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AGRELIANT GENETICS, LLC

Corporate Overview & Expansion Project | April, 2015

Westfield Plan Commission Presentation

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AgReliant GENETICS

3rd Largest Corn Seed Company in the U.S.

17% Annual Corn Sales Growth

Owned by 4th & 6th Largest Seed Companies in the World

Corporate Headquarters in Westfield, Indiana

AgriGold

Eureka SEEDS

GREAT LAKES HYBRIDS

LG SEEDS

PRODUCERS Hybrids

PRIDE SEEDS

WENSMAN
Seed Technology for Your Success

© 2015 AgReliant Genetics, LLC

Top Five Corn Research Program in the U.S.

Significant Investment in State-of-the-Art Facilities and Research

Over 900 Employees in North America

Over 140 Employees in Indiana and 54 in Westfield

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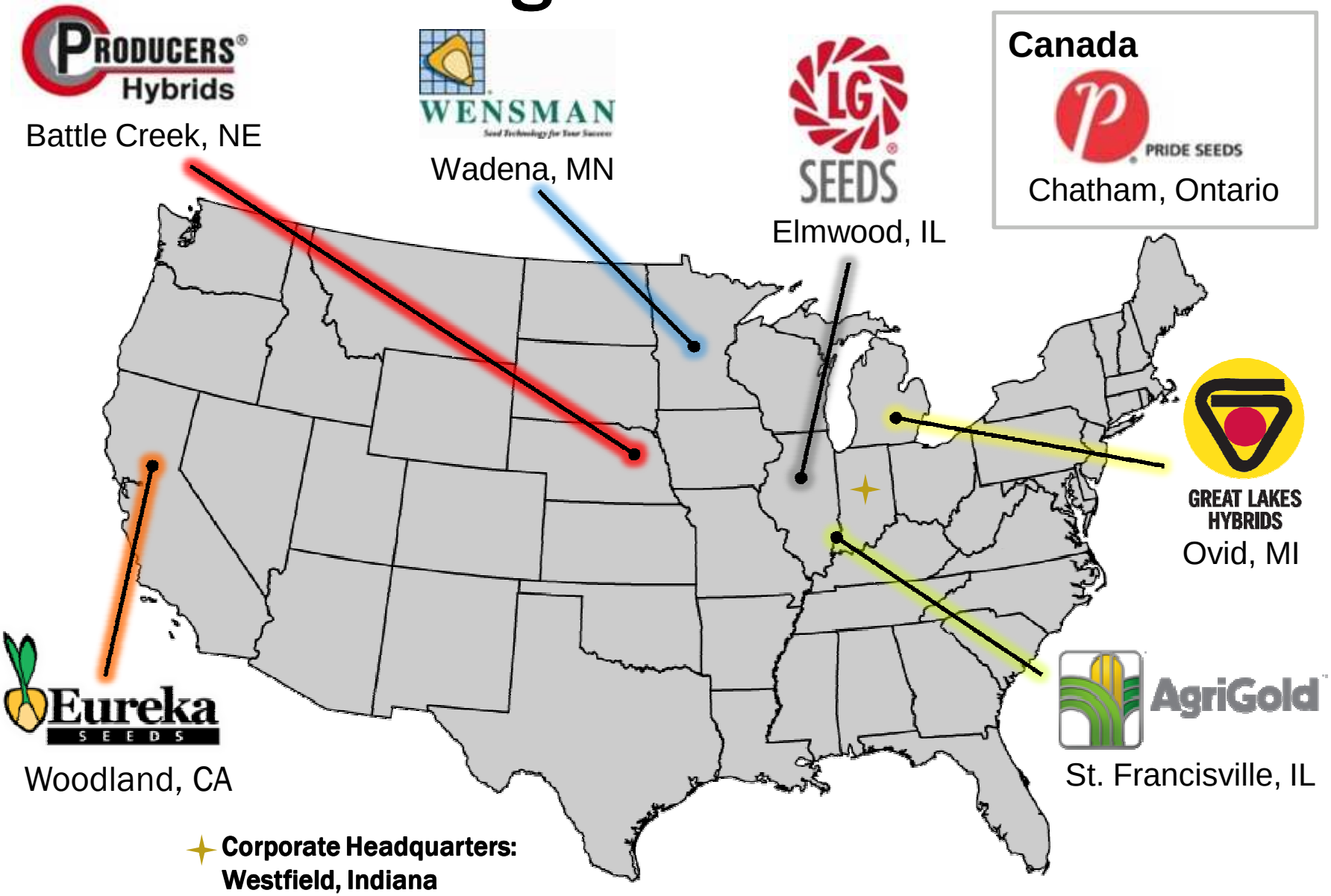
Strong Market Presence



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Proposed Headquarters Expansion

- Estimated $6 Million investment and at least 31 additional jobs over 10 years

1122 East 169th Street – Westfield, Indiana

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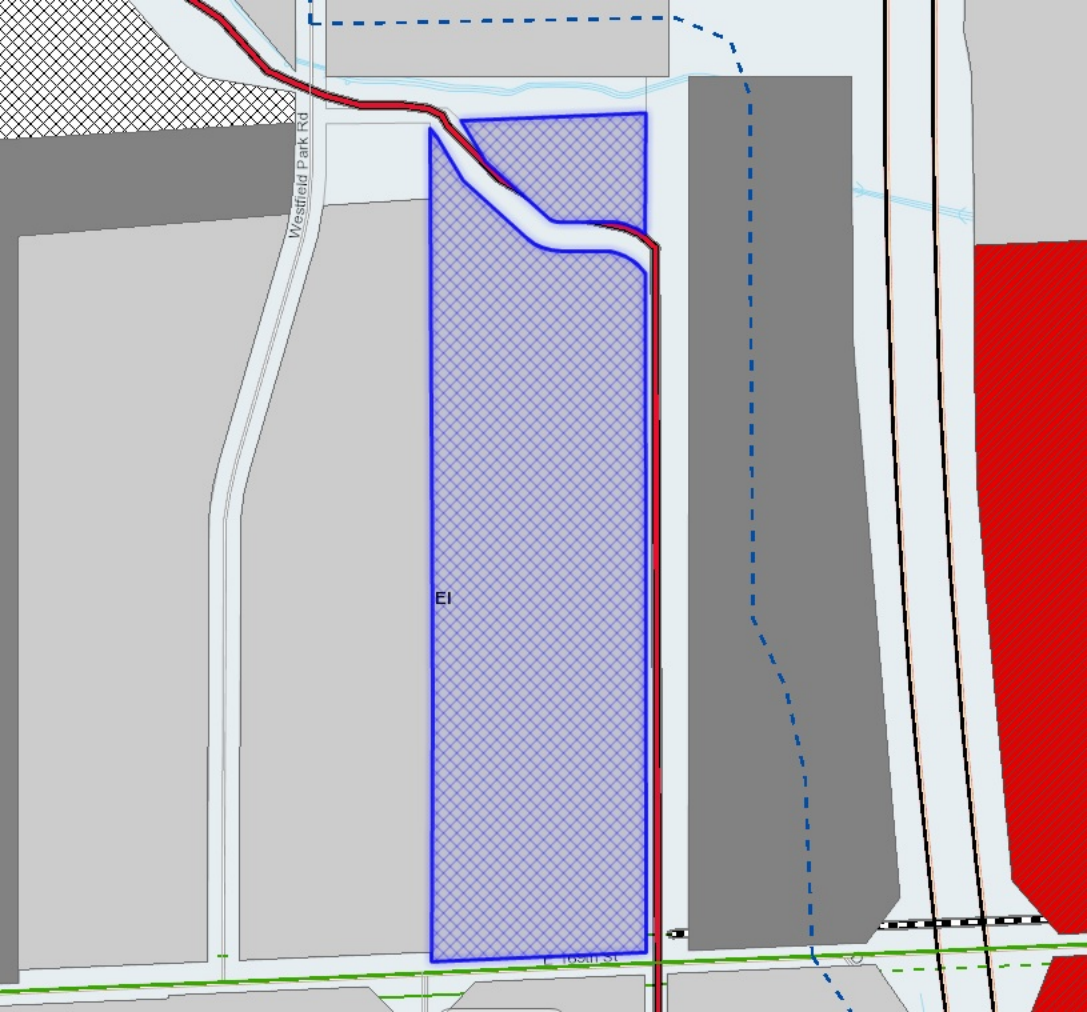
THANK YOU!

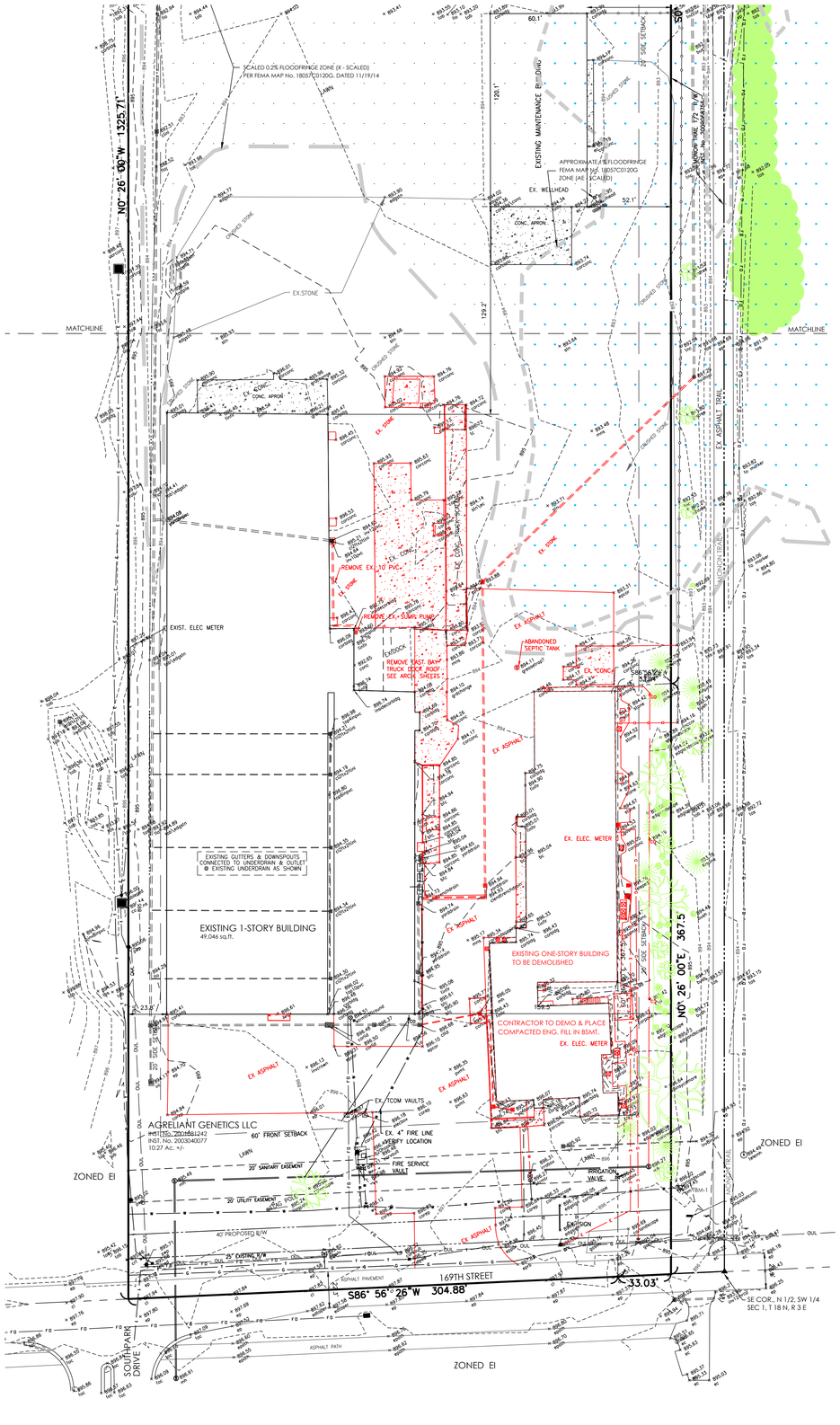
We appreciate your support and look forward to continued success in the Westfield community!

