NEW CORPORATE HEADQUARTERS

FOR:

AgReliant® GENETICS

1122 East 169th Street
Westfield, Indiana 46074

CONTACTS

CITY OF WESTFIELD		
Westfield Economic and Community Development Department(*) 2728 East 171st Street Westfield, Indiana 46074 (317) 804-3170 economicdevelopment @westfield.in.gov	**Westfield Fire Department(*)** 17535 Dartown Road Westfield, Indiana 46074 **Garry Harling** (317) 804-3307 gharling@westfield.in.gov	**Westfield G.I.S.** *(for addressing)* 2706 East 171st Street Westfield, Indiana 46074 **Leane Kmetz** (317) 804-3001 lkmetz@westfield.in.gov
Westfield Public Works Department 2706 East 171st Street Westfield, Indiana 46074 **Jeremy Lollar / Phil Sundling** (317) 804-3100 jlollar@westfield.in.gov psundling@westfield.in.gov	**Westfield Pre-Construction(*)** 2706 East 171st Street Westfield, Indiana 46074 **John Rankin** (317) 804-3147 jrankin@westfield.in.gov	**Westfield Storm Water** 2706 East 171st Street Westfield, Indiana 46074 **Mike Morgan / Wes Rood** (317) 804-3100 mmorgan@westfield.in.gov wrood@westfield.in.gov
HAMILTON COUNTY		
Hamilton County Surveyor's Office One Hamilton County Square, Suite 188 Noblesville, Indiana 46060 **Greg Hoyes** (317) 776-8495 greg.hoyes@hamiltoncounty.in.gov	**Hamilton County Auditor's Office** **Transfer & Mapping Division** 33 North 9th Street Noblesville, Indiana 46060 **Nick Christiansen** (317) 776-9624 nick.christiansen@hamiltoncounty.in.gov	**Hamilton County Health Department** 18030 Foundation Drive, Suite A Noblesville, Indiana 46060 **Larry Beard** (317) 776-8500 larry.beard@hamiltoncounty.in.gov
SERVICE PROVIDERS		
Citizens Westfield *(for water & sanitary sewer)* 2728 East 171st Street Westfield, Indiana 46074 **Harry Nikides** (317) 927-4338 / (317) 691-4974 (cell) hnikides@citizensenergygroup.com	**Citizens Gas of Westfield** 2150 Dr. Martin Luther King Drive Indianapolis, Indiana 46202 **Richard Miller, Jr.** *Construction Field Coordinator* (317) 927-4684 rmiller@citizensenergygroup.com	**Citizens Gas of Westfield** 2020 North Meridian Street Indianapolis, Indiana 46202 **Jeffrey Sinclair** *Industrial Sales Consultant* (317) 927-4744 jsinclair@citizensenergygroup.com
Duke Energy (Noblesville Office) 100 South Mill Creek Road Noblesville, Indiana 46060 **Timothy Hardin / Vincent Literal** (800) 521-2232 timothy.hardin@duke-energy.com vincent.literal@duke-energy.com	**Duke Energy (Carmel Office)** 16475 Southpark Drive Westfield, Indiana 46074 **Shirley Hunter** (317) 896-6711 shirley.hunter@duke-energy.com	**Duke Energy: Asset Protection** WF500 / 2727 Central Avenue Columbus, Indiana 47201 **Gary S. McNamee** (812) 375-2021 gary.mcnamee@duke-energy.com
Panhandle Eastern Pipeline Company 9371 Zionsville Road Indianapolis, Indiana 46268 **Troy Yackle / Mark Wood** (317) 733-3213 (Troy) (317) 733-3232 (Mark) troy.yackle@sug.com mark.wood@sug.com	**Indiana Gas / Vectren** P.O. Box 1700 Noblesville, IN 46061 **Resa Glover / Charlotte May** (317) 776-5550 tglover@vectren.com cmay@vectren.com	**Comcast Cable** 533 East 65th Street Indianapolis, Indiana 46220 **Matt Stringer** (317) 275-6493 / (317) 491-2432 (cell) matthew_stringer@cable.comcast.com **Gary Gray** (317) 275-6351 / (317) 716-2831 (cell) gary_gray@cable.comcast.com
tw telecom 4625 West 86th Street, Suite 500 Indianapolis, Indiana 46268 **Tanny Triplitt** (317) 713-8947 / (317) 716-4559 (cell) tanny.triplitt@twtelecom.com	**Bright House Networks** 3030 Roosevelt Avenue Indianapolis, Indiana 46218 **J.D. Trueblood** (317) 713-3899 / (317) 716-0932 (cell) jd.trueblood@mybrighthouse.com	**Buckeye Partners, L.P.** 940 Buckeye Road Lima, Ohio 45804 **Kyle Smith** (419) 993-8008 cksmith@buckeye.com
Marathon Pipeline LLC 10722 East County Road 300 North Indianapolis, Indiana 46234 **Austin Guyer** (317) 291-9460 x1233 aguyer@marathonpetroleum.com	**Frontier Communication** 20905 Hague Road Noblesville, Indiana 46060 **Steve Costlow** (317) 984-9010 steve.costlow@ftr.com	**AT&T** 5858 North College Avenue Indianapolis, Indiana 46220 **Steve Robinson** (317) 265-6801 sr2432@att.com
Inside Connect Cable 750 Liberty Drive Westfield, Indiana 46074 **Clay Manley** (317) 569-2800 clay@insideconnect.net		

LEGAL DESCRIPTION
AgReliant Genetics, LLC
Instrument No. 200100081242

A part of the North half of the Southwest Quarter of Section 1, Township 18 North, Range 3 East in Washington Township, Hamilton County, Indiana and being more particularly described as follows:

Beginning at a point on the South line of the North half of the Southwest Quarter of Section 1, Township 18 North, Range 3 East a distance of North 86 degrees 56 minutes 26 seconds East 2,211.07 feet from the Southwest corner of said half-quarter, said beginning point also being South 86 degrees 56 minutes 26 seconds West 370.95 feet from the centerline of the Chicago, Indianapolis and Louisville Railroad, thence North 00 degrees 26 minutes 00 seconds West and parallel to said railroad centerline a distance of 1,325.71 feet to a point on the approximate North line of said half quarter, thence North 86 degrees 43 minutes 39 seconds East over and along said approximate North line a distance of 337.98 feet to a point on the West right of way line of said railroad, said point also being South 86 degrees 43 minutes 39 seconds West 33.04 feet from the centerline of said railroad, thence South 00 degrees 26 minutes 00 seconds East on and along said West right of way line a distance of 959.46 feet, thence South 86 degrees 56 minutes 26 seconds West and parallel to the South line of said half quarter a distance of 33.03.feet, thence South 00 degrees 26 minutes 00 seconds East and parallel to railroad centerline a distance of 367.50 feet to a point on the South line of said half quarter, said point also being South 86 degrees 56 minutes 26 seconds West 66.07 feet from the centerline of said railroad, thence South 86 degrees 56 minutes 26 seconds West over and along said South line a distance of 304.88 feet to the place of beginning.

AgReliant Genetics, LLC
Instrument No. 200300040077

A part of the North half of the Southwest Quarter of Section 1, Township 18 North, Range 3 East in Washington Township, Hamilton County, Indiana and being more particularly described as follows:

Beginning at a point on the South line of the North half of the Southwest Quarter of Section 1, Township 18 North, Range 3 East a distance of North 86 degrees 56 minutes 26 seconds East 2,211.07 feet from the Southwest corner of said half-quarter, said beginning point also being South 86 degrees 56 minutes 26 seconds West 370.95 feet from the centerline of the Chicago, Indianapolis and Louisville Railroad, thence North 00 degrees 26 minutes 00 seconds West and parallel to said Railroad centerline a distance of 1,325.71 feet to a point on the approximate North line of said half quarter, thence North 86 degrees 43 minutes 39 seconds East over and along said approximate North line a distance of 337.98 feet to a point on the West right of way line of said railroad, said point also being South 86 degrees 43 minutes 39 seconds West 33.04 feet from the centerline of said railroad, thence South 00 degrees 26 minutes 00 seconds East on and along said West right of way line a distance of 959.46 feet to the point of beginning, thence South 86 degrees 56 minutes 26 seconds West and parallel to the South line of said half-quarter a distance of 33.03 feet, thence South 00 degrees 26 minutes 00 seconds East and parallel to railroad centerline a distance of 367.50 feet to a point on the South line of said half-quarter North 86 degrees 56 minutes 26 seconds East 33.03 feet thence North 00 degrees 26 minutes 00 seconds East and parallel to railroad centerline a distance of 367.50 feet to the point of beginning.

EXCEPT:

Monon Trail Right-of-Way
Instrument No. 200900068757

A part of the property described as Instrument Number 200100081242 recorded in the Office of the Recorder of Hamilton County located in the Southwest Quarter of Section 1, Township 18 North, Range 3 East, in Hamilton County, Indiana, described as follows:

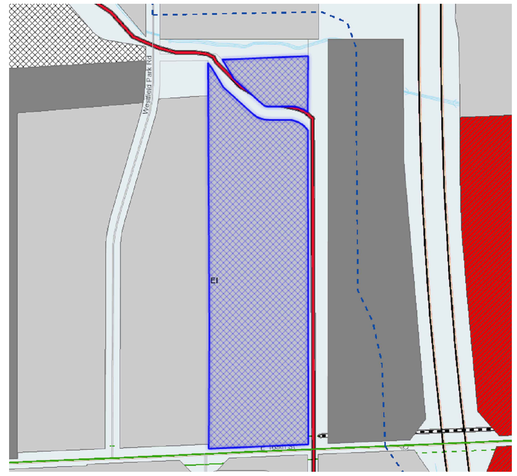
Commencing at the Northeast Corner of said Southwest Quarter; thence South 86 degrees 46 minutes 11 seconds West (basis of bearings is grid bearing of the Indiana State Plane Coordinate System, East Zone) along the North Line of said property and the North Line of said Southwest Quarter a distance of 33.05 feet to the west right-of-way line of the Monon Railroad; thence South 00 degrees 01 minutes 16 seconds East along said west right-of-way line a distance of 193.70 feet to the Point of Beginning: Thence South 00 degrees 01 minutes 16 seconds East along said West right-of-way a distance of 59.10 feet to a point on a non-tangent curve to the left having a radius of 85.00 feet, the radius point of which bears South 51 degrees 59 minutes 59 seconds West; thence northwesterly along said curve an arc distance of 77.17 feet to a point which bears North 00 degrees 01 minutes 16 seconds West from said radius point; thence South 89 degrees 58 minutes 44 seconds West a distance of 63.66 feet to a point on a curve to the right having a radius of 80.00 feet, the radius point of which bears North 00 degrees 01 minutes 16 seconds West; thence westerly along said curve an arc distance of 58.28 feet to a point which bears South 41 degrees 42 minutes 57 seconds West from said radius point; thence North 48 degrees 17 minutes 03 seconds West a distance of 135.57 feet; thence North 31 degrees 07 minutes 50 seconds West a distance of 78.71 feet; thence North 39 degrees 12 minutes 30 seconds West a distance of 18.10 feet to the west line of said property; thence North 00 degrees 00 minutes 53 seconds West a distance of 9.23 feet to said north property line; thence north 86 degrees 46 minutes 11 seconds East along said north line a distance of 48.40 feet; thence South 31 degrees 07 minutes 50 seconds East a distance of 75.10 feet; thence South 48 degrees 17 minutes 03 seconds East a distance of 128.78 feet to a point on a curve to the left having a radius of 35.00 feet, the radius point of which bears North 41 degrees 42 minutes 57 seconds East; thence easterly along said curve an arc distance of 25.50 feet to a point which bears South 00 degrees 01 minutes 16 seconds East from said radius point; thence North 89 degrees 58 minutes 44 seconds East a distance of 63.66 feet to a point on a curve to the right having a radius of 130.00 feet, the radius point of which bears South 00 degrees 01 minutes 16 seconds East; thence easterly along said curve an arc distance of 70.39 feet to a point which bears North 31 degrees 00 minutes 08 seconds East from said radius and the POINT OF BEGINNING, containing 0.42 acres of land (18,064 sq. ft.), more or less.

PERSON RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES

GENERAL CONTRACTOR

Pepper Construction
Mr. Mitch Denton
1850 West 15th Street
Indianapolis, IN 46202
317-681-1000

SHEET INDEX



WESTFIELD ZONING MAP
N.T.S.

2014 WESTFIELD GIS AERIAL
N.T.S.

This set of drawings are not intended to be represented as a entrancement or original boundary survey, a route survey, or a Surveyor Location Report.

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

ISSUE	DATE
PRE-FILING CONFERENCE	2-09-2014
WESTFIELD - DP SUBMITAL	2-26-2014
PLAN COMMISSION APPROVAL	4-13-2014

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.
COV

NOTES:

1. SITE INFORMATION

   SITE SIZE 10.27 Ac.+/-

2. TBM-1

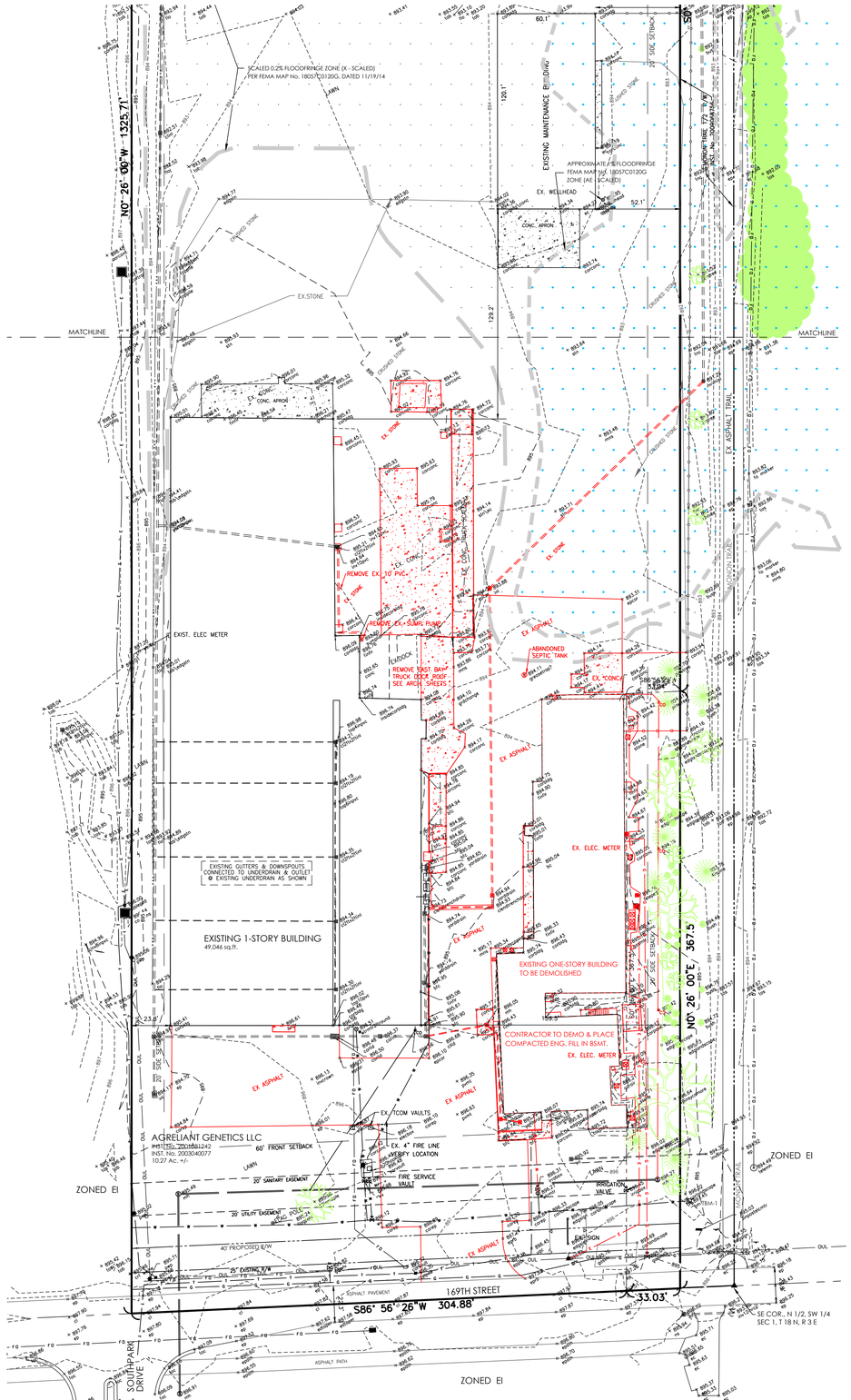
   CUT "X" ON THE EAST FLANGE BOLT OF FIRE HYDRANT, +/- 15' EAST OF EAST EDGE OF PAVEMENT OF WESTFIELD PARK ROAD, +/- 140' WEST OF THE NORTHWEST OF 17341 WESTFIELD PARK ROAD

   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

- G — EXISTING GAS LINE
- PROPERTY LINE
- ADJOINER/SECTION LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- SETBACK LINE
- EASEMENT
- E(A) — EXISTING OVERHEAD UTILITY LINES
- T — EXISTING UNDERGROUND PHONE
- T — EXISTING TELECOMMUNICATIONS
- W — 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

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

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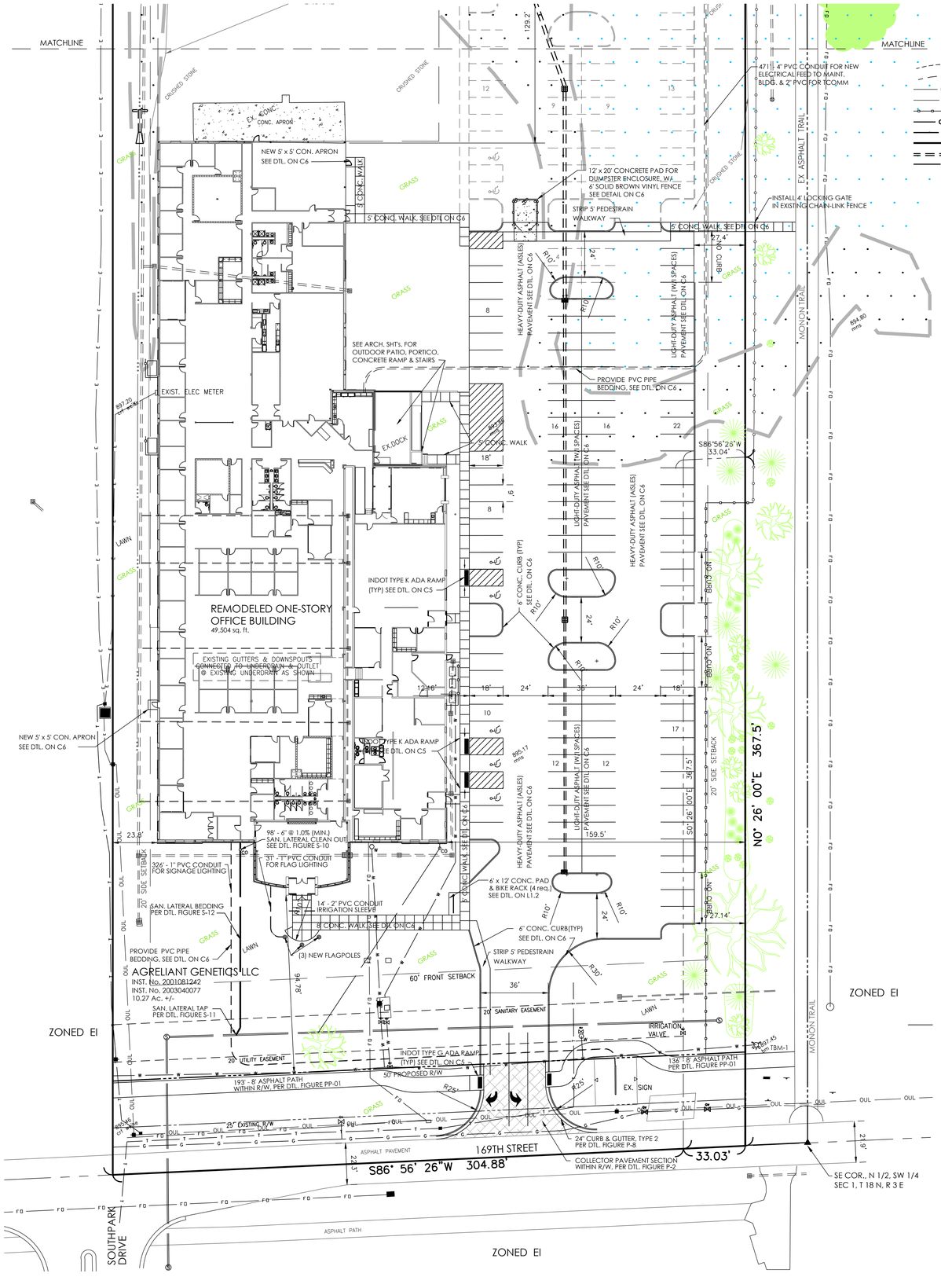
DRAWN BY: CPW
CHECKED BY: ALD

PROJECT No.
1410-059

SHEET No.
C1



PROPOSED LEGEND

- 1' CONTOUR LINE
- 5' CONTOUR LINE
- UNDERGROUND FIBER OPTIC
- PROPOSED UNDERGROUND ELECTRIC
- WOOD PRIVACY FENCE
- 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

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

ALL PARKING LIGHTING SHALL BE REDUCED (e.g. TURNED OFF OR DIMMED) BY A MINIMUM OF 30% WITHIN 30 MINUTES OF CLOSING OF THE LAST BUSINESS OR NOT LATER THAN 11:00 pm.

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.
Assignable Office area	30,150 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 (P1 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 0T.

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

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

DATE	ISSUE
2-09-2014	PRE-FILING CONFERENCE
2-26-2014	WESTFIELD - DP SUBMITTAL
4-13-2014	PLAN COMMISSION APPROVAL

KEELER-WEBB ASSOCIATES
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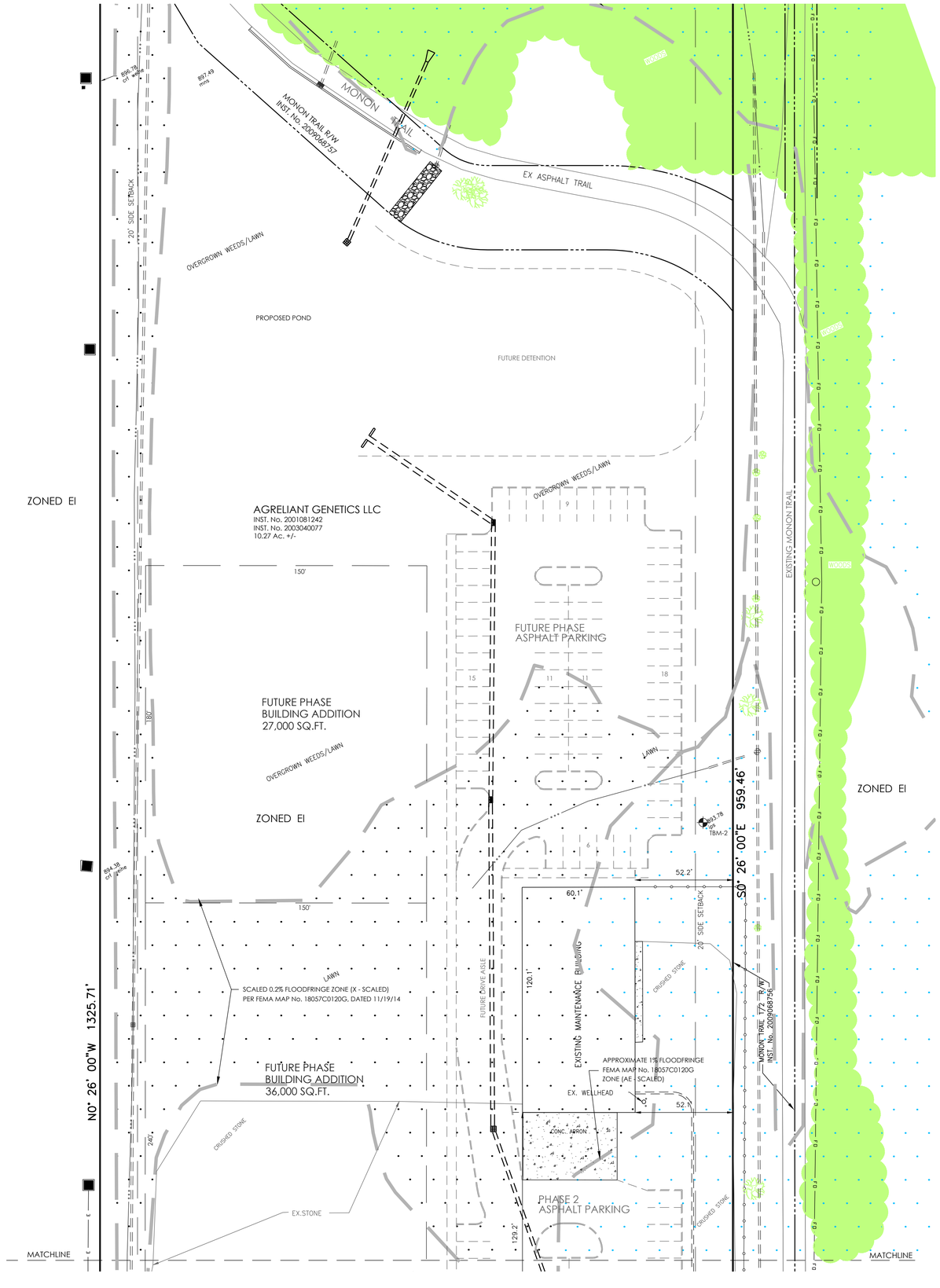
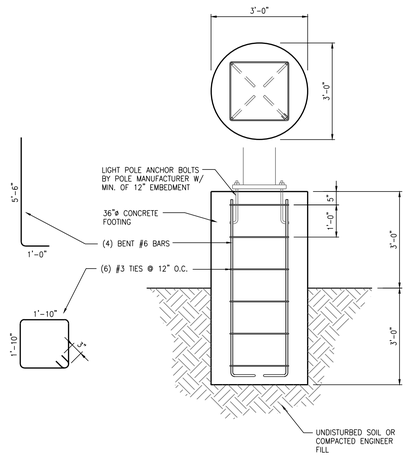
PROJECT No. 1410-059

SHEET No. C2.1





LIGHT POLE FOUNDATION DETAIL (1 / C2.2)
NOT TO SCALE

PROPOSED LEGEND

- 1' CONTOUR LINE
- 5' CONTOUR LINE
- FO UNDERGROUND FIBER OPTIC
- E PROPOSED UNDERGROUND ELECTRIC
- WOOD PRIVACY FENCE
- GAS 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

- G EXISTING GAS LINE
- PROPERTY LINE
- ADJOINER/SECTION LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- SETBACK LINE
- EASEMENT
- E(A) EXISTING OVERHEAD UTILITY LINES
- T EXISTING UNDERGROUND PHONE
- TEL EXISTING TELECOMMUNICATIONS
- W EXISTING WATER LINE
- SANITARY SEWER LINE
- STORM SEWER
- FLOW LINE
- SIGNS
- MAILBOX
- STORM INLETS
- STORM MANHOLE
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- UTILITY POLE
- WATER VALVE
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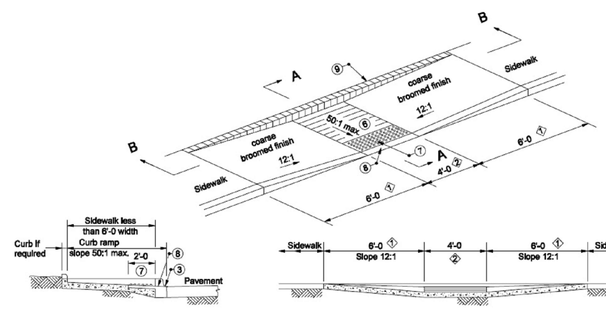


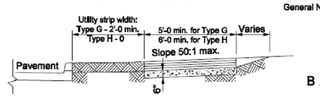
SECTION A-A

SECTION B-B

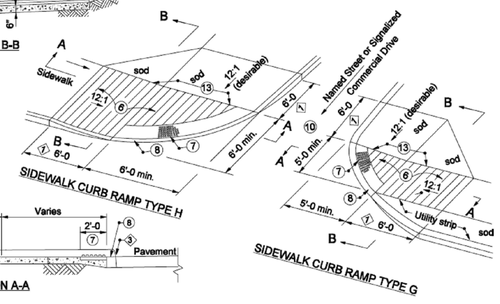
NOTES :

6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of detectable warnings surface.
8. See Standard Drawing E 604-SWCR-02 for alternate curb construction.
9. Curb optional. Shall be used when necessary based on field conditions.
10. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

INDIANA DEPARTMENT OF TRANSPORTATION
SIDEWALK CURB RAMP TYPE K
SEPTEMBER 2005
STANDARD DRAWING NO. E 604-SWCR-10



SECTION B-B



SECTION A-A

NOTES :

6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawings E 604-SWCR-02 for details of the detectable warning surface.
8. See Standard Drawing E 604-SWCR-02 for alternate curb construction.
10. Sidewalk across approach shall be sloped at 50:1 maximum transversely.
11. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
12. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.
13. Vertical face curb optional.

