

August 09, 2022

Additions and Renovations to Edgewood Intermediate School 7620 E Edgewood Ave. Indianapolis, IN, 46239

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications and the Drawings dated May 23, 2022, by Gibraltar Design (Architect). Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 5 - 1 and attached Gibraltar Design Addendum No. 5, dated August 9, 2022, consisting of 1 page (AD.05-1) and Drawing Sheets: C-100, C-101, C-102, C-103, C-104, C-107, and C-108.

GENERAL NOTE

Combination Bids: Combination Bids will not be accepted if individual bids for each Bid Category are not provided with the Combination Bid.

Below is the link for the Optional Virtual Bid Opening, which Bids are due August 16, at 2:00PM (local time)

Microsoft Teams meeting Join on your computer or mobile app <u>Click here to join the meeting</u> Or call in (audio only) +1 317-762-3960,,972016988# United States, Indianapolis Phone Conference ID: 972 016 988#

Pre-Award Conferences Schedule

- BC01 General Trades (8/17/2022 @ 10:00AM Local Time)
- BC12 Site Demolition, Earthwork, & Site Utilities (8/17/2022 @ 11:00AM Local Time)



ADDENDUM FIVE

Addendum Five (AD.05) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for Edgewood Intermediate School Additions and Renovations [REBID General Trades] for Franklin Township Community School Corporation, Indianapolis, Indiana.

All Contractors bidding on this project shall read all of the items covered below and shall comply with all of the requirements as set forth, including any necessary refinements or additions generated by this Addendum, and required by the intent of the original contract documents. All Contractors shall acknowledge on their bid form that they have received this Addendum, Addendum One, Addendum Two, Addendum Three, Addendum Four, and include the appropriate content of same within their bid proposal.

SPECIFICATIONS

- 1. Specification Section 03 30 00 Concrete
 - A. W. R. Meadows, Inc. is hereby approved to bid LIQUI-HARD, liquid densifier sealer and 1100, for concrete curing compound for this project. All requirements of the Drawings and Specifications shall be met, including the color selections.
- 2. Specification Section 03 30 00 Concrete
 - A. AVECS is hereby approved to bid PRO-ACT MVRA for moisture vapor reduction admixture for this project. All requirements of the Drawings and Specifications shall be met, including the color selections.

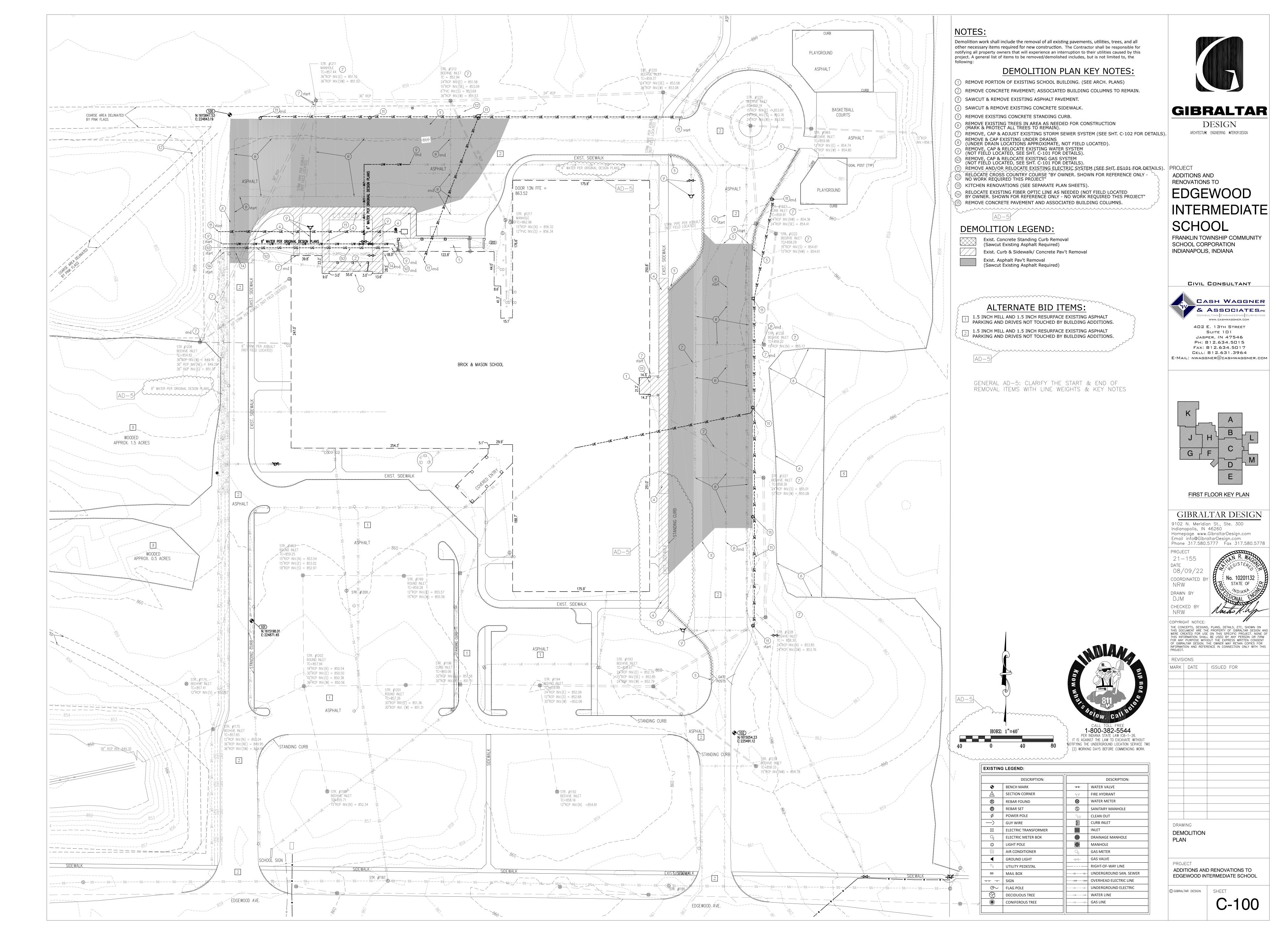
DRAWINGS

1. Sheet C-100, C-101, C-102, C-103, C-104, C-107, and C-108

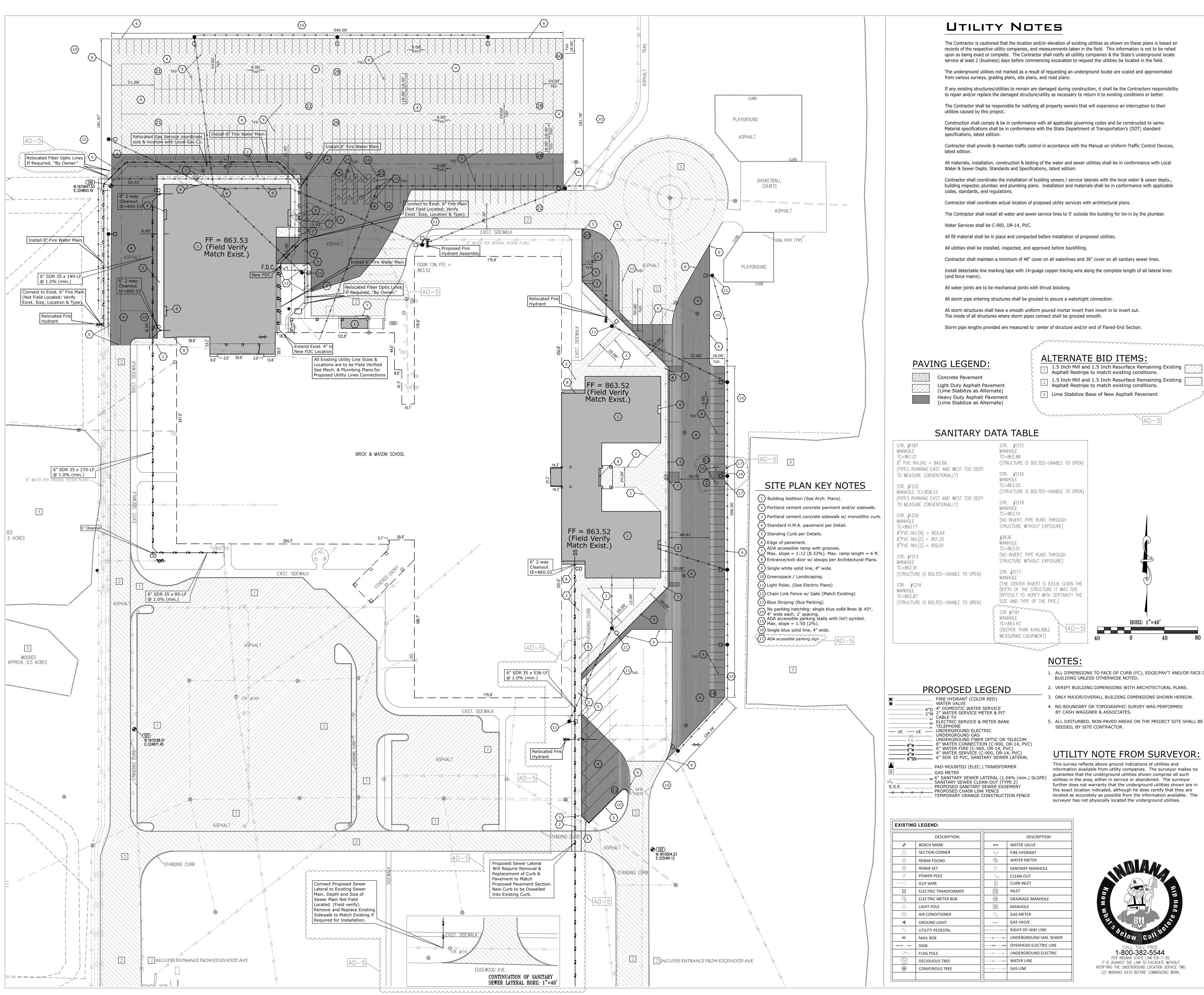
A. Refer to Seven (7) revised full size drawings, included in this Addendum, for revisions.