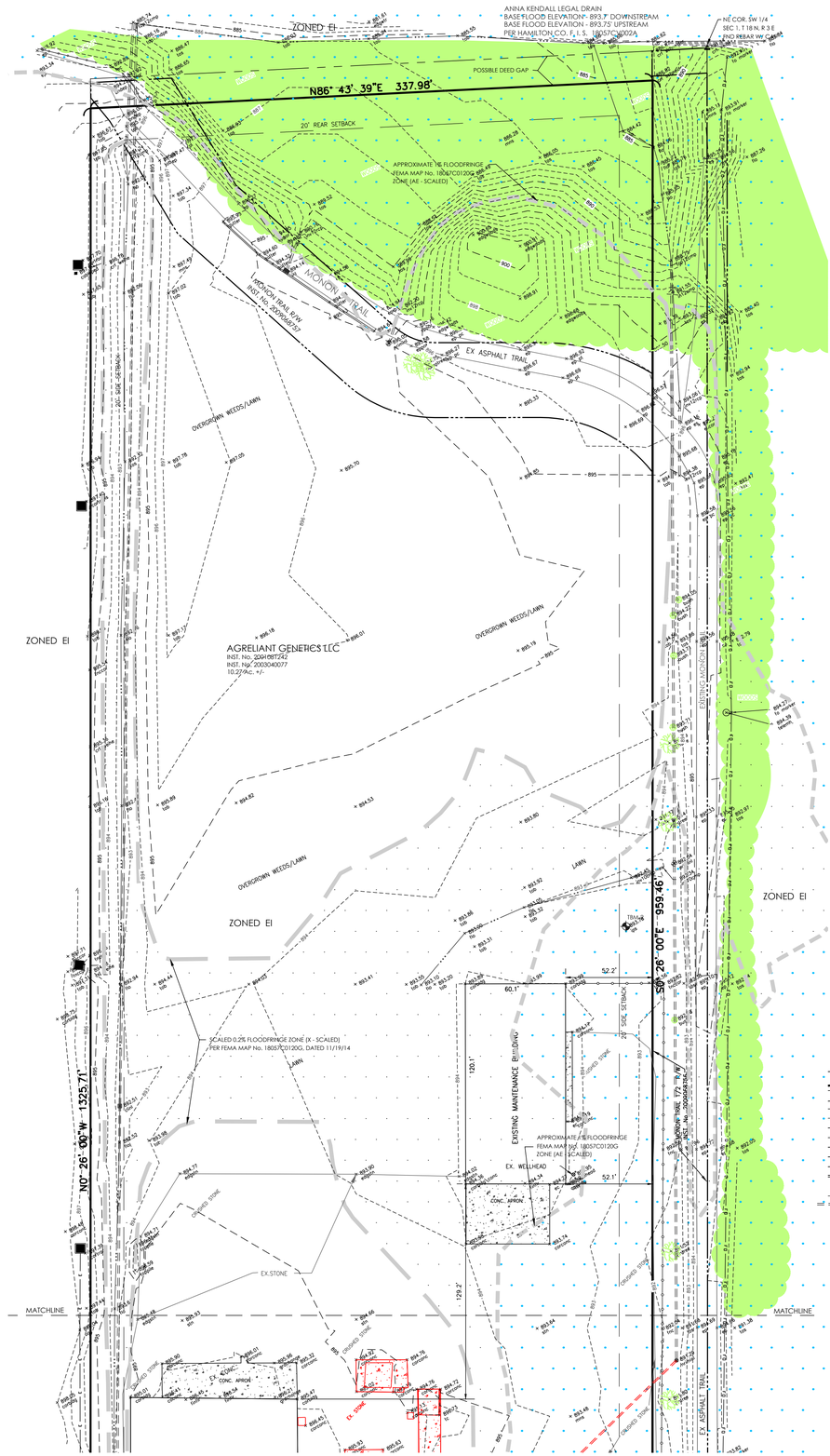
AgReliant®
GENETICS
CORPORATE HEADQUARTERS

1122


Westfield Park Rd
EI

Westfield Park Rd
Dean Rd





NOTES:

1. SITE INFORMATION

SITE SIZE 10.27 Ac.+/-

2. TBM-1

CUT "X" ON THE EAST FLANGE BOLT OF FIRE HYDRANT, +/- 15' EAST OF EAST EDGE OF PAVEMENT OF WESTFIELD PARK ROAD, +/- 140' WEST OF THE NORTHWEST OF 17341 WESTFIELD PARK ROAD

COND. - GOOD
ELEV. = 903.28'
NAVD 1988

TBM-2

5/8" REBAR SET 1" +/- ABOVE GRADE (KWA CONTROL POINT 5000) LOCATED 34.3' NORTH AND 36.3' EAST OF THE NORTHEAST CORNER OF THE AGRELIANT MAINTENANCE GARAGE

COND. - GOOD
ELEV. = 893.78'
NAVD 1988

EXISTING LEGEND

- EXISTING GAS LINE
- PROPERTY LINE
- ADJOINER/SECTION LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- SETBACK LINE
- EASEMENT
- EXISTING OVERHEAD UTILITY LINES
- EXISTING UNDERGROUND PHONE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER LINE
- SANITARY SEWER LINE
- STORM SEWER
- FLOW LINE
- SIGNS
- MAILBOX
- STORM INLETS
- STORM MANHOLE
- SOIL BORING
- UTILITY POLE
- WATER VALVE
- PHONE MANHOLE
- UTILITY PEDESTAL

HOLEY MOLEY SAYS

"DIG SAFELY"

"IT'S THE LAW"
CALL BEFORE YOU DIG
811
KNOW WHAT'S BELOW
PER INDIANA STATE LAW IC8-1-26, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.
CALL 1-800-382-5544 to schedule a locate request

EXISTING TOPOGRAPHY PLAN

GRAPHIC SCALE

0 40 60 80 120 200

(IN FEET)
1 inch = 40 ft.

NORTH

DATE	ISSUE
2/09/2014	PRE-FILING CONFERENCE
2/26/2014	WESTFIELD - DP SUBMITTAL

KEELER-WEBB ASSOCIATES
Consulting Engineers–Planners–Surveyors
486 GRADLE DRIVE
CARMEL, INDIANA 46032
PHONE (317) 574-0140
FAX (317) 574-1269 adehart@keelerwebb.com

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f. 317.573.2230

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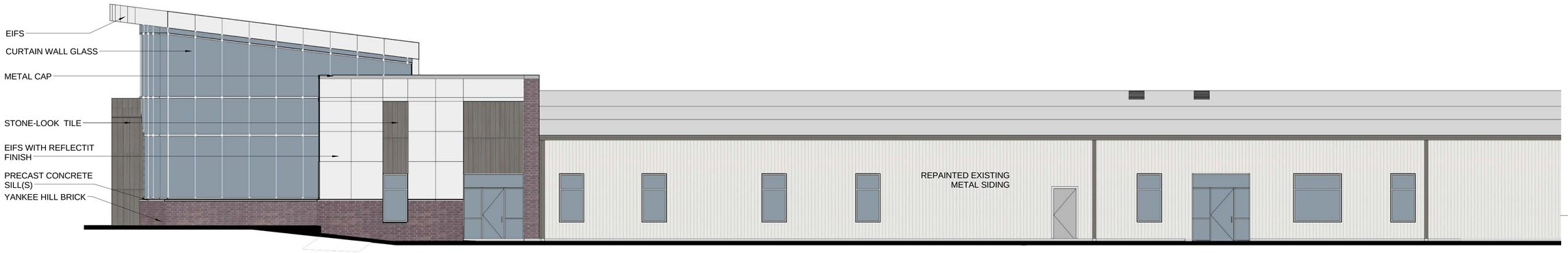
1122 East 169th Street
Westfield, Indiana 46074
317.896.5552

