ADDENDUM NO. 3

September 16, 2024

HANOVER COMMUNITY SCHOOLS – HIGH SCHOOL IMPROVEMENTS AT BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated August 28, 2024 by Gibraltar Design. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 3-1 and attached Addendum No. 3 from Gibraltar Design dated September 13, 2024 and consisting of 1 page and 9 Drawings.

A. SPECIFICATION SECTION 00 31 00 - INDIANA BID FORM

1. **Replace:**

   The Bid Form with the attached revised Bid Form.

B. SPECIFICATION SECTION 01 23 00 - ALTERNATES

1. **Add:**

   Alternate No. 5: State the cost to provide synthetic turfs manufactured by Field Turf as indicated on the Construction Documents and Specifications, if not already included in your Base Bid.

ADDENDUM THREE

Addendum Three (AD.03) to the drawings and specifications prepared by Gibraltar Design and The Skillman Corporation for **Hanover CSC High School Baseball and Softball Fields and Related Work** for Hanover Community School Corporation, Cedar Lake, Indiana.

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

SPECIFICATIONS

1. **None**

DRAWINGS

2. **Sheets C200, C201, and C202**
   A. Modified Keynote Description and graphics update.
3. **Sheet C303**
   A. Better definition for grading revisions on Alternate Scope at Regional Detention Pond.
4. **Sheets C400, C401, and C402**
   A. Modified Keynotes, revision for drainage system to be per Delegated Design, and updated graphics.
5. **Sheet C800**
   A. Deletion of a couple of drainage details that no longer apply.
6. **Sheet C903**
   A. Revised Notes to comply the Town of Cedar Lake.
   B. Inclusion of Notes B-C to comply with the Town of Cedar Lake.

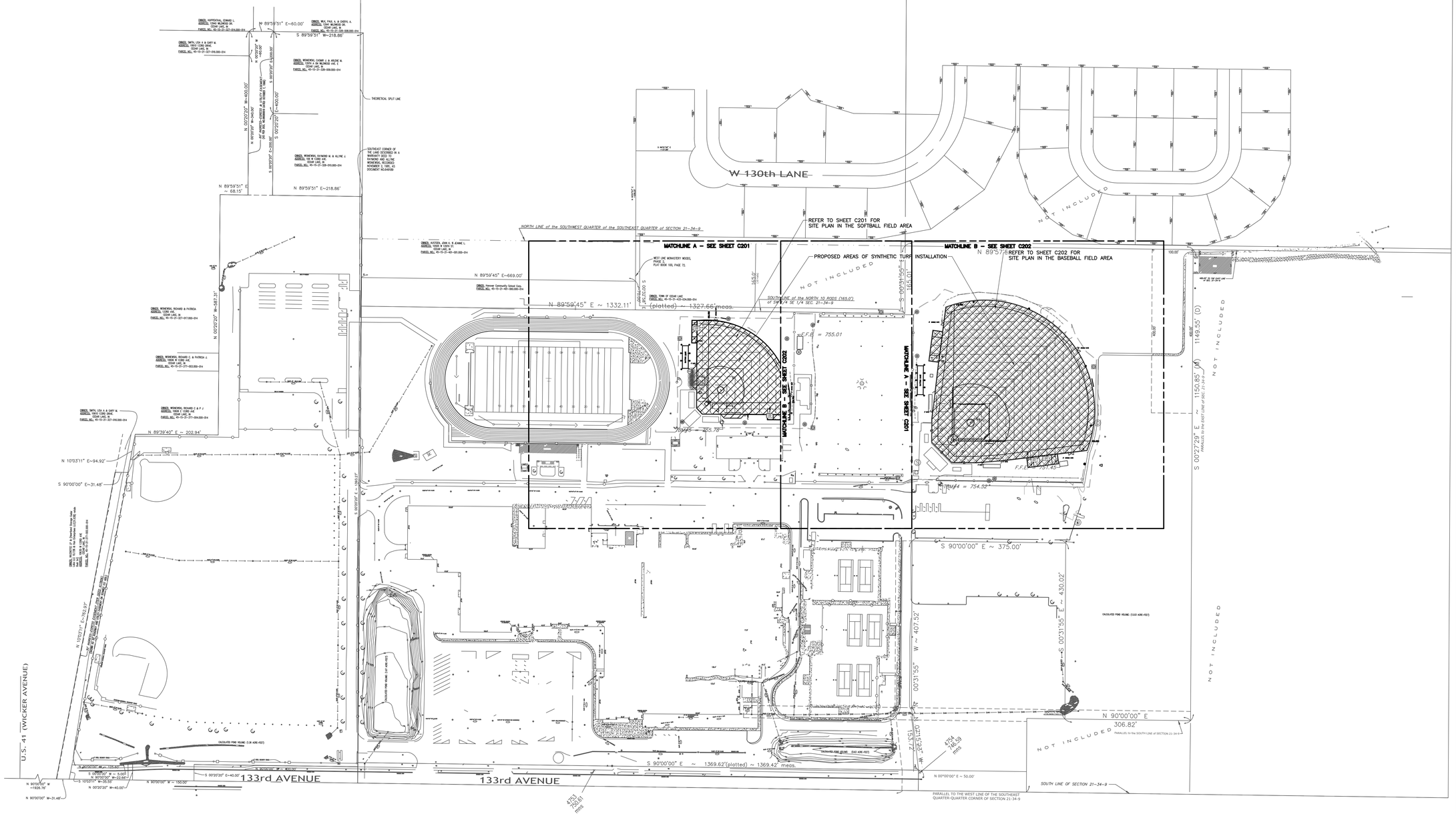
Pages 1, inclusive, and Nine (9) Full-Size Drawings, constitute the total makeup of **Addendum Three**.

GIBRALTAR DESIGN

Joseph P. Briggs

Y:\23144 Hanover CSC - HS Baseball Softball Fields and Related Work\Specs\Addendum 3\AD03.doc

NORTH



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PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
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Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-144
DATE 08/28/24
COORDINATED BY AMR
DRAWN BY SRD
CHECKED BY AMR

AARON C. HUNT REGISTERED № PE10300058 STATE OF INDIANA PROFESSIONAL ENGINEER
Aaron C Hunt 8/28/2024

REVISIONS

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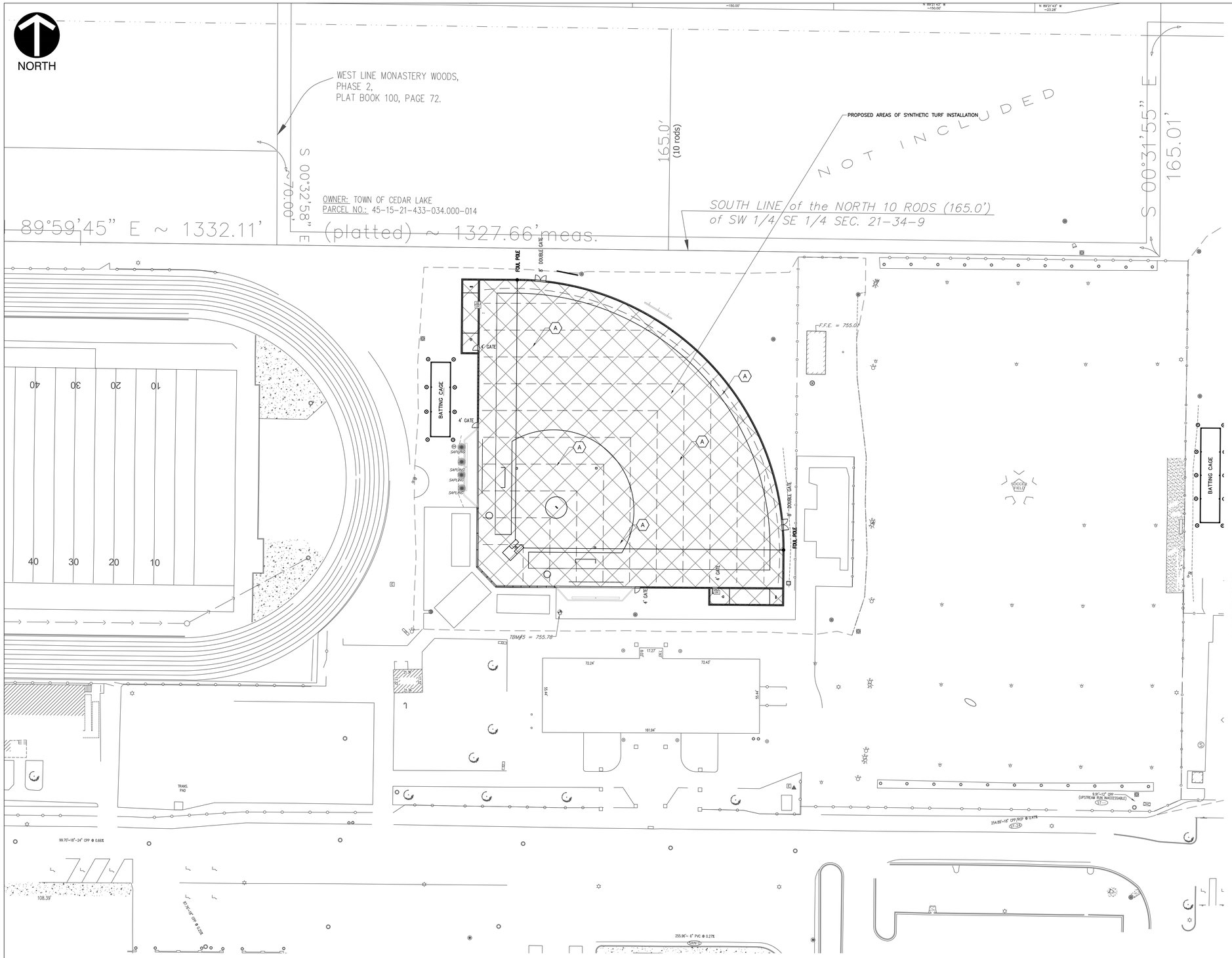
DRAWING
OVERALL SITE PLAN