Pages 1 inclusive, and Seven (7) Full-Size Drawings constitute the total makeup of **Addendum Five**.





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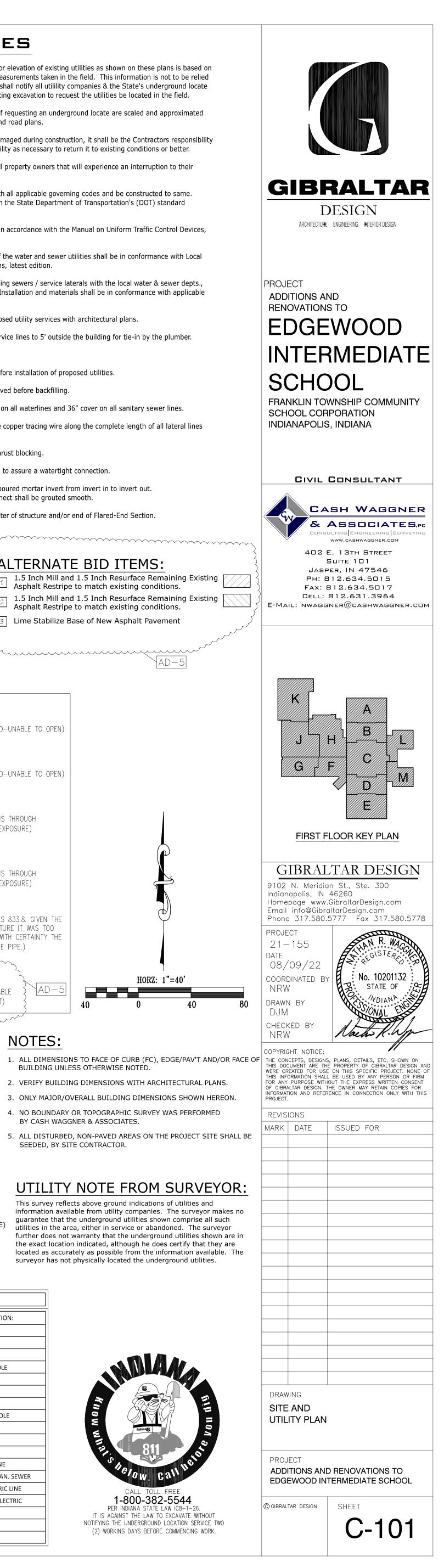
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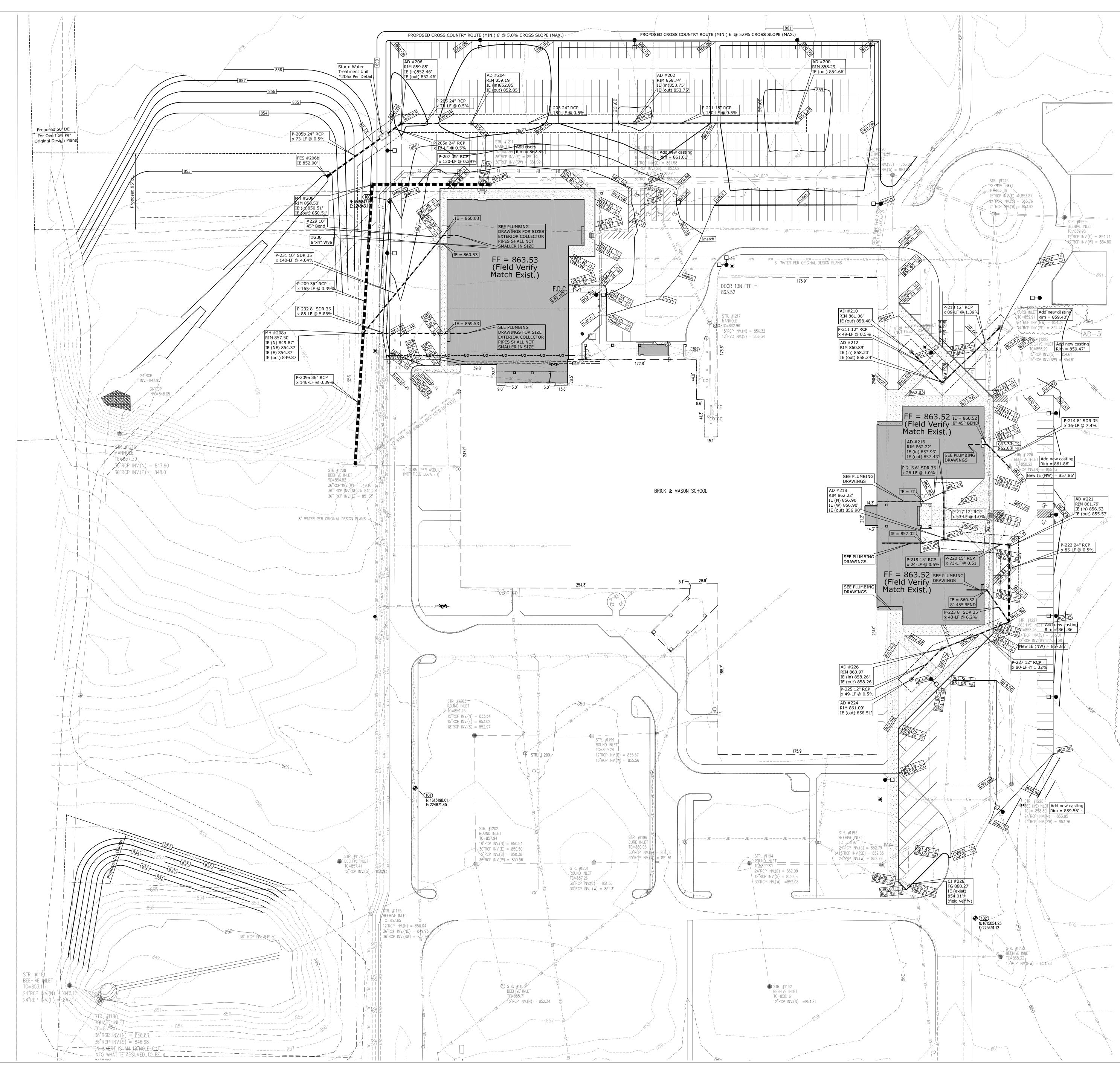
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HORZ: 1"=40'

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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.





