AT AN INCREASING ELEVATION OF 15 FEET OR LESS, PARABOLIC TIPS OF THE INDOT.T. SPECIFICATIONS LATEST REVISIONS SHALL BE FOLLOWED.
 - SEE SITE GRADING, UNDER THE "EARTHWORK" SECTION FOR ADDITIONAL COMPACTION REQUIREMENTS.
- APPLICATION:
 - GRADING: DO ANY NECESSARY GRADING IN ADDITION TO THAT PERFORMED IN ACCORDANCE WITH EARTHWORK SECTION TO BRING SUBGRADES, AFTER FINAL COMPACTION, TO THE REQUIRED GRADES AND SECTIONS FOR SITE IMPROVEMENTS.
 - PREPARATION OF SUBGRADE: REMOVE SPOTS AND OTHERS UNSUITABLE MATERIAL AND REPLACE WITH STABLE MATERIAL. NO TRAFFIC WILL BE ALLOWED ON PREPARED SURFACE PRIOR TO PAVING.
 - COMPACTION OF SUBGRADE: THE FIRST 6 INCHES BELOW THE SUBGRADE SHALL BE COMPACTED TO AT LEAST 100% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE PROCEEDS OF ASTM 1-96. WATER SHALL BE PREVENTED FROM STANDING ON THE COMPACTED SURFACE.
 - UTILITY STRUCTURES: CHECK FOR CORRECT ELEVATION OF ALL MANHOLE COVERS, WALK BOXES AND OTHER STRUCTURES LOCATED WITHIN AREAS TO BE PAVED, AND MAKE, OR HAVE MADE, ANY NECESSARY ADJUSTMENTS IN SUCH STRUCTURES.
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| Luminaire Schedule | | | | | | | |
|--------------------|-----|-------|-------------|-------------|-------|------------|-------------------|
| Symbol | Qty | Label | Arrangement | Lum. Lumens | LLF | Lum. Watts | Description |
| | 2 | S4 | SINGLE | 18858 | 0.900 | 154.1 | XALM-FT-LED-SS-50 |
| | 1 | S5 | SINGLE | 19050 | 0.900 | 156 | XALM-5W-LED-SS-50 |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Parking Lot Exp | Illuminance | Fc | 2.74 | 5.6 | 0.7 | 3.91 | 8.00 |
| R-W Line | Illuminance | Fc | 0.41 | 2.2 | 0.0 | N.A. | N.A. |



National Lighting Vendor:
For pricing and technical assistance contact:
Russ Miller of CBMC INC, tel# 317-697-7510,
rmiller@cbmcinc.com

| PHOTOMETRIC NOTES | |
|---------------------------|---------|
| MOUNTING HEIGHT | 25' |
| LIGHT LOSS FACTOR | 0.90 |
| REFLECTANCES | -- |
| FOOTCANDLES CALCULATED AT | @ GRADE |

Catalog # :
Prepared By :

Project :
Date :



Mirada - XALM
Outdoor LED Area Light

The Mirada's sleek design makes it perfectly-suited for architectural applications, while its cost-effective die-cast aluminum housing makes its acquisition cost very competitive. The Mirada offers high performance silicone optics, die cast aluminum housing, 35,000+ lumens and is available with integral wireless controls.

Features & Specifications

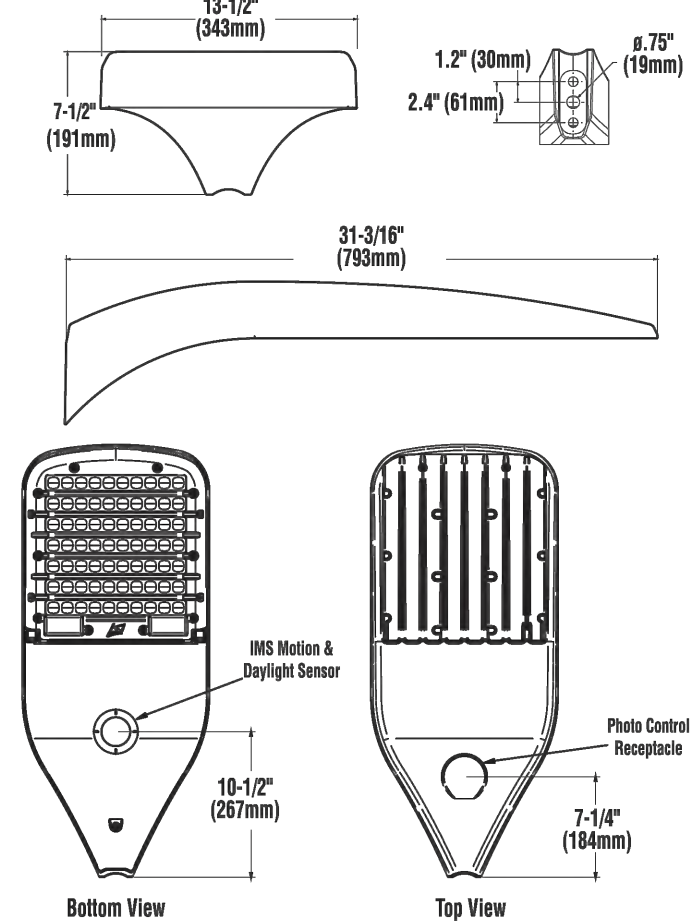
Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W and FT.
- Silicone optical material does not yellow or crack with age and provides a minimum light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K (+/- 275K) color temperatures.
- Minimum CRI of 70, 90CRI available, consult factory for lead time.
- Integral Louver (IL) option available for improved back-light control without sacrificing street side performance. See page 5 for more details.

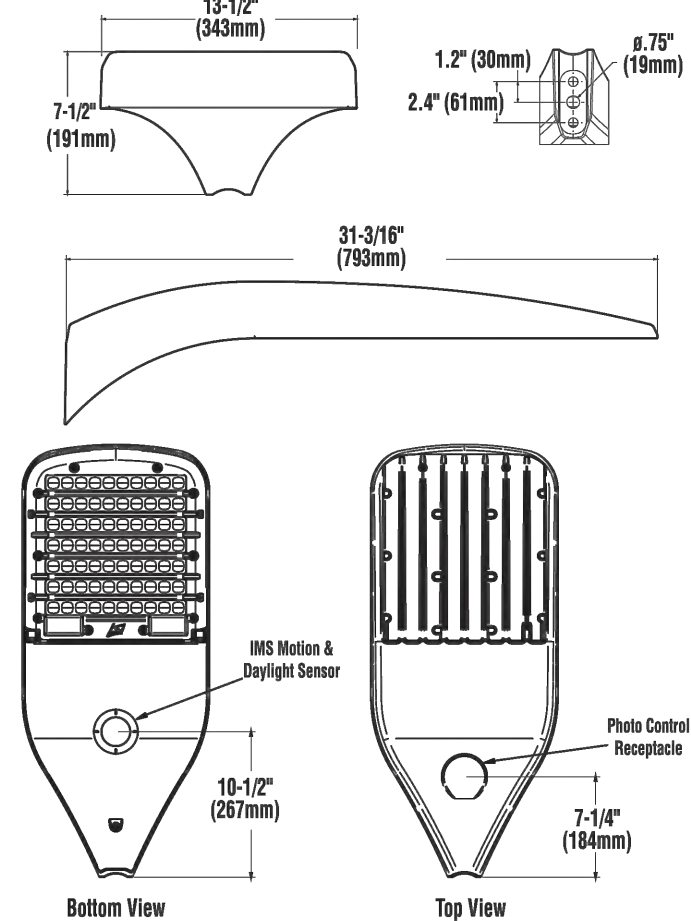
Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100% standard).
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L70 Calculated Life: >100K Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F)
- Power factor: > .90
- Input power stays constant over life.
- Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Terminal block provided accepts up to 10ga wire.
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

Product Dimensions



Bottom View



Top View

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Mirada - XALM
Outdoor LED Area Light

Features & Specifications (Cont.)

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to round or square poles without need for pole adaptors.
- Luminaire is proudly made in the U.S.
- IP66 rated luminaire protects integral components from harsh environments.
- 3G rated for ANSI C136.31 high vibration applications
- Fixtures are finished with LSI's DuraBright® polyester powder coat finishing process. The DuraDrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 30 lbs in carton.

Controls

- Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels (see page 6 for more details).
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 6 for more details)

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment for installing/ servicing.
- Included terminal block provides quick and easy on-site wiring.
- Utilizes LSI's traditional 3" drill pattern for easy fastening of LSI products. (See drawing on page 1)

Warranty

Listings

Performance

ELECTRICAL DATA*

| Lumens | 120V | 208V | 240V | 277V | 347V | 480V | Watts |
|--------|-------|-------|-------|-------|-------|-------|-------|
| SS | 1.29A | 0.75A | 0.65A | 0.56A | 0.45A | 0.32A | 155 |
| HO | 1.98A | 1.14A | 0.99A | 0.86A | 0.69A | 0.50A | 238 |
| VHO | 2.58A | 1.49A | 1.29A | 1.12A | 0.89A | 0.65A | 310 |

RECOMMENDED LUMEN MAINTENANCE†

| Ambient | Initial‡ | 25 hr‡ | 50 hr‡ | 75 hr‡ | 100 hr‡ |
|---------|----------|--------|--------|--------|---------|
| 0 C | 100.0 | 99.00 | 98.82 | 98.65 | 98.47 |
| 10 C | 100.0 | 99.03 | 98.62 | 98.22 | 97.82 |
| 20 C | 100.0 | 98.71 | 94.06 | 91.48 | 88.97 |
| 25 C | 100.0 | 92.74 | 86.49 | 80.67 | 75.24 |

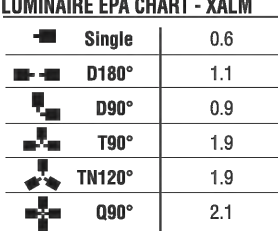
* Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

† Lumen maintenance values at 25C are calculated per TMA-21 based on LM-80 data and in-situ testing.

‡ In accordance with IESNA TM-21-11. Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.

§ In accordance with IESNA TM-21-11. Calculated Values represent time durations that exceed six times the IESNA LM-80-08 total test duration for the device under testing.

LUMINAIRE EPA CHART - XALM



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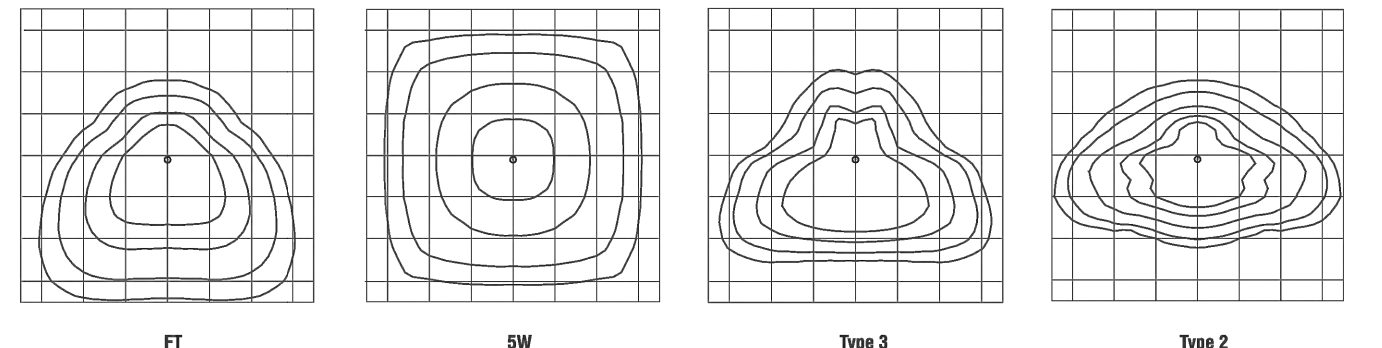
11/1/17



Mirada - XALM
Outdoor LED Area Light

Performance (Cont.)

All published luminaire photometric testing performed to IESNA LM-79 standards by NVLAP, certified laboratory. ISO footcandle plots below demonstrate the Mirada (XALM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.



DELIVERED LUMENS

| Output | Distribution Type | Delivered Lumens | 3000K | | 4000K | | 5000K | | Wattage | | |
|--------|-------------------|------------------|----------|------------|------------------|----------|------------------|----------|---------|----------|-----|
| | | | Efficacy | BUG Rating | Delivered Lumens | Efficacy | Delivered Lumens | Efficacy | | | |
| SS | 2 | 16488 | 107 | B3-U0-G3 | 19666 | 128 | B3-U0-G3 | 19665 | 129 | B3-U0-G3 | 154 |
| | 2-IL | 12162 | 78 | B2-U0-G2 | 13035 | 83 | B2-U0-G2 | 13035 | 83 | B2-U0-G2 | 154 |
| | 3 | 17563 | 114 | B2-U0-G3 | 18874 | 122 | B2-U0-G3 | 18874 | 122 | B2-U0-G3 | 154 |
| | 3-IL | 14552 | 94 | B1-U0-G3 | 15647 | 102 | B1-U0-G3 | 15647 | 102 | B1-U0-G3 | 154 |
| | FT | 15926 | 103 | B2-U0-G3 | 18858 | 122 | B3-U0-G3 | 18858 | 122 | B3-U0-G3 | 154 |
| | FT-IL | 12406 | 80 | B1-U0-G3 | 14362 | 93 | B2-U0-G3 | 14362 | 93 | B2-U0-G3 | 154 |
| HO | 5W | 17716 | 114 | B4-U0-G2 | 19050 | 122 | B4-U0-G2 | 19050 | 122 | B4-U0-G2 | 154 |
| | 2 | 24576 | 102 | B4-U0-G3 | 27148 | 113 | B4-U0-G3 | 28577 | 119 | B4-U0-G3 | 242 |
| | 2-IL | 18173 | 76 | B2-U0-G3 | 20087 | 84 | B2-U0-G3 | 21034 | 88 | B3-U0-G3 | 242 |
| | 3 | 24654 | 102 | B3-U0-G4 | 27520 | 114 | B3-U0-G4 | 28867 | 119 | B3-U0-G4 | 242 |
| | 3-IL | 20130 | 83 | B2-U0-G4 | 22471 | 93 | B2-U0-G4 | 23407 | 97 | B2-U0-G4 | 242 |
| | FT | 24973 | 104 | B3-U0-G4 | 27876 | 116 | B3-U0-G4 | 29037 | 120 | B3-U0-G4 | 242 |
| VHO | FT-IL | 18937 | 79 | B2-U0-G4 | 21139 | 88 | B2-U0-G4 | 22020 | 91 | B2-U0-G4 | 242 |
| | 5W | 25022 | 103 | B5-U0-G3 | 27932 | 114 | B5-U0-G3 | 29095 | 119 | B5-U0-G3 | 242 |
| | 2 | 29971 | 95 | B4-U0-G4 | 33108 | 104 | B4-U0-G4 | 34850 | 110 | B4-U0-G4 | 315 |
| | 2-IL | 21958 | 70 | B3-U2-G3 | 24283 | 77 | B3-U2-G3 | 25414 | 81 | B3-U2-G3 | 315 |
| | 3 | 30344 | 97 | B3-U0-G4 | 33872 | 108 | B3-U0-G4 | 35282 | 113 | B3-U0-G4 | 315 |
| | 3-IL | 25003 | 80 | B2-U0-G4 | 27910 | 89 | B2-U0-G4 | 29073 | 93 | B2-U0-G4 | 315 |
| | FT | 28742 | 91 | B3-U0-G4 | 32084 | 102 | B3-U0-G4 | 33421 | 106 | B3-U0-G4 | 315 |
| | FT-IL | 22382 | 71 | B2-U0-G4 | 24885 | 79 | B3-U0-G4 | 26026 | 83 | B3-U0-G4 | 315 |
| | 5W | 30756 | 97 | B5-U0-G4 | 34332 | 108 | B5-U0-G4 | 35268 | 111 | B5-U0-G4 | 315 |

*LED Chips are frequently updated therefore values may increase.

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Mirada - XALM
Outdoor LED Area Light

Ordering Guide

TYPICAL ORDER EXAMPLE:

XALM FT LED HO 40 UE BRZ ALSCL

| Luminaire Profile | Distribution | Light Source | Lumen Package* | Color Temp | Voltage | Finish | Optional Controls | Options |
|-------------------|--|--|--|--|--|---|---|---------|
| XALM | 2 - Type II
3 - Type III
FT - Type FT
SW - Type 5 | SS - Super Saver
HO - High Output
VHO - Very High Output | 30 - 3000K
40 - 4000K
50 - 5000K | UE - Universal
40 - 4000K
50 - 5000K | BRZ - Bronze
BLK - Black
GPT - Graphite
MSV - Metallic Silver
WHT - White
PLP - Platinum Plus
SVG - Satin Verde
Green | Wireless Controls System ^{1,4}
ALSCL - AirLink Synapse Control System
ALSCL - AirLink Synapse Control System - Host/Satellite
PCM - Platinum Control System ⁵
GDM - Gold Control System ¹
DIM - 0-10 Volt Dimming (required for satellite fixtures) ¹
(Blank) - None
Stand-Alone Controls
(Blank) - None
DIM - 0-10 Volt Dimming (from external signal) ^{1,7}
BLS - B-Level Switching (from external 120-277V signal) ^{1,7}
IMS - Integral Motion & Daylight Sensor ^{1,7} | PCR 7P - Photoelectric Control Receptacle ⁴
IL - Integral Louver House
Side Shield
90C - 90 CRI ¹¹ | |

Accessory Ordering Information

| Description | Order Number | Description | Order Number |
|---|--------------|---|--------------|
| PC100 Protocol for use with PCR option (120V) | 1225114* | DFK480 Double Fusing (480V) | DFK480* |
| PC208-277 Protocol for use with PCR option (208V, 240V, 277V) | 1225151* | FK347 Single Fusing (347V) | FK347* |
| PC347 Protocol for use with PCR option (347V) | 1225161* | ALSCL UNV TLS - AirLink 5 Pin Twist Lock Controller | 861409 |
| PC480 Protocol for use with PCR option (480V) | 1225180* | ALSCL UNV TL7 - AirLink 7 Pin Twist Lock Controller | 861410 |
| FK100 Single Fusing (120V) | FK100* | PKMS100 - 100V Pole-Mount Occupancy Sensor | 518036CLR** |
| FK277 Single Fusing (277V) | FK277* | PKMS208/240 - 208, 240V Pole-Mount Occupancy Sensor | 534256CLR** |
| IMS/PC Remote Configuration Tool | 584829 | PKMS277 - 277V Pole-Mount Occupancy Sensor | 518028CLR** |
| IL - Integral Louver HSS | 6304155FB | PKMS480 - 480V Pole-Mount Occupancy Sensor | 534240CLR** |
| DFK208, 340 Double Fusing (208V, 340V) | DFK208, 340* | BKS X80 WM - CLR Wall Mount Bracket | 382132CLR |

FOOTNOTES:

1 - For wireless controls information and accessories, see Controls Section.

2 - Requires a Site Manager and override switch. Not compatible with IMS or BLS Option.

3 - Not compatible with IMS.

4 - Not compatible with DIM, BLS or Wireless Control System.

5 - IMS is a Watt Stopper Dual Sensor (Daylight & Motion) which is field adjustable, via a hand held remote illustrative tool, which must be ordered separately.

6 - Photocell must be ordered separately. 7 pin standard. See Accessories.

7 - Not available with IMS Option or Wireless Control System

8 - Factory installed PCR option required. See Options.

9 - Fusing must be located in hand hole of pole.

10 - To be used in conjunction with PGM/GDM control modules in fixture. Consult factory.

11 - Consult factory.

12 - Consult factory for DLC qualification information and lead times.

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11/1/17



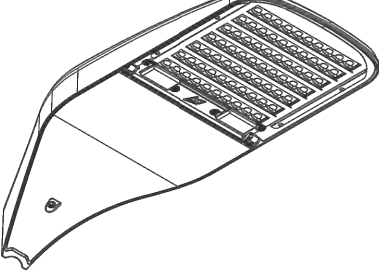
Mirada - XALM
Outdoor LED Area Light

Accessories/Options

Integral Louver (IL)

Optional Integral Louver available for improved back-light control without sacrificing street side performance.

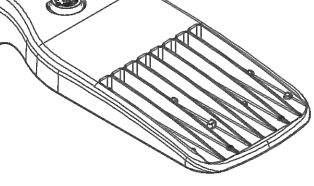
Fixture Shown with Integral Louver (IL)



7 Pin Photoelectric Control

7-pin ANSI C136.41-2013 control receptacle option available for twist lock photocontrols or wireless control modules. Control accessories sold separately. Dimming leads from the receptacle will be connected to the driver dimming leads (Consult factory for alternate wiring).

Fixture Shown with PCR 7P

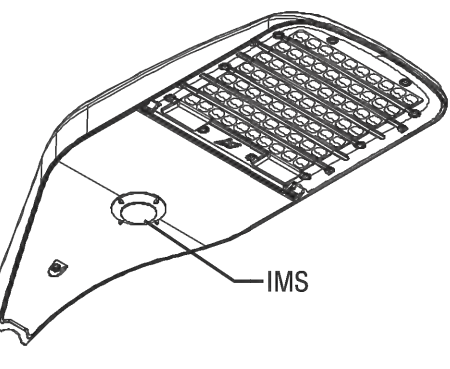


Controls

Occupancy Sensor / Daylight Sensor (IMS)

Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion. Low level light (30% maximum drive current) is activated when target zone is absent of motion activity for >5 minutes. Sensor has a detection cone of approximately 45°, see coverage diagram. Optional configurator tool allows for easy and safe programming of each luminaire from the ground level.

Fixture Shown with IMS

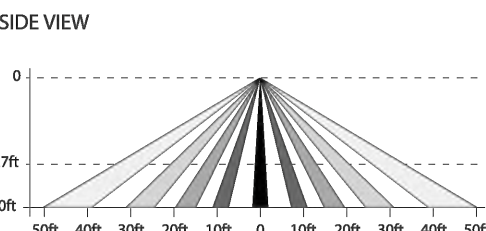


IMS/PC Remote Configurator Tool

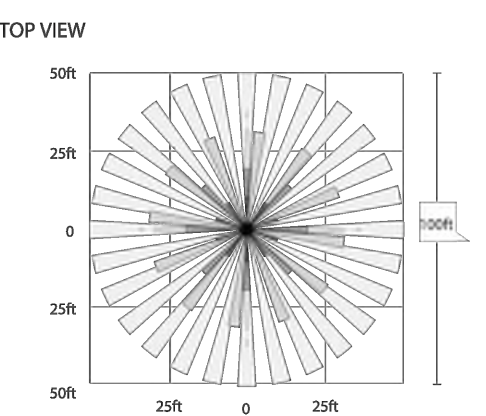


Optional IMS Coverage Diagram

SIDE VIEW



TOP VIEW



PLANS ACCEPTED

CITY OF
Westfield
INDIANA

Accepted

MAR 12 2018

Accepted By: John Rankin

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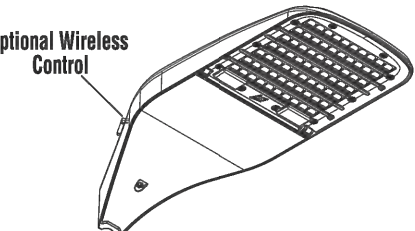
11/1/17



Mirada - XALM
Outdoor LED Area Light

AirLink™
enabled by Synapse®

Optional Wireless Control



Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect up to two (2) sensors into the outdoor AirLink wireless lighting system.

The wireless integrated controller and twist lock controller are compatible with this fixture.

Features

- 2% Utility Grade Power Monitoring
- Up to 80% Savings through smart dimming
- True On/Off functionality via switched relay
- Seamlessly integrates into the outdoor AirLink wireless lighting control solution & Self-healing Mesh Networking
- Relay closes on power loss
- Supports a wide range of LED drivers and fixtures

Specifications

Regulatory Approvals

- FCC, IC, CE certified
- cULus Listed
- California Title 24 compliant

Power and Performance

- Operating environmental: -40°F to 131°F (-40°C to 55°C)
- Input power: 100-277 VAC +/- 10% (Max 305V/47/64 Hz)
- Switched output: Default ON; Zero Cross Switching
- Load ratings: 5A @ 100V to 277V (+/- 10%)
- Dimming: 0-10V control; Output: Class 1/2 - 20mA Source Max / 50mA Sink Max
- Power monitoring: Utility grade - 2% accuracy
- Sensors inputs: 0-10V (photocell sensors), 0-24V (all other sensors); Sensor power supply: 24VDC @ 50mA

Other

- Dimensions: 8.2" L x 2.3" W x 1.3" H (209mm L x 59mm W x 33mm H) without antennas
- Radio: SNAP 2.4 GHz; 802.15.4; +20 dBm Transmit Power; -105 dBm Receive Sensitivity
- Warranty: 5 years

Contact LSI Controls

Sales

controls.sales@lsi-industries.com

Support

support@lsi-industries.com
1 (800) 436-7800 (support, option 8)

More information

For more information on AirLink, visit our website at www.lsi-airlink.com/airlink

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11/1/17

CBMCMC • LIGHTING SOLUTIONS

5855 KOPETSKY DR | INDIANAPOLIS, IN 46217
317-780-8350 | WWW.CBMCMC.COM

SITE LAYOUT

Laverna Lodge Parking -
Westfield, IN

STAMP

REVISIONS

| NO | DATE | BY |
|----|------|----|
| | | |
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| | | |
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| | | |

DRAWN BY: SJM

ISSUE DATE: 3/16/18

DRAWING NUMBER: CB12408-SITE-4

SHEET SIZE: ARCH Full Bleed D (24.00 X 36.00 Inches)

SCALE: #####

801 OF 801 SHEETS



WESTFIELD-WASHINGTON TOWNSHIP
ADVISORY PLAN COMMISSION

March 19, 2018
1803-DDP-09

Petition Number: 1803-DDP-09

Subject Site Address: 14758 Greyhound Plaza

Petitioner: Texas Roadhouse Holdings, LLC

Representative: Marisa Kolman; GreenbergFarrow

Request: Texas Roadhouse Holdings, LLC by GreenbergFarrow requests review of a Detailed Development Plan for the construction of a 6,994 sqft restaurant on 0.91 acres +/- in the GB: General Business Zoning District.

Current Zoning: GB: General Business

Current Land Use: Commercial

Property History: 98-AP-20 (Don Pablos)
98-IP-449
1803-VS-03

Approximate Acreage: 0.91 acres +/-

Exhibits: 1. Staff Report
2. Location Map
3. Site Plan
4. Elevations
5. Sign Plan

Staff Reviewer: Matt Pleasant, Associate Planner

PROCEDURAL

Approval of a Development Plan must be granted if the submitted plan demonstrates compliance with the terms of the underlying zoning district, subdivision control ordinance and/or applicable zoning district, any variances associated with the site, and any commitments associated with the site.

BACKGROUND

The Property is currently zoned GB: General Business Zoning District. The project received Variances of Standard to allow reduce Lot Standards (UDO Article 4.16(D), relief from the US Highway 31 Overlay District (Article 5.2), amending Landscaping Standards (Article 6.8), and allowing more Signage allotment (Article 6.17) at the [March 13, 2018 Board of Zoning Appeals](#) meeting.

The Technical Advisory Committee reviewed the petition at their February 20, 2018, meeting.

OVERLAY DISTRICTS (Article 5 of the UDO):

The plans comply.

Comment: Compliant. Relief granted by the Board of Zoning Appeals.

DEVELOPMENT PLAN (Article 10.7(G) of the UDO):

The plans comply.

- 1) Area map insert showing the general location of the site referenced to Streets, section lines and alternative transportation plan system, as well as the Zoning District and use of adjacent property.
- 2) Address and legal description of the property.
- 3) Boundary lines of the property including all dimensions.
- 4) Location, name, centerline and width of all Streets, Private Streets, Alleys, access easements and alternative transportation plan system improvements that are existing or proposed to be located within or adjacent to the property.
- 5) Location, centerline and width (at the Lot Line) measurements of any proposed or existing Driveways within two hundred (200) feet of the property, and any connection to an Alley must be indicated.
- 6) Location and dimensions of primary vehicular ways in and around the proposed development, including depictions of all travel lanes, turning movements, vehicle storage areas and tapers.
- 7) All proposed Street and Driveway improvements, both on and offsite, including measurement of curb radius and/or taper.
- 8) Location and dimensions of existing and proposed sidewalks, pathways, trails or other alternate transportation plan improvements.
- 9) Layout, number, dimension and area (in square feet and acres) of all Lots and Outlots with Building Setback Lines.
- 10) Location and dimensions of all existing structures and paved areas.
- 11) Location and dimensions of all proposed structures and paved areas (indicated by cross-hatching).
- 12) Location of all Floodplain areas within the boundaries of the property.
- 13) Names of legal ditches and streams on or adjacent to the site.

- 14) Location and feasibility statement of all existing and proposed utility facilities and easements, including, but not limited to: sanitary sewer, water, storm water management, electric, gas, telephone and cable.
- 15) Identify buildings proposed for demolition.
- 16) Areas of the property reserved for Development Amenities, Open Space and other similar uses.
- 17) Use of each Lot and/or building by labeling, including approximate density or size of proposed uses and buildings (e.g., number of parking spaces, Dwelling Units, Gross Floor Area, Living Area).

DEVELOPMENT PLAN REVIEW (Article 10.7(E) of the UDO):

Development Plans shall comply.

- 18) Compliance with all applicable development and design standards of the Zoning District in which the real estate is located.
- 19) Compliance with all applicable provisions of any Overlay District in which the real estate is located.
- 20) Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
 - a) The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
 - b) The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
 - c) The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
- 21) The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

DISTRICT STANDARDS (Chapter 4 of UDO)

The plans comply with Chapter 4.16 of the UDO.

- 22) Permitted Uses
- 23) Minimum Lot Area: No Minimum
- 24) Minimum Lot Frontage: 80 ft

Comment: Variance granted for 0' of lot frontage.

25) Minimum Building Setback Lines:

- i) Front: 60'; however, in established areas shall be the average setback of established buildings within the same Block and within three-hundred (300) feet in either direction of the proposed buildings.

Comment: Variance granted for 0' Front Yard Setback.

- ii) Side: 20'; however, in established areas where it is customary that businesses abut one another, the Side Yard Building Setback Lines may be reduced.

(1) Abutting a Residential District: 60'

Comment: Variance granted for a 0' Side Yard Setback.

- iii) Rear: 20'

Comment: Variance granted for a 0' Rear Yard Setback.

26) Minimum Lot Width: No Minimum

27) Maximum Building Height: 60'

28) Minimum Building Size: No Minimum

DEVELOPMENT STANDARDS (Chapter 6 of UDO)

The plans comply with Chapter 6 of the UDO.

29) Accessory Use and Building Standards (Article 6.1)

- a) Screening of Receptacles and Loading Areas (Article 6.1(H))

30) Architectural Standards (Article 6.3)

- a) Mechanical Screening
- b) Building Materials
- c) Architectural Theme
- d) Four-Sided Architecture
- e) Building Elevations
- f) Gutters and Downspouts
- g) Roof Design
- h) Main Entrances
- i) Windows
- j) Awnings

31) Building Standards (Article 6.4)

32) Fence Standards (Article 6.5)

33) Height Standards (Article 6.6)

34) Landscaping Standards (Article 6.8 of UDO & Section 11 of PUD)

- a) Tree Preservation
- b) General Screening Standards (Article 6.8(H))
- c) Detention and Retention Areas (Article 6.8(I))
- d) Street Trees (Article 8.6(J))
- e) Minimum Lot Landscaping Requirements (Article 6.8(K))

Comment: Variance granted to allow 5 shade trees and 0 ornamental/evergreen trees.

- f) Foundation Plantings (Article 6.8(L)): Plant materials shall be required intermittently (approximately every forty (40) feet) against long expanses (over eighty (80) feet) of Building Facades, fences, and other barriers to create a softening effect. Plant materials shall also be required along the Front Building Façade of all Buildings at a minimum ratio of one (1) shrub or ornamental tree per twelve (12) lineal feet.
- g) External Street Frontage Landscaping (Article 6.8(M))
- h) Buffer Yard Requirements (Article 6.8(N))
- i) Parking Area Landscaping (Article 6.8(O))
 - i) Interior Parking Area Landscaping

Comment: Variance granted to allow 6% of parking area to be landscaped and the reduction of landscape island sizes.

- ii) Perimeter Parking Area Landscaping

37) Lighting Standards (Article 6.9)

- a) All Light Fixtures shall be Fully Shielded and direct light downward toward the earth's surface. All lighting sources shall be directed away from reflective surfaces to minimize glare upon adjacent Lots and Rights-of-way.
- b) Light pole height shall not exceed twenty-five (25) feet. All Light Fixtures in Parking Areas shall be designed and located to confine emitted light to the Parking Area.
- c) Light meter readings shall not exceed one (1.0) foot candle at all Lot Lines.
- d) All Parking Area lighting shall be reduced (e.g., turned off or dimmed) by a minimum of thirty percent (30%) within thirty (30) minutes of closing of the last business or no later than 11:00 p.m.

38) Lot Standards (Article 6.10)

39) Outside Storage and Display (Article 6.12)

40) Outdoor Café and Eating Areas (Article 6.13)

- 41) Parking and Loading Standards (Article 6.14)
 - a) Stacking Requirements for Drive-Through Facilities
 - b) Parking Spaces Required
 - c) Parking Surface
 - d) Bicycle Parking (1 per 30 spaces)

42) Performance Standards (Article 6.15)

43) Setback Standards (Article 6.16)

44) Sign Standards (Article 6.17)

Comment: Variance granted to allow 256.03sqft of signage with varying sign sizes.

45) Vision Clearance Standards (Article 6.19)

46) Yard Standards (Article 6.21)

DESIGN STANDARDS (Chapter 8 of UDO)

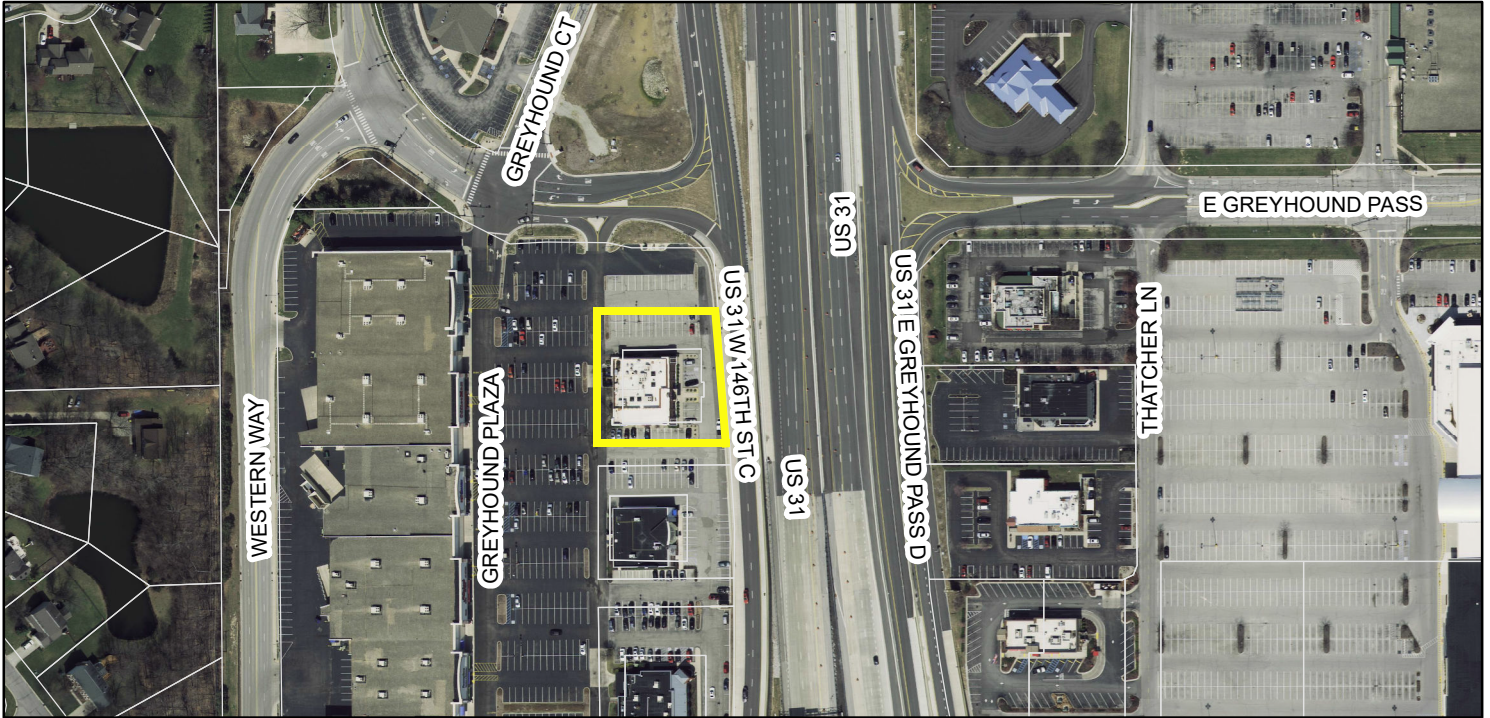
The plans comply with Chapter 8 of the UDO.

- 47) Easement Standards (Article 8.3)
- 48) Open Space and Amenity Standards (Article 8.6)
- 49) Pedestrian Network Standards (Article 8.7)
- 50) Storm Water Standards (Article 8.8)
- 51) Street and Right-of-Way Standards (Article 8.9)
- 52) Surety Standards (Article 8.12)
- 53) Utility Standards (Article 8.13)

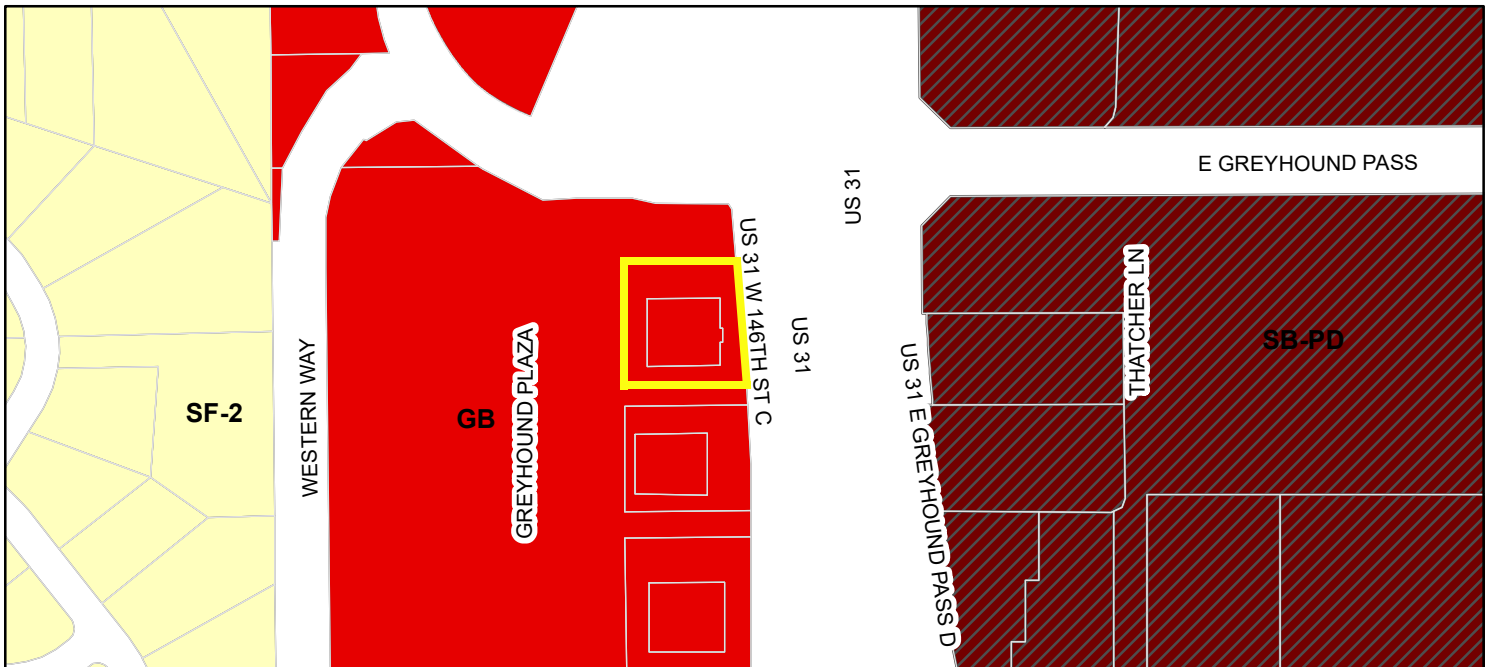
DEPARTMENT COMMENTS

- 1. **The Detailed Development Plan complies with the applicable zoning ordinances.**
- 2. **Action: Staff recommends approving the petition with the following conditions:**
 - **All necessary approvals be obtained from the Westfield Public Works Department, the County Surveyor's Office, and the Westfield Fire Department prior to the approval of an Improvement Location Permit.**
- 3. **If any Plan Commission member has questions prior to the meeting, then please contact Matt Pleasant at 937.974.5096 or mpleasant@westfield.in.gov.**

Aerial Location Map

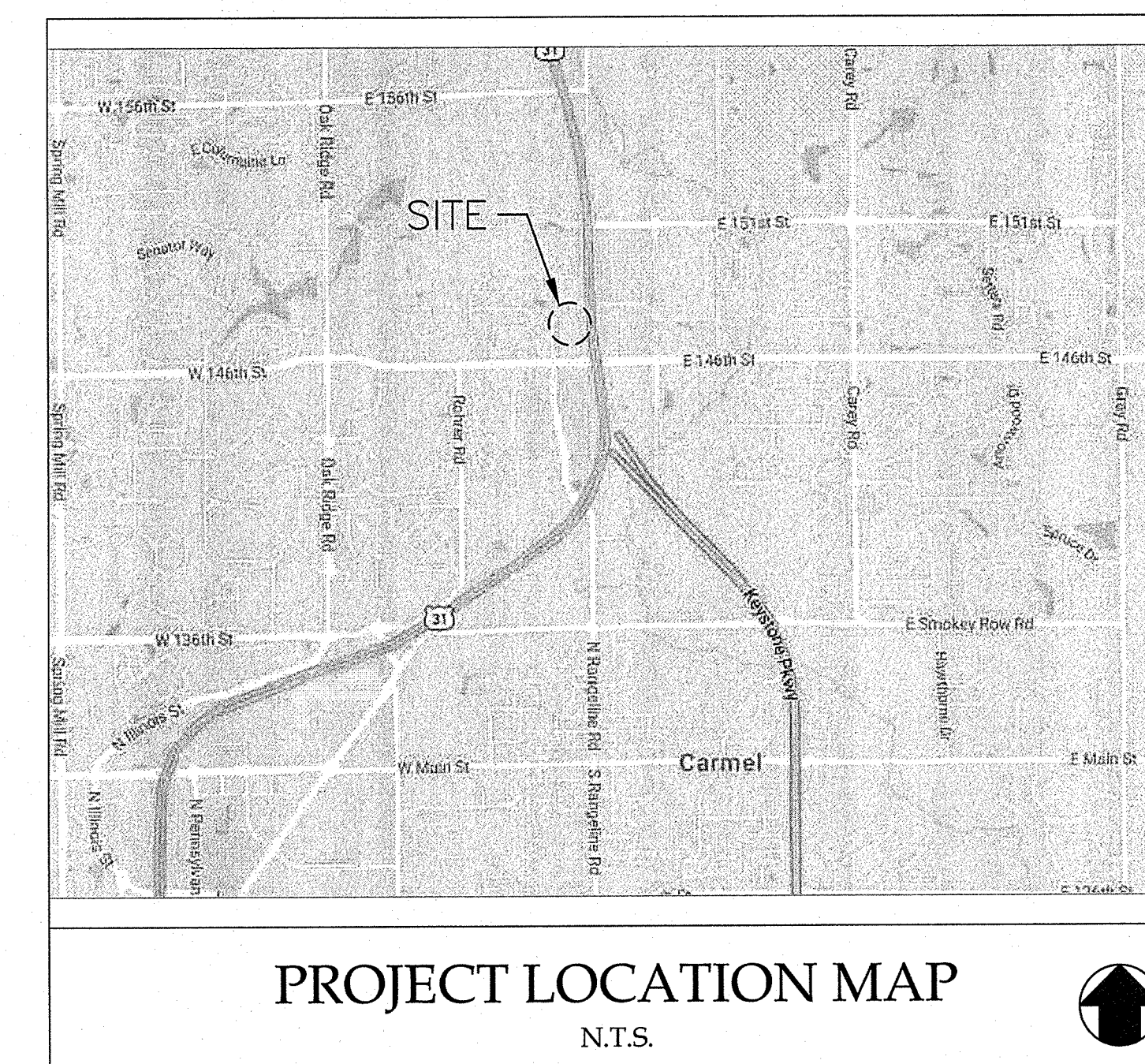
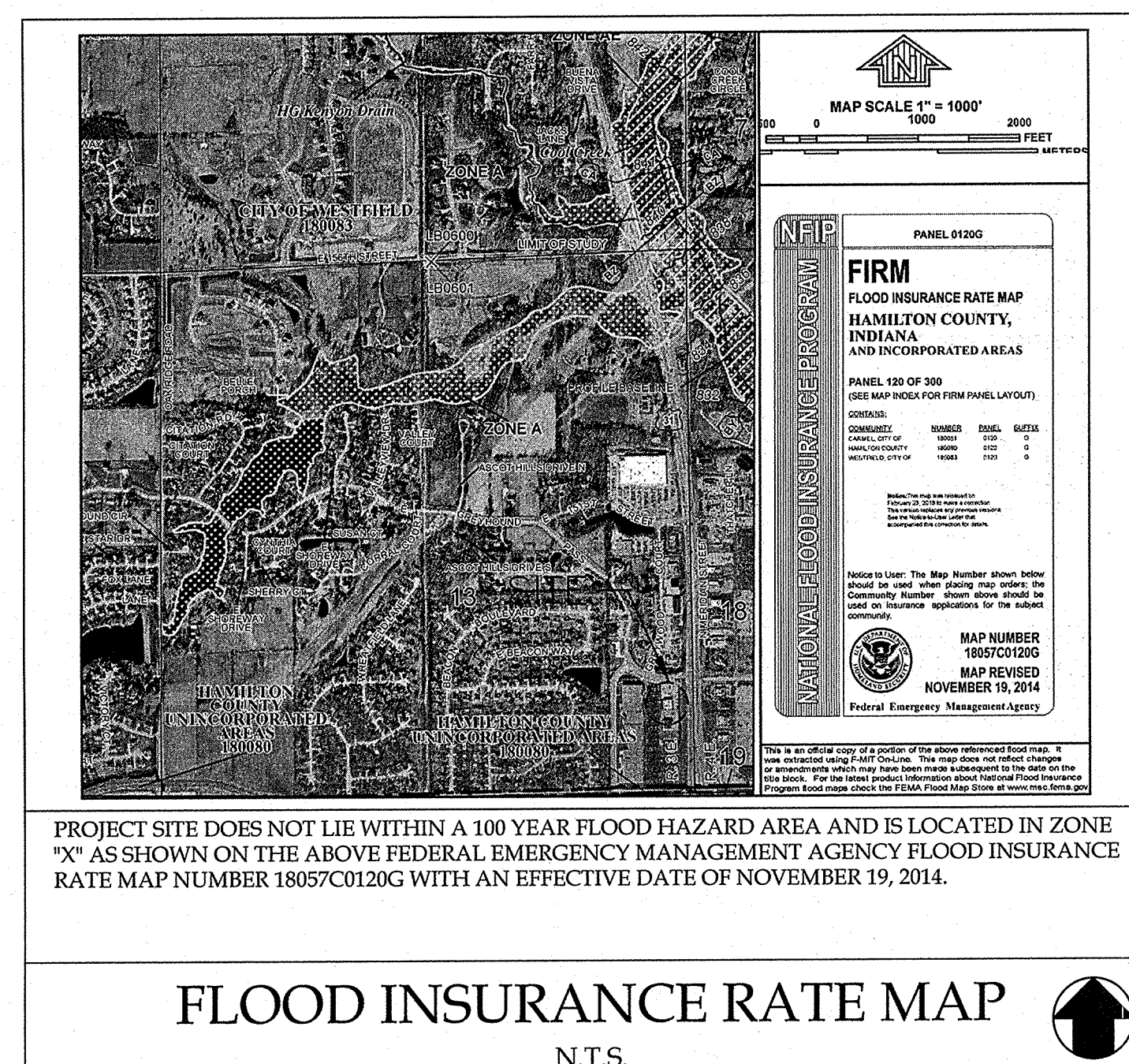


Zoning Map



Legend

- | | |
|-----------------------|--|
| Parcel | SB-PD (Special Business - Planned Development) |
| GB (General Business) | SF-2 (Single Family - 2) |



SHEET INDEX:

| | |
|------|--------------------------------------|
| C0.0 | COVER SHEET |
| C1.0 | GENERAL NOTES |
| C2.0 | DEMOLITION PLAN |
| C3.0 | SITE PLAN |
| C4.0 | GRADING AND DRAINAGE PLAN |
| C5.0 | UTILITY PLAN |
| C6.0 | STORMWATER POLLUTION PREVENTION PLAN |
| C6.1 | STORMWATER POLLUTION PREVENTION PLAN |
| C7.0 | CONSTRUCTION DETAILS |
| C7.1 | CONSTRUCTION DETAILS |
| C7.2 | CONSTRUCTION DETAILS |

ATTACHMENTS

| | |
|------|------------------------------|
| L1.0 | ALTA/NSPS LAND TITLE SURVEY |
| L2.0 | LANDSCAPE PLAN |
| L2.1 | LANDSCAPE NOTES AND DETAILS |
| L2.1 | IRRIGATION NOTES AND DETAILS |

14758 N. MERIDIAN STREET
HAMILTON COUNTY
CARMEL, INDIANA 46032
ZONING: GB - GENERAL BUSINESS
DISTRICT

DEVELOPER:

TEXAS ROADHOUSE
CONTACT: DUANE BANET
TEXAS ROADHOUSE HOLDINGS, LLC
6040 DUTCHMANS LANE, SUITE 400
LOUISVILLE, KENTUCKY 40205
EMAIL: DUANE.BANET@TEXASROADHOUSE.COM

ENGINEER:

GreenbergFarrow

CONTACT: JEFF RATH, P.E.
21 S. EVERGREEN AVENUE, SUITE 200
ARLINGTON HEIGHTS, ILLINOIS 60005
TEL: (224) 310-5064
EMAIL: JRATH@GREENBERGFARROW.COM

CONTACTS:

PLANNING:

CITY OF WESTFIELD ECONOMIC AND COMMUNITY
DEVELOPMENT
2728 E. 171ST STREET
WESTFIELD, IN 46074
CONTACT: MATT PLEASANT,
ASSOCIATE PLANNER
TEL: (317) 804-3170

WATER & SAN:

CITIZENS ENERGY GROUP
CONTACT: JEFF MILLER
TEL: (917) 263-8442
JMILLER@CITIZENSENERGYGROUP.COM

FIRE:

WESTFIELD FIRE DEPARTMENT
17535 DARTOWN RD
WESTFIELD, IN 46074
FIRE CHIEF
TEL: (317) 804-3300

STORM:

CITY OF WESTFIELD PUBLIC WORKS
2728 E. 171ST ST
WESTFIELD, IN 46074
TEL: (317) 804-3170

GAS:

VECTREN ENERGY
CONTACT: RANDY CRUTCHFIELD,
ENGINEERING
TEL: (317) 776-5560

ELECTRIC:

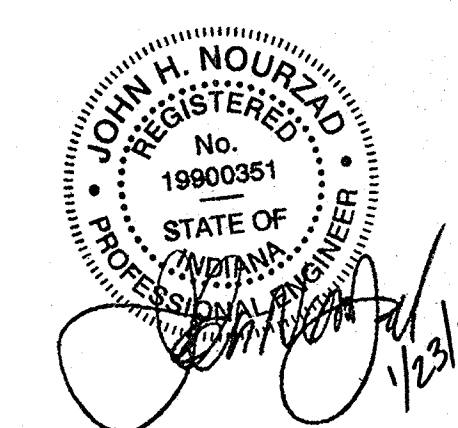
DUKE ENERGY
TEL: (812) 231-6796

SURVEYOR:

SEA GROUP LAND SURVEYORS
CONTACT: JAMES M. FAZEKAS
494 GRADLE DRIVE
CARMEL, INDIANA 46032
TEL: (317) 844-3333
PROJECT NO. C17-3201

GEOTECHNICAL ENGINEER:

TERRACON CONSULTANTS, INC.
CONTACT: S. TAYLOR TALUSKIE
611 LUNKEN PARK DRIVE
CINCINNATI, OHIO 45226
TEL: (513) 321-5816
PROJECT NO. N1175368



JOB NO. 20170746.0

DATE: 1-19-2018

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY AND ALL WAYS, MEANS AND METHODS OF CONSTRUCTION.
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL AGENCY CODES, STANDARDS AND SPECIFICATIONS.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY SITE PERMITS AND LICENSES FROM THE APPLICABLE GOVERNING AUTHORITIES.
4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST STATE AND LOCAL GOVERNMENT CONSTRUCTION STANDARDS AND SPECIFICATIONS.
5. UNLESS OTHERWISE NOTED ON THE PLANS, CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER PROJECT GOVERNING AUTHORITY(S) A MINIMUM OF FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS AND TO SCHEDULE ANY REQUIRED SITE INSPECTIONS.
6. CONTRACTOR SHALL SCHEDULE A UTILITY LOCATING SERVICE AND/OR NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION. ANY NECESSARY RELOCATIONS OR REMOVALS OF EXISTING UTILITY LINES SHALL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER.
8. ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE SURVEYOR ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKINGS. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED.
9. ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNER(S).
10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED.
11. ALL PROPERTY MARKERS AND SURVEY REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR.
12. THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY.
13. ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITION OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE PLANS.
14. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 12 (TWELVE) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
16. CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY.
17. ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
18. AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(S), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS:
 - 18.1. TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES.
 - 18.2. HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES.
 - 18.3. RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL PROPOSED UTILITIES.
 - 18.4. AS-BUILT AND/OR RECORD DRAWING INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION. ANY AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET.

SITE GRADING AND PAVING NOTES:

1. ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THE PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF LEGALLY OFFSITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD.
3. EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. UNLESS OTHERWISE NOTED ON THE PLANS, A MINIMUM OF 6" TOPSOIL RE-SPREAD AND SEEDING FOR ALL DISTURBED AREAS IS REQUIRED.
4. THE GEOTECHNICAL INVESTIGATION REPORT FOR THE SITE AND ALL ADDENDA THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF UNSUITABLE MATERIAL AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION.
5. ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH AND PERFORMED AT THE DIRECTION OF THE OWNER'S GEOTECHNICAL ENGINEER.
6. THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
7. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE.
8. REMOVED PAVEMENTS, SIDEWALKS, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFFSITE AT LOCATIONS DETERMINED BY THE CONTRACTOR.
9. ON AND OFFSITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
10. PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVEMENT SECTION (ROADS, WALKS, DRIVE, ETC.) OR TOPSOIL AS INDICATED ON THE PLANS.
11. CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS.
12. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
13. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
14. SITE GRADING AND CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS SHALL NOT CAUSE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH.
15. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT.
16. DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO IMPEDE THE SURFACE DRAINAGE SYSTEM.
17. TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE APPLICABLE STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS.

STORM SEWER NOTES:

1. ALL STORM SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
3. RCP STORM SEWER PIPE 12" IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C443.
4. HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212.
5. PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 35 PIPE PER ASTM D3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212, UNLESS OTHERWISE NOTED.
6. STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
 - 6.1. STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING LOCAL STANDARD GRADATIONS.
 - 6.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL STORM SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
7. REQUIRED STORM STRUCTURE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
8. FIELD TILE ENCOUNTERED DURING CONSTRUCTION OPERATIONS SHALL BE CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR EXTENDED TO OUTLET INTO A PROPOSED DRAINAGE WAY. IF THIS CANNOT BE ACCOMPLISHED, THEN IT SHALL BE REPAIRED WITH NEW PIPE OF SIMILAR SIZE AND MATERIAL TO THE ORIGINAL LINE AND PUT IN ACCEPTABLE OPERATING CONDITION. A RECORD OF THE LOCATION OF ALL FIELD TILE OR DRAIN PIPE ENCOUNTERED SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AND/OR ENGINEER UPON COMPLETION OF THE PROJECT AND ACCURATELY SHOWN ON THE RECORD DRAWINGS.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. ALL SANITARY SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
3. ALL SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 PIPE PER ASTM D3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D3212, UNLESS OTHERWISE NOTED.
 - 3.1. WHERE SANITARY SEWER PIPE IS NOTED AS PVC C900, THE PIPE SHALL BE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) C900 WITH WATERTIGHT, PRESSURE RATED JOINTS CONFORMING TO ASTM D3139.
4. SANITARY SEWER CONSTRUCTION SHALL COMMENCE AT THE EXISTING MANHOLE(S) AND/OR CONNECTION POINT(S) INDICATED ON THE PLANS.
 - 4.1. A WATERTIGHT PLUG SHALL BE INSTALLED AND LEFT IN PLACE AT THE POINT OF COMMENCEMENT UNTIL THE REMAINDER OF THE PROPOSED SEWERS HAVE BEEN CONSTRUCTED, PROPERLY TESTED AND DEEMED READY FOR FINAL ACCEPTANCE.
5. ALL SANITARY SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
 - 5.1. ALL SANITARY SEWERS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE AND FOR PVC PIPE, MATERIAL SHALL BE EXTENDED A MINIMUM OF 12" OVER THE TOP OF THE PIPE PER ASTM D2321. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING LOCAL STANDARD GRADATIONS.
 - 5.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL SANITARY SEWERS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
6. THE CONTRACTOR IS REQUIRED TO RECORD THE LOCATION OF ALL SEWERS AND FURNISH THE INFORMATION TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL LOCATE ALL SEWERS BY MEASUREMENTS TO LOT CORNERS OR OTHER PERMANENT SITE FEATURE AND SHALL FURNISH A COPY OF SUCH LOCATIONS TO THE PROJECT ENGINEER AND/OR OWNER'S REPRESENTATIVE UPON PROJECT COMPLETION. THIS INFORMATION SHALL ALSO INCLUDE THE DEPTH OF EACH SEWER. IF THE CONTRACTOR FAILS TO PROPERLY LOCATE ANY SEWER, HE SHALL BE RESPONSIBLE FOR ALL COSTS WHICH ARE INCURRED AS A RESULT OF THE IMPROPERLY LOCATED UTILITIES.
7. SANITARY SEWER MANHOLES SHALL BE PRECAST CONCRETE AND SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS IN THE PLANS.
 - 7.1. A FLEXIBLE TYPE JOINT SHALL BE FURNISHED AT POINTS OF ENTRY INTO AND EXITING FROM MANHOLE STRUCTURES AND SHALL BE OF A DESIGN APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. THIS FLEXIBLE JOINT MAY CONSIST OF A SLEEVE OF HIGH QUALITY SYNTHETIC RUBBER WITH A SUBSTANTIAL SERRATED FLANGE WHICH IS CAST DIRECTLY INTO THE WALL OF THE MANHOLE BASE TO FORM A WATERTIGHT SEAL AND PROTRUDES OUTSIDE OF THE MANHOLE WALL TO CONNECT WITH THE PIPE ENTERING/EXITING THE MANHOLE. WHEN THIS TYPE OF FLEXIBLE JOINT IS USED, THE SLEEVE SHALL SLIP OVER THE END OF THE PIPE ADJACENT TO THE MANHOLE BASE AND SHALL BE SECURED BY MEANS OF A STAINLESS STEEL STRAP CLAMP EQUIPPED WITH A DRAW BOLT AND NUT.
8. REQUIRED MANHOLE RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.

SANITARY SEWER NOTES (continued):

9. AFTER FINAL ADJUSTMENTS HAVE BEEN MADE, ALL JOINTS IN PRECAST STRUCTURES SHALL BE MORTARED. THE MORTAR SHALL BE COMPOSED OF ONE (1) PART CEMENT TO THREE (3) PARTS SAND, BY VOLUME, BASED ON DRY MATERIALS, AND SHALL BE THOROUGHLY WETTED BEFORE LAYING.
10. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR MANHOLE, THE FOLLOWING METHOD SHALL BE USED:
 - 10.1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ('SEWER-TAP' MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
11. UPON COMPLETION OF THE SANITARY SEWER CONSTRUCTION, INCLUDING THE SERVICE LINES, ALL SEWERS SHALL BE TESTED IN ACCORDANCE WITH SECTIONS LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL BE WITNESSED BY THE LOCAL GOVERNING AUTHORITY OR AUTHORIZED REPRESENTATIVE.

WATER MAIN AND WATER SERVICE NOTES:

1. ALL WATER MAIN CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES IN THE PLANS AND THE STANDARDS, SPECIFICATIONS, CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.
2. WATER MAIN PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
3. WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) PIPE IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARD C900 WITH PRESSURE RATED FLEXIBLE (O-RING) SLIP ON JOINTS CONFORMING TO ASTM D3139, UNLESS OTHERWISE NOTED.
3. UNLESS OTHERWISE NOTED ON THE PLANS, ALL WATER MAIN PIPE SHALL BE LAID WITH A MINIMUM COVER OF FIVE (5) FEET FROM THE PROPOSED FINISH GRADE INDICATED ON THE PLANS OR TO THE SPECIFIC TOP OF PIPE ELEVATION INDICATED ON THE PLANS FOR THE WATER MAIN. NO BERMS ARE ALLOWED OVER WATER MAINS EXCLUSIVELY FOR THE PURPOSE OF OBTAINING ADEQUATE GROUND COVER.
4. DUCTILE IRON WATER MAIN PIPE SHALL BE CONSTRUCTED WITH A MINIMUM OF 8-MIL POLYETHYLENE ENCASEMENT TO PREVENT CORROSION.
5. WATER MAIN TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HAUNCHING SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
 - 5.1. WATER MAINS MUST BE PLACED ON PROPERLY COMPACTED STONE BEDDING. PIPE BEDDING MATERIAL SHALL BE A MINIMUM OF FOUR (4) INCHES THICK UNDER THE BARREL OF THE PIPE. PIPE BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING LOCAL STANDARD GRADATIONS.
 - 5.2. TRENCH BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR MAXIMUM DRY DENSITY, PER ASTM D698, OVER ALL WATER MAINS WHICH ARE CONSTRUCTED UNDER, OR WITHIN TWO (2) FEET OF, ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS OR SIDEWALKS.
6. A WATERTIGHT PLUG SHALL BE PLACED IN THE END OF THE WATER MAIN PIPE AT THE END OF EACH CONSTRUCTION DAY.
7. UPON COMPLETION OF THE WATERMAIN CONSTRUCTION, ALL WATER MAIN SHALL BE TESTED IN ACCORDANCE WITH THE FOLLOWING MINIMUM STANDARDS:
 - 7.1. HYDROSTATIC PRESSURE AND LEAKAGE TESTS IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL BE WITNESSED BY THE LOCAL GOVERNING AUTHORITY.
 - 7.2. DISINFECTION IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE METHODS STATED IN AWWA STANDARD C651 AND WITNESSED BY THE LOCAL GOVERNING AUTHORITY.
8. WATER SERVICE PIPING AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
9. WATER SERVICE LINES 2" IN DIAMETER OR SMALLER SHALL BE TYPE "K" COPPER TUBING CONFORMING TO ASTM B88-14. NO COUPLINGS SHALL BE PERMITTED BETWEEN THE CORPORATION AND CURB STOPS OR BETWEEN THE CURB STOP AND THE BUILDING.
10. WATER SERVICE FITTINGS INCLUDING CORPORATION STOPS, SERVICE BOXES AND BUFFALO BOXES SHALL BE FURNISHED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS.
11. SERVICE BOXES SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE TOP TO BE INSTALLED FLUSH WITH THE FINISHED GRADE. EACH SERVICE BOX SHALL BE PROVIDED WITH A CAP WITH THE WORD "WATER" CAST IN THE TOP.
12. VALVES, VALVE BOXES OR VAULTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
13. PRESSURE CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH LOCAL REQUIREMENTS AND SPECIFICATIONS AND SHALL INCLUDE THE INSTALLATION OF A FULL STAINLESS STEEL TAPPING SADDLE.
14. VALVE VAULTS SHALL HAVE A MINIMUM DIAMETER OF FIVE (5) FEET BELOW THE PRECAST CONCRETE CONE SECTION. THE VAULTS SHALL BE CONSTRUCTED OF PRECAST CONCRETE SECTIONS AND SHALL CONFORM TO THE DETAILS SPECIFIED ON THE PLANS. ALL VALVE VAULTS SHALL BE LEAK PROOF.
15. TEMPORARY CONNECTIONS FOR CONSTRUCTION PURPOSES TO NEWLY INSTALLED OR EXISTING WATER MAINS SHALL BE MADE AND METERED IN ACCORDANCE WITH LOCAL REQUIREMENTS.
16. REQUIRED RIM ADJUSTMENTS SHALL BE MADE WITH PRECAST CONCRETE ADJUSTING RINGS NOT TO EXCEED A MAXIMUM OF EIGHT (8) INCHES IN OVERALL HEIGHT. A MAXIMUM OF TWO (2) ADJUSTING RINGS ARE ALLOWED. BUTYROPE JOINT SEALANT SHALL BE USED ON ALL JOINTS BETWEEN THE PRECAST ELEMENTS.
17. BENDS ON 4" AND GREATER WATER LINES SHALL BE PROVIDED WITH RESTRAINED JOINTS. (MEGALUG SERIES 2000 OR APPROVED EQUAL)

WATER AND SEWER SEPARATION NOTES:

1. WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER, OR SEWER SERVICE CONNECTION.
2. WATER MAINS MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:
 - 2.1. LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET; AND
 - 2.2. THE WATER MAIN INVERT IS AT LEAST EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE SEWER; AND
 - 2.3. THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.
3. WHEN IT IS IMPOSSIBLE TO MEET 1) OR 2) ABOVE, BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED FOR THE MAXIMUM EXPECTED SURCHARGE HEAD PRIOR TO BACKFILLING.
4. WATER MAINS SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF EIGHTEEN (18) INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS, OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSING. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.
5. BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION WHEN:
 - 5.1. IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN 4) ABOVE; OR THE WATER MAIN PASSES UNDER A SEWER OR DRAIN
6. A VERTICAL SEPARATION OF EIGHTEEN (18) INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. THE SEWER OR DRAIN LINES SHALL BE SUPPORTED TO PREVENT SETTLING AND BREAKING OF THE WATER MAIN, AS SHOWN ON THE PLANS OR AS APPROVED BY THE ENGINEER.
7. CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

EXISTING LEGEND:

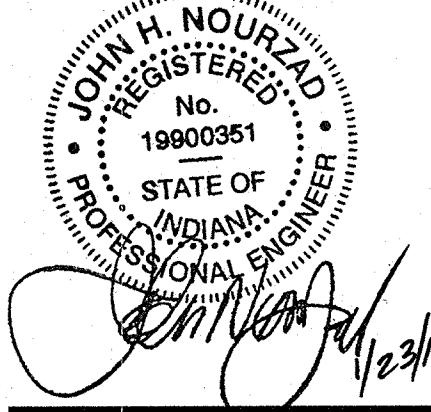
- SEA GROUP MONUMENT SET
- CUT "X" SET or FOUND
- BRASS PLUG / COPPER WELD
- SURVEY MARKER FOUND
- PK or MAG NAIL FOUND
- SECTION CORNER (AS NOTED)
- BENCHMARK (AS NOTED)
- RIGHT OF WAY MARKER
- TRAFFIC SIGNAL POLE
- AIR CONDITIONER
- FIRE MAIN
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER WELL
- BEE-HIVE INLET
- CURB INLET
- DRAINAGE INLET
- MANHOLE
- AIR / VACUUM EQUIPMENT
- SIGN
- LARGE SIGN
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- ELECTRIC METER
- ELECTRIC UTILITY
- BOLLARD
- CLEAN OUT
- MAIL BOX
- GAS LINE MARKER
- GAS VALVE
- GAS METER
- TELEPHONE MANHOLE
- TELEPHONE UTILITY
- TELEPHONE LINE MARKER
- SANITARY SEWER MANHOLE
- SANITARY SEWER MARKER
- STORM SEWER MANHOLE
- COMMUNICATIONS UTILITY

PROJECT TEAM

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ISSUE/REVISION RECORD

| DATE | DESCRIPTION |
|----------|-------------------------|
| 11/30/17 | CITY SUBMISSION |
| 01/19/18 | REVISED CITY SUBMISSION |



PROFESSIONAL IN CHARGE
JOHN HOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. PE19900351

PROJECT MANAGER
JEFF RATH

QUALITY CONTROL
LARRY DIEHL

DRAWN BY
MATTHEW H. BUDDIE

PROJECT NAME

TEXAS
ROADHOUSE

CARMEL
INDIANA

14758 N. MERIDIAN STREET



PROJECT NUMBER

20170746.0

SHEET TITLE

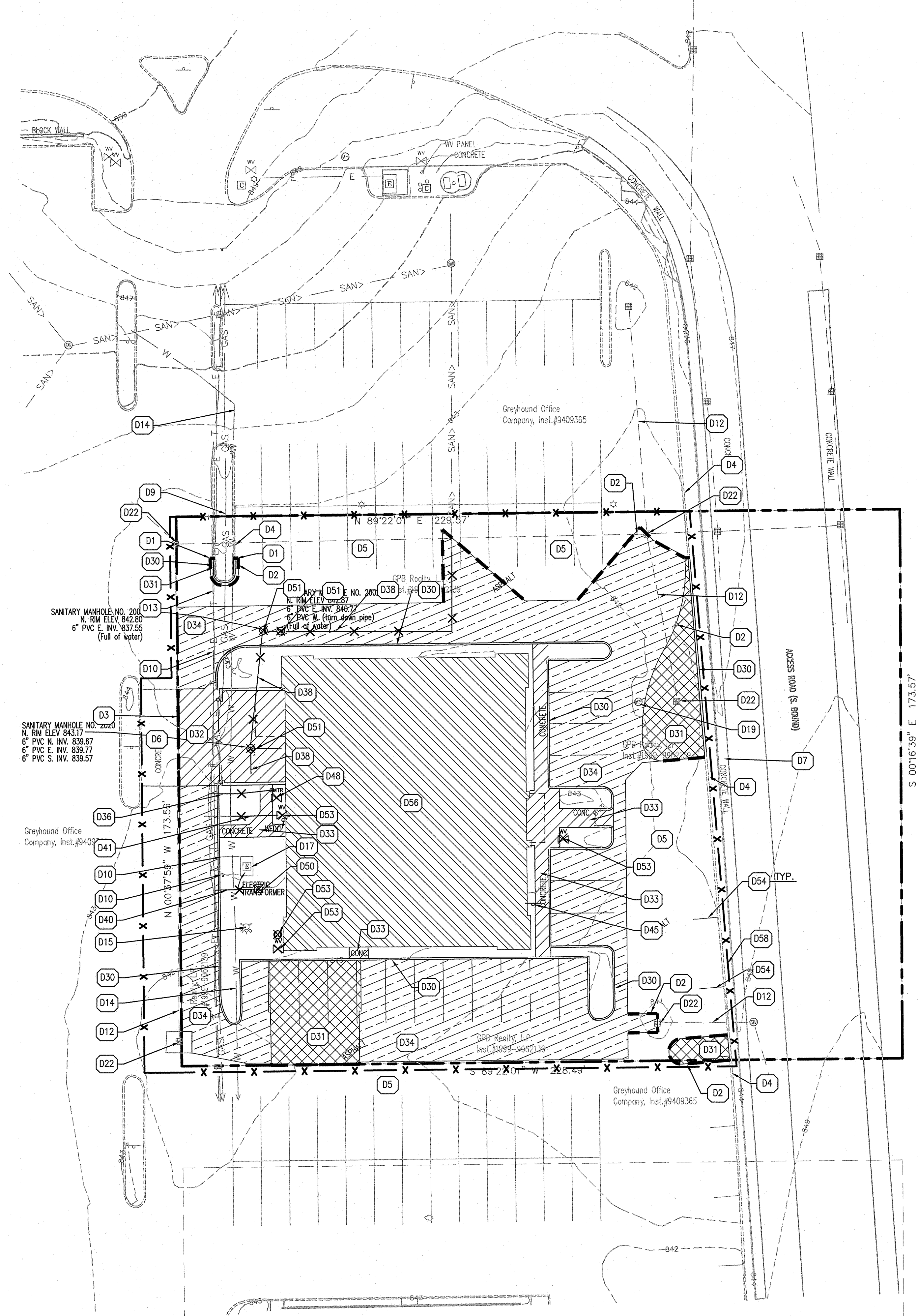
GENERAL
NOTES

SHEET NUMBER

C1.0

GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL CONTACT STATE ONE CALL SYSTEM (811) AND/OR PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR EXCAVATION. EXACT LOCATIONS OF ANY EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.
2. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WORK WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF EXISTING SITE FEATURES NOT NOTED FOR REMOVAL.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED (SEE STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL INFORMATION AND DETAILS).
5. THE PURPOSE OF THIS DRAWING IS TO CONVEY THE OVERALL SCOPE OF DEMOLITION WORK AND IT IS NOT INTENDED TO COVER ALL DETAILS OR SPECIFICATIONS REQUIRED TO COMPLY WITH GENERALLY ACCEPTED DEMOLITION PRACTICES. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE, SCOPE OF WORK, AND ALL EXISTING CONDITIONS AT THE JOB SITE PRIOR TO BIDDING AND COMMENCING THE WORK. THE DEMOLITION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, OR PROCEDURES USED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND IS LIABLE FOR THE SAFETY OF THE PUBLIC AND CONTRACTOR'S EMPLOYEES DURING THE COURSE OF THE PROJECT.
6. THE DEMOLITION PLAN IS INTENDED TO SHOW REMOVAL OF KNOWN SITE FEATURES AND UTILITIES AS SHOWN ON THE SURVEY PROVIDED TO THE ENGINEER FOR DESIGN. THERE MAY BE OTHER SITE FEATURES, UTILITIES, STRUCTURES, AND MISCELLANEOUS ITEMS BOTH BURIED AND ABOVE GROUND THAT ARE WITHIN THE LIMITS OF WORK THAT MAY REQUIRE REMOVAL FOR THE PROPOSED SITE IMPROVEMENTS BUT THAT ARE NOT SHOWN HEREON. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF SUCH ITEMS AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCING ANY SITE DEMOLITION OPERATIONS TO COORDINATE DISCONNECTION AND REMOVAL OF EXISTING UTILITIES WITHIN THE PROPOSED AREA OF WORK. CONTRACTOR SHALL ALSO CONTACT CATULIN DAWSON WITH TEXAS ROADHOUSE (502-855-5556 OR CATULIN.DAWSON@TEXASROADHOUSE.COM) TO COORDINATE DISCONNECTION OF THE EXISTING BUILDING TELEPHONE SERVICE.
8. CONTRACTOR SHALL COORDINATE ANY SHUT DOWNS OF EXISTING ROADWAYS AND UTILITIES WITH THE NECESSARY GOVERNING AUTHORITIES.
9. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, WHEEL STOPS AND MISCELLANEOUS DEBRIS) NOTED TO BE REMOVED SHALL BE DEMOLISHED, REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
10. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDINGS, PAVEMENTS, OR WALKS OR WITHIN 24" THEREOF SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT.
11. AS SOON AS DEMOLITION WORK HAS BEEN COMPLETED, FINAL GRADE OF BACKFILL IN DEMOLITION AREAS SHALL BE COMPACTED PER THE GEOTECHNICAL REPORT TO PRESENT A NEAT, WELL DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL PROVIDE TEMPORARY DIVERSION SWALES OR OTHER MEANS OF MAINTAINING ADEQUATE SITE DRAINAGE.
12. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED (REFER TO LANDSCAPE PLANS FOR ALL LANDSCAPING REMOVAL REQUIREMENTS).
13. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION NOTED TO BE REMOVED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR (REFER TO LANDSCAPE PLANS FOR ALL LANDSCAPING REMOVAL REQUIREMENTS).
14. CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
15. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
16. ALL FIRE ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.
17. ALL EXISTING SANITARY SEWERS, STORM SEWERS, WATER MAINS OR IRRIGATION LINES AND APPURTENANCES NOTED FOR REMOVAL WITHIN THE AREA OF THE PROPOSED CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. ALL ABANDONED SEWER LINES SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FEET LONG NON-SHRINK CONCRETE MORTAR PLUGS UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS TO HAVE RECYCLABLE MATERIALS REMOVED FROM THE SITE AND RECYCLED.
19. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



DEMOLITION PLAN LEGEND:

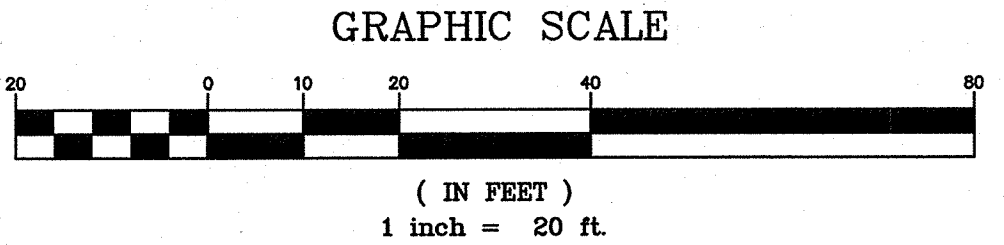
- PROPERTY LINE
- PROPOSED SAW CUT LINE
- EXISTING CURB TO BE REMOVED
- EXISTING CURB AND GUTTER TO BE REMOVED
- EXISTING CABLE TELEVISION LINE TO BE REMOVED
- EXISTING ELECTRIC LINE TO BE REMOVED
- EXISTING GAS SERVICE TO BE REMOVED
- EXISTING SANITARY SEWER SERVICE TO BE REMOVED
- EXISTING STORM SEWER SERVICE TO BE REMOVED
- EXISTING TELEPHONE SERVICE TO BE REMOVED
- EXISTING WATER SERVICE TO BE REMOVED
- PROPOSED CONSTRUCTION FENCE
- UTILITY LINE CAP LOCATION
- EXISTING SANITARY STRUCTURE TO BE REMOVED
- EXISTING TREE TO BE REMOVED
- NOTE: SEE SHEET C1.0 FOR EXISTING LEGEND

DEMOLITION HATCH LEGEND:

- D31 EXISTING ASPHALT PAVEMENT TO BE REMOVED
- D32 EXISTING CONCRETE PAVEMENT TO BE REMOVED
- D34 EXISTING ASPHALT PAVEMENT TO BE MILLED
- D56 EXISTING BUILDING TO BE REMOVED
- D#

DEMOLITION KEY NOTES:

- D1 SAW CUT EXISTING CONCRETE CURB
- D2 SAW CUT EXISTING ASPHALT PAVEMENT
- D3 SAW CUT EXISTING CONCRETE PAVEMENT
- D4 EXISTING CONCRETE CURB TO REMAIN
- D5 EXISTING ASPHALT PAVEMENT TO REMAIN
- D6 EXISTING CONCRETE PAVEMENT TO REMAIN
- D7 EXISTING RETAINING WALL TO REMAIN
- D9 APPROXIMATE LOCATION OF EXISTING NATURAL GAS LINE TO REMAIN
- D10 APPROXIMATE LOCATION OF EXISTING ELECTRICAL LINE TO REMAIN
- D11 APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LINE TO REMAIN
- D12 APPROXIMATE LOCATION OF EXISTING STORM SEWER LINE TO REMAIN
- D13 APPROXIMATE LOCATION OF EXISTING TELEPHONE LINE TO REMAIN
- D14 APPROXIMATE LOCATION OF EXISTING WATER LINE TO REMAIN
- D15 EXISTING FIRE HYDRANT TO REMAIN
- D16 EXISTING LIGHT POLE TO REMAIN
- D17 EXISTING TRANSFORMER TO REMAIN
- D19 EXISTING COMMUNICATIONS MANHOLE TO REMAIN
- D20 EXISTING TELEPHONE, PEDESTAL TO REMAIN
- D21 EXISTING SANITARY STRUCTURE TO REMAIN
- D22 EXISTING STORM STRUCTURE TO REMAIN
- D30 EXISTING CONCRETE CURB TO BE REMOVED
- D31 EXISTING ASPHALT PAVEMENT TO BE REMOVED, FULL DEPTH
- D32 EXISTING CONCRETE PAVEMENT TO BE REMOVED
- D33 EXISTING SIDEWALK TO BE REMOVED
- D34 EXISTING ASPHALT PAVEMENT TO BE MILLED, FULL DEPTH
- D36 APPROXIMATE LOCATION OF EXISTING NATURAL GAS LINE TO BE REMOVED
- D37 APPROXIMATE LOCATION OF EXISTING ELECTRICAL LINE TO BE REMOVED
- D38 APPROXIMATE LOCATION OF EXISTING SANITARY SEWER LINE TO BE REMOVED
- D40 APPROXIMATE LOCATION OF EXISTING TELEPHONE LINE TO BE REMOVED
- D41 APPROXIMATE LOCATION OF EXISTING WATER LINE TO BE REMOVED
- D43 EXISTING LIGHT POLE TO BE REMOVED
- D45 EXISTING SIGN TO BE REMOVED
- D48 EXISTING GAS STRUCTURE TO BE REMOVED
- D49 EXISTING ELECTRICAL STRUCTURE TO BE REMOVED (COORDINATE WITH ELECTRICAL PROVIDER PRIOR TO REMOVAL)
- D50 EXISTING TELEPHONE PEDESTAL TO BE REMOVED
- D51 EXISTING SANITARY STRUCTURE TO BE REMOVED
- D52 EXISTING STORM STRUCTURE TO BE REMOVED
- D53 EXISTING WATER STRUCTURE TO BE REMOVED
- D54 EXISTING PARKING STRIPES TO BE REMOVED
- D56 EXISTING BUILDING TO BE REMOVED
- D58 PROPOSED CONSTRUCTION FENCE



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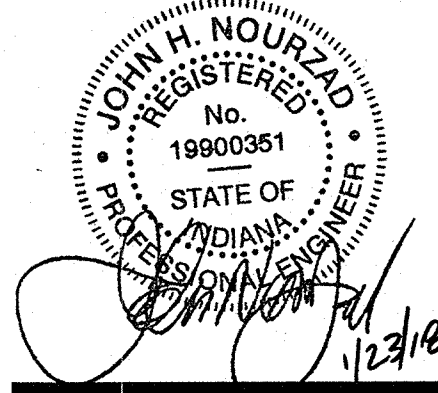
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PROJECT TEAM

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ISSUE/REVISION RECORD

| DATE | DESCRIPTION |
|----------|-------------------------|
| 11/30/17 | CITY SUBMISSION |
| 01/19/18 | REVISED CITY SUBMISSION |



PROFESSIONAL IN CHARGE
JOHN NOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. PE19900351

PROJECT MANAGER
JEFF RATH

QUALITY CONTROL
LARRY DIEHL

DRAWN BY
MATTHEW H. BUDD

PROJECT NAME

**TEXAS
ROADHOUSE**

**CARMEL
INDIANA**

14758 N. MERIDIAN STREET



PROJECT NUMBER
20170746.0

SHEET TITLE
**DEMOLITION
PLAN**

SHEET NUMBER

C2.0

1. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SITE SETBACKS, EASEMENTS AND ZONING PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST STATE AND LOCAL GOVERNMENT CONSTRUCTION STANDARDS AND SPECIFICATIONS.
5. ALL HANDICAP ACCESSIBLE SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND REQUIREMENTS.
6. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY PREPARENCES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS, ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER, UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED BY THE CONTRACTOR AFTER SUCH A DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE.
7. CONTRACTOR SHALL COORDINATE ALL SITE IMPROVEMENTS WITH ARCHITECTURAL, PLANNING AND ENGINEERING CONSULTANTS BEING USED FOR BUILDING STAKEOUT.
8. CONTRACTOR SHALL COORDINATE ALL LANDSCAPE IMPROVEMENTS, INCLUDING NEW PLANTINGS AND TURF AREA RESTORATION REQUIREMENTS, WITH LANDSCAPE PLANS.
9. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. ALL DIMENSIONS SHOWN ARE MEASURED FROM FACE OF CURB TO FACE OF CURB OR EDGE OF PAVEMENT TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
11. ALL CURB RADI ARE MEASURED AT THE FACE OF CURB UNLESS OTHERWISE NOTED.
12. ALL NEW ASPHALT AND/OR CONCRETE PAVING SHALL MATCH EXISTING PAVEMENTS FLUSH.
13. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
14. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
15. ALL DETECTABLE WARNING PLATES SHALL BE PREFORMED PLASTIC INSERTS UNLESS OTHERWISE NOTED.
16. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

1. REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON AND DATED 10/26/17 FOR ADDITIONAL INFORMATION REGARDING THE EXISTING SOIL CONDITIONS AND SUBGRADE PREPARATION REQUIREMENTS AND PROPOSED PAVEMENT RECOMMENDATIONS (PROJECT NO. N175368).
2. SEE CONSTRUCTION DETAILS SHEET C7.0 FOR PAVEMENT SECTION DETAILS.
3. SEE GENERAL NOTES SHEET C1.0 FOR EXISTING LEGEND.

S1 PROPOSED TEXAS ROADHOUSE BUILDING (SEE ARCHITECTURAL AND STRUCTURAL
PLANS FOR ADDITIONAL INFORMATION AND DETAILS)

S2 PROPOSED TRASH ENCLOSURE (SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR
ADDITIONAL INFORMATION AND DETAILS)

S3B PROPOSED CONCRETE BARRIER CURB

S3D PROPOSED 4' CURB CUT (0" CURB HEAD)

S4 PROPOSED REVERSE PITCH CONCRETE CURB AND GUTTER (TBD)

S5 PROPOSED MONOLITHIC CONCRETE CURB AND SIDEWALK

S6A PROPOSED CONCRETE SIDEWALK

S6B PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK

S7A PROPOSED CONCRETE LANDING (SEE STRUCTURAL PLANS FOR ADDITIONAL
INFORMATION AND DETAILS)

S7B PROPOSED INTEGRAL BLACK COLORED CONCRETE LANDING (SEE STRUCTURAL
PLANS FOR ADDITIONAL INFORMATION AND DETAILS)

S8 PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE (SEE STRUCTURAL
PLANS FOR ADDITIONAL INFORMATION AND DETAILS)

S9 PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE SLAB (SEE
GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND DETAILS)

S10 PROPOSED ASPHALT PAVEMENT

S11 PROPOSED HEAVY DUTY ASPHALT PAVEMENT

S12 PROPOSED DETECTABLE WARNING PLATE (TYP.)

S13 PROPOSED LANDSCAPE AREA (SEE LANDSCAPE PLANS FOR ADDITIONAL
INFORMATION AND DETAILS)

S15 PROPOSED PRECAST CONCRETE WHEEL STOP (TYP. OF 5)

S16 PROPOSED 4" PAVEMENT STRIPING PER LOCAL CODE

S19 PROPOSED HANDICAP ACCESSIBLE PARKING SIGN PER LOCAL CODE (TYP. OF 5)

S20 PROPOSED HANDICAP ACCESSIBLE PARKING STALL STRIPING AND SYMBOL PER
LOCAL CODE (TYP.)

S21 PROPOSED HANDICAP ACCESSIBLE CURB RAMP AT 12:1 MAXIMUM SLOPE PER
LOCAL CODES

S22 PROPOSED CONCRETE TRANSFORMER PAD WITH STEEL BOLLARD PROTECTION
(CONTRACTOR SHALL COORDINATE CONCRETE TRANSFORMER PAD LOCATION, SIZE
AND THICKNESS WITH ELECTRIC COMPANY PRIOR TO INSTALLATION)

S25 PROPOSED BIKE RACKS WITH BLACK POWDER COATED FINISH (TOTAL OF 2 BIKE
RACKS PROVIDING 4 BICYCLE PARKING SPACES - SEE DETAIL ON SHEET C7.2)

S40 EXISTING ASPHALT PAVEMENT TO REMAIN

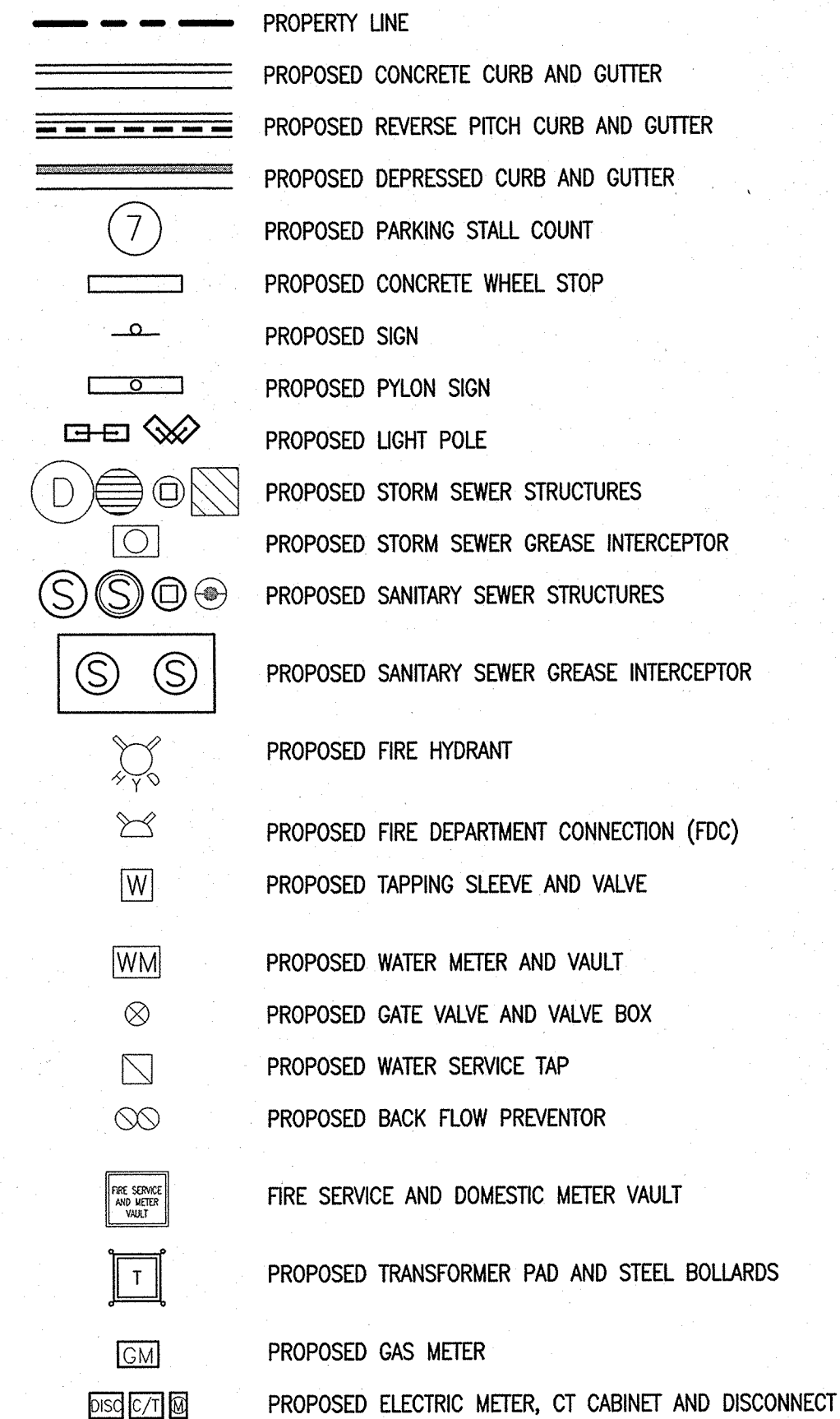
S41B EXISTING CONCRETE CURB TO REMAIN

S42 EXISTING FIRE HYDRANT TO REMAIN

S43 EXISTING LIGHT POLE TO REMAIN

S44 EXISTING PAVEMENT STRIPING TO REMAIN

S50 INTERNAL PARCEL LINE OF "DON PABLOS"



S6A PROPOSED CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" AGGREGATE BASE (INDOT NO. 53)

S6B PROPOSED INTEGRAL BLACK CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" AGGREGATE BASE (INDOT NO. 53)

S7A PROPOSED CONCRETE LANDING
6" PORTLAND CEMENT CONCRETE
(SEE STRUCTURAL PLANS FOR REINFORCEMENT, AGGREGATE, AND SUBGRADE REQUIREMENTS)

S7B PROPOSED INTEGRAL BLACK COLORED CONCRETE LANDING
6" PORTLAND CEMENT CONCRETE
(SEE STRUCTURAL PLANS FOR REINFORCEMENT, AGGREGATE, AND SUBGRADE REQUIREMENTS)

S8 PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE
7" PORTLAND CEMENT CONCRETE
(SEE STRUCTURAL PLANS FOR REINFORCEMENT, AGGREGATE, AND SUBGRADE REQUIREMENTS)

S9 PROPOSED HEAVY DUTY INTEGRAL BLACK COLORED CONCRETE SLAB
7" PORTLAND CEMENT CONCRETE
4" AGGREGATE BASE (INDOT NO. 53)
(SEE GEOTECHNICAL REPORT)

S10 PROPOSED ASPHALT PAVEMENT
1.5" ASPHALT SURFACE COURSE
1.5" ASPHALT BASE COURSE
6" AGGREGATE BASE (INDOT NO. 53)
(SEE GEOTECHNICAL REPORT)

S11 PROPOSED HEAVY DUTY ASPHALT PAVEMENT
1.5" ASPHALT SURFACE COURSE
3.5" ASPHALT BASE COURSE
8" AGGREGATE BASE (INDOT NO. 53)
(SEE GEOTECHNICAL REPORT)

S13 PROPOSED LANDSCAPE AREA
(SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION AND DETAILS)

| | |
|-------------------------|--|
| SITE AREA: | 0.91± ACRES |
| ZONED: | GB |
| PROPOSED BUILDING AREA: | 6,994 SQ. FT. |
| PROPOSED USE: | RESTAURANT |
| BUILDING HEIGHT: | 25'-6" |
| PARKING REQUIRED: | 82 STALLS (1 STALL PER 3 SEATS - 245 SEATS TOTAL) |
| PARKING PROVIDED: | 28 STALLS |
| | (INCLUDING 5 ADA STALLS) |
| BIKE PARKING REQUIRED: | 3 SPACES (1 SPACE PER 30 VEHICULAR PARKING STALLS) |
| BIKE PARKING PROVIDED: | 4 SPACES |

(IN FEET)
1 inch = 20 ft.