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET
C200



GENERAL SITE LAYOUT NOTES:

1. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
2. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES, INCLUDING IRRIGATION LINES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES, INCLUDING IRRIGATION SLEEVING, PRIOR TO INSTALLATION OF PAVED SURFACES.
4. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS A (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
5. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
6. SITE DIMENSIONS SHOWN ARE TO THE FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
7. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.
9. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF VINCENNES. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION/DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.

GENERAL SITE NOTES:

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
5. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
6. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
7. BEFORE INSTALLATION OF STORM OR SANITARY SEWER, OR OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.

DRAINAGE KEY NOTES

(A) SYNTHETIC TURF. SEE DETAIL ON SHEET C802. 6" OF #8 WASHED STONE SHALL BE INCLUDED UNDER THE TURF STONE SECTION.

SCALE IN FEET
0 30' 60'

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DRAWING
SOFTBALL SITE PLAN

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET
C201

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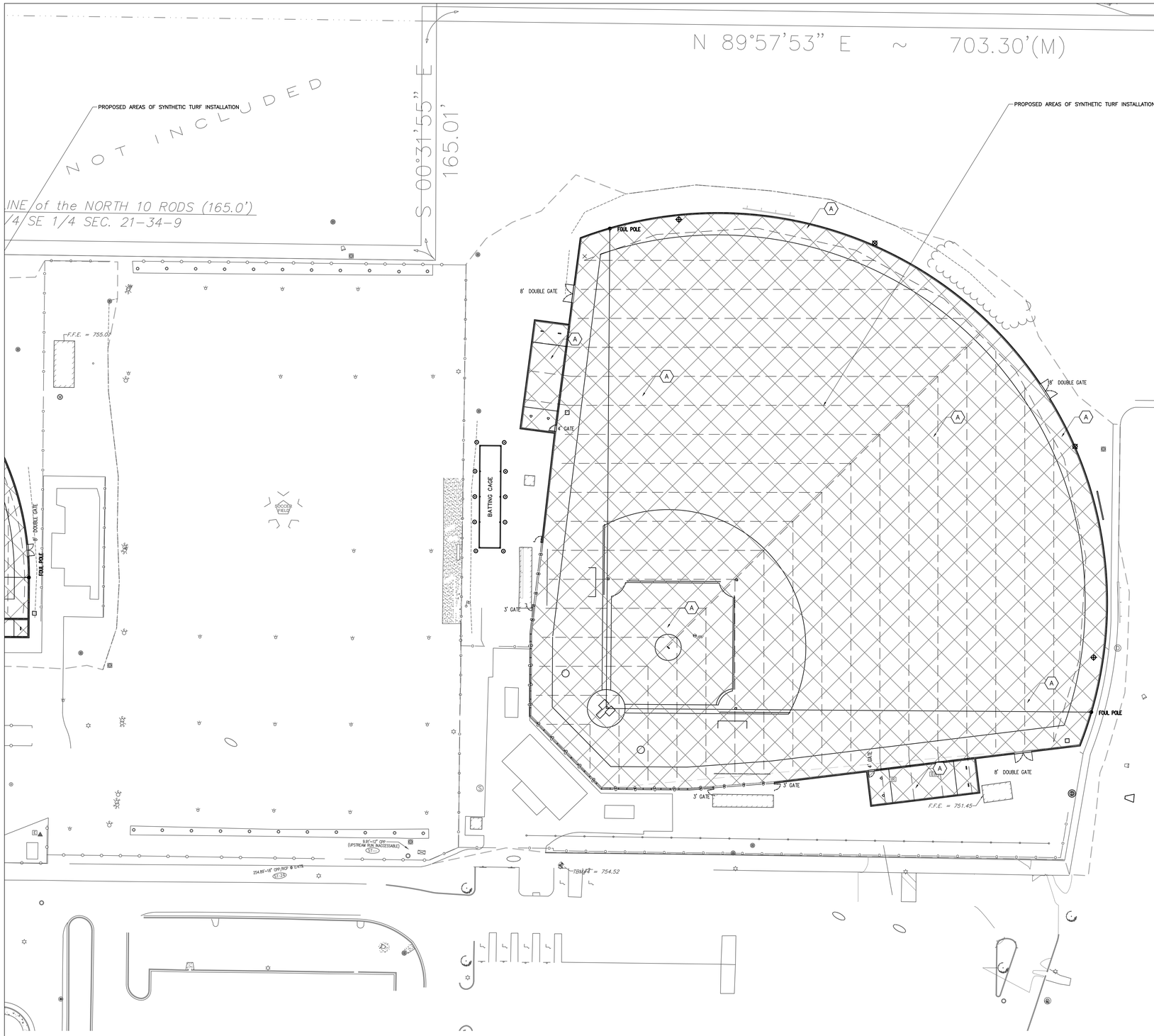