Grading & Drainage Notes

The Contractor is cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the respective utility companies, and measurements taken in the field. This information is not to be relied upon as being exact or complete. The Contractor shall notify all utility companies & the State's underground locate service at least 2 (business) days before commencing excavation to request the utilities be located in the field.

If any existing structures/utilities to remain are damaged during construction, it shall be the Contractors responsibility to repair and/or replace the damaged structure/utility as necessary to return it to existing conditions or better.

The Contractor shall be responsible for notifying all property owners that will experience an interruption to their utilities caused by this project.

The Contractor shall adhere to all terms & conditions as outlined in the General N.P.D.E.S. Permit for stormwater discharge associated with construction activities.

All cut & fill slopes shall be 3:1 (max) or flatter unless otherwise noted. All areas to remain unsurfaced shall receive 6" (min.) of topsoil upon final grading operations.

All storm pipe entering structures shall be grouted to assure a

watertight connection. All storm structures shall have a smooth uniform poured mortar invert

from invert in to invert out. The inside of all structures where storm pipes connect shall be grouted smooth.

Storm pipe lengths provided are measured to center of structure and/or end of Flared-End Section.

Contractor shall assure positive drainage away from buildings for all lawn & paved areas.

All areas (lawn & pav't) shall be graded to drain. Contractor shall repair all bird baths.

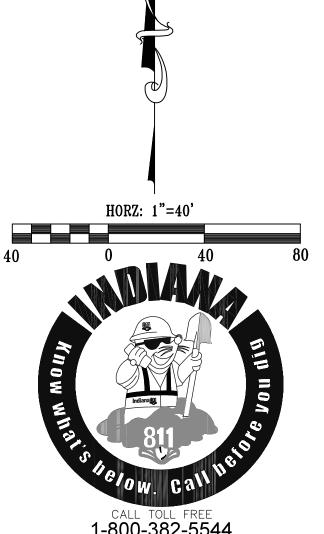
Construction shall comply & be in conformance with all applicable governing codes and be constructed to same. Material specifications shall be in conformance with the State Department of Transportation's (DOT) standard specifications, latest edition.

All areas shall comply with the Americans with Disabilities Act Accesibility Guidelines.

All exposed areas to be used for subgrade preparations shall be scarified to a minimum depth of 8" and compacted to 100% standard proctor (ASTM D698) at a moisture content within 1% below and 3% above the optimum, or as outlined in the sub-surface exploration and Geotechnical report prepared for this project.

All fill materials used for subgrade preparations shall be placed in 8" loose lifts and compacted to 100% standard proctor (ASTM D698) at a moisture content within 1% below & 3% above the optimum, or as outlined in the sub-surface exploration and Geotechnical report prepared for this project.

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000.00 T.C. 000.00 Gut.		Proposed Top of Curb & G	Proposed Top of Curb & Gutter Eleva			
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XXX]	Proposed Contour				
	1	Existing Storm Pipe				
		Proposed Storm Sewer				
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P-XX	Х	Storm Pipe				
AD #X	XX	Area Drain				
FES X	XX~~~~	· Plared-End Section	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
XX DE		Drainage Easement AD-5				
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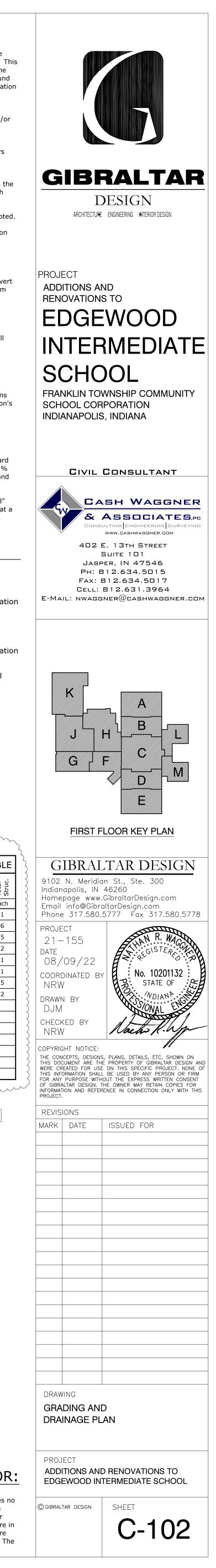


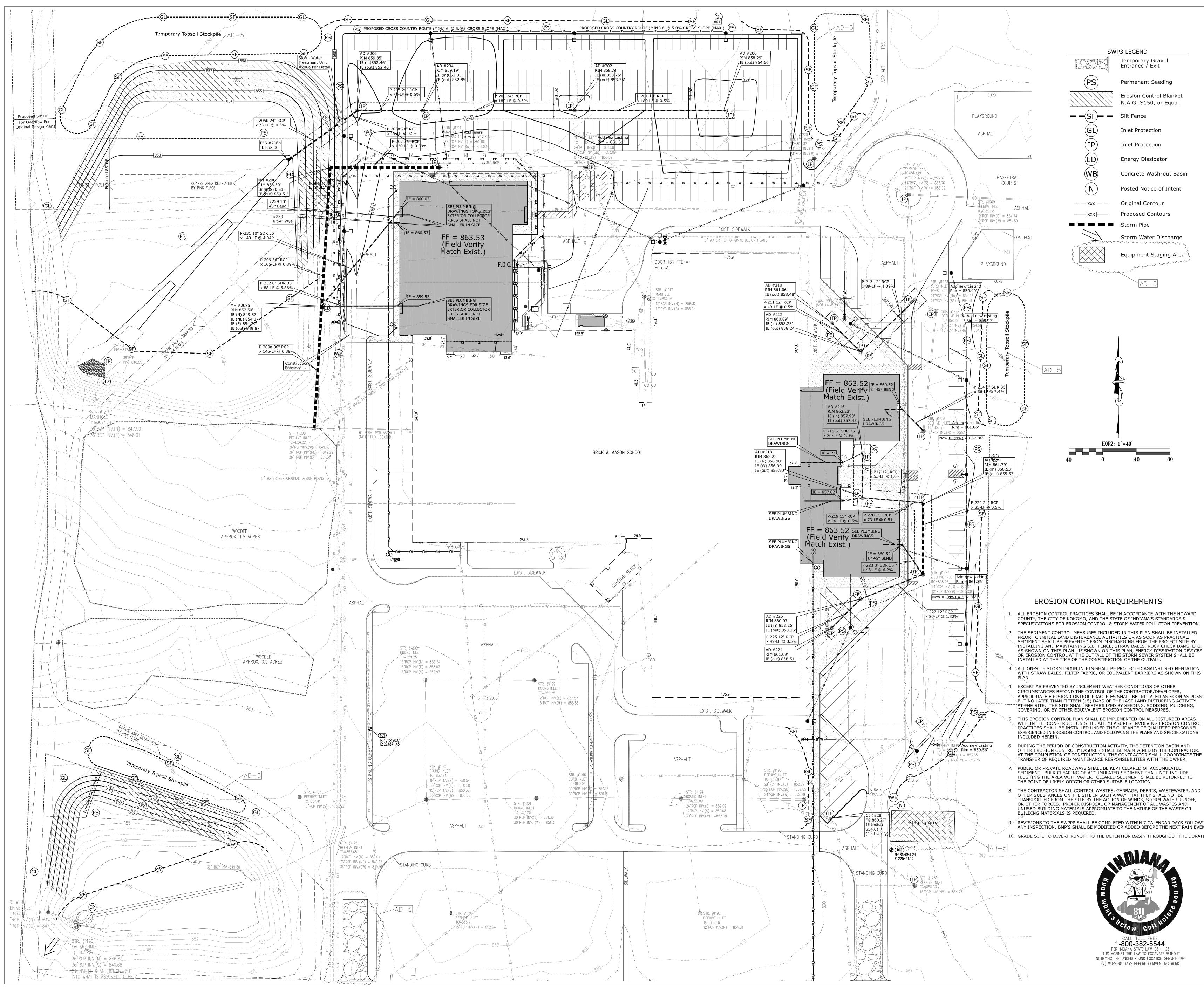
AD-5

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1-800-382-5544 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.

UTILITY NOTE FROM SURVEYOR: This survey reflects above ground indications of utilities and information available from utility companies. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warranty that the underground utilities shown are in the exact location indicated, although he does certify that they are located as accurately as possible from the information available. The surveyor has not physically located the underground utilities.





