

# PLAN COMMISSION STAFF REPORT

**To:** Members of the Plan Commission

**From:** Tom Vander Woude, Planning Director

Meeting Date: September 14, 2021

Agenda Item: PC Docket No. 20-009

Hearing: CONTINUED PUBLIC HEARING

Application Type: DEVELOPMENT PLAN

**Summary:** Guy Costanza/GM Contracting requesting approval of a development plan for a

commercial development at 407-411 Ridge Road.

**Applicant:** Guy Costanza/GM Contracting

**Property Address:** 407-411 Ridge Road

**Current Zoning:** CD-5 Urban Center Character District

Adjacent Zoning: North: CD-5

South: CD-5 East: CD-5

West: NICTD/Monon ROW

Action Requested: Approve Development Plan

Additional Actions Required: Findings of Fact

Approval of Final Plat

Staff Recommendation: <u>Approve with conditions</u>

Attachments: Ridge Café Addition plan set prepared by Torrenga

Engineering revised 06.15.2021

Landscape plan prepared by Hubinger Landscaping revised 07.20.2021

Photometric plan prepared by KSA Lighting and Controls dated

01.08.2021

Exterior Elevations prepared by Rohn Associates dated 09.2.2021

## **BACKGROUND**

Staff has provided multiple staff reports documenting the proposed project.

The project has received the following variances:

Standard	Requirement	Proposed
Side setback	0'-24'	77'
Frontage buildout	80%	Approx. 39%
Entrances	Front Façade	East side of building
Building height	Two stories	One story
Off street parking	42 parking spaces	31 parking spaces
Setback*	20' planting strip	0' planting strip
Setback*	35' front building setback	0' setback

<sup>\*</sup>Required under former zoning standards that have been changed to no longer require the variances.

The applicant appeared at a continued public hearing in August 2021 to present the most recent plans. The site plan, landscaping plan, lighting and photometric plans all comply with the standards of the Munster zoning ordinance or the applicable variances. The architectural plans had not been reviewed prior to the meeting and the petition was tabled to allow time for staff review. Subsequent to the meeting, staff reviewed the plans and provided comments.

Per the project architect, the following revisions were made:

- raised building roof lines to make building appear taller and closer to a two story look. Making
  the building any taller than this would not look correct. This design was discussed in the past and
  were told that this would suffice
- extended stone base on east and west elevations
- added metal canopy at south elevation
- added additional windows with fabric awnings at west and north elevation
- changed rear doors on north elevation to be full lite storefront doors with a fabric awning above
- primary materials are still stone and brick with architectural accent wall panels above storefront at tower. We do not use any prohibited materials. Wall panels can be seen in many newer building in the Town of Munster
- vertical dimensions added
- We did not add a stone base at the tower portion. This would not look architecturally correct for this building style. The entire lower storefront serves as the base, the architectural wall panels is the middle and the upper clerestory windows and coping are the cap
- The front of the building is parallel with the property line. (the SE and SW corners are not 90 degrees)

Staff notes that the following items need to be addressed:

1. It was the understanding of the staff that the BZA had wanted a building that appeared to be two stories. This building is tall, but it does not appear to be two stories. This is to be determined by the Plan Commission.

- 2. The façade must be based approximately either on (a) proportions that can be expressed as a fraction using whole numbers (e.g. 1:1, 2:1, 3:2, 4:3, etc) or (b) the following proportions: 1.414:1 or 1.618:1. This is height to width ratio. This has not been confirmed.
- 3. A storefront building in the Munster code is required to have a 12"-24" kneewall.
- 4. The west façade is at least 20% void (windows + doors). This has not been confirmed.
- 5. Windows on the west and east are to be spaced less than 20 feet apart, i.e. there are no 20 feet wide blank walls. This has not been confirmed.
- 6. Since the building is built on the west and south lot line, it appears that the doors, eaves, sconces, and awnings will encroach onto the public right-of-way or adjacent properties. This has not been confirmed.

Apart from comment 1, staff believes that an approval can be granted for the project conditioned upon a final staff review.

### RECOMMENDATION

The Plan Commission may wish to consider the following motion:

Motion to approve PC Docket No. 20-009 subject to a final staff review of the building design to ensure compliance with the relevant zoning standards listed in this staff report.

# RIDGE CAFE ADDITION

# TO THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA

	INDEX
PAGE	DESCRIPTION
COVER	TITLE PAGE
C-1.0	EXISTING TOPOGRAPHY & UTILITIES
C-2.0	SITE PLAN
C-3.0	GRADING & UTILITIES PLAN
C-4.0 TO C-4.1	DETAILS & SPECIFICATIONS
C-5.0	STORM WATER POLLUTION PREVENTION PLAN
C-6.0 TO C-6.1	SWPPP DETAILS & SPECIFICATIONS

### LEGAL DESCRIPTION:

### PARCEL 1:

Lot 6, except all that part of said Lot 6, lying North of the South line of the North 480.5 feet, by parallel lines of said Lot 6, and also except the Easterly 65 feet, as measured along Ridge Road, of the remaining portion of said Lot 6, in Peter Jabaay's Subdivision of part of Section 13 and 24, Township 36 North, Range 10 West of the 2nd P.M. in Lake County, Indiana, as same appears of record in Plat Book 4, Page 28 in the Recorder's Office of Lake County, Indiana,

### PARCEL 2:

The Easterly 65 feet as measured along Ridge Road of the Southerly 200 feet of Lot 6, as marked and laid down on the recorded plat of Peter Jabaay's Subdivision in Section 13 and 24, Township 36 North, Range 10 West of the Second Principal Meridian, in the Town of Munster, Lake County, Indiana, as the same appears of record in Plat Book 4, Page 28, in the Recorder's Office of Lake County, Indiana.







NOTE: THESE PLANS ARE GOVERNED BY THE MOST CURRENT INDIANA DEPARTMENT OF TRANSPORTATION SPEFICATIONS.



CERTIFIED BY: DONALD C. TORRENGA P.E. # 19868







"IT'S THE LAW"

CALL 2 WORKING DAYS BEFORE YOU DIG

811 OF 1-900-382-50 DIG

CALL TOLL FREE

PER INDIANA STATE LAW ICB-1-26.
IT IS AGAINST THE LAW TO EXCAVATE
HOTHOUT NOTIFINEN THE UNDERFOOUND
LOCATION SERVICE INVO (2) WORKING
DAYS BEFORE COMMENCING WORK.

County:	Lake	
_//W Ob-, 8ec	24 , T. 36 N. R 10	. W.
Township:	NORTH	_

### Date and Revisions:

7	06-15-2021	UNDERGROUND DETENTION REVISIONS	RAT/DCT
6	01-26-2021	SITE PLAN REVISIONS	RAT/DCT
5	01-06-2021	STORM SEWER REVISIONS	RAT/DCT
4	11-25-2020	DETENTION REVISIONS	RAT/DCT
3	04-10-2020	DRAINAGE REVISIONS	RAT/DCT
2	12-31-2019	DRAINAGE REVISIONS	RAT/DCT
1	11-27-2019	PRELIMINARY SUBMITTAL	RAT/DCT
NO.	DATE	DESCRIPTION	BY

CLIENT/DEVELOPER:

G.M. Contracting 1001 Perthshire Lane Dyer, Indiana 46311 Ph: 219-682-7610

### **ENGINEER:**

Torrenga Engineering, Inc. 907 Ridge Road Munster, Indiana 46321

Ph.: (219) 836-8918 Fax: (219) 836-1138

Job No.: 2019-5034



SOIL MAP

Soil Survey Area: Lake County, Indiana Survey Area Data: Version 22, Sep. 16, 2019