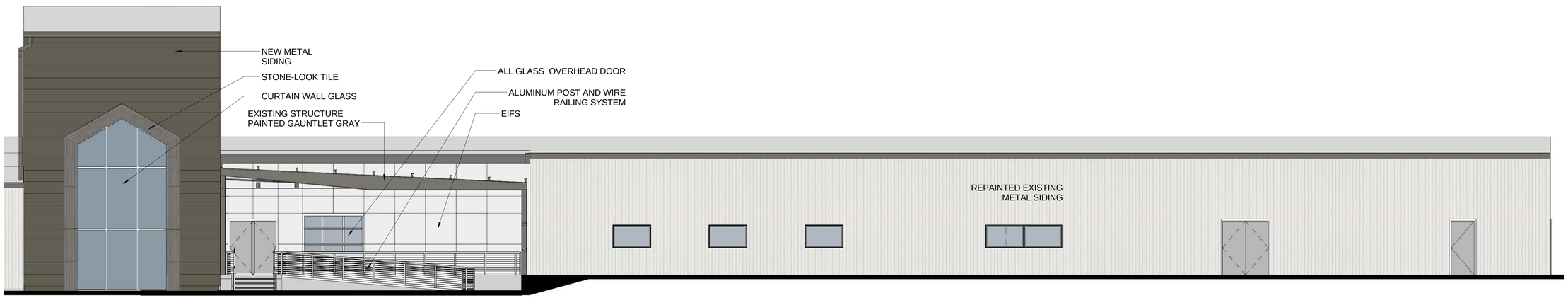
DRAWN BY: CPW
CHECKED BY: ALD

PROJECT No.
1410-059

SHEET No.
C1



EAST ELEVATION - SOUTH HALF



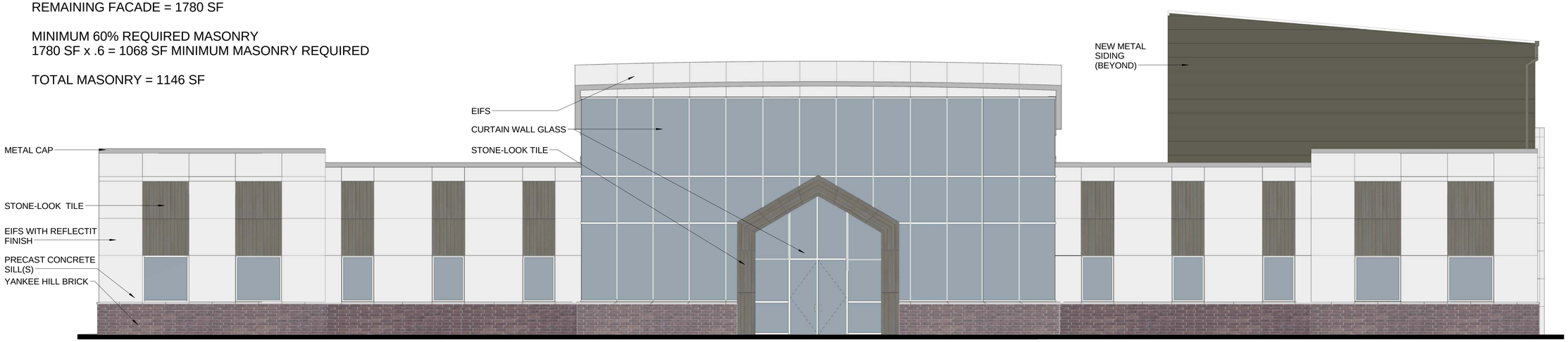
EAST ELEVATION - NORTH HALF

EXTERIOR ELEVATIONS MATERIALS % (SOUTH ELEVATION ONLY)

TOTAL FACADE SQUARE FOOTAGE = 3134 SF
MINUS TOTAL GLASS 1354 SF
REMAINING FACADE = 1780 SF

MINIMUM 60% REQUIRED MASONRY
1780 SF x .6 = 1068 SF MINIMUM MASONRY REQUIRED

TOTAL MASONRY = 1146 SF



SOUTH ELEVATION - 169TH STREET

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02.09.15 PRICING SET
02.10.15 STATE SUBMITTAL SET - CONSTRUCTION SET

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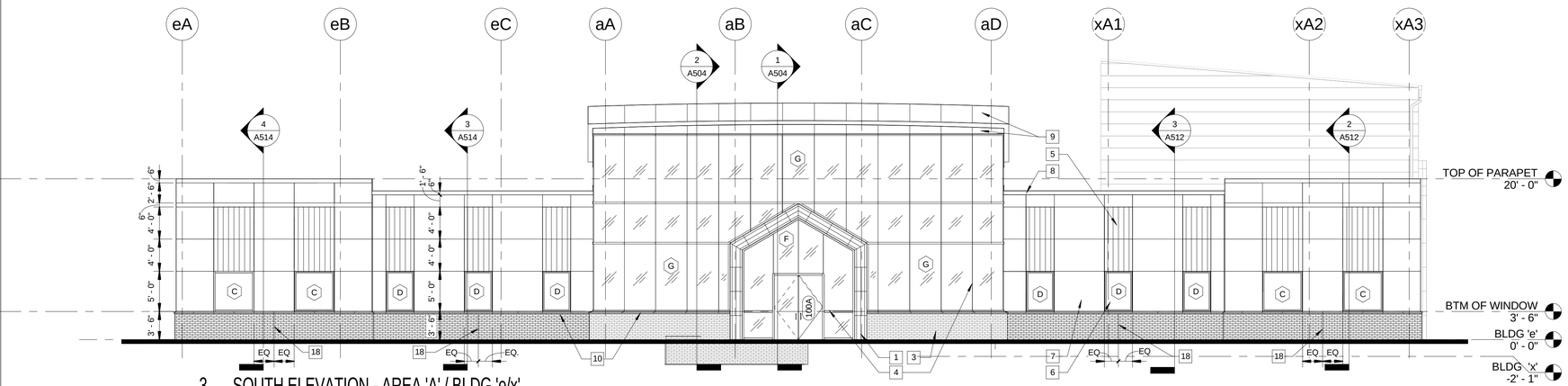
CHECKED BY: RH
MD PROJECT #: 14023

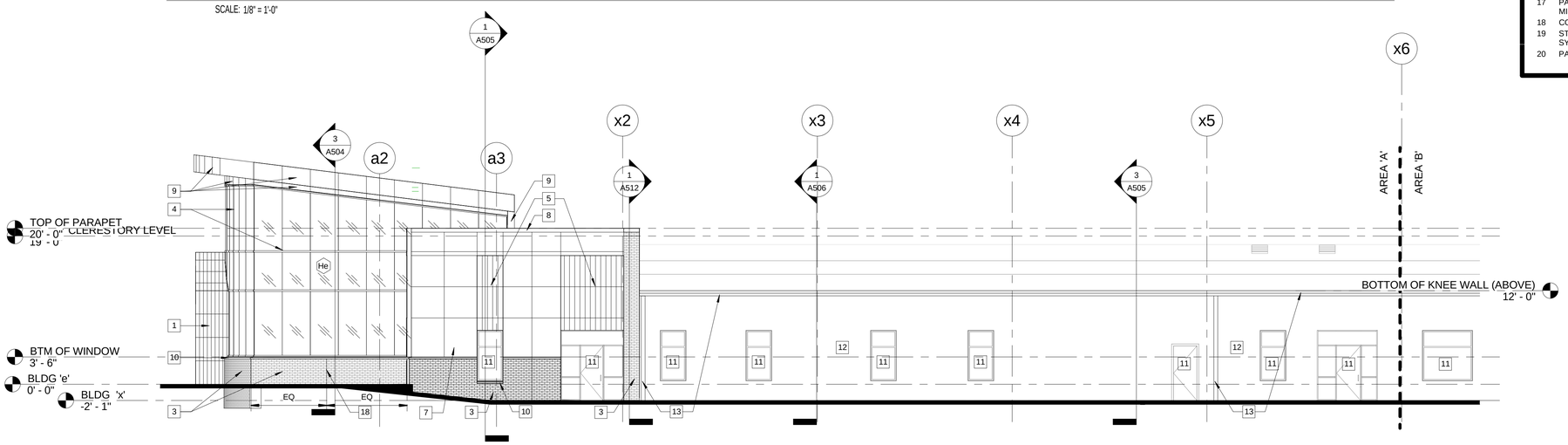
EXTERIOR ELEVATIONS

001



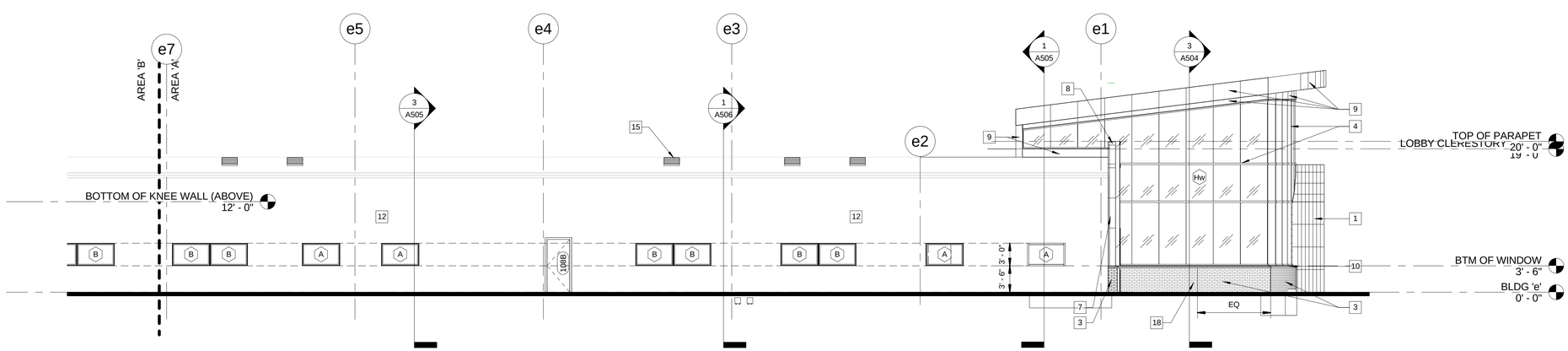
3 SOUTH ELEVATION - AREA 'A' / BLDG 'e/x'

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



2 EAST ELEVATION - AREA 'A' / BLDG 'x'

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



1 WEST ELEVATION - AREA 'A' / BLDG 'e'

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

GENERAL EXTERIOR ELEVATION NOTES

A. REFER TO SHEET G-101 FOR DOOR TYPES AND WALL DETAILS
B. DOORS/WINDOWS NOT INDICATED BY A DOOR NUMBER DESIGNATION OR TYPE ARE EXISTING.