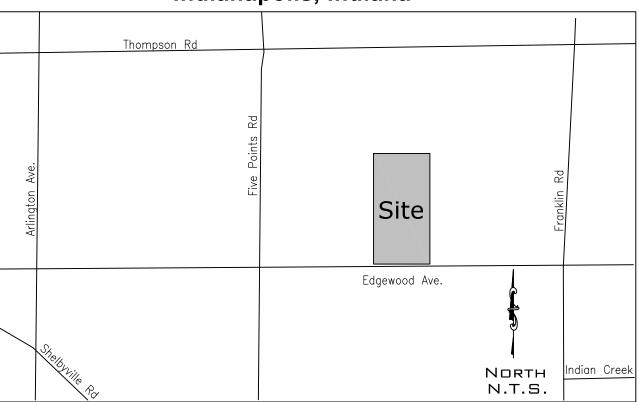
- COUNTY, THE CITY OF KOKOMO, AND THE STATE OF INDIANA'S STANDARDS & SPECIFICATIONS FOR EROSION CONTROL & STORM WATER POLLUTION PREVENTION. PRIOR TO INITIAL LAND DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. SEDIMENT SHALL BE PREVENTED FROM DISCHARGING FROM THE PROJECT SITE BY INSTALLING AND MAINTAINING SILT FENCE, STRAW BALES, ROCK CHECK DAMS, ETC. AS SHOWN ON THIS PLAN. IF SHOWN ON THIS PLAN, ENERGY-DISSIPATION DEVICES OR EROSION CONTROL AT THE OUTFALL OF THE STORM SEWER SYSTEM SHALL BE
- APPROPRIATE EROSION CONTROL PRACTICES SHALL BE INITIATED AS SOON AS POSS BUT NO LATER THAN FIFTEEN (15) DAYS OF THE LAST LAND DISTURBING ACTIVITY
- THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL AND FOLLOWING THE PLANS AND SPECIFICATIONS
- AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE TRANSFER OF REQUIRED MAINTENANCE RESPONSIBILITIES WITH THE OWNER.
- FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
- TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORM WATER RUNOFF, UNUSED BUILDING MATERIALS APPROPRIATE TO THE NATURE OF THE WASTE OR
- ANY INSPECTION. BMP'S SHALL BE MODIFIED OR ADDED BEFORE THE NEXT RAIN EVEN

	GIBRALTAR DESIGN ARCHITECTURE ENGINEERING INTERIOR DESIGN
	PROJECT ADDITIONS AND RENOVATIONS TO EDGEWOOD INTERMEDIATE SCHOOL FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION INDIANAPOLIS, INDIANA
	CASH WAGGNER CASH WAGGNER CONSULTING ENGINEERING SURVEYING WWW.CASHWAGGNER.COM 402 E. 13TH STREET SUITE 101 JASPER, IN 47546 PH: 812.634.5015 FAX: 812.634.5017 CELL: 812.631.3964
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	GIBRALTAR DESIGN 9102 N. Meridian St., Ste. 300 Indianapolis, IN 46260 Homepage www.GibraltarDesign.com Email info@GibraltarDesign.com Phone 317.580.5777 Fax 317.580.5778 PROJECT 21-155 DATE 08/09/22 COORDINATED BY NRW DRAWN BY DJM CHECKED BY NRW COPYRIGHT NOTICE:
SIBLE,	THE CONCEPTS, DESIGNS, PLANS, DETAILS, ETC, SHOWN ON THIS DOCUMENT ARE THE PROPERTY OF GIBRALTAR DESIGN AND WERE CREATED FOR USE ON THIS SPECIFIC PROJECT. NONE OF THIS INFORMATION SHALL BE USED BY ANY PERSON OR FIRM FOR ANY PURPOSE WITHOUT THE EXPRESS WRITTEN CONSENT OF GIBRALTAR DESIGN. THE OWNER MAY RETAIN COPIES FOR INFORMATION AND REFERENCE IN CONNECTION ONLY WITH THIS PROJECT. REVISIONS MARK DATE ISSUED FOR
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	DRAWING EROSION CONTROL PLAN PROJECT
	© GIBRALTAR DESIGN SHEET C-103

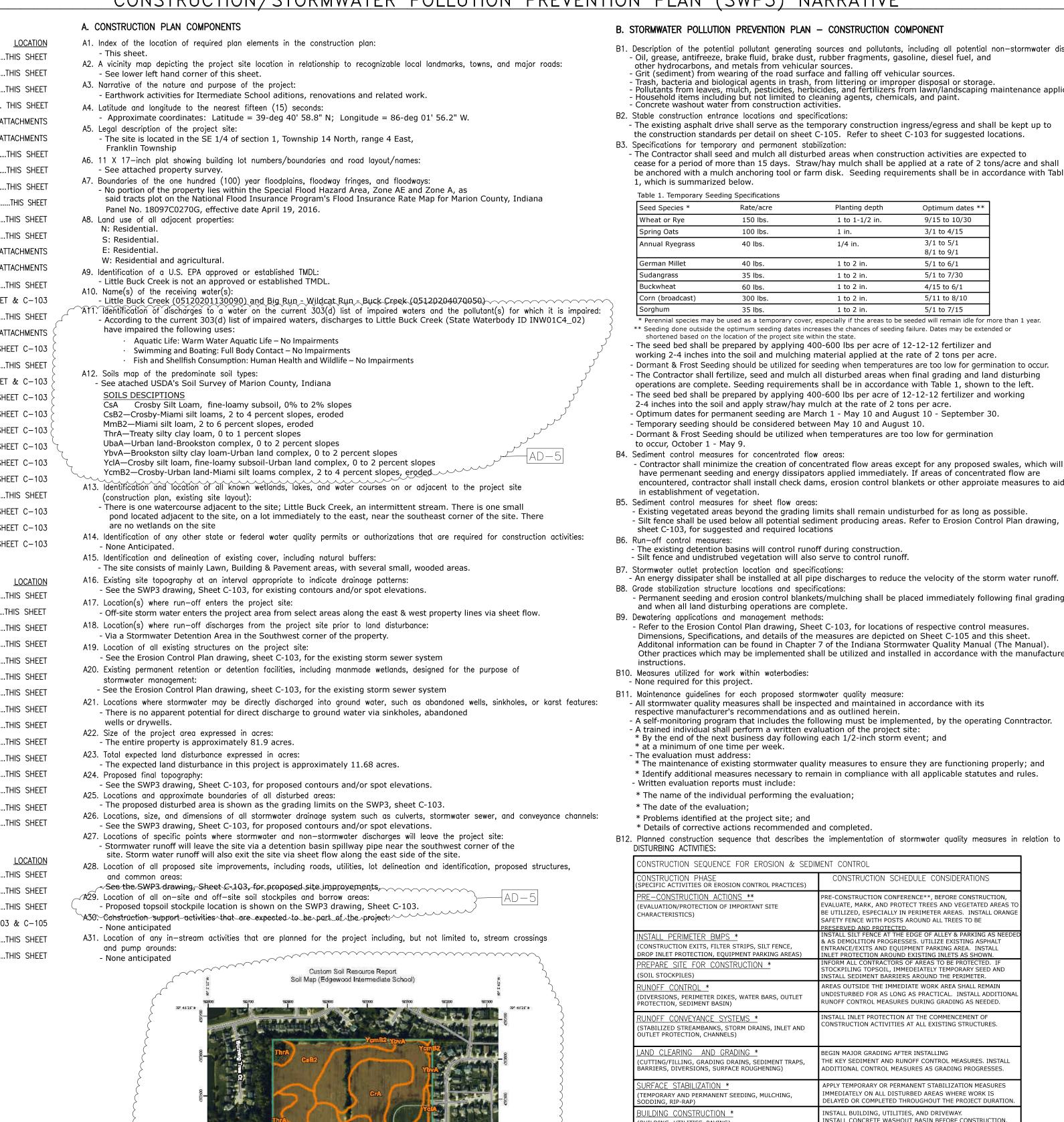
A1. PLAN INDEX	
<u>A. CONSTRUCTION PLAN ELEMENTS</u> A1. Index of the location of required plan elements in the construction plan:	<u>L</u> THIS
A2. A vicinity map depicting the project site location in relationship to recognizable local landmarks, towns, and major roads:	
A3. Narrative of the nature and purpose of the project:	
A4. Latitude and longitude to the nearest fifteen (15) seconds:	THI
A5. Legal description of the project site:	ATTAC
A6. 11 X 17—inch plat showing building lot numbers/boundaries and road layout/names:	ATTAC
A7. Boundaries of the one hundred (100) year floodplains, floodway fringes, and floodways:	THI
A8. Land use of all adjacent properties:	THI
A9. Identification of a U.S. EPA approved or established TMDL:	
A10. Name(s) of the receiving water(s):	
A11. Identification of discharges to a water on the current 303(d) list of impaired waters and the pollutant(s) for which it is impaired;	
A12. Soils map of the predominate soil types:	
A13. Identification and location of all known wetlands, lakes, and water courses on or adjacent to the project site:	
A14. Identification of any other state or federal water quality permits or authorizations that are required for construction activities:	
A15. Identification and delineation of existing cover, including natural buffers:	
A16. Existing site topography at an interval appropriate to indicate drainage patterns:	
A17. Location(s) where run-off enters the project site:	
A18. Location(s) where run-off discharges from the project site prior to land disturbance:	
A20. Existing permanent retention or detention facilities, including manmade wetlands, designed for the purpose of stormwater management	
A20. Existing permanent retention of detention racindes, including mannade weatings, designed for the purpose of stormwater management. A21. Locations where stormwater may be directly discharged into ground water, such as abandoned wells, sinkholes, or karst features;	
A22. Size of the project area expressed in acres:	
A23. Total expected land disturbance expressed in acres:	
A24. Proposed final topography:	
A25. Locations and approximate boundaries of all disturbed areas:	
A26. Locations, size, and dimensions of all stormwater drainage system such as culverts, stormwater sewer, and conveyance channels:	SHEET
A27. Locations of specific points where stormwater and non-stormwater discharges will leave the project site;	SHEET
A28. Location of all proposed site improvements, including roads, utilities, lot delineation and identification, proposed structures, and comm	on areas:THIS
A29. Location of all on-site and off-site soil stockpiles and borrow areas:	SHEET
A30. Construction support activities that are expected to be part of the project:	SHEET
A31. Location of any in-stream activities that are planned for the project including, but not limited to, stream crossings and pump aroun	ds;SHEET
B. STORMWATER POLLUTION PREVENTION PLAN:	L
B1. Description of the potential pollutant generating sources and pollutants, including all potential non-stormwater discharges:	THIS
B2. Stable construction entrance locations and specifications:	
B3. Specifications for temporary and permanent stabilization:	
B4. Sediment control measures for concentrated flow areas:	
B4. Sediment control measures for concentrated flow areas:	
B6. Run-off control measures:	
B7. Stormwater outlet protection location and specifications:	
 B8. Grade stabilization structure locations and specifications: B9. Dewatering applications and management methods: 	
B9. Dewatering applications and management methods: B10. Measures utilized for work within waterbodies:	
B11. Maintenance guidelines for each proposed stormwater quality measure:	
B12. Planned construction sequence that describes the implementation of stormwater quality measures in relation to land disturbance;	
B13. Provisions for erosion and sediment control on individual residential building lots regulated under the proposed project:	
B14. Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1:	
B15. Material handling and storage procedures associated with construction activity:	
C. POST CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN:	L
C1. Description of pollutants and their sources associated with the proposed land use;	
C2. Description of proposed post-construction stormwater measures:	THIS
C3. Plan details for each stormwater measures:	THIS
C4. Sequence describing stormwater measure implementation:	S SHEET, C-103 &
C5. Maintenance guidelines for proposed post-construction stormwater measures:	THIS

