

ADDENDUM SUMMARY

Addendum #6

Date: 03/05/2024

Project: 2024 – Fishers Elementary School Addition & Renovations

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein.

This Addendum includes the following attachments:

- 1. CSO Cover Sheet "Addendum #6" dated 3/01/24
- 2. Cripe reissue of Civil "C" drawings dated 3/01/24 Addendum #6
- 3. Bid Package 32A Paving & Stone Pricing Evaluation (Add this to BP 32A to review revised pricing instructions)

End Addendum



ADDENDUM



ADDENDUM NO: 06

BID PACKAGE NO: N/A

PROJECT: 2024 – Fishers Elementary School Addition and Renovations

PROJECT NO: 2021119 DATE: 03/01/2024 BY: Josh Cannaday

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

ATTACHMENTS

CSO Addendum No.6 Cover Page, page 1 See attached Addendum by: CRIPE

PART 1 - GENERAL INFORMATION

1.1 NOT USED

PART 2 - BIDDING REQUIREMENTS

2.1 NOT USED

PART 3 - SPECIFICATIONS

3.1 NOT USED

PART 4 - DRAWINGS

4.1 NOT USED

PART 5 - QUESTIONS AND AWSNERS

5.1 NOT USED

END ADDENDUM

HSE Fishers Elementary School

Bid Package 32A- Paving & Stone

Pricing Evaluations:

- I. Asphalt: The base project will be bid with 2024 pricing information.
 - 1. Upon BP 32A award the contractor will define the base, surface tonnage per year 2024, 2025 and 2026.
 - 2. The 2024 tonnage pricing will be defined that the BP 32A contactor used for the bid
 - a. Asphalt
 - i. INDOT HMA 19mm intermediate Type B
 - ii. INDOT HMA 9.5 mm Surface Type B
 - 3. 2025 and 2026 Pricing Evaluation: The INDOT PG asphalt binder index will be used to increase/decrease the BP contract for the 2025/2026 tonnages:
 - a. The binder index will be compared to the 2024 May-July average and the % increase/decrease will be adjusted.
 - i. Example- 2024 Binder Index May-July avg \$558/TN

The amount in 2025 the month of paving ends up being \$575/TN

Then the tonnage price will be increased by:

\$575/TN-\$558/TN=\$17/TN/\$558/TN= 3.0%

- II. Stone: Figure based on the 2024 pricing with a 5% increase for years 2025 & 2026.
 - 1. Upon BP 32A award the contractor will define the stone tonnage/Pricing in 2024, 2025 and 2026.
 - 2. If the local pricing at the time of placement in 2025 & 2026 exceeds the 5% then the contract will be adjusted.

OWNER:

HAMILTON SOUTHEASTERN SCHOOLS 13485 CUMBERLAND ROAD FISHERS, IN 46038 DISTRICT OFFICE: (317) 594-4100 (317) 594-4109 FAX

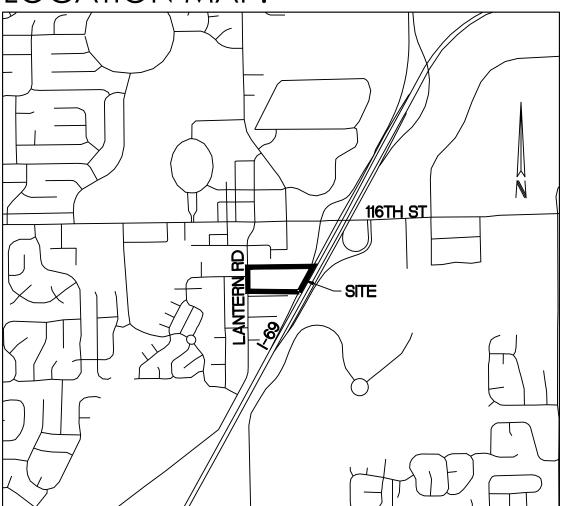
ENGINEER:



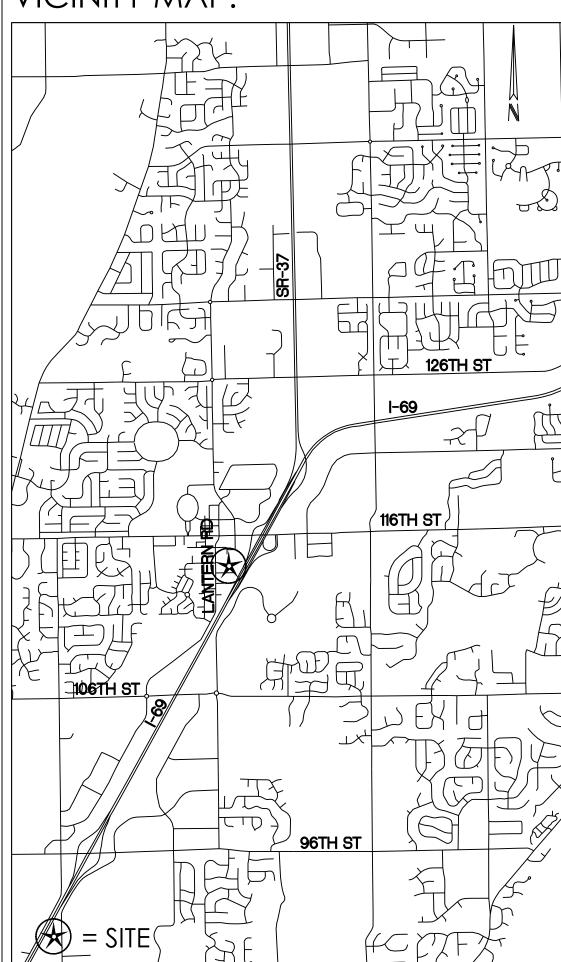
Solutions by Design Since 1937

9339 PRIORITY WAY WEST DRIVE, SUITE 100 INDIANAPOLIS, INDIANA 46240 CONTACT: DAVID LACH

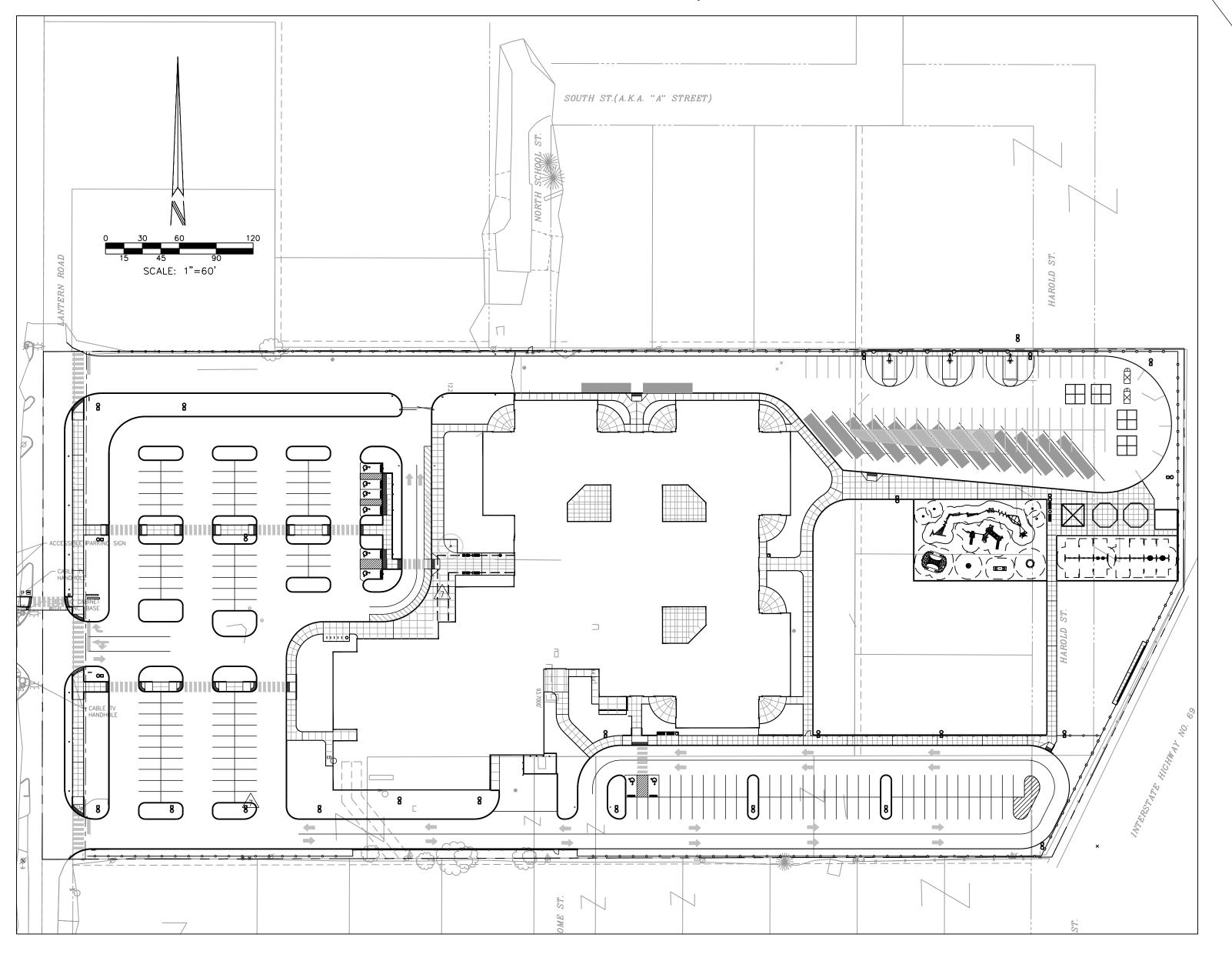
LOCATION MAP:



VICINITY MAP:



CONSTRUCTION PLANS FISHERS ELEMENTARY SCHOOL FISHERS, IN



THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT FISHERS CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DETAILS. THE OMISSION OF ANY CURRENT

THE CONTRACTOR SHALL SCHEDULE A SITE PRE-CONSTRUCTION MEETING WITH THE FISHERS DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY CONSTRUCTION ON THE SITE BEING STARTED.

ALL ROADS MUST BE BROUGHT BACK TO ORIGINAL OR BETTER CONDITION, INCLUDING BUT NOT LIMITED TO PAVEMENT MARKINGS, CURB / STONE SHOULDERS, SIGNAGE, ETC. REPAIRS SHALL

THE FINAL SITE INSPECTION WILL NOT BE PERFORMED BY THE FISHERS DEPARTMENT OF ENGINEERING INSPECTOR UNTIL ALL SITE AND RIGHT-OF-WAY WORK IS COMPLETED.

SITE RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED IN THE FISHERS STANDARD FORMAT PRIOR TO ENGINEERING DEPARTMENT RELEASE OF THE COMPLETED SITE.

UTILITY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY OR WITHIN 5' OF EXISTING PUBLIC RIGHT-OF-WAY PAVEMENT REQUIRES REMOVABLE FLOWABLE FILL.

A CITY OF FISHERS RIGHT-OF-WAY ACTIVITY PERMIT IS REQUIRED FOR UTILITY WORK CROSSING EXISTING PUBLIC RIGHT-OF-WAY.

STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

THE DESIGN AND CONSTRUCTION SHALL COMPLY WITH ALL ADA STANDARDS.

COINCIDE WITH THE ADJOINING ROAD.

LEGAL DESCRIPTION:

Corporate Warranty Deed (Inst. No.: 88-11592)

Property at Fishers Elementary School:

Part of the Northwest Quarter of Section 6, Township 17 North, Range 5 East, in Delaware Township, Hamilton County, Indiana described as follows:

Commencing at the Northwest corner of the Northwest Quarter of Section 6, Township 17 North, Range 5 East; thence South 00 degrees 00 minutes 00 seconds East (assumed bearing) on the West line of said Northwest Quarter 693.00 feet to the POINT OF BEGINNING of the real estate herein described; thence continuing South 00 degrees 00 minutes 00 seconds East on said West line 412.50 feet; thence North 89 degrees 44 minutes 02 seconds East parallel with the North line of said Northwest Quarter 804.22 feet to the Southeast corner of Lot 36, in Richard E. Harold 1st subdivision recorded in Deed Record 132, Pages 359-360 in the Office of the Recorder of Hamilton County, Indiana; thence South 89 degrees 47 minutes 00 seconds East 16.16 feet to the Northeasterly right-of-way line of interstate #69 as established per the plans for Project # I-69-1(33)0; thence North 26 degrees 11 minutes 56 seconds East on said right-of-way line 241.98 feet; thence North 00 degrees 00 minutes 00 seconds West parallel with the West line of said Northwest Quarter 196.01 feet to a point which extends North 89 degrees 44 minutes 02 seconds East 927.22 feet from the Point of Beginning; thence South 89 degrees 44 minutes 02 seconds West parallel with the North line of said Northwest Quarter 927.22 feet to the Point of Beginning; containing 8.515 acres, more or less.

Subject to any and all liens, easements, agreements and restrictions of record.

PROJECT DATA:

PROJECT ADDRESS

11442 LATERN RD FISHERS, IN 46038

PROJECT AREA BUILDING AREA

STANDARD SPACES PROPOSED ACCESSIBLE SPACES PROPOSED 8 SPACES 13 SPACES

185 SPACES TOTAL PARKING SPACES

SHEET INDEX:

BUS SPACES PROPOSED

SHEET DESCRIPTION

C101-C102 DEMOLITION PLAN

C301-C302 GRADING PLAN

C401-C403A EROSION CONTROL PLAN

STORMWATER POLLUTION PREVENTION PLAN C501-C502 UTILITY PLAN

MAINTENANCE OF TRAFFIC PLAN

C706-C708 STORM SEWER DETAILS

C902-930 | CITY OF FISHERS STANDARD DETAILS L100-L103 | LANDSCAPE PLAN

CITY OF FISHERS STANDARD CONSTRUCTION DETAILS:

TYPICAL SECTIONS AND PAVEMENT

DRIVEWAY AND MICELLANEOUS ROADWAY DETAILS

SIDEWALK AND CURB RAMP DETAILS **ROUNDABOUT DESIGN DETAILS**

HANDRAIL AND FENCE DETAILS

18-23 / 29 | SANITARY SEWER DETAILS

24-27 / 29 EROSION CONTROL DETAILS 28 / 29 SIGN AND PAVEMENT MARKING DETAILS

29 / 29 | LIGHTING DETAILS

BENCHMARKS:

HSE 15 - SET DISK BY <u>HSE</u> UTILITIES - 4INCH DIAMETER ALUMINUM DISK STAMPED "HAMILTON SOUTHEASTERN UTILITIES" hse 15. SET IN CONCRETE ± 45 FEET SOUTH AND ±11 FEET EAST OF THE SOUTHEAST CORNER OF CUMBERLAND ROAD BRIDGEABUTMENT OVER 1-69. YEAR ESTABLISHED 1997.

ELEV.=846.46 [NAVD 1988(GEOID12A)]

TBM #1 MAGSPIKE SET IN A POWERPOLE LOCATED AT THE NORTHWEST CORNER OF LOT 26, R.E HAROLDS 1ST SUBDIVISION

ELEV. = 820.33

AGENCY & UTILITY INFO:

PHONE NUMBER FISHERS PLANNING & ZONING 317-595-3155 FISHERS DEPARTMENT OF ENGINEERING 317-595-3160 FISHERS FIRE DEPARTMENT 317-595-3200 HAMILTON COUNTY SURVEYOR 317-776-8495 **DUKE ENERGY** 317-776-5348 CENTERPOINT ENERGY 317-776-5532

CITIZENS ENERGY GROUP

317-610-5472 317-774-3384 317-927-4377

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

CRIPE TEAM:

PROJECT MANAGER

DAVID LACH, PE

317-706-6361

PROJECT NUMBER 2021119

DRAWING TITLE:

REVISIONS:

02/12/24 ADDENDUM #4

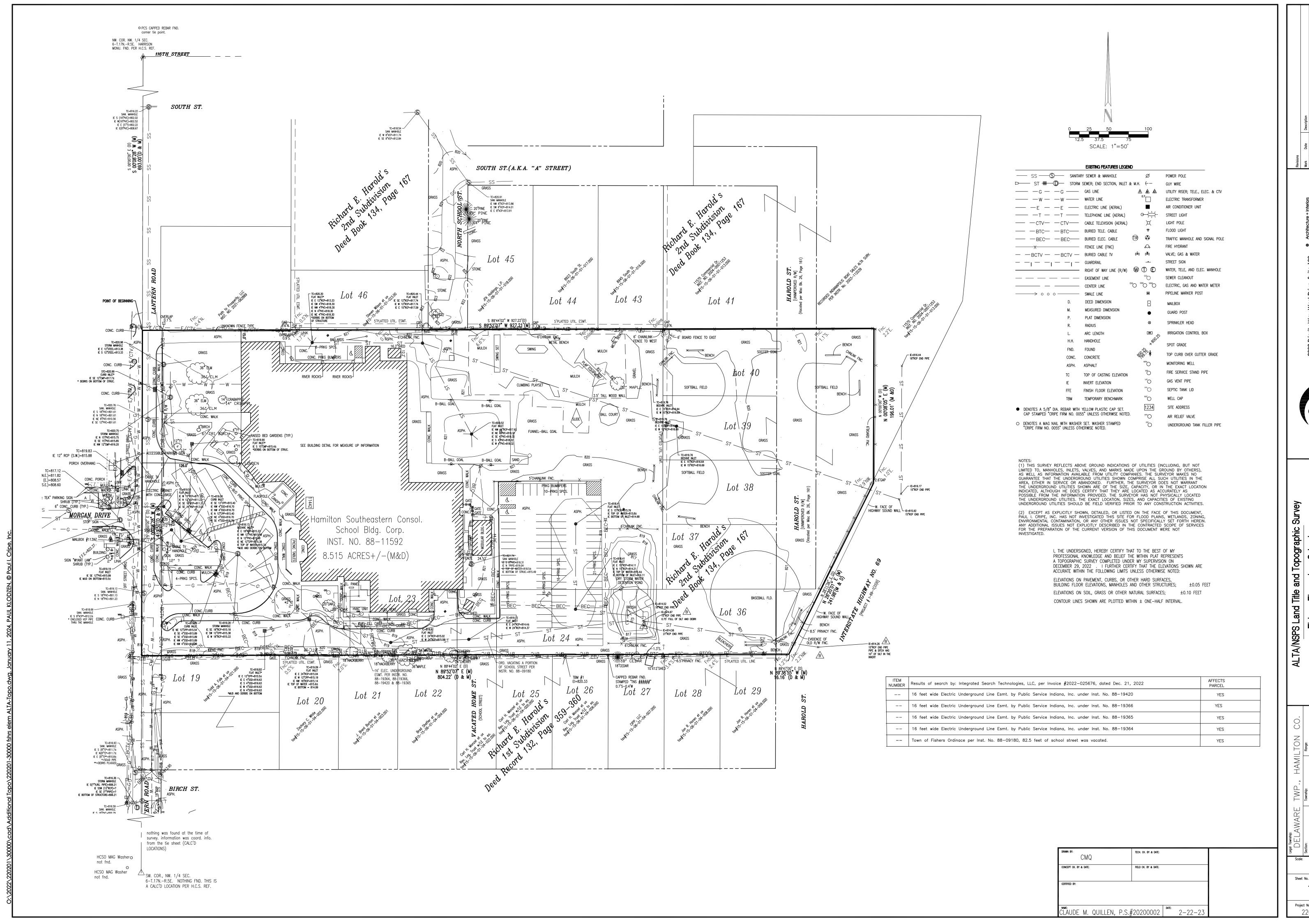
03/01/24 ADDENDUM #6

COVER SHEET

CERTIFIED BY:



DRAWING NUMBER



Architecture + Interiors
 Civil Engineering
 Survey + Construction Engineering
 Energy + Facilities
 Equipment Planning
 Real Estate Services

9339 Priority Way West Drive, Suite 100 Indianapolis, Indiana 46240 (317) 844-6777 E-Mail cripe@cripe.biz



Fishers Elementary School

Hamilton Southeastern School
13845 Cumberland Road

ON SOUTHEASTERN

OL. SCHOOL BLDG. CORP.

1" =50'

1 of 2

Project Number 220201 — 30000

I, the undersigned Registered Land Surveyor, hereby certify to the best of my information, knowledge and belief, that the included plat correctly represents a survey performed under my direction during December 2022 of the following described real estate:

(ALTA Table 'A' Item 4, Gross Area)

Owner Name on Deed: HAMILTON SOUTHEASTERN CONSOLIDATED SCHOOL BUILDING CORPORATION. Corporate Warranty Deed (Inst. No.: 88-11592)

Property at Fishers Elementary School:

Part of the Northwest Quarter of Section 6, Township 17 North, Range 5 East, in Delaware Township, Hamilton County, Indiana described as follows:

Commencing at the Northwest corner of the Northwest Quarter of Section 6, Township 17 North, Range 5 East; thence South 00 degrees 00 minutes 00 seconds East (assumed bearing) on the West line of said Northwest Quarter 693.00 feet to the POINT OF BEGINNING of the real estate herein described; thence continuing South 00 degrees 00 minutes 00 seconds East on said West line 412.50 feet; thence North 89 degrees 44 minutes 02 seconds East parallel with the North line of said Northwest Quarter 804.22 feet to the Southeast corner of Lot 36, in Richard E. Harold 1st subdivision recorded in Deed Record 132, Pages 359-360 in the Office of the Recorder of Hamilton County, Indiana; thence South 89 degrees 47 minutes 00 seconds East 16.16 feet to the Northeasterly right-of-way line of interstate #69 as established per the plans for Project # I-69-1(33)0; thence North 26 degrees 11 minutes 56 seconds East on said right-of-way line 241.98 feet; thence North 00 degrees 00 minutes 00 seconds West parallel with the West line of said Northwest Quarter 196.01 feet to a point which extends North 89 degrees 44 minutes 02 seconds East 927.22 feet from the Point of Beginning; thence South 89 degrees 44 minutes 02 seconds West parallel with the North line of said Northwest Quarter 927.22 feet to the Point of Beginning; containing 8.515 acres, more or less.

Subject to any and all liens, easements, agreements and restrictions of record.

This is to certify that no portion of the property is located within a Special Flood Hazard Area (Zone AE) as said property plots by scale (subject to map scale uncertainty and to any other uncertainty in location or elevation) on Community Panel No. 18057C 0234G of the Flood Insurance Rate Maps (published by Federal Emergency Management Agency — FEMA) dated November 19, 2014. The subject property is located in Zone X unshaded (Areas determined to be outside 0.2% annual chance floodplain)

PROPERTY ADDRESS: 11442 Lantern Road, Fishers, IN 46038

(per County GIS) Property Owner's Address Hamilton Southeastern Consol. School Bldg. Corp. 13485 Cumberland Road, Fishers, IN 46038

PARKING COUNT STATEMENT:

Existing Available Parking Spaces: Regular Parking Spaces = Temp. Bus parking Spaces= <u> Handicapped Parking Space = </u> Total Parking Spaces =

<u>UNDERGROUND UTILITIES NOTE:</u>

The within survey reflects the location of above ground visible evidence of utility lines such as poles, riser pedestals, transformers, manholes, vault covers, valve boxes and fire hydrants, et cetera. Requests for underground utility location markings were made through Indiana 811 on December 2, 2022, Ticket Numbers: 2212021316, 2212021333, and 2212021345. 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 warrant 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. The user of this survey is cautioned that there may be buried utility lines, either in service or abandoned, or other underground facilities existing on the premises which are not shown on the within survey, or which are shown hereon but the location of which is uncertain. Unless otherwise noted, the surveyor has not physically located any buried utility lines and the surveyor assumes no liability for any errors or omissions relative to underground utility lines or other buried facilities.

Request for additional underground utility location markings were made through GPRS for the following utilities: Electric, Communications, Natural Gas Water, Strom sewer and Sanitary sewers, under Workorder Number 511101—16287 on December 15, 2022. (Contact person is Darren Guetig). This survey reflects above ground indications of utilities and information available from utility companies, IN811 and GPRS. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned.

THEORY OF LOCATION

Reference: An 80—year search was ordered by this firm from Integrated Search Tech. (IST) for easements and rights—of—way affecting the subject real estate with an Effective Date of: December 21, 2022. See title commitment table on the face of the survey. Including a Schneider survey for the Northeast adjoiner under Schn. Job No. 4152.001, dated March 29, 2002, for the Northeast adjoiner property.

REFERENCE DOCUMENTS

Reference: An ALTA/NSPS (previously known as ALTA/ACSM) Land Title Survey of the Northeast Adjoiner deed for Indianapolis Boat Sales prepared The Schneider Corp. certified by Bryan F. Catlin P.L.S. No. 910012, Job No. 4152.001 and dated March 29, 2002, recorded as Instrument Number 2003-112039, in the Office of the Recorder of Hamilton County, Indiana.

Reference: The Secondary Plat of R.E. Harold, 1st Subdivision recorded as Deed Record 132 and Pages 359-360, in the Office of the Recorder of Hamilton County, Indiana.

Reference: The Secondary Plat of R.E. Harold, 2nd Subdivision, recorded as Deed Book 134, Page 167, in the Office of the Recorder of Hamilton

This is a retracement survey of a tract of school land and retracement of the deed lines and platted lands of the within described real estate are to be performed according to the minimum standard detail requirements for a 2021 ALTA/NSPS Land Title Surveys. The surveyed land is a part of the land owned or formerly owned by "Hamilton Southeastern Consol. School Bldg. Corp." as originally described in Instrument No. 88-11592 in the Office of the Recorder of Hamilton County, Indiana. The tracts are subject to the right of way of Lantern Road on the West side and the Limited Access Right of way line for Interstate No. 69 on the East line which both adjoins said school tract as shown on the survey. The location of the corners and the lines of the subject real estate are dependent upon the location of the perimeter of the Northwest Quarter of Section 6, Township 17 North, Range 5 East, of the Second Principal Meridian.

Right-of-Way Statement

The existing Right—of—Way along Interstate Highway No. 69 (limited access R/W varies on each side of the road) was determined per Hamilton County GIS and the Sound Barrier Wall and evidence of the previous R/W fence and noted accordingly on this survey. The existing Right-of-Way along Lantern Road (Public R/W 25 feet Half Right-of-way per plat for R.E. Harold Second Subdivision) was assumed due to the platted public records for the street and noted accordingly on this survey. The existing Right—of—Way along North School St. was (Public R/W 25 feet wide on each side of the platted center line) was determined per subject plat for R.E. Harold Second Sub .and noted accordingly on this survey. The existing Right-of-Way along South Home Street (Public R/W was 25 on each side of the road centerline per plat — special note: this street appears to have been previously vacated) was determined per the tax records and noted accordingly on this survey. The existing Right-of-Way along Harold Street (unimproved Public R/W 50 feet wide) was determined per plats as 25 feet wide on each side of the platted center line) as shown on the plat for R.E. Harold's First and Second Subdivisions, was vacated per Misc. record 26, page 161.

If the existing Right—of—Way was not listed in the Title 80—Year Search or on a Plat, Deed, Right—of—Way Grant or other Legal Recorded Document (record Survey) then the existing Right-of-Way was established by physical evidence in the field and labeled as "Apparent R/W" or "App R/W" on this survey. This may or may not be the actual Right-of-Way for the Roadway. If a recorded Right-of-Way document cannot be found for this Roadway, the edge of the travel lane may become the actual Right-of-Way.

ORIGIN BENCHMARK

HSE 15 - SET DISK BY HSE UTILITIES - 4INCH DIAMETER ALUMINUM DISK STAMPED "HAMILTON SOUTHEASTERN UTILITIES" hse 15. SET IN CONCRETE ± 45 FEET SOUTH AND ±11 FEET EAST OF THE SOUTHEAST CORNER OF CUMBERLAND ROAD BRIDGEABUTMENT OVER I-69. YEAR ESTABLISHED 1997.

ELEV.=846.46 [NAVD 1988(GEOID12A)]

▼ TBM #1 MAGSPIKE SET IN A POWERPOLE LOCATED AT THE NORTHWEST CORNER OF LOT 26, R.E. HAROLDS 1ST SUBDIVISION.

ELEV. = 820.33

SURVEYOR'S REPORT

In accordance with Title 865, Article 1, Chapter 12, of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established on this survey as a result of uncertainties in reference monumentation; in record descriptions and plats; in lines of occupation; and as introduced by random errors in measurement ("Relative Positional Accuracy"). There may be unwritten rights associated with these uncertainties. The client should assume there is an amount of uncertainty along any line equal in magnitude to the discrepancy in the location of the lines of possession from the surveyed lines.

There may be differences of deed dimensions versus measured dimensions along the boundary lines shown hereon and, likewise, there may be found survey markers near, but not precisely at, some boundary corners. In cases where the magnitude of these differences is less than the Relative Positional Accuracy stated below and less than the uncertainty identified for the reference monumentation (discussed below), the differences may be considered insignificant and are shown only for purposes of mathematical closure. Such differences that are greater than the Relative Positional Accuracy and the uncertainty in reference monumentation should be considered worthy of notice and are therefore further discussed below.

This survey and report are based in part upon opinions formed in accordance with an Indiana Land Surveyor's responsibility to conduct a survey in accordance with "law or a precedent" (865 IAC 1-12-11(5), Rules of the Indiana State Board of Registration for Land Surveyors). Since Indiana has no statutes addressing how to resolve boundary lines, a solution based on principles derived from common law precedent must be relied upon as the basis for a boundary resolution.

A. Availability and Conditions of Reference Monuments

The following monuments are taken from evidence found in the field provided by the Hamilton County Surveyors Office and GIS or calculations made in the office to the locations of the section corners to determine the Northwest Quarter of Section 6, Township 17 North, Range 4 East.

Northwest corner of the Northwest Quarter of said Section 6 - A Harrison Monument was found and accepted per the Hamilton County Surveyor's Office Corner Record, County ties (corner no. 17040103). Said monument was in good condition, flush with 116th Street surface, and has been in place since August 2019 per reference tie date. The uncertainty in the location of this corner is negligible.

Point 2 (17040116)

Southwest corner of the Northwest Quarter of the Northwest Quarter of said Section 6 — This is a calculated corner, and no monument was found or set per this survey. The uncertainty in the location of this corner is based upon other corners that were found, set or calculated and is plus or minus 0.2 feet in any direction based upon that calculation. (Corner no. 17040116)

Southwest corner of the Northwest Quarter of said Section 6 - This is a calculated corner, and no monument was found or set per this survey. The uncertainty in the location of this corner is based upon other corners that were found, set or calculated and is negligible based upon that calculation. (Corner no. 17040106)

All monuments shown and noted on this survey were found or set flush with the surface, unless otherwise noted.

B. Occupation and/or Possession Lines:

The possession and occupation along the North line of the subject real estate is to a fence line along said line as shown on the survey. The possession and occupation along the East line of the subject real estate is to a 8ft tall privacy fence line NOTE: also includes the sound barrier wall 8feet \pm southwest along said line for the Interstate Highway No. 69 as shown on the survey. The possession and occupation along the South line of the subject real estate is to a fence line along said line as shown on the survey. The possession and occupation along the West line of the subject real estate is to the street improvements of Lantern Road.

Existing monumentation, fence lines and other forms of possession lines for adjoining tracts were found as shown on this survey.

C. Clarity or Ambiguity of the Record Descriptions (used and/or adjoiner's descriptions):

The deed description for the school property does close. The description entry call does place the property well from 2.6 feet North to 0.9 feet South. The qualifying calls within the description are consistent with the plats and streets and highways in the area. There are no scriveners' errors noted in the subject tract description. There is in my opinion 0.5 feet error in uncertainty in the location of the control. Special Note: two of the four section corner monuments were not found. The lines and corners of the subject tract were located hereon based on controlling calls contained in the record description for the subject

NOTE: Donaldson Street was vacated from both the R.E. Harold's 1st and 2nd Subdivisions, however, the Lots in both Subdivisions were not Vacated. So, the easements on said Lots were not affected by the Vacation document and the 5' Utility Corridor is still in affect along the back of said Lots.

The course bearings in the vesting deed are on a different bearing system then this survey. The bearings have been adjusted to match this system accordingly also there is a difference in distance of 0.01 feet in a couple of the courses this could be from a rounding error either up or down and the qualifying calls

There is a gap / overlap due to along North line of the subject tract due to qualifying calls from different deed documents The distance varies from a 0.9 feet overlap South of said North line to 2.9 feet gap North of said line for the subdivision.

The subject property abuts, without gaps gores or strips, and has vehicular and pedestrian ingress to and egress from Lantern Road but not the Limited Access to Interstate No. 69 if allowed by the local, city or state agencies, which are completed, dedicated and accepted public rights of way.

Except as shown on the survey, the subject property does not serve any adjoining property for utilities, drainage, structural support or ingress or egress.

Unless discussed above, there are no discrepancies between the record land descriptions of the subject real estate and the adjoiners. A title company and/or legal counsel should be consulted regarding any deed overlap and deed gap areas if shown on this survey. Similarly, the lines of the subject real estate are contiguous with the adjoiners' lines if no gap or overlaps are noted.

D. The Relative Positional Precision of the Measurements:

The relative positional accuracy (due to random errors in measurement) of the corners of the subject tract established on this survey is within the specifications for an Urban Survey (0.13 feet plus 50 ppm) as defined in 865 IAC 1-12-7 and the 2021 ALTA Standards.

As a result of the above observations, it is my opinion that the uncertainties in the location of the lines and corners established on this survey are as follows:

Due to Variances in reference monuments: As much as 0.2 feet North-South, 0.2 feet East-West

Due to Discrepancies in record descriptions: As much as 2.9 feet North—South, 0.5 feet East—West

Due to Inconsistencies in lines of occupation: EQUAL to the differences shown between the property line evidence found and the property lines established by this

Certification of Survey

ALTA/NSPS Land Title Survey

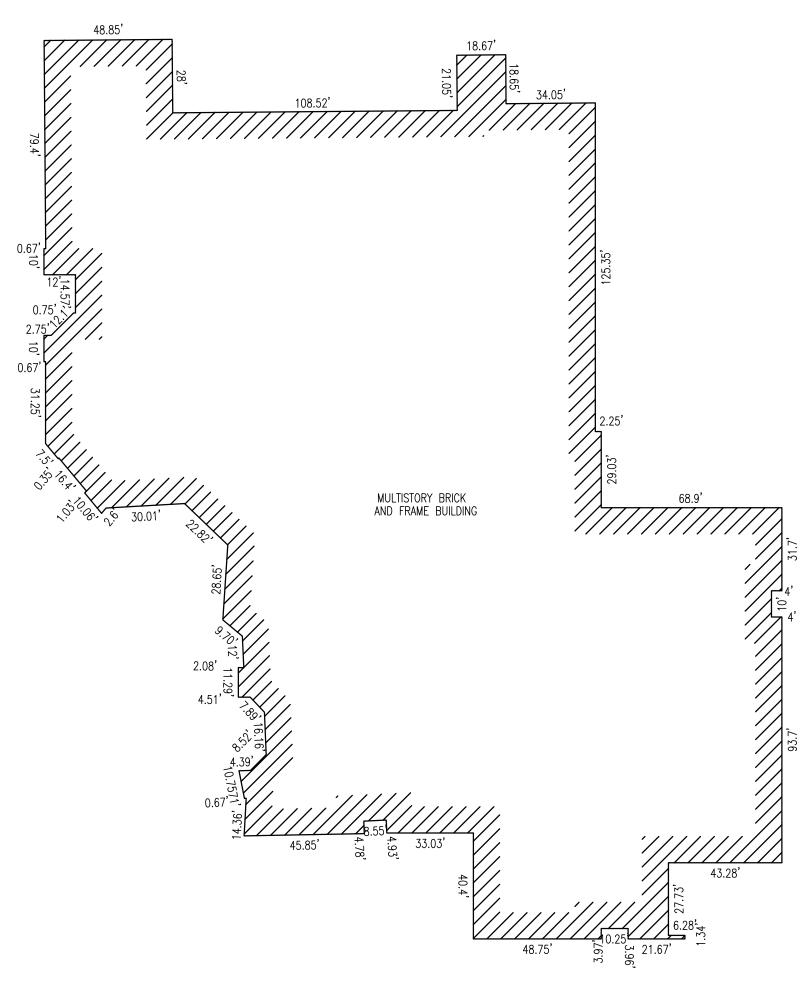
E. Positional Uncertainty:

To: HAMILTON SOUTHEASTERN CONSOLIDATED SCHOOL BUILDING CORPORATION.

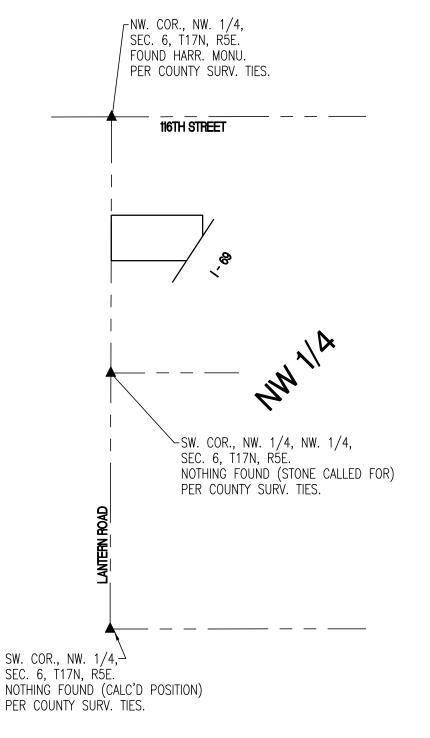
This is to certify that this map or plat and the survey on which it is based were made in accordance with 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 8, 9, 11(a), and 13 of Table A, thereof. The field work was completed on December 28, 2022.

Certified: January 10, 2023





BUILDING MEASURE-UF



Claude M. Quillen, P.S.

QUARTER SECTION MAP NW. QTR. OF SECTION 6, TOWNSHIP 17 NORTH, RANGE 5 EAST. NOT TO SCALE

CMQ



This instrument was prepared by: Claude M. Quillen, P.S.

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law.

CONCEPT CK. BY & DATE: NAME: CLAUDE M. QUILLEN P.S.#20200002 DATE: 2-22-23

TECH. CK. BY & DATE:

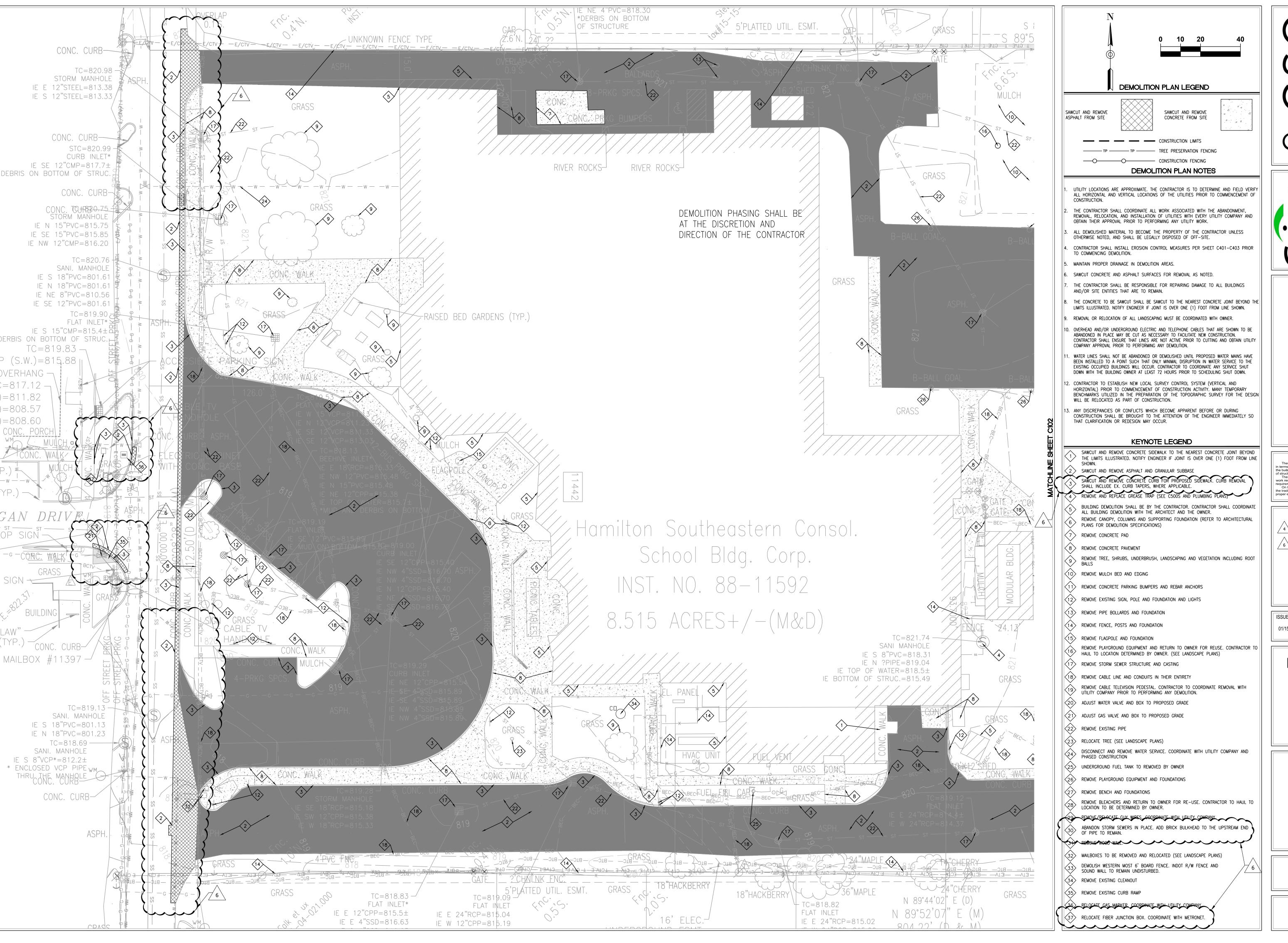
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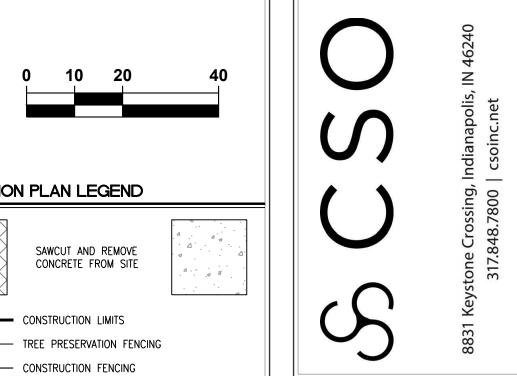
SCH00LS

TA/NSPS AMILTON

2 of 2

220201-30000





SCOPE DRAWINGS: building, the major architectural elements and the type work required for full performance and completion of the

REVISIONS:

02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

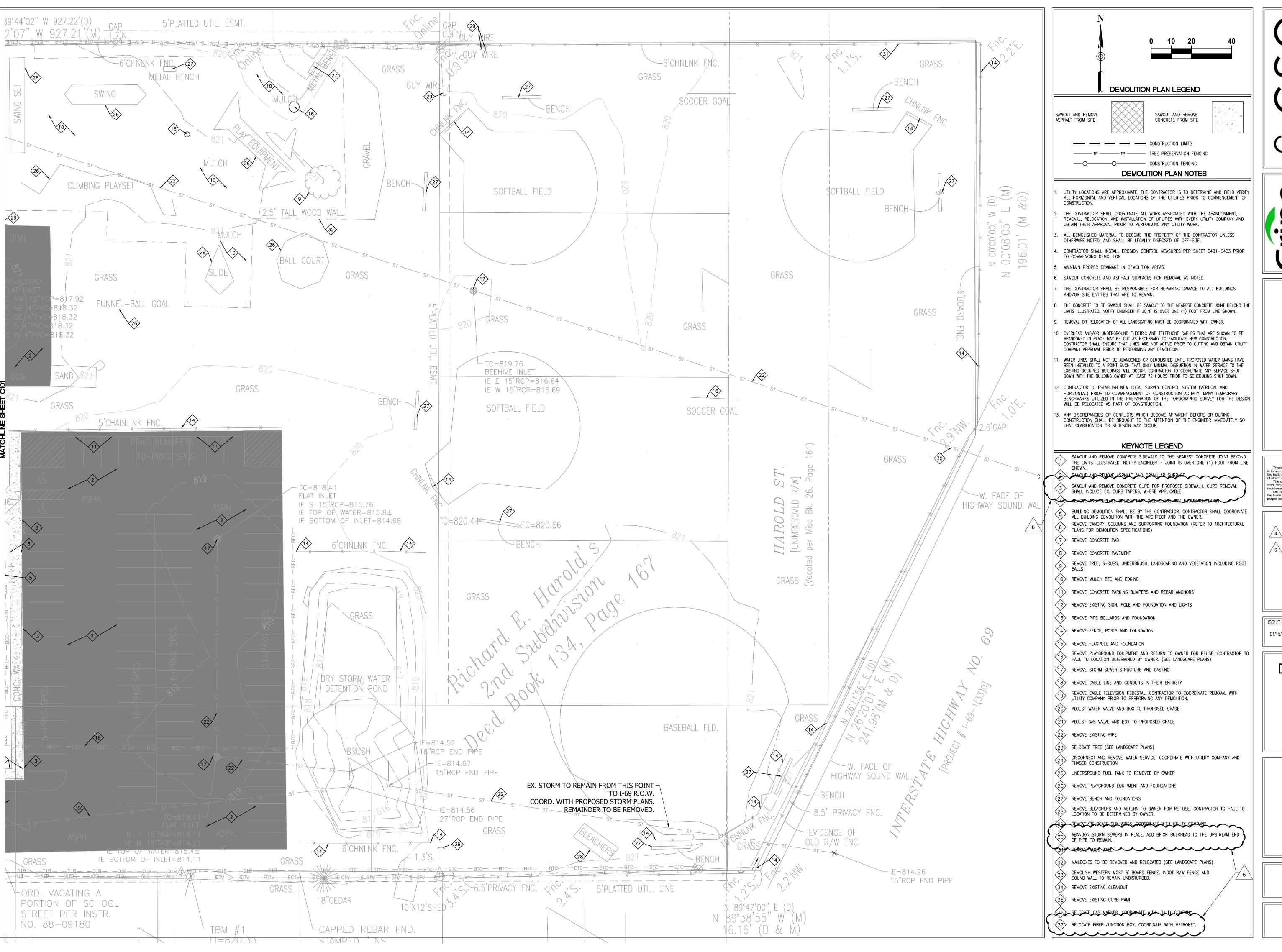
ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023 KDK

> DRAWING TITLE: DEMOLITION PLAN

> > **CERTIFIED BY:**



DRAWING NUMBER



Seystone Crossing, Indianapolis, IN 46240 317.848.7800 | csoinc.net

Olutions by Design Since 1937

PRIORITY WAY WEST DRIVE SUITE 100

OF CAN ENGREENE SOANING

INDIANA 46240

SINCH'S SACHIECTURE + INTERONS

SINCH'S SACHIECTURE + INTERONS

SINCH'S SACHIECTURE + INTERONS

SURVEY + SACHIECTURE + INTERONS

WWW.CTÓP & LOG SUPPRET SACHIECTURE

OF COMPANIENT SACHIECTURE

REAL ESTATES SERVICES

REAL ESTATES SERVICES

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

SCOPE DRAWINGS:

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

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

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

REVISIONS:

02/12/24 ADDENDUM #4
03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY

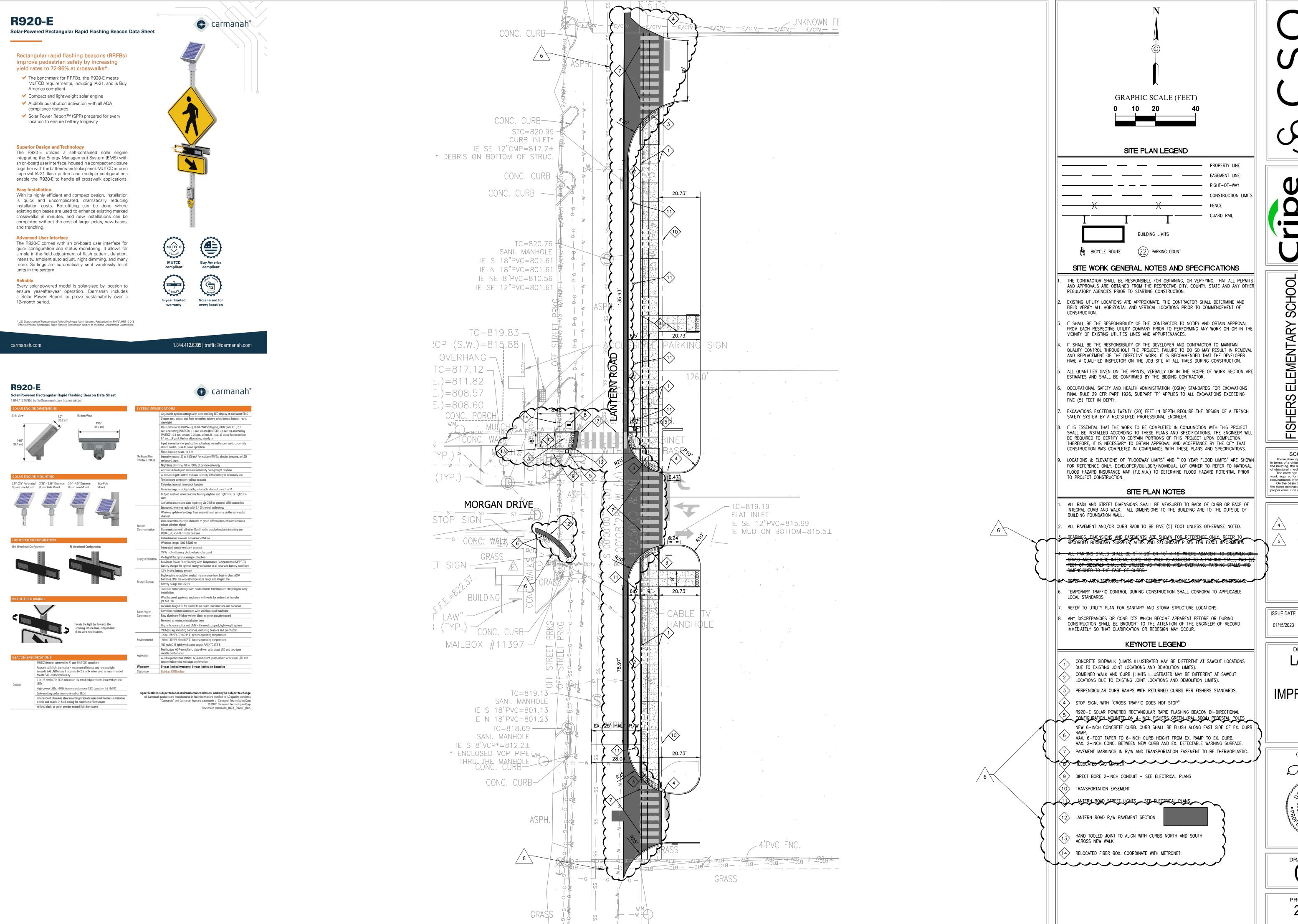
01/15/2023 KDK JAI

DEMOLITION
PLAN

CERTIFIED BY:



C102



SCOPE DRAWINGS: These drawings indicate the general scope of the project terms of architectural design concept, the dimensions of the building, the major architectural elements and the type fortructural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all controls and feet the controls of the control of the controls of the control of work required for full performance and completion of the On the basis of the general scope indicated or describ proper execution and completion of the work

REVISIONS:

02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY

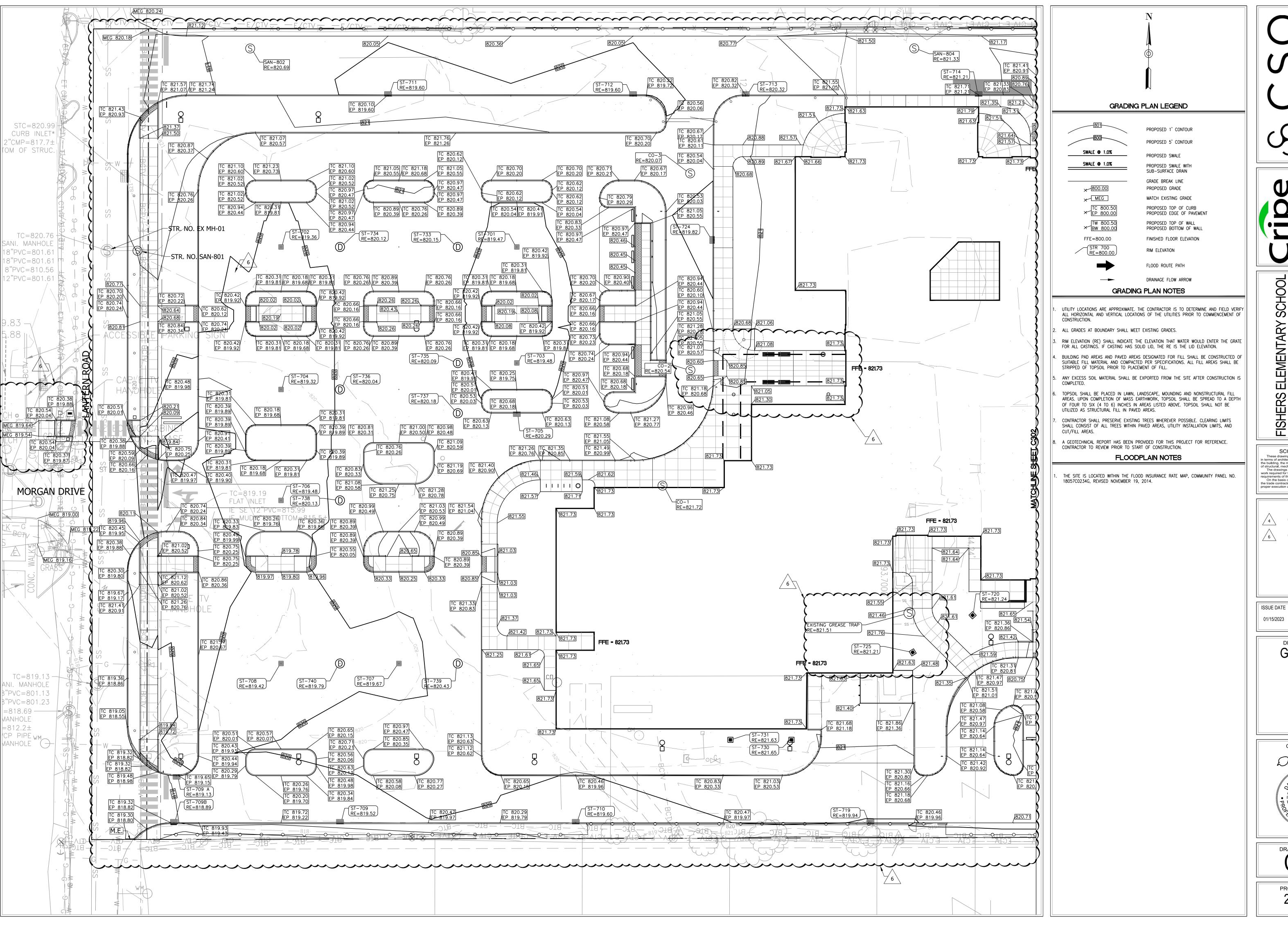
KDK DRAWING TITLE:

LANTERN ROAD **IMPROVEMENT** PLAN

CERTIFIED BY:



DRAWING NUMBER C201



SCOPE DRAWINGS: ese drawings indicate the general scope of the proje s of architectural design concept, the dimensions of building, the major architectural elements and the type structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the On the basis of the general scope indicated or descr

REVISIONS:

02/12/24 ADDENDUM #4

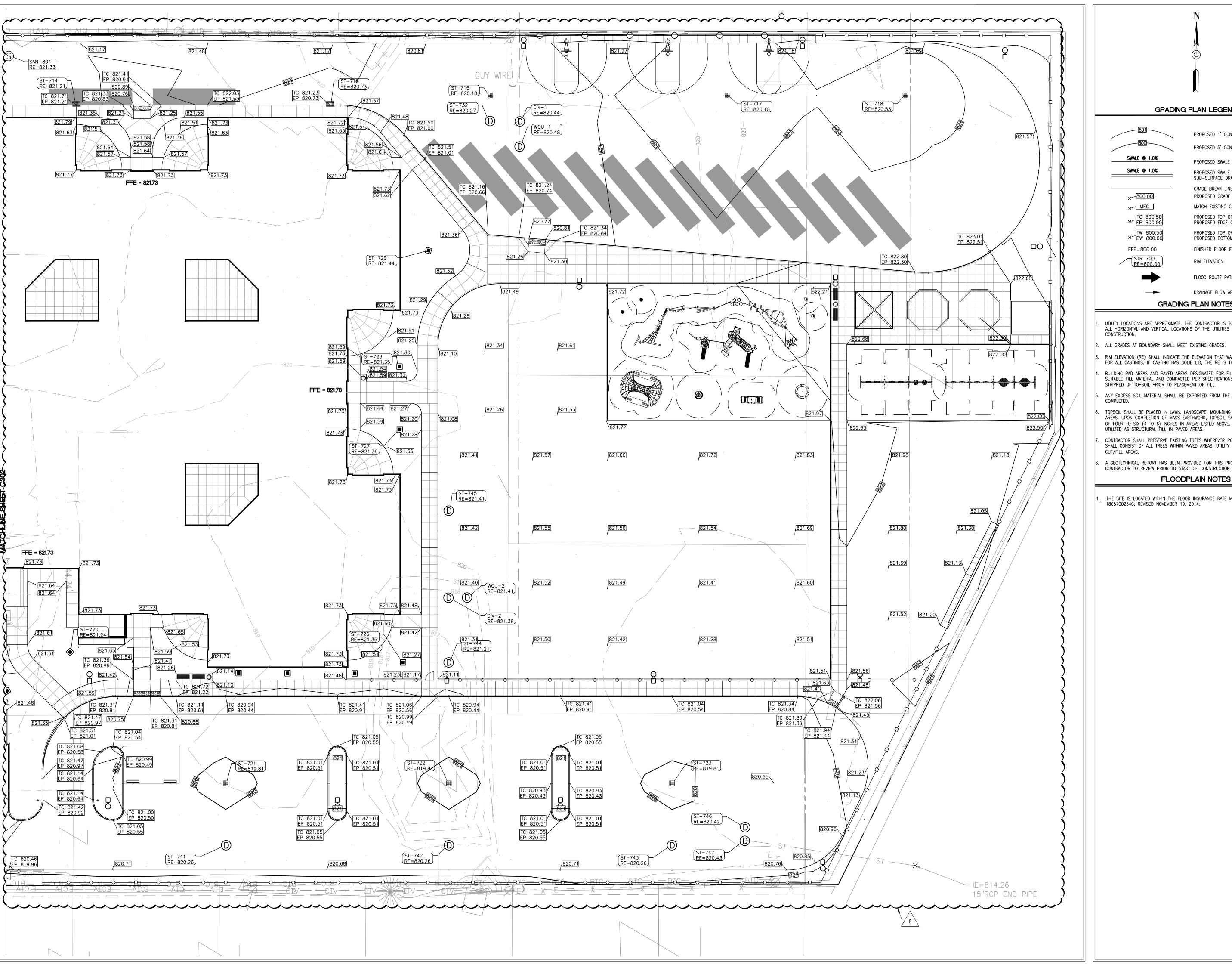
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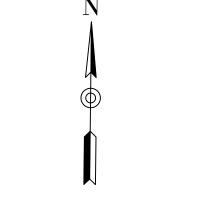
ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE: **GRADING** PLAN

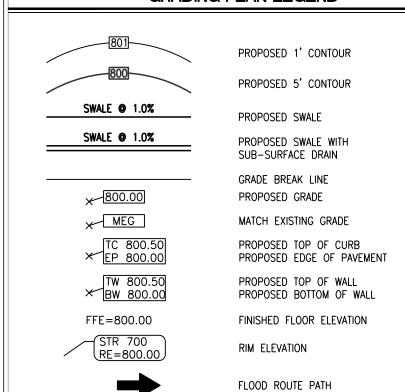
CERTIFIED BY: David a Land

DRAWING NUMBER C301





GRADING PLAN LEGEND



GRADING PLAN NOTES

UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES PRIOR TO COMMENCEMENT OF

DRAINAGE FLOW ARROW

- . ALL GRADES AT BOUNDARY SHALL MEET EXISTING GRADES.
- RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE
- FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION. BUILDING PAD AREAS AND PAVED AREAS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS SHALL BE
- STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL. ANY EXCESS SOIL MATERIAL SHALL BE EXPORTED FROM THE SITE AFTER CONSTRUCTION IS
- TOPSOIL SHALL BE PLACED IN LAWN, LANDSCAPE, MOUNDING AND NONSTRUCTURAL FILL AREAS. UPON COMPLETION OF MASS EARTHWORK, TOPSOIL SHALL BE SPREAD TO A DEPTH OF FOUR TO SIX (4 TO 6) INCHES IN AREAS LISTED ABOVE. TOPSOIL SHALL NOT BE
- CONTRACTOR SHALL PRESERVE EXISTING TREES WHEREVER POSSIBLE. CLEARING LIMITS SHALL CONSIST OF ALL TREES WITHIN PAVED AREAS, UTILITY INSTALLATION LIMITS, AND
- A GEOTECHNICAL REPORT HAS BEEN PROVIDED FOR THIS PROJECT FOR REFERENCE.

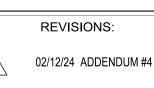
FLOODPLAIN NOTES

THE SITE IS LOCATED WITHIN THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 18057C0234G, REVISED NOVEMBER 19, 2014.

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

SCOPE DRAWINGS: These drawings indicate the general scope of the projectors of architectural design concept, the dimensions of building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the On the basis of the general scope indicated or descri



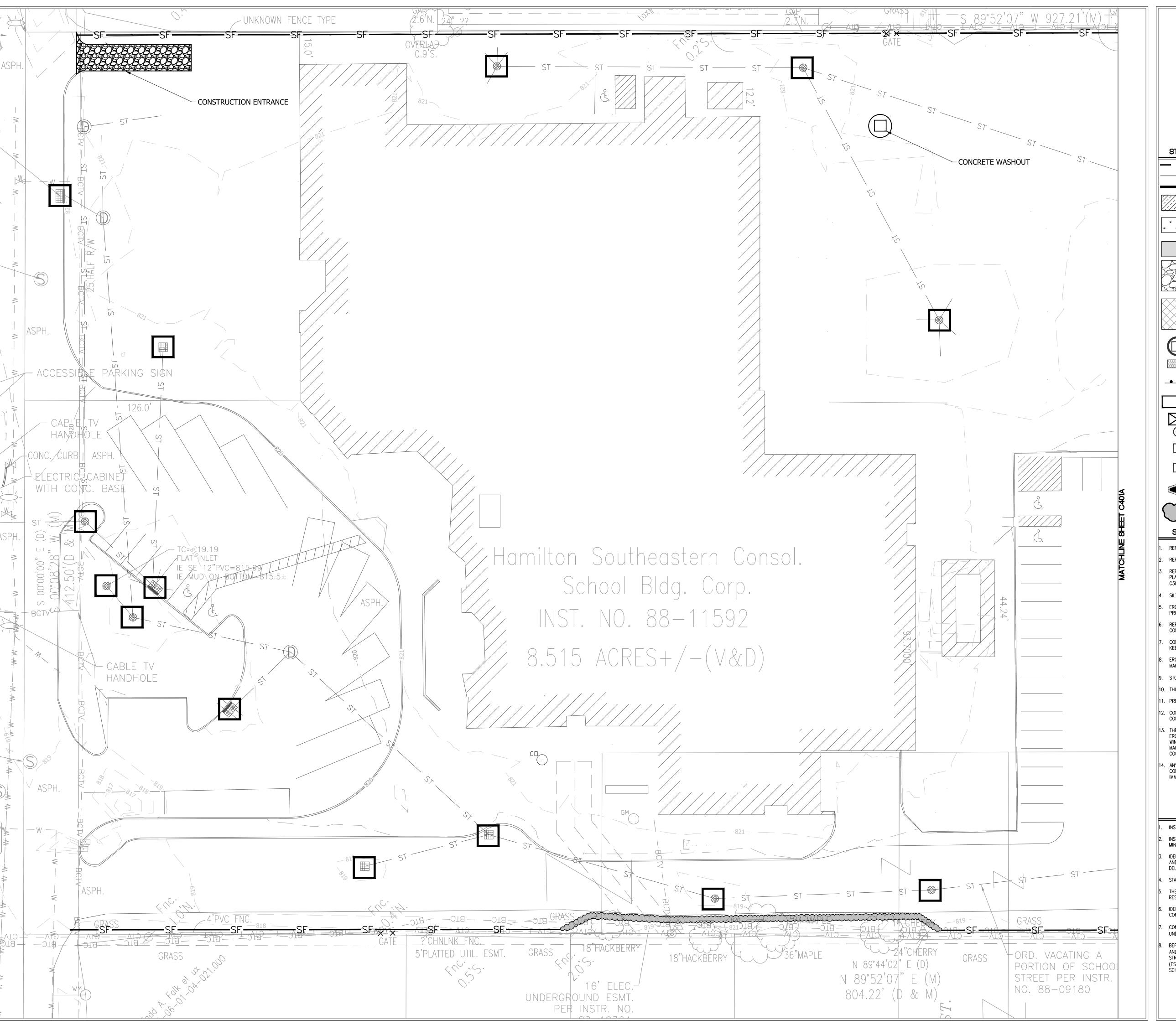
03/01/24 ADDENDUM #6

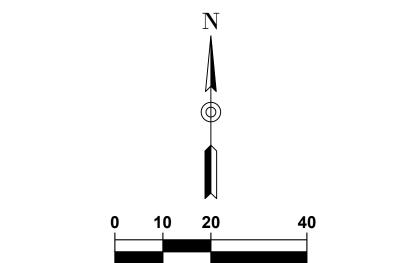
ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023

> DRAWING TITLE: GRADING PLAN

CERTIFIED BY: Dail a Land

DRAWING NUMBER





CONSTRUCTION LIMITS

TP TREE PRESERVATION FENCING

SF SILT FENCE BARRIER INSTALLATION

PERMANENT SEEDING WITH

EROSION CONTROL BLANKET

(NAG SC150 OR EQUAL)

PERMANENT SEEDING

TEMPORARY SEEDING

TEMPORARY CONSTRUCTION DRIVE. UTILIZE

CONTRACTOR STAGING AREA SHALL UTILIZE
THE EXISTING ASPHALT AREA. CONTRACTOR
SHALL REPAIR ALL DAMAGED ASPHALT

CONCRETE WASHOUT

EXISTING PAVED DRIVE AS CONSTRUCTION

SHALL REPAIR ALL DAMAGED ASPHALT
WITHIN THE AREA UPON COMPLETION OF
THE PROJECT AND SHALL MEET THE
STANDARDS AS DICTATED ON DETAILS.

ROCK CHECK DAM

CONSTRUCTION TRAILER

NPDES PUBLIC POSTING SIGN

CONSTRUCTION DUMPSTER

GEOTEXTILE FABRIC YARD
DROP INLET PROTECTION

INSERT (BAG) INLET PROTECTION

INSERT (BAG) CURB INLET
PROTECTION WITH CURB FILTER

CONCRETE END SECTION RIPRAP
(UPPER AND LOWER INV)

STORMWATER POLLUTION PREVENTION PLAN NOTES

REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

2. REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS.

3. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS, ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE PRANTING PATTERN NOTED IN THE GRAPHIC PLANT

PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES C300'S.

SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS.

REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.

CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.

EROSION CONTROL MAINTENANCE – SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.

9. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.

10. THIS SITE IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN.

11. PRESENCE OF HYDRIC SOILS: NONE.

12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.

13. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.

14. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

PRE-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

INSTALL CONSTRUCTION FENCING AND GATES IF REQUIRED.

2. INSTALL SILT FENCING, COIR LOGS, & INLET PROTECTION. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING WATER OR OTHER APPROVED METHODS.

IDENTIFY CONSTRUCTION STAGING AREA, CONCRETE WASHOUT AREAS, MATERIAL STORAGE AND TOPSOIL STOCKPILE AREAS. EACH AREA SHALL BE PROPERLY PROTECTED AND DELINEATED PRIOR TO CONSTRUCTION.

STAGING AREA LOCATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE IDEM NOI, IF REQUIRED, AND CONTACT INFORMATION FOR THE PERSON WITH ONSITE RESPONSIBILITIES MUST BE POSTED ONSITE.

IDEM AND THE LOCAL CITY AGENCY MUST BE NOTIFIED WITHIN 48 HOURS OF COMMENCING CONSTRUCTION.

CONSTRUCTION.

CONTACT INDIANA UNDERGROUND PLANNED PROTECTION SYSTEMS, INC. ("INDIANA 811") FOR UNDERGROUND UTILITY LOCATIONS. (1–800–382–5544).

BEFORE OPENING UP THE SITE, FIRST EVALUATE, MARK AND PROTECT IMPORTANT TREES AND ASSOCIATED ROOT ZONES, UNIQUE AREAS TO BE PRESERVED (I.E. WETLANDS), STREAMS, LAKES OR EXISTING VEGETATION SUITABLE FOR USE AS FILTER STRIPS (ESPECIALLY IN PERIMETER AREAS). SEE LANDSCAPE PLANS FOR PROPOSED PLANTING SCHEDULE

SSS

utions by Design Since 1937

Line by Design Since 1937

Line by Design Since 1937

Line by Day Sulf 100 Archeolese New Stranger - 50 Lose scanner of 1017 844-6777

Line by Sulf 100 Super - 50 Lose scanner of 1017 844-6777

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FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

SCOPE DRAWINGS:

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

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

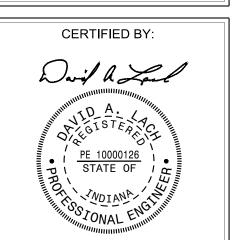
On the basis of the general scope indicated or described the trade contractors shall furnish all items required for the proper secution and completion of the work.

REVISIONS:
02/12/24 ADDENDUM#4

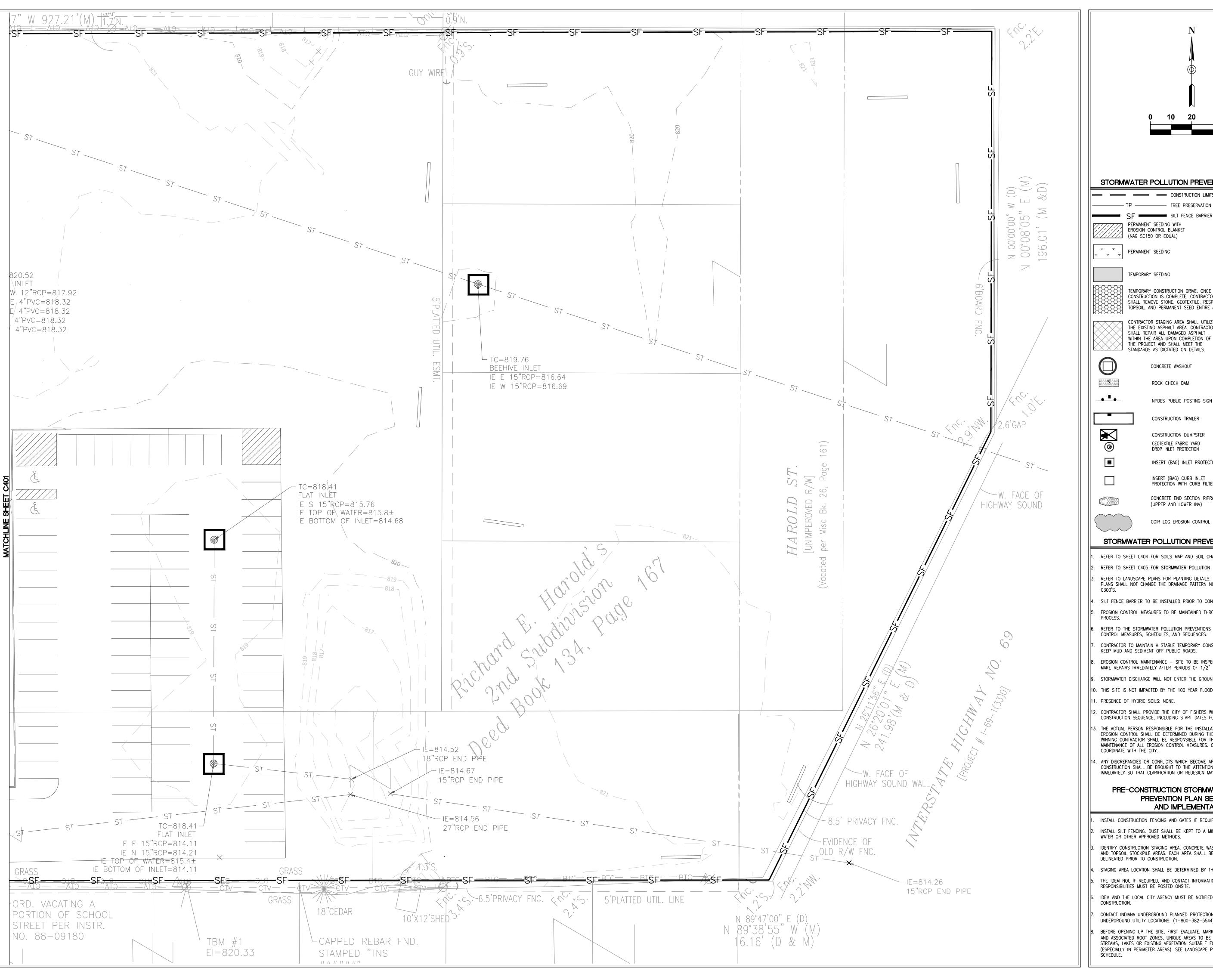
03/01/24 ADDENDUM #6

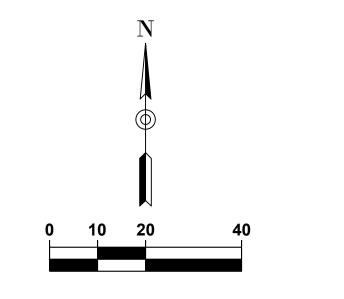
ISSUE DATE DRAWN BY CHECKED BY 01/15/2023 KDK JAD

PRECONSTRUCTION
EROSION
CONTROL
PLAN



C401





— CONSTRUCTION LIMITS PERMANENT SEEDING WITH EROSION CONTROL BLANKET (NAG SC150 OR EQUAL)

PERMANENT SEEDING

CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE STONE, GEOTEXTILE, RESPREAD TOPSOIL, AND PERMANENT SEED ENTIRE AREA.

CONTRACTOR STAGING AREA SHALL UTILIZE THE EXISTING ASPHALT AREA. CONTRACTOR SHALL REPAIR ALL DAMAGED ASPHALT WITHIN THE AREA UPON COMPLETION OF THE PROJECT AND SHALL MEET THE STANDARDS AS DICTATED ON DETAILS.

> CONCRETE WASHOUT ROCK CHECK DAM

NPDES PUBLIC POSTING SIGN

CONSTRUCTION TRAILER CONSTRUCTION DUMPSTER GEOTEXTILE FABRIC YARD DROP INLET PROTECTION

> INSERT (BAG) INLET PROTECTION INSERT (BAG) CURB INLET

PROTECTION WITH CURB FILTER CONCRETE END SECTION RIPRAP (UPPER AND LOWER INV)

COIR LOG EROSION CONTROL

STORMWATER POLLUTION PREVENTION PLAN NOTES

REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

. REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS.

REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES C300'S.

4. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.

. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION

6. REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.

CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.

. EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.

9. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.

10. THIS SITE IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN.

11. PRESENCE OF HYDRIC SOILS: NONE.

12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.

13. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.

14. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

PRE-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

INSTALL CONSTRUCTION FENCING AND GATES IF REQUIRED.

INSTALL SILT FENCING. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING WATER OR OTHER APPROVED METHODS.

IDENTIFY CONSTRUCTION STAGING AREA, CONCRETE WASHOUT AREAS, MATERIAL STORAGE AND TOPSOIL STOCKPILE AREAS. EACH AREA SHALL BE PROPERLY PROTECTED AND DELINEATED PRIOR TO CONSTRUCTION.

STAGING AREA LOCATION SHALL BE DETERMINED BY THE CONTRACTOR.

THE IDEM NOI, IF REQUIRED, AND CONTACT INFORMATION FOR THE PERSON WITH ONSITE

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

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03/01/24 ADDENDUM #6

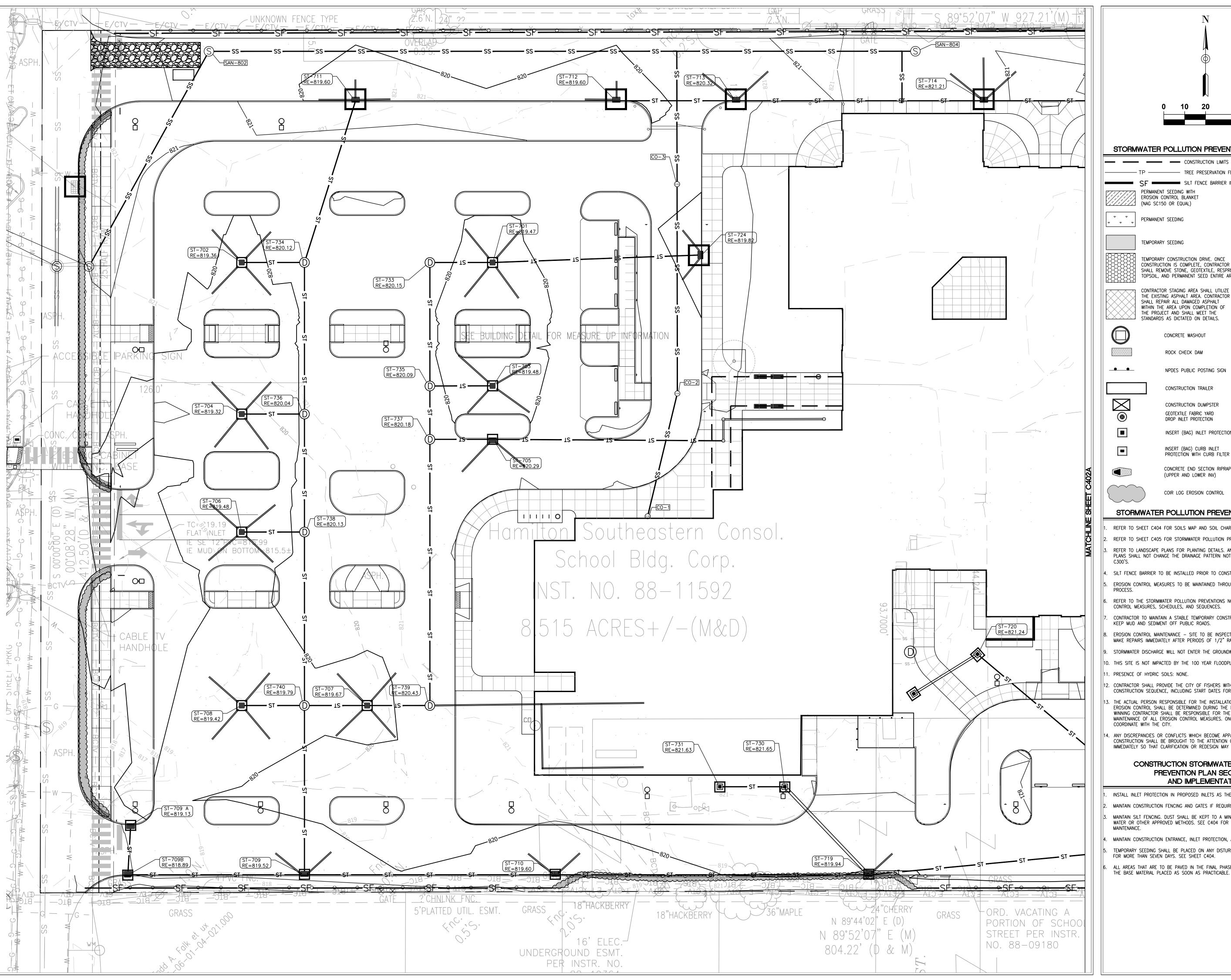
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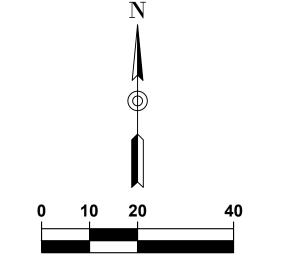
DRAWING TITLE: PRE-CONSTRUCTION **EROSION** CONTROL PLAN

CERTIFIED BY:



DRAWING NUMBER





— CONSTRUCTION LIMITS TP TREE PRESERVATION FENCING SF SILT FENCE BARRIER INSTALLATION PERMANENT SEEDING WITH

EROSION CONTROL BLANKET (NAG SC150 OR EQUAL)

PERMANENT SEEDING

TEMPORARY CONSTRUCTION DRIVE. ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE STONE, GEOTEXTILE, RESPREAD TOPSOIL, AND PERMANENT SEED ENTIRE AREA.

THE EXISTING ASPHALT AREA. CONTRACTOR SHALL REPAIR ALL DAMAGED ASPHALT WITHIN THE AREA UPON COMPLETION OF THE PROJECT AND SHALL MEET THE STANDARDS AS DICTATED ON DETAILS.

CONCRETE WASHOUT

ROCK CHECK DAM NPDES PUBLIC POSTING SIGN

CONSTRUCTION TRAILER

CONSTRUCTION DUMPSTER GEOTEXTILE FABRIC YARD

DROP INLET PROTECTION INSERT (BAG) INLET PROTECTION

INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER CONCRETE END SECTION RIPRAP

COIR LOG EROSION CONTROL

(UPPER AND LOWER INV)

STORMWATER POLLUTION PREVENTION PLAN NOTES

REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES

4. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.

EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION

REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.

CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.

EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.

STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.

10. THIS SITE IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN.

11. PRESENCE OF HYDRIC SOILS: NONE.

12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.

THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL

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CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

INSTALL INLET PROTECTION IN PROPOSED INLETS AS THEY ARE INSTALLED. MAINTAIN CONSTRUCTION FENCING AND GATES IF REQUIRED.

MAINTAIN SILT FENCING. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING WATER OR OTHER APPROVED METHODS. SEE C404 FOR GUIDANCE ON SILT FENCE

MAINTAIN CONSTRUCTION ENTRANCE, INLET PROTECTION, AND CONCRETE WASHOUT. TEMPORARY SEEDING SHALL BE PLACED ON ANY DISTURBED AREA THAT WILL REMAIN OPEN

FOR MORE THAN SEVEN DAYS. SEE SHEET C404. ALL AREAS THAT ARE TO BE PAVED IN THE FINAL PHASE OF CONSTRUCTION SHALL HAVE

PROJECT NUMBER

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
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RD, FISHERS, IN
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REVISIONS:

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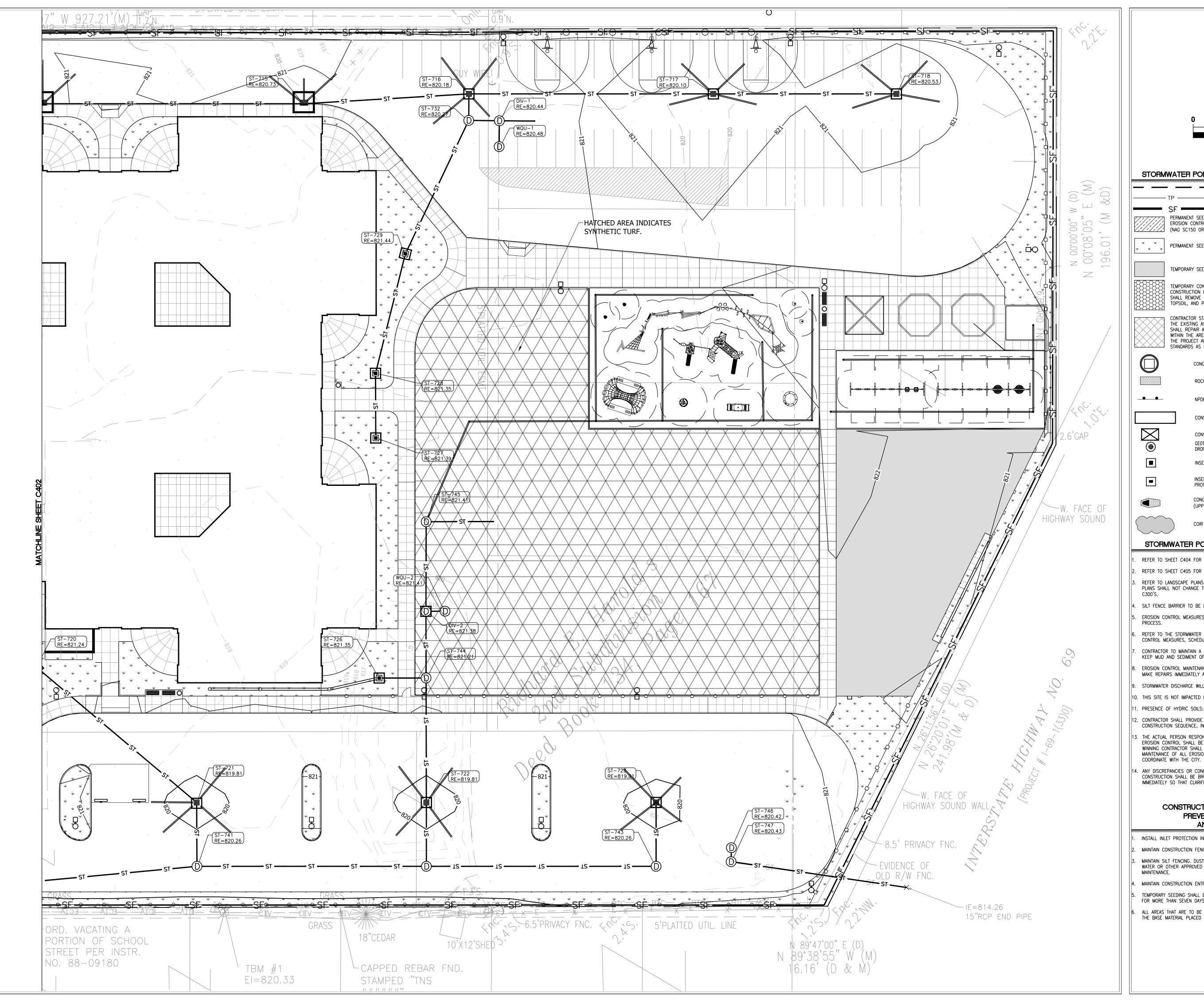
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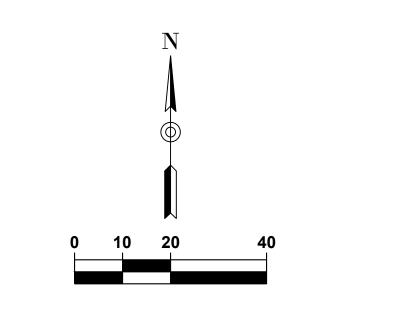
DRAWING TITLE: CONSTRUCTION **EROSION CONTROL** PLAN

> **CERTIFIED BY:** Dail a Land

DRAWING NUMBER C402

2021119





— — CONSTRUCTION LIMITS TP TREE PRESERVATION FENCING SILT FENCE BARRIER INSTALLATION

> PERMANENT SEEDING WITH EROSION CONTROL BLANKET (NAG SC150 OR EQUAL)

PERMANENT SEEDING

TEMPORARY CONSTRUCTION DRIVE. ONCE CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE STONE, GEOTEXTILE, RESPREAD TOPSOIL, AND PERMANENT SEED ENTIRE AREA.

TEMPORARY SEEDING

CONTRACTOR STAGING AREA SHALL UTILIZE THE EXISTING ASPHALT AREA. CONTRACTOR SHALL REPAIR ALL DAMAGED ASPHALT WITHIN THE AREA UPON COMPLETION OF THE PROJECT AND SHALL MEET THE STANDARDS AS DICTATED ON DETAILS.

CONCRETE WASHOUT

ROCK CHECK DAM NPDES PUBLIC POSTING SIGN

> CONSTRUCTION TRAILER CONSTRUCTION DUMPSTER

> > GEOTEXTILE FABRIC YARD

DROP INLET PROTECTION INSERT (BAG) INLET PROTECTION

INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER

CONCRETE END SECTION RIPRAP (UPPER AND LOWER INV)

STORMWATER POLLUTION PREVENTION PLAN NOTES

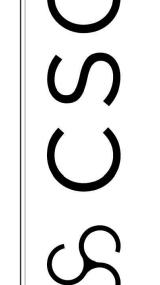
REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

COIR LOG EROSION CONTROL

- . REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES
- 4. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.
- EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION
- REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.
- CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO
- KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.
- . EROSION CONTROL MAINTENANCE SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.
- 9. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT. 10. THIS SITE IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN.
- 11. PRESENCE OF HYDRIC SOILS: NONE.
- 12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.
- 13. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL
- 14. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

- INSTALL INLET PROTECTION IN PROPOSED INLETS AS THEY ARE INSTALLED.
- MAINTAIN CONSTRUCTION FENCING AND GATES IF REQUIRED.
- MAINTAIN SILT FENCING. DUST SHALL BE KEPT TO A MINIMUM BY UTILIZING SPRINKLING WATER OR OTHER APPROVED METHODS. SEE C404 FOR GUIDANCE ON SILT FENCE
- MAINTAIN CONSTRUCTION ENTRANCE, INLET PROTECTION, AND CONCRETE WASHOUT.
- TEMPORARY SEEDING SHALL BE PLACED ON ANY DISTURBED AREA THAT WILL REMAIN OPEN FOR MORE THAN SEVEN DAYS. SEE SHEET C404.
- ALL AREAS THAT ARE TO BE PAVED IN THE FINAL PHASE OF CONSTRUCTION SHALL HAVE THE BASE MATERIAL PLACED AS SOON AS PRACTICABLE.





FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

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

The drawings do not necessarily indicate or describe all work required for full performance and completion of the On the basis of the general scope indicated or descri

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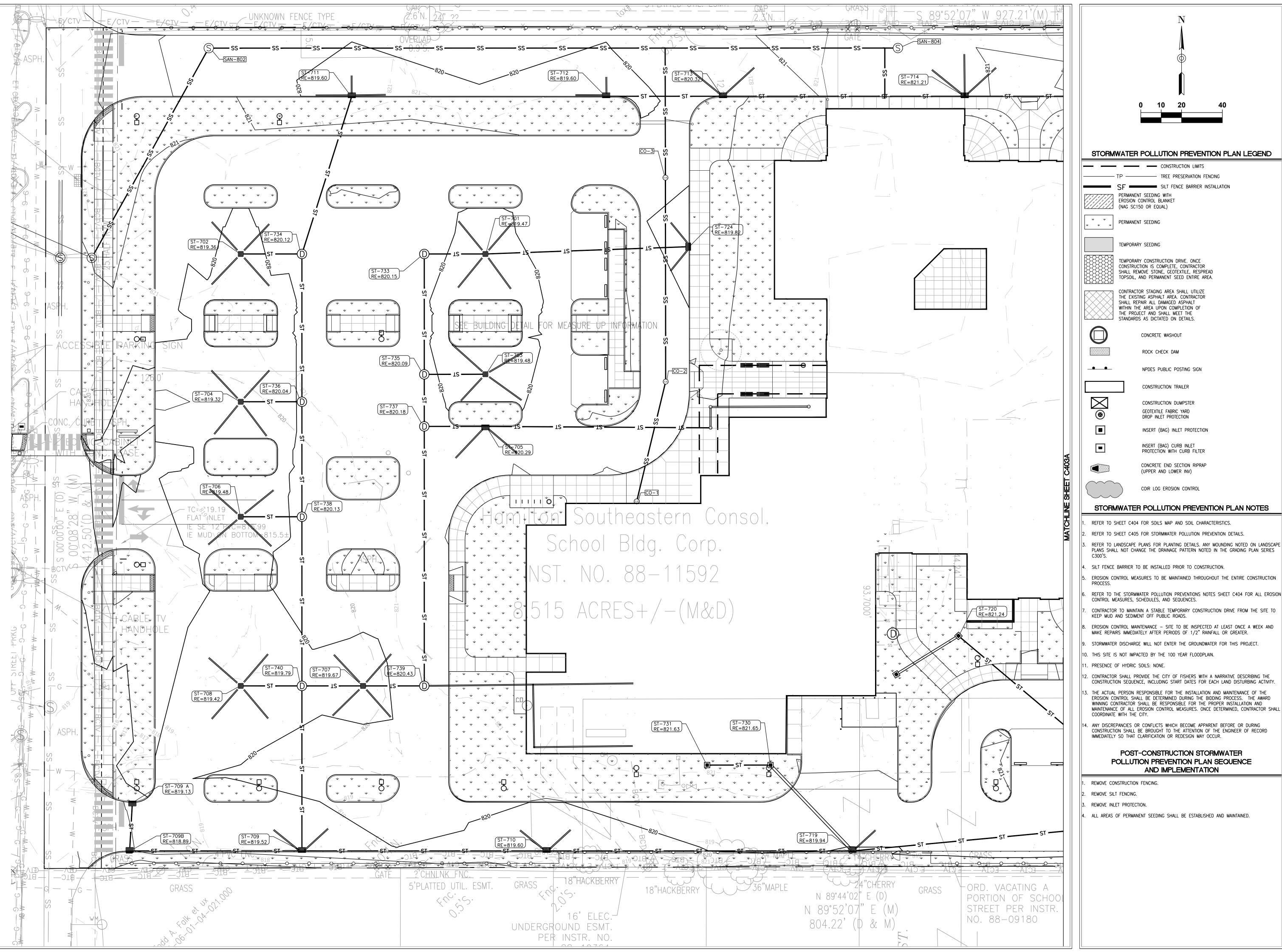
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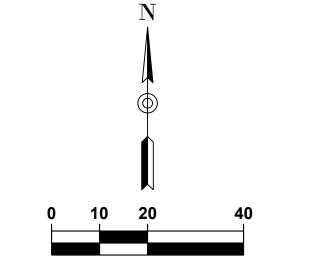
DRAWING TITLE: CONSTRUCTION **EROSION** CONTROL PLAN

CERTIFIED BY:



DRAWING NUMBER





TP TREE PRESERVATION FENCING SF SILT FENCE BARRIER INSTALLATION PERMANENT SEEDING WITH EROSION CONTROL BLANKET (NAG SC150 OR EQUAL) PERMANENT SEEDING

TEMPORARY SEEDING

CONTRACTOR STAGING AREA SHALL UTILIZE THE EXISTING ASPHALT AREA. CONTRACTOR SHALL REPAIR ALL DAMAGED ASPHALT WITHIN THE AREA UPON COMPLETION OF THE PROJECT AND SHALL MEET THE

> CONCRETE WASHOUT ROCK CHECK DAM

NPDES PUBLIC POSTING SIGN

CONSTRUCTION TRAILER CONSTRUCTION DUMPSTER GEOTEXTILE FABRIC YARD

DROP INLET PROTECTION INSERT (BAG) INLET PROTECTION

> INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER CONCRETE END SECTION RIPRAP

(UPPER AND LOWER INV) COIR LOG EROSION CONTROL

REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS.

. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION

REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES.

CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO KEEP MUD AND SEDIMENT OFF PUBLIC ROADS.

EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND

MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER.

9. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.

1. PRESENCE OF HYDRIC SOILS: NONE.

12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE

CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL

ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

- REMOVE SILT FENCING.
- REMOVE INLET PROTECTION.
- ALL AREAS OF PERMANENT SEEDING SHALL BE ESTABLISHED AND MAINTAINED.



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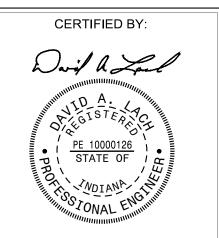
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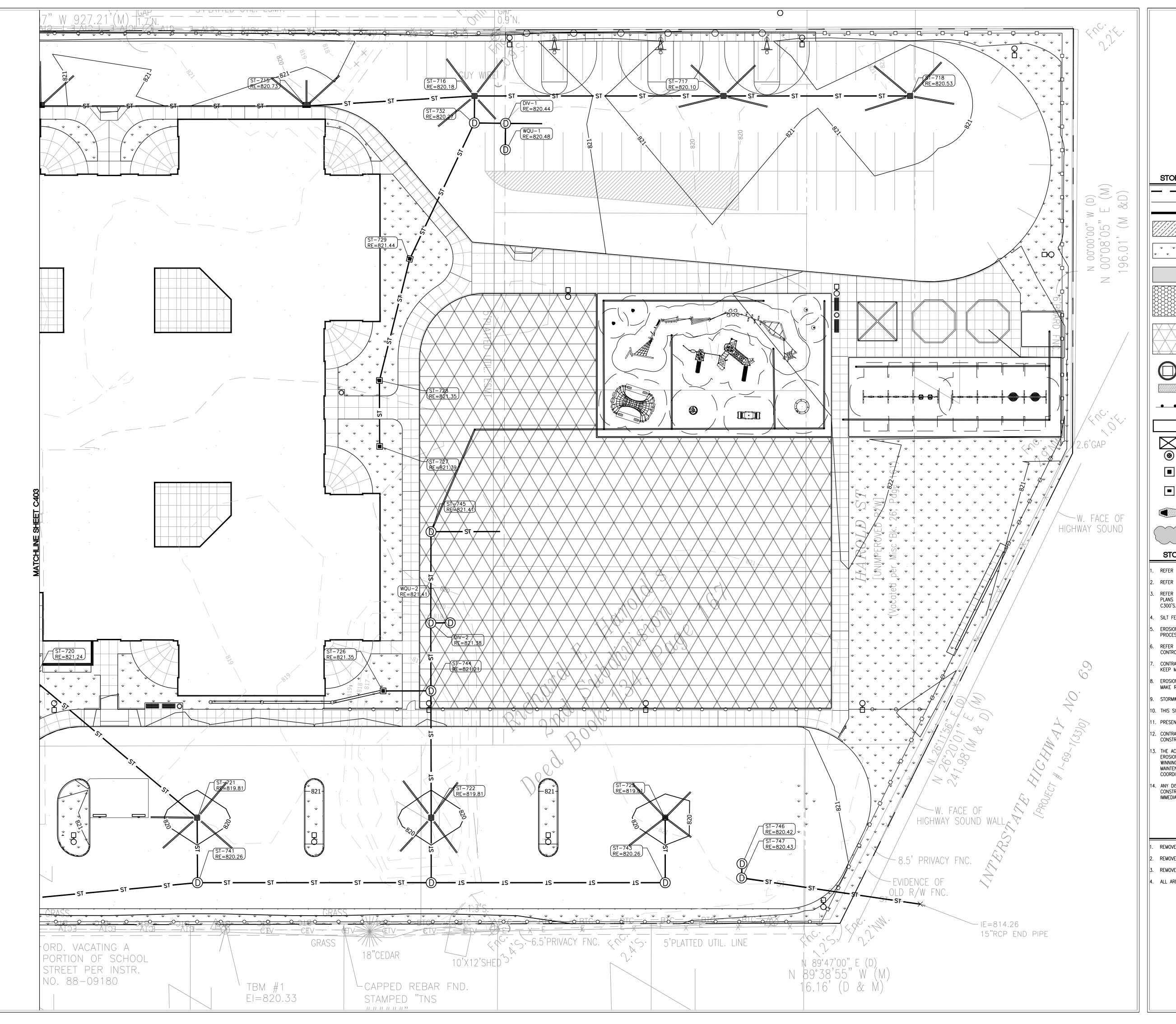
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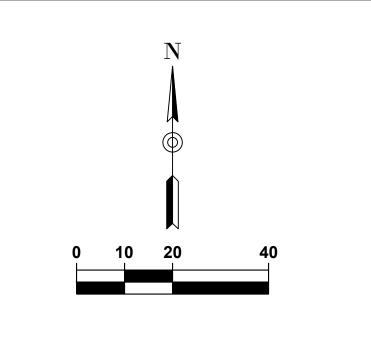
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DRAWING TITLE: POST CONSTRUCTION **EROSION CONTROL** PLAN



DRAWING NUMBER C403





— — CONSTRUCTION LIMITS TREE PRESERVATION FENCING SILT FENCE BARRIER INSTALLATION PERMANENT SEEDING WITH EROSION CONTROL BLANKET (NAG SC150 OR EQUAL) PERMANENT SEEDING TEMPORARY SEEDING TEMPORARY CONSTRUCTION DRIVE. ONCE

CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL REMOVE STONE, GEOTEXTILE, RESPREAD

TOPSOIL, AND PERMANENT SEED ENTIRE AREA.

SYNTHETIC TURF

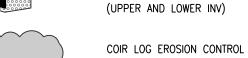
CONCRETE WASHOUT

ROCK CHECK DAM NPDES PUBLIC POSTING SIGN

CONSTRUCTION TRAILER CONSTRUCTION DUMPSTER

GEOTEXTILE FABRIC YARD DROP INLET PROTECTION INSERT (BAG) INLET PROTECTION

> INSERT (BAG) CURB INLET PROTECTION WITH CURB FILTER CONCRETE END SECTION RIPRAP



STORMWATER POLLUTION PREVENTION PLAN NOTES

REFER TO SHEET C404 FOR SOILS MAP AND SOIL CHARACTERISTICS.

. REFER TO SHEET C405 FOR STORMWATER POLLUTION PREVENTION DETAILS. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS. ANY MOUNDING NOTED ON LANDSCAPE PLANS SHALL NOT CHANGE THE DRAINAGE PATTERN NOTED IN THE GRADING PLAN SERIES

4. SILT FENCE BARRIER TO BE INSTALLED PRIOR TO CONSTRUCTION.

. EROSION CONTROL MEASURES TO BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION

REFER TO THE STORMWATER POLLUTION PREVENTIONS NOTES SHEET C404 FOR ALL EROSION CONTROL MEASURES, SCHEDULES, AND SEQUENCES. CONTRACTOR TO MAINTAIN A STABLE TEMPORARY CONSTRUCTION DRIVE FROM THE SITE TO

KEEP MUD AND SEDIMENT OFF PUBLIC ROADS. . EROSION CONTROL MAINTENANCE - SITE TO BE INSPECTED AT LEAST ONCE A WEEK AND

MAKE REPAIRS IMMEDIATELY AFTER PERIODS OF 1/2" RAINFALL OR GREATER. 9. STORMWATER DISCHARGE WILL NOT ENTER THE GROUNDWATER FOR THIS PROJECT.

10. THIS SITE IS NOT IMPACTED BY THE 100 YEAR FLOODPLAIN.

11. PRESENCE OF HYDRIC SOILS: NONE.

12. CONTRACTOR SHALL PROVIDE THE CITY OF FISHERS WITH A NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCE, INCLUDING START DATES FOR EACH LAND DISTURBING ACTIVITY.

13. THE ACTUAL PERSON RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE EROSION CONTROL SHALL BE DETERMINED DURING THE BIDDING PROCESS. THE AWARD WINNING CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. ONCE DETERMINED, CONTRACTOR SHALL COORDINATE WITH THE CITY.

14. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

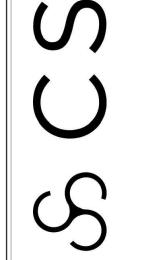
POST-CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN SEQUENCE AND IMPLEMENTATION

REMOVE CONSTRUCTION FENCING.

REMOVE SILT FENCING.

REMOVE INLET PROTECTION.

4. ALL AREAS OF PERMANENT SEEDING SHALL BE ESTABLISHED AND MAINTAINED.



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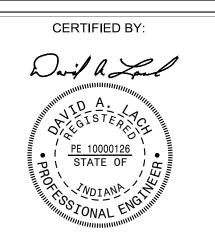
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DRAWING TITLE: POST CONSTRUCTION **EROSION** CONTROL PLAN



DRAWING NUMBER

EROSION AND SEDIMENT CONTROL SEQUENCE AND IMPLEMENTATION

- Post the NOI and contact information for the person with onsite responsibilities. Existing drive entrance off Lantern Road shall be used as construction entrance. See sheets C401-C403.
- Install silt fencing along property lines and along construction limits as shown on sheets C401 (See detail on sheet C403). Dust shall be kept to a minimum by utilizing sprinkling, calcium chloride, vegetative cover, spray on adhesive or other approved methods.Identify construction staging, concrete washout areas, material storage and areas. Each area shall be properly protected and delineated prior to construction.
- IDEM and the City of Fishers must be notified within 48 hours of commencing construction.

Maintain all erosion and sediment control practices until all disturbed areas are permanently stabilized.