C3.0

GENERAL GRADING NOTES:

1. ALL GRADING AND SITE PREPARATION WORK SHALL CONFORM WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE GEOTECHNICAL REPORT.
2. CONTRACTOR SHALL CAREFULLY PRESERVE ALL SITE BENCHMARKS AND REFERENCE POINTS DURING CONSTRUCTION OPERATIONS.
3. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.
4. CONTRACTOR SHALL INSTALL APPROPRIATE TREE PROTECTION MEASURES PRIOR TO COMMENCEMENT OF SITE GRADING OPERATIONS.
5. ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC. SHALL MATCH EXISTING GRADES FLUSH.
6. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL STORM DRAINAGE STRUCTURES. AREAS OF SURFACE PONDING SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7. ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS.
8. CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
9. CONTRACTOR SHALL REPAIR AT HIS EXPENSE ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
10. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
11. MAXIMUM CROSS SLOPES AND LONGITUDINAL SLOPES FOR ALL CONCRETE SIDEWALKS AND HANDICAP ACCESSIBLE ROUTES SHALL NOT EXCEED 2% AND 5%, RESPECTIVELY.
12. MAXIMUM SLOPES WITHIN THE HANDICAP ACCESSIBLE PARKING AREAS SHALL NOT EXCEED 2% IN ANY DIRECTION.
13. MAXIMUM GRADE DIFFERENCE BETWEEN PAVEMENT SURFACES AND ADJACENT CONCRETE SIDEWALKS FOR THE ACCESSIBLE ROUTE TO THE BUILDING SHALL NOT EXCEED 1/4" VERTICAL OR 1/2" WHEN BEVELED.
14. ALL HANDICAP ACCESSIBLE EXTERIOR DOORWAY LOCATIONS REQUIRE AN EXTERIOR LANDING THAT IS A MINIMUM OF FIVE (5) FEET IN LENGTH WITH A SLOPE NOT EXCEEDING 2% IN ANY DIRECTION.
15. EXCAVATION SHORING SHALL BE DONE AS NECESSARY FOR THE PROTECTION OF THE WORK AND FOR THE SAFETY OF PERSONNEL. SHORING SHALL BE IN ACCORDANCE WITH ALL O.S.H.A AND LOCAL REGULATIONS.
16. ALL STRUCTURE BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH CONVEYANCE OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/4-INCH PER FOOT SLOPE TO THE MANHOLE WALL.
17. ALL STORM WATER INLETS AND CATCH BASIN CASTINGS SHALL HAVE THE WORDS "NO DUMPING, DRAINS TO STREAM", OR SIMILARLY APPROVED MESSAGE, CAST IN RAISED OR RECESSED LETTERS AT A MINIMUM OF 1" IN HEIGHT. IN ADDITION, A SYMBOL OF A FISH SHALL ALSO BE CAST WITH THE LETTERS.
18. SEE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

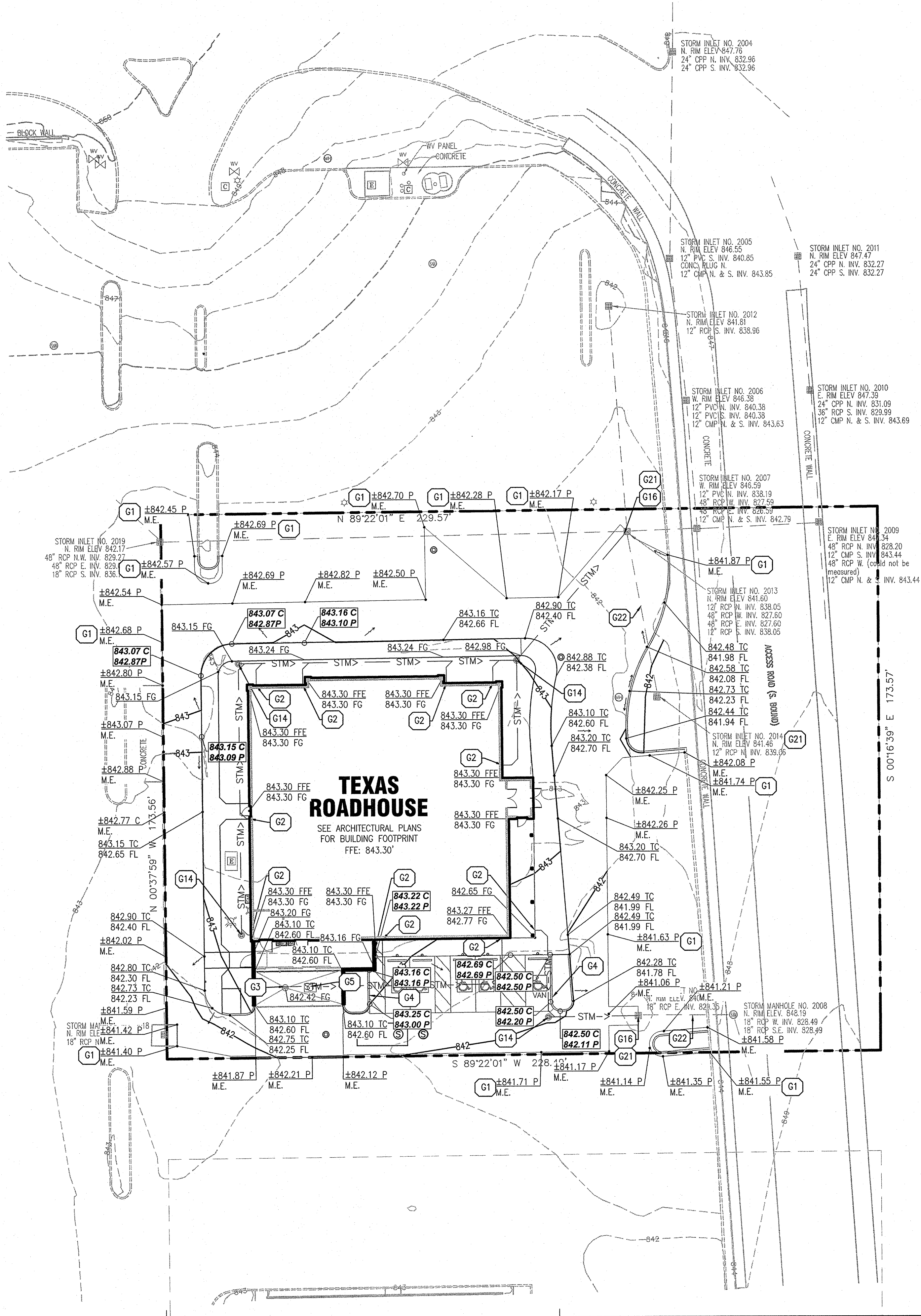
PROJECT BENCHMARKS:

SITE BENCHMARKS:

BM #1: CUT "SQUARE" AT THE SE CORNER OF AN ELECTRIC PANEL PAD APPROXIMATELY 150' NORTH OF THE SUBJECT BUILDING.
ELEVATION= 846.83'

FLOOD NOTE:

THIS PROPERTY IS NOT LOCATED WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 18057C01206, LAST REVISED NOVEMBER 19, 2014.



PROPOSED LEGEND:

- PROPERTY LINE
- ===== PROPOSED CONCRETE CURB AND GUTTER
- ===== PROPOSED DEPRESSED CONCRETE CURB AND GUTTER
- ===== PROPOSED REVERSE PITCH CONCRETE CURB AND GUTTER
- 50 - PROPOSED CONTOUR
- 472.85 TC
472.35 FL PROPOSED SPOT ELEVATION
- 604.80 C
604.80 P PROPOSED SPOT ELEVATION EXPOSED CURB FACE VARIES
- BM # 00.00 SITE BENCH MARK (SEE SURVEY FOR ADDITIONAL INFORMATION)
- PROPOSED GRADING RIDGE LINE
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED OVERLAND FLOOD ROUTE
- PROPOSED STORM SEWER STRUCTURE WITH OPEN GRATE
- PROPOSED STORM SEWER STRUCTURE WITH CLOSED LID
- PROPOSED STORM SEWER CLEAN OUT
- PROPOSED HEAVY DUTY AREA DRAIN
- STM --- PROPOSED STORM SEWER

GRADING & DRAINAGE KEY NOTES:

- G1 FIELD VERIFY AND MATCH EXISTING ELEVATION AT PROJECT SCOPE OF WORK LIMITS (TYP.)
- G2 PROPOSED ROOF DRAIN LOCATION (SEE UTILITY PLAN FOR MORE INFORMATION)
- G3 PROPOSED ZURN Z505 AREA DRAIN (SEE UTILITY AND PLUMBING PLANS)
- G4 CURB TRANSITION FOR 0" TO 6" IN HEIGHT
- G5 PROPOSED STORM SEWER GREASE INTERCEPTOR (SCHIER GB-75 OR EQUAL)
- G14 PROPOSED STORM SEWER CLEAN OUT
- G16 CORE DRILL AND CONNECT PROPOSED STORM SEWER LINE TO EXISTING STORM SEWER STRUCTURE PER LOCAL CODES (CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO CONSTRUCTION.)
- G21 EXISTING STORM SEWER STRUCTURE TO REMAIN
- G22 EXISTING STORM SEWER LINE TO REMAIN

GreenbergFarrow

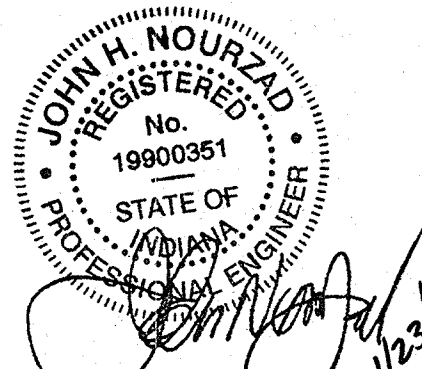
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PROJECT TEAM

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DATE DESCRIPTION
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01/19/18 REVISED CITY SUBMISSION



PROFESSIONAL IN CHARGE

JOHN NOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. PE19900351

PROJECT MANAGER

JEFF RATH

QUALITY CONTROL

LARRY DIEHL

DRAWN BY

MATTHEW H. BUDE

PROJECT NAME

TEXAS
ROADHOUSE

CARMEL
INDIANA

14758 N. MERIDIAN STREET



PROJECT NUMBER

20170745.0

SHEET TITLE

GRADING AND
DRAINAGE
PLAN

SHEET NUMBER

C4.0

GENERAL UTILITY NOTES:

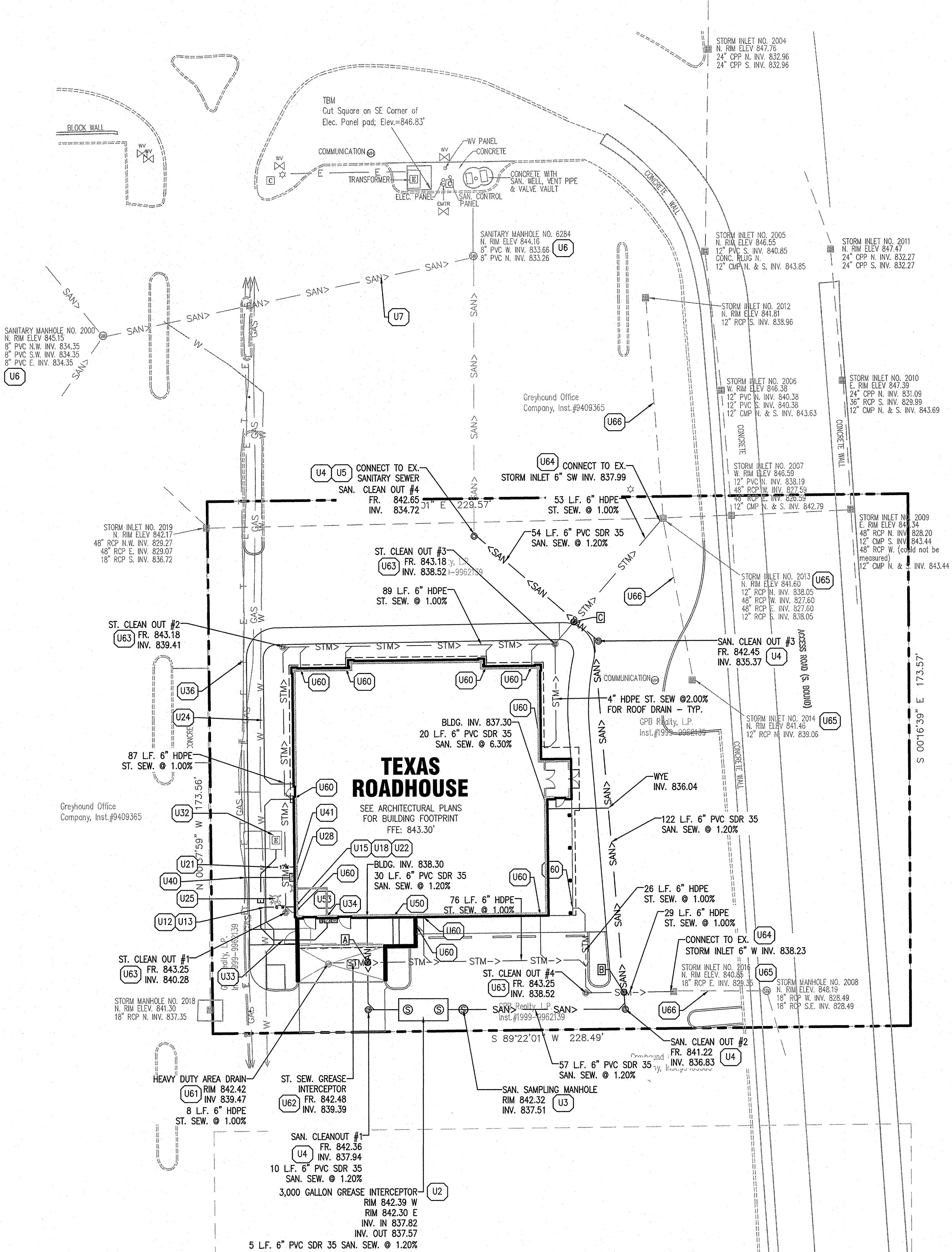
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- CONTRACTOR SHALL EXCAVATE AND VERIFY IN FIELD ALL EXISTING UTILITY LOCATIONS, SIZES, CONDITIONS AND ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO COMMENCING ANY UNDERGROUND CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- ALL PROPOSED CONNECTIONS TO EXISTING UTILITY STRUCTURES OR PIPING SHALL BE IN ACCORDANCE WITH THE APPLICABLE GOVERNING AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL EXISTING SEWER SYSTEMS DURING CONSTRUCTION OPERATIONS AS NECESSARY TO PREVENT SILT OR DEBRIS ACCUMULATION.
- SEE THE GENERAL NOTES SHEET FOR ADDITIONAL INFORMATION AND REQUIREMENTS INCLUDING ALL PIPE MATERIAL AND JOINT SPECIFICATIONS.

UTILITY CROSSINGS:

- A BOTTOM OF PROPOSED 6" STORM SEWER =839.32'
TOP OF PROPOSED 6" SANITARY SEWER =838.65'
VERTICAL SEPARATION = 0.67'
- B BOTTOM OF PROPOSED 6" STORM SEWER =838.37'
TOP OF PROPOSED 6" SANITARY SEWER =837.28'
VERTICAL SEPARATION = 1.09'
- C BOTTOM OF PROPOSED 6" STORM SEWER =838.40'
TOP OF PROPOSED 6" SANITARY SEWER =835.60±
VERTICAL SEPARATION = 2.80'

UTILITY KEY NOTES:

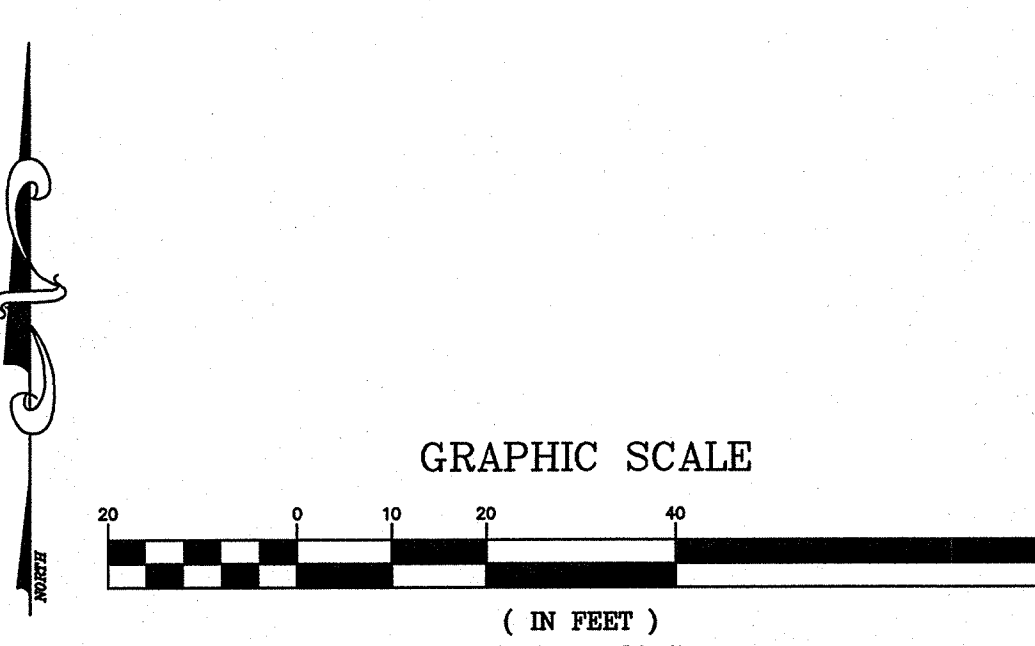
- U2 PROPOSED 3,000 GALLON SANITARY SEWER GREASE INTERCEPTOR (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U3 PROPOSED SANITARY SEWER SAMPLING WELL (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U4 PROPOSED SANITARY SEWER CLEANOUT
- U5 CONNECT PROPOSED 6" SANITARY SEWER TO EXISTING SANITARY SEWER WITH NEW INSERT TEE AND RISER SECTION PER LOCAL CODES (CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND ELEVATION OF EXISTING SANITARY INVERT PRIOR TO INSTALLING PROPOSED SANITARY SEWER LINES)
- U6 EXISTING SANITARY SEWER STRUCTURE TO REMAIN
- U7 EXISTING SANITARY SEWER LINE TO REMAIN
- U12 PROPOSED 6" PVC C900 FIRE PROTECTION WATER SERVICE LINE
- U13 PROPOSED 8"x8"x6" TEE
- U15 PROPOSED 2" TYPE K COPPER DOMESTIC WATER LINE WITH 2" WATER METER TO BE TAPPED OFF 6" FIRE PROTECTION LINE INSIDE BUILDING MECHANICAL ROOM (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION)
- U16 PROPOSED 2" DOMESTIC BACKFLOW PREVENTION DEVICE TO BE LOCATED INSIDE BUILDING MECHANICAL ROOM (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
- U18 PROPOSED 6" FIRE PROTECTION BACKFLOW PREVENTION DEVICE TO BE LOCATED INSIDE BUILDING MECHANICAL ROOM (SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION AND DETAILS)
- U21 PROPOSED 1" TYPE K COPPER IRRIGATION WATER LINE STUB
- U22 PROPOSED IRRIGATION WATER LINE BACKFLOW PREVENTION DEVICE AND 1" WATER METER TO BE LOCATED INSIDE BUILDING MECHANICAL ROOM (COORDINATE EXACT IRRIGATION STUB LOCATION WITH PLUMBING PLANS AND SEE IRRIGATION PLAN FOR CONTINUATION)
- U24 APPROXIMATE LOCATION OF EXISTING WATER MAIN TO REMAIN
- U25 EXISTING FIRE HYDRANT TO REMAIN
- U28 PROPOSED FIRE DEPARTMENT CONNECTION (FDC) PER LOCAL CODE
- U32 EXISTING ELECTRIC TRANSFORMER LOCATION
- U33 SECONDARY POWER - SEE SHEET E3, DETAIL 1 FOR SECONDARY ELECTRICAL POWER REQUIREMENTS - CONDUIT AND WIRE QUANTITY AND SIZE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR
- U34 PROPOSED ELECTRIC SERVICE METER, CT CABINET AND DISCONNECT LOCATION (SEE BUILDING ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U36 EXISTING ELECTRIC SERVICE LINE TO REMAIN
- U40 PROPOSED GAS SERVICE LINE (CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION REQUIREMENTS WITH GAS COMPANY. SEE BUILDING MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U41 PROPOSED GAS SERVICE METER (CONTRACTOR SHALL COORDINATE METER LOCATION WITH GAS COMPANY AND BUILDING MECHANICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U50 PROPOSED (2) 2" PVC SCHEDULE 80 CONDUITS WITH PULL WIRE FOR NEW TELEPHONE AND CABLE TELEVISION SERVICE LINES (CONTRACTOR SHALL COORDINATE ROUTING AND INSTALLATION REQUIREMENTS WITH TELEPHONE AND CABLE COMPANIES. SEE BUILDING ELECTRICAL PLANS FOR ADDITIONAL INFORMATION AND DETAIL)
- U53 PROPOSED BUILDING MECHANICAL ROOM (SHOWN FOR REFERENCE ONLY)
- U60 PROPOSED ROOF DRAIN LOCATION
- U61 PROPOSED ZURN Z505 AREA DRAIN
- U62 PROPOSED STORM SEWER GREASE INTERCEPTOR (SCHIER GB-75 OR EQUAL)
- U63 PROPOSED STORM SEWER CLEAN OUT
- U64 CORE DRILL AND CONNECT PROPOSED STORM SEWER LINE TO EXISTING STORM SEWER STRUCTURE PER LOCAL CODES (CONTRACTOR TO FIELD VERIFY ELEVATION OF EXISTING INVERTS PRIOR TO CONSTRUCTION.)
- U65 EXISTING STORM SEWER STRUCTURE TO REMAIN
- U66 EXISTING STORM SEWER LINE TO REMAIN



PROPOSED LEGEND:

- PROPERTY LINE
- STM--- PROPOSED STORM SEWER
- SAN--- PROPOSED SANITARY SEWER
- 6"W--- PROPOSED 6" FIRE PROTECTION WATER LINE
- 8"W--- PROPOSED 8" FIRE PROTECTION WATER LINE
- 2"W--- PROPOSED 2" DOMESTIC WATER SERVICE
- 1"W--- PROPOSED 1" IRRIGATION WATER SERVICE
- E--- PROPOSED ELECTRIC SERVICE LINE
- G--- PROPOSED GAS SERVICE LINE
- T--- PROPOSED TELEPHONE SERVICE LINE
- PROPOSED STORM SEWER STRUCTURE WITH OPEN GRATE
- PROPOSED STORM SEWER STRUCTURE WITH CLOSED LID
- PROPOSED STORM SEWER CLEAN OUT
- HEAVY DUTY AREA DRAIN
- PROPOSED STORM SEWER GREASE INTERCEPTOR
- PROPOSED SANITARY SEWER CLEAN OUT
- PROPOSED SANITARY SEWER GREASE INTERCEPTOR
- PROPOSED SANITARY SEWER SAMPLING WELL
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED WATER SERVICE, VALVE AND VALVE BOX
- PROPOSED TAPPING SLEEVE AND VALVE
- PROPOSED GATE VALVE AND VALVE BOX
- PROPOSED WATER METER AND VAULT
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION (FDC)
- PROPOSED BACKFLOW PREVENTOR
- FIRE SERVICE AND DOMESTIC METER VAULT
- PROPOSED LIGHT POLE
- PROPOSED GAS METER
- PROPOSED ELECTRIC METER, CT CABINET AND DISCONNECT
- PROPOSED TRANSFORMER

NOTE: SEE SHEET C1.0 FOR EXISTING LEGEND



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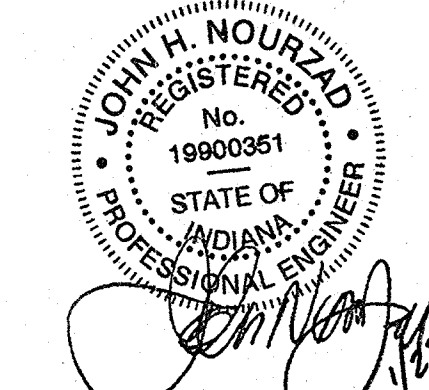
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PROJECT TEAM

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ISSUE/REVISION RECORD

DATE DESCRIPTION
11/30/17 CITY SUBMISSION
01/19/18 REVISED CITY SUBMISSION



PROFESSIONAL IN CHARGE
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PROFESSIONAL ENGINEER
LICENSE NO. PE19900361

PROJECT MANAGER
JEFF RATH

QUALITY CONTROL
LARRY DIEHL

DRAWN BY
MATTHEW H. BUDDIE

PROJECT NAME

TEXAS
ROADHOUSE

CARMEL
INDIANA

14758 N. MERIDIAN STREET



PROJECT NUMBER
20170746.0

SHEET TITLE

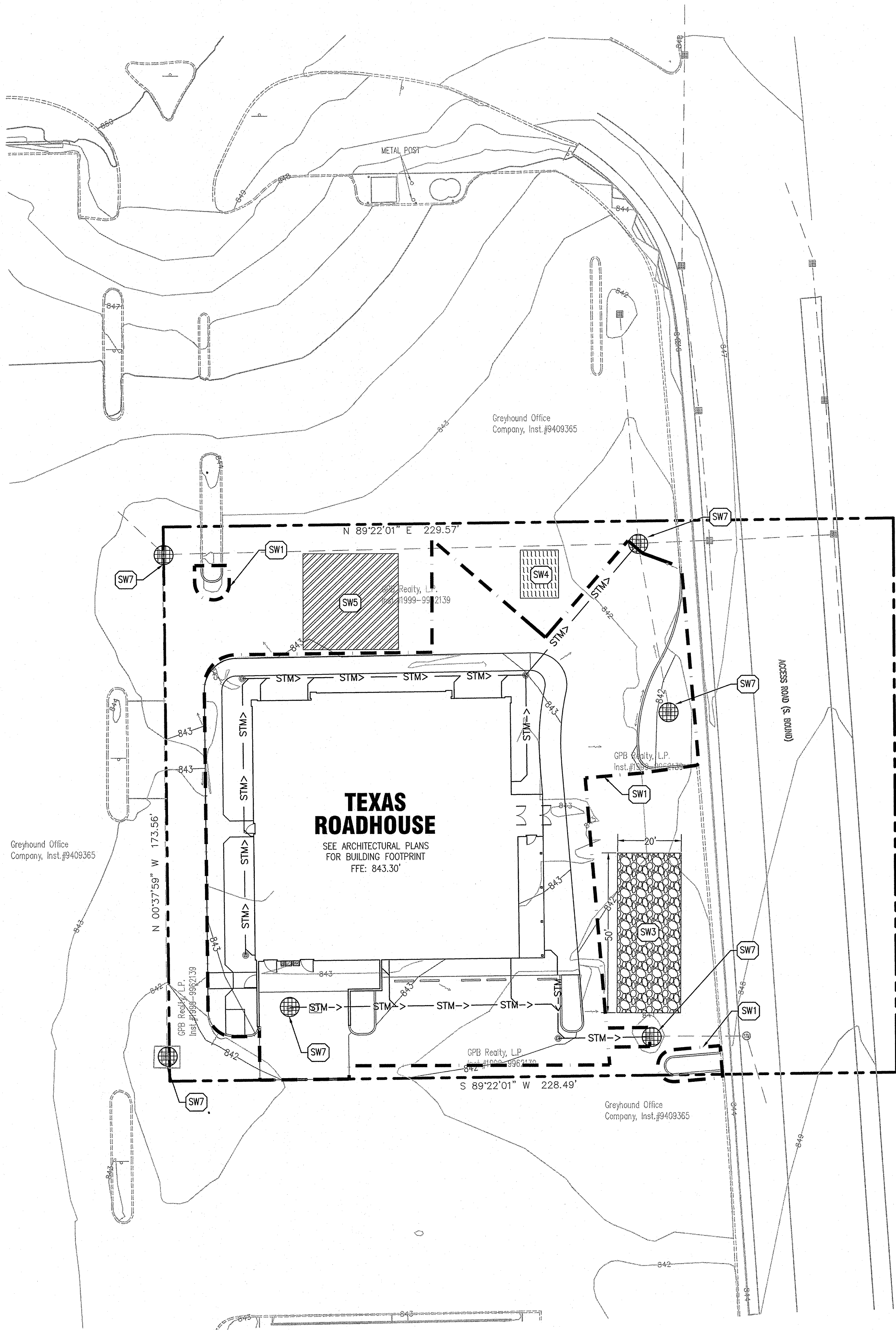
UTILITY
PLAN

SHEET NUMBER

C5.0

SWPPP / SESC NOTES:

- COPIES OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLANS OR STORMWATER POLLUTION PREVENTION PLANS (SWPPP) SHALL BE MAINTAINED ON THE SITE AT ALL TIMES ALONG WITH ANY NECESSARY PERMITS AND INSPECTION FORMS.
- ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED.
- CONTRACTOR SHALL IMPLEMENT SITE SPECIFIC BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN AND REQUIRED BY THE SWPPP/SESC. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED BY THE CONTRACTOR AS DICTATED BY SITE CONDITIONS OR THE PROJECT GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- ALL BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO THE APPLICABLE FEDERAL, STATE, OR LOCAL REQUIREMENTS, STANDARDS, AND SPECIFICATIONS OR MANUAL OF PRACTICE.
- IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL SOIL EROSION, SEDIMENT AND/OR POLLUTION FROM THE PROJECT SITE, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
- INLET PROTECTION SHALL BE INSTALLED AROUND EACH INLET OR CATCH BASIN WITHIN THE VICINITY OF THE DISTURBED AREA LIMITS AS SHOWN ON THE PLANS. THESE SHALL BE MAINTAINED UNTIL THE TRIBUTARY DRAINAGE AREAS HAVE ADEQUATE GRASS COVER AND/OR APPROPRIATE GROUND STABILIZATION.
- ALL STREETS ADJACENT TO THE PROJECT SITE SHALL BE KEPT FREE OF DIRT, MUD AND DEBRIS. CONTRACTOR SHALL CLEAN ADJACENT PAVEMENTS AT THE END OF EACH WORKING DAY WHEN NECESSARY.
- CONTRACTORS SHALL MINIMIZE BARE EARTH SURFACES DURING CONSTRUCTION TO THE EXTENT PRACTICABLE.
- ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS IS PRACTICABLE.
- IF DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- SUFFICIENT AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST SHALL BE ADEQUATELY CONTROLLED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED TRASH CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED OR OTHERWISE DISCHARGED FROM THE SITE INTO SEDIMENT BASINS, SILT TRAPS, DEWATERING BAGS OR POLYMER MIXING SWALES. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER SYSTEMS IS PROHIBITED.
- ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED WITHIN THREE (3) DAYS OF FINAL DISTURBANCE.
- ALL SOIL STOCKPILES SHALL BE STABILIZED WITHIN THREE (3) DAYS OF FORMING THE STOCKPILE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AS FOLLOWS:
 - WHEN THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
 - WHEN CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED (I.E. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASES.
- PRE-QUALIFIED PERSONNEL (PROVIDED BY THE CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). REQUIRED REPAIRS SHOULD BE COMPLETED WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
- EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 4:1 SLOPE OR STEEPER.
- ALL TEMPORARY EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE PROPERLY STABILIZED OR DISPOSED OF OFF SITE BY THE CONTRACTOR.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY STORM WATER POLLUTION PREVENTION PLAN SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR REVIEW.
- ALL CONSTRUCTION VEHICLE TRAFFIC MUST REMAIN WITHIN THE LIMITS OF CONSTRUCTION.



PROPOSED LEGEND:

- PROPERTY LINE
- 50 PROPOSED CONTOUR
- LAND DISTURBANCE LIMITS (SEE DISTURBED AREA TABLE)
- SF PROPOSED SILT FENCE
- PROPOSED INLET PROTECTION INSERT
- PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED CONCRETE WASHOUT (SUGGESTED LOCATION)
- PROPOSED CONTRACTOR STAGING AREA (SUGGESTED LOCATION)
- PROPOSED GRAVEL FILTER BAG
- PROPOSED GRADING RIDGE LINE
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED STORM SEWER STRUCTURES
- STM> PROPOSED STORM SEWER

SWPPP KEY NOTES:

- SW1 PROPOSED PROJECT LAND DISTURBANCE LIMITS
- SW2 PROPOSED SILT FENCE
- SW3 PROPOSED STABILIZED CONSTRUCTION ENTRANCE
- SW4 PROPOSED CONCRETE WASHOUT WITH MINIMUM 30-MIL POLYETHYLENE LINING AND LOCATION SIGNAGE
- SW5 PROPOSED CONTRACTOR STAGING AREA INCLUDING MATERIALS STORAGE, COVERED TRASH DUMPSTER, AND PORTABLE TOILET FACILITIES
- SW7 PROPOSED INLET PROTECTION

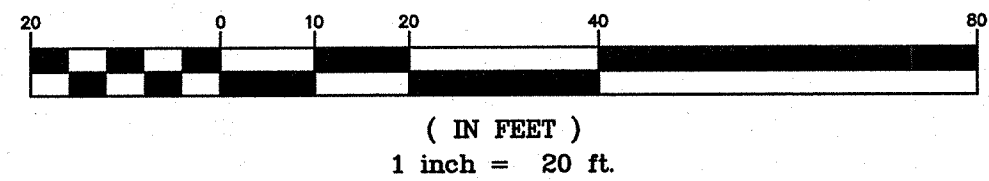
SWPPP/SESC CONSTRUCTION SCHEDULE:

- OBTAIN ALL APPLICABLE SITE PERMITS AND THOROUGHLY REVIEW PROJECT'S SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC) OR STORMWATER POLLUTION PREVENTION PLANS (SWPPP) PRIOR TO COMMENCEMENT OF CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND UPDATING THE SWPPP/SESC THROUGHOUT THE DURATION OF CONSTRUCTION AS NECESSARY UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
- INSTALL PERIMETER SEDIMENT CONTROL MEASURES (I.E. SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE).
- INSTALL INLET PROTECTION DEVICES FOR EXISTING STORM SEWER INLETS AND DRAINAGE STRUCTURES.
- PERFORM SITE INSPECTIONS ON A WEEKLY BASIS AND WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS 0.5 INCH OR GREATER (OR EQUIVALENT SNOWFALL). AT A MINIMUM, THE INSPECTIONS SHALL INCLUDE THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, ALL STRUCTURAL CONTROL MEASURES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND ANY ADDITIONAL BEST MANAGEMENT PRACTICES IDENTIFIED IN THE SWPPP/SESC.
 - ALL SITE EROSION AND SEDIMENT CONTROL MEASURES AND BEST MANAGEMENT PRACTICES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL MAKE AND COMPLETE THE REQUIRED REPAIRS WITHIN FORTY-EIGHT (48) HOURS OF THE INSPECTION.
 - CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL STRUCTURAL CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE SITE INSPECTIONS.
- INSTALL NEW STORM SEWERS AND OTHER SITE UTILITIES AS INDICATED ON THE PLANS.
- PROVIDE TEMPORARY SEEDING AND/OR MULCHING FOR ALL DISTURBED SITE AREAS THAT WILL NOT BE WORKED ON FOR MORE THAN FOURTEEN (14) DAYS.
- INSTALL TEMPORARY CONCRETE WASHOUT FACILITY PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK ON SITE.
- INSTALL CURBS AND BEGIN SITE PAVING OPERATIONS (I.E. DRIVEWAYS, SIDEWALKS, ETC.).
- PERFORM STREET CLEANING OPERATIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED FOR AREAS ADJACENT TO THE PROJECT SITE.
- INSTALL BUILDING FOUNDATION AND COMPLETE BUILDING CONSTRUCTION AND REMAINING SITE IMPROVEMENTS.
- REMOVE ALL TEMPORARY SITE EROSION AND SEDIMENT CONTROL MEASURES WITHIN THIRTY (30) DAYS OF FINAL SITE STABILIZATION ONCE PERMANENT STABILIZATION OF THE ENTIRE SITE HAS BEEN COMPLETED AND ALL GROUND COVER IS ESTABLISHED.

DISTURBED SITE AREA TABLE:

TOTAL DISTURBED AREA: 18,983 SQ. FT. / 0.44 ACRES

GRAPHIC SCALE



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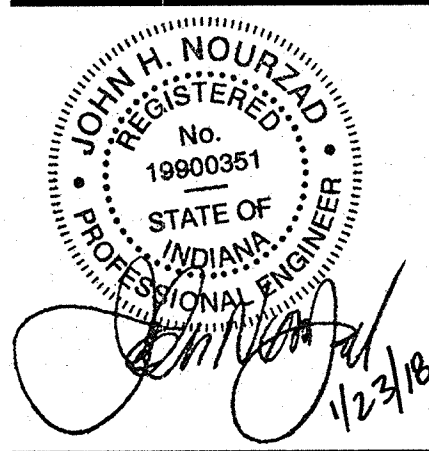
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PROJECT TEAM

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ISSUE/REVISION RECORD

| DATE | DESCRIPTION |
|----------|-------------------------|
| 11/30/17 | CITY SUBMISSION |
| 01/19/18 | REVISED CITY SUBMISSION |



PROFESSIONAL IN CHARGE
JOHN NOURZAD
PROFESSIONAL ENGINEER
LICENSE NO. PE19900351

PROJECT MANAGER
JEFF RATH

QUALITY CONTROL
LARRY DIEHL

DRAWN BY
MATTHEW H. BUDE

PROJECT NAME

TEXAS ROADHOUSE

CARMEL INDIANA

14758 N. MERIDIAN STREET

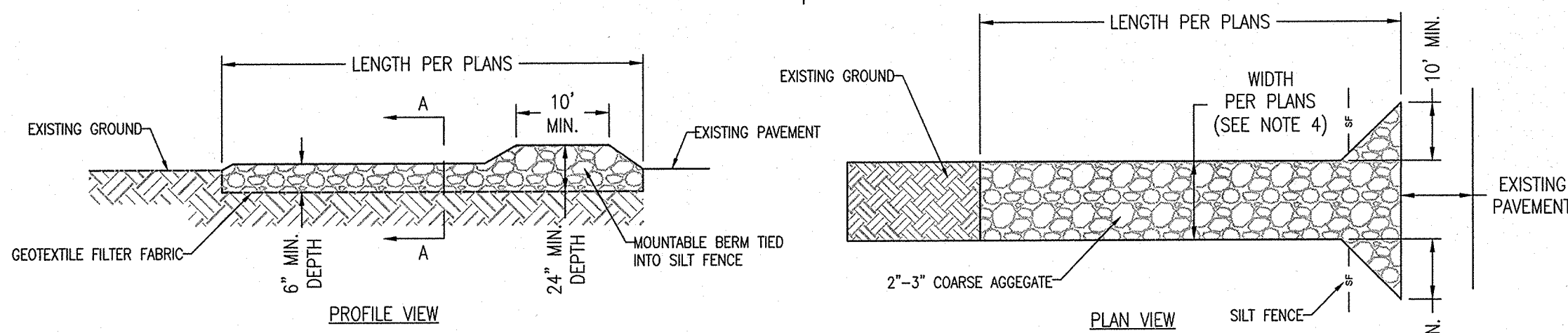


PROJECT NUMBER
20170746.0

SHEET TITLE
SWPPP

SHEET NUMBER

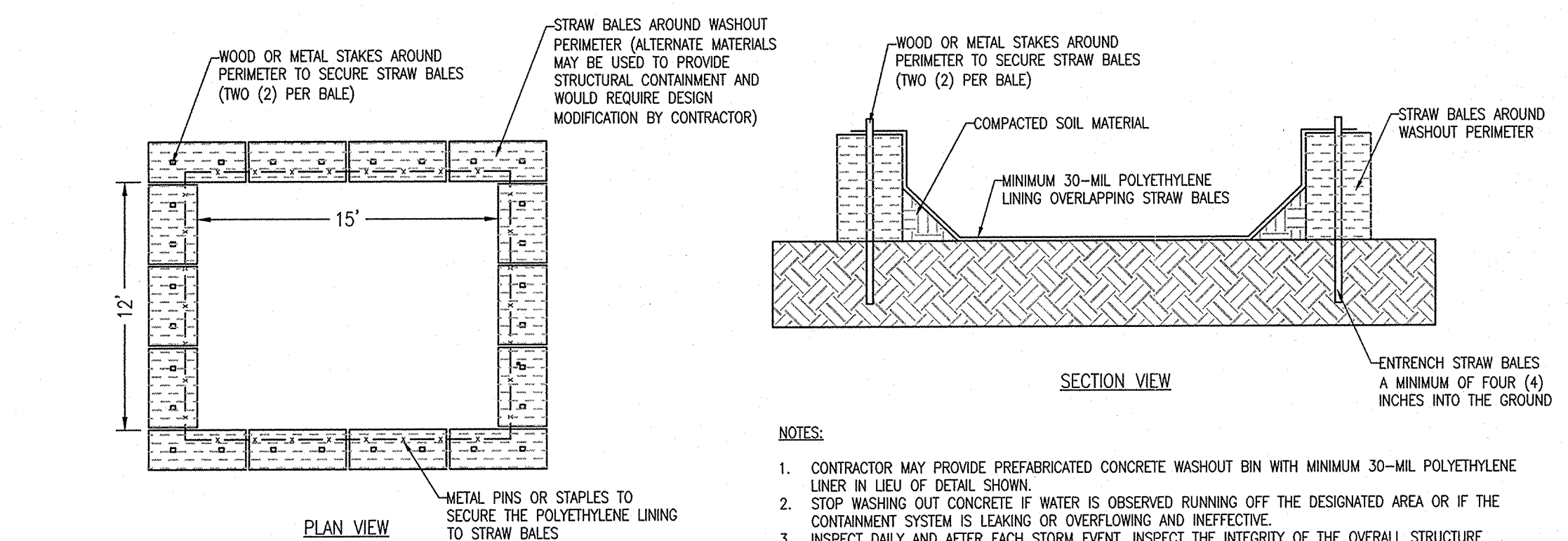
C6.0



- NOTES:**
1. STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO THE ONSET OF CONSTRUCTION OPERATIONS AND SHALL BE CONTINUOUSLY MAINTAINED THROUGHOUT THE ENTIRE PROJECT DURATION TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL DEPOSITED ONTO A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORKING DAY.
 2. GEOTEXTILE FILTER FABRIC SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING COARSE AGGREGATE. STONE SHALL BE COARSE AGGREGATE AND SHALL BE DUMPED, SPREAD AND COMPACTED INTO POSITION. LAYERS SHALL NOT EXCEED THREE (3) FEET IN THICKNESS.
 3. SEE PLANS FOR ACTUAL CONSTRUCTION ENTRANCE LOCATION AND OVERALL DIMENSIONS. MINIMUM WIDTH IS FOURTEEN (14) FEET FOR ONE-WAY TRAFFIC AND TWENTY (20) FEET FOR TWO-WAY TRAFFIC. TWO-WAY TRAFFIC WIDTH SHALL BE INCREASED A MINIMUM OF FOUR (4) FEET FOR TRAILER TRAFFIC.
 4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

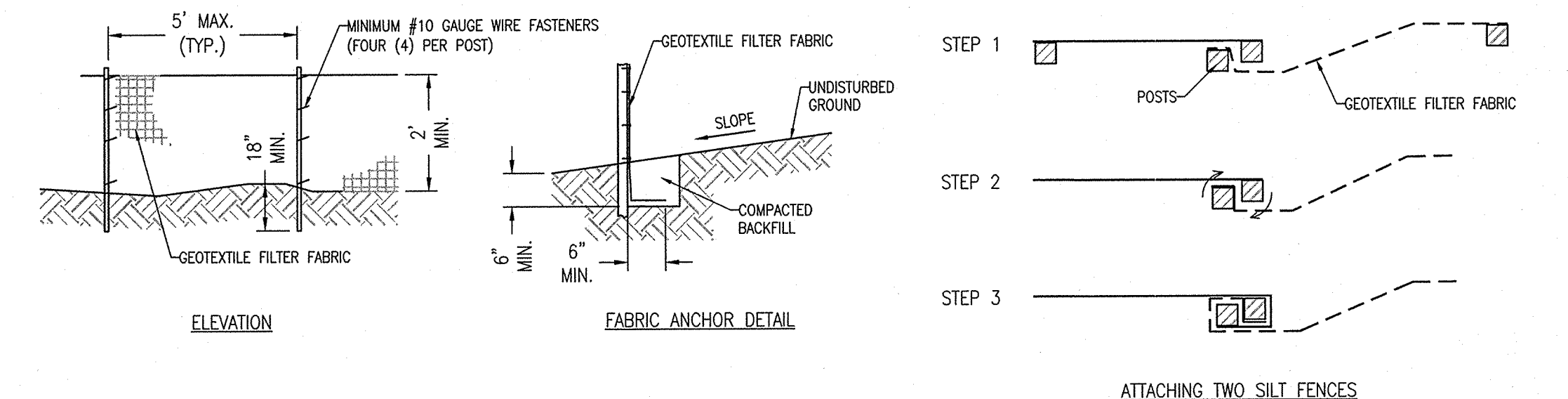
STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



CONCRETE WASHOUT DETAIL

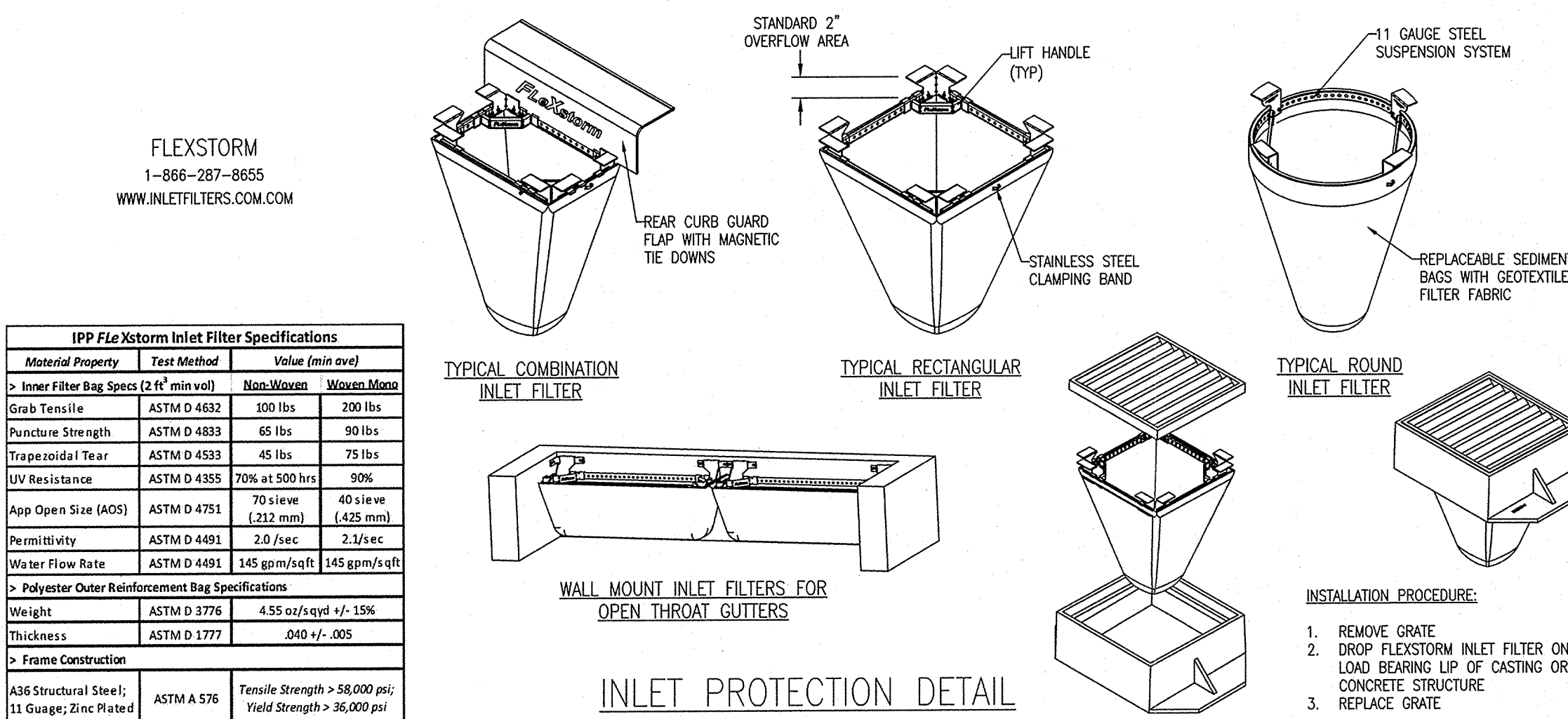
NOT TO SCALE



- NOTES:**
1. TEMPORARY SILT FENCE SHALL BE INSTALLED AROUND PROJECT PERIMETER PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. GEOTEXTILE FILTER FABRIC SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 3. FENCE POSTS SHALL BE EITHER STANDARD STEEL OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF THREE (3) SQUARE INCHES.

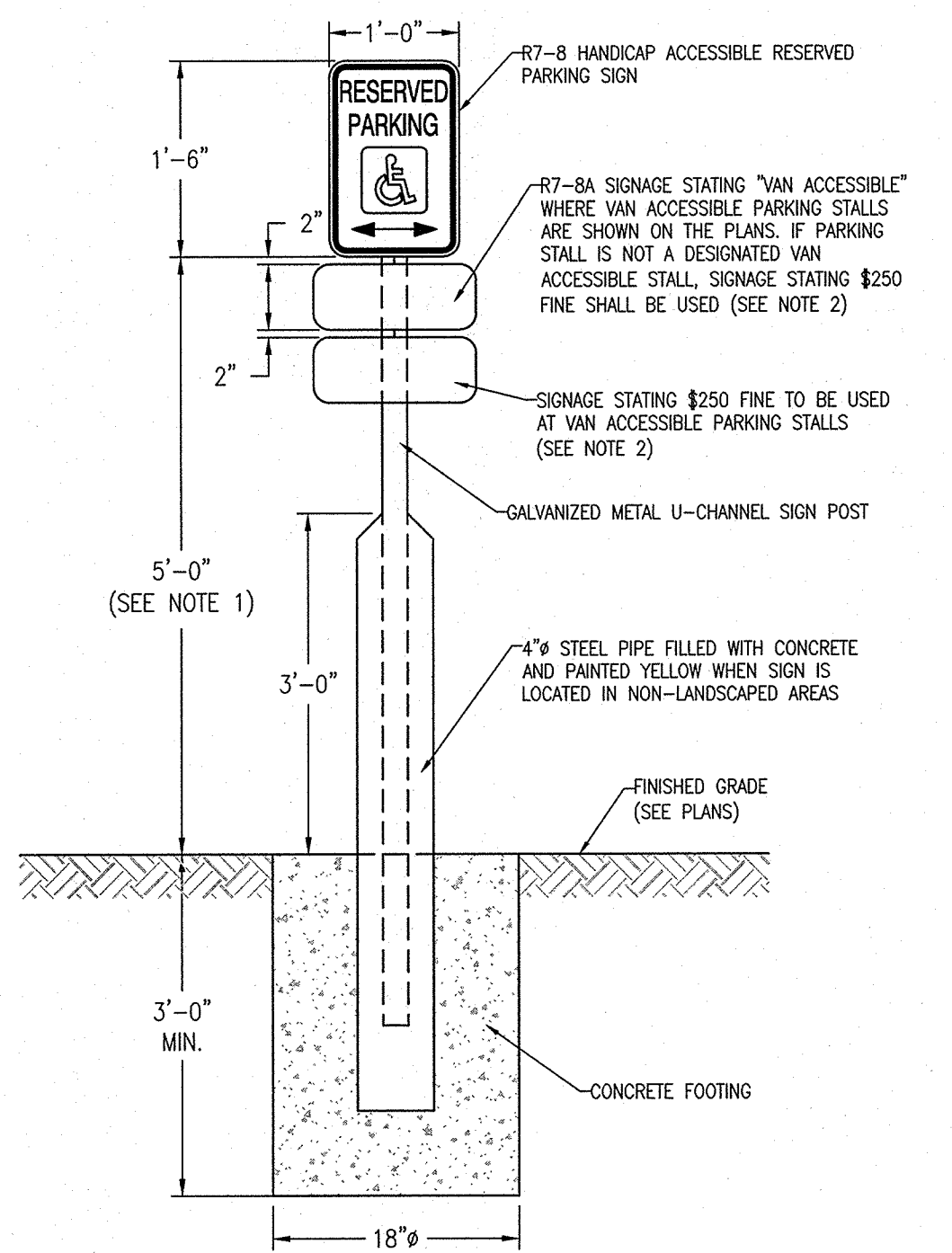
SILT FENCE DETAIL

NOT TO SCALE



INLET PROTECTION DETAIL

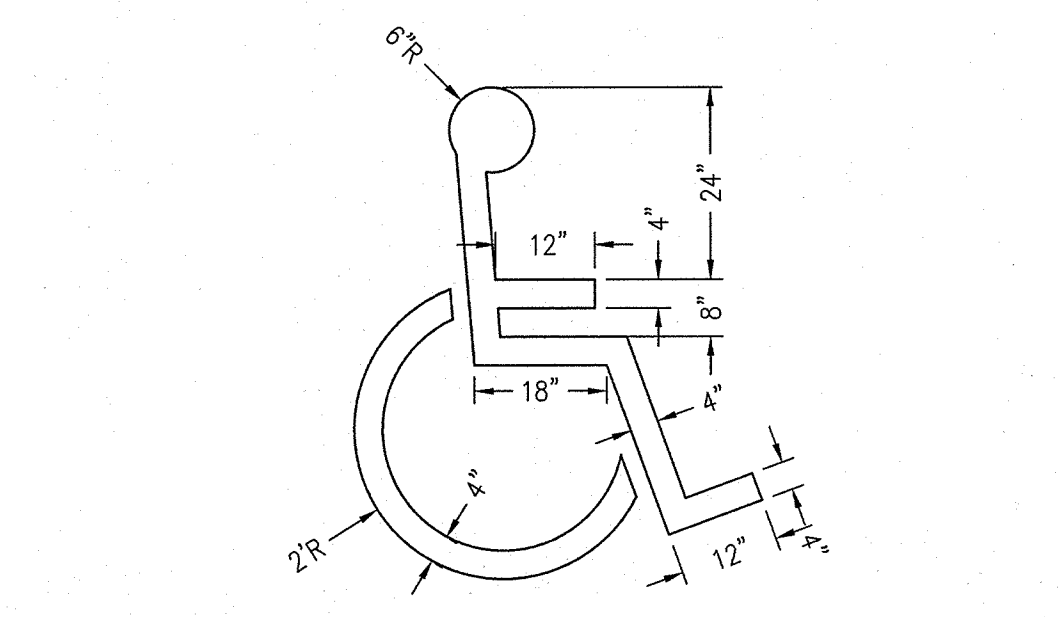
NOT TO SCALE



- NOTES:**
1. ACCESSIBLE PARKING SIGNS SHALL BE CENTERED AT THE FRONT OF EACH PARKING STALL AND INSTALLED WITH A MINIMUM HEIGHT OF FIVE (5) FEET ABOVE FINISHED PAVEMENT OR GRADE ELEVATION UNLESS OTHERWISE DIRECTED BY LOCAL BUILDING CODES.
 2. CONTRACTOR SHALL VERIFY FINE AMOUNT WITH LOCAL BUILDING CODES PRIOR TO INSTALLATION.

ACCESSIBLE PARKING SIGN DETAIL

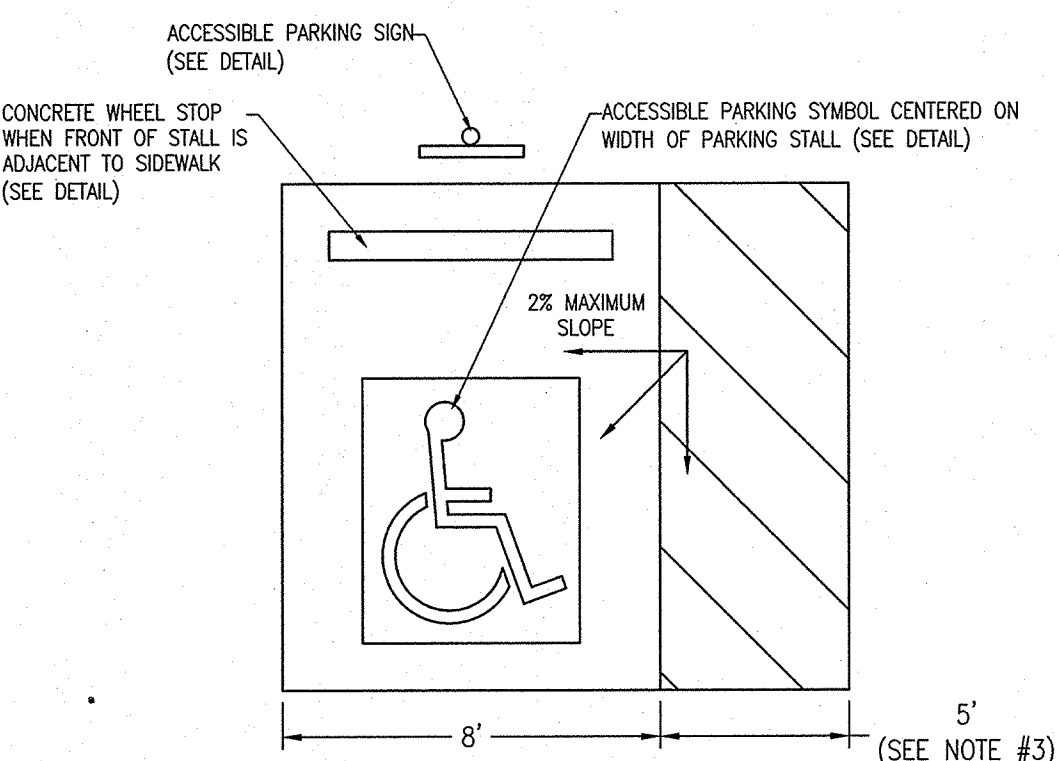
NOT TO SCALE



- NOTE:**
1. SYMBOL SHALL BE CENTERED ON WIDTH OF PARKING STALL AND PAINTED WHITE ON BLUE BACKGROUND UNLESS OTHERWISE DIRECTED BY LOCAL BUILDING CODES.

ACCESSIBLE PARKING SYMBOL DETAIL

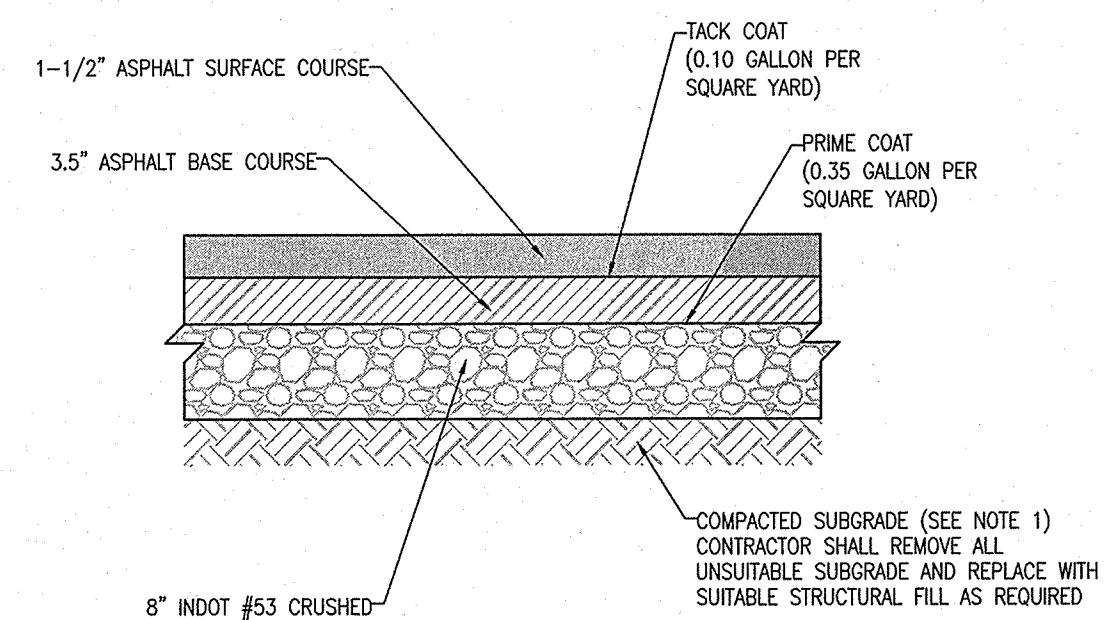
NOT TO SCALE



- NOTES:**
1. ALL PAVEMENT STRIPING SHALL BE YELLOW UNLESS OTHERWISE DIRECTED BY LOCAL BUILDING CODES.
 2. MAXIMUM SLOPE WITHIN ALL HANDICAP ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION.
 3. ACCESS AISLE WIDTH SHALL BE 8' FOR VAN ACCESSIBLE STALLS (SEE PLANS FOR LOCATIONS).

ACCESSIBLE PARKING STALL DETAIL

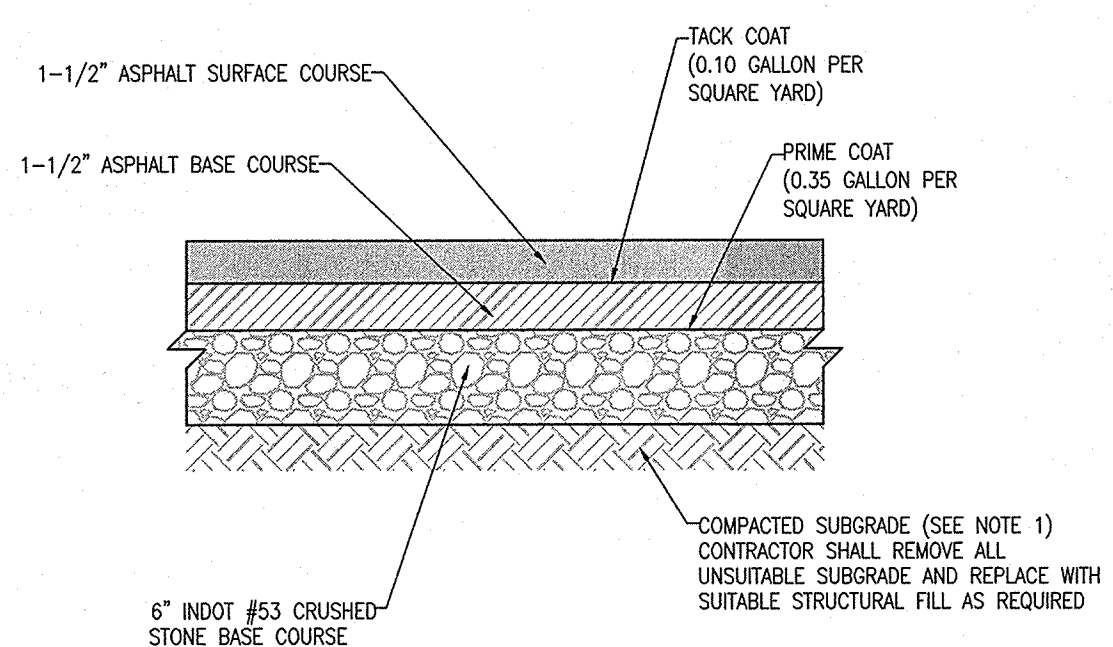
NOT TO SCALE



- NOTES:**
1. SEE GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE COMPACTION AND PREPARATION REQUIREMENTS.

HEAVY DUTY ASPHALT PAVEMENT DETAIL

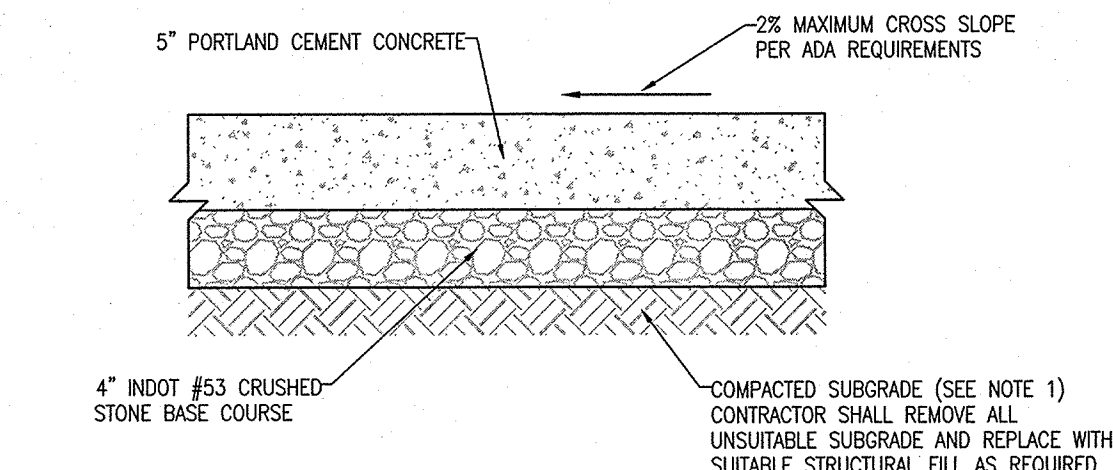
NOT TO SCALE



- NOTES:**
1. SEE GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE COMPACTION AND PREPARATION REQUIREMENTS.

ASPHALT PAVEMENT DETAIL

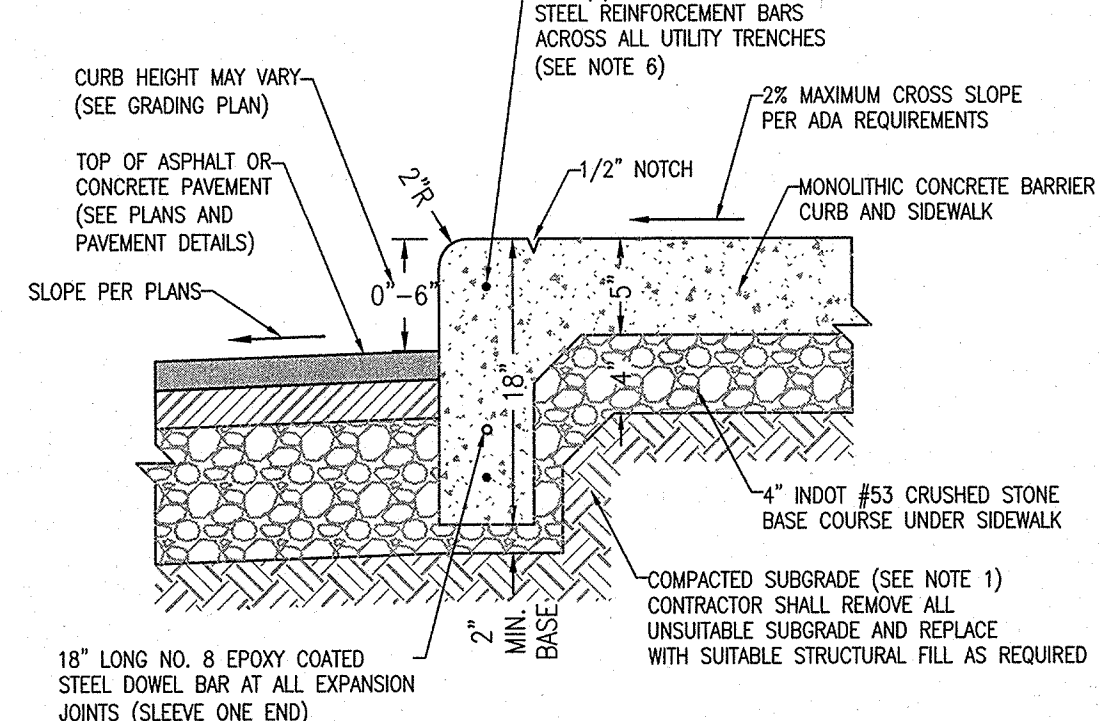
NOT TO SCALE



- NOTES:**
1. SEE GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE COMPACTION AND PREPARATION REQUIREMENTS.
 2. ALL PORTLAND CEMENT CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 3. PROVIDE INTEGRAL BLACK COLORED CONCRETE PER PROJECT SPECIFICATIONS WHERE INDICATED ON THE PLANS.
 4. CONTROL JOINTS SHALL BE INSTALLED AT FIVE (5) FEET ON CENTER UNLESS OTHERWISE NOTED.
 5. EXPANSION JOINTS SHALL BE INSTALLED AT FIFTY (50) FEET ON CENTER, SIDEWALK RADIUS POINTS, ALL LOCATIONS WHERE NEW CONCRETE SIDEWALKS ADJOIN EXISTING CONCRETE AND FIVE (5) FEET ON EACH SIDE OF ALL UTILITY CASTINGS ADJACENT TO NEW CONCRETE.
 6. INSTALL TWO (2) CONTINUOUS NO. 4 STEEL REBAR PERPENDICULAR TO AND CENTERED OVER ALL UTILITY TRENCH CROSSINGS SO BARS EXTEND A MINIMUM OF FIVE (5) FEET BEYOND TRENCH.

CONCRETE SIDEWALK DETAIL

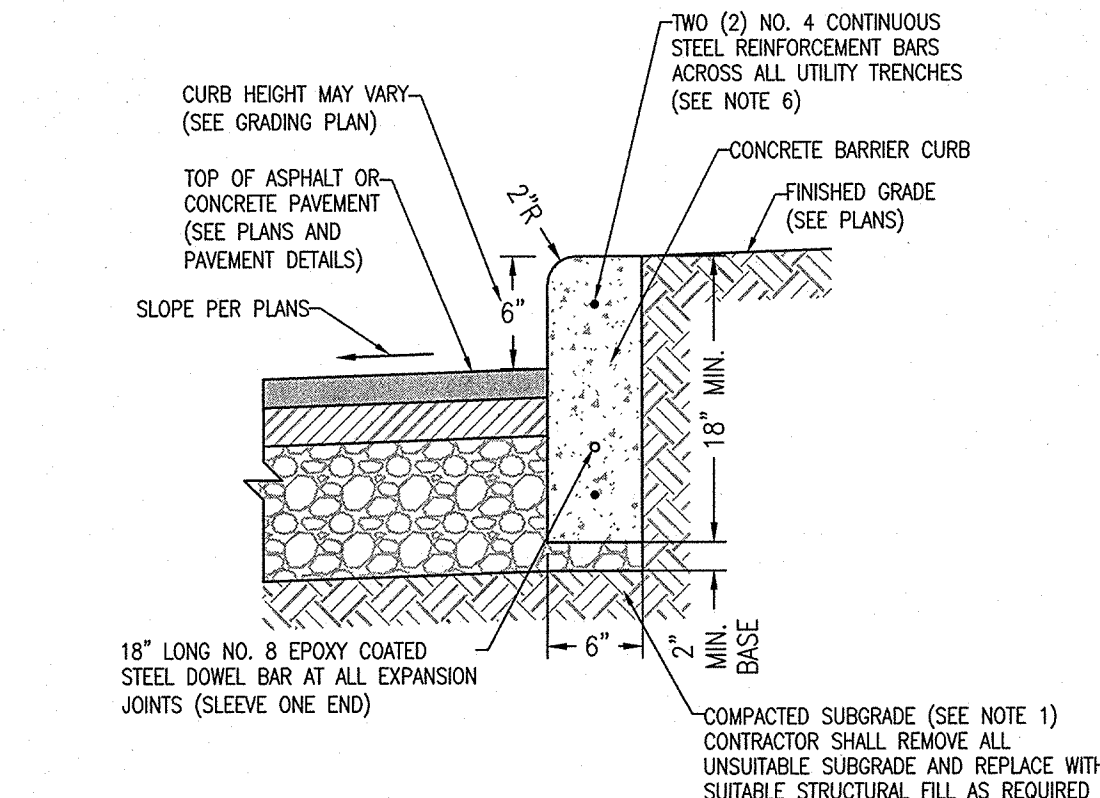
NOT TO SCALE



- NOTES:**
1. SEE GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE COMPACTION AND PREPARATION REQUIREMENTS.
 2. ALL PORTLAND CEMENT CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 3. PROVIDE INTEGRAL BLACK COLORED CONCRETE SIDEWALK PER PROJECT SPECIFICATIONS WHERE INDICATED ON THE PLANS.
 4. CONTROL JOINTS SHALL BE INSTALLED AT FIVE (5) FEET ON CENTER FOR SIDEWALKS AND TEN (10) FEET ON CENTER FOR CURBS UNLESS OTHERWISE NOTED.
 5. EXPANSION JOINTS SHALL BE INSTALLED AT FIFTY (50) FEET ON CENTER, CURB AND SIDEWALK RADIUS POINTS, ALL LOCATIONS WHERE NEW CONCRETE SIDEWALKS OR CURBS ADJOIN EXISTING CONCRETE AND FIVE (5) FEET ON EACH SIDE OF ALL UTILITY CASTINGS ADJACENT TO NEW CONCRETE.
 6. INSTALL TWO (2) CONTINUOUS NO. 4 STEEL REINFORCEMENT BARS PERPENDICULAR TO AND CENTERED OVER ALL UTILITY TRENCH CROSSINGS SO BARS EXTEND A MINIMUM OF FIVE (5) FEET BEYOND TRENCH.

MONOLITHIC CONCRETE CURB AND SIDEWALK DETAIL

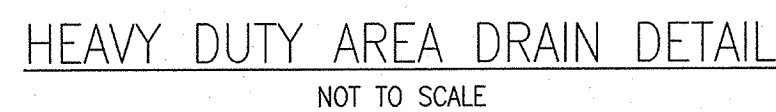
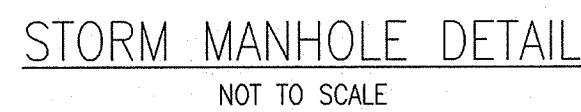
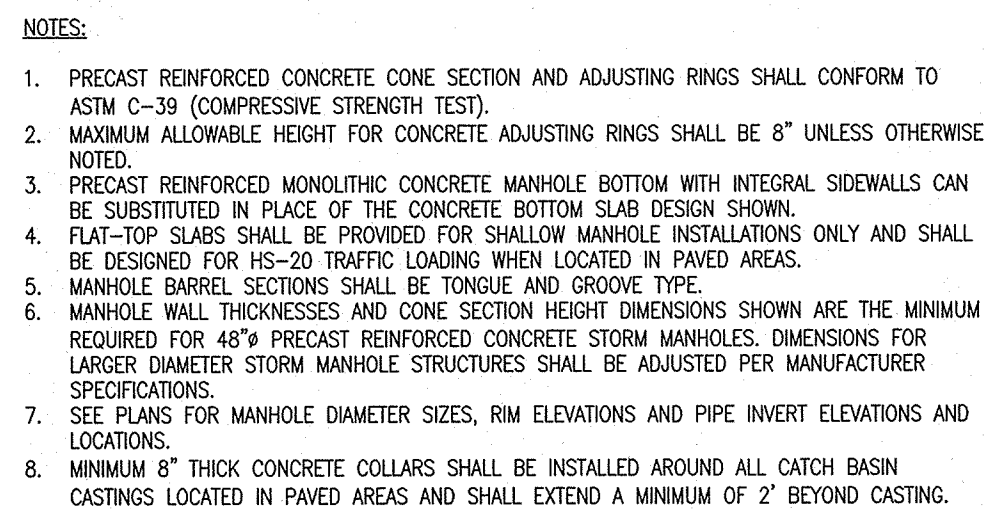
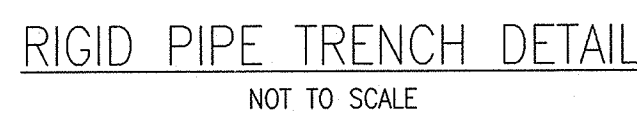
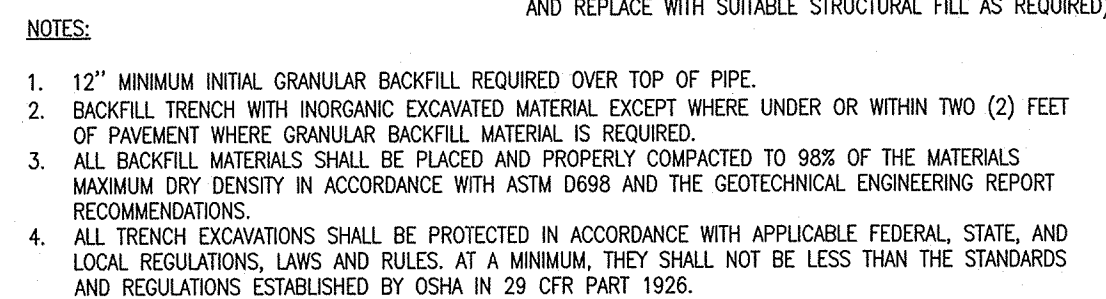
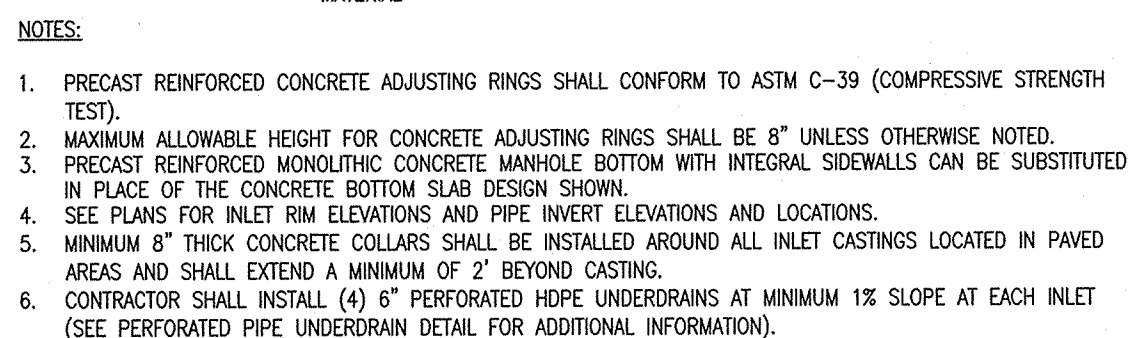
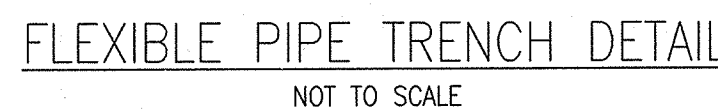
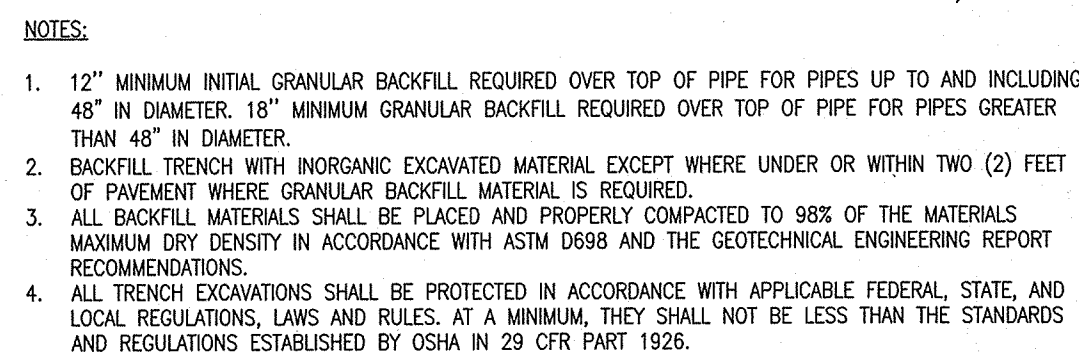
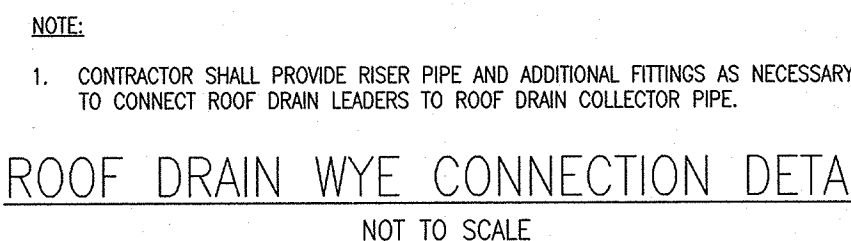
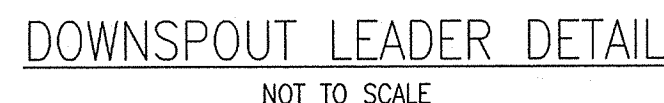
NOT TO SCALE

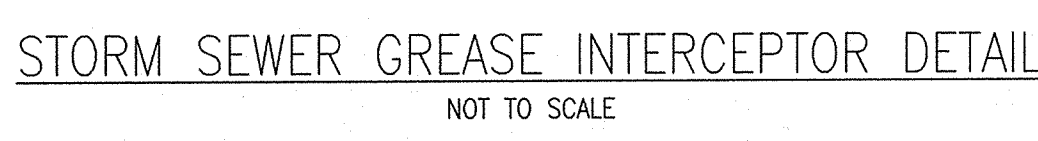
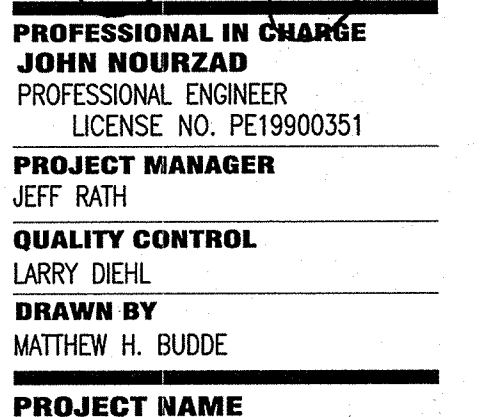


- NOTES:**
1. SEE GEOTECHNICAL ENGINEERING REPORT FOR SUBGRADE COMPACTION AND PREPARATION REQUIREMENTS.
 2. ALL PORTLAND CEMENT CONCRETE SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 3. BASE COURSE SHALL BE 4\"/>

CONCRETE BARRIER CURB DETAIL

NOT TO SCALE





CERTIFICATE OF LAND SURVEY
This Land Survey, prepared by SEA Group Land Surveyors, is hereby certified to the following:

To:
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1-4, 7(a), 7(b)(1), 8, 9, 11 and 13 of Table A thereof. The fieldwork was completed on 8/18/17.

Date: September 5, 2017
PROFORMA

James M. Fozekas
Registered Land Surveyor of the State of Indiana
Registration Number LS20600029

Land Description
PARCEL 1:
A PART OF THE SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 18 NORTH, RANGE 3 EAST LOCATED IN WASHINGTON TOWNSHIP, HAMILTON COUNTY, INDIANA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 18 NORTH, RANGE 3 EAST; THENCE SOUTH 88°36'49" WEST (ASSUMED BEARING) 808.29 FEET ALONG THE SOUTH LINE OF SAID SOUTHEAST QUARTER TO THE SOUTHWESTERN CORNER OF A 7.83 ACRE TRACT GRANTED TO A DONALD DUKE AND DORIS R. DUKE ("DUKE") (RECORDED IN DEED RECORD 341 PAGE 594 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER); THENCE NORTH 00°37'59" WEST 1293.27 FEET ALONG THE WESTERN-LINE OF SAID "DUKE" TRACT AND ALONG THE WESTERN LINE OF A 13.277 ACRE TRACT GRANTED TO GREYHOUND OFFICE COMPANY ("GREYHOUND") (RECORDED IN INSTRUMENT NUMBER 9409365 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER) AND ALONG THE WESTERN LINE OF A 1.116 ACRE TRACT GRANTED TO HAMILTON WESTERN UTILITIES, INC. ("HAMILTON") (RECORDED IN INSTRUMENT NUMBER 9609632545 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER) TO THE NORTHWESTERN CORNER OF SAID "HAMILTON" TRACT; THENCE NORTH 89°22'01" EAST 226.51 FEET ALONG THE NORTHERN LINE-OF SAID "HAMILTON" TRACT TO A POINT ON THE CENTERLINE OF GREYHOUND PASS, SAID POINT BEING ON A NON-TANGENT CURVE CONCAVE TO THE NORTHEAST AND LYING SOUTH 58°03'44" WEST 300.00 FEET FROM THE RADIUS POINT OF SAID CURVE; THENCE SOUTHEASTERLY ALONG SAID CURVE AND ALONG SAID CENTERLINE 288.65 FEET TO ITS POINT OF TANGENCY; SAID POINT OF TANGENCY LYING SOUTH 02°56'01" WEST 300.00 FEET FROM THE RADIUS POINT OF SAID CURVE; THENCE SOUTH 87°03'59" EAST 195.93 FEET ALONG SAID CENTERLINE TO THE EASTERN CORNER OF SAID "HAMILTON" TRACT; SAID CORNER BEING ON THE NORTHERN LINE-OF SAID "GREYHOUND" TRACT AND LYING NORTH 89°22'52" EAST 659.74 FEET FROM THE NORTHWESTERN CORNER THEREOF; THENCE NORTH 89°42'52" EAST 85.83 FEET ALONG THE NORTHERN LINE OF SAID "GREYHOUND" TRACT TO THE NORTHERLY PROJECTION OF THE WESTERN LIMITED ACCESS RIGHT-OF-WAY LINE OF U.S. 31 (PER THE INDIANA STATE HIGHWAY COMMISSION RIGHT-OF-WAY PLANS FOR S-PROJECT NO. S-165 (14) (1960) (SAID LIMITED ACCESS RIGHT-OF-WAY LINE BEING 105.00 FEET (MEASURED WESTERLY IN A PERPENDICULAR DIRECTION) FROM LINE "NN" AS PER SAID PLANS; THENCE SOUTH 00°16'39" EAST 38.09 FEET ALONG SAID NORTHERLY PROJECTION AND PARALLEL WITH SAID LINE "NN" TO A POINT ON SAID LIMITED ACCESS RIGHT-OF-WAY LINE KNOWN AS P.O.T. 567+74.48, 105 FEET LEFT OF SAID LINE "NN"; THENCE CONTINUE SOUTH 00°16'39" EAST 122.66 FEET ALONG SAID LIMITED ACCESS RIGHT-OF-WAY LINE, THENCE SOUTH 68°36'57" WEST 118.52 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00°37'59" EAST 45.50 FEET; THENCE NORTH 89°22'01" EAST 3.00 FEET; THENCE SOUTH 00°37'59" EAST 19.78 FEET; THENCE SOUTH 89°22'01" WEST 3.00 FEET; THENCE SOUTH 00°37'59" EAST 34.27 FEET; THENCE SOUTH 89°22'01" WEST 107.00 FEET; THENCE NORTH 00°37'59" WEST 99.57 FEET; THENCE NORTH 89°22'47" EAST 1.07.00 FEET TO THE POINT OF BEGINNING, CONTAINING 10,712 SQUARE FEET, MORE OR LESS.

PARCEL 2: (PARKING EASEMENT)
NON-EXCLUSIVE PERPETUAL EASEMENT FOR THE BENEFIT OF PARCEL 1 OVER THE FOLLOWING DESCRIBED LAND:
A PART OF THE SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 18 NORTH, RANGE 3 EAST LOCATED IN WASHINGTON TOWNSHIP, HAMILTON COUNTY, INDIANA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 18 NORTH, RANGE 3 EAST; THENCE SOUTH 88°36'49" WEST (ASSUMED BEARING) 808.29 FEET ALONG THE SOUTH LINE OF SAID SOUTHEAST QUARTER TO THE SOUTHWESTERN CORNER OF A 7.83 ACRE TRACT GRANTED TO A DONALD DUKE AND DORIS R. DUKE ("DUKE") (RECORDED IN DEED RECORD 341 PAGE 594 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER); THENCE NORTH 00°37'59" WEST 1293.27 FEET ALONG THE WESTERN LINE-OF SAID "DUKE" TRACT AND ALONG THE WESTERN LINE OF A 13.277 ACRE TRACT GRANTED TO GREYHOUND OFFICE COMPANY ("GREYHOUND") (RECORDED IN INSTRUMENT NUMBER 9409365 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER) AND ALONG THE WESTERN LINE OF A 1.116 ACRE TRACT GRANTED TO HAMILTON WESTERN UTILITIES, INC. ("HAMILTON") (RECORDED IN INSTRUMENT NUMBER 9609632545 IN THE OFFICE OF THE HAMILTON COUNTY RECORDER) TO THE NORTHWESTERN CORNER OF SAID "HAMILTON" TRACT; THENCE NORTH 89°22'01" EAST 226.51 FEET ALONG THE NORTHERN LINE OF SAID "HAMILTON" TRACT TO A POINT ON THE CENTERLINE OF GREYHOUND PASS, SAID POINT BEING ON A NON-TANGENT CURVE CONCAVE TO THE NORTHEAST AND LYING SOUTH 58°03'44" WEST 300.00 FEET FROM THE RADIUS POINT OF SAID CURVE; THENCE SOUTHEASTERLY ALONG SAID CURVE AND ALONG SAID CENTERLINE 288.65 FEET TO ITS POINT OF TANGENCY; SAID POINT OF TANGENCY LYING SOUTH 02°56'01" WEST 300.00 FEET FROM THE RADIUS POINT OF SAID CURVE; THENCE SOUTH 87°03'59" EAST 195.93 FEET ALONG SAID CENTERLINE TO THE EASTERN CORNER OF SAID "HAMILTON" TRACT; SAID CORNER BEING ON THE NORTHERN LINE-OF SAID "GREYHOUND" TRACT AND LYING NORTH 89°22'52" EAST 659.74 FEET FROM THE NORTHWESTERN CORNER THEREOF; THENCE NORTH 89°42'52" EAST 85.83 FEET ALONG THE NORTHERN LINE-OF SAID "GREYHOUND" TRACT TO THE NORTHERLY PROJECTION OF THE WESTERN LIMITED ACCESS RIGHT-OF-WAY LINE OF U.S. 31 (PER THE INDIANA STATE HIGHWAY COMMISSION RIGHT-OF-WAY PLANS FOR S-PROJECT NO. S-165(14) (1960) (SAID LIMITED ACCESS RIGHT-OF-WAY LINE BEING 105.00 FEET (MEASURED WESTERLY IN A PERPENDICULAR DIRECTION) FROM LINE "NN" AS PER SAID PLANS; THENCE SOUTH 00°16'39" EAST 38.09 FEET ALONG SAID NORTHERLY PROJECTION AND PARALLEL WITH SAID LINE "NN" TO A POINT ON SAID LIMITED ACCESS RIGHT-OF-WAY LINE KNOWN AS P.O.T. 567+74.48, 105 FEET LEFT OF SAID LINE "NN"; THENCE CONTINUE SOUTH 00°16'39" EAST 122.66 FEET ALONG SAID LIMITED ACCESS RIGHT-OF-WAY LINE TO THE POINT OF BEGINNING OF THE DESCRIPTION; THENCE CONTINUE SOUTH 00°16'39" EAST 173.57 FEET ALONG SAID LIMITED ACCESS RIGHT-OF-WAY LINE; THENCE SOUTH 89°22'01" WEST 228.49 FEET PERPENDICULAR TO THE WESTERN LINE OF GRANTOR; THENCE NORTH 00°37'59" WEST 173.56 FEET PARALLEL WITH THE WESTERN LINE OF GRANTOR; THENCE NORTH 89°22'01" EAST 229.57 FEET PERPENDICULAR TO THE WESTERN LINE OF THE GRANTOR TO THE POINT OF BEGINNING.

Land Surveyor's Report
In direct accordance with the laws governing the State of Indiana, of the United States of America, and following Title 865 State Board of Registration for Land Surveyors, Article 1, General Provisions, Rule 12, Land Surveyors' Complete Practice, of the Indiana Administrative Code (IAC), the following beliefs, opinions, observations, conclusions, and information are hereby submitted for record. The degree of precision and accuracy necessary for a survey shall be based upon the intended use of the real estate. If the client does not provide information regarding the intended use, the classification of the survey shall be based on the current use of the real estate. The surveyed premises shown hereon are classified as an Urban Survey, having an acceptable relative positional accuracy of 0.07 feet plus 50 parts per million.

The purpose of this project was to perform and prepare a Retracement Survey on the real estate that has been described hereon, under direction and instructions from the client.

Relative positional accuracy (RPA) means the value expressed in feet or meters that represents the uncertainty due to random errors in measurements in the location of any point on a survey relative to any other point on the same survey at a ninety-five percent (95%) confidence level. There may be unwritten rights associated with these uncertainties. The amount of uncertainty created by any discrepancies in the lines of occupation is equal to that discrepancy itself and in situations where that uncertainty is less than that of the appropriate RPA, it may have been considered negligible and gone unnoticed. Unless otherwise noted or shown on the within survey plot, there is no evidence of occupation along the perimeter lines of the subject real estate.

This plot of survey accurately shows the location of all visible improvements, unless noted otherwise, on the premises as of the date of last field work for this project. Also shown are all lines of occupation and their relationship to the established lines of the subject real estate. A more accurate explanation of these relationships and how they were determined is described within this project. Unless otherwise illustrated hereon, there is no evidence of occupation along the exterior perimeter of the subject real estate.

This plot of survey accurately shows the position of easements, highways, rights of way, restrictions, covenants or other encumbrances of which the Surveyor was informed of. Land Surveyor's within the State of Indiana are not qualified to perform the extensive searches needed to acquire all of those documents or agreements, and they rely upon a Title Company, the client, the client's attorney, or the land owner to provide such information. Observable evidence of these burdens are shown hereon as utility lines or associated improvements, drains, swales, roadways, driveways, paths, etcetera.

Land Survey Markers, or monuments were either set or found at all corners of the subject real estate, as shown and noted hereon. In situations where the corner is inaccessible or it would not be reasonable to set a monument at a corner, due to terrain or other hindrances, offset monuments may have been set instead, and those have been annotated hereon as well.

There may be differences of deed (D) dimensions versus measured (M) dimensions along the established lines of the subject real estate and likewise, there may be found survey markers near, but not precisely at, some established corners. In cases where the extent of these differences are less than the stated RPA, and less than the uncertainty recognized with regard to any reference monuments used for this project, those differences may be considered insignificant and have been shown only for the purposes of mathematical closure. Conversely, any differences that may exceed the stated RPA and other uncertainties are considered significant and have been discussed further below.

The Theory of Location applied for this project is as follows:

The basis of bearings for this project is the south line of said Southeast Quarter Section, bearing South 89 degrees 36 minutes 49 seconds West (per deed).

It is this Land Surveyor's professional opinion that the cause and the amount of uncertainty in these lines and corners is due to the following:

- (A) Availability and condition of reference monuments
- The south line of said Southeast Quarter Section was established per monuments found within Shadow Lakes Sub., Section 1 (Inst.#8920670) and Shadow Lakes Sub., Section 2 (Inst.#9113119) and were used to control this survey.
- Additional monuments were found at or near the established corners for the subject real estate and its adjoining and any variances have been annotated hereon.
- The amount of uncertainty created by the controlling monuments and any other monuments shown hereon is equal to 0.3'.

- (B) Occupation or possession lines
- During a physical inspection of the premises, no discrepancies in these lines were found.

- (C) Clarity or ambiguity of the record description used and of adjoining's descriptions and the relationship of the lines of the subject tract with adjoining's lines
- No gaps or overlaps in title or deed lines were discovered during this survey.

- (D) The relative positional accuracy of the measurements
- This survey meets or exceeds the requirements set forth by the State of Indiana.