INDIANA DEPARTMENT OF TRANSPORTATION
SIDEWALK CURBS RAMPS TYPE G AND TYPE H
SEPTEMBER 2005
STANDARD DRAWING NO. E 604-SWCR-09

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

HOLEY MOLEY SAYS

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"IT'S THE LAW"
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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.

PROPOSED SITE PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

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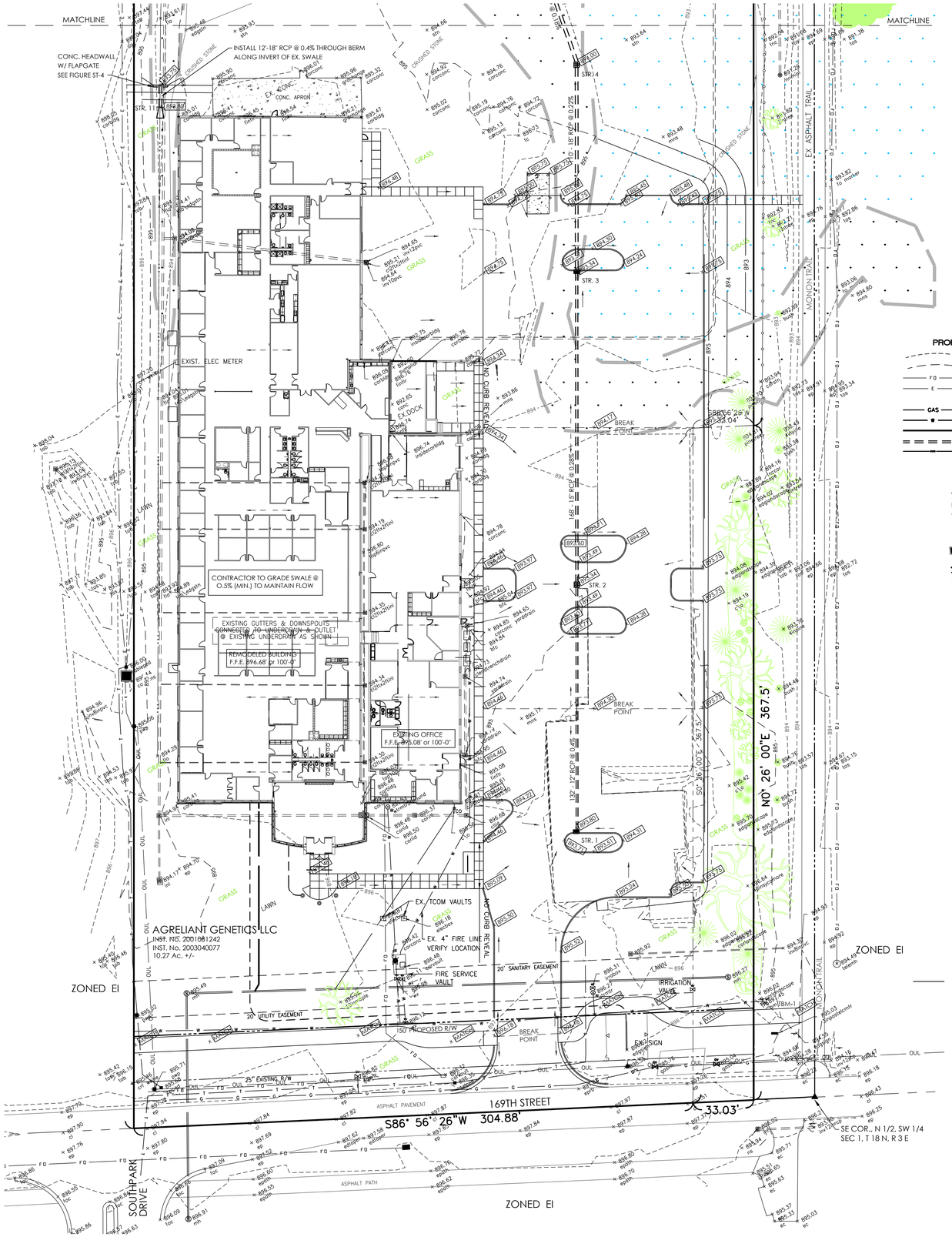

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- UTILITY POLE
- WATER VALVE
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DRAINAGE & GRADING NOTES

1. EXISTING TOPOGRAPHY TAKEN FROM KEELER–WEBB ASSOC., DATED 02/04/2015.

2. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK.

3. ALL GRADING/EARTHMOVING WORK TO BE DONE IN STRICT ACCORDANCE WITH ALL STATE AND LOCAL CODES AND REQUIREMENTS.

4. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE SOIL EROSION.

5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE ALONG 169th STREET AT EXISTING ENTRANCE.

6. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS QUICKLY AS PRACTICAL WITH TEMPORARY SEEDING PER AMOUNTS SHOWN ON SHEET C4.

7. SEE SHEET C4 FOR EROSION CONTROL NOTES AND PLAN.

8. PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURES, ALL TOPSOIL AND ORGANIC MATTER, FROZEN, WET SOFT, LOOSE, OR UNDESIRABLE SOIL SHALL BE REMOVED. TOPSOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF SIX INCHES (6") OR AS NECESSARY TO REMOVE ORGANIC MATTER IN THE AREAS TO BE OCCUPIED BY ROADS, WALKS AND DESIGNATED BUILDING AREAS.

9. TOPSOIL SHALL BE SEPARATED FROM SUITABLE FILL MATERIALS AND SHALL NOT BE USED AS FILL UNDER ANY CONSTRUCTION AREAS OR FUTURE EXPANSION AREAS.

10. ANY STORM SEWER STRUCTURES SHALL COMPLY WITH CURRENT SPECIFICATION OF THE CITY, COUNTY AND ALL AGENCIES IN RESPECT TO DESIGN AND QUALITY OF CONSTRUCTION. COMPACTED GRANULAR BACKFILL SHALL BE REQUIRED UNDER ALL PAVEMENT AREAS AND WITHIN 5 FEET OF THE EDGE OF PAVEMENT AREAS.

11. ANY PRE CAST CONCRETE AND STEEL FOR MANHOLES AND INLETS SHALL BE IN ACCORDANCE WITH ASTM C–478.

12. TRENCHES SHALL BE OPENED SUFFICIENTLY AHEAD OF PIPE LAYING TO REVEAL OBSTRUCTIONS, AND SHALL BE PROPERLY PROTECTED AND/OR BARRICADED WHEN LEFT.

13. TRENCHES SHALL BE SHEETED AND GRADED AS NECESSARY TO PROTECT WORKMEN AND ADJACENT STRUCTURES. ALL TRENCHING SHALL BE DONE IN ACCORDANCE WITH O.S.H.A. STANDARDS TO PROTECT WORKMEN.

14. THE SUBGRADE SHALL BE PROOFROLLED WITH SUITABLE EQUIPMENT AND ALL SPONGY AND OTHERWISE UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

15. ALL FILLED PLACES UNDER EXISTING STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY MODIFIED AASHTO T–180 COMPACT TEST OR 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AASHTO T–99.

16. EXTRA STRENGTH REINFORCED CONCRETE PIPE TO BE PLACED UNDER PAVED AREAS AND A MINIMUM COVER OF 24" SHALL BE MAINTAINED.

17. STORM WATER SEDIMENT TRAPS SHALL BE CLEANED WHEN THEY BECOME HALF FILLED WITH SEDIMENT AND AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED.

18. THE ABOVE PROPERTY PARTIALLY LIES WITHIN A KNOWN FLOOD PLAIN. THE SUBJECT PROPERTY LIES IN ZONE (X), SHADED 0.2%, SHADED 1% ZONE AE, AND FLOODWAY AS SCALED PER FEMA FLOOD INSURANCE RATE MAP, PANEL NO. 18057C0120G, OF HAMILTON COUNTY, INDIANA, EFFECTIVE DATE NOVEMBER 19, 2014. PER HAMILTON COUNTY F.I.S. STUDY OF ANNA KENDALL DRAIN THE 1% CHANCE ELEVATION ON THE SUBJECT TRACT BETWEEN CROSS–SECTIONS I AND J IS 893.75' AT UPSTREAM LIMITS AND 893.7' AT THE DOWNSTREAM LIMITS OF THE SUBJECT REAL ESTATE.

19. ALL EXISTING GRADES SHOWN ARE TOP OF PAVEMENT OR GRADE UNLESS OTHERWISE NOTED.

20. REMOVE ALL TREES AND STUMPS FROM AREA TO BE OCCUPIED BY ROAD AND SURFACED AREAS. REMOVAL OF TREES OUTSIDE THESE AREAS SHALL ONLY BE DONE AS NOTED ON DRAWINGS OR APPROVED BY THE OWNER.

21. ALL BRUSH, STUMPS, WOOD AND OTHER REFUSE FROM THE TREES SHALL BE BURIED ONSITE OR REMOVED TO DISPOSAL AREAS OFF OF THE SITE. DISPOSAL BY BURNING SHALL NOT BE PERMITTED UNLESS PROPER PERMITS ARE OBTAINED (WHERE APPLICABLE).THE LOCATION OF ON SITE BURY PITS SHALL BE DESIGNATED BY THE OWNER OR THE ENGINEER.

22. 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 REASONABLY FREE FROM SUBSOIL, DEBRIS, WEEDS, GRASS, STONES, ECT.

23. AFTER COMPLETION OF SITE GRADING AND SUBSURFACE UTILITY INSTALLATION, TOP SOIL SHALL BE REPLACED IN AREAS DESIGNATED ON THE EROSION CONTROL PLAN FOR SEEDING AND / OR SODDING. ANY REMAINING TOP SOIL SHALL BE USED FOR FINISHED GRADING AROUND STRUCTURES AND LANDSCAPING AREAS.

24. 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.

25. 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.

26. 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.

27. 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 DETERMINING EARTHWORK QUANTITIES SHALL BE ACCOMPLISHED 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 OF THE VARIOUS SOIL TYPES, ALSO THE ALLOWABLE VARIATION IN FINISH GRADE AND COMPACTION PERMITTED THE CONTRACTOR, AND THAT ALL OF 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 MATERIALS OCCURS, THE CONTRACTOR SHALL CONTACT THE ENGINEER TO DETERMINE IF ADJUSTMENTS CAN BE MADE TO CORRECT THE IMBALANCE OF EARTH.

STRUCTURE DATA TABLE

STR. No.	RIM ELEV.	INV. IN	INV. OUT	STR. SIZE	STR. TYPE	CASTING	PIPE OUT	DIRECTION	DETAIL
1	893.80		891.05	36"x24"	CURB INLET	3287-10V	12"	NORTH	
2	893.34	890.52	890.44	36"x24"	INLET	FLAT GRATE	15"	NORTH	
3	893.34	889.97	889.91	36"x24"	CURB INLET	3287-10V	18"	NORTH	
4	894.00	889.67	889.59	36"x24"	INLET	FLAT GRATE	21"	NORTH	
5	893.70	889.42	889.34	36"x24"	INLET	FLAT GRATE	24"	NORTHWEST	
6	893.70	889.06	888.98	48" DIA.	MH	4342	27"	NORTH	
7	895.10	888.78	888.70	48" DIA.	MH	4342	30"	NORTHWEST	
8			888.60		HEADWALL	FLAPGATE	30"		FIGURE ST-4
9			888.10	60"x36"	OUTLET	ST-34	12"	NORTHEAST	FIGURE ST-34
10			887.90	PIPE	END SECT.		18"	NORTH	
11		893.80	893.75	PIPE	HEADWALL	FLAPGATE	18"	NORTH	FIGURE ST-4

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CONTRACTOR TO ADHERE TO WESTFIELD DRAINAGE & EROSION CONTROL STANDARDS AND DETAIL SHEETS FOR THE FOLLOWING:

STANDARD 48" STORM MANHOLE DETAIL, FIGURE ST-1
STRAIGHT HEADWALL AT OUTLET WITH FLAP GATE, FIGURE ST-4
CHAIR BACK CURB INLET CASTING, FIGURE ST-8
BEEHIVE INLET CASTING DETAIL, FIGURE ST-10
INLET STRUCTURE TYPE 1A, FIGURE ST-11
STORM STRUCTURE SIZING TABLE, FIGURE ST-15
POND OUTLET STRUCTURE DETAIL, FIGURE ST-28
DEBRIS GUARD DETAIL, FIGURE ST-29
TYPICAL SWALE DETAIL, FIGURE ST-43

DRAINAGE/GRADING PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

NORTH

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

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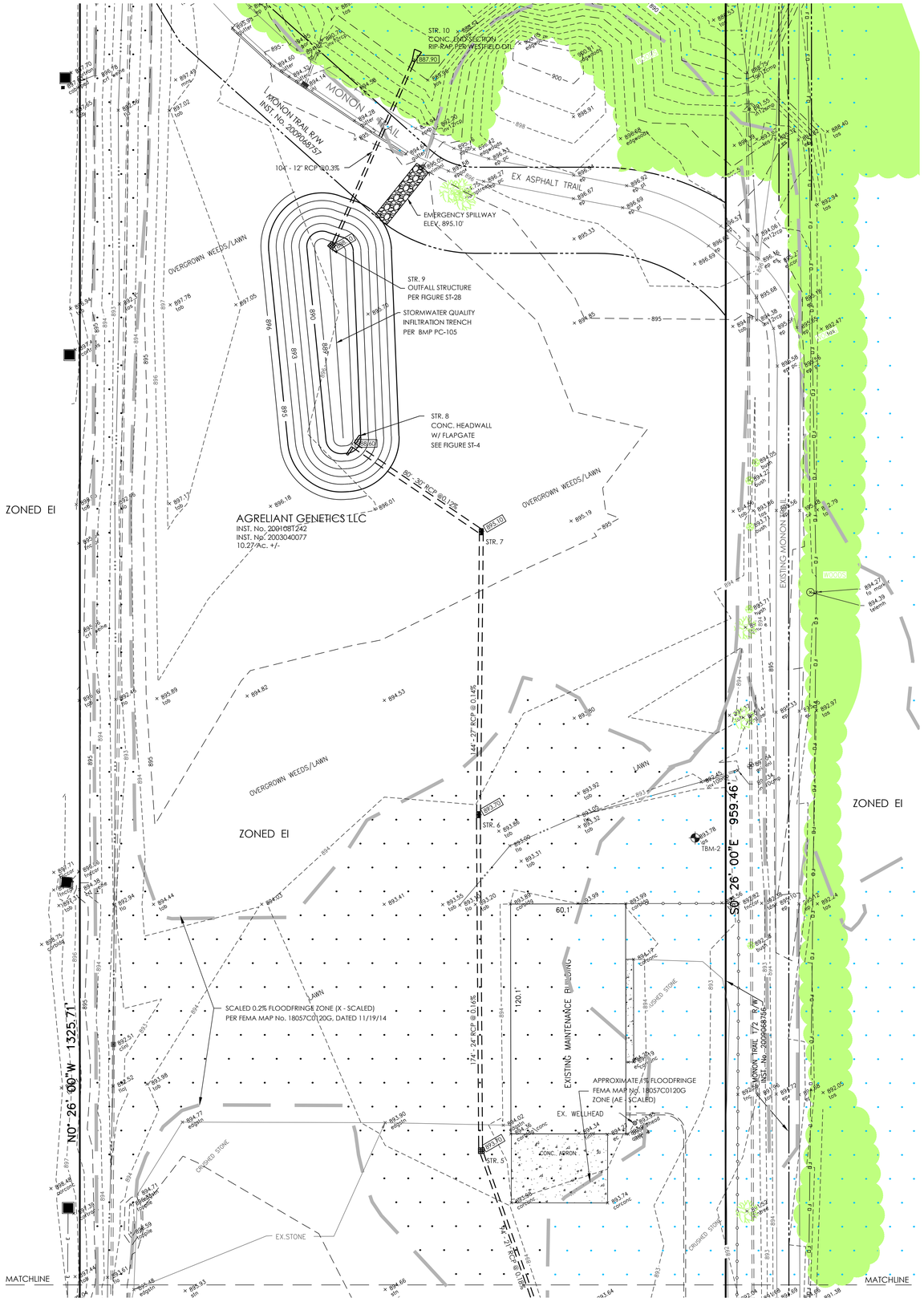

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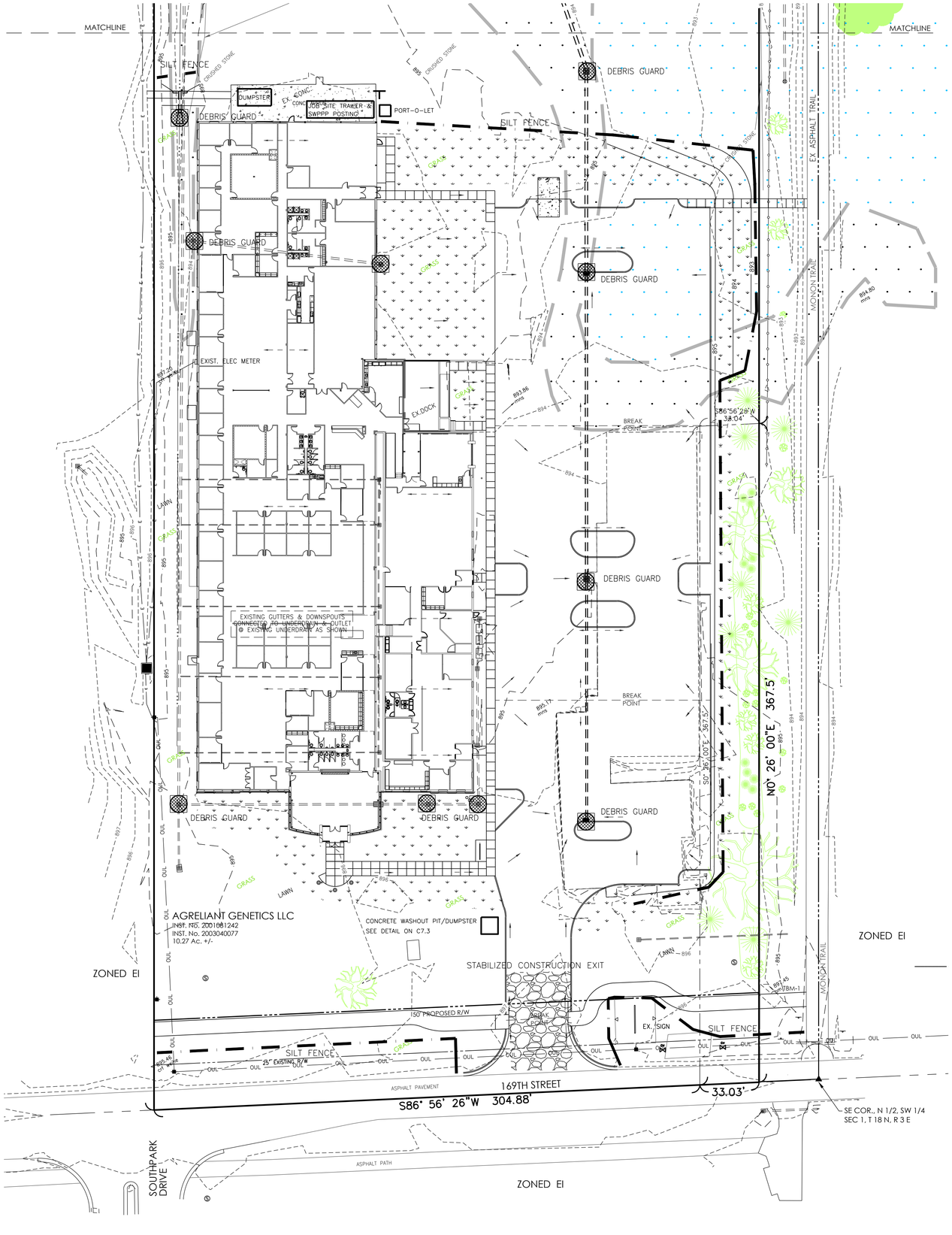

EROSION CONTROL SEQUENCE SCHEDULE

1. Preconstruction Activity:
a. Work around and locate all existing above and below grade utility lines: Contact Indiana Underground Plant Protection Service ("Holey Maley") 1-800-382-5544.
b. Contact plan reviewing/inspection agency(s).
c. Install silt fence around perimeter of area(s) to be protected/preserved.
d. Protect areas suitable for use as vegetative filter strips.

2. Construction Site Access:
a. Install stabilized aggregate construction exit/access drive to prevent or minimize tracking of sediment onto public or private roadways.
b. Provide stabilized of construction routes, construction vehicle staging and maintenance areas, designated employee parking areas, etc., to prevent or minimize tracking of sediment onto public or private roadways.

3. Perimeter Controls:
a. Divert stormwater runoff from up-slope properties away from the project site.
b. Install sediment traps/basins at locations where stormwater may discharge from project site.
c. Divert storm water runoff away from the active construction zone.

4. Initial Land Clearing and Grading Activities:
a. Clearing and grubbing of existing vegetation
b. Strip and stockpile topsoil
c. Install silt fence around perimeter of topsoil stockpile as soon as earthmoving activities define the area of disturbance.
d. Stabilize topsoil stockpiles on the down slope of active construction.

5. Secondary Land Grading Activities:
a. Construct primary sediment traps and basins down slope of active construction zones.
b. Install and stabilize outlets for stormwater drainage system with riprap outlet protection and turf reinforcement mats for basin outlets, storm drain outlets, open channel outlets and culvert pipe outlets.
c. Install storm sewer system along with sediment barriers and sediment traps/basins.
d. Protect of storm drain inlets with drop inlet protection and/or curb inlet protection.
e. Stabilize areas disturbed for storm sewer installation with temporary seeding and mulching.
f. Construct drainage swales and stabilize with permanent seeding and mulching for areas where construction of drainage swales has been completed.
g. Excavate subsoil to grades shown on plans.
h. Stabilize soil stockpiles with sediment barriers/fillers, temporary seeding, and mulching around perimeter of soil stockpiles.

6. Temporary Surface Stabilization:
a. Stabilize rough graded areas with temporary seeding and mulching on all rough graded areas that will be inactive for a period of seven days or more.
b. Stabilization of areas at final grade with permanent seeding and mulching for detention/retention basins, drainage swales.

7. Install Pavement Infrastructure:
a. Install Silt Fence prior to the installation of curbs
b. Cut in and construct parking lot subgrade/base.
c. Install storm sewers and structures, provide protective measures.
d. Install utilities and provide temporary seeding and mulching.

8. Building Construction:
a. Protect existing storm drain inlets
b. Maintain and stabilize site access with stabilized ingress/egress entrance at all points where vehicles enter and exit the site.
c. Maintain perimeter protection
d. Provide maintenance of drainage swales/channels
e. Perform excavation for foundation and/or footings
f. Construct buildings/structures
g. Provide downspout extenders once downspouts and gutters are installed.

9. Final Shaping/Landscaping/Stabilization:
a. Provide application of topsoil and soil amendments for all unvegetated areas that are at final grade.
b. Plant trees and shrubs
c. Provide final site stabilization for all remaining unvegetated areas.

10. Maintenance of Erosion and Sediment Control Measures:
a. Remove all temporary stormwater management measures and stabilize all remaining unvegetated areas disturbed when removing temporary stormwater management measures.

SEEDBED PREPARATION
APPLY LIME TO RAISE THE pH TO THE LEVEL NEEDED FOR SPECIES BEING SEEDED. APPLY 23 POUNDS OF 12-12-12 ANALYSIS FERTILIZER (OR EQUIVALENT PER 1000 SQ. FT. (APPROXIMATELY 1000 POUNDS PER ACRE) OR FERTILIZE ACCORDING TO TEST.