- Contact Indiana Underground Planned Protection Systems, Inc. for underground Utility locations. (1-800-382-5544). Before opening up the site, first evaluate, mark and protect important trees and associated root zones, unique areas to be preserved (i.e. wetlands), or existing vegetation
- suitable for use as filter strips (especially in perimeter areas). Begin mass earthwork for preliminary grading. See "General Seeding and Surface Stabilization Procedures" for temporary seeding guidelines on this sheet.
- Repair any silt fencing if damaged. If silt fence is 1/3 height of fabric, remove silt and replace to original condition. See detail on Sheet C403. Immediately after grading, apply surface stabilization practices on all graded areas, using permanent measures in accordance with the erosion control plan. However, if weather
- delays permanent stabilization, temporary seeding and/or mulching may be necessary as a provisional measure. Also stabilize (using temporary seeding/mulching or other suitable means) any disturbed area where active construction will not take place for 15 working days. 10. Install Post Construction BMP measures. Includes final grading and stabilization. If any of these areas were used as temporary sediment control devices during construction,
- remove and restabilize for post construction use. After construction and final grading, landscape and permanently stabilize all disturbed areas, including borrow and disposal areas. Also remove temporary runoff control

SECTION A CONT'D.

See sheets C200 and C501

Potential Non-Stormwater Discharges:

discharge of pollutants

structures and any unstable sediment around them, and stabilize those areas with permanent seeding and erosion control blanket if necessary.

CONSTRUCTION/STORMWATER POLLUTION PREVENTION PLAN

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

A1 Plan Index Showing Locations Of Required Items:

See Cover Sheet C001

A2 A Vicinity Map Depicting Project Site Location in Relationship to Roads and Local Landmarks

A3 Narrative of the Project Nature And Purpose:

The proposed project consists of elementary school building addition, pay parking lots, connecting sidewalks, greenspace, and associated utilities. Stormwater quantity and quality will be achieved through storm sewer network, and an underground detention chambers.

A4 latitude and Longitude to the Neareast Fifteen (15) Seconds: LATITUDF: 39° 95' 23" N LONGITUDE: 86° 01' 11" W

A5 Legal Description of the Project Site: See legal description on Cover Sheet C00

A6 Location Of All Lots and Proposed Site Improvements: All Proposed drives, parking lots walks, buildings and walls are shown on plan Sheet C200

A7 100-Year Floodplain, Floodway Fringes, and Floodways: See Sheet C203 FOR FLOOD ZONE AE AT THE SOUTHWEST CORNER OF THE

A8 Land Use of all Adjacent Properties:

NORTH - VARIETY OF USES - ZONED MIXED-USE SOUTH - VARIETY OF USES - ZONED MIXED-USE FAST - INDOT INTERSTATE 69 R/W WEST - VARIETY OF USES - ZONED MIXED-USE

A9 Identification of U.S. EPA Approved of Estblished TMDL:

he stormwater runoff is captured and conveyed to water quality BMPs and an underground detention basin which discharges to the existing Indiana on the east side of the site. See sheet C503, STR 700 for location and connection information.

The project is within IDEM Fall Creek TMDL Study of 2003 which identified E. Coli as the primary pollutant of concern wherein CSO discharges are the greatest contributor.

A10 Name or Receiving Water: he closest water course to the site is Geist Reservoir.

A11 Identification of Discharges to Water on Current 303(d) List:

Stormwater does not discharge to a 303(d) impaired water.

A12 Soils Map of the Predominate Soil Types: Soils map provided on this sheet. The predominant soils present within t construction limits are YcIA—Crosby silt loam, UbaA—Urban Brookston complex, and UcfA—Unbran Crosby silt loam complex.

A13 Wetlands, Lakes, and Water Courses on or Adjacent: he closest waterway to the site is Geist Reservoir. There are no wetlands, lakes, or water courses adjacent to the project site.

A14 State OR Federal Water Quality Permits:

A15 Identification and Delineation of Existing Cover and Natural Buffers: See Sheets C100 & C101. This site is an elementary school that will be partially demolished.

A17 Location(s) Where Run-off Enters the Project Site: Run-off enters site primarily in the South West corner.

Disturbance Activities:

Existing Stormwater run-off sheet drains into a storm sewer system and outlets into a pipe in the East side of the site.

A19 Location of all Existing Structures on the Project Site:

A20 Existing Permanent Retention or Detention Facilities, Manmade Wetlands for Stormwater Purposes:

There are no existing detention facilities present at this site. The post-developed site will have an undearound detention system with water quality structures (hydrodynamic BMPs) that capture and treat runoff prior to discharge into the existing storm sewer system. See sheets C501 and

Stormwater may be Directly Discharged intoGround Water

A23 Total Land Disturbance in Acres:

A24 Proposed Final Topography: See sheets C301 and C302. The site is fairly flat with topography sloping towards drainage structures.

A25 Locations and Boundaries of all Disturbed Areas: See sheets C101 and C30

A26 Location, Size, and Dimensions of all Stormwater Drainage system such as Culverts, Stormwater sewer, and Conveyance Channels:

A27 Specific Points where Storm and Non-storm Water Discharges Leave

Contractor shall contact a waste recovery agency immediately for removal of contaminates See sheets C701-C702, C301-C304, & C405-C408. Stormwater sheet and coordination of monitoring the site during cleanup until all of the hazardous material has flows into a storm system through a underground detention and outlets in been removed. Contractor shall cooperate with IDEM during and after the spill to insure all required cleanup and filing reports are properly submitted.

SECTION B CONT'D. The Developer shall be continually informed of any contamination concerns occurring on the site. The construction manager shall keep on site a list of qualified contractors for spill remediation. All site personnel, including maintenance employees, shall be made aware of proper spill prevention and remediation techniques. All materials used to absorb spills shall be properly disposed of in an approved manor with local and state laws. Do not flush spill materials with water unless directed to do so by a governing agency. It is important that all manufacturer's instructions be followed when using or

B15 Material Handling And Storage Procedures Associated With Construction Activity:

Appropriate measures must be implemented to manage wastes or unused building materials including, but not limited to garbage, debris, cleaning wastes, wastewater, concrete or cementitious washout water, mortar/masonry products. soil stabilizers, lime stabilization materials, and other substances. Wastes and unused building materials must be managed and disposed of in accordance with all applicable statues and regulations. Proper storage and handling of materials, such as fuels or hazardous wastes, and spill prevention and clean-up measures must be implemented to minimize the potential for pollutants to contaminate surface or ground water or degrade soil quality. Concrete or cementitiouus washout areas, where washout is permissible, must be identified for the site and locations clearly posted. Wash water must be directed into leak-proof containers or leak-proof containment areas which are located and designed to divert stormwater run-off away from the measure and sized to prevent discharge and/or overflow of the wash water.

applying all fertilizers, herbicides, and pesticides.

Insure that toxic liquid wastes such as used oils, solvents, paints, chemicals such as acids, pesticides, additives, and curing compounds are not disposed of in dumpsters designated for construction debris, but are rather properly disposed of according to local and state laws.

ASSESSMENT OF STORMWATER POLLUTION PREVENTION POST-CONSTRUCTION COMPONENT (SECTION C)

C1 Description Of Pollutants And Their Sources Associated With The Proposed Land Use: Potential post-construction pollutant sources include assorted fuels, oils and liquids associated with vehicular traffic used in

field maintenance. There are no new downstream water quality effects due to channeling discharges to a single point which can result in bank erosion, down cutting of the channel bottom.

Post construction stormwater quality measures to aid in reducing the amount of pollutants include the construction of a

C2 Description of Proposed Post-Construction Stormwater Measures:

hydrodynamic separator upstream from the dry detention basin. The above BMP will provide 80% TSS removal from the

C3 Plan Details For Each Stormwater Measures:

<u>C4 Sequence Describing Stormwater Measure Implementation:</u> The post-construction stormwater quality measure implementation shall begin after substantial completion of the

construction activities for the proposed project. This is the appropriate time to install the proposed stormwater BMP. Any newly installed or existing BMPs on site shall be clear of any and all debris. The location of the post construction BMP can be found on sheets C401-C403. Details can be found on sheets C707-C711. Following construction, all erosion control measures shall be inspected and maintained until all permanent measures and vegetation has been established and construction is complete. After installation of the post-construction BMP structure is in place, individual erosion control measures may be removed, including following permanent inlet protection seeding and after sufficient vegetation has been established in an area to prevent silt and soil erosion into the storm sewer system. Inspection and maintenance of all BMP ! structures are the responsibility of the owner.

C5 Maintenance Guidelines For Proposed Post Construction Stormwater Quality Measures:

Please refer to The Operation & Maintenance Manual for information regarding the post-construction water quality measures. Grass areas will be maintained on a regular moving cycle. Trash and debris will be removed from seeded and gravel areas. The Hydrodynamic Separator Water Quality BMP structures will be inspected and maintained as follows:

BMP - Stormwater Quality Treatment Units (AQUA-SWIRL, XCELERATOR XC-5 and XC-7) **Basic Operation**

The Stormwater Quality Treatment Units (SQTU) are hydrodynamic separators designed to enhance gravitational separation of floating and settling materials from storm water flows. Storm water flows enter the unit tangentially to the grit chamber, which promotes a gentle swirling motion. As polluted water circles within the grit chamber, pollutants migrate toward the center of the unit where velocities are the lowest. The majority of settleable solids are left behind as storm water exits the arit chamber through two apertures on the perimeter of the chamber. Next, buoyant debris and oil and grease are separated from water flowing under the baffle wall due to their relatively low specific gravity. As storm water exits the System through the flow control wall and ultimately through the outlet pipe, it is relatively free of floating and settling

Over time a conical pile tends to accumulate in the center of the unit containing sediment and associated metals, nutrients, hydrocarbons and other pollutants. Floating debris and oil and grease form a floating layer trapped in front of the baffle wall. Accumulation of these pollutants can easily be assessed through access manholes over each chamber. Maintenance is typically performed through the manhole over the grit chamber. Inspection of SQTU

SQTU should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the System collects pollutants will depend more heavily on site activities than the size of the unit, e.g., unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping will slow accumulation. Inspection is the key to effective maintenance and is easily performed. Quarterly inspections of the accumulated sediment. Pollutant deposition and transport may vary from year to year and quarterly inspections will help insure that Systems are cleaned out at the appropriate time. Inspections should be performed more often in the winter months in climates where sanding operations may lead to rapid accumulations, or in equipment wash down areas. It is very useful to keep a record

The SQTU system should be cleaned when inspection reveals that the sediment depth has accumulated to the determined elevation or depth. This determination can be made by taking 2 measurements with a stadia rod or similar measuring

Cleaning of SQTU Structures Maintaining the SQTU is easiest when there is no flow entering the Systems. For this reason, it is a good idea to schedule the clean out during dry weather. Clean out of the SQTU with a vacuum truck is generally the most effective and

convenient method of excavating pollutants from the System. If such a truck is not available, a "clamshell" grab may be used, but it is difficult to remove all accumulated pollutants with such devices. Oil or gasoline spills should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more

routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use adsorbent pads since they are usually cheaper to dispose of than the oil water emulsion that may be created by vacuuming the oily layer. Trash can be netted out if you wish to separate it from the other pollutants. Accumulated sediment is typically evacuated through the manhole over the grit chamber. Simply remove the cover and insert the vacuum hose into the grit chamber. As water is evacuated, the water level outside of the grit chamber will drop to the same level as the crest of the lower aperture of the grit chamber. It will not drop below this level due to the fact that the bottom and sides of the grit chamber are sealed to the tank floor and walls. This "Water Lock" feature prevents and trash. Any toxic waste materials are to be disposed of according to local and state laws. | water from migrating into the grit chamber, exposing the bottom of the baffle wall. Floating pollutants will decant into the grit chamber as the water level there is drawn down. This allows most floating material to be withdrawn from the same

> it may be necessary to pump out all chambers. It is a good idea to check for accumulation in all chambers during each maintenance event to prevent sediment build up there. Manhole covers should be securely seated following cleaning activities, to ensure that surface runoff does not leak into the unit from above. After a storm event, treated runoff is decanted out of the SQTU at a controlled rate, restoring the water level to a low dry-weather volume. This reveals a conical pile of accumulated sediment in the center of the grit chamber. Besides facilitating inspection and cleaning through the unobstructed access, the low water level significantly reduces maintenance

If maintenance is not performed as recommended, sediment may accumulate outside the grit chamber. If this is the case,

costs by decreasing pump-out volume. Note: As the generator, the landowner is ultimately responsible for the proper disposal of material removed from water quality treatment structures. Quarterly inspections of the SQTU shall include observation of the accumulated sediment. Pollutant deposition and transport may vary from year to year and quarterly inspections will help insure that the systems are cleaned out at the appropriate time. Inspections should be performed more often in the winter months in climates where sanding operations may lead to rapid accumulations, or in equipment wash down areas.

C6 Entity That Will Be Responsible For Operation And Maintenance Of The Post-Construction Stormwater Measures: Matt Rapp, Director of Facilities, Hamilton Southeastern School Corp., 13485 Cumberland Rd., Fishers, IN 46038

GENERAL SEEDING and SURFACE STABILIZATION PROCEDURES

Table 1. Temporary Seeding Specifications

Planting Depth Optimum Dates 2 Seed Species 1 Rate per Acre Wheat or Rve 150 lbs. 1 to 1-1/2 inches | Sept. 15 - Oct. 30 Spring Oats 1 inch March 1 - April 15 1-1/4 inch March 1 - May Annual Ryegrass | 40 lbs. Aug. 1 - Sept. 1

- Perennial species may be used as a temporary cover, especially if the area to be seeded will remain idle for more than one year (See Permanent Seeding).
- Seeding done outside the optimum seeding dates increases the chances of seeding failure. Dates may be extended or shortened based on the location of the project site within the state.
- Notes: Mulch alone is an acceptable temporary cover and may be used in lieu of temporary seeding, provided that it is appropriately anchored. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

Seedbed Preparation

- Test soil to determine pH and nutrient levels.
- 2. Apply soil amendments as recommended by the soil test. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis fertilizer, or equivalent. 3. Work the soil amendments into the upper two to four inches of the soil with a disk or rake operated across the slope.
- Select a seed species or an appropriate seed mixture and application rate from Table 1. 2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover seed to the depth shown in Table 1.
- . If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. Daily seeding when the soil is moist is usually most effective.

2. If seeding is done with a hydroseeder, fertilizer and mulch can be applied with the seed in a

3. Apply mulch (See Mulching and Compost Mulching Requirements Below) and anchor it in place.

Inspect within 24 hours of each rain event and at least once every seven calendar days. Check for erosion or movement of mulch and repair immediately. Monitor for erosion damage and adequate cover (80 percent density); reseed, fertilize, and apply mulch where necessary. If nitrogen deficiency is apparent, top-dress fall seeded wheat or rye seeding with 50 pounds per acre of nitrogen in February or March.

SECTION B CONT'D

BMP - Underground Detention Inspection and Maintenance of Underground Detention Inspections A. The frequency of inspections outlined should be considered the minimum, if no events warrant additional inspections. See Maintenance Inspections Checklist for inspection frequencies. It is advisable that all visual inspection be performed after each sizable storm event. Inspections should be performed by personnel experienced in the maintenance of each element.

. Structural Elements — At a minimum, the structural elements of the underground detention should be thoroughly inspected once a year. Several of the structural elements may need more frequent inspections. Refer to the Maintenance Inspections Checklist. The inspections should include the

- The inside of the detention structure(s) should be inspected for cracks, spalling, joint failure or leaks a minimum of once per year. If signs of cracks, leaks, misalignment, sagging or settlement of the structures or arch structures are observed, a Civil Engineer or Geotechnical Engineer should be retained to determine the probable cause and recommended remediation. • The orifice and overflow weir and outlet pipes at outlet STR. 723 should be inspected for
- debris or sediment accumulation after every major storm event. Any sediment or debris removal should be removed to prevent blockage. Do NOT flush sediment downstream. The outlet pipe and storage pipes should be visually inspected for sagging and alignment a

A. Ground Surface — The ground surface jpavement should be inspected a minimum of once per vear. Visual inspection should be done in areas where any underground storage devices are located. If there is any signs of pavement settling, a Civil Engineer should be retained to determine the probable cause and recommended remediation.

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(2) PERMANENT SEEDING

Site Preparation

1.Grade the site to achieve positive drainage. 2. Add topsoil or compost mulch to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient

- Seedbed Preparation 1.Test soil to determine pH and nutrient levels. 2. Apply soil amendments as recommended by the soil test and work into the upper two to four
- inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12-12-12 analysis
- fertilizer, or equivalent. 3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.
- Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside or beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover of 85% is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.
- 1. Use a seeding mixture and rate from Table 1 Permanent Seeding Recommendations. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance. 2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one-fourth to one-half inch. If drilling or broadcasting the seed, ensure good seed-to-soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed
- 3. Mulch all seeded areas and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels.
- 1. Inspect within 24 hours of each rain event and at least once every seven calendar days until the vegetation is successfully established. 2. Characteristics of a successful stand include vigorous dark green or bluishgreen seedlings with a
 - uniform vegetative cover density of 90 percent or more. 3. Check for erosion or movement of mulch. 4. Repair damaged, bare, gullied, or sparsely vegetated areas and then fertilize, reseed, and apply and
 - anchor mulch 5. If plant cover is sparse or patchy, evaluate the plant materials chosen, soil fertility, moisture
 - condition, and mulch application; repair affected areas either by overseeding or preparing a new seedbed and reseeding. Apply and anchor mulch on the newly seeded areas. 6. If vegetation fails to grow, consider soil testing to determine soil pH or nutrient deficiency problems.
 - (Contact your soil and water conservation district or cooperative extension office for assistance.) 7. If additional fertilization is needed to get a satisfactory stand, do so according to soil test 8. Add fertilizer the following growing season. Fertilize according to soil test recommendations.
 - 9. Fertilize turf areas annually. Apply fertilizer in a split application. For cool-season grasses, apply one-half of the fertilizer in late spring and one-half in early fall. For warm-season grasses, apply one-third in early spring, one-third in late spring, and the remaining one-third in middle summer.

Table 1 Permanent Seeding Recommendations

in a slurry mixture.)

Typical Lawn Seed: Provide fresh, clean, new crop seed complying with tolerance for purity and germination established by Official Seed Analysts of North America. Provide seed mixture composed of grass species, proportions and minimum percentages of 95% purity, 95% germination, and maximum percentage of 0.5% weed seed per the chart below.

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
Perennial ryegrass white clover	150 lbs. 2 lbs.	5.5 to 7.0
2. 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 1 - white clover	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue 2 - perennial ryegrass - Kentucky bluegrass1	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

3) MULCHING

Materials

Wood fiber

or cellulose1

Table 1. Mulch Specifications Material 1 Rate per Acre Straw or Hay | 2 tons Shall be dry, free of undesirable seeds. Spread by hand or machine. Must be crimped or anchored (See Table 2)

1 Mulching is not recommended in concentrated flows. Consider erosion control blankets or other stabilization methods.

use with tacking agent.

Apply with a hydraulic mulch machine and

How to Apply

The mulch should have a uniform density of at least 80 percent over the soil surface.

Table 2. Mulch Anchoring Methods

Anchoring Method

Mulch anchoring tool or farm disk (dull, serrated, and blades set straight)	Crimp or punch the straw or hay two to four inches into the soil. Operate machinery on the contour of the slope.
Cleating with dozer tracks	Operate dozer up and down slope to prevent formation of rills by dozer cleats
Wood hydromulch fibers	Apply according to manufacturer's recommendations.
Synthetic tackifiers, binders, or soil stabilizers Netting (synthetic or biodegradable	Apply according to manufacturer's recommendations.
material)	Install netting immediately after applying mulch. Anchor netting with staples. Edges of netting strips should overlap with each up—slope strip overlapping four to six inches over the adjacent down—slope strip. Best suited to slope applications. In most instances, installation details are site specific, so manufacturer's recommendations should be followed.

1 All forms of mulch must be anchored to prevent displacement by wind and/or water.

1. Apply mulch at the recommended rate shown in Table 1.

2. Spread the mulch material uniformly by hand, hayfork, mulch blower, or hydraulic mulch machine. After spreading, no more than 25 percent of the ground should be visible. 3. Anchor straw or hay mulch immediately after application. The mulch can be anchored using one of the methods listed below: a. Crimp with a mulch anchoring tool, a weighted farm disk with dull serrated blades set straight, or

b. Apply hydraulic mulch with short cellulose fibers, c. Apply a liquid tackifier, or d. Cover with netting secured by staples

track cleats of a bulldozer,

- 1. Inspect within 24 hours of each rain event and at least once every seven calendar days. 2. Check for erosion or movement of mulch; repair damaged areas, reseed, apply new mulch and anchor the mulch in place.
- 3. Continue inspections until vegetation is firmly established. 4. If erosion is severe or recurring, use erosion control blankets or other more substantial stabilization

methods to protect the area.

(6) Compost Mulching Compost Specifications

- Feedstocks may include but are not limited to well-composted vegetable matter, leaves, yard trimmings, food scraps, composted manures, paper fiber, wood bark, Class A biosolids (as defined in Title 40 of the Code of Federal Regulations at 40 CFR Part 503), or any combination thereof. 2. Compost shall be produced using an aerobic composting process meeting 40 CFR Part 503 regulations, including time and temperature data indicating effective weed seed, pathogen, and insect larvae kill.
- 3. Compost shall be well decomposed, stable, and weed free. 4. Refuse free (less than one percent by weight). 5. Free of any contaminants and materials toxic to plant growth
- 6. Inert materials not to exceed one percent by dry weight pH of 5.5 to 8.0. 7. Carbon-nitrogen ratio not to exceed 100. 8. Moisture content not to exceed 45 percent by dry weight.
- 9. Variable particle size with maximum dimensions of three inches in length, one—half inch in width and one-half inch in depth.

Table 1. Compost Particle Size

Percent Passing Sieve Size				
2-Inch Sieve	1-Inch Sieve	3/4-Inch Sieve	>1/4-Inch Sieve	
100%	99%	90%	25%	
100%	3376	30%	25/6	

Bonding Agents (optional)

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Be

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); avera depths determined. For areas of alluvial fan flooding, velocities also deter

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determine

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevation determined.

ONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 squar mile; and areas protected by levees from 1% annual chance flood.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

Boundary dividing Special Flood Hazard Area Zones and bou dividing Special Flood Hazard Areas of different Base Flood I flood depths, or flood velocities.

Base Flood Elevation rine and value,

(EL 987) Base Flood Elevation value where uniform within zone; elefect*
...

45° 02' 08", 93° 02' 12" Geographic coordinates referenced to the North 1983 (NAD 83) Western Hemisphere

5000-foot ticks: Indiana State Plane East Zone (FIPS Zone 1301), Transverse Mercator projection

River Mile MAP REPOSITORIES Refer to Map Repositories list on Map Index

FLOOD INSURANCE RATE MAP February 19, 2003

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL November 19, 2014 - to update corporate limits and to change Special Flood Hazard Area

For community map revision history prior to countywide mapping, refer to the Communit Map History table located in the Flood Insurance Study report for this jurisdiction.

MAP SCALE 1" = 500'

FIRM

PANEL 234 OF 300

PANEL 0234G

FLOOD INSURANCE RATE MA

HAMILTON COUNTY.

INDIANA AND INCORPORATED AREAS

Notice to User: The Map Number shown should be used when placing map orde Community Number shown above sho used on insurance applications for the

MAP REVISED NOVEMBER 19, 2014

To determine if flood insurance is available in this community, contact you or call the National Flood Insurance Program at 1-800-638-6620.

OTHERWISE PROTECTED AREAS (OPAs)

Zone D boundary

A Cross section line

DX5510 × •M1.5

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood 6 determined.

The floodway is the channel of a stream plus any adjacent floodplain areas that must encroachment so that the 1% annual chance flood can be carried without substantial flood halphore.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

OTHER AREAS

Special Flood Hazard Areas formerly protected from the 1% annual of flood by a flood control system that was subsequently decertified. Zo AR indicates that the former flood control system is being restored to

Taclcifiers, flocculants, or microbial additives may be used to remove sediment and/or additional pollutants from storm water runoff. (All additives combined with compost materials should be tested for physical results at a certified erosion and sediment control laboratory and biologically tested for elevated beneficial microorganisms at a United States Compost Council, Seal of Testing Assurance, approved testing laboratory.) Soil Material (optional) Five percent to ten percent sandy loam (as classified by the U.S. Department of Agriculture soil

classification system). Ninety percent or greater over the soil surface.

Anchoring Method • Moisten compost/mulch blanket for a minimum of 60 days. • Erosion control netting (optional).

Table 2. Compost Blanket Thickness

Cover Thickness

Slope		Thickness of Compost Blanket	Thickness of Compost Blanket with Erosion Control Netting
< 25%	< 4:1	1 to 2 inches	Not Applicable
25% to 50%	4:1 to 2:1	1 to 2 inches	2 inches
> 50%	> 2:1	2 to 3 inches	3 inches

- 1. Remove existing vegetation, large soil clods, rocks, stumps, large roots, and debris in areas where compost mulch is to be applied and dispose of in designated areas. 2. Scarify sloping areas.
- 3. Aerate areas to be covered with compost/mulch blanket. (Proper aeration will require a minimum of two passes oriented in opposite directions.) 4. Broadcast a minimum of one pound of nitrogen (N), one—half pound of phosphorous (P205), and one-half pound of potash (K20) per 1,000 square feet or 300 to 400 pounds per acre of 12-12-12
- analysis fertilizer, or equivalent, per acre. 5. Apply compost mulch blanket with a pneumatic blower or per manufacturer's directions. a. Apply within three days of completing geration operations.
- b. Overlap top of slope shoulder by five to ten feet. c. Seed may be applied at time of installation. (Seed must be evenly blended into the compost if applied with a pneumatic blower or applied with a calibrated seeder attachment prior to installation of the compost blanket.)
- be necessary to install erosion control netting over the compost blanket.) a. Mist blanket for first seven days and then every three days throughout the remainder of the 60-day

5. Water compost mulch blanket for a period of 60 days following application. (On steeper slopes, it may

- b. Maintain a constant moisture content of 40 percent to 60 percent. Inspect within 24 hours of a rain event and at least once every seven calendar days.
- Repair eroded areas. Reseed, if applicable.
- Monitor vegetation and apply appropriate soil amendments (if needed) per a soil test.

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TARY SCHOOL ENOVATIONS LOPMENT TERN RS, IN ON 3.5.6 ISHERS ADDITIC SCOPE DRAWINGS: These drawings indicate the general scope of the projeterms of architectural design concept, the dimensions of a building, the major architectural elements and the type of structural, mechanical and electrical systems.

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

On the basis of the general scope indicated or describe

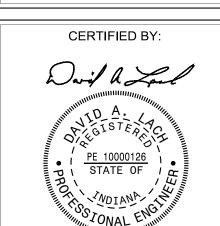
REVISIONS:

02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023 KDK

DRAWING TITLE: **STORMWATER POLLUTION PREVENTION** PLAN



DRAWING NUMBER

PROJECT NUMBER



CONTACT TBD WURSTER CONSTRUCTION 8463 CASTLEWOOD DR, #100 INDIANAPOLIS, IN 46250 DISTRICT OFFICE: (317) 594-4100

Person Responsible for Installation and

Maintenance of Erosion and Sediment Control

A28 Location of Site Improvements: Road, Utilities, Lot Delineation and Identification, **Proposed Structures and Common Areas:**

A29 Location of all On-Site and Off-Site Soil Stockpiles and Borrow Areas: See sheet C401. No off-site stockpiles are anticipated for this project.

A30 Construction Support Activities as part of the Project: See sheet C401. No stream activity is occurring with this project.

A31 Location of in Stream Activities; Including Stream Crossings and Pump Arounds:

ASSESSMENT OF STORMWATER POLLUTION PREVENTION PLAN-CONSTRUCTION COMPONENT (SECTION B) B1 Description Of The Potential Pollutant Generating Sources And Pollutants, Including All

The primary pollutant associated with construction activities is sediment. Additional pollutants may be generated by construction vehicle operation and maintenance (e.g. fueling, changing hydraulic fluids and oils); concrete washout; improper storage of construction materials; improper disposal of construction trash and debris; improper application or over application of fertilizers and pesticides; and improper storage, application, and disposal of soluble materials or other materials that may be mobilized by storm water runoff. Equipment and fuel will be store in a central location and the contractor shall institute methods and procedures to prevent

B2 Stable Construction Entrance Locations And Specifications:

B3 Specifications for temporary and permanent stabilization:

<u>B4 Sediment Control Measures For Concentrated Flow Areas</u>: Adequate erosion control measures must be installed within these areas prior to opening for runoff acceptance. If it is a steep slope, an erosion control blanket should be installed prior to Department of Transportation right-of-way. The outfall connection is located opening. Stabilize disturbed areas directly after earth disturbing activities. Temporary seed areas scheduled to be idle for up to 15 days. Permanently seed all areas that are at final grade, phase projects where each subsequent phase will not begin for 8 months or more, and areas to be idle for more than one year. See sheets C401 and C402 for erosion control measures to be installed in concentrated flow areas. See sheet C403 for details as well as installation

See erosion and sediment control sequences and implementation on sheets C401.

B5 Sediment Control Measures For Sheet Flow Areas Preliminary grading and stabilization must be completed to ensure adequate drainage to the

sheet C401 for locations and C403 for details.

B8 Grade Stabilization Structure Locations And Specifications:

B9 Dewatering Applications And Management Methods:

B10 Measures Utilized For Work Within Waterbodies:

Quality Measures In Relation To Land Disturbance:

Regulated Under The Proposed Project:

containers or dumpsters for proper disposal.

stormwater quality measures.

temporary or permanent runoff conveyance facilities. Silt fencing must also be implemented prior to any construction activity to ensure silt collection. Stabilize disturbed areas directly after earth disturbing activities, temporary seed areas scheduled to be idle for up to one year. Permanently seed all areas that are at final grade, phase projects where each subsequent phase will not begin for 8 months or more, and areas to be idle for more than one year. Erosion control measures to be installed in Sheet Flow Areas include silt fencing with reinforced stone check dam outlets and gravel bag weirs at construction entrances and proposed drives. See sheet C401 for locations and sheets C403 for details as well as

Gravel bag weirs, silt fence, and outlet structures shall be used for runoff control. See

Any dewatering activities shall be brought to the attention of the engineer for approval. Submit

shop drawings prior to the start of excavation, that are complete plans and describing the

Please refer to the Operations and Maintenance Manual for information on the proposed

B12 Planned Construction Sequence That Describes The Implementation Of Stormwater

B13 Provisions For Erosion And Sediment Control On Individual Residential Building Lots

B14 Material Handling And Spill Prevention And Spill Response Plan Meeting The Requirements

Expected construction materials on site may include vehicle lubricants, oils, vehicular fuels,

Small spills and leaks of these materials onto non-paved areas will be shoveled into

concrete wash-out, acids, curing compounds, paints, mulch, pesticides, herbicides, fertilizer,

Fueling trucks will be equipped with spill prevention kits for smaller fuel spills. All vehicular

maintenance shall be performed in the same designated area throughout the construction

time frame. If possible, vehicular maintenance shall be done off-site at facilities that are

Environmental Management, Office of Emergency Response (800) 233-7745, shall be notified

immediately for larger spills or leaks. The National Response Center (800) 424-8802 shall be

notified and provided with the following information: Time of Spill, Location of Spill, Material,

Source of Spill, Approximate Volume and Length of Spillage, Weather Conditions at Time of

Spill, Personal Present at Time of Spill, and All Action Taken for Post Spill Cleanup.

designed to handle any material spillage. This shall include fueling of vehicles whenever possible. The City of Fishers Fire Department (317) 595-3200 or 911, Indiana Department of

overall dewater system. See Specification 31 23 19 Dewatering. Discharged water bust be

B11 Maintenance Guidelines For Each Proposed Stormwater Quality Measure:

Refer to "Erosion and Sediment Control Sequence and Implementation" above.

installation and maintenance procedures. See this sheet (C402) for seeding guidelines.

B6 Runoff Control Measures:

and maintenance procedure.

An IDEM permit is required for this project. **B7 Stormwater Outlet Protection Specifications** Outlet protection is not required for this project

A16 Existing Topography to Indicate Drainage Patterns:

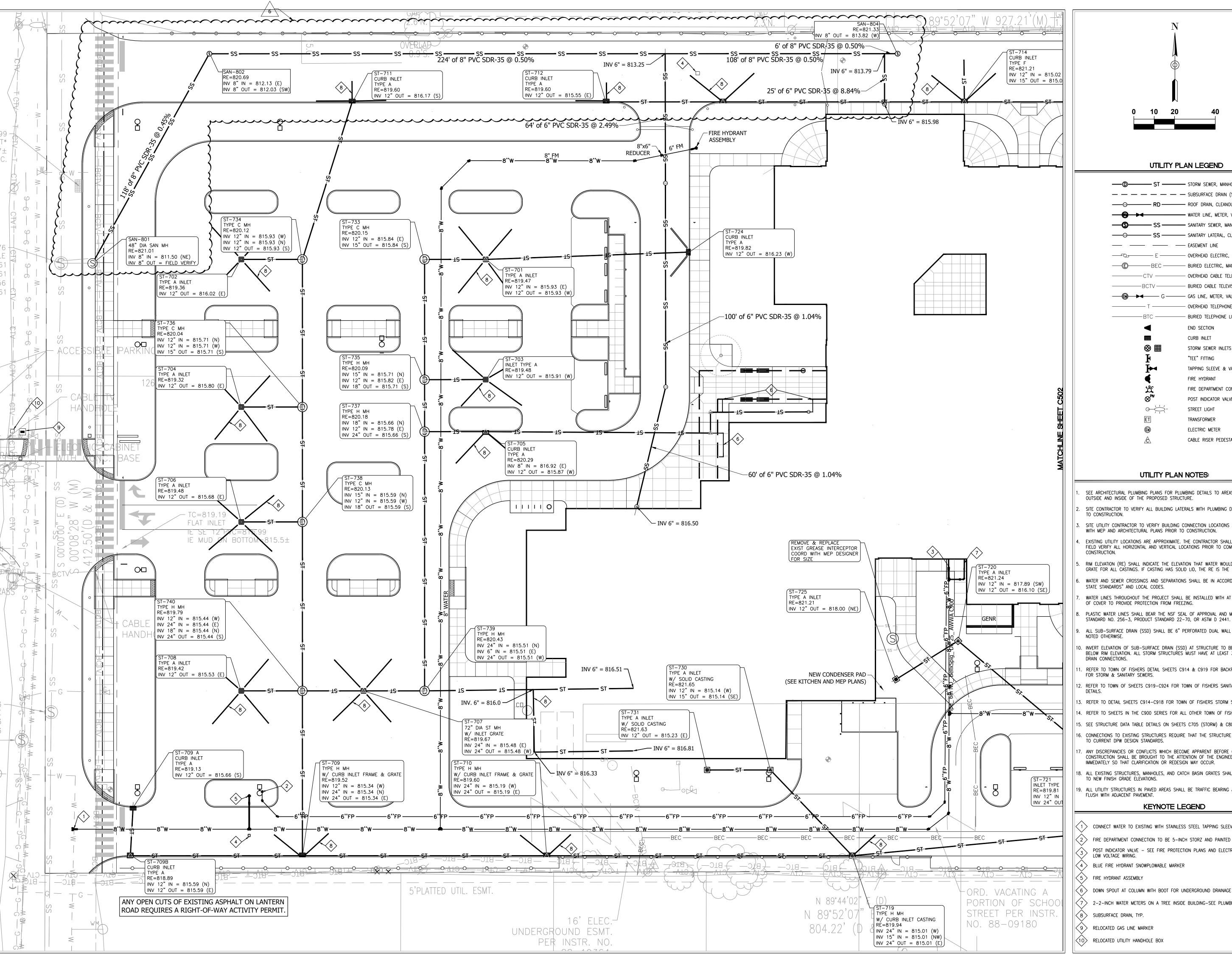
treated with an appropriate sediment control measure or measures, prior to discharge. Other measures such as sediment basins and sediment traps or the use of flocculants should be A18 Loctaions(s) Where Run-off Discharges From The Site Prior to Land considered components of items (B4) and (B5) above.

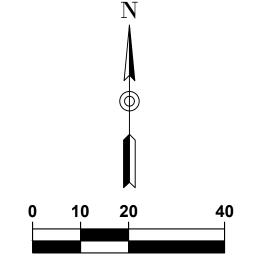
C503 for details. A21 Locations of Abandoned Wells, Sinkholes and Karst Features Where

A22 Size of Project Area in acres:

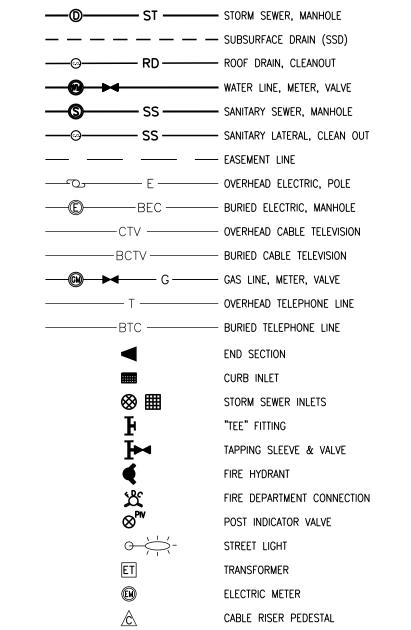
15 inch RCP outfall pipe.







UTILITY PLAN LEGEND



UTILITY PLAN NOTES:

- SEE ARCHITECTURAL PLUMBING PLANS FOR PLUMBING DETAILS TO AREAS FIVE (5) FEET OUTSIDE AND INSIDE OF THE PROPOSED STRUCTURE.
- SITE CONTRACTOR TO VERIFY ALL BUILDING LATERALS WITH PLUMBING DRAWINGS PRIOR SITE UTILITY CONTRACTOR TO VERIFY BUILDING CONNECTION LOCATIONS AND ELEVATIONS
- WITH MEP AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION. EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF
- RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION. WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH "TEN
- WATER LINES THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 54 INCHES
- OF COVER TO PROVIDE PROTECTION FROM FREEZING. PLASTIC WATER LINES SHALL BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL
- STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441. ALL SUB-SURFACE DRAIN (SSD) SHALL BE 6" PERFORATED DUAL WALL HDPE UNLESS
- INVERT ELEVATION OF SUB-SURFACE DRAIN (SSD) AT STRUCTURE TO BE THREE (3) FEET BELOW RIM ELEVATION. ALL STORM STRUCTURES MUST HAVE AT LEAST 3 SUB SURFACE
- REFER TO TOWN OF FISHERS DETAIL SHEETS C914 & C919 FOR BACKFILL REQUIREMENTS FOR STORM & SANITARY SEWERS. REFER TO TOWN OF SHEETS C919-C924 FOR TOWN OF FISHERS SANITARY SEWER
- 13. REFER TO DETAIL SHEETS C914-C918 FOR TOWN OF FISHERS STORM SEWER DETAILS.
- 14. REFER TO SHEETS IN THE C900 SERIES FOR ALL OTHER TOWN OF FISHERS DETAILS. 15. SEE STRUCTURE DATA TABLE DETAILS ON SHEETS C705 (STORM) & C801 (SANITARY).
- 16. CONNECTIONS TO EXISTING STRUCTURES REQUIRE THAT THE STRUCTURE BE REHABILITATED TO CURRENT DPW DESIGN STANDARDS. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING
- CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR. 8. ALL EXISTING STRUCTURES, MANHOLES, AND CATCH BASIN GRATES SHALL BE ADJUSTED
- TO NEW FINISH GRADE ELEVATIONS.
- 19. ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE TRAFFIC BEARING AND SHALL BE

KEYNOTE LEGEND

- CONNECT WATER TO EXISTING WITH STAINLESS STEEL TAPPING SLEEVE AND VALVE.
- FIRE DEPARTMENT CONNECTION TO BE 5-INCH STORZ AND PAINTED RED. POST INDICATOR VALVE - SEE FIRE PROTECTION PLANS AND ELECTRICAL PLANS FOR
- BLUE FIRE HYDRANT SNOWPLOWABLE MARKER
- FIRE HYDRANT ASSEMBLY
- $\langle 7 \rangle$ 2–2–inch water meters on a tree inside building-see plumbing plans.
- SUBSURFACE DRAIN, TYP.
- 9 RELOCATED GAS LINE MARKER

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

SCOPE DRAWINGS: These drawings indicate the general scope of the projectors of architectural design concept, the dimensions of building, the major architectural elements and the type tructural, mechanical and electrical systems. work required for full performance and completion of the On the basis of the general scope indicated or descr

REVISIONS: 02/12/24 ADDENDUM #4

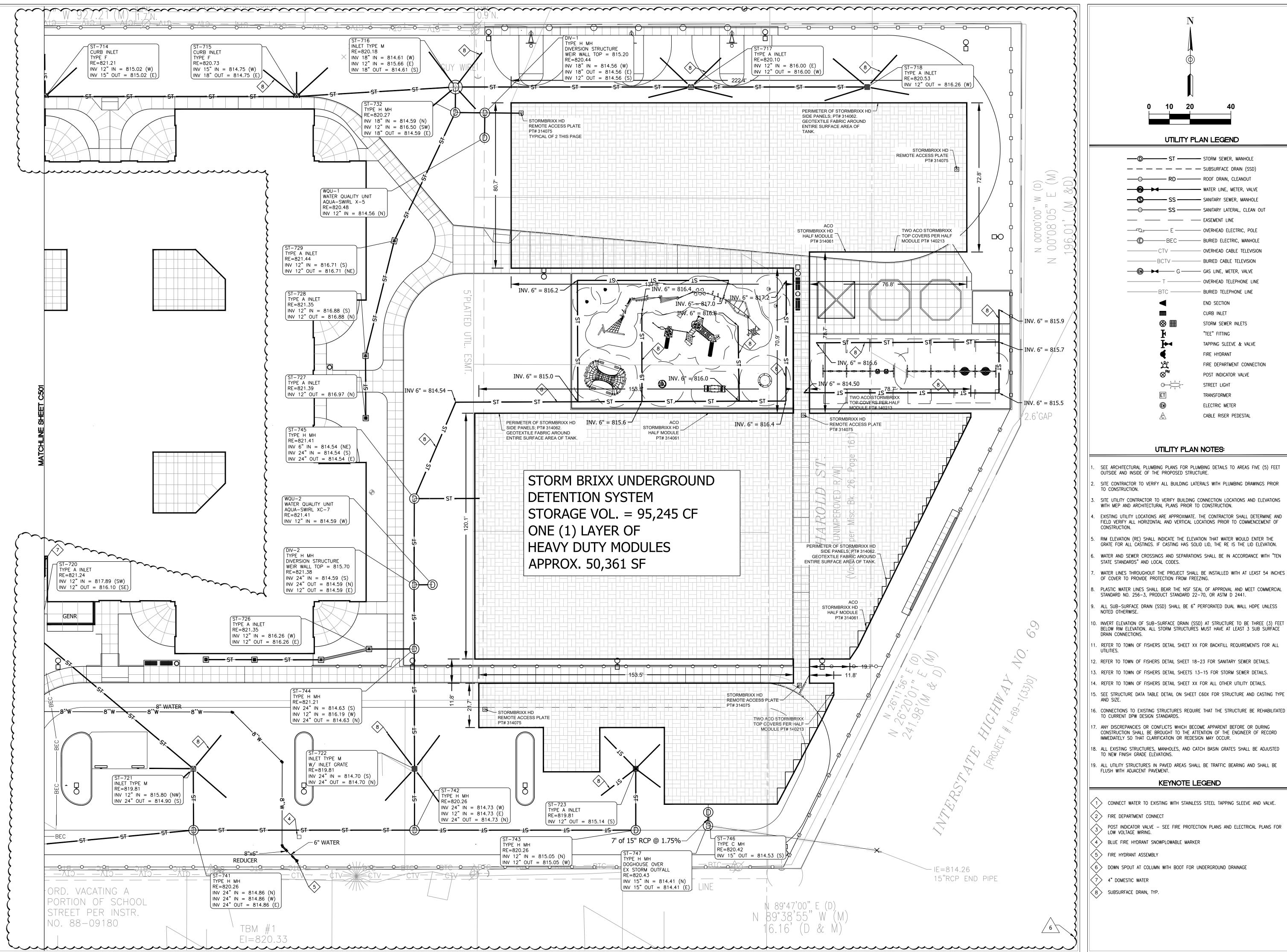
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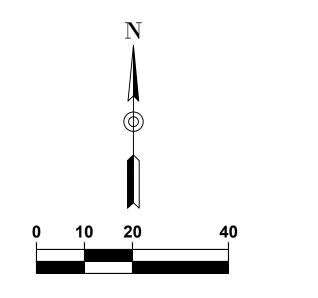
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> DRAWING TITLE: UTILITY PLAN

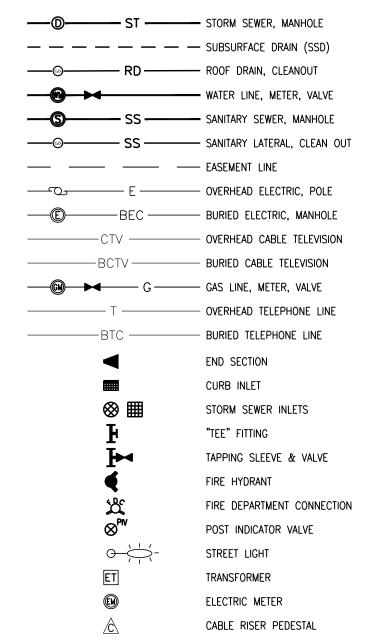
CERTIFIED BY: Dail a Land PE 10000126 STATE OF

DRAWING NUMBER C501





UTILITY PLAN LEGEND



UTILITY PLAN NOTES:

- SEE ARCHITECTURAL PLUMBING PLANS FOR PLUMBING DETAILS TO AREAS FIVE (5) FEET
- SITE CONTRACTOR TO VERIFY ALL BUILDING LATERALS WITH PLUMBING DRAWINGS PRIOR
- SITE UTILITY CONTRACTOR TO VERIFY BUILDING CONNECTION LOCATIONS AND ELEVATIONS WITH MEP AND ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO COMMENCEMENT OF
- RIM ELEVATION (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER THE GRATE FOR ALL CASTINGS. IF CASTING HAS SOLID LID, THE RE IS THE LID ELEVATION. WATER AND SEWER CROSSINGS AND SEPARATIONS SHALL BE IN ACCORDANCE WITH "TEN
- STATE STANDARDS" AND LOCAL CODES.
- OF COVER TO PROVIDE PROTECTION FROM FREEZING.
- PLASTIC WATER LINES SHALL BEAR THE NSF SEAL OF APPROVAL AND MEET COMMERCIAL STANDARD NO. 256-3, PRODUCT STANDARD 22-70, OR ASTM D 2441.
- ALL SUB-SURFACE DRAIN (SSD) SHALL BE 6" PERFORATED DUAL WALL HDPE UNLESS
- BELOW RIM ELEVATION. ALL STORM STRUCTURES MUST HAVE AT LEAST 3 SUB SURFACE DRAIN CONNECTIONS.
- REFER TO TOWN OF FISHERS DETAIL SHEET XX FOR BACKFILL REQUIREMENTS FOR ALL
- 12. REFER TO TOWN OF FISHERS DETAIL SHEET 18-23 FOR SANITARY SEWER DETAILS.
- 13. REFER TO TOWN OF FISHERS DETAIL SHEETS 13-15 FOR STORM SEWER DETAILS. 14. REFER TO TOWN OF FISHERS DETAIL SHEET XX FOR ALL OTHER UTILITY DETAILS.
- 15. SEE STRUCTURE DATA TABLE DETAIL ON SHEET C60X FOR STRUCTURE AND CASTING TYPE
- 16. CONNECTIONS TO EXISTING STRUCTURES REQUIRE THAT THE STRUCTURE BE REHABILITATED
- TO CURRENT DPW DESIGN STANDARDS.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD IMMEDIATELY SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 18. ALL EXISTING STRUCTURES, MANHOLES, AND CATCH BASIN GRATES SHALL BE ADJUSTED
- 9. ALL UTILITY STRUCTURES IN PAVED AREAS SHALL BE TRAFFIC BEARING AND SHALL BE FLUSH WITH ADJACENT PAVEMENT.

KEYNOTE LEGEND

- \langle 1angle connect water to existing with stainless steel tapping sleeve and valve.
- 2 FIRE DEPARTMENT CONNECT
- POST INDICATOR VALVE SEE FIRE PROTECTION PLANS AND ELECTRICAL PLANS FOR LOW VOLTAGE WIRING.
- 4 BLUE FIRE HYDRANT SNOWPLOWABLE MARKER
- 5 FIRE HYDRANT ASSEMBLY
- (6) DOWN SPOUT AT COLUMN WITH BOOT FOR UNDERGROUND DRAINAGE
- (7) 4" DOMESTIC WATER
- (8) SUBSURFACE DRAIN, TYP.