Land Surveyor's Notes

Any underground utilities depicted on the attached plot of survey have been located per visual observations or utility markings on the ground. No warranty, either expressed or implied, is made as to the accuracy and/or completeness of information presented on underground utilities, or as to its fitness for any particular purpose or use. In no event will SEA Group, its employees, agents, and/or assigns, be held liable for any damages arising out of the furnishing and/or use of such information. The path of the utility lines shown on said plot of survey should be considered approximate until they are either relocated, by calling the Indiana Underground Plant Protection Agency at 1-800-382-5544 or until they are excavated to verify the location and path of the utility lines.

No warranty, either expressed or implied, is made as to the accuracy and/or completeness of information provided by governmental authorities and/or third parties, or as to its fitness for any particular purpose or use, including but not limited to information presented on zoning, setback requirements, flood hazard zones and wetlands area(s). In no event will SEA Group, its employees, agents, and/or assigns, be liable for any damages arising out of the furnishing and/or use of such information.

Any depiction of possible intrusion, trespass, invasion, and/or possible encroachment into the possessions or rights of another is not a matter of survey. An attorney and/or title company should be consulted in all matters with respect to any rights of possession(s) and matters of title.

Along any line where a deed gap or overlap or inconsistency in line of occupation occurs, unwritten rights may be available to the subject and/or the adjoining real estates.

Flood Information Note

Flood status information was obtained using Flood Insurance Rate Maps (FIRM) provided by the United States Department of Homeland Security, Federal Emergency Management Agency (FEMA), on their website, located at <http://msc.fema.gov/>.

The Subject Real Estate described hereon was mathematically calculated and scaled on the FIRM Maps of Hamilton County, Indiana, Map Number 18057C0120G, dated 11/19/14, and was found to be located in Flood Zone X (unshaded) and NOT within a Special Flood Hazard Zone.

The accuracy of any flood hazard data shown on this Land Survey is subject to map scale uncertainty and to any other uncertainty in location or elevation on the referenced Flood Insurance Rate Map. This certification is restricted to a review of the FIRM noted above and shall not be construed as a confirmation or denial of flooding potential.

Title Insurance Company Commitment Note

Evidence of source of title for the subject tract was provided by _____ Title Insurance Company, having a Title Commitment Number of _____ and is dated effective _____. Some certain survey-related "exceptions" exist that were disclosed in Schedule B of said title commitment, and have been depicted on the survey, each being identified by their recording data. Should any additional items need to be depicted on the survey, please notify us and provide the appropriate documents.

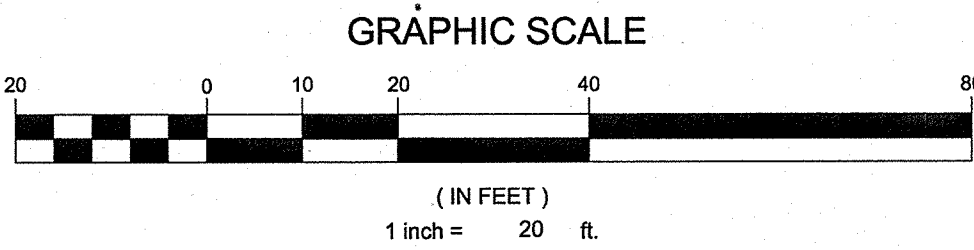
Survey related "Exceptions" with regard to the Subject Real Estate:

1. a

Current ownership for the Subject and Adjoining real estates are shown per County Assessor records, and the documents listed hereon can be obtained from the County Recorder's Office.

SYMBOL LEGEND

| | | | |
|--|---------------------------|--|------------------------|
| | SEA GROUP MONUMENT SET | | SIGN |
| | CUT "X" SET or FOUND | | LARGE SIGN |
| | BRASS PLUG / COPPER WELD | | UTILITY POLE |
| | SURVEY MARKER FOUND | | LIGHT POLE |
| | PK or MAG NAIL FOUND | | GROUND LIGHT |
| | SECTION CORNER (AS NOTED) | | ELECTRIC METER |
| | BENCHMARK (AS NOTED) | | ELECTRIC UTILITY |
| | RIGHT OF WAY MARKER | | BOLLARD |
| | TRAFFIC SIGNAL POLE | | CLEAN OUT |
| | AIR CONDITIONER | | MAIL BOX |
| | FIRE MAIN | | GAS LINE MARKER |
| | FIRE HYDRANT | | GAS VALVE |
| | WATER METER | | GAS METER |
| | WATER VALVE | | TELEPHONE MANHOLE |
| | WATER WELL | | TELEPHONE UTILITY |
| | BEE-HIVE INLET | | TELEPHONE LINE MARKER |
| | DRAINAGE INLET | | SANITARY SEWER MANHOLE |
| | MANHOLE | | SANITARY SEWER MARKER |
| | AIR / VACUUM EQUIPMENT | | STORM SEWER MANHOLE |
| | | | COMMUNICATIONS UTILITY |



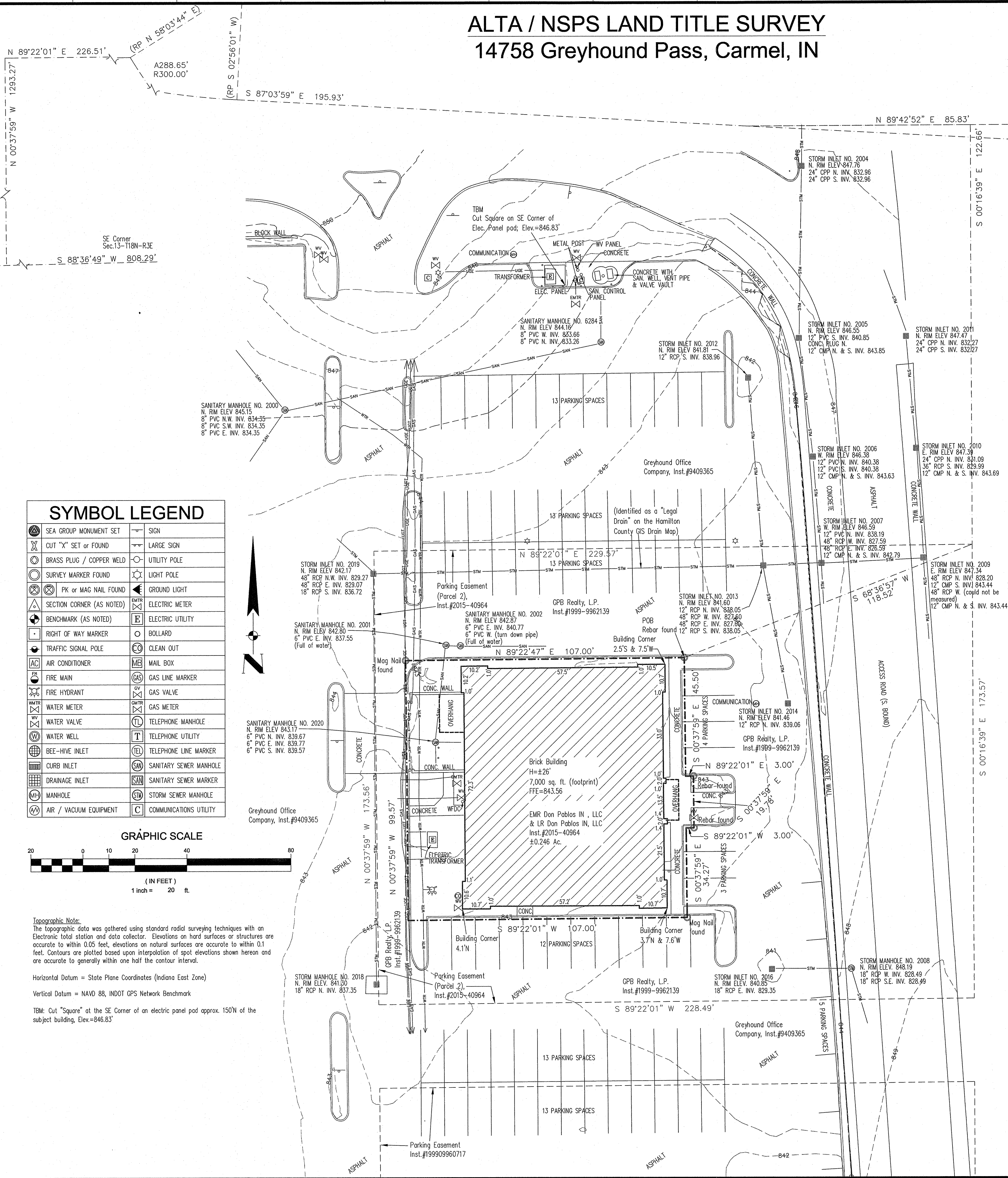
Topographic Notes:
The topographic data was gathered using standard radial surveying techniques with an Electronic total station and data collector. Elevations on hard surfaces or structures are accurate to within 0.05 feet, elevations on natural surfaces are accurate to within 0.1 feet. Contours are plotted based upon interpolation of spot elevations shown hereon and are accurate to generally within one half the contour interval.

Horizontal Datum = State Plane Coordinates (Indiana East Zone)

Vertical Datum = NAVD 88, INDOT GPS Network Benchmark

TBM: Cut "Square" at the SE Corner of an electric panel pod approx. 150'N of the subject building, Elev.=846.83'

ALTA / NSPS LAND TITLE SURVEY
14758 Greyhound Pass, Carmel, IN



SEA Group
Land Surveyors • Civil Design
Construction Layout
494 Grady Drive Carmel, Indiana 46032
Phone: 317.844.3333 Fax: 317.844.3383
www.seagroupplc.com info@seagroupplc.com

14758 Greyhound Pass
Carmel, IN 46032

PROJECT LOCATED IN:

SECTION 13- TOWNSHIP 18 NORTH - RANGE 03 EAST

HAMILTON COUNTY, IN

**ALTA/NSPS
LAND TITLE SURVEY**

PREPARED FOR:

GreenbergFarrow
21 South Evergreen Ave
Suite 200
Arlington Heights, IL 60005

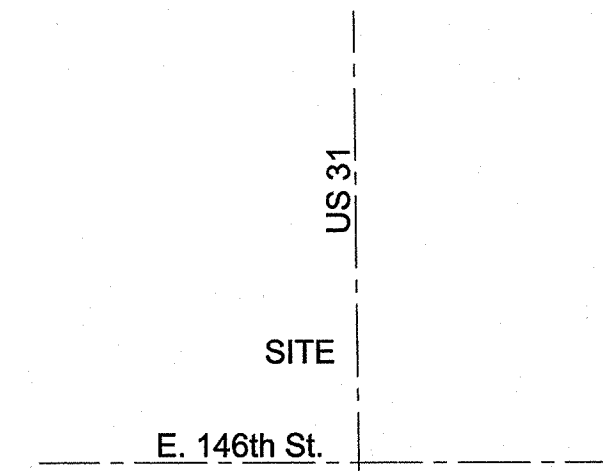
REV. # DATE REV. DESC.

| REV. # | DATE | REV. DESC. |
|--------|------|------------|
| | | |
| | | |
| | | |
| | | |
| | | |

DRAWING LEGEND

| | | | |
|--|---------------------------|--|--------------------------|
| | EXISTING METAL-TYPE FENCE | | EXISTING WOOD-TYPE FENCE |
| | GAS | | GAS |
| | CITY/UTILITY | | CITY/UTILITY |
| | WATER | | WATER |
| | SANITARY SEWER | | SANITARY SEWER |
| | STORM SEWER | | STORM SEWER |
| | FIRE MAIN | | FIRE MAIN |
| | FIRE HYDRANT | | FIRE HYDRANT |
| | WATER METER | | WATER METER |
| | WATER VALVE | | WATER VALVE |
| | WATER WELL | | WATER WELL |
| | BEE-HIVE INLET | | BEE-HIVE INLET |
| | DRAINAGE INLET | | DRAINAGE INLET |
| | MANHOLE | | MANHOLE |
| | AIR / VACUUM EQUIPMENT | | AIR / VACUUM EQUIPMENT |
| | SIGN | | SIGN |
| | LARGE SIGN | | LARGE SIGN |
| | UTILITY POLE | | UTILITY POLE |
| | LIGHT POLE | | LIGHT POLE |
| | GROUND LIGHT | | GROUND LIGHT |
| | ELECTRIC METER | | ELECTRIC METER |
| | ELECTRIC UTILITY | | ELECTRIC UTILITY |
| | BOLLARD | | BOLLARD |
| | CLEAN OUT | | CLEAN OUT |
| | MAIL BOX | | MAIL BOX |
| | GAS LINE MARKER | | GAS LINE MARKER |
| | GAS VALVE | | GAS VALVE |
| | GAS METER | | GAS METER |
| | TELEPHONE MANHOLE | | TELEPHONE MANHOLE |
| | TELEPHONE UTILITY | | TELEPHONE UTILITY |
| | TELEPHONE LINE MARKER | | TELEPHONE LINE MARKER |
| | SANITARY SEWER MANHOLE | | SANITARY SEWER MANHOLE |
| | SANITARY SEWER MARKER | | SANITARY SEWER MARKER |
| | STORM SEWER MANHOLE | | STORM SEWER MANHOLE |
| | COMMUNICATIONS UTILITY | | COMMUNICATIONS UTILITY |

VICINITY MAP - NOT TO SCALE

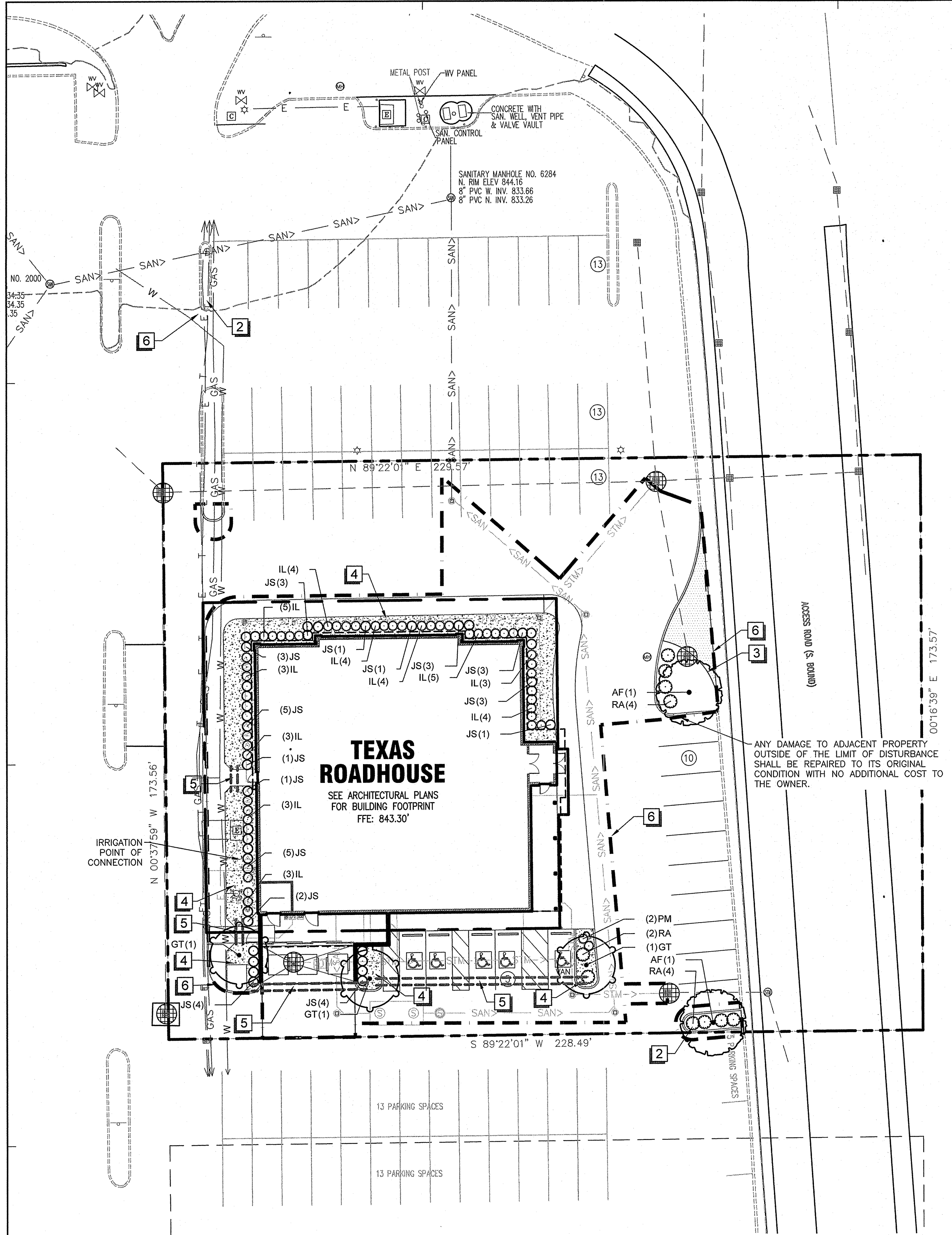


Approved By: JMF
Drawn By: BS/JMF
Date of Last Field Work: 8/18/17
Date Plotted: 9/05/17

Reference #: ..

Project Number:

C17-3201
Sheet Number :



LANDSCAPE PLAN

LANDSCAPE CALCULATIONS:

| REQUIRED: | | PROVIDED: | REQUIRED: | | PROVIDED: |
|---|--|---|---|---|--------------------|
| FOUNDATION LANDSCAPING | | | | | |
| 1 SHRUB/12 LF OF BUILDING FACADE | 28 SHRUBS (7 SHRUBS FOR EACH FACADE)
(328 LF/12 LF=27.33) | 79 SHRUBS | LOT LANDSCAPING
10 SHADE TREES/ACRE | 9 SHADE TREES
(10 X 0.91 ACRES=9.1) | 5 SHADE TREES |
| INTERIOR PARKING LANDSCAPING | | | | | |
| 7.5% LANDSCAPING FOR 50 OR MORE SPACES | 1,256 SF, 7.5%
(16,742 SF*.075 = 1,256 SF) | 1,013 SF, 6%
(1,013 SF/16,742 SF = .060) | 10 ORNAMENTAL TREES/ACRE | 9 ORNAMENTAL TREES
(10 X 0.91 ACRES=9.1) | 0 ORNAMENTAL TREES |
| PARKING ISLANDS | | | | | |
| 1 TREE AND 4 SHRUBS PER ISLAND | YES | | 25 SHRUBS/ACRE | 23 SHRUBS
(25 X 0.91 ACRES=22.75) | 93 SHRUBS |

REFERENCE NOTES SCHEDULE

| SYMBOL | DESCRIPTION |
|--------|--|
| 1 | ALL LAWN AREAS TO BE ESTABLISHED BY SEEDING WITH KENTUCKY BLUEGRASS BLEND. |
| 2 | INSTALL 3" DEPTH OF SHREDDED HARDWOOD MULCH ON WEED BARRIER IN ALL ISLANDS AND LANDSCAPE BEDS (TYP.) |
| 3 | CULTIVATED BEDLINE 4" DEPTH. |
| 4 | INSTALL RIVER ROCK MULCH 5"-7" DIAMETER ON WEED BARRIER IN PLANT BED ADJACENT TO BUILDING FOUNDATION AND WHERE INDICATED ON PLAN. RIVER ROCK MULCH TO BE INSTALLED FLUSH WITH TOP OF SIDEWALK. |
| 5 | 4", SCHEDULE 40 PVC IRRIGATION SLEEVE |
| 6 | ANY DAMAGE TO ADJACENT PROPERTY OUTSIDE OF THE LIMIT OF DISTURBANCE SHALL BE REPAIRED TO ITS ORIGINAL CONDITION WITH NO ADDITIONAL COST TO THE OWNER. |

PLANT SCHEDULE

| TREES | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL |
|---------------|--------|---------------------------------|--------------------------|-------------|--------------|--------|
| AF | 2 | Acer x freemanii | Freeman Maple | B & B | 2.5"Cal | |
| GT | 3 | Gleditsia triacanthos 'Skyline' | Skyline Honey Locust | B & B | 2.5"Cal | |
| SHRUBS | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | HEIGHT |
| IL | 41 | Ilex glabra 'Shamrock' | Inkberry | Cont. | 36" Ht. Min. | |
| JS | 40 | Juniperus chinensis 'Spartan' | Spartan Juniper | B & B | 7' Ht. Min. | |
| PM | 2 | Picea pungens 'Montgomery' | Montgomery Blue Spruce | Cont. | 18" HT. MIN. | |
| RA | 10 | Rhus aromatica 'Gro-Low' | Gro-Low Fragrant Sumac | Cont. | 18" HT. MIN. | |
| GROUND COVERS | CODE | QTY | BOTANICAL NAME | COMMON NAME | CONT | |
| PP | 298 sf | Lawn Grasses | Kentucky Bluegrass Blend | seed | | |

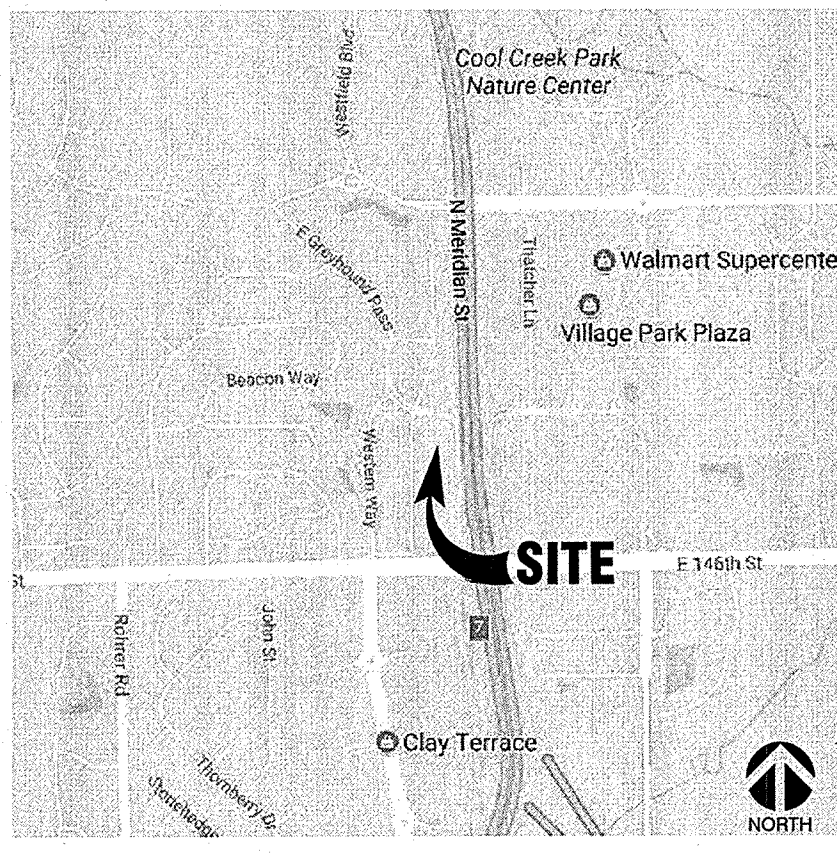
SHRUB HEIGHT MEASUREMENTS ARE TO BE AS MEASURED FROM TOP OF ROOTBALL (TYP.)

GENERAL NOTES:

- GRAPHIC SYMBOLS TAKE PRECEDENCE OVER WRITTEN QUANTITIES AND KEYS ON PLAN.
- CONTRACTOR TO REPAIR AND REPLACE ANY PLANT MATERIAL DAMAGED BY THIS CONSTRUCTION OUTSIDE PROJECT LIMITS. ANY EXISTING PLANT MATERIAL DAMAGED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED WITH LIKE MATERIAL OF SIMILAR SPECIES AND SIZE AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO OWNER OR TENANT.
- TWO WEEKS PRIOR TO PLANTING, THE CONTRACTOR SHALL SUBMIT TO THE OWNER / OWNER'S REPRESENTATIVE A PLANT PHOTO SUBMITTAL FOR APPROVAL. IF REQUESTED, BY THE OWNER, THE LANDSCAPE ARCHITECT WILL TAG THE MATERIAL.
- EACH PHOTO SHALL CLEARLY SHOW THE SIZE, FORM, AND BRANCHING STRUCTURE AND QUALITY OF THE PLANT.
- EACH PHOTO SHALL HAVE THE PLANT NAME, SIZE AND SPECIFICATIONS LABELED ON THE PHOTO.
- ANY PHOTO SHOWING A GROUP OF PLANTS CLOSE TOGETHER WILL NOT BE ACCEPTED.
- NO PARTIAL OR INCOMPLETE SUBMITTAL WILL BE ACCEPTED FOR REVIEW. ANY REJECTED SPECIES WILL BE SUBJECT TO RESUBMITTAL.
- SAMPLES OF RIVER ROCK COBBLESTONE ARE TO BE PROVIDED TO OWNER/TENANT FOR REVIEW AND APPROVAL TWO (2) WEEKS PRIOR TO CONSTRUCTION. NO COBBLESTONE IS TO BE INSTALLED WITHOUT PRIOR APPROVAL FROM TEXAS ROADHOUSE.
- REFER TO THE LATEST CIVIL PLANS FOR DISTURBED AREAS TO BE RESTORED. ADDITIONAL RESTORATION MAY BE NEEDED DUE TO FIELD CONDITIONS. SEE CIVIL SITE PLAN.
- CONTRACTOR TO PROVIDE SITE IRRIGATION FOR LANDSCAPE AREAS AROUND BUILDING PERIMETER ONLY. IRRIGATION FOR THIS AREA TO PROVIDE 100% COVERAGE OF ALL PLANTED AREAS. SHRUB BEDS TO BE WATERED WITH SUBSURFACE IRRIGATION. LAWN AREAS TO BE KEPT ON SEPARATE ZONES FROM SHRUB BEDS, DO NOT SPRAY ONTO BUILDING. IRRIGATION SYSTEM TO BE DESIGNED INSTALLED PER ALL LOCAL, STATE AND FEDERAL CODES.

MAINTENANCE OF LANDSCAPING:

THE OWNER, TENANT, OR AGENT, IF ANY, SHALL BE RESPONSIBLE FOR PROVIDING, PROTECTING AND MAINTAINING ALL LANDSCAPING IN HEALTHY GROWING CONDITIONS, REPLACING IT WHEN NECESSARY TO ENSURE CONTINUOUS CONFORMANCE WITH THESE GUIDELINES AND KEEPING IT FREE FROM REFUSE AND DEBRIS. MAINTENANCE SHALL INCLUDE THE REPLACEMENT OF ALL DEAD PLANT MATERIAL WITHIN THE GUARANTEED CONTRACT PERIOD.



LOCATION MAP

GreenbergFarrow

1430 W. Peachtree St. NW
Suite 200
Atlanta, GA 30309
t: 404 601 4000 f: 404 601 3970

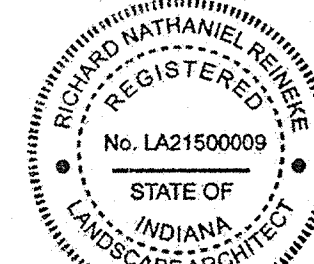
PROJECT TEAM

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ISSUE/REVISION RECORD

| DATE | DESCRIPTION |
|----------|-------------------------|
| 12/01/17 | DDP SUBMITTAL |
| 01/19/18 | REVISED CITY SUBMISSION |

PROFESSIONAL SEAL



01/19/18

PROFESSIONAL IN CHARGE
RICHARD REINWEKE
PROFESSIONAL LANDSCAPE ARCHITECT
LICENSE NO. LA21500009

PROJECT MANAGER

JEFF RATH

QUALITY CONTROL

SARAH DREIER

DRAWN BY

JEAN SHI

PROJECT NAME

**TEXAS
ROADHOUSE**

**CARMEL
INDIANA**

14758 N. MERIDIAN ST.



HOLEY MOLEY SAYS
"DON'T
DIG
BLIND"



"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544

CALL TOLL FREE
PER INDIANA STATE LAW IS-69-1991,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

PROJECT NUMBER

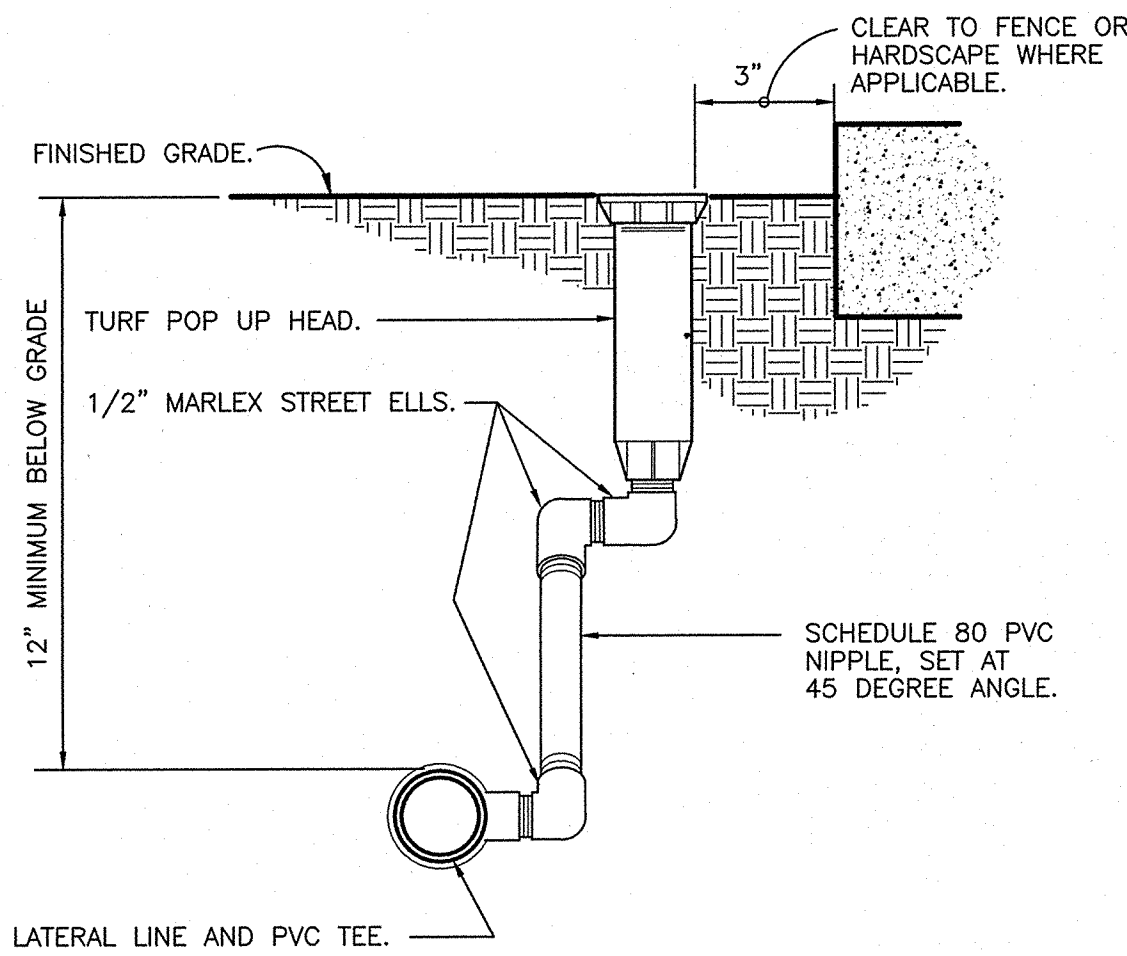
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SHEET TITLE

**LANDSCAPE
PLAN**

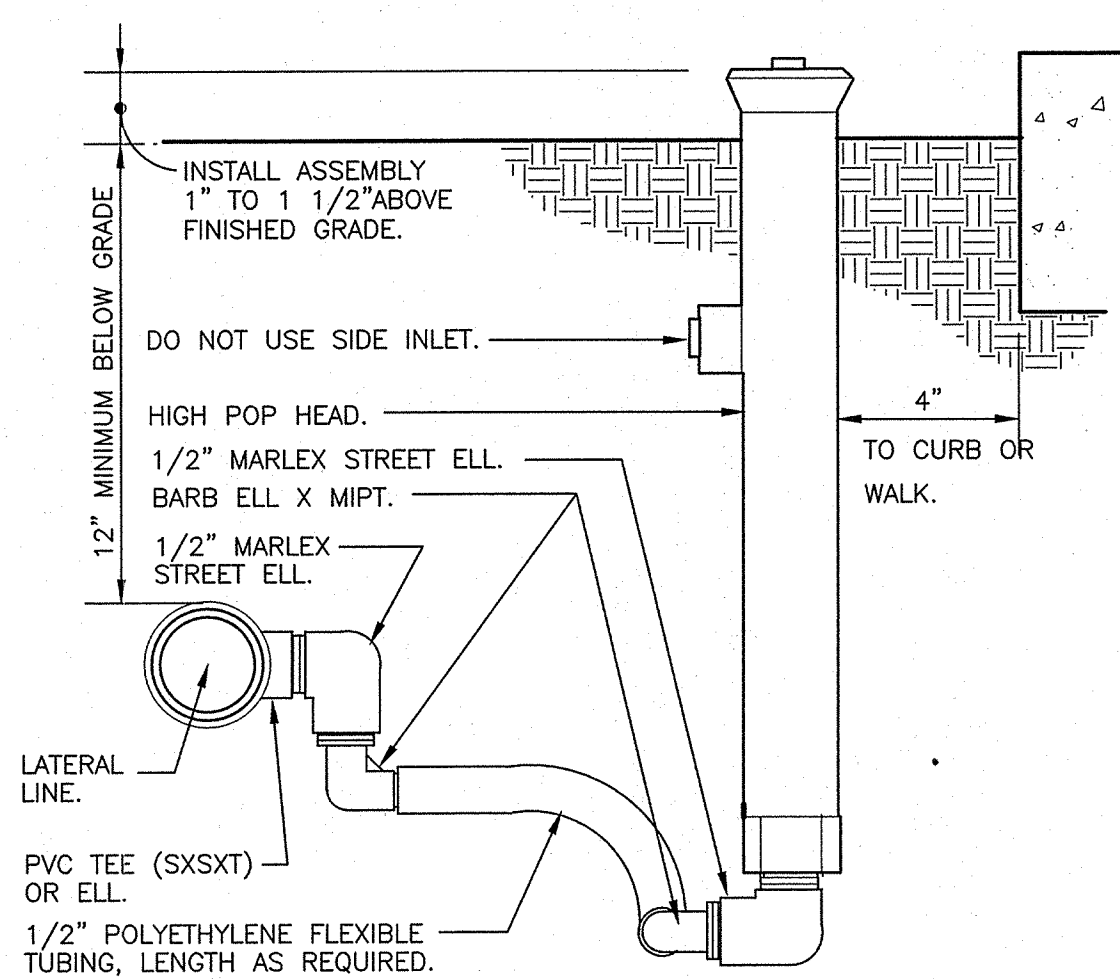
SHEET NUMBER

L1.0



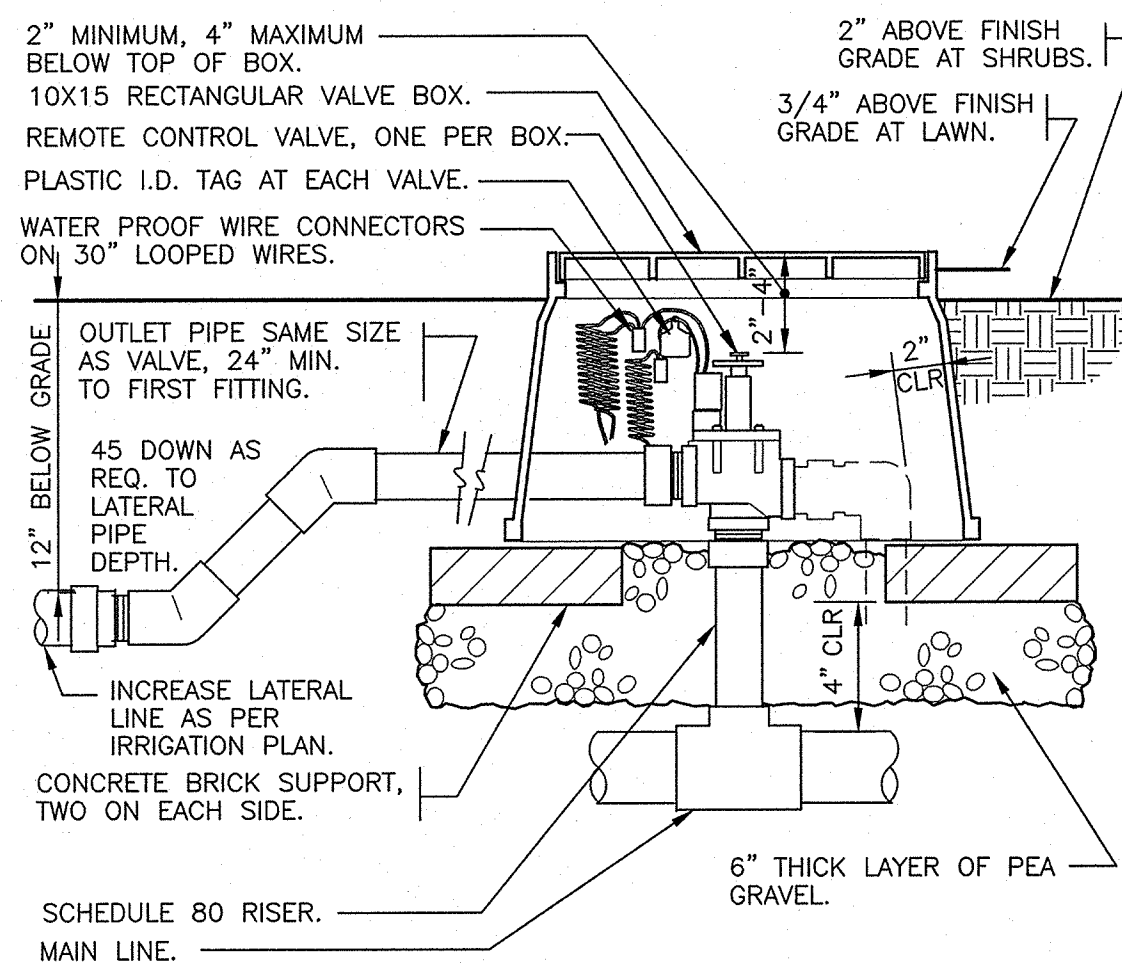
1 TURF SPRAY MARLEX ASSEMBLY
3\"/>

328403.13-01



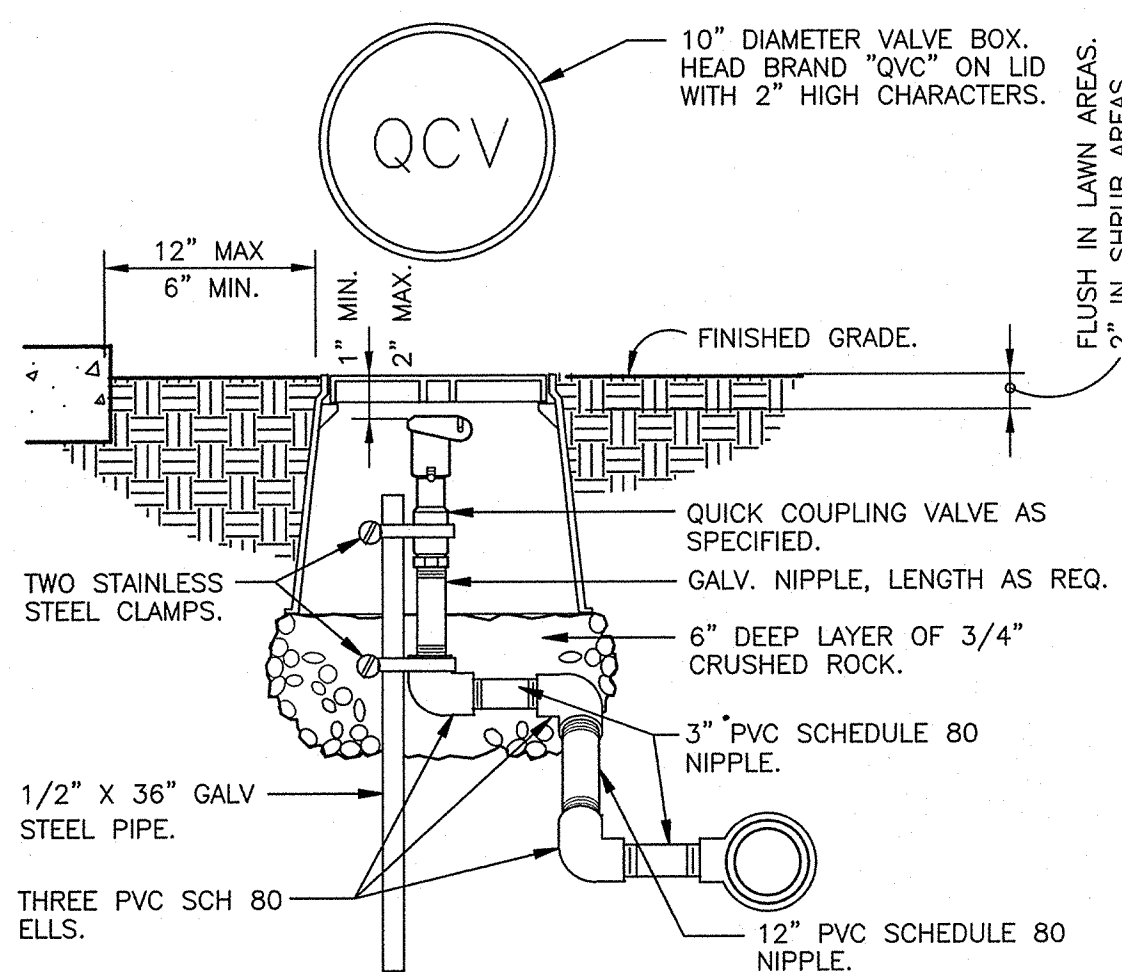
2 SHRUB SPRAY HIGHPOP W/FLEX ASSEMBLY
3\"/>

328403.29-01



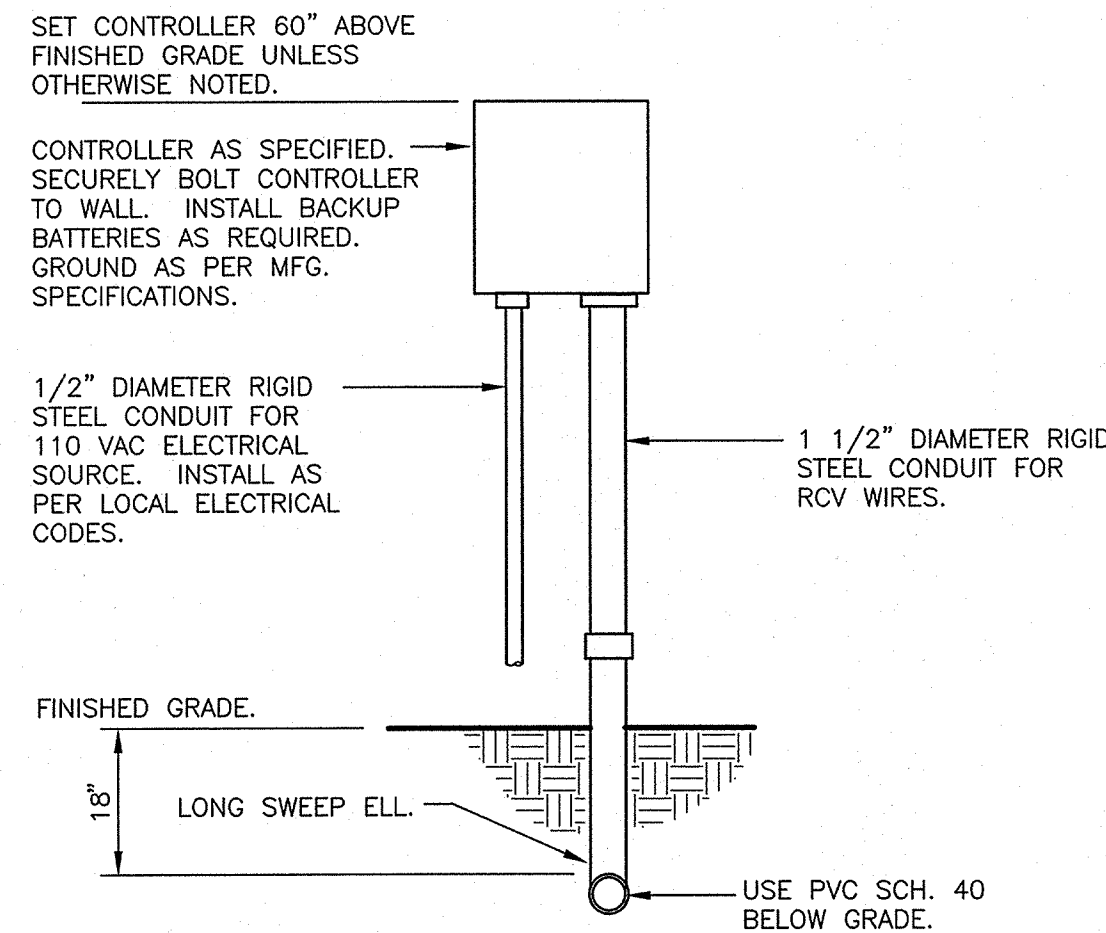
3 ELECTRIC REMOTE CONTROL VALVE
1 1/2\"/>

328406.13-01



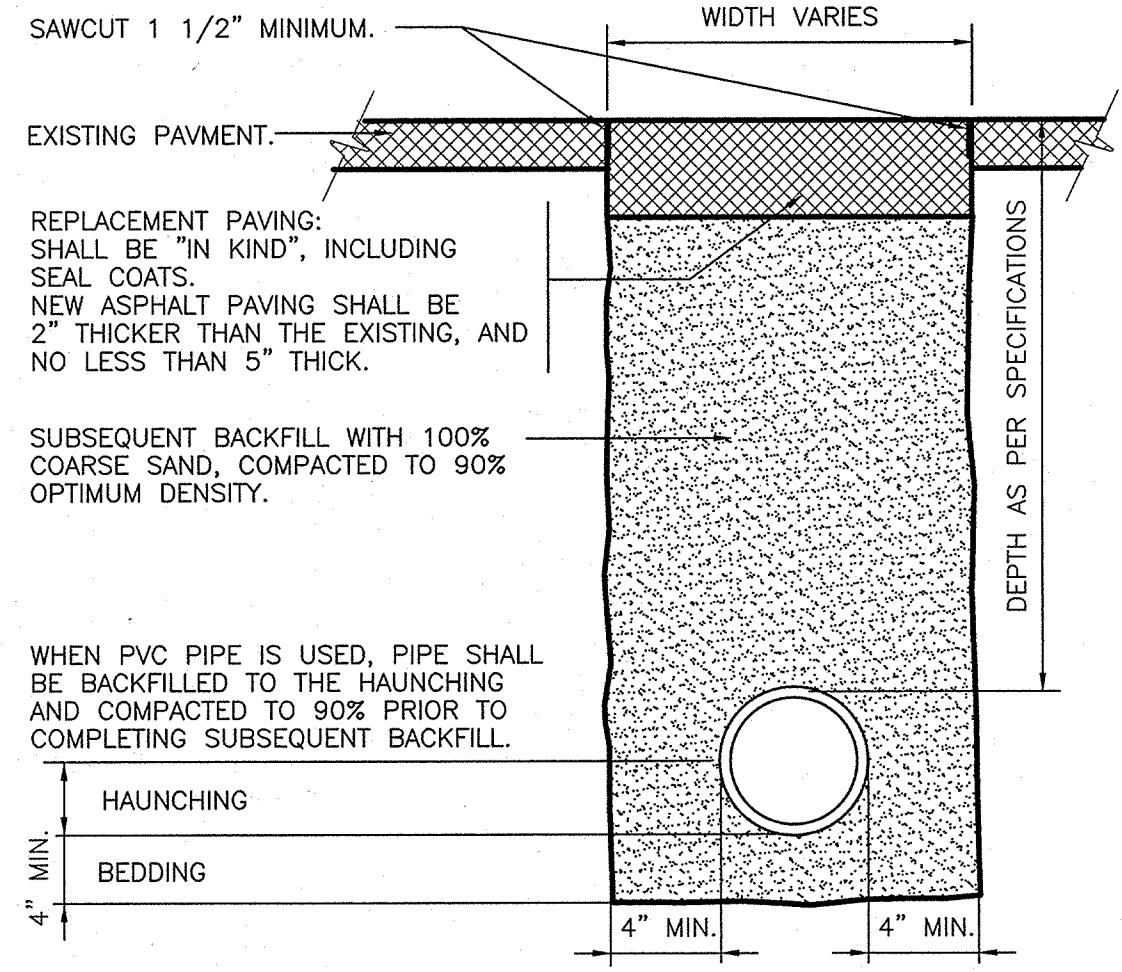
4 QUICK COUPLING VALVE IN BOX
1 1/2\"/>

328406.43-02



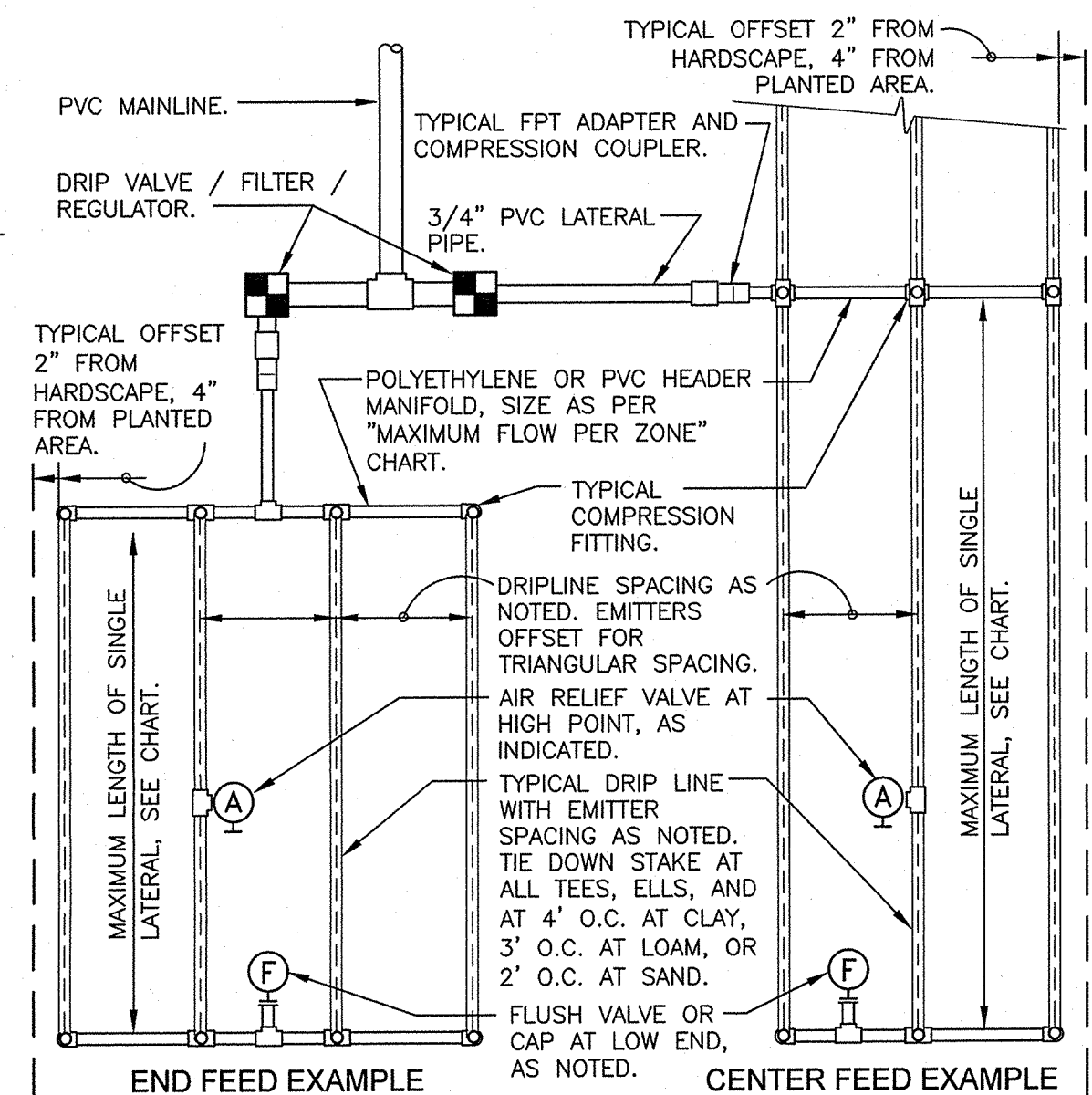
5 WALL MOUNT CONTROLLER
1\"/>

328409.13-01



6 TRENCH DETAIL AT ASPHALT PAVING
1 1/2\"/>

328409.76-02



7 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS
N.T.S.

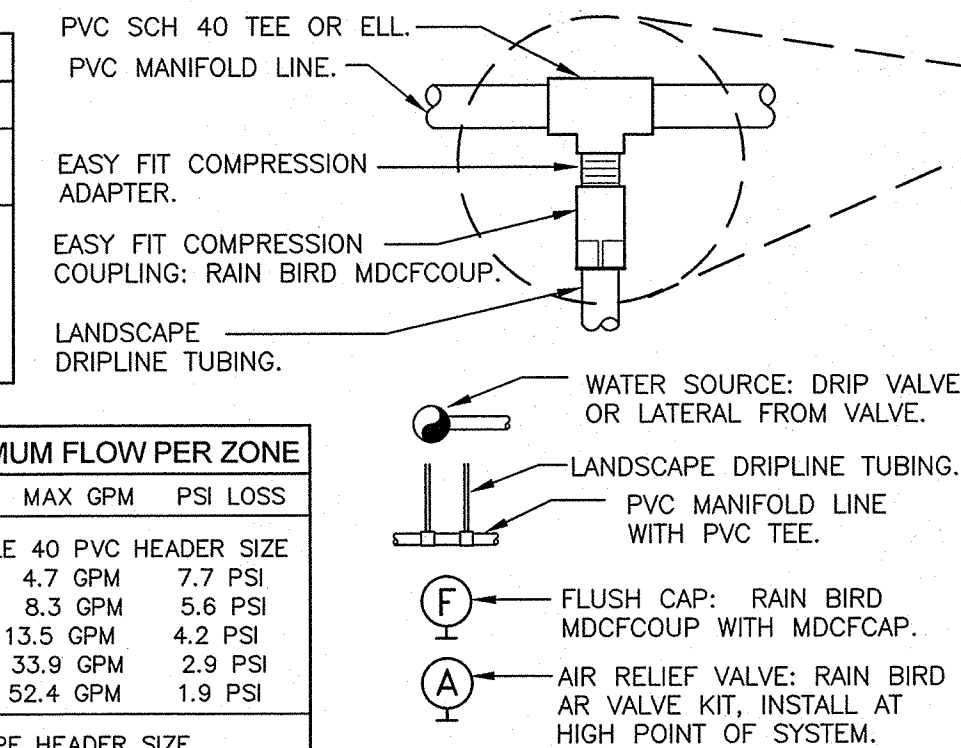
N.T.S.

| MAXIMUM LATERAL LENGTH (FEET) | | | | |
|-------------------------------|-----------------------|-------------|-------------|--|
| | EMITTER FLOW RATE GPH | | | |
| PSI | 12" SPACING | 18" SPACING | 24" SPACING | |
| | 0.6 0.9 | 0.6 0.9 | 0.6 0.9 | |
| 10 | 125 96 | 175 135 | 218 171 | |
| 20 | 249 191 | 350 171 | 442 340 | |
| 30 | 307 236 | 434 333 | 555 422 | |
| 40 | 350 268 | 495 380 | 627 171 | |
| 50 | 125 96 | 175 135 | 218 171 | |
| 60 | 125 96 | 175 135 | 218 171 | |

| GRID PRECIPITATION RATES (IN/HR) | | | | |
|----------------------------------|-----------------|-------------------|------|--|
| EMITTER SPACING | LATERAL SPACING | EMITTER FLOW RATE | | |
| | | 0.6 | 0.9 | |
| 12 | 12 | 0.96 | 1.44 | |
| 18 | 18 | 0.69 | 1.03 | |
| 24 | 24 | 0.28 | 0.41 | |

| LATERAL FLOW PER 100 FT (GPM) | | | |
|-------------------------------|-------------|-------------|-------------|
| EMITTER FLOW | 12" SPACING | 18" SPACING | 24" SPACING |
| 0.6 GPH | 1.0 GPM | 0.67 GPM | 0.50 GPM |
| 0.9 GPH | 1.5 GPM | 1.0 GPM | 0.75 GPM |

- SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
 2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
 3. NORMAL SPACING WITHIN THE TOP 2/3 OF SLOPE.
 4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM 1/3 OF THE SLOPE.
 5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM 1/3 ON A SEPARATE VALVE.



NOTES

IRRIGATION

CONTRACTOR TO PROVIDE SITE IRRIGATION FOR LANDSCAPE AREAS AROUND BUILDING PERIMETER ONLY. IRRIGATION FOR THIS AREA TO PROVIDE 100% COVERAGE OF ALL PLANTED AREAS. SHRUB BEDS TO BE WATERED WITH SUBSURFACE IRRIGATION. LAWN AREAS TO BE KEPT ON SEPARATE ZONES FROM SHRUB BEDS. DO NOT SPRAY ONTO BUILDING. IRRIGATION SYSTEM TO BE DESIGNED/INSTALLED PER ALL LOCAL, STATE AND FEDERAL CODES.

CONTROLLER - HUNTER I-CORE IN STRONG BOX WITH HUNTER SOLAR SYNC.
RAIN/FREEZE SWITCH - RAIN BIRD WR2
BACKFLOW PREVENTER - FEBCO
VALVES - RAIN BIRD PGA SERIES
MOISTURE SENSOR - RAIN BIRD SMRT-Y (TO BE USED ON ALL PROJECTS AROUND THE BUILDING FOR FOUNDATION PLANTINGS)
TURF SPRAY HEADS - RAIN BIRD 1800 SERIES
PLANTING BED SPRAY HEADS - RAIN BIRD 1800 SERIES
LARGE ROTOR HEADS - RAIN BIRD 5500, 6500 OR 8000 SERIES
SMALL ROTOR HEADS - RAIN BIRD 5000 SERIES
SUBSURFACE DRIP - XFS-P-09-12-100
PRESSURE REGULATOR KIT - RAIN BIRD XCZ
INSTALL U-SERIES NOZZLES WHERE APPLICABLE.

CONTRACTOR QUALIFICATIONS: INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE UNDER THE SUPERVISION OF A SUPERINTENDENT CURRENTLY LICENSED AS A LANDSCAPE IRRIGATOR IN THE STATE OR LOCAL JURISDICTION.

GUARANTEE: GUARANTEE THE UNDERGROUND SPRINKLER SYSTEM AGAINST DEFECTS IN THE MATERIALS AND WORKMANSHIP FOR ONE (1) YEAR AFTER FINAL ACCEPTANCE.

EXISTING UTILITIES: CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES DAMAGED BY CONTRACT ARE TO BE REPAIRED AT HIS EXPENSE WITH NO COST TO OWNER.

WORKMANSHIP: PROVIDE FULL AND COMPLETE COVERAGE OF ALL IRRIGATED AREAS. COMPLY WITH REQUIREMENTS OF THE UNIFORM PLUMBING CODE AND ALL OTHER APPLICABLE CODES.

TRENCHING: PROTECT ANY EXISTING PLANT MATERIAL. ROUTE EXCAVATION TRENCHES TO AVOID DAMAGE TO EXISTING TREES. COORDINATE CONFIGURATION OF PLANTING BEDS WITH LANDSCAPE CONTRACTOR. TO ENSURE PROPER LOCATION OF TURF AND SHRUB IRRIGATION HEADS. STAKE ALL SPRINKLER HEAD LOCATIONS AND TRENCH TO A MINIMUM WIDTH OF 4\"/>

PIPING: ALL PIPING IS TO BE SIZED FOR A MAXIMUM WATER VELOCITY OF 5 FEET PER SECOND. LAY PIPE ON A SOLID SUBBASE, UNIFORMLY SLOPED WITHOUT HUMPS AND DEPRESSIONS. KEEP PIPE INTERIOR CLEAN AT ALL TIMES.

BACKFLOW PREVENTER: INSTALL BACKFLOW PREVENTER AS PER CITY CODES AND STANDARDS. INSTALL 12\"/>

VALVES: CLEAN AND TEST PRIOR TO INSTALLATION. INSTALL PLUMB AND STRAIGHT. SET PLASTIC VALVE BOX WITH 2\"/>

BACKFILL: USE BACKFILL FREE FROM ROCKS AND OTHER UNSUITABLE MATERIALS WHICH COULD DAMAGE PIPE OR CREATE SETTLING PROBLEMS. APPLY BACKFILL MATERIAL IN 6\"/>

SPRINKLER HEADS: FLUSH LATERAL LINES WITH FULL HEAD OF WATER AND INSTALL HEADS. LOCATE SPRINKLER HEADS TO MAINTAIN A DISTANCE OF 6\"/>

WIRING: LAY WIRING BESIDE PIPE IN TRENCHES. PROVIDE A MINIMUM COVERING OF 12\"/>

AUTOMATIC CONTROLLER: PROVIDE 120 VOLT ELECTRICAL CURRENT TO THE CONTROLLER IN CONDUIT IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES.

CLEAN-UP: KEEP THE PREMISES AND PUBLIC STREETS FREE FROM ACCUMULATION OF WASTE MATERIAL. AT THE COMPLETION OF THE WORK REMOVE ALL WASTE, EXCESS MATERIAL, RUBBISH AND EQUIPMENT AND LEAVE THE SITE CLEAN.

FINAL ACCEPTANCE: PERFORM OPERATIONAL TEST WITH THE OWNER PRESENT AFTER SYSTEM IS COMPLETE AND IRRIGATION HEADS ADJUSTED TO FINAL POSITION. DEMONSTRATE TO OWNER THAT THE ENTIRE SYSTEM MEETS COVERAGE REQUIREMENTS AND FUNCTIONS PROPERLY. PROVIDE THE OWNER WITH COMPLETE WRITTEN INSTRUCTIONS FOR PROPER OPERATION AND MAINTENANCE OF THE SPRINKLER SYSTEM.

GreenbergFarrow

1430 W. Peachtree St. NW
Suite 200
Atlanta, GA 30309
t: 404 601 4000 f: 404 601 3970

PROJECT TEAM

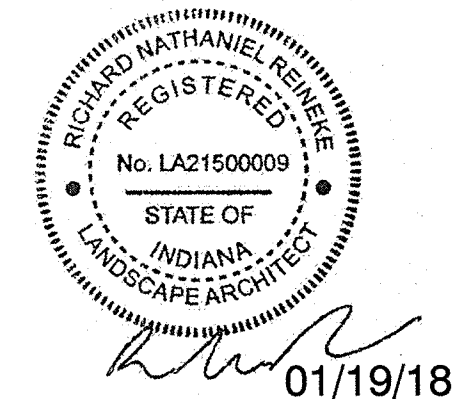
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ISSUE/REVISION RECORD

| DATE | DESCRIPTION |
|----------|-------------------------|
| 12/01/17 | DDP SUBMITTAL |
| 01/19/18 | REVISED CITY SUBMISSION |

PROFESSIONAL SEAL



PROFESSIONAL IN CHARGE

RICHARD REIWICKE
PROFESSIONAL LANDSCAPE ARCHITECT
LICENSE NO. LA21500009

PROJECT MANAGER

JEFF RATH

QUALITY CONTROL

SARAH DREIER

DRAWN BY

JEAN SHI

PROJECT NAME

TEXAS
ROADHOUSE

CARMEL
INDIANA

14758 N. MERIDIAN ST.



PROJECT NUMBER

20170746.0

SHEET TITLE

IRRIGATION
NOTES AND
DETAILS

SHEET NUMBER

L2.1

328413.56-01

8 MANUAL CONTROL VALVE IN BOX
1 1/2\"/>

328406.19-02



FRONT ELEVATION (NORTH)



LEFT ELEVATION (EAST)



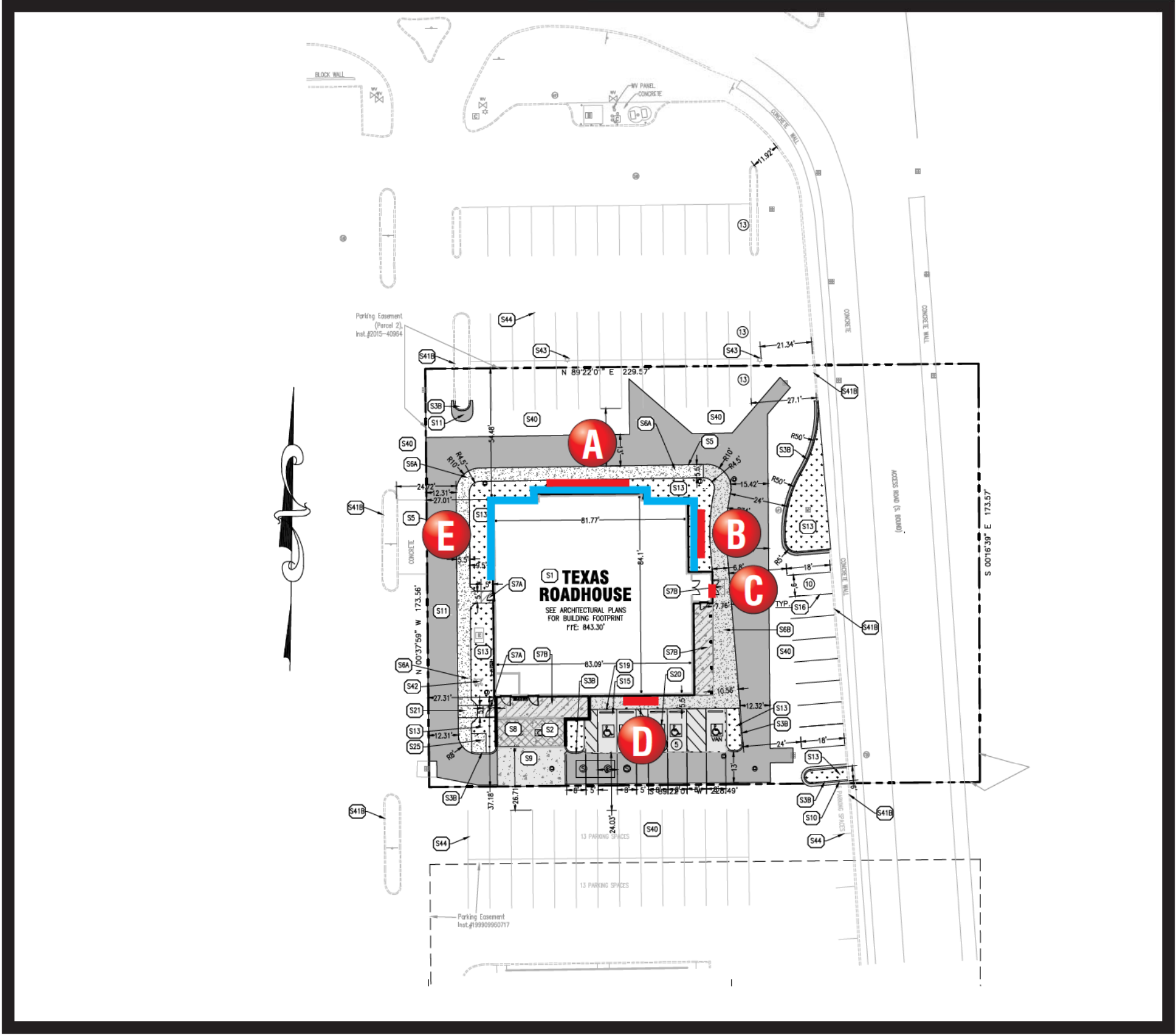
REAR ELEVATION (SOUTH)



RIGHT ELEVATION (WEST)

| EXTERIOR FINISH SCHEDULE | |
|--|---|
| WOOD SIDING, TRIM, & WOOD SHUTTERS | PRE-STAINED CEDAR, HENRY POOR LUMBER
CEDARTONE TWP #1501 STAIN FORMULA |
| FRONT ENTRANCE DOORS | METAL DOORS (FAUX WOOD)
STEELCRAFT "GRAIN-TECH" (MAPLE FINISH) |
| TRIM, METAL FLASHING & GUTTERS | PAINT #1:
SHERWIN WILLIAMS PAINTS, GREEN |
| DOWNSPOUTS | PAINT #2:
SHERWIN WILLIAMS PAINTS, #2195 "ROADSIDE" |
| THIN STONE VENEER | HERITAGE STONE
"OTTAWA DRYSTACK" |
| METAL DOORS & FRAMES | PAINT #3:
SHERWIN WILLIAMS PAINTS, GLOSS BLACK |
| BRICK VENEER | CLAYMEX
OLD DENVER |
| BRICK VENEER (ALTERNATE) | GENERAL SHALE
PHOENIX C652 |
| METAL ROOF | METAL SALES
5V-CRIMP, GALVALUME |
| DUMPSTER GATES & BOLLARDS | PAINT #3:
SHERWIN WILLIAMS PAINTS, GLOSS BLACK |
| DISCLAIMER NOTE:
THE COLORS DEPICTED ON THESE ELEVATIONS ARE FOR GRAPHIC REPRESENTATION PURPOSES ONLY.
PLEASE REFER TO MATERIAL BOARD FOR ACTUAL SAMPLE OF COLORS AND TEXTURES | |

| EXTERIOR MATERIAL CALCULATIONS | | | |
|--------------------------------|--|----------------------|-----------------------------|
| FACADE | TOTAL SURFACE AREA
(EXCLUDING WINDOWS, DOORS,
ROOFING, AND FASCIA) | MASONRY SURFACE AREA | OTHER MATERIAL SURFACE AREA |
| FRONT ELEVATION (NORTH) | 1,106.7 FT² | 743.6 FT² (67.2%) | 363.1 FT² (32.8%) |
| LEFT ELEVATION (EAST) | 1,089.4 FT² | 819.9 FT² (75.3%) | 259.5 FT² (24.7%) |
| REAR ELEVATION (SOUTH) | 1,543.2 FT² | 1,449.5 FT² (93.9%) | 93.7 FT² (6.1%) |
| RIGHT ELEVATION (WEST) | 1,508.5 FT² | 1,246.1 FT² (82.6%) | 262.4 FT² (17.4%) |



- A** 32" Channel letters w/ 6' Logo
98.6 Square Feet
- B** 30" Channel letters w/ 5' Logo
81 Square Feet
- C** 3'3" x 5'7" Single Faced Wall Sign.
18.1 Square Feet
- D** 5'10" x 10'-0" Single Faced Wall Sign.
58.3 Square Feet
- E** White Border LED

160 W. Carmel Drive, Suite 236 Carmel, IN 46032
(317) 581-7790 Fax (317) 581-7783

Manufacturing Facilities:
Oceanside - Euless - Jacksonville - Columbus
Office Locations:
Oceanside - Las Vegas - Laughlin - Idaho Falls
Euless - Jacksonville - Houston - San Antonio
Corpus Christi - Grafton - Milwaukee
Willowbrook - Louisville - Indianapolis - Columbus
Cincinnati - Westerville - Knoxville - Tunica
Atlanta - Tampa - Daytona Beach - Winter Park

Building Quality Signage Since 1901

Revisions:

R1:1/17/18-SM: UPDATED SITE PLAN/

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match

Client Approval/Date:

Landlord Approval/Date:

Account Rep: Randy Cearlock

Project Manager: S. Maeser

Drawn By: S. Maeser

Underwriters Laboratories Inc.

ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

Project / Location:

NWQ W 146 ST. AND US HWY 131
CARMEL, IN

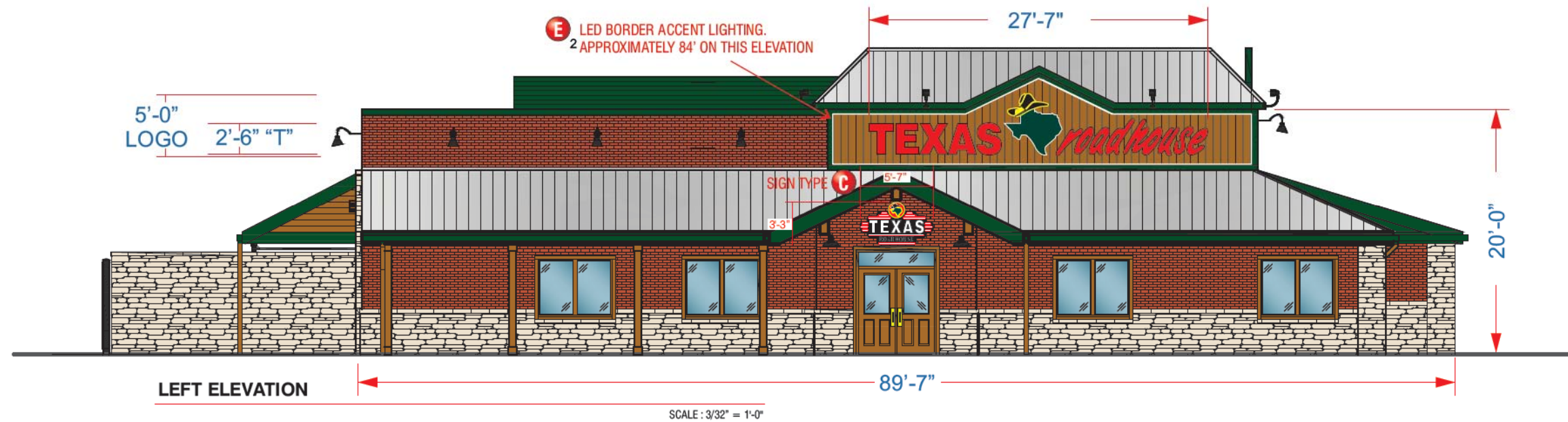
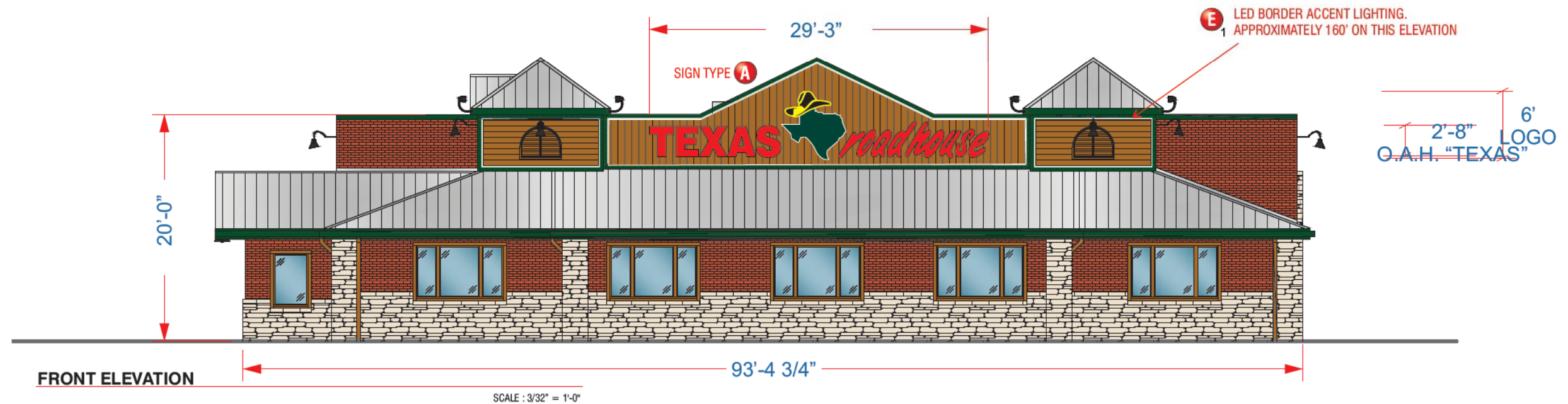
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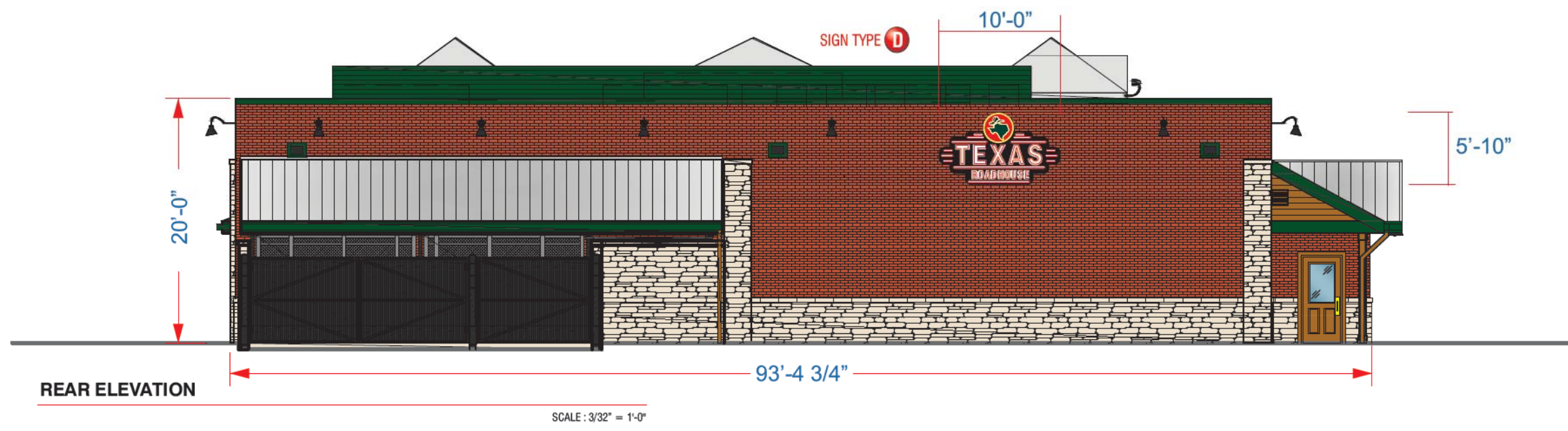
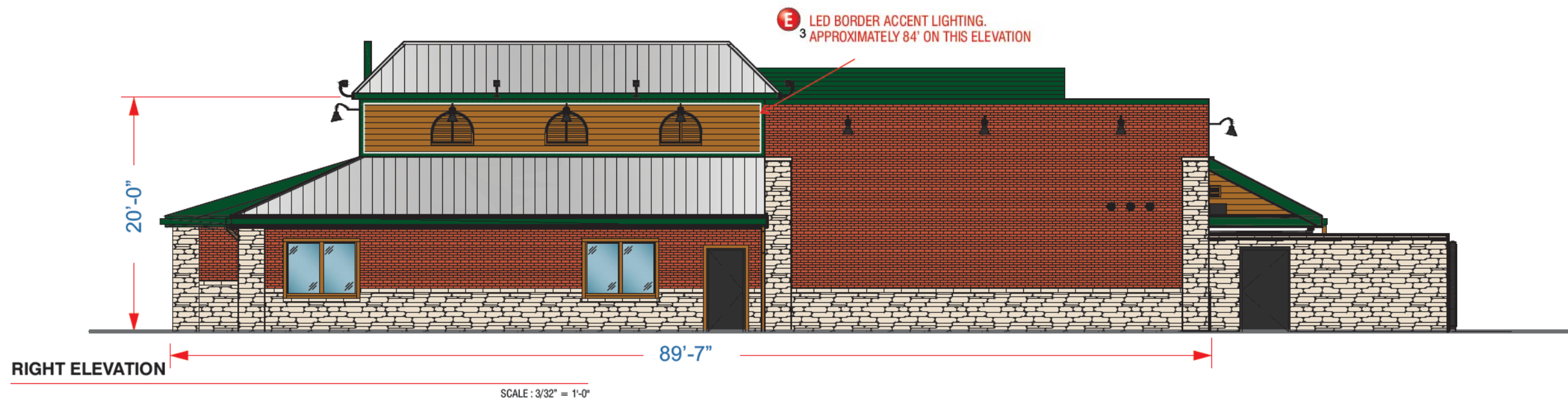
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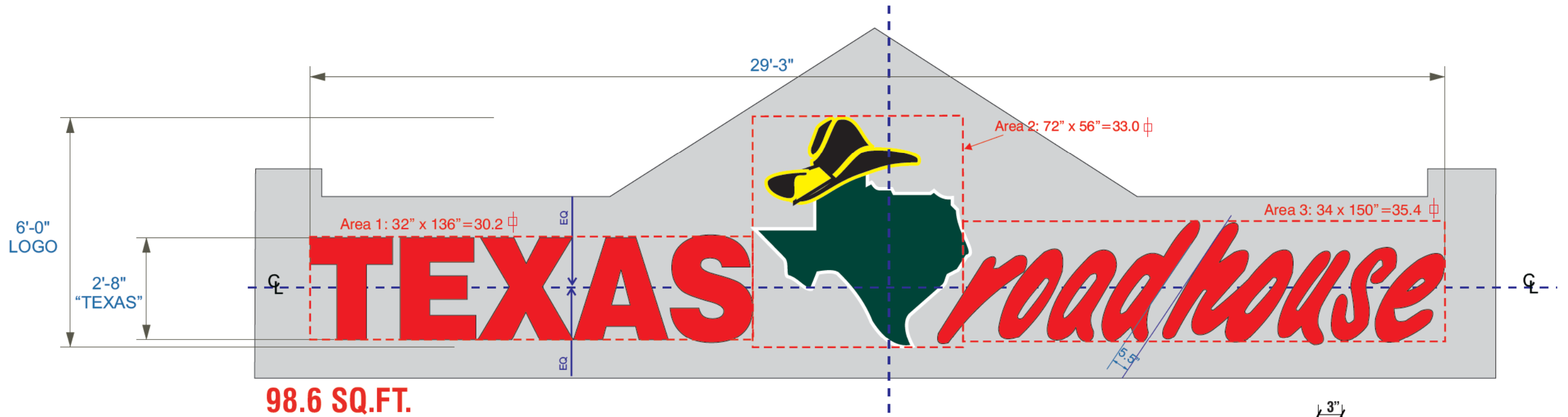
Sheet Number: 1 Of 8

Design Number: 23-44493-10R1

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SIGN TYPE **A**

Individual Lighted Channel Letters- One (1) Set Req'd.

SCOPE OF WORK:

Manufacture and install channel letters having remote transformers located in accessible area behind wall.

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

INSTALLER IS RESPONSIBLE FOR:

PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.
PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

ELECTRICAL REQUIREMENTS PER SIGN

Total: 16.8 Amps

(2) 120V 20A Circuit Required .

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

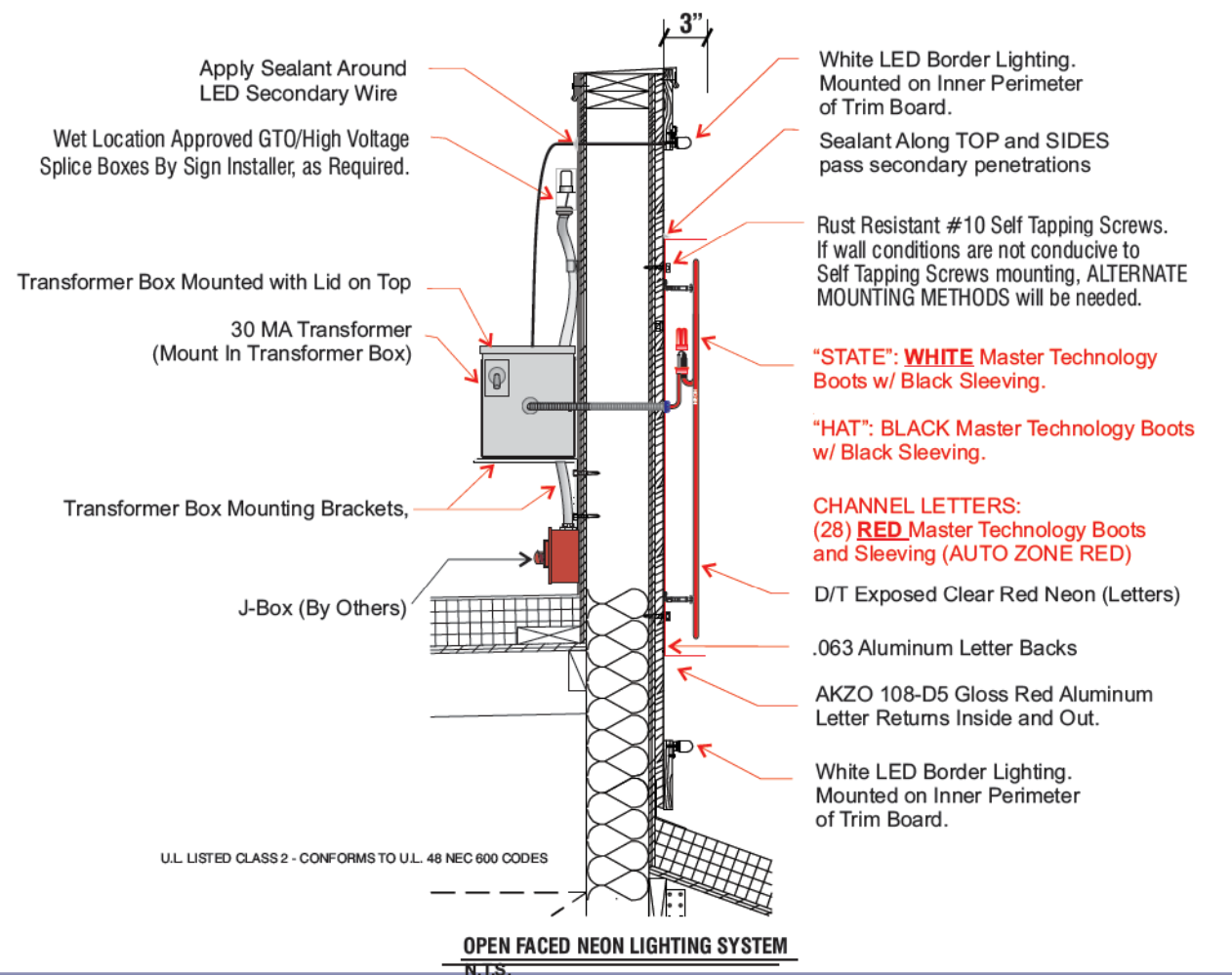
MATERIAL FINISH COLORS

| | | | | | | | |
|--|--|---|--|--|--|--|--|
| 
Letters: Returns and Face | 
Letters | 
Logo: "State" Returns and Face | 
Logo: "State" | 
Logo: "State" | 
Logo: "Hat" Returns & Face. | 
Logo: "Hat" | 
Logo: "Hat" |
|--|--|---|--|--|--|--|--|

CUSTOMER TO PROVIDE:

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN:
A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
C. Properly sized ground wire that can be traced back to the breaker panel must be provided.
D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.
Any deviation from the above recommendations may result in:
1. Damage to or improper operation of the sign(s).
2. Delays and additional costs.

Notes:
• Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
• Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.



160 W. Carmel Drive, Suite 236 Carmel, IN 46032
(317) 581-7790 Fax (317) 581-7783

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Atlanta - Tampa - Daytona Beach - Winter Park

Building Quality Signage Since 1901

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Project Manager: S. Maeser

Drawn By: S. Maeser

UL Underwriters Laboratories Inc. NEC ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

Project / Location:


NWQ W 146 ST. AND US HWY 131
CARMEL, IN

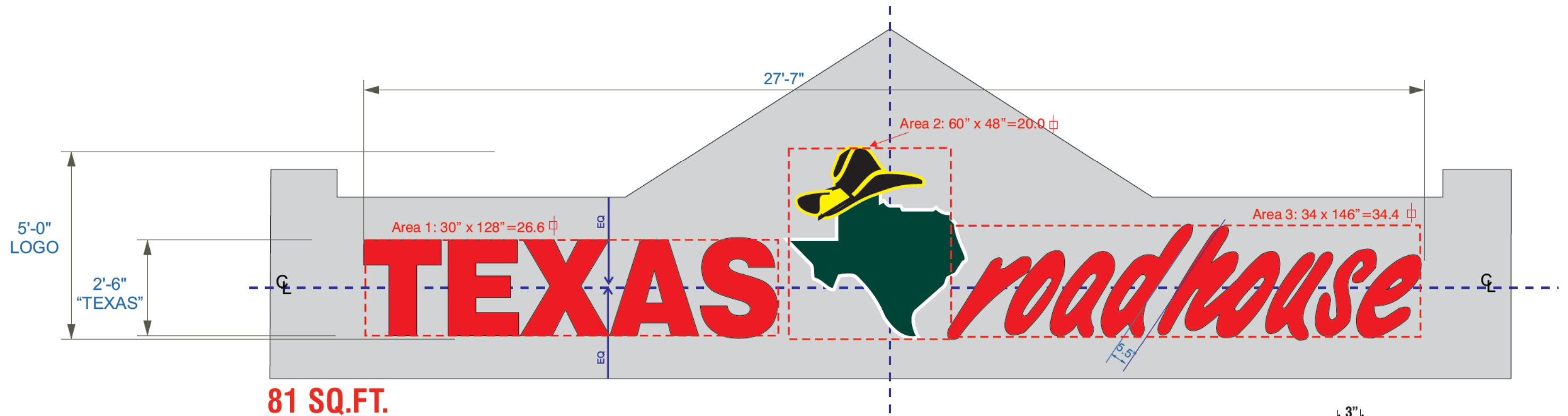
Job Number: 23-44493-10

Date: SEPTEMBER 5, 2017

Sheet Number: 4 Of 8

Design Number: 23-44493-10R1

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SIGN TYPE B Individual Lighted Channel Letters- One (1) Set Req'd.

SCOPE OF WORK:

Manufacture and install channel letters having remote transformers located in accessible area behind wall.

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

INSTALLER IS RESPONSIBLE FOR:

PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.
PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

ELECTRICAL REQUIREMENTS PER SIGN

Total: 16.8 Amps

(2) 120V 20A Circuit Required .

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL NOT BE SHARED WITH OTHER LOADS.

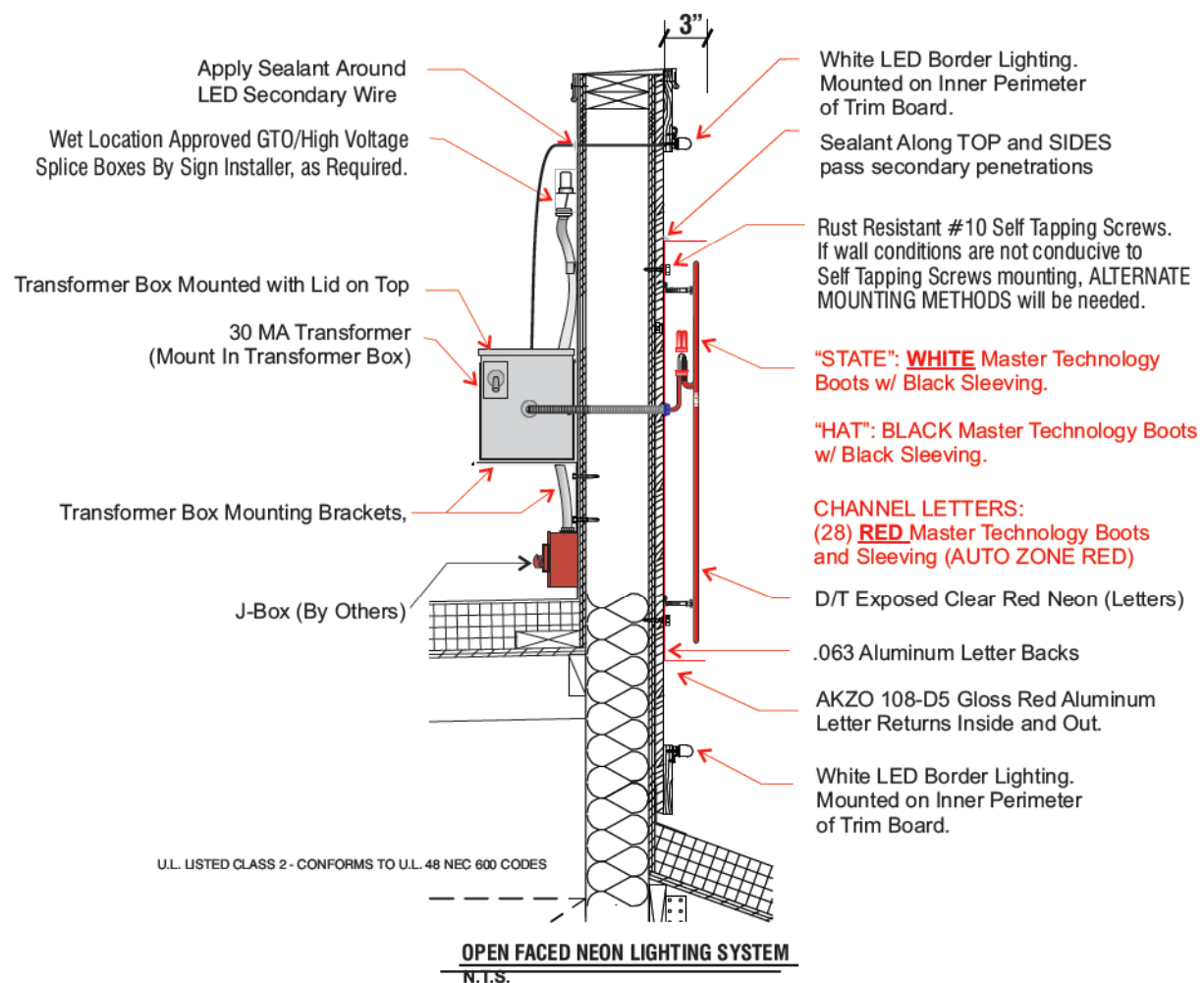
MATERIAL FINISH COLORS

| | | | | | | | |
|---------------------------|----------------------------|--------------------------------|--|---|-----------------------------|--|---|
| AKZO 108-D5 Gloss Red | Double Tube Clear Red Neon | AKZO Gloss White | 2100-24 Dk. Green Vinyl Applied to White Face Leaving White Outline. | Outlined W/ 6500Brite White Argon Tubing. | Match PMS-122 | 2100-03 Black Vinyl elements Applied to Yellow Bkgd. Leaving Yellow Outline. | Overlay "Hat" w/ Single tube Clear Brite Yellow Argon Tubing. |
| Letters: Returns and Face | Letters | Logo: "State" Returns and Face | Logo: "State" | Logo: "State" | Logo: "Hat" Returns & Face. | Logo: "Hat" | Logo: "Hat" |

CUSTOMER TO PROVIDE:

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN:
A. All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
B. Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
C. Properly sized ground wire that can be traced back to the breaker panel must be provided.
D. Number and size of circuits for each sign to meet Federal Heath Sign's requirement.
Any deviation from the above recommendations may result in:
1. Damage to or improper operation of the sign(s).
2. Delays and additional costs.

Notes:
• Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
• Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.