Date cerial images were photographed: Aug 28, 2019 -Oct 9, 2019 SOIL TYPE LEGEND
PIB - Plainfield fine sand, 0 to 6 percent slopes

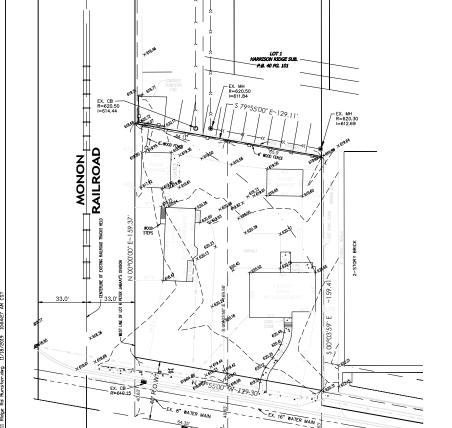


VICINITY MAP









RIDGE

ROAD

- NOTES: 1. TOTAL SITE AREA =  $0.495\pm$  ACRES (21,579 $\pm$  S.F.)
- THIS PROPERTY IS LOCATED IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODFLAIN, AS TAKEN FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR MUNSTER, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0109E, EFFECTIVE DATE JANUARY 18, 2012.
- DEVELOPER:
   G.M. CONTRACTING
   1001 PERTHSHIRE LANE
   DYER, IN 46311
- 4. ALL VERTICAL DATUM IS BASED ON NAVD88.
- HYDROLOGIC UNIT CODES: 07120003030060 LITTLE CALUMET RIVER INDIANA/ILLINOIS LINE
- LOCATION: LATITUDE 41'33'46" N LONGITUDE 87'31'05" W
- 7. CURRENT ZONING: CD-5 URBAN CENTER

### LEGEND:

EXISTING WATER MAIN SHUT OFF

 $\mathbf{x}$ WATER HYDRANT

CATCH BASIN 0

MANHOLE

+ 600 EXISTING ELEVATION BARRIER CURB BUILDING LINE

- - EASEMENT LINE

- BOUNDARY PROPERTY LINE ---- SANITARY SEWER

---- WATER MAIN — → → STORM SEWER 

INC.

RRENGA ENGINEERING, I CONSULTING ENGINEERS & LAND SURVEYORS 907 RIDGE ROAD, MUNSTER, INDIANA 46321 (219) 836-8918 TORRENGA

EXISTING TOPOGRAPHY AND UTILITES RIDGE CAFE ADDITION MUNSTER, INDIANA

4T: Contracting Perthshire L IN 46311 

SHEET C-1.0

SHEET C-2.0

LOT 1 HARRISON RIDGE SUB. **MANOR AVENUE** PROPOSED-ENCLOS MONOM B 6 19.0 (B)GREEN SPACE RIDGE ROAD

## LEGEND:

### PROPOSED

- NUMBER OF PARKING SPACES
- A ASPHALT PAVEMENT
- B BARRIER CURB
- $^{\prime\!\!\!\!H}$  HEAVY DUTY CONCRETE
- TYPICAL CONC. SIDEWALK (See Details)
- CURB-WALK (See Details)
- TRAFFIC FLOW ARROWS

- NOTES: 1. TOTAL SITE AREA = 0.495± ACRES (21,579± S.F.)
- 2. CURRENT ZONING: CD-5 URBAN CENTER
- PARKING

PARKING REQUIRED = 5 SPACES PER 300 SF 2500 SF / 300 SF = 8,3 8.3 \* 5 = 41.5 SPACES = 42 SPACES

PARKING SPACES PROVIDED = 31 SPACES\*

- \* VARIANCE HAS BEEN AQUIRED
- 4. PARKING LOT AREA = 12,000 SQ FT





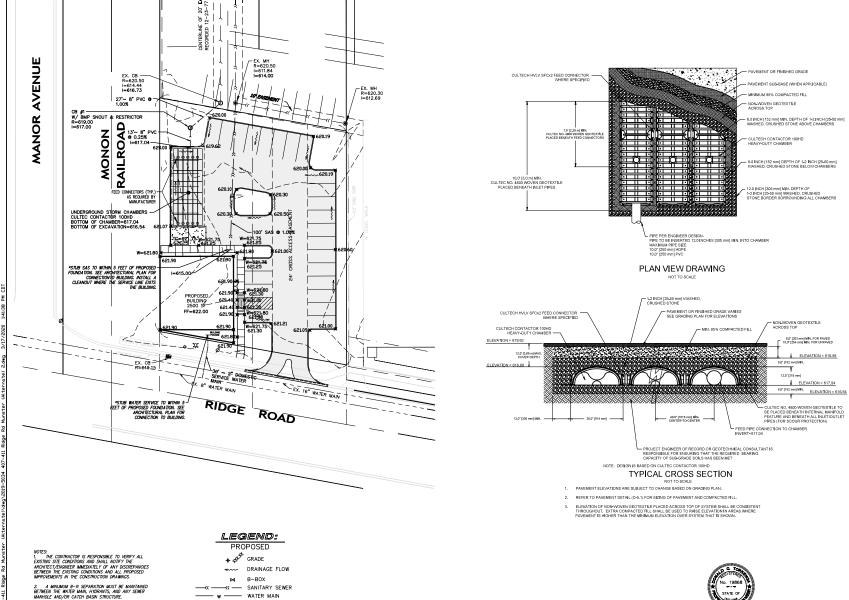


SRADING AND UTILITIES RIDGE CAFE ADDITION MUNSTER, INDIANA

06-15-2021 01-26-2021 01-06-2021 01-05-2020 04-10-2020 03-17-2020

Sontracting Perthshire L IN 46311 38 €

> SHEET C-3.0



ALL PROPOSED ELEVATIONS REPRESENT THE ASPHALT PAYEMENT OR GROUND ELEVATION GRADE UNLESS OTHERWISE NOTED AS W FOR SIDEWALK.

STORM SEWER

TOP OF SIDEWALK





ELEVATION = 618.58

ELEVATION = 617,04

SNOUT CONNECTION DETAIL

NOT TO SCALE

CURB-WALK SECTION

NOT TO SCALE

SHEET

T: Contracting Perthshire L IN 46311 38€

SHEET

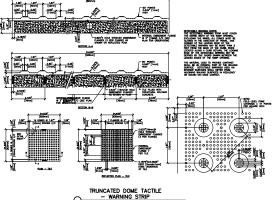


NOTE: YERFY ACTUAL PLAN & ALL DIMENSIONS WITH CIVIL PLANS , Ea, 4.0" , 4.0" ,Ea, 0 12" WATERTABLE CMI 4 STONE BELOU, 5" CMI WITH FINISH ABOVE (EXTERIOR ONLY), MATCH BUILDING DOUBLE HEADED 1000 W FLOOD LIGHT WITH MOTION SENSOR DUMPSTER CONTAINER BY OTHERS NOTE.

1. SEE STRUCTURAL DRAUNGS FOR STRUCTURAL DETAILS

2. ALL DIMPSTER ENCLOSERE EXTERIOR MATERIALS TO MATCHING DAYS EXTERIOR MATERIALS. 2'-0' 21-01 CONCRETE POST FOOTING FOOTING - 6x DIAMETER OF POST NOTIFIE :
ALL ROOTINGS SHALL BE SODD PALCONORITE.
2. BINGLOUNE GATES TO BE TETAL, OPPAGE AND PAINTED TO FAITH IN BOOK PASSE.
3. NITER BOLATE BALL REQUIRED FOR GATE.
3. NITER BOLATE BALL REQUIRED FOR GATE.
5. CONTRACTOR TO VERTY 1 ODTAIN APPROVAL OF ALL MATERIALS WILL DEVELOPERS & BULLOND DEPARTMENT. DUMPSTER ENCLOSURE SECTION A-A SIDEWALK e" Clean-out port n/Hyeaded ud Adulted Flugh with Grade, SECTION B-B CLEAN-OUT NOT TO SCALE WHEN PRACTICAL SERVICES SHALL BE MAINTAINED FOR BASEMENT SERVICE

3" PRE-CAST CAP



- DETECTABLE WARNING SURFACE

(A)

\_\_SIDEWALK -

W/XW/

HANDICAP RAMP

 $\bigcirc$ 

NOT TO SCALE

SAND BACKFILL TO 95% OPTIMU

O SERVICE CONNECTION DETAILS

GENERAL SPECIFICATIONS FOR WATER MAINS

All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, and the State of Indiana.