S & RENOVATIONS
DEVELOPMENT
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46038 FISHERS ELEIV ADDITIONS { DESIGN D

SCOPE DRAWINGS: These drawings indicate the general scope of the proje rms of architectural design concept, the dimensions of building, the major architectural elements and the type work required for full performance and completion of the

REVISIONS:

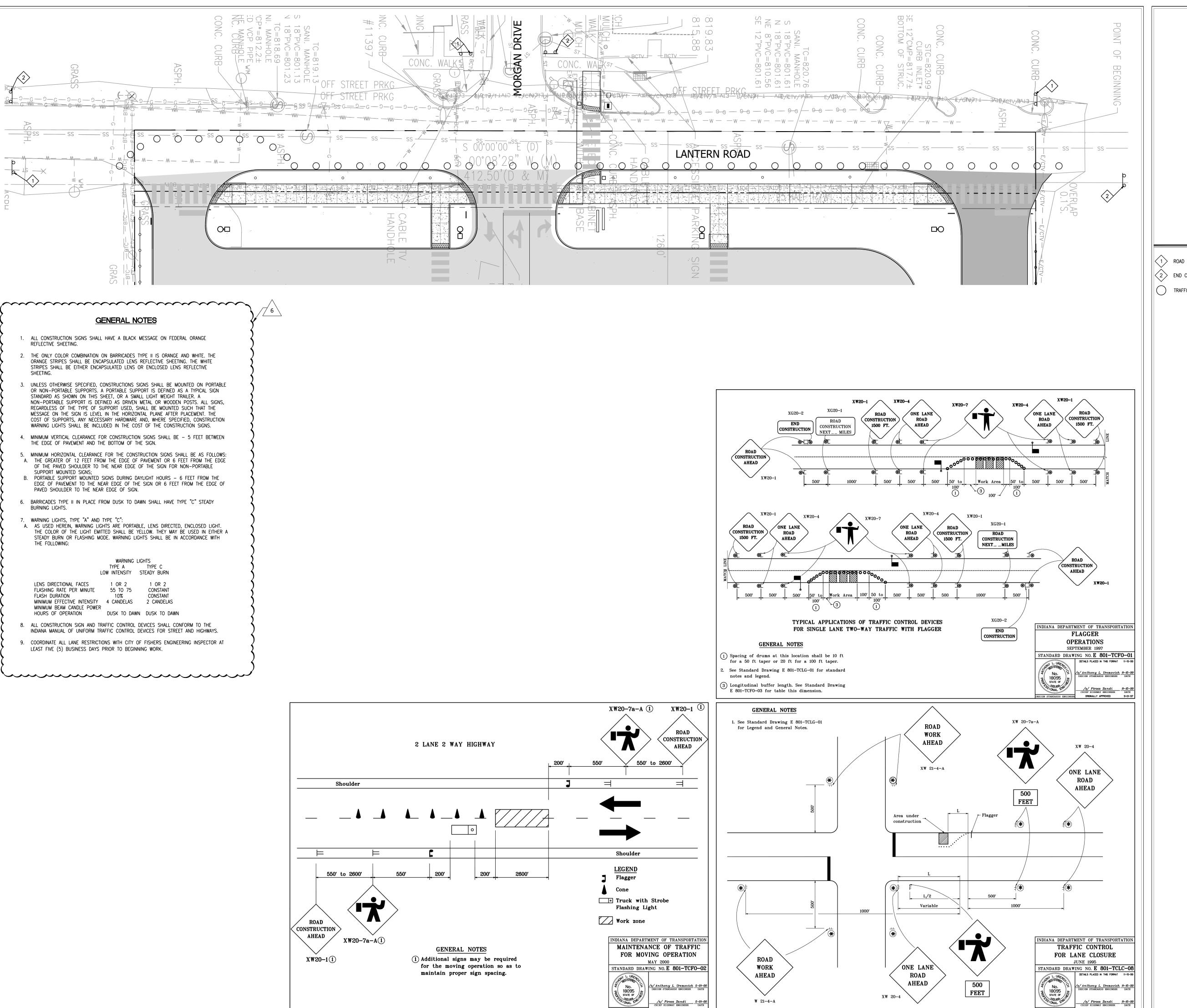
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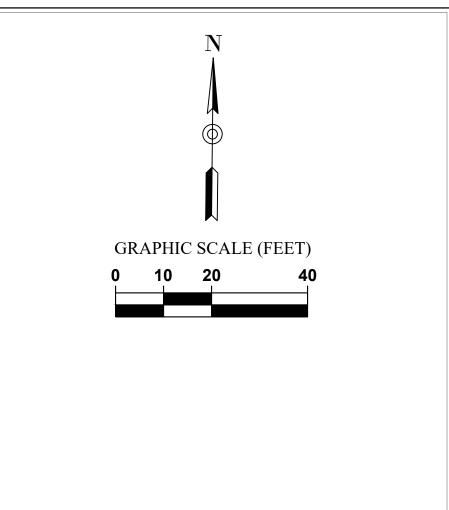
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> **DRAWING TITLE:** UTILITY PLAN



DRAWING NUMBER





KEYNOTE LEGEND

- 1 ROAD CONSTRUCTION AHEAD SIGN
- $|\langle 2 \rangle$ END CONSTRUCTION SIGN
- TRAFFIC BARRELS

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

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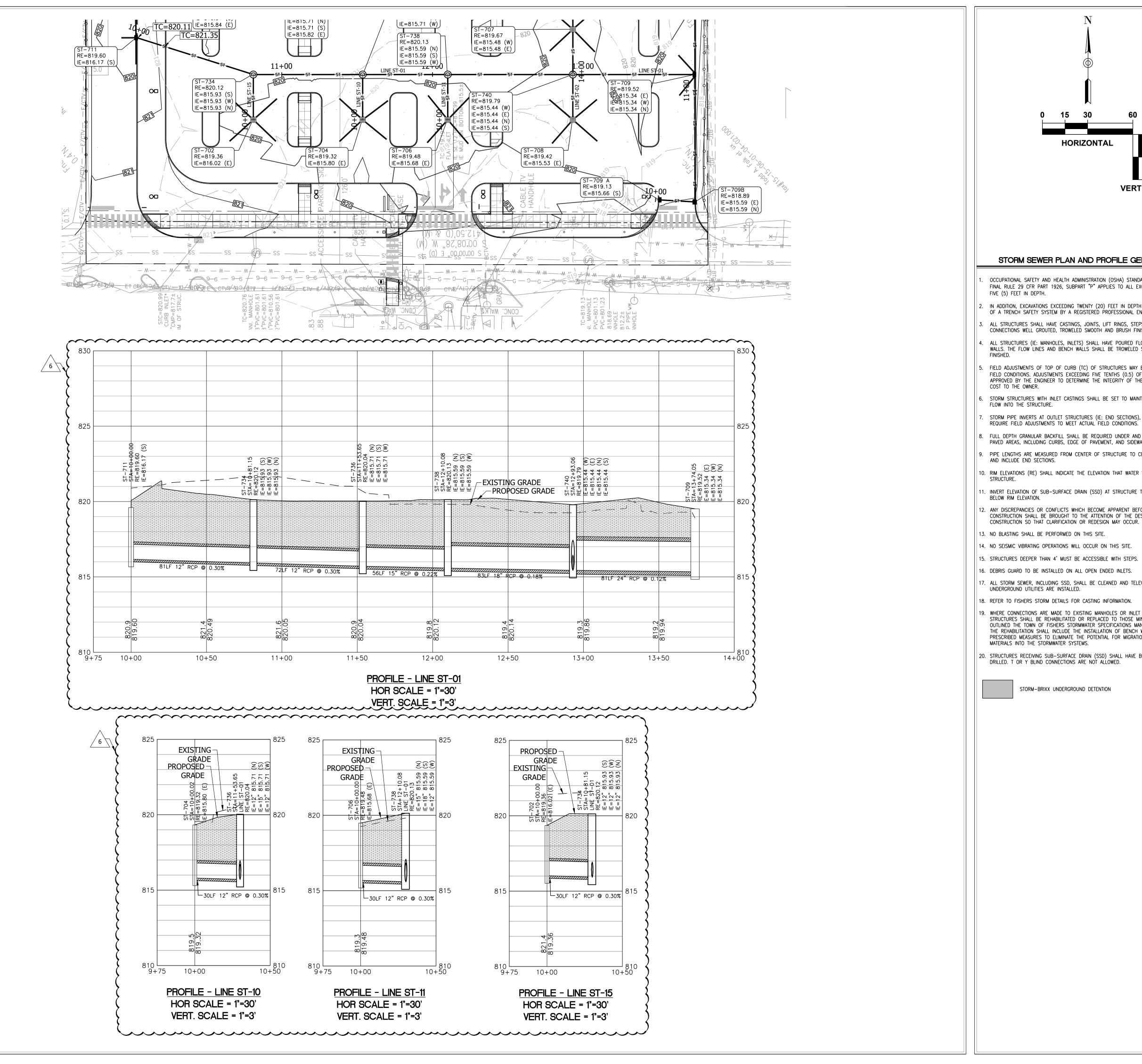
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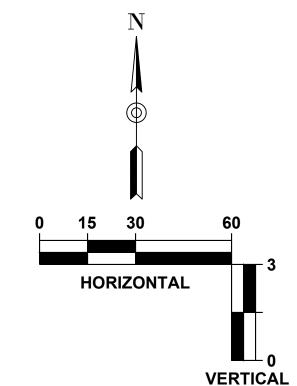
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DRAWING TITLE: **MAINTENANCE** TRAFFIC PLAN

CERTIFIED BY: David a Land

DRAWING NUMBER C601



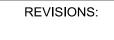


- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
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11442 LANTERN
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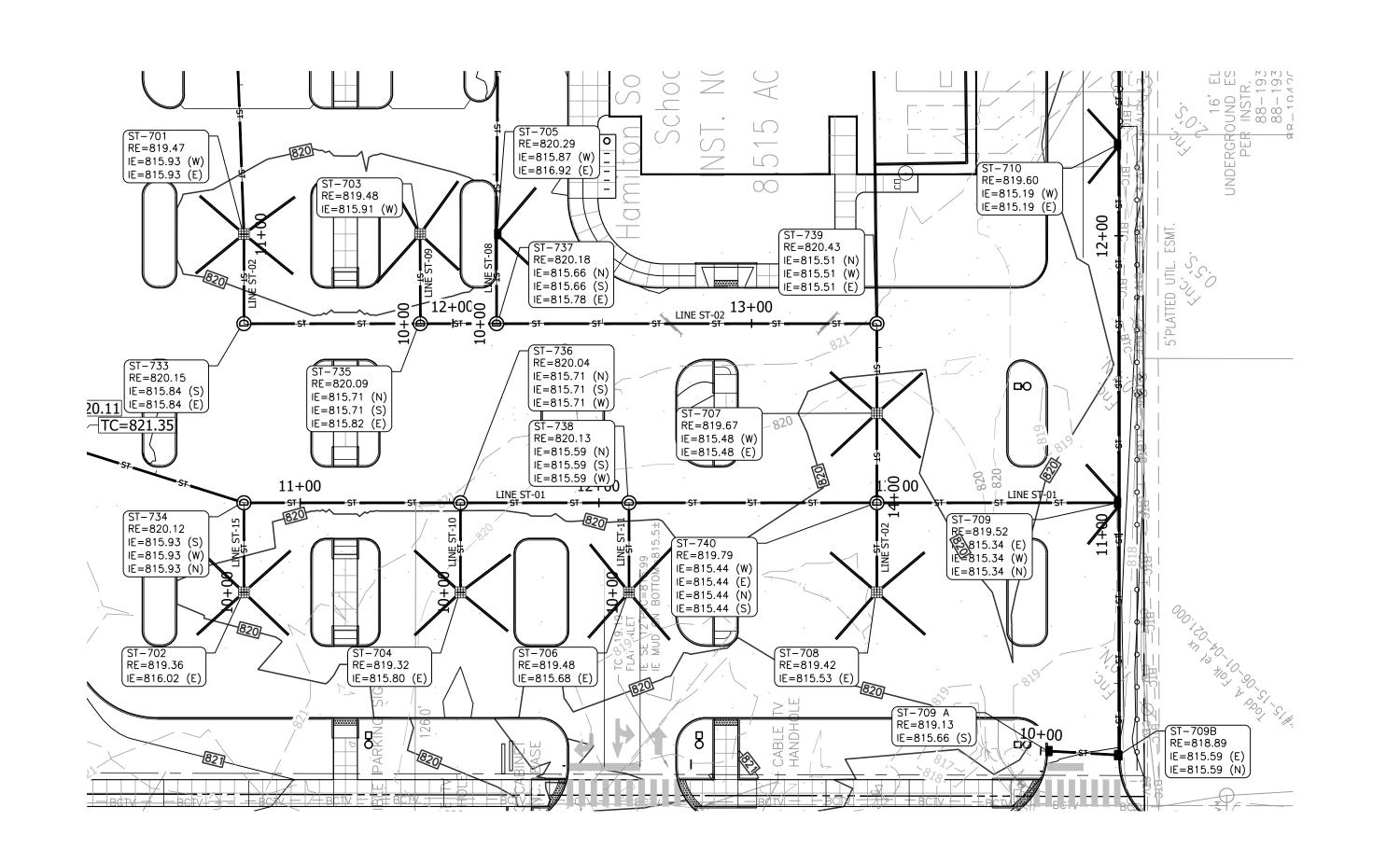
DRAWING TITLE: STORM SEWER **PLAN AND**

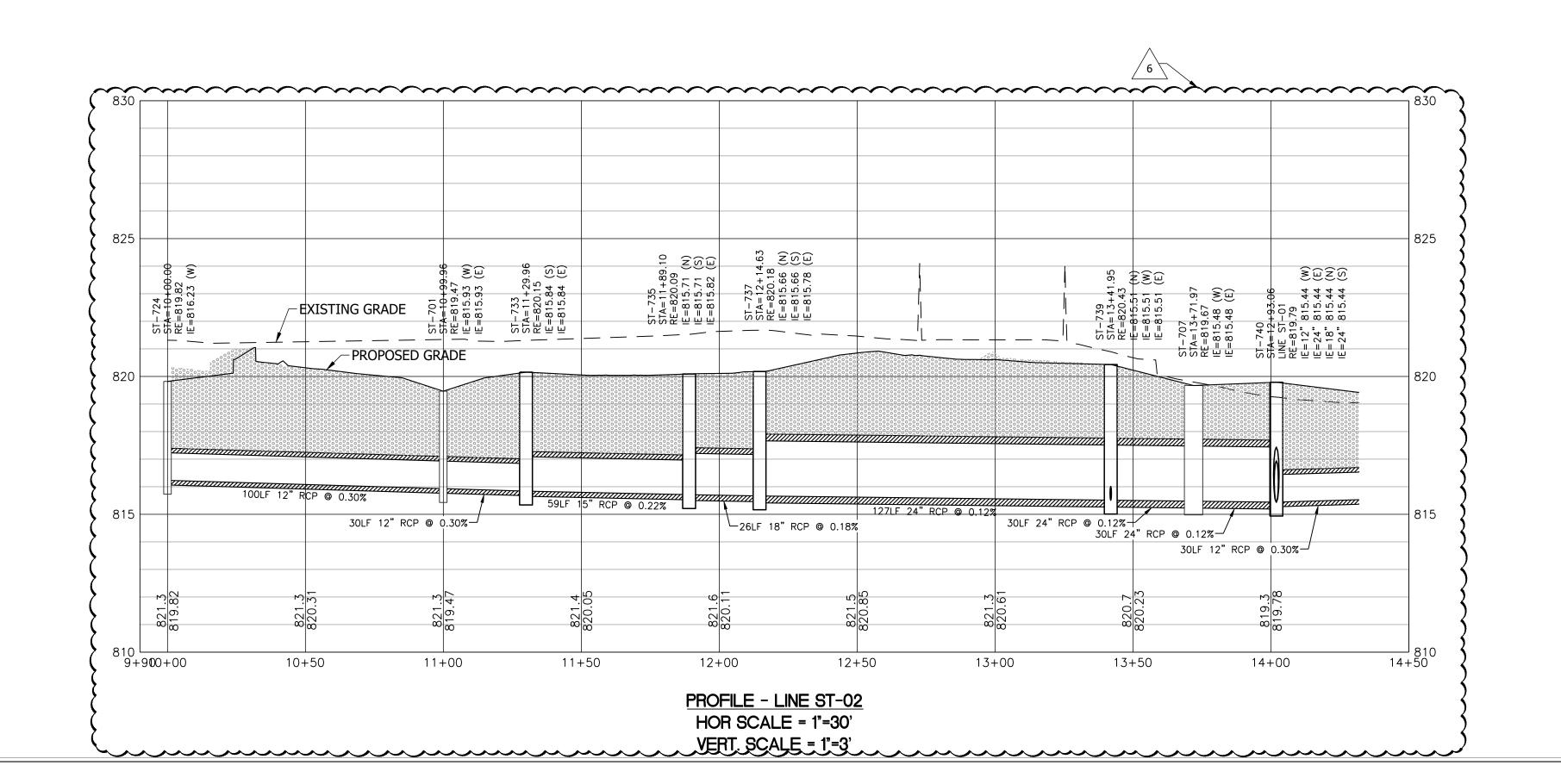
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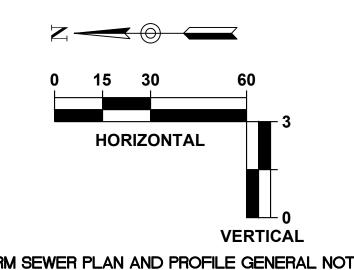
PROFILES



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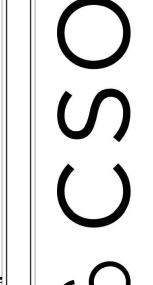






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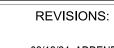




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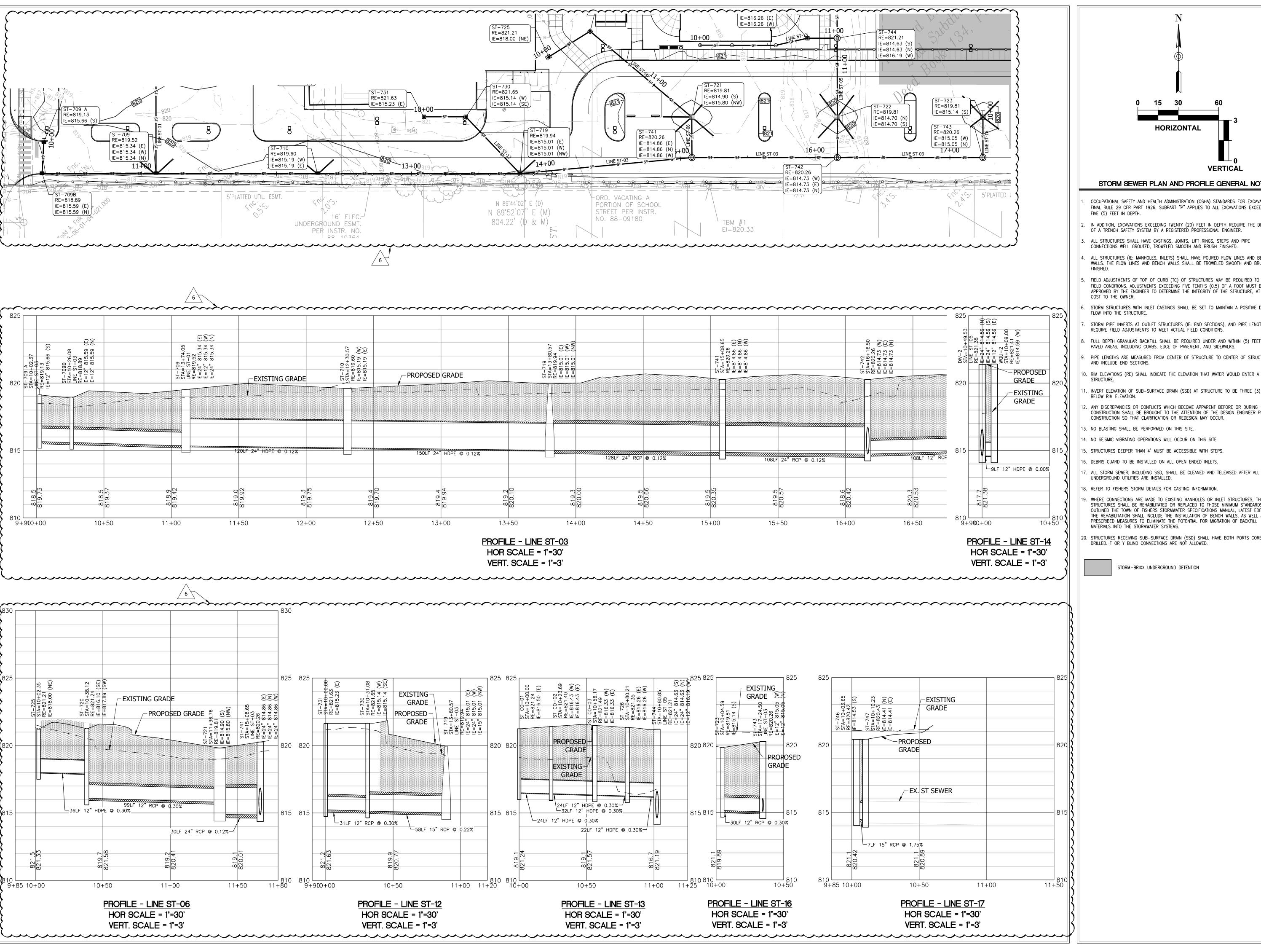
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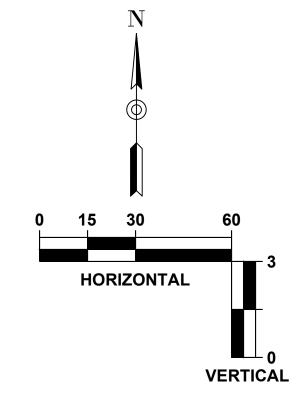
PROFILES

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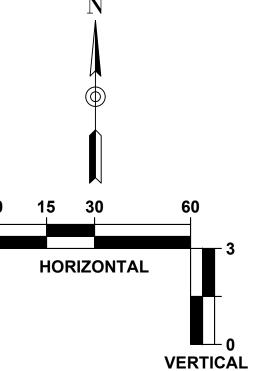


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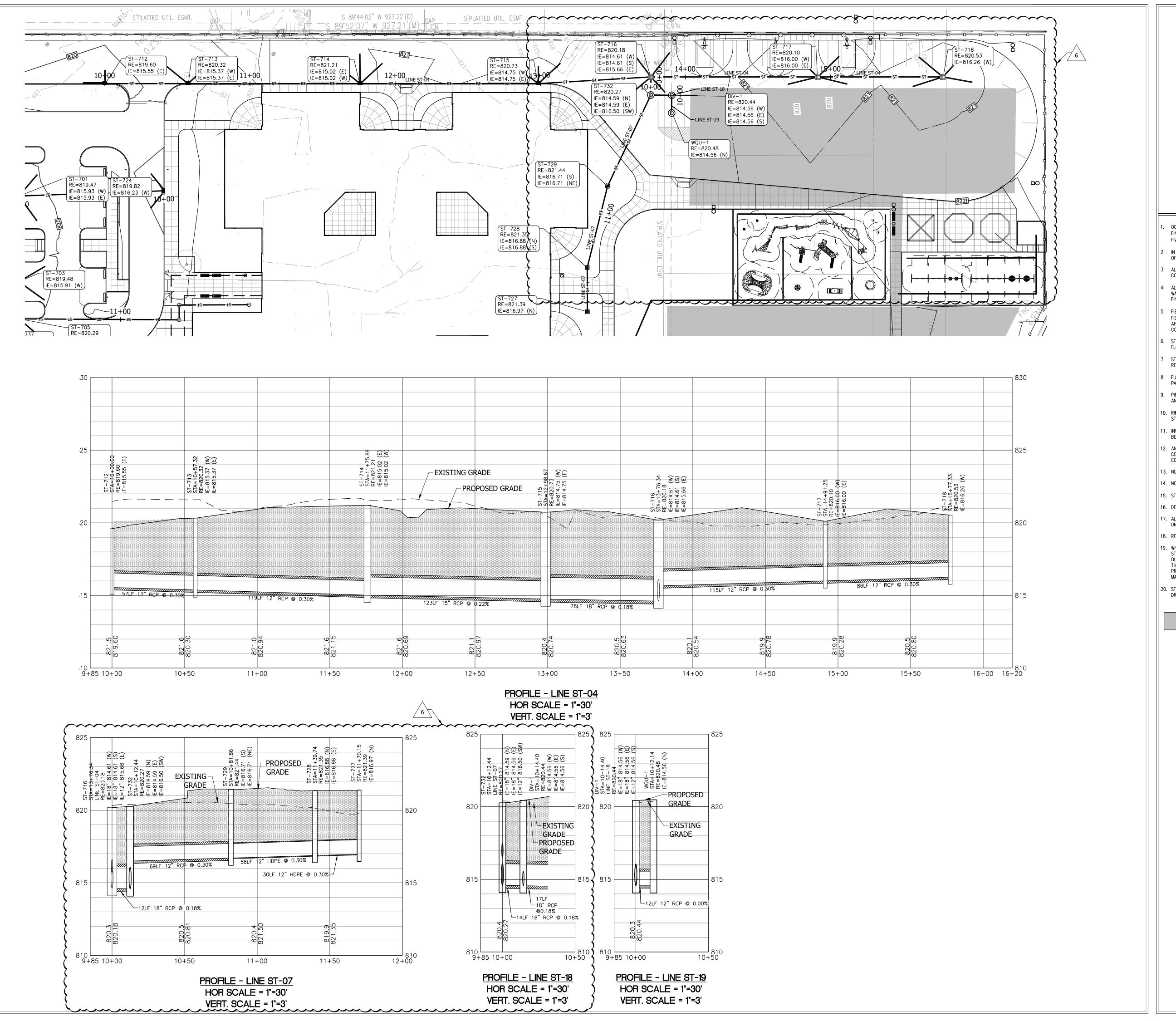
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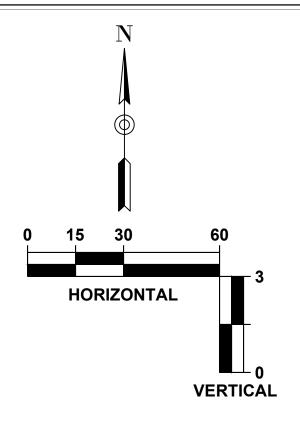
DRAWING TITLE:

STORM SEWER **PLAN AND PROFILES**

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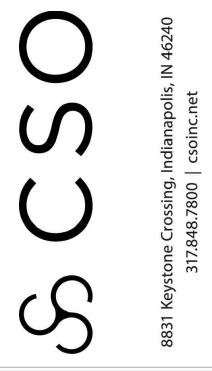




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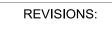




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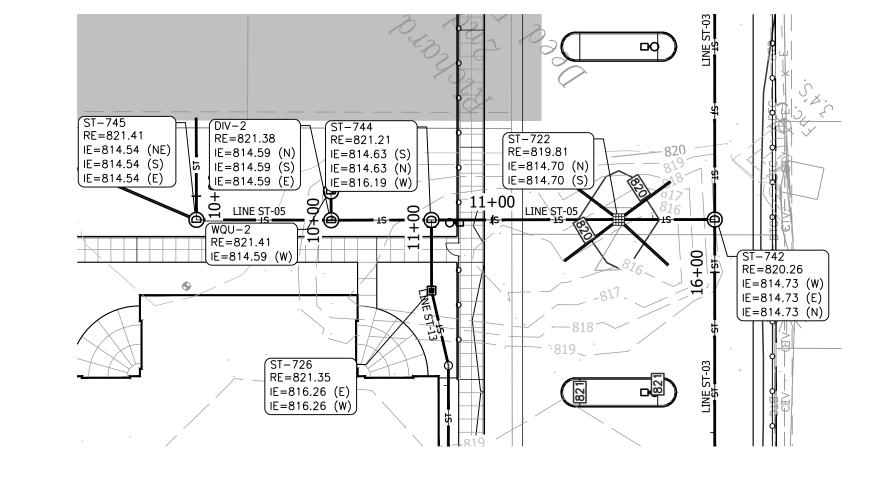
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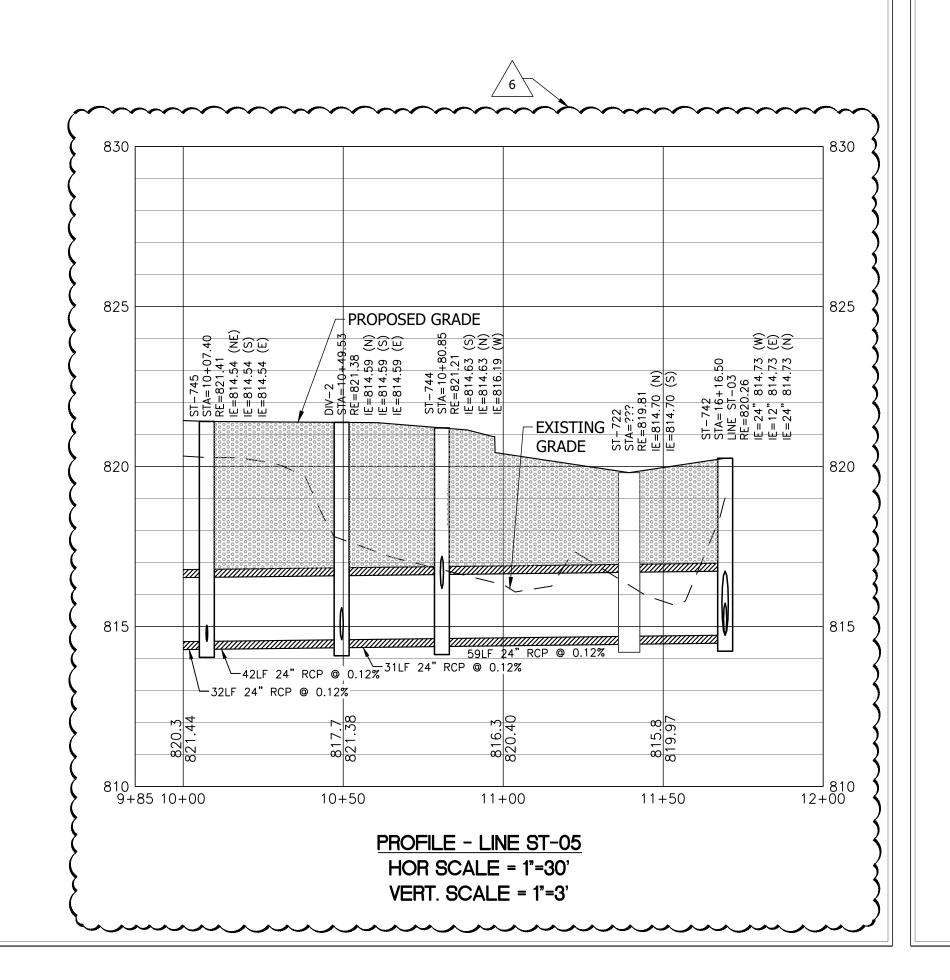


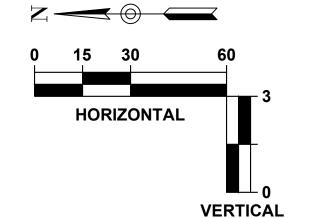
DRAWING NUMBER

	STORM STRUC	TURE DATA T	ABLE	
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	INVERT (DIRECTION)	PIPE SLOPE
DIV-1	TYPE H MH DIVERSION STRUCTURE WEIR WALL TOP = 815.20	RIM = 820.46	INV. 18" IN = 814.56 (W) INV. 18" OUT = 814.56 (E) INV. 12" OUT = 814.56 (S)	0.18% 0.18% 0.00%
DIV-2	TYPE H MH DIVERSION STRUCTURE WEIR WALL TOP = 815.70	RIM = 821.38	INV. 24" IN = 814.59 (S) INV. 24" OUT = 814.59 (N) INV. 12" OUT = 814.59 (E)	0.12% 0.12% 0.00%
ST-701	TYPE A INLET	RIM = 819.47	INV. 12" IN = 815.93 (E) INV. 12" OUT = 815.93 (W)	0.30% 0.30%
ST-702	TYPE A INLET	RIM = 819.36	INV. 12" OUT = 816.02 (E)	0.30%
ST-703	INLET TYPE A	RIM = 819.48	INV. 12" OUT = 815.91 (W)	0.30%
ST-704	TYPE A INLET	RIM = 819.32	INV. 12" OUT = 815.80 (E)	0.30%
ST-705	CURB INLET TYPE A	RIM = 820.29	INV. 8" IN = 816.92 (E) INV. 12" OUT = 815.87 (W)	0.40% 0.30%
ST-706	TYPE A INLET	RIM = 819.48	INV. 12" OUT = 815.68 (E)	0.30%
ST-707	72" DIA ST MH W/ INLET GRATE	RIM = 819.67	INV. 24" IN = 815.48 (E) INV. 24" OUT = 815.48 (W)	0.12% 0.12%
ST-708	TYPE A INLET	RIM = 819.42	INV. 12" OUT = 815.53 (E)	0.30%
ST-709	TYPE H MH W/ CURB INLET FRAME & GRATE	RIM = 819.52	INV. 12" IN = 815.34 (W) INV. 24" IN = 815.34 (N) INV. 24" OUT = 815.34 (E)	0.30% 0.12% 0.12%
ST-709 A	CURB INLET TYPE A	RIM = 819.13	INV. 12" OUT = 815.66 (S)	0.30%
ST-709B	CURB INLET TYPE A	RIM = 818.89	INV. 12" IN = 815.59 (N) INV. 12" OUT = 815.59 (E)	0.30% 0.30%
ST-710	TYPE H MH W/ CURB INLET FRAME & GRATE	RIM = 819.60	INV. 24" IN = 815.19 (W) INV. 24" OUT = 815.19 (E)	0.12% 0.12%
ST-711	CURB INLET TYPE A	RIM = 819.60	INV. 12" OUT = 816.17 (S)	0.30%
ST-712	CURB INLET TYPE A	RIM = 819.60	INV. 12" OUT = 815.55 (E)	0.30%
ST-713	CURB INLET TYPE A	RIM = 820.32	INV. 12" IN = 815.37 (W) INV. 12" OUT = 815.37 (E)	0.30% 0.30%
ST-714	CURB INLET TYPE F	RIM = 821.21	INV. 12" IN = 815.02 (W) INV. 15" OUT = 815.02 (E)	0.30% 0.22%
ST-715	CURB INLET TYPE F	RIM = 820.73	INV. 15" IN = 814.75 (W) INV. 18" OUT = 814.75 (E)	0.22% 0.18%
ST-716	INLET TYPE M	RIM = 820.18	INV. 18" IN = 814.61 (W) INV. 12" IN = 815.66 (E) INV. 18" OUT = 814.61 (S)	0.18% 0.30% 0.18%
ST-717	TYPE A INLET	RIM = 820.10	INV. 12" IN = 816.00 (E) INV. 12" OUT = 816.00 (W)	0.30% 0.30%
ST-718	TYPE A INLET	RIM = 820.53	INV. 12" OUT = 816.26 (W)	0.30%
ST-719	TYPE H MH W/ CURB INLET CASTING	RIM = 819.94	INV. 24" IN = 815.01 (W) INV. 15" IN = 815.01 (NW) INV. 24" OUT = 815.01 (E)	0.12% 0.22% 0.12%
ST-720	TYPE A INLET	RIM = 821.69	INV. 12" IN = 817.89 (SW) INV. 12" OUT = 816.10 (SE)	0.30% 0.30%
ST-721	INLET TYPE M	RIM = 819.81	INV. 12" IN = 815.80 (NW) INV. 24" OUT = 814.90 (S)	0.30% 0.12%
ST-722	INLET TYPE M W/ INLET GRATE	RIM = 819.81	INV. 24" IN = 814.70 (S) INV. 24" OUT = 814.70 (N)	0.12% 0.12%
ST-723	TYPE A INLET	RIM = 819.81	INV. 12" OUT = 815.14 (S)	0.30%
ST-724	CURB INLET TYPE A	RIM = 820.35	INV. 12" OUT = 816.23 (W)	0.30%
ST-725	TYPE A INLET	RIM = 821.86	INV. 12" OUT = 818.00 (NE)	0.30%
ST-726	TYPE A INLET	RIM = 821.35	INV. 12" IN = 816.26 (W) INV. 12" OUT = 816.26 (E)	0.30% 0.30%
ST-727	TYPE A INLET	RIM = 821.39	INV. 12" OUT = 816.97 (N)	0.30%
ST-728	TYPE A INLET	RIM = 821.35	INV. 12" IN = 816.88 (S) INV. 12" OUT = 816.88 (N)	0.30% 0.30%
ST-729	TYPE A INLET	RIM = 821.44	INV. 12" IN = 816.71 (S) INV. 12" OUT = 816.71 (NE)	0.30% 0.30%
ST-730	TYPE A INLET W/ SOLID CASTING	RIM = 821.65	INV. 12" IN = 815.14 (W) INV. 15" OUT = 815.14 (SE)	0.30% 0.22%
ST-731	TYPE A INLET W/ SOLID CASTING	RIM = 821.63	INV. 12" OUT = 815.23 (E)	0.30%

STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	INVERT (DIRECTION)	PIPE SLOPE
ST-732	TYPE H MH	RIM = 820.27	INV. 18" IN = 814.59 (N) INV. 12" IN = 816.50 (SW) INV. 18" OUT = 814.59 (E)	0.18% 0.30% 0.18%
ST-733	TYPE C MH	RIM = 820.15	INV. 12" IN = 815.84 (E) INV. 15" OUT = 815.84 (S)	0.30% 0.22%
ST-734	TYPE C MH	RIM = 820.12	INV. 12" IN = 815.93 (W) INV. 12" IN = 815.93 (N) INV. 12" OUT = 815.93 (S)	0.30% 0.30% 0.30%
ST-735	TYPE H MH	RIM = 820.09	INV. 15" IN = 815.71 (N) INV. 12" IN = 815.82 (E) INV. 18" OUT = 815.71 (S)	0.22% 0.30% 0.18%
ST-736	TYPE C MH	RIM = 820.04	INV. 12" IN = 815.71 (N) INV. 12" IN = 815.71 (W) INV. 15" OUT = 815.71 (S)	0.30% 0.30% 0.22%
ST-737	TYPE H MH	RIM = 820.18	INV. 18" IN = 815.66 (N) INV. 12" IN = 815.78 (E) INV. 24" OUT = 815.66 (S)	0.18% 0.30% 0.12%
ST-738	TYPE C MH	RIM = 820.13	INV. 15" IN = 815.59 (N) INV. 12" IN = 815.59 (W) INV. 18" OUT = 815.59 (S)	0.22% 0.30% 0.18%
ST-739	TYPE H MH	RIM = 820.43	INV. 24" IN = 815.51 (N) INV. 6" IN = 815.51 (E) INV. 24" OUT = 815.51 (W)	0.12% 1.00% 0.12%
ST-740	TYPE H MH	RIM = 819.79	INV. 12" IN = 815.44 (W) INV. 24" IN = 815.44 (E) INV. 18" IN = 815.44 (N) INV. 24" OUT = 815.44 (S)	0.30% 0.12% 0.18% 0.12%
ST-741	TYPE H MH	RIM = 820.26	INV. 24" IN = 814.86 (N) INV. 24" IN = 814.86 (W) INV. 24" OUT = 814.86 (E)	0.12% 0.12% 0.12%
ST-742	TYPE H MH	RIM = 820.26	INV. 24" IN = 814.73 (W) INV. 12" IN = 814.73 (E) INV. 24" OUT = 814.73 (N)	0.12% 0.30% 0.12%
ST-743	TYPE H MH	RIM = 820.26	INV. 12" IN = 815.05 (N) INV. 12" OUT = 815.05 (W)	0.30% 0.30%
ST-744	TYPE H MH	RIM = 821.21	INV. 24" IN = 814.63 (S) INV. 12" IN = 816.19 (W) INV. 24" OUT = 814.63 (N)	0.12% 0.30% 0.12%
ST-745	TYPE H MH	RIM = 821.41	INV. 6" IN = 814.54 (NE) INV. 24" IN = 814.54 (S) INV. 24" OUT = 814.54 (E)	1.00% 0.12% 0.12%
ST-746	TYPE C MH	RIM = 820.42	INV. 15" OUT = 814.53 (S)	1.75%
ST-747	TYPE H MH DOGHOUSE OVER EX STORM OUTFALL	RIM = 820.43	INV. 15" IN = 814.41 (N) INV. 15" OUT = 814.41 (E)	1.75% 0.18%
ST CO-01	BLDG. C.O. BY OTHERS	RIM = 821.24	INV. 12" OUT = 816.50 (E)	0.30%
ST CO-02	STORM C.O.	RIM = 821.40	INV. 12" IN = 816.43 (W) INV. 12" OUT = 816.43 (E)	0.30% 0.30%
ST CO-03	STORM C.O.	RIM = 821.49	INV. 12" IN = 816.33 (W) INV. 12" OUT = 816.33 (E)	0.30% 0.30%
ST CO-04	ST CO	RIM = 821.58	INV. 8" IN = 817.37 (N) INV. 8" OUT = 817.37 (W)	0.40% 0.40%
ST CO-05	ST CO	RIM = 821.12	INV. 8" IN = 817.41 (E) INV. 8" OUT = 817.41 (S)	0.40% 0.40%
ST CO-06	ST CO	RIM = 821.64	INV. 8" OUT = 817.60 (W)	0.40%
WQU-1	WATER QUALITY UNIT AQUA-SWIRL X-5	RIM = 820.52	INV. 12" IN = 814.56 (N)	0.00%
WQU-2	WATER QUALITY UNIT AQUA-SWIRL XC-7	RIM = 821.41	INV. 12" IN = 814.59 (W)	0.00%



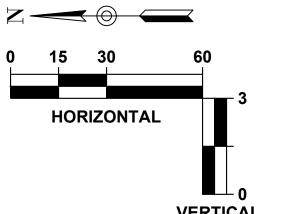




- FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- 2. IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN
- ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE
- ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH
- 5. FIELD ADJUSTMENTS OF TOP OF CURB (TC) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE, AT NO
- STORM STRUCTURES WITH INLET CASTINGS SHALL BE SET TO MAINTAIN A POSITIVE DRAINAGE FLOW INTO THE STRUCTURE.
- STORM PIPE INVERTS AT OUTLET STRUCTURES (IE: END SECTIONS), AND PIPE LENGTHS MAY
- 9. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE
- AND INCLUDE END SECTIONS.
- 10. RIM ELEVATIONS (RE) SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A
- 11. INVERT ELEVATION OF SUB-SURFACE DRAIN (SSD) AT STRUCTURE TO BE THREE (3) FEET
- 12. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO
- 13. NO BLASTING SHALL BE PERFORMED ON THIS SITE.
- 14. NO SEISMIC VIBRATING OPERATIONS WILL OCCUR ON THIS SITE.

- 19. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEMS.
- 20. STRUCTURES RECEIVING SUB-SURFACE DRAIN (SSD) SHALL HAVE BOTH PORTS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.

STORM-BRIXX UNDERGROUND DETENTION

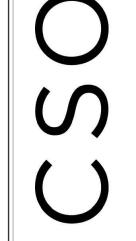


STORM SEWER PLAN AND PROFILE GENERAL NOTES

- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS;
- OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.
- CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.
- COST TO THE OWNER.
- REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
- 8. FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS.

- STRUCTURE.
- BELOW RIM ELEVATION.
- CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.

- 15. STRUCTURES DEEPER THAN 4' MUST BE ACCESSIBLE WITH STEPS.
- 16. DEBRIS GUARD TO BE INSTALLED ON ALL OPEN ENDED INLETS.
- 17. ALL STORM SEWER, INCLUDING SSD, SHALL BE CLEANED AND TELEVISED AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED.
- 18. REFER TO FISHERS STORM DETAILS FOR CASTING INFORMATION.
- OUTLINED THE TOWN OF FISHERS STORMWATER SPECIFICATIONS MANUAL, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCH WALLS, AS WELL AS





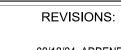


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DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

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

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

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the



02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY

01/15/2023

DRAWING TITLE: STORM SEWER PLAN AND

PROFILES

CERTIFIED BY:



DRAWING NUMBER

GENERAL NOTES

- 1. IT IS CUSTOMERS RESPONSIBILITY TO ENSURE THAT EACH PRODUCT IS FIT FOR ITS INTENDED PURPOSE AND THAT THE ACTUAL
- 2. IT IS THE CUSTOMERS RESPONSIBILITY TO FOLLOW ACO, INC. INSTALLATION INSTRUCTIONS FOR EACH PRODUCT. SEEK ENGINEERING ADVICE FOR INSTALLATIONS NOT ILLUSTRATED IN THE INSTALLATION GUIDELINES.
- 3. FOR FURTHER PRODUCT INFORMATION, CUT SHEETS, SPECIFICATIONS AND INSTALLATION INSTRUCTIONS, PLEASE VISIT US AT OUR WEBSITE: ACOSTORMBRIXX.US

STORMBRIXX NOTES

- 1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR. HE/SHE TO VERIFY THE ENTIRE SCOPE OF STORMBRIXX HD HAS BEEN PROVIDED FOR THIS PROJECT.
- 2. DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE.
- 3. LAYOUT IS BASED ON CAD PLANS PROVIDED TO THE ACO, INC. TECHNICAL SERVICES DEPARTMENT.
- 4. THIS PLAN VIEW REPRESENT ONE OF TWO STORMBRIXX HD HALF LAYER ORIENTATIONS REQUIRED FOR THIS TANK. FOR COMPLETE, BRICK -BONDABLE INSTALLATION DRAWINGS, PLEASE REQUEST THIS SERVICE FROM THE ACO, INC. SALES DEPARTMENT.
- 5. THE NUMBER OF ACCESS/INSPECTION LOCATIONS DISPLAYED ARE RECOMMENDATIONS, AND MORE/LESS CAN BE ADDED WITH EASE VIA
- 6. ACCESS UNITS OCCUPY A PROFILE EQUIVALENT TO HALF OF ON HALF MODULE AND ALLOW FOR DIRECT ACCESS TO UP 18" PIPE CONNECTIONS.
- 7. ACCESS PLATES OCCUPY THE EQUIVALENT PROFILE OF HALF OF ONE HALF MODULE AND MUST BE SURROUNDED BY BRICK BONDED MODULES. ACCESS PLATES CAN BE PLACED ANYWHERE BESIDES THE EDGE OF THE SYSTEM.
- 8. HOLDING CAPACITY OF ONE FULLY ASSEMBLED STORMBRIXX HD MODULE = 14.73 CF

INSTALLATION NOTES

- 1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR.
- 2. EXCAVATE AWAY FROM TANK'S PROFILE PER OSHA STANDARDS.
- 3. UP TO 15" PIPE CONNECTIONS CAN BE CORED DIRECTLY
- 4. USE LAYER CONNECTORS TO RESTRICT SHEARING MOVEMENT BETWEEN BRICK-BONDED LAYERS/HALF

INTO STORMBRIXX HD SIDE PANELS.

- 5. USE LAYER CONNECTORS TO ADHERE ACCESS UNITS TO
- BRICK-BONDED HALF MODULES.
- 6. A VOID AREA EQUIVALENT TO HALF OF ONE HALF MODULE IS PRESENT UNDER EACH ACCESS PLATE.

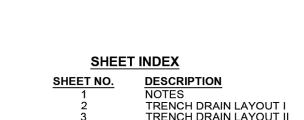
	IE INFORMATION WITHIN. PLEASE REVIEW TH FOR ACCURACY.	iis 1
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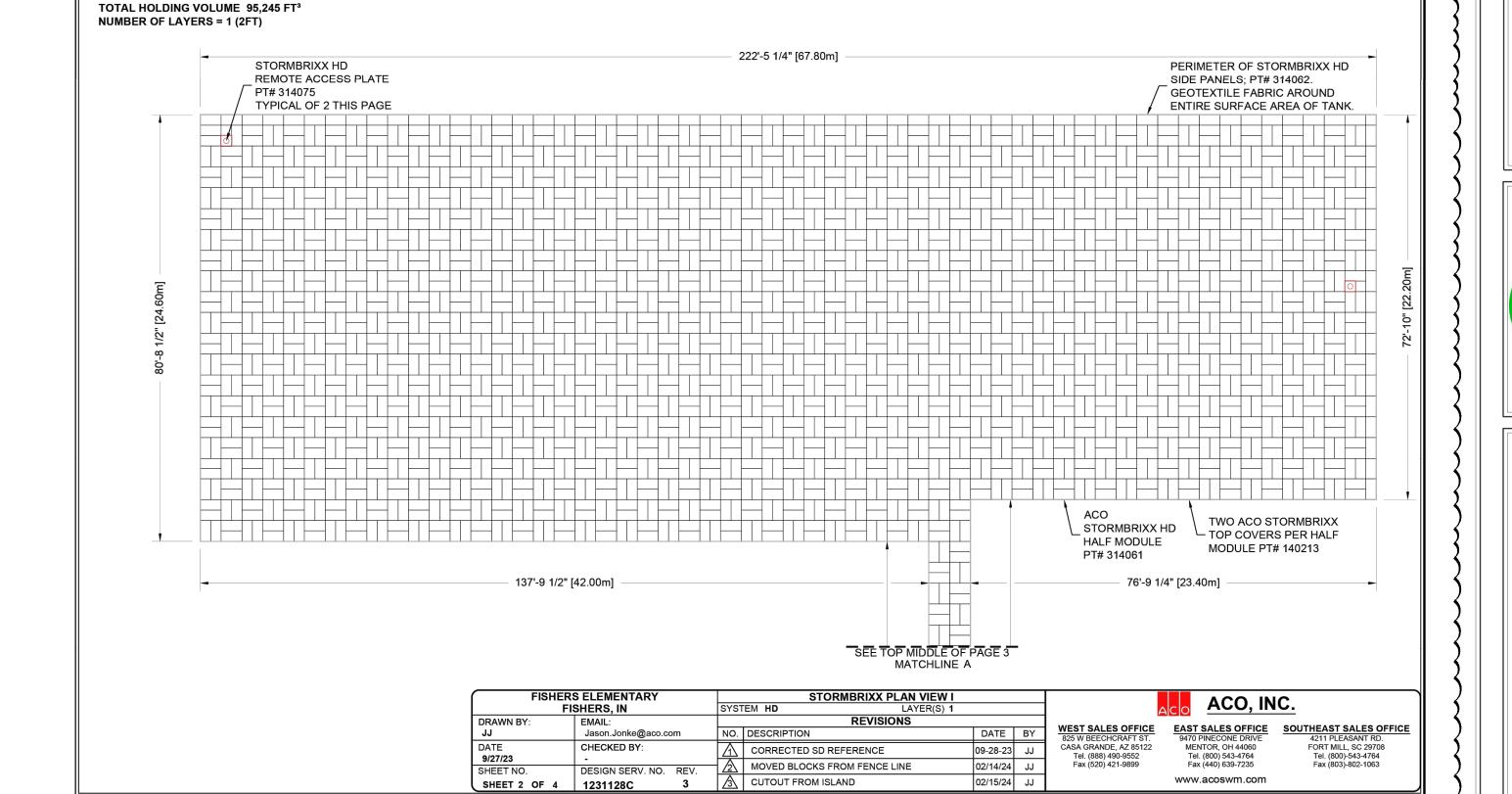
ACO STORMBRIXX HD TANK

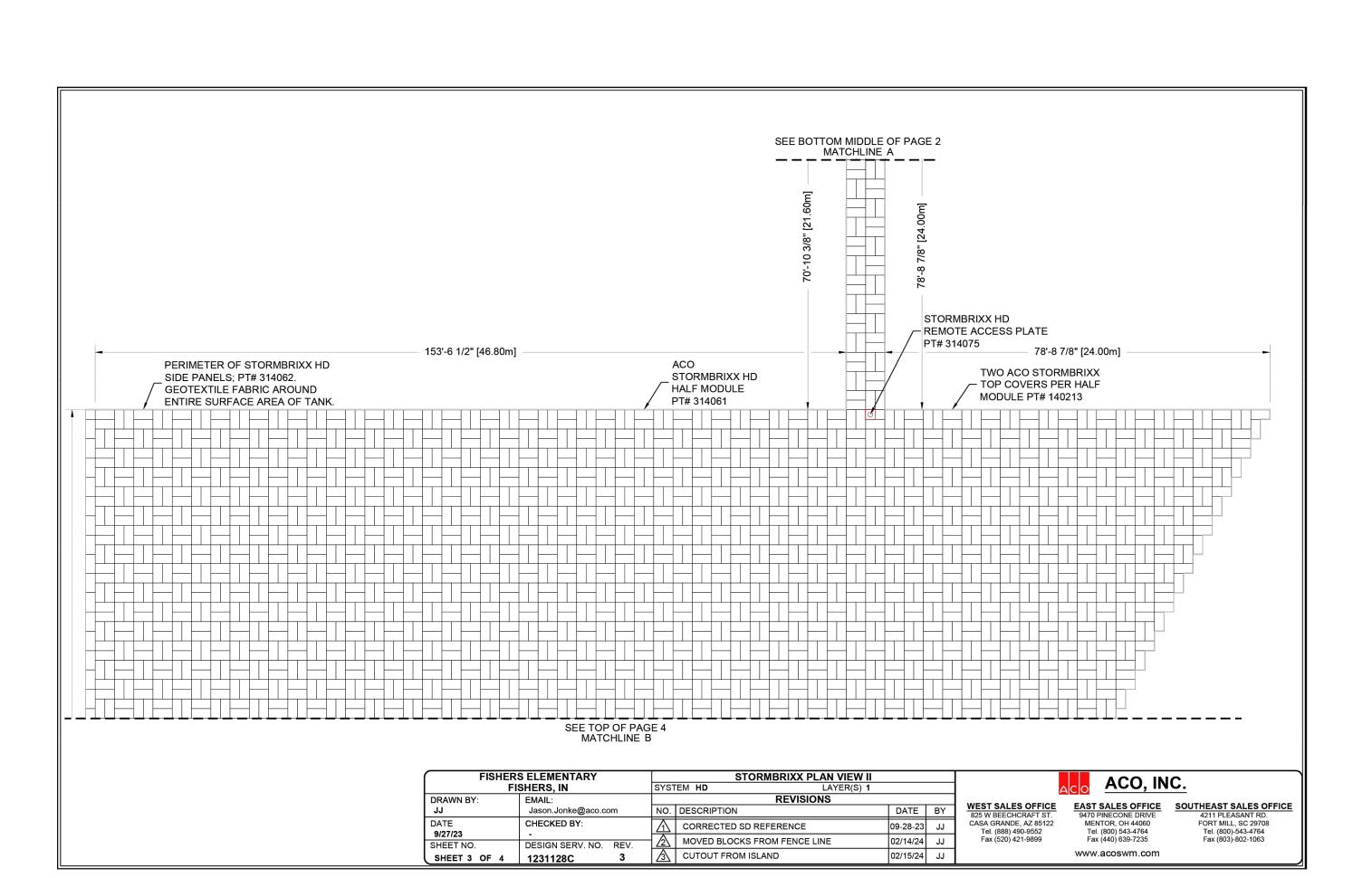
TANK STRUCTURAL VOLUME 100,258 FT³

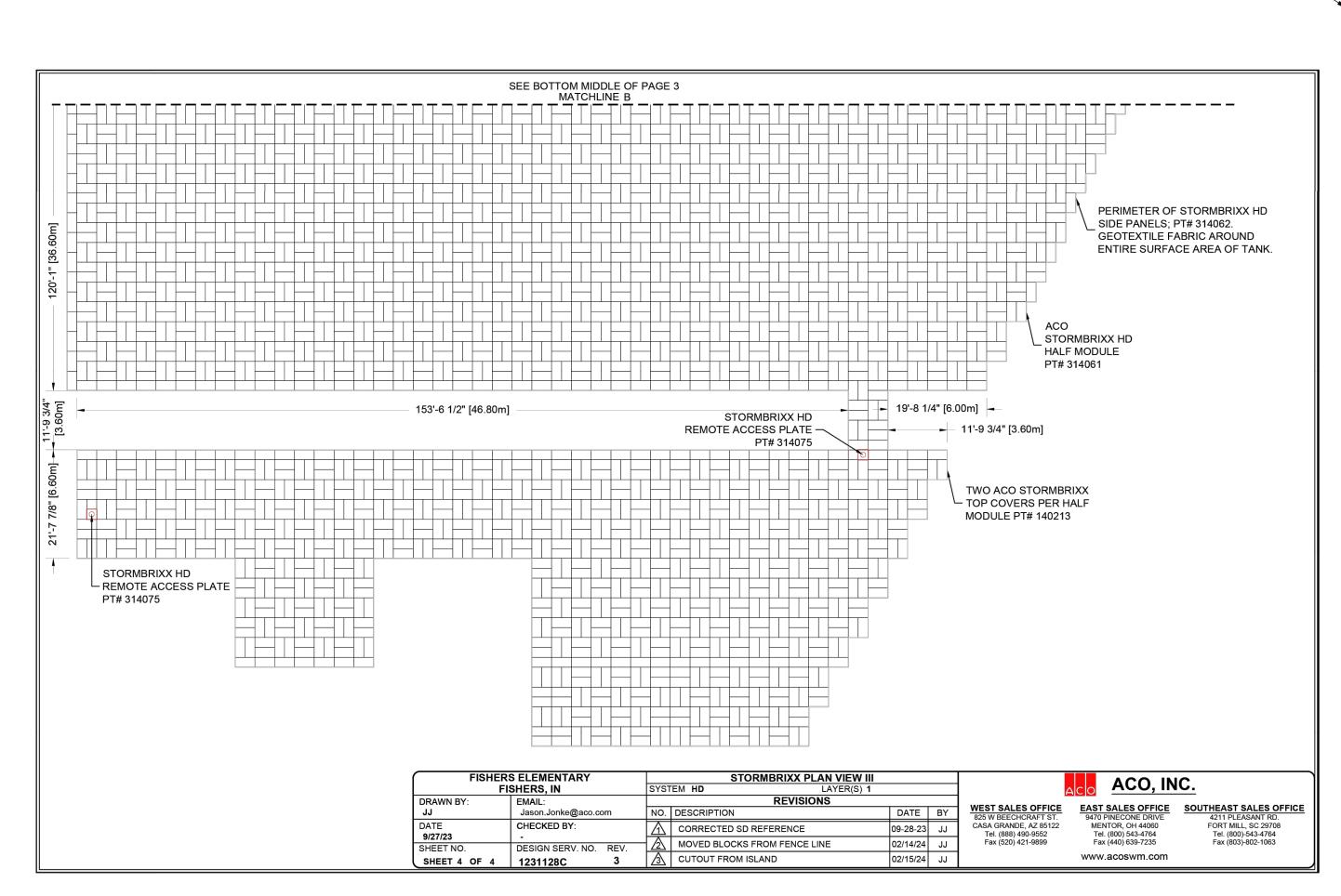


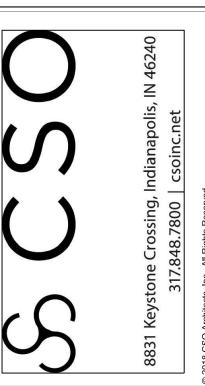
TRENCH DRAIN LAYOUT II

		S ELEMENTARY SHERS, IN	SYST	NOTES TEM HD LAYER(S) 1			A	ACO, IN	<u>C.</u>
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L	JJ	Jason.Jonke@aco.com	NO.	DESCRIPTION	DATE	BY	WEST SALES OFFICE 825 W BEECHCRAFT ST.	9470 PINECONE DRIVE	SOUTHEAST SALES OFFICE 4211 PLEASANT RD.
	DATE 9/27/23	CHECKED BY:	Λ	CORRECTED SD REFERENCE	09-28-23	JJ	CASA GRANDE, AZ 85122 Tel. (888) 490-9552	MENTOR, OH 44060 Tel. (800) 543-4764	FORT MILL, SC 29708 Tel. (800)-543-4764
	SHEET NO.	DESIGN SERV. NO. REV.		MOVED BLOCKS FROM FENCE LINE	02/14/24	JJ	Fax (520) 421-9899	Fax (440) 639-7235	Fax (803)-802-1063
	SHEET 1 OF 4	1231128C 3	3	CUTOUT FROM ISLAND	02/15/24	JJ		www.acoswm.com	