APPLICATION OF 150 LBS. OF AMMONIUM NITRATE ON AREAS LOW IN ORGANIC MATTER AND FERTILITY WILL GREATLY ENHANCE VEGETATIVE GROWTH.

WORK THE FERTILIZER AND LIME INTO THE SOIL TO A DEPTH OF 2-3 INCHES WITH A HARROW, DISK OR RAKE OPERATED ACROSS THE SLOPE AS MUCH AS POSSIBLE.

SEEDING
SELECT A SEED MIXTURE BASED ON PROJECTED USE OF THE AREA WHILE CONSIDERING BEST SEEDING DATES. SEE TEMPORARY SEEDING. IF TOLERANCES ARE A PROBLEM, SUCH AS SALT TOLERANCE OF SEEDINGS ADJACENT TO STREETS AND HIGHWAYS.

PERMANENT SEED MIXTURES

SPECIES	lbs. / ACRE	lbs. / 1,000 s.f.	SUITABLE PH	DRY	WELL DRAINED	WET
LEVEL / SLOPING OPEN AREAS						
TALL FESCUE	35	0.8	5.5-8.3	2	1	2
TALL FESCUE (RED CLOVER)**	25 5	0.6 0.12	5.5-8.3		1	
KENTUCKY BLUEGRASS CREEPING RED FESCUE	15 15	0.4 0.4	5.5-7.5	2	1	
STEEP BANKS AND CUTS						
TALL FESCUE KENTUCKY BLUEGRASS	15 25	0.4 0.6	5.5-7.5	2	1	2
TALL FESCUE EMERALD CROWNVETCH**	35 10	0.8 0.25	5.5-8.3	2	1	
LAWNS / HIGH MAINTAINANCE AREAS						
KENTUCKY BLUEGRASS CREPING RED FESCUE	40 40	0.9 0.9	5.5-7.5	2	1	
PERENNIAL RYEGRASS (TURF TYPE)	170	4.0	5.5-7.5		1	
TALL FESCUE	170	4.0	5.5-8.3	2	1	2

1 = PREFERRED 2 = WILL TOLERATE ** INOCULATE WITH SPECIFIC INOCULANT

TEMPORARY SEEDING

KIND OF SEED	PER 1000 sq. ft.	PER ACRE	REMARKS
WHEAT OR RYE	3.5 lbs.	2 bu.	COVER SEED 1" - 1 1/2" DEEP
SPRING OATS	2.3 lbs.	3 bu.	COVER SEED 1" DEEP
ANNUAL RYEGRASS	1 lbs.	40 lbs.	COVER SEED 1/4" DEEP*

* NOT NECESSARY WHERE MULCH IS APPLIED

SEED MIXTURES (1 / C4)
NOT TO SCALE

EROSION CONTROL BLANKET NOTES

1. All permanent slopes shall be seeded with a mixture of mulch (3000 #) 1000 lbs. 12-12-12 fertilizer per acre, and red fescue at the rate of 40 lbs. per acre, and 40 lbs. blue grass per acre from March 1 to May 15 and August 10 to October 15.

2. All sediment control measures shall be installed prior to cleaning and grubbing operations and shall be maintained until permanent ground cover is established.

3. All sediment control measures shall be performed in strict accordance with the plans as approved by Marion County Soil & Water and the City of Indianapolis.

4. The Contractor shall provide adequate erosion protection measures during construction such as, but not limited to: Siltation basins, Silt traps, Straw bale dams, Soil Cement, Mulch and Seeding, Soil Stabilization Fabric, and Jute Netting.

5. Erosion control blanket by "North American Green" (or equal). Anchor all erosion control blankets as required per manufacturer North American Green 'S 150 BN' 100% biodegradable (48" Long) Staples shall be 11 gauge U-shaped, 6" long, and minimum 1" crown. Drive staples vertically into ground and use (4) staples at ends of roll. For slope installation, staple along length of roll at 6 foot intervals. For swale liner, staple along length of roll at 4 foot intervals. Another row of staples shall be placed in the center of the blanket alternately spaced from staples at each side of row.

6. Any grades established between May 15 to August 10 shall provide temporary seeding consisting of 40 lbs. per acre of annual rye grass.

7. For any seeding that takes place between October 15 to March 1, either rye or wheat may be substituted and spread at 3 bushels per acre. If grains are used they shall be cut at the time of permanent seeding. Cover seed with mulch 1 - 1-1/2" deep.

8. If temporary seeding is established prior to permanent seeding, the mulch may be eliminated except for exposed areas.

TEMPORARY SEEDING AND STABILIZATION DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WHEAT / RYE												
OATS												
ANNUAL RYE GRASS												
PERMANENT SEEDING												
NON-IRRIGATED*												
IRRIGATED												
DORMANT**												

IRRIGATION NEEDED DURING JUNE AND JULY. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS, USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED

** INCREASE SEEDING APPLICATION BY 50 % DURING DORMANT PERIODS.

NOTE: MULCHING REQUIRED WHEN ACTUAL CONDITIONS HAMPER THE ESTABLISHMENT OF VEGATATIVE GROUND COVER.

SEEDING SCHEDULE (2 / C4)
NOT TO SCALE

PROPOSED LEGEND

STONE BAG DAM
SWALE
SILT FENCE
PERMANENT SEEDING
STABILIZED CONSTRUCTION EXIT SEE DETAIL ON C6
EROSION CONTOL BLANKET
DEBRIS GUARD
S.W.P.P.P. POSTING

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

TEMPORARY INLET PROTECTION, FIGURE EC-1
EROSION CONTROL MAT - SLOPE DETAIL, FIGURE EC-2
EROSION CONTROL MAT - STAPLE GUIDE, FIGURE EC-3
SILT FENCE DETAIL, FIGURE EC-4
CONCRETE WASHOUT DETAIL, FIGURE EC-5
DEWATERING DETAIL & SIZE CHART, FIGURE EC-11

THIS PLAN IS FOR CONCEPTUAL EROSION CONTROL PURPOSES ONLY. DO NOT SCALE, SEE SHT's C1 / C3

EROSION CONTROL PLAN

GRAPHIC SCALE
0 30 45 60 90 150
(IN FEET)
1 inch = 30 ft.

NORTH

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

ISSUE	DATE
PRE-FILING CONFERENCE	2-09-2014
WESTFIELD - DP SUBMITTAL	2-24-2014
PLAN COMMISSION APPROVAL	4-13-2014

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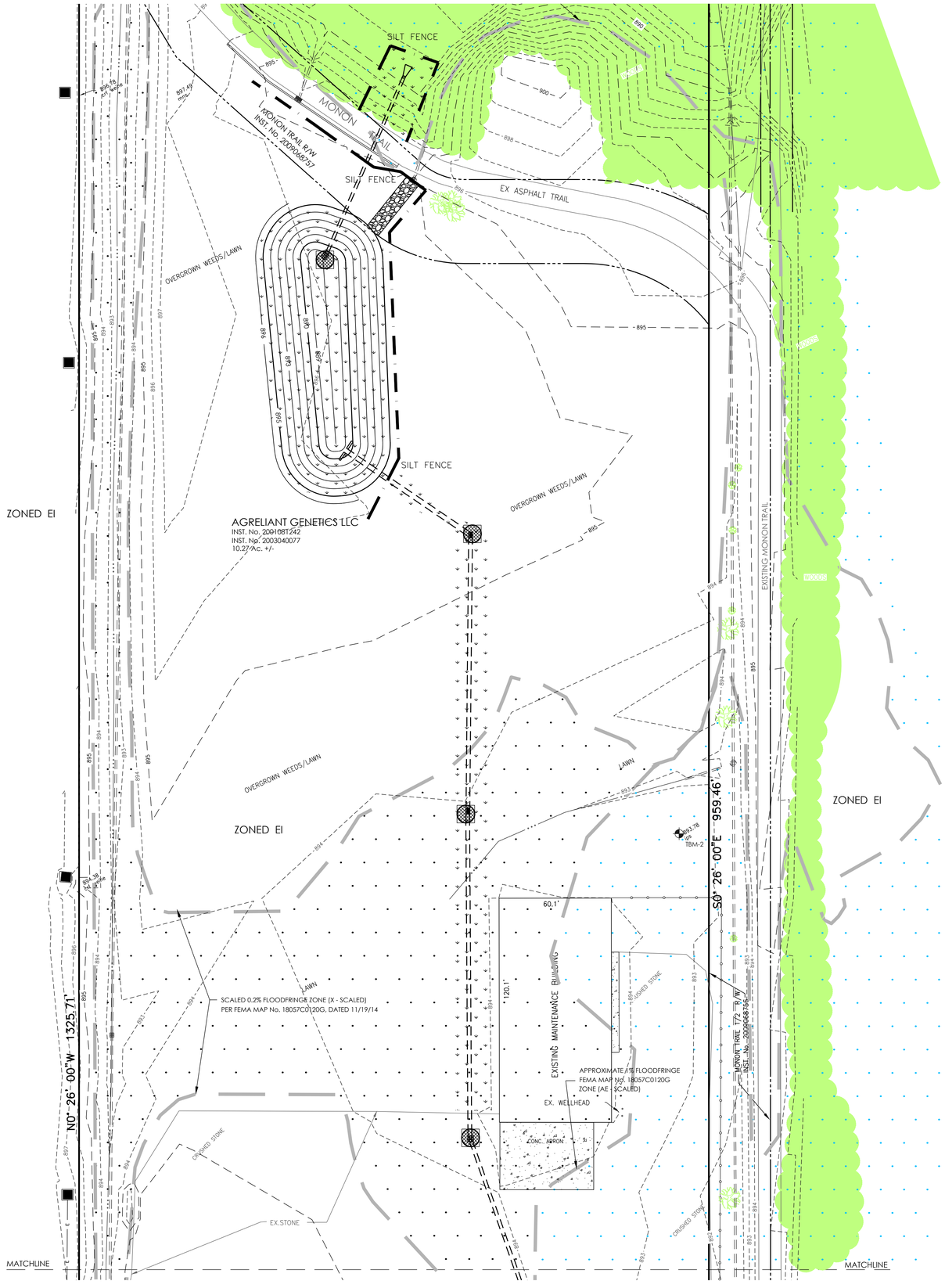
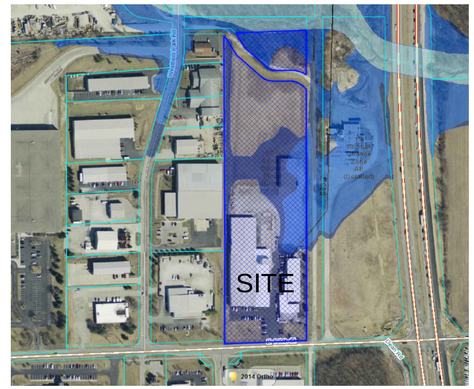
DRAWN BY: ALD
CHECKED BY: ALD
PROJECT No. 1410-059
SHEET No. C4.1



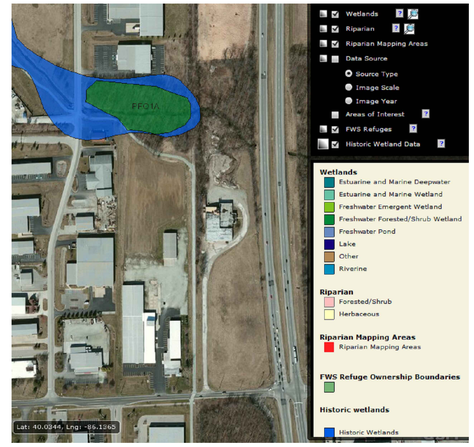


2014 WESTFIELD GIS AERIAL
N.T.S.

THIS PLAN IS FOR CONCEPTUAL EROSION CONTROL PURPOSES ONLY. DO NOT SCALE, SEE SHT's C2* / C3*

PROPOSED LEGEND

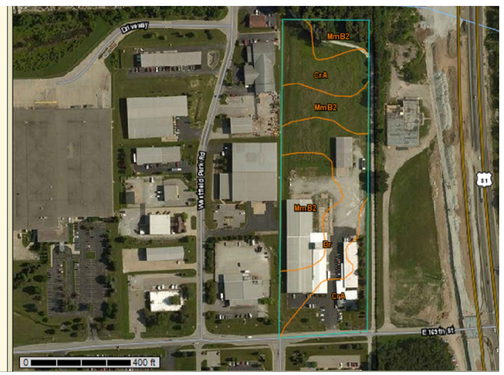
- STONE BAG DAM
- SWALE
- SILT FENCE
- PERMANENT SEEDING
- STABILIZED CONSTRUCTION EXIT SEE DETAIL ON C6
- EROSION CONTOL BLANKET
- DROP INLET, WESTFIELD DTL. EC-6



2014 WESTFIELD GIS AERIAL
N.T.S.

Hamilton County, Indiana (IN057)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Br	Brookston silty clay loam, 0 to 2 percent slopes	3.0	29.6%
CrA	Crosby silt loam, fine-loamy subsoil, 0 to 2 percent slopes	3.3	32.1%
MmB2	Miami silt loam, 2 to 6 percent slopes, eroded	3.9	38.3%
Totals for Area of Interest		**10.2**	**100.0%**



SOILS MAP
N.T.S.

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

TEMPORARY INLET PROTECTION, FIGURE EC-1
EROSION CONTROL MAT - SLOPE DETAIL, FIGURE EC-2
EROSION CONTROL MAT - STAPLE GUIDE, FIGURE EC-3
SILT FENCE DETAIL, FIGURE EC-4
CONCRETE WASHOUT DETAIL, FIGURE EC-5
DEWATERING DETAIL & SIZE CHART, FIGURE EC-11

EROSION CONTROL PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

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DRAWN BY: ALD
CHECKED BY: ALD
PROJECT No. 1410-059
SHEET No. C4.2

STORMWATER POLLUTION PREVENTION PLAN NOTES

A1 Plan Index Provided on the Cover sheet
A2 Situation plan denoting lot numbers, boundaries, and streets is provided on the Cover sheet.
A3 Project Type: This project consists of a remodel of a 49,504 sq.ft. office building.
A4 Vicinity Map: Denoted on Cover Sheet
A5 Legal Description of Project Site: See Cover Sheet.
A6 Location of all lots and proposed site improvements: See Sheets C1.1 to L1.
A7 14 Digit Hydrologic Unit Code: 05120201090080
A8 State or Federal water quality permits: IDEM Rule 5 NOI
A9 For specific points where stormwater discharge will leave the site: Stormwater leaves the site in one location. Near the Northwest property corner via on-site storm sewer RCP to outlet into a proposed detention pond and near the Northeast property corner via existing storm sewer.
A10 For location of all wetlands, lakes and water courses on and adjacent to site: By graphic plotting the above described real estate does have a delineated Wetland (PF01A - Freshwater Forested Wetland) per U.S. Fish and Wildlife National Wetland Inventory website. The wetlands lie in the forested area North of the Monon Trail along the Anna Kendall Legal Drain. There will be no earthmoving/land disturbance activities in this area.
A11 Receiving Waters: Anna Kendall Legal Drain
A12 Identification of potential discharges to groundwater: none found on the site
A13 100 Year Floodplains, Floodways and Flood Fringes: The subject property does partially lie within a known flood plain (Zone AE) per FEMA Flood Insurance Rate Map No. 18057C0120G, effective date November 19, 2014.
A14 Pre-Construction and Post Construction Peak Discharge:
10 year Pre-Construction Peak Discharge = X CFS
10 year Post Construction Peak Discharge = X CFS
100 year Post Construction Peak Discharge = X CFS
A15 Adjacent Land Use (see Stormwater Pollution Prevention Plan – PreConstruction Plan Sheet C1 for more information):
North: Monon Trail and Anna Kendall legal drain and forested area
South: 169th Street
East: Monon Trail
West: Commerical/Industrial Building sites
A16 Locations and approximate boundaries of all disturbed areas: See Sheets C1 – C4 for locations:
A17 Identification of existing vegetative cover: See Topographic Survey C1.
A18 Soils Map including descriptions and limitations: See Sheet C4 for soils map, description and limitations.
A19 Locations, size and dimensions of proposed stormwater systems: See Site Development Plan Sheet C3 for proposed storm sewer system.
A20 Locations, size and dimensions of any proposed off-site construction activities associated with this project: (None)
A21 Locations of Soil Stockpiles: See the proposed landscape berm in the front yard setback and the remaining topsoil will be spread around the site to promote the growth of grass in all landscaped areas.
A22 Existing site topography: See Sheet C1 for existing site topography.
A23 Proposed final topography: See Site Development Plan Sheet C3 for proposed site grading and drainage patterns.
B1 Description of potential pollutants sources associated with the construction activities: Silt and sediment from exposed soils, leaves, mulch, vehicular sources such as leaking fuel or oil, brake fluid, brake dust, trash, debris, biological agents found in trash, fertilizers, herbicides, pesticides, acid rain, lime dust, and concrete washout.
B2 Sequencing of stormwater quality implementation relative to land disturbance activities:

PRECONSTRUCTION ACTIVITIES

1. Call the Indiana Underground Plant Protection Systems, Inc. ("Holey Moley") at 1-800-382-5544 to check the location of any existing utilities. They should be notified two working days before construction takes place.
2. An orange construction fence shall be constructed along the perimeter of any tree preservation areas prior to any earth moving.
3. A silt fence shall be installed at the edges of the project site where there is potential for any stormwater runoff. Potential areas are identified based on existing topography, protect important trees and associated root zones. Evaluate existing vegetation suitable for use as filter strips.
4. Maintain a 10' minimum grass filter strip along the Northern, Eastern, Southern and Western boundaries.
5. A construction entrance shall be placed per the plan location.
6. Establish construction staging area for equipment and vehicles as far from detention ponds and swales as possible.
7. Establish onsite location for owner/operator/contractor placement of approved plans and Rule 5 NOI and Rule 5 inspection documentation.

PREVENT SILTATION OF GUTTERS, STORM SEWERS, AND DETENTION POND:

1. Contractor to evaluate location of soil stockpile area and prep with silt fence (see C4).

CONSTRUCTION ACTIVITIES:

1. Once erosion and sediment control measures are in place, begin land clearing followed immediately by rough grading. Do not leave large areas unprotected for more than 15 days. Rule 5 requires that all disturbed areas that potentially will be idle for 15 days or more will be stabilized (seeded, mulched, etc.) immediately.
2. After completion of mass grading, final grade, and seed pond banks, landscape berms, common areas and swales immediately after grading is completed.
3. Upon completion of mass grading, install sanitary and storm sewers. As storm sewers are constructed, install inlet protection measures. Install riprap upon completion of end section installation.
4. Install rock check dams as indicated per plans and details.
5. Once pavement is in place, install inlet sediment barriers.
6. Once inlet protection is in place, final grade all areas. Upon completion of all grading, verify depth of pond per plan requirement, dredge as needed.

B3 Stable construction entrance location(s) and specifications. See Stormwater Pollution Prevention Plan Sheet C4 for location and Sheet C5 for construction entrance details and specifications.
B4 Sediment control measures for sheet flow areas: See Erosion Control Plan Sheet C4 for locations of sediment control measures and Sheet C5 & C6 construction details and specifications.
B5 Sediment control measures for concentrated flow areas: See Erosion Control Plan Sheet C4 for locations of sediment control measures and Sheet C5 & C6 construction details and specifications.
B6 Storm sewer inlet protection measures, locations, and specifications: See Erosion Control Plan Sheet C4 for locations of inlet protection measures and Sheet C5 & C6 construction details and specificationts.
B7 Runoff control measures: See Erosion Control Plan Sheet C4 for locations of runoff control measures and Sheet C5 & C6 construction details and specifications.
B8 Stormwater outlet protection specifications: See Erosion Control Plan Sheet C4 for locations of stormwater outlet control measures and Sheet C5 & C6 construction details and specifications.
B9 Grade stabilization structure locations and specifications: See Erosion Control Plan Sheet C4 for locations of grade stabilization control measures and Sheet C5 & C6 construction details and specifications.
B10 Location, dimensions, specifications and construction details of each stormwater quality measure: See Erosion Control Plan Sheet C4 for locations of various stormwater quality measures and Sheet C5 & C6 construction details and specifications.
B11 Temporary surface stabilization methods appropriate for each season: See Erosion Control Plan Sheet C4 for locations of temporary surface stabilization measures and Sheet C5 & C6 construction details and specifications.
B12 Permanent surface stabilization specifications: See Erosion Control Plan Sheet C4 for locations of permanent surface stabilization measures and Sheet C5 & C6 construction details and specifications.

B13 Material Handling and spill prevention plan:

Purpose
The intention of this Spill Prevention, Control and Countermeasures (SPCC) is to establish the procedures and equipment required to prevent the discharge of oil and hazardous substances in quantities that violate applicable water quality standards, cause a sheen upon or discoloration of the surface of navigable waters or adjoining shorelines, or cause sludge or emulsion to be deposited beneath the surface of the water or adjoining shorelines. The Plan also establishes the activities required to mitigate such discharges (i.e. countermeasures) should they occur.
Definitions:
Pollutant: means pollutant of any kind or in any form, including but not limited to sediment, paint, cleaning agents, concrete washout, pesticides, nutrients, trash, hydraulic fluids, fuel, oil, petroleum, fuel oil, sludge, oil refuse, and oil mixed with wastes other than dredged oil.
Discharge:
includes but is not limited to, any spilling, leaking, pumping, pouring, emitting, emptying, or dumping.
Navigable Waters: Means all waters of the United States that are a navigable stream, lake, or sea (Note: This definition is usually interpreted to mean any wastewater (even normally dry wash or storm sewer) that eventually drains into a navigable stream).
Plan Review and Amendments:
This plan shall be reviewed and/or amended, if necessary, whenever there is a change in the design of the site, construction, operation, or maintenance which materially affects the site's potential for the discharge of a regulated material.
Prediction of Potential Spills:
1. Nearest Navigable Water: (White River)
2. Drainage System: All storm drainage leaves the site by closed storm systems through the detention pond on the Northwest corner of the site.
3. Possible Spill Sources (during and post construction): Vehicular sources such as leaking fuel or oil, brake fluid, grease, antifreeze; construction trash and debris, biological agents found in trash and debris, fertilizers, household items including but not limited to cleaning agents, chemicals, paint, herbicides and pesticides.
4. Groundwater Contamination:
The facility maintains NO above ground or underground storage tanks at this site. Therefore, it is felt that there is little or no possibility of post construction groundwater contamination. The facility does have Citizens Westfield sanitary sewer and water service.

Alert Procedures for Spills:
1. Any personnel observing a spill will immediately instigate the following procedures:
a. Dialing "0" from any telephone
b. Notify the appropriate emergency personnel.
2. The Emergency Coordinator will then take the following actions:
a. Barricade the areas allowing no vehicles to enter or leave the spill zone.
b. Notify the Indiana Department of Environmental Management, Office of Emergency Response by calling the appropriate telephone number:
Office – (317)-233-7745
Toll Free – (800)-233-7745 Also the National Response Center at (800)-424-8802
and provide the following information:
– Time of observation of the spill
– Location of the spill
– Identity of material spilled
– Probable source of the spill
– Probable time of the spill
– Volume of the spill and duration
– Present and anticipated movement of the spill
– Weather conditions
– Personnel at the scene
– Action initiated by personnel
c. Notify the Westfield Fire Department: 9-1-1
d. Notify the Westfield Police Department: 9-1-1
e. Notify waste recovery contractor, maintenance personnel or other contractual personnel as necessary for clean-up.
f. Coordinate and monitor clean-up until the situation has been stabilized and all spills have been eliminated.
g. Cooperate with the IDEM-OER on procedures and reports involved with the event.
Cleanup Parameters:
1. The Developer/owners shall be continuously kept informed, maintain lists of qualified contractors and available Vac-trucks, tank pumpers and other equipment readily accessible for clean-up operations. In addition, a continually updated list of available absorbent materials and clean-up supplies should be kept on site.
2. All maintenance personnel shall be made aware of techniques for prevention of spills. They shall be informed of the requirements and procedures outlined in this plan. They shall be kept abreast of current developments or new information on the prevention of spills and/or necessary alterations to this plan.
3. When spills occur which could endanger human life and this becomes primary concern, the discharge of the life saving protection function will be carried out by the local police and fire departments.
4. Absorbent materials, which are used in cleaning up spilled materials, will be disposed of in a manner subject to the approval of the Indiana Department of Environmental Management.
5. Flushing of spilled material with water will not be permitted unless so authorized by the Indiana Department of Environmental Management or the local emergency response agency.

B14 Monitoring and maintenance guidelines for pollution prevention measures:
Straw Bale Dam Maintenance Requirements
1. Inspect straw bale dams after each storm and promptly remove any sediment deposits to insure adequate storage volume for the next rain, taking care not to undermine the entrenched bales.
2. Inspect periodically for deterioration or damage from construction activities and repair immediately.
3. After the contributing drainage area has been stabilized, remove all straw bales and sediment deposits, bring the disturbed area to grade and stabilize it.
Silt Fence Maintenance Requirements
1. Inspection of the silt fence periodically and after each storm event.
2. If fence fabric tears, starts to decompose, or in any way becomes ineffective, replace the affected portion immediately.
3. Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.
4. Take care to avoid undermining the fence during cleanout.
5. After the contributing drainage area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade and stabilize it.
Temporary Sediment Trap Maintenance Requirements
1. Inspect temporary sediment traps after each storm event and immediately repair any erosion and piping holes.
2. Remove sediment when it has accumulated to one-half the design depth.
3. Replace spillway gravel facing when clogged.
4. Inspect vegetation and re-seed if necessary.
5. Check the spillway depth periodically to insure a minimum of 1.5 ft. depth from the lowest point of the settled embankment to highest point of the spillway crest and fill any low areas to maintain desired elevation.
6. Promptly replace any displaced rip-rap, being careful that no stones in the spillway are above design grade.
7. After all disturbed areas have been stabilized, remove the structure and sediment, grade the site to blend with adjoining areas and stabilize it.
Sandbag Curb Inlet Barrier Maintenance Requirements
1. Inspect frequently for damage by vehicular traffic and repair if necessary.
2. Inspect after each storm event.
3. Remove sediment, without flushing, when it reaches half the height of the barrier.
4. Deposit removed sediment where it will not enter storm sewer drains.
Block and Gravel Curb Inlet Protection Maintenance Requirements
1. After each storm event remove the sediment and replace the gravel, replace the geotextile fabric if used.
2. Periodically remove sediment and tracked-on soil from the street, without flushing, to reduce the sediment load on the curb inlet protection.
3. Inspect periodically for damage and repair. Keep grates free of debris.
4. After the contributing drainage area has been stabilized, remove the gravel, wire mesh, geotextile fabric and sediment deposits and dispose of them properly.
Erosion Control Blanket (Surface Applied) Maintenance Requirements
1. During vegetative establishment, inspect after each storm event for any erosion below the blanket.
2. If any area(s) shows erosion, pull back that portion of the blanket covering it, re-seed the area and relay and staple the blanket.
3. After vegetative establishment check the treated area periodically.
Temporary Gravel Construction Entrance Maintenance Requirements
1. Inspect entrance pad and sediment disposal area weekly and after storm events or heavy use.
2. Reshape as needed for drainage and runoff control.
3. Topdress with clean stone as needed.
4. Immediately remove mud and sediment tracked or washed onto streets by brushing or sweeping. Flushing should only be used if the water is conveyed into a sediment trap or basin.
5. Repair any broken road pavement immediately.