3. All water mans shall be laid at least 10 feet (\$1.0m) horsontally from any existing or proposed sever. The distance shall be measured from dustide of pipe to outside of pop. All severs crossing water mans shall be laid to provide a menimum vertical distance of 18 inches (for in bettern the outsider of the source, and the outsider of the outsider of the source of the outsider, and as for as possible from the vater man joints. Where a water man crosses under a sever, adverted and structural support ability to the source of the outsider of the vater man when it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and vertical separation as stipulated above, the sever shall be designed and constructed equal to water proper horizontal and the proper horizontal and t

4. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special bacidff material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of bacidfilled areas. The Contractor shall provide special bacidfill material across driveways and sidewalks in the event that a water main is installed undermeath.

6. All water main pipe shall be disinfected by the use of Iquid chlorine. The Contractor shall notify the town of Munster when the water main system (or portion thereof) is ready for testing.

7. The Contractor is responsible for water quality tests done by a State Certified Laboratory. The Town of Munster Water Department staff shall be notified and be present white tests are being performed. The approved water system shall be turned on by the Water Department Staff, only after the water quality reports have been approved.

8. The newly installed water main (or portions thereof) shall be subjected to a pressure and feakage test, using indicates testing. Viet pressure shall not be less than 1.2 Orient the working pressure or exceed pipe desay pressure, and a search of the property of the pressure and the search of the pressure and the search of the pressure of the search of the pressure of the pre

9. The contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pice installed (Le, from manhold to manhole or be to valve, etc.), location of service taps and any structures added or omitted in companion with these engineing pipes. "The Contract shall aughy the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Hans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance.

### 10. All watermain shall be polywrapped.

11. Fire protection service lines and domestic use service lines shall be tapped separately from the water main to allow for shutdown of the domestic service only for non-payment.

### GENERAL SPECIFICATIONS FOR SANITARY SEWER

All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, and the State of Indiana.

2, All sanitary sever pipe, branches and fittings shall conform to one of the following: (a) Extra strength vitrified clay pipe (ASTM G-700) with push on rubber gasket pints (ASTM G-425, (b) Poly-vim) (chipride (PXC), SDR 26 (ASTM G-3034), with push-on rubber gasket pinns (ASTM G-3212). Six inch service pipes shall be in accordance with the infrastructure improvement codes or the Town of Munister.

3. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

4. The competed sanitary sewer system shall be air tested for inflization and shall have a maximum infilization of LIX GRD/Incl/slameter/line of sewer pipe. The completed sanitary sewer system shall be air pressure tested for infilization/editionation with Bics, of pressure for inmuters. The testing shall conform the procedure described in ASTIN C-810-96 for day pipe, ASTIN C-94 for concrete pipe, ASTIN F-117 for poly-only chloride pipe, and not other hardwards test procedures approved by the regulatory seyers, the Contractor shall be prescribed for supplying all testing materials and appurtenances. The Town of Municip shall be notified when the system (or portion thereof) is ready for sessing.

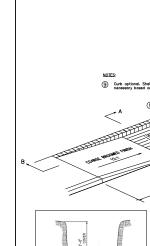
S. Deflection tests shall be performed on all flerible pper materials placed. The contractor shall be responsible for supplying testing materials and apportenances. The tests shall be conducted after the final black'll has been in placed to the supplying testing materials. The state of the supplying testing the state of the supplying testing testing the supplying testing the supplying testing testing the supplying testing the supplying testing testing the supplying testing testing the supplying testing testing the supplying testing test

6. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special bacifill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of bacifiled areas. The contractor shall provide special bacifill material across driveways and sidewalks in the event that a sever or man is installed underneath.

7. All sevens shall be lad at least 10 feet (3.0m) horsontally from any existing or proposed water main. The distance shall be measured edge to edge, All sevens crossiny water mans shall be lad to provide a minimum vertical distance of 13 niches (46 m) or between the outside of the seven. This shall be the case where existence of 15 niches (46 m) or between the outside of the seven. This shall be the case where equiditant and as fer as possible from the water main prints. Where a water main crosses under a seven, adequate structural support shall be provided for the water for water the provided to the water main. When it is impossible to clean proper horstonal and vertical separation as stpulated above, the seven shall be designed and constructed equal to veter print.

9. The Contractor is responsible for the preparation of "As Bull" construction drawings showing actual sizes and lengths of tope installed (i.e., from mainfeld to mainfeld or the town of the contract or size sowice tags and any structures added or crimet or incorpanson with these engineering plans. The Contractor shall supply the Develope (frough the Project Engineer) with one set of propolacible original "As-Bull" Flans and shall supply the Town of Munster with 2 copies thereof prior to an et al. a condition of the final acceptance.





BUILDING SERVICE CONNECTION (COMMON TRENCH SECTION)

NOT TO SCALE

TYPICAL WATER TAP SERVICE PIPING NOT TO SCALE

NOTE: PROVIDE CONCRETE COLLAR IF THE BUFFALO BOX IS LOCATED IN AN ASPHALT

0

ORIFICE PLATE RESTRICTOR 18' X 18' X 1/8' STEEL PLATE ANCHORED INTO STRUCTURE WALL W MIN. 8 ANCHORS, WELD BOLTS TO PLATE GROUT WITH HYDRAULIC GROUT

8'ø PIPE

3.5° DIA. HOLE (SHARP-EDGED) ORIFICE PLATE RESTRICTOR

GENERAL NOTES.

1 THIS ROPERTY IS LOCATED IN FLOOD ZONE 'N' (SHADED) AREAS
DETERMINED TO HE OUTSIDE OF THE O'S! ANNUAL CHANCE FLOODEAIN, AS
TAKIN FROM THE FLOOD INSURANCE RATE MAY FRENCH FORM FOR THE RESTREAMENTE, LAKE
COUNTY, ENDIANA, MAP NUMBER 1898/2010/E, EFFECTIVE DATE HAN 18, 2012.
NO FLOODWAYS OR FLOODEAINS PRINCIPES EAST ON THEIR ROPERTY. HYDROLOGIC UNIT CODES: 07120003030060 LITTLE CALUMET RIVER - INDIANA/ILLINOIS LINE THERE IS NO PRESENCE OF HYDRIC SOILS ON THIS PROPERTY.