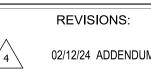




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ADDITIONS {

SCOPE DRAWINGS: These drawings indicate the general scope of the projecterms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe al work required for full performance and completion of the On the basis of the general scope indicated or describ

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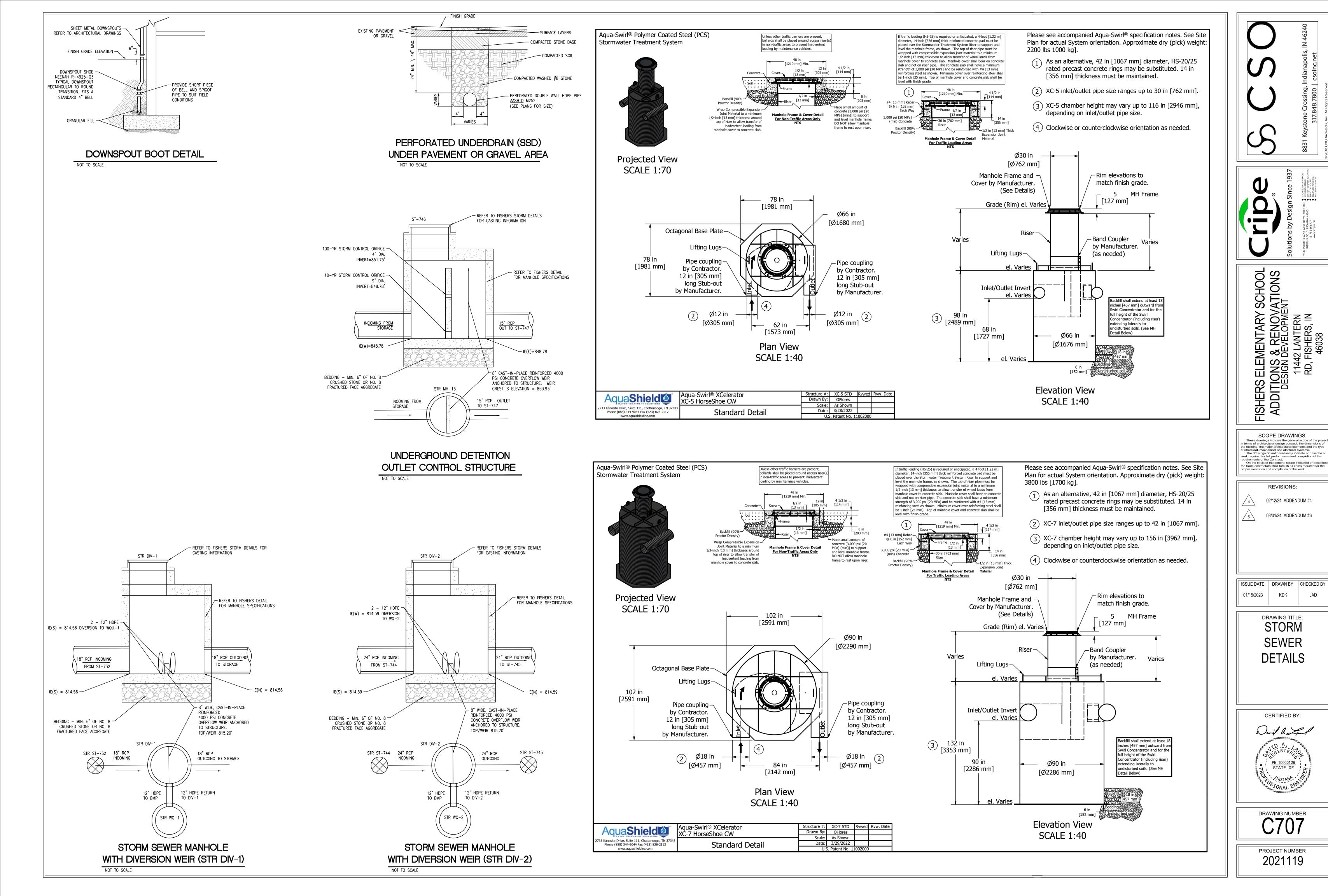
02/12/24 ADDENDUM #4 03/01/24 ADDENDUM #6

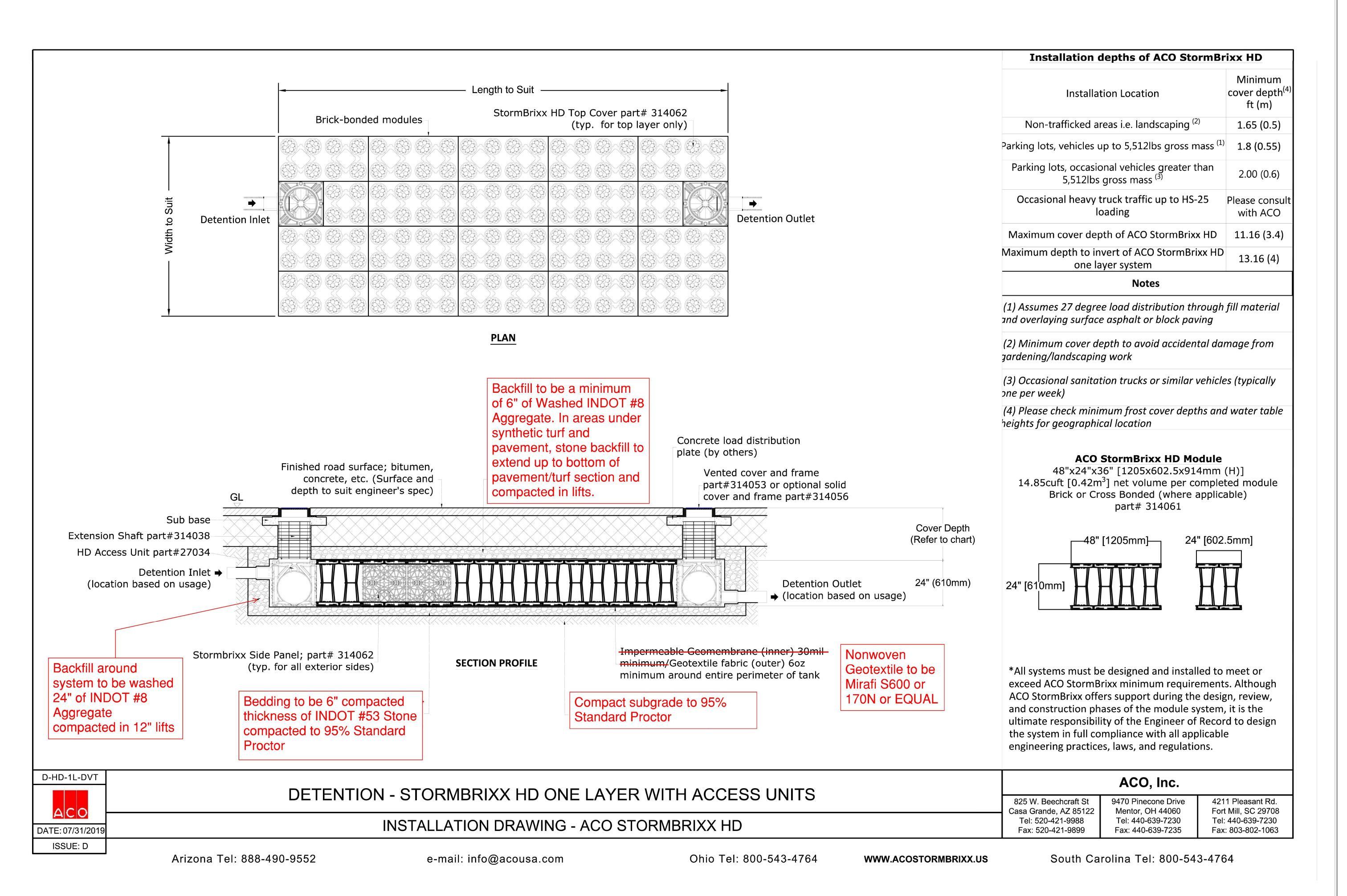
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> **DRAWING TITLE: STORM SEWER DETAILS**

CERTIFIED BY

DRAWING NUMBER







REVISIONS: 02/12/24 ADDENDUM #4

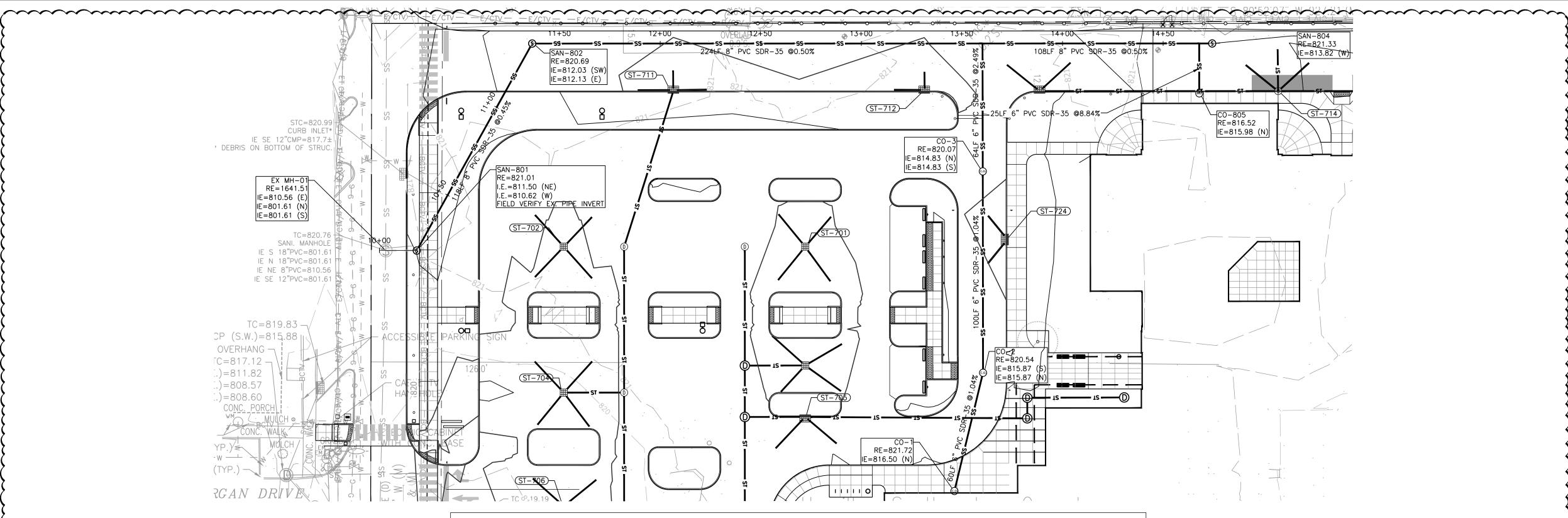
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DRAWING TITLE: STORM

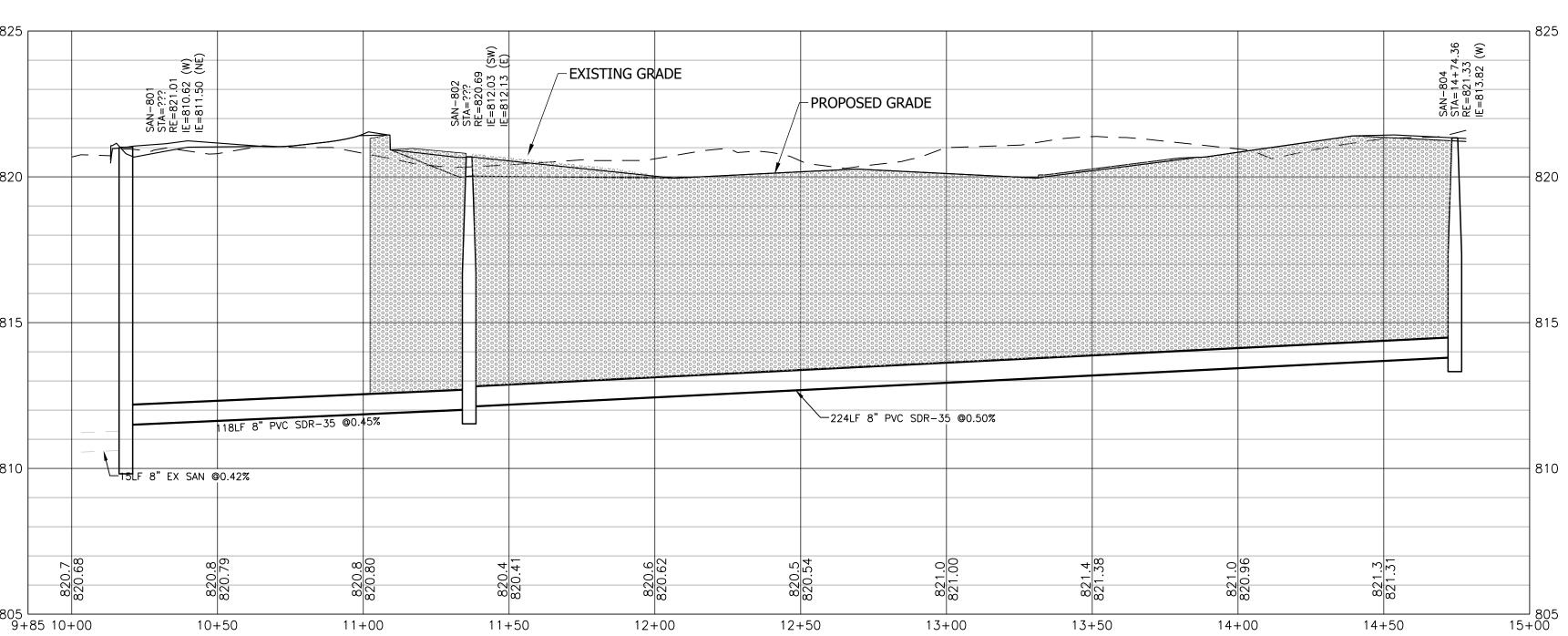
BRIXX INSTALLATION **DRAWING**

CERTIFIED BY: David a Land PE 10000126 }
STATE OF

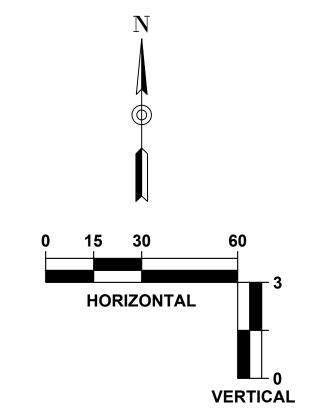
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	ST	ORM STRUCTU	JRE DATA TABLE			
STRUCTURE NUMBER	STRUCTURE TYPE	TOP OF CASTING	INVERT (DIRECTION)	PIPE LENGTH	PIPE SLOPE	CONNECT TO STRUCTURE
CO-2	SAN C.O.	RIM = 820.54	INV. 6" IN = 815.87 (S) INV. 6" OUT = 815.87 (N)	60' 100'	1.04% 1.04%	CO-1 CO-3
CO-3	SAN C.O.	RIM = 820.07	INV. 6" IN = 814.83 (S) INV. 6" OUT = 814.83 (N)	100' 64'	1.04% 2.49%	CO-2
CO-805	SAN C.O.	RIM = 816.52	INV. 6" OUT = 815.98 (N)	25'	8.84%	
EX MH-01	EX SAN MH	RIM = 1641.51	INV. 8" IN = 810.56 (E) INV. 18" OUT = 801.61 (N) INV. 18" OUT = 801.61 (S)	15' 38' 29'	0.42% -0.18% -0.18%	SAN-801
EXISTING GREASE TRAP	REMOVE & REPLACE EXIST GREASE INTERCEPTOR COORD WITH MEP DESIGNER FOR SIZE	RIM = 821.51				
SAN-801	48" DIA SAN MH	RIM = 821.01	INV. 8" IN = 811.50 (NE) INV. 8" OUT = 810.62 (W)	118' 15'	0.45% 0.42%	SAN-802 EX MH-01
SAN-802	48" DIA SAN MH	RIM = 820.69	INV. 8" IN = 812.13 (E) INV. 8" OUT = 812.03 (SW)	224' 118'	0.50% 0.45%	SAN-801
SAN-804	48" DIA SAN MH	RIM = 821.33	INV. 8" OUT = 813.82 (W)	6'	0.50%	



PROFILE - LINE SAN-01 HOR SCALE = 1"=30" VERT. SCALE = 1"=3"



SANITARY SEWER PLAN AND PROFILE GENERAL NOTES

- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29 CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH.
- . IN ADDITION, EXCAVATIONS EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRE THE DESIGN
- . ALL STRUCTURES SHALL HAVE CASTINGS, JOINTS, LIFT RINGS, STEPS AND PIPE CONNECTIONS WELL GROUTED, TROWELED SMOOTH AND BRUSH FINISHED.

OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER.

- . ALL STRUCTURES (IE: MANHOLES, INLETS) SHALL HAVE POURED FLOW LINES AND BENCH WALLS. THE FLOW LINES AND BENCH WALLS SHALL BE TROWELED SMOOTH AND BRUSH
- . FIELD ADJUSTMENTS RIM ELEVATIONS (RE) OF STRUCTURES MAY BE REQUIRED TO MEET FIELD CONDITIONS. ADJUSTMENTS EXCEEDING FIVE TENTHS (0.5) OF A FOOT MUST BE
- COST TO THE OWNER. . PIPE LENGTHS MAY REQUIRE FIELD ADJUSTMENTS TO MEET ACTUAL FIELD CONDITIONS.
- FULL DEPTH GRANULAR BACKFILL SHALL BE REQUIRED UNDER AND WITHIN (5) FEET OF ALL PAVED AREAS, INCLUDING CURBS, EDGE OF PAVEMENT, AND SIDEWALKS. THIS IS

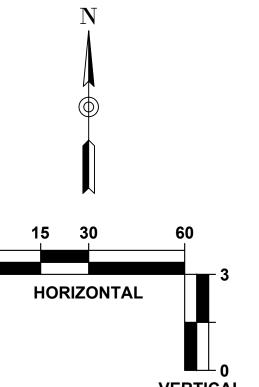
APPROVED BY THE ENGINEER TO DETERMINE THE INTEGRITY OF THE STRUCTURE. AT NO

- INDICATED BY THE HATCHING ON THE PROFILE. 8. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
- 10. CITY OF FISHERS IS THE LOCAL SANITARY UTILITY COMPANY. ADDRESS: 3 MUNICIPAL DRIVE, FISHERS, IN 46038. PHONE: 317-593-3140
- 11. MANHOLE OR CLEAN-OUT CASTINGS MAY NEED TO BE ELEVATED AFTER FINAL GRADING TO INSURE DRAINAGE AWAY FROM STRUCTURES.
- 12. PAVEMENT OR CONCRETE, INCLUDING DRIVEWAYS AND SIDEWALKS, MUST NOT BE CONSTRUCTED ON OR WITHIN ONE (1) FOOT HORIZONTAL DISTANCE OF SANITARY SEWER
- 13. ALL ROUGH GRADING (ON-SITE AND OFF-SITE) MUST BE FINISHED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO THE START OF CONSTRUCTION OF THE SANITARY SEWER
- 14. ALL LATERALS SHALL TERMINATE WITHIN A SANITARY EASEMENT.

CASTINGS.

INFRASTRUCTURE.

- 15. AT THE INSPECTOR'S DISCRETION, A CONCRETE CRADLE MAY BE REQUIRED FOR ALL
- LATERAL/UTILITY CROSSINGS. 16. CONTRACTOR MUST FIELD VERIFY INVERT ELEVATIONS OF EXISTING MANHOLES PRIOR TO CONSTRUCTION.
- SANITARY SEWER FACILITIES, INCLUDING MAINS AND LATERALS, MUST MAINTAIN FIVE FEET OF COVER FROM THE TOP OF PIPE TO GRADE. IF ADEQUATE COVER CAN NOT BE MAINTAINED, THEN CONCRETE CAPPING MUST BE INSTALLED WHEN COVER IS FOUR (4) TO FIVE (5) FEET AND CONCRETE ENCASEMENT MUST BE INSTALLED WHEN COVER IS THREE (3) TO FOUR (4) FEET. UNDER NO CIRCUMSTANCES WILL COVER BE PERMITTED TO BE LESS THAN THREE (3) FEET.
- 18. ALL BENCH WALLS SHALL EXTEND TO THE CROWN OF THE HIGHEST INFLUENT PIPE.
- 19. THE TEE WYES LOCATED ON THE SANITARY SEWER MAINLINE MUST BE DESIGNATED AND INSTALLED TO OBTAIN A 1:1 RATIO AWAY FROM STRUCTURES (DEPTH OF MANHOLE : DISTANCE OF TEE WYE FROM MANHOLE), DUE TO PROBLEMS ENCOUNTERED IN THE FIELD WITH THE TEE WYES FAILING WHEN LOCATED IN THE OVER DIG OF MANHOLES.





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ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
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SCOPE DRAWINGS: These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

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

REVISIONS:

On the basis of the general scope indicated or describe

02/12/24 ADDENDUM #4

proper execution and completion of the work

03/01/24 ADDENDUM #6

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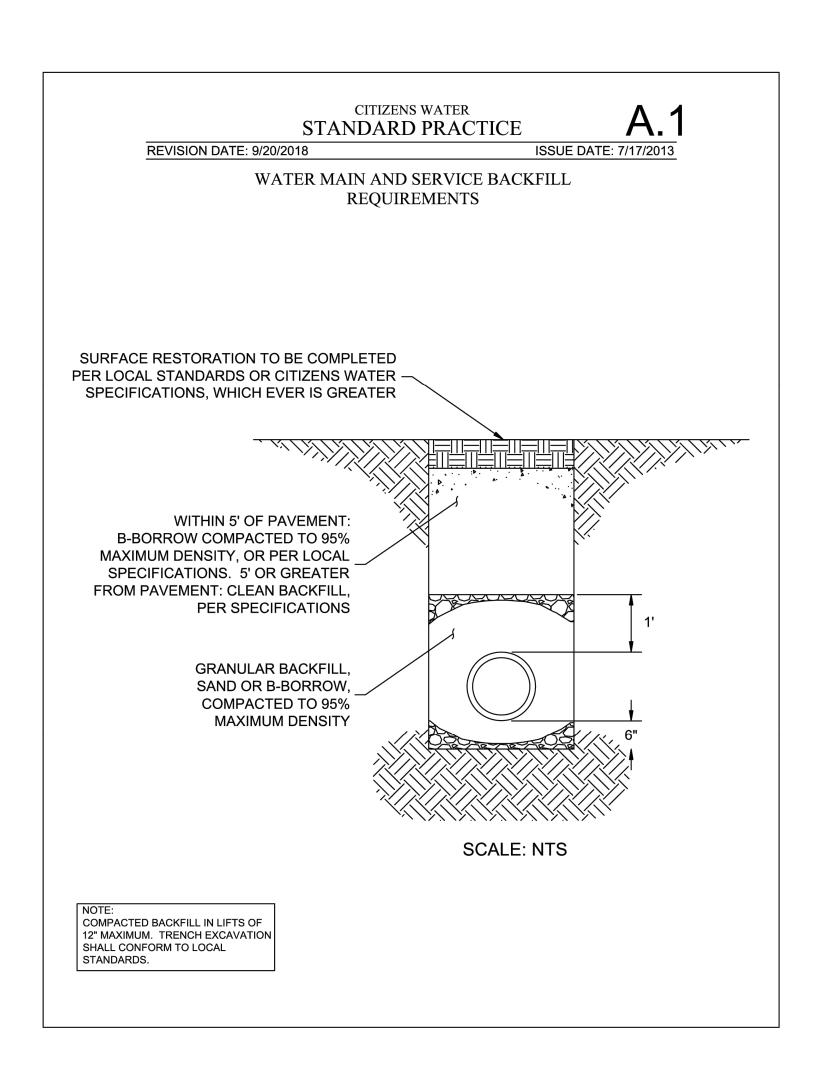
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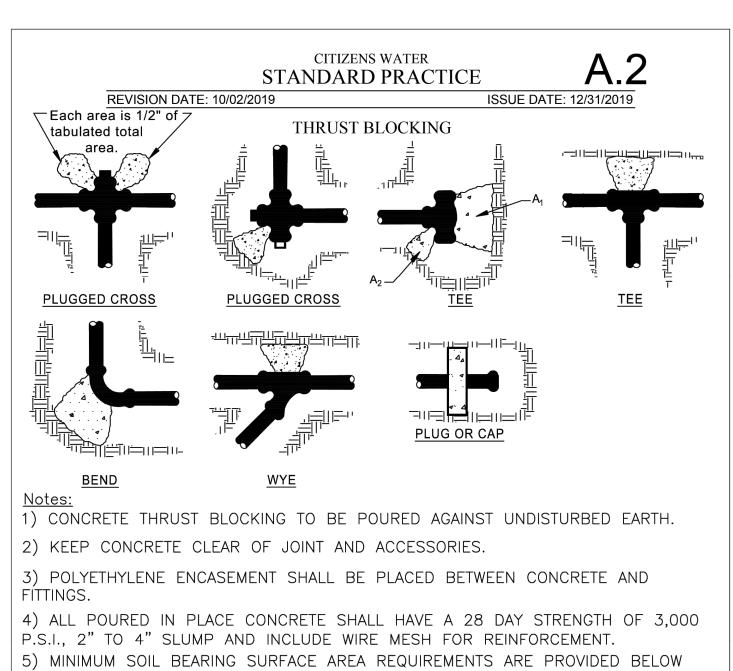
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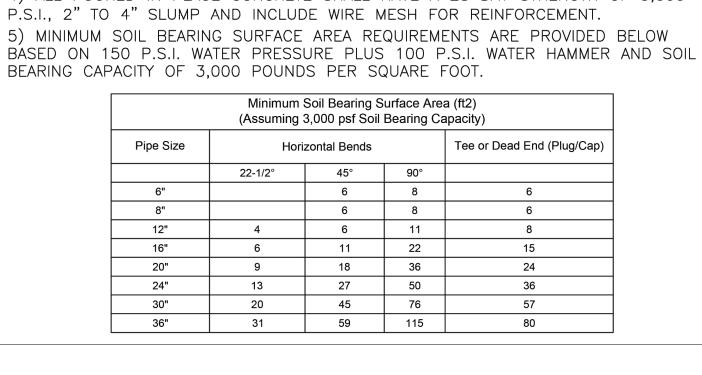
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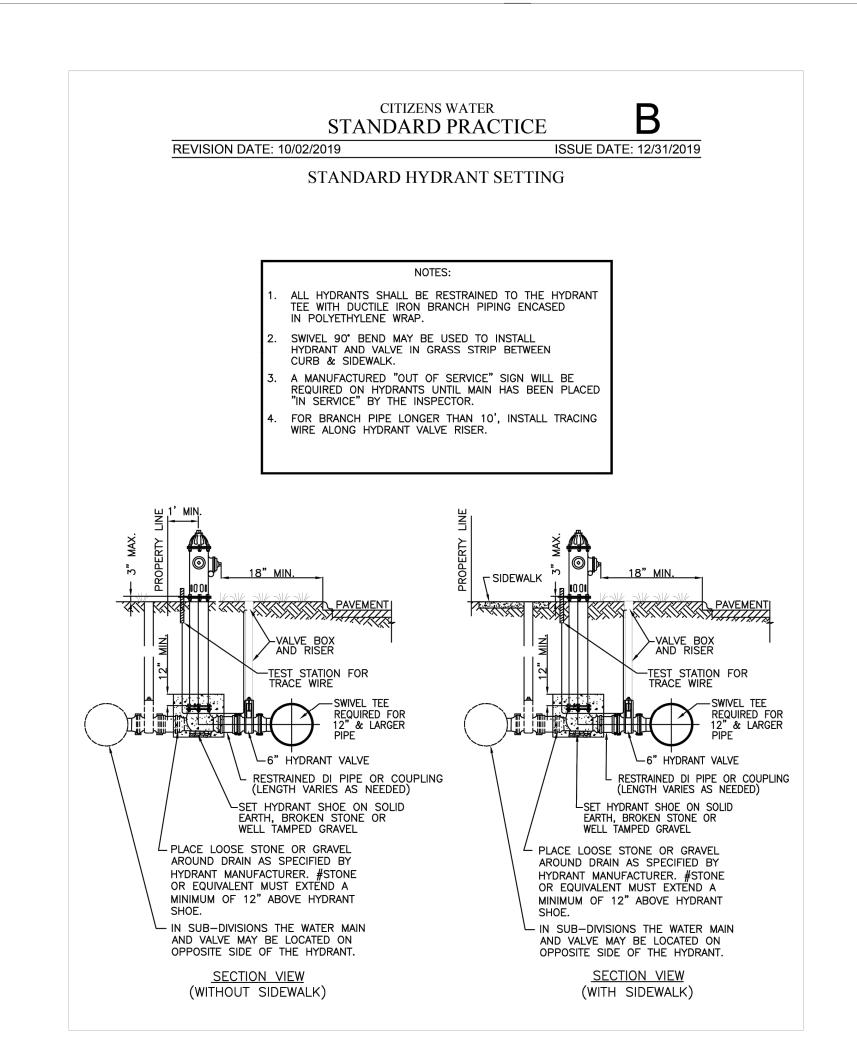


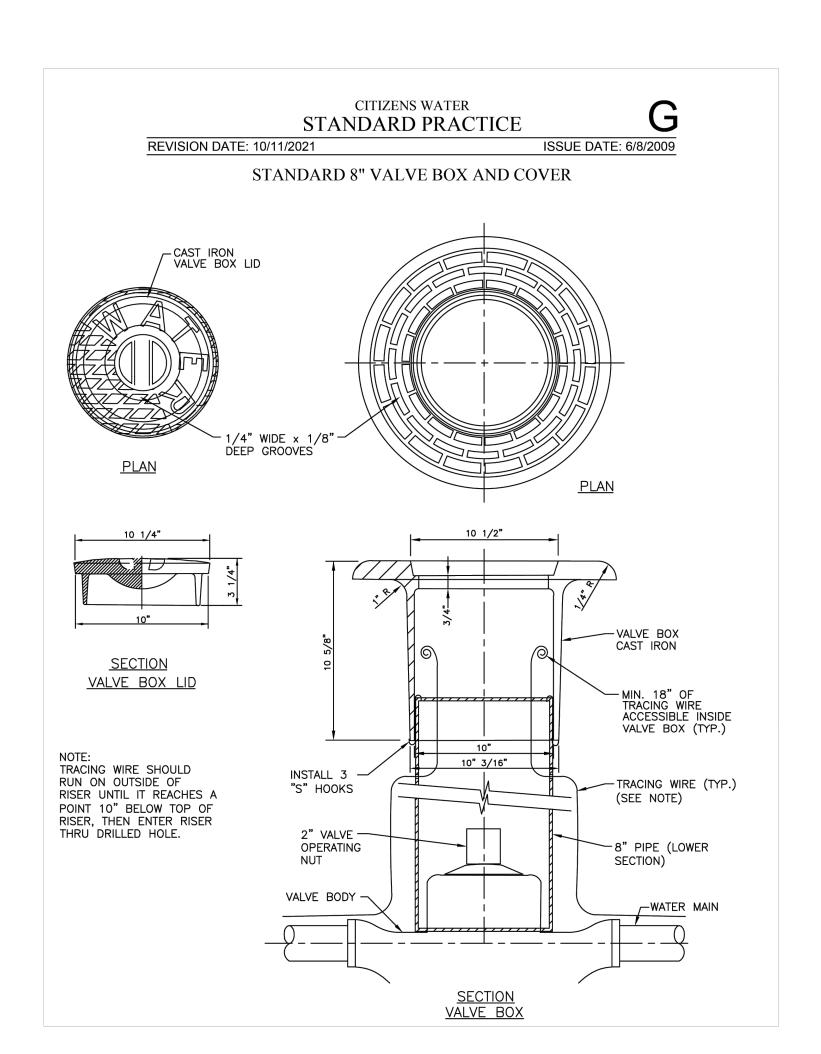
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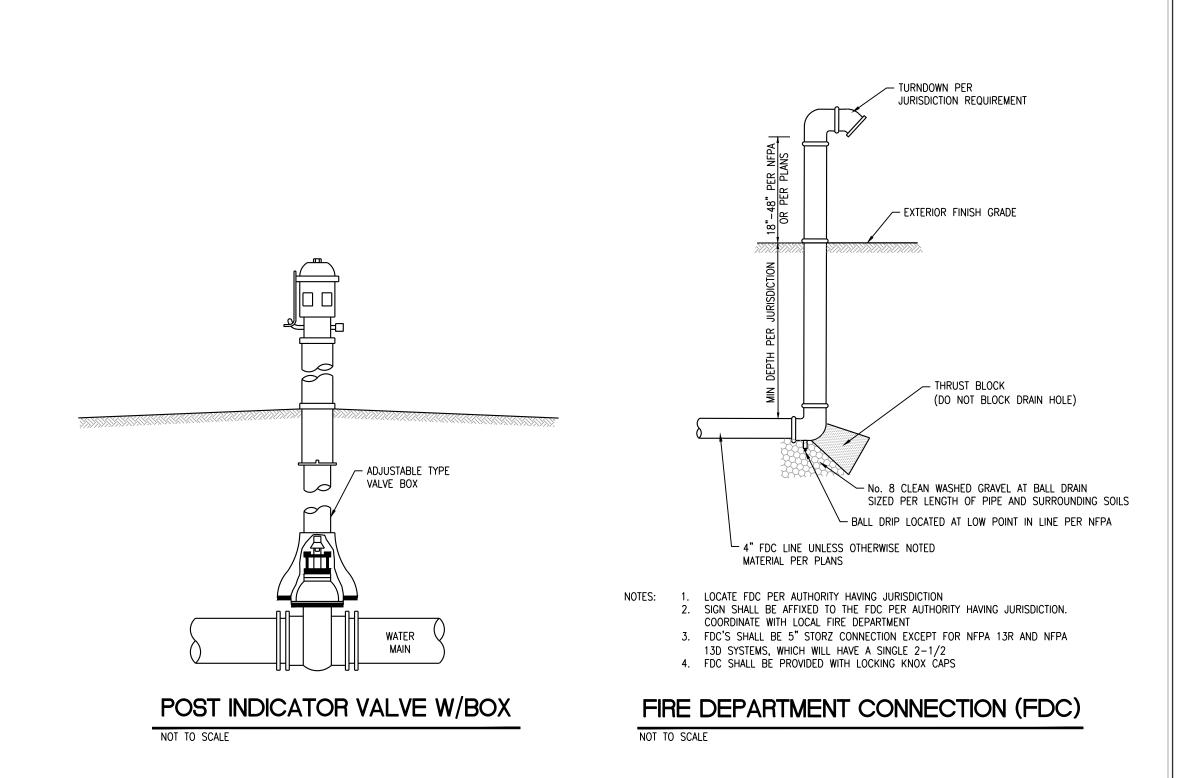


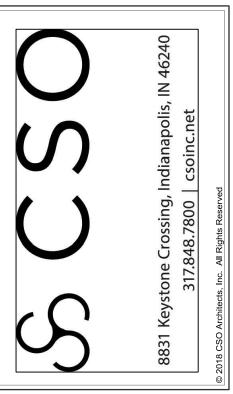












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On the basis of the general scope indicated or describe

> REVISIONS: 02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023 KDK

DRAWING TITLE:

WATER **DETAILS**

CERTIFIED BY: Dail a Land

DRAWING NUMBER



STANDARD CONSTRUCTION DETAILS

AMENDED JANUARY 2022

DIRECTIONS FOR USE

- 1) Applicable sheets from the City Standards shall be attached to the construction drawings and shall be considered part thereto. Individual City Standards that do not apply may be crossed out by design engineer by placing a single large X over the detail. Minor reference notations may be placed adjacent to individual standard titles for coordination. However, the standards themselves shall not be modified in any way.
- 2) Details prepared by outside sources shall not be included in the construction drawings when said details are covered by City Standards.
- 3) Details prepared by outside sources covering work which is not covered by City Standards are the sole responsibility of the design engineer and shall be placed on sheets other than the City Standard sheets.
- 4) Failure to properly execute the above directions for use will not affect the applicability nor the enforcement of the City Standards.
- 5) City of Fishers shall be contacted when required by calling the Director of Engineering.
- 6) City Standards shall be used in conjunction with the Transportation Plan and Construction
- 7) The use of INDOT refers to Indiana Department of Transportation Standard Drawings and Specifications (Current Version).

NOTES

- 1) A City of Fishers Right-of-Way Activity Permit is required for utilities crossing existing public right-of-way or encroaching into right-of-way pavement.
- 2) Utility work within existing public right-of-way or within 5 feet of existing right-of-way pavement requires removable flowable fill as backfill.





CITY OF FISHERS STANDARD CONSTRUCTION DETAILS

TITLE SHEET

	R011822A	
	RESOLUTION NO.	
	1/18/2022	
_	DATE OF ADOPTION	
	DATE OF ABOUTION	

TYPICAL SECTIONS AND PAVEMENT

SIDEWALK AND CURB RAMP DETAILS

SIGN AND PAVEMENT MARKING DETAILS

ROUNDABOUT DESIGN DETAILS HANDRAIL AND FENCE DETAILS

TIMBER GUARDRAIL DETAILS

DETENTION BASIN DETAILS

SANITARY SEWER DETAILS

EROSION CONTROL DETAILS

STORM SEWER DETAILS

LIGHTING DETAILS

DRIVEWAY AND MISCELLANEOUS ROADWAY DETAILS 5

INDEX

TITLE SHEET

CURB DETAILS

CITY STANDARDS APPLY TO PUBLIC PROPERTY & PRIVATE **PROPERTY**

03/01/24 ADDENDUM #6

REVISIONS: 02/12/24 ADDENDUM #4

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023

DRAWING TITLE:

FISHERS STANDARD **DETAILS**

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18-23

24-27

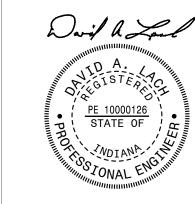
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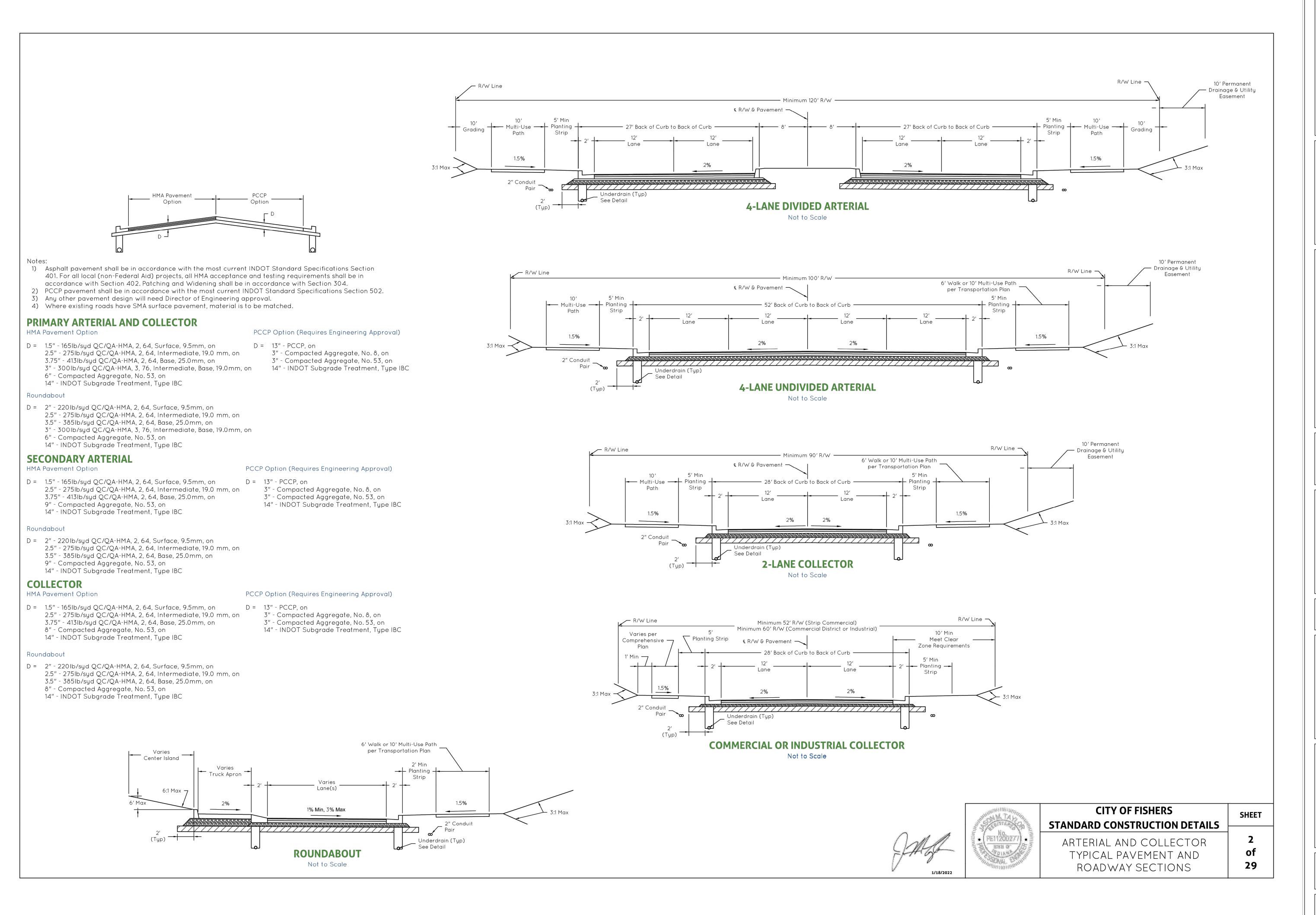
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DRAWING NUMBER



8831 Keystone Crossing, Indianapolis, IN 46240 317.848.7800 | csoinc.net



FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN

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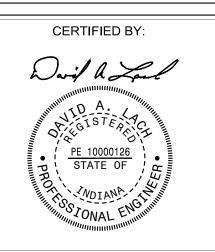
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03/01/24 ADDENDUM #6

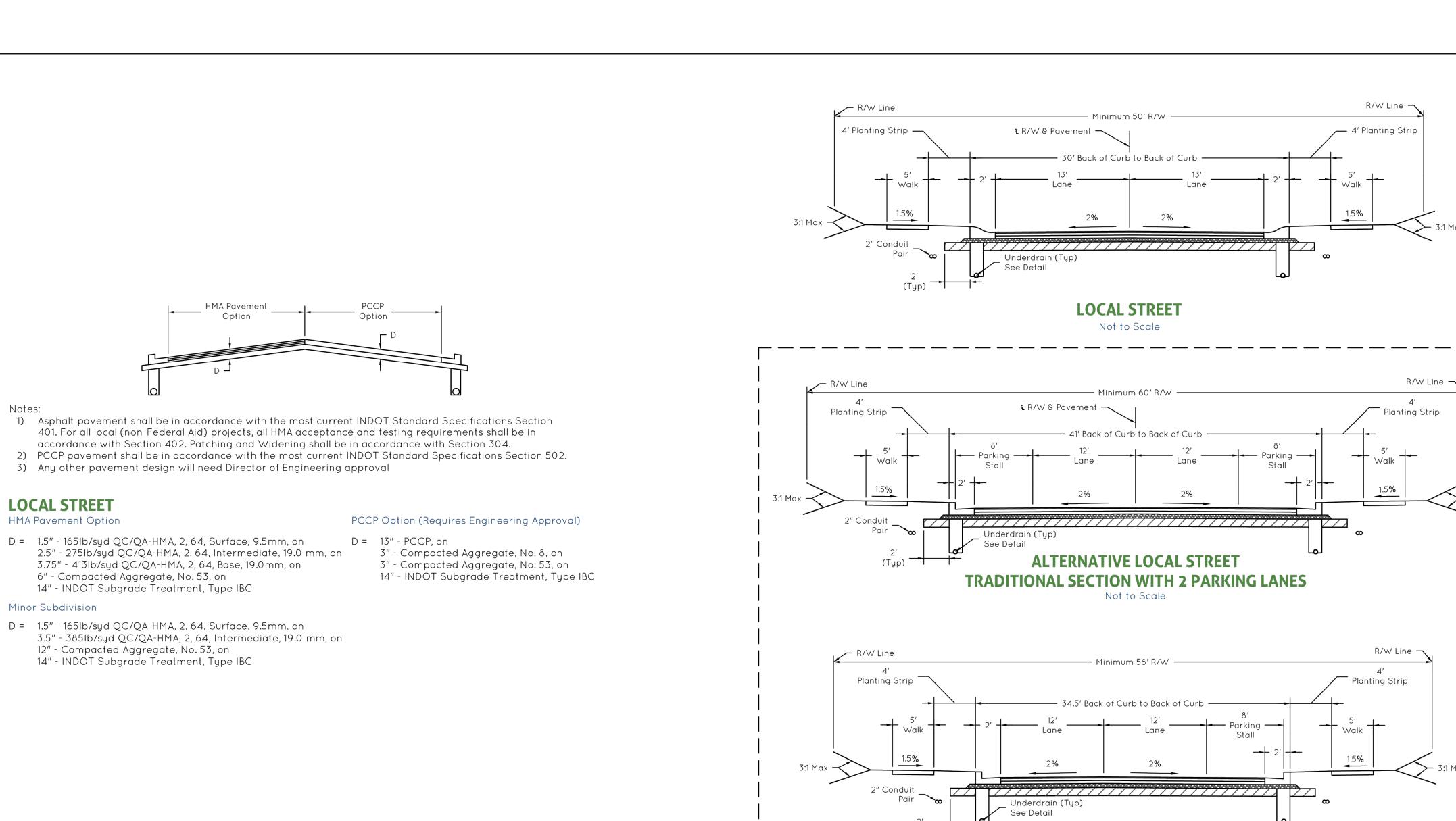
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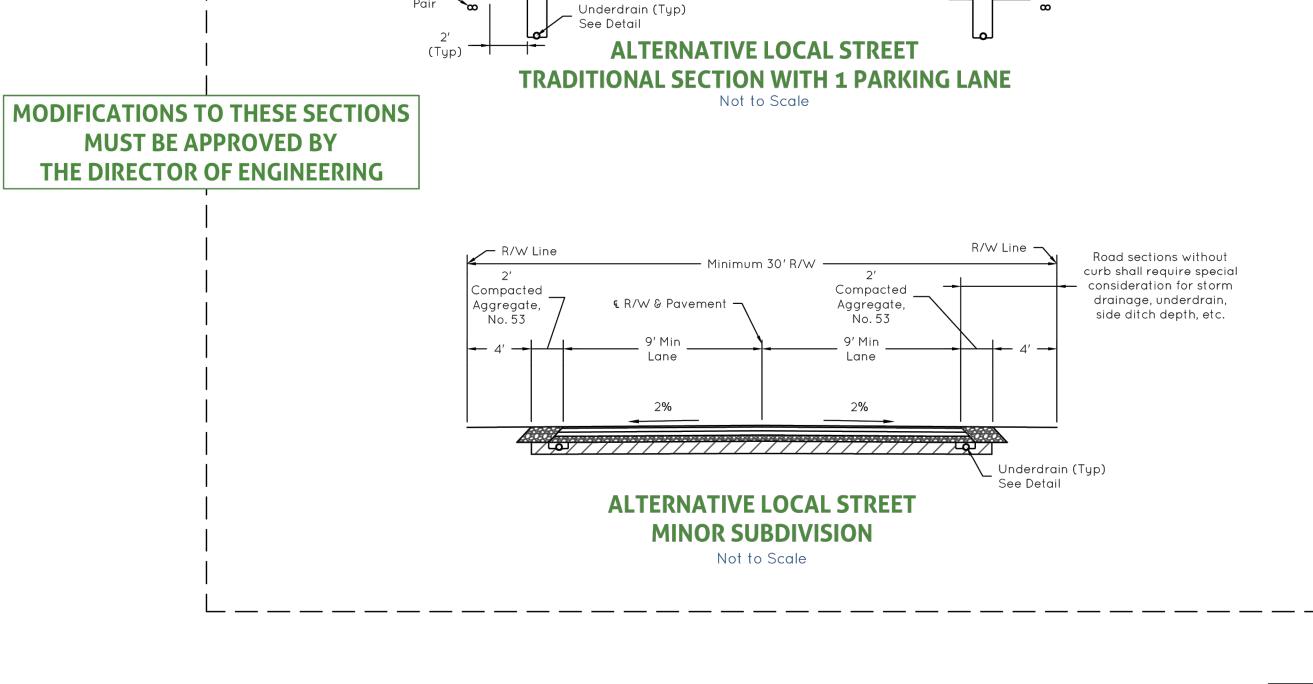
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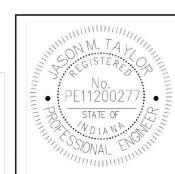