C6. Entity that will be responsible for operation and maintenance of the post- construction stormwater measures...





CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE



UILDING, UTILITIES, PAVING <u> ANDSCAPING AND FINAL STABILIZATION *</u> (TOPSOIL, TREES, AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIP-RAP) MAINTENANCE--(1)INSPECT PRACTICES AT LEAST ONCE A WEE **PRE-CONSTRUCTION CONFERENCE--A PRE-CONSTRUCTIO ND DISTURBING ACTIVITY TAKE PLACE AT THE SITE. CONT B13. Provisions for erosion and sediment control on individual residential building lots regulated under the proposed project: - Not applicable for this project. and as required by governing agencies. -AD-5

32 40'50" N

Map Scale: 1:4.710 If printed on A portrait (B.5" x 11") sheet.

a 30 100 200 300

Napprojection: Web Mercator Cornerccordinales: WG584_Edgetics: UTM Zone LEN WG3

B1. Description of the potential pollutant generating sources and pollutants, including all potential non—stormwater discharges: - Oil, grease, antifreeze, brake fluid, brake dust, rubber fragments, gasoline, diesel fuel, and

- Trash, bacteria and biological agents in trash, from littering or improper disposal or storage. - Pollutants from leaves, mulch, pesticides, herbicides, and fertilizers from lawn/landscaping maintenance applications.

- The existing asphalt drive shall serve as the temporary construction ingress/egress and shall be kept up to

- The Contractor shall seed and mulch all disturbed areas when construction activities are expected to cease for a period of more than 15 days. Straw/hay mulch shall be applied at a rate of 2 tons/acre and shall

be anchored with a mulch anchoring tool or farm disk. Seeding requirements shall be in accordance with Table

Planting depth	Optimum dates **			
1 to 1-1/2 in.	9/15 to 10/30			
1 in.	3/1 to 4/15			
1/4 in.	3/1 to 5/1 8/1 to 9/1			
1 to 2 in.	5/1 to 6/1			
1 to 2 in.	5/1 to 7/30			
1 to 2 in.	4/15 to 6/1			
1 to 2 in.	5/11 to 8/10			
1 to 2 in.	5/1 to 7/15			
specially if the areas to be seeded will remain idle for more than 1 year.				

- Dormant & Frost Seeding should be utilized for seeding when temperatures are too low for germination to occur. - The Contractor shall fertilize, seed and mulch all disturbed areas when final grading and land disturbing

operations are complete. Seeding requirements shall be in accordance with Table 1, shown to the left. - The seed bed shall be prepared by applying 400-600 lbs per acre of 12-12-12 fertilizer and working

- Contractor shall minimize the creation of concentrated flow areas except for any proposed swales, which will have permenant seeding and energy dissipators applied immediately. If areas of concentrated flow are encountered, contractor shall install check dams, erosion control blankets or other approiate measures to aid

- Existing vegetated areas beyond the grading limits shall remain undisturbed for as long as possible.

- An energy dissipater shall be installed at all pipe discharges to reduce the velocity of the storm water runoff. - Permanent seeding and erosion control blankets/mulching shall be placed immediately following final grading

Refer to the Erosion Contol Plan drawing, Sheet C-103, for locations of respective control measures. Dimensions, Specifications, and details of the measures are depicted on Sheet C-105 and this sheet. Additional information can be found in Chapter 7 of the Indiana Stormwater Quality Manual (The Manual). Other practices which may be implemented shall be utilized and installed in accordance with the manufacturer's

- A self-monitoring program that includes the following must be implemented, by the operating Conntractor.