WETLAND MAP NOT TO SCALE Source: National Wetlands Inventory

SITE



SOIL MAP

NOT TO SCALE

Source of Map: Natural Resources Conservation Service
Web Soil Survey URE: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Merctor (EPSs.389)

Date cerial images were photographed: Aug 28, 2019 -0ct 9, 2019





+ 100,10

EX. CB — R=620.50 I=614.44 I=616.73

CB #1 W/ BMP SNOUT & RESTRICTOR R=619.00 I=617.00

MON

RAILROAD Z O

DECORATIV

AVENUE

MANOR

- BASKET INLET/CATCH BASIN PROTECTION

- TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)

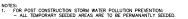
SWPPP LEGEND:



POSTING (RULE 5 NOI & NOS LETTER AND LOCAL SWPPP PERMIT)

**-**• € - GRADES (PROPOSED)

BMP - BMP SNOUT



- STATE OR FEDERAL WATER QUALITY PERMITS ARE REQUIRED FOR THE PROJECT, A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) IDEM RULE 5 WATER QUALITY PERMIT IS REQUIRED.
- THE SITE CONSISTS OF EXISTING HOUSES, PAVED DRIVEWAYS, AND TYPICAL LANDSCAPING FOR RESIDENTIAL AREAS.
- THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY, OR ITS URROUNDING AREAS AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SURADOLINON AREAS AS CLASSIFIED BY THE US HELD AND MULDLIFE
  SURADOLINON AREAS AS CLASSIFIED BY THE US HELD AND MULDLIFE
  DEPARTMENT OF THE INTERIOR. HERE AREA NO LARE, FONDS OR WATER
  COURSES ON THE PROJECT STIF OR ON ADJACENT PROPERTY. HART DITCH
  PLAN CHEEN, IN THE WATER COURSE WHICH THE TOROWAY ATTER PROS THE
  APPROXIMATELY '8 MILE BAST OF THE PROJECT STIE. AND IS CLASSIFIED AS A
  WATER OF THE US, WITH A NUM. COSE.
- POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.
- THERE ARE NO SENSITIVE AREAS ASSOCIATED WITH THIS PROPERTY, OR ITS SURROUNDING AREAS.
- THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS NO RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.
- 10. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE LOCATED WITHIN THE PROJECT SITE. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT PENCING AT ALL TIMES TO REPURINT EXCESSIVE EROSOIN, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 14 DAYS, IT SHALL BE TEMPORARY SEEDED.
- 1) AREA WHERE THE PROPOSED BUILDINGS, PARKING LOTS, AND DRIVES AS WELL AS AREAS WHERE PROPOSED UTILITIES ARE LOCATED WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.
- 12 FUEL STORAGE AREA IF REQUIRED SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATION WAY FROM BRANNAGE STRUCTURES AND CHANNELS. FIRE EXTINOUSHERS SHALL BE LOCATED NEAR FUEL. STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED BY GOOD CONDITION.
- 13 TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE GRATER THAN 31) THAT WILL REMAIN NUCLUSTRIBED FOR A PERIOD OF ANORET HAN HOADS SEEDING OFFICIAL SEEDING DATED ARE MARKET I MAY 10 AND AUGUST 10 SEPTEMBER XV SEEDING DATED BARE MARKET I MAY 10 AND AUGUST 10 SEPTEMBER XV SEEDING DATE OF SEPTEMBER XV AND ADVIOLED IN ANY NEED TO BE ASSETTED AND ADVIOLED IN ANY NEED TO BE ASSETTED AND ADVIOLED IN ANY NEED TO BE ASSETTED.
- 14. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINING BY SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTURE POR FOURTERS (14, CALENDAR DAYS OR MORE MUST BE TEMPORARILY OR PERMANEUTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON.
- LOCATION OF ON-SITE POSTING, OF THE COMPLETE RULE 5 NOI AND NOS LETTERS, SHALL BE AVAILABLE AT THE ENTRANCE TO THE SITE AND VISIBLE TO THE PUBLIC.
- 16. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83

RESPONSIBLE INDIVIDUAL FOR SWPPF NAME: COMPANY: Guy Costanza G.M. Contractino 1001 Perthshire Lane Dyer, IN 46311 PHONE NO.: (219) 682-7610





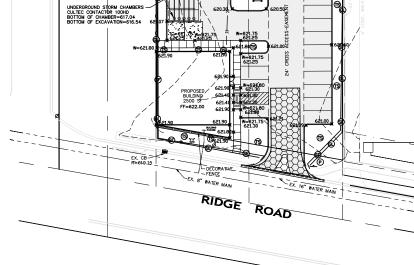
TORRENGA Tel PLAN

STORMWATER POLLUTION PREVENTION RIDGE CAFE ADDITION MUNSTER, INDIANA

01-06-2 11-25-2 04-10-2 03-17-2

Sontracting Perthshire L IN 46311 38 €

> SHEET C-5.0

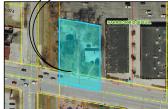




Soil Survey Area: Lake County, Indiana Survey Area Data: Version 22, Sep. 16, 2019

SOIL TYPE LEGEND
PIB - Plainfield fine sand, 0 to 6 percent slopes

コ SITE



J

No.:

Te1

SWPPP

TEMPORARY CONSTRUCTION ENTRANCE/EXIT 

Purpose: To provide a stable entrance/exit condition from the construction site, and to keep mud and sediment off public roads.

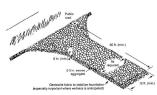
"GRAVEL"

nts:
Writh: 12 feet minimum or full width of entrance
Length: 50 feet minimum
Material: 2-3 inch danneter washed stone (INDOT CA No. 2), with Geotexule
Fashire Underlaner.
This/choics: 6 inch minimum.

508: Remove all vegetation and other objectionable material from the foundation area. Install pipe under the stone if needed to provide proper public road drainage. Install Gloectellie fatric on the graded foundation area prior to stone placement. Divert all surface runoff and drainage from the stone to redinate trap.

ect entrance pad for sediment deposits weekly and after storm events or bester

use.
2. Reahape pad as needed for drainage and runoff control.
3. Topdress with clean stone as needed.
4. Remove mud and sediment included or washed onto public road by brushing or sweeping. No flushing of sediment off the street
5. Repair any broken road prevent timmediately.



Plans of a temporary gravel construction entrance/exit pad.

ns:
Width: 12 feet minimum or full width of entrance
Length: 50 feet minimum
Material: Geotectile-Type mats, AGES Mud Mat or approved equal

Install pipe under mat if needed to provide proper site drainage.

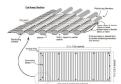
Install Geotextile-Type mat on the graded foundation area.

Divert all surface runoff and drainage from the mat to sediment trap.

nece:

I a second a first command aposits weekly and after storm of a minimum of 1/2

Reduce with a second second and a second second and a second se



PLANS OF TEMPORARY CONSTRUCTION INGRESS/EGRESS PAD

TEMPORARY SEEDING

Purpose: To stabilize disturbed areas especially along both sides of the streets and courts after final grading work is completed and where additional work is not scheduled.

Site and seedbed preparation: Graded, and lime and fertilizer applied

octed on the basis of quick germination, growth, and time of year, see Table for

Fertilize: According to soil test or use 600 lbs/acre 12-12-12 analysis or equivalent Mulch: 1.5 - 2 tona/acre straw. Straw must be dry, unchopped and free of undesirable seeds.

pilotation:

1. Fettilare and line as recommended by the soil test.

2. Till dhe end to obtain a suifform needled, working the firstilizer and lines into the soil 2-14\*

2. Till dhe end to obtain a suifform needled, working the firstilizer and lines into the soil 2-14\*

3. Apply one utilization yet the full recipied-needled, or by brondoming, and cover to adopth as shown on Table for temporary seeding recommendations.

4. He failing or thouseking, firm the needled with a rolled or or obligable.

5. Middle all needled times. (Note: If needing is done with a hydrococker, fertilizer and mustle can the upplied with the refer in a slowy matters).

Impect periodically after planting to see that vegetative stands are adequately established; re-seed if necessary.
 Check for crossion damage after storm events and repair, re-seed and smilch if necessary.

Notes:

1. Vagestaive Filter Strip: permanent or temporary, shall be done on all distribbed areas along both rades of the street and courts to reduce erosion where additional work is not scheduled.