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SHEET	CITY OF FISHERS STANDARD CONSTRUCTION DETAILS
	STANDARD CONSTRUCTION DETAILS
3	LOCAL STREET
of	TYPICAL PAVEMENT AND
29	ROADWAY SECTIONS
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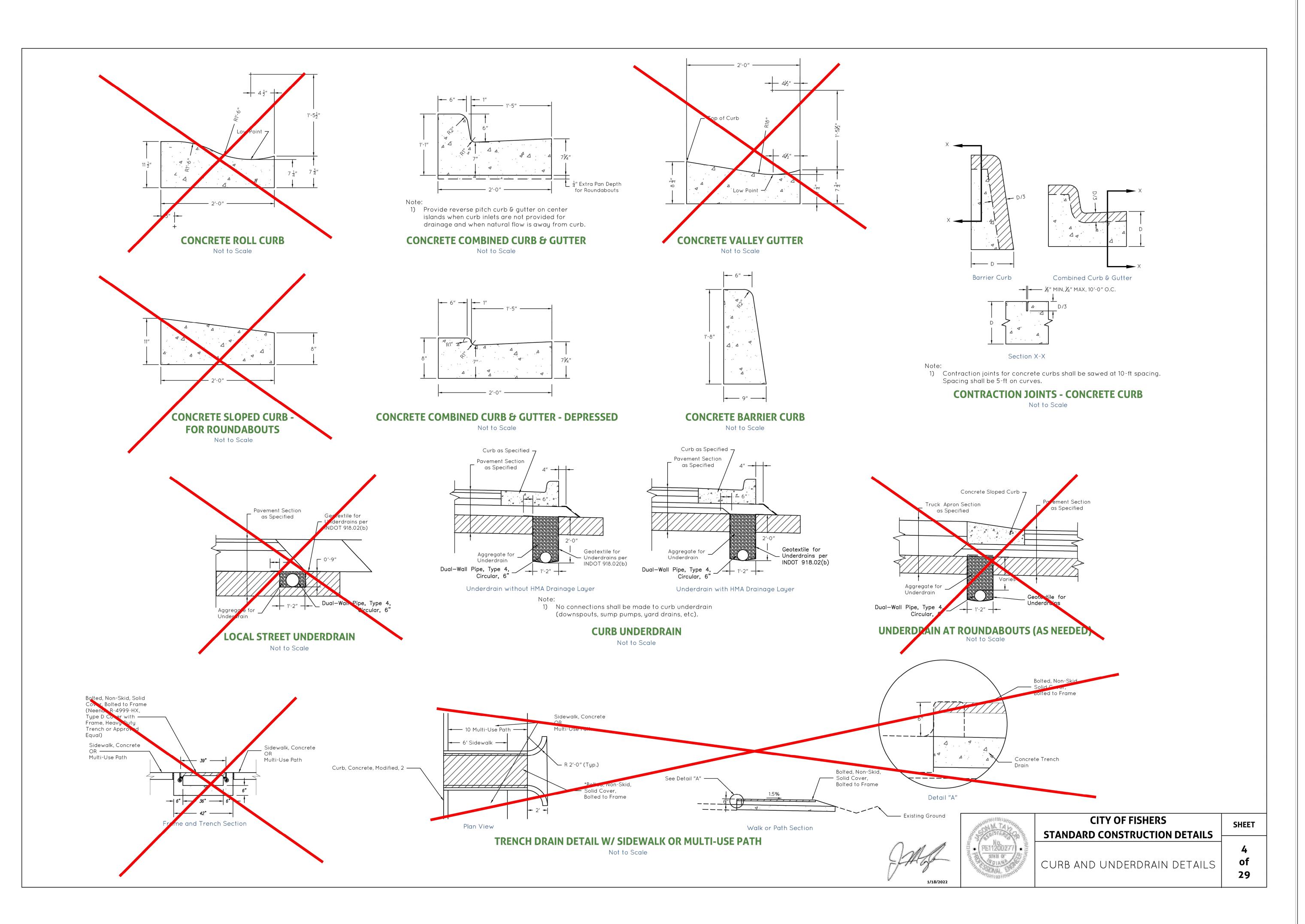
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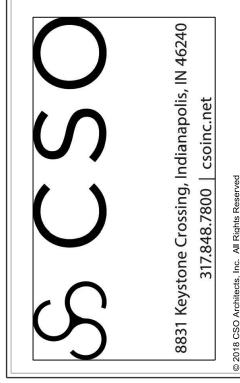
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RD, FISHERS, IN
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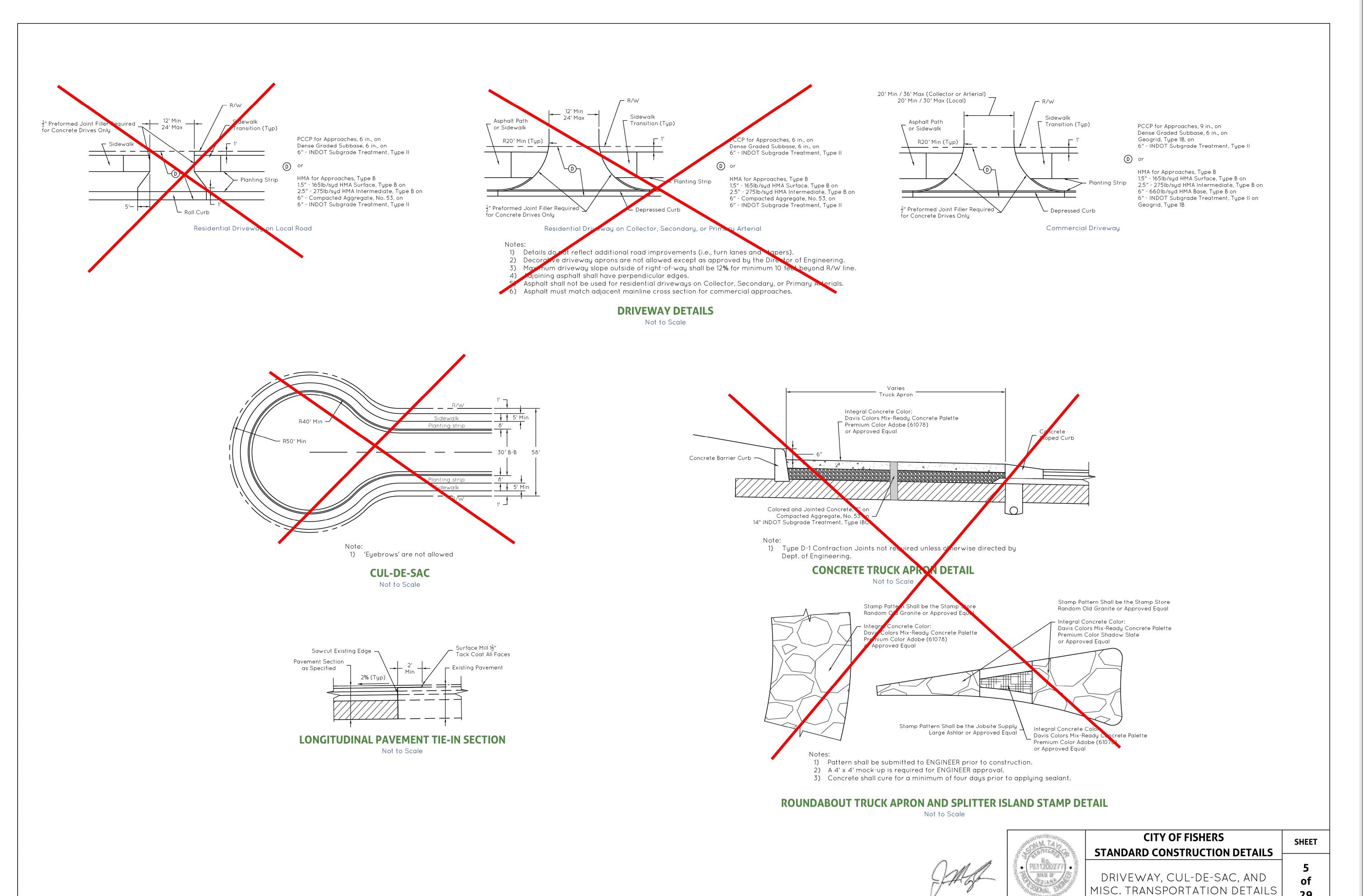
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FISHERS
STANDARD
DETAILS

CERTIFIED BY:



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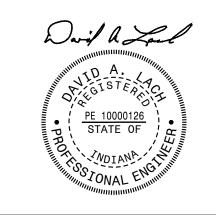
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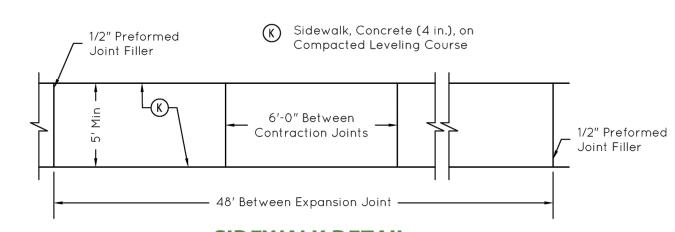


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NOTES

- 1) Curb ramps and sidewalks shall be constructed in accordance with INDOT Standard Specifications, Section 604.
- 2) All sidewalks and curb ramps within Fishers Right-of-Way shall be ADA compliant.
- 3) Detectable Warning Surfaces shall be cast iron type and shall be powder coated black.
- 4) Detectable Warning Surfaces shall not be installed at commercial or private driveways unless traffic warrants or approved by City Engineer.
- 5) Transverse joints shall be cut with a jointer having a radius of 1/2-inch of spacing.
- 6) Decorative sidewalks are not permitted unless prior approval has been given by the Director of Engineering.
- 7) When sidewalk is built in conjunction with concrete pavement, expansion and contraction joints should be placed at the same location as the pavement slab. The curb and gutter shall be tied to the pavement by 1/2-in round preformed epoxy coated bars at approximate 3-foot intervals. If concrete pavement is not being built at the same time the curb is constructed, expansion joints should be placed at the ends of all returns and at intervals not to exceed 100 feet. Contraction joints should be installed at 20-foot intervals.
- 8) Curb inlets shall not be allowed within 2 feet of curb ramps or at the apex of corner radii.

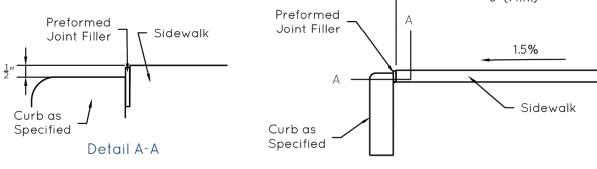


SIDEWALK DETAIL

Not to Scale

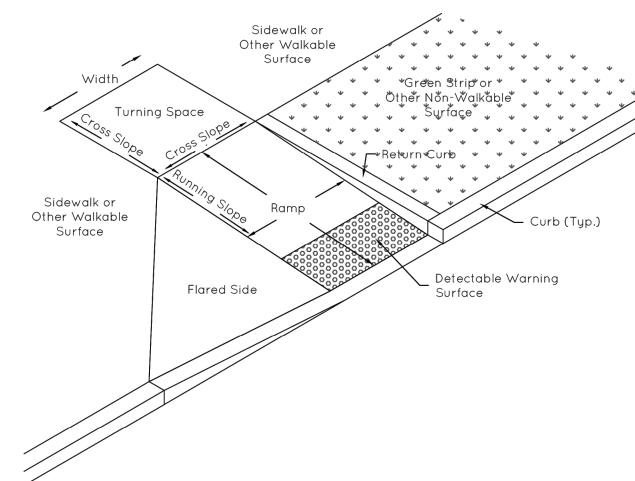


10' Des 6' Min



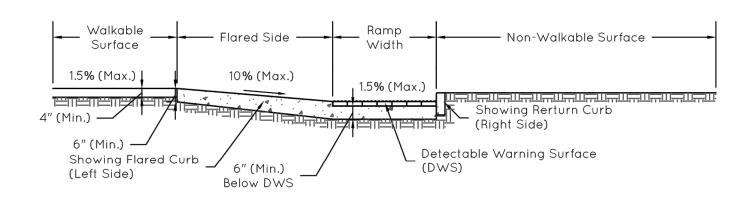
SIDEWALK ADJACENT TO CURB

Not to Scale



TYPICAL CURB RAMP COMPONENTS

Not to Scale



TYPICAL CURB RAMP CROSS SLOPE SECTION

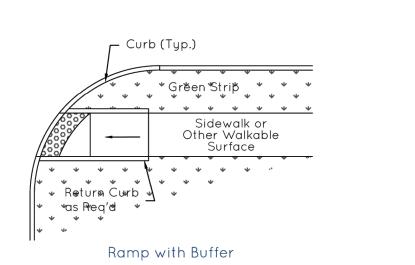
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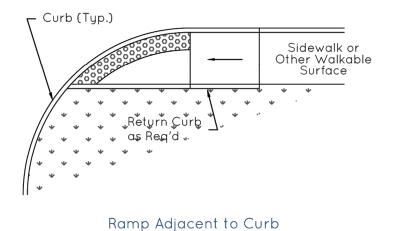
Walkable Ramp Length ---Surface **-** 2′ (Min.) ↓ 1.5% (Max.) Detectable Warning Surface 6" (Min.)

TYPICAL CURB RAMP RUNNING SLOPE SECTION

Below DWS

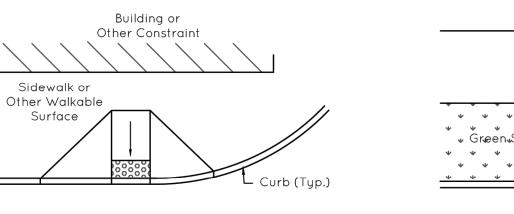
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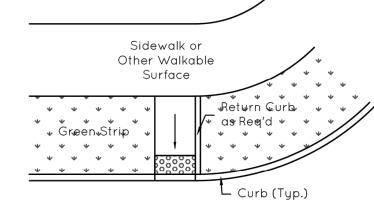


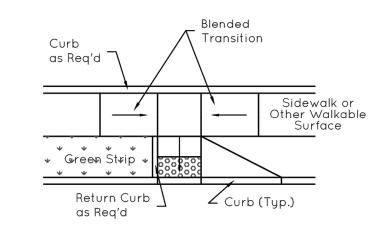
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP EXAMPLES

Not to Scale



Ramp Adjacent to Walkable Surface



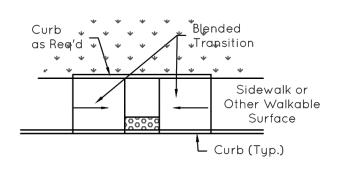


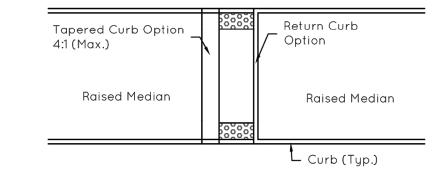
Ramp Adjacent to Non-Walkable Surface

Ramp with Grade Tiering

PERPENDICULAR CURB RAMP EXAMPLES

Not to Scale

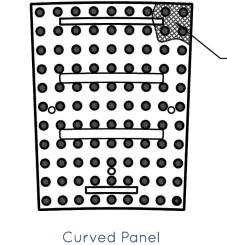


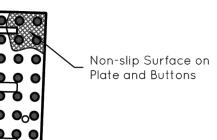


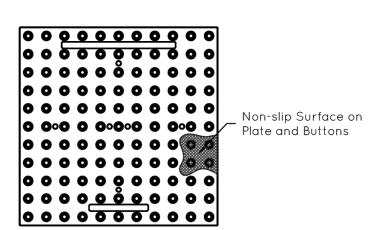
PARALLEL CURB RAMP EXAMPLE Not to Scale

MEDIAN CURB RAMP EXAMPLE

Not to Scale







Square Panel

1) Detectable warning surfaces by East Jordan Iron Works, Neenah, or approved equal shall be cast iron, have a heavy duty load rating, and be powder coated black. 2) Detectable warning surfaces shall be ADA compliant.

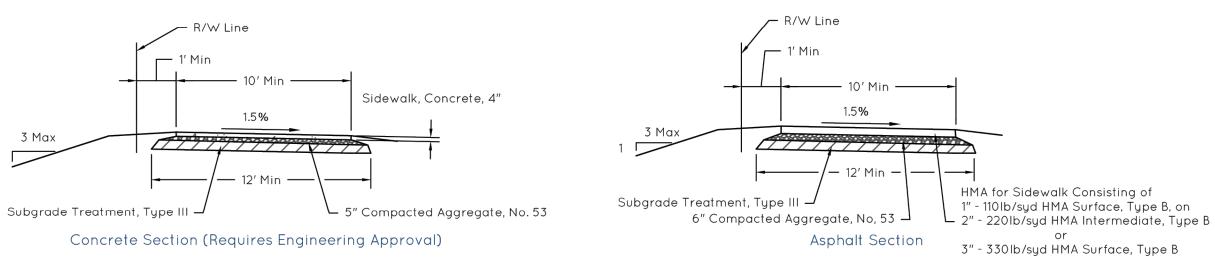
DETECTABLE WARNING SURFACE

Not to Scale



splitter island, crosswalk shall be of passthrough type without angular

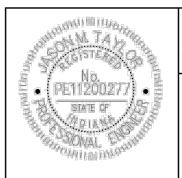
f 6' minimum cannot be achieved at the



PERIMETER PATH

Not to Scale





CITY OF FISHERS						
STANDARD CONSTRUCTION DETAILS						
SIDEWALK, CURB RAMP, AND						

PERIMETER PATH DETAILS

of

SHEET

29

PROJECT NUMBER 2021119

FISHERS ELEME ADDITIONS & DESIGN DEY 11442 L

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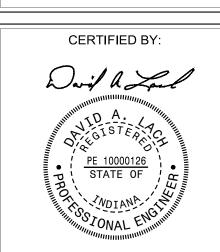
REVISIONS: 02/12/24 ADDENDUM #4 03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY

DRAWING TITLE:

01/15/2023

FISHERS STANDARD **DETAILS**



DRAWING NUMBER

PRINCIPLES AND OBJECTIVES

everarching principles should guide the development of all roundabout designs. Achieving these principles should be the goal of any roundabout design:

- Provide slowentry speeds and consistent speeds through the roundabout by using deflection.
- Provide the appropriate number of lanes and lane assignment to achieve adequate capacity, lane volume balance, and lane continuity.
- Provide smooth channelization that is intuitive to drivers and results in vehicles naturally using the intended lanes.
- Provide adequate accommodation for the design vehicles.
- Design to meet the needs of pedestrians and cyclists
- Provide appropriate sight distance and visibility for a ver recognition of the intersection and conflicting users.

Note that some features of multi-lane roundabout design are significantly different from single-lane roundabout design, and some techniques used in single-lane roundabout design may not directly transfer to multi-lane design. Each of the principles described above affects the safety and operations of the roundabout. When developing a design, the trade-offs of safety, capacity, cost, and so on must be recognized and assessed throughout the design process.

DESIGN GUIDELINES

Submittals

All roundabout designs shall be submitted for review at the following stages of development:

1)1) Preliminary layout

- 1)2) Planned roundabout capacity analysis for construction year, 10-year, and 20-year traffic review
- 2) Stage 1 or 25% plans
- 2)1) Refined geometrics 2)2) Turning movement and design vehicle selection review
- 2)3) Striping review

3) Stage 2 or 50% plans

- 3)1) Drainage and grade review
- 3)2) Roundabout sight distance review

- 4) Stage 3 or 75% plans 4)1) Landscaping review
- 4)2) Lighting review
- 4)3) Signage review

Speed Management

The maximum allowable fastest path entry speeds shall be as indicated below unless prior approval has been given by the Department.

- 1) Single-lane roundabouts 25 mph
- 2) Multi-lane roundabouts 30 mph

Design Vehicle Selection

- 1) The WB-62 shall be the minimum design vehicle for sizing the roundabout unless prior approval has been given by the Department.
- 1)1) At multi-lane approaches it shall be assumed that the WB-62 will straddle the lane line to make a through and right-turn movement.
- 2) At a minimum, the WB-62 shall be able to travel through a roundabout without over-tracking any curb with the exception of the truck apron roll curb unless prior approval has been given by the Department.
- 3) The circulatory roadway and all lanes within a multi-lane roundabout shall accommodate a city-bus, fire truck, and school bus unless prior approval has been given by the Department.

Inscribed Circle Diameter (ICD)

Unless prior approval is given by the Department, the smallest ICD used for design shall be 110 ft.

Entry Geometry and Path Alignment

- 1) If horizontal deflection is utilized on an approach to a roundabout it should be a 6 ft offset minimum and, ideally, 10 to 12 ft to ensure drive path is influenced.
- 2) Entries shall be designed such that path overlap is eliminated.

Profiles and Grades

Vertical profiles and roundabout grading should take into consideration low clearance vehicles specially on heavy truck routes.

Splitter Islands

- 1) Splitter islands for single-lane roundabouts should be 50 feet or greater in length and 100 feet or greater in length for multi-lane roundabouts measured from the circulatory roadway.
- 2) On high speed approaches (design speed of approaching roadways above 45 mph) consideration should be given for the splitter island length to be the SSD of mat design speed.

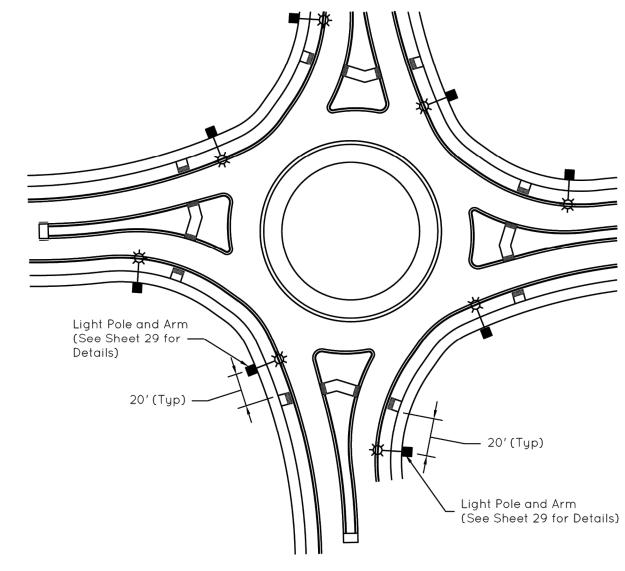
Drainage

No drainage structures shall be located within the circulatory roadway unless prior approval has been given by the Department.

Landscape

Any landscaping or object located within the center island shall be approved by the City of Fishers.

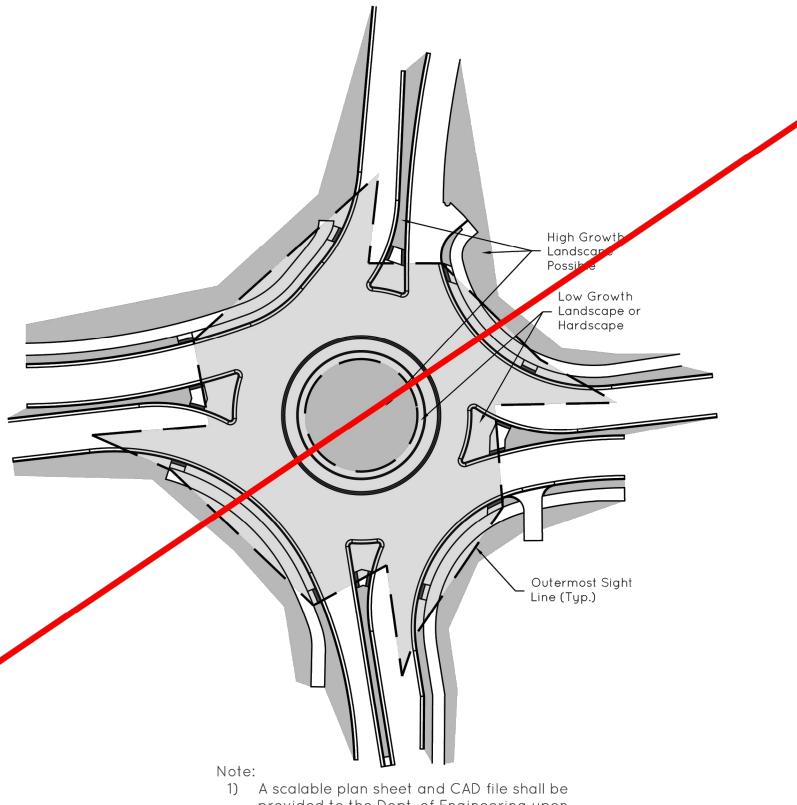
- 1) If no landscaping is proposed in the center island, fill should be placed at a 6:1 slope in order to provide a sight obstruction mound.
- 2) All splitter island less than 8 ft in width and between the pedestrian crosswalk and circulatory roadway shall not be landscaped and shall be in stamped concrete unless prior approval has been given by
- minimum median width shall be 52 inches. If 52 inches cannot be achieved, then median must stamped concrete or landscaped with typical Fishers narrow median landscape plan as provided by City during plan review.



- 1) Lighting design shall be in conformance with the IES Design Guide (IES DG-19-08) and City of Fishers standards.
- 2) Luminaire, pole, and placement shall be coordinated for installation by Duke Energy.
- Do not backlight pedestrians.
- The full length of splitter islands shall be illuminated unless prior approval has been given by the Department.
- ditional poles should be provided as required to meet priate photometeric results for complex geometry

XPICAL LIGHTING PLACEME

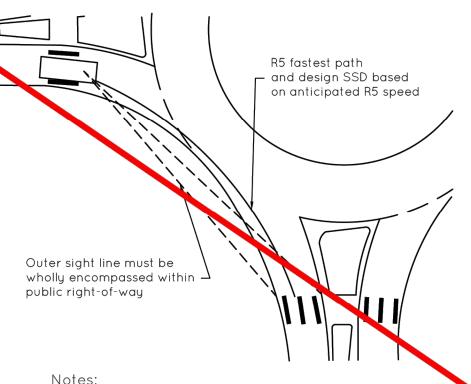
Not to Scale



provided to the Dept. of Engineering upon completion of final plans.

EXAMPLE LANDSCAPE AREAS DIAGRAM

Not to Scale

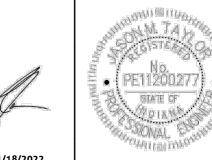


1) This detail is to provide additional guidance to designers. Designer shall not arbitrarily place vehicle at yield line or circulatory roadway edge line to check visibility.

2) All roundabout sight lines shall be checked in accordance with NCHRP 672.

STOPPING SIGHT DISTANCE (SSD) TO CROSSWALK

Not to Scale



CITY OF FISHERS STANDARD CONSTRUCTION DETAILS

ROUNDABOUT DESIGN

STANDARDS

SHEET

FISHERS ELEME ADDITIONS & DESIGN DE

SCOPE DRAWINGS: work required for full performance and completion of the On the basis of the general scope indicated or desc

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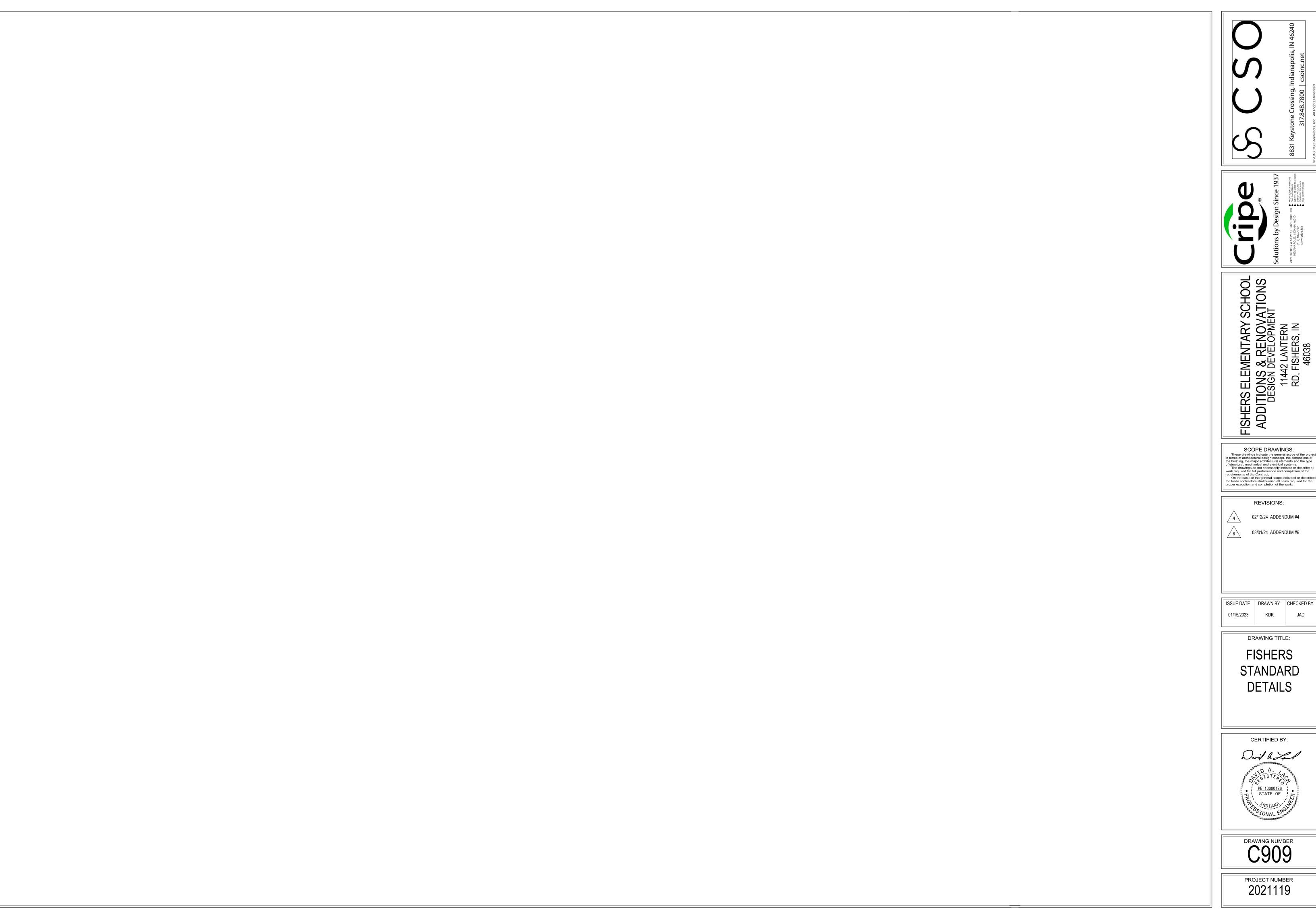
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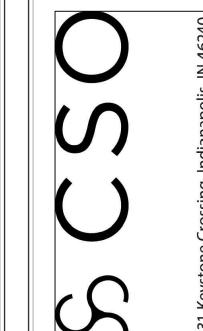
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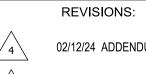


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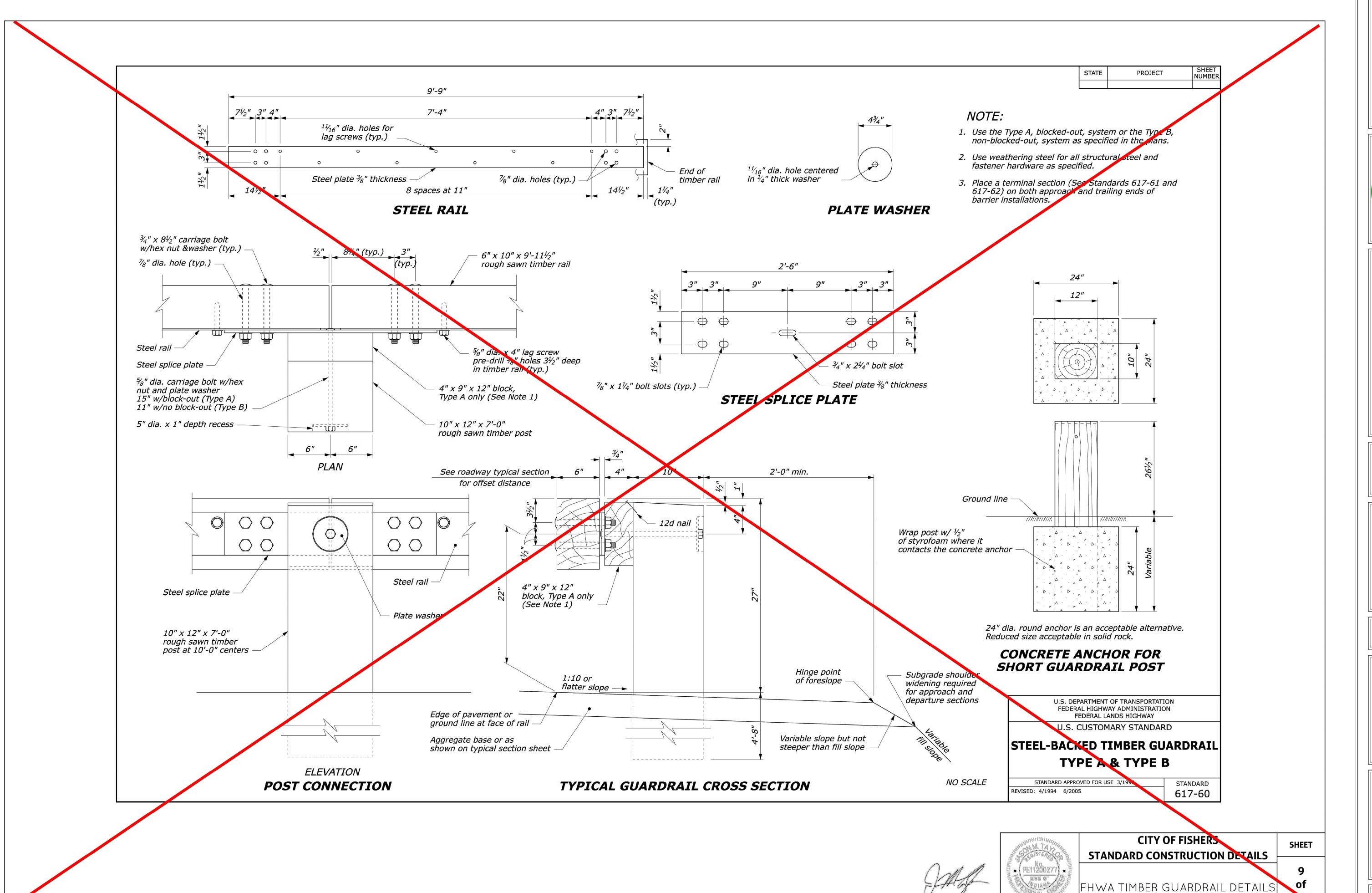
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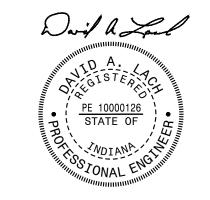
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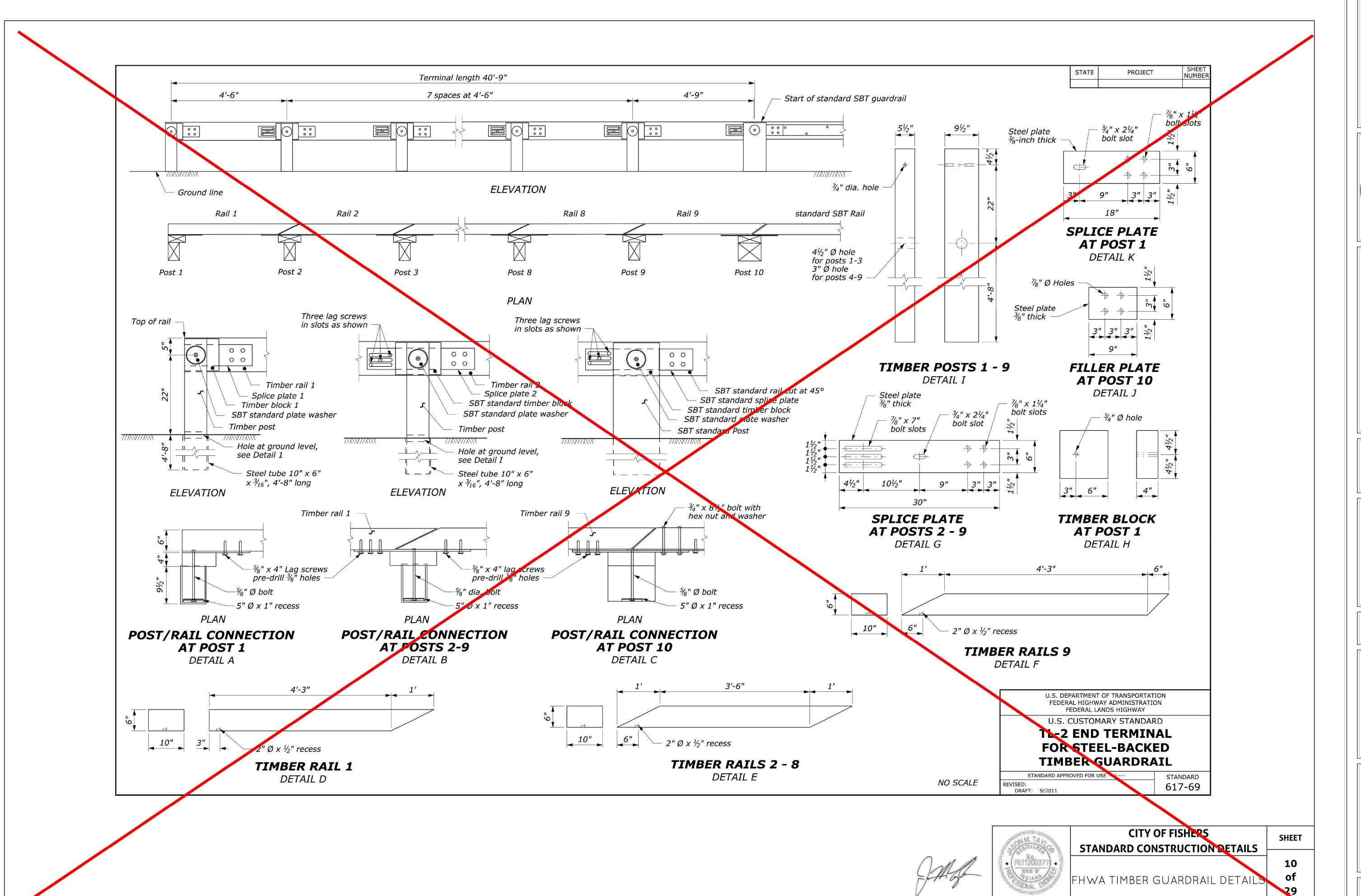
01/15/2023

DRAWING TITLE: **FISHERS** STANDARD **DETAILS**

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DRAWING NUMBER C910



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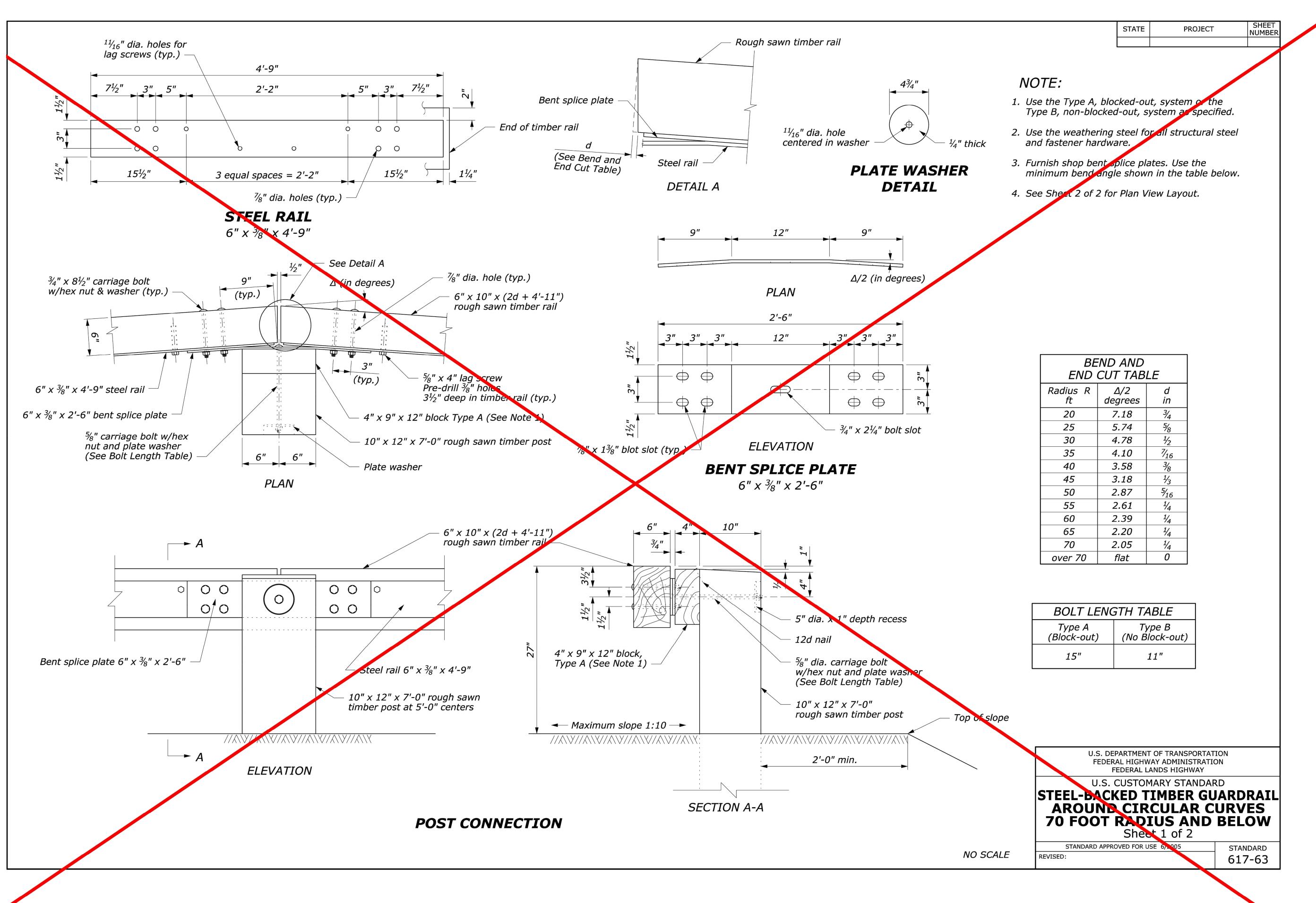
02/12/24 ADDENDUM #4

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ISSUE DATE DRAWN BY CHECKED BY 01/15/2023 KDK JAD

FISHERS
STANDARD
DETAILS

C911







PROJECT NUMBER 2021119

DRAWING NUMBER

C912

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

SCOPE DRAWINGS:

REVISIONS:

02/12/24 ADDENDUM #4

03/01/24 ADDENDUM #6

ISSUE DATE DRAWN BY CHECKED BY

DRAWING TITLE:

WATER

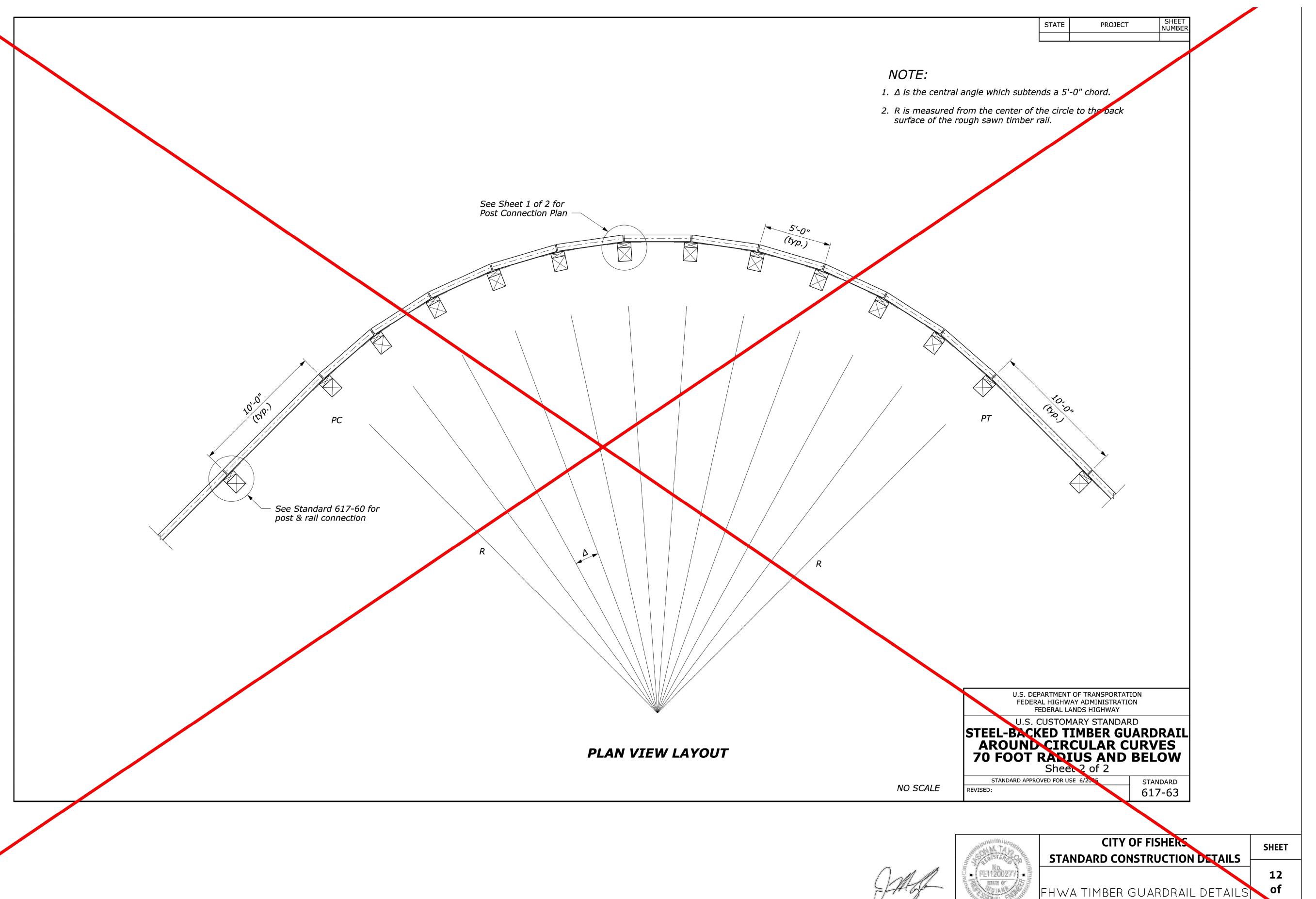
DETAILS

CERTIFIED BY:

Dail a Land

01/15/2023

CITY OF FISHERS SHEET STANDARD CONSTRUCTION DETAILS 11 FHWA TIMBER GUARDRAIL DETAILS





DRAWING NUMBER

PROJECT NUMBER 2021119

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

REVISIONS:

02/12/24 ADDENDUM #4

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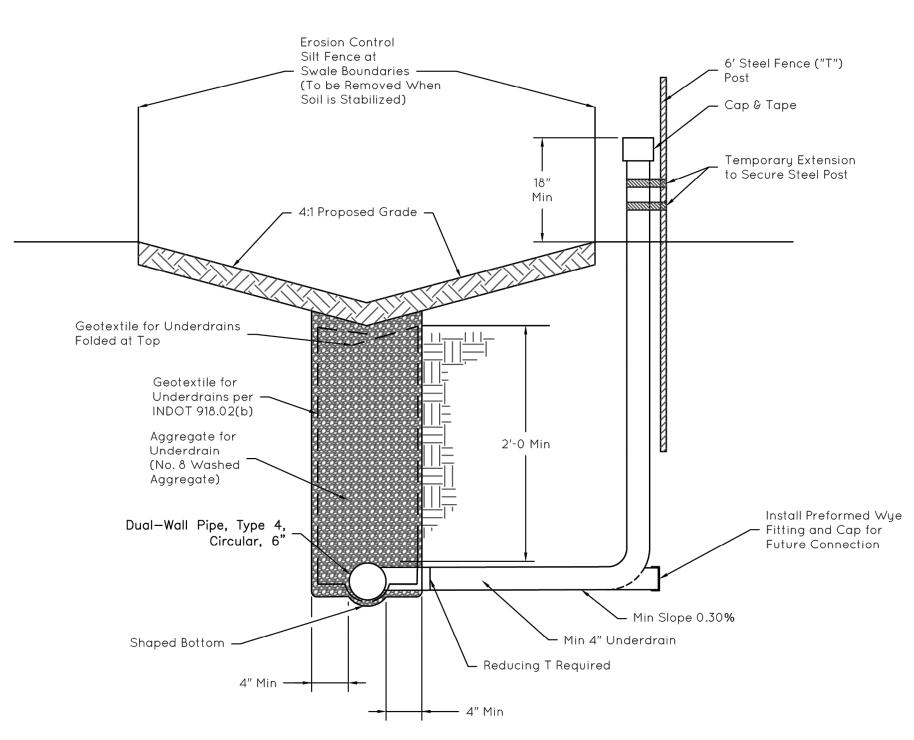
ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023

DRAWING TITLE:

WATER **DETAILS**

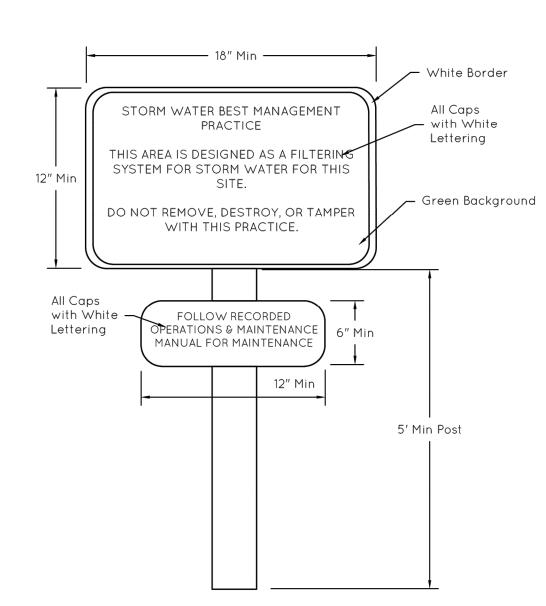
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Dail a Land



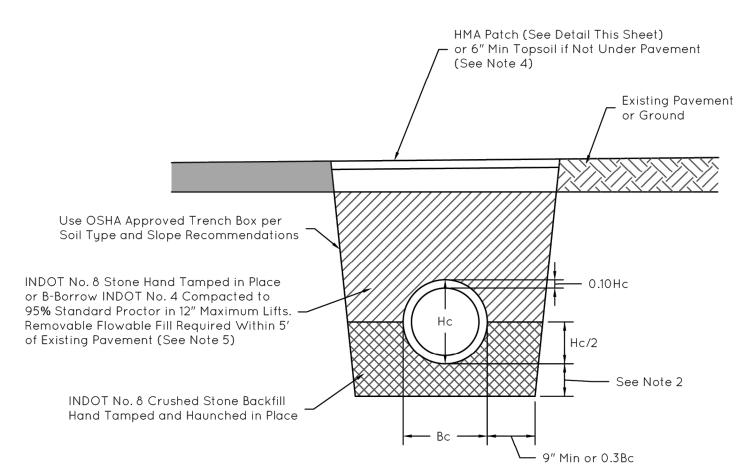
- 1) Temporary extension above ground to be removed upon connection to house. If extension is not utilized, it shall be capped below ground level.
- 2) Location of structures shall be shown on as-built plans.
- 3) Must connect sump pumps to underdrain.
- 4) Required for all rear yard drainage swales unless waived in writing by the Director of Engineering.

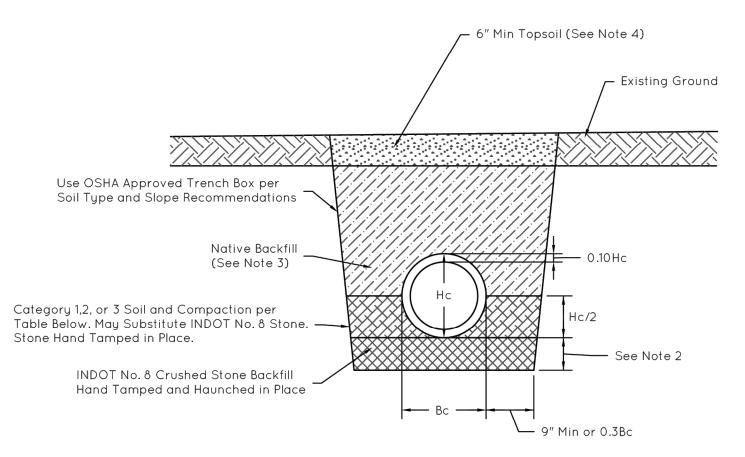
REAR YARD UNDERDRAIN Not to Scale



- 1) BMP signs should be placed immediately adjacent or within the practice.
- 2) Signs should be aluminum and meet minimum IMUTCD standards.
- 3) Total number of signs required for each BMP is subject to plan review.