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BASEBALL SITE PLAN

PROJECT
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SHEET
C202

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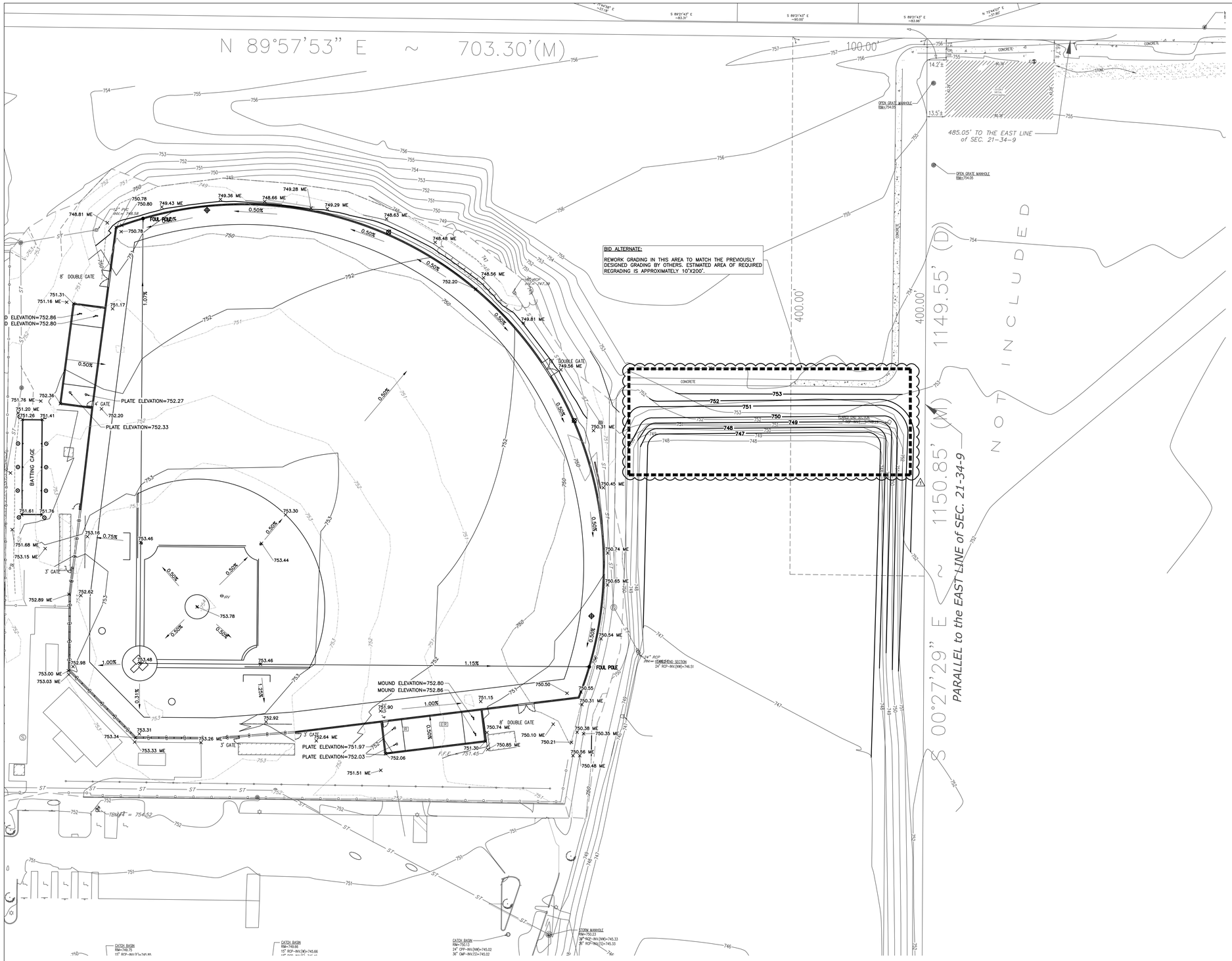

GENERAL GRADING NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDER CUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
3. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTURBED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (6" MINIMUM). PAVEMENT SLOPES ACROSS ACCESSIBLE PARKING STALLS AND ADJOINING ACCESS AISLES SHALL BE MAXIMUM 2%.
5. ALL EMBANKMENT SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
6. ALL AREAS NOT PAVED SHALL BE STABILIZED IN ACCORDANCE WITH THE EROSION CONTROL PLAN, UNLESS NOTED OTHERWISE.
7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
8. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
9. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
10. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
11. ALL STORM STRUCTURE CASTINGS MUST BE LABELED "NO DUMPING, DRAINS TO WATERWAY".
12. ALL FILL SHALL BE FORMED FROM MATERIAL FREE OF VEGETABLE MATTER, RUBBISH, LARGE ROCK, AND OTHER DELETERIOUS MATERIAL PRIOR TO PLACEMENT OF FILL. A SAMPLE OF THE PROPOSED FILL MATERIAL SHOULD BE SUBMITTED TO GEOTECHNICAL TESTING CONTRACTOR FOR APPROVAL. THE SURFACE OF EACH LAYER WILL BE APPROXIMATELY HORIZONTAL BUT WILL BE PROVIDED WITH SUFFICIENT LONGITUDINAL AND TRANSVERSE SLOPE TO PROVIDE FOR RUNOFF OF SURFACE WATER FROM EVERY POINT. THE FILL MATERIAL SHOULD BE PLACED IN LAYERS NOT TO EXCEED EIGHT (8) INCHES IN LOOSE THICKNESS AND SHOULD BE SPRINKLED WITH WATER AS REQUIRED TO SECURE SPECIFIED COMPACTIONS. EACH LAYER SHOULD BE UNIFORMLY COMPACTED BY MEANS OF SUITABLE EQUIPMENT OF THE TYPE REQUIRED BY THE MATERIALS COMPOSING THE FILL. UNDER NO CIRCUMSTANCES SHOULD A BULLDOZER OR SIMILAR TRACKED VEHICLES BE USED AS COMPACTING EQUIPMENT. MATERIAL CONTAINING AN EXCESS OF WATER SO THE SPECIFIED COMPACTION LIMITS CANNOT BE ATTAINED SHOULD BE SPREAD AND DRIED TO A MOISTURE CONTENT THAT WILL PERMIT PROPER COMPACTION. ALL FILL SHOULD BE COMPACTED TO THE SPECIFIED PERCENT OF THE MAXIMUM DENSITY OBTAINED IN ACCORDANCE WITH ASTM DENSITY TEST D-1557 (95 PERCENT OF MAXIMUM DRY DENSITY BELOW PAVEMENTS). SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THAT THE SPECIFIED COMPACTION LIMITS ARE NOT OBTAINED; THE AREAS REPRESENTED BY SUCH TESTS SHOULD BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED LIMITS ARE REACHED.

GRADING LEGEND:

800	PROPOSED INDEX CONTOUR
798	PROPOSED INTERMEDIATE CONTOUR
	PROPOSED DRAINAGE SWALE
	PROPOSED GRADE BREAK
	PROPOSED STORM SEWER LINE
	PROPOSED UNDERDRAIN
766.90	PROPOSED SPOT ELEVATION

ABBREVIATIONS:
TC = TOP OF CURB
BC = BOTTOM OF CURB
TW = TOP OF WALL
BW = BOTTOM OF WALL
TR = TOP OF RAMP
BR = BOTTOM OF RAMP
ME = MATCH EXISTING
RIM = RIM ELEVATION
FL = FLOW LINE

SCALE IN FEET
0 30' 60'

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ALTERNATE GRADING REWORK

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SHEET
C303

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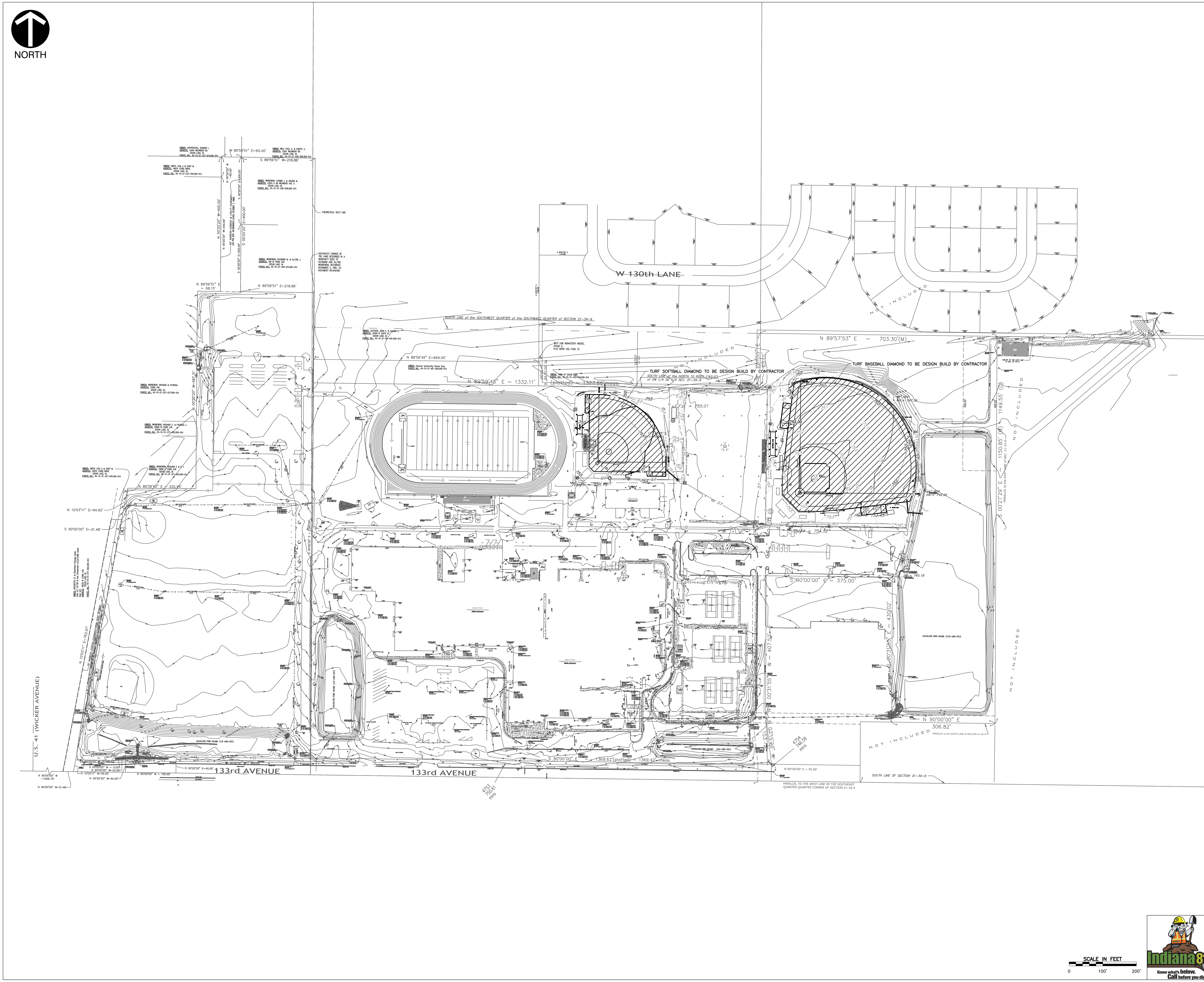