2. Permanent Sceding: or rodding shall be done at the time of final landscaping.

Seed species*	Rate/acre	Planting depth	Optimum dates
Wheat or rye	150 lbs.	1 to 1½ m.	9/15 to 10/30
Spring oats	100 lbs.	1 in.	3/1 to 4/15
Annual ryegrass	40 lbs.	1/4 in.	3/1 to 5/1
, ,			8/1 to 9/1
German millet	40 lbs.	1 to 2 in.	5/1 to 6/1
Sudangrass	35 lbs.	1 to 2 in.	5/1 to 7/30

idle for more than a year (\$\forall \text{Statistical Statistics} \text{ANENT SEEDING})
\*\* Scoding done outside the optimum dates increases the chances of scoding failure.

PERMANENT SEEDING

Purpose: To stabilize disturbed areas especially along both sided of the streets and courts after final grading work is completed and where additional work is not scheduled.

mts: Site and seedbed preparation: Graded, and lime and fertilizer applied.

a: Selected on the basis of Site Conditions, Soil PH, intended land use, and expected level of maintenance see Table for permanent seeding recommendations.

Fertilize: According to soil test or use 600 lbs/acre 12-12-12 analysis or equivalent.

Mulch: 1.5 - 2 tons/acre straw. Straw must be dry, unchopped and free of undesirable seeds

net.
Ferthize and line are recommended by soil text.
Till the so in to obtain a sunform received, vocking the ferthizes and time into the soil.
Till the so in to obtain a sunform received, vocking the ferthizes and time into the soil and apply seed uniformly with a full or colluptacker-sceler, or troudenting, and cover to a depth of vs is in unit.
If the filling is to solve the conducting, firm the received with a relief or cultipacker.
Mitch all needed mean (Note: If receding in done with a hydrocenter, fertilizer and match can be applied with the seed in a ringer maximer)

Interpolated by especially the rions or use useful he and at reaccuring the largest periodically, especially after door or user until as send at reaccuring the largest periodic period

or by re-seeding, and mulching.

If vegetation fails to grow, consider soil testing to determine acidity or mitrient deficiency problems. (Contact your SWCD or Cooperative Extension office for assistance.)

6. If additional fertilization is needed to get a satisfactory stand, do so according to soil

Notes:

Demansent cocking optimum dation are March 1 to May 10 and August 10 to September 30, seeding done between May 10 to August 10 to September 30, seeding done between May 10 to August 10 to you require impaires. Temporary reselting any be used as an absence was plearfund fact for Fernanced Scoling 2. Restantion-Detention are wall and how will be seeded as soon as possible using personance steeding what possible, made or serious damabath are as the used on the seeded as the seeded as the seeded as soon as possible using personance steeding what possible, made or serious factories are seeded as the seeded a

Seeding Recommendations.

This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness. Date per arre

		Rate per acre		Optimum soil pi	
	·	Permanent	Dormont or frost		
OPE	N AND DISTURBED AREAS (REMA	NINING IDLE MORE	THAN 1 YR.		
1.	Perennial ryegrass	35 to 50 lbs.	50 to 75 lbs.	5.6 to 7.0	
	+ white or ladino clover*	1 to 2 lbs.	1 % to 3 lbs.		
2.	Kentucky bluegrass	20 lbs.	30 lbs.	5.5 to 7.5	
	+ smooth bromegrass	10 lbs.	15 lbs.		
	+ switchgrass	3 lbs.	5 lbs.		
	+ timathy	4 lbs.	6 lbs.		
	+ perennial ryegrass	10 lbs.	15 lbs.		
	+ white or ladino clover*	1 to 2 lbs.	1 ½ to 3 lbs.		
3.	Perennial ryegrass	15 to 30 lbs.	22 to 45 lbs.	5.6 to 7.0	
	+ tall fescue**	15 to 30 lbs.	22 to 45 lbs.		
4.	Tall fescue**	35 to 50 lbs.	50 to 75 lbs.	5.5 to 7.5	
	+ ladino or white clover*	1 to 2 lbs.	1 ½ to 3 lbs.		
STE	EP BANKS AND CUTS, LOW MAIN Smooth bromegrass	TENANCE AREAS ( 25 to 35 lbs.	NOT MOWED) 35 to 50 lbs.	5.5 to 7.5	
	+ red clover*	10 to 20 lbs.	15 to 30 lbs.		
2.	Tall fescue**	35 to 50 lbs.	50 to 75 lbs.	5.5 to 7.5	
	+ white or ladino clover*	1 to 2 lbs.	1 1/2 to 3 lbs.		
3.	Tall fescue**	35 to 50 lbs.	50 to 75 lbs.	5.5 to 7.5	
	+ red clover*	10 to 20 lbs.	15 to 30 lbs.		
	(Recommended north of US 4	0)			
4.	Orchardgrass	to 30 lbs.	30 to 45 lbs.	5.6 to 7.0	
	+ red clover*	10 to 20 lbs.	15 to 30 lbs.		
	+ ladino clover*	1 to 2 lbs.	1 1/2 to 3 lbs.		
5.	Crawnvetch*	10 to 12 lbs.	15 to 18 lbs.	5.6 to 7.0	
	+ tall fescue**	20 to 30 lbs.	30 to 45 lbs.		
	(Recommended south of US 4	0)			
	INS AND HIGH MAINTENANCE A	NEAC.			
LAV 1.	INS AND HIGH MAINTENANCE AT	105 to 140 lbs.	160 to 210 lbs.	5.5 to 7.0	
2.	Perennial ryegrass (turf-type)		70 to 90 lbs.	5.6 to 7.0	
4.	Perennial ryegrass (turr-type)	45 to 60 lbs.	70 to 90 lbs.	3.0 10 7.0	

+ bluegrass	70 to 90 lbs.	105 to 135 lbs.		
Tall fescue (turf-type)**	130 to 170 lbs.	195 to 250 lbs.	5.6 to 7.5	
+ bluegrass	20 to 30 lbs.	30 to 45 lbs.		
ANNELS AND AREAS OF CONCE	NTRATED FLOW			
Perennial ryegrass	00 to 150 lbs.	150 to 225 lbs.	5.6 to 7.0	
+ white or ladino clover*	1 to 2 lbs.	1 1/4 to 3 lbs.		
Kentucky bluegrass	20 lbs.	30 lbs.	5.5 to 7.5	
+ smooth bromegrass	10 lbs.	15 lbs.		
+ switchgrass	3 lbs.	5 lbs.		
+ timathy	4 lbs.	6 lbs.		
+ perennial ryegrass	10 lbs.	15 lbs.		
+ white or ladino clover*	1 to 2 lbs.	1 16 to 3 lbs.		
Tall fescue**	100 to 150 lbs.	150 to 225 lbs.	5.5 to 7.5	
+ ladino or white clover*	1 to 2 lbs.	1 ½ to 3 lbs.		
Tall fescue**	100 to 150 lbs.	150 to 225 lbs.	5.5 to 7.5	
+ Perennial ryegrass	15 to 20 lbs.	22 to 30 lbs.		
+ Kentucky bluegrass	15 to 20 lbs.	22 to 30 lbs.		

 For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes
 \*\*\*To another the profine-seeded although the grass may be fall-seeded and the legume. \*For best results: (a) legume seed should be innoclastic; (b) seeding instead on the legum touch of preferable placing seeded, although the gas may be it sheeded and the legum touch of preferable places and the legume touch of preferable places are seed on the legume touch of preferable places are seed to the legume to the seed of the legume to the l

DORMANT AND FROST SEEDING

To requir previous seedings.

Requirements:
Site and seedbed preparation: Graded, lime and fertilizer applied.