BMP SIGN Not to Scale





Within 5' of Pavement or Under Pavement

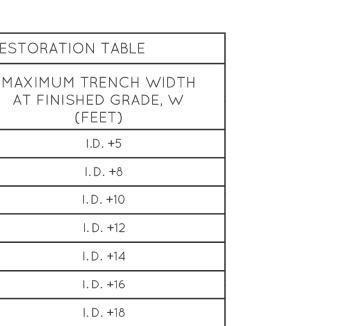
Outside of Pavement

SOIL CATEGORY	SOIL NAME	USCS SOIL TYPE	AASHTO SOIL TYPE		MODIFIED PROCTOR
CATEGORY 1	CLEAN GRAVEL OR SAND	SW, SP, GW, GP	A1, A3	85	80
CATEGORY 2	SILTY GRAVEL OR SAND	GM, SM, ML & GC/SC W/LESS THAN 20% PASSING #200 SIEVE	A2, A4	90	85
CATEGORY 3	SILTY CLAY	CL, MH, GC, SC	A5, A6	95	85

Reference: American Concrete Pipe Association Standard Installation Manual

- 1) For backfill purposes, paved shoulders and curbs are considered pavement. If paving is to occur within 30 days of placement of INDOT No.#4 B-Borrow, contractor
- shall provide City of Fishers with Professional Engineer certified compaction results.
- 2) Depth of bedding material below pipe shall be minimum of 3" or hc/24, whichever is greater. 3) Native backfill material must be free of aggregate greater than 6" diameter.
- 4) Topsoil material shall be mounded to accommodate settlement.
- 5) Removable flowable backfill shall be required for all open cuts across existing pavement and will also be allowed as a substitute for other backfill requirements. 6) Pipe and fittings used in storm sewer construction shall be RCP (AASHTO M170) and meet the fill height and load requirements according to the latest fill height tables of INDOT. Refer to Chapter 4.J of the City of Fishers Stormwater Technical Standards Manual for other approved pipe materials that may be used in commercial
- parking lots or private, non-paved areas. Any alternative pipe materials shall be in accordance with the requirements of Chapter 4.J, and shall be installed in accordance with manufacturer's specifications.
- 7) A minimum of Class III RCP (D-load 1350 lb/ft/ft) is required for all pipe within the City of Fishers Right-of-Way, or areas subject to loading. An alternate pipe class (Class IV or V) may be required by the design engineer or Director of Engineering for special pavement loading circumstances.
- 8) For pavement bores, alternative materials will be considered.
- 9) For elliptical or arch pipe installations, see installation specifications from the American Concrete Pipe Association.
- 10) For all excavation work, OSHA approved safety standards shall be followed.

TRENCH BACKFILL DETAILS



I.D. +20 18 to 20 I.D. = Pipe or Conduit Inside Diameter

PAVEMENT RESTORATION TABLE

(FEET)

I.D. +5

I.D. +8

I.D. +10

I.D. +12

I.D. +14

I.D. +16

I.D. +18

UTILITY

DEPTH RANGE

(FEET)

0 to 5

5 to 8

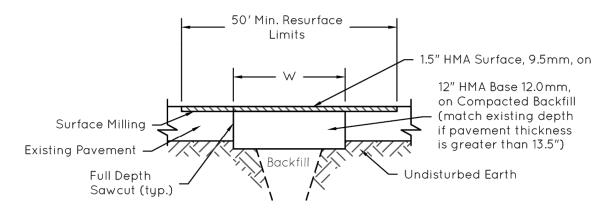
8 to 10

10 to 12

12 to 14

14 to 16

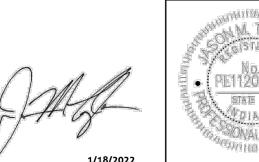
16 to 18



- 1) Sawcuts shall provide a vertical, neat, and uniform edge.
- 2) All materials shall comply with specifications as required by the City of Fishers. 3) Contractor shall surface mill (1.5") existing pavement 25 ft. in each direction
- from trench centerline from face-of-curb to face-of-curb or edge-of-roadway, replace with 1.5" HMA Surface, 9.5mm, and appropriate pavement markings.
- 4) The existing milled surface and HMA Base layer is to be tack coated prior to the placement of new asphalt. The new surface pavement grade shall match the existing surface pavement grade.
- 5) A two (2) inch wide band of crack sealant is to be applied along the joint between the existing and new asphalt surface. Sealant is to be applied in accordance with INDOT Standard Specifications, Section 305.
- 6) Refer to Pavement Restoration Table for W.

HMA PATCH DETAIL

Not to Scale



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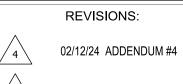
	CITY OF FISHERS STANDARD CONSTRUCTION DETAILS	SHEET
	STANDARD CONSTRUCTION DETAILS	
• 11	STORM SEWER BACKFILL, SWALE	13
	UNDERDRAIN. EXCAVATION	of
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	DETAILS AND NOTES	29

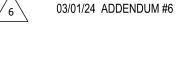


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ADDITIONS (
DESIGN E

SCOPE DRAWINGS: These drawings indicate the general scope of the projec n terms of architectural design concept, the dimensions of he building, the major architectural elements and the type of structural, mechanical and electrical systems.

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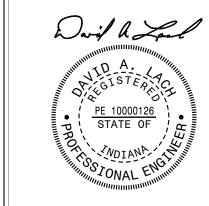


ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023

DRAWING TITLE:

WATER **DETAILS**

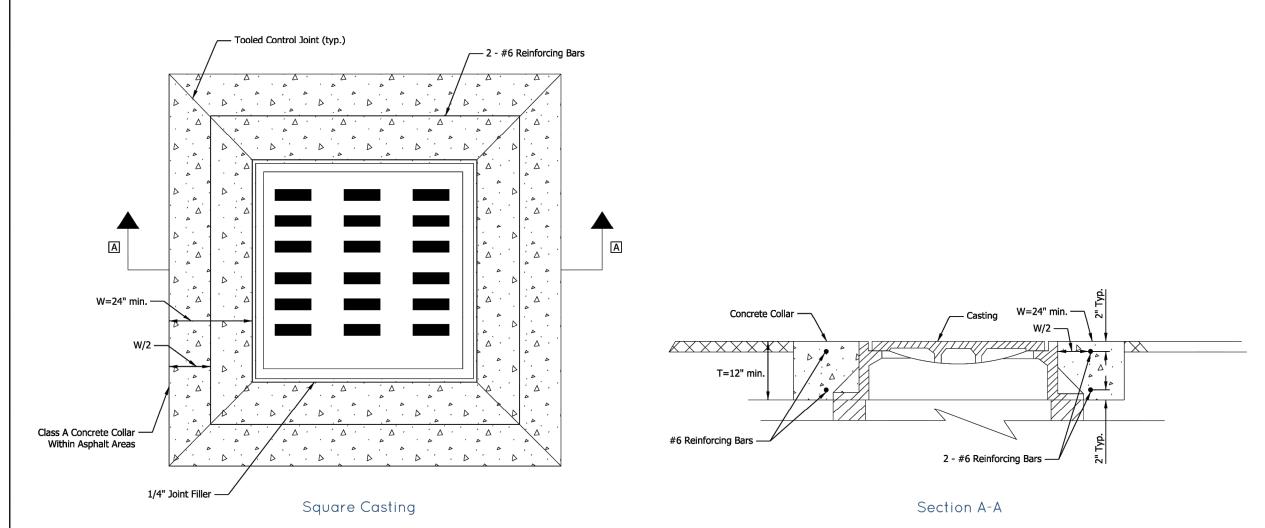
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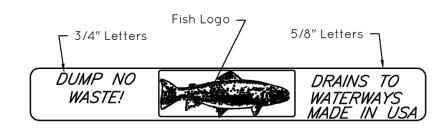
DRAWING NUMBER

NOTES

- 1) Inlet boxes shall not extend into the pavement section beyond the width of the wall thickness which shall be a maximum of 6 inches. Square or rectangular structures shall be utilized for all pipe connections along the curb line. The maximum inlet box size shall be limited to 24"x36". Mainline pipe shall be defined as all pipe greater than 15" in diameter. No mainline pipe shall be allowed in direct connection to the inlet box. Details and manufacturer shop drawings shall be provided for all pipe connections less than 90 degrees to the box edge. Field changes to structures shall be cut or cored. Round structures shall only be allowed for areas outside of the curb line and outside of road section pavement.
- 2) 24"x24" inlet boxes shall be limited to depths of 5 feet. Inlet boxes greater than 5 feet in depth shall be 24"x36" (inside dimensions), or greater, and include steps.
- 3) The downstream most structure that collects runoff from within the Right-of-Way shall be sumped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.
- 4) The contractor shall use precast inlets or catch basins, unless otherwise approved by the Director of Engineering, that are in accordance with INDOT Standard Specifications.
- 5) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.
- 6) If a precast inlet, catch basin, or manhole is used and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for inlets that are not precast.
- 7) Waterproofing material shall conform to AASHTO M115 and INDOT Standard Specifications.
- 8) All curb inlets and catch basins shall be equipped for underdrains.
- 9) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.
- 10) Expansion joints are required around castings for all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.
- 11) All castings shall be checked to meet inlet design and ensure compatibility with curb specified, swales, ponds, etc. All castings shall be in accordance with the Compatibility of Inlet Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.
- 12) All inlet castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grated or otherwise designed to limit floatables and debris from entering the inlet box.
- 13) No inlet castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

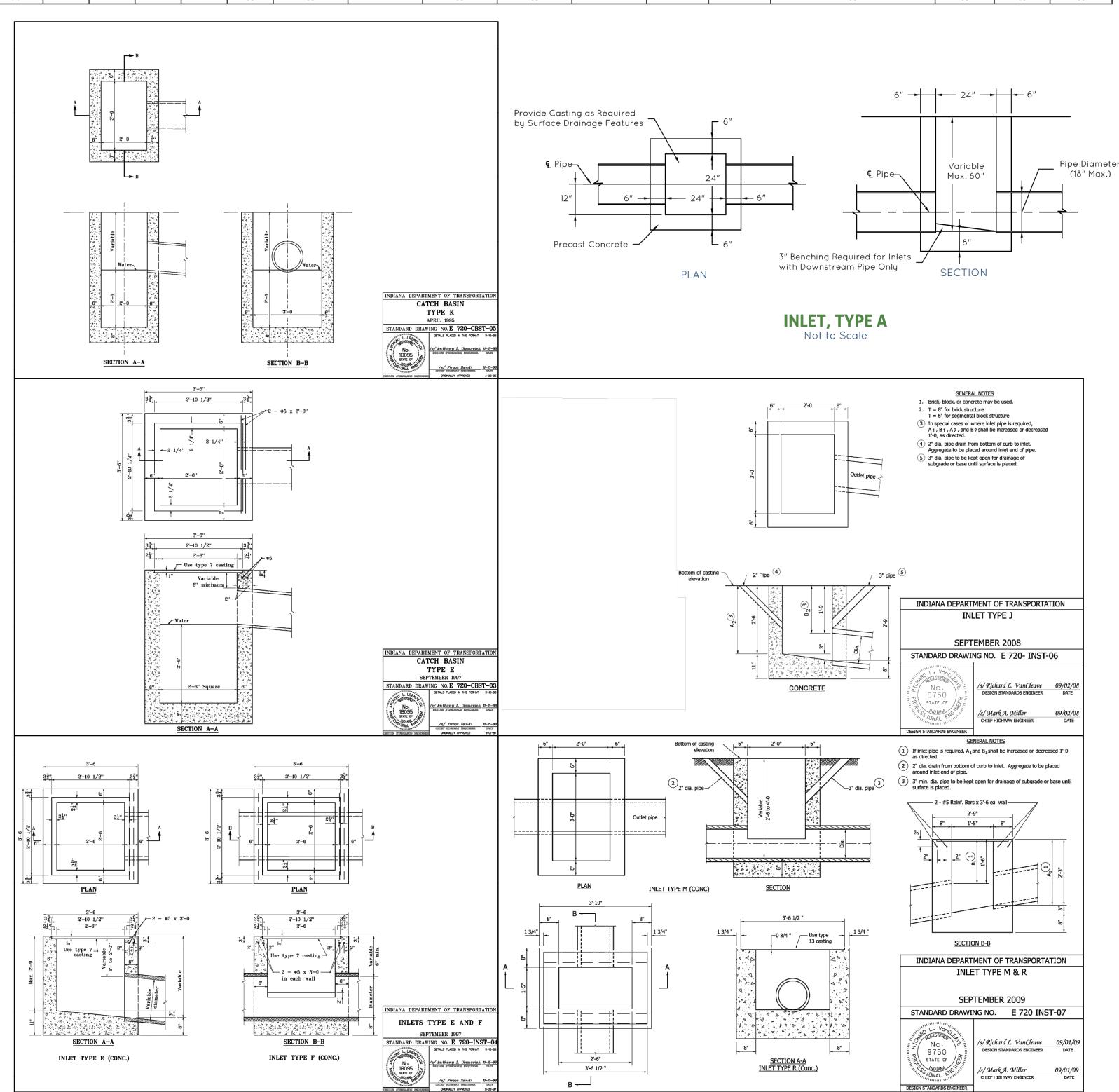


CONCRETE COLLAR FOR SQUARE CASTINGS DETAIL Not to Scale

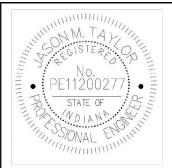


INLET LID CASTING DETAIL Not to Scale

	COMPATIBILITY OF INLET STRUCTURES AND CASTINGS															
INLET	INLET INDOT CASTING TYPES						NEENAH CASTING TYPES				EAST JORDAN IRON WORKS CASTING TYPES					
TYPE	2	3	7	8	10	R-3287-10V	R-3405-A	R-3501-TR	R-3501-TL	R-4215-C	5250	6610	7030 w/ M2 Grate & T1 Back	7495M1	7495M2	7495M4
А	Χ	Χ		Х			Х				Х					
Е			Х							Х		Х				
F			Х							Х		Χ				
J					Х	Х		Х	Х				X	Х	Х	X
М					Х	X		X	X				X	Х	Х	X







CITY OF FISHERS
STANDARD CONSTRUCTION DETAIL
STORM SEWER INLET STRUCTU
DETAILS AND NOTES

FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

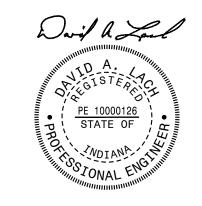
SCOPE DRAWINGS: work required for full performance and completion of the

REVISIONS: 02/12/24 ADDENDUM #4 03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY 01/15/2023

> DRAWING TITLE: WATER **DETAILS**

> > **CERTIFIED BY:**



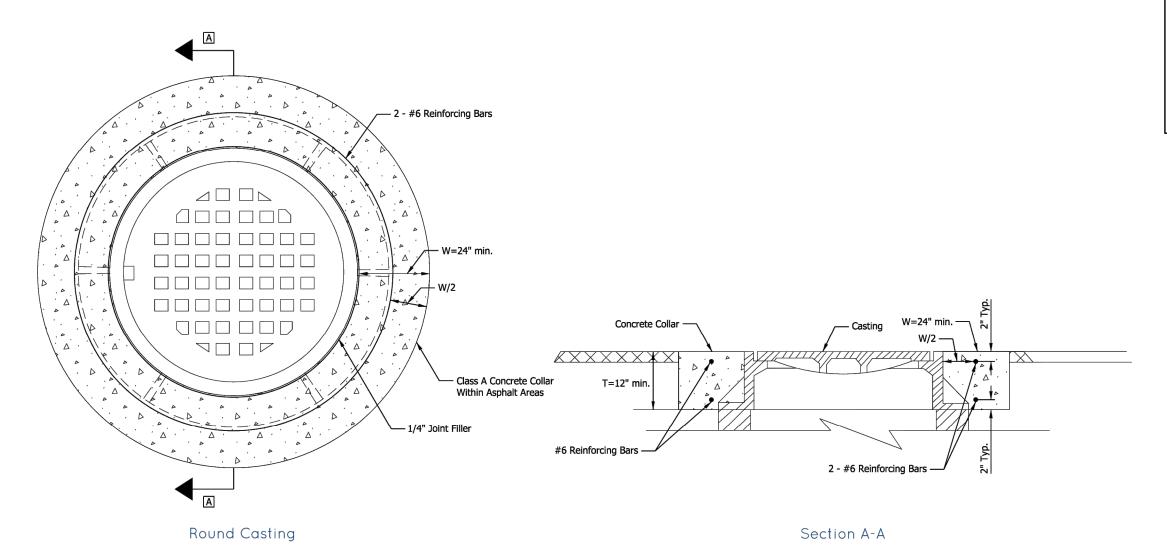
SHEET

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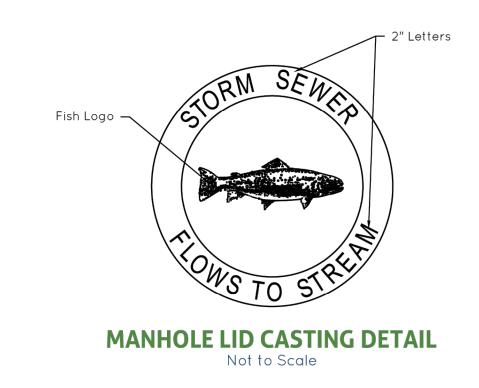
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NOTES

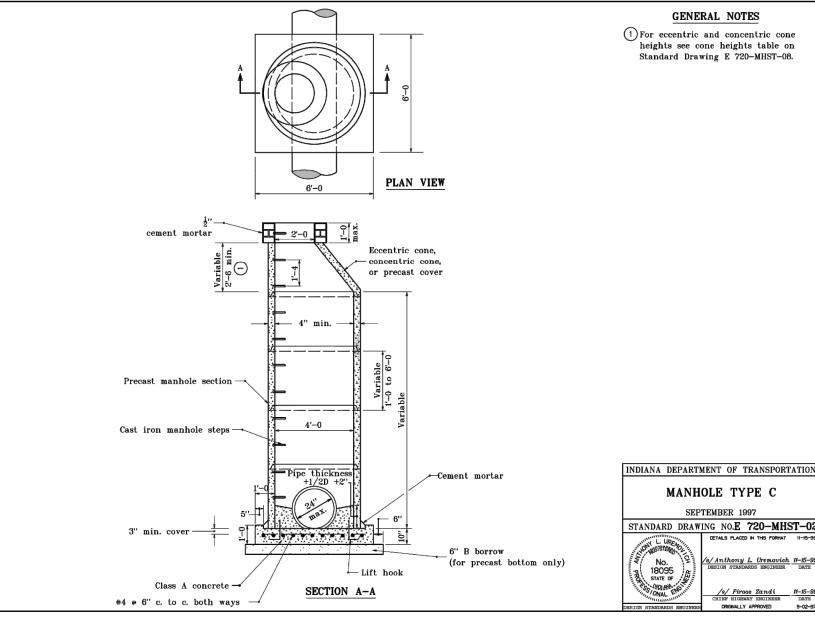
- 1) All precast manhole materials shall conform to ASTM C-478 and INDOT Standard Specifications (min. sq. in. of reinforcing steel per lineal foot of barrel shall be 0.12).
- 2) A 6" cushion of INDOT No. 8 crushed stone shall be required when the precast bottom section is used.
- 3) Joints between sections of precast manholes shall be in accordance with ASTM C-443.
- 4) If the contractor uses a precast manhole and the adjoining pipes are field connected directly to the precast unit, the connection shall be made using a Class "A" concrete collar of 6" minimum longitudinal and radial thickness. Brick should be used as a filler for concrete patching for manholes that are not
- 5) Drop pipe may be used with Manhole, Type D, E, F, or G and referred to as Drop Manhole, Type D, E, F, or G as approved by the Director of Engineering.
- 6) Bottom shall be constructed of precast bottom section or Class "A" concrete formed in place.
- 7) Benchwalls shall be Class "A" concrete.
- 8) Waterproofing material shall conform to AASHTO M115 and INDOT Standard Specifications.
- 9) Flat precast covers shall be used where headroom is limited.
- 10) The downstream most structure that collects runoff from within the Right-of-Way shall be sumped (2 feet) prior to the detention basin and is required to be placed within 15 feet of the curb, where practical, and equipped with a snout to catch floatables.
- 11) All structures receiving sub-surface drain (SSD) shall have both ports core drilled. T or Y blind connections are not allowed.
- 12) Expansion joints around castings are required at all structures located within PCCP, PCC sidewalk, PCC multi-use paths, or concrete curb and/or gutter.
- 13) All manhole castings shall be checked to meet inlet grate design and ensure compatibility with curb specified, swales, ponds, etc. In accordance with the Compatibility of Manhole Structures and Castings Table, this sheet, unless otherwise approved by the Director of Engineering.
- 14) All manhole castings shall contain a "NO DUMPING, DRAINS TO WATERWAY" or equivalent clean water message to educate and warn against illegal dumping. Casting openings should be grated or otherwise designed to limit floatables and debris from entering the manhole.
- 15) All manhole steps shall conform to INDOT Standard Drawing 720-MHST-09.
- 16) No manhole castings shall be installed within wheel paths, unless otherwise approved by the Director of Engineering.

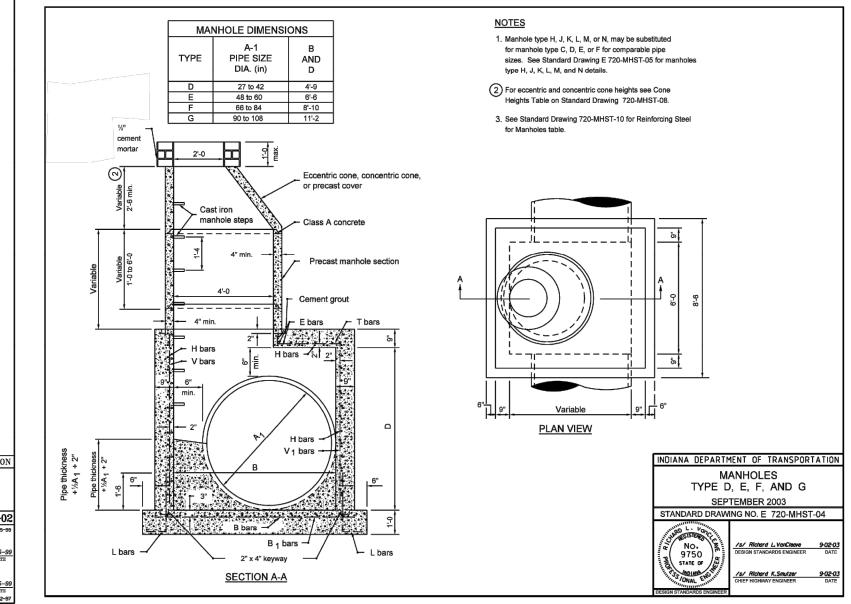


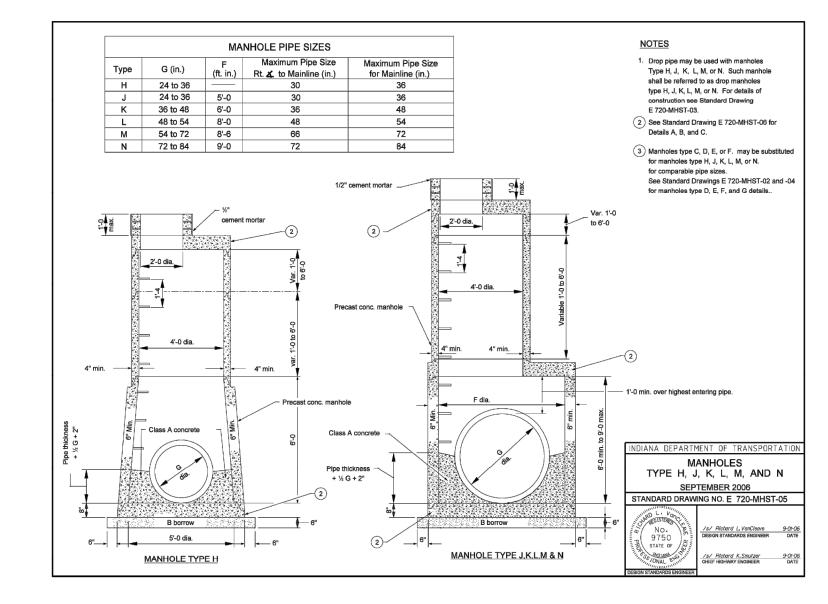
CONCRETE COLLAR FOR ROUND CASTINGS DETAIL



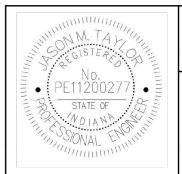
COMPATIBILITY OF MANHOLE STRUCTURES AND CASTINGS										
MANHOLE	INDOT CASTING TYPES			NEENAH CASTING TYPES			EAST JORDAN IRON WORKS CASTING TYPES			
TYPE	2	4	8	R-2502-D	R-4342	R-1772	1022 w/ Type A Lid	1022 w/ M1 or M3 Grate	6489	
С	Χ	Х	Х	Х	Х	Х	X	X	X	
Н	Χ	Х	Х	Х	Х	X	X	X	X	
J	Χ	Х	Х	Х	Х	Х	X	X	Х	
K	Χ	Х	Х	Х	Х	Х	X	X	Х	
L	Χ	Х	Х	Х	Х	X	X	X	Х	
М	Х	Х	Х	Х	Х	Х	Х	X	Х	
N	Х	Х	Х	Х	Х	Х	X	X	Х	











	CITY OF FISHERS STANDARD CONSTRUCTION DETAILS	SHEET
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SCOPE DRAWINGS: work required for full performance and completion of the On the basis of the general scope indicated or descr

REVISIONS: 02/12/24 ADDENDUM #4

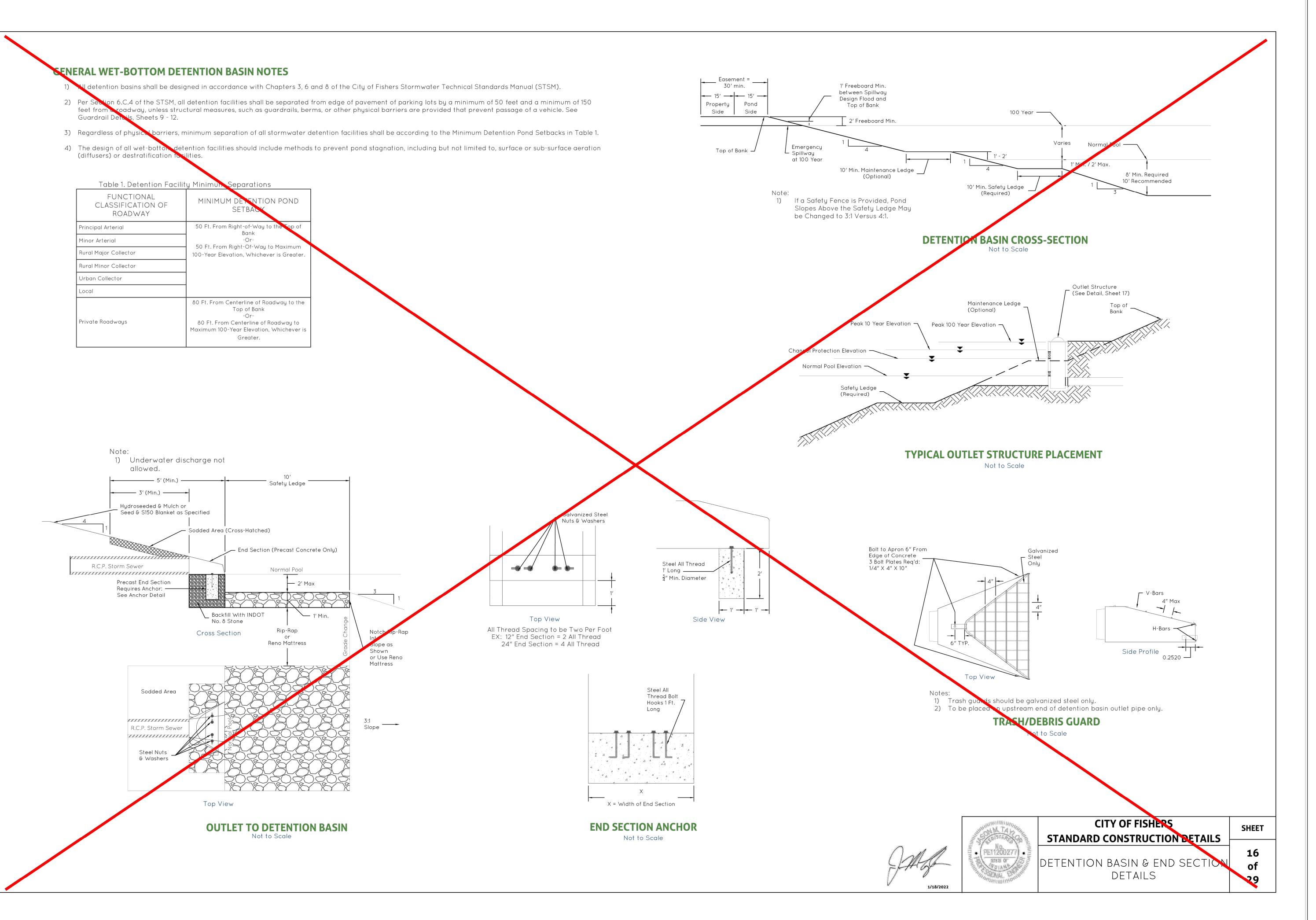
03/01/24 ADDENDUM #6

DRAWING TITLE:

WATER **DETAILS**

CERTIFIED BY:

DRAWING NUMBER



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

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On the basis of the general scope indicated or describ

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01/15/2023

WATER **DETAILS**

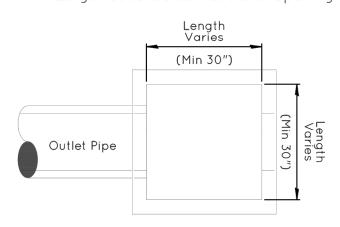
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DRAWING NUMBER

GENERAL OUTLET STRUCTURE NOTES

- 1) Use of a circular or rectangular orifice is at the discretion of the designer. The minimum opening height or diameter shall be 6", unless written approval of a smaller opening is provided during the stormwater review process. Openings shall be consolidated as much as is practicable while meeting the remaining requirements to reduce the potential for clogging. The minimum 6" dimension requirement does not apply to CPv or WQ orifice sizing. Coordinate with City of Fishers for minimum CPv / WQ orifice
- 2) If an overland emergency flow route cannot be created, the structure shall be sized to allow the open casting and outlet pipe to serve as a drop-inlet capable of carrying 125% of the peak inflow to the detention pond.
- 3) The maximum opening size for trash racks shall be 3" for outlets less than 24" in diameter or smaller than a 24" x 24" rectangle. Larger outlets shall have a 6" opening size.



Outlet Structure Top View

DESCRIPTION OF OUTLETS

Outlet 1: Extended Detention / Channel Protection Outlet The purpose of this outlet is to detain the flow and provide for settlement of suspended solids and to attenuate the outflow from the detention basin to meet the water quality or channel protection requirements of Ch. 8 of the STSM.

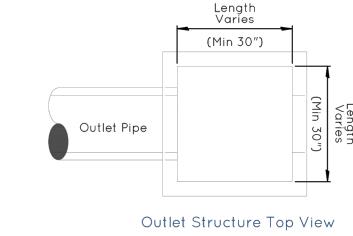
Outlet 2: Peak Flow Control Orifice (10-year)

The purpose of this outlet is to restrict the flow leaving the detention pond when the volume of runoff exceeds the water quality or channel protection volume. This outlet is typically used to control the release of runoff for events between the 2-year and 10-year events to meet peak flow control requirements. This outlet has an invert elevation at the elevation of when the water quality or channel protection is fully stored assuming no outflow from Outlet 1.

Outlet 3: Peak Flow Control Orifice (100-year)

The purpose of this outlet is to supplement Outlet 2 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.

The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



DESCRIPTION OF OUTLETS

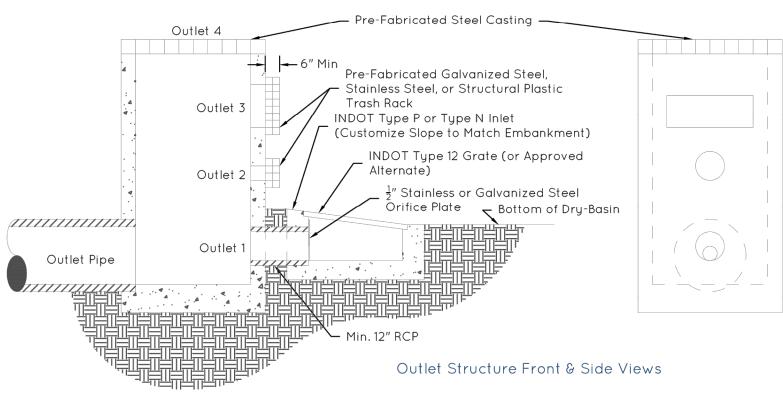
Outlet 1: Peak Flow Control Orifice (10-year) The purpose of this outlet is to control the release of runoff for events between the 2-year and 10-year storm events to meet peak flow control requirements per Ch. 3 and 6 of the STSM. This outlet has an invert elevation at the normal pool of a wet pond or below the bottom of a dry-bottom facility.

Outlet 2: Peak Flow Control Orifice (100-year)

The purpose of this outlet is to supplement Outlet 1 when the 100-year peak flow control requirements cannot be met using a single peak flow control orifice. This outlet typically has an invert elevation above the 10-year maximum water surface elevation.

Outlet 3: Emergency Overflow

The purpose of this outlet is to allow the outlet to convey flow downstream even if the peak flow control orifice(s) are completely blocked. It may also serve as a part of the emergency flood route in special circumstances.



—Crest Elevation (Outlet 4) = ____._

The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

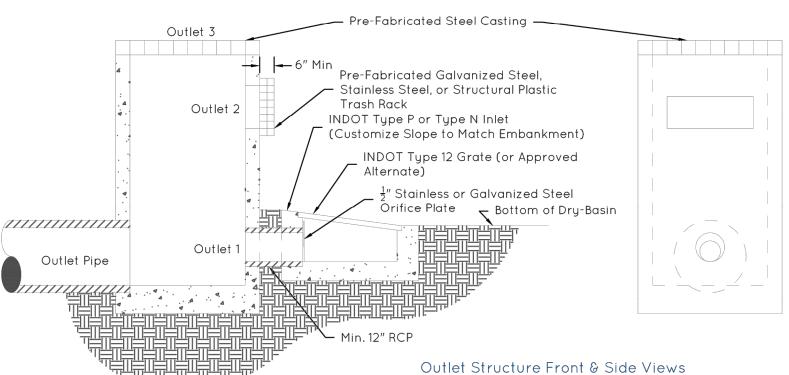
100-year Invert Elevation The elevation of the 100-year orifice is established by the maximum -(Outlet 3) = ____._ water surface elevation of the peak 10-year storm event. The orifice

size is established in conjunction with Outlet 2 to meet peak flow control rates and available storage requirements. - 10-year Invert Elevation The elevation of the 10-year orifice is established when the

calculated Channel Protection or Water Quality Volume is fully stored in the detention basin, assuming no outflow from the Extended Detention Outlet (Outlet 1).

-CPv / WQ Invert Elevation $\,$ This elevation is established below the bottom of the dry-bottom pond. Orifice size determined to drain CPv / WQ (if providing CPv or WQ) by storing between the inverts of Outlet 1 and Outlet 2 within 48 HRS

Note: Design data shall be filled-in for the indicated blanks (_____.__) on the construction plans.



—Crest Elevation (Outlet 3) = ____._ The rim crest elevation is established by the maximum water surface elevation of the 100-year storm event when the peak flow control requirements are met.

- 100-year Invert Elevation The elevation of the 100-year orifice is established by the maximum water surface elevation of the peak 10-year storm event. The orifice size is established in conjunction with Outlet 1 to meet peak flow control rates and available storage requirements.

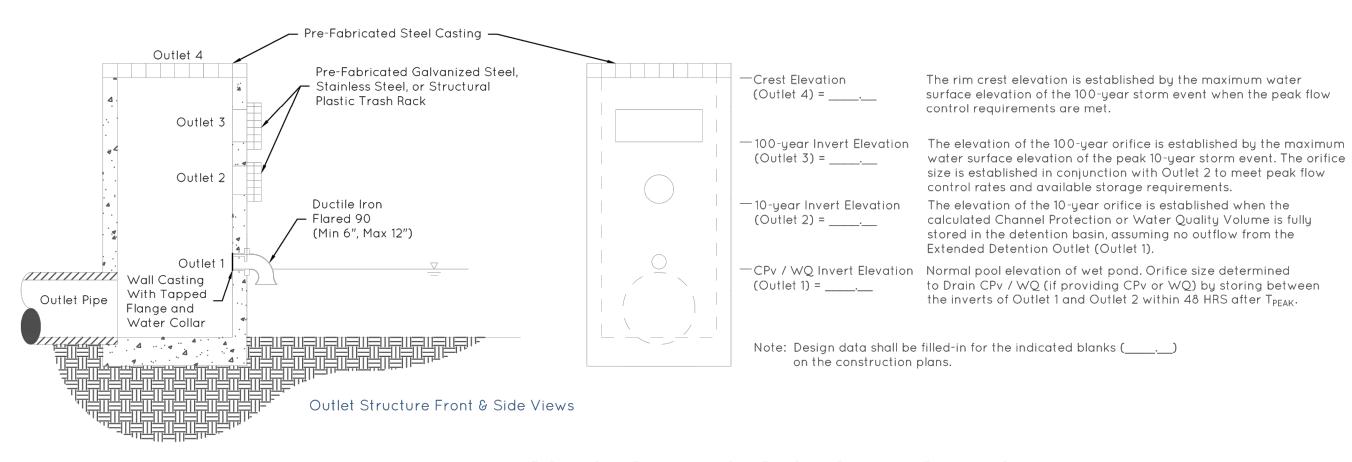
—10-year Invert Elevation

This elevation is established below the bottom of the dry-bottom pond. Orifice size is established to meet the peak flow control requirements of the 10-year storm event.

Note: Design data shall be filled-in for the indicated blanks (.) on the construction plans.

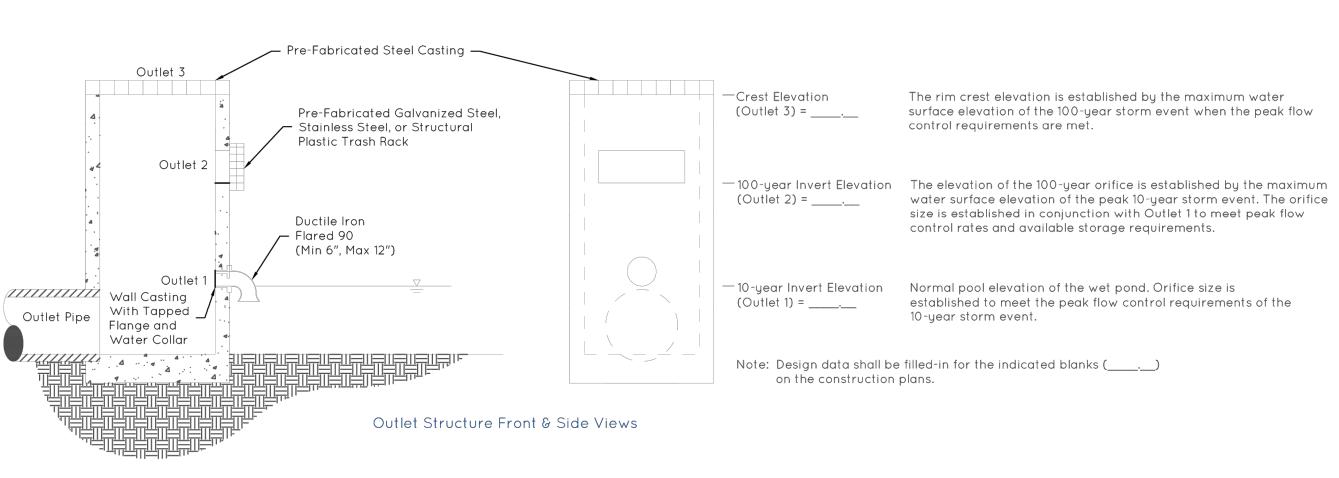
DRY-BOTTOM DETENTION BASIN OUTLET DETAILS -**COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN**

Not to Scale



WET-BOTTOM DETENTION BASIN OUTLET DETAILS -COMBINED PEAK FLOW AND CHANNEL PROTECTION / WATER QUALITY BASIN

Not to Scale



DRY-BOTTOM DETENTION BASIN OUTLET DETAILS -

PEAK FLOW CONTROL FACILITY (SINGLE USE)

Not to Scale

WET-BOTTOM DETENTION BASIN OUTLET DETAILS -PEAK FLOW CONTROL FACILITY (SINGLE USE)

Not to Scale

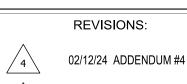


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	STANDARD CONSTRUCTION DETAILS						
17							
of	DETENTION BASIN - OUTLET						
29	CONTROL STRUCTURE DETAILS						

FISHERS ADDITIC

SCOPE DRAWINGS: These drawings indicate the general scope of the projecterms of architectural design concept, the dimensions of a building, the major architectural elements and the type work required for full performance and completion of the



03/01/24 ADDENDUM #6

ISSUE DATE | DRAWN BY | CHECKED BY

KDK

DRAWING TITLE:

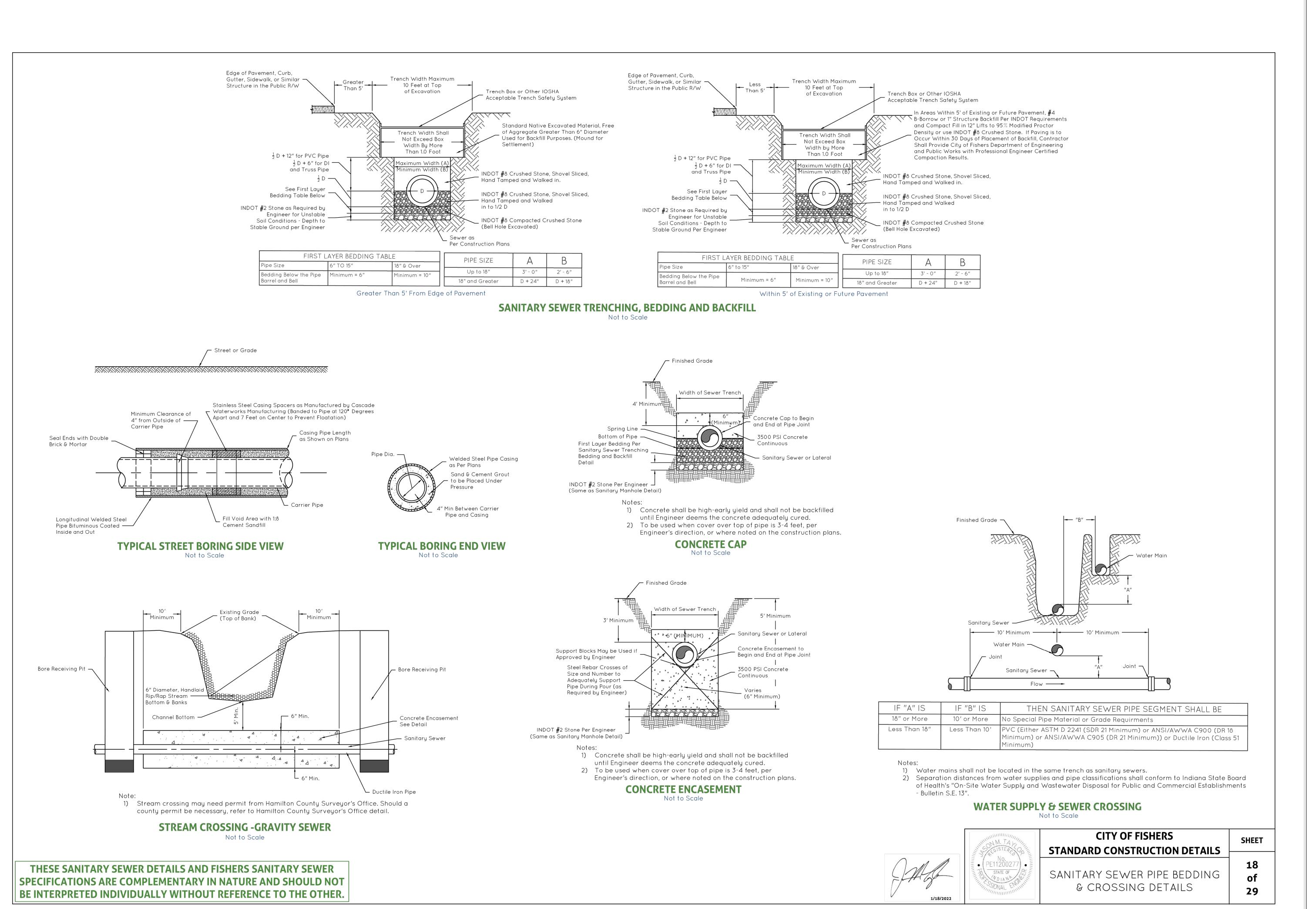
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WATER **DETAILS**

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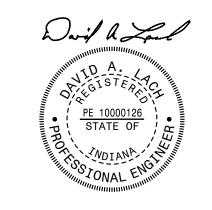
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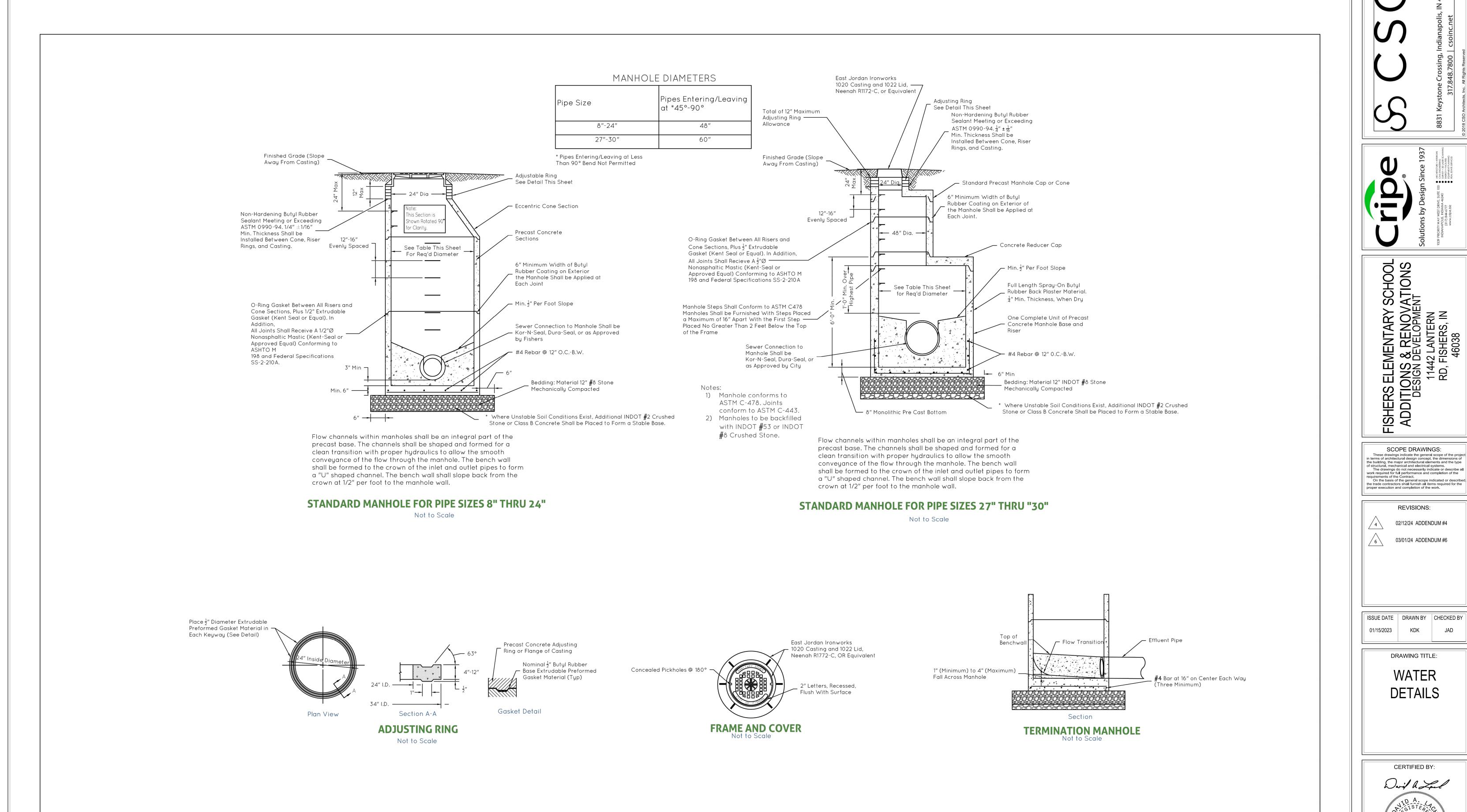
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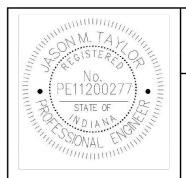


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THESE SANITARY SEWER DETAILS AND FISHERS SANITARY SEWER SPECIFICATIONS ARE COMPLEMENTARY IN NATURE AND SHOULD NOT BE INTERPRETED INDIVIDUALLY WITHOUT REFERENCE TO THE OTHER.