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PROJECT

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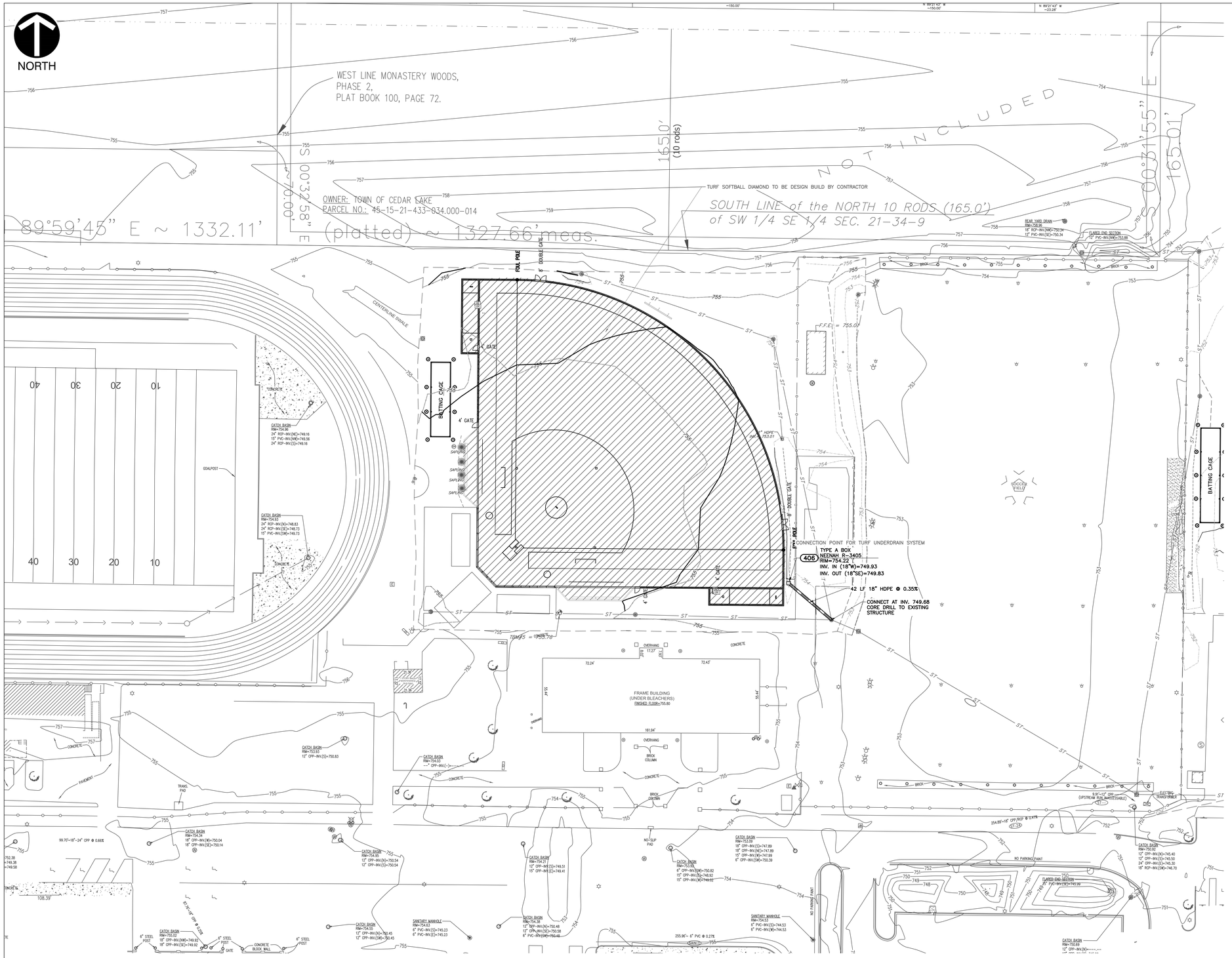
SHEET
C400



GENERAL DRAINAGE NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
4. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. 'T OR Y' BLIND CONNECTIONS ARE NOT ALLOWED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
6. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
7. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
8. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
9. STORM PIPE MATERIAL OPTIONS ARE AS FOLLOWS: HDPE OR RCP, AS NOTED ON PLANS. HDPE SHALL BE ADS N-12 DUAL WALL POLYETHYLENE PIPE (OR APPROVED EQUAL). PIPES BELOW FIELD ARE PERFORATED.
10. PRIOR TO CONSTRUCTION, CONTRACTOR TO VERIFY FEASIBILITY OF CONNECTING ADDITIONAL STORM PIPES TO EXISTING STRUCTURES. CONTRACTOR TO REHABILITATE STORM STRUCTURES FROM CORE-DRILLING NEW HOLES. REHABILITATION MAY INCLUDE BUT IS NOT LIMITED TO FLOW LINE FORMATION, SEALING CRACKS, STRUCTURAL LINING OR OTHER PROCEDURES AS REQUIRED BY THE TOWN OF CEDAR LAKE. REPLACE STRUCTURE IF REHABILITATION IS NOT POSSIBLE.

PROPOSED DRAINAGE LEGEND:

	PROPOSED SWALE
	PROPOSED STORM SEWER LINE
	PROPOSED TRENCH DRAIN
	PROPOSED ROOF DRAINS
945	PROPOSED INDEX CONTOUR
944	PROPOSED INTERMEDIATE CONTOUR
	PAVEMENT UNDERDRAIN
ME	MATCH EXISTING
RIM	TOP OF RIM
C.O.	CLEAN-OUT
	PROPOSED STORM CURB INLET, MANHOLE, CATCH BASIN

SCALE IN FEET
0 30' 60'

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

GIBRALTAR DESIGN
9102 N. Meridian St., Ste. 300
Indianapolis, IN 46260
Homepage www.GibraltarDesign.com
Email info@GibraltarDesign.com
Phone 317.580.5777 Fax 317.580.5778