160 W. Carmel Drive, Suite 236 Carmel, IN 46032
(317) 581-7790 Fax (317) 581-7783

Manufacturing Facilities:
Oceanside - Eules - Jacksonville - Columbus
Office Locations:
Oceanside - Las Vegas - Laughlin - Idaho Falls
Eules - Jacksonville - Houston - San Antonio
Corpus Christi - Grafton - Milwaukee
Willowbrook - Louisville - Indianapolis - Columbus
Cincinnati - Westerville - Knoxville - Tunica
Atlanta - Tampa - Daytona Beach - Winter Park

Building Quality Signage Since 1901

Revisions:

R1:1/17/18-SM: UPDATED SITE PLAN/

Client Approval/Date:

Landlord Approval/Date:

Account Rep: **Randy Cearlock**

Project Manager: **S. Maeser**

Drawn By: **S. Maeser**

Underwriters Laboratories Inc. ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

Project / Location:

TEXAS roadhouse
NWQ W 146 ST. AND US HWY 131
CARMEL, IN

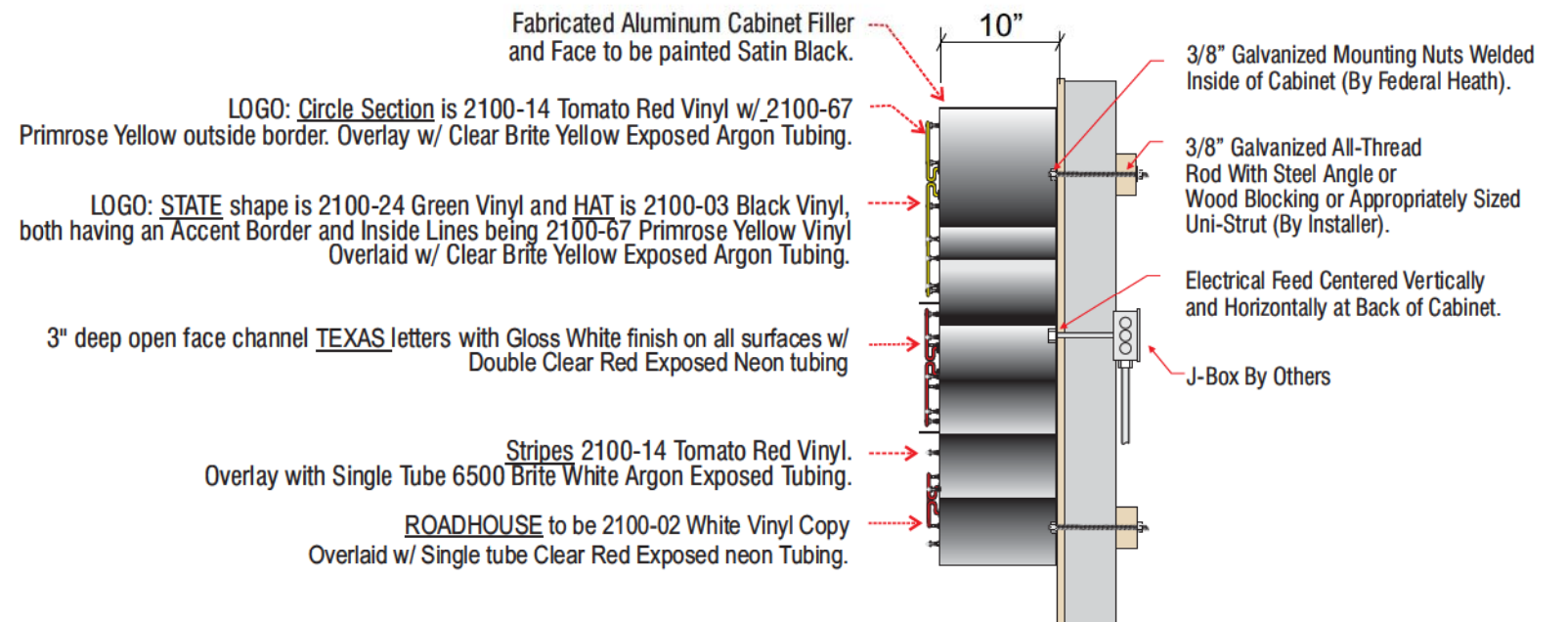
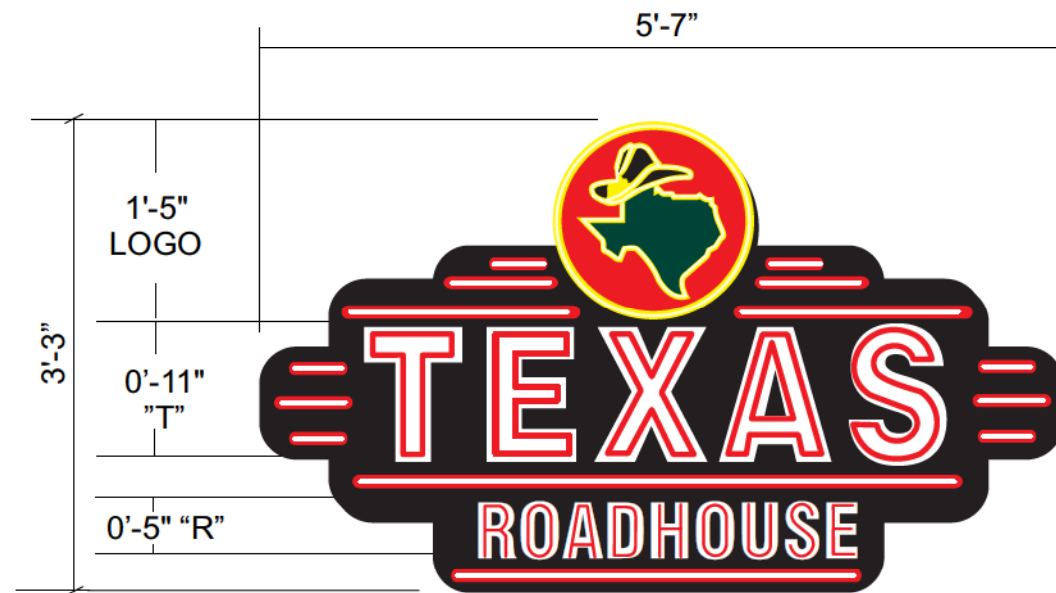
Job Number: **23-44493-10**

Date: **SEPTEMBER 5, 2017**

Sheet Number: **5** Of **8**

Design Number: **23-44493-10R1**

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Single Face Illuminated Wall Sign One (1) Req'd

SIGN TYPE **C**

Scale: 3/4"= 1'-0"

SCOPE OF WORK:

Manufacture and install S/F illuminated wall sign.

PART # TR18WSN

18.1 SQ. FT TOTAL

Typical Cabinet End View

CUSTOMER TO PROVIDE:

(For New / Remodel Construction) ADEQUATE BEHIND THE WALL BACKING AND ACCESS AS REQUIRED TO INSTALL SIGNAGE. CUSTOMER TO FORWARD COPY OF FINAL APPROVED SIGNAGE DRAWINGS TO BUILDING SITE CONTACT SO THAT THESE PROVISIONS CAN BE MADE DURING CONSTRUCTION AND PRIOR TO SIGN INSTALLATION.

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN:

- All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
- Sign circuits must not be shared with other loads such as lighting, air conditioning, and other equipment.
- Properly sized ground wire that can be traced back to the breaker panel must be provided.
- Number and size of circuits for each sign to meet Federal Heath Sign's requirement.

Any deviation from the above recommendations may result in:

- Damage to or improper operation of the sign(s).
- Delays and additional costs.

Notes: ① Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
② Some dimming devices will also adversely affect sign electrical components, causing failure. Any dimming of the sign without consultation with Federal Heath Sign Co. will void the warranty.

INSTALLER IS RESPONSIBLE FOR:

PROVIDING AND INSTALLING ALL COMPONENTS REQUIRED TO RUN SECONDARY WIRING (CONNECTORS, GTO CONDUIT, ETC.) TO BE DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

SEALING BUILDING PENETRATIONS WITH SILICONE TO PREVENT MOISTURE PENETRATION @ EXTERIOR LOCATIONS..

ELECTRICAL REQUIREMENTS

Total: 7.72 Amps

(1) 120V 20A Circuit Required.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL

MATERIAL FINISH COLORS

| | | | | |
|--|--|--|--|--|
|  AKZO Satin Black |  AKZO Gloss White |  Double Tube Clear Red Neon |  Single tube Clear Brite Yellow Argon Tubing. | |
| Cabinet and Face Bkgd | "TEXAS" Letters Inside and outside. | "Texas" and "Roadhouse" Letters | Logo: Circle, Hat and State | |
|  6500 Brite White Argon Tubing. |  2100-14 Tomato Red Vinyl |  2100-24 Dk. Green Vinyl |  2100-67 Primrose Yellow |  2100-03 Black Vinyl elements Applied to Yellow Bkgd. |
| Stripes | Logo Circle and Stripe Bkgd | Logo: "State" | Logo: Circle, Hat and State Border | Logo: "Hat" |



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Willowbrook - Louisville - Indianapolis - Columbus
Cincinnati - Westerville - Knoxville - Tunica
Atlanta - Tampa - Daytona Beach - Winter Park

Building Quality Signage Since 1901

Revisions:

R1:1/17/18-SM: UPDATED SITE PLAN/

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match

Client Approval/Date:

Landlord Approval/Date:

Account Rep: Randy Cearlock

Project Manager: S. Maeser

Drawn By: S. Maeser

UL Underwriters Laboratories Inc. NEC ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

Project / Location:

NWQ W 146 ST. AND US HWY 131
CARMEL, IN

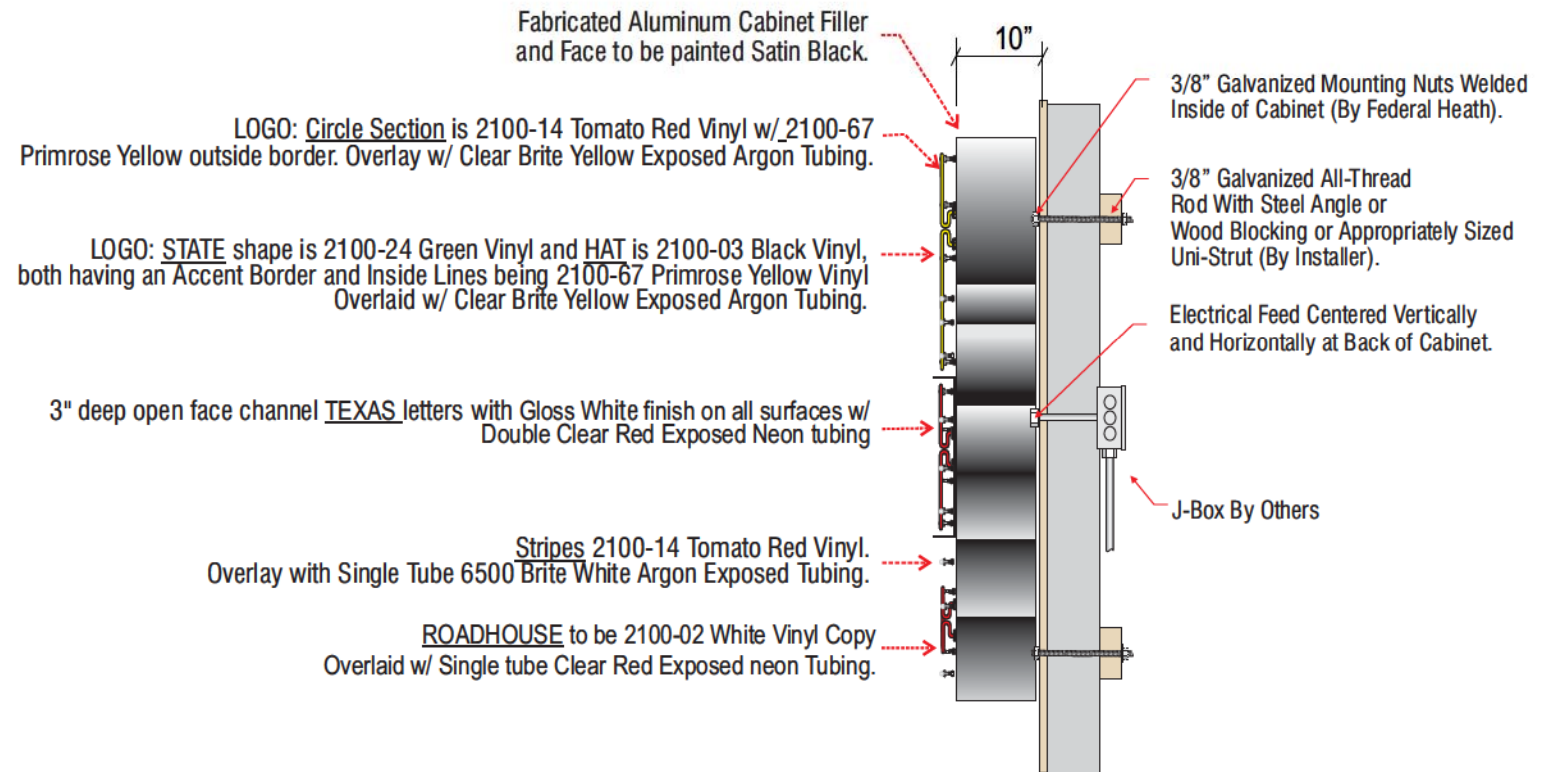
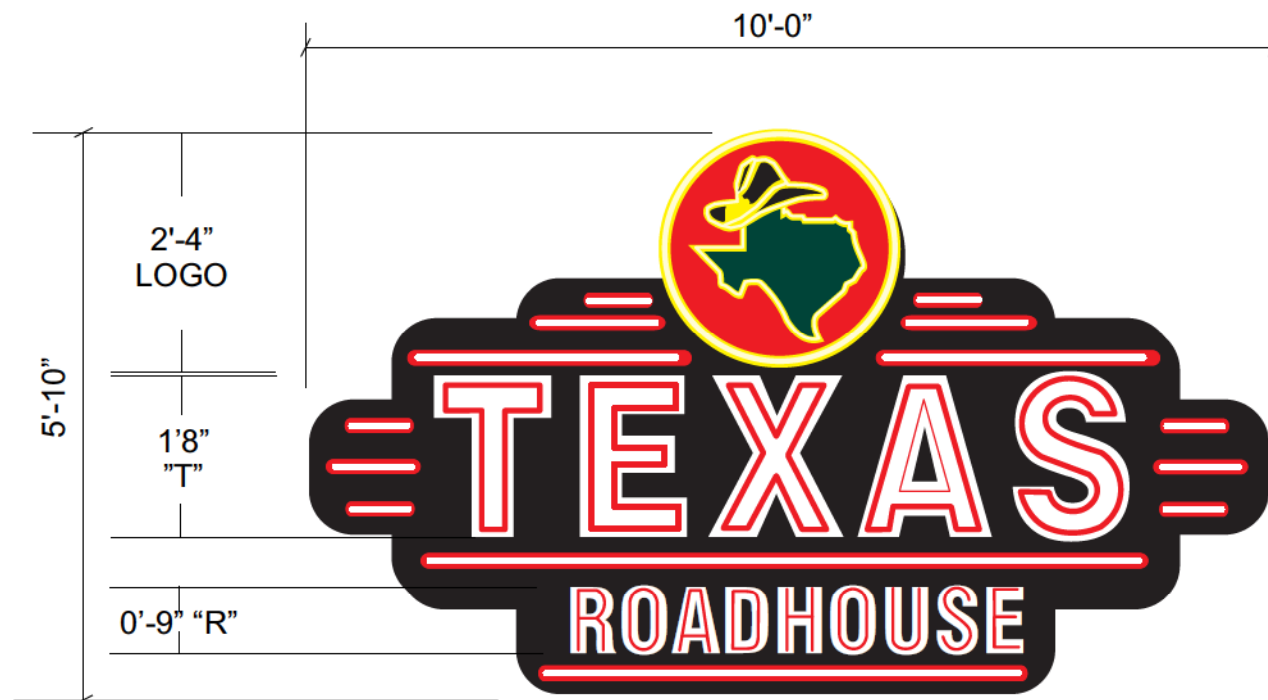
Job Number: 23-44493-10

Date: SEPTEMBER 5, 2017

Sheet Number: 6 Of 8

Design Number: 23-44493-10R1

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Single Face Illuminated Wall Sign One (1) Req'd

SIGN TYPE **D**

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

SCOPE OF WORK:

Manufacture and install S/F illuminated wall sign.

58.33 SQ. FT TOTAL

Typical Cabinet End View

CUSTOMER TO PROVIDE:

(For New / Remodel Construction) ADEQUATE BEHIND THE WALL BACKING AND ACCESS AS REQUIRED TO INSTALL SIGNAGE. CUSTOMER TO FORWARD COPY OF FINAL APPROVED SIGNAGE DRAWINGS TO BUILDING SITE CONTACT SO THAT THESE PROVISIONS CAN BE MADE DURING CONSTRUCTION AND PRIOR TO SIGN INSTALLATION.

ALL BRANCH (PRIMARY ELECTRICAL SERVICE) CIRCUITS & FINAL CONNECTION TO EACH SIGN (WITHIN 5 FT.) TO BE BY CERTIFIED ELECTRICIAN:

- All branch circuits for signs must be totally dedicated to signs (including dedicated ground and dedicated neutral per circuit).
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- Number and size of circuits for each sign to meet Federal Heath Sign's requirement.

Any deviation from the above recommendations may result in:

- Damage to or improper operation of the sign(s).
- Delays and additional costs.

Notes: ① Certain electrical components of signs will fail prematurely if signs are not shut-off for a period of time, once, each day. For best performance, we recommend signs to be connected to an automatic controlling device such as an Energy Management System, Time Clock or Photo Cell that will automatically shut-off the sign for a period of time, each day. Failure to do so will cause damage to the electrical components of the sign and will void the warranty.
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PROVIDING ALL NEEDED INSTALLATION HARDWARE AS DETERMINED BY LOCAL CODE AND SITE CONDITIONS.

SEALING BUILDING PENETRATIONS WITH SILICONE TO PREVENT MOISTURE PENETRATION @ EXTERIOR LOCATIONS..

ELECTRICAL REQUIREMENTS

Total: 9.62 Amps

(1) 120V 20A Circuit Required.

ALL BRANCH CIRCUITS SHALL BE DEDICATED TO SIGNS (INCLUDING GROUND AND NEUTRAL) AND SHALL

MATERIAL FINISH COLORS

| | | | |
|---|--|--|--|
|  AKZO Satin Black |  AKZO Gloss White |  Double Tube Clear Red Neon |  Single tube Clear Brite Yellow Argon Tubing |
| Cabinet and Face Bkgd | "TEXAS" Letters Inside and outside. | "Texas" and "Roadhouse" Letters | Logo: Circle, Hat and State |
|  6500 Brite White Argon Tubing |  2100-14 Tomato Red Vinyl |  2100-24 Dk. Green Vinyl |  2100-67 Primrose Yellow |
| Stripes | Logo Circle and Stripe Bkgd. | Logo: "State" | Logo: Circle, Hat and State Border. |
| | | |  2100-03 Black Vinyl elements Applied to Yellow Bkgd. |
| | | | Logo: "Hat" |



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Cincinnati - Westerville - Knoxville - Tunica
Atlanta - Tampa - Daytona Beach - Winter Park

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Revisions:

R1:1/17/18-SM: UPDATED SITE PLAN/

Colors Depicted In This Rendering May Not Match Actual Finished Materials. Refer To Product Samples For Exact Color Match

Client Approval/Date:

Landlord Approval/Date:

Account Rep: Randy Cearlock

Project Manager: S. Maeser

Drawn By: S. Maeser

Underwriters Laboratories Inc. ELECTRICAL TO USE U.L.-48 LISTED COMPONENTS AND SHALL MEET ALL N.E.C. STANDARDS

Project / Location:


NWQ W 146 ST. AND US HWY 131
CARMEL, IN

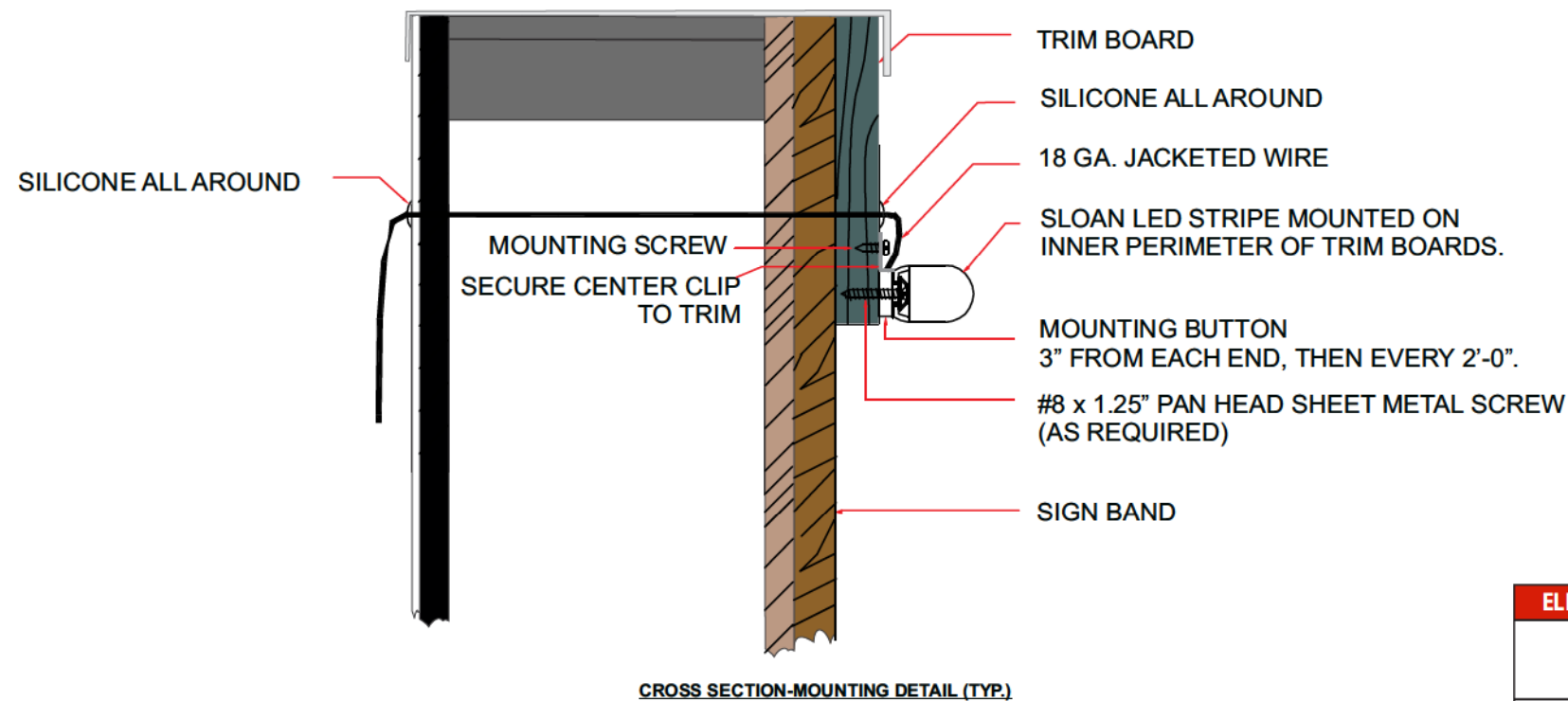
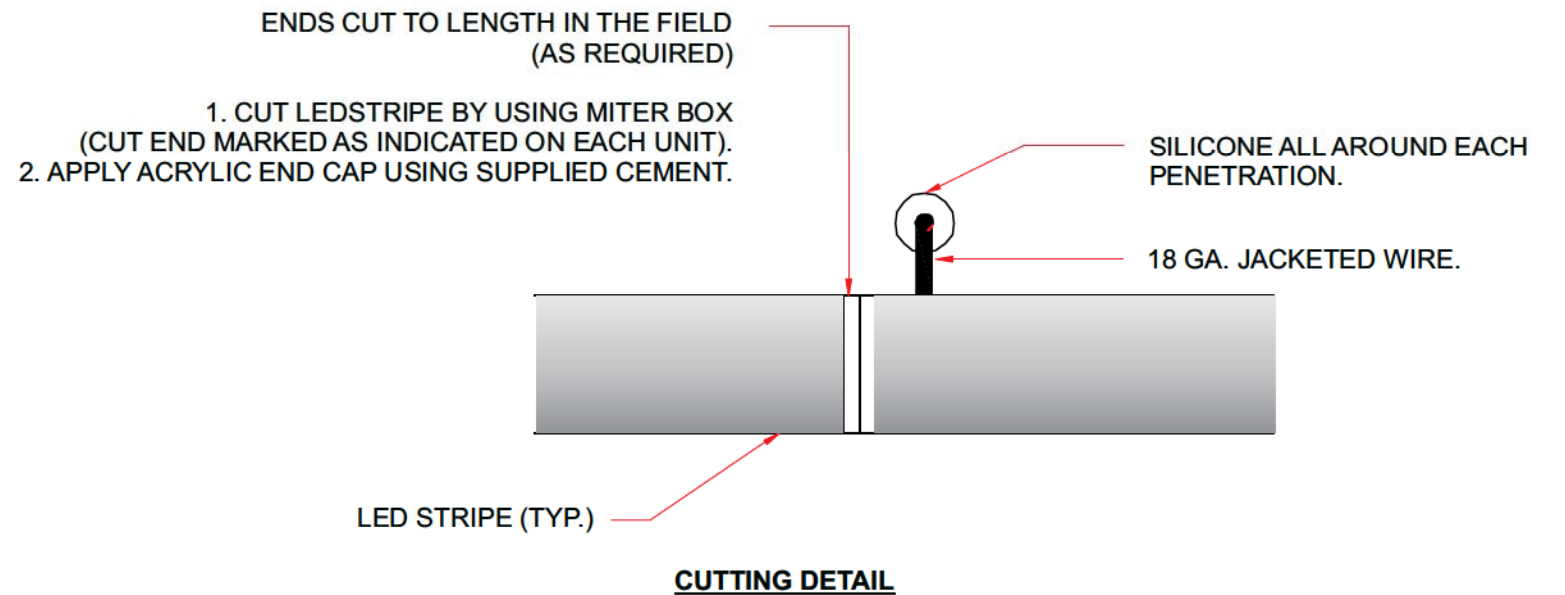
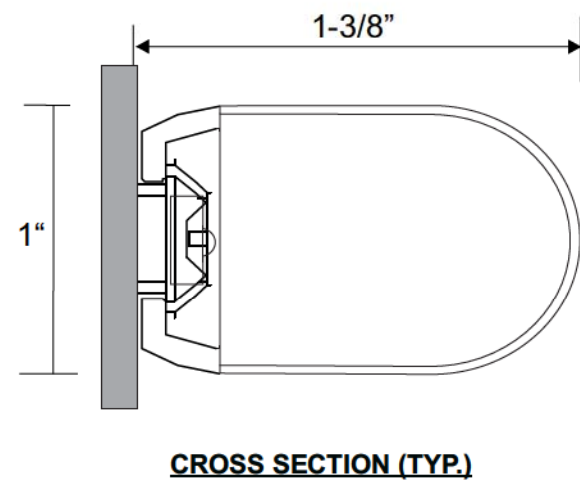
Job Number: 23-44493-10

Date: SEPTEMBER 5, 2017

Sheet Number: 7 Of 8

Design Number: 23-44493-10R1

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| ELECTRICAL REQUIREMENTS | |
|---|--|
| Total: <u>6.0</u> Amps | ALL BRANCH CIRCUITS SHALL BE
DEDICATED TO SIGNS (INCLUDING
GROUND AND NEUTRAL) AND
SHALL NOT BE SHARED WITH
OTHER LOADS. |
| (<u>1</u>) 120V 20A Circuit Required. | |

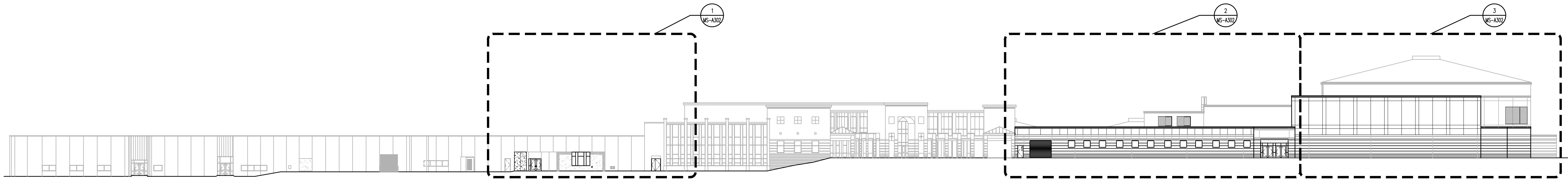
LED ACCENT LIGHTING **E** 1, 2 and 3

LEDSTRIP DETAIL

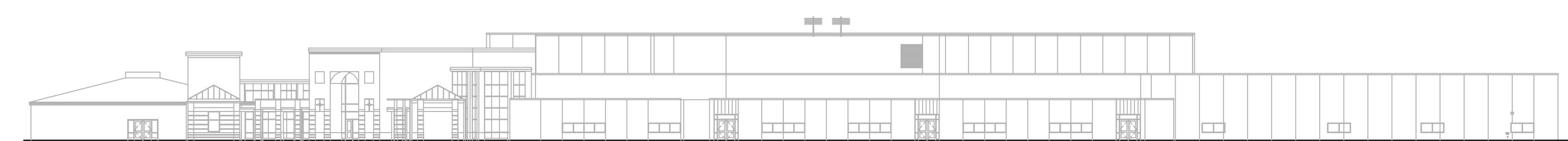
SCOPE OF WORK:

Manufacture and install LED accent lighting on three elevation having remote transformers located in accessible area behind wall.
(Transformers shall be mounted in Transformer Box if mounted outside of shelter.

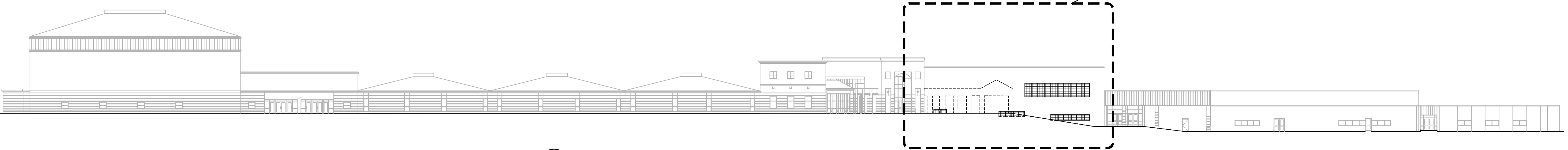
SCALE : NTS



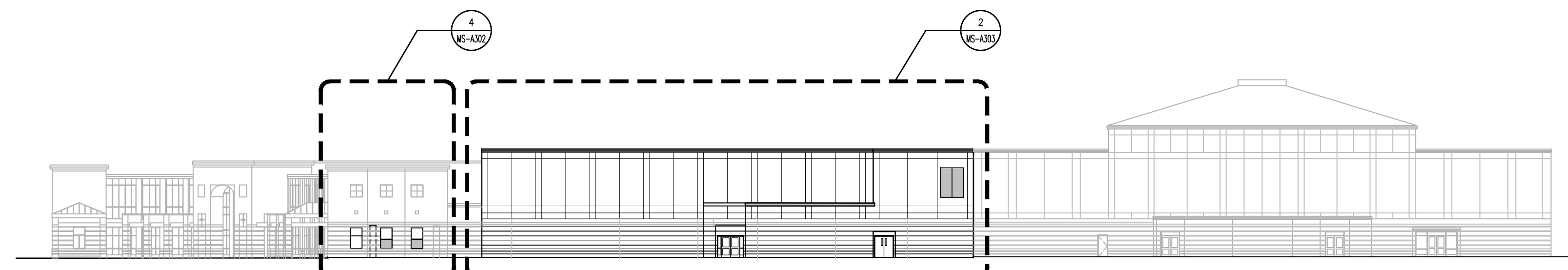
1 NORTH BUILDING ELEVATION
MS-A301 SCALE: 1" = 25'-0"



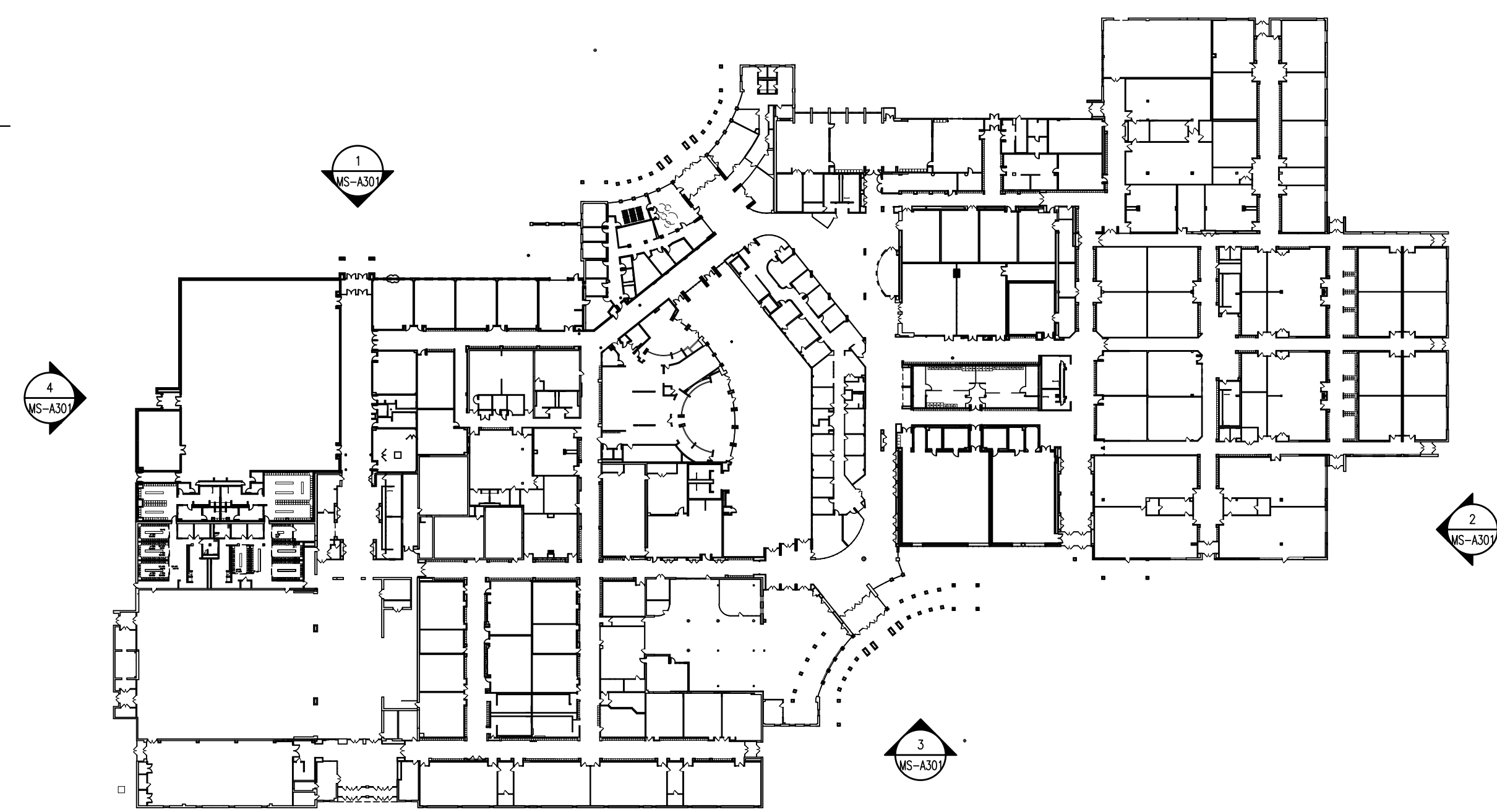
2 EAST BUILDING ELEVATION
MS-A301 SCALE: 1/25" = 1'-0"



3 SOUTH BUILDING ELEVATION
MS-A301 SCALE: 1" = 25'-0"



4 WEST BUILDING ELEVATION
MS-A301 SCALE: 1" = 25'-0"



5 OVERALL FIRST FLOOR PLAN
MS-A301 SCALE: 1/64" = 1'-0"



CSO Architects
ARCHITECTURE - INTERIOR DESIGN
8831 Keystone Crossing - Indianapolis, IN 46240
Main 317.848.7800 - csoinc.net
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PROJECT: **WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS**
345 W ROOVER ST WESTFIELD, INDIANA 46074

FOR: **Westfield Washington School Corp.**

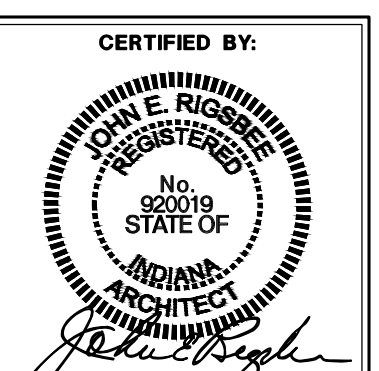
SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design, concepts, the dimensions of the building, the major structural elements and the type of materials, finishes and fixtures to be used. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the full information and data are required for the proper execution and completion of the work.

REVISIONS:

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
|-----|------|-------------|

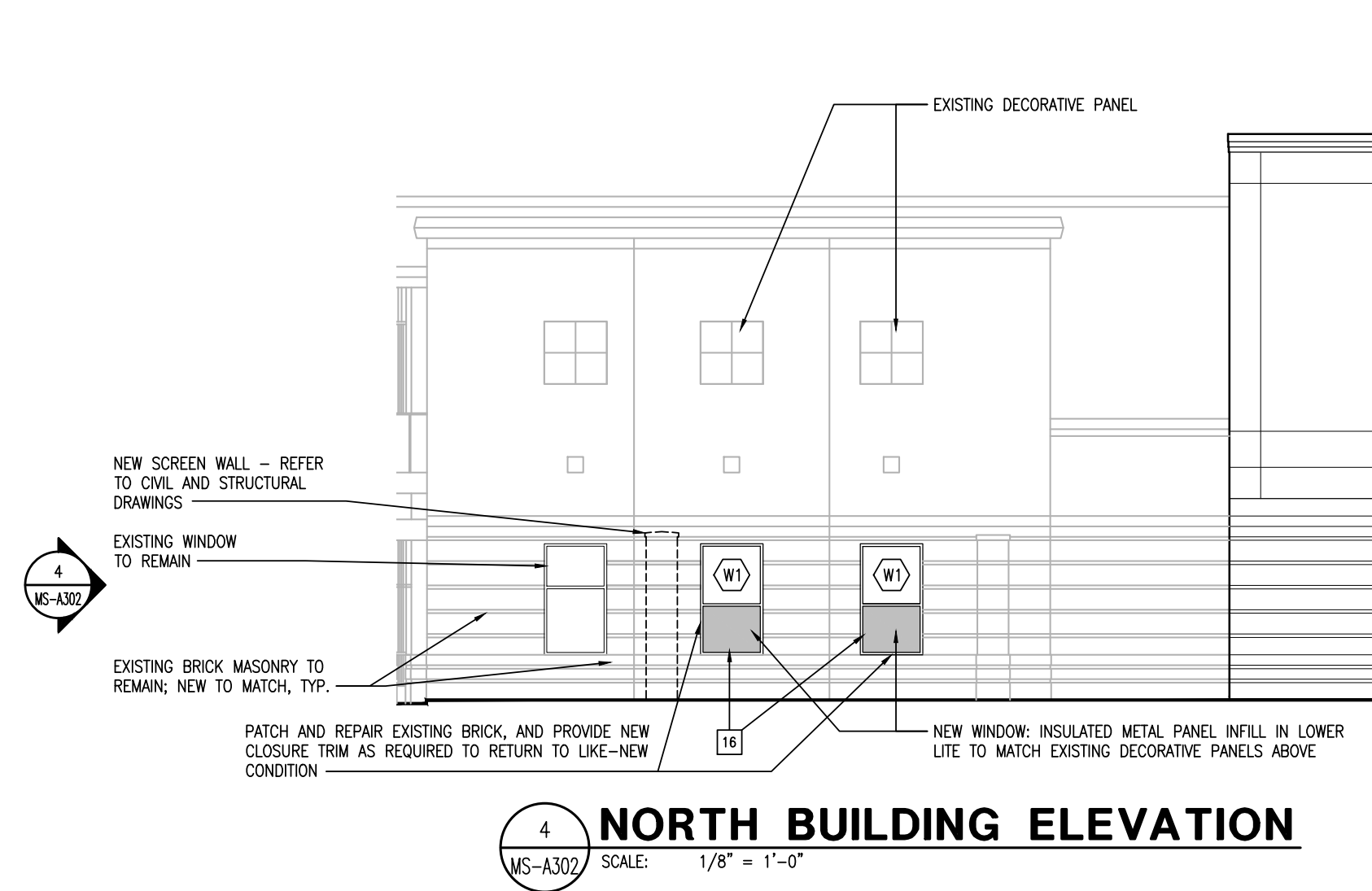
| ISSUE DATE | DRAWN BY | CHECKED BY |
|------------|----------|------------|
| 01-31-2018 | EON | AER |

DRAWING TITLE:
**OVERALL
BUILDING
ELEVATIONS**

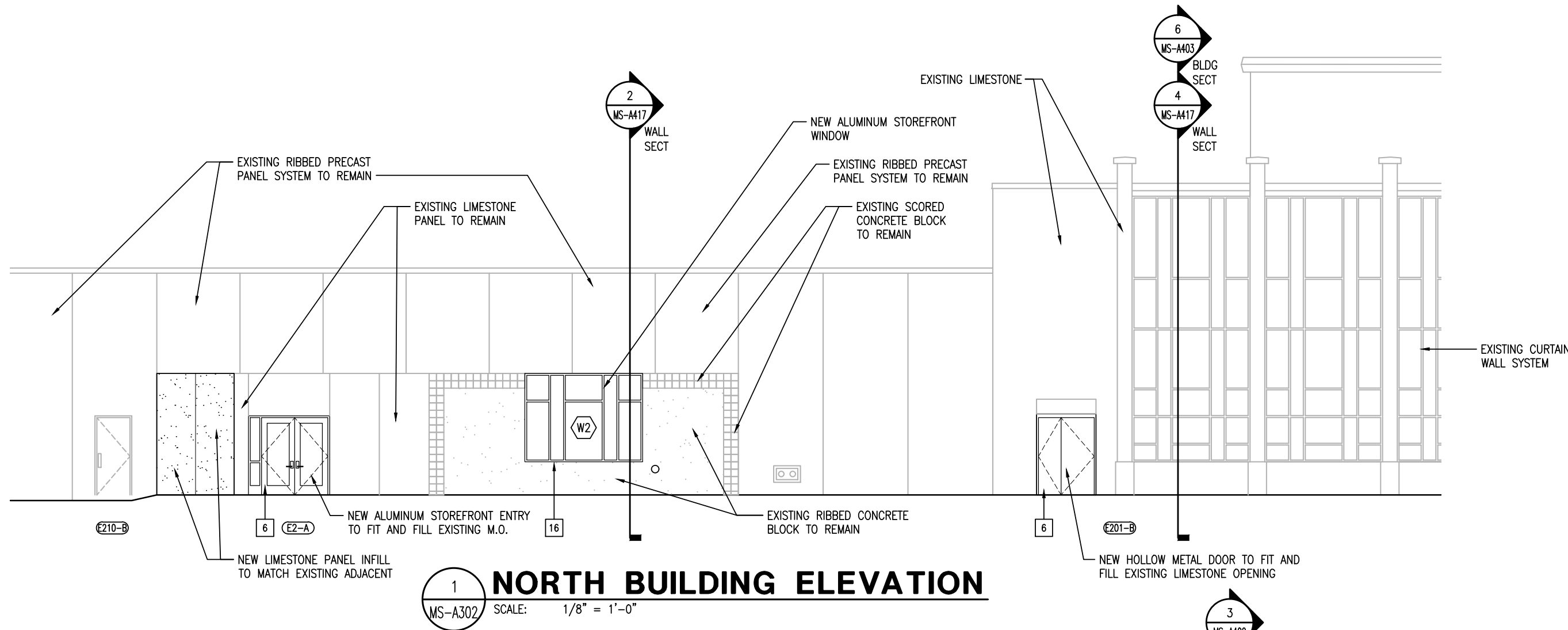
CERTIFIED BY:

John E. Riggs

DRAWING NUMBER
MS-A301

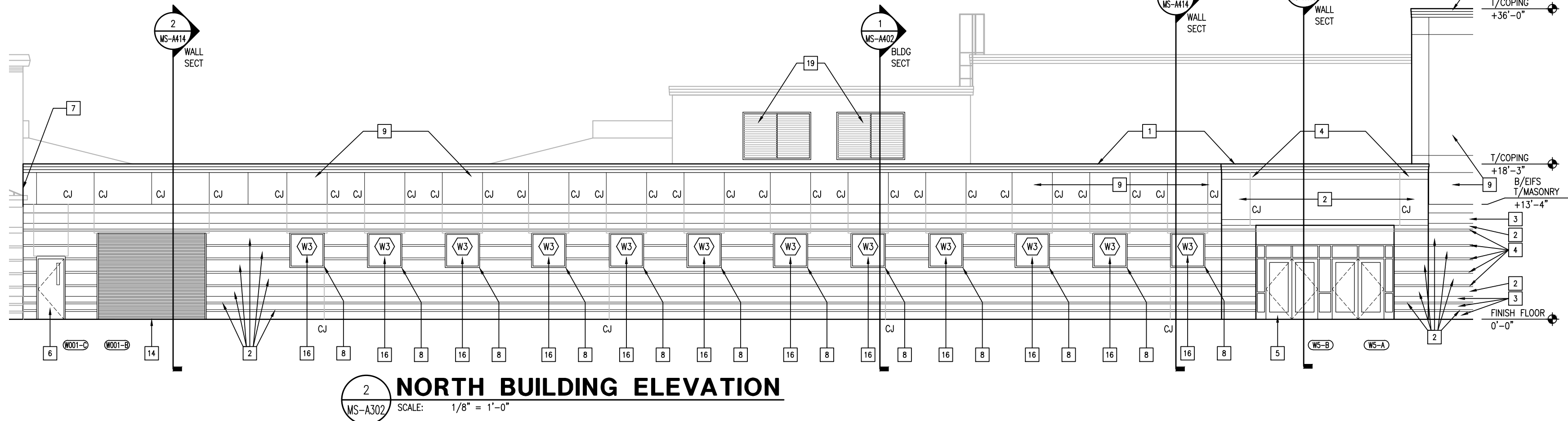
PROJECT NUMBER
17075



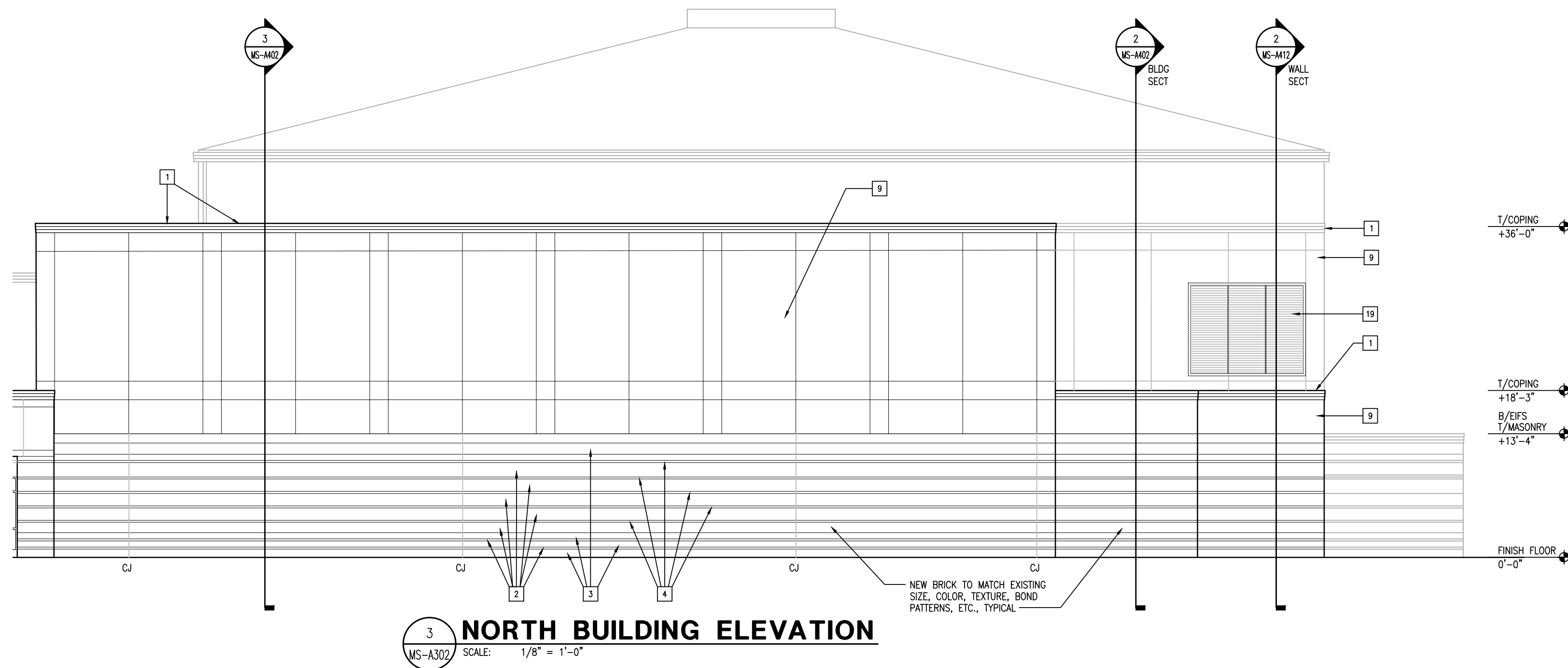
4 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



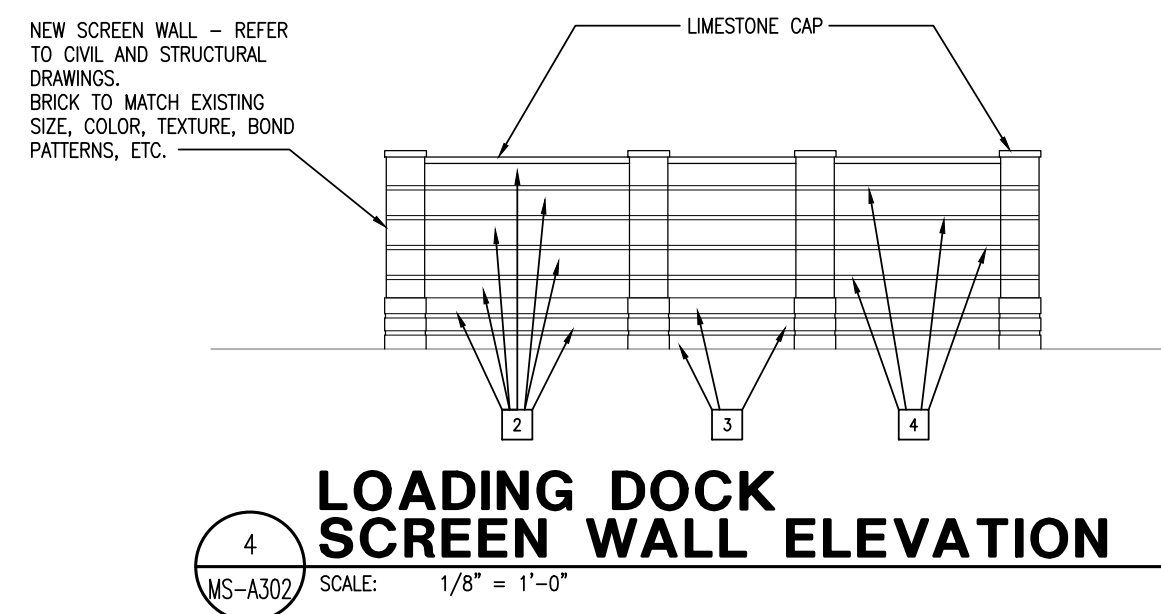
1 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



3 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



4 LOADING DOCK SCREEN WALL ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATION NOTES

- 1 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM COPING SYSTEM. MATCH EXISTING COLOR AND PROFILE.
- 2 BRICK VENEER #1 - BRICK TO MATCH EXISTING SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; RUNNING BOND
- 3 BRICK VENEER #2 - BRICK TO MATCH EXISTING RECESS, SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; 1/3 RUNNING BOND
- 4 BRICK VENEER #3 - BRICK TO MATCH EXISTING RECESS, SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; 1/3 RUNNING BOND
- 5 6" ALUMINUM STOREFRONT/ENTRANCE. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 6 HOLLOW METAL DOOR AND FRAME. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 7 2" EXPANSION JOINT
- 8 SILL BY WINDOW SYSTEM MANUFACTURER TO MATCH WINDOW
- 9 EXTERIOR INSULATION FINISH SYSTEM (EIFS) TO MATCH EXISTING
- 10 ALUMINUM CURTAINWALL SYSTEM. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 11 METAL EXTERIOR DOOR NUMBER SIGNAGE TO MATCH EXISTING
- 12 PRE-FINISHED GUTTER AND DOWNSPOUTS
- 13 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM GRAVEL STOP/ ROOF EDGE
- 14 COILING OVERHEAD DOOR.
- 15 EXISTING WINDOW SYSTEM SHALL BE MODIFIED TO ACCOMMODATE NEW OPENING.
- 16 6" STOREFRONT OPENING SYSTEM. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 17 TRANSLUCENT FIBERGLASS SANDWICH PANEL ASSEMBLY TO FIT AND FILL EXISTING MASONRY OPENING
- 18 NOT USED
- 19 NEW LOUVER - REFER TO MECHANICAL DRAWINGS



CSO Architects
ARCHITECTURE - INTERIOR DESIGN
8631 Krynauke Crossing - Indianapolis, IN 46240
Main 317.548.7800 - csoinc.net

PROJECT:
**WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS**
345 W HOOVER ST WESTFIELD, INDIANA 46074
FOR:
Westfield Washington School Corp.

SCOPE DRAWINGS:
These drawings illustrate the general scope of the project in terms of architectural design, concepts, the determination of the building, the major architectural elements and the type of materials, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the project.
To the extent of the general scope indicated or described, the full information and scope of work required for the proper execution and completion of the work.

REVISIONS:

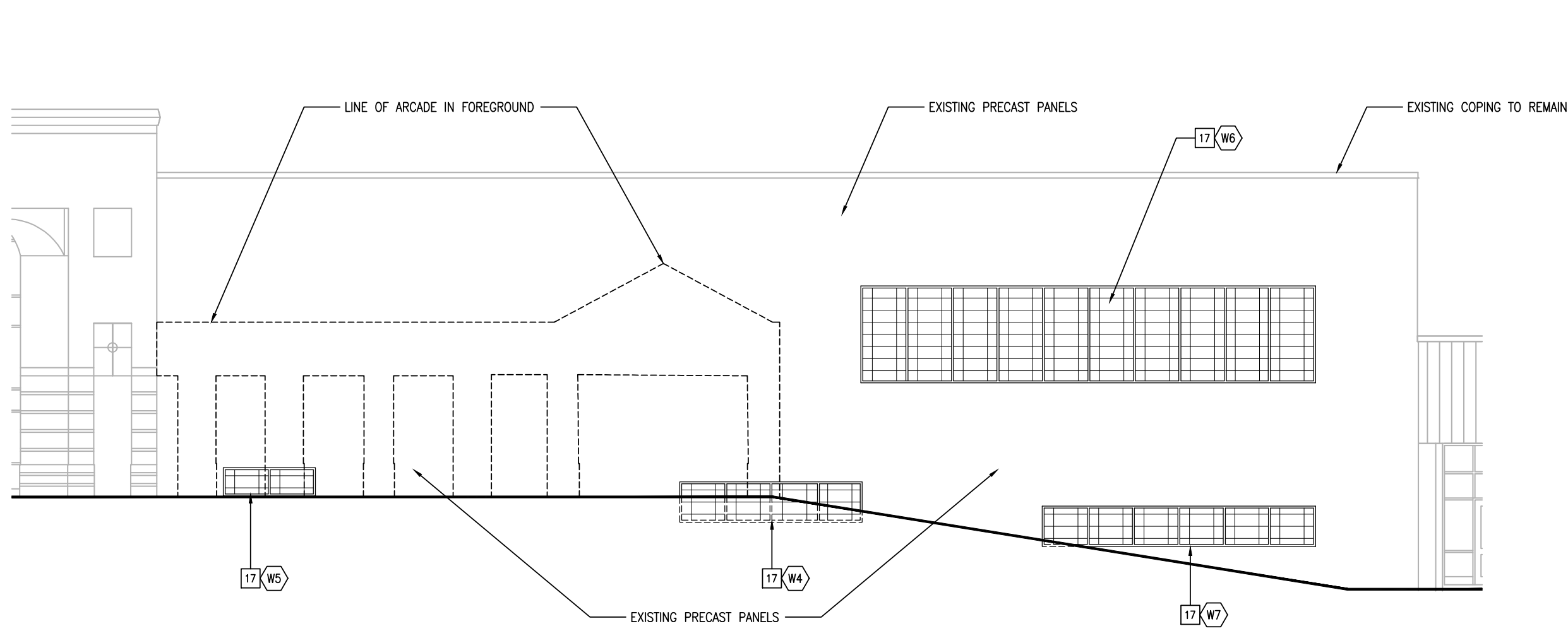
ISSUE DATE 01-31-2018 DRAWN BY --- CHECKED BY ---

DRAWING TITLE:
**PARTIAL
BUILDING
ELEVATIONS**

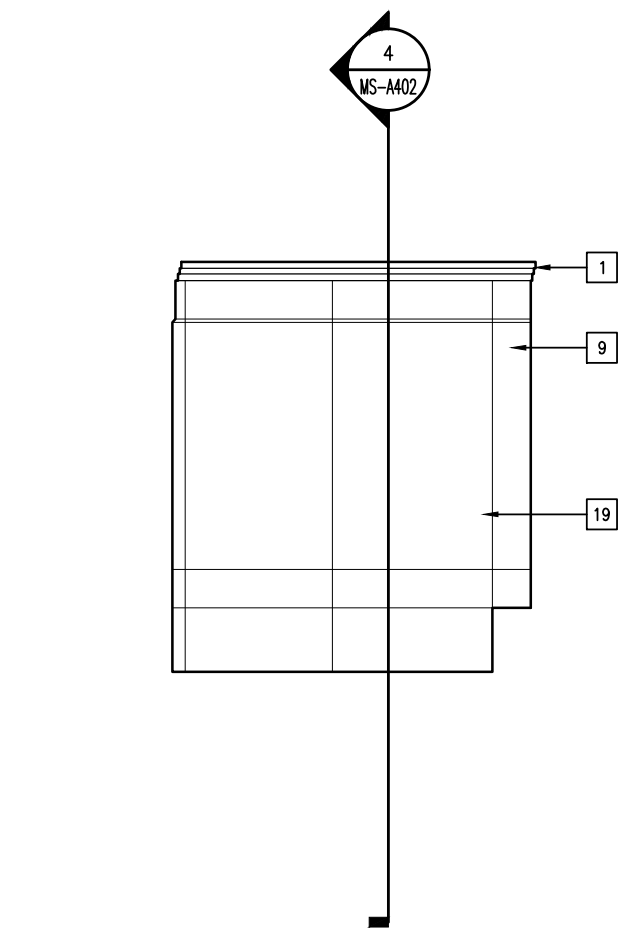
CERTIFIED BY:
JOHN E. RIGGS
REGISTERED
No. 000019
STATE OF
INDIANA
ARCHITECT
John E. Riggs

DRAWING NUMBER
MS-A302

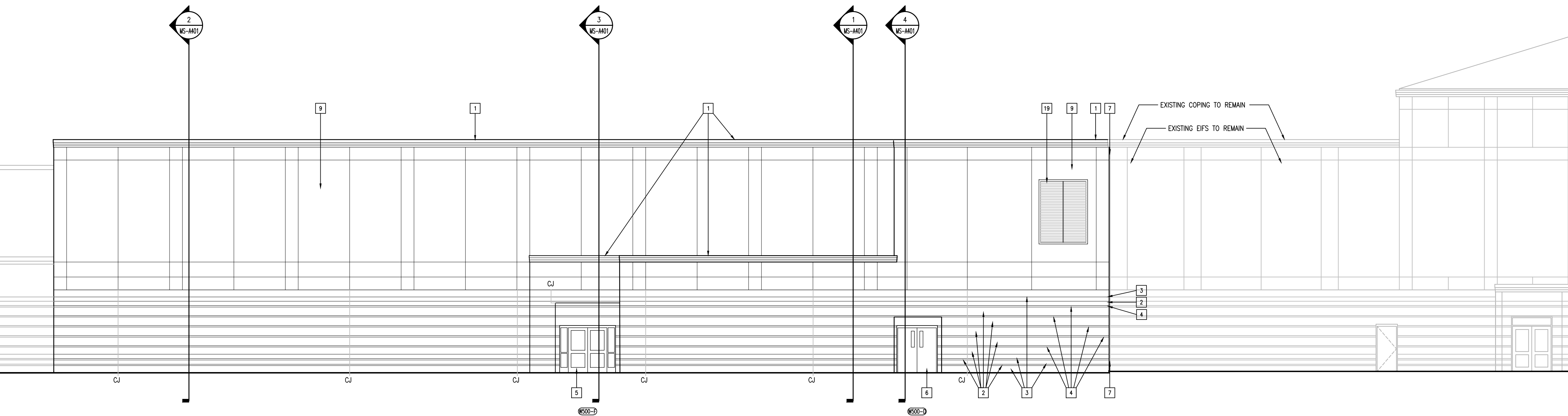
PROJECT NUMBER
17075



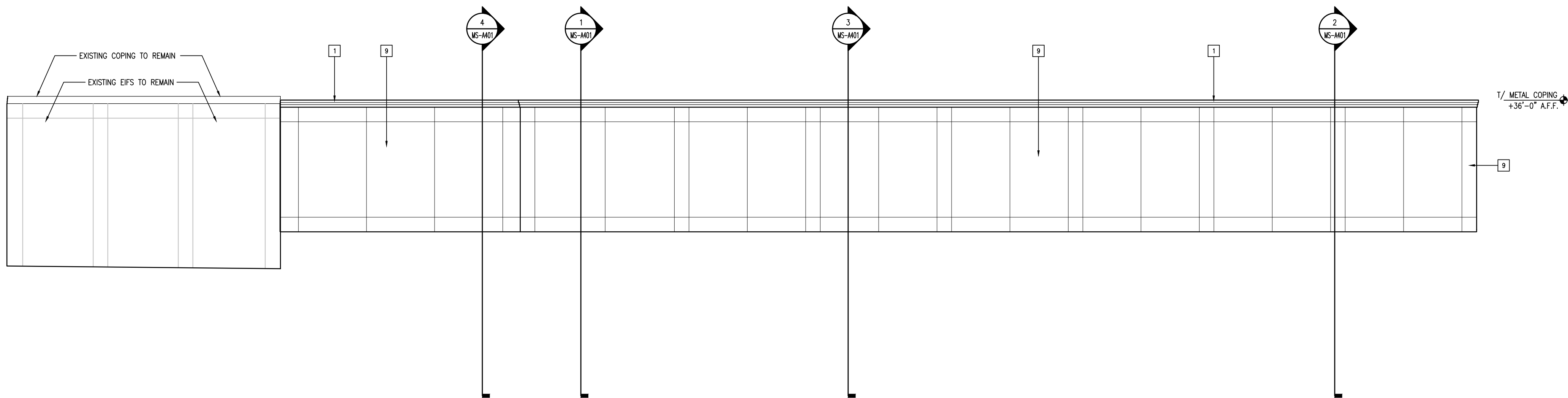
1 SOUTH BUILDING ELEVATION
MS-A303 SCALE: 1/8" = 1'-0"



3 SOUTH BUILDING ELEVATION
MS-A303 SCALE: 1/8" = 1'-0"



2 WEST BUILDING ELEVATION
MS-A303 SCALE: 1/8" = 1'-0"



4 EAST BUILDING ADDITION ELEVATION
MS-A303 SCALE: 1/8" = 1'-0"

ELEVATION NOTES

- 1 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM COPING SYSTEM. MATCH EXISTING COLOR AND PROFILE.
- 2 BRICK VENEER #1 - BRICK TO MATCH EXISTING SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; RUNNING BOND.
- 3 BRICK VENEER #2 - BRICK TO MATCH EXISTING RECESS, SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; RUNNING BOND.
- 4 BRICK VENEER #3 - BRICK TO MATCH EXISTING RECESS, SIZE, COLOR, TEXTURE, MORTAR COLOR, ETC.; 1/3 RUNNING BOND.
- 5 6" ALUMINUM STOREFRONT/ENTRANCE. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 6 HOLLOW METAL DOOR AND FRAME. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 7 2" EXPANSION JOINT.
- 8 SILL BY WINDOW SYSTEM MANUFACTURER TO MATCH WINDOW.
- 9 EXTERIOR INSULATION FINISH SYSTEM (EIFS) TO MATCH EXISTING.
- 10 ALUMINUM CURTAINWALL SYSTEM. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 11 METAL EXTERIOR DOOR NUMBER SIGNAGE TO MATCH EXISTING.
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- 16 6" STOREFRONT OPENING SYSTEM. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 17 TRANSLUCENT FIBERGLASS SANDWICH PANEL ASSEMBLY TO FIT AND FILL EXISTING MASONRY OPENING.
- 18 NOT USED.
- 19 NEW LOUVER - REFER TO MECHANICAL DRAWINGS.



CSO Architects
ARCHITECTURE - INTERIOR DESIGN
8831 Keystone Crossing - Indianapolis, IN 46240
Main 317.648.7800 - csoinc.net

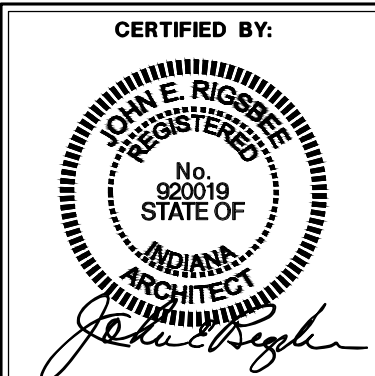
PROJECT:
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
345 W HOOVER ST WESTFIELD, INDIANA 46074
FOR:
Westfield Washington School Corp.

SCOPE DRAWINGS:
These drawings indicate the general scope of the project in terms of architectural design, concepts, the determination of the building, the major architectural elements and the type of structure, materials and finishes. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the final information and details are required for the proper execution and completion of the work.

| REVISIONS: | |
|------------|--|
| | |

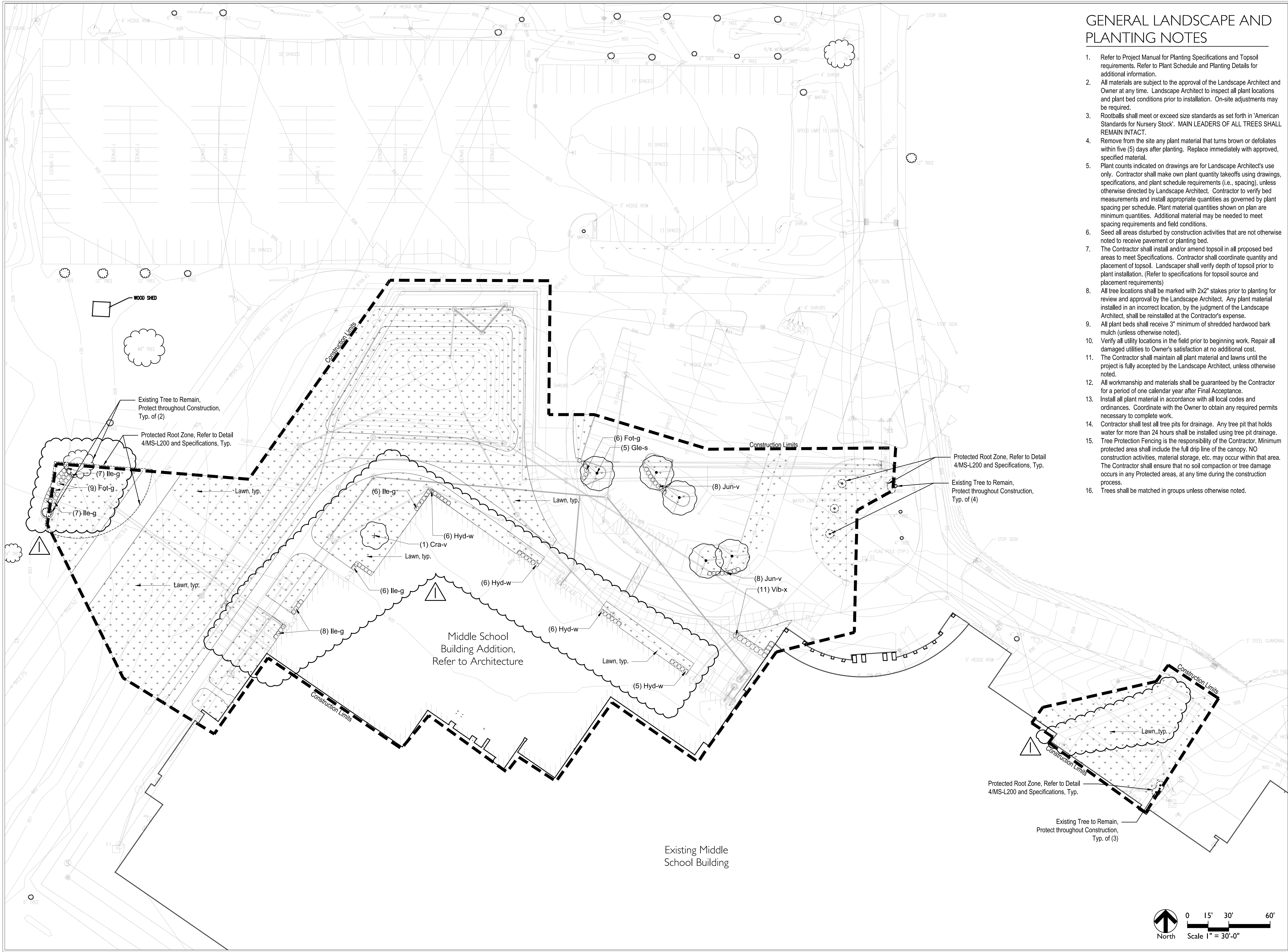
| ISSUE DATE | DRAWN BY | CHECKED BY |
|------------|----------|------------|
| 01-31-2018 | --- | --- |

DRAWING TITLE:
PARTIAL BUILDING ELEVATIONS



DRAWING NUMBER
MS-A303

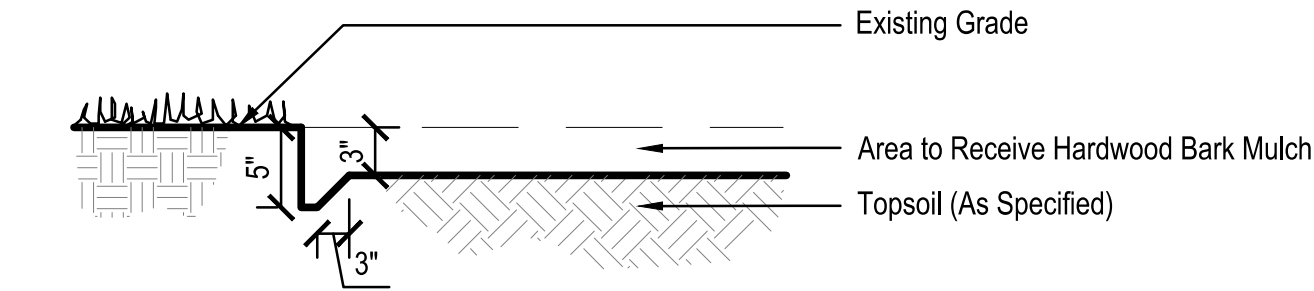
PROJECT NUMBER
17075



GENERAL LANDSCAPE AND PLANTING NOTES

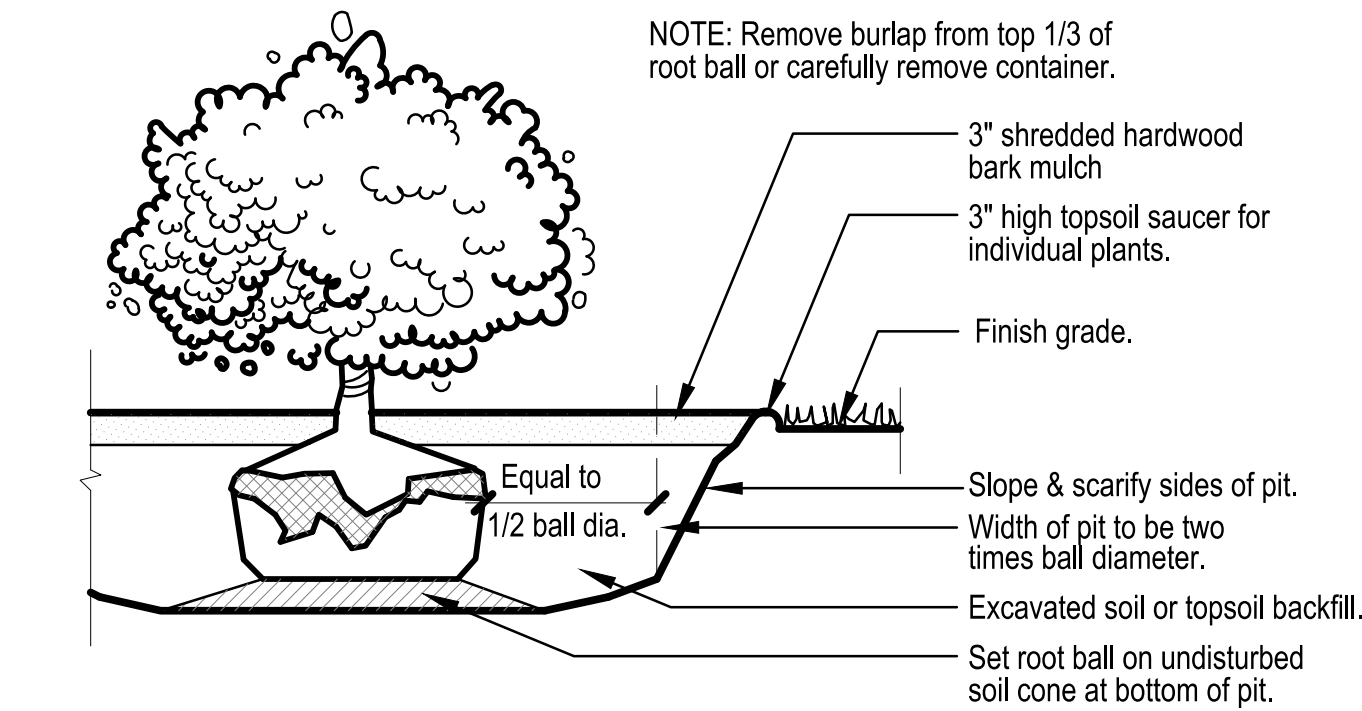
1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be required.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
4. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
5. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
6. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement or planting bed.
7. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
8. All tree locations shall be marked with 2x2\"/>

| PLANT SCHEDULE | | | | | | |
|----------------|-----|---|-----------------------------------|-----------|------------|--------------------------------------|
| TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | REMARKS |
| Cra-v | 1 | Crataegus viridis 'Winter King' | Winter King Hawthorn | B & B | 2"Cal | full, strong central leader, matched |
| Gle-s | 5 | Gleditsia triacanthos inermis 'Shademaster' | Shademaster Thornless Honeylocust | B & B | 2"Cal | full, strong central leader, matched |
| | | | | | | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | HEIGHT | REMARKS |
| Fot-g | 15 | Fothergilla gardenii | Dwarf Fothergilla | container | 24" | space @ 3'-0" o.c. |
| Hyd-w | 23 | Hydrangea quercifolia 'Pee Wee' | Pee Wee Oakleaf Hydrangea | container | 24" | space @ 3'-0" o.c. |
| Ile-g | 34 | Ilex glabra 'Chamzin' TM | Nordic Holly | container | 24" | space @ 3'-0" o.c. |
| Jun-v | 16 | Juniperus virginiana 'Grey Owl' | Grey Owl Juniper | container | 18" spread | space @ 3'-0" o.c., allow to mass |
| Vib-x | 11 | Viburnum x juddii | Judd Viburnum | container | 24" | space @ 5'-0" o.c. |



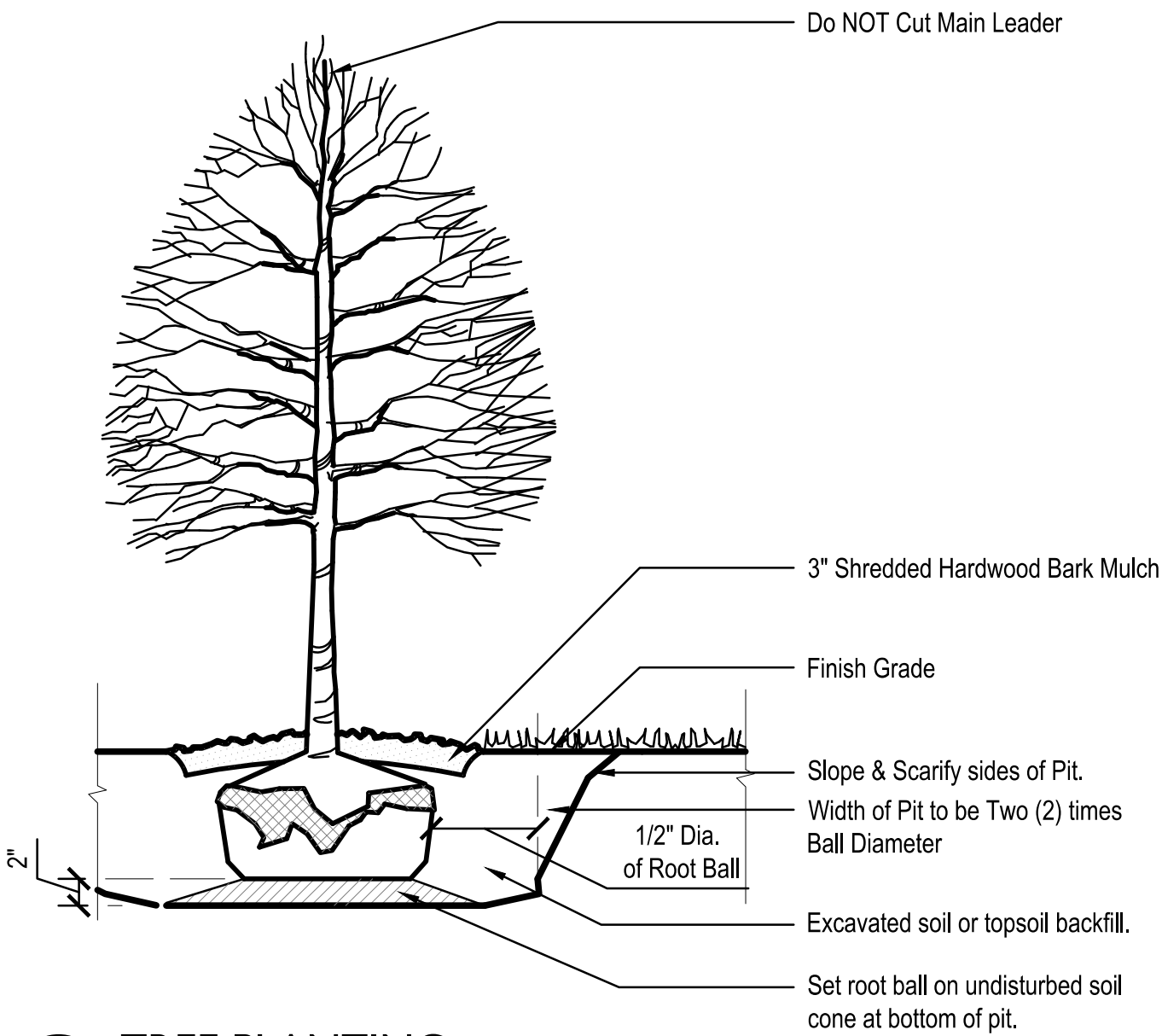
3 SPADE EDGE

Not to Scale



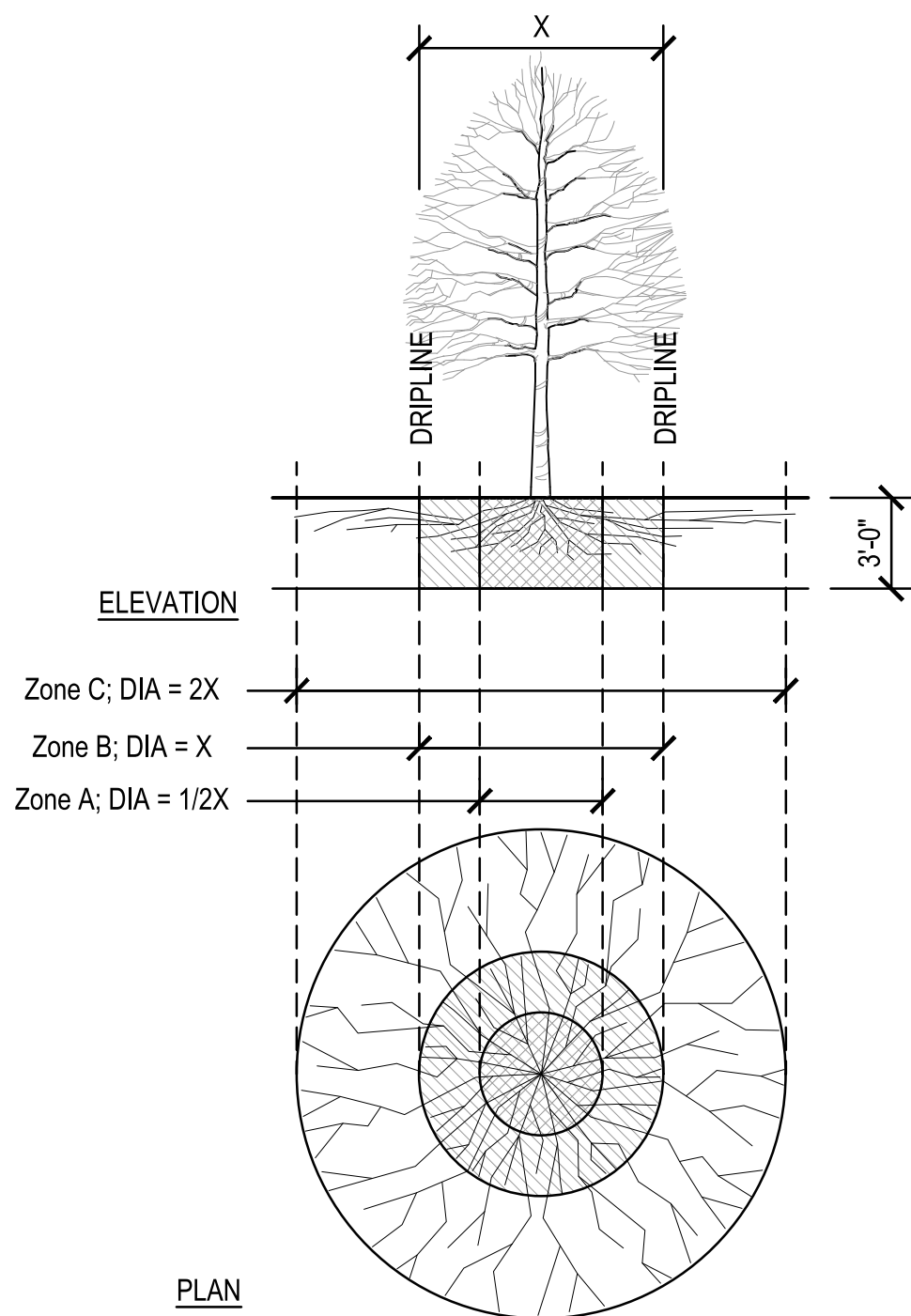
2 SHRUB PLANTING

Not to Scale



1 TREE PLANTING

Not to Scale



4 TREE PROTECTION

Not To Scale

FENCING/ROOT PROTECTION

Provide 6' high chain link fencing at Zone B (Dripline) minimum, and at Zone C (Feeder Root Zone) if possible.

Upon Landscape Architect's approval, a plywood box (8' minimum height) may be used where fencing cannot be achieved.

Landscape Architect's approval required for use/access within Zone B. Permission for use/access requires Surface Protection for all unfenced, unpaved surfaces within Zone B.

*SURFACE PROTECTION MEASURES

- Mulch Layer, 6"-8" Depth
- 3/4" Plywood
- Steel Plates

TRENCHING/EXCAVATION

ZONE A (CRITICAL ROOT ZONE)

- No disturbance allowed without site-specific inspection and approval of methods to minimize root damage.
- Severance of roots larger than 2" diameter requires Landscape Architect's approval.
- Tunneling or boring required to install utilities 3'-0" below grade or deeper.

ZONE B (DRIPLINE)

- Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
- Trenching allowed as follows:
 - Excavation by hand or with hand-driver trencher may be required.
 - Limit trench width. Do not disturb Zone A, maintain 2/3 or more of Zone B in undisturbed condition.
- Tunneling or boring may be required for trenches deeper than 3'-0".

ZONE C (FEEDER ROOT ZONE)

- Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
- Trenching with heavy equipment allowed as follows:
 - Minimize trench width.
 - Maintain 2/3 or more of Zone C in undisturbed condition.

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design. context, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract. On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1 TAC Clarifications 02/15/18
Addendum 01

ISSUE DATE 01/31/2018
DRAWN BY KP
CHECKED BY GW

DRAWING TITLE:

Planting Details

CERTIFIED BY:



DRAWING NUMBER

MS-L200

PROJECT NUMBER

17075

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MUSSETT
NICHOLAS &
ASSOCIATES



PROJECT
CONSULTANTS

422 EAST NEW YORK STREET
INDIANAPOLIS, INDIANA 46202
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WESTFIELD
MIDDLE
SCHOOL

RENOVATION & ADDITION

WESTFIELD WASHINGTON
SCHOOL CORPORATION

328 WEST MAIN STREET
WESTFIELD, INDIANA 46074

revisions:

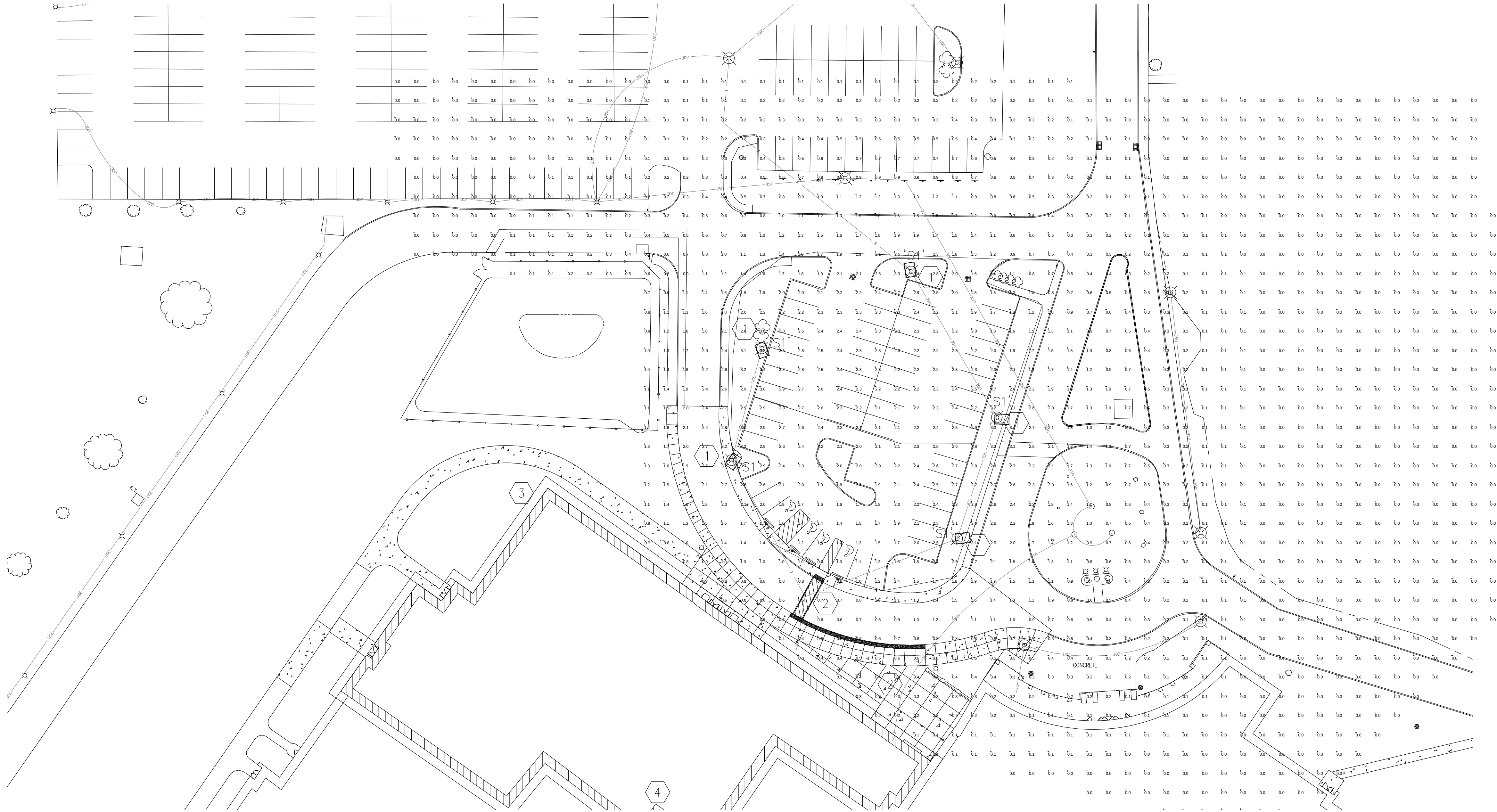
drawn: WDJ
checked: MOP
date: 3/4/04
comm. no.: 2003091

OVERALL
SITE PLAN
ELECTRICAL
E100

SITE LIGHTING FIXTURE TYPES

'S1' = 250W MH, TYPE III - 25' POLE
'S2' = 250W MH, TYPE III W/HS - 25' POLE
'S3' = 400W MH, TYPE III - 25' POLE
'S4' = 400W MH, TYPE III W/HS - 25' POLE
'S5' = 250W MH, TYPE V - 25' POLE
'S6' = 250W MH, TYPE III - 16' POLE
'S7' = NOT USED
'S8' = 100W MH, TYPE II - 12' POLE
'S9' = 100W MH, TYPE III - 12' POLE

OVERALL SITE PLAN – ELECTRICAL
1" = 50'-0"



SITE LIGHTING PHOTOMETRIC
SCALE: 1/32"=1'-0"

| Luminaire Schedule | | | | | | | |
|--------------------|-----|-------|-------------|-------------|-------|--------------------------------------|------------|
| Symbol | Qty | Label | Arrangement | Lum. Lumens | LLF | Description | Lum. Watts |
| | 5 | S1 | SINGLE | 24805 | 0.920 | DSX2 LED P2 40K T5W MVOLT / 25F POLE | 185 |

| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| CalcPts_1 | Illuminance | Fc | 0.63 | 3.8 | 0.0 | N.A. | N.A. |
| NEW CIRCLE DRIVE | Illuminance | Fc | 2.25 | 3.8 | 0.9 | 2.50 | 4.22 |

General Notes

GENERAL PLAN NOTES:

- MH: 25'-0"
- POINTS CALCULATED AT: GRADE
- LIGHT LOSS FACTOR: AS NOTED

| | | |
|-----|----------------|------|
| | | |
| No. | Revision/Issue | Date |

Firm Name and Address



Project Name and Address

WESTFIELD MIDDLE
SCHOOL

| | |
|------------------------|----------------------|
| Drawn By
KLS | Sheet
E101 |
| Date
12/22/2017 | Drawing # |
| Scale
ViewportScale | LS-17-1209 |



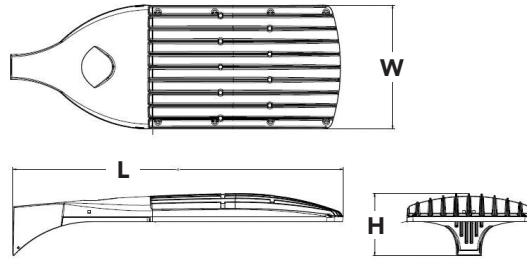
D-Series Size 2 LED Area Luminaire



d-series

Specifications

| | |
|----------------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.4 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | | | | | | | | |
|--------------------------|---|---|--------|--------------------------|---|------------------------------------|---|--|---------------------------|
| Series | LEDs | Color temperature | | Distribution | | Voltage | Mounting | | |
| DSX2 LED | Forward optics | 30K | 3000 K | T1S | Type I Short | T5VS | Type V Very Short | MVOLT ⁴ | Shipped included |
| | P1 P5 | 40K | 4000 K | T2S | Type II Short | T5S | Type V Short | 120 ⁵ | SPA Square pole mounting |
| | P2 P6 | 50K | 5000 K | T2M | Type II Medium | T5M | Type V Medium | 208 ⁵ | RPA Round pole mounting |
| | P3 P7 | AMBPC Amber phosphor converted ^{2,3} | T3S | Type III Short | T5W | Type V Wide | 240 ⁵ | WBA Wall bracket | |
| | P4 P8 | | T3M | Type III Medium | BLC | Backlight control ^{2,3} | 277 ⁵ | SPUMBA Square pole universal mounting adaptor ⁷ | |
| | Rotated optics¹ | | T4M | Type IV Medium | LCCO | Left corner cutoff ^{2,3} | 347 ^{5,6} | RPUMBA Round pole universal mounting adaptor ⁷ | |
| | P10 P13 | | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ^{2,3} | 480 ^{5,6} | Shipped separately | |
| | P11 P14 | | | | | | | KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁸ | |
| | P12 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Control options | | | | Other options | | Finish <i>(required)</i> | | | |
| Shipped installed | | | | Shipped installed | | | | | |
| PER | NEMA twist-lock receptacle only (no controls) ⁹ | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ¹³ | HS | House-side shield ¹⁷ | DDBXD | Dark bronze |
| PER5 | Five-wire receptacle only (no controls) ^{9,10} | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | SF | Single fuse (120, 277, 347V) ⁷ | DBLXD | Black |
| PER7 | Seven-wire receptacle only (no controls) ^{9,10} | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | DF | Double fuse (208, 240, 480V) ⁷ | DNAXD | Natural aluminum |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | PNMTDD3 | Part night, dim till dawn ¹⁵ | L90 | Left rotated optics ¹ | DWHXD | White |
| DS | Dual switching ^{11,12} | | | PNMT5D3 | Part night, dim 5 hrs ¹⁵ | R90 | Right rotated optics ¹ | DDBTXD | Textured dark bronze |
| PIRH | Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enable at 5fc ¹³ | | | PNMT6D3 | Part night, dim 6 hrs ¹⁵ | BS | Bird spikes | DBLBXD | Textured black |
| | | | | PNMT7D3 | Part night, dim 7 hrs ¹⁵ | | | DNATXD | Textured natural aluminum |
| | | | | FAO | Field Adjustable Output ¹⁶ | | | DWHGXD | Textured white |



Ordering Information

Accessories

Ordered and shipped separately.