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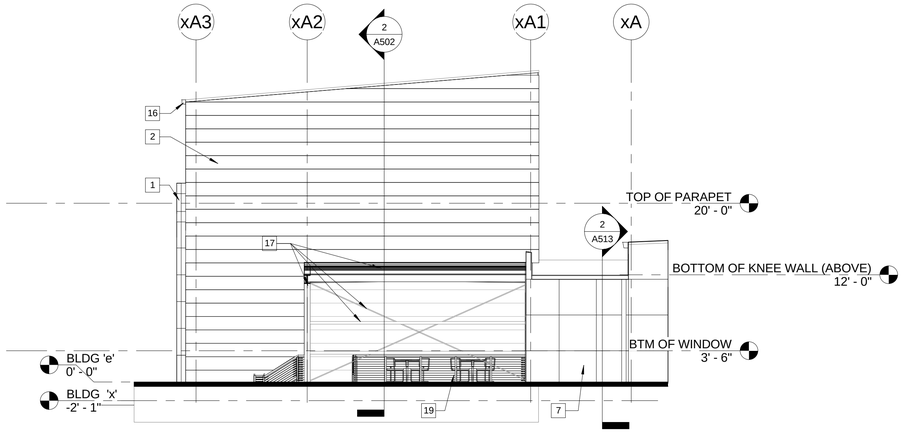
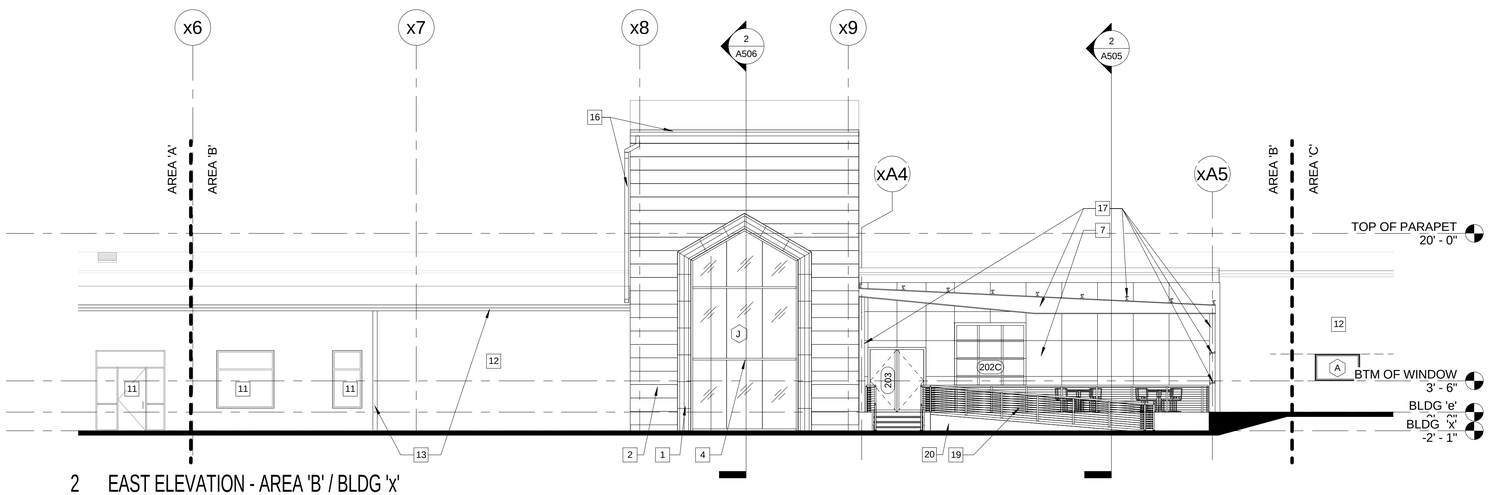
EXTERIOR ELEVATIONS

A401-A



3 NORTH ELEVATION - AREA 'B' / BLDG 'x'

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



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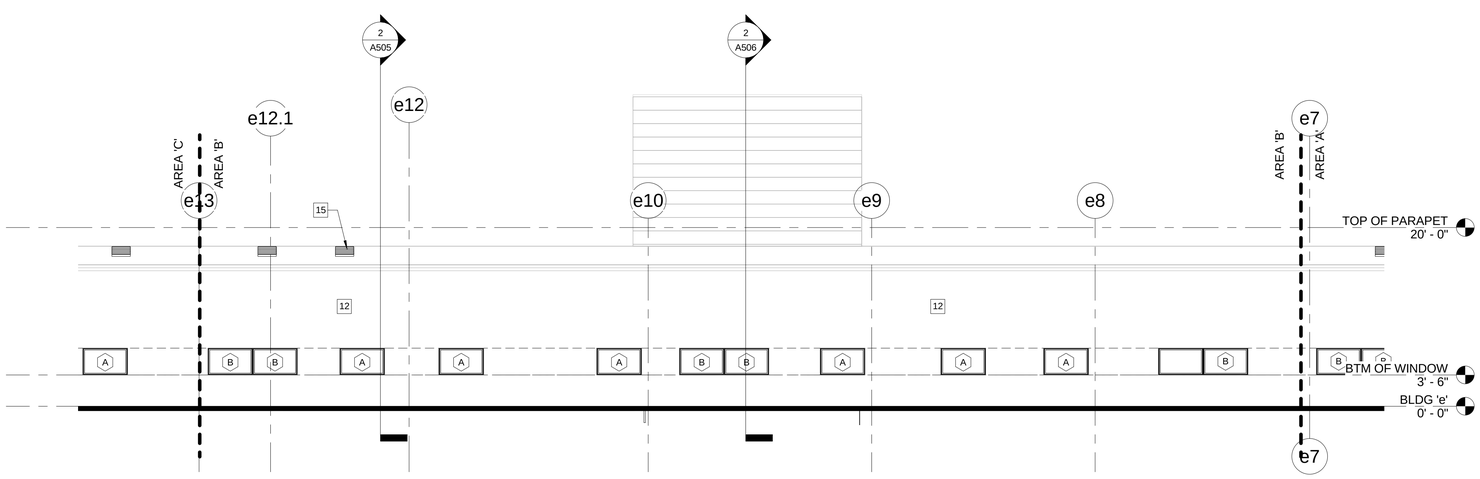

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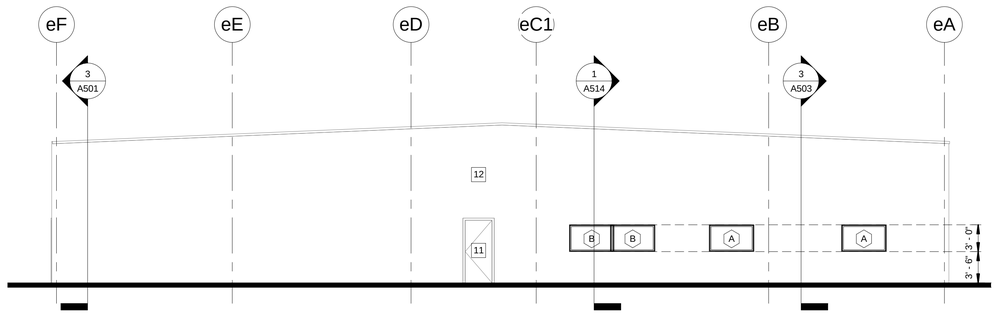
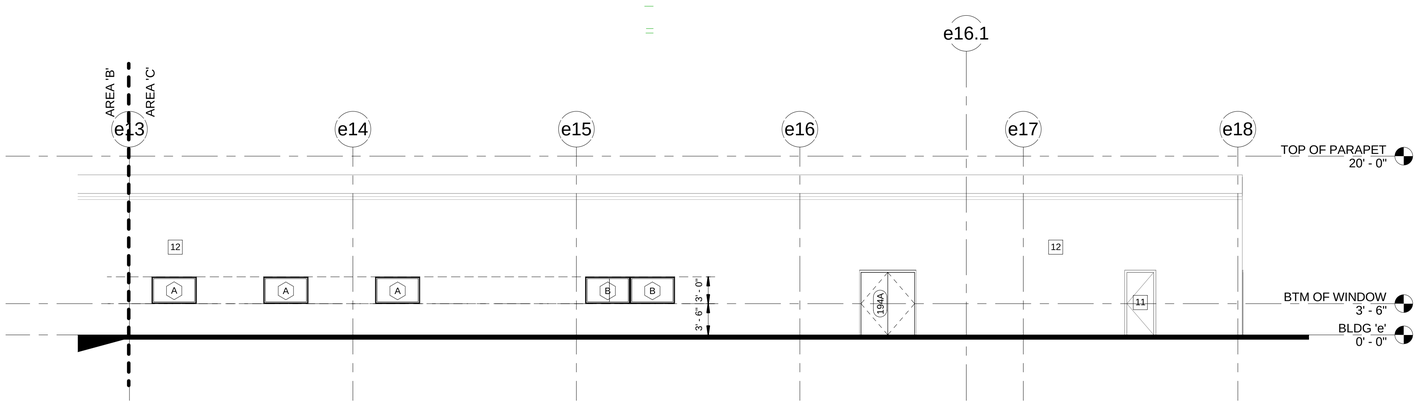
EXTERIOR ELEVATIONS

A401-B



3 NORTH ELEVATION - AREA 'C' / BLDG 'e'

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



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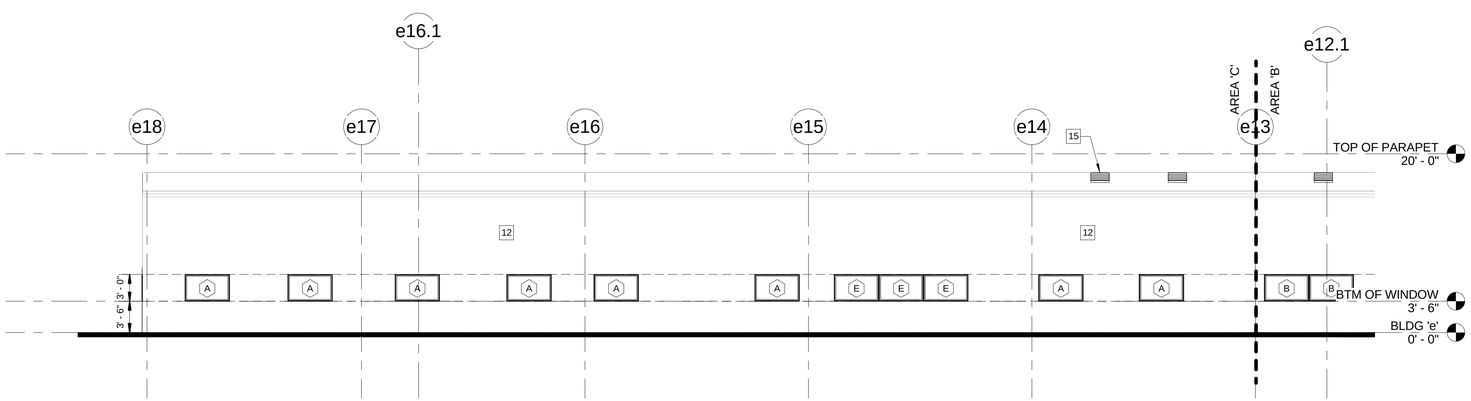