Seed Selected:

Selected on the basis of Site Conditions, Suil PH, intended land use, and expected level of maintenance. See Table for dormant or frost seeding recommendations. Fertilize: According to soil test or use 400-600 lbs/acre 12-12-12 analysis or equivalent.

Deminant seeding is a temporary or permanent seeding application at a time when soil temporatures are too low for germination to occur (less than 50 °F) Frost seeding is a temporary or permanent seeding application in early spring when soils are in the freeze-throw stage.

For Dormant Seeding: (Seeding dates: Dec. 1-Feb. 28)

1. Site preparation and mulching can be done months ahead of actual seeding, apply mulch

Site preparation and midding can be done months alread of actual seeding, apply midch upon completion of grading (Prackes 215). Broadcast restricts are recommended by roil test. Broadcast restricts are commended of the roil of the recommended dates, fertilize and lime, reed, and mulch at the time).

For Frost Seeding: (Seeding dates: Feb. 28 - Mar. 28)

1. Broadcard fertilizes ar secontemended by a sed text.

2. Select an appropriate seed species or mixture from table for temporary seeding or table for permanent seeding, and broadcard on to the seedble of unito the existing ground cover at the rate shown. On one of with the setting that the seed of the second of the second of the second of the second of the seed of the second o

Maintenance:

1. Apply 200-100 lbs. Jaces of 12-12-12 or equivalent fertilizer between Apr. 15 and May
10 or during periods of vigorous growth.

2. Re-cod and main day are use that how inadequate cover by mid- to late April. For best
results, re-code within the recommended dates shown for temporary oceding or for

Temporary Dormant or Frost Seeding Recommendations.

Seed species*	Rate per acre
Wheat or rve	150 lbs.
Spring oats	150 lbs.
Annual ryegrass	60 lbs.

\*Perennial species may be used as temporary cover, especially f the area to be seeded will remain idle for more than a year.

To promote seed germination and seedling growth, a temporary surface stabilization, and protecting the soil from wind and water impact.

aemts: Material: Straw, hay, wood fiber or excelsior, see table for Mulch Materials, Rates, and comments.

Comments:

Coverage: 75% of the soil surface

Anchoring: Required to prevent displacement by wind or water, see table for Mulch
Anchoring Methods.

ne:
Apply much at the recommended rate
Speed underlinely by Janual, he feel, mainth blower, or hydromatcher with so more than
Anaber manedated you frame grave or hay, using one of the following methods:

- Comp with much suchering tool

- Comp with much suchering tool

- Apply begun backed underlinely

- Apply begun backed underlinely

- Cover with setting secured with nested stuples.

temance:

1. Inspect after storm events to check for movement of mulch or for erosion.

2. If washout, breakage, or erosion is present, repair the surface, then re-seed, re-mulch.

3. Continue inspections until vegetation is firmly established.

Exhibit 3.15-B. Mulch Materials, Rates, and Com Comments Material Rate Should be dry, unchopped, free of

Should be dry, unchopped, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (see Exhibit 3.15-D). Apply with a hydromulcher and use with tacking agent. Wood fiber or cellulose 1 ton /acre 1/2-3/4 Long fiber wood (excelsion) Anchor in areas subject to wind.

Anchoring method	How to apply
Mulch anchoring tool <u>OR</u> Farm disk (dull, serrated, and set straight)	Orimp or punch the straw or hay into the soil 2-4 in.  Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope, not across, or else the tracks will form rills.
Wood hydromulch fibers	Apply 1-2 tons/acre using a hydromulcher at a rate of 750 lbs./acre with a tacking agent (or according to contractor specifications). Do not use in areas of concentrated flow
Asphalt emulsion	Emulsified asphalt should conform to the require- ments of ASTM Spec. #977. Apply with suitable equipment at a rate of 0.05 gal./sq. yd. Do not use in areas of concentrated flow.
Synthetic tackifier, binder or soil stabilizer	Apply according to manufacturer's recommendation.
Biodegradable netting (polypropylene or simi- las material)*	Apply over mulch and staple with 6-8 in, wire staples Follow manufacturer's recommendations for in- stallation. Best suited to stope application.

\* Install the netting immediately after applying the mulch. In areas of concentrated water flow, is it parallel to the direction of flow; on other slopes, lay it either parallel or perpendicular to direction flow. Bigs of adjacent netting strips should overlap 4-6 in, with the strip on the approach aide of an abstral water flow to to. Installation details are site secole; so follow manufacturers' directions.

SELF-MONITORING PROGRAM

A self-monitoring program that includes the following must be implemented at all nermitted

- project dead:

  A tassed individual shall perform a written evaluation of the project rise a minimum of our 1) thus per work and by the out of few next formous day following south of the control of the

repected by		
CO	NSTRUCTION SITE INSPECTION AND MAINTENANCE LO	3
	(To be Completed by Property Owner or Agent)	
entinued ; its has be nust be co re no mos reek. Itsi itali be ke	elect politication provedion (BMR) vitall be inspected and maintained as needed to properties and the freeders funders in any operations on all data continue until see adultation and a historia of Termination has been sessed. An impostion of the pro- petition of the properties of the men business of believing used measurable storm event secretary and the province of the province of the province of the pro- servation of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province of the province of the province of the pro- tocol of the province o	e entire ject cita If there in that This inn
Yes No	NA 1. Are all sediment control borriers, inlet protection and silt fences in place and fur	ctioning I
_	properly?  2. Are all enoticle stoces crotested from erosion through the implementation of an	
- 1	sol stabilization practices?	elange
	3. Are all deviatering structures functioning properly?	
_	Are all discharge points fee of any noticeable pollutant discharges?	
-	5. Are all discharge points feer of any noticeable ensure or sediment transport?     6. Are designated any imment peoples of areas, receptly after clearly readed, any	d bales
_		
	<ol> <li>Are construction staging and parking areas restricted to areas designated as such stars.</li> </ol>	on the
_	Are temporary soil stockpies in approved areas and properly protected?	-
	Are construction entrances properly installed and being used and maintained?	
_	93. Are "Do Not Disturb" areas designated on plan sheets clearly marked on-sits and a 11. Are public reads at intersections with site access reads being kept clear of se debre, and mus?	roided? corrent,
	12 is spli response equipment on-site, logically located, and easily accessed energency?	in an
_	33. Are emergency response procedures and contact information clearly posted?     14. Is said waste properly contamen?	=
_		-
	17. Have previously recommended corrective actions been implemented?	
you answe notien and	ned "no" to any of the above questions, describe any connective action which must be taken to re when the connective actions are to be competed.	nedy the

REPORT SAMPLE

SPILL PREVENTION AND RESPONSE

Procedures and practices to prevent and control spills in a manner that minimizes or eliminates the discharge of spilled material to the drainage system or watercourses.

Hazardous Waste Products: Other Waste Products: Soil stabilizers/binders
 Duet palliativee
 Herbicides
 Growth inhabitors
 Fertilizers
 Deicing/anti-icing chemicals
 Puels Asphalt Pr Stains,
Solvents,
Wood Preservatives,
Roofing Tar, or

Any materials deemed a hazardous waste in 40 CFR Parts 110, 117, 261; or 302

Twentime Predicate

The difference are unappresent a periors must far reduction of spills and other sectionals. The difference are unappresent and produced to the section of the section

Response Practices:
In the event that a large spill occurs (that which requires extensive cleansy actions, refer to MSD sheets for information), the following procedures shall be followed to minimize exposure of the material. a. Immediate action shall be taken to control and contain the spill to prevent it from

entering any nearby storm sewer structures or open waters.

Notify the Town of Munster Fire Department at 911 for all combustible and flammable materials.

Hammades materials.