B15 Erosion & sediment control specifications for individual building lots: See Sheet C4, C6 & C7 for Construction details and specifications for erosion and sediment control on individual building lots not included in this phase of the project.

C1 Description of pollutants and their sources associated with the proposed land use: Silt and sediment from exposed soils, leaves, mulch, vehicular sources such as leaking fuel or oil, brake fluid, brake dust, grease, antifreeze, metals, rubber fragments, road grit, salts and sands, construction trash and debris, fertilizers, household items including but not limited to cleaning agents, chemicals, paint, miscellaneous home improvement materials, toys and clothing and animal waste, elevated storm runoff temperatures, acid rain pesticides and pathogens.

C2 Sequence describing stormwater quality measure implementation:
1. Inspect and maintain all erosion control measures as detailed in the Stormwater Pollution Prevention Measures Maintenance Requirements beginning immediately after installation and continuing until vegetation has been sufficiently established and all construction activity is complete.
2. Remove all individual inlet protection and straw bale dams, silt fences etc. only after seeding and sufficient vegetation growth has been established in each area to a point where sediment/pollutants will not enter the drainage or storm sewer system.
3. Inspection and maintenance of all areas or right-of-way and infrastructure improvements is the responsibility of the owner/developer or his designee until improvements are accepted for maintenance by owners or local agencies.
4. Inspection and maintenance of individual lots is the responsibility of the builder or his designee until the owner buys and thereby accepts responsibility for the individual tract of land.

C3 Description of proposed post construction stormwater quality measures: Site and facility design for stormwater quality protection on this site employs a multi-level strategy consisting of:
1. Reducing or eliminating post-project runoff.
2. Controlling sources of pollutants.
3. And if needed, treating contaminated stormwater runoff before discharging it into the storm sewer system or receiving waters.
Typical stormwater quality measures for reducing, eliminating or controlling pollutants (source controls) include:
a. This sites stormwater is discharged to an on site detention pond with BMP's on the West side of the property.
b. All direct runoff from impervious areas are conveyed to closed storm sewers prior to leaving the site..
c. See sheets C4-6 and L1 for permenent seeding, temporary seeding, and landscaping plantings in all vegetated areas not occupied by buildings, parking or other similar improvements to the site.
d. See sheets C4 and L1 for all required mulching of permanent seeding, temporary seeding, and landscaped areas on the site.

C4 Location, dimensions, specifications and construction details of stormwater quality measures: See Erosion Control Plan Sheet C4 for locations of permanent stormwater quality measures and Sheet C5 & C6 construction details and specifications.

C5 Description of maintenance guidelines for proposed water quality measures: See Owners BMP Operations and Maintenance Manual.

ADDITIONAL STORMWATER POLLUTION PREVENTION MEASURES:

Vehicle & Equipment Maintenance

Description and Purpose

Prevent or reduce the contamination of stormwater resulting from vehicle and equipment maintenance by running a "dry and clean site". The best option would be to perform maintenance activities at an offsite facility. If this option is not available then work should be performed in designated areas only, while providing cover for materials stored outside, checking for leaks and spills, and containing and cleaning up spills immediately.

Suitable Applications

These procedures are suitable on all construction projects where an onsite yard area is necessary for storage and maintenance of heavy equipment and vehicles.

Limitations

Onsite vehicle and equipment maintenance should only be used where it is impractical to send vehicles and equipment offsite for maintenance and repair. Sending vehicles/equipment offsite should be done in conjunction with a Stabilized Construction Entrance/Exit. Outdoor vehicle or equipment maintenance is a potentially significant source of stormwater pollution. Activities that can contaminate stormwater include engine repair and service, changing or replacement of fluids, and outdoor equipment storage and parking (fluid leaks).

Implementation

If maintenance must occur onsite, use designated areas, located away from drainage courses. Dedicated maintenance areas should be protected from stormwater runon and runoff, and should be located at least 50 feet from downstream drainage facilities and watercourses.

Drip pans or absorbent pads should be used during vehicle and equipment maintenance work that involves fluids, unless the maintenance work is performed over an impermeable surface in a dedicated maintenance area.

Place a stockpile of spill cleanup materials where it will be readily accessible.

All fueling trucks and fueling areas are required to have spill kits and/or use other spill protection devices.

Use absorbent materials on small spills. Remove the absorbent materials promptly and dispose of properly.

Inspect onsite vehicles and equipment daily at startup for leaks and repair immediately.

Keep vehicles and equipment clean; do not allow excessive build-up of oil and grease.

Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, batteries, hydraulic and transmission fluids. Provide secondary containment and covers for these materials if stored onsite.

Train employees and subcontractors in proper maintenance and spill cleanup procedures.

Drip pans or plastic sheeting should be placed under all vehicles and equipment placed on docks, borges, or other structures over water bodies when the vehicle or equipment is planned to be idle for more than 1 hour.

Properly dispose of used oils, fluids, lubricants and spill cleanup materials.

Do not place used oil in a dumpster or pour into a storm drain or watercourse.

Properly dispose of or recycle used batteries.

Do not bury used tires.

Repair leaks of fluids and oil immediately.

Listed below is further information if you must perform vehicle or equipment maintenance onsite.

Inspection and Maintenance

Inspect and verify that BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.

Keep ample supplies of spill cleanup materials onsite.

Maintain waste fluid containers in leak proof condition.

Vehicles and equipment should be inspected on each day of use. Leaks should be repaired immediately or the problem vehicle(s) or equipment should be removed from the project site.

Inspect equipment for damaged hoses and leaky gaskets routinely. Repair or replace as needed.

Vehicle and Equipment Fueling

Description and purpose

Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and reduce or eliminate contamination of stormwater. This can be accomplished by using offsite facilities, fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees and subcontractors in proper fueling procedures.

Limitations

Onsite vehicle and equipment fueling should only be used where it is impractical to send vehicles and equipment offsite for fueling. Sending vehicles and equipment offsite should be done in conjunction with a Stabilized Construction Entrance/Exit.

Implementation

Use offsite fueling stations as much as possible. These businesses are better equipped to handle fuel and spills properly. Performing this work offsite can also be economical by eliminating the need for separate fueling area at a site.

Discourage "topping-off" of fuel tanks.

Absorbent spill cleanup materials and spill kits should be available in fueling areas and on fueling trucks, and should be disposed of properly after use.

Drip pans or absorbent pans should be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area.

Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.

Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas.

Train employees and subcontractors in proper fueling and cleanup procedures.

Dedicated fueling areas should be protected from stormwater runon and runoff, and should be located at least 50 ft. away from downstream drainage facilities and watercourses. Fueling must be performed on level-grade areas.

Protect fueling areas with berms and dikes to prevent runon, runoff, and to contain spills.

Nozzles used in vehicles and equipment fueling should be equipped with an automatic shutoff to control drips, Fueling operations should not be left unattended.

Inspection and Maintenance

Vehicles and equipment should be inspected each day of use for leaks. Leaks should be repaired immediately or problem vehicles or equipment should be removed from the project site.

Keep ample supplies of spill cleanup materials onsite.

Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

Solid Waste Management

Description and Purpose

Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

Suitable Applications

This BMP is suitable for construction sites where the following wastes are generated or stored:

1. Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction.

2. Packaging materials including wood, paper and plastic.

3. Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products.

4. Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes.

5. Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam and other materials, transport and package construction materials.

Implementation

The following steps will help keep a clean site and reduce stormwater pollution:

Select designated waste collection areas onsite.

Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use.

Inspect dumpsters for leaks and contact the trash hauling contractor to repair any dumpster that is not watertight.

Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.

Plan for additional containers and more frequent pickup during the demolition phase of construction.

Collect site trash daily, especially during rainy and windy conditions.

Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.

Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curling compounds) are not disposed of in dumpsters designated for construction debris.

Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor offsite.

Arrange for regular waste collection before container overflow.

Clean up immediately if a container does spill.

Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.

Collection Storage and Disposal

Littering on the project site should be prohibited.

To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash racks and ditch lines should be a priority.

Trash receptacles should be provided and located by the general contractor and instruct all personnel on site to properly use the appropriate trash receptacle.

Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. Collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.

Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project.

Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.

Construction debris and waste should be removed from the site biweekly or more frequently as needed.

Stormwater runoff should be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.

Solid waste storage areas should be located at least 50 ft. from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding.

Inspection and Maintenance

Inspect and verify that activity based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly to verify continued BMP implementation.

Inspect BMPs subject to non-stormwater discharge daily while non-stormwater dischorges occur.

Inspect construction waste area regularly.

Arrange for regular waste collection.

Concrete Washout

The following steps will help reduce stormwater pollution from concrete wastes:

Discuss the concrete management techniques in this BMP (such as handling of concrete waste and washout) with the ready-mix concrete supplier before any deliveries are made.

Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.

Store dry and wet materials away from drainage areas.

Avoid mixing excess amounts of fresh concrete.

Perform washout of concrete trucks offsite or in designated areas only.

Do not washout concrete trucks into storm drains, open ditches, streets or streams.

Do not allow excess concrete to be dumped onsite, except in designated areas.

For onsite washout:
– Locate washout area at least 50 feet from storm drains, open ditches, or water bodies.
– Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
– Wash out wastes into the temporary pit where the concrete can set, be broken up, and then disposed of properly.
– Avoid creating runoff by draining water to a bermed or level area when washing concrete to remove fine particles and expose the aggregate.
– Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.

S.W.P.P.P.

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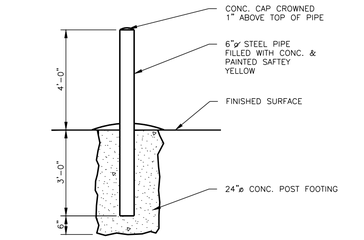
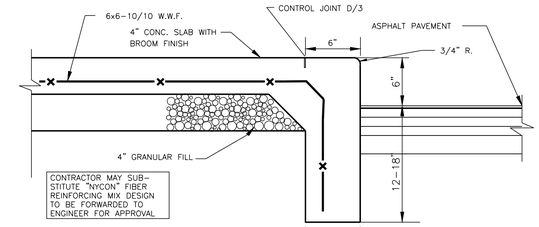
ISSUE	DATE
PRE-FILING CONFERENCE	2-09-2014
WESTFIELD - DP SUBMITTAL	2-26-2014

DRAWN BY: ALD
CHECKED BY: ALD
PROJECT No. 1410-059
SHEET No. C5



PIPE BOLLARD DETAIL

NOT TO SCALE — 1 / C6

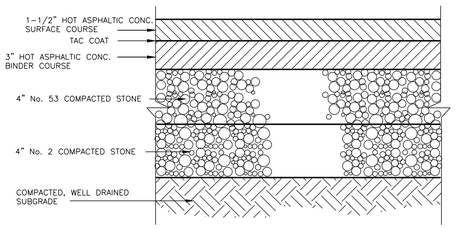


CONCRETE WALK/STOOP DETAIL

NOT TO SCALE — 7 / C6

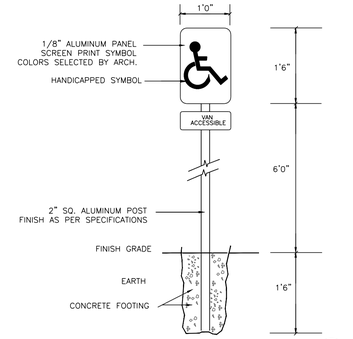
NOTES:

1. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT 6'-0" SPACING AND 48"-0" BETWEEN EXPANSION JOINTS. (FOR SIDEWALK ONLY)
2. SUBGRADE UNDER ALL CURB, SIDEWALK, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
3. WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 6".
4. WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY #4 DEFORMED RE-BAR AT 3'-0" o.c. IF NO CONCRETE PAVEMENT IS BEING BUILT, AT THE TIME, THE CURB IS CONSTRUCTED, EXPANSION JOINTS SHALL BE PLACED AT THE ENDS OF ALL RADII AND AT INTERVALS NOT TO EXCEED 100'. CONTRACTION JOINTS SHALL BE PLACED AT 20' o.c.



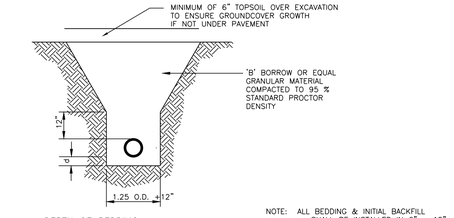
HEAVY DUTY ASPHALT PAVEMENT SECTION

NOT TO SCALE — 2 / C6



HANDICAPPED PARKING SIGN

NOT TO SCALE — 8 / C6



DEPTH OF BEDDING MATERIAL BELOW PIPE

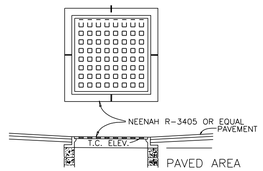
INSIDE DIAMETER	(d) MIN.
27" & SMALLER	3"
30" - 60"	4"
66" & LARGER	6"

NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" - 12" BALANCED LIFTS

A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

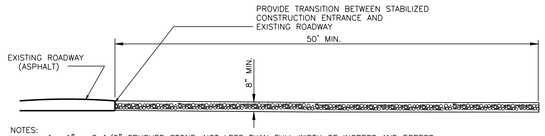
CONCRETE PIPE TRENCH DETAIL (W/I 5' OF PAVEMENT)

NOT TO SCALE — 11 / C6



STORM SEWER CASTING

(NO SCALE) — 12 / C6

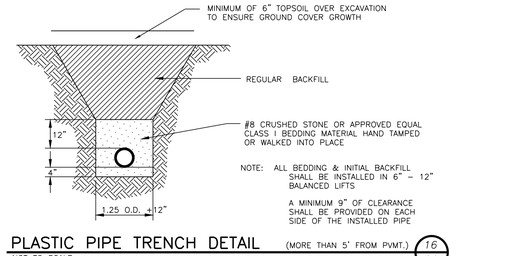


NOTES:

1. 1" - 2 1/2" CRUSHED STONE, NOT LESS THAN FULL WIDTH OF INGRESS AND EGRESS.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP.
3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO EXISTING ROADWAY. ALL SEDIMENT SPILLED, TRACKED, OR DROPPED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE — 13 / C6

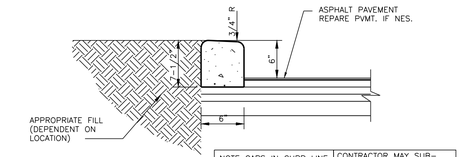


NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" - 12" BALANCED LIFTS

A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

PLASTIC PIPE TRENCH DETAIL (MORE THAN 5' FROM PVMT.)

NOT TO SCALE — 16 / C6



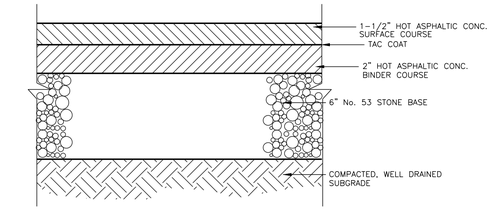
CONTRACTOR TO PROVIDE CONCRETE/ASPHALT ADHESIVE SUBMIT TO ENGINEER FOR APPROVAL

NOTES:

1. WHERE SIDEWALK IS CONSTRUCTED IMMEDIATELY ADJACENT TO CURB, THE SURFACE OF THE SIDEWALK SHALL BE CONSTRUCTED 1/4" HIGHER THAN THE CURB.
2. TRANSVERSE JOINTS SHALL BE CUT WITH A JOINTER HAVING A RADIUS OF 1/4" AT 6'-0" SPACING AND 48"-0" BETWEEN EXPANSION JOINTS.
3. SUBGRADE UNDER ALL CURB, SIDEWALK, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH CONCRETE SPECIFICATIONS.
4. WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 6".
5. WHEN BUILT IN CONJUNCTION WITH CONCRETE PAVEMENT, EXPANSION AND CONTRACTION JOINTS SHOULD BE PLACED AT THE SAME LOCATIONS AS IN THE PAVEMENT SLAB. THE CURB AND GUTTER SHOULD BE TIED TO THE PAVEMENT BY #4 DEFORMED RE-BAR AT 3'-0" o.c. IF NO CONCRETE PAVEMENT IS BEING BUILT, AT THE TIME, THE CURB IS CONSTRUCTED, EXPANSION JOINTS SHALL BE PLACED AT THE ENDS OF ALL RADII AND AT INTERVALS NOT TO EXCEED 100'. CONTRACTION JOINTS SHALL BE PLACED AT 20' o.c.

STANDING CURB DETAIL

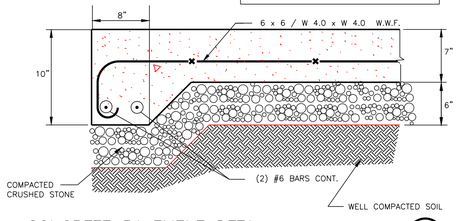
NOT TO SCALE — 17 / C6



LIGHT DUTY ASPHALT PAVEMENT SECTION

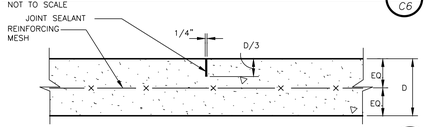
NOT TO SCALE — 3 / C6

CONCRETE FIBER MIX MAY BE USED, BUT MUST BE SUBMITTED FOR APPROVAL OF THE MIX DESIGN BY THE ENGINEER



CONCRETE PAVEMENT DETAIL

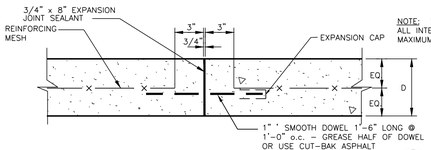
NOT TO SCALE — 4 / C6



NOTE: THIS JOINT TO BE SPACED AT A MAXIMUM OF 15'-0" GRID

CONTROL JOINT DETAIL

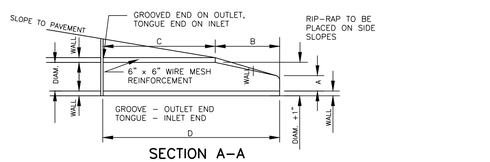
NOT TO SCALE — 5 / C6



NOTE: THIS JOINT TO BE USED AT ALL INTERSECTIONS AND ENDS OF DAILY 'POURS' MAXIMUM SPACING SHALL BE 240'

EXPANSION JOINT DETAIL

NOT TO SCALE — 6 / C6



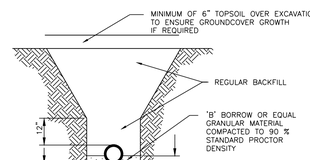
SECTION A-A

END-SECTION SHALL COMPLY WITH ALL APPLICABLE PORTIONS OF A.S.T.M. C76.

DIAM.	WALL	T or G	WEIGHT	A	B	C	D	E	DIAM. +1"	R-1	R-2	SKIRT
12	2	1 1/2	530	4	24	487/8	727/8	24	13	10 1/16	9	31/2
15	2 1/4	2	740	6	27	46	73	30	16	121/2	11	31/2
18	2 1/2	2 1/2	990	9	27	46	73	36	19	151/2	12	4
21	2 3/4	2 1/4	1280	9	35	58	73	42	22	1618	13	4
24	3	2 1/2	1520	91/2	431/2	30	731/2	48	25	16 11/16	14	4 1/2

RCP END-SECTION DETAIL

NOT TO SCALE — 9 / C6



NOTE: ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 6" - 12" BALANCED LIFTS

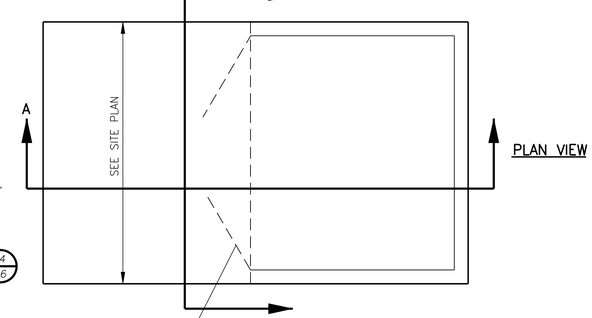
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE

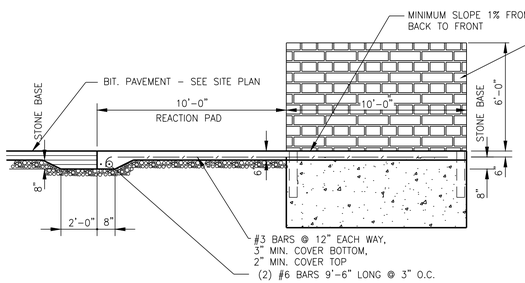
DEPTH OF BEDDING MATERIAL BELOW PIPE

INSIDE DIAMETER	(d) MIN.
27" & SMALLER	3"
30" - 60"	4"
66" & LARGER	6"

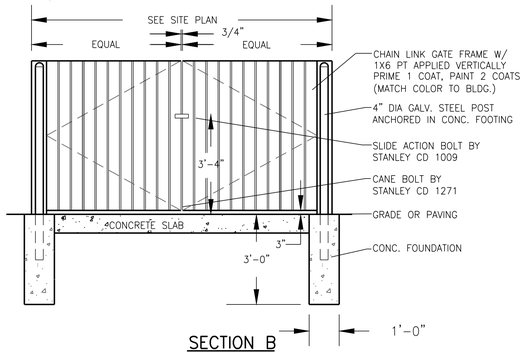
CONCRETE PIPE TRENCH DETAIL (MORE THAN 5' FROM PVMT.)

NOT TO SCALE — 10 / C6





SECTION A



SECTION B

DUMPSTER PAD DETAIL

NOT TO SCALE — 15 / C6

SITE DETAILS

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

ISSUE	DATE
PRE-FILING CONFERENCE	2-09-2014
WESTFIELD - DP SUBMITTAL	2-26-2014
PLAN COMMISSION APPROVAL	4-13-2014
DUMPSTER REVISIONS	4-16-2014

KEELER-WEBB ASSOCIATES
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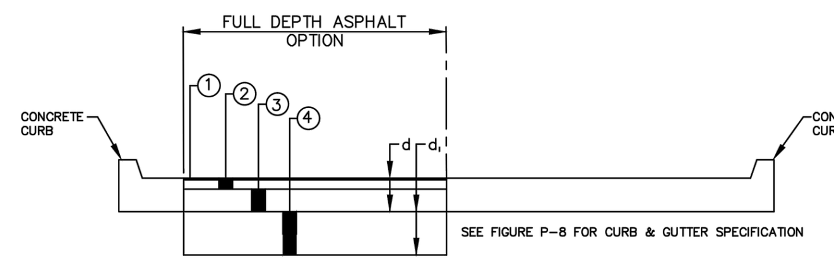
DRAWN BY: ALD
CHECKED BY: ALD

PROJECT No. 1410-059

SHEET No. C6



COLLECTOR STREETS

	ASPHALT 1 d=6.5" d=12" d+d=18.5"	ASPHALT 2 d=6.5" d=14" d+d=20.5"
1	1.5" SURFACE 9.5 mm	1.5" SURFACE 9.5 mm
2	2.5" BINDER 19 mm	2.5" BINDER 19 mm
3	2.5" BINDER 19 mm	2.5" BINDER 19 mm
4	12" COMP. AGGR. (SIZE No. 53)	14" LIME TREATED * SUBBASE

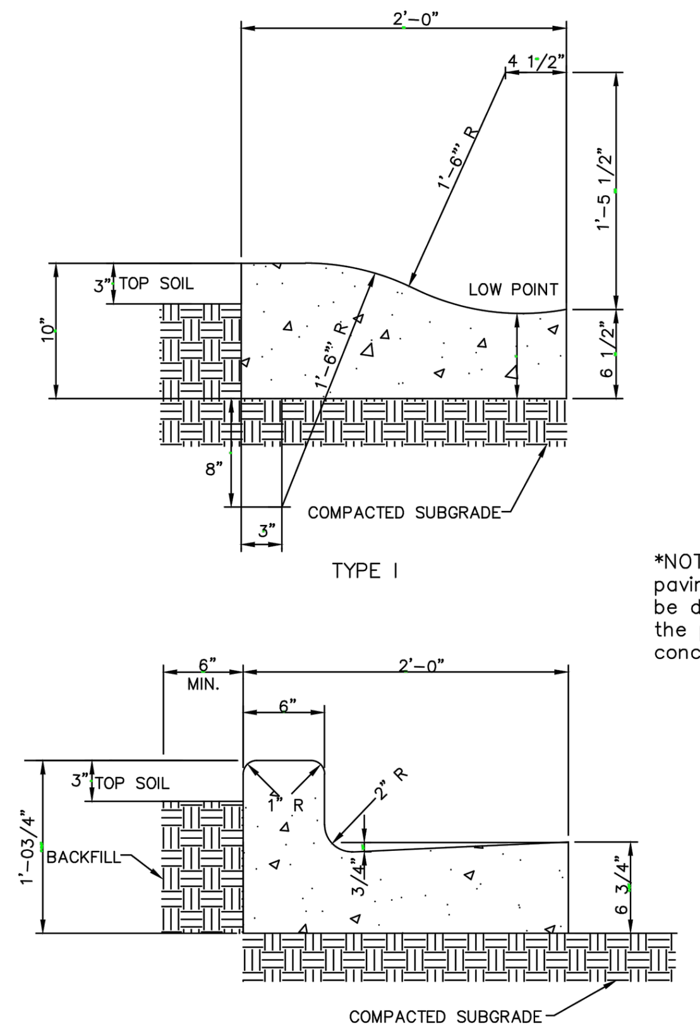
NOTE:

* LIME MODIFICATION SHALL BE IN ACCORDANCE WITH INDOTSS 215 AND 913.