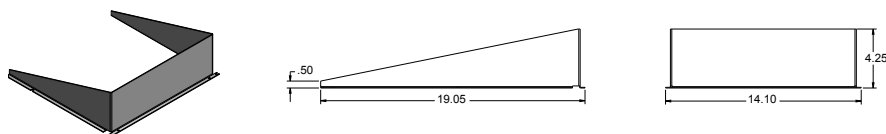
| | |
|--------------------|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) ¹⁸ |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) ¹⁸ |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) ¹⁸ |
| DSHORT SBK U | Shorting cap ¹⁸ |
| DSX2HS 80C U | House-side shield for 80 LED unit ⁴ |
| DSX2HS 90C U | House-side shield for 90 LED unit ⁴ |
| DSX2HS 100C U | House-side shield for 100 LED unit ⁴ |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) ¹⁹ |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ¹⁷ |

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

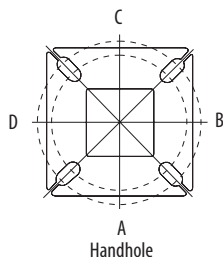
- P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or P5, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single Unit | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of heads at degree from handhole (default side A)

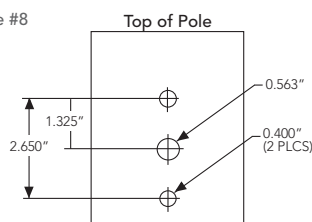
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|------------|------------|-----------------|----------------|------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" @ 90° | 4" @ 90° | 3.5" @ 90° | 3" @ 90° | 4.5" @ 120° | 4" @ 120° | 3.5" @ 120° | 3" @ 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

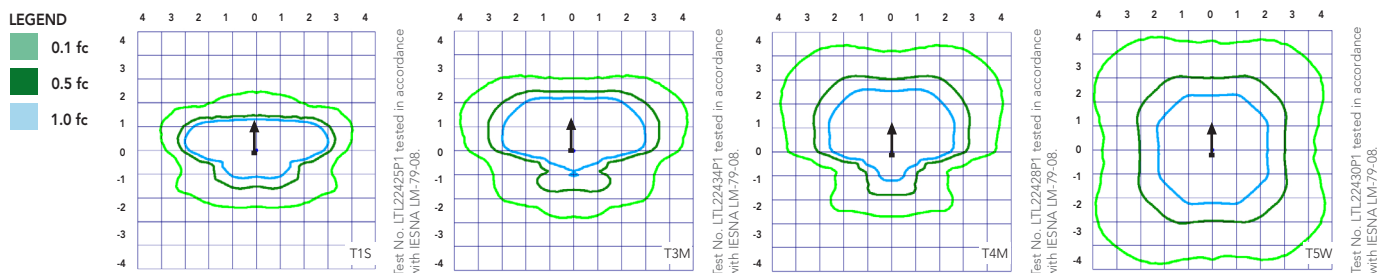
Template #8



Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 2 homepage](#).

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|-------------|-------------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

Motion Sensor Default Settings

| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
|------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

PER Table

| Control | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| | | | Wire 4/Wire5 | | Wire 4/Wire5 | Wire 6/Wire7 |
| Photocontrol Only (On/Off) | ✓ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ✗ | ✓ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ✗ | ⚠ | Wires Capped inside fixture | ⚠ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ✗ | ⚠ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ✗ | ⚠ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| |
|-----------------|
| ✓ Recommended |
| ✗ Will not work |
| ⚠ Alternate |

*Future-proof means: Ability to change controls in the future.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K
(3000 K, 70 CRI) | | | | | 40K
(4000 K, 70 CRI) | | | | | 50K
(5000 K, 70 CRI) | | | | | AMBPC
(Amber Phosphor Converted) | | | | |
|-----------|---------------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------------------|---|---|---|-----|
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13362 | 2 | 0 | 2 | 71 |
| | | | | T2S | 22,281 | 3 | 0 | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13116 | 2 | 0 | 2 | 70 |
| | | | | T2M | 22,396 | 3 | 0 | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13138 | 2 | 0 | 2 | 70 |
| | | | | T3S | 21,690 | 3 | 0 | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13110 | 2 | 0 | 2 | 70 |
| | | | | T3M | 22,342 | 3 | 0 | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13135 | 2 | 0 | 3 | 70 |
| | | | | T4M | 21,857 | 3 | 0 | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13108 | 2 | 0 | 2 | 70 |
| | | | | TFTM | 22,328 | 3 | 0 | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13349 | 2 | 0 | 2 | 71 |
| | | | | TSVS | 23,222 | 5 | 0 | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13864 | 3 | 0 | 1 | 74 |
| | | | | TSS | 23,241 | 4 | 0 | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13856 | 3 | 0 | 1 | 74 |
| | | | | TSM | 23,182 | 5 | 0 | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13790 | 3 | 0 | 2 | 73 |
| | | | | TSW | 23,030 | 5 | 0 | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13617 | 4 | 0 | 2 | 72 |
| | | | | BLC | 18,307 | 2 | 0 | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| | | | | LCCO | 13,622 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 13,622 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 | 2 | 0 | 2 | 64 |
| | | | | T2S | 30,930 | 4 | 0 | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| | | | | T2M | 31,089 | 3 | 0 | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| | | | | T3S | 30,108 | 4 | 0 | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| | | | | T3M | 31,014 | 3 | 0 | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| | | | | T4M | 30,340 | 3 | 0 | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| | | | | TFTM | 30,995 | 3 | 0 | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| | | | | TSVS | 32,235 | 5 | 0 | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| | | | | TSS | 32,261 | 5 | 0 | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| | | | | TSM | 32,180 | 5 | 0 | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| | | | | TSW | 31,969 | 5 | 0 | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| | | | | BLC | 25,412 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | |
| | | | | LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |
| | | | | | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K
(3000 K, 70 CRI) | | | | | 40K
(4000 K, 70 CRI) | | | | | 50K
(5000 K, 70 CRI) | | | | | AMBPC
(Amber Phosphor Converted) | | | | |
|-----------|---------------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------------------|---|---|---|-----|
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,222 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFTM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 | 1 | 0 | 1 | 70 |
| | | | | T2S | 37,784 | 4 | 0 | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| | | | | T2M | 37,979 | 4 | 0 | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| | | | | T3S | 36,780 | 4 | 0 | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| | | | | T3M | 37,886 | 3 | 0 | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| | | | | T4M | 37,063 | 4 | 0 | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| | | | | TFTM | 37,863 | 3 | 0 | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| | | | | TSVS | 39,379 | 5 | 0 | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| | | | | TSS | 39,411 | 5 | 0 | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| | | | | TSM | 39,311 | 5 | 0 | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| | | | | TSW | 39,053 | 5 | 0 | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| | | | | BLC | 31,043 | 3 | 0 | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| | | | | LCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 1250 | P7 | 398W | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | | | | | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFTM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | | | | | |
| | | | | T2S | 45,562 | 4 | 0 | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 45,797 | 4 | 0 | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T3S | 44,352 | 4 | 0 | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| | | | | T3M | 45,686 | 4 | 0 | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T4M | 44,693 | 4 | 0 | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| | | | | TFTM | 45,657 | 4 | 0 | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| | | | | TSVS | 47,485 | 5 | 0 | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| | | | | TSS | 47,524 | 5 | 0 | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| | | | | TSM | 47,404 | 5 | 0 | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| | | | | TSW | 47,093 | 5 | 0 | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| | | | | BLC | 37,434 | 3 | 0 | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| | | | | LCCO | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------|---|---|---|-----|-------------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K
(3000 K, 70 CRI) | | | | | 40K
(4000 K, 70 CRI) | | | | | 50K
(5000 K, 70 CRI) | | | | | AMBPC
(Amber Phosphor Converted) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFTM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 | 3 | 0 | 3 | 70 |
| | | | | T2S | 25,371 | 5 | 0 | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| | | | | T2M | 25,829 | 4 | 0 | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| | | | | T3S | 24,977 | 5 | 0 | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| | | | | T3M | 25,814 | 5 | 0 | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| | | | | T4M | 25,327 | 5 | 0 | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| | | | | TFTM | 25,981 | 5 | 0 | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| | | | | TSVS | 26,164 | 5 | 0 | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| | | | | TSS | 25,943 | 4 | 0 | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| | | | | TSM | 25,937 | 5 | 0 | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| | | | | TSW | 25,704 | 5 | 0 | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| | | | | BLC | 21,339 | 4 | 0 | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| | | | | LCCO | 15,240 | 2 | 0 | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 15,220 | 5 | 0 | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | | | | | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,278 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFTM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 4 | 129 | 33,168 | 5 | 0 | 4 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | | | | | |
| | | | | T2S | 38,545 | 5 | 0 | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| | | | | T2M | 39,241 | 5 | 0 | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T3S | 37,947 | 5 | 0 | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| | | | | T3M | 39,218 | 5 | 0 | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T4M | 38,478 | 5 | 0 | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| | | | | TFTM | 39,472 | 5 | 0 | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| | | | | TSVS | 39,749 | 5 | 0 | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| | | | | TSS | 39,415 | 5 | 0 | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| | | | | TSM | 39,405 | 5 | 0 | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| | | | | TSW | 39,052 | 5 | 0 | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| | | | | BLC | 32,419 | 5 | 0 | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| | | | | LCCO | 23,154 | 3 | 0 | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,124 | 5 | 0 | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFTM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 3 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





D-Series Size 2 LED Wall Luminaire



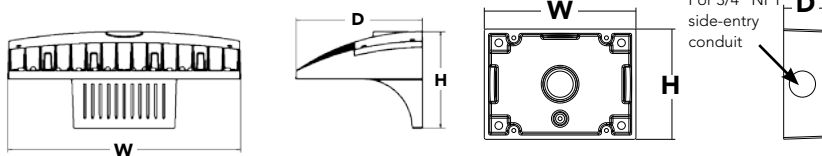
d^{series}

Specifications Luminaire

Width: 18-1/2" (47.0 cm)
Depth: 10" (25.4 cm)
Height: 7-5/8" (19.4 cm)

Back Box (BBW)

Width: 5-1/2" (14.0 cm)
Depth: 1-1/2" (3.8 cm)
Height: 4" (10.2 cm)
BBW Weight: 1 lbs (0.5 kg)



For 3/4" NPT side-entry conduit



A+ Capable options indicated by this color background.

Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL[®] controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM[®] or XPoint[™] Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

| DSXW2 LED | | | | | | | | | |
|-------------------|---|----------------------------------|----------------------------|---|---------------------------|----------------------------------|---|---------------------------|-------------------|
| Series | LEDs | Drive Current | | Color temperature | | Distribution | | Voltage | Mounting |
| DSXW2 LED | 20C 20 LEDs (two engines) | 350 | 350 mA | 30K 3000 K | T2S Type II Short | MVOLT ³ | Shipped included (blank) Surface mounting bracket | 120 ⁴ | Shipped installed |
| | | 530 | 530 mA | 40K 4000 K | T2M Type II Medium | | | | |
| | | 700 | 700 mA | 50K 5000 K | T3S Type III Short | | | | |
| | 30C 30 LEDs (three engines) | 1000 | 1000 mA ¹ (1 A) | AMBPC Amber phosphor converted ² | T3M Type III Medium | | | | |
| | | | | | T4M Type IV Medium | | | 208 ⁴ | |
| | | | | | TFTM Forward Throw Medium | | | 240 ⁴ | |
| | | | | | ASYDF Asymmetric diffuse | | | 277 ⁴ | |
| | | | | | | | | 347 ^{4,5} | |
| | | | | | | | | 480 ^{4,5} | |
| | | | | | | | BBW Surface-mounted back box (for conduit entry) | | |
| Other Options | | | | | | Finish (required) | | | |
| Shipped installed | | Shipped separately ¹³ | | DDBXD Dark bronze | | DSSXD Sandstone | | DWHGXD Textured white | |
| SF | Single fuse (120, 277, 347V) ³ | BSW | Bird-deterrent spikes | DBLXD Black | | DDBTXD Textured dark bronze | | DSSTXD Textured sandstone | |
| DF | Double fuse (208, 240, 480V) ³ | WG | Wire guard | DNAXD Natural aluminum | | DBLBXD Textured black | | | |
| HS | House-side shield ⁴ | VG | Vandal guard | DWHXD White | | DNATXD Textured natural aluminum | | | |
| SPD | Separate surge protection ¹³ | | | | | | | | |



Ordering Information

Accessories

Ordered and shipped separately.

| | |
|--------------------|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) ¹⁴ |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) ¹⁴ |
| DLL480F 1.5 CUL JU | Photocell - SSL twist-lock (480V) ¹⁴ |
| DSHORT SBK U | Shorting cap (Included when ordering PER, PER5 or PER7) ¹⁴ |
| DSXWHS U | House-side shield (one per light engine) |
| DSXWBSW U | Bird-deterrent spikes |
| DSXW2WG U | Wire guard accessory |
| DSXW2VG U | Vandal guard accessory |
| DSXW2BBW | Back box accessory |
| DOBXD U | (Specify finish) |

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- 1000mA is not available with AMBPC.
- AMBPC is not available with 1000mA.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available.
- Also available as a separate accessory; see Accessories information.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor table on page 3.
- Reference PER Table on page 3 for functionality.
- PIR and PIR1FC3V specify the [SensorSwitch SBGR-10-ODP](#) control; PIRH and PIRH1FC3V specify the [SensorSwitch SBGR-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Dimming driver standard. Not available with PER5 or PER7. Separate on/off required.
- See the electrical section on page 2 for more details.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item. See PER Table.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| LEDs | Drive Current (mA) | System Watts | Dist. Type | 30K | | | | | 40K | | | | | 50K | | | | |
|------------------|--------------------|--------------|------------|--------|---|---|---|-----|--------|---|---|---|-----|--------|---|---|---|-----|
| | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 20C
(20 LEDs) | 350 mA | 25W | T2S | 2,783 | 1 | 0 | 1 | 111 | 2,989 | 1 | 0 | 1 | 120 | 3,008 | 1 | 0 | 1 | 120 |
| | | | T2M | 2,709 | 1 | 0 | 1 | 108 | 2,908 | 1 | 0 | 1 | 116 | 2,926 | 1 | 0 | 1 | 117 |
| | | | T3S | 2,748 | 1 | 0 | 1 | 110 | 2,951 | 1 | 0 | 1 | 118 | 2,969 | 1 | 0 | 1 | 119 |
| | | | T3M | 2,793 | 1 | 0 | 1 | 112 | 2,999 | 1 | 0 | 1 | 120 | 3,018 | 1 | 0 | 1 | 121 |
| | | | T4M | 2,756 | 1 | 0 | 1 | 110 | 2,959 | 1 | 0 | 1 | 118 | 2,977 | 1 | 0 | 1 | 119 |
| | | | TFTM | 2,753 | 1 | 0 | 1 | 110 | 2,956 | 1 | 0 | 1 | 118 | 2,975 | 1 | 0 | 1 | 119 |
| | 530 mA | 36W | T2S | 4,030 | 1 | 0 | 1 | 112 | 4,327 | 1 | 0 | 1 | 120 | 4,354 | 1 | 0 | 1 | 121 |
| | | | T2M | 3,920 | 1 | 0 | 1 | 109 | 4,210 | 1 | 0 | 1 | 117 | 4,236 | 1 | 0 | 1 | 118 |
| | | | T3S | 3,978 | 1 | 0 | 1 | 111 | 4,272 | 1 | 0 | 1 | 119 | 4,299 | 1 | 0 | 1 | 119 |
| | | | T3M | 4,044 | 1 | 0 | 2 | 112 | 4,343 | 1 | 0 | 2 | 121 | 4,370 | 1 | 0 | 2 | 121 |
| | | | T4M | 3,990 | 1 | 0 | 1 | 111 | 4,284 | 1 | 0 | 1 | 119 | 4,310 | 1 | 0 | 1 | 120 |
| | | | TFTM | 3,987 | 1 | 0 | 1 | 111 | 4,281 | 1 | 0 | 1 | 119 | 4,308 | 1 | 0 | 1 | 120 |
| | 700 mA | 47W | T2S | 5,130 | 1 | 0 | 1 | 109 | 5,509 | 1 | 0 | 1 | 117 | 5,544 | 1 | 0 | 1 | 118 |
| | | | T2M | 4,991 | 1 | 0 | 2 | 106 | 5,360 | 1 | 0 | 2 | 114 | 5,393 | 1 | 0 | 2 | 115 |
| | | | T3S | 5,066 | 1 | 0 | 1 | 108 | 5,440 | 1 | 0 | 1 | 116 | 5,474 | 1 | 0 | 1 | 116 |
| | | | T3M | 5,148 | 1 | 0 | 2 | 110 | 5,529 | 1 | 0 | 2 | 118 | 5,563 | 1 | 0 | 2 | 118 |
| | | | T4M | 5,080 | 1 | 0 | 2 | 108 | 5,455 | 1 | 0 | 2 | 116 | 5,488 | 1 | 0 | 2 | 117 |
| | | | TFTM | 5,075 | 1 | 0 | 2 | 108 | 5,450 | 1 | 0 | 2 | 116 | 5,484 | 1 | 0 | 2 | 117 |
| | 1000 mA | 73W | T2S | 7,147 | 2 | 0 | 2 | 98 | 7,675 | 2 | 0 | 2 | 105 | | | | | |
| | | | T2M | 6,954 | 2 | 0 | 2 | 95 | 7,467 | 2 | 0 | 2 | 102 | | | | | |
| | | | T3S | 7,057 | 1 | 0 | 2 | 97 | 7,579 | 1 | 0 | 2 | 104 | | | | | |
| | | | T3M | 7,172 | 2 | 0 | 3 | 98 | 7,702 | 2 | 0 | 3 | 106 | | | | | |
| | | | T4M | 7,076 | 1 | 0 | 2 | 97 | 7,599 | 1 | 0 | 2 | 104 | | | | | |
| | | | TFTM | 7,071 | 1 | 0 | 2 | 97 | 7,594 | 1 | 0 | 2 | 104 | | | | | |
| 30C
(30 LEDs) | 350 mA | 36W | T2S | 4,160 | 1 | 0 | 1 | 116 | 4,467 | 1 | 0 | 1 | 124 | 4,494 | 1 | 0 | 1 | 125 |
| | | | T2M | 4,048 | 1 | 0 | 1 | 112 | 4,346 | 1 | 0 | 2 | 121 | 4,373 | 1 | 0 | 2 | 121 |
| | | | T3S | 4,108 | 1 | 0 | 1 | 114 | 4,411 | 1 | 0 | 1 | 123 | 4,438 | 1 | 0 | 1 | 123 |
| | | | T3M | 4,174 | 1 | 0 | 2 | 116 | 4,483 | 1 | 0 | 2 | 125 | 4,510 | 1 | 0 | 2 | 125 |
| | | | T4M | 4,119 | 1 | 0 | 1 | 114 | 4,423 | 1 | 0 | 2 | 123 | 4,450 | 1 | 0 | 2 | 124 |
| | | | TFTM | 4,115 | 1 | 0 | 1 | 114 | 4,419 | 1 | 0 | 1 | 123 | 4,446 | 1 | 0 | 1 | 124 |
| | 530 mA | 54W | T2S | 6,001 | 1 | 0 | 1 | 111 | 6,444 | 1 | 0 | 1 | 119 | 6,484 | 1 | 0 | 1 | 120 |
| | | | T2M | 5,838 | 1 | 0 | 2 | 108 | 6,270 | 2 | 0 | 2 | 116 | 6,308 | 2 | 0 | 2 | 117 |
| | | | T3S | 5,926 | 1 | 0 | 2 | 110 | 6,364 | 1 | 0 | 2 | 118 | 6,403 | 1 | 0 | 2 | 119 |
| | | | T3M | 6,023 | 1 | 0 | 2 | 112 | 6,467 | 1 | 0 | 2 | 120 | 6,507 | 1 | 0 | 2 | 121 |
| | | | T4M | 5,942 | 1 | 0 | 2 | 110 | 6,380 | 1 | 0 | 2 | 118 | 6,420 | 1 | 0 | 2 | 119 |
| | | | TFTM | 5,937 | 1 | 0 | 2 | 110 | 6,376 | 1 | 0 | 2 | 118 | 6,415 | 1 | 0 | 2 | 119 |
| | 700 mA | 71W | T2S | 7,403 | 2 | 0 | 2 | 104 | 8,170 | 2 | 0 | 2 | 115 | 8,221 | 2 | 0 | 2 | 116 |
| | | | T2M | 7,609 | 2 | 0 | 2 | 107 | 7,949 | 2 | 0 | 2 | 112 | 7,998 | 2 | 0 | 2 | 113 |
| | | | T3S | 7,513 | 1 | 0 | 2 | 106 | 8,068 | 1 | 0 | 2 | 114 | 8,118 | 1 | 0 | 2 | 114 |
| | | | T3M | 7,635 | 2 | 0 | 3 | 108 | 8,199 | 2 | 0 | 3 | 115 | 8,250 | 2 | 0 | 3 | 116 |
| | | | T4M | 7,534 | 1 | 0 | 2 | 106 | 8,089 | 1 | 0 | 2 | 114 | 8,140 | 1 | 0 | 2 | 115 |
| | | | TFTM | 7,527 | 1 | 0 | 2 | 106 | 8,082 | 2 | 0 | 2 | 114 | 8,134 | 2 | 0 | 2 | 115 |
| | 1000 mA | 109W | T2S | 10,468 | 2 | 0 | 2 | 96 | 11,241 | 2 | 0 | 2 | 103 | | | | | |
| | | | T2M | 10,184 | 2 | 0 | 3 | 93 | 10,936 | 2 | 0 | 3 | 100 | | | | | |
| | | | T3S | 10,335 | 2 | 0 | 2 | 95 | 11,099 | 2 | 0 | 2 | 102 | | | | | |
| | | | T3M | 10,505 | 2 | 0 | 3 | 96 | 11,280 | 2 | 0 | 3 | 103 | | | | | |
| | | | T4M | 10,365 | 2 | 0 | 2 | 95 | 11,129 | 2 | 0 | 2 | 102 | | | | | |
| | | | TFTM | 10,356 | 2 | 0 | 2 | 95 | 11,121 | 2 | 0 | 3 | 102 | | | | | |

Note:

Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97+% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|-------------|-------------|------------------|
| 0°C | 32°F | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 1.00 |
| 40°C | 104°F | 0.98 |

Electrical Load

| LEDs | Drive Current (mA) | System Watts | Current (A) | | | | | |
|------|--------------------|--------------|-------------|------|------|------|------|------|
| | | | 120V | 208V | 240V | 277V | 347V | 480V |
| 20C | 350 | 25 W | 0.23 | 0.13 | 0.12 | 0.10 | - | - |
| | 530 | 36 W | 0.33 | 0.19 | 0.17 | 0.14 | - | - |
| | 700 | 47 W | 0.44 | 0.25 | 0.22 | 0.19 | - | - |
| | 1000 | 74 W | 0.68 | 0.39 | 0.34 | 0.29 | - | - |
| 30C | 350 | 36 W | 0.33 | 0.19 | 0.17 | 0.14 | - | - |
| | 530 | 54 W | 0.50 | 0.29 | 0.25 | 0.22 | - | - |
| | 700 | 71 W | 0.66 | 0.38 | 0.33 | 0.28 | 0.23 | 0.16 |
| | 1000 | 109 W | 1.01 | 0.58 | 0.50 | 0.44 | - | - |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW2 LED 30C 1000** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|-----|--------|--------|---------|
| Lumen Maintenance Factor | 1.0 | 0.95 | 0.92 | 0.87 |

Motion Sensor Default Settings

| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
|-----------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| *PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer

PER Table

| Control | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | | |
|----------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| | | | Wire 4/Wire5 | | Wire 4/Wire5 | Wire 6/Wire7 |
| Photocontrol Only (On/Off) | ✓ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊘ | ✓ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion | ⊘ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof* | ⊘ | ⚠ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Futureproof* with Motion | ⊘ | ⚠ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |

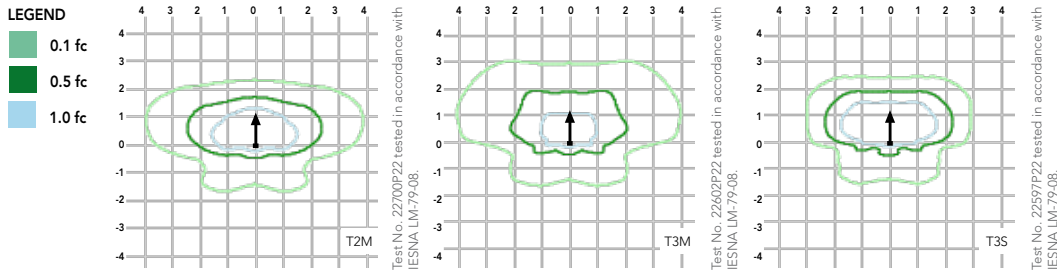
✓ Recommended

⊘ Will not work

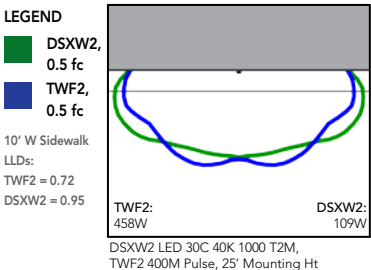
⚠ Alternate

*Futureproof means: Ability to change controls in the future.

Isofootcandle plots for the DSXW2 LED 30C 1000 40K. Distances are in units of mounting height (25').



Distribution overlay comparison to 400W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 2 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

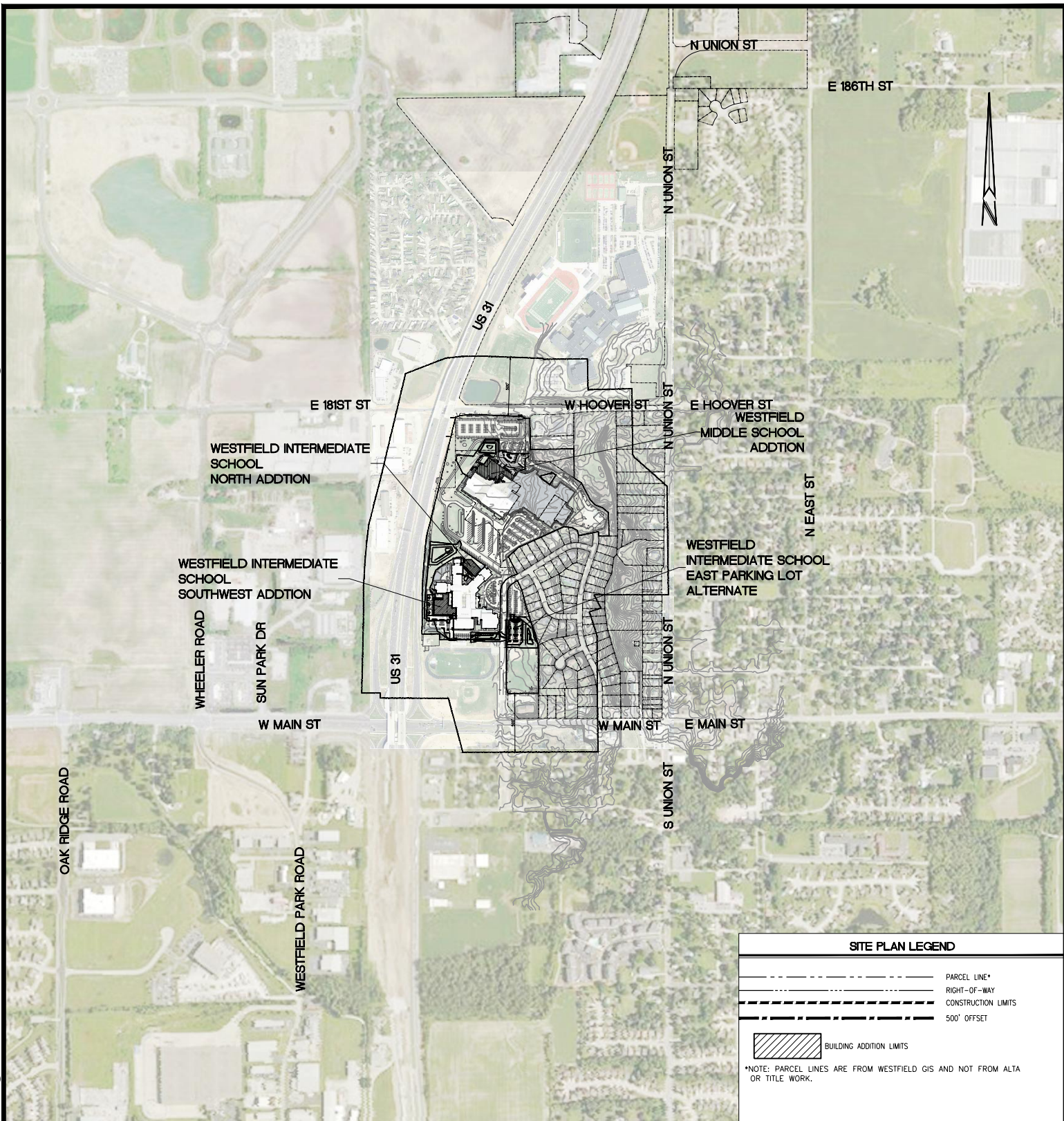
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

U:\2004\040338\20401\cda\enr\exhibits-middie\2017-12-14 VICINITY MAP\2017-12-27 awg, December 21, 2017 1:44 PM, JACLYN ALDIS



TITLE: VICINITY MAP
WESTFIELD MIDDLE SCHOOL ADDITIONS AND RENOVATIONS AND
WESTFIELD INTERMEDIATE SCHOOL ADDITIONS AND RENOVATIONS

Date:
12-27-17
SCALE:
N/A
PROJECT NO:
040338-20401



3939 PRIORITY WAY SOUTH DRIVE, SUITE 200
INDIANAPOLIS, INDIANA 46240
(317) 844-6777 FAX (317) 706-6451
E-Mail cripe@cripe.biz

- ARCHITECTURE + INTERIORS
- CIVIL ENGINEERING
- SURVEY + 3D LASER SCANNING
- ENERGY + FACILITIES
- EQUIPMENT PLANNING
- REAL ESTATE SERVICES

OWNER:

WESTFIELD WASHINGTON
SCHOOLS
1143 E. 181ST ST
WESTFIELD, IN 46074

ARCHITECT:

CSO ARCHITECTS
8831 KEYSTONE CROSSING
INDIANAPOLIS, IN 46240

ENGINEER:



Solutions by Design Since 1937

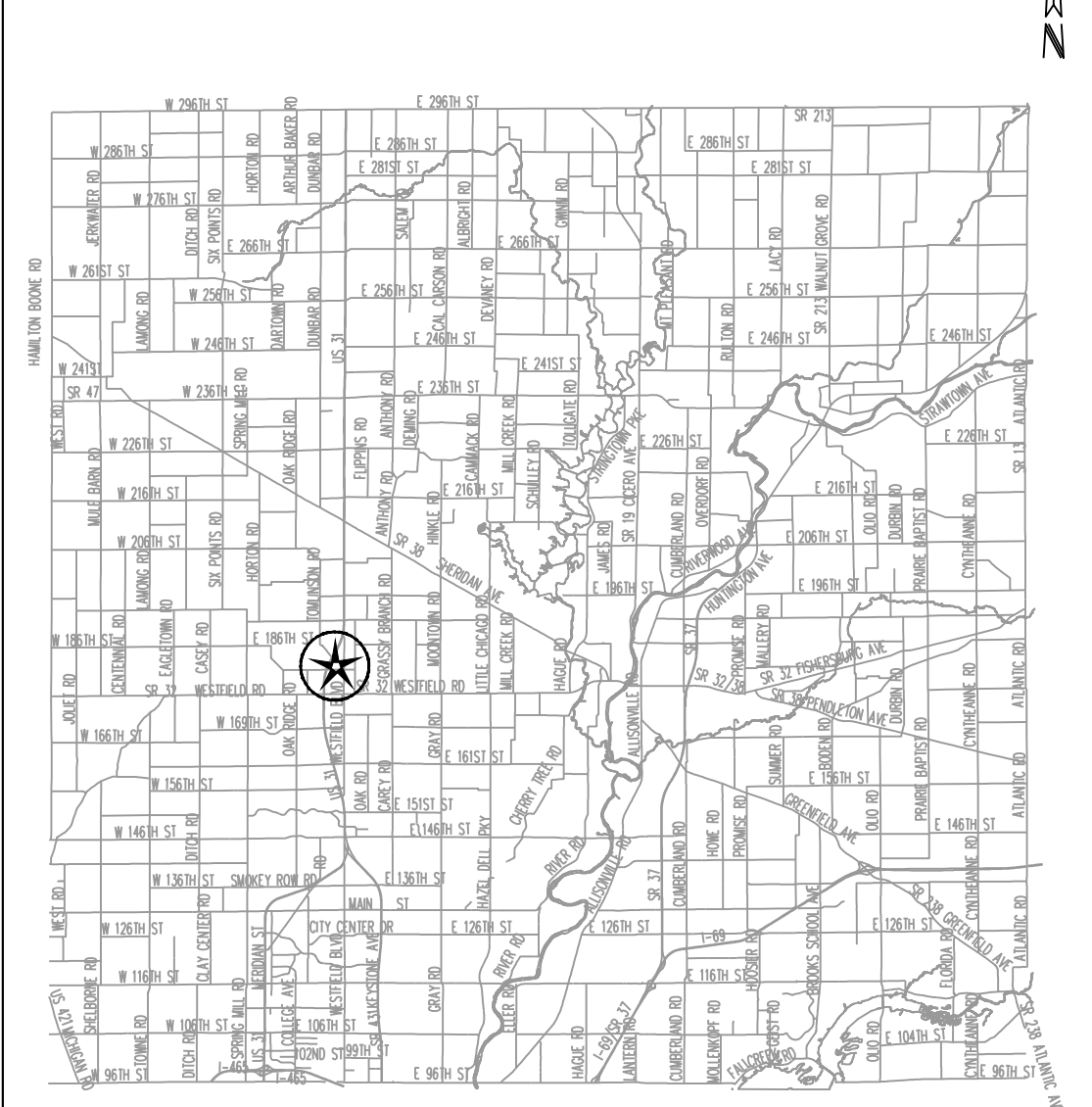
3939 PRIORITY WAY SOUTH DRIVE, SUITE 200
INDIANAPOLIS, INDIANA 46240
(317) 844-6777 FAX (317) 706-6451

LOCATION MAP:



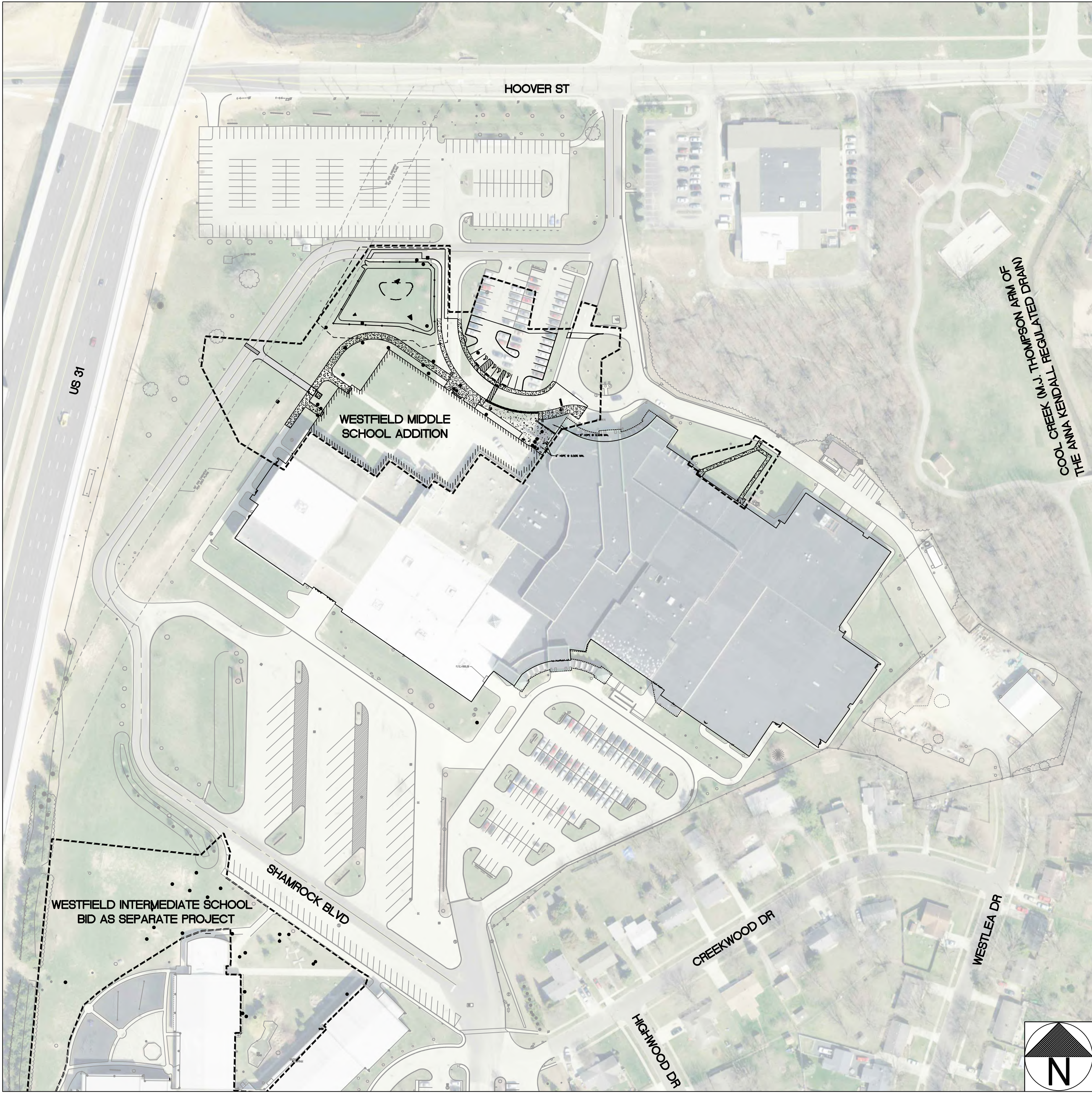
VICINITY MAP:

HAMILTON COUNTY



★ = SITE

CONSTRUCTION PLANS FOR ADDITIONS AND RENOVATIONS TO WESTFIELD MIDDLE SCHOOL



ALL CONTRACTORS SHALL REVIEW CITY OF WESTFIELD STANDARDS AND SPECIFICATIONS PRIOR TO BIDDING ON THIS PROJECT. ADDITIONAL SPECIFICATIONS, NOT INCLUDED IN THIS SET OF PLANS, MAY BE REQUIRED: [HTTP://WWW.WESTFIELD.IN.GOV/EGOV/APPS/DOCUMENT/CENTER.EGOV?VIEW=ITEM;ID=50](http://www.westfield.in.gov/egov/apps/document/center.egov?view=item;id=50)

THE PRESENCE OF A CITY OF WESTFIELD REVIEW AND ACCEPTANCE STAMP ON PLANS DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER FROM COMPLIANCE OF THE "CITY OF WESTFIELD CONSTRUCTION STANDARDS, LATEST EDITION". THIS REVIEW ONLY DESIGNATES THAT THE GENERAL CONFORMANCE WITH DESIGN AND SPECIFICATIONS HAVE BEEN MET. FIELD CHANGES MAY BECOME NECESSARY IN ORDER TO COMPLY WITH THE DETAILED CITY OF WESTFIELD SPECIFICATIONS.

EQUIVALENT RUNOFF UNIT (ERU) CALCULATIONS ARE REQUIRED FOR COMMERCIAL PROJECTS. (TOTAL IMPERVIOUS SURFACE) WWS-MS-ERU = 5.40 (18,897 SQ FT)

PROJECT DATA:

| | |
|-------------------------|--|
| PROJECT ADDRESS | 346 W HOOVER ST
WESTFIELD, IN 46074 |
| PROJECT AREA | 3.09 AC |
| BUILDING AREA: | |
| EXISTING BUILDING AREA | 266,766 SQ FT |
| ADDITION AREA | 34,325 SQ FT |
| TOTAL | 301,091 SQ FT |
| PARKING | |
| REMOVED PARKING SPACES | 11 |
| REPLACED PARKING SPACES | 18 |

SHEET INDEX:

| SHEET | DESCRIPTION |
|-------------|---|
| MS-CS | COVER SHEET |
| MS-C101-102 | EXISTING CONDITIONS & DEMOLITION PLAN |
| MS-200 | OVERALL DEVELOPMENT PLAN |
| MS-C201-202 | DEVELOPMENT PLAN |
| MS-C203 | DEVELOPMENT PLAN DETAILS |
| MS-C301-302 | GRADING PLAN |
| MS-C401-402 | STORMWATER POLLUTION PREVENTION PLAN |
| MS-C403 | STORMWATER POLLUTION PREVENTION DETAILS |
| MS-C404 | STORMWATER POLLUTION PREVENTION NOTES |
| MS-C501-502 | UTILITY PLAN |
| MS-503 | UTILITY DETAILS |
| MS-C701 | STORM PLAN AND PROFILE |
| MS-C702-703 | STORM DETAILS |
| MS-C801 | SANITARY PLAN AND PROFILES |
| MS-C802 | SANITARY DETAILS |
| MS-A301 | OVERALL BUILDING ELEVATIONS |
| MS-A302-303 | PARTIAL BUILDING ELEVATIONS |
| MS-L100 | PLANTING PLAN |
| MS-L200 | PLANTING DETAILS |
| MS-ED100 | OVERALL SITE PLAN - ELECTRICAL DEMOLITION |
| MS-E100 | OVERALL SITE PLAN - ELECTRICAL |

BENCHMARKS:

REFERENCE BENCHMARK - B 112 - US COAST AND GEODETIC SURVEY DISK 1 MILE EAST OF EAGLETOWN ROAD IN EAGLETOWN. SET IN TO POF A CONCRETE POST 24 FEET NORTH OF THE CENTERLINE OF SR 32 AND 3.8 FEET EAST OF WOOD CORNER POST
ELEV = 924.24 (NAVD 1988 DATUM)

PROJECT BENCHMARK #1 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL ON THE WEST SIDE OF THE DROP OFF DRIVE 130 FEET NORTH OF THE BUILDING
ELEV = 901.03 (NAVD 1988 DATUM)

PROJECT BENCHMARK #2 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL IN AN ISLAND IN THE EAST SIDE OF THE SOUTH PARKING LOT
ELEV = 895.88 (NAVD 1988 DATUM)

PROJECT BENCHMARK #3 - CUT BOX IN LIGHT POLE BASE LOCATED BETWEEN THE WESTFIELD MIDDLE AND INTERMEDIATE SCHOOLS IN THE SOUTHWEST MOST ISLAND IN THE PARKING LOT BETWEEN THE SCHOOLS
ELEV = 901.65 (NAVD 1988 DATUM)

PROJECT BENCHMARK #4 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD INTERMEDIATE SCHOOL ON THE WEST SIDE OF THE DRIVE ON THE EAST SIDE OF THE SCHOOL, 34 FEET SOUTH OF THE DROP OFF DRIVE
ELEV = 899.08 (NAVD 1988 DATUM)

AGENCY & UTILITY INFO:

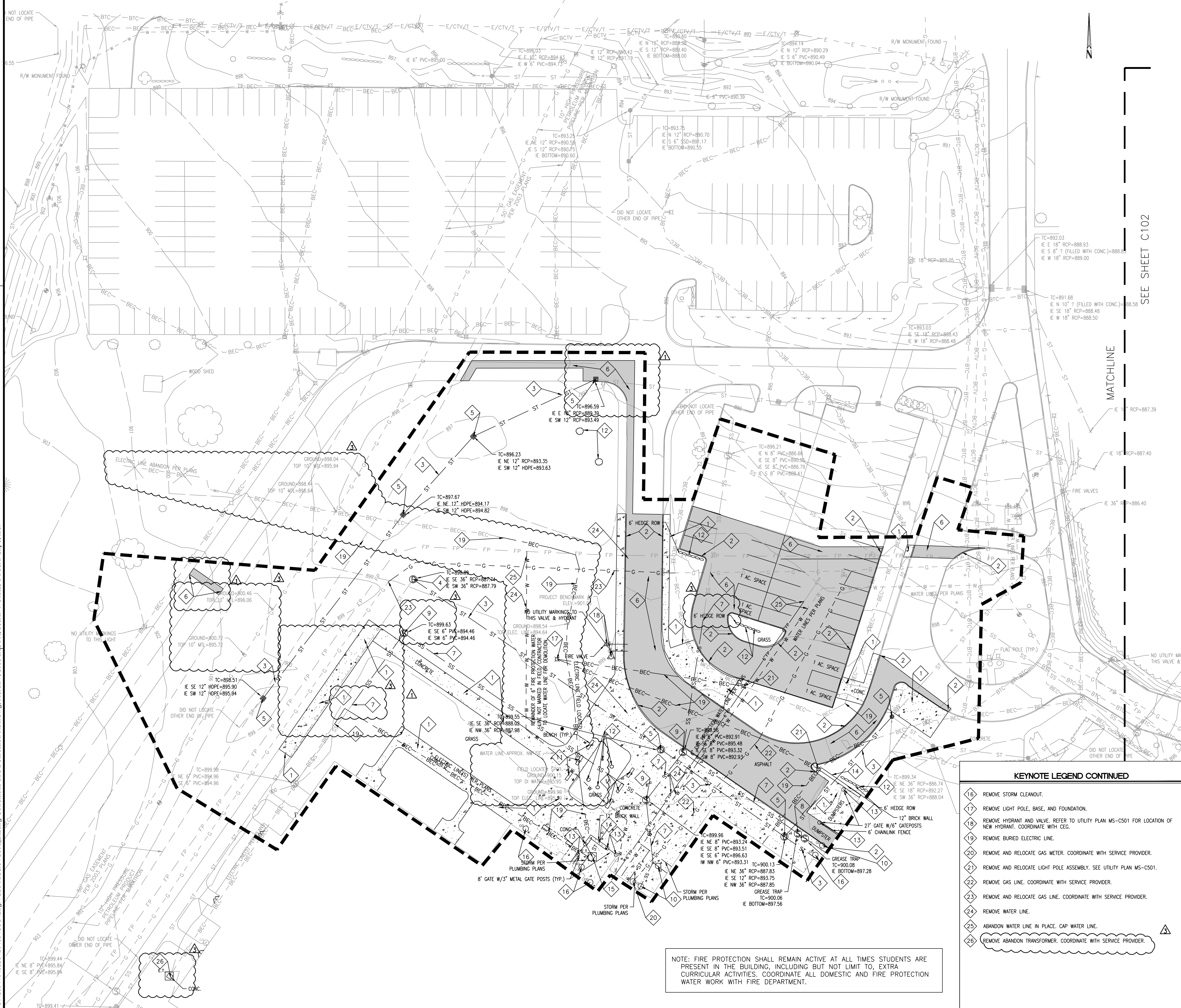
| AGENCY/UTILITY | PHONE NUMBER |
|--|--------------|
| CITY OF WESTFIELD | 317-804-3000 |
| WESTFIELD ECONOMIC AND COMMUNITY DEVELOPMENT DEPT. | 317-804-3170 |
| WESTFIELD PUBLIC WORKS DEPARTMENT | 317-804-3100 |
| WESTFIELD FIRE DEPARTMENT | 317-804-3307 |
| HAMILTON COUNTY SURVEYORS OFFICE | 317-776-8495 |
| ELECTRIC - DUKE ENERGY | 317-776-5331 |
| CABLE - COMCAST | 317-275-6493 |
| GAS, WATER, & SEWER - CITIZENS WESTFIELD | 317-263-6442 |
| FRONTIER COMMUNICATION | 317-984-9010 |

CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CRIFE TEAM:

| | | |
|------------------------|-----------------------------|--------------|
| PROJECT MANAGER | JENNIFER LASCH, PE, LEED AP | 317-706-6346 |
| PROJECT ENGINEER | BOB GAFFER, PE | 317-706-6343 |
| PROJECT SURVEYOR | PAUL KLODZEN, PS, EI | 317-706-6382 |
| CIVIL DESIGN ASSOCIATE | ELAINE IVY, EI | 317-706-6308 |
| CIVIL DESIGN ASSOCIATE | SUSAN NORRIS, EI | 317-706-6347 |
| QUALITY ASSURANCE | JENNIFER LASCH, PE, LEED AP | 317-706-6346 |



NOTE: FIRE PROTECTION SHALL REMAIN ACTIVE AT ALL TIMES STUDENTS ARE PRESENT IN THE BUILDING, INCLUDING BUT NOT LIMIT TO, EXTRA CURRICULAR ACTIVITIES. COORDINATE ALL DOMESTIC AND FIRE PROTECTION WATER WORK WITH FIRE DEPARTMENT.

KEYNOTE LEGEND CONTINUED

- 16 REMOVE STORM CLEANOUT.
- 17 REMOVE LIGHT POLE, BASE, AND FOUNDATION.
- 18 REMOVE HYDRANT AND VALVE. REFER TO UTILITY PLAN MS-C501 FOR LOCATION OF NEW HYDRANT. COORDINATE WITH CEC.
- 19 REMOVE BURIED ELECTRIC LINE.
- 20 REMOVE AND RELOCATE GAS METER. COORDINATE WITH SERVICE PROVIDER.
- 21 REMOVE AND RELOCATE LIGHT POLE ASSEMBLY. SEE UTILITY PLAN MS-C501.
- 22 REMOVE GAS LINE. COORDINATE WITH SERVICE PROVIDER.
- 23 REMOVE AND RELOCATE GAS LINE. COORDINATE WITH SERVICE PROVIDER.
- 24 REMOVE WATER LINE.
- 25 ABANDON WATER LINE IN PLACE. CAP WATER LINE.
- 26 REMOVE ABANDON TRANSFORMER. COORDINATE WITH SERVICE PROVIDER.

KEYNOTE LEGEND

- 1 SAWCUT AND REMOVE CONCRETE SIDEWALK TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
- 2 CONCRETE CURB TO BE SAW CUT AND REMOVED.
- 3 REMOVE STORM PIPE.
- 4 PLUG HOLE IN STORM STRUCTURE. SEAL HOLE WITH GROUT. ADJUST CASTING TO GRADE.
- 5 REMOVE STORM STRUCTURE.
- 6 SAW CUT AND REMOVE EXISTING ASPHALT AND GRANULAR SUBBASE.
- 7 REMOVE SANITARY PIPE.
- 8 REMOVE GREASE TRAP.
- 9 REMOVE SANITARY STRUCTURE.
- 10 REMOVE SANITARY CLEANOUT.
- 11 REMOVE CONCRETE BENCH.
- 12 REMOVE TREE, SHRUBS, UNDERBRUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS.
- 13 REMOVE GATE, GATEPOSTS, AND CHAINLINK FENCE.
- 14 REMOVE WALL.
- 15 ELECTRIC TRANSFORMER TO BE RELOCATED BY UTILITY. COORDINATE WITH PROVIDER.

EXISTING FEATURES LEGEND

- SS - SANITARY SEWER & MANHOLE
- ST - STORM SEWER, END SECTION, INLET & M.H.
- G - GAS LINE
- W - WATER LINE
- E - ELECTRIC LINE (AERIAL)
- T - TELEPHONE LINE (AERIAL)
- CTV - CABLE TELEVISION (AERIAL)
- BTC - BURIED TELE. CABLE
- BEC - BURIED ELEC. CABLE
- BCTV - BURIED CABLE TV
- I - GUARDRAIL
- D. - DEED DIMENSION
- M. - MEASURED DIMENSION
- P. - PLAT DIMENSION
- R. - RADIUS
- L. - ARC LENGTH
- H.H. - HANDHOLE
- FND. - FOUND
- CONC. - CONCRETE
- ASPH. - ASPHALT
- TC - TOP OF CASTING ELEVATION
- IE - INVERT ELEVATION
- FFE - FINISH FLOOR ELEVATION
- TBM - TEMPORARY BENCHMARK
- SS - POWER POLE
- GW - GUY WIRE
- UT - UTILITY RISER, TELEPHONE, ELECTRIC & CABLE TV
- ET - ELECTRIC TRANSFORMER
- ACU - AIR CONDITIONER UNIT
- SL - STREET LIGHT
- LP - LIGHT POLE
- FL - FLOOD LIGHT
- TM - TRAFFIC MANHOLE AND SIGNAL POLE
- FH - FIRE HYDRANT
- GV - VALVE: GAS & WATER
- SS - STREET SIGN
- WT - WATER, TELEPHONE AND ELECTRIC MANHOLE
- SC - SEWER CLEANOUT
- EG - ELECTRIC, GAS AND WATER METER
- PM - PIPELINE MARKER POST
- MB - MAILBOX
- GP - GUARD POST
- SH - SPRINKLER HEAD
- IC - IRRIGATION CONTROL BOX
- SP - SPOT GRADE
- TC - TOP CURB/CUTTER GRADE
- MW - MONITORING WELL
- FS - FIRE SERVICE STAND PIPE
- GV - GAS VENT PIPE
- ST - SEPTIC TANK LID
- WC - WELL CAP
- AR - AIR RELIEF VALVE
- UT - UNDERGROUND TANK FILLER PIPE
- SA - SITE ADDRESS
- DENOTES A 5/8" DIA. REBAR WITH YELLOW PLASTIC CAP SET. CAP STAMPED "CRIFE FIRM NO. 0055" UNLESS OTHERWISE NOTED.
- DENOTES A MAG NAIL WITH WASHER SET. WASHER STAMPED "CRIFE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

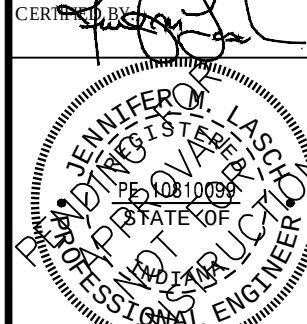
DEMOLITION PLAN LEGEND

- EXISTING ASPHALT TO BE SAWCUT AND REMOVED FROM SITE
- EXISTING CONCRETE TO BE SAWCUT AND REMOVED FROM SITE
- CONSTRUCTION LIMITS
- CONSTRUCTION FENCING-CONTRACTOR TO COORDINATE LOCATION WITH OWNER PRIOR TO CONSTRUCTION
- TP - TREE PRESERVATION

DEMOLITION PLAN NOTES:

- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER SHEET MS-C401 THRU MS-C403 PRIOR TO COMMENCING DEMOLITION.
- MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
- SAW CUT EXISTING CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
- THE CONCRETE PROPOSED TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
- REMOVAL OR RELOCATION OF ALL EXISTING LANDSCAPING MUST BE COORDINATED WITH OWNER.
- EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
- EXISTING WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

EXISTING CONDITIONS AND DEMOLITION PLAN
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
345 W HOOVER STREET, WESTFIELD, IN 46074

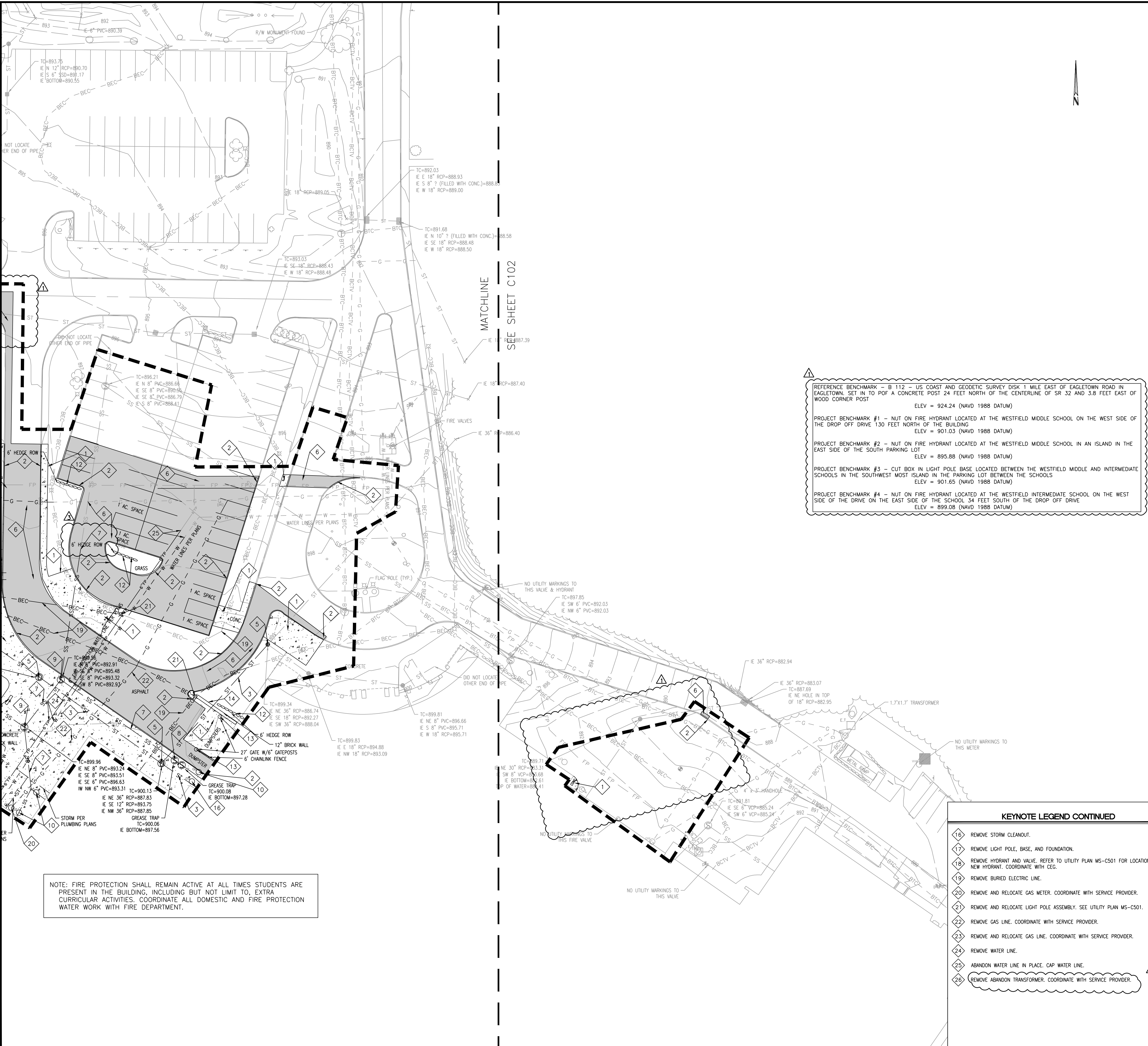


Date: 12-29-17
Drawing: MS-C101
Checked By: JML
Quality Assurance: JML
Scale: 0" = 30'
Sheet: MS-C101
Date: 12-29-17
Project Number: 040338-20401

3939 PRIORITY WAY SOUTH DRIVE, SUITE 200
INDIANAPOLIS, INDIANA 46240
(317) 844-6777 FAX (317) 706-6451
E-Mail: cripe@crife.biz



| Revision | Date | Description |
|----------|----------|-----------------------------|
| 1 | 12-29-17 | TAC COMMENTS AND ADDENDUM 1 |
| 2 | 12-29-17 | TAC COMMENTS AND ADDENDUM 2 |
| 3 | 12-29-17 | TAC COMMENTS AND ADDENDUM 3 |
| 4 | 12-29-17 | TAC COMMENTS AND ADDENDUM 4 |



NOTE: FIRE PROTECTION SHALL REMAIN ACTIVE AT ALL TIMES STUDENTS ARE PRESENT IN THE BUILDING, INCLUDING BUT NOT LIMIT TO, EXTRA CURRICULAR ACTIVITIES. COORDINATE ALL DOMESTIC AND FIRE PROTECTION WATER WORK WITH FIRE DEPARTMENT.

REFERENCE BENCHMARK - B 112 - US COAST AND GEODETIC SURVEY DISK 1 MILE EAST OF EAGLETOWN ROAD IN EAGLETOWN, SET IN TO POF A CONCRETE POST 24 FEET NORTH OF THE CENTERLINE OF SR 32 AND 3.8 FEET EAST OF WOOD CORNER POST
ELEV = 924.24 (NAVD 1988 DATUM)

PROJECT BENCHMARK #1 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL ON THE WEST SIDE OF THE DROP OFF DRIVE 130 FEET NORTH OF THE BUILDING
ELEV = 901.03 (NAVD 1988 DATUM)

PROJECT BENCHMARK #2 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL IN AN ISLAND IN THE EAST SIDE OF THE SOUTH PARKING LOT
ELEV = 895.88 (NAVD 1988 DATUM)

PROJECT BENCHMARK #3 - CUT BOX IN LIGHT POLE BASE LOCATED BETWEEN THE WESTFIELD MIDDLE AND INTERMEDIATE SCHOOLS IN THE SOUTHWEST MOST ISLAND IN THE PARKING LOT BETWEEN THE SCHOOLS
ELEV = 901.65 (NAVD 1988 DATUM)

PROJECT BENCHMARK #4 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD INTERMEDIATE SCHOOL ON THE WEST SIDE OF THE DRIVE ON THE EAST SIDE OF THE SCHOOL 34 FEET SOUTH OF THE DROP OFF DRIVE
ELEV = 899.08 (NAVD 1988 DATUM)

- KEYNOTE LEGEND CONTINUED**
- 16 REMOVE STORM CLEANOUT.
 - 17 REMOVE LIGHT POLE, BASE, AND FOUNDATION.
 - 18 REMOVE HYDRANT AND VALVE. REFER TO UTILITY PLAN MS-C501 FOR LOCATION OF NEW HYDRANT. COORDINATE WITH CEC.
 - 19 REMOVE BURIED ELECTRIC LINE.
 - 20 REMOVE AND RELOCATE GAS METER. COORDINATE WITH SERVICE PROVIDER.
 - 21 REMOVE AND RELOCATE LIGHT POLE ASSEMBLY. SEE UTILITY PLAN MS-C501.
 - 22 REMOVE GAS LINE. COORDINATE WITH SERVICE PROVIDER.
 - 23 REMOVE AND RELOCATE GAS LINE. COORDINATE WITH SERVICE PROVIDER.
 - 24 REMOVE WATER LINE.
 - 25 ABANDON WATER LINE IN PLACE. CAP WATER LINE.
 - 26 REMOVE ABANDON TRANSFORMER. COORDINATE WITH SERVICE PROVIDER.

EXISTING FEATURES LEGEND

| | |
|---|---|
| SS - SANITARY SEWER & MANHOLE | POWER POLE |
| ST - STORM SEWER, END SECTION, INLET & M.H. | GUY WIRE |
| G - GAS LINE | UTILITY RISER, TELEPHONE, ELECTRIC & CABLE TV |
| W - WATER LINE | ELECTRIC TRANSFORMER |
| E - ELECTRIC LINE (AERIAL) | AIR CONDITIONER UNIT |
| T - TELEPHONE LINE (AERIAL) | STREET LIGHT |
| CTV - CABLE TELEVISION (AERIAL) | LIGHT POLE |
| BTC - BURIED TELE. CABLE | FLOOD LIGHT |
| BEC - BURIED ELEC. CABLE | TRAFFIC MANHOLE AND SIGNAL POLE |
| F - FENCE LINE (FNC) | FIRE HYDRANT |
| BCTV - BURIED CABLE TV | VALVE; GAS & WATER |
| GUARDRAIL | STREET SIGN |
| RIGHT OF WAY LINE (R/W) | WATER, TELEPHONE AND ELECTRIC MANHOLE |
| PROPERTY LINE | SEWER CLEANOUT |
| EASEMENT LINE | ELECTRIC, GAS AND WATER METER |
| CENTER LINE | PIPELINE MARKER POST |
| SWALE LINE | MAILBOX |

D. DEED DIMENSION
M. MEASURED DIMENSION
P. PLAT DIMENSION
R. RADIUS
L. ARC LENGTH
H.H. HANDHOLE
FND. FOUND
CONC. CONCRETE
ASPH. ASPHALT
TC TOP OF CASTING ELEVATION
IE INVERT ELEVATION
FFE FINISH FLOOR ELEVATION
TBM TEMPORARY BENCHMARK

● DENOTES A 5/8" DIA. REBAR WITH YELLOW PLASTIC CAP SET. CAP STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.
○ DENOTES A MAG NAIL WITH WASHER SET. WASHER STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

123 SITE ADDRESS

DEMOLITION PLAN LEGEND

EXISTING ASPHALT TO BE SAWCUT AND REMOVED FROM SITE
EXISTING CONCRETE TO BE SAWCUT AND REMOVED FROM SITE
CONSTRUCTION LIMITS
CONSTRUCTION FENCING-CONTRACTOR TO COORDINATE LOCATION WITH OWNER PRIOR TO CONSTRUCTION
TP TREE PRESERVATION

DEMOLITION PLAN NOTES:

- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER SHEET MS-C401 THRU MS-C403 PRIOR TO COMMENCING DEMOLITION.
- MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
- SAW CUT EXISTING CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
- THE CONCRETE PROPOSED TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
- REMOVAL OR RELOCATION OF ALL EXISTING LANDSCAPING MUST BE COORDINATED WITH OWNER.
- EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
- EXISTING WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

KEYNOTE LEGEND

| |
|---|
| 1 SAWCUT AND REMOVE CONCRETE SIDEWALK TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN. |
| 2 CONCRETE CURB TO BE SAW CUT AND REMOVED. |
| 3 REMOVE STORM PIPE. |
| 4 PLUG HOLE IN STORM STRUCTURE. SEAL HOLE WITH GROUT. ADJUST CASTING TO GRADE. |
| 5 REMOVE STORM STRUCTURE. |
| 6 SAW CUT AND REMOVE EXISTING ASPHALT AND GRANULAR SUBBASE. |
| 7 REMOVE SANITARY PIPE. |
| 8 REMOVE GREASE TRAP. |
| 9 REMOVE SANITARY STRUCTURE. |
| 10 REMOVE SANITARY CLEANOUT. |
| 11 REMOVE CONCRETE BENCH. |
| 12 REMOVE TREE, SHRUBS, UNDERBRUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS. |
| 13 REMOVE GATE, GATEPOSTS, AND CHAINLINK FENCE. |
| 14 REMOVE WALL. |
| 15 ELECTRIC TRANSFORMER TO BE RELOCATED BY UTILITY. COORDINATE WITH PROVIDER. |

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(317) 844-6777 FAX (317) 706-6451
E-Mail cripe@cripe.biz

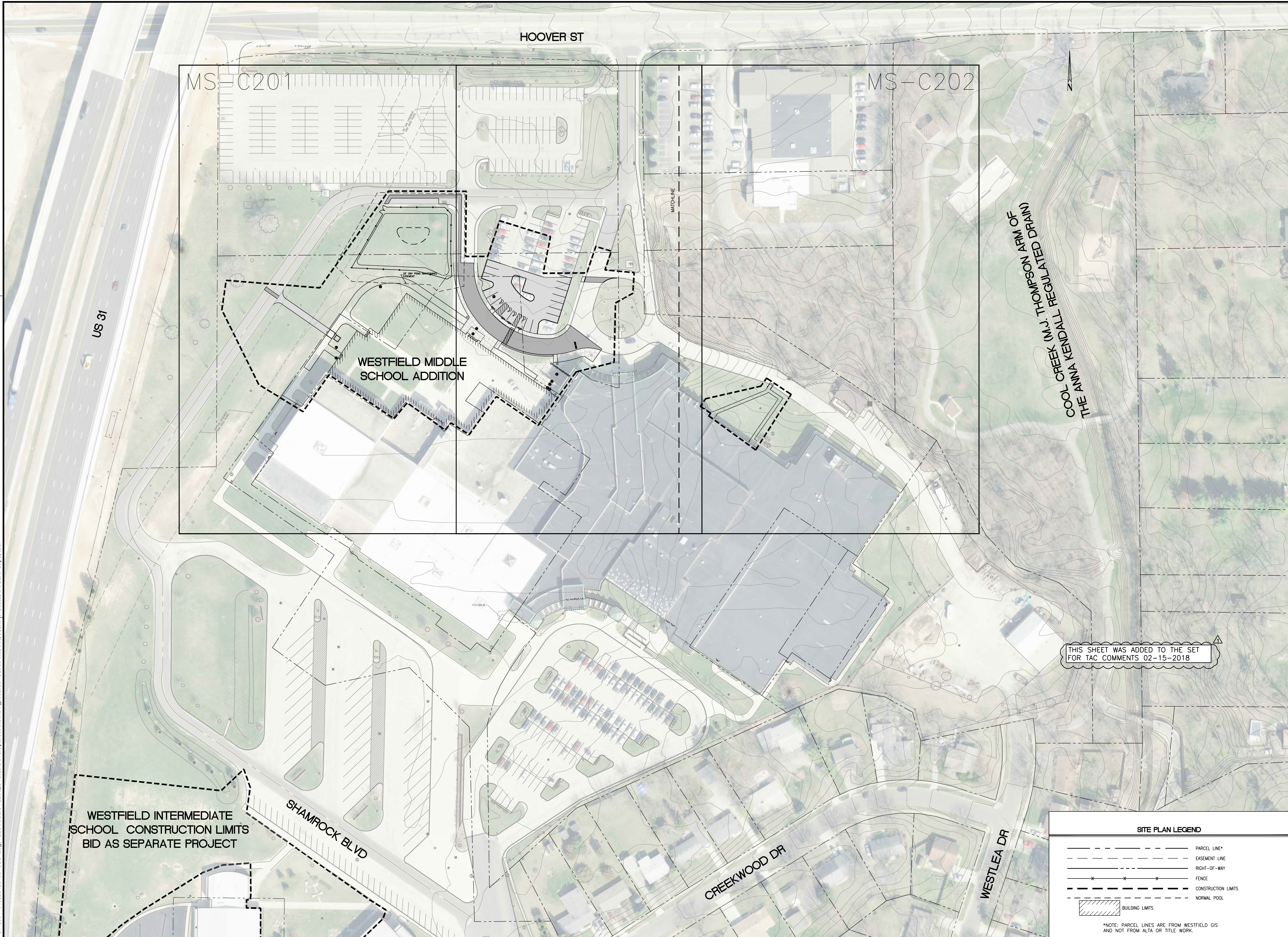
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EXISTING CONDITIONS AND DEMOLITION PLAN
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOLS
345 W HOOVER STREET, WESTFIELD, IN 46074

DATE: 12-29-17
COVERING: EXISTING CONDITIONS AND DEMOLITION PLAN DESIGN
INDIANA 811
1-800-382-5544
CALL 811 BEFORE YOU DIG

MS-C102
DATE: 12-29-17
PROJECT NUMBER: 040338-20401

O:\2004\040338\20401\cadd\Engn\CDs-Middle\C200-Overall Development Plan.dwg, March 7, 2018 1:13 PM,SUSAN NORRIS, © Paul J. Cripe, Inc.



| Revisions | |
|------------|-----------------------------------|
| No. | Description |
| 02-15-2018 | TAC COMMENTS AND ADDENDUM 1 |
| 02-20-2018 | TAC COMMENTS AND ADDENDUM 2 |
| 03-06-2018 | FINAL TAC COMMENTS AND ADDENDUM 4 |

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OVERALL DEVELOPMENT PLAN
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOLS
345 W HOOVER STREET, WESTFIELD, IN 46074

CER:
Date: 12-29-17
COVERING
OVERALL SITE DEVELOPMENT
PLAN DESIGN

Date: 12-29-17
Scale: 0' = 60'

Indiana
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Drawn By: **SPN**
Checked By: **RJC**
Quality Assurance: **JML**
Scale: 0' = 60'

Sheet
MS-C200
Date: 12-29-17
Project Number: 040338-20401

O:\2004\040338\20401\cadd\Engn\CDs-Middle\C201_Site Plan.dwg, March 7, 2018 1:30 PM, SUSAN NORRIS, © Paul J. Cripe, Inc.



MATCHLINE
SEE SHEET C202

DEVELOPMENT PLAN LEGEND

- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- FENCE
- CONSTRUCTION LIMITS
- NORMAL POOL
- BUILDING LIMITS

SITE WORK GENERAL NOTES AND SPECIFICATIONS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, OR VERIFYING, THAT ALL PERMITS AND APPROVALS ARE OBTAINED FROM THE RESPECTIVE CITY, COUNTY AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
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- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND CONTRACTOR TO MAINTAIN QUALITY CONTROL THROUGHOUT THE PROJECT; FAILURE TO DO SO MAY RESULT IN REMOVAL AND REPLACEMENT OF THE DEFECTIVE WORK. IT IS RECOMMENDED THAT THE DEVELOPER HAVE A QUALIFIED INSPECTOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- THE SITE IS LOCATED OUTSIDE OF "FLOODWAY LIMITS" AND "100 YEAR FLOOD LIMITS".

DEVELOPMENT PLAN NOTES

- ALL RADII AND STREET DIMENSIONS SHALL BE MEASURED TO BACK OF CURB OR FACE OF INTEGRAL CURB AND WALK. ALL DIMENSIONS TO THE BUILDING ARE TO THE OUTSIDE OF BUILDING FOUNDATION WALL.
- ALL PAVEMENT AND/OR CURB RADII TO BE FIVE (5) FOOT UNLESS OTHERWISE NOTED.
- BEARINGS, DIMENSIONS AND EASEMENTS ARE SHOWN FOR REFERENCE ONLY. SEE RECORD SURVEYS AND PLATS FOR EXACT INFORMATION.
- ALL PARKING STALLS SHALL BE 9' X 20' WHERE ADJACENT TO SIDEWALK OR GRASS AREA UNLESS OTHERWISE NOTED. WHERE INTEGRAL CURB AND WALK IS ADJACENT TO A PARKING STALL, TWO (2) FEET OF SIDEWALK SHALL BE UTILIZED AS PARKING AREA OVERHANG. PARKING STALLS ARE DIMENSIONED TO THE FACE OF CURBS.
- ALL PARKING AREAS TO BE CURB OR COMBINED WALK AND CURB AS SHOWN.
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KEYNOTE LEGEND

- 1 LIGHT DUTY ASPHALT PAVEMENT SECTION
- 2 HEAVY DUTY ASPHALT PAVEMENT SECTION
- 3 CONCRETE PAVING
- 4 TRANSFORMER PAD
- 5 CONCRETE SIDEWALK (LIMITS ILLUSTRATED MAY BE DIFFERENT AT SAWCUT LOCATIONS DUE TO EXISTING JOINT LOCATIONS AND DEMOLITIONS). DOWEL NEW WALK TO EXISTING WALK.
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- 17 DRY DETENTION TOP OF BANK
- 18 DUMPSTER LOCATION
- 19 MASONRY SCREEN WALL. SEE ARCHITECTURAL PLANS.
- 20 PROTECTIVE POST.
- 21 FORM SIDEWALK OUTSIDE OF GAS METER AND PROTECTIVE POSTS

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DEVELOPMENT PLAN
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOLS
345 W HOOVER STREET, WESTFIELD, IN 46074

CERTIFIED
Professional Engineer
12-29-17
COVERING
DEVELOPMENT PLAN
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Indiana 811
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Checked By: RLG
Quality Assurance: JML
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MS-C201
Date: 12-29-17
Project Number: 040338-20401

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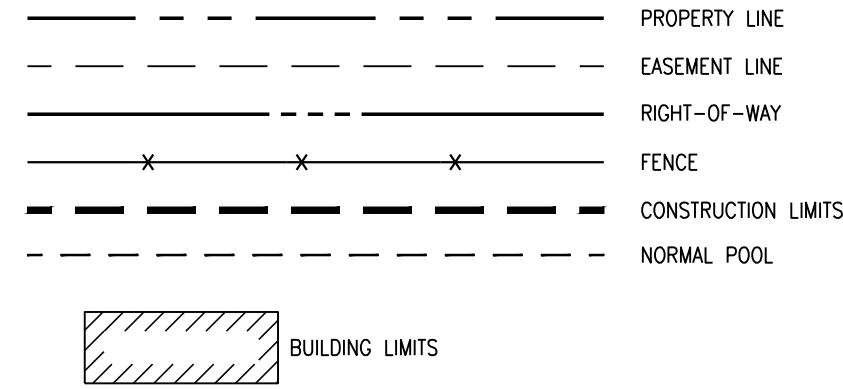
MULTI STORY SCHOOL BUILDING

MATCHLINE

SEE SHEET C201



DEVELOPMENT PLAN LEGEND



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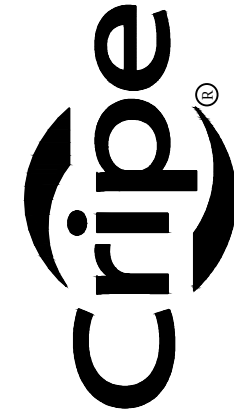
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KEYNOTE LEGEND

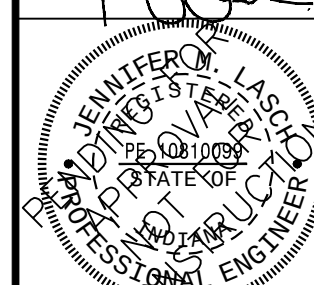
- | | | |
|----|---|--|
| 1 | LIGHT DUTY ASPHALT PAVEMENT SECTION | |
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| 20 | PROTECTIVE POST. | |
| 21 | FORM SIDEWALK OUTSIDE OF GAS METER AND PROTECTIVE POSTS | |

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DEVELOPMENT PLAN
WESTFIELD MIDDLE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOLS
345 W HOOVER STREET, WESTFIELD, IN 46074

CERTIFIED



Date: 12-29-17

COVERING
DEVELOPMENT PLAN
DESIGN



1-800-382-5544

Drawn By: RLG

Checked By: RLG

Quality Assurance: JML

Scale: 0 30'

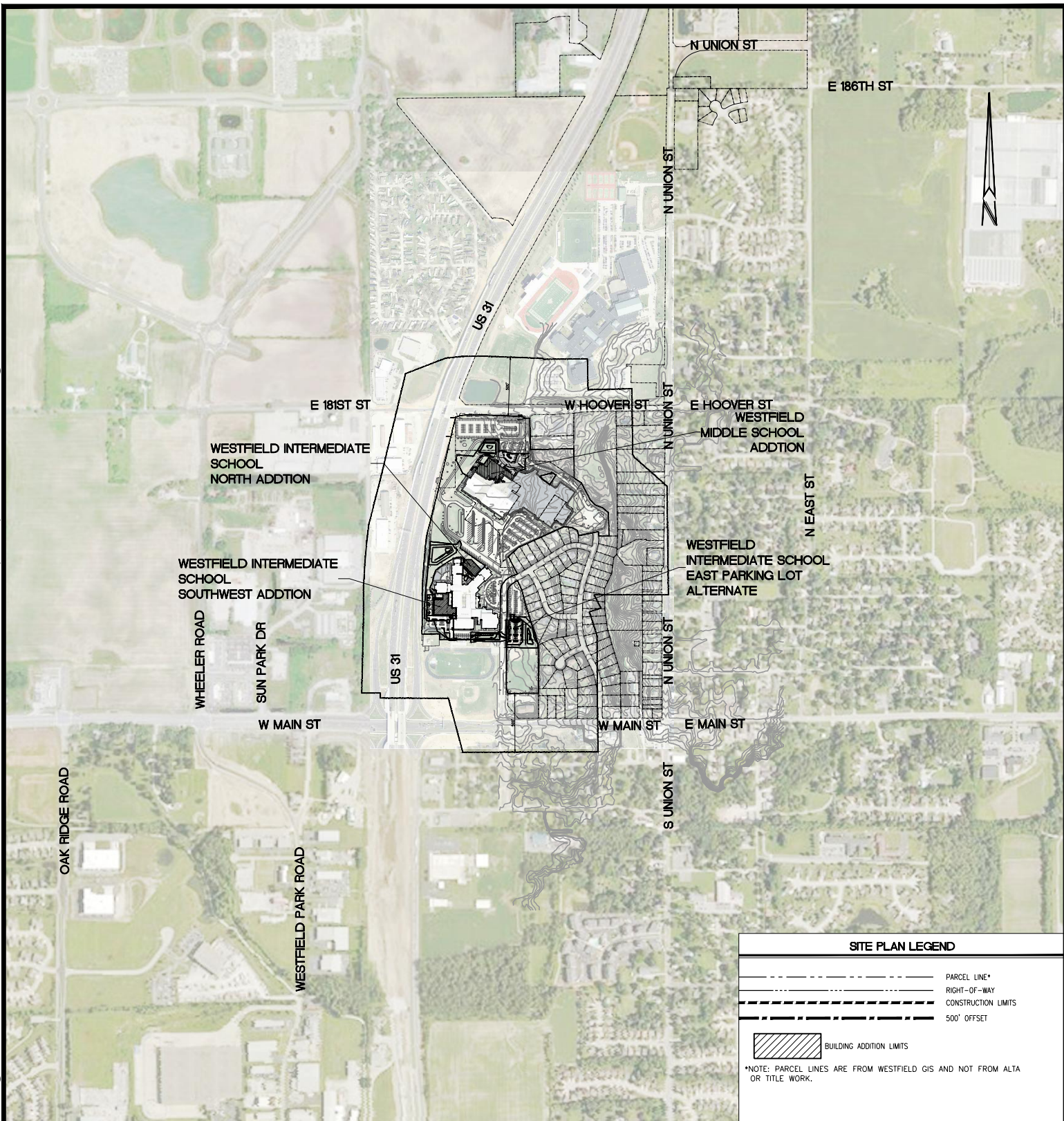
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MS-C202

Date: 12-29-17

Project Number: 040338-20401

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TITLE: VICINITY MAP
WESTFIELD MIDDLE SCHOOL ADDITIONS AND RENOVATIONS AND
WESTFIELD INTERMEDIATE SCHOOL ADDITIONS AND RENOVATIONS

Date:
12-27-17
SCALE:
N/A
PROJECT NO:
040338-20401



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- EQUIPMENT PLANNING
- REAL ESTATE SERVICES

OWNER:

WESTFIELD WASHINGTON
SCHOOLS
1143 E. 181ST ST
WESTFIELD, IN 46074

ARCHITECTS:

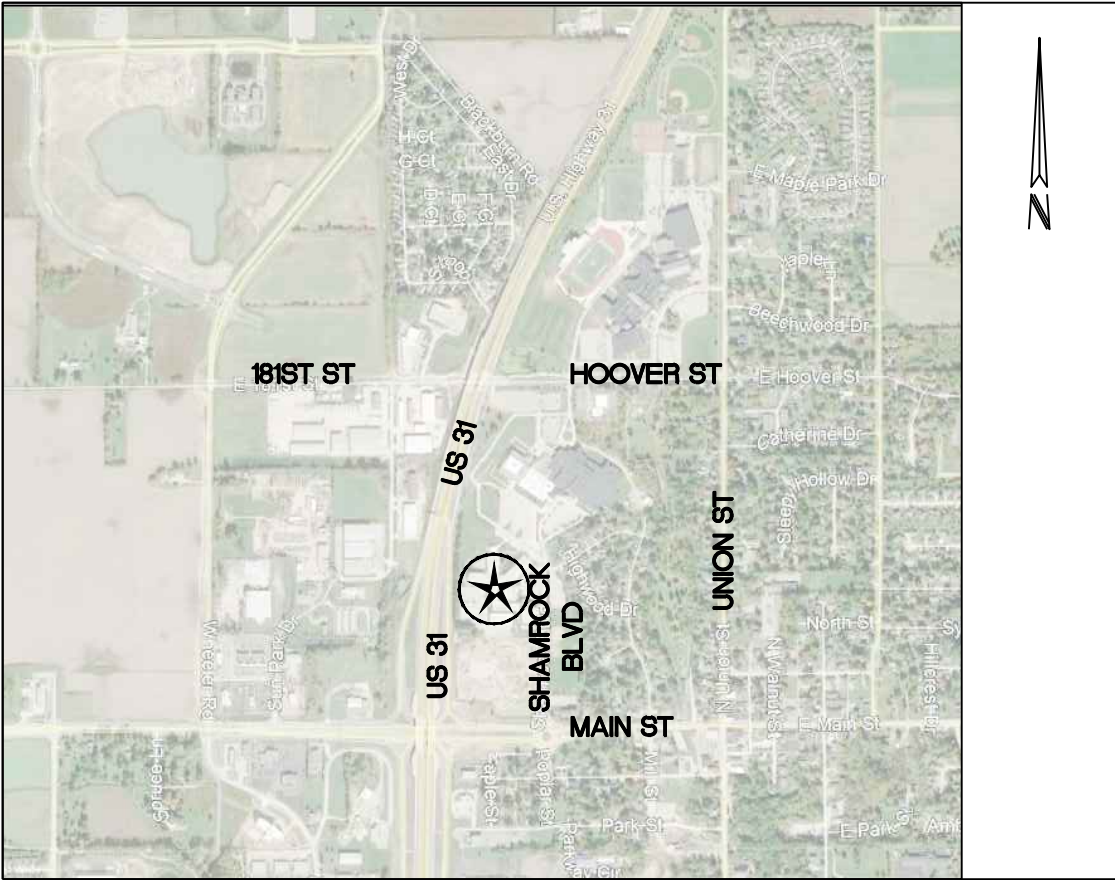
CSO ARCHITECTS
8831 KEYSTONE CROSSING
INDIANAPOLIS, IN 46240

ENGINEER:

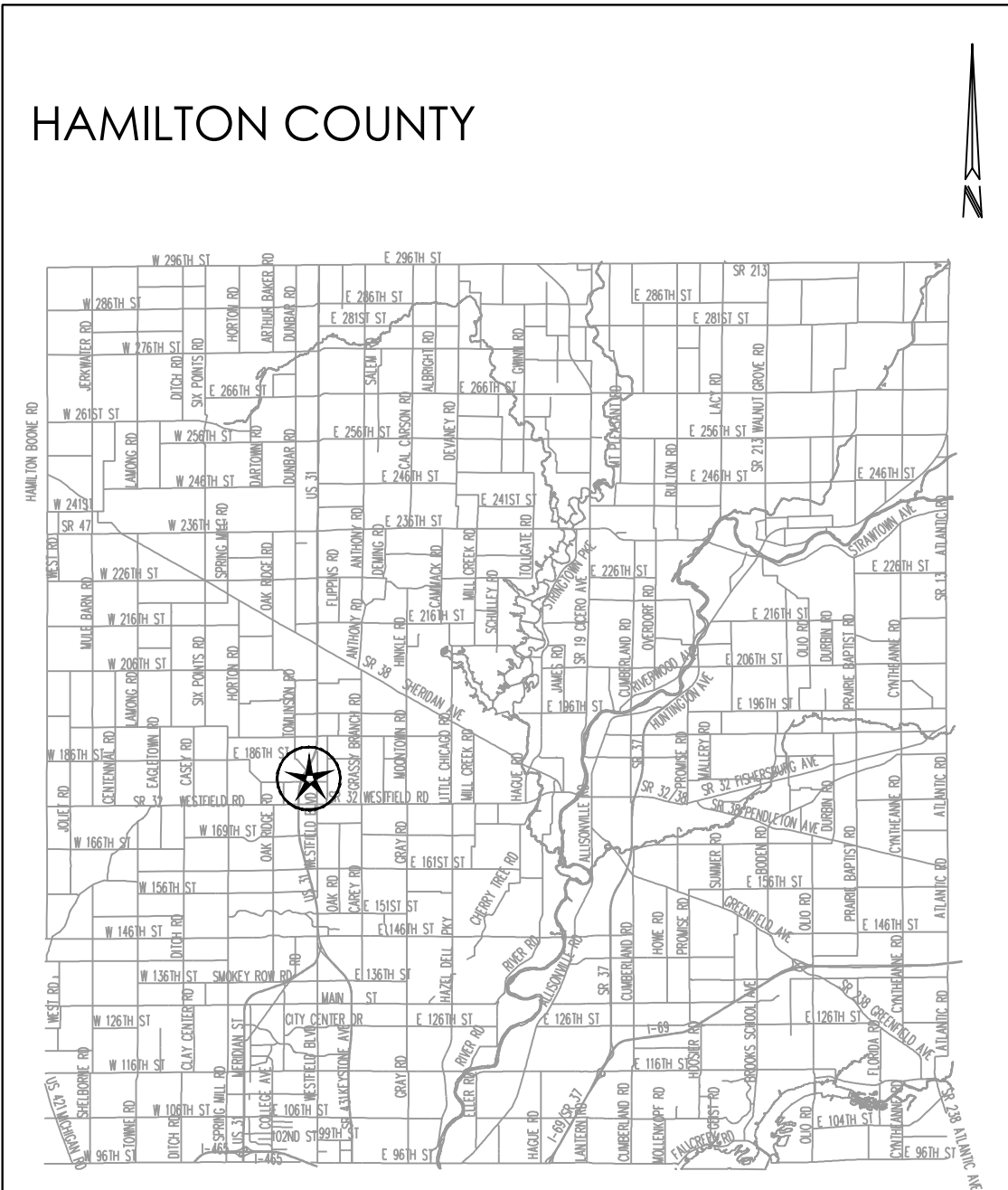


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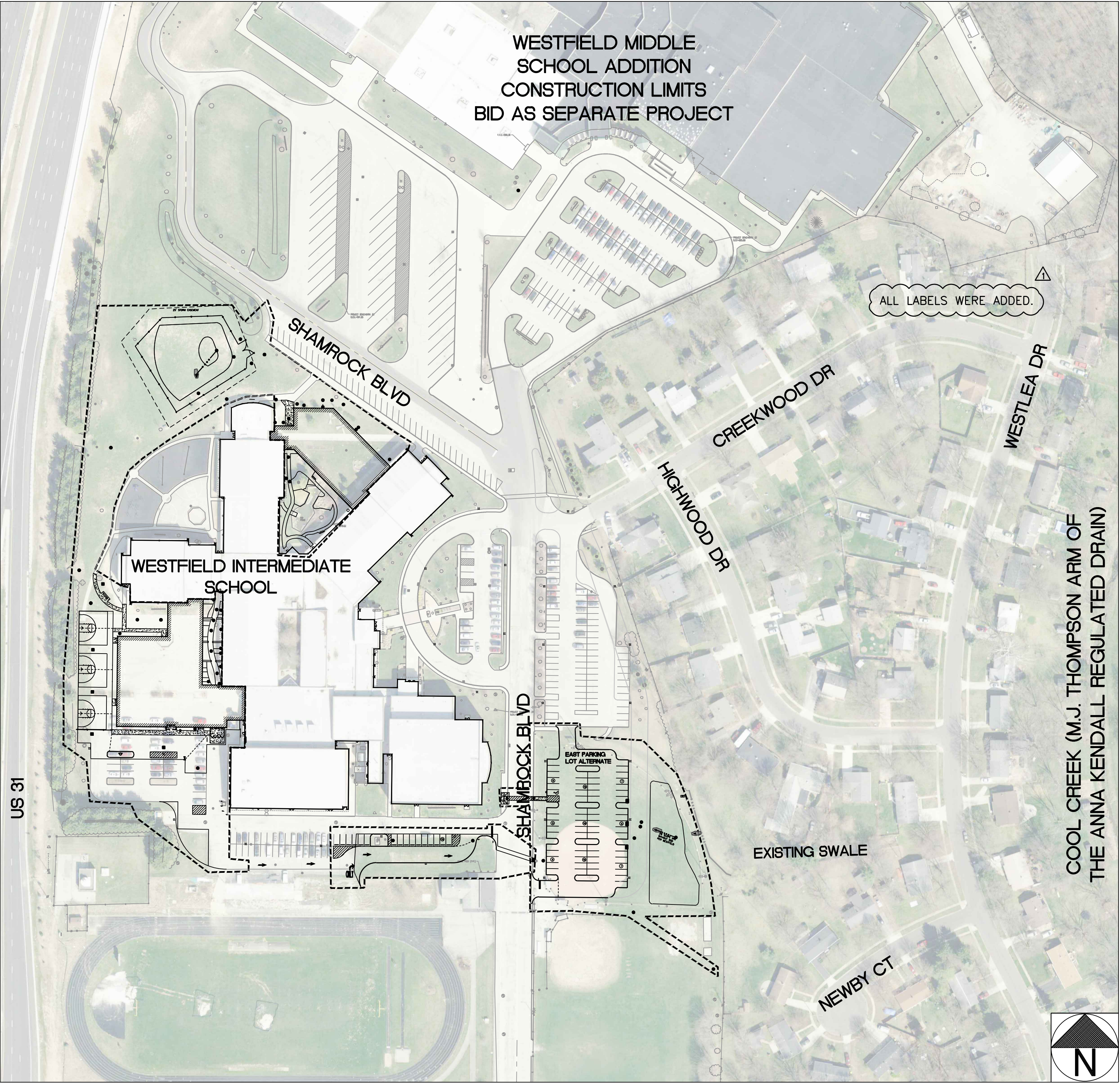


VICINITY MAP:



★ = SITE

CONSTRUCTION PLANS FOR ADDITIONS AND RENOVATIONS TO WESTFIELD INTERMEDIATE SCHOOL



ALL CONTRACTORS SHALL REVIEW CITY OF WESTFIELD STANDARDS AND SPECIFICATIONS PRIOR TO BIDDING ON THIS PROJECT. ADDITIONAL SPECIFICATIONS, NOT INCLUDED IN THIS SET OF PLANS, MAY BE REQUIRED: [HTTP://WWW.WESTFIELD.IN.GOV/EGOV/APPS/DOCUMENT/CENTER.EGOV?VIEW=ITEM;ID=50](http://www.westfield.in.gov/EGOV/APPS/DOCUMENT/CENTER.EGOV?VIEW=ITEM;ID=50)

THE PRESENCE OF A CITY OF WESTFIELD REVIEW AND ACCEPTANCE STAMP ON PLANS DOES NOT RELIEVE THE CONTRACTOR OR DEVELOPER FROM COMPLIANCE OF THE "CITY OF WESTFIELD CONSTRUCTION STANDARDS, LATEST EDITION". THIS REVIEW ONLY DESIGNATES THAT THE GENERAL CONFORMANCE WITH DESIGN AND SPECIFICATIONS HAVE BEEN MET. FIELD CHANGES MAY BECOME NECESSARY IN ORDER TO COMPLY WITH THE DETAILED CITY OF WESTFIELD SPECIFICATIONS.