* The maintenance of existing stormwater quality measures to ensure they are functioning properly; and

B12. Planned construction sequence that describes the implementation of stormwater quality measures in relation to land disturbance:

IME	INT CONTROL
Τ	CONSTRUCTION SCHEDULE CONSIDERATIONS
E B S P	RE-CONSTRUCTION CONFERENCE**, BEFORE CONSTRUCTION, VALUATE, MARK, AND PROTECT TREES AND VEGETATED AREAS TO SE UTILIZED, ESPECIALLY IN PERIMETER AREAS. INSTALL ORANGE GAFETY FENCE WITH POSTS AROUND ALL TREES TO BE RESERVED AND PROTECTED.
8 E	NSTALL SILT FENCE AT THE EDGE OF ALLEY & PARKING AS NEEDED & AS DEMOLITION PROGRESSES. UTILIZE EXISTING ASPHALT ENTRANCE/EXITS AND EQUIPMENT PARKING AREA. INSTALL NLET PROTECTION AROUND EXISTING INLETS AS SHOWN.
S	NFORM ALL CONTRACTORS OF AREAS TO BE PROTECTED. IF STOCKPILING TOPSOIL, IMMEDEIATELY TEMPORARY SEED AND NSTALL SEDIMENT BARRIERS AROUND THE PERIMETER.
U	REAS OUTSIDE THE IMMEDIATE WORK AREA SHALL REMAIN INDISTURBED FOR AS LONG AS PRACTICAL. INSTALL ADDITIONAL RUNOFF CONTROL MEASURES DURING GRADING AS NEEDED.
	NSTALL INLET PROTECTION AT THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AT ALL EXISTING STRUCTURES.
Т	BEGIN MAJOR GRADING AFTER INSTALLING THE KEY SEDIMENT AND RUNOFF CONTROL MEASURES. INSTALL ADDITIONAL CONTROL MEASURES AS GRADING PROGRESSES.
I	APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS WHERE WORK IS DELAYED OR COMPLETED THROUGHOUT THE PROJECT DURATION.
	INSTALL BUILDING, UTILITIES, AND DRIVEWAY. INSTALL CONCRETE WASHOUT BASIN BEFORE CONSTRUCTION.
1	STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS. REMOVE TEMPORARY CONTROL MEASURES AND STABILIZE.
СС	K, & (2) MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF RAINFALL. INFERENCE SHALL BE HELD AT LEAST 48 HOURS BEFORE ANY MELL NEVILS, RULE 5 TECHNICIAN @ 765–457–2114 EXT.2458.

B14. Material handling and spill prevention and spill response plan meeting the requirements in 327 IAC 2-6.1: - The Contractor shall notify the Indiana Department of Environment Management (1.800.233.7745) when spills occur and threaten water quality due to storm water runoff.

- All materials used on-site shall be stored in an orderly manner and approved containers. Materials shall be kept in their original packaging with the manufacturer's labels until ready for installation. - All materials shall be used, installed and disposed of in accordance with its manufacturer's instructions

The Contractor shall utilize re-sealable containers when storing unused materials susceptible to spillage. - The Contractor shall keep manufacturer's labels and Material Safety Data Sheets (MSDS) on site. - The Contractor shall monitor equipment and their parking areas for leaks.

B15. Material handling and storage procedures associated with construction activity: - All stormwater quality measures shall be inspected and maintained in accordance with its

respective manufacturer's recommendations and the Indiana Storm Water Quality Manual. - A self-monitoring program that includes the following must be implemented, by the Contractor: - A trained individual shall perform a written evaluation of the project site:

* By the end of the next business day following each 1/2-inch storm event; and

* The maintenance of existing stormwater quality measures to ensure they are functioning properly; and * Identify additional measures necessary to remain in compliance with all applicable statutes and rules. * The name of the individual performing the evaluation;

* Problems identified at the project site; and * Details of corrective actions recommended and completed

* at a minimum of one time per week.

Vritten evaluation reports must include:

The evaluation must address:

* The date of the evaluation:

C. STORMWATER POLLUTION PREVENTION PLAN - POST CONSTRUCTION COMPONENT

- C1. Description of pollutants and their sources associated with the proposed land use: - Oil, grease, antifreeze, brake fluid, brake dust, rubber fragments, gasoline, diesel fuel,
- other hydrocarbons and metals from vehicular sources. Grit (sediment) from wearing of the road surface and falling off vehicular sources. Trash, bacteria and biological agents in trash, from littering or improper disposal or storage.
- Pesticides, herbicides and fertilizers from lawn/landscaping maintenance applications. - Elevated receiving water temperatures from stormwater runoff contact with impervious surfaces. C2. Description of proposed post-construction stormwater measures:
- The Owner shall monitor the pavement for pollutants deposited from vehicular sources. The Owner shall use approved absorption materials to clean up such hydrocarbon pollutants.
- The Owner shall periodically monitor the site for trash, debris, and grit deposited on site. The Owner shall pick up debris and sweep the parking lot and dispose of in an approved manner.
- The Owner shall minimize lawn/landscaping chemical applications. - Parking lots graded to sheet flow directly to detention basins via vegetated swales and/or filter strips,
- or to flow to area drains and conveyed to detention basins via storm sewers. The detention basin has been designed to allow sediment in the runoff entering the basin time to settle out prior to being discharged.
- The existing & proposed vegetated areas beyond the proposed pavement will cause infiltration of runoff and trap pollutants before they leave the site. - The vegetated swales and detention basin will be utilized to filter pollutants, reduce runoff velocities, and help lower the temperature of the runoff before it reaches the receiving water.

$\sim\sim\sim\sim\sim\sim\sim\sim$ C3. Plan details for each stormwater measures: Refer to the Sheet C-103 for the locations of the respective control measures. Dimensions, specifications and details of the measures are depicted on Sheets C-105. Other practices which may be implemented shall be utilized and installed in accordance with the manufacturer's instructions.

- C4. Sequence describing stormwater measure implementation: - Site monitoring for trash, debris, and deposited pollutants shall be a daily routine.
- The use of vegetated filters around the exterior of the site are existing and will remain a permanent aspect of the site.
- Absorption materials used to clean up hydrocarbon puddles shall be approved by the EPA. - Disposal of all trash, debris, and pollutants shall be in a manner approved by their respective governmental agencies.
- Once the site is stablized and vegetation is established, all temporary erosion control measures may be removed inlcuding the rock dam in the detention basin. The restricted discharge of the detention basin will aid in sediment settling/removal after the project is complete.
- C5. Maintenance guidelines for proposed post-construction stormwater measures: - Site monitoring for trash, debris, and deposited pollutants shall be a daily routine and shall be the repsonsibility of the Owner upon stabilization of the site by contractor.
- The existing/proposed vegetated areas throughout the site shall be monitored and maintained by the Owner for trapped pollutants and erosion. - The owner shall moniter and maintain the embarkments/slopes for damage or erosioin(annually), sediment accumulation(annually) throughout the site and within the detention basin, the energy dissipators for deterioration/damage(annually), and vegetation coverage(as needed annually). All deficiencies shall be
- C6. Entity that will be responsible for operation and maintenance of the post-construction stormwater measures: FRANKLIN TOWNSHIP COMMUNITY SCHOOL CORPORATION EDGEWOOD INTERMEDIATE SCHOOL 7620 EDGEWOOD AVENUE
- INDIANAPOLIS, INDIANA 46239 (317) 803-8200

fixed/resolved immediately

MAINTENANCE NOTES

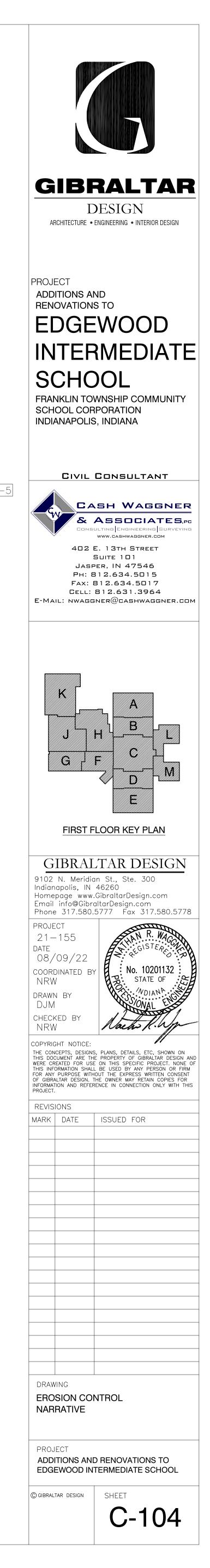
- STRAW BALE DAM MAINTENANCE REQUIREMENTS 1. INSPECT STRAW BALES AFTER EACH STORM EVENT AND PROMPTLY REMOVE ANY SEDIMENT
- DEPOSITS TO ENSURE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN, TAKING CARE NOT TO UNDERMINE THE ENTRENCHED BALES. 2. INSPECT PERIODICALLY FOR DETERIORATION FROM DRAINAGE OR CONSTRUCTION ACTIVITIES
- AND REPAIR IMMEDIATELY 3. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED REMOVE ALL STRAW BALES AND SEDIMENT; BRING THE DISTURBED AREA TO GRADE AND STABILIZE IT.
- SLIT FENCE MAINTENANCE REQUIREMENTS
- 1. INSPECT 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 CAUSING THE FABRIC TO BULGE. 4. TAKE CARE TO AVOID UNDERMINING THE SILT FENCE DURING CLEAN OUT. 5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE AND STABILIZE.
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS
- 1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. 2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
- 3. TOPDRESS WITH CLEAN STONE AS NEEDED. 4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY
- BRUSHING OR SWEEPING. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. 5. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.
- TEMPORARY SEDIMENT TRAP/BASIN MAINTENANCE REOUIREMENTS 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 IF 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 AREA TO MAINTAIN DESIGN ELEVATION.
- 6. PROMPTLY REPLACE ANY DISPLACED RIPRAP 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. SMOOTH THE SITE TO BLEND WITH ADJOINING AREAS, AND STABILIZE.
- STONE BAG CURB INLET PROTECTION MAINTENANCE REQUIREMENTS 1. INSPECT DAILY.
- 2. REMOVE ACCUMULATED SEDIMENT FROM PAVED AREA (DO NOT FLUSH WITH WATER) AFTER EACH STORM EVENT. DEPOSIT SEDIMENT IN AN AREA WHERE IT WILL NOT RE-ENTER THE PAVED AREA OR STORM DRAINS.
- 3. INSPECT FOR DAMAGE BY VEHICULAR TRAFFIC AND REPAIR IF NEEDED. 4. WHEN THE CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED, REMOVE INLET PROTECTION.
- RIPRAP MAINTENANCE REQUIREMENTS 1. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING, AND EROSION AT EDGES ESPECIALLY DOWN STREAM OR DOWN SLOPE.