TYPICAL PAVEMENT SECTIONS

CITY OF WESTFIELD, INDIANA

4/1/14 DATE FIGURE P-2

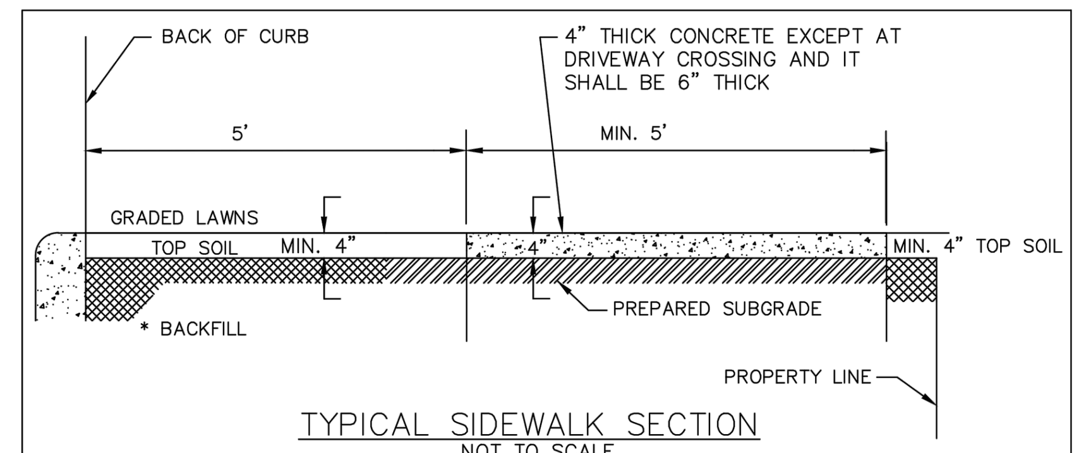


*NOTE – No backfilling, paving, or compaction may be done until 72 hours after the placement of the concrete.

CONCRETE CURB AND GUTTER TYPE I & II

CITY OF WESTFIELD, INDIANA

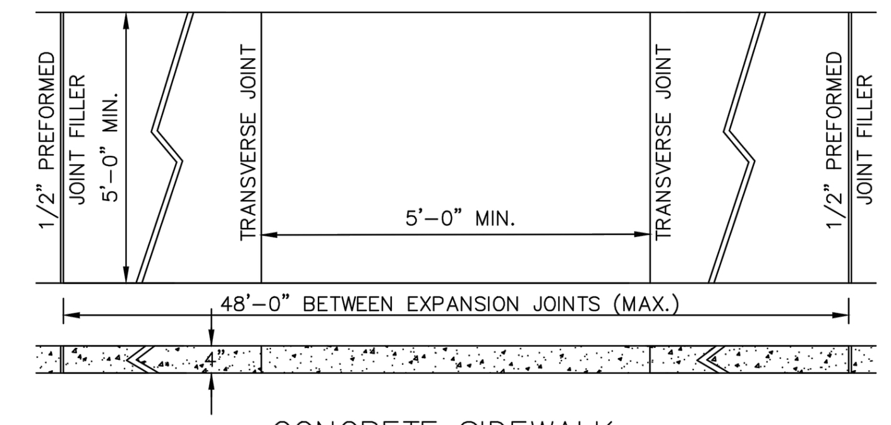
4/1/14 DATE FIGURE P-8



TYPICAL SIDEWALK SECTION
NOT TO SCALE

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

SUBGRADE UNDER ALL CURBS, SIDEWALKS, AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH I.N.D.O.T. SPECIFICATIONS.

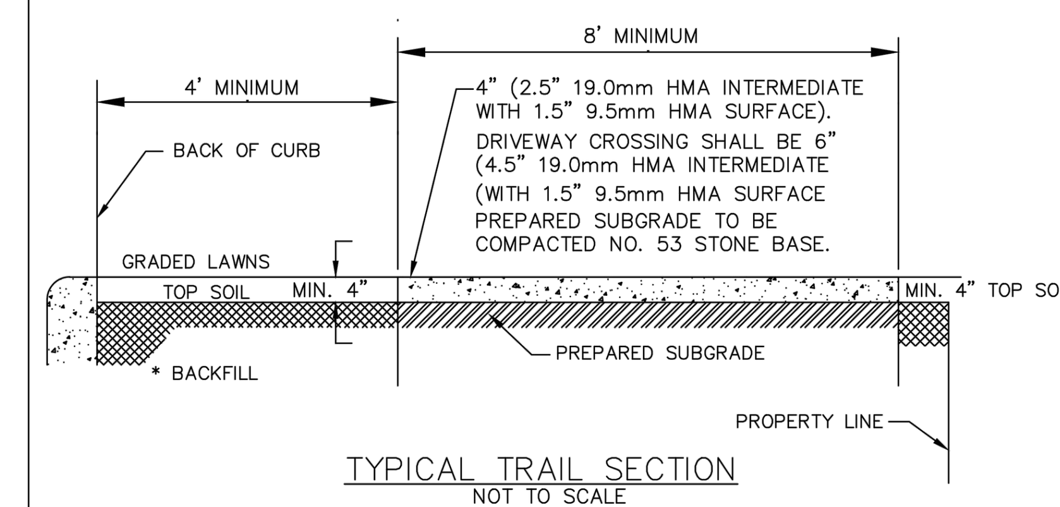


CONCRETE SIDEWALK
NOT TO SCALE

SIDEWALK DETAILS

CITY OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE P-10



TYPICAL TRAIL SECTION
NOT TO SCALE

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

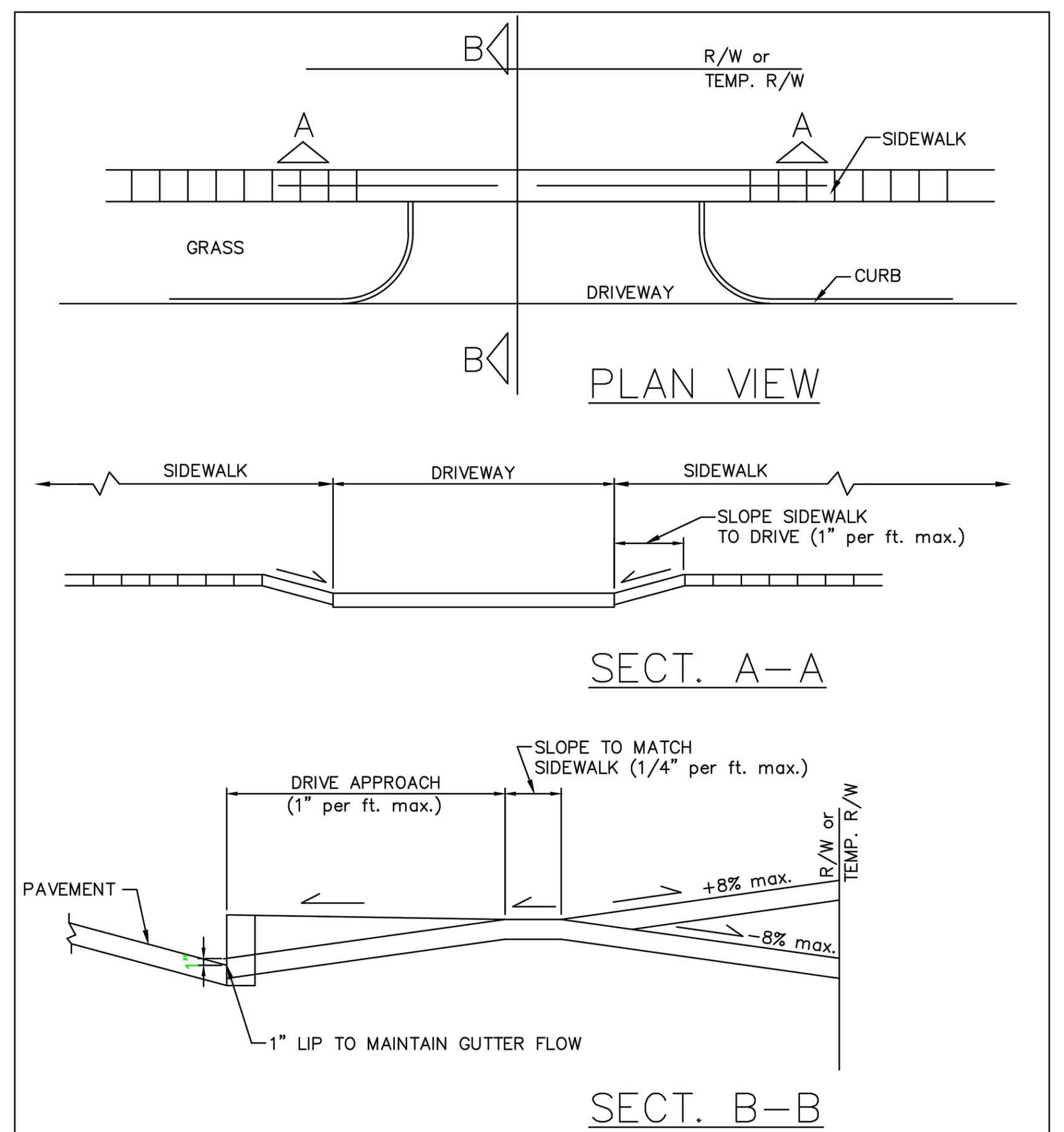
SUBGRADE UNDER ALL CURBS, SIDEWALKS, PATHS AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH I.N.D.O.T. SPECIFICATIONS.

SEE SECTION 02502 (STANDARDS FOR ROADWAY CONSTRUCTION) FOR DETAILED DISCRIPTION OF BICYCLE/JOGGING TRAIL CONSTRUCTION

BICYCLE/JOGGING TRAIL DETAIL

CITY OF WESTFIELD, INDIANA

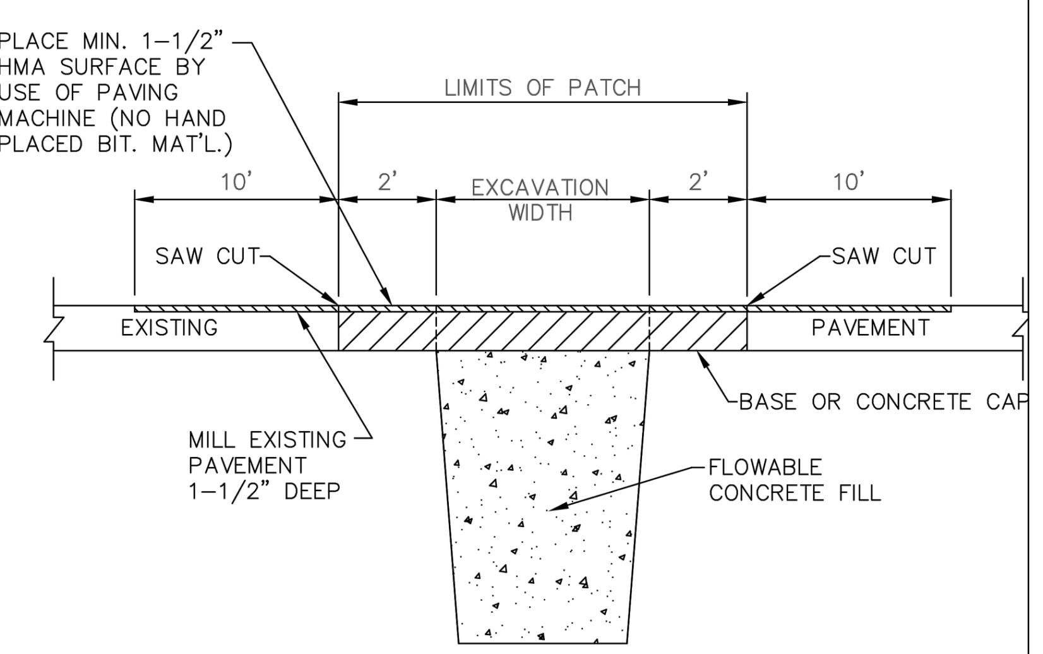
4/1/14 DATE FIGURE P-16



TYPICAL DRIVEWAY SECTION

CITY OF WESTFIELD, INDIANA

4/1/14 DATE FIGURE P-17



GENERAL DETAIL

NOTES:

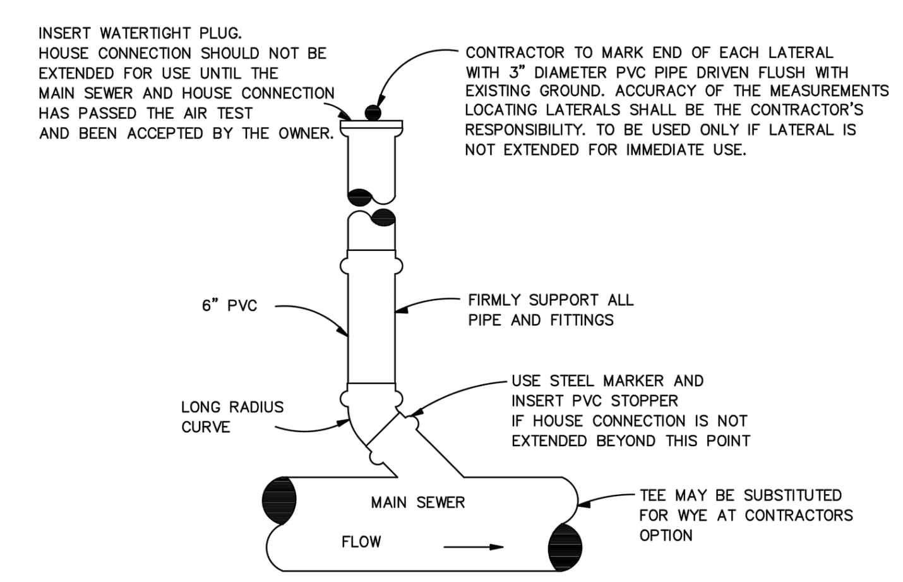
1. SAW CUT 1/3 PAVEMENT THICKNESS THEN BREAK OUT.

NOT TO SCALE

REPAIR CUTS WITHIN PAVEMENT LIMITS

CITY OF WESTFIELD, INDIANA

4/1/14 DATE FIGURE P-19



PLAN VIEW

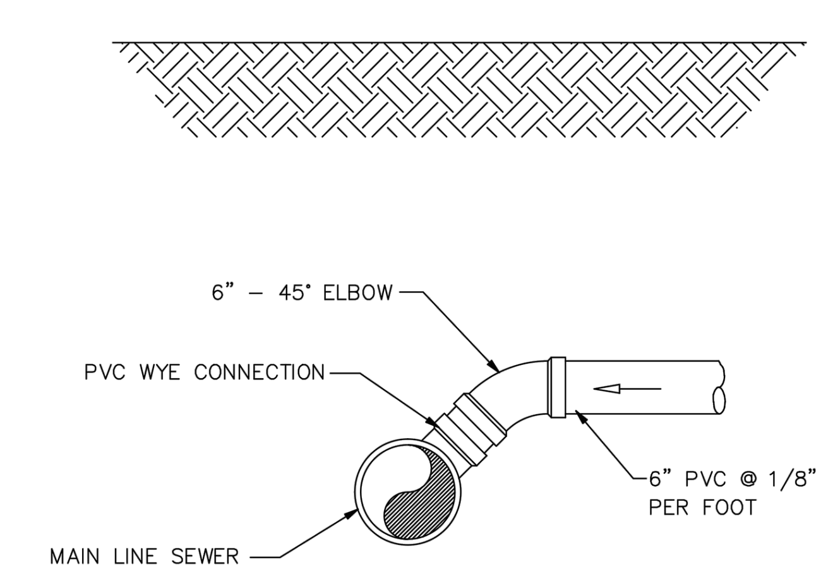
NOTES:

1. WYE BRANCHES OR TEES SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS. THEY SHALL BE EXTENDED TO PROPERTY LINE OF STREETS OR ALLEYS OR TO DISTANCES AS SHOWN ON THE DESIGN DRAWINGS AND SHALL BE OF 6" PVC SDR 35 UNLESS OTHERWISE SHOWN.
2. DEPTH AT PROPERTY LINE SHALL BE APPROXIMATELY 8'–0" UNLESS SEWER DEPTH IS LESS, IN WHICH EVENT A MINIMUM SLOPE OF 1/8" PER 1'–0" SHALL BE USED.
3. HOUSE SERVICE PIPE SHALL BE PVC SDR 35 CONFORMING TO ASTM D3034 WITH GASKETED JOINTS CONFORMING TO ASTM D3212 UNLESS OTHERWISE INDICATED.
4. HOUSE SERVICE PIPE SHALL BE INSTALLED PER SAME SPECIFICATIONS & DETAIL AS FOR MAIN LINE SEWER.

HOUSE/BUILDING SERVICE CONNECTION DETAIL 1

CITY OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE S-10

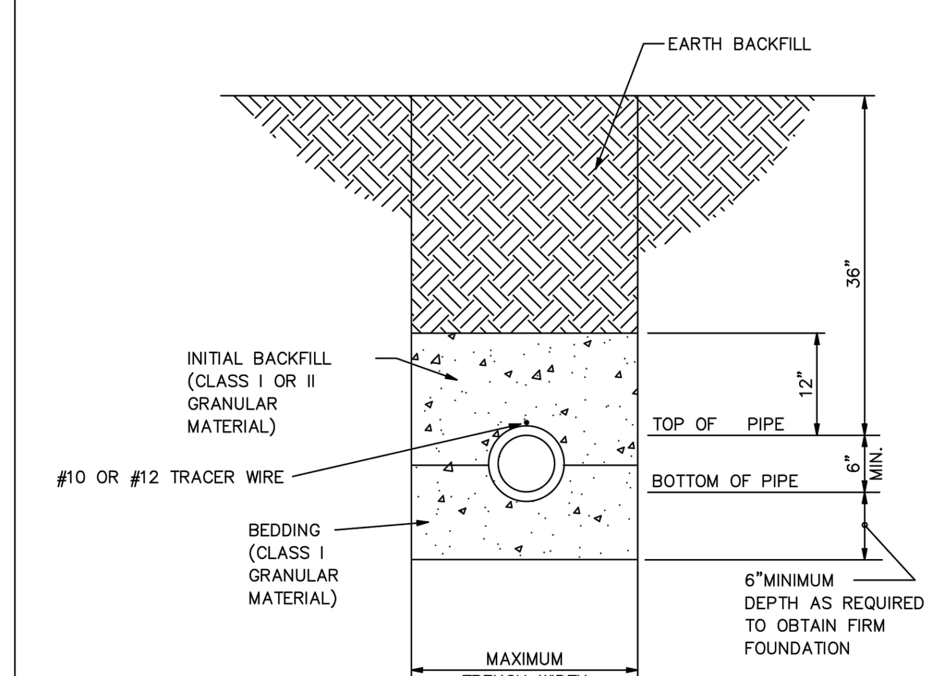


SECTIONAL VIEW

HOUSE/BUILDING SERVICE CONNECTION DETAIL 2

CITY OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE S-11



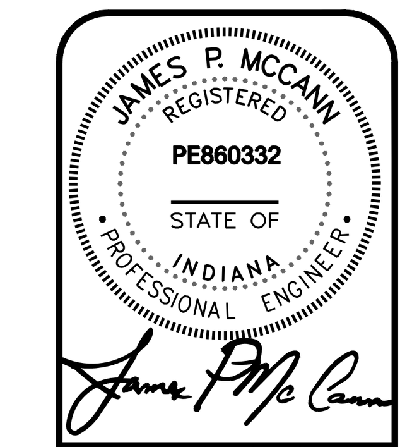
NOTES:

1. NOMINAL PIPE SIZE. (6" MIN.)
2. INSTALLATION OF FLEXIBLE PVC PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN ASTM D2321
3. CLASS I GRANULAR MATERIAL SHALL BE 1/4" TO 1 1/2" GRADED STONE, PER ASTM D2321 (#8 CRUSH STONE)
4. CLASS II GRANULAR MATERIAL SHALL BE COARSE SANDS AND GRAVELS MAX. PARTIAL SIZE OF 3/4"
5. SEE FIGURE S–5 FOR MAIN LINE SEWERS PIPE BEDDING DETAILS.
6. #10 OR #12 TRACER WIRE TO BE EXTENDED FROM SEWER MAIN TO 8" CLEAN OUT/CHECK VALVE RISER

HOUSE/BUILDING SERVICE BEDDING DETAILS

CITY OF WESTFIELD, INDIANA

4/1/13 DATE FIGURE S-12



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DATE	ISSUE
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4-13-2014	PLAN COMMISSION APPROVAL

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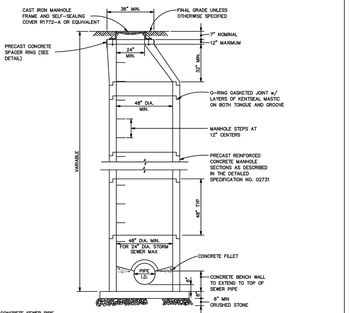
CITY of WESTFIELD SITE DETAILS



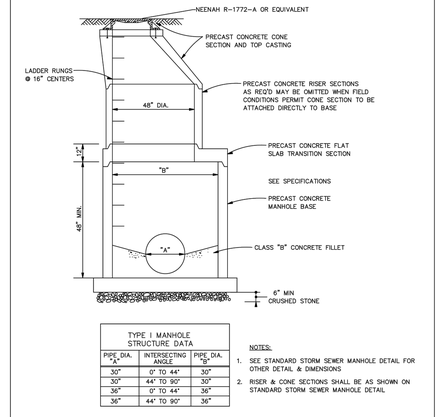
NOTE:
1. GROUT CONCRETE SEWER PIPE WATERTIGHT TO MANHOLE WALL.
2. INSTALL BUTYL RUBBER WATERSTOP FOR PIPE OTHER THAN CONCRETE SEWER PIPE
3. SEE TYPE 1 STORM SEWER MANHOLE DETAIL FOR SEWERS LARGER THAN 24"

STANDARD STORM MANHOLE DETAIL

CITY OF WESTFIELD, INDIANA

11/7/13 DATE

FIGURE ST-1



TYPE 1 MANHOLE STRUCTURE DATA		
PIPE DIA. "A"	INTERSECTING ANGLE	PIPE DIA. "B"
30"	0° TO 44°	30"
30"	44° TO 90°	30"
36"	0° TO 44°	36"
36"	44° TO 90°	36"

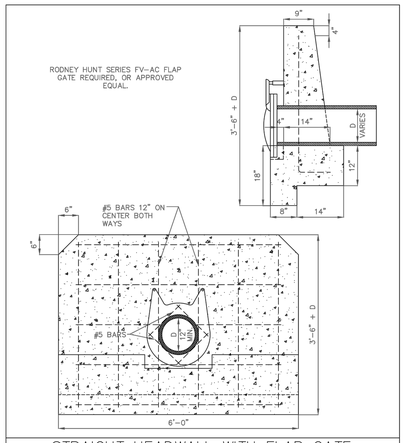
NOTES:
1. SEE STANDARD STORM SEWER MANHOLE DETAIL FOR OTHER DETAIL & DIMENSIONS
2. RISER & CONE SECTIONS SHALL BE AS SHOWN ON STANDARD STORM SEWER MANHOLE DETAIL

TYPE 1 STORM SEWER MANHOLE DETAIL

CITY OF WESTFIELD, INDIANA

4/1/13 DATE

FIGURE ST-2

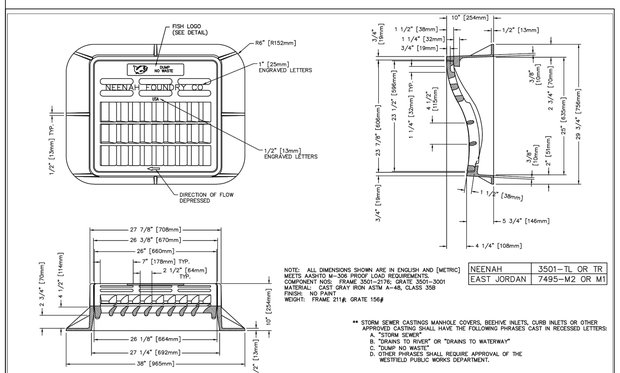


STRAIGHT HEADWALL WITH FLAP GATE

CITY OF WESTFIELD, INDIANA

4/1/14 DATE

FIGURE ST-4



NOTE: ALL DIMENSIONS SHOWN ARE IN ENGLISH AND [METRIC]
MEETS AASHTO M-306 PROOF LOAD REQUIREMENTS
COMPONENT NOS: FRAME 3501-2176, GRATE 3501-3001
MATERIAL: CAST GRAY IRON ASTM A-48, CLASS 35B
FINISH: NO PAINT
WEIGHT: FRAME 211#, GRATE 156#

NEENAH	3501-TL OR TR
EAST JORDAN	7495-M2 OR M1

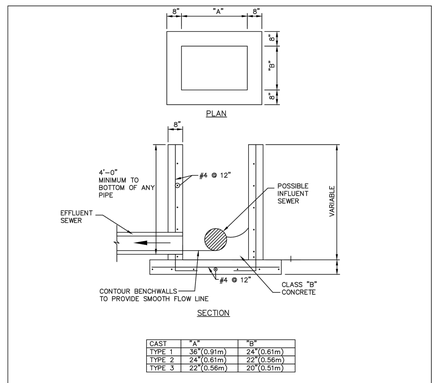
** STORM SEWER CASTINGS MANHOLE COVERS, BEEHIVE INLETS, CURB INLETS OR OTHER APPROVED CASTING SHALL HAVE THE FOLLOWING PHRASES CAST IN RECESSED LETTERS:
A. "STORM SEWER"
B. "DRAINS TO RIVER" OR "DRAINS TO WATERWAY"
C. "DUMP NO WASTE"
D. OTHER PHRASES SHALL REQUIRE APPROVAL OF THE WESTFIELD PUBLIC WORKS DEPARTMENT.