EQUIVALENT RUNOFF UNIT (ERU) CALCULATIONS ARE REQUIRED FOR COMMERCIAL PROJECTS. (ADDITIONAL IMPERVIOUS SURFACE THIS PROJECT)

ADDITIONAL ERU = 6.75 (23,619 SQ FT)
ALTERNATE ERU = 7.17 (25,114 SQ FT)
TOTAL ERU = 13.92 (48,733 SQ FT)

PROJECT DATA:

| | |
|------------------------------|--------------------------------------|
| PROJECT ADDRESS | 326 W MAIN ST
WESTFIELD, IN 46074 |
| PROJECT AREA: | |
| ADDITIONS AND RENOVATIONS | 4.34 AC |
| EAST PARKING LOT ALTERNATIVE | 1.48 AC |
| TOTAL PROJECT AREA | 5.82 AC |
| BUILDING AREA: | |
| EXISTING BUILDING AREA | 185,734 SQ FT |
| NORTH ADDITION AREA | 13,071 SQ FT |
| SOUTHWEST ADDITION AREA | 23,277 SQ FT |
| TOTAL | 222,082 SQ FT |
| PARKING | |
| REMOVED PARKING SPACES | 32 |
| REPLACED PARKING SPACES | 17 |
| EAST PARKING LOT ALTERNATE | 65 |

SHEET INDEX:

| SHEET | DESCRIPTION |
|--------------|--|
| IS-CS | COVER SHEET |
| IS-C101-103 | EXISTING CONDITIONS & DEMOLITION PLAN |
| IS-C200 | OVERALL DEVELOPMENT PLAN |
| IS-C201-203 | DEVELOPMENT PLAN |
| IS-C204-205 | DEVELOPMENT PLAN DETAILS |
| IS-C301-303 | GRADING PLAN |
| IS-C401-403 | STORMWATER POLLUTION PREVENTION PLAN |
| IS-C404 | STORMWATER POLLUTION PREVENTION PLAN DETAILS |
| IS-C405 | STORMWATER POLLUTION PREVENTION PLAN NOTES |
| IS-C501-503 | UTILITY PLAN |
| IS-C504 | UTILITY DETAILS |
| IS-C701-703 | STORM PLAN AND PROFILE |
| IS-C704-705 | STORM DETAILS |
| IS-C801-802 | SANITARY PLAN AND PROFILE |
| IS-A301 | OVERALL BUILDING ELEVATIONS |
| IS-A311 | PARTIAL BUILDING ELEVATIONS |
| IS-L100-1102 | PERIMETER PLANTING PLAN |
| IS-L200 | PERIMETER PLANTING DETAILS |
| IS-ED100 | OVERALL SITE PLAN ELECTRICAL DEMOLITION |
| IS-E100 | OVERALL SITE PLAN ELECTRICAL |

BENCHMARKS:

REFERENCE BENCHMARK - B 112 - US COAST AND GEODETIC SURVEY DISK 1 MILE EAST OF EAGLETOWN ROAD IN EAGLETOWN, SET IN TO POF A CONCRETE POST 24 FEET NORTH OF THE CENTERLINE OF SR 32 AND 3.8 FEET EAST OF WOOD CORNER POST
ELEV = 924.24 (NAVD 1988 DATUM)

PROJECT BENCHMARK #1 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL ON THE WEST SIDE OF THE DROP OFF DRIVE 130 FEET NORTH OF THE BUILDING
ELEV = 901.03 (NAVD 1988 DATUM)

PROJECT BENCHMARK #2 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD MIDDLE SCHOOL IN AN ISLAND IN THE EAST SIDE OF THE SOUTH PARKING LOT
ELEV = 895.88 (NAVD 1988 DATUM)

PROJECT BENCHMARK #3 - CUT BOX IN LIGHT POLE BASE LOCATED BETWEEN THE WESTFIELD MIDDLE AND INTERMEDIATE SCHOOLS IN THE SOUTHWEST MOST ISLAND IN THE PARKING LOT BETWEEN THE SCHOOLS
ELEV = 901.65 (NAVD 1988 DATUM)

PROJECT BENCHMARK #4 - NUT ON FIRE HYDRANT LOCATED AT THE WESTFIELD INTERMEDIATE SCHOOL ON THE WEST SIDE OF THE DRIVE ON THE EAST SIDE OF THE SCHOOL 34 FEET SOUTH OF THE DROP OFF DRIVE
ELEV = 899.08 (NAVD 1988 DATUM)

AGENCY & UTILITY INFO:

| AGENCY/UTILITY | PHONE NUMBER |
|--|--------------|
| CITY OF WESTFIELD | 317-804-3000 |
| WESTFIELD ECONOMIC AND COMMUNITY DEVELOPMENT DEPT. | 317-804-3170 |
| WESTFIELD PUBLIC WORKS DEPARTMENT | 317-804-3100 |
| WESTFIELD FIRE DEPARTMENT | 317-804-3307 |
| HAMILTON COUNTY SURVEYORS OFFICE | 317-776-8495 |
| ELECTRIC - DUKE ENERGY | 317-776-5331 |
| GAS-VECTREN | 317-776-5550 |
| CABLE-COMCAST | 317-275-6493 |
| WATER &SEWER- CITIZENS WESTFIELD | 317-263-6442 |
| FRONTIER COMMUNICATION | 317-984-9010 |

CAUTION

LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (INCLUDING, BUT NOT LIMITED TO, MANHOLES, INLETS, VALVES, AND MARKS MADE UPON THE GROUND BY OTHERS) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

CRIFE TEAM:

| | | |
|------------------------|-----------------------------|--------------|
| PROJECT MANAGER | JENNIFER LASCH, PE, LEED AP | 317-706-6346 |
| PROJECT ENGINEER | BOB GAFFER, PE | 317-706-6343 |
| PROJECT SURVEYOR | PAUL KLODZEN, PS, EI | 317-706-6382 |
| CIVIL DESIGN ASSOCIATE | ELAINE IYI, EI | 317-706-6308 |
| CIVIL DESIGN ASSOCIATE | SUSAN NORRIS, EI | 317-706-6347 |
| QUALITY ASSURANCE | JENNIFER LASCH, PE, LEED AP | 317-706-6346 |

Revision

| Mark | Date | Description |
|------|----------|-------------|
| 1 | 12-29-17 | 12-29-17 |
| 2 | 12-29-17 | 12-29-17 |
| 3 | 12-29-17 | 12-29-17 |
| 4 | 12-29-17 | 12-29-17 |
| 5 | 12-29-17 | 12-29-17 |
| 6 | 12-29-17 | 12-29-17 |
| 7 | 12-29-17 | 12-29-17 |
| 8 | 12-29-17 | 12-29-17 |
| 9 | 12-29-17 | 12-29-17 |
| 10 | 12-29-17 | 12-29-17 |

ARCHITECTURE • INTERIORS
SURVEY • 3D LASER SCANNING
ENERGY • FACILITIES
LANDSCAPE ARCHITECTURE
REAL ESTATE SERVICES

3939 PRIORITY WAY SOUTH DRIVE, SUITE 200
INDIANAPOLIS, INDIANA 46240
(317) 844-6777 FAX (317) 706-6451
E-Mail: cripe@cripe.biz

COVER SHEET

WESTFIELD INTERMEDIATE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074

1-800-382-5544
CALL US TODAY
E-MAIL: info@cripe.biz

Drawn By:
Checked By:
Quality Assurance:
Scale: 0' = 1" = 100'
Sheet: **IS-CS**
Date: 12-29-17
Client Project Number: 040338-20401

SS ——— S ——— SANITARY SEWER & MANHOLE
 ——— ST ——— STORM SEWER SECTION, INLET & M.H.
 ——— G ——— GAS LINE
 ——— W ——— WATER LINE
 ——— E ——— E ——— ELECTRIC LINE (AERIAL)
 ——— T ——— T ——— TELEPHONE LINE (AERIAL)
 ——— CTV ——— CABLE TELEVISION (AERIAL)
 ——— B ——— BURIED TELE. CABLE
 ——— BEC ——— BURIED ELEC. CABLE
 ——— X ——— FENCE LINE (FNC)
 ——— BECTV ——— BURIED CABLE TV
 ——— I ——— I ——— GUARDRAIL
 ——— ——— RIGHT OF WAY LINE (R/W)
 ——— ——— PROPERTY LINE
 ——— ——— EASEMENT LINE
 ——— ——— CENTER LINE
 ——— ——— SWALE LINE
 D. DEED DIMENSION
 M. MEASURED DIMENSION
 P. PLAT DIMENSION
 R. RADIUS
 L. ARC LENGTH
 H.H. HANDHOLE
 FND. FOUND
 CONC. CONCRETE
 ASPH. ASPHALT
 TC TOP OF CASTING ELEVATION
 IE INVERT ELEVATION
 FFE FINISH FLOOR ELEVATION
 TBM TEMPORARY BENCHMARK
 ● DENOTES A 5/8" DIA. REBAR WITH 'YELLOW PLASTIC CAP SET, CAP STAMPED "CRIPR FIRM NO. 0055" UNLESS OTHERWISE NOTED.
 ○ DENOTES A MAG NAIL WITH WASHER SET.

 POWER POLE
 GUY WIRE
 UTILITY RISER; TELEPHONE, ELECTRIC & CABLE TV
 ELECTRIC TRANSFORMER
 AIR CONDITIONER UNIT
 STREET LIGHT
 LIGHT POLE
 FLOOD LIGHT
 TRAFFIC MANHOLE AND SIGNAL POLE
 FIRE HYDRANT
 VALVE; GAS & WATER
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 ELECTRIC, GAS AND WATER METER
 PIPELINE MARKER POST
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 CURB/GUTTER GRADE
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 FIRE SERVICE STAND PIPE
 GAS VENT PIPE
 SEPTIC TANK LID
 WELL CAP
 AIR RELIEF VALVE
 UNDERGROUND TANK FILLER PIPE
 ADDRESS

EXISTING ASPHALT
TO BE SAWCUT AND
REMOVED FROM SITE

EXISTING CONCRETE
TO BE SAWCUT AND
REMOVED FROM SITE

CONSTRUCTION LIMITS

CONSTRUCTION FENCING—COORDINATE
LOCATION WITH OWNER

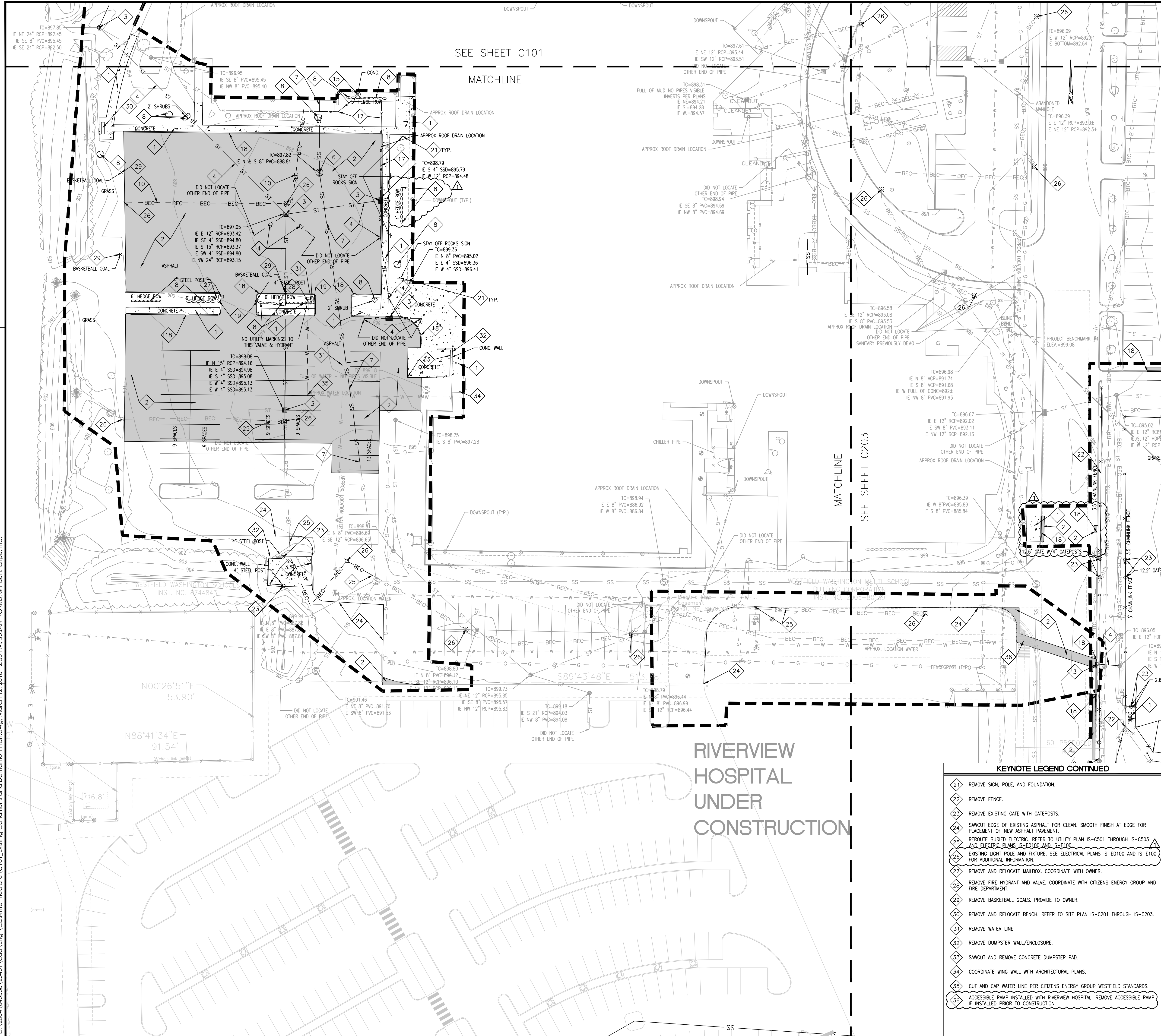
TP ——— TP TREE PRESERVATION

1. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
3. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PER SHEET IS-C401 THROUGH IS-C403 PRIOR TO COMMENCING DEMOLITION.
5. MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
6. SAW CUT EXISTING CONCRETE AND ASPHALT SURFACES FOR REMOVAL AS NOTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
8. THE CONCRETE PROPOSED TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CENTER JOINT BEYOND THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
9. REMOVAL OR RELOCATION OF ALL EXISTING LANDSCAPING MUST BE COORDINATED WITH OWNER.
10. EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE NEW CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
11. EXISTING WATER LINES SHALL NOT BE ABANDONED OR DEMOLISHED UNTIL PROPOSED WATER MAINS HAVE BEEN INSTALLED TO A POINT SUCH THAT ONLY MINIMAL DISRUPTION IN WATER SERVICE TO THE EXISTING OCCUPIED BUILDINGS WILL OCCUR.
12. CONTRACTOR SHALL COORDINATE PLACEMENT OF CONSTRUCTION FENCING WITH OWNER AND EMERGENCY PERSONNEL PRIOR TO CONSTRUCTION.
13. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

- 1 SAWCUT AND REMOVE CONCRETE SIDEWALK TO THE NEAREST CONCRETE JOINT FROM THE LIMITS ILLUSTRATED. NOTIFY ENGINEER IF JOINT IS OVER ONE (1) FOOT FROM LINE SHOWN.
- 2 SAW CUT AND REMOVE EXISTING ASPHALT AND GRANULAR SUBBASE.
- 3 REMOVE STORM STRUCTURE.
- 4 REMOVE STORM PIPE.
- 5 REMOVE NORTH END OF KOI POND. REPAIR TO MATCH EXISTING.
- 6 REMOVE SANITARY STRUCTURE.
- 7 REMOVE SANITARY PIPE. COORDINATE TIMING WITH OWNER.
- 8 REMOVE TREE, SHRUBS, UNDERBRUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS.
- 9 REMOVE CONCRETE BENCHES AND DECORATIVE POLE. PROVIDE TO OWNER.
- 10 REMOVE BURIED ELECTRIC LINE. REFER TO UTILITY PLAN IS-C501 THROUGH IS-C503 AND ELECTRIC PLANS IS-ED100.
- 11 RELOCATE FEED TO PROTECT EXISTING FIBER SERVICE CONDUIT. SEE ELECTRICAL PLANS IS-ED100 AND IS-E100.
- 12 REMOVE GARDEN.
- 13 REMOVE BOULDERS FROM SITE.
- 14 SHED AND FOUNDATION TO BE RELOCATED. SEE SHEET IS-L110 FOR LOCATION.
- 15 REMOVE STORM CLEANOUT.
- 16 REMOVE CONCRETE PAD. ELECTRIC TRANSFORMER TO BE REMOVED. COORDINATE WITH DUKE ENERGY.
- 17 REMOVE EXISTING ROOF DRAIN.
- 18 SAW CUT AND REMOVE CONCRETE CURB.
- 19 REMOVE STEEL POST.
- 20 REMOVE SCOREBOARD, POSTS, AND FOUNDATIONS IN THEIR ENTIRETY.

| | |
|----|---|
| 21 | REMOVE SIGN, POLE, AND FOUNDATION. |
| 22 | REMOVE FENCE. |
| 23 | REMOVE EXISTING GATE WITH GATEPOSTS. |
| 24 | SAWCUT EDGE OF EXISTING ASPHALT FOR CLEAN, SMOOTH FINISH AT EDGE FOR REPLACEMENT OF NEW ASPHALT PAVEMENT. |
| 25 | REROUTE BURIED ELECTRIC. REFER TO UTILITY PLAN IS-C501 THROUGH IS-C503 AND ELECTRICAL PLANS IS-ED100 AND IS-E100. |
| 26 | EXISTING LIGHT POLE AND FIXTURE. SEE ELECTRICAL PLANS IS-ED100 AND IS-E100 FOR ADDITIONAL INFORMATION. |
| 27 | REMOVE AND RELOCATE MAILBOX. COORDINATE WITH OWNER. |
| 28 | REMOVE FIRE HYDRANT AND VALVE. COORDINATE WITH CITIZENS ENERGY GROUP AND FIRE DEPARTMENT. |
| 29 | REMOVE BASKETBALL GOALS. PROVIDE TO OWNER. |
| 30 | REMOVE AND RELOCATE BENCH. REFER TO SITE PLAN IS-C201 THROUGH IS-C203. |
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| 32 | REMOVE DUMPSTER WALL/ENCLOSURE. |
| 33 | SAWCUT AND REMOVE CONCRETE DUMPSTER PAD. |
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| 35 | CUT AND CAP WATER LINE PER CITIZENS ENERGY GROUP WESTFIELD STANDARDS. |
| 36 | ACCESSIBLE RAMP INSTALLED WITH RIVERVIEW HOSPITAL. REMOVE ACCESSIBLE RAMP IF INSTALLED PRIOR TO CONSTRUCTION. |

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EXISTING FEATURES LEGEND

- | | |
|---|---|
| SS — S — SANITARY SEWER & MANHOLE | ⊗ POWER POLE |
| ST — S — STORM SEWER, END SECTION, INLET & M.H. | — GUY WIRE |
| — G — G — GAS LINE | ⚡ UTILITY RISER; TELEPHONE, ELECTRIC & CABLE TV |
| — W — W — WATER LINE | ⊞ ELECTRIC TRANSFORMER |
| — E — E — ELECTRIC LINE (AERIAL) | ⊞ AIR CONDITIONER UNIT |
| — T — T — TELEPHONE LINE (AERIAL) | ⊞ STREET LIGHT |
| — CTV — CABLE TELEVISION (AERIAL) | ⊞ LIGHT POLE |
| — BTC — BURIED TELE. CABLE | ⊞ FLOOD LIGHT |
| — BEC — BURIED ELEC. CABLE | ⊞ TRAFFIC MANHOLE AND SIGNAL POLE |
| — F — F — FENCE LINE (FNC) | ⊞ FIRE HYDRANT |
| — BCTV — BURIED CABLE TV | ⊞ VALVE; GAS & WATER |
| — Q — Q — QUARDRAIL | ⊞ STREET SIGN |
| — R/W — R/W — RIGHT OF WAY LINE (R/W) | ⊞ WATER, TELEPHONE AND ELECTRIC MANHOLE |
| — P — P — PROPERTY LINE | ⊞ SEWER CLEANOUT |
| — E — E — EASEMENT LINE | ⊞ ELECTRIC, GAS AND WATER METER |
| — C — C — CENTER LINE | ⊞ PIPELINE MARKER POST |
| — S — S — SWALE LINE | ⊞ MAILBOX |
| D. — DEED DIMENSION | ⊞ GUARD POST |
| M. — MEASURED DIMENSION | ⊞ SPRINKLER HEAD |
| P. — PLAT DIMENSION | ⊞ IRRIGATION CONTROL BOX |
| R. — RADIUS | ⊞ SPOT GRADE |
| L. — ARC LENGTH | ⊞ TOP CURB/GUTTER GRADE |
| H.H. — HANDHOLE | ⊞ MONITORING WELL |
| FND. — FOUND | ⊞ FIRE SERVICE STAND PIPE |
| CONC. — CONCRETE | ⊞ GAS VENT PIPE |
| ASPH. — ASPHALT | ⊞ SEPTIC TANK LID |
| TC — TOP OF CASTING ELEVATION | ⊞ WELL CAP |
| IE — INVERT ELEVATION | ⊞ AIR RELIEF VALVE |
| FFE — FINISH FLOOR ELEVATION | ⊞ UNDERGROUND TANK FILLER PIPE |
| TBM — TEMPORARY BENCHMARK | ⊞ SITE ADDRESS |
- DENOTES A 5/8" DIA. REBAR WITH WASHER SET. WASHER STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.
- DENOTES A MAG. NAIL WITH WASHER SET. WASHER STAMPED "CRIPE FIRM NO. 0055" UNLESS OTHERWISE NOTED.

DEMOLITION PLAN LEGEND

- | | |
|---|--|
| EXISTING ASPHALT TO BE SAWCUT AND REMOVED FROM SITE | EXISTING CONCRETE TO BE SAWCUT AND REMOVED FROM SITE |
| CONSTRUCTION LIMITS | CONSTRUCTION FENCING-COORDINATE LOCATION WITH OWNER |
| TP — TP — TREE PRESERVATION | |

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KEYNOTE LEGEND CONTINUED

- | | |
|----|---|
| 21 | REMOVE SIGN, POLE, AND FOUNDATION. |
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EXISTING CONDITIONS AND DEMOLITION PLAN

WESTFIELD INTERMEDIATE SCHOOL

ADDITIONS AND RENOVATIONS

WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074

CER: [Signature]

12-29-2017

COVERING EXISTING CONDITIONS AND DEMOLITION PLAN DESIGN

Indiana 811

1-800-382-5544

Drawn By: [Signature]

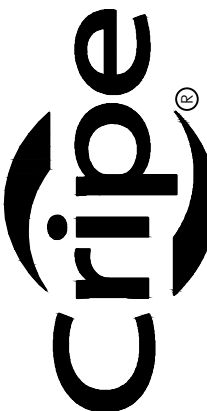
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Sheet: IS-C102

Date: 12-29-17

Client Project Number: 040338-20401

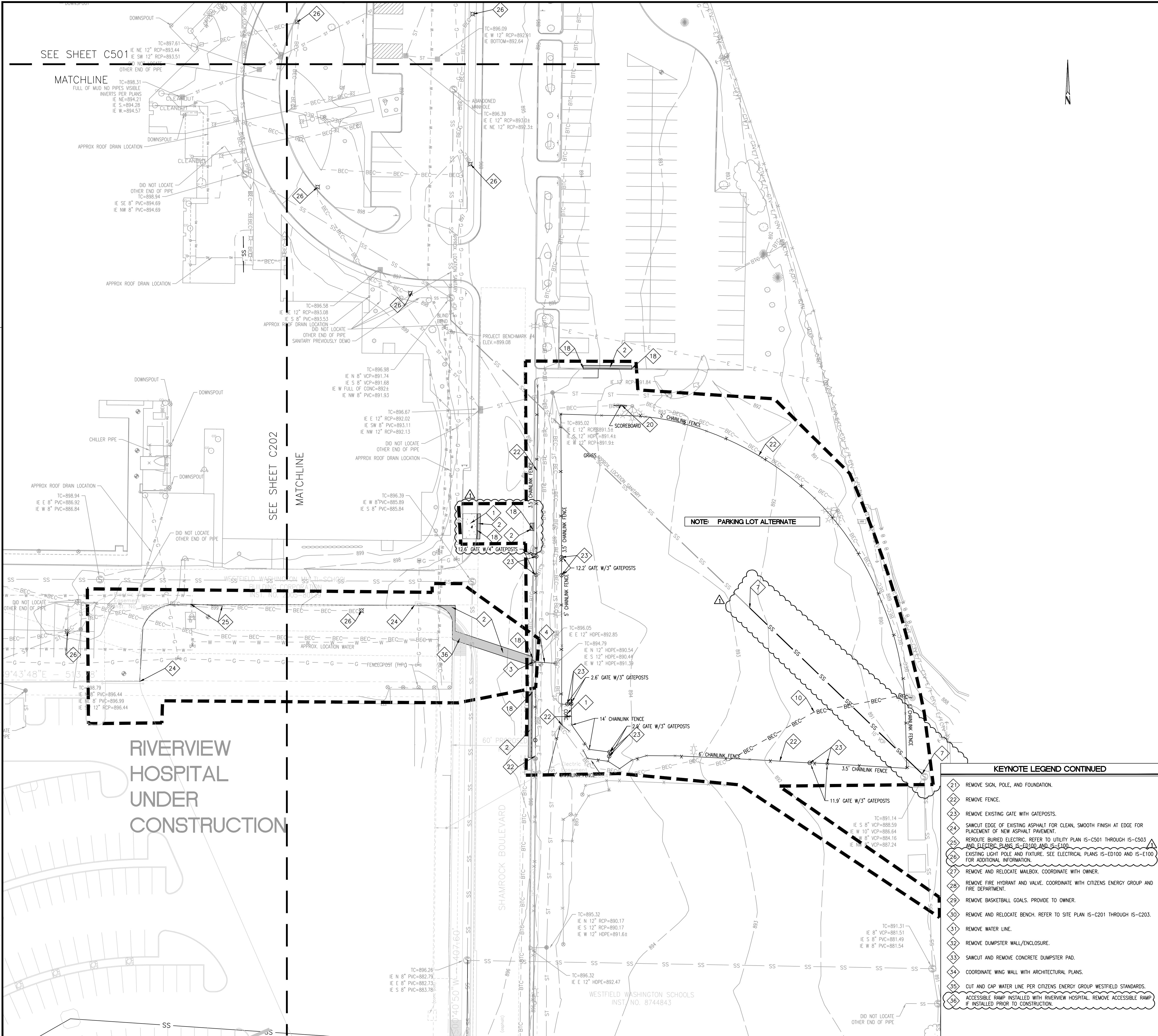


ARCHITECTURE • INTERIORS
SURVEY • 3D LASER SCANNING
ENERGY • FACILITIES
LANDSCAPE ARCHITECTURE
REAL ESTATE SERVICES

| Revision | Date | Description |
|----------|------------|-------------------|
| 1 | 12-29-2017 | ISSUED FOR PERMIT |

| Mark | Address | TAC COMMENTS |
|------|---------------|--------------|
| 1 | 326 W MAIN ST | |

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EXISTING FEATURES LEGEND

SS

SANITARY SEWER & MANHOLE

ST

STORM SEWER, END SECTION, INLET & M.H.

G

GAS LINE

W

WATER LINE

E

ELECTRIC LINE (AERIAL)

T

TELEPHONE LINE (AERIAL)

CTV

CABLE TELEVISION (AERIAL)

BTC

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FNC

FENCE LINE (FNC)

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I

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PROPERTY LINE

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CENTER LINE

SWALE LINE

D

DEED DIMENSION

M

MEASURED DIMENSION

P

PLAT DIMENSION

L

RADIUS

ARC LENGTH

H.H.

HANDHOLE

FND

FOUND

CONC.

CONCRETE

ASPH.

ASPHALT

IE

INVERT ELEVATION

FFE

FINISH FLOOR ELEVATION

TBM

TEMPORARY BENCHMARK

POWER POLE

QUY WIRE

UTILITY RISER; TELEPHONE, ELECTRIC & CABLE TV

ELECTRIC TRANSFORMER

AIR CONDITIONER UNIT

STREET LIGHT

LIGHT POLE

FLOOD LIGHT

TRAFFIC MANHOLE AND SIGNAL POLE

FIRE HYDRANT

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MONITORING WELL

FIRE SERVICE STAND PIPE

GAS VENT PIPE

SEPTIC TANK LID

WELL CAP

AIR RELIEF VALVE

UNDERGROUND TANK FILLER PIPE

SITE ADDRESS

DEMOLITION PLAN LEGEND

EXISTING ASPHALT TO BE SAWCUT AND REMOVED FROM SITE

EXISTING CONCRETE TO BE SAWCUT AND REMOVED FROM SITE

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CONSTRUCTION FENCING-COORDINATE LOCATION WITH OWNER

TREE PRESERVATION

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8 REMOVE TREE, SHRUBS, UNDERBRUSH, LANDSCAPING AND VEGETATION INCLUDING ROOT BALLS.

9 REMOVE CONCRETE BENCHES AND DECORATIVE POLE. PROVIDE TO OWNER.

10 REMOVE BURIED ELECTRIC LINE. REFER TO UTILITY PLAN IS-C501 THROUGH IS-C503 AND ELECTRIC PLANS IS-ED100.

11 RELOCATE FEED TO PROTECT EXISTING FIBER SERVICE CONDUIT. SEE ELECTRICAL PLANS IS-ED100 AND IS-E100.

12 REMOVE GARDEN.

13 REMOVE BOULDERS FROM SITE.

14 SHED AND FOUNDATION TO BE RELOCATED. SEE SHEET IS-L110 FOR LOCATION.

15 REMOVE STORM CLEANOUT.

16 REMOVE CONCRETE PAD. ELECTRIC TRANSFORMER TO BE REMOVED. COORDINATE WITH DUKE ENERGY.

17 REMOVE EXISTING ROOF DRAIN.

18 SAW CUT AND REMOVE CONCRETE CURB.

19 REMOVE STEEL POST.

20 REMOVE SCOREBOARD, POSTS, AND FOUNDATIONS IN THEIR ENTIRETY

KEYNOTE LEGEND CONTINUED

21 REMOVE SIGN, POLE, AND FOUNDATION.

22 REMOVE FENCE.

23 REMOVE EXISTING GATE WITH GATEPOSTS.

24 SAWCUT EDGE OF EXISTING ASPHALT FOR CLEAN, SMOOTH FINISH AT EDGE FOR PLACEMENT OF NEW ASPHALT PAVEMENT.

25 REROUTE BURIED ELECTRIC. REFER TO UTILITY PLAN IS-C501 THROUGH IS-C503 AND ELECTRIC PLANS IS-ED100 AND IS-E100.

26 EXISTING LIGHT POLE AND FIXTURE. SEE ELECTRICAL PLANS IS-ED100 AND IS-E100 FOR ADDITIONAL INFORMATION.

27 REMOVE AND RELOCATE MAILBOX. COORDINATE WITH OWNER.

28 REMOVE FIRE HYDRANT AND VALVE. COORDINATE WITH CITIZENS ENERGY GROUP AND FIRE DEPARTMENT.

29 REMOVE BASKETBALL GOALS. PROVIDE TO OWNER.

30 REMOVE AND RELOCATE BENCH. REFER TO SITE PLAN IS-C201 THROUGH IS-C203.

31 REMOVE WATER LINE.

32 REMOVE DUMPSTER WALL/ENCLOSURE.

33 SAWCUT AND REMOVE CONCRETE DUMPSTER PAD.

34 COORDINATE WING WALL WITH ARCHITECTURAL PLANS.

35 CUT AND CAP WATER LINE PER CITIZENS ENERGY GROUP WESTFIELD STANDARDS.

36 ACCESSIBLE RAMP INSTALLED WITH RIVERVIEW HOSPITAL. REMOVE ACCESSIBLE RAMP IF INSTALLED PRIOR TO CONSTRUCTION.

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(317) 844-6777 FAX (317) 706-6451
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EXISTING CONDITIONS AND DEMOLITION PLAN
WESTFIELD INTERMEDIATE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074

12-29-2017

COVERING
EXISTING CONDITIONS AND
DEMOLITION PLAN
DESIGN

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Drawn By: SPN

Checked By: RLO

Quality Assurance: JML

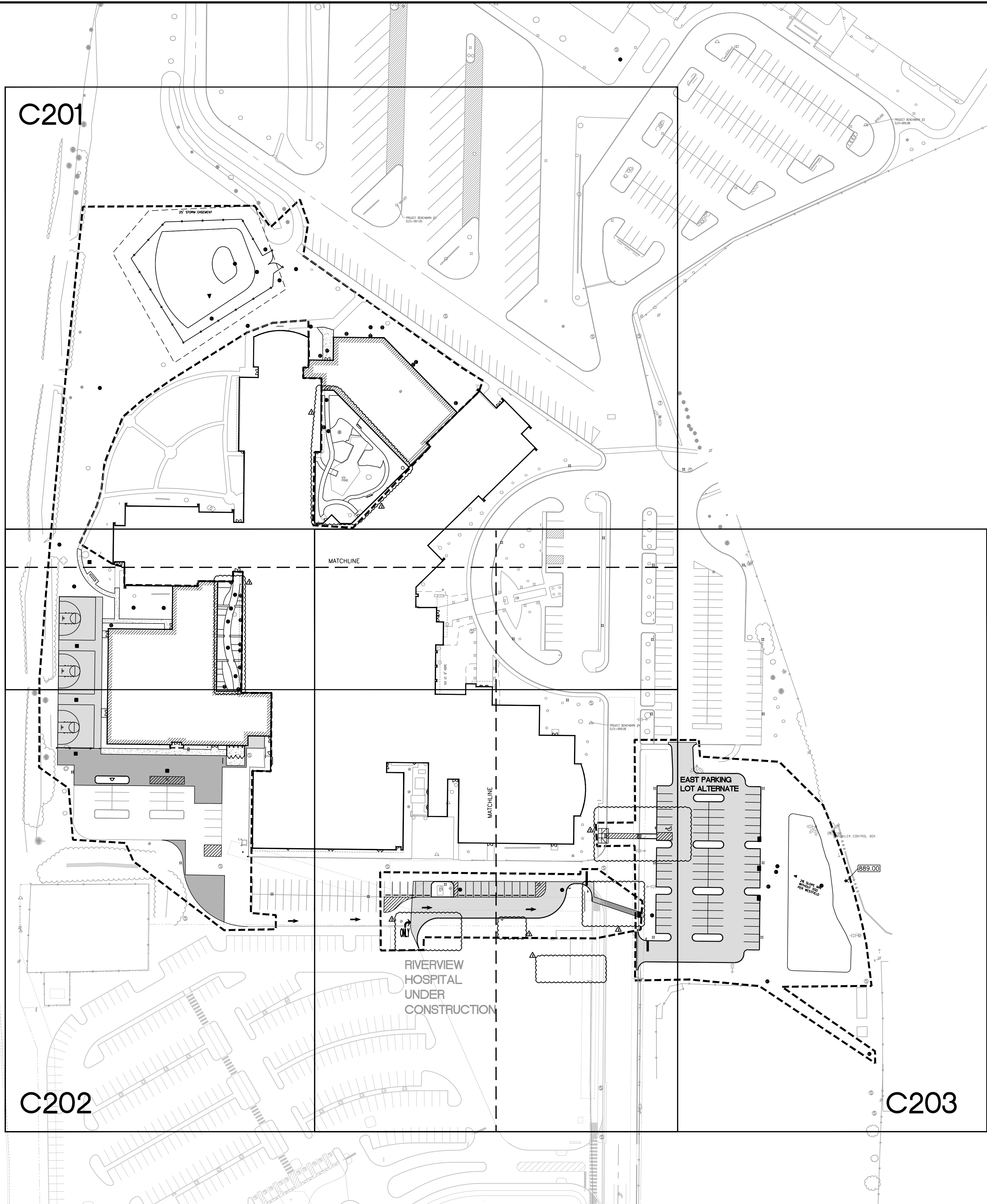
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Date: 12-29-17

Client Project Number: 040338-20401

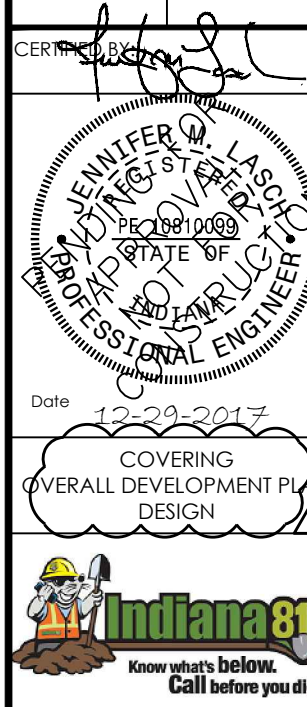
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DEVELOPMENT PLAN LEGEND

- PROPERTY LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- FENCE
- CONSTRUCTION LIMITS
- NEW BUILDING LIMITS

OVERALL DEVELOPMENT PLAN
WESTFIELD INTERMEDIATE SCHOOL
ADDITIONS AND RENOVATIONS
WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074



Drawn By: **RLO**
Checked By: **RLO**
Quality Assurance: **JML**
Scale: 0' = 40'
Sheet: **IS-C200**
Date: **12-29-17**
Client Project Number: **17075**

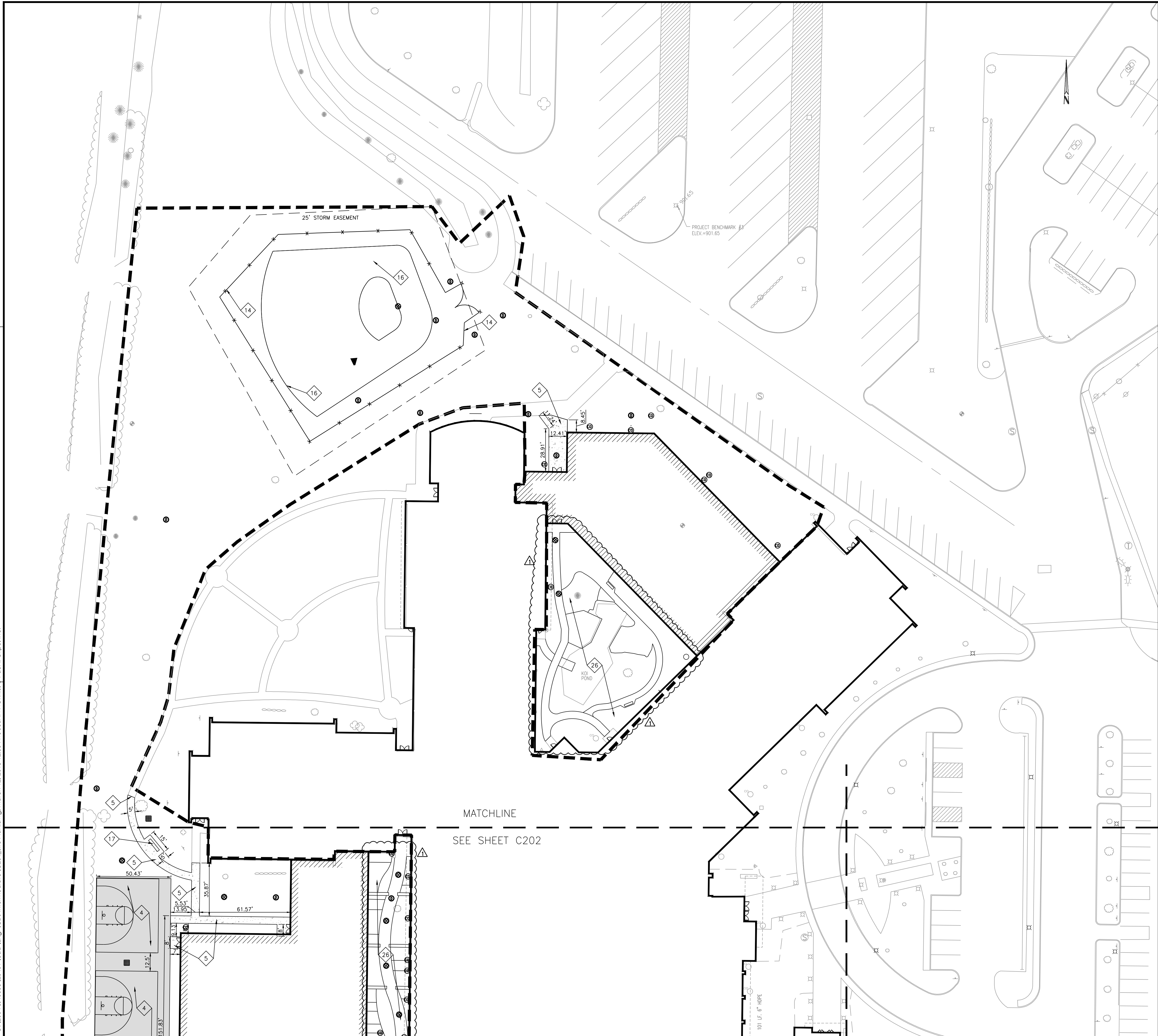
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| Revisions | Date | Description |
|-----------|------------|----------------------|
| 1 | 03/02/2018 | ADDRESS IAC COMMENTS |

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| x x x | FENCE |
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- TRAFFIC FLOW ARROWS FOR REFERENCE ONLY
- PARKING COUNT

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- KEYNOTE LEGEND**
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| 11 | STREET SIGNS- STOP SIGN. | |
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| 13 | LOCKABLE SWING ARM GATE WITH 6" CONCRETE POSTS FOR OVERFLOW PARKING. | |
| 14 | 6" NON-CLIMBABLE BLACK VINYL COATED CHAIN LINK FENCE WITH 3/8" MESH. | |
| 15 | REPAIR/REPLACE NORTH END OF KOI POND TO MATCH EXISTING. | |
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| Revisions | Date | Description |
| Mark | 03/02/2018 | ADDRESS TAC COMMENTS |

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DEVELOPMENT PLAN
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WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074

CER: [Signature]
PAUL I. CRIPe, INC.
REGISTERED PROFESSIONAL ENGINEER
No. 121023
Exp. 12/31/2023
Date: 3/12/2018
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Date: 12-29-17
Client Project Number: 17075

SEE SHEET C201

MATCHLINE

MATCHLINE
SEE SHEET C203

RIVERVIEW
HOSPITAL
UNDER
CONSTRUCTION

DEVELOPMENT PLAN LEGEND

- PROPERTY LINE
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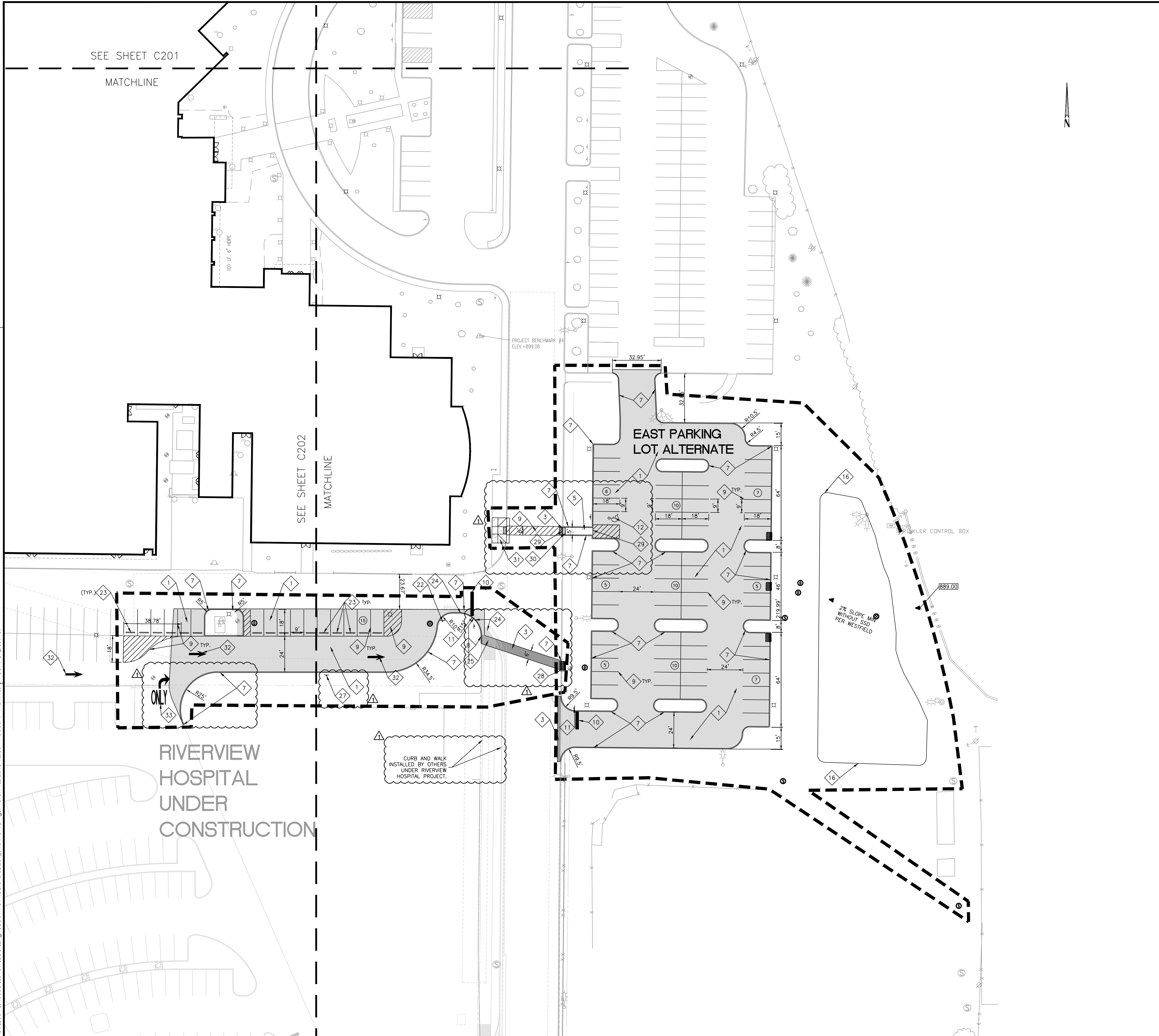
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Cripe Project Number
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| Revisions | Date | By | Description |
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| 1 | 03/02/2018 | Paul I. Cripe | ADDRESS TAC COMMENTS |

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DEVELOPMENT PLAN
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WESTFIELD WASHINGTON SCHOOL CORP.
326 W MAIN ST WESTFIELD, IN 46074

CER: [Signature]

PAUL I. CRIPES, P.E.
REGISTERED PROFESSIONAL ENGINEER
No. 120223
Exp. 12/31/2023

Date: 03/02/2018

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DESIGN

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Sheet: IS-C203
Date: 12-29-17
Client Project Number: 17075



CSO Architects
ARCHITECTURE - INTERIOR DESIGN
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Main 317.898.7800 - csoinc.net
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PROJECT:
**WESTFIELD INTERMEDIATE SCHOOL
ADDITIONS AND RENOVATIONS**
328 WEST MAIN STREET WESTFIELD, INDIANA 46074
FOR:
Westfield Washington School Corp.

SCOPE DRAWINGS:
These drawings illustrate the general scope of the project in terms of architectural design, concept, the determination of the building, the major architectural elements and the type of structure, materials and finishes selected.
The drawings do not necessarily indicate or comprise all work required for full performance and completion of the requirements of the Contract.
On the basis of the general scope indicated or described, the full information and detail of items required for the proper execution and completion of the work.

REVISIONS:

ISSUE DATE: 02-28-2018
DRAWN BY: LTR
CHECKED BY: CAM

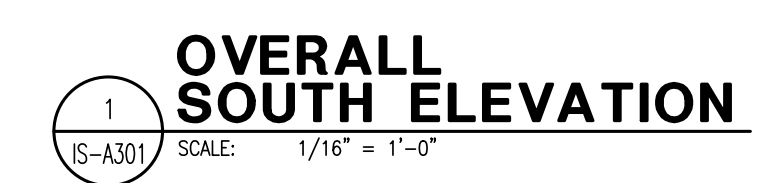
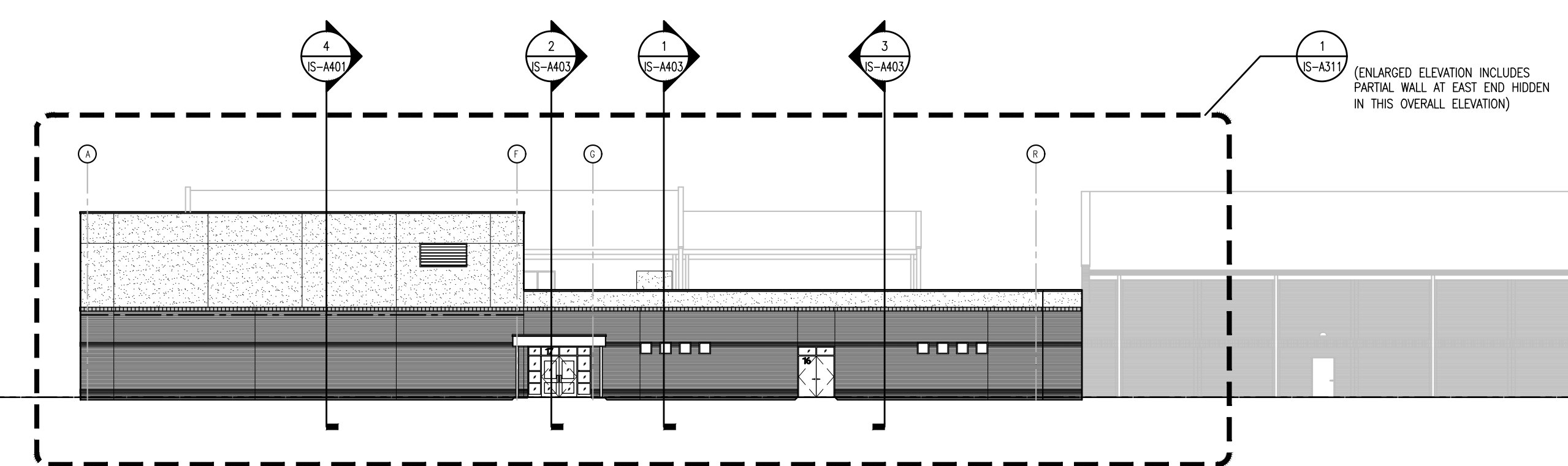
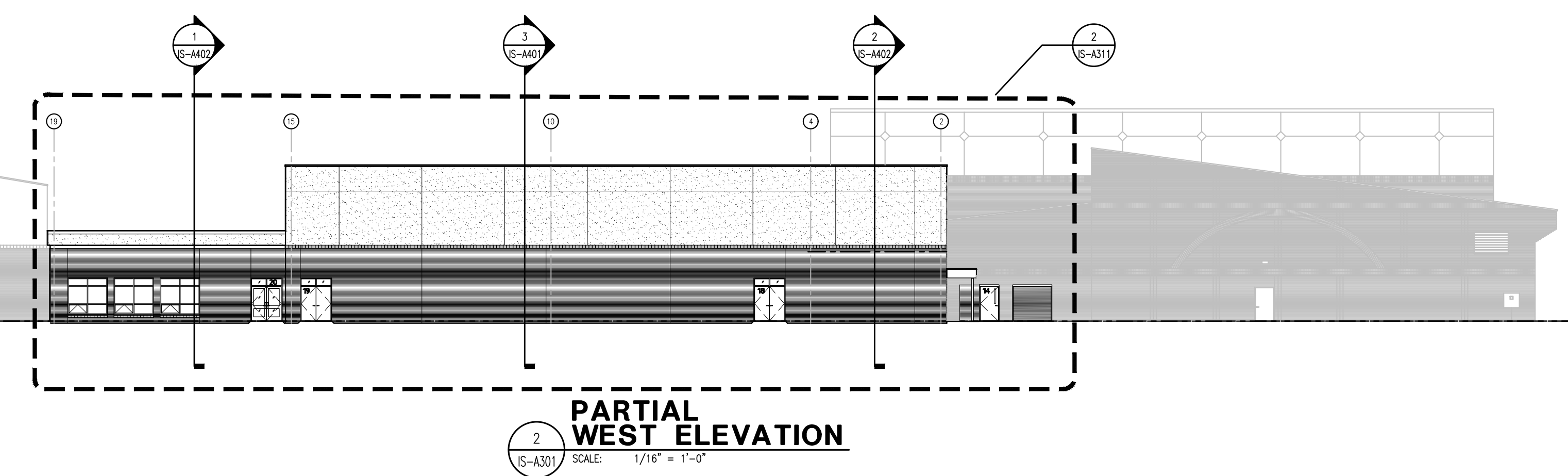
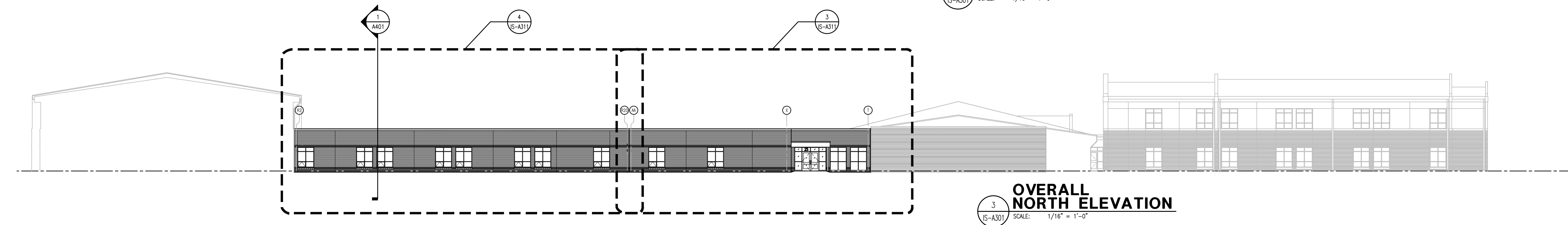
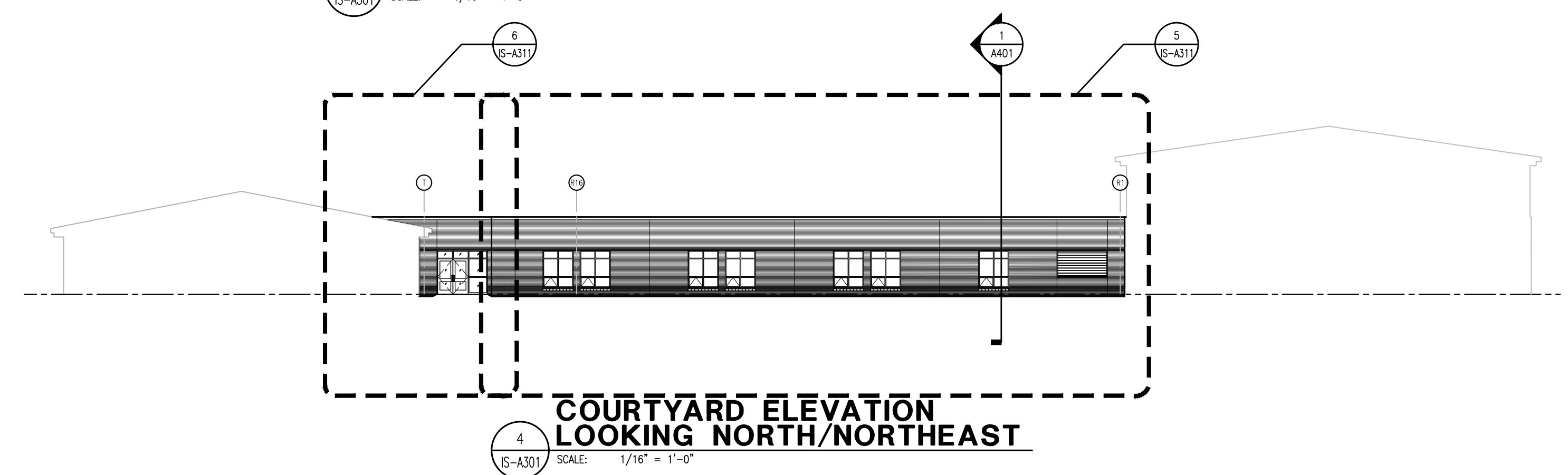
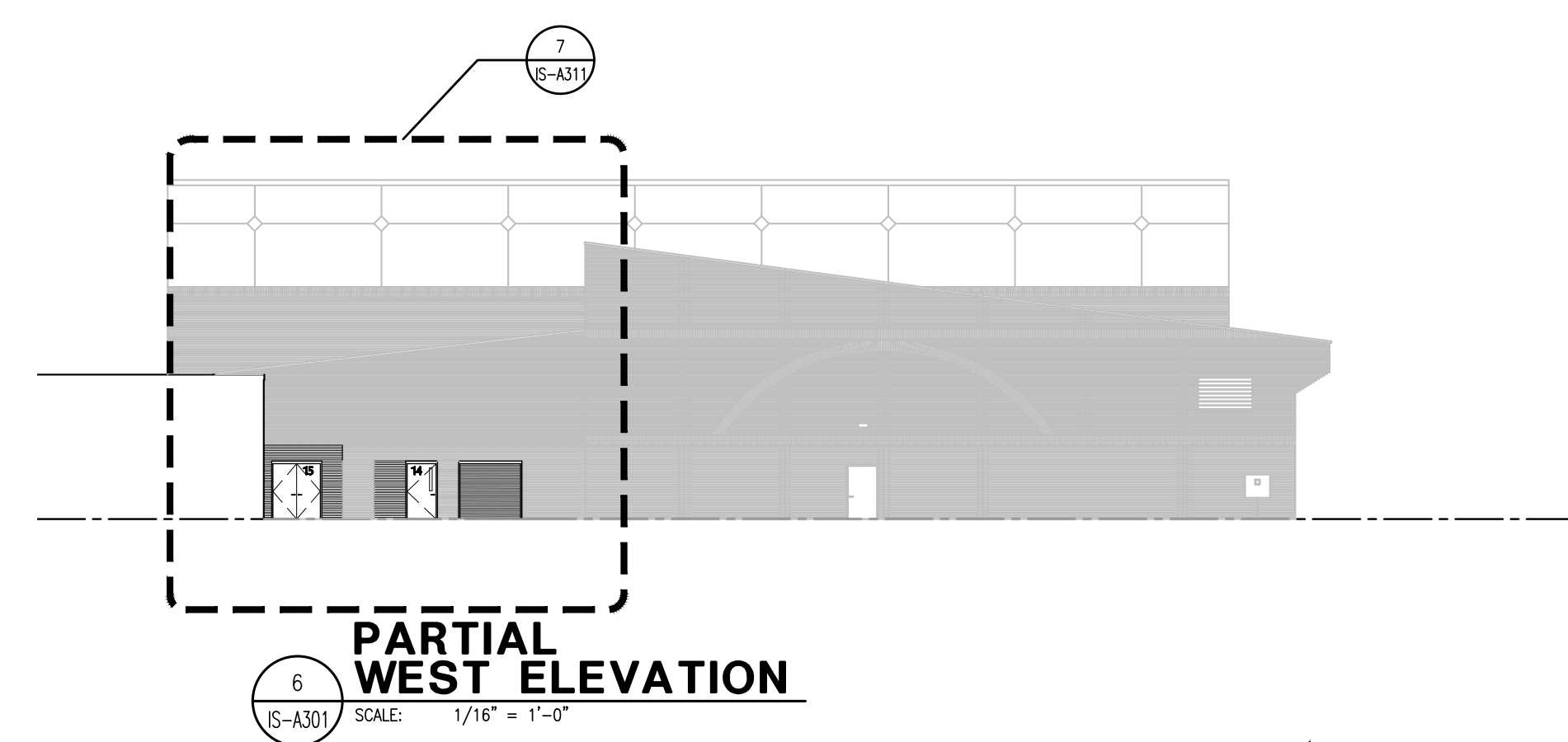
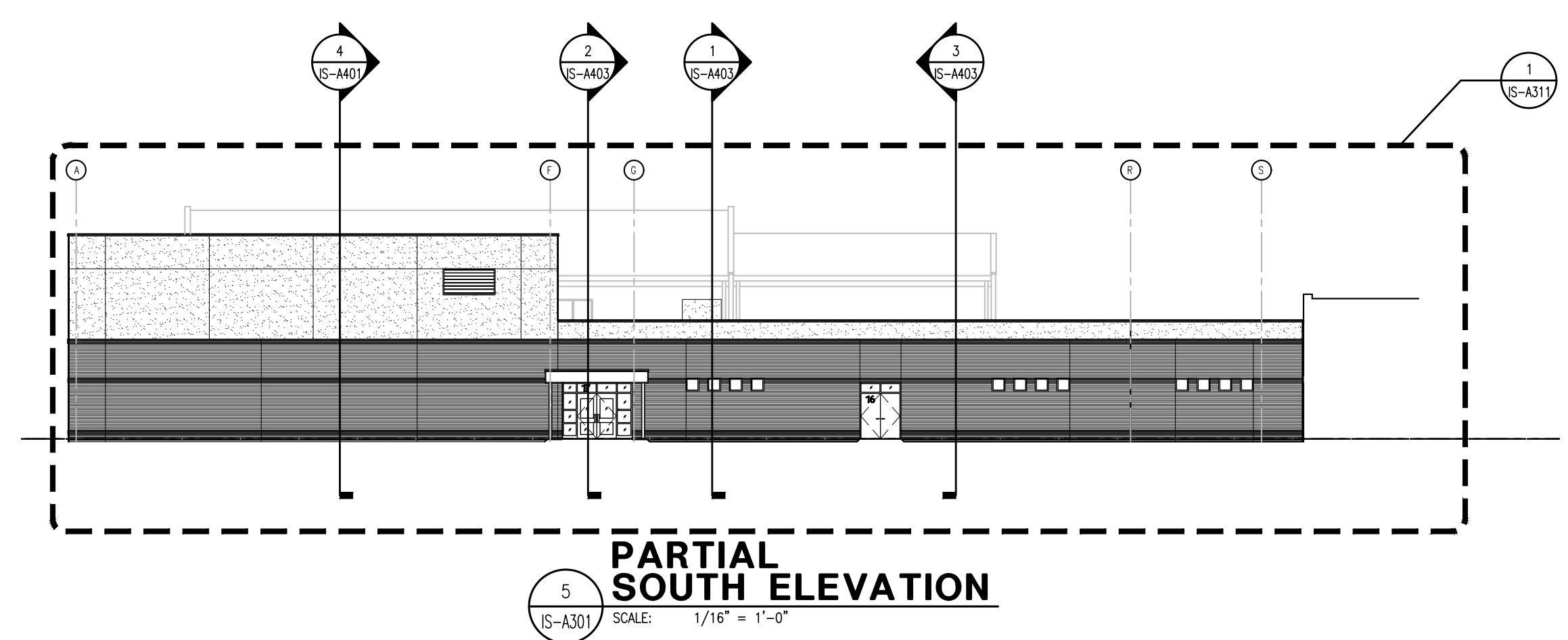
DRAWING TITLE:
**OVERALL
BUILDING
ELEVATIONS**

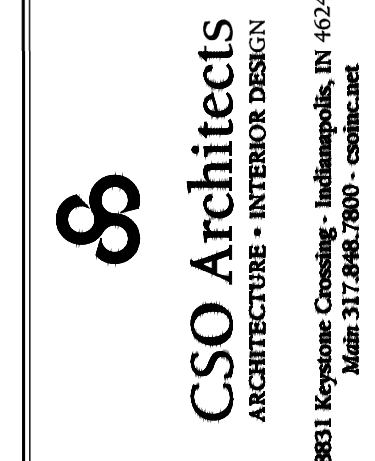
CERTIFIED BY:

John E. Riggs

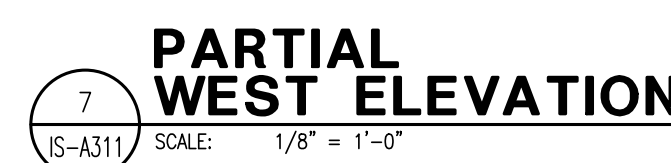
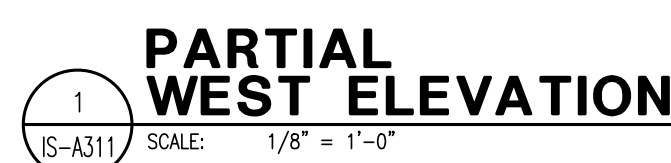
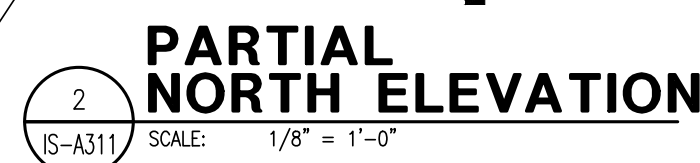
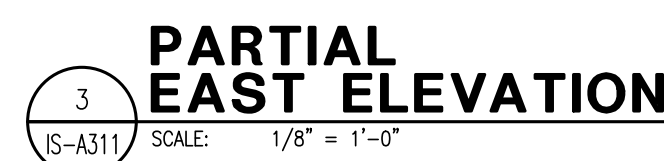
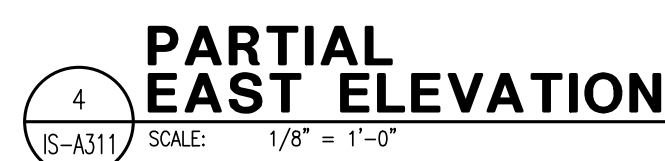
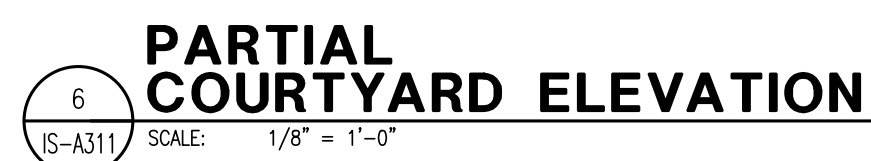
DRAWING NUMBER:
IS-A301

PROJECT NUMBER:
17075





- 1 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM COPING SYSTEM. MATCH EXISTING COLOR. MATCH HEIGHT OF EXISTING ADJACENT ACCEENT BRICK BAND.
- 2 BRICK VENEER #1 – FIELD BRICK – LIGHTER COLOR MODULAR BRICK TO MATCH EXISTING SIZE, COLOR, TEXTURE. CUSTOM MORTAR COLOR, ETC.: RUNNING BOND
- 3 BRICK VENEER #2 – ACCENT BRICK – DARKER COLOR MODULAR BRICK TO MATCH EXISTING SIZE, COLOR, TEXTURE. CUSTOM MORTAR COLOR, ETC.: RUNNING BOND TO MATCH EXISTING. 3 COURSES TO SET 2" PAST FIELD BRICK WHERE NOTED AND AS OTHERWISE REQUIRED TO MATCH EXISTING SIMILAR PATTERN.
- 4 BRICK VENEER #3 – ACCENT BRICK – 8 X 8 NOMINAL BRICK TO MATCH EXISTING SIZE, COLOR, TEXTURE. MORTAR COLOR, ETC.: CUSTOM SHAPE AT WINDOW SUELS TO MATCH EXISTING. PROVIDE CUSTOM SHAPES AT EXTERIOR CORNERS. PROVIDE CUSTOM 8X8 SHAPE AT TOP OF BRICK WALL BELOW EIFS.
- 5 BRICK VENEER #4 – CLEAN AND REUSE EXISTING BRICK AS REQUIRED TO INFILL DOW, WINDOW, OVERHEAD DOW OPENING.
- 6 ALUMINUM STOREFRONT/ENTRANCE. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 7 GALVANNEELED HOLLOW METAL DOW AND FRAME. SEE OPENING SCHEDULE FOR ADDITIONAL INFORMATION.
- 8 2" EXPANSION JOINT
- 9 STEEL COLUMN – PAINTED
- 10 COMPOSITE ALUMINUM PANEL SYSTEM CANOPY. MOUNTED TO PLYWOOD AND METAL SUB-FRAMING SYSTEM.
- 11 EXTERIOR DOW NUMBER SIGNAGE TO BE BY OWNER.
- 12 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM GRAVEL STOP/ ROOF EDGE
- 13 NEW ELECTRICALLY OPERATED COILING OVERHEAD DOW.
- 14 EIFS AS INDICATED.
- 15 ALUMINUM STOREFRONT MATCH EXISTING WINDOW WITH WINNING TYPE VENT WITH SCREEN AS INDICATED.
- 16 PRE-FINISHED FIXED ARCHITECTURAL LOUVER. SIZE AS INDICATED. REFER TO MEP FOR ADDITIONAL INFORMATION. COORDINATE WITH MECHANICAL UNIT. AS REQUIRED. CUSTOM COLOR AS SELECTED BY ARCHITECT.
- 17 PRE-FINISHED, PRE-MANUFACTURED ALUMINUM COPING SYSTEM. MATCH EXISTING COLOR AND PROFILE OF EXISTING COPING SYSTEM.
- 18 ALUMINUM STOREFRONT FRAMING WINDOW SYSTEM.
- 19 EIFS JOINTS @ APPROX. 16" O.C. AS INDICATED



PROJECT: **WESTFIELD INTERMEDIATE SCHOOL
ADDITIONS AND RENOVATIONS**
326 WEST MAIN STREET WESTFIELD, INDIANA 46074

FOR: **Westfield Washington School Corp.**

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe the work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for proper execution and completion of the work.

REVISIONS:

| | | |
|------------|----------|---------|
| ISSUE DATE | DRAWN BY | CHECKED |
| 02-28-2018 | LTR | CAM |

DRAWING TITLE:
**PARTIAL
BUILDING
ELEVATIONS**

CERTIFIED BY:

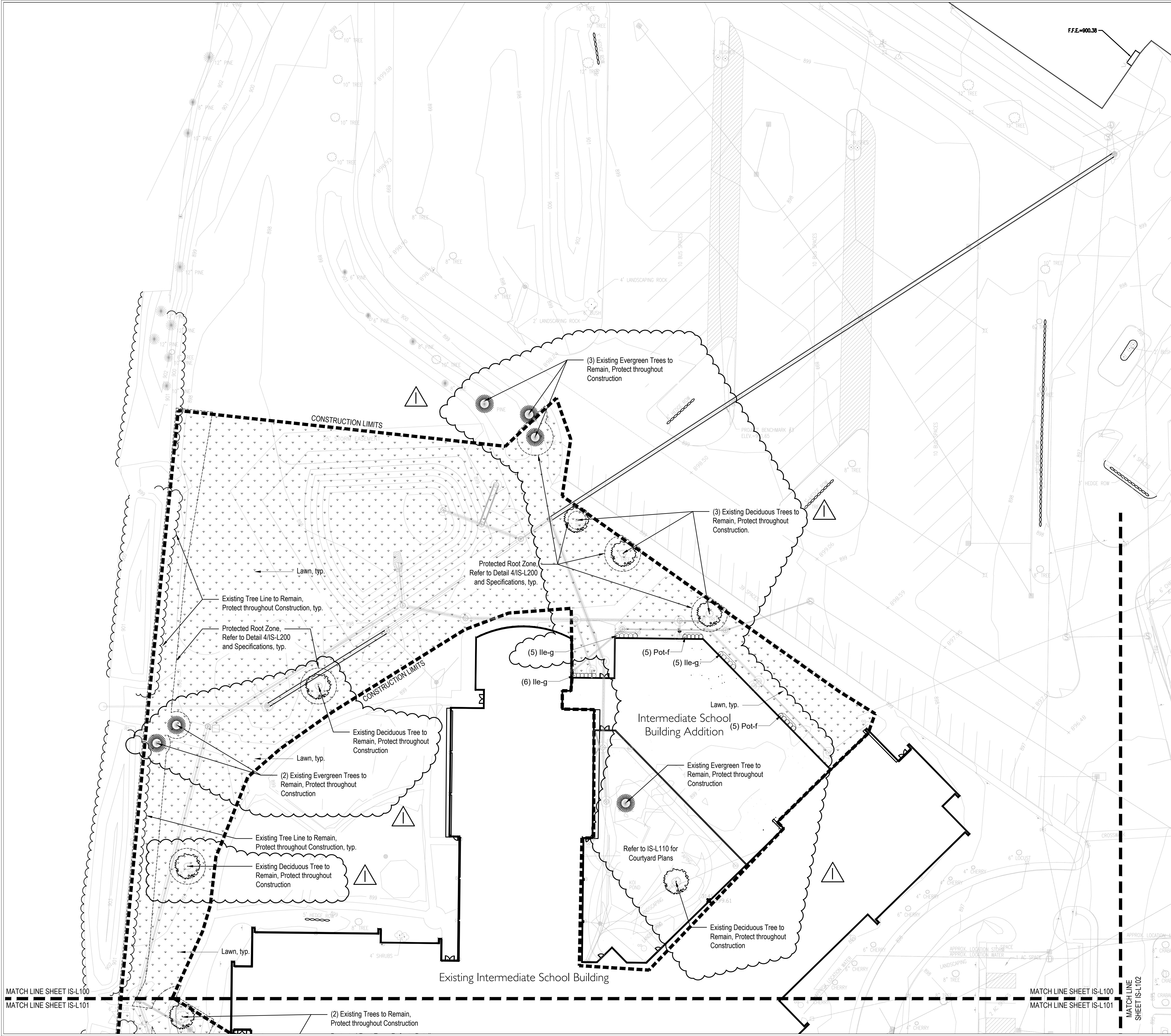


JOHN E. RIGGSBEE
REGISTERED
No.
920019
STATE OF
INDIANA
ARCHITECT

John E. Riggsbee

DRAWING NUMBER
IS-A311

PROJECT NUMBER
17075



GENERAL LANDSCAPE AND PLANTING NOTES

1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
2. All materials are subject to the approval of the Landscape Architect and Owner at any time. Landscape Architect to inspect all plant locations and plant bed conditions prior to installation. On-site adjustments may be required.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
4. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
5. Plant counts indicated on drawings are for Landscape Architect's use only. Contractor shall make own plant quantity takeoffs using drawings, specifications, and plant schedule requirements (i.e., spacing), unless otherwise directed by Landscape Architect. Contractor to verify bed measurements and install appropriate quantities as governed by plant spacing per schedule. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
6. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement or planting bed.
7. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
8. All tree locations shall be marked with 2x2" stakes prior to planting for review and approval by the Landscape Architect. Any plant material installed in an incorrect location, by the judgment of the Landscape Architect, shall be reinstalled at the Contractor's expense.
9. All plant beds shall receive 3" minimum of shredded hardwood bark mulch (unless otherwise noted).
10. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to Owner's satisfaction at no additional cost.
11. The Contractor shall maintain all plant material and lawns until the project is fully accepted by the Landscape Architect, unless otherwise noted.
12. All workmanship and materials shall be guaranteed by the Contractor for a period of one calendar year after Final Acceptance.
13. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work.
14. Contractor shall test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using tree pit drainage.
15. Tree Protection Fencing is the responsibility of the Contractor. Minimum protected area shall include the full drip line of the canopy. NO construction activities, material storage, etc. may occur within that area. The Contractor shall ensure that no soil compaction or tree damage occurs in any Protected areas, at any time during the construction process.
16. Trees shall be matched in groups unless otherwise noted.



CSO Architects
ARCHITECTURE • INTERIOR DESIGN

8831 Keystone Crossing • Indianapolis, IN 46240
Main 317.948.7800 • Fax 317.574.0937 • csoinc.net

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context
DESIGN

12 S Main St, Ste 200 | Fortville, IN 46040
317-465-6900 | www.context-design.com

PROJECT:

**Westfield Intermediate School
Additions and Renovations**

326 WEST MAIN STREET WESTFIELD, INDIANA 46074

FOR:

Westfield Washington School Corp.

SCOPE DRAWINGS:

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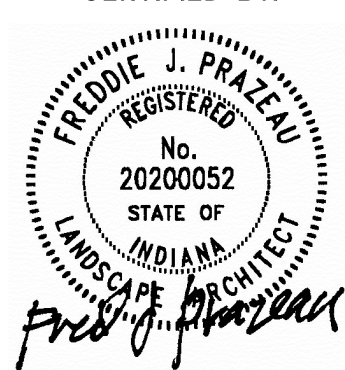
| REVISIONS: | | |
|---|--------------|----------|
| Permit Review Set | | 12/22/17 |
|  | TAC Comments | 02/15/18 |

| ISSUE DATE | DRAWN BY | CHECKED BY |
|------------|----------|------------|
| 12/22/17 | KP/DF | GW |

DRAWING TITLE:

**Perimeter
Planting Plan**

CERTIFIED BY:



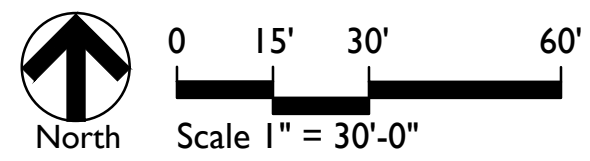
Freddie J. Prioleau

DRAWING NUMBER

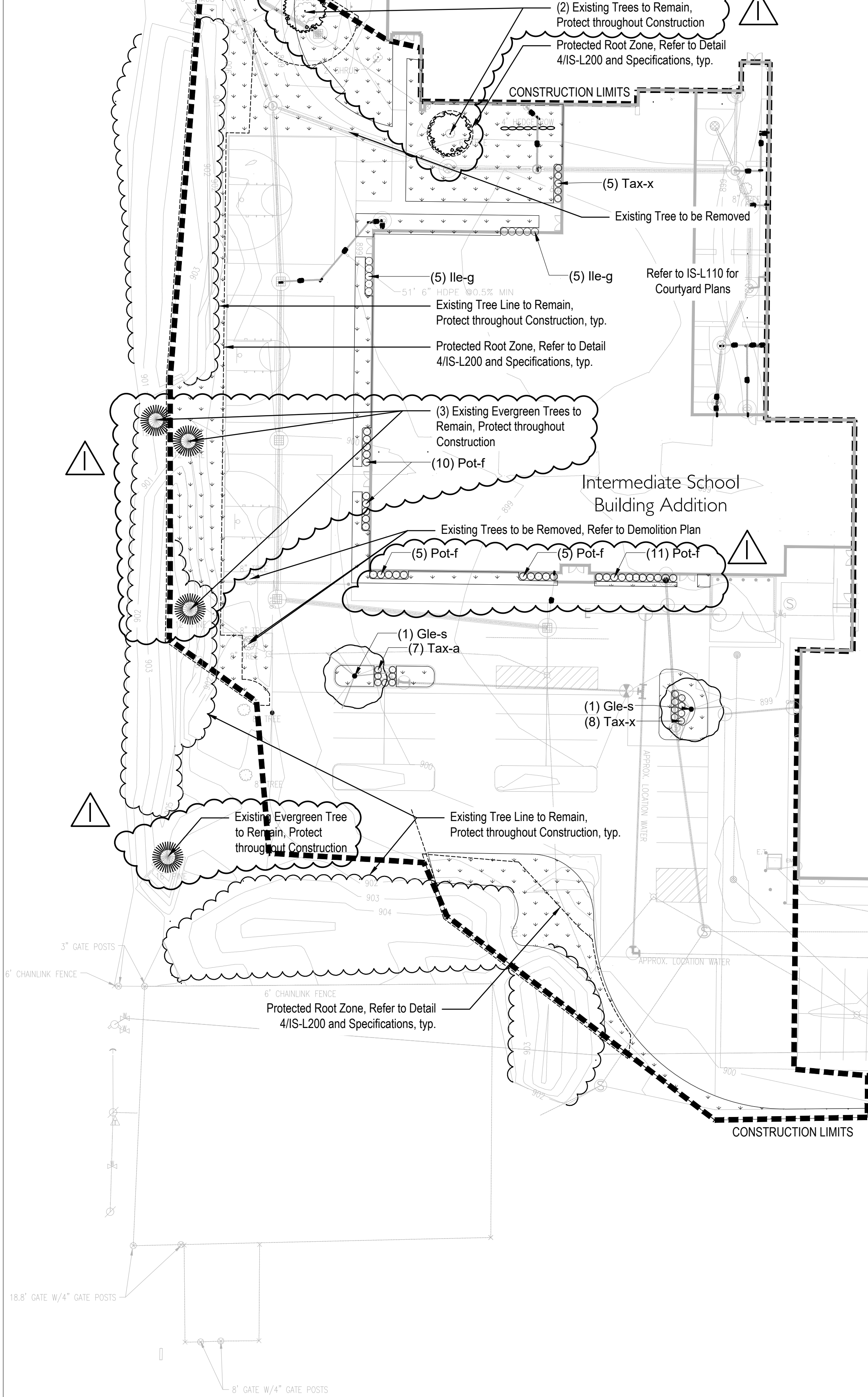
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PROJECT NUMBER

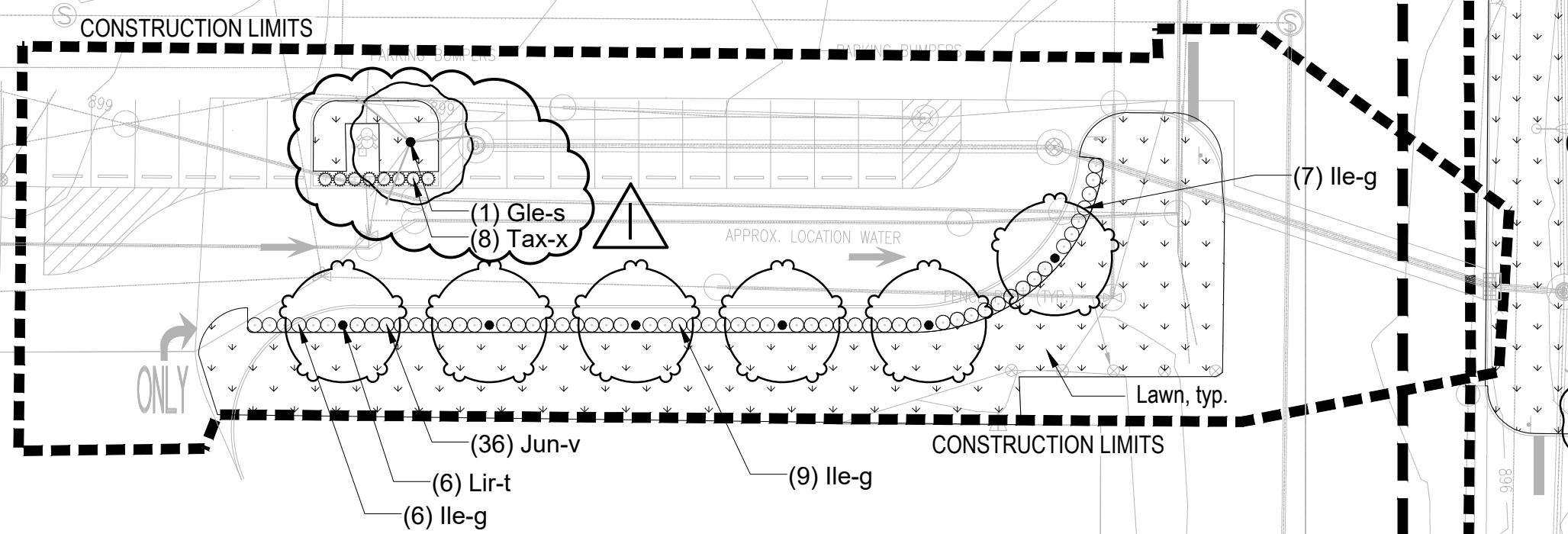
17075



MATCH LINE SHEET IS-L100
MATCH LINE SHEET IS-L101



Existing Intermediate
School Building



GENERAL LANDSCAPE AND PLANTING NOTES

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317-465-6900 | www.context-design.com

PROJECT: **Westfield Intermediate School
Additions and Renovations**
326 WEST MAIN STREET WESTFIELD, INDIANA 46074
FOR: **Westfield Washington School Corp.**

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REVISIONS:
Permit Review Set 12/22/17
TAC Comments 02/15/18

ISSUE DATE 12/22/17
DRAWN BY KP/DF
CHECKED BY GW

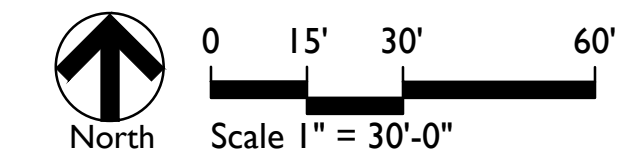
DRAWING TITLE:
**Perimeter
Planting Plan**

CERTIFIED BY:
FREDIE J. PRILETU
REGISTERED
No. 20200052
STATE OF INDIANA
LANDSCAPE ARCHITECT
Fred J. Priletu

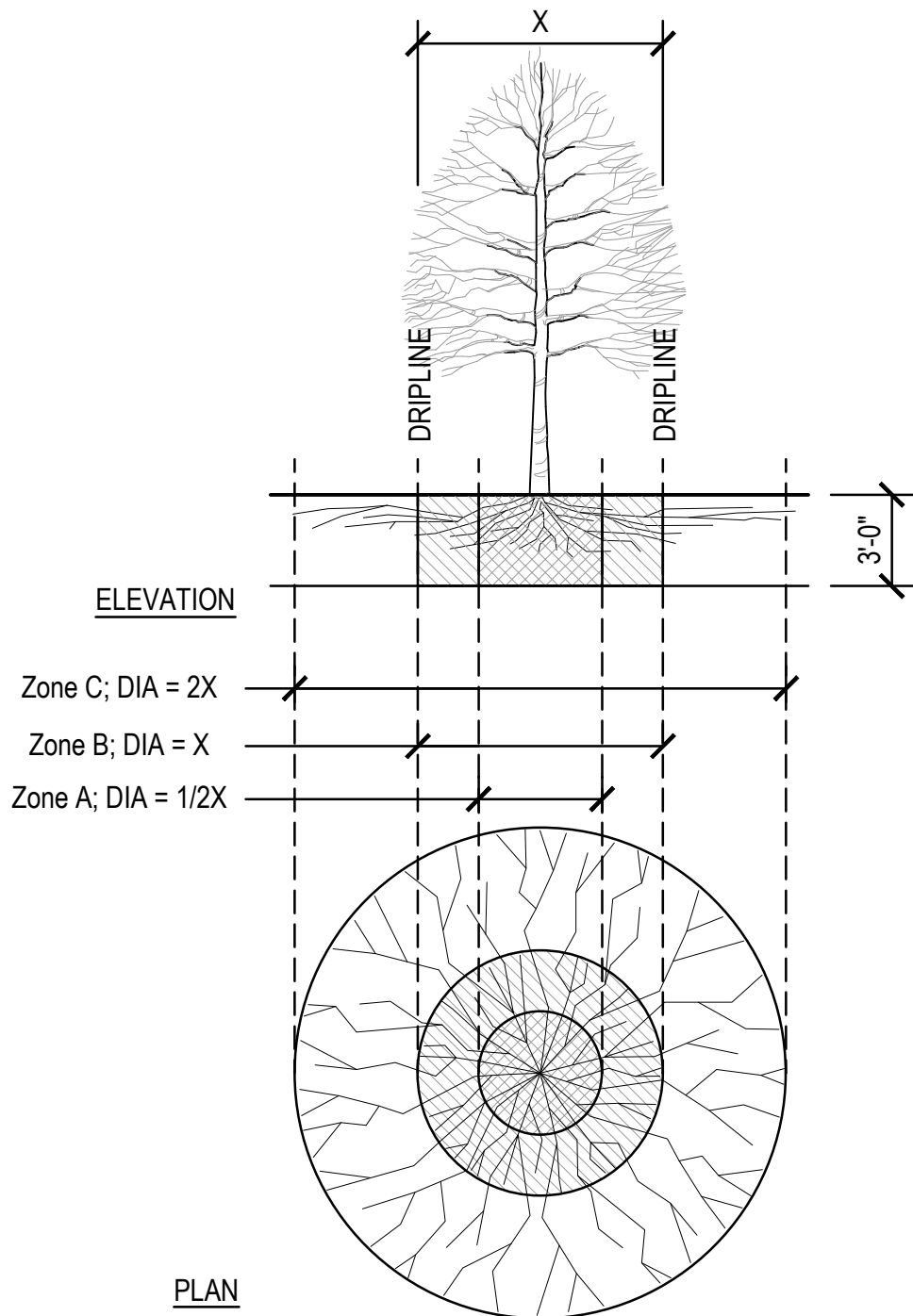
DRAWING NUMBER
IS-L101

PROJECT NUMBER
17075

North
Scale 1" = 30'-0"



| PERIMETER PLANT SCHEDULE | | | | | | |
|--------------------------|-----|---|-----------------------------------|-----------|------------|---|
| TREES | QTY | BOTANICAL NAME | COMMON NAME | CONT | CAL | REMARKS |
| Gle-s | 3 | Gleditsia triacanthos inermis 'Shademaster' | Shademaster Thornless Honeylocust | B & B | 2"Cal | full, strong central leader, matched |
| Gle-a | 16 | Gleditsia triacanthos inermis 'Shademaster' - Alternate | Shademaster Thornless Honeylocust | B & B | 2"Cal | full, strong central leader, matched; Alternate |
| Lir-t | 6 | Liriodendron tulipifera | Tulip Tree | B & B | 2"Cal | full, strong central leader, matched |
| Til-a | 9 | Tilia americana 'Boulevard' Alternate | Boulevard Linden Alternate | B & B | 2"Cal | full, strong central leader, matched; Alternate |
| | | | | | | |
| SHRUBS | QTY | BOTANICAL NAME | COMMON NAME | SIZE | HEIGHT | REMARKS |
| Ile-g | 83 | Ilex glabra 'Chamzin' TM | Nordic Holly | container | 24" | space @ 3'-0" o.c. |
| Jun-v | 36 | Juniperus virginiana 'Grey Owl' | Grey Owl Juniper | container | 18" spread | space @ 3'-0" o.c., allow to mass |
| Jun-a | 36 | Juniperus virginiana 'Grey Owl' Alternate | Grey Owl Juniper Alternate | container | 18" spread | space @ 3'-0" o.c., allow to mass; Alternate |
| Pot-f | 41 | Potentilla fruticosa 'Goldfinger' | Goldfinger Potentilla | container | 24" | space @ 3'-0" o.c. |
| Pot-a | 21 | Potentilla fruticosa 'Goldfinger' Alternate | Goldfinger Potentilla Alternate | container | 24" | space @ 3'-0" o.c.; Alternate |
| Tax-x | 21 | Taxus x media 'Densiformis' | Dense Yew | container | 24" | space @ 3'-0" o.c., allow to mass |
| Tax-a | 54 | Taxus x media 'Densiformis' Alternate | Dense Yew Alternate | container | 24" | space @ 3'-0" o.c., allow to mass; Alternate |



4 TREE PROTECTION

Not To Scale

FENCING/ROOT PROTECTION
Provide 6' high chain link fencing at Zone B (Dripline) minimum, and at Zone C (Feeder Root Zone) if possible.

Upon Landscape Architect's approval, a plywood box (8' minimum height) may be used where fencing cannot be achieved.

Landscape Architect's approval required for use/access within Zone B. Permission for use/access requires Surface Protection for all unfenced, unpaved surfaces within Zone B.

- *SURFACE PROTECTION MEASURES**
- Mulch Layer, 6"-8" Depth
 - 3/4" Plywood
 - Steel Plates

TRENCHING/EXCAVATION

ZONE A (CRITICAL ROOT ZONE)

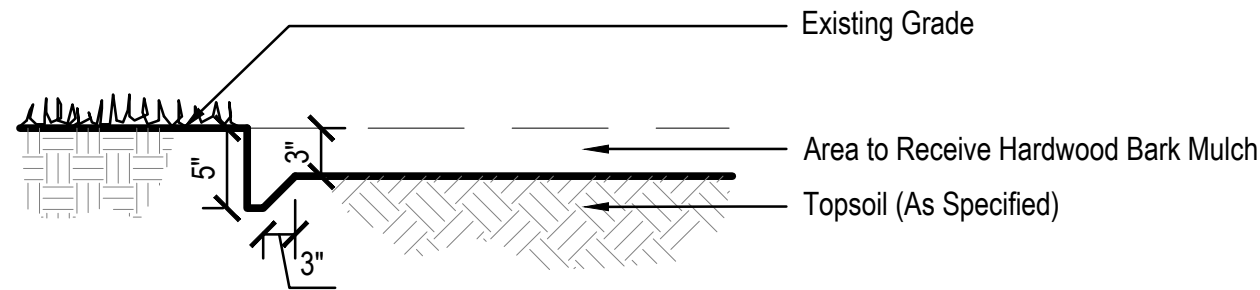
- No disturbance allowed without site-specific inspection and approval of methods to minimize root damage.
- Severance of roots larger than 2" diameter requires Landscape Architect's approval.
- Tunneling or boring required to install utilities 3'-0" below grade or deeper.

ZONE B (DRIPLINE)

- Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
- Trenching allowed as follows:
 - Excavation by hand or with hand-driver trencher may be required.
 - Limit trench width. Do not disturb Zone A, maintain 2/3 or more of Zone B in undisturbed condition.
- Tunneling or boring may be required for trenches deeper than 3'-0".

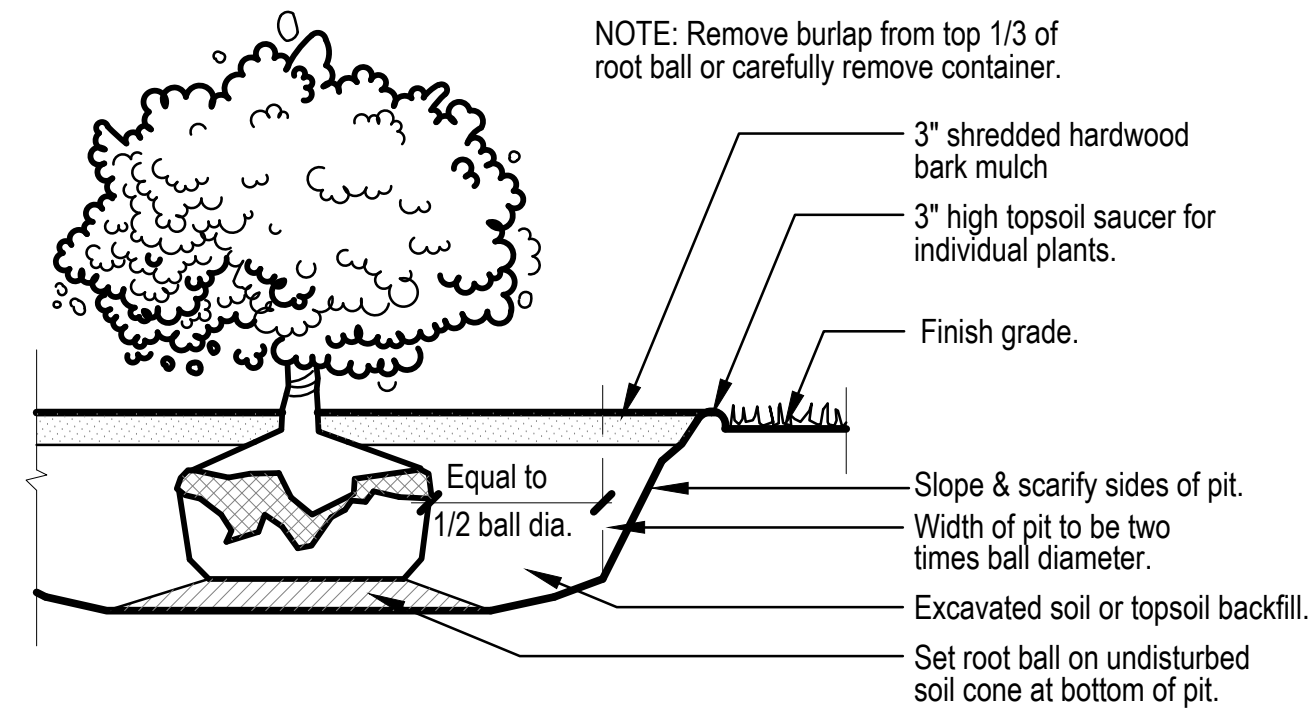
ZONE C (FEEDER ROOT ZONE)

- Operation of heavy equipment and/or stockpiling of materials subject to Landscape Architect's approval. Surface Protection* measures required.
- Trenching with heavy equipment allowed as follows:
 - Minimize trench width.
 - Maintain 2/3 or more of Zone C in undisturbed condition.