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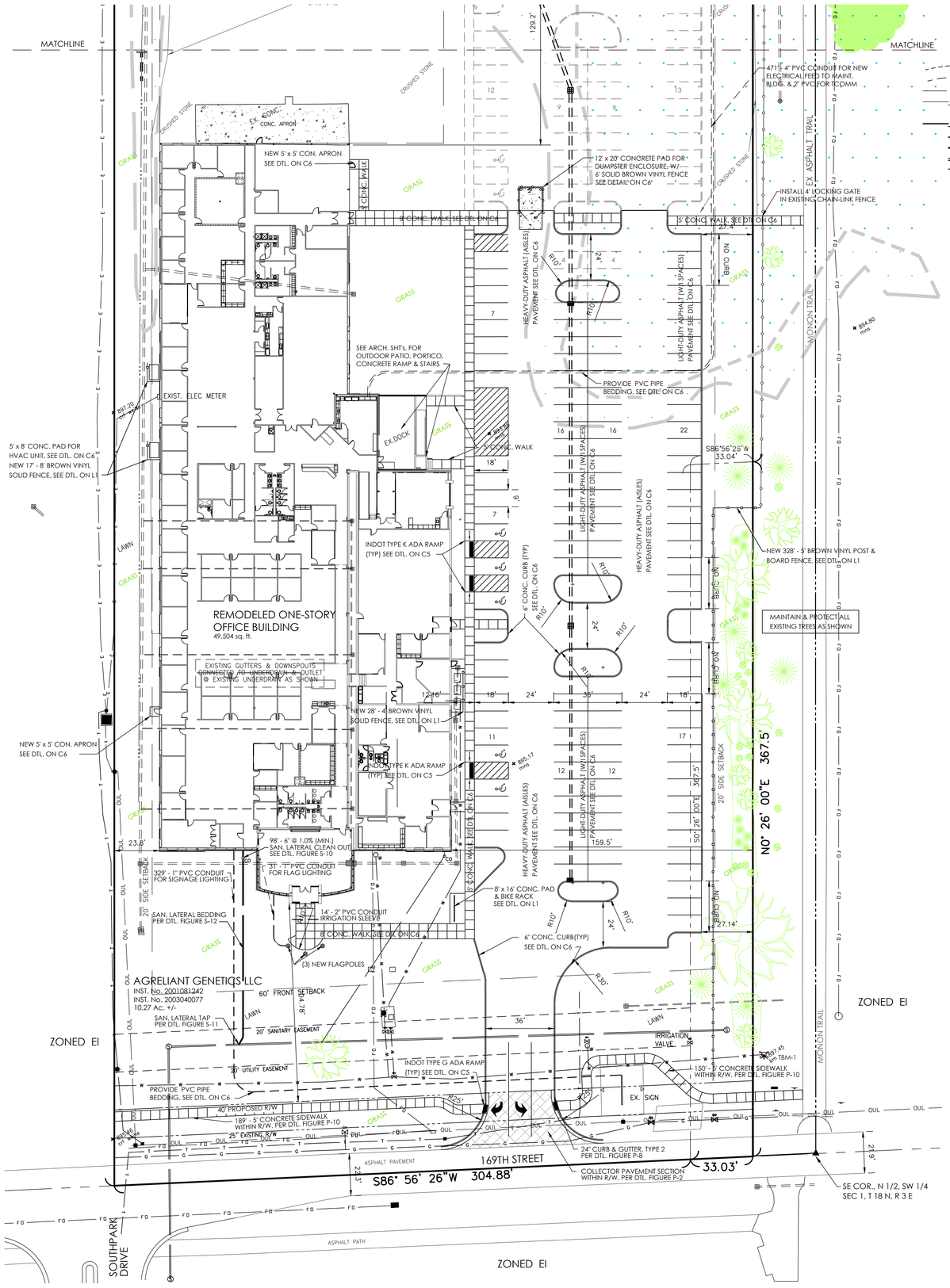
EXTERIOR ELEVATIONS

A401-C



PROPOSED LEGEND

- 1' CONTOUR LINE
- 5' CONTOUR LINE
- UNDERGROUND FIBER OPTIC
- PROPOSED UNDERGROUND ELECTRIC
- WOOD PRIVACY FENCE
- PROPOSED FIRE/SPRINKLER
- PROPOSED GAS SERVICE
- PROPOSED WATER LINE
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED SWALE
- A.D.A. SPACE
- PROPOSED WATER VALVE
- PROPOSED P.I.V.
- WATER METER
- GAS VALVE
- GAS METER
- PROPOSED SANITARY MANHOLE
- CLEAN OUT
- ELECTRIC TRANSFORMER
- CONDITIONING UNIT
- FIRE HYDRANT
- LIGHT POLE BASE
- FIRE DEPART. CONNECTION

EXISTING LEGEND

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HOLEY MOLEY SAYS

"DIG SAFELY"

"IT'S THE LAW"

CALL 2 WORKING DAYS BEFORE YOU DIG

811

CALL TOLL FREE

PER INDIANA STATE LAW IC8-1-26. IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

SITE DATA

Zoned	EI
Lot area	10.27 Ac. +/-
Demo Existing Building area	15,335 sq. ft.
Existing Office Building area	48,256 sq. ft.
Existing Maintenance Bldg. area	7,200 sq. ft.
Remodeled Office Building area	49,504 sq. ft.
Total Existing impervious area	44.3%
Total Phase 1 impervious area	37.6%
Existing parking spaces	88
Handicapped parking	5
New Phase 1 parking	115
Total parking	120
Office Area parking requirement	100
Minimum Front Yard Setback	40'
Minimum Rear Yard Setback	20'
Minimum Side Yard Setback	20'

ASPHALT PAVEMENT SPECIFICATIONS

The paving contractor shall be responsible for the following:

1. The area to be paved shall be cleared of all rock, debris, roots and vegetation. An approved soil sterilant shall be utilized to prevent the growth of weeds.

2. All soft, yielding or other unsuitable materials encountered during any phase of subgrade construction shall be removed and replaced with suitable material. The replacement material shall fill the unstable area for the entire depth of the compacted subgrade and meet the subgrade compaction requirements. The subgrade shall be shaped to the true lines and grade as shown on the plan.

3. The subgrade shall be compacted to 95% laboratory density as determined by ASSHTO Method T-99.

4. The subgrade and finish paving shall be tested by an approved testing company for uniform smoothness, density and grade.

5. The hot mix asphalt based may be placed directly on the prepared subgrade in one lift for the base course to the required compacted thickness as specified in local street standards.

6. The hot mix asphalt base and surface shall be placed in one lift to the true line and grades as shown on the plans. The paving mixture shall be placed and compacted at a temperature between 250 F. (121 C) and 300 F. (149 C).

7. The paving mixture shall be transported to the job site in clean well-covered trucks with smooth dump beds. The base and surface mixtures are to be placed with self contained, power propelled pavers capable of placing the mix to the required dimensions as shown on the plans.

8. Asphalt grade shall be determined by its ability to satisfactory coat the aggregate, resist rutting and remain stiff during high temperatures and sustain freeze/thaw cycles in addition to the considerations of anticipated weather, mixing process and curing rate.

9. See details on sheet C6 for pavement cross-sections.

10. All proposed asphalt pavement as shown shall be constructed in compliance with INDOT standard specifications, latest edition.

11. All parking striping and ADA areas shall be marked with a durable nonshrink, white point to be approved by the engineer (blue paint per ADA 2010 requirements).

SITE NOTES

1. Site Information was taken from Keeler-Webb Ass., dated 2/04/15. It is the contractor's responsibility to verify existing site conditions prior to starting work.

2. The contractor shall be responsible for obtaining or verifying that all permits and approvals are obtained from the respective city, county, and /or state agencies prior to starting construction.

3. The Plumbing contractor shall consult with the Local Water Company, provide all materials and labor, and pay all costs not borne by the Local Water Company to provide any new water or irrigation service.

4. The Plumbing contractor shall consult with the Local Gas Company, provide all materials and labor, and pay all costs not borne by the Local Gas Company to provide any new gas service.

5. The Electrical Contractor shall consult with the Local Power Company, provide all materials and labor, and pay all costs and fees not borne by the Local Power Company to provide any new underground electrical service.

6. The Electrical Contractor shall consult with the Local Telephone Company, and shall provide all labor and materials required which are not borne by the Telephone Company to provide any new telephone service.

7. All utility service lines shall be constructed in accordance with all the latest applicable codes and to each utility's and/or city's standards.

8. Use compacted granular fill when utility lines are placed under walks and driveways.

9. Soil borings have not been performed, general contractor to hire a reputable firm to perform soils testing and report and follow said recommendations and forward a copy to the engineer for review.

10. Provide sleeves for mechanical work as required.

11. Notify Engineer at least 1 day (24 hours) prior to placing any concrete.

12. Areas between curbing, sidewalks, paving and building shall be filled with 4" of topsoil suitable for landscaping.

13. See this sheet for exterior concrete specifications.

14. This structure shall comply with A.D.A. 2010.

15. All edge of pavement radii are 5 feet unless otherwise noted. All dimensions are measured perpendicular from face of building, edge of pavement, or face of curb, unless otherwise noted.

16. If active utilities are encountered but not shown on the drawings, the engineer shall be advised before work is continued.

17. 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 and the engineer.

CONCRETE NOTES

1. ACI 318, "Building Code Requirements for Reinforce Concrete": comply with applicable provisions except as otherwise indicated.

2. Employ acceptable testing laboratory to perform materials evaluation, testing and design of concrete mixes.

3. Perform sampling and testing during concrete placement, as follows:

Air content ASTM C 173, one for each set of compressive strength specimens, 6 % minimum on all concrete exposed to freezing or thawing.

Compressive strength ASTM C 39, one set of each 50 cu. yds. or fraction thereof each class of concrete; one specimen tested at 7 days, one specimen tested at 28 days, and one retained for later testing if required.

When the total quantity of given class of concrete is less than 50 cu. yds. strength tests may be waived by Engineer if field experience indicates evidence of satisfactory strength.

Test results will be reported in writing to Engineer or general contractor. Contact the Concrete Producer within 24 hours after tests are made.

4. Concrete for exterior pavement, slabs, walks, patios, and curbs shall have a 28 day compressive strength of not less than 4,000 psi for all exterior poured concrete.

5. Mix design may be adjusted when material characteristics, job conditions, weather, test results or other circumstances warrant. Do not use revised concrete mixes until submitted to and accepted by Engineer.

6. Portland Cement ASTM C 150, Type as required.

7. ASTM C 33, except local aggregates of proven curability may be used when acceptable to Engineer. Used evenly mixed sizes of aggregate up to ½" minimum size.

8. Water: Drinkable

9. Air-Entraining Admixture: ASTM C 260.

10. Water-Reducing Admixture: ASTM C 494; type as required to suit project conditions. Only use admixtures which have been tested and accepted in mix designs.

11. Provide form materials with sufficient stability to withstand pressure of placed concrete without bow or deflection.

12. Deformed Reinforcing Bars: ASTM A 615, Grade 60, unless otherwise indicated.

13. Welded Wire Fabric: ASTM A 185.

14. Job Site Mixing: Use drum type batch machine mixer, mixing not less than 1-1/2 minutes for one cu. yd. or small capacity. Increase mixing time at least 15 seconds for each addition cu. yd. or fraction thereof.