PROJECT 23-144
DATE 08/28/24
COORDINATED BY AMR
DRAWN BY SRD
CHECKED BY AMR

AARON C. HUNT REGISTERED PROFESSIONAL ENGINEER № PE10300058 STATE OF INDIANA
Aaron C Hunt 8/28/2024

REVISIONS

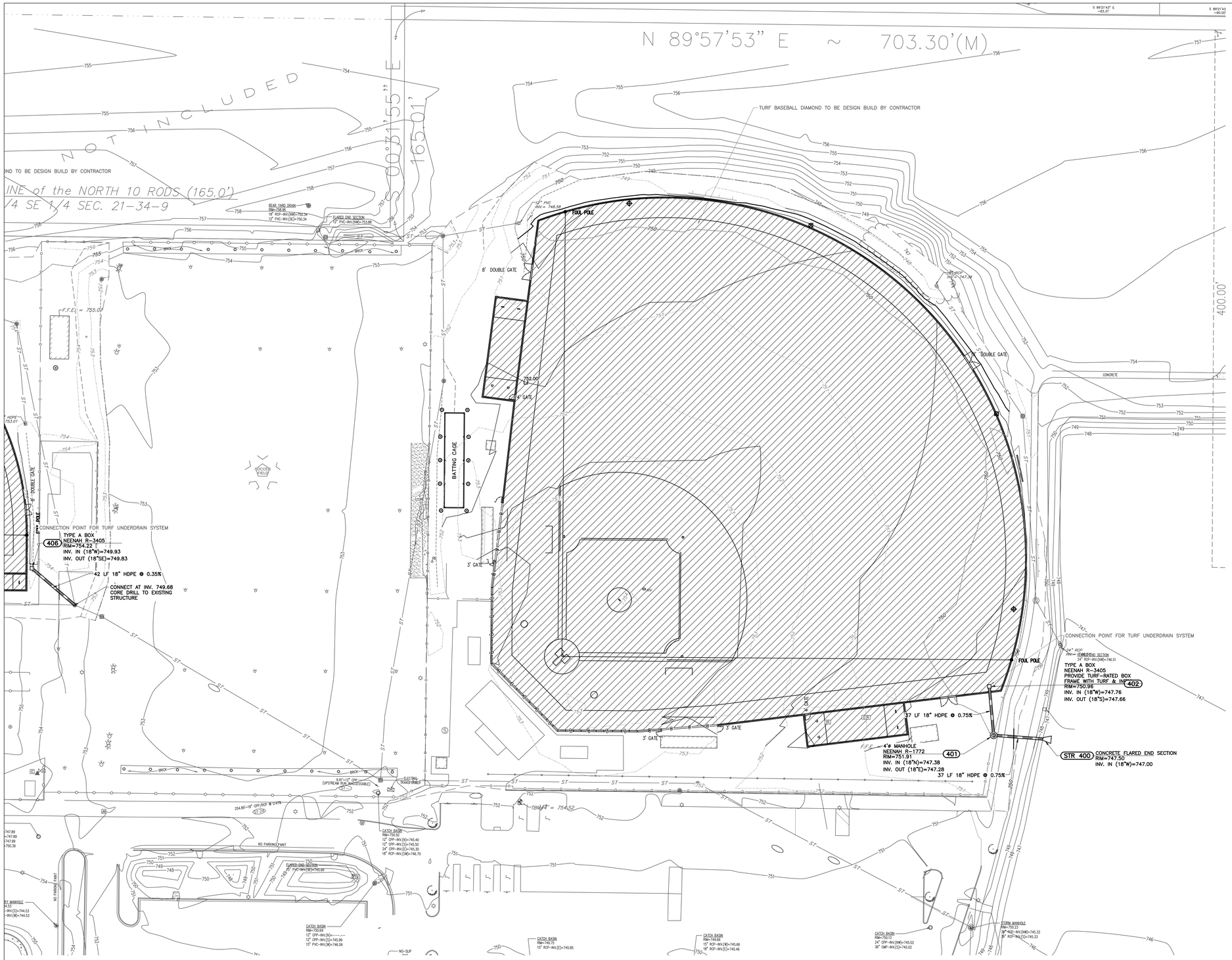
MARK	DATE	ISSUED FOR
1	09/13/24	ADDENDUM #3

DRAWING
SOFTBALL DRAINAGE PLAN

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET C401

Indiana 811 Know what's below. Call before you dig.



GENERAL DRAINAGE NOTES:

1. CONTRACTOR SHALL STRICTLY ADHERE TO THE EROSION CONTROL MEASURES PREPARED FOR THIS PROJECT.
2. DRAINAGE SYSTEMS SHALL BE INSPECTED DURING CONSTRUCTION BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR. WITHIN 30 DAYS AFTER COMPLETION OF ON AND OFF-SITE DRAINAGE FACILITIES, THE REGISTERED PROFESSIONAL SHALL CERTIFY IN WRITING THE COMPLIANCE OF THE DRAINAGE FACILITIES PER LOCAL REQUIREMENTS.
3. CONTRACTOR SHALL PERPETUATE ALL DRAINS AND TILES ENCOUNTERED DURING CONSTRUCTION. COORDINATE WITH ENGINEER OF RECORD REGARDING THE CONNECTION TO THE PROPOSED STORM SEWER SYSTEM.
4. STORM STRUCTURES RECEIVING SUB-SURFACE DRAINS (SSD) SHALL HAVE BOTH CONNECTIONS CORE DRILLED. T OR Y BLIND CONNECTIONS ARE NOT ALLOWED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
6. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
7. ANY WORK PERFORMED IN THE LOCAL OR STATE RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LOCAL OR STATE REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
8. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED.
9. STORM PIPE MATERIAL OPTIONS ARE AS FOLLOWS: HDPE OR RCP, AS NOTED ON PLANS. HDPE SHALL BE ADS N-12 DUAL WALL POLYETHYLENE PIPE (OR APPROVED EQUAL). PIPES BELOW FIELD ARE PERFORATED.
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	PROPOSED STORM CURB INLET, MANHOLE, CATCH BASIN

SCALE IN FEET
0 30' 60'

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Aaron C Hunt 8/28/2024

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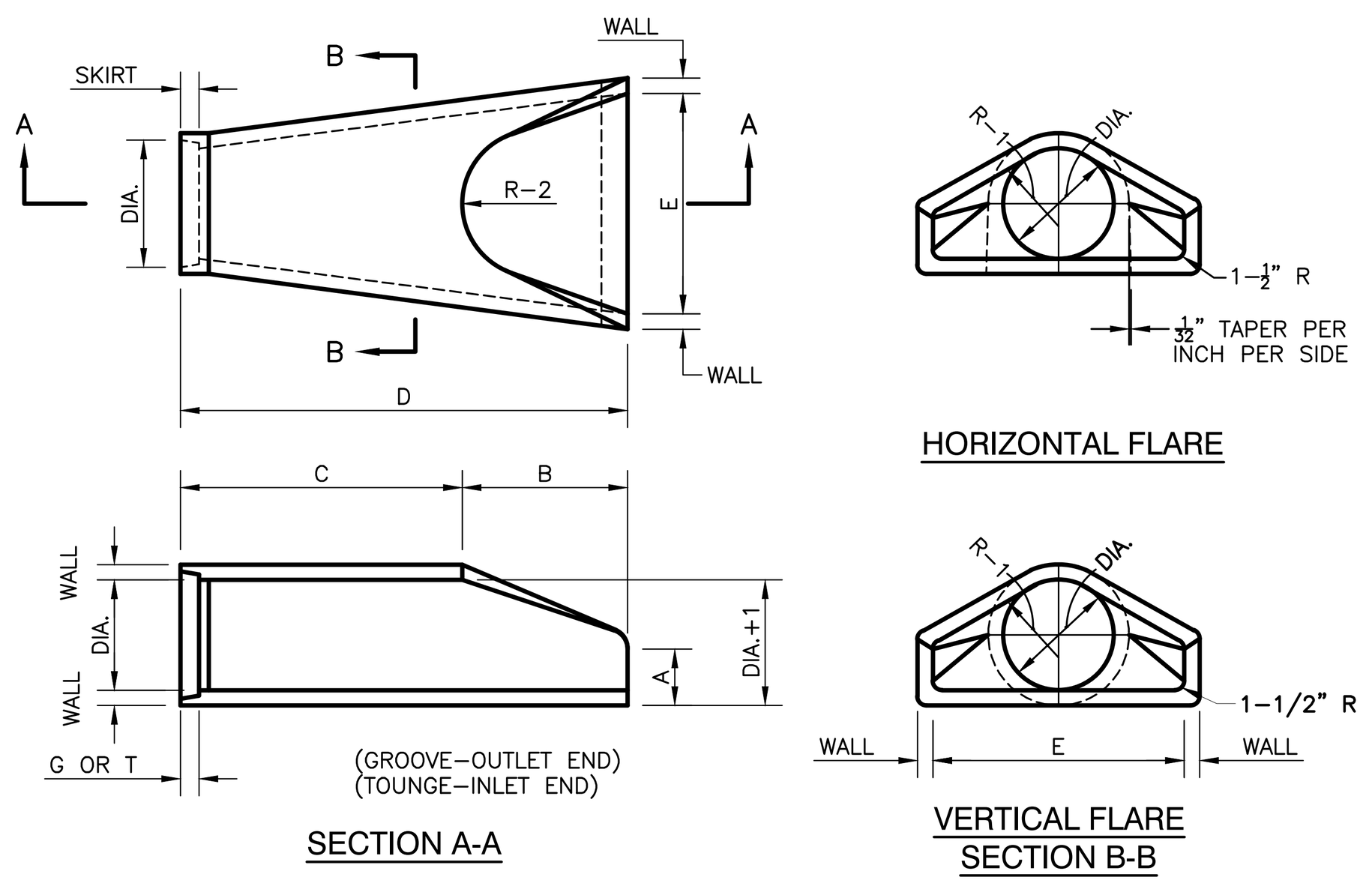
DRAWING
BASEBALL DRAINAGE PLAN

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET
C402

Indiana 811 Know what's below. Call before you dig.