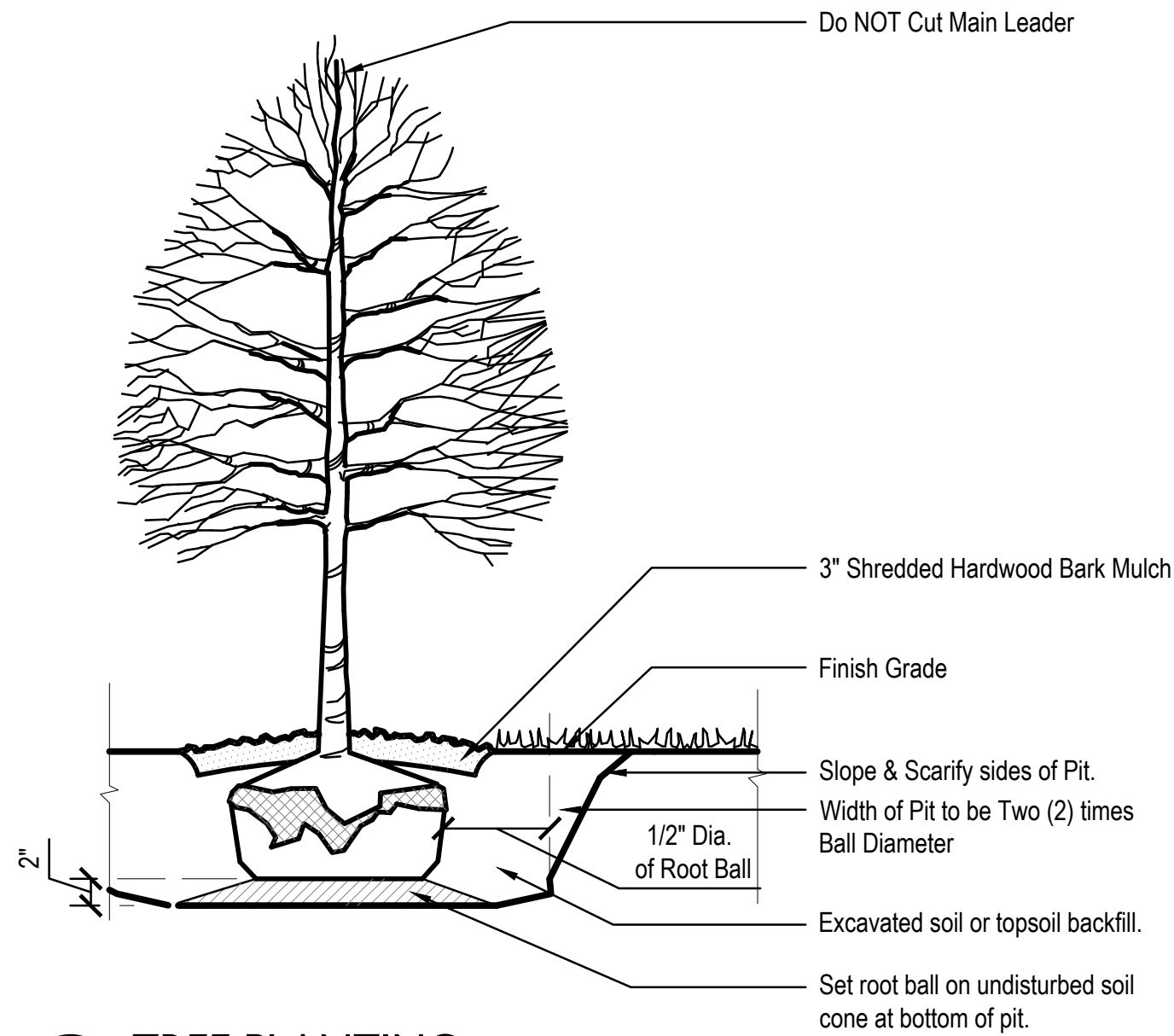
3 SPADE EDGE

Not to Scale



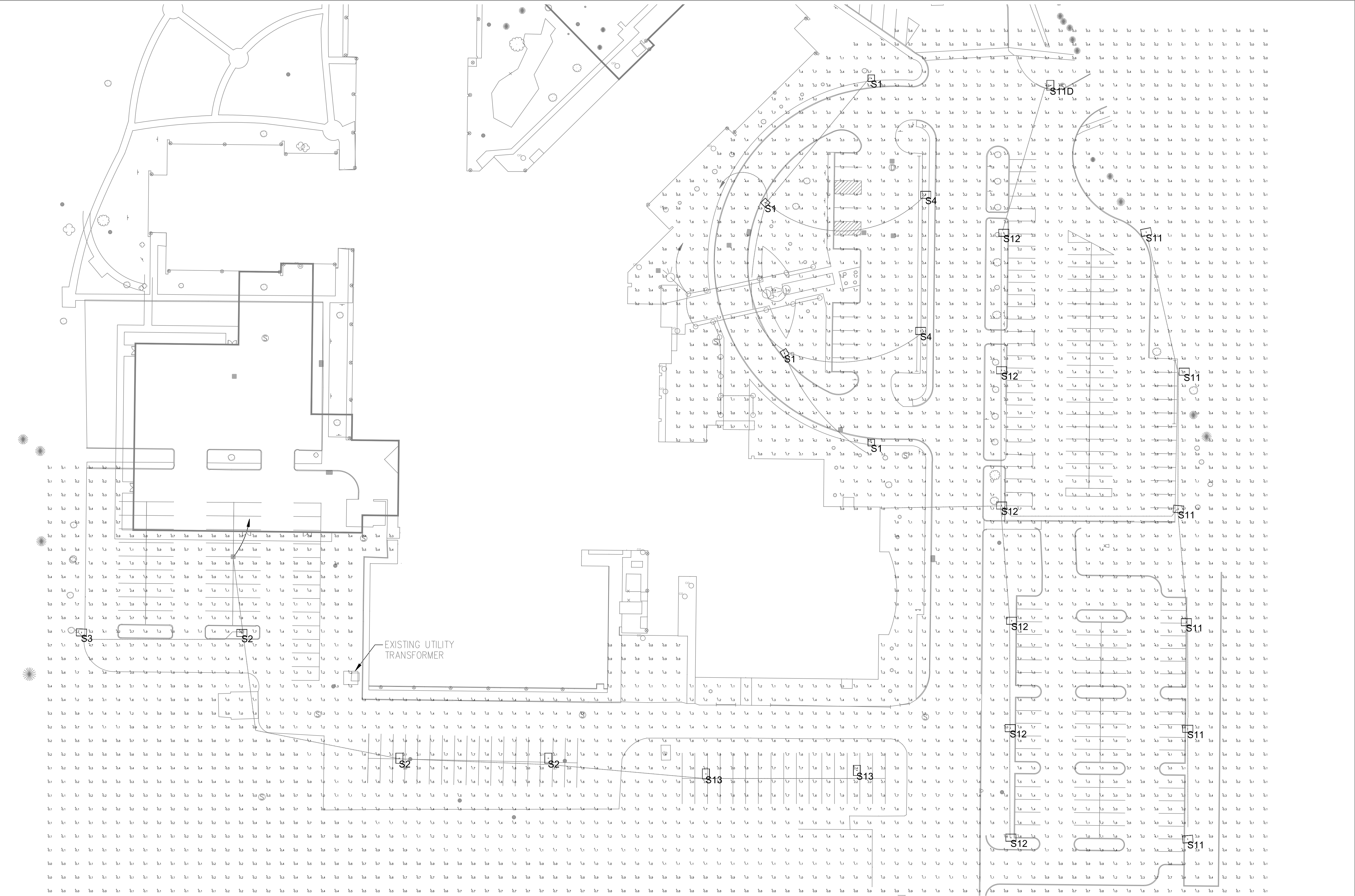
2 SHRUB PLANTING

Not to Scale



1 TREE PLANTING

Not to Scale



| Luminaire Schedule | | | | | | |
|--------------------|-----|-------|-------------|-------------|-------|--|
| Symbol | Qty | Label | Arrangement | Lum. Lumens | LLF | Description |
| | 4 | S1 | SINGLE | 24001 | 0.920 | DSX2 LED P2 40K T2M MVOLT / 25FT POLE |
| | 1 | S3 | SINGLE | 23364 | 0.920 | DSX2 LED P2 40K T3M MVOLT / 25FT POLE |
| | 1 | S1D | SINGLE | 18933 | 0.920 | DSX2 LED P2 40K T3M MVOLT HS / 25FT POLE |
| | 3 | S2 | SINGLE | 39138 | 0.920 | DSX2 LED P5 40K T5W MVOLT / 40FT POLE |
| | 2 | S4 | SINGLE | 39138 | 0.920 | DSX2 LED P5 40K T5W MVOLT / 40FT POLE |
| | 8 | S12 | SINGLE | 24805 | 0.920 | DSX2 LED P2 40K T4M MVOLT / 25FT POLE |
| | 6 | S11 | SINGLE | 18272 | 0.920 | DSX2 LED P2 40K T4M MVOLT HS / 25FT POLE |
| | 2 | S13 | SINGLE | 39138 | 0.920 | DSX2 LED P5 40K T5W MVOLT / 40FT POLE |

| Calculation Summary | | | | | | |
|---------------------|-----------|-------|------|-----|-----|--------|
| Label | CalcType | Units | Avg | Max | Min | AvgMin |
| CalcPis_1 | illumance | Fc | 1.41 | 5.8 | 0.0 | N.A. |
| PAVED AREAS | illumance | Fc | 1.99 | 5.6 | 0.4 | 4.88 |

General Notes

GENERAL PLAN NOTES:

- MH: VARIES
- POINTS CALCULATED AT: GRADE
- LIGHT LOSS FACTOR: AS NOTED

| | | |
|-----|----------------|------|
| | | |
| No. | Revision/Issue | Date |

Firm Name and Address



Project Name and Address

**WESTFIELD
INTERMEDIATE
SCHOOL**

Drawn By

KLS

Date

12/20/2017

Scale

ViewportScale

Sheet

E101

Drawing #

LS-17-1205-R1



LIGHT SOURCE
8719 CASTLE PARK DR
INDIANAPOLIS, IN 46256-1272
Phone: 317-598-6900
Fax: 317-598-6910
Contact: Bishop, Dan

Westfield Intermediate School

17-49300-0

12/21/2017

| Type | Manufacturer/Brand | Catalog Number |
|------|-----------------------|--|
| S1 | ABL-Lithonia Lighting | DSX2 LED P2 40K T2M MVOLT
RPUMBA DDBXD |
| S3 | ABL-Lithonia Lighting | DSX2 LED P2 40K T3M MVOLT
RPUMBA DDBXD |
| S11D | ABL-Lithonia Lighting | DSX2 LED P2 40K T3M MVOLT HS
RPUMBA DDBXD |
| S2 | ABL-Lithonia Lighting | DSX2 LED P5 40K T5W MVOLT
RPUMBA DDBXD |
| S4 | ABL-Lithonia Lighting | DSX2 LED P5 40K T5W MVOLT
RPUMBA DDBXD |
| S12 | ABL-Lithonia Lighting | DSX2 LED P2 40K T5W MVOLT
RPUMBA DDBXD |
| S11 | ABL-Lithonia Lighting | DSX2 LED P2 40K T4M MVOLT HS
RPUMBA DDBXD |
| S13 | ABL-Lithonia Lighting | DSX2 LED P5 40K T5W MVOLT
RPUMBA DDBXD |

| | | | |
|---|--|--|-------------------|
| LIGHT SOURCE
<small>THE LIGHTING SPECIALIST</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S1 |
|---|--|--|-------------------|

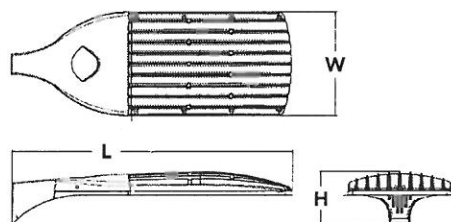


D-Series Size 2 LED Area Luminaire



Specifications

| | |
|---------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.4 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



Catalog Number

Notes

Type

See also the Acuity Brands website for the range of all other product information.

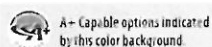
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | P2 | 40K | | T2M | | MVOLT RPUMBA | | |
|-------------------|--|-----|---|----------------------|--------------|------------------------------------|---|-----------------------------------|---|
| Series | LEDs | | Color temperature | | Distribution | | Voltage | Mounting | |
| DSX2 LED | Forward optics | | 30K | 3000 K | T1S | Type I Short | TSVS | Type V Very Short | |
| | P1 | P5 | 40K | 4000 K | T2S | Type II Short | TSS | Type V Short | |
| | P2 | P6 | 50K | 5000 K | T2M | Type II Medium | TSM | Type V Medium | |
| | P3 | P7 | AMBPC Amber phosphor converted ^{1,2} | | T3S | Type III Short | TSW | Type V Wide | |
| | P4 | P8 | | | T3M | Type III Medium | BLC | Backlight control ^{2,3} | |
| | Rotated optics ¹ | | | | T4M | Type IV Medium | LCCO | Left corner cutoff ^{2,3} | |
| | P10 | P13 | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ^{2,3} | | | |
| | P11 | P14 | | | | | | | |
| | P12 | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | MVOLT ⁴ | Shipped included | CONFIRM MOUNTING |
| | | | | | | | 120 ⁵ | SPA | Square pole mounting |
| | | | | | | | 208 ⁵ | RPA | Round pole mounting |
| | | | | | | | 240 ⁵ | WBA | Wall bracket |
| | | | | | | | 277 ⁵ | SPUMBA | Square pole universal mounting adaptor ⁷ |
| | | | | | | | 347 ^{5,6} | RPUMBA | Round pole universal mounting adaptor ⁷ |
| | | | | | | | 480 ^{5,6} | Shipped separately | |
| | | | | | | | | KMA8 DDBXD U | Must arm mounting bracket adaptor (specify finish) ⁸ |
| | | | | | | | | | DDBXD |
| Control options | | | | | | Other options | | Finish options | |
| Shipped installed | | | | | | Shipped installed | | | |
| PER | NEMA twist-lock receptacle only (no controls) ² | | | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1ft ¹³ | | |
| PER5 | Five-wire receptacle only (no controls) ^{1,10} | | | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | | |
| PER7 | Seven-wire receptacle only (no controls) ^{1,10} | | | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | | |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | | | PNMTDD3 | Part night, dim till dawn ¹⁵ | | |
| | | | | | | PNMT5D3 | Part night, dim 5 hrs ¹⁵ | | |
| DS | Dual switching ^{1,12} | | | | | PNMT6D3 | Part night, dim 6 hrs ¹⁵ | | |
| PIRH | Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5ft ¹³ | | | | | PNMT7D3 | Part night, dim 7 hrs ¹⁵ | | |
| | | | | | | FAO | Field Adjustable Output ¹⁶ | | |
| | | | | | | HS | House-side shield ¹⁷ | | |
| | | | | | | SF | Single fuse (120, 277, 347V) ⁷ | | |
| | | | | | | DF | Double fuse (208, 240, 480V) ⁷ | | |
| | | | | | | L90 | Left rotated optics ¹ | | |
| | | | | | | R90 | Right rotated optics ¹ | | |
| | | | | | | BS | Bird spikes | | |
| | | | | | | DDBXD | Dark bronze | | CONFIRM FINISH |
| | | | | | | DBBXD | Black | | |
| | | | | | | DNAXD | Natural aluminum | | |
| | | | | | | DWHXD | White | | |
| | | | | | | DDBTXD | Textured dark bronze | | |
| | | | | | | DBLBXD | Textured black | | |
| | | | | | | DNATXD | Textured natural aluminum | | |
| | | | | | | DWHGXD | Textured white | | |



Ordering Information

Accessories

Ordered and shipped separately

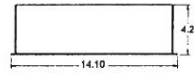
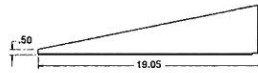
| | |
|---------------------|--|
| DL1171 1.5 JU | Photocell - SSL twist-lock (120-277V) 1/4" |
| DL1347F 1.5 (UL) JU | Photocell - SSL twist-lock (347V) 1/4" |
| DL1480F 1.5 (UL) JU | Photocell - SSL twist-lock (480V) 1/4" |
| DSH08T 58K U | Shorting cap 1/4" |
| DSX2HS 80C U | House-side shield for 80 LED unit 1/4" |
| DSX2HS 90C U | House-side shield for 90 LED unit 1/4" |
| DSX2HS 100C U | House-side shield for 100 LED unit 1/4" |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) 1/4" |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) 1/4" |

For more control options, visit www.lithonia.com and www.lightsource.com

NOTES

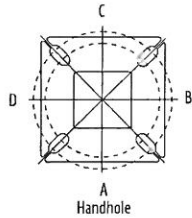
- 1 P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- 2 AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- 3 Not available with HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Not available with BL30, BL50 or PNMT options.
- 7 Existing drilled pole only. Available as a separate combination accessory for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- 8 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- 10 If ROAIV® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- 11 Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- 12 Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- 13 Reference Motion Sensor table on page 3.
- 14 Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- 15 Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- 16 Not available with other dimming controls options.
- 17 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 18 Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 19 For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single tenon | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

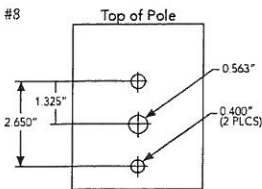
| Pole drilling nomenclature: # of hands at degree from handhole (default side A) | | | | | |
|---|-------------|-------------|-----------------|-----------------|------------------|
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Sides B & D | Sides B & C | Round pole only | Sides B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" @ 90° | 4" @ 90° | 3.5" @ 90° | 3" @ 90° | 2.5" @ 120° | 2" @ 120° | 1.5" @ 120° | 1" @ 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #8



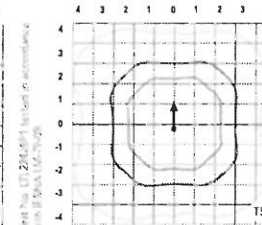
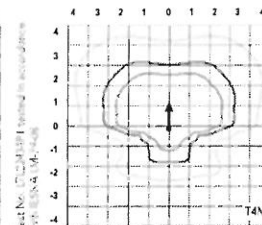
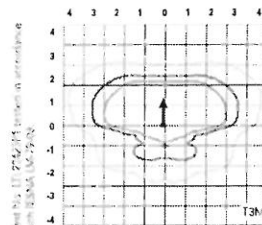
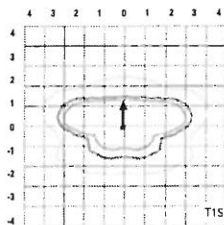
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's www.lithonia.com or www.lightsource.com.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



| | | | |
|---|--|--|--------------------------|
| LIGHT SOURCE
<small>THE LIGHTING EXPERT</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S1 |
|---|--|--|--------------------------|

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Electrical Load

| | | | | | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|----------------|---------|-------------|------|------|------|------|------|
| | Performance Package | LED Count | Driver Current | Wattage | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Motion Sensor Default Settings

| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
|------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

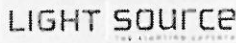
PER Table

| Control | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|
| | | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 4/Wire 5 | Wire 6/Wire 7 |
| Photocontrol Only (On/Off) | ✓ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver |
| ROAM | ⊘ | ✓ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver |
| ROAM with Motion (ROAM on/off only) | ⊘ | ⚠ | Wires Capped inside fixture | ⚠ | Wires Capped inside fixture |
| Future-proof* | ⊘ | ⚠ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver |
| Future-proof* with Motion | ⊘ | ⚠ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture |

| |
|---------------|
| ✓ Recommended |
| ⊘ Not used |
| ⚠ Alternative |

*Future-proof means: Ability to change controls in the future.



| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD | Type
S1 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|-------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,515 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFM | 22,328 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,222 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,726 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,773 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,332 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,776 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,761 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | | | | | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| BLC | 25,412 | 2 | 0 | | | | | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | |
| LCCO | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |
| | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |



| | | | |
|--|--|--|-------------------|
| LIGHT SOURCE
<small>THE LIGHTING SPECIALISTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S1 |
|--|--|--|-------------------|

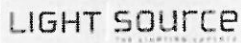
Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBIC (Ambi-Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,222 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFIM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 | 1 | 0 | 1 | 70 |
| | | | | T2S | 37,784 | 4 | 0 | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| | | | | T2M | 37,979 | 4 | 0 | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| | | | | T3S | 36,780 | 4 | 0 | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| | | | | T3M | 37,886 | 3 | 0 | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| | | | | T4M | 37,063 | 4 | 0 | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| | | | | TFIM | 37,863 | 3 | 0 | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| | | | | TSVS | 39,370 | 5 | 0 | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| | | | | TSS | 39,411 | 5 | 0 | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| | | | | TSM | 39,311 | 5 | 0 | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| | | | | TSW | 39,053 | 5 | 0 | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| | | | | BLC | 31,043 | 3 | 0 | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| | | | | LCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | | | | | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFIM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | | | | | |
| | | | | T2S | 45,562 | 4 | 0 | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 45,797 | 4 | 0 | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T3S | 44,352 | 4 | 0 | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| | | | | T3M | 45,686 | 4 | 0 | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T4M | 44,693 | 4 | 0 | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| | | | | TFIM | 45,657 | 4 | 0 | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| | | | | TSVS | 47,485 | 5 | 0 | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| | | | | TSS | 47,524 | 5 | 0 | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| | | | | TSM | 47,404 | 5 | 0 | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| | | | | TSW | 47,093 | 5 | 0 | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| | | | | BLC | 37,434 | 3 | 0 | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| | | | | LCCO | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |



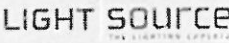
| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD | Type
S1 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,742 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 136 | 21,812 | 5 | 0 | 5 | 140 | 11,410 | 4 | 0 | 4 | 76 |
| | | | | FTM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 82 |
| | | | | ISS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 | 3 | 0 | 3 | 70 |
| | | | | T2S | 25,371 | 5 | 0 | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| | | | | T2M | 25,829 | 4 | 0 | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| | | | | T3S | 24,977 | 5 | 0 | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| | | | | T3M | 25,814 | 5 | 0 | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| | | | | T4M | 25,327 | 5 | 0 | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| | | | | FTM | 25,981 | 5 | 0 | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| | | | | TSVS | 26,164 | 5 | 0 | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| | | | | TSS | 25,943 | 4 | 0 | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| | | | | TSM | 25,937 | 5 | 0 | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| | | | | TSW | 25,704 | 5 | 0 | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| | | | | BLC | 21,339 | 4 | 0 | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| | | | | LCCO | 15,240 | 2 | 0 | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 15,220 | 5 | 0 | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | | | | | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,778 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | FTM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | | | | | |
| | | | | T2S | 38,545 | 5 | 0 | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| | | | | T2M | 39,241 | 5 | 0 | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T3S | 37,947 | 5 | 0 | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| | | | | T3M | 39,218 | 5 | 0 | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T4M | 38,478 | 5 | 0 | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| | | | | FTM | 39,472 | 5 | 0 | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| | | | | TSVS | 39,749 | 5 | 0 | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| | | | | TSS | 39,415 | 5 | 0 | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| | | | | TSM | 39,405 | 5 | 0 | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| | | | | TSW | 39,052 | 5 | 0 | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| | | | | BLC | 32,419 | 5 | 0 | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| | | | | LCCO | 23,154 | 3 | 0 | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,124 | 5 | 0 | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | FTM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 3 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|---|---|---|------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T2M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S1 |
|---|---|---|------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 l/h) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.lithonia.com/resources/warranty-and-conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



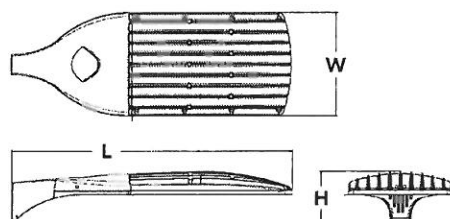


D-Series Size 2 LED Area Luminaire



Specifications

EPA: 1.1 ft²
(0.10 m²)
Length: 40"
(101.6 cm)
Width: 15"
(38.1 cm)
Height: 7-1/4"
(18.4 cm)
Weight (max): 36 lbs
(16.3 kg)



Catalog
Number

Notes

Type

For more information, please visit the website to see all product specifications.

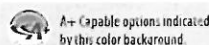
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | P2 | 40K | T3M | MVOLT RPUMBA | | |
|--------------------------|--|---|---------------------------|--|----------------------------------|--|
| Series | LEDs | Color temperature | Distribution | Voltage | Mounting | |
| DSX2 LED | Forward optics | 30K 3000 K | T1S Type I Short | TSVS Type V Very Short | MVOLT ⁴ | Shipped included CONFIRM MOUNTING |
| | P1 P5 | 40K 4000 K | T2S Type II Short | TSS Type V Short | 120 ⁵ | SPA Square pole mounting |
| | P2 P6 | 50K 5000 K | T2M Type II Medium | TSM Type V Medium | 208 ⁵ | RPA Round pole mounting |
| | P3 P7 | AMBPC Amber phosphor converted ^{1,3} | T3S Type III Short | TSW Type V Wide | 240 ⁵ | WBA Wall bracket |
| | P4 P8 | | T3M Type III Medium | BLC Backlight control ^{1,3} | 277 ⁵ | SPUMBA Square pole universal mounting adaptor ⁷ |
| | Rotated optics¹ | | T4M Type IV Medium | LCCO Left corner cutoff ^{1,3} | 347 ^{5,6} | RPUMBA Round pole universal mounting adaptor ⁷ |
| | P10 P13 | | TFTM Forward Throw Medium | RCCO Right corner cutoff ^{1,3} | 480 ^{5,6} | Shipped separately |
| | P11 P14 | | | | | KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁸ |
| | P12 | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| DDBXD | | | | | | |
| Control options | | | | Other options | Finish options | |
| Shipped installed | | | | Shipped installed | CONFIRM FINISH | |
| PER | NEMA twist-lock receptacle only (no controls) ¹ | | | HS House-side shield ¹⁰ | DDBXD Dark bronze | |
| PERS | Five-wire receptacle only (no controls) ^{1,6} | | | SF Single fuse (120, 277, 347V) ⁷ | DBBXD Black | |
| PER7 | Seven-wire receptacle only (no controls) ^{1,10} | | | DF Double fuse (208, 240, 480V) ⁷ | DNAXD Natural aluminum | |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | L90 Left rotated optics ¹ | DWHXD White | |
| DS | Dual switching ^{1,12} | | | R90 Right rotated optics ¹ | DDBTXD Textured dark bronze | |
| PIRH | Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5fc ¹³ | | | BS Bird spikes | DBLBXD Textured black | |
| | | | | | DNATXD Textured natural aluminum | |
| | | | | | DWHGXD Textured white | |

| | | | |
|--|--|--|-------------------|
| LIGHT SOURCE
<small>THE CLIPPING EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T3M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S3 |
|--|--|--|-------------------|

Ordering Information

Accessories

Ordered and shipped separately

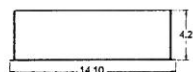
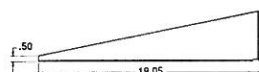
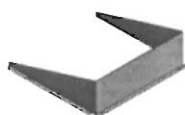
| | |
|-------------------|---|
| DL127 1.5 JU | Photocell - 55' twist-lock (170-277V) ¹⁰ |
| DL1347 1.5 CUL JU | Photocell - 55' twist-lock (347V) ¹⁰ |
| DL1400 1.5 CUL JU | Photocell - 55' twist-lock (180V) ¹⁰ |
| DSHORT SBK U | Shorting cap ¹⁰ |
| DSKHS 80C U | House-side shield for 80 LED unit ⁴ |
| DSKHS 90C U | House-side shield for 90 LED unit ⁴ |
| DSKHS 100C U | House-side shield for 100 LED unit ⁴ |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) ¹⁰ |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ¹² |

For more control options, visit [T5](#) and [T3M](#) online

NOTES

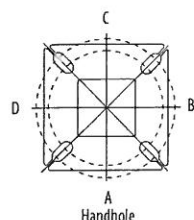
- P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only. PUMBA (finish) U, 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

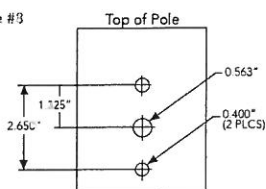
| Slipfitter Size | Slipfitter Depth | 3.41 100' | 3.41 100' | 3.41 100' | 3.41 100' | 3.41 100' |
|-----------------|------------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of heads at degree from handhole (default side A)

| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|------------|------------|-----------------|----------------|------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

Template #3



| Slipfitter or Tenon Size | 4.5" @ 90° | 4" @ 90° | 3.5" @ 90° | 3" @ 90° | 4.5" @ 120° | 4" @ 120° | 3.5" @ 120° | 3" @ 120° |
|--------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

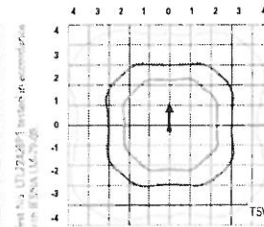
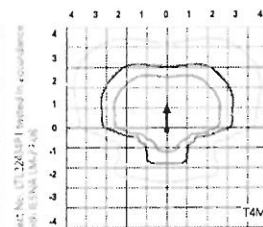
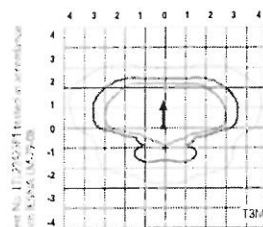
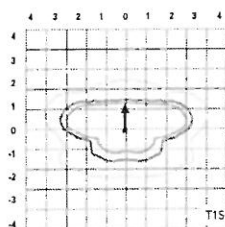
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's 3D-Scene Area Site 2 homepage](#).

Isfootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](#)
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DSX2-LED
Rev. 10/25/17
Page 2 of 7

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.94 | 0.92 | 0.85 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*For use with Inline Dusk to Dawn or timer.

| PER Table | | | | | |
|-------------------------------------|--------------|----------------------------------|----------------------------------|-----------------------------|-----------------------------|
| Control | PER (3 wire) | PER5 (5 wire) | | PER7 (7 wire) | |
| | | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 4/Wire 5 | Wire 6/Wire 7 |
| Photocontrol Only (On/Off) | ✓ | Wired to dimming leads on driver | Wired to dimming leads on driver | Wires Capped inside fixture | Wires Capped inside fixture |
| ROAM | ⊗ | Wired to dimming leads on driver | Wired to dimming leads on driver | Wires Capped inside fixture | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊗ | Wires Capped inside fixture | Wires Capped inside fixture | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊗ | Wired to dimming leads on driver | Wired to dimming leads on driver | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* with Motion | ⊗ | Wires Capped inside fixture | Wires Capped inside fixture | Wires Capped inside fixture | Wires Capped inside fixture |

- ✓ Recommended
- ⊗ Will not work
- ⚠ Alternate

*Future-proof means: Ability to change controls in the future.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

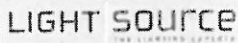
| Forward Optics | | | | | | | | | | | | | | | | | | | |
|----------------|--------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|
| LED Count | Beam Current | Power Package | System Watts | Dist. Type | 50K (5000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 30K (3000 K, 70 CRI) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 |
| | | | | BLC | 14,474 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 |
| | | | | T1S | 27,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 |
| 80 | 700 | P2 | 185W | T2S | 22,281 | 3 | 0 | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 |
| | | | | T2M | 27,396 | 3 | 0 | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 |
| | | | | T3S | 21,690 | 3 | 0 | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 |
| | | | | T3M | 22,342 | 3 | 0 | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 |
| | | | | T4M | 21,857 | 3 | 0 | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 |
| | | | | TFTM | 22,328 | 3 | 0 | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 |
| | | | | TSVS | 23,222 | 5 | 0 | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 |
| | | | | TSS | 23,241 | 4 | 0 | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 |
| | | | | TSM | 23,182 | 5 | 0 | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 |
| | | | | TSW | 23,030 | 5 | 0 | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 |
| | | | | BLC | 18,307 | 2 | 0 | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 |
| | | | | LCCO | 13,622 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 |
| | | | | RCCO | 13,622 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 |
| | | | | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,726 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 |
| 80 | 850 | P3 | 217W | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 |
| | | | | T3M | 26,745 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 3 | 108 |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 |
| | | | | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 |
| | | | | T2S | 30,930 | 4 | 0 | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 |
| | | | | T2M | 31,089 | 3 | 0 | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 |
| 80 | 1050 | P4 | 270W | T3S | 30,108 | 4 | 0 | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 |
| | | | | T3M | 31,014 | 3 | 0 | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 |
| | | | | T4M | 30,340 | 3 | 0 | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 |
| | | | | TFTM | 30,995 | 3 | 0 | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 |
| | | | | TSVS | 32,235 | 5 | 0 | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 |
| | | | | TSS | 32,261 | 5 | 0 | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 |
| | | | | TSM | 32,180 | 5 | 0 | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 |
| | | | | TSW | 31,969 | 5 | 0 | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 |
| | | | | BLC | 25,412 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 |
| | | | | LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 |
| | | | | | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|-------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,227 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,555 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFTM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 | 1 | 0 | 1 | 70 |
| | | | | T2S | 37,784 | 4 | 0 | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| | | | | T2M | 37,979 | 4 | 0 | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| | | | | T3S | 36,780 | 4 | 0 | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| | | | | T3M | 37,886 | 3 | 0 | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| | | | | T4M | 37,063 | 4 | 0 | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| | | | | TFTM | 37,863 | 3 | 0 | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| | | | | TSVS | 39,379 | 5 | 0 | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| | | | | TSS | 39,411 | 5 | 0 | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| | | | | TSM | 39,311 | 5 | 0 | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| | | | | TSW | 39,053 | 5 | 0 | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| | | | | BLC | 31,043 | 3 | 0 | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| | | | | LCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | | | | | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFTM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,773 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | | | | | |
| | | | | T2S | 45,562 | 4 | 0 | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 45,797 | 4 | 0 | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T3S | 44,352 | 4 | 0 | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| | | | | T3M | 45,686 | 4 | 0 | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T4M | 44,693 | 4 | 0 | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| | | | | TFTM | 45,657 | 4 | 0 | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| | | | | TSVS | 47,485 | 5 | 0 | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| | | | | TSS | 47,524 | 5 | 0 | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| | | | | TSM | 47,404 | 5 | 0 | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| | | | | TSW | 47,093 | 5 | 0 | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| | | | | BLC | 37,434 | 3 | 0 | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| | | | | LCCO | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |

| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T3M MVOLT RPUMBA DDBXD | Type
S3 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|---------------------|-----|------|-----|--------|---------------------|---|---|-----|--------|---------------------|---|---|-----|--------|----------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 50K (3000 K, 70 CR) | | | | | 40K (4000 K, 70 CR) | | | | | 50K (5000 K, 70 CR) | | | | | AMSPC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TF1M | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,977 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| TF1M | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,240 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,917 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,777 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 126 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,778 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TF1M | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,124 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| TF1M | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 23,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TF1M | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T3M MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S3 |
|---|---|--|-------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated, luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org/dlc to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.lithonia.com/customer-service/warranty-and-conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



| | | | |
|--|--|---|---------------------|
| LIGHT SOURCE
<small>THE ILLUMINATION EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T3M MVOLT HS RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S11D |
|--|--|---|---------------------|



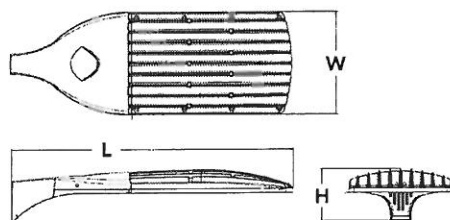
D-Series Size 2 LED Area Luminaire



d#series

Specifications

| | |
|----------------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.4 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



Catalog
Number

Notes

Type

For best results, always choose over the range to see all interactive options.

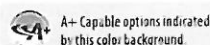
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocell interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | P2 | 40K | | T3M | | MVOLT RPUMBA | | | | |
|-------------------|---|-----|-------------------|--|--------------|-----------------------------------|---|----------------------------------|---|----------------------|---|
| Series | LEDs | | Color temperature | | Distribution | | Voltage | Mounting | | | |
| DSX2 LED | Forward optics | | 30K | 3000 K | T1S | Type I Short | TSVS | Type V Very Short | MVOLT ⁴ | Shipped included | CONFIRM MOUNTING |
| | P1 | P5 | 40K | 4000 K | T2S | Type II Short | TSS | Type V Short | | | |
| | P2 | P6 | 50K | 5000 K | T2M | Type II Medium | TSM | Type V Medium | 120 ⁵ | SPA | Square pole mounting |
| | P3 | P7 | AMBPC | Amber phosphor converted ¹³ | T3S | Type III Short | TSW | Type V Wide | 208 ⁵ | RPA | Round pole mounting |
| | P4 | P8 | | | T3M | Type III Medium | BLC | Backlight control ¹³ | 240 ⁵ | WBA | Wall bracket |
| | Rotated optics ¹ | | | | T4M | Type IV Medium | LCCO | Left corner cutoff ¹³ | 277 ⁵ | SPUMBA | Square pole universal mounting adaptor ⁷ |
| | P10 | P13 | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ¹³ | 347 ^{5,6} | RPUMBA | Round pole universal mounting adaptor ⁷ | | |
| | P11 | P14 | | | | | 480 ^{5,6} | Shipped separately | | | |
| | P12 | | | | | | | KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ⁸ | | |
| | | | | | | | HS | DDBXD | | | |
| Control options | | | | | | Other options | | | Finish options | | |
| Shipped installed | | | | | | Shipped installed | | | CONFIRM FINISH | | |
| PER | NEMA twist-lock receptacle only (no controls) ⁹ | | | | | HS | House-side shield | | DDBXD | Dark bronze | CONFIRM FINISH |
| PERS | Five-wire receptacle only (no controls) ^{9,10} | | | | | SF | Single fuse (120, 277, 347V) ⁷ | | DBLXD | Black | |
| PER7 | Seven-wire receptacle only (no controls) ^{9,10} | | | | | DF | Double fuse (208, 240, 480V) ⁷ | | DNAXD | Natural aluminum | |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | | | L90 | Left rotated optics ¹ | | DWHXD | White | |
| DS | Dual switching ^{1,12} | | | | | R90 | Right rotated optics ¹ | | DBTXD | Textured dark bronze | |
| PIRH | Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enable at 5fc ¹¹ | | | | | BS | Bird spikes | | DBLXD | Textured black | |
| | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enable at 1fc ¹¹ | | | | DNATXD | Textured natural aluminum | | |
| | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | | | | DWHGXD | Textured white | | |
| | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | | | | | | | |
| | | | PNMTDD3 | Part night, dim till dawn ¹⁷ | | | | | | | |
| | | | PNMTSD3 | Part night, dim 5 hrs ⁵ | | | | | | | |
| | | | PNMTG03 | Part night, dim 6 hrs ⁵ | | | | | | | |
| | | | PNMT703 | Part night, dim 7 hrs ⁵ | | | | | | | |
| | | | FAO | Field Adjustable Output ¹⁶ | | | | | | | |



Ordering Information

Accessories

Ordered and shipped separately

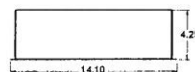
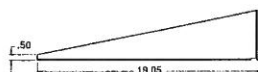
| | |
|----------------------------|---|
| DLL127F 1.5 JU | Photocell - SSL twist-lock (120-277V) ¹⁸ |
| DLL347F 1.5 CUL JU | Photocell - SSL twist-lock (347V) ¹⁸ |
| D1140W 1.5 CUL JU | Photocell - SSL twist-lock (400V) ¹⁸ |
| DSHORT SBK U | Shorting cap ¹⁸ |
| DSXHS 80C U | House-side shield for 80 LED unit ⁴ |
| DSXHS 90C U | House-side shield for 90 LED unit ⁴ |
| DSXHS 100C U | House-side shield for 100 LED unit ⁴ |
| PUMBA DDBXD U ⁴ | Square and round pole universal mounting bracket (specify finish) ¹⁸ |
| KMA8 DDBXD U | Max arm mounting bracket adaptor (specify finish) ¹⁸ |

For more control options, visit [www.lithonia.com](#) and [www.acuitybrands.com](#)

NOTES

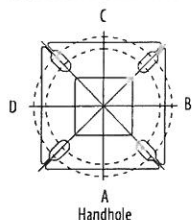
- P10, P11, P12 or P14 and related optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL50, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only. PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL50, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Temple O.D. | Single Unit | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of hands at degree from handhole (default side A)

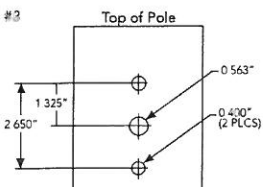
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|-------------|-------------|-----------------|-----------------|--------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Sides B & D | Sides B & C | Round pole only | Sides B, C, & D | Sides A, B, C, & D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" @ 90° | 4" @ 90° | 3.5" @ 90° | 3" @ 90° | 4.5" @ 120° | 4" @ 120° | 3.5" @ 120° | 3" @ 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #3



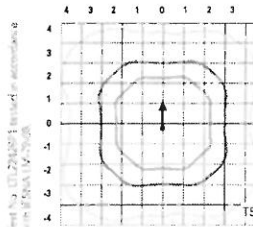
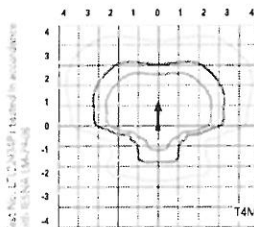
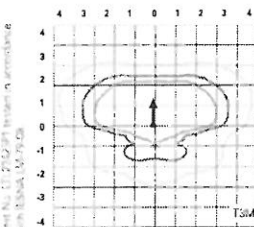
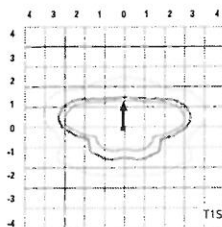
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's "Go-Source" Area Site & homepage](#).

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



| | | | |
|---|--|---|----------------------------|
| LIGHT SOURCE
<small>THE LIGHTING EXPERT</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T3M MVOLT HS RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S11D |
|---|--|---|----------------------------|

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | Lumen Multiplier |
|---------|------------------|
| 0°C | 1.04 |
| 5°C | 1.04 |
| 10°C | 1.03 |
| 15°C | 1.02 |
| 20°C | 1.01 |
| 25°C | 1.00 |
| 30°C | 0.99 |
| 35°C | 0.98 |
| 40°C | 0.97 |

Electrical Load

| | | | | | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | Performance Package | LED Count | Drive Current | Wattage | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

| PER Table | | | | | | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 6/Wire 7 |
| Photocell Only (On/Off) | ✓ | ▲ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊘ | ✓ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊘ | ▲ | Wires Capped inside fixture | ▲ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊘ | ▲ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ⊘ | ▲ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| |
|-----------------|
| ✓ Recommended |
| ⊘ Will not work |
| ▲ Alternate |

*Future-proof means: Ability to change controls in the future.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|--------|------|-----|--------|----------------------|--------|---|-----|--------|----------------------|---|---|-----|--------|-------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBIC (Amber Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,932 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 76 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,546 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,529 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,567 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFTM | 22,328 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,222 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,702 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,779 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,237 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFTM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,716 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,261 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | | | | | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| BLC | 25,412 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | | | | | |
| LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |
| | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |

| | | | |
|---|---|---|----------------------------|
| LIGHT SOURCE
<small>THE FLUORESCENT ALTERNATIVE</small> | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T3M MVOLT HS RPUMBA DDBXD | Type
S11D |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|-------------------------|----|------|-----|--------|-------------------------|---|---|-----|--------|-------------------------|---|---|-----|--------|--------------------------------------|---|---|-----|-------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K
(3000 K, 70 CRI) | | | | | 40K
(4000 K, 70 CRI) | | | | | 50K
(5000 K, 70 CRI) | | | | | AMBIC
(Ambir Plus/Plus Connected) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,722 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFTM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,007 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 |
| T2S | 37,784 | 4 | 0 | | | | | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| T2M | 37,979 | 4 | 0 | | | | | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| T3S | 36,780 | 4 | 0 | | | | | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| T3M | 37,886 | 3 | 0 | | | | | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| T4M | 37,063 | 4 | 0 | | | | | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| TFTM | 37,863 | 3 | 0 | | | | | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| TSVS | 39,379 | 5 | 0 | | | | | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| TSS | 39,411 | 5 | 0 | | | | | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| TSM | 39,311 | 5 | 0 | | | | | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| TSW | 39,053 | 5 | 0 | | | | | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| BLC | 31,043 | 3 | 0 | | | | | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| LCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | | | | | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,473 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFTM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | |
| T2S | 45,562 | 4 | 0 | | | | | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| T2M | 45,797 | 4 | 0 | | | | | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| T3S | 44,352 | 4 | 0 | | | | | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| T3M | 45,686 | 4 | 0 | | | | | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| T4M | 44,693 | 4 | 0 | | | | | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| TFTM | 45,657 | 4 | 0 | | | | | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| TSVS | 47,485 | 5 | 0 | | | | | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| TSS | 47,524 | 5 | 0 | | | | | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| TSM | 47,404 | 5 | 0 | | | | | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| TSW | 47,093 | 5 | 0 | | | | | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| BLC | 37,434 | 3 | 0 | | | | | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| LCCO | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |



| | | | |
|--|---|---|---------------------|
| LIGHT SOURCE
<small>THE LIGHTING EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T3M MVOLT HS RPUMBA DDBXD | Type
S11D |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|-----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|-------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFTM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,146 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,977 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| TFTM | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,240 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,778 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFTM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| TFTM | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,572 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 23,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFTM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,946 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 3 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|---|---|--|----------------------------|
| LIGHT SOURCE
<small>THE PERFECT LIGHT</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T3M MVOLT HS RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S11D |
|---|---|--|----------------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.lighting.philips.com/assets/downloads/DSX2_LED_P2_40K_T3M_MVOLT_HS_RPUMBA_DDBXD_Warranty.pdf

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



| | | | |
|--|--|--|--------------------------|
| LIGHT SOURCE
<small>THE ILLUMINATING EFFECTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S2 |
|--|--|--|--------------------------|

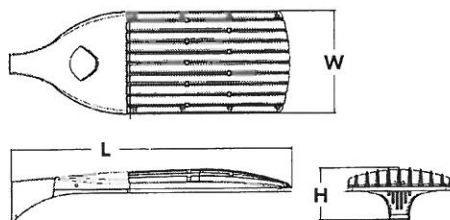


D-Series Size 2 LED Area Luminaire



Specifications

| | |
|----------------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.8 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



Catalog
Number

Notes

Type

For more information, visit the Acuity Brands website.

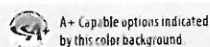
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | P5 | 40K | T5W | | MVOLT RPUMBA | | | | | |
|-------------------|--|-----|--|---------------------------------------|--------------|------------------------------------|---|-----------------------------------|---------------------------|------------------|---|
| Series | LEDs | | Color temperature | | Distribution | | Voltage | Mounting | | | |
| DSX2 LED | Forward optics | | 30K | 3000 K | T1S | Type I Short | TSVS | Type V Very Short | MVOLT ⁴ | Shipped included | CONFIRM MOUNTING |
| | P1 | P5 | 40K | 4000 K | T2S | Type II Short | TSS | Type V Short | 120 ⁵ | SPA | Square pole mounting |
| | P2 | P6 | 50K | 5000 K | T2M | Type II Medium | TSM | Type V Medium | 208 ⁵ | RPA | Round pole mounting |
| | P3 | P7 | AMBPC | Amber phosphor converted ⁶ | T3S | Type III Short | T5W | Type V Wide | 240 ⁵ | WBA | Wall bracket |
| | P4 | P8 | | | T3M | Type III Medium | BLC | Backlight control ⁷ | 277 ⁵ | SPUMBA | Square pole universal mounting adaptor ⁷ |
| | Rotated optics ¹ | | | | T4M | Type IV Medium | LCCO | Left corner cutoff ^{2,3} | 347 ^{5,6} | RPUMBA | Round pole universal mounting adaptor ⁷ |
| | P10 | P13 | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ^{2,3} | 480 ^{5,6} | Shipped separately | | | |
| | P11 | P14 | KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁸ | | | | | | | | |
| | P12 | | | | | | | | | | |
| | DDBXD | | | | | | | | | | |
| Control options | | | | | | Other options | | Finish options | | | |
| Shipped installed | | | | | | Shipped installed | | CONFIRM FINISH | | | |
| PER | NEMA twist-lock receptacle only (no controls) ⁹ | | | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ¹⁰ | DDBXD | Dark bronze | CONFIRM FINISH | |
| PER5 | Five-wire receptacle only (no controls) ^{9,10} | | | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | DBLXD | Black | | |
| PER7 | Seven-wire receptacle only (no controls) ^{9,10} | | | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | DNAXD | Natural aluminum | | |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | | | PNMTDD3 | Part night, dim tall dawn ¹⁵ | DWHXD | White | | |
| DS | Dual switching ^{1,12} | | | | | PNMTSD3 | Part night, dim 5 hrs ¹³ | DBTXD | Textured dark bronze | | |
| PIRH | Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5fc ¹⁰ | | | | | PNMT6D3 | Part night, dim 6 hrs ¹³ | DBLXD | Textured black | | |
| | | | | | | PNMT7D3 | Part night, dim 7 hrs ¹³ | DNATXD | Textured natural aluminum | | |
| | | | | | | FAO | Field Adjustable Output ¹⁶ | DWHGXD | Textured white | | |



Ordering Information

Accessories

Ordered and shipped separately.

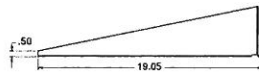
| | |
|-------------------|--|
| DL127F 1.5 IU | Photocell - SSL twist-lock (120-277V) ¹¹ |
| DL147F 1.5 CUL IU | Photocell - SSL twist-lock (347V) ¹¹ |
| DL140F 1.5 CUL IU | Photocell - SSL twist-lock (480V) ¹¹ |
| DSHORT SBK U | Shorting cap ¹¹ |
| DSXHS 80C U | House-side shield for 80 LED unit ⁴ |
| DSXHS 90C U | House-side shield for 90 LED unit ⁴ |
| DSXHS 100C U | House-side shield for 100 LED unit ⁴ |
| PUMBA DDBXD U* | Square and round pole universal mounting brackets (specify finish) ¹¹ |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ¹¹ |

For more control options, visit [Lithonia Lighting](#) and [Acuity Brands](#) online.

NOTES

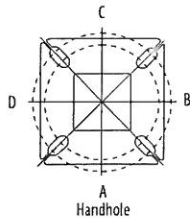
- 1 R10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- 2 AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- 3 Not available with HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Not available with BL50, BL50 or PNM options.
- 7 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- 8 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- 10 If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- 11 Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- 12 Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- 13 Reference Motion Sensor table on page 3.
- 14 Not available with 347V, 480V, DS and PNM. For PER5 or PER7 see PER Table on page 3.
- 15 Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- 16 Not available with other dimming controls options.
- 17 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 18 Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 19 For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single Unit | 2 at 90° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of hands at degree from handhole (default side A)

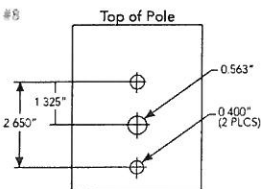
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|------------|------------|-----------------|----------------|------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" ± .04" | 4" ± .04" | 3.5" ± .04" | 3" ± .04" | 4.5" ± .120" | 4" ± .120" | 3.5" ± .120" | 3" ± .120" |
|------------------------|-------------|-----------|-------------|-----------|--------------|------------|--------------|------------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #8



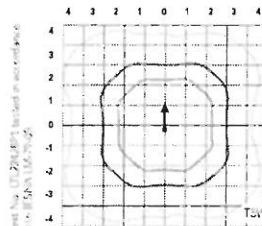
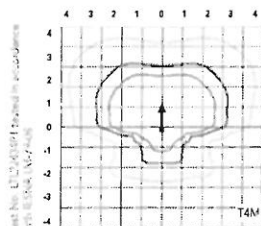
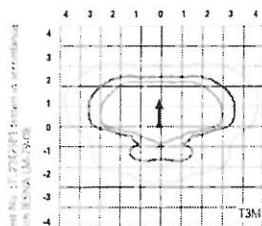
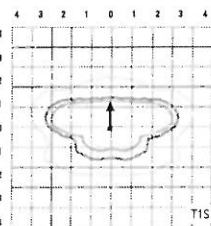
Photometric Diagrams

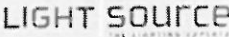
To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's Lithonia Access 2.0 homepage](#).

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S2 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

| PER Table | | | | | | |
|-------------------------------------|--------------|----------------|----------------------------------|----------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | Wire 4: Wire 5 | Wire 4: Wire 5 | Wire 4: Wire 6 | Wire 6: Wire 7 | Wire 6: Wire 7 |
| Photocontrol Only (On/Off) | ✓ | ⚠ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊗ | ✓ | Wired to dimming leads on driver | ⚠ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊗ | ⚠ | Wires Capped inside fixture | ⚠ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊗ | ⚠ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ⊗ | ⚠ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| | |
|---|------------------|
| ✓ | Retain as is/ind |
| ⊗ | Will not work |
| ⚠ | Alternate |

*Future-proof means: Ability to change controls in the future.

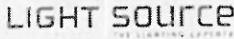


Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|--------|------|-----|--------|----------------------|--------|---|-----|--------|----------------------|--------|---|-----|--------|----------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBIC (Ambie Phosphor Converter) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 127 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,557 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 117 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFTM | 22,328 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,222 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,702 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,781 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,332 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 127 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFTM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,261 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 | | | | |
| BLC | 25,412 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | | | | | |
| LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |
| | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |

| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S2 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|--|---|---|-----|-------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 50K (5000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 30K (3000 K, 70 CRI) | | | | | AMBPC (Ambient Photophysics Connected) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,722 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFTM | 35,729 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 |
| T2S | 37,784 | 4 | 0 | | | | | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| T2M | 37,979 | 4 | 0 | | | | | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| T3S | 36,780 | 4 | 0 | | | | | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| T3M | 37,886 | 3 | 0 | | | | | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| T4M | 37,063 | 4 | 0 | | | | | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| TFTM | 37,863 | 3 | 0 | | | | | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| TSVS | 39,379 | 5 | 0 | | | | | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| TSS | 39,411 | 5 | 0 | | | | | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| TSM | 39,311 | 5 | 0 | | | | | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| TSW | 39,053 | 5 | 0 | | | | | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| BLC | 31,043 | 3 | 0 | | | | | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| LCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | | | | | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 4 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFTM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | |
| T2S | 45,562 | 4 | 0 | | | | | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| T2M | 45,797 | 4 | 0 | | | | | 4 | 106 | 49,316 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| T3S | 44,352 | 4 | 0 | | | | | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| T3M | 45,686 | 4 | 0 | | | | | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| T4M | 44,693 | 4 | 0 | | | | | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| TFTM | 45,657 | 4 | 0 | | | | | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| TSVS | 47,485 | 5 | 0 | | | | | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| TSS | 47,574 | 5 | 0 | | | | | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| TSM | 47,404 | 5 | 0 | | | | | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| TSW | 47,093 | 5 | 0 | | | | | 5 | 109 | 50,737 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| BLC | 37,434 | 3 | 0 | | | | | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| LCCO | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |

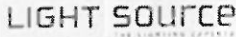


Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|---------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,747 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFTM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,140 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 | 3 | 0 | 3 | 70 |
| | | | | T2S | 25,371 | 5 | 0 | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| | | | | T2M | 25,829 | 4 | 0 | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| | | | | T3S | 24,977 | 5 | 0 | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| | | | | T3M | 25,814 | 5 | 0 | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| | | | | T4M | 25,327 | 5 | 0 | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| | | | | TFTM | 25,981 | 5 | 0 | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| | | | | TSVS | 26,164 | 5 | 0 | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| | | | | TSS | 25,943 | 4 | 0 | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| | | | | TSM | 25,937 | 5 | 0 | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| | | | | TSW | 25,704 | 5 | 0 | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| | | | | BLC | 21,339 | 4 | 0 | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| | | | | LCCO | 15,240 | 2 | 0 | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 15,220 | 5 | 0 | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | T1S | 29,917 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | | | | | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,777 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,079 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,278 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFTM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,792 | 5 | 0 | 5 | 123 | | | | | |
| | | | | T2S | 38,545 | 5 | 0 | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| | | | | T2M | 39,241 | 5 | 0 | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T3S | 37,947 | 5 | 0 | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| | | | | T3M | 39,218 | 5 | 0 | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| | | | | T4M | 38,478 | 5 | 0 | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| | | | | TFTM | 39,472 | 5 | 0 | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| | | | | TSVS | 39,749 | 5 | 0 | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| | | | | TSS | 39,415 | 5 | 0 | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| | | | | TSM | 39,405 | 5 | 0 | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| | | | | TSW | 39,052 | 5 | 0 | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| | | | | BLC | 32,419 | 5 | 0 | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| | | | | LCCO | 23,154 | 3 | 0 | 5 | 67 | 24,943 | 3 | 0 | 5 | 71 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,124 | 5 | 0 | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2S | 42,821 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFTM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,892 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|---|--|--|--------------------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S2 |
|---|--|--|--------------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.designlightsconsortium.org

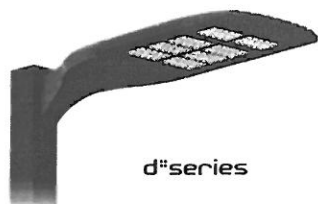
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



| | | | |
|--|--|--|-------------------|
| LIGHT SOURCE
<small>THE ILLUMINATION EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S4 |
|--|--|--|-------------------|

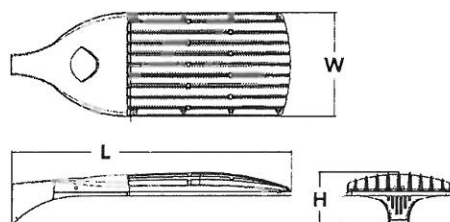


D-Series Size 2 LED Area Luminaire



Specifications

| | |
|---------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.4 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



| | |
|----------------|--|
| Catalog Number | |
| Notes | |
| Type | |

For the top row of luminaire, visit the page to see all other luminaire options.

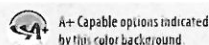
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | P5 | 40K | T5W | | MVOLT | | RPUMBA | | | | | |
|-------------------|--|------|-------|---|------|----------------------|---|----------------------------------|--------------------|--------------------|---|-----------------------|----------------------------------|
| Series | | LEDs | | Color temperature | | Distribution | | Voltage | Mounting | | | | |
| DSX2 LED | Forward optics | | 30K | 3000 K | T1S | Type I Short | T5VS | Type V Very Short | MVOLT ⁴ | Shipped included | CONFIRM MOUNTING | | |
| | P1 | P5 | 40K | 4000 K | T2S | Type II Short | T5S | Type V Short | 120 ³ | SPA | Square pole mounting | | |
| | P2 | P6 | 50K | 5000 K | T2M | Type II Medium | T5M | Type V Medium | 208 ³ | RPA | Round pole mounting | | |
| | P3 | P7 | AMBPC | Amber phosphor converted ^{1,2} | T3S | Type III Short | T5W | Type V Wide | 240 ³ | WBA | Wall bracket | | |
| | P4 | P8 | | | T3M | Type III Medium | BLC | Backlight control ^{1,2} | 277 ³ | SPUMBA | Square pole universal mounting adaptor ² | | |
| | Rotated optics ¹ | | | | T4M | Type IV Medium | LCCO | Left corner cutoff ³ | 347 ^{3,6} | RPUMBA | Round pole universal mounting adaptor ² | | |
| | P10 | P13 | | | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ³ | 480 ^{3,6} | Shipped separately | | | |
| | P11 | P14 | | | | | | | | KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ⁸ | | |
| | P12 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| DDBXD | | | | | | | | | | | | | |
| Control options | | | | | | Other options | | | | Finish | | | |
| Shipped installed | | | | | | Shipped installed | | | | DDBXD Dark bronze | | CONFIRM FINISH | |
| PER | NLMA two-wire receptacle only (no controls) ⁹ | | | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ¹⁸ | | | HS | House-side shield ¹⁷ | | DBBXD Dark bronze |
| PERS | Five-wire receptacle only (no controls) ^{9,10} | | | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | | | SF | Single fuse (120, 277, 347V) ⁷ | | DNAXD Natural aluminum |
| PER7 | Seven-wire receptacle only (no controls) ^{9,10} | | | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | | | DF | Double fuse (208, 240, 480V) ⁷ | | DWHXD White |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | | | PNMTDD3 | Part night, dim till dawn ¹⁵ | | | L90 | Left rotated optics ¹ | | DOBTD Textured dark bronze |
| DS | Dual switching ^{1,12} | | | | | PNMTSD3 | Part night, dim 5 hrs ⁵ | | | R90 | Right rotated optics ¹ | | DBLBXD Textured black |
| PIRH | Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5fc ¹¹ | | | | | PNMT6D3 | Part night, dim 6 hrs ⁵ | | | BS | Bird spiles | | DNATXD Textured natural aluminum |
| | | | | | | PNMT7D3 | Part night, dim 7 hrs ⁵ | | | | | DWHGXD Textured white | |
| | | | | | | FAO | Field Adjustable Output ¹⁶ | | | | | | |



Ordering Information

Accessories

Ordered and shipped separately.

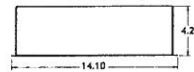
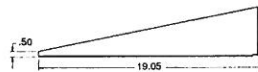
| | |
|-----------------------------|---|
| DLL127V 1.5 JU | Photocell - SSL twist-fac (120-277V) ¹¹ |
| DLL1347V 1.5 CUL JU | Photocell - SSL twist-fac (247V) ¹¹ |
| DLL440V 1.5 CUL JU | Photocell - SSL twist-fac (480V) ¹¹ |
| DSHORT SBK U | Shorting cap ¹¹ |
| DSX2HS 80C U | House-side shield for 80 LED unit ¹¹ |
| DSX2HS 90C U | House-side shield for 90 LED unit ¹¹ |
| DSX2HS 100C U | House-side shield for 100 LED unit ¹¹ |
| PUMBA DDBXD U ¹¹ | Square and round pole universal mounting bracket (specify finish) ¹¹ |
| KMA8 DDBXD U | Max arm mounting bracket adaptor (specify finish) ¹¹ |

For more control options, visit www.lithonia.com and www.dsx.com online.

NOTES

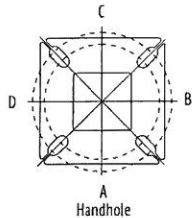
- P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single Pole | 2 at 90° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of hands at degree from handhole (default side A)

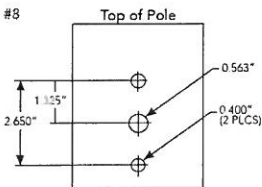
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|------------|------------|-----------------|----------------|------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" ± 90° | 4" ± 90° | 3.5" ± 90° | 3" ± 90° | 4.5" ± 120° | 4" ± 120° | 3.5" ± 120° | 4" ± 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #8



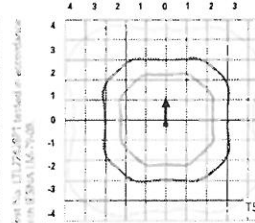
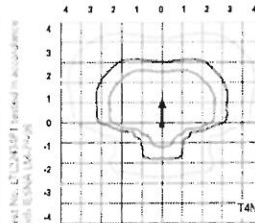
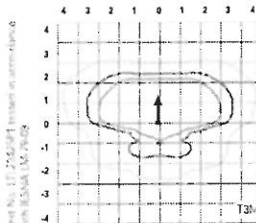
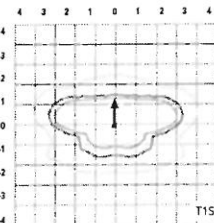
Photometric Diagrams

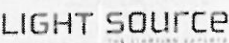
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's Website or Sales@Lithonia.com.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



| | | | |
|---|--|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S4 |
|---|--|--|-------------------|

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25,000 | 50,000 | 100,000 |
|--------------------------|------|--------|--------|---------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | | | | | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | Performance Package | LED Count | Drive Current | Wattage | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

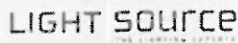
| PER Table | | | | | | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | | Wire 4/Wire 5 | Wire 4/Wire 6 | Wire 6/Wire 7 | Wire 6/Wire 7 |
| Photocell Only (On/Off) | ✓ | ▲ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊗ | ✓ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊗ | ▲ | Wires Capped inside fixture | ▲ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊗ | ▲ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ⊗ | ▲ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| |
|-----------------|
| ✓ Recommended |
| ⊗ Will not work |

▲ Alternate

*Future-proof means: Ability to change controls in the future.



| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S4 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

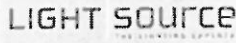
Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|--------|------|-----|--------|----------------------|--------|---|-----|--------|----------------------|---|---|-----|--------|-------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPE (Amber Phosphor Coated) | | | | |
| | | | | | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 131 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 76 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,766 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFTM | 22,328 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,272 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,726 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,729 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,945 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFTM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,261 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | | | | | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| BLC | 25,412 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | | | | | |
| LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |
| | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |



| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S4 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

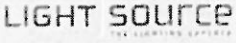
Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|--|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 28K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Ambient Photophysics Corrected) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,222 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFIM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,507 | 5 | 0 | 2 | 123 | 40,007 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,661 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 | 1 | 0 | 1 | 70 |
| | | | | T2S | 37,784 | 4 | 0 | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| | | | | T2M | 37,979 | 4 | 0 | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| | | | | T3S | 36,780 | 4 | 0 | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| | | | | T3M | 37,886 | 3 | 0 | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| | | | | T4M | 37,063 | 4 | 0 | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| | | | | TFIM | 37,863 | 3 | 0 | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| | | | | TSVS | 39,379 | 5 | 0 | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| | | | | TSS | 39,411 | 5 | 0 | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,318 | 2 | 0 | 0 | 74 |
| | | | | TSM | 39,311 | 5 | 0 | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| | | | | TSW | 39,053 | 5 | 0 | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| | | | | BLC | 31,043 | 3 | 0 | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| | | | | LCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | | | | | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,847 | 4 | 0 | 5 | 115 | 46,427 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,427 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 47,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFIM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,982 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | | | | | |
| | | | | T2S | 45,562 | 4 | 0 | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 45,797 | 4 | 0 | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T3S | 44,352 | 4 | 0 | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| | | | | T3M | 45,686 | 4 | 0 | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| | | | | T4M | 44,693 | 4 | 0 | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| | | | | TFIM | 45,657 | 4 | 0 | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| | | | | TSVS | 47,485 | 5 | 0 | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| | | | | TSS | 47,524 | 5 | 0 | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| | | | | TSM | 47,404 | 5 | 0 | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| | | | | TSW | 47,093 | 5 | 0 | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| | | | | BLC | 37,434 | 3 | 0 | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| | | | | LCCO | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | | | | | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |



| | | | |
|---|---|--|-------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S4 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|-----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|----------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | FTFM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 3 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,917 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,784 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| FTFM | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,740 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,278 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,759 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | FTFM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,120 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,749 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| FTFM | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,975 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 23,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | FTFM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|--|--|--|--------------------------|
| LIGHT SOURCE
<small>THE EMBEDDED LIGHTING SOLUTION</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S4 |
|--|--|--|--------------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to 185,100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org/products to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.lithonia.com/resources/warranty-terms-and-conditions.aspx

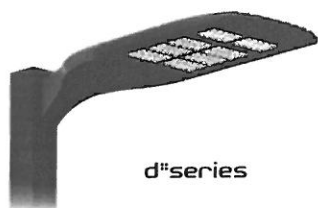
Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



| | | | |
|---|---|---|--------------------|
| LIGHT SOURCE
THE LIGHTING EXPERTS | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S12 |
|---|---|---|--------------------|

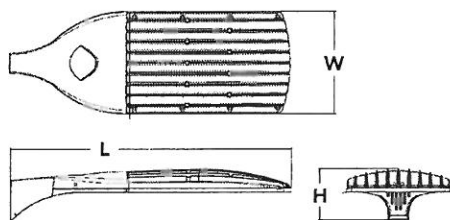


D-Series Size 2 LED Area Luminaire



Specifications

| | |
|---------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.8 cm) |
| Weight (max): | 36 lbs
(16.3 kg) |



| | |
|----------------|--|
| Catalog Number | |
| Notes | |
| Type | |

For best results, use the mounting bracket that comes with the luminaire to secure all other mounting components.

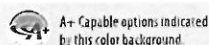
Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| Series | LEDs | Color temperature | Distribution | Voltage | Mounting |
|----------|---|---|--|--|---|
| DSX2 LED | Forward optics
P1 P5
P2 P6
P3 P7
P4 P8
Rotated optics¹
P10 P13
P11 P14
P12 | 30K 3000 K
40K 4000 K
50K 5000 K
AMBPC Amber phosphor converted ^{1,2} | T1S Type I Short
T2S Type II Short
T2M Type II Medium
T3S Type III Short
T3M Type III Medium
T4M Type IV Medium
TFTM Forward Throw Medium
T5VS Type V Very Short
T5S Type V Short
T5M Type V Medium
T5W Type V Wide
BLC Backlight control ¹
LCCO Left corner cutoff ^{1,3}
RCCO Right corner cutoff ^{1,3} | MVOLT ⁴
120 ⁵
208 ⁵
240 ⁵
277 ⁵
347 ^{5,6}
480 ^{5,6} | Shipped included CONFIRM MOUNTING
SPA Square pole mounting
RPA Round pole mounting
WBA Wall bracket
SPUMBA Square pole universal mounting adaptor ⁷
RPUMBA Round pole universal mounting adaptor ⁷
Shipped separately
KMA8 DDBXD U Mast arm mounting bracket adaptor (specify fin sh) ⁸ |

| Control options | Other options | Finish options |
|---|---|---|
| Shipped installed
PER NEMA twist-lock receptacle only (no controls) ⁹
PER5 Five-wire receptacle only (no controls) ^{9,10}
PER7 Seven-wire receptacle only (no controls) ^{9,10}
DMG 0-10V dimming extend out back of housing for external control (no controls)
DS Dual switching ^{1,12}
PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enable at 5fc ¹¹ | PIRH1FC3V Bi-level, motion sensor, 15-30' mounting height, ambient sensor enabled at 1fc ¹¹
BL30 Bi-level switched dimming, 30% ^{13,14}
BL50 Bi-level switched dimming, 50% ^{13,14}
PNMTDD3 Part night, dim till dawn ¹²
PNMTSD3 Part night, dim 5 hrs ¹⁵
PNMT6D3 Part night, dim 6 hrs ¹⁵
PNMT7D3 Part night, dim 7 hrs ¹⁵
FAO Field Adjustable Output ¹⁶ | Shipped installed
HS House-side shield ¹⁷
SF Single fuse (120, 277, 347V) ⁷
DF Double fuse (208, 240, 480V) ⁷
L90 Left rotated optics ¹
R90 Right rotated optics ¹
BS Bird spikes
DDBXD Dark bronze
DDBXD Black
DNAXD Natural aluminum
DWHXD White
DDBTXD Textured dark bronze
DDBLXD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white |



Ordering Information

Accessories

Ordered and shipped separately.

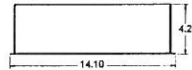
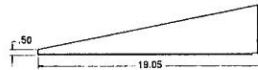
| | |
|--------------------|---|
| DL117F 1.5 IU | PhotoCell - 55k twist lock (170-177V) ¹⁰ |
| DL1347F 1.5 CUL IU | PhotoCell - 55k twist lock (347V) ¹¹ |
| DL1410F 1.5 TUL IU | PhotoCell - 55k twist lock (140V) ¹² |
| DSHORT SBK U | Shorting cap ¹³ |
| DSXHS 80C U | House-side shield for 80 LED unit ⁴ |
| DSXHS 90C U | House-side shield for 90 LED unit ⁴ |
| DSXHS 100C U | House-side shield for 100 LED unit ⁴ |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) ¹⁴ |
| KMA8 DDBXD U | Max arm mounting bracket adaptor (specify finish) ¹⁵ |

For more control options, visit [LCS](#) and [Luminaire online](#)

NOTES

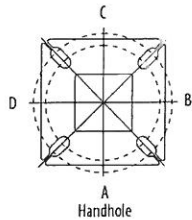
- P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- PhotoCell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| System O.D. | Single Unit | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-310 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

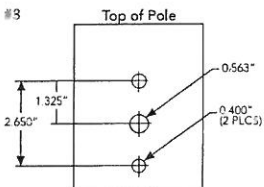
| Pole drilling nomenclature: # of hands at degree from handhole (default side A) | | | | | |
|---|-------------|-------------|-----------------|-----------------|------------------|
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Sides B & D | Sides B & C | Round pole only | Sides B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" @ 90° | 4" @ 90° | 3.5" @ 90° | 3" @ 90° | 4.5" @ 120° | 4" @ 120° | 3.5" @ 120° | 3" @ 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #3

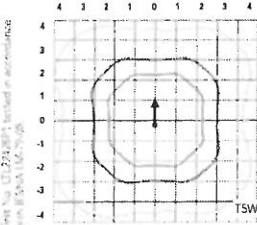
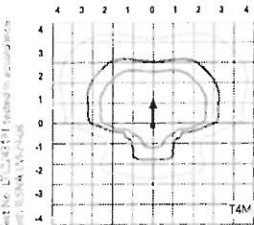
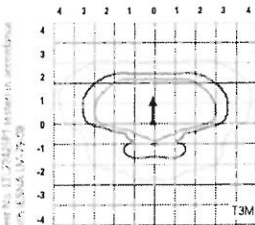
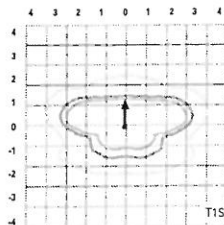


Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's](#) [Lithonia Avenue Suite 2](#) homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND



| | | | |
|---|---|--|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T5W MVOLT RPUMBA DDBXD | Type
S12 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|---|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics
(Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics
(Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

| PER Table | | | | | | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | Wire 4/Wire 5 | Wire 4/Wire 5 | Wire 4/Wire 5 | Wire 4/Wire 5 | Wire 4/Wire 5 |
| Photocell Only (On/Off) | ✓ | ▲ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊘ | ✓ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊘ | ▲ | Wires Capped inside fixture | ▲ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊘ | ▲ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ⊘ | ▲ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| |
|-----------------|
| ✓ Recommended |
| ⊘ Will not work |

▲ Alternate

*Future-proof means: Ability to change controls in the future.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

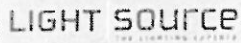
| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|--------|---|---|-----|----------------------|--------|---|---|-----|----------------------|---|---|---|-----|------------------------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Ambie-Plus phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,197 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | | | | | |
| RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | | | | | |
| 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 | 2 | 0 | 2 | 71 |
| | | | | T2S | 22,281 | 3 | 0 | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| | | | | T2M | 22,396 | 3 | 0 | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| | | | | T3S | 21,690 | 3 | 0 | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| | | | | T3M | 22,342 | 3 | 0 | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| | | | | T4M | 21,857 | 3 | 0 | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| | | | | TFTM | 22,328 | 3 | 0 | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| | | | | TSVS | 23,222 | 5 | 0 | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| | | | | TSS | 23,241 | 4 | 0 | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| | | | | TSM | 23,182 | 5 | 0 | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| | | | | TSW | 23,030 | 5 | 0 | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| | | | | BLC | 18,307 | 2 | 0 | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,672 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | | | | | |
| RCCO | 13,622 | 2 | 0 | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | | | | | |
| 80 | 850 | P3 | 217W | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,347 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,255 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | | | | | |
| RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | | | | | |
| 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,175 | 2 | 0 | 2 | 64 |
| | | | | T2S | 30,930 | 4 | 0 | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| | | | | T2M | 31,069 | 3 | 0 | 4 | 115 | 33,461 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| | | | | T3S | 30,108 | 4 | 0 | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| | | | | T3M | 31,014 | 3 | 0 | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| | | | | T4M | 30,340 | 3 | 0 | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| | | | | TFTM | 30,995 | 3 | 0 | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| | | | | TSVS | 32,735 | 5 | 0 | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| | | | | TSS | 32,761 | 5 | 0 | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| | | | | TSM | 32,180 | 5 | 0 | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| | | | | TSW | 31,969 | 5 | 0 | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| | | | | BLC | 25,417 | 2 | 0 | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | |
| LCCO | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |
| | 18,909 | 2 | 0 | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|---------------------------------|---|---|-----|-------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMPC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,972 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,222 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFIM | 35,779 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 111 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,663 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 |
| T2S | 37,784 | 4 | 0 | | | | | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| T2M | 37,979 | 4 | 0 | | | | | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| T3S | 36,780 | 4 | 0 | | | | | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| T3M | 37,936 | 3 | 0 | | | | | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| T4M | 37,063 | 4 | 0 | | | | | 5 | 108 | 39,977 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| TFIM | 37,863 | 3 | 0 | | | | | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| TSVS | 39,379 | 5 | 0 | | | | | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,778 | 2 | 0 | 0 | 73 |
| TSS | 39,411 | 5 | 0 | | | | | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,818 | 2 | 0 | 0 | 74 |
| TSM | 39,311 | 5 | 0 | | | | | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,888 | 2 | 0 | 1 | 73 |
| TSW | 39,053 | 5 | 0 | | | | | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,795 | 2 | 0 | 1 | 73 |
| BLC | 31,043 | 3 | 0 | | | | | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| LCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | | | | | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFIM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,150 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,185 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | |
| T2S | 45,562 | 4 | 0 | | | | | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| T2M | 45,797 | 4 | 0 | | | | | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| T3S | 44,352 | 4 | 0 | | | | | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| T3M | 45,686 | 4 | 0 | | | | | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,819 | 4 | 0 | 5 | 116 | | | | | |
| T4M | 44,693 | 4 | 0 | | | | | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| TFIM | 45,657 | 4 | 0 | | | | | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| TSVS | 47,485 | 5 | 0 | | | | | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| TSS | 47,524 | 5 | 0 | | | | | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| TSM | 47,404 | 5 | 0 | | | | | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| TSW | 47,093 | 5 | 0 | | | | | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| BLC | 37,434 | 3 | 0 | | | | | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| LCCO | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |

| | | | |
|---|---|--|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T5W MVOLT RPUMBA DDBXD | Type
S12 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|-----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|---------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | SBR (5000 K, 70 CRI) | | | | | ABE (5000 K, 70 CRI) | | | | | SBR (5000 K, 70 CRI) | | | | | AMBP (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW | Lumens | R | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 139 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFIM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,751 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,788 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,487 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,977 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| TFIM | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,240 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,278 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFIM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| TFIM | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 22,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFIM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|---|---|---|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S12 |
|---|---|---|--------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org/DLC to confirm which versions are qualified.

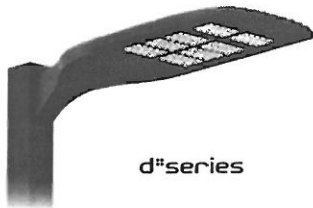
WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.lithonia.com/resources/DSX2-LED-Warranty-Terms.pdf

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



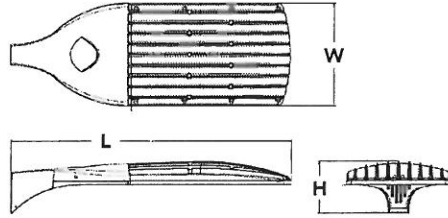


D-Series Size 2 LED Area Luminaire



Specifications

| | |
|------------------|---|
| EPA: | 1.1 ft ²
(0.10 m ²) |
| Length: | 40"
(101.6 cm) |
| Width: | 15"
(38.1 cm) |
| Height: | 7-1/4"
(18.4 cm) |
| Weight
(max): | 36 lbs
(16.3 kg) |



Catalog
Number

Notes

Type

For B10, B16, and all other sizes, please refer to the applicable specification.

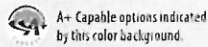
Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately. [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | P2 | 40K | T4M | MVOLT RPUMBA |
|---|---|---|---|--|
| Series | LEDs | Color Temperature | Distribution | Voltage |
| DSX2 LED | Forward optics
P1 P5
P2 P6
P3 P7
P4 P8
Rotated optics¹
P10 P13
P11 P14
P12 | 30K 3000 K
40K 4000 K
50K 5000 K
AMBPC Amber phosphor converted ² | T1S Type I Short
T2S Type II Short
T2M Type II Medium
T3S Type III Short
T3M Type III Medium
T4M Type IV Medium
TF1M Forward Throw Medium | TSVS Type V Very Short
TSS Type V Short
TSM Type V Medium
TSW Type V Wide
BLC Backlight control ^{2,3}
LCCO Left corner cutoff ^{2,3}
RCCO Right corner cutoff ^{2,3} |
| | | | | 120 ⁵
208 ⁵
240 ⁵
277 ⁵
347 ^{5,6}
480 ^{5,6} |
| | | | | Shipped included CONFIRM MOUNTING
SPA Square pole mounting
RPA Round pole mounting
WBA Wall bracket
SPUMBA Square pole universal mounting adaptor ⁷
RPUMBA Round pole universal mounting adaptor ⁷
Shipped separately
KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁸ |
| HS | | | | DDBXD |
| Control options | | | | Other options |
| Shipped installed
PER NEMA twist-lock receptacle only (no controls) ⁹
PER5 Five-wire receptacle only (no controls) ^{9,10}
PER7 Seven-wire receptacle only (no controls) ^{9,10}
DMG 0-10V dimming extend out back of housing for external control (no controls)
DS Dual switching ^{11,12}
PIRH Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5fc ¹³ | | | | Shipped installed
HS House-side shield ¹⁷
SF Single fuse (120, 277, 347V) ⁷
DF Double fuse (208, 240, 480V) ⁷
L90 Left rotated optics ²
R90 Right rotated optics ²
BS Bird spikes |
| PIRH1FC3V Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enabled at 1fc ^{13,14}
BL30 Bi-level switched dimming, 30% ^{13,14}
BL50 Bi-level switched dimming, 50% ^{13,14}
PNMTDD3 Part night, dim till dawn ¹⁵
PNMTSD3 Part night, dim 5 hrs ¹⁵
PNMT6D3 Part night, dim 6 hrs ¹⁵
PNMT7D3 Part night, dim 7 hrs ¹⁵
FAO Field Adjustable Output ¹⁶ | | | | Finish by request
DDBXD Dark bronze
DBLXD Black
DNAXD Natural aluminum
DWHXD White
DDBTXD Textured dark bronze
DBLTXD Textured black
DNATXD Textured natural aluminum
DWHGXD Textured white |
| | | | | CONFIRM FINISH |

| | | | |
|--|--|---|---------------------------|
| LIGHT SOURCE
<small>THE LIGHTING EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P2 40K T4M MVOLT HS RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S11 |
|--|--|---|---------------------------|

Ordering Information

Accessories

(Ordered and shipped separately)

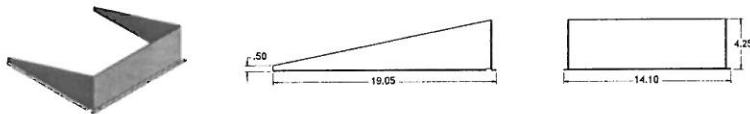
| | |
|---------------------|--|
| DL11719 1.5 JU | Photocell - SSL twist-lock (170-277V) ** |
| DL194/F 1.5 CU/L JU | Photocell - SSL twist-lock (24V) ** |
| DL1480F 1.5 CU/L JU | Photocell - SSL twist-lock (480V) ** |
| DSH0RT SBK U | Shorting cap ** |
| DSKH5 80C U | House-side shield for 80 LED unit * |
| DSKH5 90C U | House-side shield for 90 LED unit * |
| DSKH5 100C U | House-side shield for 100 LED unit * |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) ** |
| KMA8 DDBXD U | Max arm mounting bracket adaptor (specify finish) ** |

For more control options, visit [LTS](#) and [PUMBA](#) online.

NOTES

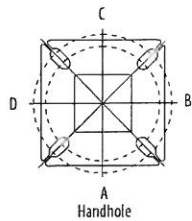
- P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- AMBPC not available with BLC, LCCO, RCCO, HS or P5, P7, P8, P13 or P14.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory, for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- If RCAMB node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- Reference Motion Sensor table on page 3.
- Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single Unit | 2 x 180 | 2 x 90 | 4 x 120 | 4 x 90 | 4 x 60 |
|------------|-------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

Pole drilling nomenclature: # of heads at degree from handhole (default side A)

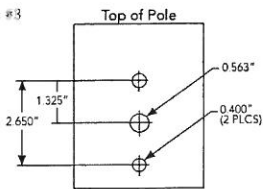
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
|---------|------------|------------|-----------------|----------------|------------------|
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" ± .00 | 4" ± .00 | 3.5" ± .00 | 3" ± .00 | 4.5" ± .120 | 4" ± .120 | 3.5" ± .120 | 3" ± .120 |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

**3 fixtures @ 120 require round pole top/tenon.

Template #3



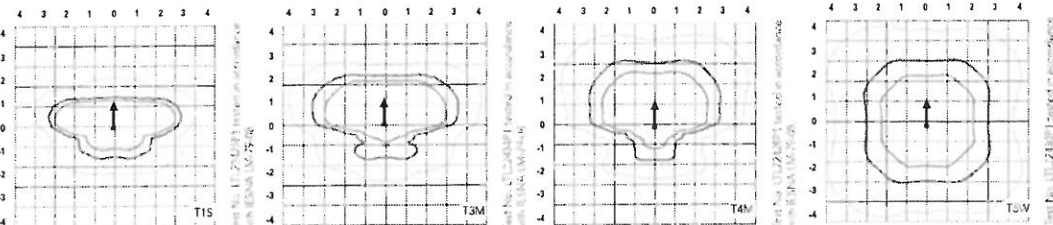
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's](#) [3D-File-Link](#) [Area-Serve-2](#) [Images](#) page.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30').

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



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DSX2-LED
Rev. 10/25/17
Page 2 of 7

| | | | |
|--|---|---|---------------------------|
| LIGHT SOURCE
<small>THE LIGHTING EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P2 40K T4M MVOLT HS RPUMBA DDBXD | Type
S11 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | | | | | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | Performance Package | LED Count | Drive Current | Wattage | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R90) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

*for use with Inline Dusk to Dawn or timer.

| PER Table | | | | | | |
|-------------------------------------|--------------|---------------|----------------------------------|----------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | Wire 4 (Blue) | Wire 5 (Green) | Wire 6 (Black) | Wire 7 (Blue) | Wire 8 (Blue) |
| Photocell Only (On/Off) | ✓ | ▲ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM | ⊘ | ✓ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| ROAM with Motion (ROAM on/off only) | ⊘ | ▲ | Wires Capped inside fixture | ▲ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ⊘ | ▲ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ⊘ | ▲ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

✓ Recommended

⊘ Will not work

▲ Alternate

*Future-proof means: Ability to change controls in the future.



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|---------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBIC (Ambient Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,221 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFTM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | TSW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFTM | 22,328 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,272 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,333 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,702 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,273 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFTM | 26,229 | 3 | 0 | 4 | 121 | 28,755 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,279 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFTM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,261 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | | | | | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| BLC | 25,412 | 2 | 0 | | | | | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,772 | 2 | 0 | 4 | 103 | | | | | |
| LCCO | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |
| | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|---|---|---|-----|----------------------|---|---|---|-----|----------------------|---|---|---|-----|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 20K (1500 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 |
| | | | | T3S | 34,727 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 |
| | | | | FTM | 35,279 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,502 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 |
| | | | | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 |
| 100 | 1050 | P6 | 343W | T2S | 37,784 | 4 | 0 | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 |
| | | | | T2M | 37,979 | 4 | 0 | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 |
| | | | | T3S | 36,780 | 4 | 0 | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 |
| | | | | T3M | 37,666 | 3 | 0 | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 |
| | | | | T4M | 37,063 | 4 | 0 | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 |
| | | | | FTM | 37,861 | 3 | 0 | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 |
| | | | | TSVS | 39,379 | 5 | 0 | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 |
| | | | | TSS | 39,411 | 5 | 0 | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 |
| | | | | TSM | 39,311 | 5 | 0 | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 |
| | | | | TSW | 39,053 | 5 | 0 | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 |
| | | | | BLC | 31,043 | 3 | 0 | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 |
| | | | | LCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 |
| | | | | RCCO | 23,099 | 2 | 0 | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 |
| | | | | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,842 | 4 | 0 | 5 | 115 | 46,422 | 4 | 0 | 5 | 117 |
| 100 | 1250 | P7 | 398W | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 |
| | | | | FTM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 3 | 120 | 48,420 | 5 | 0 | 3 | 122 |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 |
| | | | | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 |
| | | | | T2S | 45,562 | 4 | 0 | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 |
| | | | | T2M | 45,797 | 4 | 0 | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 |
| 100 | 1350 | P8 | 448W | T3S | 44,352 | 4 | 0 | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 |
| | | | | T3M | 45,686 | 4 | 0 | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 |
| | | | | T4M | 44,693 | 4 | 0 | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 |
| | | | | FTM | 45,657 | 4 | 0 | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 |
| | | | | TSVS | 47,485 | 5 | 0 | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 |
| | | | | TSS | 47,524 | 5 | 0 | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 |
| | | | | TSM | 47,404 | 5 | 0 | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 |
| | | | | TSW | 47,093 | 5 | 0 | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 |
| | | | | BLC | 37,434 | 3 | 0 | 5 | 87 | 40,326 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 |
| | | | | LCCO | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 |
| | | | | | 27,854 | 3 | 0 | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 |

Performance Data

Lumen Output

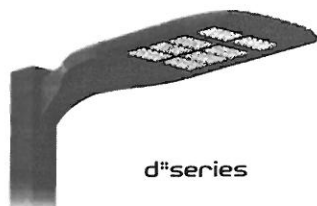
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|-----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|----------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 40K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Amber Phosphor Converted) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,448 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,442 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,788 | 3 | 0 | 1 | 82 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,978 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 82 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,199 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,846 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,032 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,977 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| TFM | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,240 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,223 | 4 | 0 | 4 | 127 | 32,631 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,778 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,688 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,714 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,273 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| TFM | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 23,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,959 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 42,181 | 5 | 0 | 5 | 107 | 46,510 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | | | | | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | |

| | | | |
|--|---|---|--------------------|
| LIGHT SOURCE
<small>THE ILLUMINATION EXPERTS</small> | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S13 |
|--|---|---|--------------------|

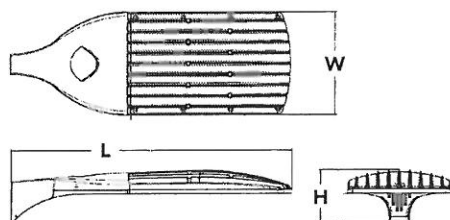


D-Series Size 2 LED Area Luminaire



Specifications

EPA: 1.1 ft²
(0.10 m²)
Length: 40"
(101.6 cm)
Width: 15"
(38.1 cm)
Height: 7-1/4"
(18.4 cm)
Weight (max): 36 lbs
(16.3 kg)



Catalog Number

Notes

Type

For spec, top, left of include visit this page to see all reference options.

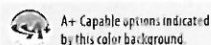
A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background
- DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background¹

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)



Ordering Information

EXAMPLE: DSX2 LED P7 T3M MVOLT SPA DDBXD

| DSX2 LED | | P5 | 40K | TSW | | MVOLT RPUMBA | | | | | | |
|-------------------|--|-----|-------------------|---------------------------------------|-------------------|--|---------|------------------------------------|---|--------------------|---|---------------------------|
| Series | LEDs | | Color temperature | | Distribution | | Voltage | Mounting | | | | |
| DSX2 LED | Forward optics | | 30K | 3000 K | T1S | Type I Short | TSVS | Type V Very Short | MVOLT ⁴ | Shipped included | CONFIRM MOUNTING | |
| | P1 | P5 | 40K | 4000 K | T2S | Type II Short | TSS | Type V Short | 120 ⁵ | SPA | Square pole mounting | |
| | P2 | P6 | 50K | 5000 K | T2M | Type II Medium | TSM | Type V Medium | 208 ⁵ | RPA | Round pole mounting | |
| | P3 | P7 | AMBPC | Amber phosphor converted ³ | T3S | Type III Short | TSW | Type V Wide | 240 ⁵ | WBA | Wall bracket | |
| | P4 | P8 | | | T3M | Type III Medium | BLC | Backlight control ¹ | 277 ⁵ | SPUMBA | Square pole universal mounting adaptor ⁷ | |
| | Rotated optics ¹ | | | | T4M | Type IV Medium | LCCO | Left corner cutoff ^{2,3} | 347 ^{5,6} | RPUMBA | Round pole universal mounting adaptor ¹ | |
| | P10 | P13 | | | TFTM | Forward Throw Medium | RCCO | Right corner cutoff ^{2,3} | 480 ^{5,6} | Shipped separately | | |
| | P11 | P14 | | | | | | | | KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ⁸ | |
| | P12 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | DDBXD | | | | | | | | | | | |
| | Control options | | | | | Other options | | | Finish options | | | |
| Shipped installed | | | | | Shipped installed | | | CONFIRM FINISH | | | | |
| PER | NEMA two-lock receptacle only (no controls) ⁹ | | | | PIRH1FC3V | Bi-level, motion sensor, 15'-30' mounting height, ambient sensor enable at 1fc ¹³ | | HS | House-side shield ¹⁷ | | DDBXD | Dark bronze |
| PERS | Five-wire receptacle only (no controls) ^{9,10} | | | | BL30 | Bi-level switched dimming, 30% ^{11,14} | | SF | Single fuse (120, 277, 347V) ⁷ | | DBLXD | Black |
| PER7 | Seven-wire receptacle only (no controls) ^{9,10} | | | | BL50 | Bi-level switched dimming, 50% ^{11,14} | | DF | Double fuse (208, 240, 480V) ⁷ | | DNAXD | Natural aluminum |
| DMG | 0-10V dimming extend out back of housing for external control (no controls) | | | | PNMTDD3 | Part night, dim till dawn ¹⁵ | | L90 | Left rotated optics ¹ | | DWHXD | White |
| DS | Dual switching ^{11,12} | | | | PNMTSD3 | Part night, dim 5 hrs ⁵ | | R90 | Right rotated optics ¹ | | DDTDX | Textured dark bronze |
| PIRH | Bi-level, motion/ambient sensor, 15'-30' mounting height, ambient sensor enable at 5fc ¹³ | | | | PNMT6D3 | Part night, dim 6 hrs ⁵ | | BS | Bird spikes | | DBLXD | Textured black |
| | | | | | PNMT7D3 | Part night, dim 7 hrs ⁵ | | | | | DNATXD | Textured natural aluminum |
| | | | | | FAO | Field Adjustable Output ¹⁶ | | | | | DWHGX | Textured white |



Ordering Information

Accessories

Ordered and shipped separately

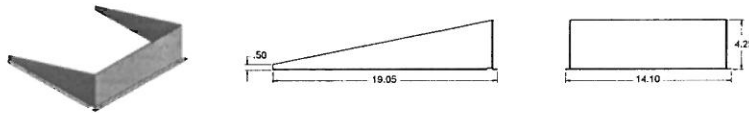
| | |
|--------------------|--|
| DL127F 1.5 IU | Photocell - SSL twist-lock (120-277V) ** |
| DL1347F 1.5 CUL IU | Photocell - SSL twist-lock (347V) ** |
| DL148DF 1.5 CUL IU | Photocell - SSL twist-lock (480V) ** |
| DSHORT SBK U | Shorting cap ** |
| DSXHS 80C U | House-side shield for 80 LED unit * |
| DSXHS 90C U | House-side shield for 90 LED unit * |
| DSXHS 100C U | House-side shield for 100 LED unit * |
| PUMBA DDBXD U* | Square and round pole universal mounting bracket (specify finish) ** |
| KMA8 DDBXD U | Mast arm mounting bracket adaptor (specify finish) ** |

For more control options, visit [LCS](#) and [LCS](#) online.