ROLLED CURB INLET CASTING

CITY OF WESTFIELD INDIANA

11/7/13 DATE

FIGURE ST-9



CAST	"A"	"B"
TYPE 1	36"(0.91m)	24"(0.61m)
TYPE 2	24"(0.61m)	22"(0.56m)
TYPE 3	22"(0.56m)	20"(0.51m)

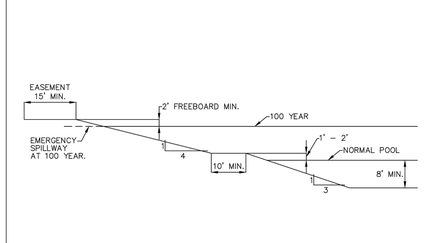
NOTE:
1. THESE DIMENSIONS ARE ALSO APPLICABLE TO TYPE "CA" CATCH BASINS. (See figure ST-13)
2. PRECAST INLETS AND CATCH BASINS SHALL BE CONSIDERED AN ACCEPTABLE ALTERNATE IF APPROVED BY THE WESTFIELD PUBLIC WORKS DEPARTMENT

INLET STRUCTURE TYPE 1A

CITY OF WESTFIELD, INDIANA

4/1/14 DATE

FIGURE ST-11



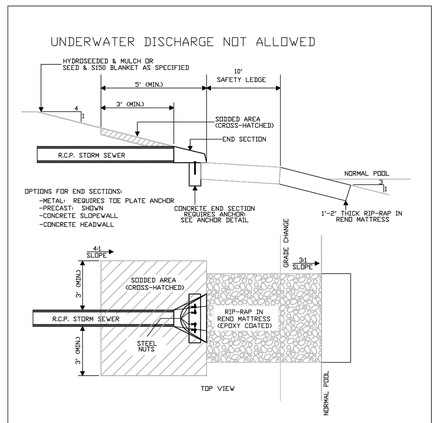
USE OUTLET OPTION 1 (SEE FIGURE ST-26)

LAKE CROSS SECTIONS: OPTION 1

CITY OF WESTFIELD, INDIANA

4/1/13 DATE

FIGURE ST-23

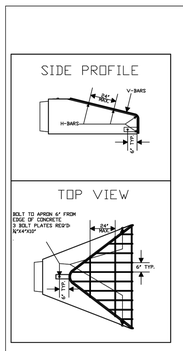


LAKE OUTLET DETAIL FOR LAKE CROSS-SECTION OPTION 1

CITY OF WESTFIELD, INDIANA

4/1/13 DATE

FIGURE ST-26



Arch pipe aprons	Apron Size Inches	V-bar Size Inches	No. of H-bars Reqd	H-bar Size Inches	Bolt Dia. Inches	"A" Dim. Inches
	18	1/2	3	5/8	1/2	5
	24	5/8	4	3/4	1/2	7
	30	5/8	4	3/4	1/2	7 1/2
	36	3/4	4	1	1/2	10 1/2
	42	3/4	4	1	3/4	11
	48	3/4	4	1 ½ pipe	3/4	12
	54	3/4	4	1 ½ pipe	3/4	12
	60	3/4	5	1 ½ pipe	3/4	14
	72	3/4	5	1 ½ pipe	3/4	14
	84	3/4	6	1 ½ pipe	3/4	15

Round pipe aprons						
	12	1/2	3	5/8	1/2	4
	15	1/2	3	5/8	1/2	4 1/2
	18	1/2	4	5/8	1/2	4 1/2
	21	1/2	4	5/8	1/2	5
	24	5/8	4	3/4	1/2	5
	27	5/8	4	3/4	1/2	5 1/2
	30	5/8	4	3/4	1/2	5 1/2
	36	3/4	4	1	3/4	8
	42	3/4	4	1	3/4	8
	48	3/4	5	1	3/4	8
	54	3/4	5	1 ½ pipe	3/4	8
	60	3/4	5	1 ½ pipe	3/4	8
	66	3/4	6	1 ½ pipe	3/4	8
	72	3/4	6	1 ½ pipe	3/4	9
	84	3/4	7	1 ½ pipe	3/4	10
	90	3/4	7	1 ½ pipe	3/4	14

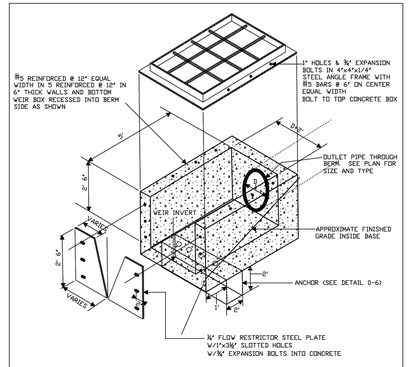
NOTES:
1. BARS & PLATES ARE HOT-ROLLED STEEL.
2. BARS, PLATES, & PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
3. BOLTS ARE GALVINIZED
4. NO REBAR THROUGH PIPES WILL BE ALLOWED
5. DEBRIS GUARD SHALL BE REMOVABLE

DEBRIS GUARD

CITY OF WESTFIELD, INDIANA

4/1/13 DATE

FIGURE ST-29



ISOMETRIC @ WEIR OUTLET

CITY OF WESTFIELD, INDIANA

4/1/13 DATE

FIGURE ST-34

CITY of WESTFIELD DRAINAGE DETAILS

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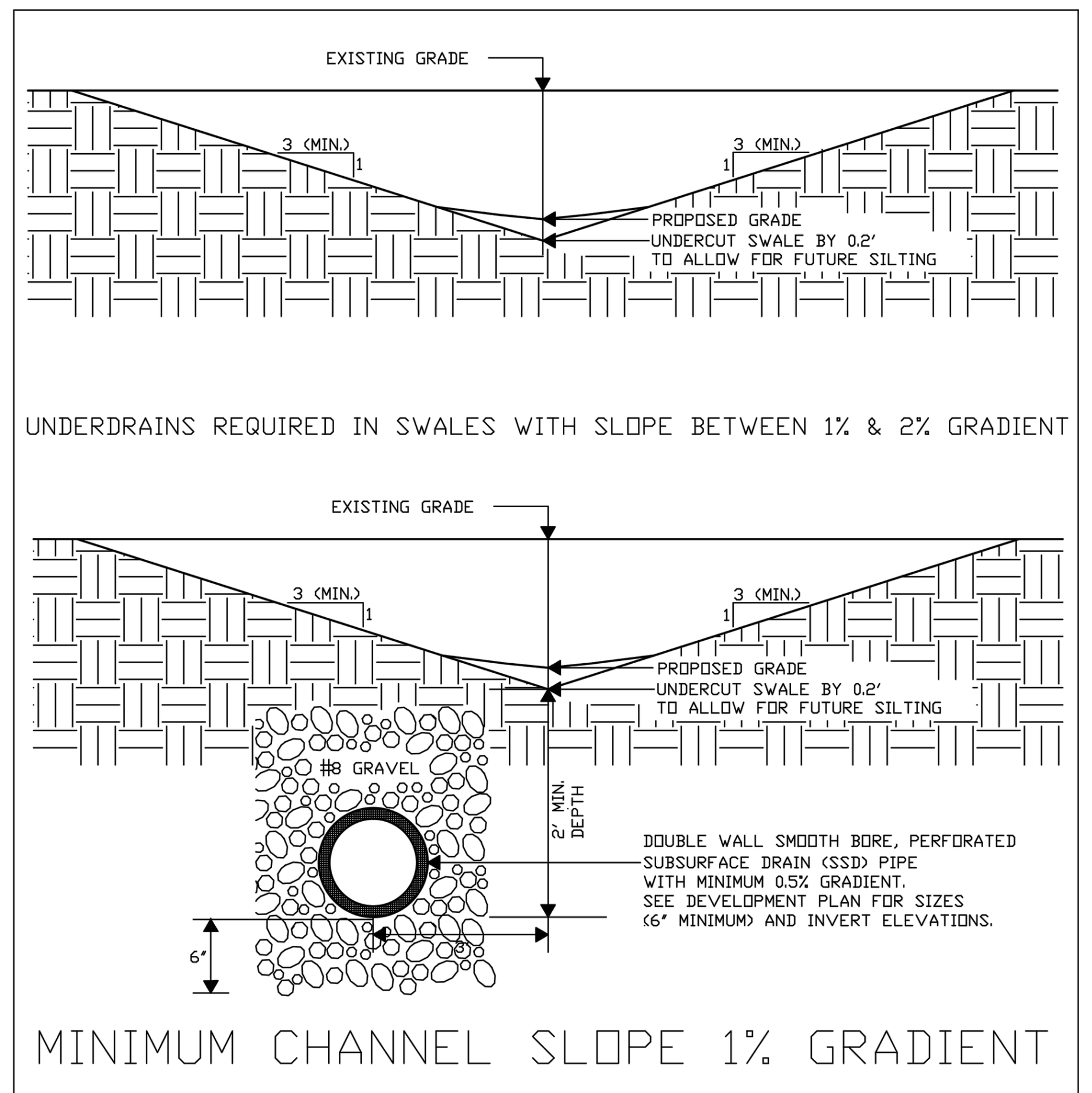
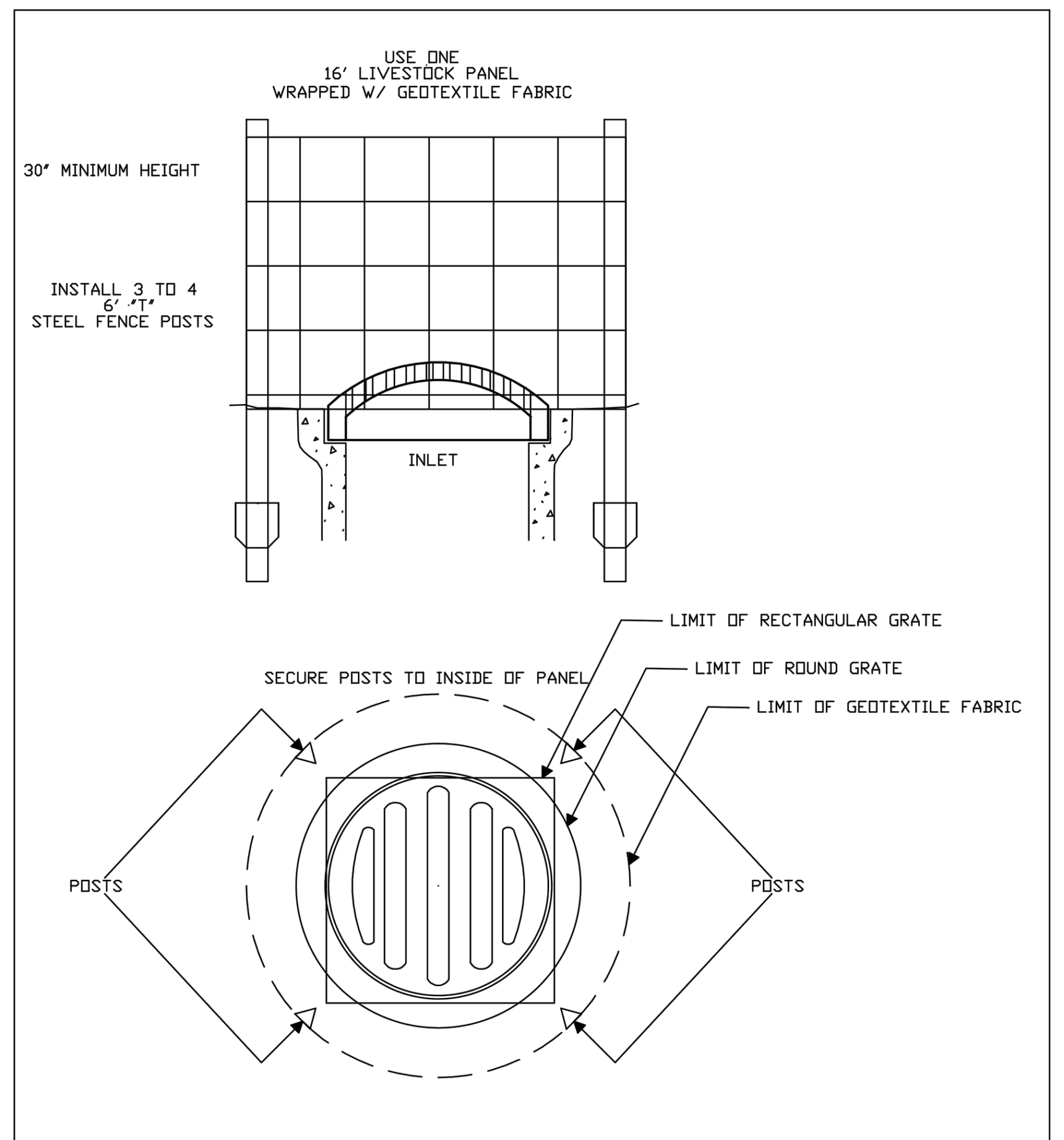


TYPICAL SWALE DETAIL

CITY OF WESTFIELD, INDIANA

4/1/13
DATE
FIGURE ST-43



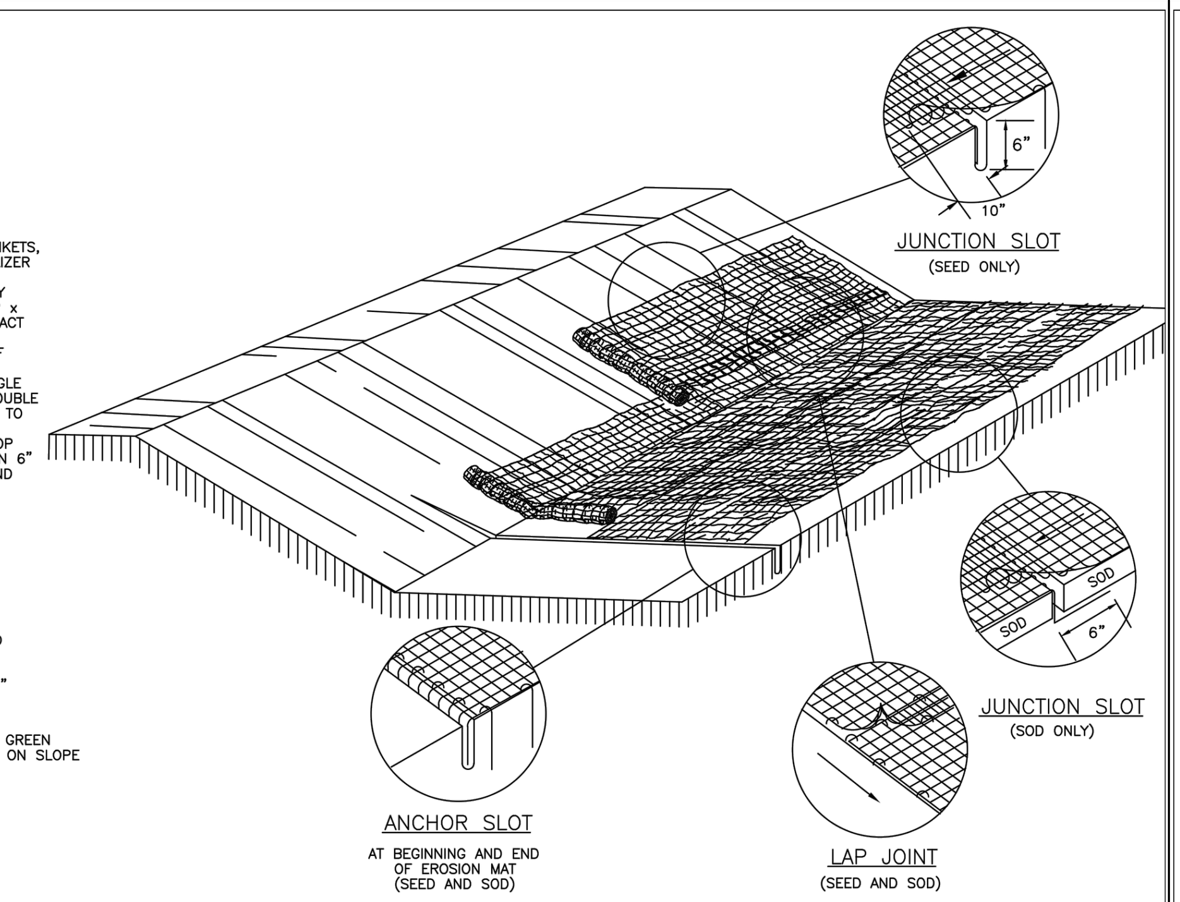
TEMPORARY DITCH INLET PROTECTION

CITY OF WESTFIELD, INDIANA

4/1/13
DATE
FIGURE EC-1

GENERAL NOTES

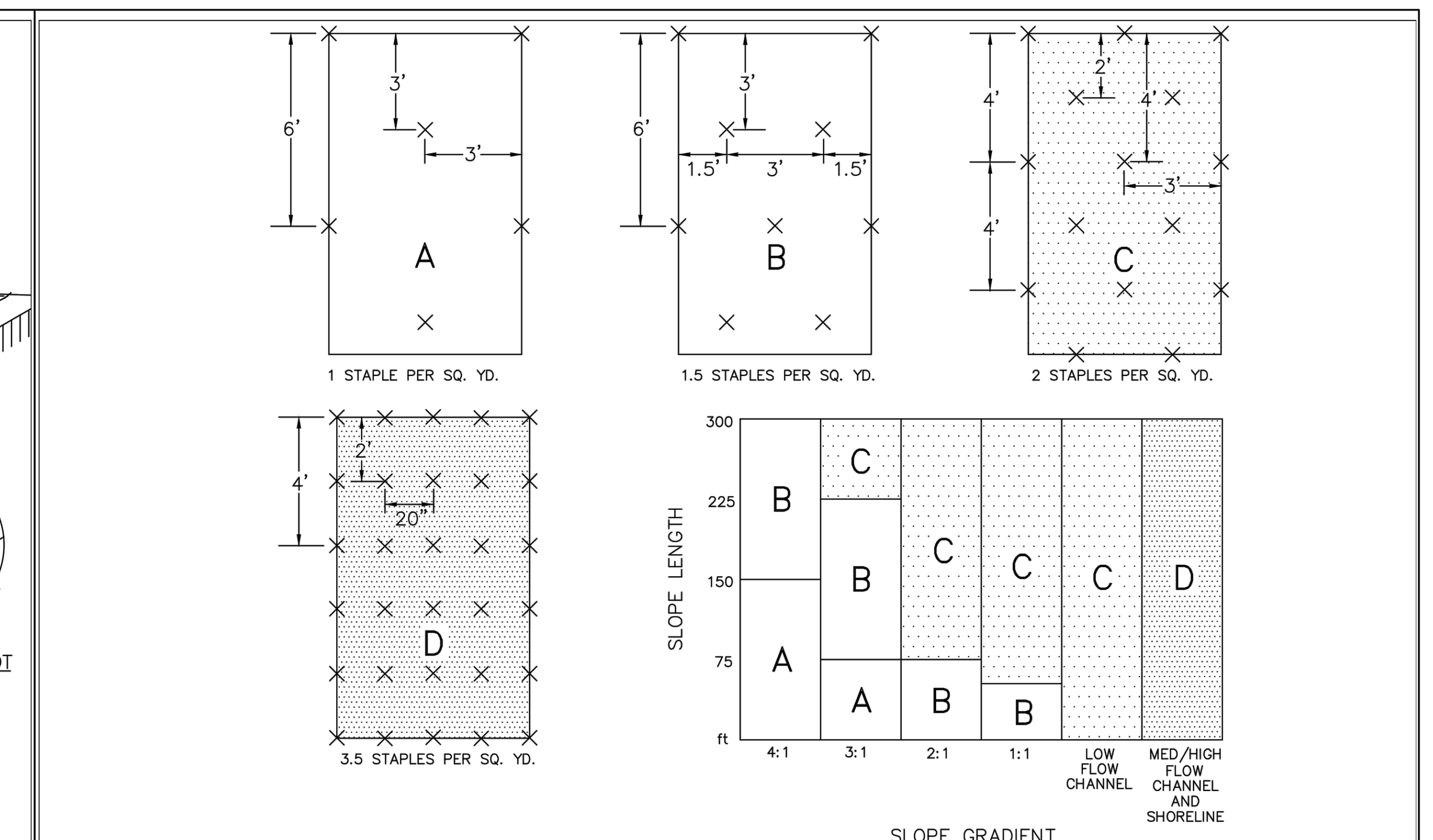
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
7. IN MEDIUM/HIGH FLOW CHANNEL APP–LICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
8. BLANKET TYPE TO BE NORTH AMERICAN GREEN S75 OR S150 (OR SIMILAR) DEPENDING ON SLOPE



EROSION CONTROL MAT – SLOPE DETAIL

CITY OF WESTFIELD, INDIANA

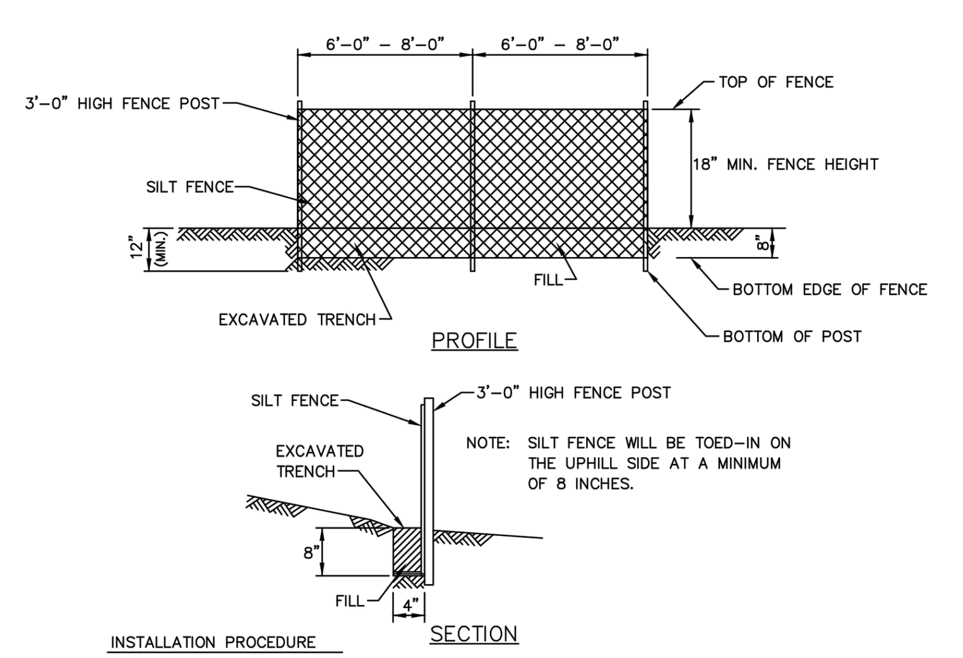
4/1/14
DATE
FIGURE EC-2



EROSION CONTROL MAT – STAPLE GUIDE

CITY OF WESTFIELD, INDIANA

4/1/14
DATE
FIGURE EC-3



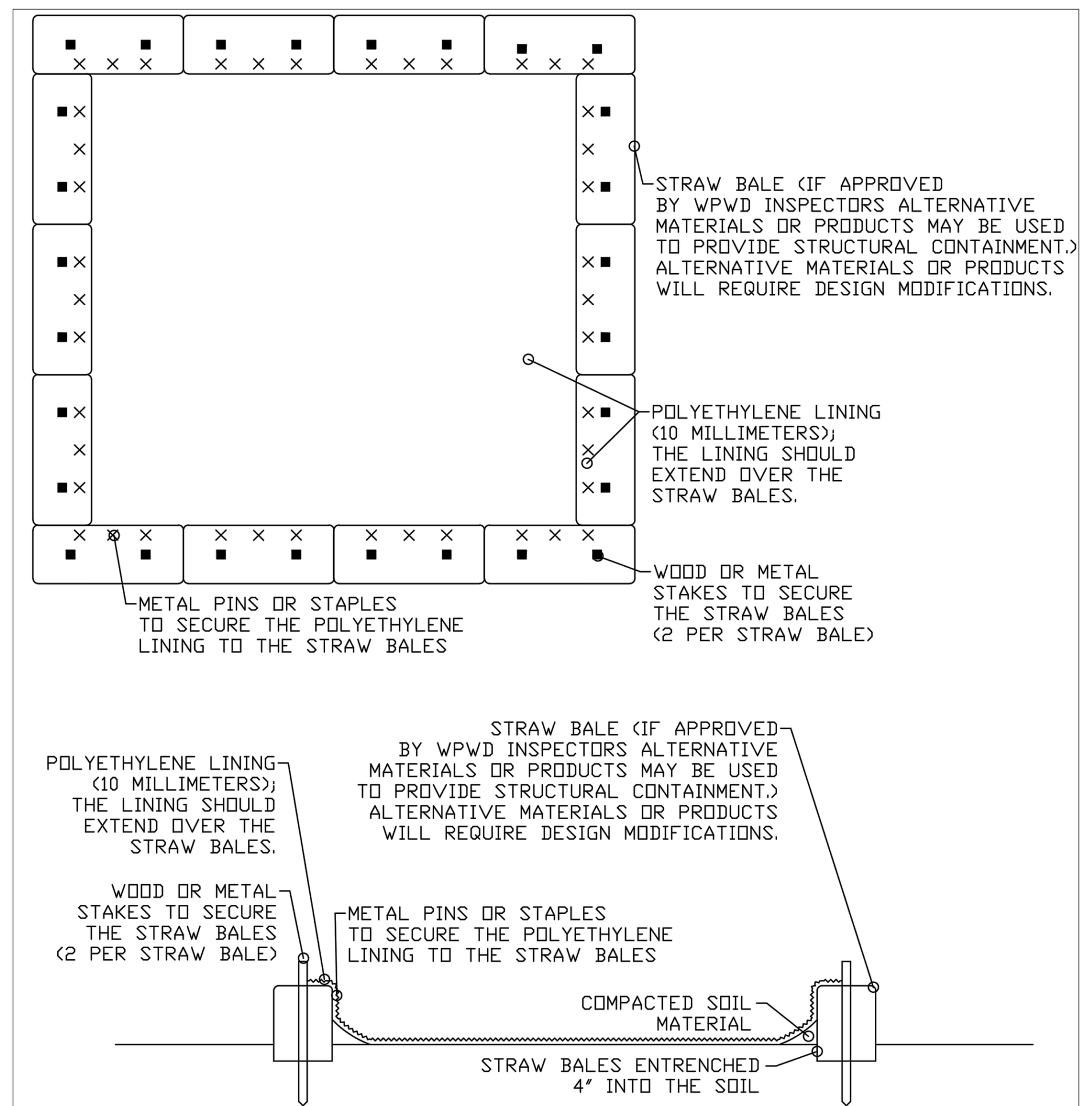
INSTALLATION PROCEDURE

1. 2" x 2" X 36" HARDWOOD OR STEEL FENCE POSTS ARE INSTALLED 6' APART (w/ EXTRA STRENGTH FABRIC WITHOUT WIRE BACKING) OR 8' APART (w/ WIRE BACKING), ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. A TRENCH 4" WIDE BY 8" DEEP IS DUG ALONG THE UPHILL SIDE OF THE FENCE LINE.
3. THE SILT FENCE IS UNROLLED AND LAID OUT ALONG THE FENCE LINE.
4. AT THIS TIME THE LOWER 8" OF THE FENCE IS LAID IN THE TRENCH AND CURLED TOWARD THE EROSION SOURCE. THE TRENCH IS THEN BACKFILLED WITH SOIL.