Friday, 9/13/2024 - 11:16 AM - LAST SAVED BY:SDORN
P:\340-000\342-962\-CADD\DWG\CV01 CONSTRUCTION DOCS\342962-CV01-C400.DWG



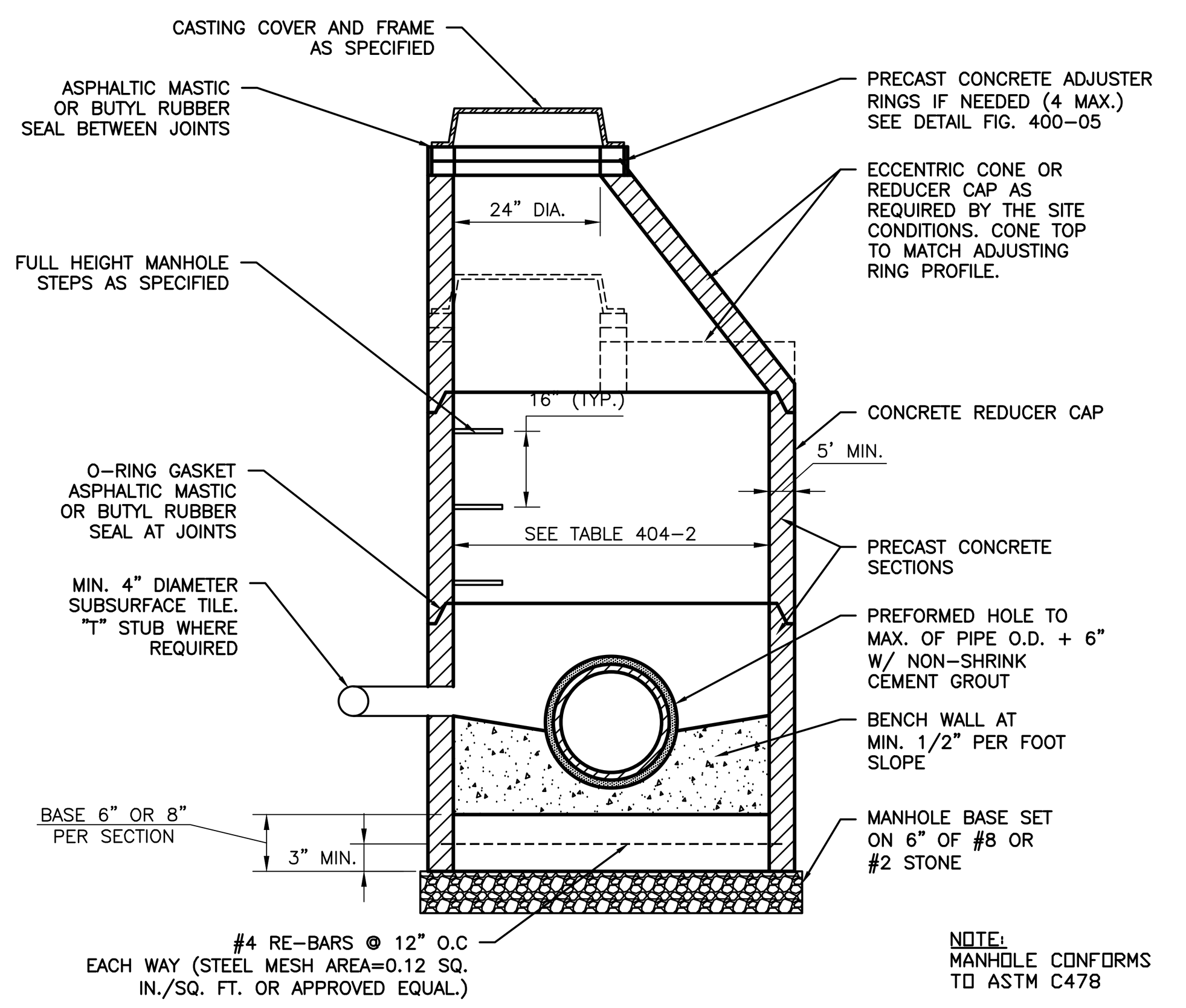
Dia.	Wall	G or T	Wt. Sec.	A	B	C	D	E	Dia.+1	R-1	R-2	Skirt
12	2	1 1/2	530	4	24	48 7/8	72 7/8	24	13	10 1/16	9	3 1/2
15	2 1/4	2	740	6	27	46	73	30	16	12 1/2	11	3 1/2
18	2 1/2	2 1/2	990	9	27	46	73	36	19	15 1/2	12	4
21	2 3/4	2 1/4	1280	9	35	38	73	42	22	16 1/8	13	4
24	3	2 1/2	1520	9 1/2	43 1/2	30	73 1/2	48	25	16 11/16	14	4 1/2
27	3 1/4	2 1/2	1930	10 1/2	48	25 1/2	73 1/2	54	28	17 3/4	14 1/2	4 1/2
30	3 1/2	3	2190	12	54	19 3/4	73 3/4	60	31	18 5/16	15	5
33	3 3/4	3 3/8	3150	13 1/2	58 1/2	39 1/4	97 3/4	66	34	23 3/4	17 1/2	5 1/2
36	4	3 1/2	4100	15	63	34 3/4	97 3/4	72	37	24 1/16	20	5 1/2
42	4 1/2	3 3/4	5380	21	63	35	98	78	43	27 1/4	22	5 1/2
48	5	4 1/4	6550	24	72	26	98	84	49	28 1/8	22	5 3/4
54	5 1/2	4 3/4	8040	27	65	35	100	90	55	32 7/8	24	6 1/4
60	6	5	8750	30	60	39	99	96	61	36 3/4	24	6 3/4
66	6 1/2	5 1/2	10630	24	78	21	99	102	67	35 11/16	24	7 1/4
72	7	6	12520	34	78	21	99	108	73	38 5/8	24	7 3/4
78	7 1/2	6 1/2	14430	24	78	21	99	114	79	41 15/16	24	8 1/2
84	8	7	16350	24	78	21	99	120	85	44 13/16	24	9

NOTE:

MANUFACTURE OF END SECTION IS IN ACCORDANCE PORTIONS OF A.S.T.M. SPECIFICATION C76.