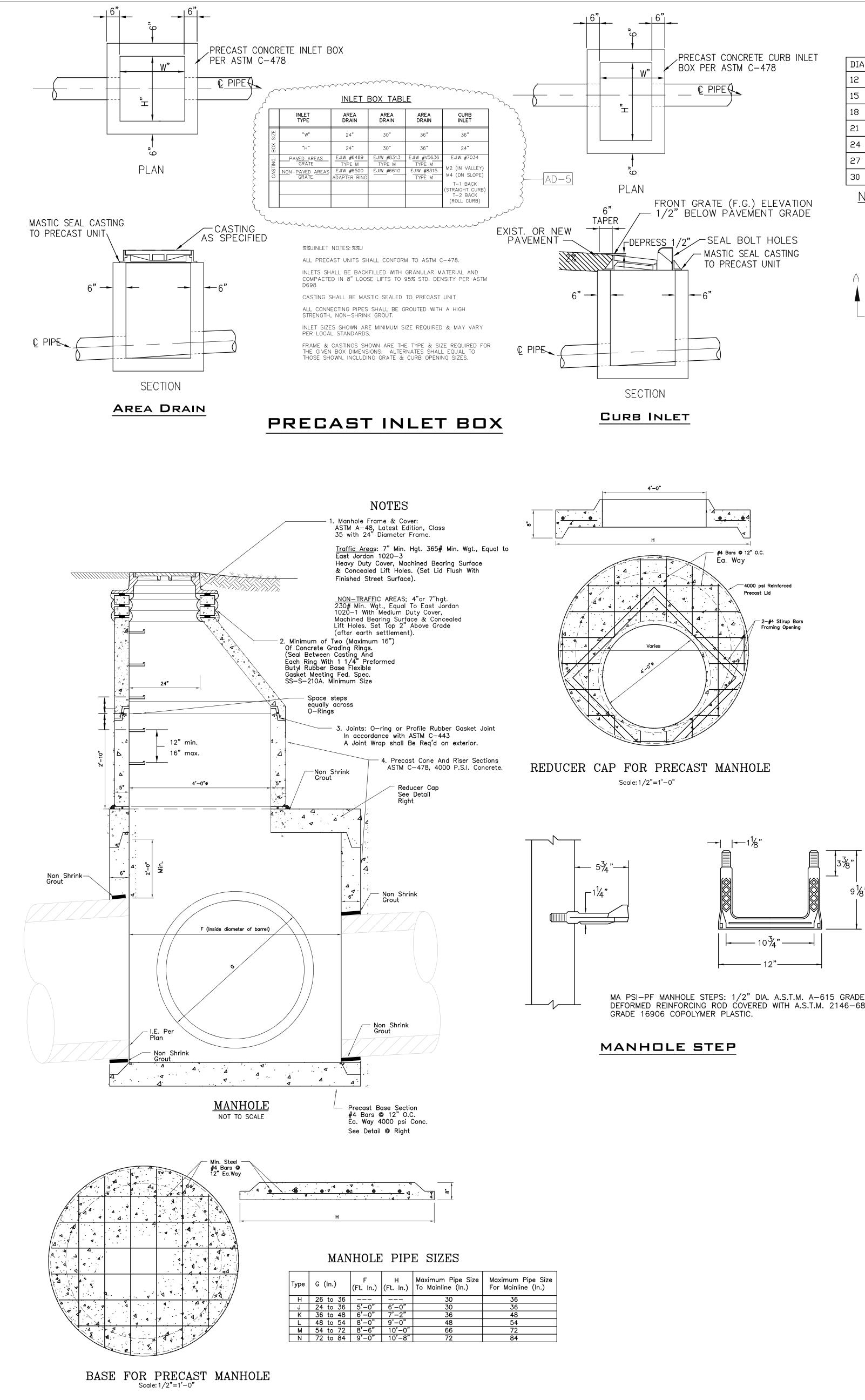
Table 1. Permanent Seeding Recommendations

Open Low-Maintenance Areas (remaining idle more than six months)				
Seed Mixtures	Rate/acre Pure Live Seed	Optimum Soil pH		
 Perennial ryegrass white clover * 	70 lbs. 2 lbs.	5.6 to 7.0		
2. Perennial ryegrass - tall fescue	70 lbs. 50 lbs.	5.6 to 7.0		
3. Tall fescue - white clover *	70 lbs. 2 lbs.	5.5 to 7.5		
Steep Banks and Cuts, Low	-Maintenance Areas	(not mowed)		
Seed Mixtures	Rate/acre Pure Live Seed	Optimum Soil pH		
 Smooth brome grass red clover * 	35 lbs. 20 lbs.	5.5 to 7.0		
2. Tall fescue - white clover *	50 lbs. 2 lbs.	5.5 to 7.5		
3. Tall fescue - red clover *	50 lbs. 20 lbs.	5.5 to 7.5		
 4. Orchard grass - red clover * - white clover * 	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0		
5. Crownvetch * - tall fescue	12 lbs. 30 lbs.	5.6 to 7.0		

oH	Lawns and High-Maintenan Seed Mixtures	Rate/acre Pure Live Seed	Optimum Soil pH
	1. Bluegrass	140 lbs.	5.5 to 7.0
_	2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
	 Tall fescue (turf type) bluegrass 	170 lbs. 30 lbs.	5.6 to 7.5
	Channels and Areas of Con	centrated Flow	
он	Seed Mixtures	Rate/acre Pure Live Seed	Optimum Soil pH
	 Perennial ryegrass white * 	150 lbs. 2 lbs.	5.5 to 7.0
	 Kentucky bluegrass smooth bromegrass switchgrass timothy perennial ryegrass white clover 	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
	3. Tall fescue * - white clover	150 lbs. 2 lbs.	5.5 to 7.5
	 4. Tall fescue perennial ryegrass Kentucky bluegrass 	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