15. Ready Mix Concrete: ASTM C 94

16. Construct framework so that concrete members and structures are of correct size, shape, alignment, elevation and position.

17. Clean and adjust forms prior to concrete placement. Apply form release agents or wet forms as required. Retighten forms during concrete placement if required to eliminate leaks.

18. Satisfactory soil material shall be free of clay, rock or gravel larger than 2" in any dimension, debris, waste, frozen material vegetable and other deleterious organic matter. Soil shall consist of nonorganic, low plastic (PI 20) material.

19. Sub-base material: shall be naturally or artificially grade mixture of natural or crushed gravel, crushed stone, crushed slag, natural or crushed sand.

20. Barricade open excavations occurring as part of this work and post with warning lights.

21. Protect structures, utilities, sidewalks, pavements and other facilities from damage caused by settlement, lateral movement, undermining, washout and other hazards created by earthwork operations.

22. Form concrete such that favorable drainage occurs to storm drains, stairwell drains, and/or parking lots. No drainage should occur towards the foundation of building walls.

23. Minimum concrete cover shall be 3" for reinforcing steel in accordance with (ACI 318-83).

24. Welding, including tack welding, of reinforced steel is prohibited. Welding of reinforcing steel will be permitted only by written approval of the Engineer.

25. Footings shall bear on undisturbed material. Any unsuitable material shall be removed. All footing excavations shall be inspected by an independent soils engineer at direction of general contractor before concrete is placed.

26. Soils exposed in the bases of all satisfactory foundation excavations shall be protected against any detrimental change in conditions such as disturbance, rain or freezing. Surface runoff shall not be allowed to enter the excavation.

27. Provide construction, isolation and control joints as indicated on civil sheets.

28. All exterior concrete shall be finished with a light broom type surface.

29. The sub-contractor shall provide specifications and manufacturers data for concrete sealer, joint filler, and curing compound for all floor slabs, to the Engineer prior to installation for approval.

30. All soft, yielding or other unsuitable materials encountered during any phase of subgrade construction shall be removed and replaced with suitable material. The replacement material shall fill the unstable area for the entire depth of the compacted subgrade and meet the subgrade compactions requirements. The subgrade shall be shaped to the true lines and grade as shown on the plans.

31. The subgrade shall be compacted to 95% laboratory density as determined by AASHTO Method T-99.

32. The subgrade and finish paving shall be tested by an approved testing company at the direction of the general contractor for uniform smoothness, density and grade.

SANITARY SEWER LATERAL NOTES

1. Sanitary Sewer lateral construction shall conform to City of Westfield sewer specifications and shall prevail as to materials and methods of construction.

2. Sanitary sewer laterals shown were designed with PVC pipe in accordance with ASTM D-3034 (SDR 35) and slope a minimum of 1 feet/100 feet.

3. All PVC joints shall be premolded, manufactured and installed in accordance with ASTM C-425-6 OT.

4. Where water lines and sanitary sewer lines run parallel with one another, a minimum of 10 feet horizontal separation shall be maintained.

5. No roof drains, footing drains and/or surface drains may be connected to the sanitary sewer system including temporary connections during construction.

6. Building shall be serviced by a 6" minimum sanitary sewer lateral. The ends shall be plugged and sealed with water tight plastic disc. Wyes are to be tilted up 45 degrees from horizontal, with suitable fittings for all changes in direction.

7. Clean outs see details in City of Westfield Standards shall be provided every 100 lineal feet of lateral and at each bend greater than 45 degrees.

CONTRACTOR TO ADHERE TO WESTFIELD GRAVITY SANITARY SEWER STANDARDS AND DETAIL SHEETS FOR THE FOLLOWING:

BUILDING SERVICE CONNECTION DETAIL 1, FIGURE S-10
BUILDING SERVICE CONNECTION DETAIL 2, FIGURE 2-11
BUILDING SERVICE BEDDING DETAIL, FIGURE S-12

CONTRACTOR TO ADHERE TO WESTFIELD PAVING STANDARDS AND DETAIL SHEETS FOR THE FOLLOWING:

ENTRANCE WITHIN R/W PAVEMENT SECTION (COLLECTOR), FIGURE P-2
CONCRETE CURB & GUTTER WITHIN R/W (TYPE 2, FIGURE P-8
5' SIDEWALK IN R/W, FIGURE P-10
DRIVEWAY DETAIL IN R/W , FIGURE P-17
REPAIR CUTS WITHIN R/W DETAIL, FIGURE P-19

PROPOSED SITE PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

NORTH

DATE	ISSUE
2-09-2014	PRE-FILING CONFERENCE
2-26-2014	WESTFIELD - DP SUBMITTAL

KEELER-WEBB ASSOCIATES
Consulting Engineers–Planners–Surveyors
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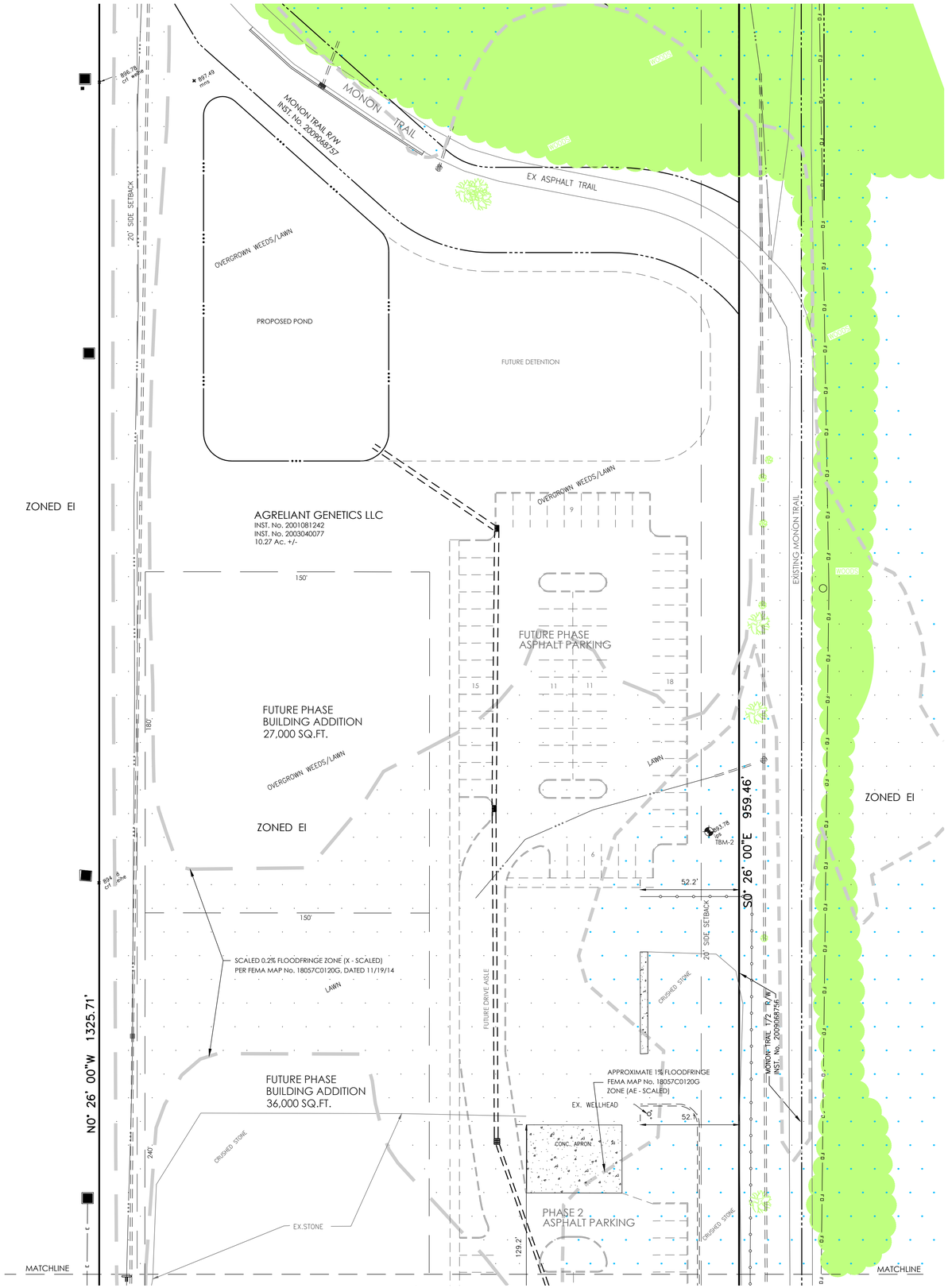
AgReliant GENETICS
1122 East 169th Street
Westfield, Indiana 46074
317.896.5552

DRAWN BY: CPW
CHECKED BY: ALD

PROJECT No. 1410-059

SHEET No. C2



PROPOSED LEGEND

- 1' CONTOUR LINE
- 5' CONTOUR LINE
- UNDERGROUND FIBER OPTIC
- PROPOSED UNDERGROUND ELECTRIC
- WOOD PRIVACY FENCE
- PROPOSED FIRE/SPRINKLER
- PROPOSED GAS SERVICE
- PROPOSED WATER LINE
- PROPOSED SANITARY
- PROPOSED STORM SEWER
- PROPOSED SWALE
- A.D. SPACE
- PROPOSED WATER VALVE
- PROPOSED P.I.V.
- WATER METER
- GAS VALVE
- GAS METER
- PROPOSED SANITARY MANHOLE
- CLEAN OUT
- ELECTRIC TRANSFORMER
- CONDITIONING UNIT
- FIRE HYDRANT
- LIGHT POLE BASE
- FIRE DEPART. CONNECTION

EXISTING LEGEND

- EXISTING GAS LINE
- PROPERTY LINE
- ADJOINER/SECTION LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- SETBACK LINE
- EASEMENT
- EXISTING OVERHEAD UTILITY LINES
- EXISTING UNDERGROUND PHONE
- EXISTING TELECOMMUNICATIONS
- EXISTING WATER LINE
- SANITARY SEWER LINE
- STORM SEWER
- FLOW LINE
- SIGNS
- MAILBOX
- STORM INLETS
- STORM MANHOLE
- SOIL BORING
- UTILITY POLE
- WATER VALVE
- PHONE MANHOLE
- UTILITY PEDESTAL

HOLEY MOLEY SAYS

"DIG SAFELY"

"IT'S THE LAW"

CALL 2 WORKING DAYS BEFORE YOU DIG

811

CALL TOLL FREE

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GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