NOTES

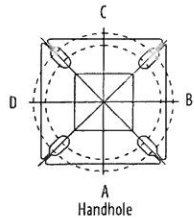
- 1 P10, P11, P12 or P14 and rotated optics (L90, R90) only available together.
- 2 AMBPC not available with BLC, LCCO, RCCO, HS or PS, P7, P8, P13 or P14.
- 3 Not available with HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Not available with BL30, BL50 or PNMT options.
- 7 Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U, 1.5 G vibration load rating per ANSI C136.31.
- 8 Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting Cap included.
- 10 If ROAME node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Node with integral dimming. Shorting Cap included.
- 11 Requires (2) separately switched circuits. See Outdoor Control Technical Guide for details.
- 12 Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH.
- 13 Reference Motion Sensor table on page 3.
- 14 Not available with 347V, 480V, DS and PNMT. For PER5 or PER7 see PER Table on page 3.
- 15 Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7 see PER Table on page 3. Separate Dusk to Dawn required.
- 16 Not available with other dimming controls options.
- 17 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 18 Requires luminaire to be specified with PER, PER5 and PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- 19 For retrofit use only.

External Glare Shield



Drilling

HANDHOLE ORIENTATION



Tenon Mounting Slipfitter**

| Tenon O.D. | Single Tenon | 2 at 180° | 2 at 90° | 3 at 120° | 3 at 90° | 4 at 90° |
|------------|--------------|-----------|-----------|-----------|-----------|-----------|
| 2-3/8" | AST20-190 | AST20-280 | AST20-290 | AST20-320 | AST20-390 | AST20-490 |
| 2-7/8" | AST25-190 | AST25-280 | AST25-290 | AST25-320 | AST25-390 | AST25-490 |
| 4" | AST35-190 | AST35-280 | AST35-290 | AST35-320 | AST35-390 | AST35-490 |

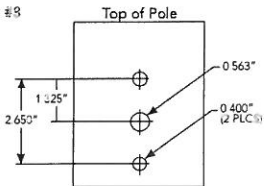
| Pole drilling nomenclature: 2 of hands at degrees from handhole (default side A) | | | | | |
|--|------------|------------|-----------------|----------------|------------------|
| DM19AS | DM28AS | DM29AS | DM32AS | DM39AS | DM49AS |
| 1 @ 90° | 2 @ 280° | 2 @ 90° | 3 @ 120° | 3 @ 90° | 4 @ 90° |
| Side B | Side B & D | Side B & C | Round pole only | Side B, C, & D | Sides A, B, C, D |

Note: Review luminaire spec sheet for specific nomenclature

| Pole top or tenon O.D. | 4.5" x 90° | 4" x 90° | 3.5" x 90° | 3" x 90° | 4.5" x 120° | 4" x 120° | 3.5" x 120° | 3" x 120° |
|------------------------|------------|----------|------------|----------|-------------|-----------|-------------|-----------|
| DSX SPA | Y | Y | Y | N | - | - | - | - |
| DSX RPA | Y | Y | N | N | Y | Y | Y | Y |
| DSX SPUMBA | Y | N | N | N | - | - | - | - |
| DSX RPUMBA | N | N | N | N | Y | Y | Y | N |

*3 fixtures @ 120 require round pole top/tenon.

Template #3



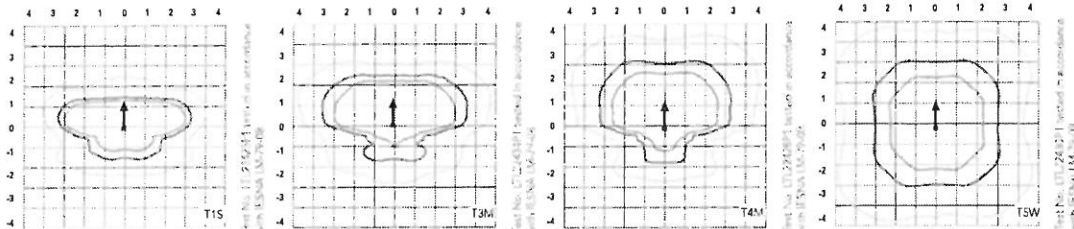
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's](#) [Lithonia Area Site 2](#) homepage.

Isofootcandle plots for the DSX2 LED 80C 1000 40K. Distances are in units of mounting height (30')

LEGEND

| |
|--------|
| 0.1 fc |
| 0.5 fc |
| 1.0 fc |



| | | | |
|---|---|--|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S13 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F)

| Ambient | | Lumen Multiplier |
|---------|-------|------------------|
| 0°C | 32°F | 1.04 |
| 5°C | 41°F | 1.04 |
| 10°C | 50°F | 1.03 |
| 15°C | 59°F | 1.02 |
| 20°C | 68°F | 1.01 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 0.99 |
| 35°C | 95°F | 0.98 |
| 40°C | 104°F | 0.97 |

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

| Operating Hours | 0 | 25000 | 50000 | 100000 |
|--------------------------|------|-------|-------|--------|
| Lumen Maintenance Factor | 1.00 | 0.96 | 0.92 | 0.85 |

Electrical Load

| | Performance Package | LED Count | Drive Current | Wattage | Current (A) | | | | | |
|--------------------------------------|---------------------|-----------|---------------|---------|-------------|------|------|------|------|------|
| | | | | | 120 | 208 | 240 | 277 | 347 | 480 |
| Forward Optics (Non-Rotated) | P1 | 80 | 530 | 140 | 1.18 | 0.68 | 0.59 | 0.51 | 0.40 | 0.32 |
| | P2 | 80 | 700 | 185 | 1.56 | 0.90 | 0.78 | 0.66 | 0.52 | 0.39 |
| | P3 | 80 | 850 | 217 | 1.82 | 1.05 | 0.90 | 0.80 | 0.63 | 0.48 |
| | P4 | 80 | 1050 | 270 | 2.27 | 1.31 | 1.12 | 0.99 | 0.79 | 0.59 |
| | P5 | 80 | 1250 | 321 | 2.68 | 1.54 | 1.34 | 1.17 | 0.93 | 0.68 |
| | P6 | 100 | 1050 | 343 | 2.89 | 1.66 | 1.59 | 1.37 | 1.00 | 0.71 |
| | P7 | 100 | 1250 | 398 | 3.31 | 1.91 | 1.66 | 1.45 | 1.16 | 0.81 |
| | P8 | 100 | 1350 | 431 | 3.61 | 2.07 | 1.81 | 1.57 | 1.25 | 0.91 |
| Rotated Optics (Requires L90 or R30) | P10 | 90 | 530 | 156 | 1.30 | 0.76 | 0.65 | 0.62 | 0.45 | 0.32 |
| | P11 | 90 | 700 | 207 | 1.75 | 1.01 | 0.87 | 0.74 | 0.60 | 0.46 |
| | P12 | 90 | 850 | 254 | 2.12 | 1.22 | 1.06 | 0.94 | 0.73 | 0.55 |
| | P13 | 90 | 1200 | 344 | 2.88 | 1.65 | 1.44 | 1.25 | 1.00 | 0.73 |
| | P14 | 90 | 1400 | 405 | 3.39 | 1.95 | 1.71 | 1.48 | 1.18 | 0.86 |

| Motion Sensor Default Settings | | | | | | |
|--------------------------------|-----------------|-----------------------------|---------------------|------------|--------------|----------------|
| Option | Dimmed State | High Level (when triggered) | Photocell Operation | Dwell Time | Ramp-up Time | Ramp-down Time |
| PIR or PIRH | 3V (37%) Output | 10V (100%) Output | Enabled @ 5FC | 5 min | 3 sec | 5 min |
| *PIR1FC3V or PIRH1FC3V | 3V (37%) Output | 10V (100%) Output | Enabled @ 1FC | 5 min | 3 sec | 5 min |

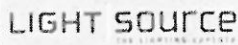
*for use with Inline Dusk to Dawn or timer.

| PER Table | | | | | | |
|-------------------------------------|--------------|---------------|----------------------------------|---------------|----------------------------------|-----------------------------|
| Control | PER (3 wire) | PERS (5 wire) | | PER7 (7 wire) | | |
| | | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 4/Wire 5 | Wire 6/Wire 7 | Wire 6/Wire 7 |
| Photocell Only (On/Off) | ✓ | ▲ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| RDAM | ✗ | ✓ | Wired to dimming leads on driver | ▲ | Wired to dimming leads on driver | Wires Capped inside fixture |
| RDAM with Motion (RDAM on/off only) | ✗ | ▲ | Wires Capped inside fixture | ▲ | Wires Capped inside fixture | Wires Capped inside fixture |
| Future-proof* | ✗ | ▲ | Wired to dimming leads on driver | ✓ | Wired to dimming leads on driver | Wires Capped inside fixture |
| Future-proof* with Motion | ✗ | ▲ | Wires Capped inside fixture | ✓ | Wires Capped inside fixture | Wires Capped inside fixture |

| |
|-----------------|
| ✓ Recommended |
| ✗ Will not work |
| ▲ Alternate |

*Future-proof means: Ability to change controls in the future.



| | | | |
|---|---|--|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S13 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|-----------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 50K (3400 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 30K (5000 K, 70 CRI) | | | | | AMBIC (Amber Plus/plus Connected) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 530 | P1 | 140W | T1S | 17,575 | 3 | 0 | 3 | 126 | 18,933 | 3 | 0 | 3 | 135 | 19,173 | 3 | 0 | 3 | 137 | 10,752 | 2 | 0 | 2 | 78 |
| | | | | T2S | 17,556 | 3 | 0 | 3 | 125 | 18,913 | 3 | 0 | 3 | 135 | 19,152 | 3 | 0 | 3 | 137 | 10,554 | 2 | 0 | 2 | 77 |
| | | | | T2M | 17,647 | 3 | 0 | 3 | 126 | 19,010 | 3 | 0 | 3 | 136 | 19,251 | 3 | 0 | 3 | 138 | 10,571 | 2 | 0 | 2 | 77 |
| | | | | T3S | 17,090 | 3 | 0 | 3 | 122 | 18,411 | 3 | 0 | 3 | 132 | 18,644 | 3 | 0 | 3 | 133 | 10,548 | 2 | 0 | 2 | 77 |
| | | | | T3M | 17,604 | 3 | 0 | 3 | 126 | 18,964 | 3 | 0 | 3 | 135 | 19,204 | 3 | 0 | 3 | 137 | 10,569 | 2 | 0 | 2 | 77 |
| | | | | T4M | 17,721 | 3 | 0 | 3 | 123 | 18,552 | 3 | 0 | 4 | 133 | 18,787 | 3 | 0 | 4 | 134 | 10,547 | 2 | 0 | 2 | 77 |
| | | | | TFIM | 17,593 | 3 | 0 | 3 | 126 | 18,952 | 3 | 0 | 4 | 135 | 19,192 | 3 | 0 | 4 | 137 | 10,741 | 1 | 0 | 2 | 78 |
| | | | | TSVS | 18,297 | 4 | 0 | 1 | 131 | 19,711 | 4 | 0 | 1 | 141 | 19,961 | 4 | 0 | 1 | 143 | 11,155 | 3 | 0 | 0 | 81 |
| | | | | TSS | 18,312 | 4 | 0 | 2 | 131 | 19,727 | 4 | 0 | 2 | 141 | 19,977 | 4 | 0 | 2 | 143 | 11,149 | 3 | 0 | 0 | 81 |
| | | | | TSM | 18,266 | 4 | 0 | 2 | 130 | 19,677 | 4 | 0 | 2 | 141 | 19,926 | 4 | 0 | 2 | 142 | 11,096 | 3 | 0 | 2 | 81 |
| | | | | ISW | 18,146 | 5 | 0 | 3 | 130 | 19,548 | 5 | 0 | 3 | 140 | 19,796 | 5 | 0 | 3 | 141 | 10,957 | 3 | 0 | 2 | 80 |
| | | | | BLC | 14,424 | 2 | 0 | 2 | 103 | 15,539 | 2 | 0 | 3 | 111 | 15,736 | 2 | 0 | 3 | 112 | | | | | |
| | | | | LCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 10,733 | 1 | 0 | 3 | 77 | 11,562 | 1 | 0 | 3 | 83 | 11,709 | 2 | 0 | 3 | 84 | | | | | |
| | | | | 80 | 700 | P2 | 185W | T1S | 22,305 | 3 | 0 | 3 | 121 | 24,029 | 3 | 0 | 3 | 130 | 24,333 | 3 | 0 | 3 | 132 | 13,362 |
| T2S | 22,281 | 3 | 0 | | | | | 4 | 120 | 24,003 | 3 | 0 | 4 | 130 | 24,307 | 3 | 0 | 4 | 131 | 13,116 | 2 | 0 | 2 | 70 |
| T2M | 22,396 | 3 | 0 | | | | | 3 | 121 | 24,127 | 3 | 0 | 3 | 130 | 24,432 | 3 | 0 | 3 | 132 | 13,138 | 2 | 0 | 2 | 70 |
| T3S | 21,690 | 3 | 0 | | | | | 4 | 117 | 23,366 | 3 | 0 | 4 | 126 | 23,662 | 3 | 0 | 4 | 128 | 13,110 | 2 | 0 | 2 | 70 |
| T3M | 22,342 | 3 | 0 | | | | | 4 | 121 | 24,068 | 3 | 0 | 4 | 130 | 24,373 | 3 | 0 | 4 | 132 | 13,135 | 2 | 0 | 3 | 70 |
| T4M | 21,857 | 3 | 0 | | | | | 4 | 118 | 23,545 | 3 | 0 | 4 | 127 | 23,844 | 3 | 0 | 4 | 129 | 13,108 | 2 | 0 | 2 | 70 |
| TFIM | 22,738 | 3 | 0 | | | | | 4 | 121 | 24,054 | 3 | 0 | 4 | 130 | 24,358 | 3 | 0 | 4 | 132 | 13,349 | 2 | 0 | 2 | 71 |
| TSVS | 23,222 | 5 | 0 | | | | | 1 | 126 | 25,016 | 5 | 0 | 1 | 135 | 25,331 | 5 | 0 | 1 | 137 | 13,864 | 3 | 0 | 1 | 74 |
| TSS | 23,241 | 4 | 0 | | | | | 2 | 126 | 25,037 | 4 | 0 | 2 | 135 | 25,354 | 4 | 0 | 2 | 137 | 13,856 | 3 | 0 | 1 | 74 |
| TSM | 23,182 | 5 | 0 | | | | | 3 | 125 | 24,974 | 5 | 0 | 3 | 135 | 25,290 | 5 | 0 | 3 | 137 | 13,790 | 3 | 0 | 2 | 73 |
| TSW | 23,030 | 5 | 0 | | | | | 4 | 124 | 24,810 | 5 | 0 | 4 | 134 | 25,124 | 5 | 0 | 4 | 136 | 13,617 | 4 | 0 | 2 | 72 |
| BLC | 18,307 | 2 | 0 | | | | | 3 | 99 | 19,721 | 2 | 0 | 3 | 107 | 19,971 | 2 | 0 | 3 | 108 | | | | | |
| LCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 13,622 | 2 | 0 | | | | | 3 | 74 | 14,674 | 2 | 0 | 4 | 79 | 14,860 | 2 | 0 | 4 | 80 | | | | | |
| 80 | 850 | P3 | 217W | | | | | T1S | 26,202 | 3 | 0 | 3 | 121 | 28,226 | 3 | 0 | 3 | 130 | 28,584 | 3 | 0 | 3 | 132 | |
| | | | | T2S | 26,174 | 3 | 0 | 4 | 121 | 28,196 | 3 | 0 | 4 | 130 | 28,553 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T2M | 26,309 | 3 | 0 | 3 | 121 | 28,342 | 3 | 0 | 3 | 131 | 28,700 | 3 | 0 | 3 | 132 | | | | | |
| | | | | T3S | 25,479 | 3 | 0 | 4 | 117 | 27,448 | 3 | 0 | 4 | 126 | 27,795 | 3 | 0 | 4 | 128 | | | | | |
| | | | | T3M | 26,245 | 3 | 0 | 4 | 121 | 28,773 | 3 | 0 | 4 | 130 | 28,631 | 3 | 0 | 4 | 132 | | | | | |
| | | | | T4M | 25,675 | 3 | 0 | 4 | 118 | 27,659 | 3 | 0 | 4 | 127 | 28,009 | 3 | 0 | 4 | 129 | | | | | |
| | | | | TFIM | 26,229 | 3 | 0 | 4 | 121 | 28,755 | 3 | 0 | 4 | 130 | 28,613 | 3 | 0 | 4 | 132 | | | | | |
| | | | | TSVS | 27,779 | 5 | 0 | 1 | 126 | 29,387 | 5 | 0 | 1 | 135 | 29,759 | 5 | 0 | 1 | 137 | | | | | |
| | | | | TSS | 27,301 | 4 | 0 | 2 | 126 | 29,410 | 5 | 0 | 2 | 136 | 29,783 | 5 | 0 | 2 | 137 | | | | | |
| | | | | TSM | 27,232 | 5 | 0 | 3 | 125 | 29,336 | 5 | 0 | 3 | 135 | 29,707 | 5 | 0 | 3 | 137 | | | | | |
| | | | | TSW | 27,053 | 5 | 0 | 4 | 125 | 29,144 | 5 | 0 | 4 | 134 | 29,513 | 5 | 0 | 4 | 136 | | | | | |
| | | | | BLC | 21,504 | 2 | 0 | 3 | 99 | 23,166 | 2 | 0 | 3 | 107 | 23,459 | 2 | 0 | 4 | 108 | | | | | |
| | | | | LCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | RCCO | 16,001 | 2 | 0 | 4 | 74 | 17,238 | 2 | 0 | 4 | 79 | 17,456 | 2 | 0 | 4 | 80 | | | | | |
| | | | | 80 | 1050 | P4 | 270W | T1S | 30,963 | 4 | 0 | 4 | 115 | 33,355 | 4 | 0 | 4 | 124 | 33,777 | 4 | 0 | 4 | 125 | 18,125 |
| T2S | 30,930 | 4 | 0 | | | | | 4 | 115 | 33,320 | 4 | 0 | 4 | 123 | 33,742 | 4 | 0 | 4 | 125 | 17,791 | 3 | 0 | 3 | 63 |
| T2M | 31,089 | 3 | 0 | | | | | 4 | 115 | 33,491 | 3 | 0 | 4 | 124 | 33,915 | 3 | 0 | 4 | 126 | 17,821 | 3 | 0 | 3 | 63 |
| T3S | 30,108 | 4 | 0 | | | | | 4 | 112 | 32,435 | 4 | 0 | 5 | 120 | 32,845 | 4 | 0 | 5 | 122 | 17,782 | 2 | 0 | 2 | 63 |
| T3M | 31,014 | 3 | 0 | | | | | 4 | 115 | 33,410 | 3 | 0 | 4 | 124 | 33,833 | 3 | 0 | 4 | 125 | 17,817 | 3 | 0 | 3 | 63 |
| T4M | 30,340 | 3 | 0 | | | | | 5 | 112 | 32,684 | 3 | 0 | 5 | 121 | 33,098 | 3 | 0 | 5 | 123 | 17,779 | 2 | 0 | 3 | 63 |
| TFIM | 30,995 | 3 | 0 | | | | | 5 | 115 | 33,390 | 3 | 0 | 5 | 124 | 33,812 | 3 | 0 | 5 | 125 | 18,107 | 2 | 0 | 3 | 64 |
| TSVS | 32,235 | 5 | 0 | | | | | 1 | 119 | 34,726 | 5 | 0 | 1 | 129 | 35,166 | 5 | 0 | 1 | 130 | 18,794 | 3 | 0 | 1 | 67 |
| TSS | 32,261 | 5 | 0 | | | | | 2 | 119 | 34,754 | 5 | 0 | 2 | 129 | 35,194 | 5 | 0 | 2 | 130 | 18,805 | 3 | 0 | 1 | 67 |
| TSM | 32,180 | 5 | 0 | | | | | 4 | 119 | 34,667 | 5 | 0 | 4 | 128 | 35,105 | 5 | 0 | 4 | 130 | 18,705 | 4 | 0 | 2 | 66 |
| TSW | 31,969 | 5 | 0 | | | | | 4 | 118 | 34,439 | 5 | 0 | 5 | 128 | 34,875 | 5 | 0 | 5 | 129 | 18,740 | 4 | 0 | 2 | 66 |
| BLC | 25,412 | 2 | 0 | | | | | 4 | 94 | 27,376 | 2 | 0 | 4 | 101 | 27,722 | 2 | 0 | 4 | 103 | | | | | |
| LCCO | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |
| | 18,909 | 2 | 0 | | | | | 4 | 70 | 20,370 | 2 | 0 | 4 | 75 | 20,628 | 2 | 0 | 4 | 76 | | | | | |



| | | | |
|---|---|--|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD | Type
S13 |
| | Submitted By
LIGHT SOURCE | Notes
Please confirm mounting and finish | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

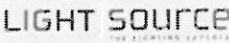
| Forward Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|----|------|-----|--------|----------------------|---|---|-----|--------|----------------------|---|---|-----|--------|---------------------------------|---|---|-----|-------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBPC (Ambient Phosphor Coated) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 80 | 1250 | P5 | 321W | T1S | 35,193 | 4 | 0 | 4 | 110 | 37,912 | 4 | 0 | 4 | 118 | 38,392 | 4 | 0 | 4 | 120 | 2,541 | 1 | 0 | 1 | 73 |
| | | | | T2S | 35,155 | 4 | 0 | 5 | 110 | 37,872 | 4 | 0 | 5 | 118 | 38,351 | 4 | 0 | 5 | 119 | 2,589 | 1 | 0 | 1 | 74 |
| | | | | T2M | 35,336 | 4 | 0 | 4 | 110 | 38,067 | 4 | 0 | 4 | 119 | 38,549 | 4 | 0 | 4 | 120 | 2,539 | 1 | 0 | 1 | 73 |
| | | | | T3S | 34,722 | 4 | 0 | 5 | 107 | 36,866 | 4 | 0 | 5 | 115 | 37,333 | 4 | 0 | 5 | 116 | 2,558 | 1 | 0 | 1 | 73 |
| | | | | T3M | 35,251 | 3 | 0 | 4 | 110 | 37,974 | 3 | 0 | 5 | 118 | 38,455 | 4 | 0 | 5 | 120 | 2,583 | 1 | 0 | 1 | 74 |
| | | | | T4M | 34,485 | 3 | 0 | 5 | 107 | 37,149 | 4 | 0 | 5 | 116 | 37,620 | 4 | 0 | 5 | 117 | 2,570 | 1 | 0 | 1 | 73 |
| | | | | TFIM | 35,229 | 3 | 0 | 5 | 110 | 37,951 | 3 | 0 | 5 | 118 | 38,431 | 3 | 0 | 5 | 120 | 2,540 | 1 | 0 | 1 | 73 |
| | | | | TSVS | 36,639 | 5 | 0 | 1 | 114 | 39,470 | 5 | 0 | 1 | 123 | 39,970 | 5 | 0 | 1 | 125 | 2,650 | 1 | 0 | 0 | 76 |
| | | | | TSS | 36,669 | 5 | 0 | 2 | 114 | 39,507 | 5 | 0 | 2 | 123 | 40,002 | 5 | 0 | 2 | 125 | 2,690 | 1 | 0 | 0 | 77 |
| | | | | TSM | 36,576 | 5 | 0 | 4 | 114 | 39,403 | 5 | 0 | 4 | 123 | 39,901 | 5 | 0 | 4 | 124 | 2,658 | 2 | 0 | 0 | 76 |
| | | | | TSW | 36,336 | 5 | 0 | 5 | 113 | 39,144 | 5 | 0 | 5 | 122 | 39,640 | 5 | 0 | 5 | 123 | 2,661 | 2 | 0 | 1 | 73 |
| | | | | BLC | 28,884 | 3 | 0 | 4 | 90 | 31,115 | 3 | 0 | 4 | 97 | 31,509 | 3 | 0 | 4 | 98 | | | | | |
| | | | | LCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | RCCO | 21,492 | 2 | 0 | 4 | 67 | 23,153 | 2 | 0 | 5 | 72 | 23,446 | 3 | 0 | 5 | 73 | | | | | |
| | | | | 100 | 1050 | P6 | 343W | T1S | 37,824 | 4 | 0 | 4 | 110 | 40,747 | 4 | 0 | 4 | 119 | 41,263 | 4 | 0 | 4 | 120 | 3,144 |
| T2S | 37,784 | 4 | 0 | | | | | 5 | 110 | 40,704 | 4 | 0 | 5 | 119 | 41,219 | 4 | 0 | 5 | 120 | 3,203 | 1 | 0 | 1 | 71 |
| T2M | 37,979 | 4 | 0 | | | | | 4 | 111 | 40,913 | 4 | 0 | 4 | 119 | 41,431 | 4 | 0 | 4 | 121 | 3,141 | 1 | 0 | 1 | 70 |
| T3S | 36,740 | 4 | 0 | | | | | 5 | 107 | 39,623 | 4 | 0 | 5 | 116 | 40,124 | 4 | 0 | 5 | 117 | 3,165 | 1 | 0 | 1 | 70 |
| T3M | 37,886 | 3 | 0 | | | | | 5 | 110 | 40,814 | 4 | 0 | 5 | 119 | 41,331 | 4 | 0 | 5 | 120 | 3,196 | 1 | 0 | 1 | 71 |
| T4M | 37,063 | 4 | 0 | | | | | 5 | 108 | 39,927 | 4 | 0 | 5 | 116 | 40,433 | 4 | 0 | 5 | 118 | 3,179 | 1 | 0 | 1 | 71 |
| TFIM | 37,867 | 3 | 0 | | | | | 5 | 110 | 40,789 | 4 | 0 | 5 | 119 | 41,305 | 4 | 0 | 5 | 120 | 3,143 | 1 | 0 | 1 | 70 |
| TSVS | 39,379 | 5 | 0 | | | | | 1 | 115 | 42,422 | 5 | 0 | 1 | 124 | 42,959 | 5 | 0 | 1 | 125 | 3,278 | 2 | 0 | 0 | 73 |
| TSS | 39,411 | 5 | 0 | | | | | 2 | 115 | 42,456 | 5 | 0 | 2 | 124 | 42,993 | 5 | 0 | 2 | 125 | 3,328 | 2 | 0 | 0 | 74 |
| TSM | 39,311 | 5 | 0 | | | | | 4 | 115 | 42,349 | 5 | 0 | 4 | 123 | 42,885 | 5 | 0 | 4 | 125 | 3,288 | 2 | 0 | 1 | 73 |
| TSW | 39,053 | 5 | 0 | | | | | 5 | 114 | 42,071 | 5 | 0 | 5 | 123 | 42,604 | 5 | 0 | 5 | 124 | 3,295 | 2 | 0 | 1 | 73 |
| BLC | 31,043 | 3 | 0 | | | | | 4 | 91 | 33,442 | 3 | 0 | 4 | 97 | 33,865 | 3 | 0 | 4 | 99 | | | | | |
| LCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,099 | 2 | 0 | | | | | 5 | 67 | 24,884 | 3 | 0 | 5 | 73 | 25,199 | 3 | 0 | 5 | 73 | | | | | |
| 100 | 1250 | P7 | 398W | | | | | T1S | 42,599 | 4 | 0 | 4 | 107 | 45,890 | 4 | 0 | 4 | 115 | 46,471 | 4 | 0 | 4 | 117 | |
| | | | | T2S | 42,553 | 4 | 0 | 5 | 107 | 45,942 | 4 | 0 | 5 | 115 | 46,472 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T2M | 42,773 | 4 | 0 | 4 | 107 | 46,078 | 4 | 0 | 4 | 116 | 46,661 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,423 | 4 | 0 | 5 | 104 | 44,624 | 4 | 0 | 5 | 112 | 45,189 | 4 | 0 | 5 | 114 | | | | | |
| | | | | T3M | 42,669 | 4 | 0 | 5 | 107 | 45,966 | 4 | 0 | 5 | 115 | 46,548 | 4 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 41,742 | 4 | 0 | 5 | 105 | 44,967 | 4 | 0 | 5 | 113 | 45,537 | 4 | 0 | 5 | 114 | | | | | |
| | | | | TFIM | 42,643 | 4 | 0 | 5 | 107 | 45,938 | 4 | 0 | 5 | 115 | 46,519 | 4 | 0 | 5 | 117 | | | | | |
| | | | | TSVS | 44,350 | 5 | 0 | 1 | 111 | 47,777 | 5 | 0 | 1 | 120 | 48,381 | 5 | 0 | 1 | 122 | | | | | |
| | | | | TSS | 44,385 | 5 | 0 | 2 | 112 | 47,815 | 5 | 0 | 2 | 120 | 48,420 | 5 | 0 | 2 | 122 | | | | | |
| | | | | TSM | 44,273 | 5 | 0 | 4 | 111 | 47,695 | 5 | 0 | 4 | 120 | 48,298 | 5 | 0 | 4 | 121 | | | | | |
| | | | | TSW | 43,983 | 5 | 0 | 5 | 111 | 47,382 | 5 | 0 | 5 | 119 | 47,982 | 5 | 0 | 5 | 121 | | | | | |
| | | | | BLC | 34,962 | 3 | 0 | 4 | 88 | 37,664 | 3 | 0 | 5 | 95 | 38,140 | 3 | 0 | 5 | 96 | | | | | |
| | | | | LCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | RCCO | 26,015 | 3 | 0 | 5 | 65 | 28,025 | 3 | 0 | 5 | 70 | 28,380 | 3 | 0 | 5 | 71 | | | | | |
| | | | | 100 | 1350 | P8 | 448W | T1S | 45,610 | 4 | 0 | 4 | 106 | 49,135 | 4 | 0 | 4 | 114 | 49,757 | 4 | 0 | 4 | 115 | |
| T2S | 45,562 | 4 | 0 | | | | | 5 | 106 | 49,083 | 4 | 0 | 5 | 114 | 49,704 | 4 | 0 | 5 | 115 | | | | | |
| T2M | 45,797 | 4 | 0 | | | | | 4 | 106 | 49,336 | 4 | 0 | 5 | 114 | 49,960 | 4 | 0 | 5 | 116 | | | | | |
| T3S | 44,352 | 4 | 0 | | | | | 5 | 103 | 47,779 | 4 | 0 | 5 | 111 | 48,384 | 4 | 0 | 5 | 112 | | | | | |
| T3M | 45,686 | 4 | 0 | | | | | 5 | 106 | 49,216 | 4 | 0 | 5 | 114 | 49,839 | 4 | 0 | 5 | 116 | | | | | |
| T4M | 44,693 | 4 | 0 | | | | | 5 | 104 | 48,147 | 4 | 0 | 5 | 112 | 48,756 | 4 | 0 | 5 | 113 | | | | | |
| TFIM | 45,657 | 4 | 0 | | | | | 5 | 106 | 49,186 | 4 | 0 | 5 | 114 | 49,808 | 4 | 0 | 5 | 116 | | | | | |
| TSVS | 47,485 | 5 | 0 | | | | | 1 | 110 | 51,155 | 5 | 0 | 1 | 119 | 51,802 | 5 | 0 | 1 | 120 | | | | | |
| TSS | 47,524 | 5 | 0 | | | | | 3 | 110 | 51,196 | 5 | 0 | 3 | 119 | 51,844 | 5 | 0 | 3 | 120 | | | | | |
| TSM | 47,404 | 5 | 0 | | | | | 4 | 110 | 51,067 | 5 | 0 | 5 | 118 | 51,713 | 5 | 0 | 5 | 120 | | | | | |
| TSW | 47,093 | 5 | 0 | | | | | 5 | 109 | 50,732 | 5 | 0 | 5 | 118 | 51,374 | 5 | 0 | 5 | 119 | | | | | |
| BLC | 37,434 | 3 | 0 | | | | | 5 | 87 | 40,126 | 3 | 0 | 5 | 94 | 40,837 | 3 | 0 | 5 | 95 | | | | | |
| LCCO | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |
| RCCO | 27,854 | 3 | 0 | | | | | 5 | 65 | 30,006 | 3 | 0 | 5 | 70 | 30,386 | 3 | 0 | 5 | 71 | | | | | |

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

| Rotated Optics | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|---------------|--------------|------------|----------------------|--------|------|-----|--------|----------------------|--------|---|-----|--------|----------------------|---|---|-----|--------|------------------------------------|---|---|-----|--------|
| LED Count | Drive Current | Power Package | System Watts | Dist. Type | 30K (3000 K, 70 CRI) | | | | | 40K (4000 K, 70 CRI) | | | | | 50K (5000 K, 70 CRI) | | | | | AMBEC (Ambient Phosphor Coverters) | | | | |
| | | | | | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW | Lumens | B | U | G | LPW |
| 90 | 530 | P10 | 156W | T1S | 20,145 | 4 | 0 | 4 | 129 | 21,702 | 4 | 0 | 4 | 139 | 21,977 | 4 | 0 | 4 | 141 | 11,475 | 3 | 0 | 3 | 77 |
| | | | | T2S | 20,029 | 4 | 0 | 4 | 128 | 21,577 | 4 | 0 | 4 | 138 | 21,850 | 4 | 0 | 4 | 140 | 11,446 | 3 | 0 | 3 | 76 |
| | | | | T2M | 20,391 | 4 | 0 | 4 | 131 | 21,967 | 4 | 0 | 4 | 141 | 22,245 | 4 | 0 | 4 | 143 | 11,467 | 3 | 0 | 3 | 76 |
| | | | | T3S | 19,719 | 4 | 0 | 4 | 126 | 21,242 | 4 | 0 | 4 | 136 | 21,511 | 4 | 0 | 4 | 138 | 11,447 | 3 | 0 | 3 | 76 |
| | | | | T3M | 20,379 | 4 | 0 | 4 | 131 | 21,954 | 4 | 0 | 4 | 141 | 22,232 | 4 | 0 | 4 | 143 | 11,464 | 4 | 0 | 4 | 76 |
| | | | | T4M | 19,995 | 4 | 0 | 4 | 128 | 21,540 | 4 | 0 | 4 | 138 | 21,812 | 5 | 0 | 5 | 140 | 11,440 | 4 | 0 | 4 | 76 |
| | | | | TFTM | 20,511 | 4 | 0 | 4 | 131 | 22,096 | 5 | 0 | 5 | 142 | 22,376 | 5 | 0 | 5 | 143 | 11,651 | 4 | 0 | 4 | 78 |
| | | | | TSVS | 20,655 | 4 | 0 | 1 | 132 | 22,251 | 4 | 0 | 1 | 143 | 22,533 | 4 | 0 | 1 | 144 | 12,288 | 3 | 0 | 1 | 80 |
| | | | | TSS | 20,482 | 4 | 0 | 2 | 131 | 22,064 | 4 | 0 | 2 | 141 | 22,343 | 4 | 0 | 2 | 143 | 11,976 | 3 | 0 | 1 | 80 |
| | | | | TSM | 20,477 | 5 | 0 | 3 | 131 | 22,059 | 5 | 0 | 3 | 141 | 22,338 | 5 | 0 | 3 | 143 | 12,301 | 4 | 0 | 2 | 87 |
| | | | | TSW | 20,293 | 5 | 0 | 3 | 130 | 21,861 | 5 | 0 | 3 | 140 | 22,138 | 5 | 0 | 4 | 142 | 12,109 | 4 | 0 | 2 | 81 |
| | | | | BLC | 16,946 | 4 | 0 | 4 | 108 | 18,148 | 4 | 0 | 4 | 116 | 18,378 | 4 | 0 | 4 | 118 | | | | | |
| | | | | LCCO | 12,012 | 2 | 0 | 3 | 77 | 12,961 | 2 | 0 | 3 | 83 | 13,125 | 2 | 0 | 3 | 84 | | | | | |
| | | | | RCCO | 12,016 | 4 | 0 | 4 | 77 | 12,944 | 4 | 0 | 4 | 83 | 13,108 | 4 | 0 | 4 | 84 | | | | | |
| | | | | 90 | 700 | P11 | 207W | T1S | 25,518 | 4 | 0 | 4 | 123 | 27,490 | 4 | 0 | 4 | 133 | 27,837 | 4 | 0 | 4 | 134 | 14,387 |
| T2S | 25,371 | 5 | 0 | | | | | 5 | 123 | 27,331 | 5 | 0 | 5 | 132 | 27,677 | 5 | 0 | 5 | 134 | 14,354 | 3 | 0 | 3 | 70 |
| T2M | 25,829 | 4 | 0 | | | | | 4 | 125 | 27,825 | 4 | 0 | 4 | 134 | 28,177 | 4 | 0 | 4 | 136 | 14,378 | 4 | 0 | 4 | 70 |
| T3S | 24,977 | 5 | 0 | | | | | 5 | 121 | 26,907 | 5 | 0 | 5 | 130 | 27,248 | 5 | 0 | 5 | 132 | 14,347 | 4 | 0 | 4 | 70 |
| T3M | 25,814 | 5 | 0 | | | | | 5 | 125 | 27,809 | 5 | 0 | 5 | 134 | 28,161 | 5 | 0 | 5 | 136 | 14,374 | 4 | 0 | 4 | 70 |
| T4M | 25,327 | 5 | 0 | | | | | 5 | 122 | 27,284 | 5 | 0 | 5 | 132 | 27,629 | 5 | 0 | 5 | 133 | 14,344 | 4 | 0 | 4 | 70 |
| TFTM | 25,981 | 5 | 0 | | | | | 5 | 126 | 27,989 | 5 | 0 | 5 | 135 | 28,343 | 5 | 0 | 5 | 137 | 15,408 | 4 | 0 | 1 | 75 |
| TSVS | 26,164 | 5 | 0 | | | | | 1 | 126 | 28,185 | 5 | 0 | 1 | 136 | 28,542 | 5 | 0 | 1 | 138 | 15,019 | 4 | 0 | 1 | 73 |
| TSS | 25,943 | 4 | 0 | | | | | 2 | 125 | 27,948 | 5 | 0 | 2 | 135 | 28,302 | 5 | 0 | 2 | 137 | 15,424 | 4 | 0 | 2 | 75 |
| TSM | 25,937 | 5 | 0 | | | | | 3 | 125 | 27,941 | 5 | 0 | 3 | 135 | 28,295 | 5 | 0 | 3 | 137 | 14,609 | 4 | 0 | 4 | 71 |
| TSW | 25,704 | 5 | 0 | | | | | 4 | 124 | 27,691 | 5 | 0 | 4 | 134 | 28,041 | 5 | 0 | 4 | 135 | 15,182 | 4 | 0 | 2 | 74 |
| BLC | 21,339 | 4 | 0 | | | | | 4 | 103 | 22,988 | 4 | 0 | 4 | 111 | 23,279 | 4 | 0 | 4 | 112 | | | | | |
| LCCO | 15,240 | 2 | 0 | | | | | 4 | 74 | 16,418 | 2 | 0 | 4 | 79 | 16,626 | 2 | 0 | 4 | 80 | | | | | |
| RCCO | 15,220 | 5 | 0 | | | | | 5 | 74 | 16,396 | 5 | 0 | 5 | 79 | 16,604 | 5 | 0 | 5 | 80 | | | | | |
| 90 | 850 | P12 | 254W | | | | | T1S | 29,912 | 4 | 0 | 4 | 118 | 32,723 | 4 | 0 | 4 | 127 | 32,651 | 5 | 0 | 4 | 128 | |
| | | | | T2S | 29,740 | 5 | 0 | 5 | 117 | 32,038 | 5 | 0 | 5 | 126 | 32,443 | 5 | 0 | 5 | 128 | | | | | |
| | | | | T2M | 30,277 | 4 | 0 | 4 | 119 | 32,616 | 5 | 0 | 5 | 128 | 33,029 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T3S | 29,278 | 5 | 0 | 5 | 115 | 31,540 | 5 | 0 | 5 | 124 | 31,940 | 5 | 0 | 5 | 126 | | | | | |
| | | | | T3M | 30,259 | 5 | 0 | 5 | 119 | 32,597 | 5 | 0 | 5 | 128 | 33,010 | 5 | 0 | 5 | 130 | | | | | |
| | | | | T4M | 29,628 | 5 | 0 | 5 | 117 | 31,982 | 5 | 0 | 5 | 126 | 32,387 | 5 | 0 | 5 | 128 | | | | | |
| | | | | TFTM | 30,455 | 5 | 0 | 5 | 120 | 32,808 | 5 | 0 | 5 | 129 | 33,224 | 5 | 0 | 5 | 131 | | | | | |
| | | | | TSVS | 30,669 | 5 | 0 | 1 | 121 | 33,039 | 5 | 0 | 1 | 130 | 33,457 | 5 | 0 | 1 | 132 | | | | | |
| | | | | TSS | 30,411 | 5 | 0 | 2 | 120 | 32,761 | 5 | 0 | 2 | 129 | 33,176 | 5 | 0 | 2 | 131 | | | | | |
| | | | | TSM | 30,404 | 5 | 0 | 3 | 120 | 32,753 | 5 | 0 | 3 | 129 | 33,168 | 5 | 0 | 3 | 131 | | | | | |
| | | | | TSW | 30,131 | 5 | 0 | 4 | 119 | 32,459 | 5 | 0 | 4 | 128 | 32,870 | 5 | 0 | 4 | 129 | | | | | |
| | | | | BLC | 25,013 | 4 | 0 | 4 | 98 | 26,946 | 4 | 0 | 4 | 106 | 27,287 | 4 | 0 | 4 | 107 | | | | | |
| | | | | LCCO | 17,865 | 2 | 0 | 4 | 70 | 19,245 | 2 | 0 | 4 | 76 | 19,489 | 2 | 0 | 4 | 77 | | | | | |
| | | | | RCCO | 17,841 | 5 | 0 | 5 | 70 | 19,220 | 5 | 0 | 5 | 76 | 19,463 | 5 | 0 | 5 | 77 | | | | | |
| | | | | 90 | 1200 | P13 | 344W | T1S | 38,768 | 5 | 0 | 5 | 113 | 41,764 | 5 | 0 | 5 | 121 | 42,292 | 5 | 0 | 5 | 123 | |
| T2S | 38,545 | 5 | 0 | | | | | 5 | 112 | 41,523 | 5 | 0 | 5 | 121 | 42,049 | 5 | 0 | 5 | 122 | | | | | |
| T2M | 39,241 | 5 | 0 | | | | | 5 | 114 | 42,173 | 5 | 0 | 5 | 123 | 42,808 | 5 | 0 | 5 | 124 | | | | | |
| T3S | 37,947 | 5 | 0 | | | | | 5 | 110 | 40,879 | 5 | 0 | 5 | 119 | 41,396 | 5 | 0 | 5 | 120 | | | | | |
| T3M | 39,218 | 5 | 0 | | | | | 5 | 114 | 42,249 | 5 | 0 | 5 | 123 | 42,783 | 5 | 0 | 5 | 124 | | | | | |
| T4M | 38,478 | 5 | 0 | | | | | 5 | 112 | 41,451 | 5 | 0 | 5 | 120 | 41,976 | 5 | 0 | 5 | 122 | | | | | |
| TFTM | 39,472 | 5 | 0 | | | | | 5 | 115 | 42,522 | 5 | 0 | 5 | 124 | 43,060 | 5 | 0 | 5 | 125 | | | | | |
| TSVS | 39,749 | 5 | 0 | | | | | 1 | 116 | 42,821 | 5 | 0 | 1 | 124 | 43,363 | 5 | 0 | 1 | 126 | | | | | |
| TSS | 39,415 | 5 | 0 | | | | | 2 | 115 | 42,461 | 5 | 0 | 2 | 123 | 42,998 | 5 | 0 | 2 | 125 | | | | | |
| TSM | 39,405 | 5 | 0 | | | | | 4 | 115 | 42,450 | 5 | 0 | 4 | 123 | 42,988 | 5 | 0 | 4 | 125 | | | | | |
| TSW | 39,052 | 5 | 0 | | | | | 5 | 114 | 42,069 | 5 | 0 | 5 | 122 | 42,602 | 5 | 0 | 5 | 124 | | | | | |
| BLC | 32,419 | 5 | 0 | | | | | 5 | 94 | 34,925 | 5 | 0 | 5 | 102 | 35,367 | 5 | 0 | 5 | 103 | | | | | |
| LCCO | 23,154 | 3 | 0 | | | | | 5 | 67 | 24,943 | 3 | 0 | 5 | 73 | 25,259 | 3 | 0 | 5 | 73 | | | | | |
| RCCO | 23,124 | 5 | 0 | | | | | 5 | 67 | 24,910 | 5 | 0 | 5 | 72 | 25,226 | 5 | 0 | 5 | 73 | | | | | |
| 90 | 1400 | P14 | 405W | | | | | T1S | 42,867 | 5 | 0 | 5 | 106 | 46,180 | 5 | 0 | 5 | 114 | 46,764 | 5 | 0 | 5 | 115 | |
| | | | | T2S | 42,621 | 5 | 0 | 5 | 105 | 45,914 | 5 | 0 | 5 | 113 | 46,495 | 5 | 0 | 5 | 115 | | | | | |
| | | | | T2M | 43,390 | 5 | 0 | 5 | 107 | 46,743 | 5 | 0 | 5 | 115 | 47,335 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T3S | 41,950 | 5 | 0 | 5 | 104 | 45,201 | 5 | 0 | 5 | 112 | 45,773 | 5 | 0 | 5 | 113 | | | | | |
| | | | | T3M | 43,365 | 5 | 0 | 5 | 107 | 46,716 | 5 | 0 | 5 | 115 | 47,307 | 5 | 0 | 5 | 117 | | | | | |
| | | | | T4M | 42,547 | 5 | 0 | 5 | 105 | 45,834 | 5 | 0 | 5 | 113 | 46,414 | 5 | 0 | 5 | 115 | | | | | |
| | | | | TFTM | 43,646 | 5 | 0 | 5 | 108 | 47,018 | 5 | 0 | 5 | 116 | 47,614 | 5 | 0 | 5 | 118 | | | | | |
| | | | | TSVS | 43,952 | 5 | 0 | 1 | 109 | 47,349 | 5 | 0 | 1 | 117 | 47,948 | 5 | 0 | 1 | 118 | | | | | |
| | | | | TSS | 43,583 | 5 | 0 | 2 | 108 | 46,950 | 5 | 0 | 2 | 116 | 47,545 | 5 | 0 | 2 | 117 | | | | | |
| | | | | TSM | 43,572 | 5 | 0 | 4 | 108 | 46,939 | 5 | 0 | 4 | 116 | 47,533 | 5 | 0 | 4 | 117 | | | | | |
| | | | | TSW | 43,181 | 5 | 0 | 5 | 107 | 46,518 | 5 | 0 | 5 | 115 | 47,107 | 5 | 0 | 5 | 116 | | | | | |
| | | | | BLC | 35,847 | 5 | 0 | 5 | 89 | 38,617 | 5 | 0 | 5 | 95 | 39,106 | 5 | 0 | 5 | 97 | | | | | |
| | | | | LCCO | 25,602 | 3 | 0 | 5 | 63 | 27,580 | 3 | 0 | 5 | 68 | 27,930 | 3 | 0 | 5 | 69 | | | | | |
| | 25,569 | 5 | 0 | 5 | 63 | 27,544 | 5 | 0 | 5 | 68 | 27,893 | 5 | 0 | 5 | 69 | | | | | | | | | |

| | | | |
|---|---|---|--------------------|
|  | Project 17-49300-0
Westfield Intermediate School

Submitted By
LIGHT SOURCE | Catalog Number
DSX2 LED P5 40K T5W MVOLT RPUMBA DDBXD

Notes
Please confirm mounting and finish | Type
S13 |
|---|---|---|--------------------|

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Area Size 2 reflects the embedded high performance LED technology. It is ideal for applications like car dealerships and large parking lots adjacent to malls, transit stations, grocery stores, home centers, and other big-box retailers.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.1 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K, or 5000 K (70 CRI) configurations. The D-Series Size 2 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hrs at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily-serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 2 to withstand up to a 2.0 G vibration load rating per ANSI C136.31. The D-Series Size 2 utilizes the AERIS™ series pole drilling pattern (Template #8). NEMA photocontrol receptacle is available.

LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D670,857 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlightsconsortium.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at:

www.dsx2-led.com/warranty

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





WESTFIELD-WASHINGTON
ADVISORY PLAN COMMISSION

March 19, 2018
1802-DDP-04

Petition Number: 1802-DDP-04
Project Name: Westfield Intermediate School Expansion
Subject Site Address: 326 W. Main Street
Petitioner: Westfield Washington Schools
Representative: Cripe Engineering
Request: Petitioner requests Detailed Development Plan review of a 36,384 square foot +/- building addition on approximately 5.8 acres +/- in the SF:3 Single-Family Medium Density District.
Current Zoning: SF-3
Current Land Use: Institutional
Approximate Acreage: 5.8 acres +/-
Exhibits:

1. Staff Report
2. Location Map
3. Development Plan
4. Building Elevations
5. Landscape Plan
6. Lighting Plan

Staff Reviewer: Kevin M. Todd, AICP

PROCEDURAL

Approval of a Development Plan must be granted if the submitted plan demonstrates compliance with the terms of the underlying zoning district, subdivision control ordinance and/or applicable zoning district, any variances associated with the site, and any commitments associated with the site.

BACKGROUND

The Technical Advisory Committee reviewed the petition at their January 23, 2018, meeting.



DEVELOPMENT PLAN REVIEW (Article 10.7(E) of the UDO):

The plans comply.

- 1) Compliance with all applicable development and design standards of the Zoning District in which the real estate is located.
- 2) Compliance with all applicable provisions of any Overlay District in which the real estate is located.
- 3) Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
 - a) The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
 - b) The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
 - c) The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
- 4) The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

DEVELOPMENT PLAN DOCUMENTATION REQUIREMENTS (Article 10.7(H) of UDO)

The plans comply.

- 5) Development Plan Scope: A Detailed Development Plan shall include all details specific to the individual Lot that is the subject of the application.
- 6) Scale not more than 1"=100'
- 7) Title, scale, north arrow and date.
- 8) Proposed name of the development.
- 9) Area map insert showing the general location of the site referenced to Streets, section lines and alternative transportation plan system, as well as the Zoning District and use of adjacent property;
- 10) Address and legal description of the property.
- 11) Boundary lines of the property including all dimensions.
- 12) Alleys, access easements and alternative transportation plan system improvements that are existing or proposed to be located within or adjacent to the property.
- 13) Location, centerline and width (at the Lot Line) measurements of any proposed or existing Driveways within two hundred (200) feet of the property, and any connection to an Alley must be indicated.



- 14) Location and dimensions of primary vehicular ways in and around the proposed development, including depictions of all travel lanes, turning movements, vehicle storage areas and tapers.
 - 15) All proposed Street and Driveway improvements, both on and offsite, including measurement of curb radius and/or taper.
 - 16) Location and dimensions of existing and proposed sidewalks, pathways, trails or other alternate transportation plan improvements;
 - 17) Layout, number, dimension and area (in square feet and acres) of all Lots and Outlots with Building Setback Lines.
 - 18) Location and dimensions of all existing structures and paved areas.
 - 19) Location and dimensions of all proposed structures and paved areas (indicated by cross-hatching).
 - 20) Location of all Floodplain areas within the boundaries of the property.
 - 21) Names of legal ditches and streams on or adjacent to the site.
 - 22) Location and feasibility statement of all existing and proposed utility facilities and easements, including, but not limited to: sanitary sewer, water, storm water management, electric, gas, telephone and cable.
 - 23) Identify buildings proposed for demolition.
 - 24) Areas of the property reserved for Development Amenities, Open Space and other similar uses.
 - 25) Use of each Lot and/or building by labeling, including approximate density or size of proposed uses and buildings (e.g., number of parking spaces, Dwelling Units, Gross Floor Area, Living Area).
-



WESTFIELD UNIFIED DEVELOPMENT ORDINANCE

The plans comply.

Zoning Districts (Chapter 4)

26) SF-3 District (Article 4.6)

- a) Minimum Lot Area: 12,000 SF
- b) Minimum Lot Frontage: 50'
- c) Minimum Building Setback Lines:
 - i) Front Yard: 20'
 - ii) Side Yard: 10'
 - iii) Rear Yard: 30'
- d) Minimum Lot Width: 80'

Overlay Districts (Chapter 5)

27) U.S. Highway 31 Overlay District (Article 5.2)

Comment: The U.S. Highway Overlay District standards do not apply to this project, per Article 5.2(L).

28) Floodplain Overlay District (Article 5.5)

Comment: This project does not fall within a Floodplain.

29) Wellhead Protection District Overlay (Article 5.7)

Development Standards (Chapter 6)

30) Accessory Use and Building Standards (Article 6.1)

31) Architectural Standards (Article 6.3)

- a) No loading spaces or loading docks shall be permitted to face a Street.
- b) Loading spaces or loading docks facing or oriented to a Side or Rear Lot Line of an adjoining Residential District shall be screened from view from such Residential District by the use of: (i) evergreen trees; or, (ii) a combination of overstory, understory or evergreen trees and a solid wall or fence, which creates a dense visual barrier to a minimum height of six (6) feet.
- c) Building Materials: In order to ensure compatibility of non-residential uses with surrounding residential uses in Residential Districts, all nonresidential uses shall use exterior building

materials, roof line treatments and roofing materials that are compatible with and consistent with the residential character and building materials of the surrounding residential area.

32) Building Standards (Article 6.4)

33) Height Standards (Article 6.6)

34) Landscaping Standards (Article 6.8)

a) Placement: Installed plantings shall comply with the following:

- i. Clearance with Structures: Trees shall be planted so that when they reach maturity, there will be a minimum of five (5) feet of clearance between tree trunks and structures, building overhangs, walls, fences, and other trees.
- ii. Vision Clearance: Plantings and mounds shall also comply with Article 6.19 Vision Clearance Standards.
- iii. Right-of-way: With the exception of Street Trees, as required herein, or trees as may otherwise be approved by the Plan Commission or Public Works Department, landscape material shall not be planted or placed in Rights-of-way or easements without permission from the City or the easement holder.
- iv. Minimum Distance from Sidewalk and Curb: Trees shall be planted a minimum distance of four (4) feet from the edge of a Street curb or pedestrian pathway or sidewalk.
- v. Minimum Distance from Stormwater Structures: Trees shall be planted a minimum distance of ten (10) feet from any storm sewer or subsurface drain, unless otherwise permitted in accordance with the City's Construction Standards or approved in writing by the Public Works Department.
- vi. Easements: Required landscaping should be located in landscape easements or designated common areas that are exclusive of utility or drainage easements that would otherwise prohibit the required landscaping.
- vii. Arrangement: A natural or irregular row and spacing of plantings is preferred. Trees and shrubs should be grouped or clustered where possible to simulate natural tree stands.

b) Detention and Retention Areas:

i. Natural Appearance:

- (1) Detention and Retention Areas shall be landscaped in a manner that replicates the natural form of ponds and shall include shade trees, ornamental trees, evergreens, shrubs, hedges, and/or other plantings (see also Minimum Lot Landscaping Requirements and Article 8.6 Open Space and Amenity Standards).
- (2) Wetlands/aquatic vegetation planted around the wet perimeter of such areas should be utilized to further this design objective; however, if such plantings are utilized for water quality control, then landscape plans shall be prepared and stamped by a licensed landscape architect.

- (3) Detention and Retention Areas shall be designed to be natural in appearance, with meandering edges.
- ii. Location: Detention and Retention Areas should be located to enhance view sheds and incorporated as amenities to the development (see also Article 8.6 Open Space and Amenity Standards).
 - iii. Side Slopes: Side slopes above the water line for Retention Areas and water features shall not exceed 4:1. Side slopes above the water line for Detention Areas shall not exceed 4:1 and shall be graded to harmonize with the overall Open Space design of the site.

c) Minimum Lot Landscaping Requirements

| Inst. Use/5.8 acres | Required | Provided | Difference |
|-------------------------------|----------|-------------|------------|
| Shade Trees | 12 | 33 | +31 |
| Ornamental or Evergreen Trees | 18 | 18 existing | 0 |
| Shrubs | 58 | 251 | +193 |

d) Foundation Plantings

| Long Wall Expanses (over 80') | Required | Provided | Difference |
|---------------------------------------|-----------|-----------|------------|
| Courtyard facade (120') | Every 40' | Every 40' | Compliant |
| South facade of west expansion (165') | Every 40' | Every 40' | Compliant |

| Front Façade | Plantings | Required | Provided | Difference |
|------------------------------------|----------------------------|----------|----------|------------|
| West side of west expansion (185') | Shrubs or Ornamental Trees | 16 | 20 | +4 |

- e) Easements: Trees required to be planted along External Streets should be located outside drainage and utility easements that would otherwise prohibit the required landscaping and shall be located in a manner that mitigates interference with infrastructure located within such easements. Trees may be clustered or grouped in order to attain creative site design and/or to accommodate utility infrastructure.

f) Interior Parking Area Landscaping

| 2,754 SF Parking Area
West of Shamrock
Blvd | Required | Provided | Difference |
|--|--------------------------|--------------------------|-------------------|
| Island Area | 138 SF | 378 SF | +240 SF |
| Trees + Shrubs | 1 tree + 4 shrubs/island | 1 tree + 4 shrubs/island | Compliant |

| 20,400 SF Parking Area
East of Shamrock
Blvd | Required | Provided | Difference |
|---|--------------------------|--------------------------|-------------------|
| Island Area | 2,040 SF | 2,106 SF | +66 SF |
| Trees + Shrubs | 1 tree + 4 shrubs/island | 1 tree + 4 shrubs/island | Compliant |

21) Lighting Standards (Article 6.9)

- a) All Light Fixtures, with the exception of internally-illuminated signs or Electronic Signage, shall be Fully Shielded and direct light downward toward the earth's surface.
- b) All lighting sources shall be directed away from reflective surfaces to minimize glare upon adjacent Lots and Rights-of-way.
- c) All lighting sources, with the exception of internally-illuminated signage or Electronic Signage, shall be positioned in such a manner as to direct light away from adjacent Lots and Rights-of-way.
- d) Light pole height shall not exceed twenty-five (25) feet. All Light Fixtures in Parking Areas shall be designed and located to confine emitted light to the Parking Area.
- e) All Light Fixtures shall meet City Building Code requirements for their appropriate construction class.

22) Lot Standards (Article 6.10)

- a) All Lots shall abut on a Street or Private Street and shall have a minimum Lot Frontage as set forth by the Zoning District or Overlay District.
- b) Residential Corner Lots shall be of sufficient width to permit appropriate Building Setback Lines and driveway setbacks from both Streets.

23) Outdoor Storage and Display (Article 6.21)

24) Outdoor Café and Eating Areas (Article 6.13)

25) Parking Standards (Article 6.14)

26) Performance Standards (Article 6.15)

27) Setback Standards (Article 6.16)

28) Sign Standards (Article 6.17)

Comment: The Sign Standards will be reviewed during any future subsequent Sign Permit Application reviews. Any signs and/or sign locations depicted on a Detailed Development Plan shall not be deemed “Approved” by approval of the Detailed Development Plan.

29) Vision Clearance Standards (Article 6.19)

- a) No Sign, fence, wall, landscaping, Public Utility Installation or other Improvement which obstructs sight lines between three (3) and nine (9) feet above a Street shall be permitted on a Corner Lot, unless otherwise approved in writing by the Public Works Department, within the triangular area formed by the Right-of-way line and a line connecting points: Forty (40) feet from intersections of Collectors, Private or Local Street; Seventy-five (75) feet from intersections of Expressways or Arterials; Ten (10) feet from intersections of Driveways or Alleys.

30) Yard Standards (Article 6.21)

Design Standards (Chapter 8)

31) Block Standards (Article 8.1)

32) Easement Standards (Article 8.3)

33) Monument and Marker Standards (Article 8.5)

34) Open Space and Amenity Standards (Article 8.6)

35) Pedestrian Network Standards (Article 8.7)

- a) All concrete sidewalk, asphalt path, and crosswalk improvements shall be constructed per the City’s Construction Standards (see Article 7.3 Principles and Standards of Design) and comply with requirements of the Americans with Disabilities Act (ADA), as amended.
- b) Curb ramps for handicapped accessibility shall be provided at all intersections of Streets, Alleys, and drives (not including individual residential Driveways) and comply with ADA requirements. Curb ramps shall not be permitted in Driveways.
- c) When a sidewalk, pedestrian path, jogging path, and/or bicycle way crosses a Street intersection with an Arterial within or adjacent to a development, then safety devices (i.e. painted crosswalks, signs, or other traffic control devices) shall be installed at the Developer’s expense as deemed appropriate by the Public Works Department. The Director or Plan Commission may require crosswalks to be marked at other intersections or pedestrian-crossing points as may be deemed appropriate. All traffic control devices shall comply with guidelines and requirements of the current edition of the Indiana Manual on Uniform Traffic Control Devices.
- d) Internal Pedestrian Network Standards: The minimum sidewalk width shall be as indicated in the Thoroughfare Plan or five (5) feet (six (6) feet if immediately abutting the curb), whichever is greater.
- e) Sidewalks shall be required on both sides of internal Streets and internal Private Streets in all developments.

- f) When a proposed development lies between or adjacent to existing developments which have been provided with sidewalks, connecting sidewalks or pathways (which are extensions of the existing sidewalks) shall be constructed.
 - g) Connector sidewalks shall be provided from the sidewalk or path adjacent to the Street to the front entrance of all non-residential structures. Where the sidewalk intersects driving lanes or parking aisles within the Parking Area, then crosswalks and ramps shall be installed in accordance with ADA requirements and such areas shall be delineated (e.g., pavers, stamped, bricked), as determined by the Plan Commission or Director, to reinforce pedestrian safety.
 - h) Perimeter/External Pedestrian Network Standards: All developments shall participate in the establishment or improvement to the pedestrian network along Streets adjacent to its perimeter in accordance with the following: Where a proposed Development Plan or Subdivision abuts an existing Right-of-way, then pedestrian paths, jogging paths, and bicycle paths shall be provided along the perimeter Street(s) or Private Street(s) in accordance with the Thoroughfare Plan. The type of pedestrian facility required shall be as set forth in the Thoroughfare Plan.
 - i) Generally, all required pedestrian facility improvements shall be located within the Right-of-way. Required improvements located outside of the Right-of-way shall be located within an easement approved by the Director or Public Works Department.
 - j) The Plan Commission or Director may require Developers, at their expense, to construct off-site pedestrian facilities adjacent to the proposed development to respond to the proposed development's impact and infrastructure demands (see also Article 8.9 Street and Right-of-Way Standards as it may apply).
- 36) Storm Water Standards (Article 8.8) -
- 37) Streets and Right-of-Way Standards (Article 8.9) –
- 38) Street Light Standards (Article 8.10) –
- 39) Street Sign Standards (Article 8.11) –
- 40) Surety Standards (Article 8.12) –

DEPARTMENT COMMENTS

1. **The Detailed Development Plan complies with the applicable zoning ordinances.**
2. **Action: Staff recommends approving the petition with the following conditions:**
 - **All necessary approvals be obtained from the Westfield Public Works Department, the County Surveyor's Office, and the Westfield Fire Department prior to the approval of an Improvement Location Permit.**
3. If any Plan Commission member has questions prior to the meeting, then please contact Kevin Todd at 317.379.6467 or ktodd@westfield.in.gov.



WESTFIELD-WASHINGTON
ADVISORY PLAN COMMISSION

March 19, 2018
1802-DDP-03

Petition Number: 1802-DDP-03
Project Name: Westfield Middle School Expansion
Subject Site Address: 345 W. Hoover Street
Petitioner: Westfield Washington Schools
Representative: Cripe Engineering
Request: Petitioner requests Detailed Development Plan review of a 34,695 square foot +/- building addition on approximately 3 acres +/- in the SF:3 Single-Family Medium Density District.
Current Zoning: SF-3
Current Land Use: Institutional
Approximate Acreage: 3.0 acres +/-
Exhibits:

1. Staff Report
2. Location Map
3. Development Plan
4. Building Elevations
5. Landscape Plan
6. Lighting Plan

Staff Reviewer: Kevin M. Todd, AICP

PROCEDURAL

Approval of a Development Plan must be granted if the submitted plan demonstrates compliance with the terms of the underlying zoning district, subdivision control ordinance and/or applicable zoning district, any variances associated with the site, and any commitments associated with the site.

BACKGROUND

The Technical Advisory Committee reviewed the petition at their January 23, 2018, meeting.

DEVELOPMENT PLAN REVIEW (Article 10.7(E) of the UDO):



The plans comply.

- 1) Compliance with all applicable development and design standards of the Zoning District in which the real estate is located.
- 2) Compliance with all applicable provisions of any Overlay District in which the real estate is located.
- 3) Management of traffic will be in a manner that creates conditions favorable to health, safety, convenience, and the harmonious development of the community such that:
 - a) The design and location of proposed street and highway access points shall minimize safety hazards and congestion.
 - b) The capacity of adjacent streets and highways is sufficient to safely and efficiently accept traffic that will be generated by the new development.
 - c) The entrances, streets and internal traffic circulation facilities in the proposed development are compatible with existing and planned streets and adjacent development.
- 4) The applicable utilities have sufficient capacity to provide potable water, sanitary sewer facilities, electricity, telephone, natural gas, and cable service at a satisfactory level of service to meet the needs of the proposed development.

DEVELOPMENT PLAN DOCUMENTATION REQUIREMENTS (Article 10.7(H) of UDO)

The plans comply except for those items identified as outstanding below:

- 5) Development Plan Scope: A Detailed Development Plan shall include all details specific to the individual Lot that is the subject of the application.
- 6) Scale not more than 1"=100'
- 7) Title, scale, north arrow and date.
- 8) Proposed name of the development.
- 9) Area map insert showing the general location of the site referenced to Streets, section lines and alternative transportation plan system, as well as the Zoning District and use of adjacent property;
- 10) Address and legal description of the property.
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- 12) Alleys, access easements and alternative transportation plan system improvements that are existing or proposed to be located within or adjacent to the property.
- 13) Location, centerline and width (at the Lot Line) measurements of any proposed or existing Driveways within two hundred (200) feet of the property, and any connection to an Alley must be indicated.



- 14) Location and dimensions of primary vehicular ways in and around the proposed development, including depictions of all travel lanes, turning movements, vehicle storage areas and tapers.
 - 15) All proposed Street and Driveway improvements, both on and offsite, including measurement of curb radius and/or taper.
 - 16) Location and dimensions of existing and proposed sidewalks, pathways, trails or other alternate transportation plan improvements;
 - 17) Layout, number, dimension and area (in square feet and acres) of all Lots and Outlots with Building Setback Lines.
 - 18) Location and dimensions of all existing structures and paved areas.
 - 19) Location and dimensions of all proposed structures and paved areas (indicated by cross-hatching).
 - 20) Location of all Floodplain areas within the boundaries of the property.
 - 21) Names of legal ditches and streams on or adjacent to the site.
 - 22) Location and feasibility statement of all existing and proposed utility facilities and easements, including, but not limited to: sanitary sewer, water, storm water management, electric, gas, telephone and cable.
 - 23) Identify buildings proposed for demolition.
 - 24) Areas of the property reserved for Development Amenities, Open Space and other similar uses.
 - 25) Use of each Lot and/or building by labeling, including approximate density or size of proposed uses and buildings (e.g., number of parking spaces, Dwelling Units, Gross Floor Area, Living Area).
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WESTFIELD UNIFIED DEVELOPMENT ORDINANCE

The plans comply.

Zoning Districts (Chapter 4)

26) SF-3 District (Article 4.6)

- a) Minimum Lot Area: 12,000 SF
- b) Minimum Lot Frontage: 50'
- c) Minimum Building Setback Lines:
 - i) Front Yard: 20'
 - ii) Side Yard: 10'
 - iii) Rear Yard: 30'
- d) Minimum Lot Width: 80'

Overlay Districts (Chapter 5)

27) U.S. Highway 31 Overlay District (Article 5.2)

Comment: The U.S. Highway Overlay District standards do not apply to this project, per Article 5.2(L).

28) Floodplain Overlay District (Article 5.5)

Comment: This project does not fall within a Floodplain.

29) Wellhead Protection District Overlay (Article 5.7)

Development Standards (Chapter 6)

30) Accessory Use and Building Standards (Article 6.1)

31) Architectural Standards (Article 6.3)

- a) No loading spaces or loading docks shall be permitted to face a Street.
- b) Loading spaces or loading docks facing or oriented to a Side or Rear Lot Line of an adjoining Residential District shall be screened from view from such Residential District by the use of: (i) evergreen trees; or, (ii) a combination of overstory, understory or evergreen trees and a solid wall or fence, which creates a dense visual barrier to a minimum height of six (6) feet.
- c) Building Materials: In order to ensure compatibility of non-residential uses with surrounding residential uses in Residential Districts, all nonresidential uses shall use exterior building

materials, roof line treatments and roofing materials that are compatible with and consistent with the residential character and building materials of the surrounding residential area.

32) Building Standards (Article 6.4)

33) Height Standards (Article 6.6)

34) Landscaping Standards (Article 6.8)

a) Placement: Installed plantings shall comply with the following:

- i. Clearance with Structures: Trees shall be planted so that when they reach maturity, there will be a minimum of five (5) feet of clearance between tree trunks and structures, building overhangs, walls, fences, and other trees.
- ii. Vision Clearance: Plantings and mounds shall also comply with Article 6.19 Vision Clearance Standards.
- iii. Right-of-way: With the exception of Street Trees, as required herein, or trees as may otherwise be approved by the Plan Commission or Public Works Department, landscape material shall not be planted or placed in Rights-of-way or easements without permission from the City or the easement holder.
- iv. Minimum Distance from Sidewalk and Curb: Trees shall be planted a minimum distance of four (4) feet from the edge of a Street curb or pedestrian pathway or sidewalk.
- v. Minimum Distance from Stormwater Structures: Trees shall be planted a minimum distance of ten (10) feet from any storm sewer or subsurface drain, unless otherwise permitted in accordance with the City's Construction Standards or approved in writing by the Public Works Department.
- vi. Easements: Required landscaping should be located in landscape easements or designated common areas that are exclusive of utility or drainage easements that would otherwise prohibit the required landscaping.
- vii. Arrangement: A natural or irregular row and spacing of plantings is preferred. Trees and shrubs should be grouped or clustered where possible to simulate natural tree stands.

b) Detention and Retention Areas:

- i. Natural Appearance:
 - (1) Detention and Retention Areas shall be landscaped in a manner that replicates the natural form of ponds and shall include shade trees, ornamental trees, evergreens, shrubs, hedges, and/or other plantings (see also Minimum Lot Landscaping Requirements and Article 8.6 Open Space and Amenity Standards).
 - (2) Wetlands/aquatic vegetation planted around the wet perimeter of such areas should be utilized to further this design objective; however, if such plantings are utilized for water quality control, then landscape plans shall be prepared and stamped by a licensed landscape architect.

(3) Detention and Retention Areas shall be designed to be natural in appearance, with meandering edges.

- ii. Location: Detention and Retention Areas should be located to enhance view sheds and incorporated as amenities to the development (see also Article 8.6 Open Space and Amenity Standards).
- iii. Side Slopes: Side slopes above the water line for Retention Areas and water features shall not exceed 4:1. Side slopes above the water line for Detention Areas shall not exceed 4:1 and shall be graded to harmonize with the overall Open Space design of the site.

c) Minimum Lot Landscaping Requirements

| Inst. Use/3.0 acres | Required | Provided | Difference |
|-------------------------------|----------|----------------|------------|
| Shade Trees | 6 | 5 + 3 existing | +2 |
| Ornamental or Evergreen Trees | 9 | 1 + 8 existing | 0 |
| Shrubs | 30 | 55 | +25 |

d) Foundation Plantings

| Front Façade | Plantings | Required | Provided | Difference |
|------------------|----------------------------|----------|----------|------------|
| NW side (Area A) | Shrubs or Ornamental Trees | 23 | 23 | 0 |
| NE side (Area B) | Shrubs or Ornamental Trees | 7 | 7 | 0 |
| NE side (Area C) | Shrubs or Ornamental Trees | 7 | 7 | 0 |

e) External Street Frontage Landscaping Requirements:

| U.S. 31 (90' of new impact) | Required | Provided | Difference |
|-----------------------------|----------|------------|------------|
| Shade or Evergreen Trees | 3 | 3 existing | 0 |
| Ornamental Trees | 2 | 8 existing | +6 |
| Shrubs | 23 | 23 | 0 |

- f) Easements: Trees required to be planted along External Streets should be located outside drainage and utility easements that would otherwise prohibit the required landscaping and shall be located in a manner that mitigates interference with infrastructure located within such easements. Trees may be clustered or grouped in order to attain creative site design and/or to accommodate utility infrastructure.

g) Interior Parking Area Landscaping

| 4,200 SF Parking Area | Required | Provided | Difference |
|-----------------------|--------------------------|--------------------------|------------|
| Island Area | 420 SF | 1,050 SF | +630 SF |
| Trees + Shrubs | 1 tree + 4 shrubs/island | 1 tree + 4 shrubs/island | Compliant |

21) Lighting Standards (Article 6.9)

- a) All Light Fixtures, with the exception of internally-illuminated signs or Electronic Signage, shall be Fully Shielded and direct light downward toward the earth's surface.
- b) All lighting sources shall be directed away from reflective surfaces to minimize glare upon adjacent Lots and Rights-of-way.
- c) All lighting sources, with the exception of internally-illuminated signage or Electronic Signage, shall be positioned in such a manner as to direct light away from adjacent Lots and Rights-of-way.
- d) Light pole height shall not exceed twenty-five (25) feet. All Light Fixtures in Parking Areas shall be designed and located to confine emitted light to the Parking Area.
- e) All Light Fixtures shall meet City Building Code requirements for their appropriate construction class.

22) Lot Standards (Article 6.10)

- a) All Lots shall abut on a Street or Private Street and shall have a minimum Lot Frontage as set forth by the Zoning District or Overlay District.
- b) Residential Corner Lots shall be of sufficient width to permit appropriate Building Setback Lines and driveway setbacks from both Streets.

23) Outdoor Storage and Display (Article 6.21)

24) Outdoor Café and Eating Areas (Article 6.13)

25) Parking Standards (Article 6.14)

26) Performance Standards (Article 6.15)

27) Setback Standards (Article 6.16)

28) Sign Standards (Article 6.17)

Comment: The Sign Standards will be reviewed during any future subsequent Sign Permit Application reviews. Any signs and/or sign locations depicted on a Detailed Development Plan shall not be deemed "Approved" by approval of the Detailed Development Plan.

29) Vision Clearance Standards (Article 6.19)

- a) No Sign, fence, wall, landscaping, Public Utility Installation or other Improvement which obstructs sight lines between three (3) and nine (9) feet above a Street shall be permitted on a Corner Lot,



unless otherwise approved in writing by the Public Works Department, within the triangular area formed by the Right-of-way line and a line connecting points: Forty (40) feet from intersections of Collectors, Private or Local Street; Seventy-five (75) feet from intersections of Expressways or Arterials; Ten (10) feet from intersections of Driveways or Alleys.

30) Yard Standards (Article 6.21)

Design Standards (Chapter 8)

31) Block Standards (Article 8.1)

32) Easement Standards (Article 8.3)

33) Monument and Marker Standards (Article 8.5)

34) Open Space and Amenity Standards (Article 8.6)

35) Pedestrian Network Standards (Article 8.7)

- a) All concrete sidewalk, asphalt path, and crosswalk improvements shall be constructed per the City's Construction Standards (see Article 7.3 Principles and Standards of Design) and comply with requirements of the Americans with Disabilities Act (ADA), as amended.
- b) Curb ramps for handicapped accessibility shall be provided at all intersections of Streets, Alleys, and drives (not including individual residential Driveways) and comply with ADA requirements. Curb ramps shall not be permitted in Driveways.
- c) When a sidewalk, pedestrian path, jogging path, and/or bicycle way crosses a Street intersection with an Arterial within or adjacent to a development, then safety devices (i.e. painted crosswalks, signs, or other traffic control devices) shall be installed at the Developer's expense as deemed appropriate by the Public Works Department. The Director or Plan Commission may require crosswalks to be marked at other intersections or pedestrian-crossing points as may be deemed appropriate. All traffic control devices shall comply with guidelines and requirements of the current edition of the Indiana Manual on Uniform Traffic Control Devices.
- d) Internal Pedestrian Network Standards: The minimum sidewalk width shall be as indicated in the Thoroughfare Plan or five (5) feet (six (6) feet if immediately abutting the curb), whichever is greater.
- e) Sidewalks shall be required on both sides of internal Streets and internal Private Streets in all developments.
- f) When a proposed development lies between or adjacent to existing developments which have been provided with sidewalks, connecting sidewalks or pathways (which are extensions of the existing sidewalks) shall be constructed.
- g) Connector sidewalks shall be provided from the sidewalk or path adjacent to the Street to the front entrance of all non-residential structures. Where the sidewalk intersects driving lanes or parking aisles within the Parking Area, then crosswalks and ramps shall be installed in accordance with ADA requirements and such areas shall be delineated (e.g., pavers, stamped, bricked), as determined by the Plan Commission or Director, to reinforce pedestrian safety.

- h) Perimeter/External Pedestrian Network Standards: All developments shall participate in the establishment or improvement to the pedestrian network along Streets adjacent to its perimeter in accordance with the following: Where a proposed Development Plan or Subdivision abuts an existing Right-of-way, then pedestrian paths, jogging paths, and bicycle paths shall be provided along the perimeter Street(s) or Private Street(s) in accordance with the Thoroughfare Plan. The type of pedestrian facility required shall be as set forth in the Thoroughfare Plan.
 - i) Generally, all required pedestrian facility improvements shall be located within the Right-of-way. Required improvements located outside of the Right-of-way shall be located within an easement approved by the Director or Public Works Department.
 - j) The Plan Commission or Director may require Developers, at their expense, to construct off-site pedestrian facilities adjacent to the proposed development to respond to the proposed development's impact and infrastructure demands (see also Article 8.9 Street and Right-of-Way Standards as it may apply).
- 36) Storm Water Standards (Article 8.8) -
- 37) Streets and Right-of-Way Standards (Article 8.9) –
- 38) Street Light Standards (Article 8.10) –
- 39) Street Sign Standards (Article 8.11) –
- 40) Surety Standards (Article 8.12) –
- 41) Surety Standards (Article 8.12) –

DEPARTMENT COMMENTS

1. **The Detailed Development Plan complies with the applicable zoning ordinances.**
2. **Action: Staff recommends approving the petition with the following conditions:**
 - **All necessary approvals be obtained from the Westfield Public Works Department, the County Surveyor's Office, and the Westfield Fire Department prior to the approval of an Improvement Location Permit.**
3. If any Plan Commission member has questions prior to the meeting, then please contact Kevin Todd at 317.379.6467 or ktodd@westfield.in.gov.

Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 1 of 9

Westfield-Washington Advisory Plan Commission (APC) held a meeting on Monday, March 5, 2018, scheduled for 7:00 p.m. at the Westfield City Hall.

Opening of Meeting: 7:00 p.m.

Roll Call: Noted presence of a quorum.

Members Present: Randy Graham, Steve Hoover, Robert Horkay, Andre Maue, Dave Schmitz, Robert Smith, and Chris Woodard

Members Absent: Ginny Kelleher and Scott Willis

City Staff Present: Matt Skelton, Director; Pam Howard, Senior Planner; Caleb Ernest, Associate Planner; Daine Crabtree, Associate Planner; and Brian Zaiger, City Attorney.

APPROVAL OF MINUTES:

Motion: Approve February 20, 2018 Meeting Minutes as presented.

Motion: Horkay; Second: Maue. Motion passed. Vote: 7-0.

REVIEW OF RULES AND PROCEDURES

Howard reviewed the meeting rules and procedures.

ITEMS OF BUSINESS**1802-PUD-04****Oak Ridge Pointe PUD District Amendment**

Southwest Corner of SR 32 and Oak Ridge Road

Weihe Engineers requests an amendment to the Oak Ridge Pointe PUD District to allow for commercial development.

Howard summarized this request for an amendment to the Oak Ridge Pointe PUD District.

Hoover asked if this amendment applied only to the specific lot where the bank will be located.

Howard answered yes.

Motion: Forward 1802-PUD-04 to the City Council with a positive recommendation.

Motion: Schmitz; Second: Woodard. Motion passed. Vote: 7-0.

Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 2 of 9

1802-PUD-05 Compton PUD District
15626 Springmill Road
Dr. Adam Compton by Page Law and Weihe Engineers requests a change in zoning of 0.88 acres +/- from the AG-SF1 District to the Compton PUD District to allow for the construction of an office building.

Ernest presented an overview of this request for a change in zoning.

Paul Page with Page Law, representing the petitioner, presented an over view of modifications made to the proposed PUD. Modifications included that the signage would comply with the Unified Development Ordinance (UDO); permitted uses would be restricted to General Services Offices, Professional Offices, and Medical Offices; trash pick-up would be limited and no trash pick-up would take place between 11:00 p.m. and 5:00 a.m.; Also addressed were landscaping, corrected façade elevations, and the intent to retain the residential character of the building.

Smith asked if the is signage is what we had been shown; he did not see examples depicted.

Page answered that they have worked with staff and that sign standards would comply with the UDO.

Maue asked if the tall center section of the east elevation would project outward.

Jim Burris, the architect, answered yes, it would.

Schmitz questioned Ernest about public comment that was to be provided.

Caleb responded that he actually was referring to the issue list to which the petitioner responded.

Schmitz asked if the neighborhood discussion had been positive.

Page said yes, discussion had been positive.

Woodard asked if project had been reviewed by Spring Mill Station Task Group (SMSTG).

Page responded the SMSTG requested the petitioner to speak with the Crosswind Commons neighbors.

Hoover elaborated that the SMSTG looked at a proposal a year ago that was never filed and expressed that if the neighbors had no negative concerns that the SMSTG would be fine with the plan.

Schmitz commented that he was not sure about the increase in building size in relation to being so close to areas that are designated commercial; however, at the same time, sees a business that has

Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 3 of 9

invested in the community and wants to further its commitment and he sees no neighbor concerns. He asked if anyone else agreed with his concerns over the scale of this building.

Horkay responded that he agreed with Schmitz's concerns with the scale of the proposed building and stated that he was never in favor of expanding the uses or the original BZA approval.

Woodard asked how long dental office had been located at this location.

Page answered that the office had been in this location for 18 - 20 years.

Hoover stated that if there was neighbor objections he would likely not support this project; however, he has heard no objections from the neighbors and sees this project to be an improvement. He also supports the uses and hours proposed.

Smith stated that it is existing as a business and can remain so. He also said that someone could possibly build a home of the same size with the same elevation in this location.

Maue stated he like the limited uses, hours, and the look of the building. He said he wouldn't see someone wanting to build a house in this location due to traffic.

Motion: Forward 1802-PUD-05 to the City Council with a positive recommendation.

Motion: Woodard; Second: Smith. Motion passed. Vote: 5-2.

PUBLIC HEARING ITEMS**1803-ODP-03 &****Springmill Trails****1803-SPP-03***Northwest Corner of SR 32 and Ditch Road*

[PUBLIC HEARING]

Weihe Engineers requests Primary Plat and Overall Development Plan review of 20 Blocks on 155 acres +/- in the Springmill Trails PUD District.

Howard presented an overview of this request Primary Plat and Overall Development Plan review.

Public Hearing for 1803-ODP-03 & 1803-SPP-03 opened at 7:20 p.m.

Maureen Misinski, 18097 Viewpoint Lane; stated she didn't see if Viewpoint Lane was going to be opened and if that would be the case, she is in opposition. She said she also heard that pool was going to be in Block P and she objected to that idea due to the proximity to her home and size of parcel. She stated that there are drainage issues in the common area. She asked what type of buffering would be between residential and commercial areas.

Neil Helwig, 1225 Crosswater Way; stated he isn't in favor of terminating the roads, which he feels will stifle connectivity within the community. He asked what kind of mixed used properties would be used in the proposed development. He addressed that he felt Casey Acres is not a good

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Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 4 of 9

example as it doesn't hold up to the spirit of the ordinance, pointing out its elevations do not match what was included in the ordinance. He also addressed that crime issues had increased since Casey Acres was built. He asked about the amenities center and location of the pool and wants more info on these items.

Joe Dickman, 1299 Hazy Falls Boulevard; stated he has concerns with an additional entrance to the neighborhood which would result in increased traffic and resulting safety issues. He also said he would like more about buffers and land use.

Lauren Kline, 1251 Hazy Falls Boulevard; said she chose this area because of country views. She also voiced concern over increased traffic that would compromise the safety of the neighborhood children. She said that Casey Acres had created trouble for the area. She would also like to know what type of development would be going in the proposed area and what buffers would be provided to assist homeowner in maintaining their property values.

Ron Ellis, 1291 Hazy Falls Boulevard; said he would like to know what the intended uses would be of the proposed development. He stated he is also concerned about the type of buffering that would be installed and had additional concerns about property values and general safety of the existing neighborhood.

Dee Kirkland, 18130 Sunbrook Way; said she moved here to get away from busy Avon and doesn't want to live behind a busy commercial development. She is opposed to the commercial development.

David Russel, 1331 Hazy Falls Boulevard; stated this proposed development backs up to his property, and he would like to know what is going to be built. He also wants to know what the development would look like, and if it would provide for the provision of current outdoor space and safety the residents now enjoy.

Mary Somerville, 1266 Hazy Falls Boulevard; stated she echoes the traffic and safety concerns of the previous speakers. She said she is opposed to any additional apartments.

Public Hearing for 1803-ODP-03 & 1803-SPP-03 closed at 7:31 p.m.

Petitioner Brad Schoeff, Weihe Engineers stated he was speaking on behalf of the developer who was unable to attend the public hearing due to illness. He stated that he would address tonight's questions and comments to the best of his ability.

He said Block P is planned to be the neighborhood amenities center and its uses are under discussion. He is unable to comment in regard to its timing or design.

This area was zoned previously and seen as the gateway to a mixed use commercial PUD corridor designed to attract future development.

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Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 5 of 9

The developer has had been with staff about extending Viewpoint Lane to Ditch Road accommodate fire safety and traffic circulation.

He addressed that buffering will comply with UDO; and, as there no plans now for Block Q, items such as buffering, landscaping, and design would be reviewed at that time of future proposals.

He commented that there would be three 4-way stop intersections within the development.

He said he understands the concerns about safety, buffering, and property values. He will convey these concerns to the developer and the development team. He added the plan is to work with the PUD that is in place to determine permitted uses.

He agreed that drainage is always a concern that needs attention and that anticipated areas for detention/drainage are proposed and based on topography. Detention issues will be worked out as lots develop.

Schmitz asked about the Viewpoint Lane extension to Ditch Road and why it wasn't shown.

Schoeff explained that they would replat when that plan is coming through and that public works is requiring the connection for safety reasons.

Skelton further stated that the UDO likely requires this connection as well.

Smith asked why we aren't seeing more detail in this plan.

Skelton commented that we are not seeing detail as this is the platting phase, not zoning or Detailed Development Plan phase.

Woodard asked how this proposed plan compares to vision in original PUD.

Howard said that some has changes have taken place as a result of the road network changes.

Skelton added that the Northeast Transportation Network was modified to adapt to the City's changed Thoroughfare Plan, the City's Ditch Road extension project, as well as the SR 32 Overlay are also to be considered.

Hoover explained that the same PUD zoning that allowed Waters Edge allowed this proposed development. He added that the Plan Commission is complying with the zoning, and that the petitioner is not asking for anything that is not permitted within the PUD.

Smith doesn't understand why there is a hearing required for this.

Skelton responded holding a public hearing is required by state statute for plats.

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Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 6 of 9

1803-ODP-04 &**1803-SPP-04**

[PUBLIC HEARING]

Springmill Villas (formerly known as Maple Knoll East)*East of Spring Mill Road and South of State Road 32*

Maple Knoll Developer, LLC by Nelson & Frankenberger, LLC requests Primary Plat and Overall Development Plan review of 88 units on 38.09 acres +/- in the Maple Knoll PUD District.

Ernest summarized this request for Primary Plant and Overall Development Plan review.

Jon Dobosiewicz, with Nelson and Frankenberger, representing the developer presented an overview of the proposed development within the Maple Knoll PUD.

Public Hearing for 1803-ODP-04 & 1803-SPP-04 opened at 7:56 p.m.

Robert Neal, 194 Maple View Drive; stated that he lives adjacent to site has concern about the proposed use as the letter he received did not define the use. He also said he is concerned about the type and value of the proposed homes. He added that he doesn't want to see the significant loss of wooded area which is home to a great deal of local wildlife. He said he wasn't aware of this PUD and this plan for development. Additionally, he is concerned about drainage as the field drains through his back yard and goes to detention in his neighborhood. He is also worried about lack of definition about what would be going into the proposed outlots. He understands commercial may be permitted, but doesn't want intense commercial, especially gas stations. He said he wants input as to buffering and asked if the duplexes connected by walls, are patios on rear or side. He submitted written comments.

Chris Renner, 260 Maple View Drive: asked if the dwellings and townhouses are in sets of two with a common wall and if there are any single family units planned. He said the plan had two drainage ponds and asked if there would be any offsite drainage tiles and if so, where will drainage go. He asked how about the distance between the south units and property line. He asked a series of questions that included ones about mounding between development to south and this development, trees, buffering, elevations of lane, lighting and other building covenants, and soil remediation. He submitted written questions.

Daniel Westlake, 203 Maple View Drive, President of Maples at Springmill HOA; expressed concerned about property values of his community. He stated that about 85% of the Maples at Springmill community are elderly, retired, or have moved there to downsize. He said they work hard to increase their property values and would prefer no commercial development in outlots. This HOA is concerned about rental properties, buffering between communities, that they would like a berm, and they wish to have the existing trees maintained.

Katherine Sharp-Evans, 106 Spring Lake Drive; said she lives on edge of countryside near border of Maples and is concerned about schools overcrowding. She is also concerned about traffic and asked if a traffic study been done since 2004. She stated it is very difficult to turn out onto Springmill and asked if Springmill would be widened.

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Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 7 of 9

Kendra Eversole, 110 Spring Lake Drive; said her property backs up to this proposed development. She stated she understands this PUD was approved in 2004, adding quite a lot of development has taken place since that time. She said she agreed with other stated concerns, especially schools, traffic, and wildlife habitat. She said bats circle her property and wondered if they are a protected species. She asked if an environmental study had been done. She asked if the woodland area could be preserved, and the trees to be preserved could be shown on the lined plat, and, in an effort to preserve the tree stand, could the drainage easement be moved further north.

Pat Rodkey, 17154 Huntley Place; said her living room overlooks the discussed tree line and that she is concerned that the trees will not be preserved. She also stated concerns about traffic and property values. She is also concerned about access to her subdivision and said the road in her subdivision goes to up to the tree line and is not carried through.

David Dragou, 316 Maple View Drive; stated he moved from Noblesville as the Maples at Springmill was the type of development he was looking for. He stated concern about his home backing up to a commercial development with dumpsters and delivery trucks. He asked about buffers, mounding, and landscaping.

Public Hearing for 1803-ODP-04 & 1803-SPP-04 closed at 8:15 p.m.

Dobosiewicz's responses

- Reiterated that this PUD was zoned in 2004 with Apartments, Maple Villas, and other communities. This final part is the zoned mixed use.
- Buffer not required between neighborhoods, but the petitioner is electing to maintain existing trees even though this is not required by the ordinance.
- Under current zoning this could be all commercial, with the exception of gas station or big box, but office style development is expected for outlots.
- Explained drainage requirements, including a new pipe heading southeast that will be outside wooded area.
- Setback from closest lot to south property line is 30-45 feet to lot line plus an additional setback to rear of building.
- The alley that goes to property line is not proposed to be connected to the neighborhood to the south.
- The petitioner is aware of state's requirements for environmental studies of large wetland areas; however, this area does not fall into the perimeter of a required study area.
- As for patios, please see existing duplexes at Maple Villas as they are virtually identical to these
- Petitioner will comply with residential lighting standards in the area.

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Minutes of the March 5, 2018 APC Meeting*Presented for approval: March 19, 2018*

Page 8 of 9

- The schools, who are a part of the technical review committee, have been aware of this being planned for residential for 14 years.
- Mounding and tree preservation on south line is in excess of what is required. Dead trees will be removed for safety reasons.

1803-PUD-07

[PUBLIC HEARING]

Hall and House PUD District Amendment*Wheeler Road, approximately 450 feet south of State Road 32*

Clancy's Inc. By American Structurepoint, Inc. requests an amendment to the Hall and House PUD District to allow for the construction of a 6,000 square-foot restaurant.

Crabtree presented an overview of this request for amendments to the Hall and House PUD District.

Public Hearing for 1803-PUD-07 opened at 8:26 p.m.

No public comment.

Public Hearing for 1803-PUD-07 closed at 8:27 p.m.

Motion: Forward 1803-PUD-07 to the City Council with a positive recommendation.

Motion: Maue; Second: Woodard. Motion passed. Vote: 7-0.

CONSENT AGENDA ITEMS**1802-DDP-05****Grindstone Charley's***17470 Wheeler Road*

Clancy's Inc. by American Structurepoint, Inc. requests a Detailed Development Plan review for a new 6,000 square foot restaurant and site improvements on 1.76 acres +/- in the Hall and House PUD District.

1802-DDP-06**Community First Bank***Southwest Corner of SR 32 and Oak Ridge Road*

Weihe Engineers requests Detailed Development Plan review of a 5,696 square foot +/- bank on 1.46 acres +/- in the Oak Ridge Point PUD District.

Motion: Approve Consent Agenda Items.

Motion: Schmitz; Second: Woodard. Motion passed. Vote: 7-0.

CONTINUED ITEMS

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Minutes of the March 5, 2018 APC Meeting

Presented for approval: March 19, 2018

Page 9 of 9

1801-PUD-01

Davis PUD

West side of Ditch Road between 156th Street and 161st Street

Estridge Homes by 11th Street Development requests a change of zoning of 80 acres +/- from the AG-SF1: Agriculture / Single-Family Rural District to the Davis PUD District.

REPORTS/COMMENTS

Plan Commission Members.

City Council Liaison.

Board of Zoning Appeals Liaison.

Economic and Community Development Department.

Motion: Adjourn meeting.

Motion: Hoover; second, Woodard. Motion passed. Vote: 7-0.

The meeting adjourned at 8:31 p.m.

Randell Graham, President

Andre Maue, Vice President

Matthew S. Skelton, Esq., Secretary