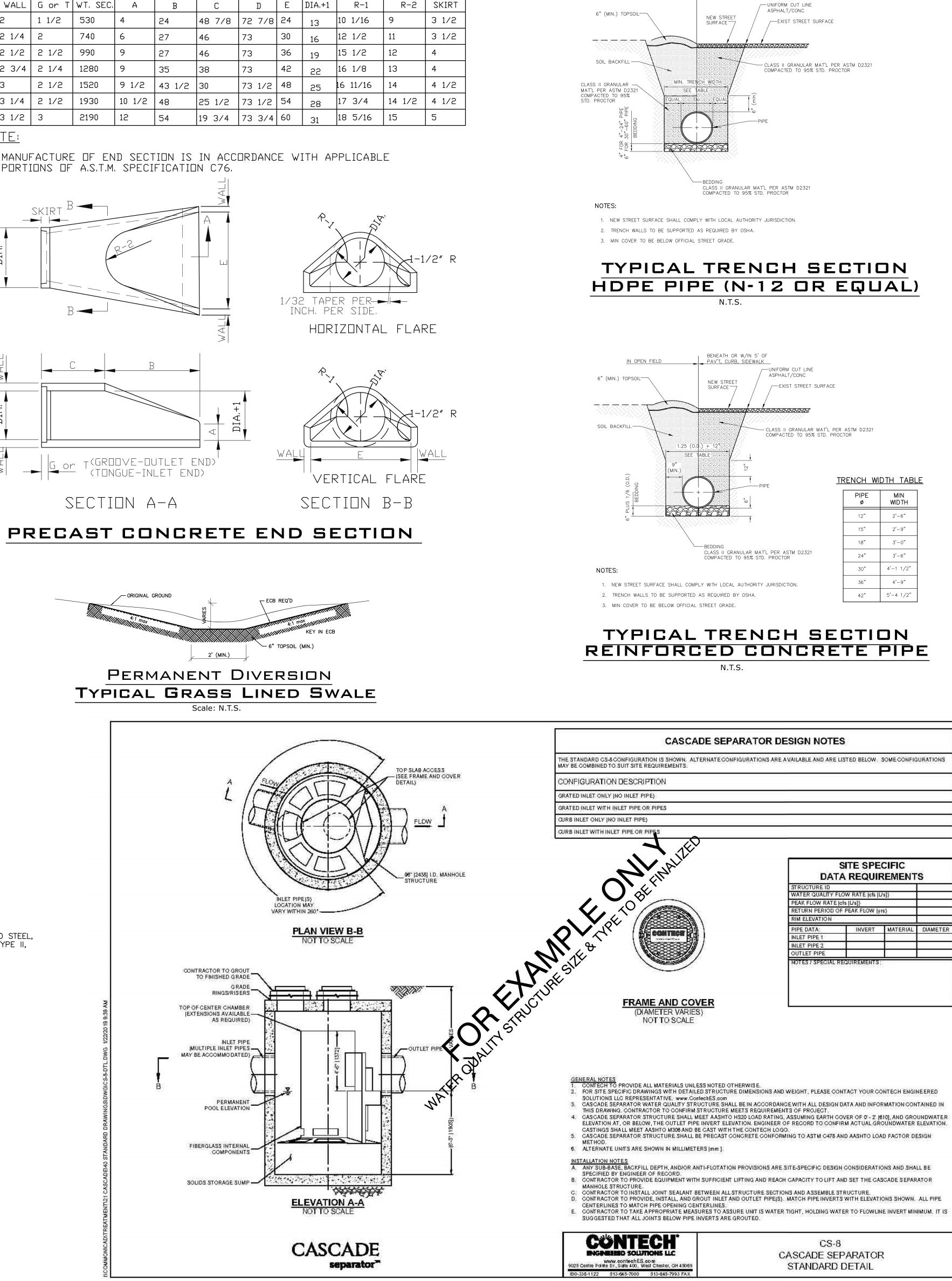
may be fall-seeded and the legume frost-seeded; and (c) if legumes are fall-seeded, do so in early fall.





LAST SAVED BY:DN 25WATERDETL.DWG day, 8/02/2022)BS\5025\CIVIL\\$

MA PSI-PF MANHOLE STEPS: 1/2" DIA. A.S.T.M. A-615 GRADE 60 STEEL, DEFORMED REINFORCING ROD COVERED WITH A.S.T.M. 2146-68, TYPE II,



BENEATH OR W/IN 5' OF PAV'T, CURB, SIDEWALK

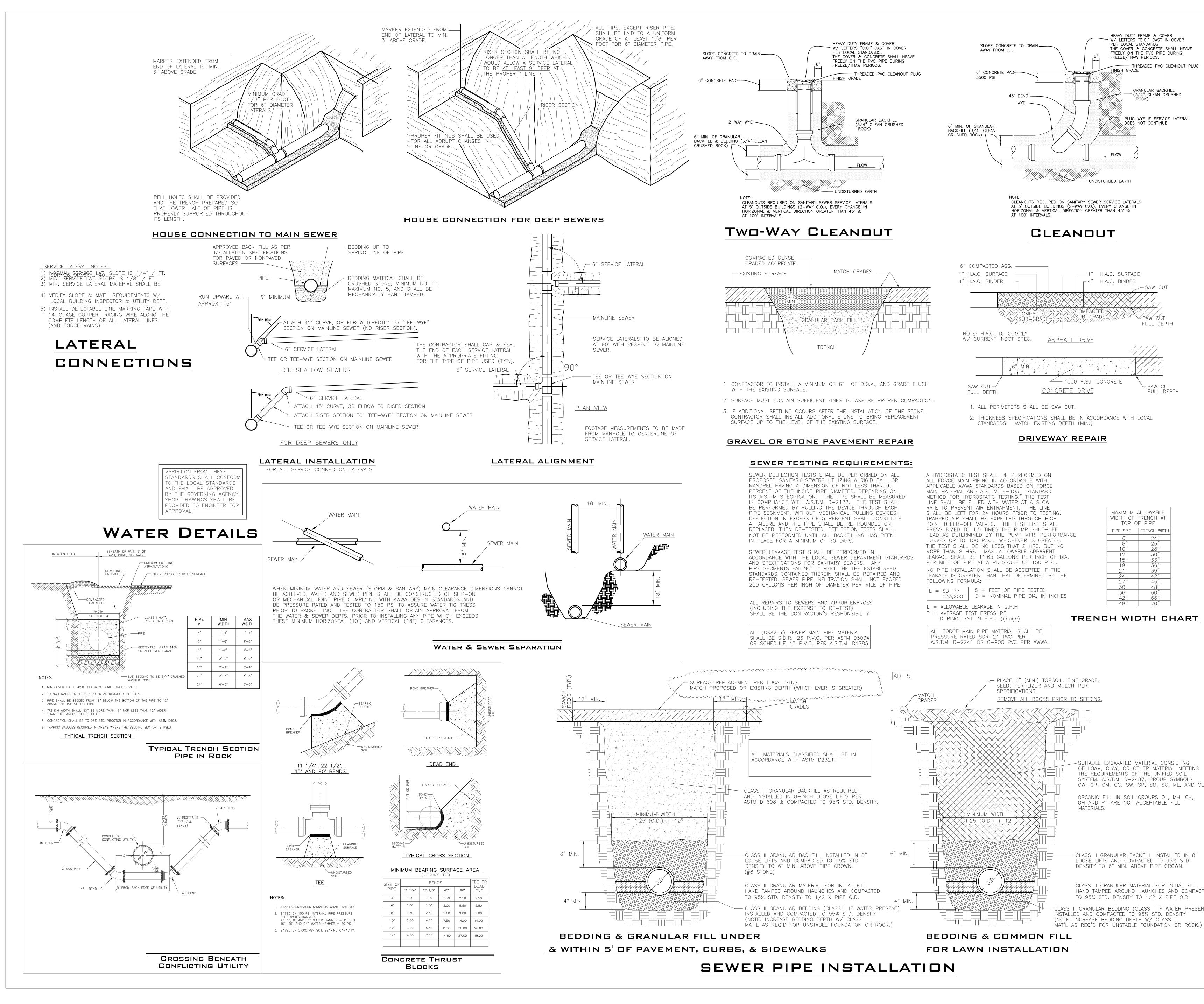
IN OPEN FIELD

<u>NDTE:</u> MANUFACTURE OF END SECTION IS IN ACCORDANCE WITH APPLICABLE PORTIONS OF A.S.T.M. SPECIFICATION C76

SKIRT

DIA.	WALL	G or T	WT. SEC.	А	В	С	D	E
12	2	1 1/2	530	4	24	48 7/8	72 7/8	24
15	2 1/4	2	740	6	27	46	73	30
18	2 1/2	2 1/2	990	9	27	46	73	36
21	2 3/4	2 1/4	1280	9	35	38	73	42
24	3	2 1/2	1520	9 1/2	43 1/2	30	73 1/2	48
27	3 1/4	2 1/2	1930	10 1/2	48	25 1/2	73 1/2	54
30	3 1/2	3	2190	12	54	19 3/4	73 3/4	60

	RALTAR ESIGN ENGINEERING • INTERIOR DESIGN
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