Notify the Percha Emergency Spill Hedian at 1-800-11-8002 within 2 hours for spill notwor the reported allowable quantity, or if the naterial eries any musty. A Notify the Section Emergency Response for Berlin at 1-888-21-15-26.

Notify the faithers Emergency Response form at 1-881-21-15-26.

The right are shall be included from all environding nears with absorbed paid, and the state of the shall be included from all environding near with absorbed paid.

The right faith and was evented to be our side of the window.

The right faith and we evented to be our side of the window.

Emergency Response teams call be contacted for extensive spills above and beyond the contactment by a waither attention.

when Deposed Measurement Practices.

All sold wants associated synthesis construction and development of this project shall be all spines are supported by the sail all pipelines are and federal laws associated with the wants persured. Development and constructes are to project so-mit dempeters, retards from a licensed sold wante management company, to ensure wants to callected and dapspood of properly. All that and construction obtains from the write the deposited in a champeter. No construction wants will be limited ontate. All personnel will be instructed aregaining the concert providence for want deposit.

Select a designated warte collection area casite.
 Provide an adequate number of contracters with his or covers throughout the rise, and frequent pictures
 Covered numericates contracters with his or covers throughout the rise,
 Provide numericates common of any container spills.
 Covered numericates was read to collected, removed, and disposed of only at authorized the contraction wards as collected, removed, and disposed of only at authorized the contraction was contracted to the contraction of the con



NT: Contracting Perthshire Lane IN 46311 18

- quitements:

  1. Leate concerle washout systems at least 50 feet from any creeks, wellands, ditches, karet feetimes, or decun districtantummende conveyance systems.

  2. Lecdes conceive wheeling of spent in relatively fill near which eshellstuded vegetieive and the system in relatively fill near which eshellstuded vegetieive and the system of the syste equipment.

  Locate away from other construction traffic to reduce the potential for damage to the
- Locates way men count entire access unany oversus.

  Manamus of na millamer polyvelty-nesting that is fire of lokes, tours, and other defect. The theriting relevated should be of an apprepriate area to fit the warhout system without ensure or overlaw of the limits.

  Crumps entire from the limits.

  Crumps enthy finencing or equivalent.

  Starve blean, androllog rougs should be elast ultravoider-tabilized geotentic fabrics), red. material, or other appropriate materials that can be used to construct a contaminent system (showe parties) without the contaminent system (showe parties) when the contaminent system (shower parties) which is a simple system (shower parties).

### Dependent upon the type of system, either excavate the pit or install the containment

- system.

  A base shall be constructed and removed that is free of rocks and other debris that may
- A hase shall be commended appropried that is fire of rocks and other debut that may make used tears in parameters in the polybedyther limits, such as high adoles destined on the entire accoration. The limit for better depend systems should be installed over the pooling season destined and the state of t
- system (optional).

  6.) Install signage that identifies concrete washout areas.

  7.) Post signs directing contractors and suppliers to designated locations

- The signal direction contricted and neighbor to designated locations.

  The districtions are:

  In page of anyly and after each steen event.

  The record and steen each steen event.

  The page of the event and structure including, where applicable, the continuous steen of the event and structure including, where applicable, the continuous steen of the event of the event

CONCRETE WASHOUT Concrete Washout (Below Grade System) Worksheet 0000000 Plan View Not to Scale

SILT FENCE

Spacing of Support: 6-foot maximum on center.

Purpose: To retain sediment from small sloping disturbed areas by reducing the velocity of sheet flow.

Fence height: A 2-ft, minimum or high enough so depth of impounded water does not exceed one-half the height of the fence at any point along the line.

Fence Fabric: Spimbound polyester material with a fiberglass scrim or net sandwiched in between the layers, SS-700 SikSaver or approved equal.

stabilistic

1. Along the entire intended fense line, mantain conter as much as possible, dag a 6° deep flat better trunch.

2. On the decomplany date of the branch, here the post of \$0.12' into the present.

2. On the decomplany date of the branch, here the post of \$0.21' into the present.

2. On the content of the content of the present of the post o

Inspect all force once very aven calender days and 24 hours after each elems event of

Inspect all force once very aven calender days and 24 hours after each elems event of

Inspect files there is no cale to the decompose, or become infection, replace the affected portion,
as critical of by in normal-turns.

In more deposited estimant within a reache one-ladf the hoppet of the fonce at its lower point

I have been a contracted on the contract of the contract

GROUND WITH IN TRENCH 5 ~ 1-1/2" STAPLES

Attachement: Hardwood laths secured to stakes with five (5) 1-1/2 inch staples.

BASKET INLET / CATCH BASIN PROTECTION To prevent excessive sediment from entering storm sewers at inlet/catch basin, allowing full use of the storm drain system during the construction period. Requirements:
Trench: 6" minimum depth, flat bottom , filled with compacted soil to bury lower pertion of fence fabric.

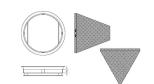
nts: Steel Frame with top width-length dimensions such that the backet fife into the inlet and/or catch bosin (circular and/or rectangular), and a replaceable Geotextile fibric bog attached with a steel band locking cop that is europeaded from the frame, Catch—all late! Protector Hancor Pie-Gard bt Nytoplast or approved equal.

- before land disturbing activities begin in a stabilized area.

  Remove the grate, and place the basket assembly under the grate on the lip of the structure frame.

  Replace the inlet/catch basin grate.

- ce Impret weekly during construction and after each storm event of a minimum of 1/2 inch rainfall, and remove built-up sediment. Replace beg event is (6) months. Replace bed event is (6) months. Replace the Geotexthic fixthe is pair (there is a hole endoor wort pass water. Replace the Geotexthic fixthe is pair after any oil, gaschine or rolvent spill.



EDUCAL WITE PARK, Top Tenge fairkasted from (X\*18\*\*e)\* angle. Base rin fairkasted from (X\*18\*\*e)\* Chonnel, Isradies and auspresson involves's fairkasted from ISRADIC Table (X\*18\*\*e) and ISRADIC CONTROL (X\*18\*\*e) and ISRADIC Table (X\*18\*\*e) and ISRADIC Ta

TYPICAL INLET/CATCH BASIN PROTECTION INSERT DETAIL



To reduce the amount of pollutants that get washed into the storm drain and ultimately transported and desociated in materbodies

Sweeping at points of egress where sediment is tracked from project site onto public or private streets and roads.

Sweeping may be ineffective if soil is wet or heavy accumulation of mud.
 May require repeat cleanings.

### ect potential sediment tracking ingress and egress points locations daily, and after rain

- project.

  Be careful not to sweep up any unknown substance or any object that may be potentially
- hazardous.

  Adjust brocoms frequently, maximize efficiency of sweeping operations.

  After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

# TOE IN AND COMPACT BACKFILL POST (OAK) (2'x 2'x 45') SIDE VEW

LONG WOOD FOS FRONT ELEVATION

BELTED SILT RETENTION FENCE



### Silt Fence Wrap Joint Detail

## TOPSOIL SALVAGE & UTILIZATION Purpose: To provide a method of preserving topscal for use in establishing vegetation to achieve final site stabilization.

Specifications:
Material
Typically the darker, friable, loamy surface layer of soil found immediately below vegetation

Storage Area

1. Free of elumps, rock, and construction delaris.

2. Stockpile covered with vegetation or a larp.

3. Surrounded by a sediment barrier or sediment filter.

4. Stockpile outside rooting zone of trees to be protected.

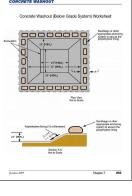
- Application:
  Variety of the Control of the Control

Spreading Topsoil

1. Prior to applying topsoil, grade the subsoil and roughen the top three to four inches 1. Price to applying opposing, genice use suscession and accession to the polytheria by disking.
2. Apply topsoil excellently to a depth of a minimum of four inches, then compact slightly apply topsoil excellent the minimal.
2. The property of the property is well analysis of recent

Example of the control of the contro

CONCRETE WASHOUT Concrete Washout (Above Grade System) Worksheet Alternative materi will require design Polyethylene linin |10 millimetersk The lining should extend over the -Plan View Not to Scale Section A-A Not to scale 254 Chapter 7 October 2007



NT: Contracting Perthshire Lane IN 46311 18

SHEET C-6.1

INC.