DETAIL 407 - PRECAST CONCRETE FLARED END SECTION

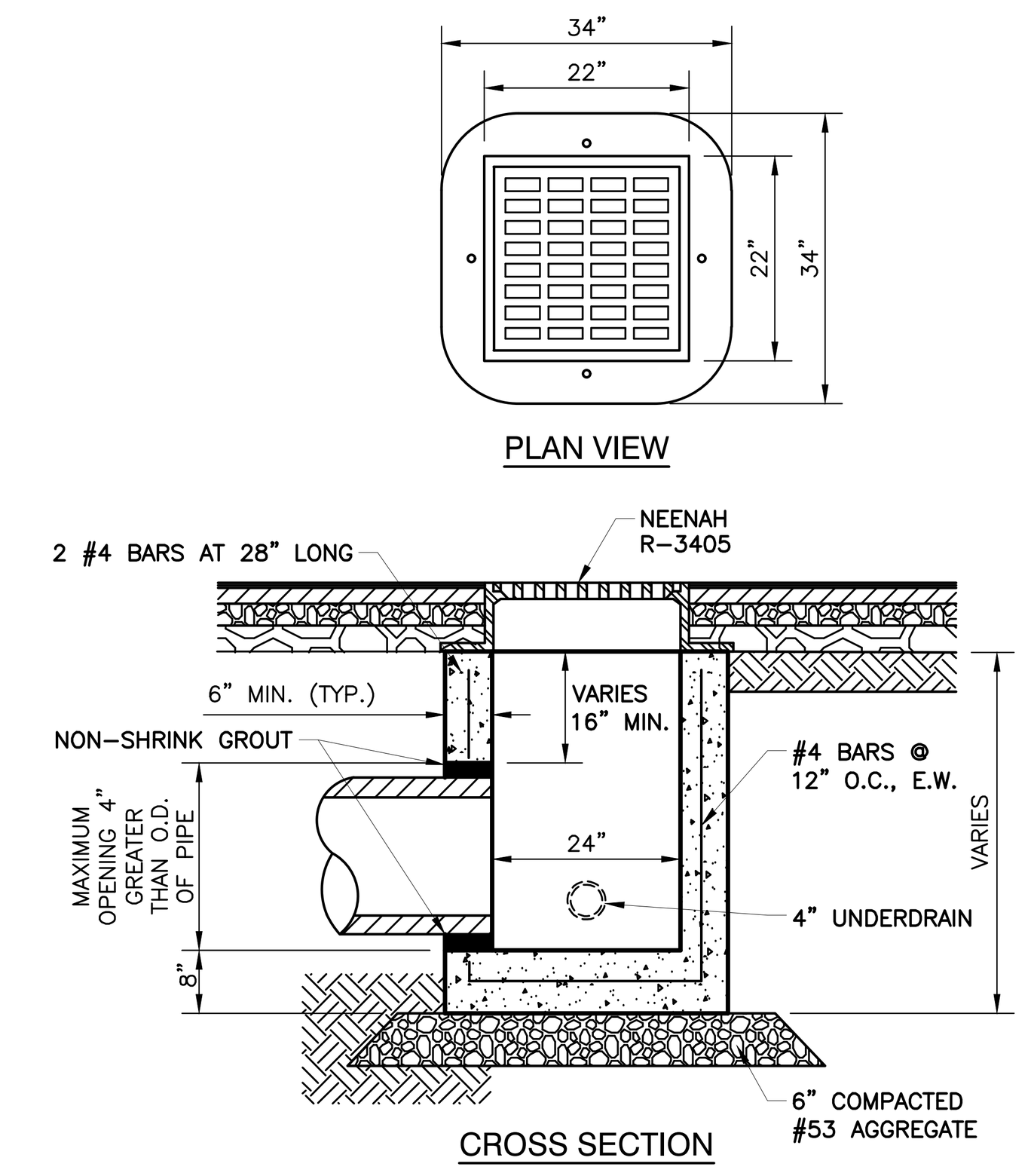
NOT TO SCALE



CASTING COVER AND FRAME AS SPECIFIED
ASPHALTIC MASTIC OR BUTYL RUBBER SEAL BETWEEN JOINTS
FULL HEIGHT MANHOLE STEPS AS SPECIFIED
24" DIA.
16" (TYP.)
SEE TABLE 404-2
O-RING GASKET ASPHALTIC MASTIC OR BUTYL RUBBER SEAL AT JOINTS
MIN. 4" DIAMETER SUBSURFACE TILE. "T" STUB WHERE REQUIRED
BASE 6" OR 8" PER SECTION
3" MIN.
#4 RE-BARS @ 12" O.C EACH WAY (STEEL MESH AREA=0.12 SQ. IN./SQ. FT. OR APPROVED EQUAL.)
PRECAST CONCRETE ADJUSTER RINGS IF NEEDED (4 MAX.) SEE DETAIL FIG. 400-05
ECCENTRIC CONE OR REDUCER CAP AS REQUIRED BY THE SITE CONDITIONS. CONE TOP TO MATCH ADJUSTING RING PROFILE.
CONCRETE REDUCER CAP
5" MIN.
PRECAST CONCRETE SECTIONS
PREFORMED HOLE TO MAX. OF PIPE O.D. + 6" W/ NON-SHRINK CEMENT GROUT
BENCH WALL AT MIN. 1/2" PER FOOT SLOPE
MANHOLE BASE SET ON 6" OF #8 OR #2 STONE
NOTE: MANHOLE CONFORMS TO ASTM C478

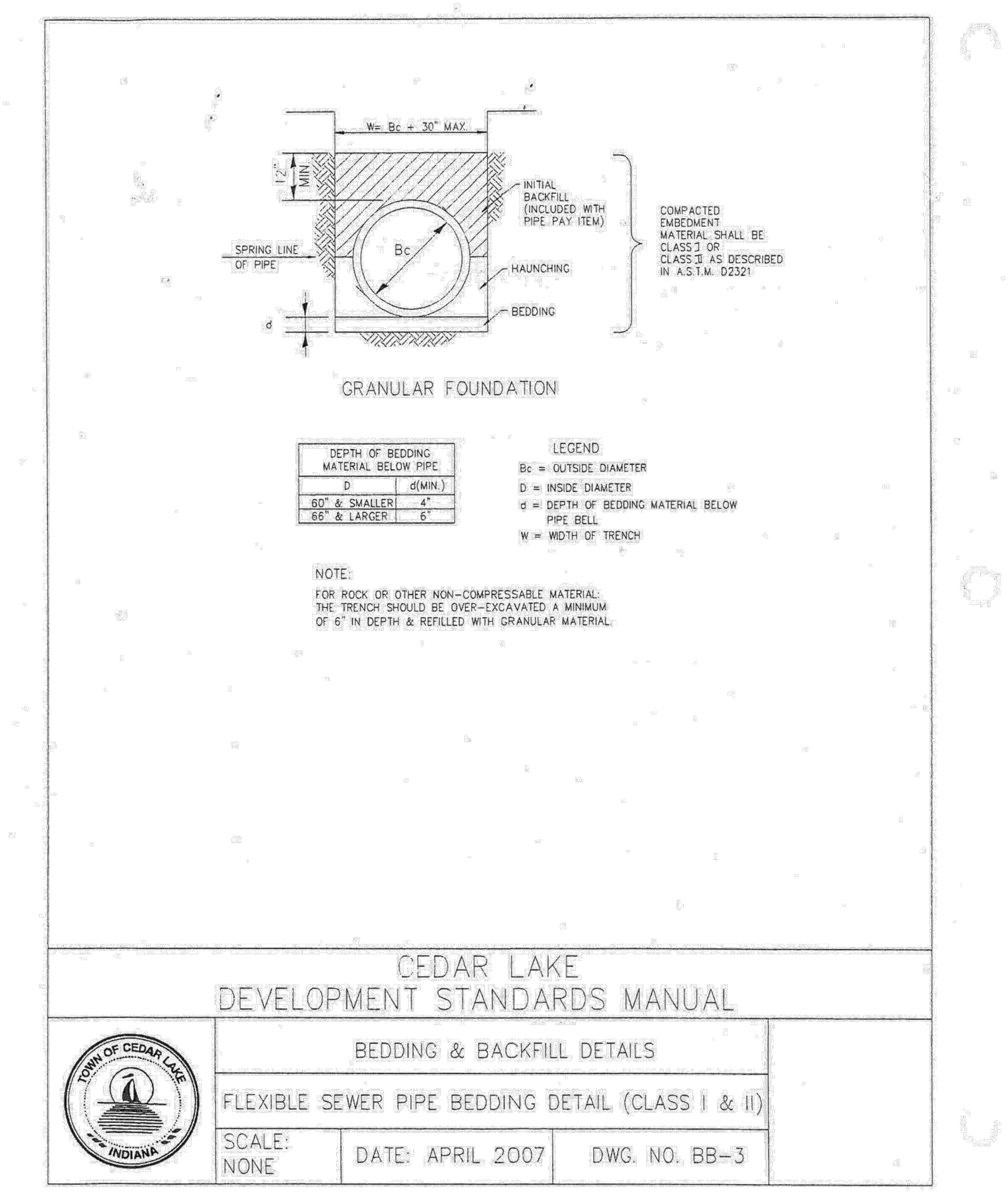
DETAIL 408 - STANDARD MANHOLE FOR PIPE SIZES 12" thru 24"