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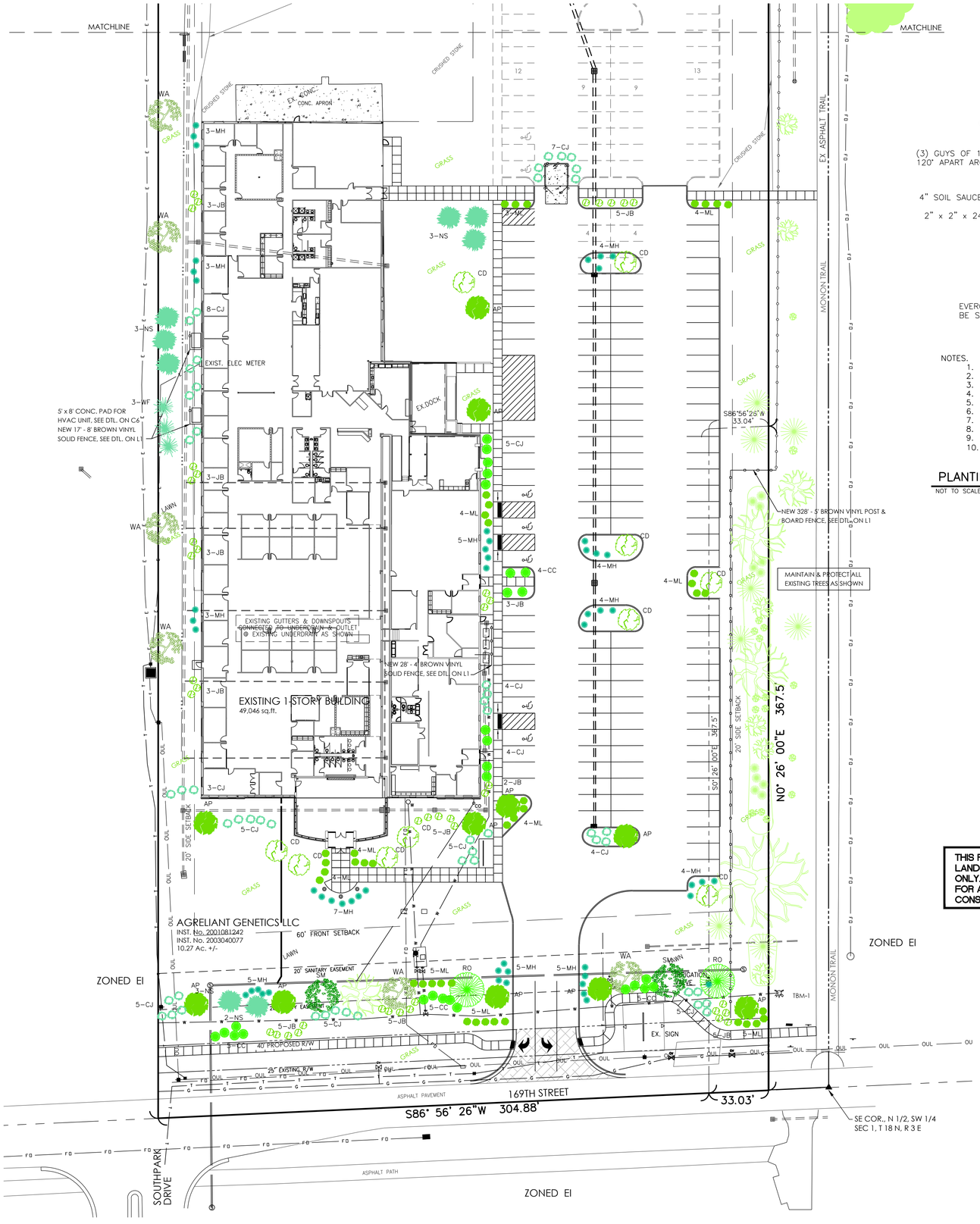
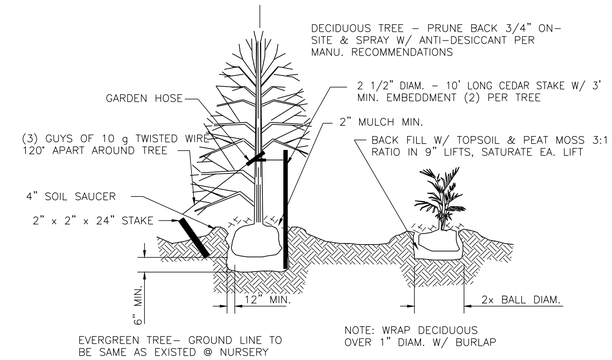


THIS PLAN TO BE USED FOR LANDSCAPING PURPOSES ONLY. REFER TO OTHER SHEETS FOR ALL DIMENSIONS AND/OR CONSTRUCTION SPECIFICATIONS



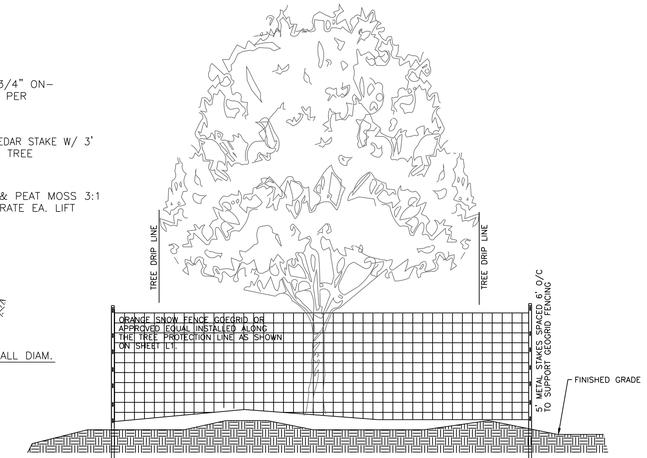
NOTES.

1. FOR POORLY DRAINED SOILS PLANT ROOT BALL 1/3 ABOVE EXISTING GRADE.
2. SLOPE GRADE AWAY FROM ROOTS TO 2x DIAMETER OF ROOT BALL.
3. ROOT FLARE TO BE PLANTED @ GROUND LEVEL ON ALL TREES.
4. TRUNK WRAP SENSITIVE TREES. ONLY.
5. WATER TREES WITH 1 1/2" OF WATER @ TIME OF PLANTING.
6. BACKFILL TO 2x THE DIAMETER OF THE ROOT BALL WITH SUITABLE TOPSOIL.
7. REMOVE ALL STRING AND TWINE, ROLL BURLAP DOWN INTO HOLE.
8. SLOPE SIDES OF HOLE TO 2x THE ROOT BALL DIAMETER.
9. EXCAVATE NECESSARY SOILS TO STABILIZE PLANTING TO PREVENT TIPPING OVER.
10. REMOVE ALL STAKES AND WIRES WITHIN ONE YEAR.

PLANTING DETAILS FOR TREES & SHRUBS

NOT TO SCALE

1 / L1



A. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE.
1. WATER TREES AND OTHER VEGETATION TO REMAIN WITHIN LIMITS OF CONTRACT, WORK AS REQUIRED TO MAINTAIN THEIR HEALTH DURING COURSE OF CONSTRUCTION OPERATIONS.
2. PROVIDE PROTECTION FOR ROOTS OVER 1-1/2 INCH IN DIAMETER THAT ARE CUT DURING CONSTRUCTION OPERATIONS. COAT CUT FACES WITH AN EMULSIFIED ASPHALT OR OTHER ACCEPTABLE COATING FORMULATED TO USE ON DAMAGED PLANT TISSUES. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT ROOTS FROM DRYING OUT; COVER WITH EARTH AS SOON AS POSSIBLE.
3. REPAIR OR REPLACE TREES AND VEGETATION INDICATED TO REMAIN THAT ARE DAMAGED BY CONSTRUCTION OPERATION IN A MANNER ACCEPTABLE TO ARCHITECT. EMPLOY A LICENSED ARBORIST TO REPAIR DAMAGE TO TREES AND SHRUBS.

B. OWNER TO HIRE QUALIFIED LANDSCAPE CONTRACTOR OR TREE SERVICE FIRM TO SELECTIVELY CLEAR WOOD LOT. ALL BRUSH AND SHRUBBERY INCAPABLE OF ACHIEVING A HEIGHT OF 20 FEET OR GREATER SHALL BE REMOVED. AREAS WHICH HAVE TREE SAPLINGS SPACED CLOSER THAN 5 FEET ON CENTER SHALL BE THINNED TO ALLOW THE NICEST SHAPED AND MOST DESIRABLE SPECIES TO THRIVE. ALL DEAD TREES SHALL BE REMOVED. TREE SAPLINGS SHALL BE MAINTAINED IN A VARIETY OF SIZES TO ASSURE THAT AS OLDER TREES DIE, YOUNGER REPLACEMENTS WILL BE PRESENTS.

C. THE ENTIRE TREE PRESERVATION AREA SHALL BE MULCHED BY HAND TO ALLOW FOR AN EASILY MAINTAINED NEAT APPEARANCE.

TREE PROTECTION DETAIL

NOT TO SCALE

2 / L1

TREE AND SHRUB PLANTING SCHEDULE

KEY	SCIENTIFIC NAME	COMMON NAME	SIZE (min.)	ROOTING	SPACING	QUANTITY
MH	JUNIPERUS CHINESIS	MESERVEAE HOLLY	18"	BALL & BURLAP	3' o.c.	52
ML	SYRINGA PATULA	MISS KIM LILAC	18"	BALL & BURLAP	3' o.c.	42
CJ	JUNIPERUS CHINESIS	COMAPCT JUNIPER	18"	BALL & BURLAP	3' o.c.	51
CC	CONTONEASTER APICULATUS	CRANBERRY COTTONEASTER	18"	BALL & BURLAP	3' o.c.	28
JP	BERBERIS THUNBERGII	JAPANESE BARBERRY	18"	BALL & BURLAP	3' o.c.	42
WA	SORBUS ARIA	WHITE MOUNTAIN ASH	8' HIGH 2" cal.	WIREBALL	AS SHOWN	6
SM	ACER SACCHRUM	SUGAR MAPLE	8' HIGH 2" cal.	WIREBALL	AS SHOWN	2
RO	QUERCUS RUBRA	RED OAK	8' HIGH 2" cal.	WIREBALL	AS SHOWN	2
CD	CORNELIAN MAS	CHERRY DOGWOOD	2" cal.	WIREBALL	AS SHOWN	10
AP	PRYUS CALLERYANA	ARISTOCRAT PEAR	2" cal.	WIREBALL	AS SHOWN	11
WF	ABIES CONCOLOR	WHITE FIR	6' HIGH	BALL & BURLAP	AS SHOWN	3
NS	PICEA ABIES	NORWAY SPRUCE	6' HIGH	BALL & BURLAP	AS SHOWN	8

NOTES:

1. ALL GREEN AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL. MULCH SEEDING SHALL BE INSTALLED IN SUCH A WAY AS TO NOT ERODE AWAY.
2. PLANTING AREAS AND TREE LOCATIONS SHALL HAVE MULCH 3" DEEP (MINIMUM).
3. ALL MULCH SEEDING AREAS SHALL BE LOOSENED TO A MINIMUM DEPTH OF 3" BEFORE FERTILIZER AND SEED ARE INSTALLED.
4. ALL TREES SHALL BE STAKED.
5. ALL EXTERIOR MECHANICAL EQUIPMENT SHALL BE SCREENED WITH LANDSCAPING.
6. 75 EXISTING TREES WILL REMAIN ON THE SITE AS SHOWN AND SHALL NOT BE DISTURBED DURING CONSTRUCTION.