SILT FENCE DETAIL

CITY OF WESTFIELD, INDIANA

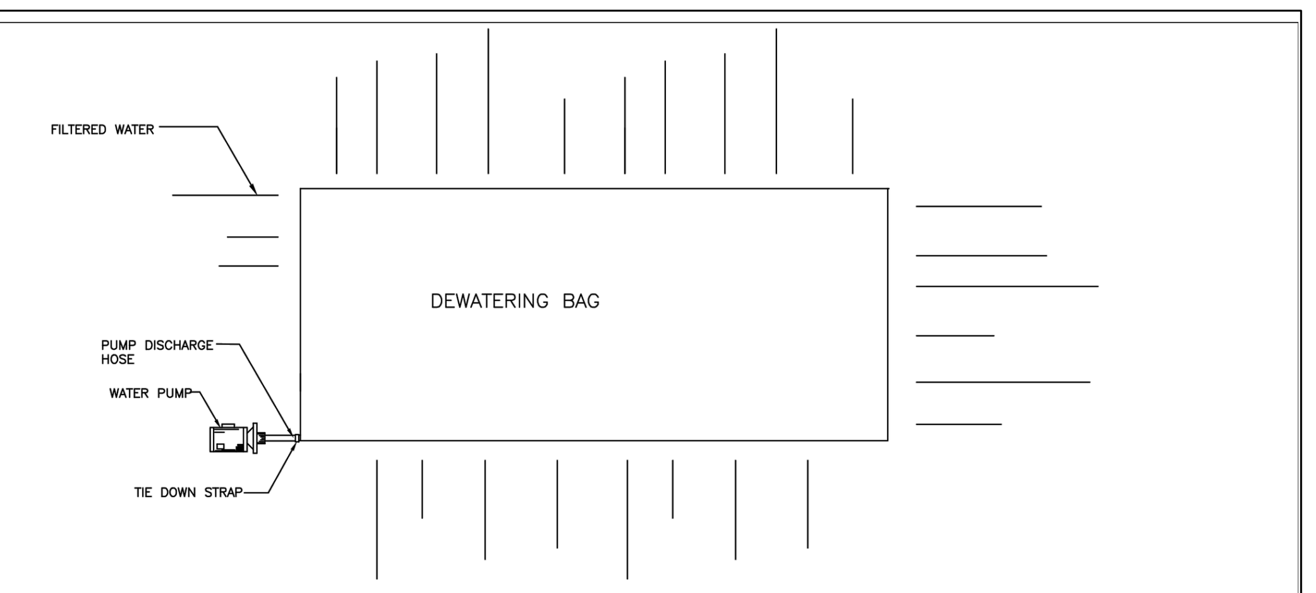
4/1/13
DATE
FIGURE EC-4



CONCRETE WASHOUT DETAIL

CITY OF WESTFIELD, INDIANA

4/1/13
DATE
FIGURE EC-5



Dewatering Filtration Bag Size	Maximum Gallon Per Minute Capacity
4' x 6'	228
7.5' x 7.5'	534
10' x 10'	950
10' x 15'	1,425
15' x 15'	2,137
15' x 30'	4,275
15' x 65'	9,262

INSTALLATION AND MAINTENANCE GUIDELINES

INSTALLATION: PLACE LIFTING STRAPS (NOT INCLUDED) UNDER THE UNIT TO FACILITATE REMOVAL AFTER USE. UNFOLD D2 DEWATERING BAG ON A STABILIZED AREA OVER DENSE VEGETATION, STRAW OR OTHER COVER. PLACE BAG OVER OPEN GRADED STONE TO ACHIEVE MAXIMUM FILTRATION AND DRAINAGE. INSERT DISCHARGE HOSE FROM PUMP INTO D2 DEWATERING BAG A MINIMUM OF SIX INCHES AND TIGHTLY SECURE WITH THE ATTACHED STRAP TO PREVENT WATER FROM FLOWING OUT OF THE UNIT WITHOUT BEING FILTERED. IF USING OPTIONAL ABSORBENTS, PLACE ABSORBENT BOOM INTO THE D2 DEWATERING BAG. CLIP ABSORBENT BOOM TO TETHER PROVIDED INSIDE THE UNIT.

MAINTENANCE: REPLACE THE UNIT WHEN ½ FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT WHEN NEAR SATURATION.

DEWATERING DETAIL AND SIZE CHART

CITY OF WESTFIELD, INDIANA

4/1/14
DATE
FIGURE EC-11

CITY of WESTFIELD
EROSION CONTROL DETAILS

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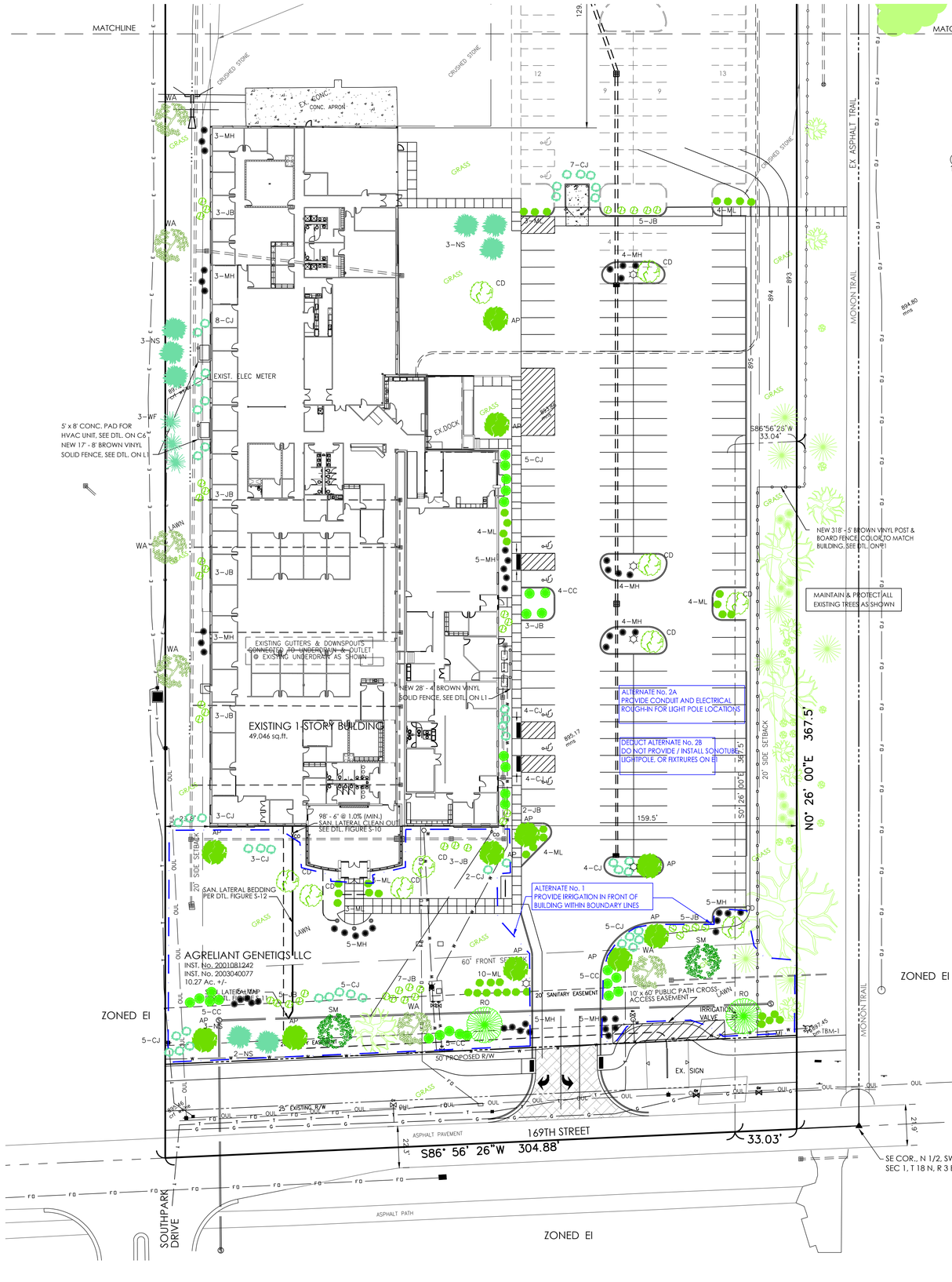
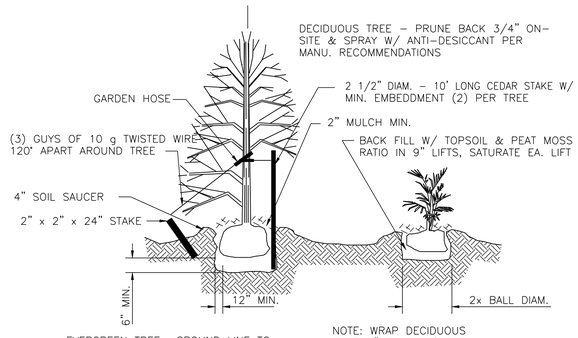
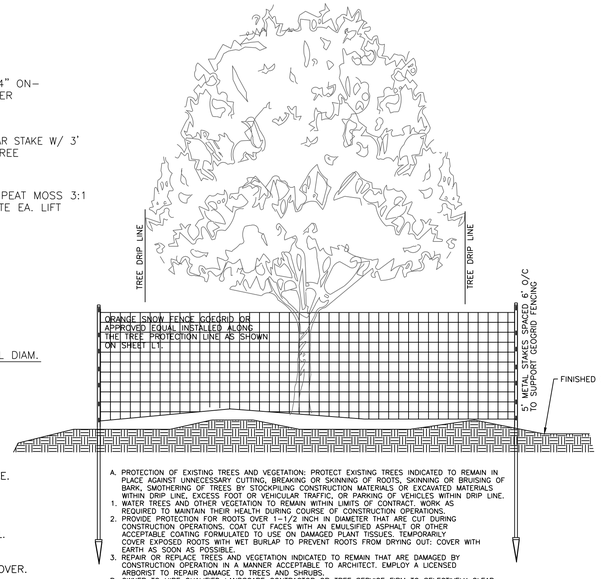




NOTES.
1. FOR POORLY DRAINED SOILS PLANT ROOT BALL 1/3 ABOVE EXISTING GRADE.
2. SLOPE GRADE AWAY FROM ROOTS TO 2x DIAMETER OF ROOT BALL.
3. ROOT FLARE TO BE PLANTED @ GROUND LEVEL ON ALL TREES.
4. TRUNK WRAP SENSITIVE TREES. ONLY.
5. WATER TREES WITH 1 1/2" OF WATER @ TIME OF PLANTING.
6. BACKFILL TO 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 / L1.1



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 / L1.1

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.	65	
ML	SYRINGA PATULA	MISS KIM LILAC	18"	BALL & BURLAP	3' o.c.	40	
CJ	JUNIPERUS CHINESIS	COMAPCT JUNIPER	18"	BALL & BURLAP	3' o.c.	61	
CC	CONTONEASTER APICULATUS	CRANBERRY COTTONEASTER	18"	BALL & BURLAP	3' o.c.	38	
JB	BERBERIS THUNBERGII	JAPANESE BARBERRY	18"	BALL & BURLAP	3' o.c.	57	
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	15	
AP	PRYUS CALLERYANA	ARISTOCRAT PEAR	2" cal.	WIREBALL	AS SHOWN	16	
WF	ABIES CONCOLOR	WHITE FIR	6' HIGH	BALL & BURLAP	AS SHOWN	8	
NS	PICEA ABIES	NORWAY SPRUCE	6' HIGH	BALL & BURLAP	AS SHOWN	13	

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

ALTERNATE No. 1 PROVIDE IRRIGATION IN FRONT OF BUILDING WITHIN BOUNDARY LINES

ALTERNATE No. 2A PROVIDE CONDUIT AND ELECTRICAL ROUGH-IN FOR LIGHT POLE LOCATIONS

DEDUCT ALTERNATE No. 2B DO NOT PROVIDE / INSTALL SONOTUBE, LIGHTPOLE, OR FIXTRURES ON E1

THIS PLAN TO BE USED FOR PHASE 1 LANDSCAPING PURPOSES ONLY. REFER TO OTHER SHEETS FOR ALL DIMENSIONS AND/OR CONSTRUCTION SPECIFICATIONS

PROPOSED LEGEND

- 1' CONTOUR LINE
- 5' CONTOUR LINE
- UNDERGROUND FIBER OPTIC
- PROPOSED UNDERGROUND ELECTRIC
- WOOD PRIVACY FENCE
- 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

- EXISTING GAS LINE
- PROPERTY LINE
- ADJOINER/SECTION LINE
- RIGHT-OF-WAY LINE
- CENTERLINE
- SETBACK LINE
- EASEMENT
- EXISTING OVERHEAD UTILITY LINES
- EXISTING UNDERGROUND PHONE & COMMUNICATIONS
- 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

LANDSCAPING PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

NORTH

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

DATE	ISSUE
2-09-2014	PRE-FILING CONFERENCE
2-26-2014	WESTFIELD - DP SUBMITAL
4-13-2014	PLAN COMMISSION APPROVAL
4-16-2014	DUMPSTER & LANDSCAPING REV.

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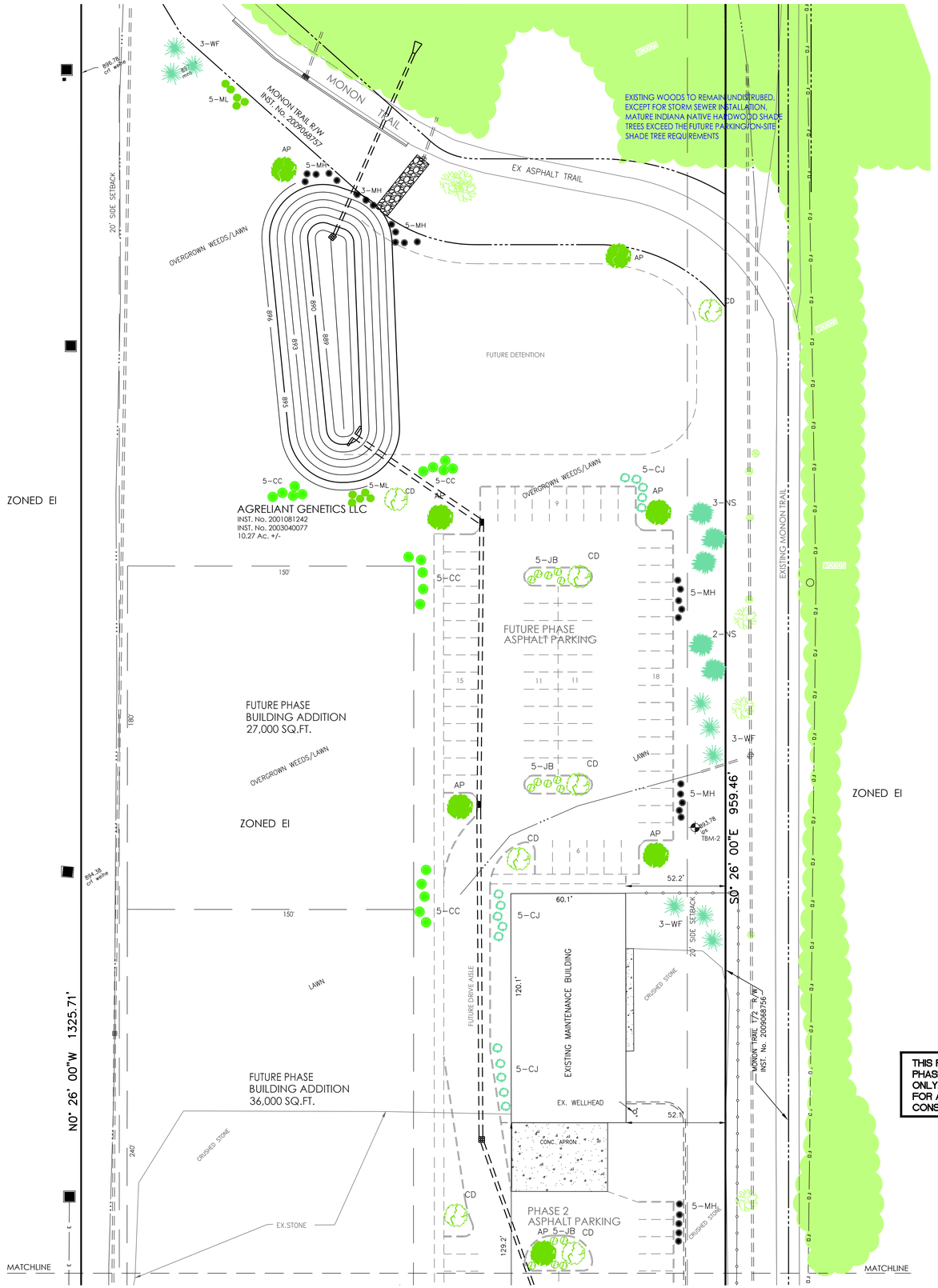
CHECKED BY: ALD

PROJECT No. 1410-059

SHEET No. L1.1



THIS PLAN TO BE USED FOR PHASE 1 LANDSCAPING PURPOSES ONLY. REFER TO OTHER SHEETS FOR ALL DIMENSIONS AND/OR CONSTRUCTION SPECIFICATIONS

Diagram 1: Bicycle Rack Type.

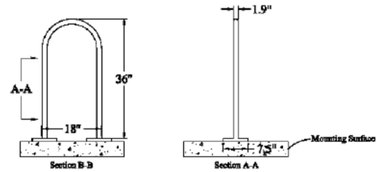
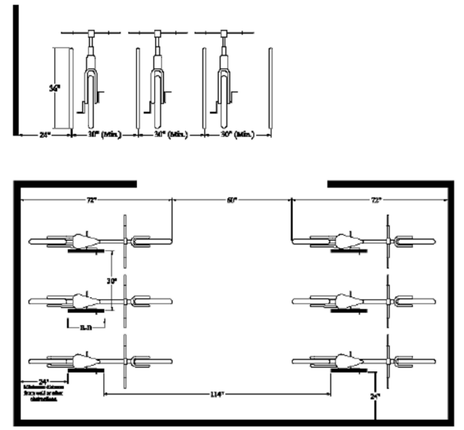


Diagram 2: Bicycle Parking Location and Design.



BICYCLE RACK DETAIL
NOT TO SCALE
1 / L1.2

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.	65	
ML	SYRINGA PATULA	MISS KIM LILAC	18"	BALL & BURLAP	3' o.c.	40	
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NS	PICEA ABIES	NORWAY SPRUCE	6' HIGH	BALL & BURLAP	AS SHOWN	13	

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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

LANDSCAPING PLAN

GRAPHIC SCALE

0 30 45 60 90 150

(IN FEET)
1 inch = 30 ft.

NORTH

JAMES P. McCANN REGISTERED PE860332 STATE OF INDIANA PROFESSIONAL ENGINEER

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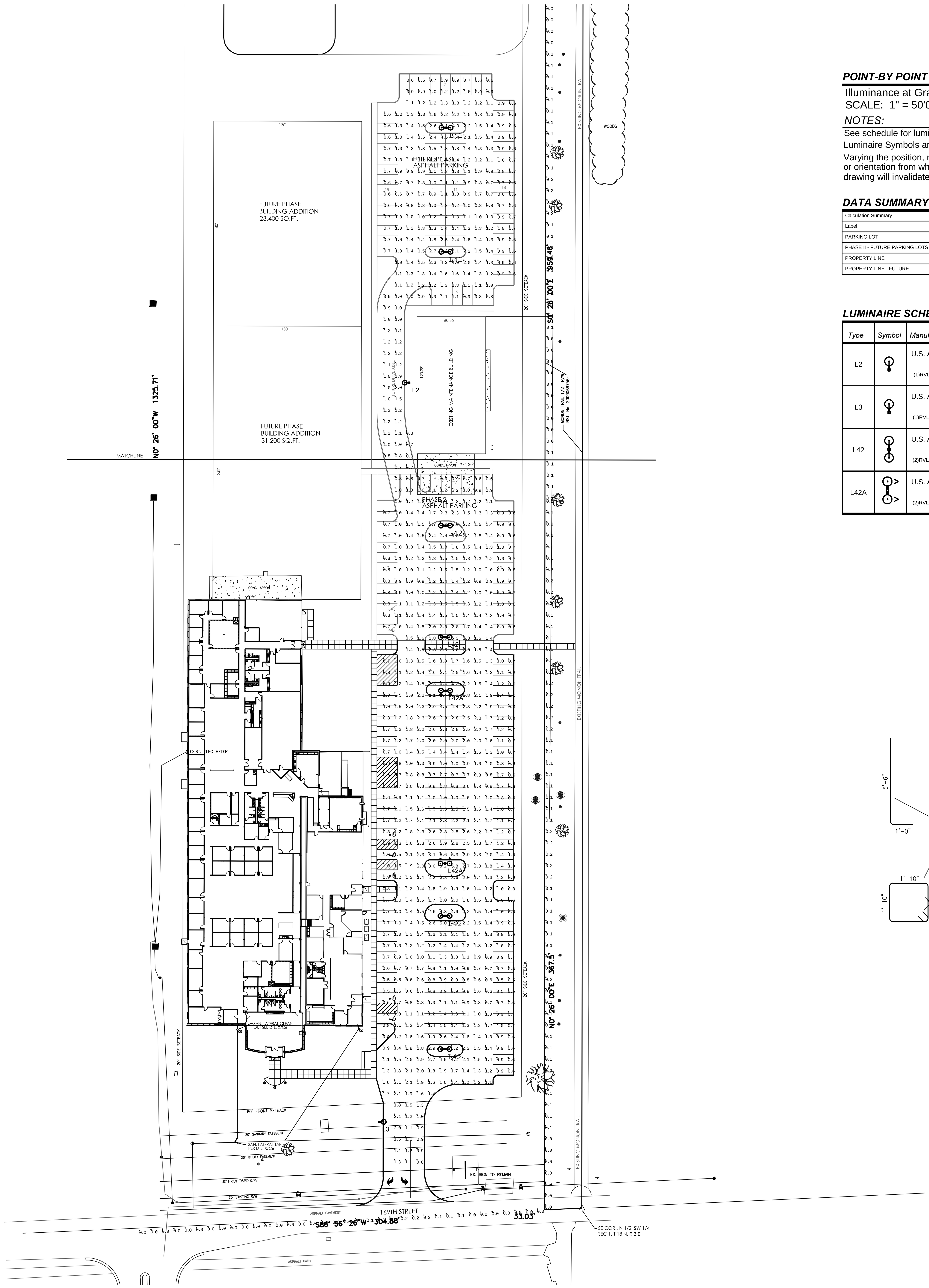
CHECKED BY: ALD
PROJECT No. 1410-059
SHEET No. L1.2



POINT-BY POINT CALCULATION

Illuminance at Grade (Footcandles)
SCALE: 1" = 50'0"

NOTES:

See schedule for luminaire specifications.
Luminaire Symbols are not to scale.
Varying the position, mounting height, or orientation from what is specified in this drawing will invalidate the calculation performed.

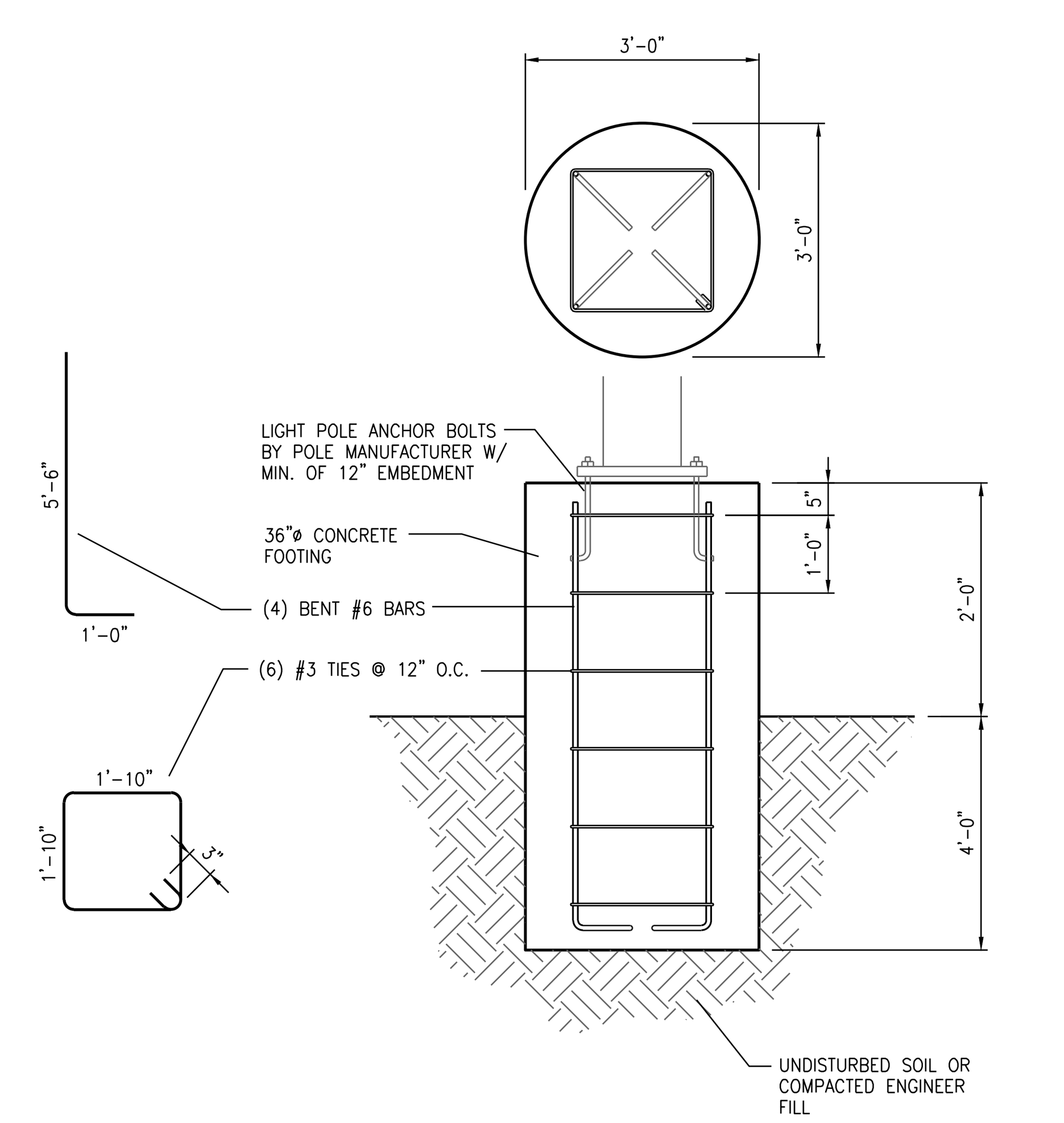
U.S. ARCHITECTURAL LIGHTING
Applications Department
660 West Avenue O
Palmdale, CA 93551
(661) 233-2000, Fax: (661)-233-2001
EMAIL: applications@usaltg.com

DATA SUMMARY

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING LOT	Illuminance	Fc	1.50	6.4	0.5	3.00	12.80
PHASE II - FUTURE PARKING LOTS	Illuminance	Fc	1.27	5.5	0.6	2.12	9.17
PROPERTY LINE	Illuminance	Fc	0.09	0.2	0.0	N.A.	N.A.
PROPERTY LINE - FUTURE	Illuminance	Fc	0.07	0.2	0.0	N.A.	N.A.