A ENGINEERING, ING BENGINEERS & LAND SURVEYORS

ROAD, MUNSTER, INDIAN 46321

PROAD, MUNSTER, INDIAN 46321

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RRENG

10L

ADDITION INDIANA

RIDGE CAFE , MUNSTER, II

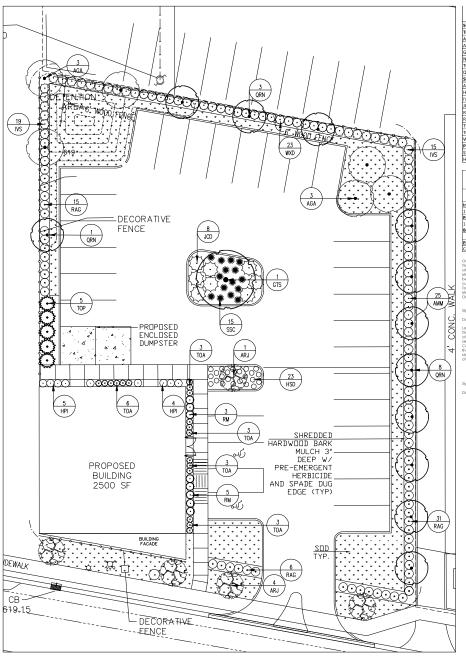
CONSULTING 907 RIDGE F (219) 836-8918

No.: TeI.

SPECIFICATIONS

શ્ર DETAILS

SWPPP



### PLANT LIST

Symbol	Botanical Name	Common Name	Size
Trees			
AGA	Amelanchier grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	5-6' MS
ARJ	Acer rubrum 'JFS-KW78'	Armstrong Gold Maple	2"
GTIS	Gleditsia triacanthos 'Suncole'	Sunburst Honeylocust	2"
NSN	Nyssa sylvatica 'NSUHH'	Green Gable Blackgum	2"
TOP	Thuja occidentalis 'Pyramidal'	Pyramidal Arborvitae	6'
QRN	Quercus x warei 'Nadler'	Kindred Spirit Oak	2"
Shrubs			
AMM	Aronia melanocarpa 'Iroquois Beauty'	Iroquois Beauty Chokeberry	#3
HPI	Hydrangea paniculata 'Ilvobo'	Bobo Hydrangea	#3
IVS	Itea viginica 'Sprich'	Little Henry Sweetspire	#3
JCD	Juniperus chinensis 'Daub's Frosted'	Daub's Frosted Juniper	#3
RAG	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	#3
RM	Rosa 'Meidrifora'	Coral Drift Rose	#3
TMD	Taxus x media 'Densiformis'	Dense Yew	#3
TOA	Thuja occidentalis 'Anna Van Vloten'	Anna's Magic Ball Arborvitae	#2
WXD	Weigela 'Dark Horse'	Dark Horse Weigela	#3
Perennia	ı		
SSC	Schizachyrium scoparium 'Carousel'	Carousel Little Bluestem	#1
HSD	Hemerocallis 'Stella de Oro'	Stella de Oro Daylily	#1

Calculations	Total Linear Feet	Trees	Trees	Shrubs	Shrubs
Calculations	(LF) or Square Feet (SF)	Required	Provided	Required	Provided
Interior Landscaping					
1 Tree/125 SF	1,135.59 SF	16-20	20		
Parkway					
1 Tree/30 LF	129.31 LF	4	4		
Buffer Zone	N/A				

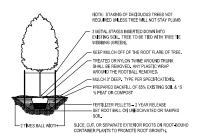
Variet R. Helinger

LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. SHRUB PIT WIDTH TO BE TWO TIMES THE WIDTH OF THE ROOT BALL, PRUNE OFF ALL DEAD, BROKEN OR SCARRED BRANCHES, AND SHAPE PRUNE AS DIRECTED BY THE LANDSCAPE ARCHITECT. LOCATE ROOT FLARE IN ROOT BALL AND SET SHRUB HEIGHT SO THAT ROOT FLARE IS FLUSH OR SLIGHTLY HIGHER THAN FINISH GRADE DEPENDING ON EXISTING SOIL CONCITIONS, WATER IN THE PLATTING MIX THOUGHEY, WHILE KEEPING THE SHRUB FLUIMS. STRAIGHTEN SHRUB IT SETTLING OCCURS. MULCH LIMITS FOR SHRUBS TO SERVEN TO ALL EDGES OF PLATTING BEDS, SEE PLAY FOR SED SERVEY.



SHRUB PLANTING DETAIL NOT TO SCALE

LOCATE AL LINEGRAPOLAD LITTLES PROOF TO CADEND. PREE FIT WIDTH TO BE THE THESE THE WITH OF THE ROY BALL, PINILE OF THE LIDES A ROBORD FOR CORRESSION SHOP AND SHAP PRIME AS DIRECTED BY THE LANDSCAPE ARCHITECT, LOCATE BOOT FLARE HIR HOT DIALL AND SET THERE HIRDOT OF THAT FOR OTHER HIS HOUSE OF BALL AND SET THERE HIRDOT FLARE FIT MOST OF ALL BE ALL OF SET THE PLANTING WITH THE FOR OTHER THAT PHINH FINE THE PREFIT HIS OFFICE THE PROPERTY OF THE P



DECIDUOUS & EVERGREEN TREE PLANTING DETAIL

LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DISGINS, AMEND PLANTING BED SOIL WITH COMPOST PRIOR TO PLANT INSTALLATION, BED HEIGHT IS TO BE 2' ABOVE FINGS I GRADE AND WELL DRAINED. MULCH LIMITS FOR PERENNIAL AND GROUNDCOVER BEDS TO EXTEND TO ALL EDGES OF THE BEDS, SEE PLANS FOR BED LAYOUTS.



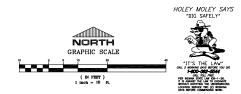
TYPICAL SPACING, AS SPECIFIED IN THE PLANT LIST, PERENNIALS SHALL BE PLACED WITH THEIR CENTERS NO CLOSER THAN 12" FROM EDGE OF SED. GROUNDCOVERS SHALL BE PLACED WITH THEIR CENTERS NO CLOSER THAN 6" FROM EDGE OF BED.



MULCH, 2" DEPTH AROUND PERENNIALS, GRASSES, AND GROUNDCOVERS. MIN. 3" COMPOST ROTOTILLED INTO SOIL TO A

MIN. DEPTH OF 6". DO NOT COMPAC UNNECESSARILY AFTER PLANTING.

PERENNIAL, GROUNDCOVER, AND ANNUAL PLANTING DETAIL NOT TO SCALE



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Landscape Beds, Stand alone trees and Perennial Areas to have Shredded Hardwood Bark Mulch 3" Deep w/
Pre-emergent herbicide and have spade dug

All Lawn Areas to have Sod.

All Landscaping to be Irrigated.



	Site Plan Revisions	7/20/2021
	Parking Lot Revision	1/19/2021
	Site Plan Revisions	1/8/2021
	Revisions:	1/7/2020



210 East 113th Avenue Crown Point, Indiana Phone: 219-662-9911

407 RIDGE ROAD MUNSTER, IN