LANDSCAPING PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

NORTH

DATE	ISSUE
2-09-2014	PRE-FILING CONFERENCE
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KEELER-WEBB ASSOCIATES
Consulting Engineers–Planners–Surveyors
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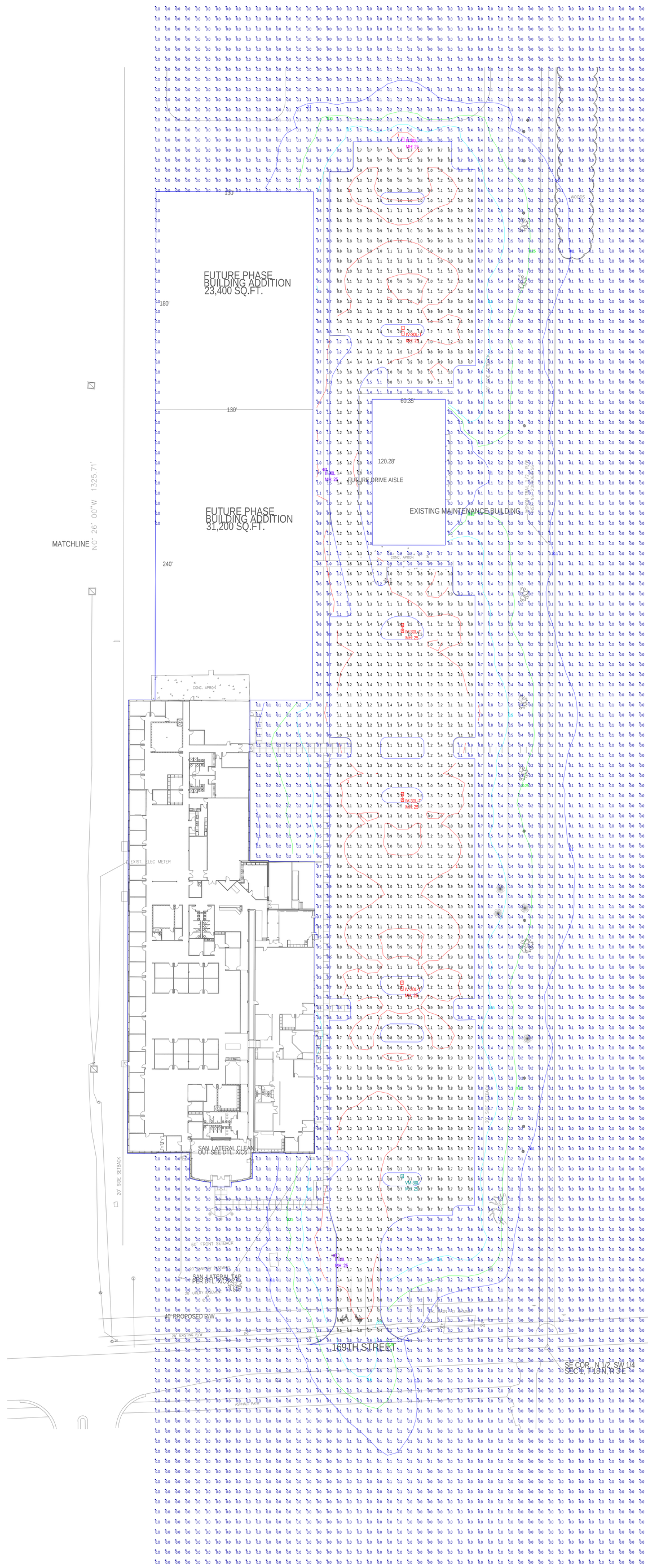
317.896.5552

DRAWN BY: ALD
CHECKED BY: ALD

PROJECT No. 1410-059

SHEET No. L1

ESL SPECTRUM
LIGHTING / CONTROLS / DESIGN



PHOTOMETRIC PLAN DESIGNED BY ESL-SPECTRUM
WWW.ESL-SPECTRUM.COM
PHONE: 317.951.2300

Luminaire Schedule								
Project: 20150089-TB AG RELIENT - SITE LIGHTING								
Symbol	Qty	Label	Arrangement	Lum. Watts	Lum. Lumens	LLF	Description
	2	II-30L	SINGLE	67	6384	0.800	CL1-x-30L-1-5K-2
	1	IV-30L	SINGLE	72.4	6641	0.800	CL1-x-30L-1-5K-4
	4	IV-30L-T	BACK-BACK	72.4	6641	0.800	CL1-x-30L-1-5K-4 - TWIN
	1	VM-30L	SINGLE	73.3	7108	0.800	CL1-x-30L-1-5K-5M

CALCULATIONS ARE MAINTAINED HORIZONTAL ILLUMINANCE FIGURES IN FOOT-CANDLES
POINTS SHOWN ARE AT GRADE
FIXTURES ARE MOUNTED 25' A.F.G.

Calculation Summary							
Project: 20150089-TB AG RELIENT - SITE LIGHTING							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PERIMETER	Illuminance	Fc	0.16	1.6	0.0	N.A.	N.A.
SITE_Planar	Illuminance	Fc	1.09	2.8	0.4	2.73	7.00

ESL-Spectrum's services are for estimation purposes only, and are not warranties.
Final design and illumination levels must be determined and specified by an electrical engineer.
Field results may differ from computer predictions because of many uncontrollable factors and adverse test conditions such as:
line voltage variations, lamp performance, product manufacturing tolerances, jobsite conditions, and other unrecoverable light-loss factors.

THE FIXTURE TYPE(S) AND LAMPING(S) SPECIFIED ON THIS LAYOUT MUST BE USED IN ORDER TO MEET THE EXACT CRITERIA AND PERFORMANCE DATA SHOWN.
IES RECOMMENDED ILLUMINANCE TARGETS USED WHERE APPLICABLE.

EXTERIOR LIGHTING PLAN

NORTH

GRAPHIC SCALE

0 30 45 60 90 150

Scale: 1 inch= 20 Ft.

Cimarron LED

(http://www.spauldinglighting.com/content/products/images/cimarron_led_large.jpg)

Cimarron LED

Applications

- Spaulding's most popular area site lighting fixture newly designed with the most advanced LED lighting technology to deliver energy efficiency, safety and security to meet today's outdoor site lighting needs.

Features

- Cimarron LED incorporates a unique vertically-finned die-cast housing that optimizes heat transfer to keep the fixture cool and maximize component life
- Multiple LED configurations with over 26,000 lumens
- DesignLights Consortium (DLC) listed
- Design flexibility is optimized with 32 high brightness LED light engine configurations in IES type II, III, IV and V distributions enables mounting heights from 15ft to over 35ft
- Maintenance free housing designed to IP65 and 60,000 hours life
- Energy control option uses less than 50% of the energy of an equivalent HID at full brightness
- Internal self-monitoring sensor detects above-tolerance temperatures and automatically reduces heat load to preserve LED life
- Mounting versatility with choice of traditional straight, architectural upswept die-cast aluminum or mast arm fitter designs
- Optional vandal resistant guard provides additional protection when necessary

Certifications

- UL1598A
- CSA
- Wet listed
- DesignLights Consortium (DLC) qualified

Downloads

Spec Pages

Cimarron LED Spec Sheet
(http://www.spauldinglighting.com/content/products/specs/specs_files/cimarron_led_spec_sheet.pdf)

Instruction Sheets

Cimarron LED Instruction Sheet
(http://www.spauldinglighting.com/content/products/instructions/instructions_files/cimarron_led_instruction_sheet.pdf)

Cimarron LED CL1 Mast Arm instructions
(http://www.spauldinglighting.com/content/products/instructions/instructions_files/cimarron_cl1_mast_arm_instructions.pdf)

PSG Pages

Cimarron LED PSG page
(http://www.spauldinglighting.com/content/products/psg/psg_files/spa_cl1_psg.pdf)

Literature

Cimarron LED CL1 & CL1S brochure
(http://www.spauldinglighting.com/content/products/literature/literature_files/cimarronled_cl1s_brochure_ln.pdf)

Photometry

CL-90L-4K-2A – 2A Auto Optic
(http://www.spauldinglighting.com/content/products/ies/ies_files/cl1_90l-4k-2a.IES)

(http://
InputC
3Ffiler
3DCL1
90L-
4K-
2A.IES
26imag
3Dima
26curr
3DCL1
90L-
4K-
2A.IES

Videos

Cimarron LED Auto Dealership Lighting

(//www.youtube.com/v/WI9ENu1v97M)

Cimarron LED Auto Dealership Lighting

Related Links

Outdoor Controls Guide (http://www.hubbelllighting.com/solutions/controls/)

Parking Area Design guide (http://www.spauldinglighting.com/resources/energy-efficient-lighting-designs-parking-areas/)

Before and After LED relight/retrofit (http://www.spauldinglighting.com/resources/before-and-after-led-relight-retrofit/)

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… OR START YOUR OWN!

Spaulding Lighting's guide identifies and highlights specific attributes for each respective light source to aid in energy efficient design.

Pictures are worth MORE than a thousand words, lumens and uniformity. See the performance of LED over traditional lighting sources.

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Hubbell Lighting Brands

Alera Lighting (http://www.aleralighting.com)
Architectural Area Lighting (http://www.aal.net)
Beacon Products (http://www.beaconproducts.com)
Columbia Lighting (http://www.columbialighting.com)
Compass Life Safety (http://www.compasslightingproducts.com)
Devine Lighting (http://www.devine-ltg.com)
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Kim Lighting (http://www.kimlighting.com)
Kurt Versen (http://www.kurtversen.com)
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Sterner Lighting (http://www.sternerlighting.com)
Whiteway (http://www.whiteway-ltg.com)

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