LUMINAIRE SCHEDULE

Type	Symbol	Manufacturer / Catalog #	Description	Lamp Description	LLF	# of Type
L2		U.S. ARCHITECTURAL LIGHTING (1)RVL25-II-120VLED-NW-350	Pole Mounted, 25'0" Above Grade. Type II LED / Refractor Array Module (VLED). Clear, Flat Glass Lens. Single Luminaire Pole. Orient as Shown In Plan.	120 Luxeon T LED Emitters at 350mA Neutral White (4000K) 130 Input Watts	0.90	1 Tot.
L3		U.S. ARCHITECTURAL LIGHTING (1)RVL25-III-120VLED-NW-350	Pole Mounted, 25'0" Above Grade. Type III LED / Refractor Array Module (VLED). Clear, Flat Glass Lens. Single Luminaire Pole. Orient as Shown In Plan.	120 Luxeon T LED Emitters at 350mA Neutral White (4000K) 130 Input Watts	0.90	1 Tot.
L42		U.S. ARCHITECTURAL LIGHTING (2)RVL25-IV-120VLED-NW-350	Pole Mounted, 25'0" Above Grade. Type IV LED / Refractor Array Module (VLED). Clear, Flat Glass Lens. Twin Luminaires @ 180°. Orient as Shown In Plan.	120 Luxeon T LED Emitters at 350mA Neutral White (4000K) 130 Input Watts	0.90	6 Tot.
L42A		U.S. ARCHITECTURAL LIGHTING (2)RVL25-IV-120VLED-NW-350	Pole Mounted, 25'0" Above Grade. Type IV LED / Refractor Array Module (VLED). Clear, Flat Glass Lens. Optics Rotated +/-90°. Twin Luminaires @ 180°, Parallel Throw. Orient as Shown In Plan.	120 Luxeon T LED Emitters at 350mA Neutral White (4000K) 130 Input Watts	0.90	2 Tot.



LIGHT POLE FOUNDATION DETAIL (1/E1)
NOT TO SCALE

EXTERIOR LIGHTING PLAN

NORTH

GRAPHIC SCALE
0 30 45 60 90 150
(IN FEET)
1 inch = 30 ft.

DATE	ISSUE
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PROJECT No. 1410-059
SHEET No. E1

Cimarron LED

(http://www.spauldinglighting.com/content/products/images/large/cim_ch1_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/CL-90L-4K-2A.IES)

(http://InputC3Ffiler3DCL190L-4K-2A.IES26imag3Dima26curr3DCL190L-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/)

JOIN THE CONVERSATION!

(HTTPS://WWW.FACEBOOK.COM/PAGESLIGHTING/400539826656129)

(HTTP://TWITTER.COM/HUBBELL_LTG)

(HTTP://WWW.LINKEDIN.COM/COMPANYLIGHTING)

(HTTP://WWW.YOUTUBE.COM/USER/HU

… 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.

SHARE (HTTP://WWW.ADDTHIS.COM/BOOKMARV=300&PUBID=RA-512D394440F2BE15)

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)
Dual-Lite (http://www.dual-lite.com)
Hubbell Building Automation, Inc. (http://www.hubbell-automation.com)
Hubbell Industrial (http://www.hubbellindustrial.com)
Hubbell Outdoor (http://www.hubbelloutdoor.com)
Kim Lighting (http://www.kimlighting.com)
Kurt Versen (http://www.kurtversen.com)
Litecontrol (http://www.litecontrol.com)
Precision-Paragon [P2] (http://www.p-2.com)
Prescolite (http://www.prescolite.com)
Progress Lighting (http://www.progresslighting.com)
Security Lighting (http://www.securitylighting.com)
Spaulding Lighting (http://www.spauldinglighting.com)
Sportsliter Solutions (http://www.sportslighting.com)
Sterner Lighting (http://www.sternerlighting.com)
Whiteway (http://www.whiteway-ltg.com)

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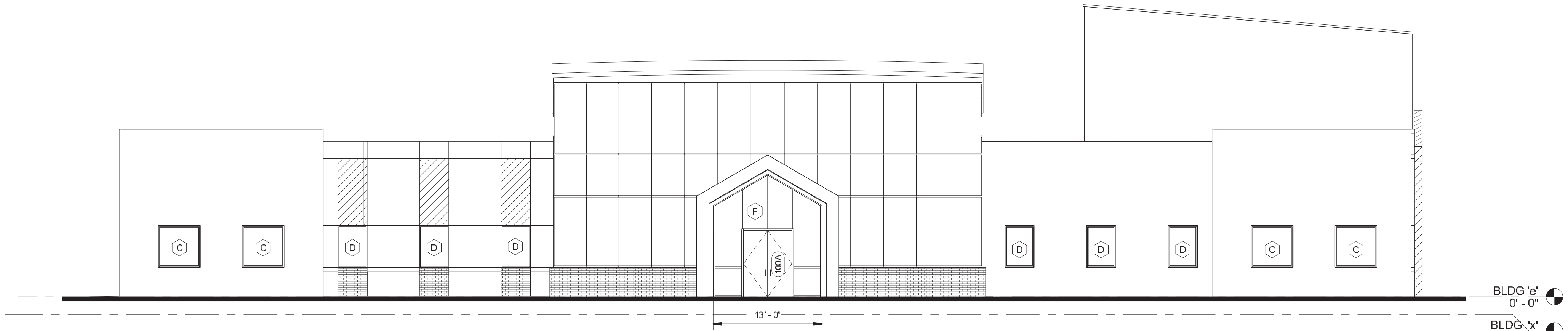
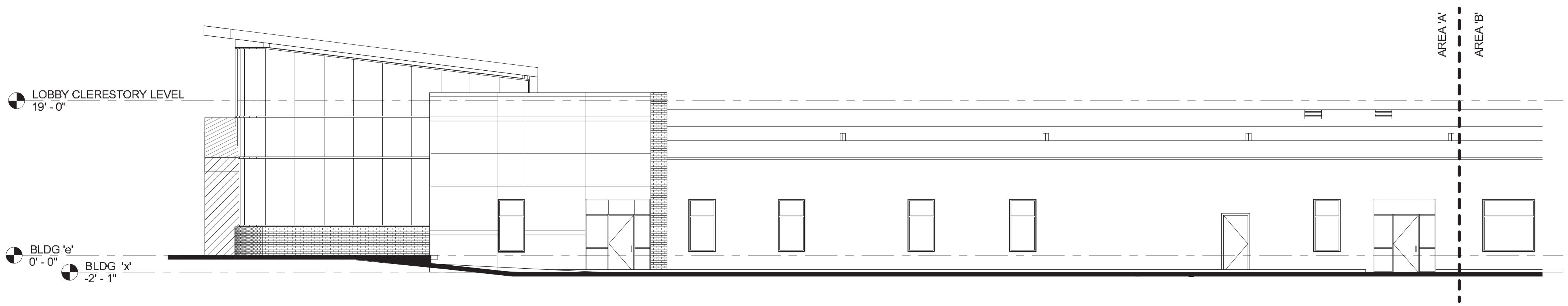


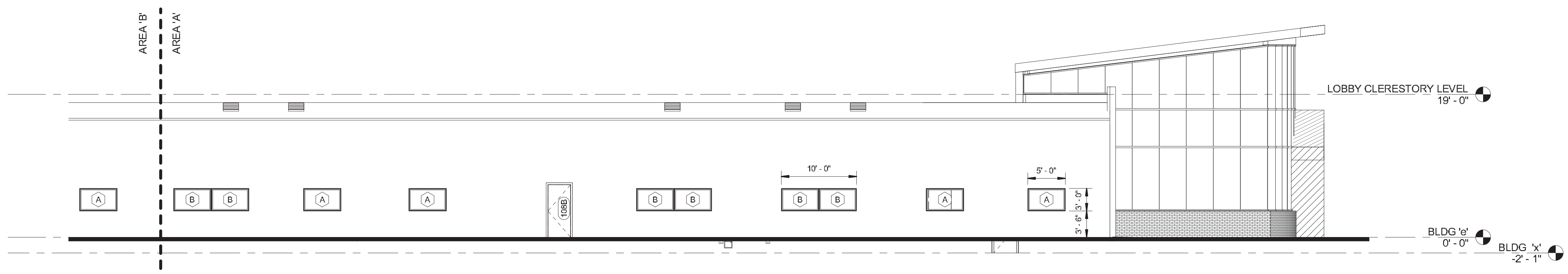
3 SOUTH ELEVATION - AREA 'A' / BLDG 'e/x'

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"

EXTERIOR ELEV./SECT./DETAILS LEGEND

NOT IN CONTRACT

EXISTING WALL OR ITEM TO REMAIN

X#.## NEW FLOOR TO CEILING PARTITION REFER TO 1/G001

X#.## NEW FLOOR TO DECK PARTITION REFER TO 2/G001

X#.## NEW PARTIAL HEIGHT PARTITION REFER TO 3/G001

X#.## NEW 1 HOUR RATED PARTITION REFER TO 4/G001

X#.## NEW 2-HOUR RATER PARTITION REFER TO 5/G001

GEN. EXTERIOR ELEV./SECT./DET. NOTES

A. REFER TO SHEET G-101 FOR DOOR TYPES AND WALL DETAILS
B. DOORS NOT INDICATED BY A DOOR NUMBER DESIGNATION ARE EXISTING.
C. CONTRACTOR TO PROVIDE BUILDING WINDOW BLINDS. RE-USE EXISTING WHERE APPLICABLE.
D. PREPARE ALL EXISTING WALLS AND FLOORS TO RECEIVE NEW FINISHES. PATCH AND REPAIR AS REQUIRED.
E. PROVIDE BLOCKING IN WALLS TO ACCOMMODATE ALL CASEWORK AND WALL MOUNTED EQUIPMENT.

EXTERIOR ELEV./SECT./DET. KEYNOTES

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AGRELIANT GENETICS, LLC.
AGRELIANT CORPORATE HEADQUARTERS
1122 EAST 169TH STREET WESTFIELD, IN 46074

PRELIMINARY SET

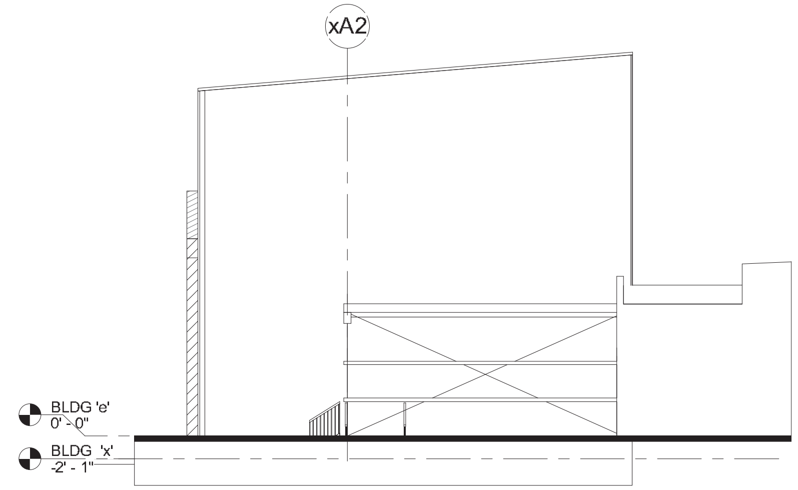
ALL IDEAS, DESIGNS AND PLANS INDICATED OR PREPRESENTED BY THESE DRAWINGS ARE OWNED BY, AND THE PROPERTY OF MITSCH DESIGN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE JOB SITE. ALL RIGHTS RESERVED, EXCEPT FOR USES EXPRESSLY PERMITTED IN WRITING.

12.19.14 PRELIMINARY SET
DATE PRICING SET
DATE STATE SUBMITAL SET
DATE CONSTRUCTION SET

DRAWN BY: RH
CHECKED BY: KC
MD PROJECT #: 14023

EXTERIOR ELEVATIONS

A401-A

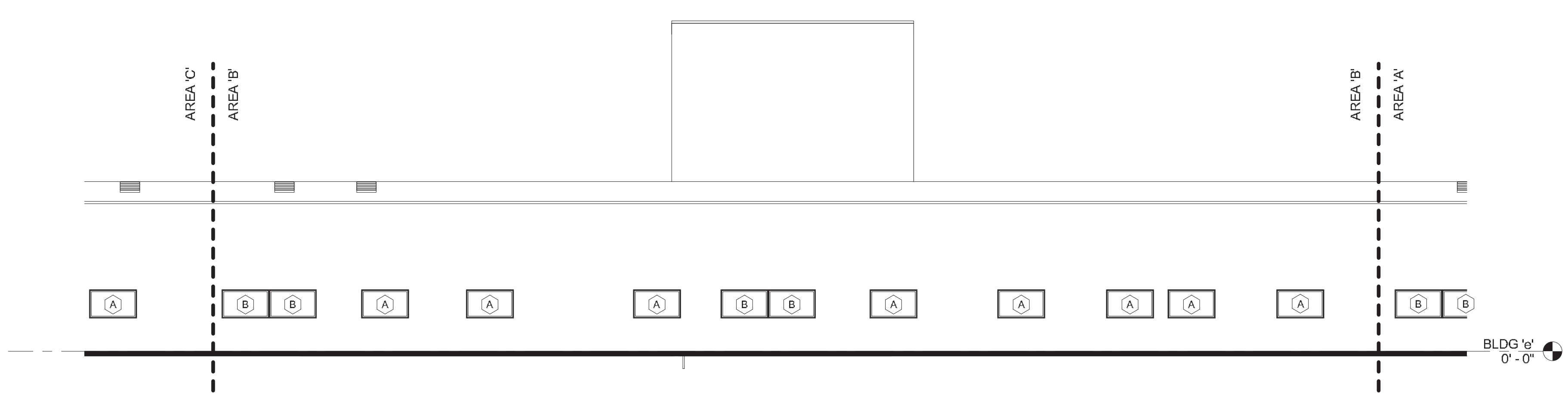


3 NORTH ELEVATION - AREA 'B' / BLDG 'x'

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

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

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



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

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

EXTERIOR ELEV./SECT./DETAILS LEGEND

	NOT IN CONTRACT
	EXISTING WALL OR ITEM TO REMAIN
X#.##	NEW FLOOR TO CEILING PARTITION REFER TO 1/G001
X#.##	NEW FLOOR TO DECK PARTITION REFER TO 2/G001
X#.##	NEW PARTIAL HEIGHT PARTITION REFER TO 3/G001
X#.##	NEW 1 HOUR RATED PARTITION REFER TO 4/G001
X#.##	NEW 2-HOUR RATER PARTITION REFER TO 5/G001

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EXTERIOR ELEV./SECT./DET. KEYNOTES

mitsch DESIGN
200 s rangeline road
suite 213
carmel, indiana 46032

ph 317.573.2222
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www.mitschdesign.com

AGRELIANT GENETICS, LLC.
AGRELIANT CORPORATE HEADQUARTERS
1122 EAST 169TH STREET WESTFIELD, IN 46074

PRELIMINARY SET

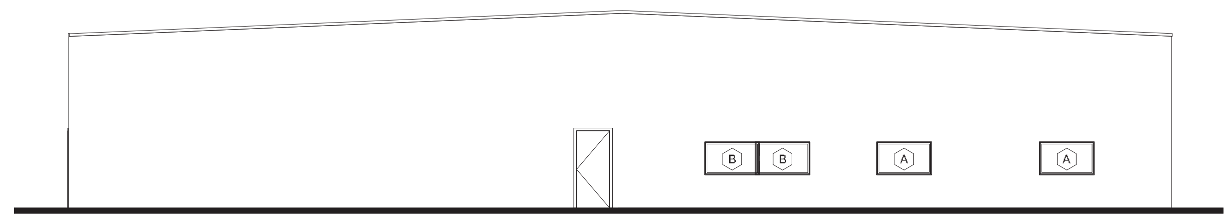
ALL IDEAS, DESIGNS AND PLANS INDICATED OR PREPRESENTED BY THESE DRAWINGS ARE OWNED BY, AND THE PROPERTY OF MITSCH DESIGN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS ON THE JOB SITE. ALL RIGHTS RESERVED, EXCEPT FOR USES EXPRESSLY PERMITTED IN WRITING.

12.19.14 PRELIMINARY SET
DATE PRICING SET
DATE STATE SUBMITAL SET
DATE CONSTRUCTION SET

DRAWN BY: RH
CHECKED BY: KC
MD PROJECT #: 14023

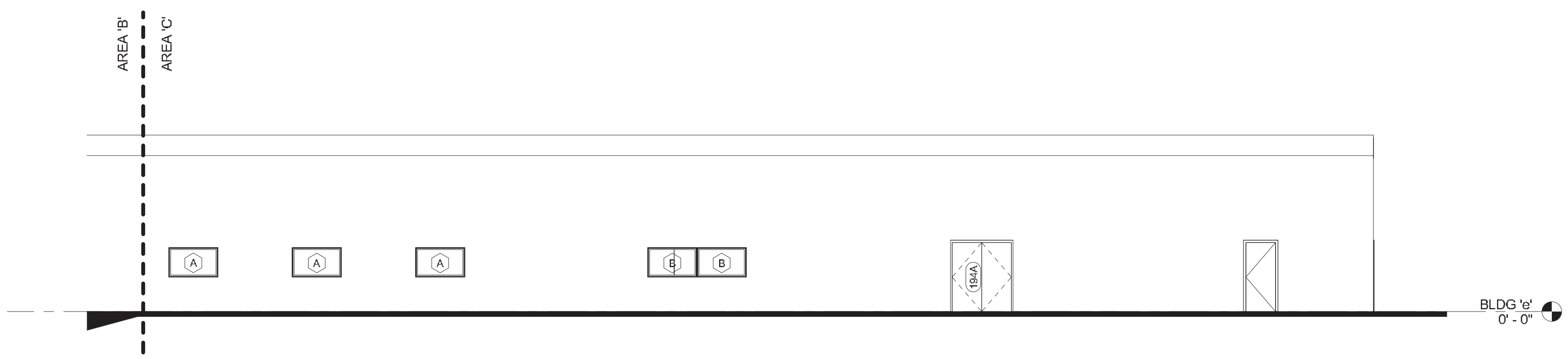
EXTERIOR ELEVATIONS

A401-B



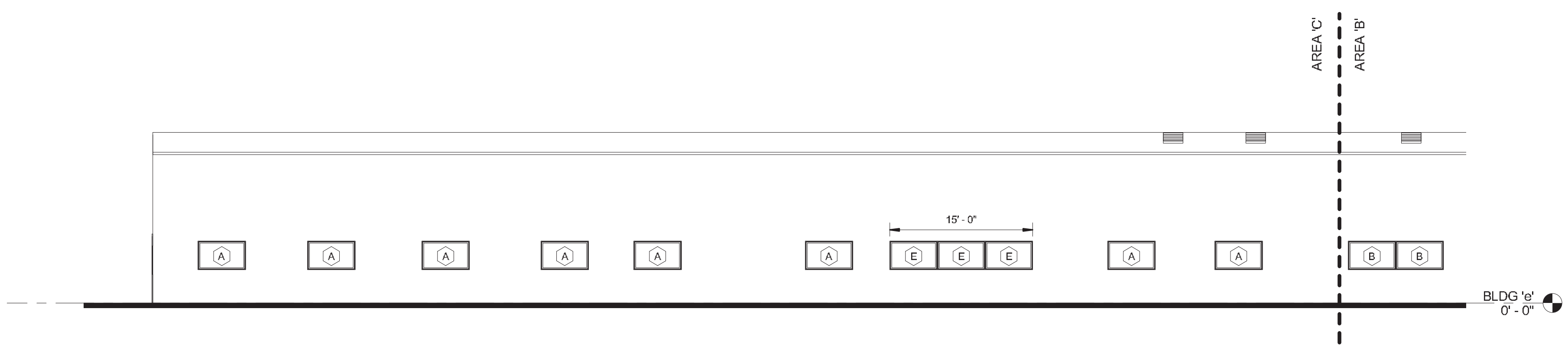
3 NORTH ELEVATION - AREA 'C' / BLDG 'e'

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



2 EAST ELEVATION - AREA 'C' / BLDG 'e'

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



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

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

EXTERIOR ELEV./SECT./DETAILS LEGEND

NOT IN CONTRACT

EXISTING WALL OR ITEM TO REMAIN

X#.## NEW FLOOR TO CEILING PARTITION REFER TO 1/G001

X#.## NEW FLOOR TO DECK PARTITION REFER TO 2/G001

X#.## NEW PARTIAL HEIGHT PARTITION REFER TO 3/G001

X#.## NEW 1 HOUR RATED PARTITION REFER TO 4/G001

X#.## NEW 2-HOUR RATER PARTITION REFER TO 5/G001

GEN. EXTERIOR ELEV./SECT./DET. NOTES

A. REFER TO SHEET G-101 FOR DOOR TYPES AND WALL DETAILS
B. DOORS NOT INDICATED BY A DOOR NUMBER DESIGNATION ARE EXISTING.
C. CONTRACTOR TO PROVIDE BUILDING WINDOW BLINDS. RE-USE EXISTING WHERE APPLICABLE.
D. PREPARE ALL EXISTING WALLS AND FLOORS TO RECEIVE NEW FINISHES. PATCH AND REPAIR AS REQUIRED.
E. PROVIDE BLOCKING IN WALLS TO ACCOMMODATE ALL CASEWORK AND WALL MOUNTED EQUIPMENT.

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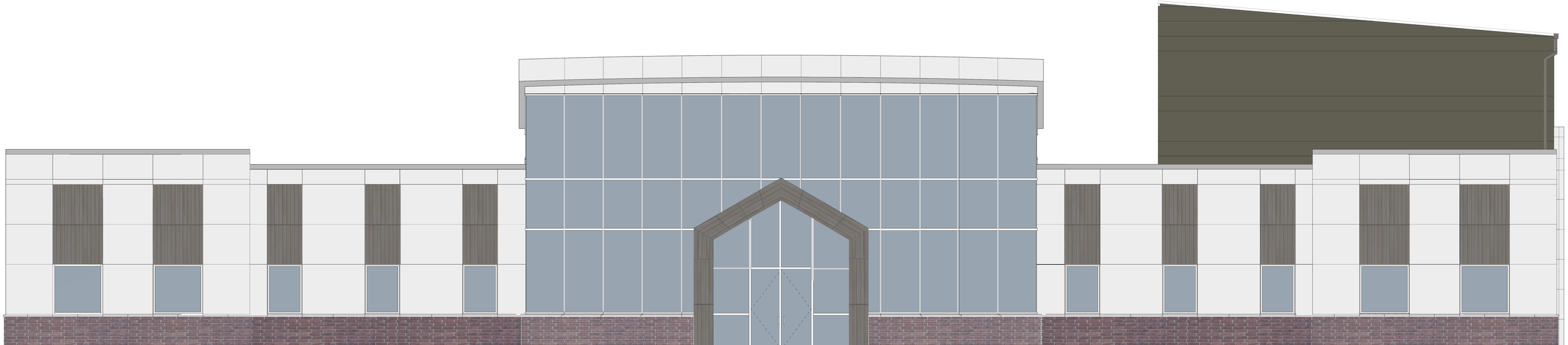
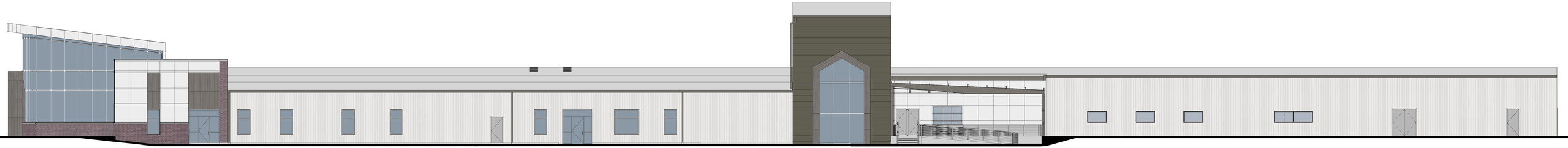
EXTERIOR ELEVATIONS

A401-C





CSI SIGNS {ARTWORK/SIGN INFO APPROVAL}

Amber Willis | office: 317-867-2737 x4000 | cell: 317-473-4322 | fax: 317-867-2737 | amber@csi-signs.com

MM

Date: 02.27.2015

Version: 01

Approved by:_____

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FILE PATH: Mitsch Design/AgReliant Building/Building Sign/AgReliantBldg_wl01.ai

COLOR VALUES	SIGN INFORMATION
	Qty: 1 Facelit, Channel Letters Flush Mount to Bldg Black Sides

Mitsch Design | AgReliant Building Sign