	CITY OF FISHERS
20 E	STANDARD CONSTRUCTION DETAILS
WEER •	SANITARY SEWER STRUCTURE

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19 of 29

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DRAWING NUMBER

SCOPE DRAWINGS:

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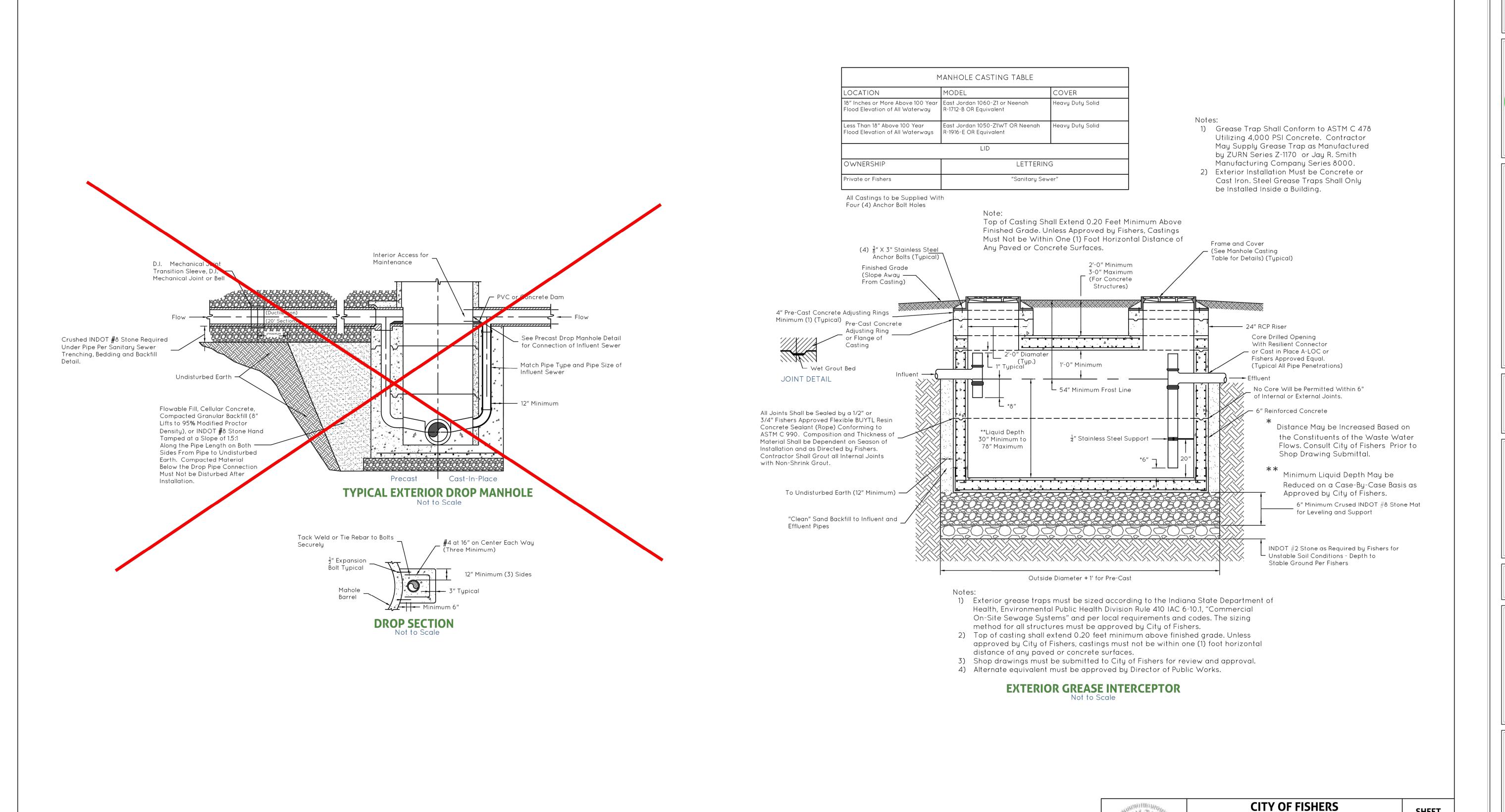
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DETAILS

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FISHERS ELEMENTARY SCHOOL
ADDITIONS & RENOVATIONS
DESIGN DEVELOPMENT
11442 LANTERN
RD, FISHERS, IN
46038

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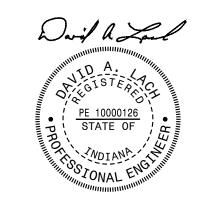
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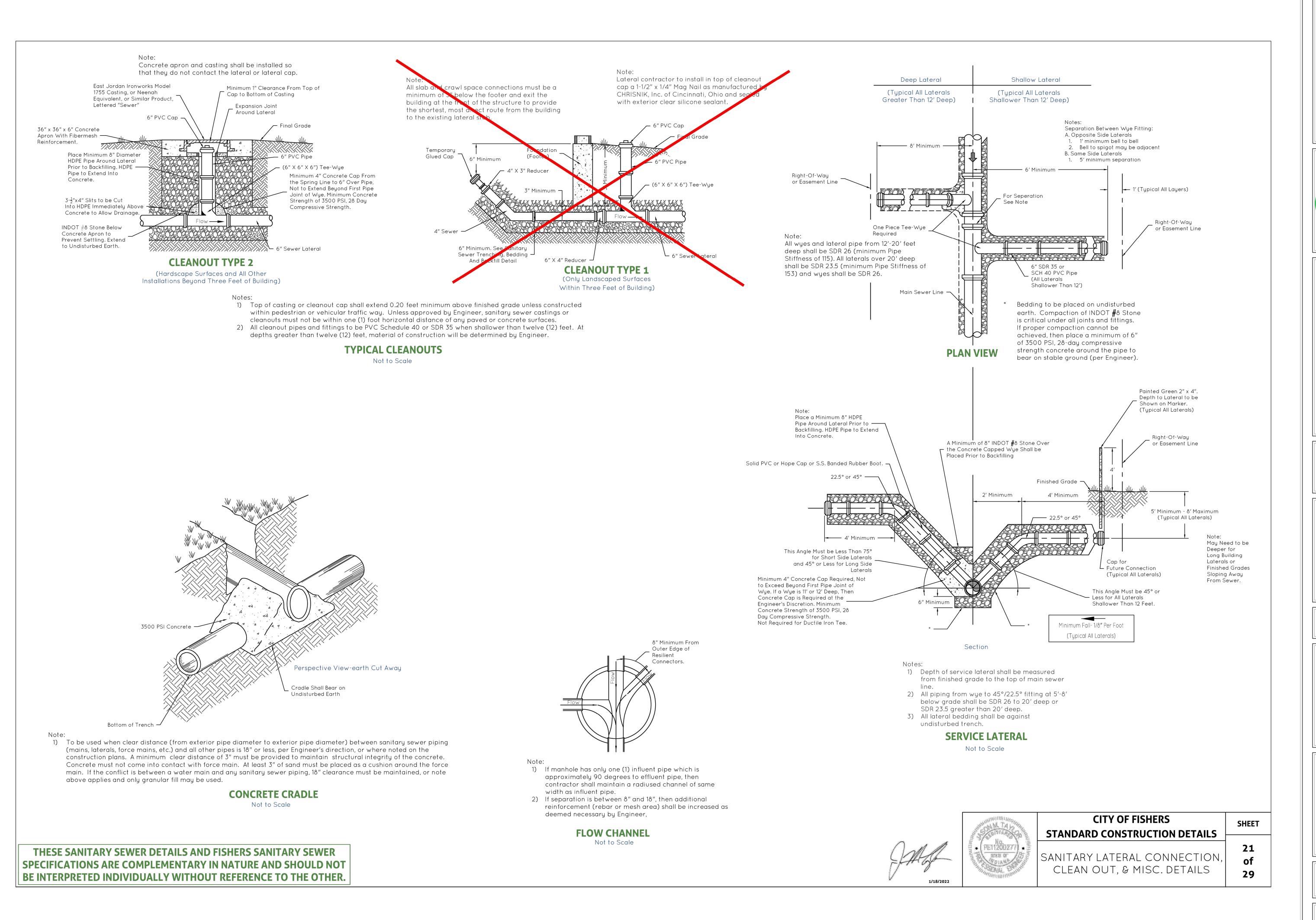
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STANDARD CONSTRUCTION DETAILS

SANITARY SEWER STRUCTURE

DETAILS

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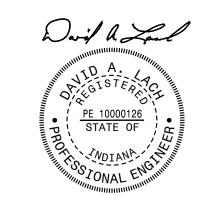
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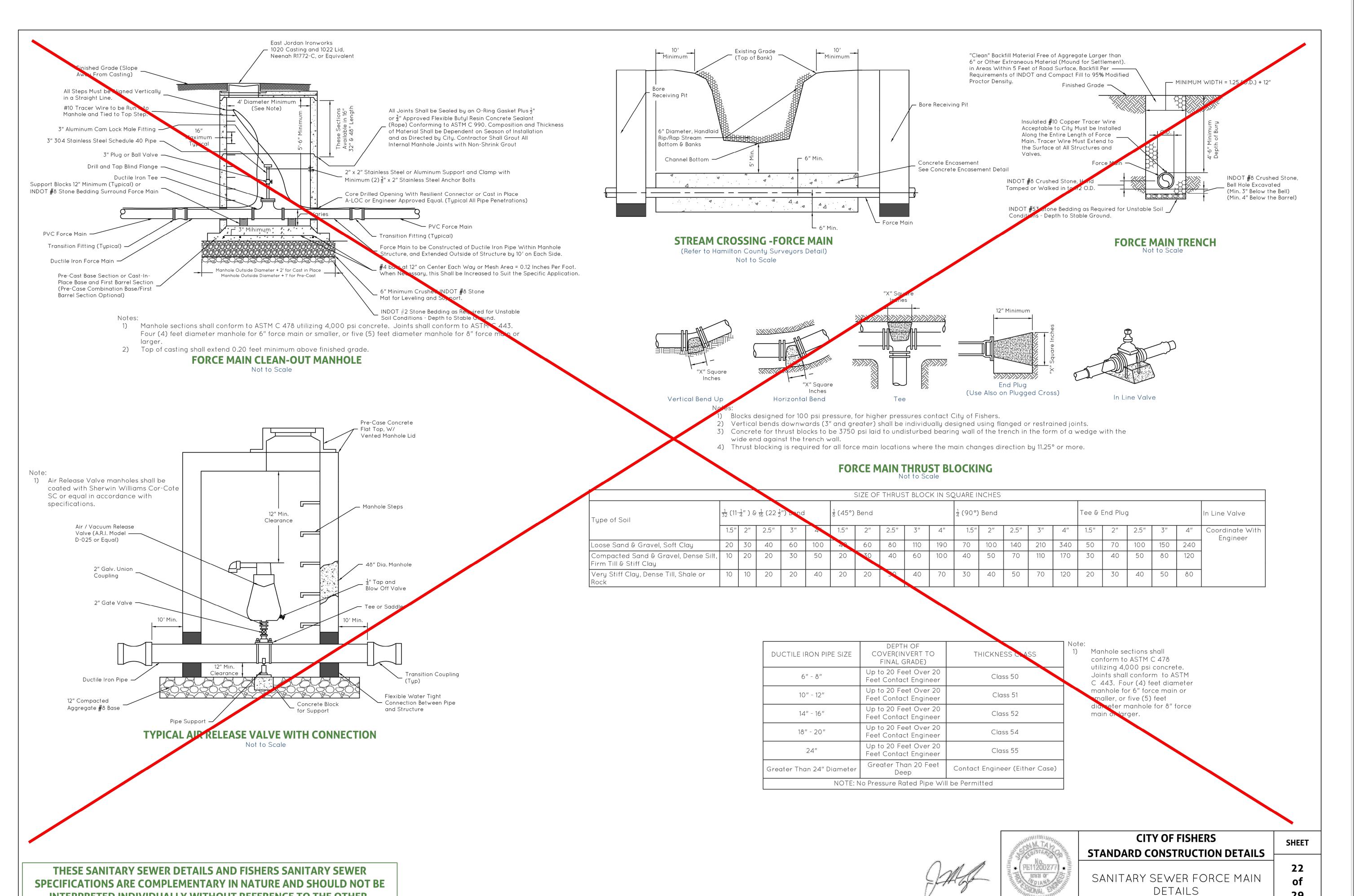
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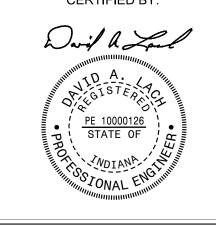
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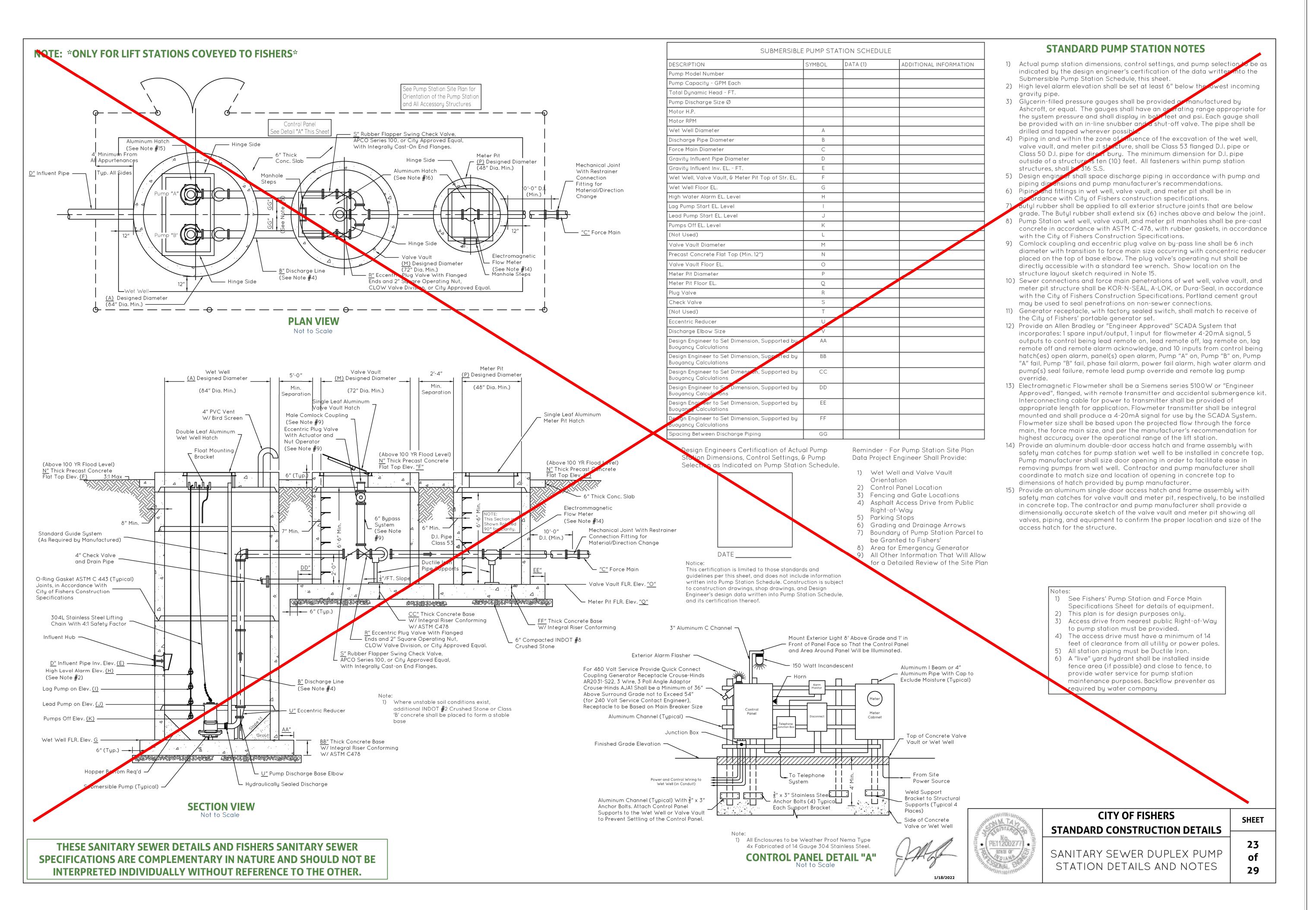
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8831 Keystone Crossing, Indianapolis, IN 46240

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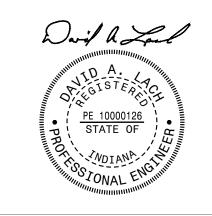
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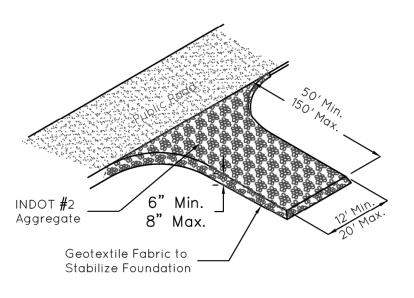
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GENERAL SWWP NOTES FOR INDIVIDUAL LOTS

- 1) All storm water quality measures, including erosion and sediment control, necessary to comply with the requirements for 327 IAC 15-5, Rule 5, City of Fishers, and/or general construction practices must be implemented in accordance with the plan and sufficient to satisfy Chapter 7 of the City of Fishers
- 2) Provisions for erosion and sediment control on individual building lots regulated under the original permit of a project site owner must include the
- 2)1) The individual lot operator, whether owning the property or acting as the agent of the property owner, shall be responsible for erosion and sediment control requirements associated with activities on individual lots.
- 2)2) Installation and maintenance of a stable construction site access.
- 2)3) Installation and maintenance of appropriate perimeter erosion and sediment control measures prior to land disturbance. 2)4) Sediment discharge and tracking from each lot must be minimized throughout the land disturbing activities on the lot until permanent stabilization
- 2)5) Clean-up of sediment must be redistributed or disposed of in a manner that is in compliance with all applicable statutes and rules.
- 2)6) Adjacent lots disturbed by an individual lot operator must be repaired and stabilized with temporary or permanent surface stabilization.
- 3) In accordance with Chapter 7 of the City of Fishers STSM, final stabilization of an individual lot project site is achieved when:
- 3)1) All land disturbing activities have been completed
- 3)2) The establishment, at a uniform density of seventy percent (70%) across one-hundred percent (100%) of the disturbed area, of vegetative cover or permanent non-erosive material that will ensure the resistance of the soil to erosion, sliding, or other movement.

CONSTRUCTION SEQUENCE FOR INDIVIDUAL LOTS

- 1) Clearly delineate areas of trees, shrubs, and vegetation that are to be undisturbed. To prevent root damage, the areas delineated for tree protection should be at least the same diameter as the crown.
- 2) Install perimeter silt fence at construction limits. Position the fence to intercept runoff prior to entering drainage swales.
- 3) Avoid disturbing drainage swales if vegetation is established. If drainage swales are bare, install erosion control blankets or sod to immediately stabilize. 4) Install appropriate inlet protection for all inlets on the property.
- 5) Install curb inlet protection, on both sides of the road, for all inlets along the property frontage and along the frontage of adjacent lots, or install temporary catch basin inserts in each inlet and frequently clean.
- 6) Install gravel construction entrance flush with the back of existing curb, extending from the street to the building pad.
- 7) Perform primary grading operations.
- 8) Contain erosion from any soil stockpiles created on-site with silt fence around the base.
- 9) Establish temporary seeding and straw mulch on disturbed areas.
- 10) Construct the home and install utilities.
- 11) Install downspout extenders once the roof and gutters have been constructed. Extenders should outlet to a stabilized area.
- 12) Re-seed any areas disturbed by construction and utilities installation with temporary seed mix that will be left inactive for seven (7) days.
- 13) Grade the site to final elevations. Add topsoil as needed to minimize erosion of underlying soil and to quickly establish grass.
- 14) Install permanent seeding or sod.

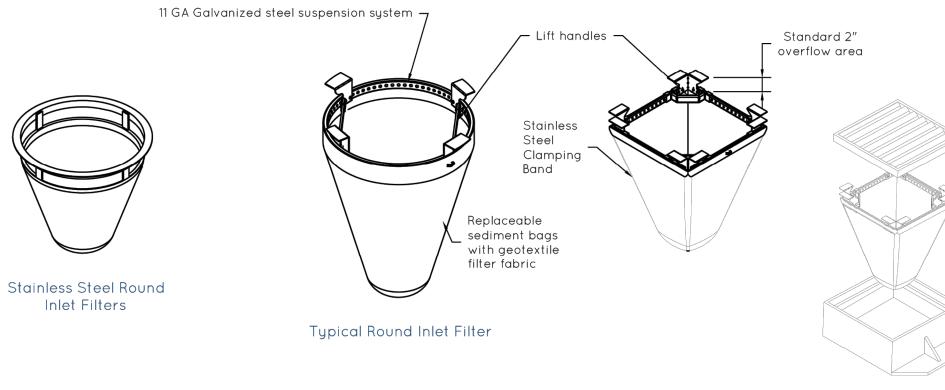


- 1. Must keep top of stone at road elevation.
- 2. Width to be adjusted to match wider entrance, if required.

Site Size	Entrance Width	Entrance Length	Stone Depth	
Less than 2 acres	12' min	50' min	6" min	
2 acres or more	20' min	150' min	8" min	

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

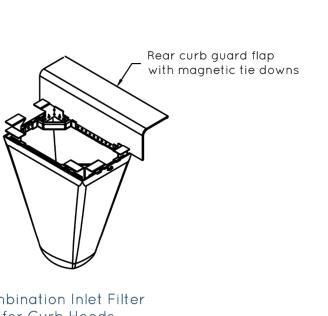
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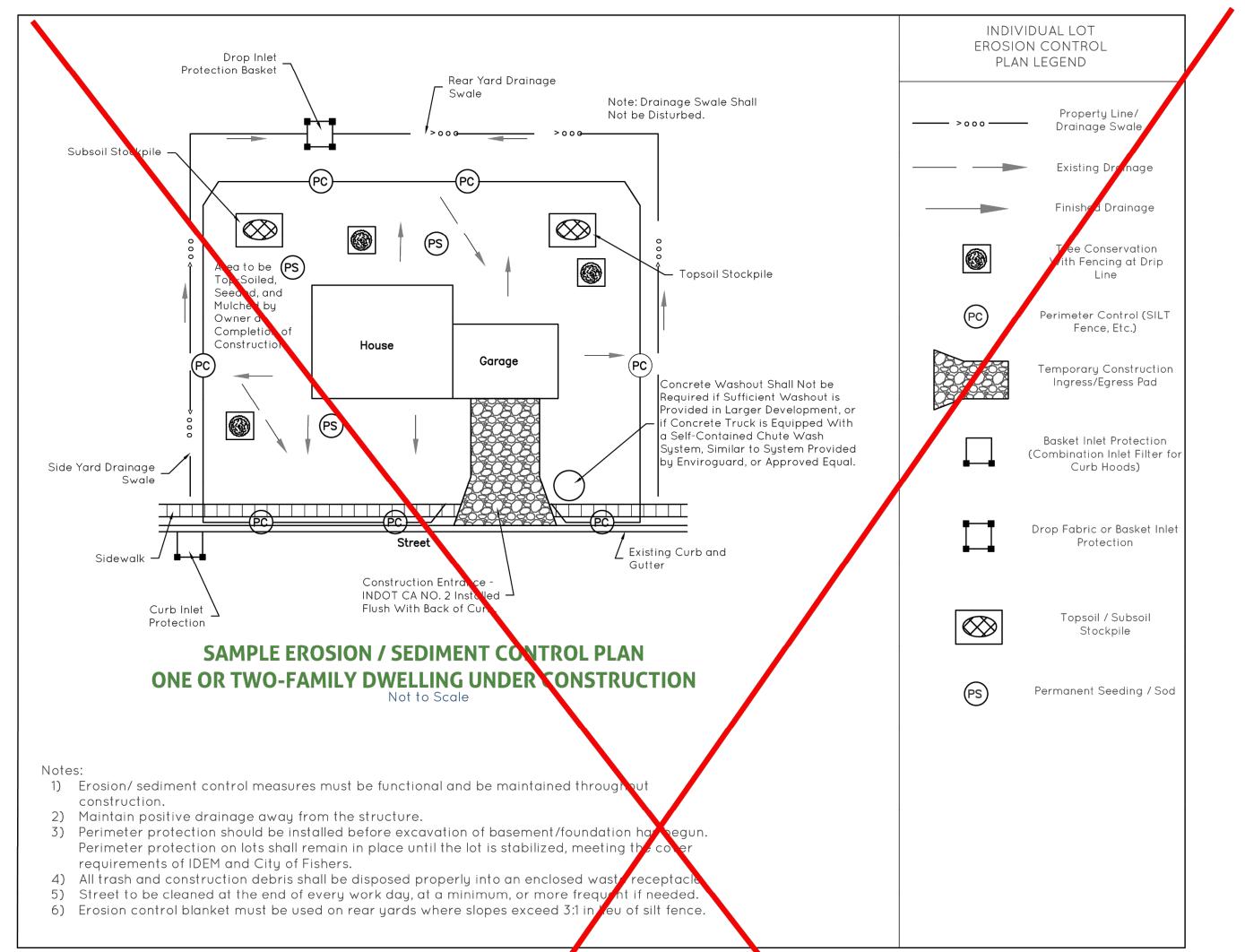
Typical Rectangular Inlet Filter

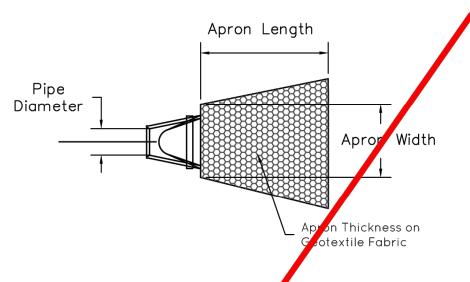
1) Measures to be used in accordance with manufacturer's stated installation and maintenance specifications, and limitations

> **BASKET INLET PROTECTION** Not to Scale



Combination Inlet Filter for Curb Hoods



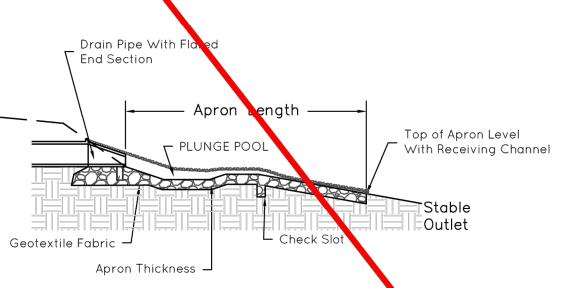


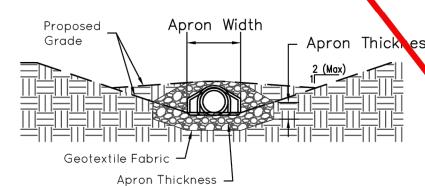


PIPE SIZE	AVG. RIPRAP DIAMETER	appon² width	APRON ³ LENGTH
8 in.	3 in.	2 to 3 ft.	5 to 7 ft.
12 in	5 in.	3 to 4 ft.	6 to 12 ft.
18 in.	8 in.	4 to 6 ft.	8 to 18 ft.
24 in.	10 in	6 to 8 ft.	12 to 22 ft.
30 in.	12 . .n.	8 to 10 ft.	14 to 28 ft.
36 in.	14 in.	10 to 12 ft.	16 to 32 ft.

1-For Larger or Higher Flows Consult a Registered Engineer

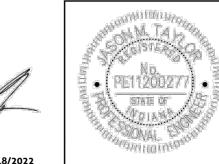
2-Apron Width of the Narrow End of Apron (Pipe or Channel Outlet) 3-Select Length Taking Into Consideration the Low Flow (Nor Pressure Head) or High Flow (Pressure Head) Conditions of the Culvert Pipe.





Apron Thickness = 1.2 Times the Max Stone Diameter for a D50 Stone Size of 15 Inches Larger Apron Thickness = 1.5 Times the Max Stone Diameter for a D50 Stone Size of 15 Inches or

ENERGY DISSIPATER (OUTLET PROTECTION)



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CITY OF FISHERS	
STANDARD CONSTRUCTION DETAILS	-

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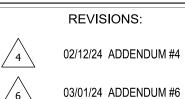
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SCOPE DRAWINGS: work required for full performance and completion of the On the basis of the general scope indicated or descr



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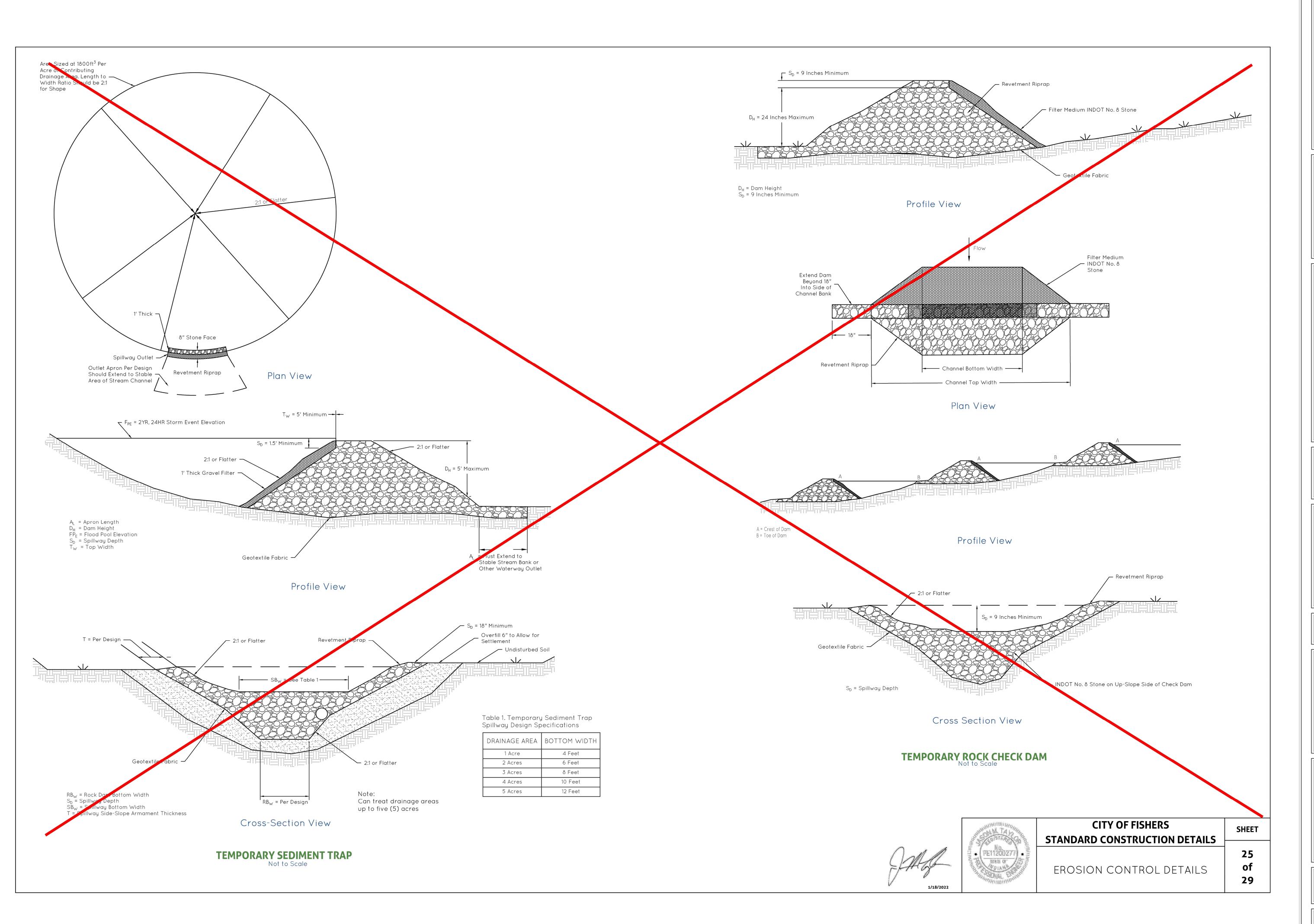
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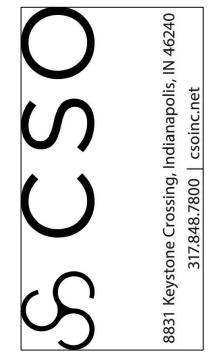
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WATER **DETAILS**

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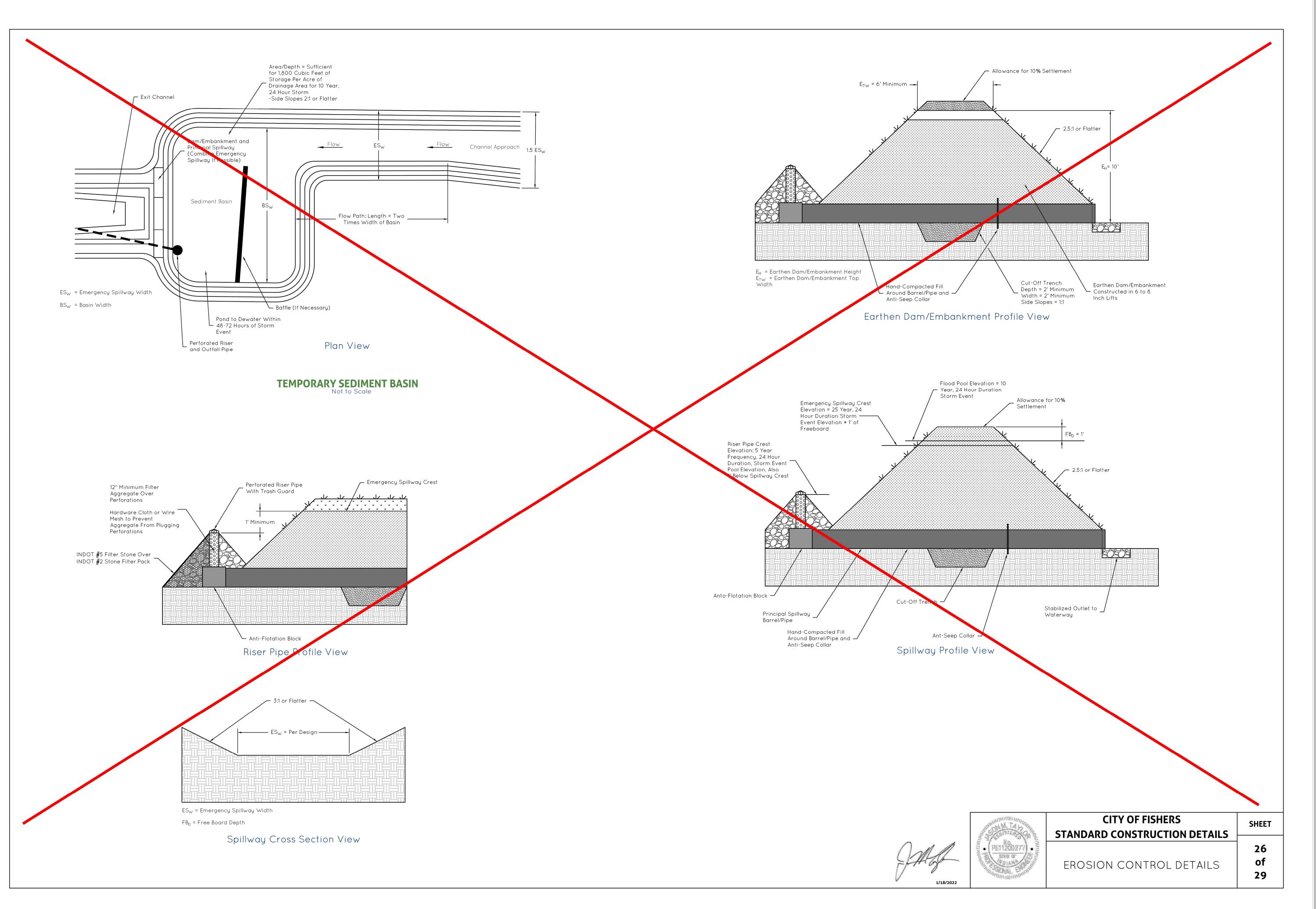
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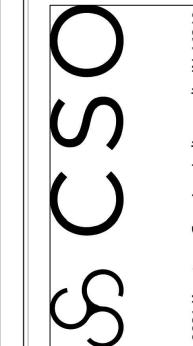
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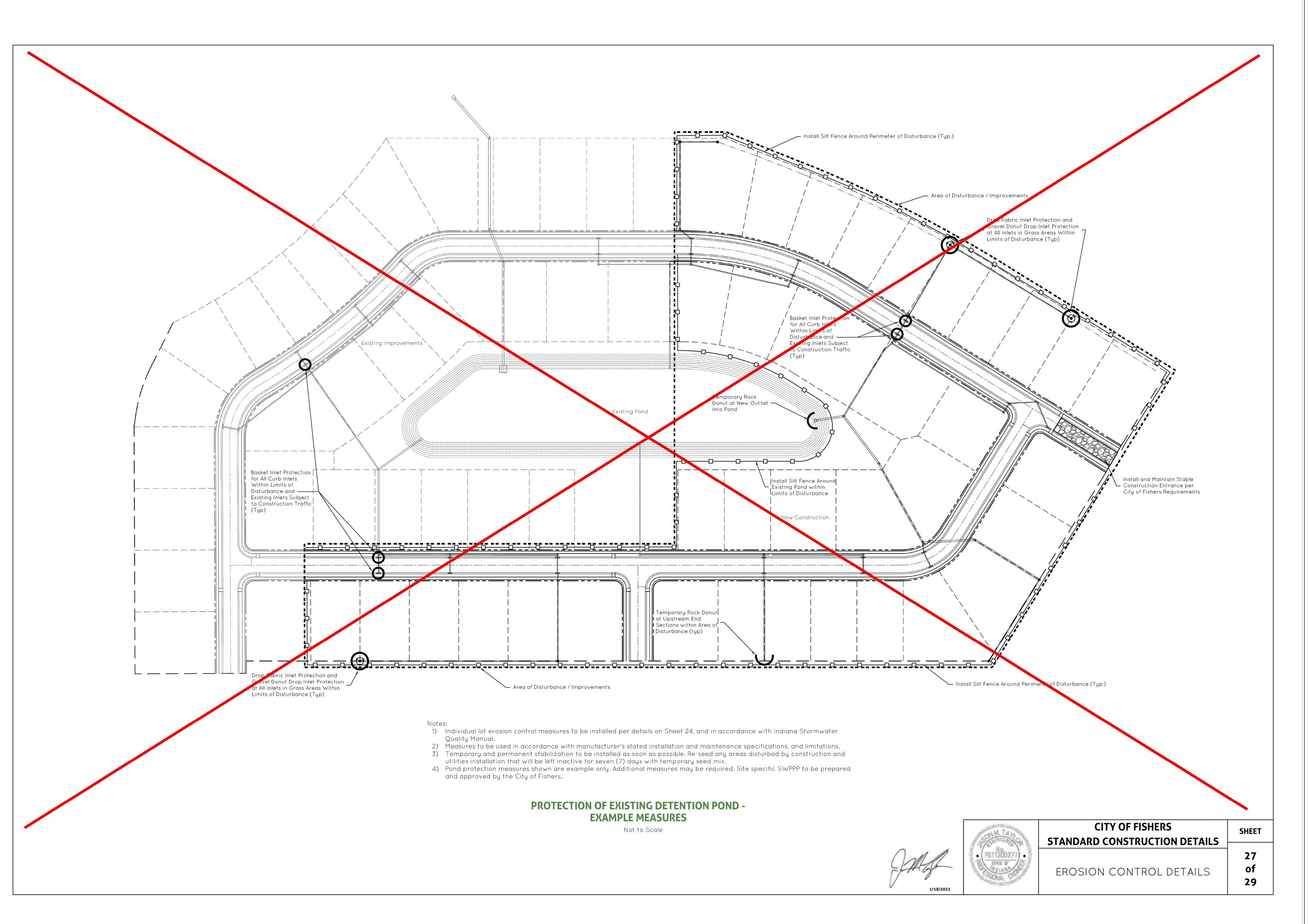
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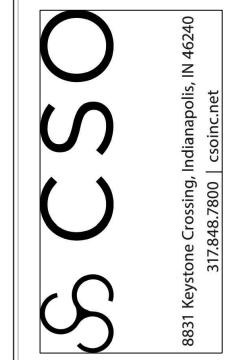
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Solutions by Design Since 1937
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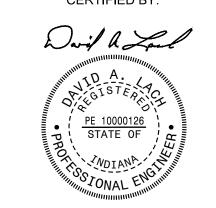
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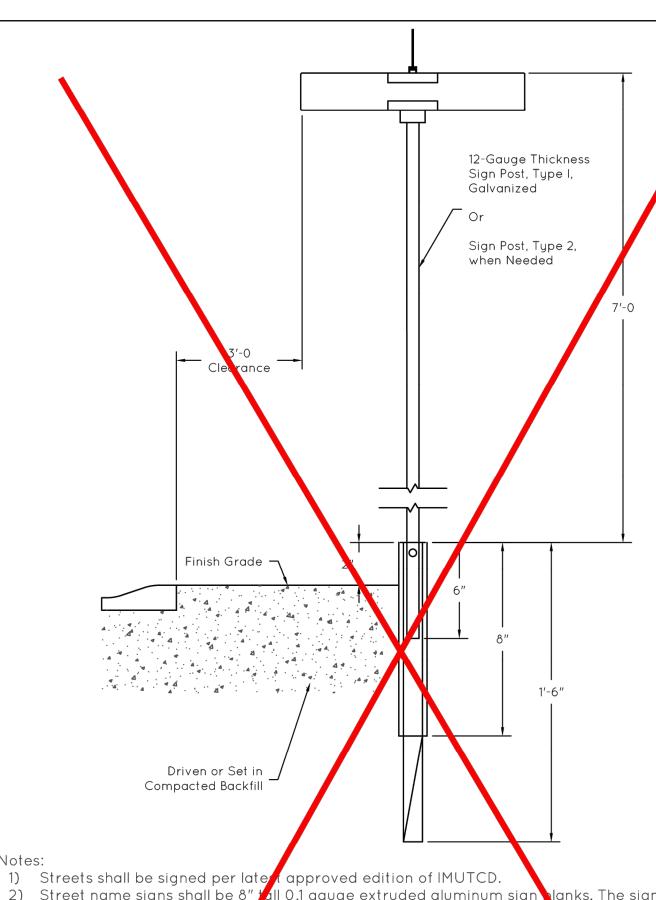
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- 2) Street name signs shall be 8" fall 0.1 gauge extruded aluminum sign clanks. The sign face material shall be Diamond grade retroreflective green background with white letters and shall be mix-cased in accordance with the IMUT
- 3) All public regulatory street signs shall be diamond grade retroreflective Lackground, including letters
- 4) Font and letter height stall be in accordance with IMUTCD and FHWA Standard Highway Signs. 5) Street signs shall have rounded corners and be tall enough to accommodate the above noted minimum
- 6) Supr-lok cap shall be model #91UX-NU180 or equal. Supr-lok cross shall be model #990X or equal.
 7) Street name signs shall be mounted on Type 1 or 2 12-gauge steel galvanized post. Whichever is
- required according to INDOT Standard Drawings.
- 8) Street name signs on roundabouts shall be on decorative $2\frac{3}{8}$ " round post with finial, with Fishers Green finish, and with Z238 aluminum interlocking bracket set by Hall Signs or approved equal.
- 9) Private streets must include a vertical "PVT" symbol in 3" white lettering to the left of the street name. 10) Public street signs must include City of Fishers logo (does not have to be multi-colored) the left of
- the street name. 11) Optional white privately owned/maintainted signs on public roads:
- 11)1) Whate retroreflective background with black font may be used for street name signs, however, a intenance agreement must be signed and submitted as these are considered privately owned nd maintained signs. These signs will not be maintained by the City.
- The City of Fishers logo is still required to the left of the street name.
- 11)3) No other logo or picture is permitted otional black/green or decorative post/poles on public roads:
- Any painted or coated street name or regulatory sign post/pole is permitted; however, a maintenance agreement must be signed and submitted as these are considered privately owned

and maintained posts/poles. These posts/poles will not be maintained by the City.

STREET NAME AND PUBLIC STREET SIGNS

Not to Scale

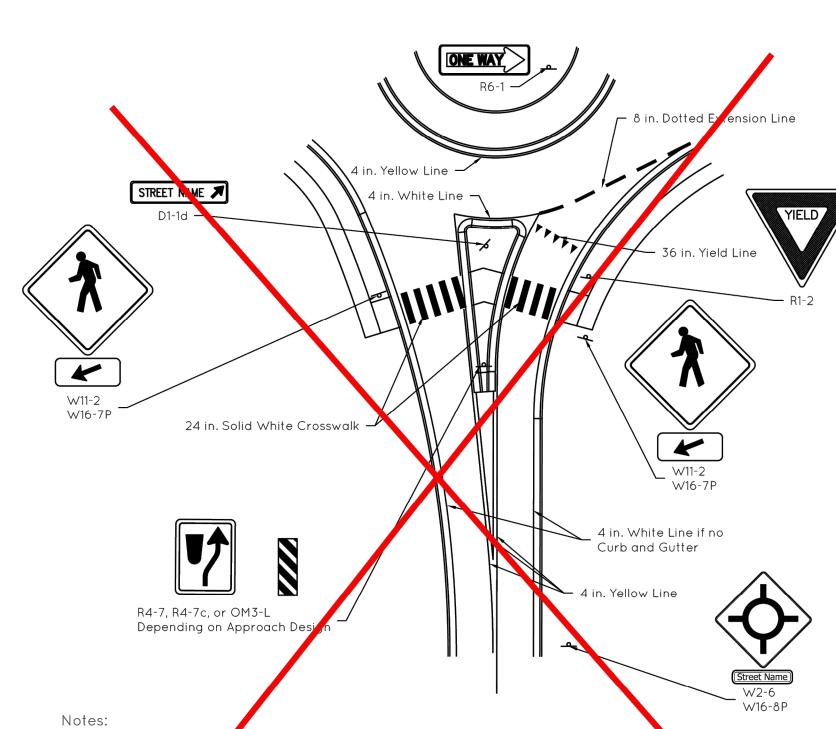


Public street signs must include City of Fishers togo (white lettering and green background) to the left of the treet name. The logo size should be based on the following table

Sign Lettering Height	Max Logo Dimension
12"	10"X10"
9"	7"X7"
8"	6"X6"
6"	4"X4"
4"	3"X3"

CITY LOGO FOR STREET SIGNS

Not to Scale



1) Signs and striping shown for only one leg of single-lane roundabout.

Fire Hydrant —

Centerline of

RPM (Typ.) \neg

-- 12:1 Taper ---

Detail 1

Notes:

Roadway or Parking Lot Drive Aisle

RAISED PAVEMENT MARKERS FOR HYDRANTS

Not to Scale

1) Width greater than 3 feet requires 4 RPMs per Detail 1. Width less than 3

3) RPMs on top of concrete shall be epoxied and RPMs in pavement shall be grooved and epoxied according to manufacturer specifications.

RAISED PAVEMENT MARKERS

Not to Scale

feet requires 2 RPMs per Detail 2 centered on width of median. 2) RPMs shall be yellow and Ennis Flint model 101LP or approved equal.

- 2) Striping and signs indicated may be optional per the latest IMUTCD, but shall be required for all roundabouts designed in the City of Fishers unless prior approval has been given by the Dept. of
- 3) All stripin shall be thermoplastic on asphalt pavement and multi-component on concrete
- striping on concrete pavement shall have black contrast border
- post heights and lateral offsets shall be in accordance with latest IMUTCD guidance. No-4a
- signs shall not exceed 4 feet from bottom of sign to edge of circulatory roadway traveled way.

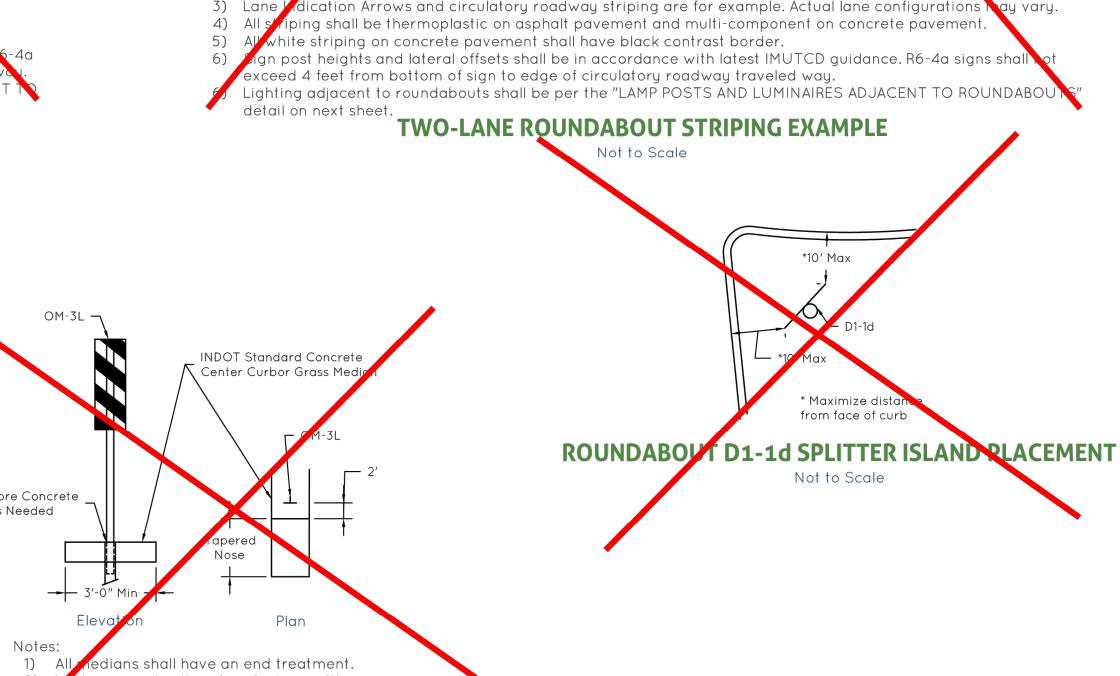
 6) Aghting adjacent to roundabouts shall be per the "LAMP POSTS AND LUMINAIRES ADJACENT TO ROUNDABOUTS" detail on next sheet.

SINGLE-LANE ROUNDABOUT STRIPING EXAMPLE

12:1 Taper →

Detail 2

Not to Scale



1) Signs and stiping shown for only one leg of multi-lane roundabouts.

2) Striping and signs indicated may be optional per the latest IMUTCD, but shall be required for all hundabouts

 $m{r}$ in the City of Fishers unless prior approval has been given by the Dept. of Engineering.

STREET NAME

24 in. Solid White Crosswalk —

ONLY to be used in accordance with latest IMUTCD guidance

4 in. Solid W

Core Concrete as Needed dians greater than four feet in width may contain approved landscaping or

> **MEDIAN END TREATMENT** Not to Scale





CITY OF FISHERS
STANDARD CONSTRUCTION DETA
SIGN, PAVEMENT MARKING A
RPM DETAILS

^{*} Maximize dist

Not to Scale

from face of curb

– 8 in. Dotted White

4 in. Solid White

(If no Curb and Gutter)

AILS 28 AND of 29

SHEET

FISHERS ELEME ADDITIONS & DESIGN DE

SCOPE DRAWINGS:

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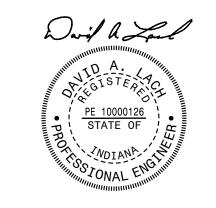
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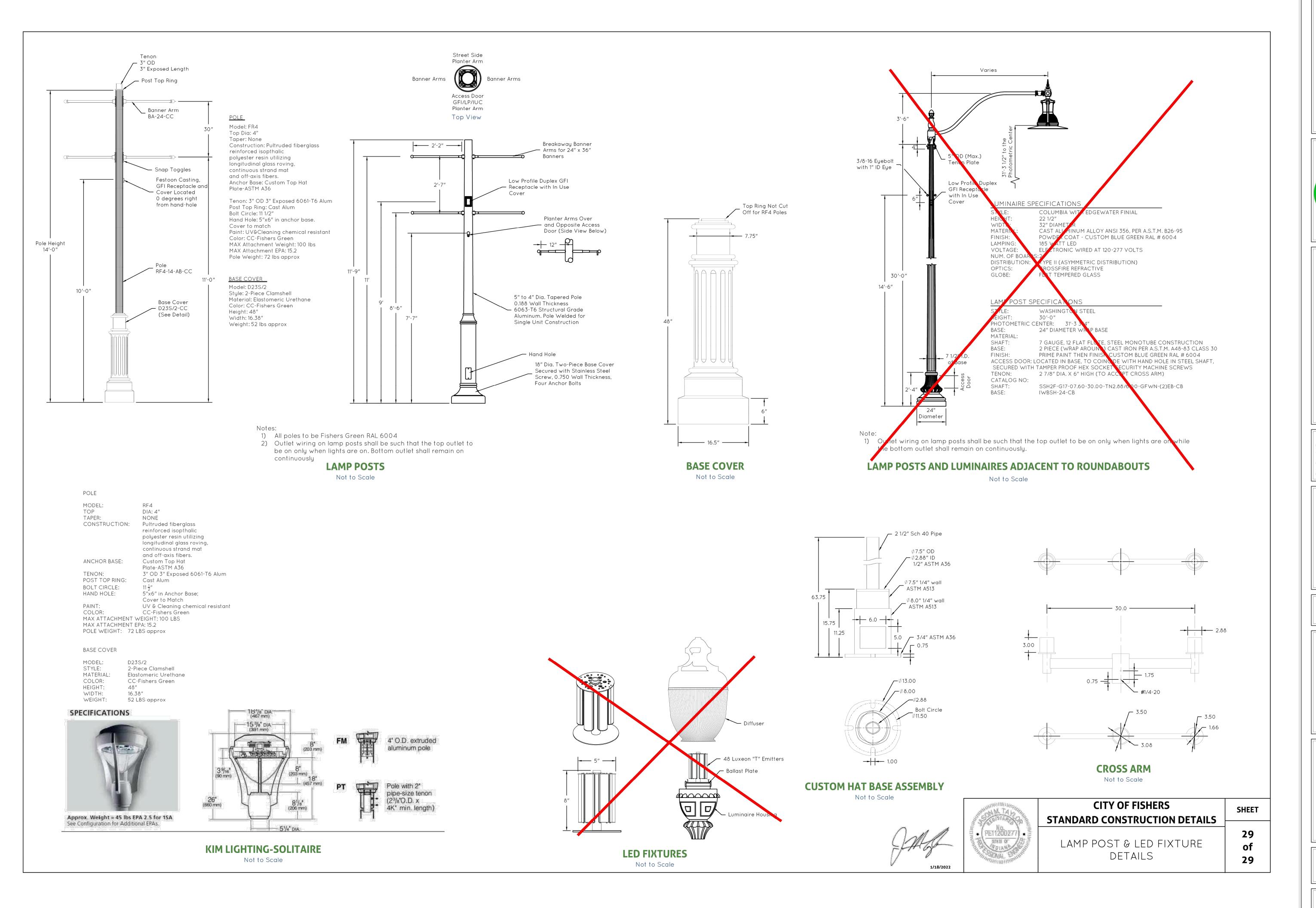
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