NOT TO SCALE



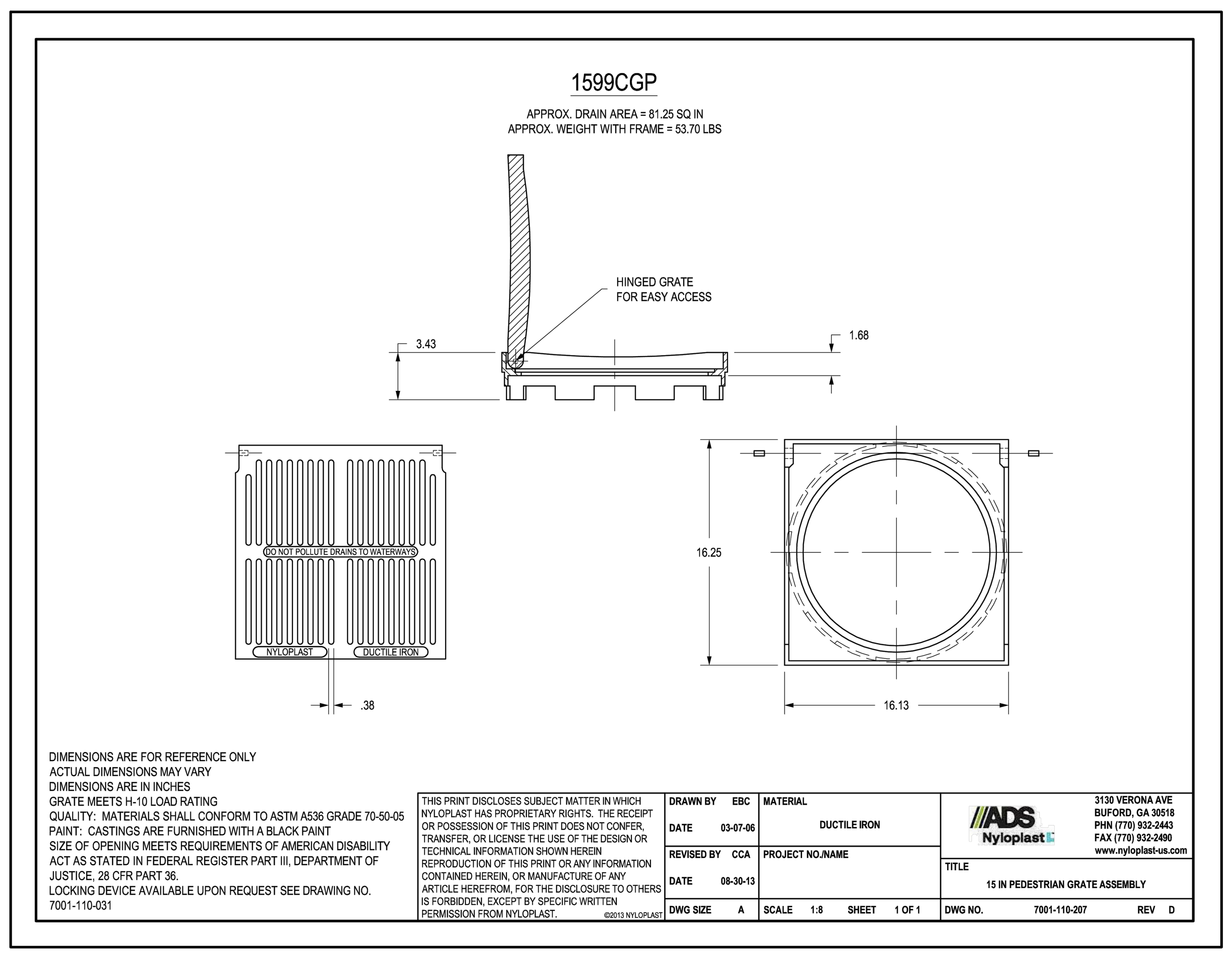
DETAIL 402 - PAVEMENT INLET TYPE "A"

NOT TO SCALE

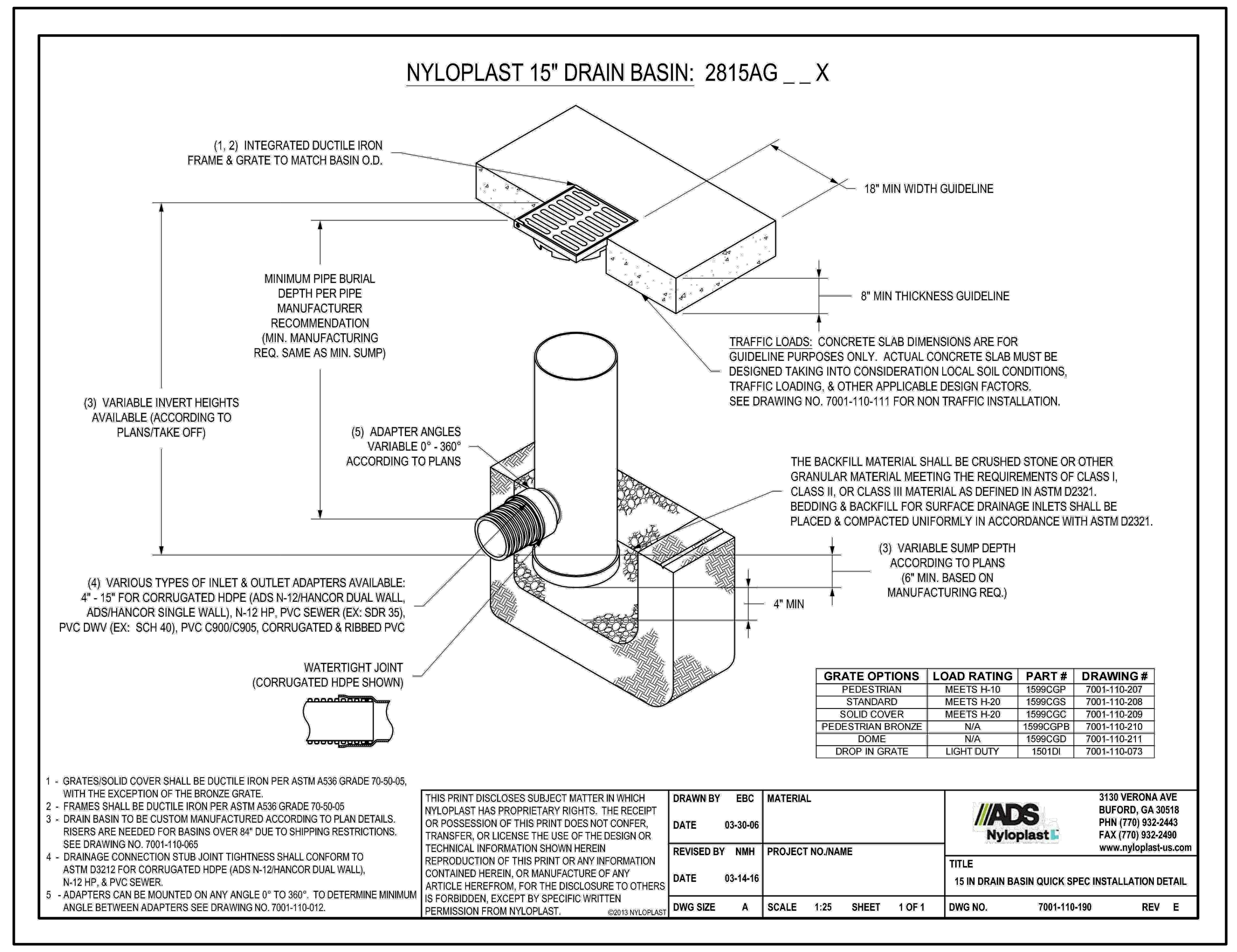


DETAIL 400 - PLASTIC PIPE (PVC & HDPE) BEDDING/TRENCH DETAIL

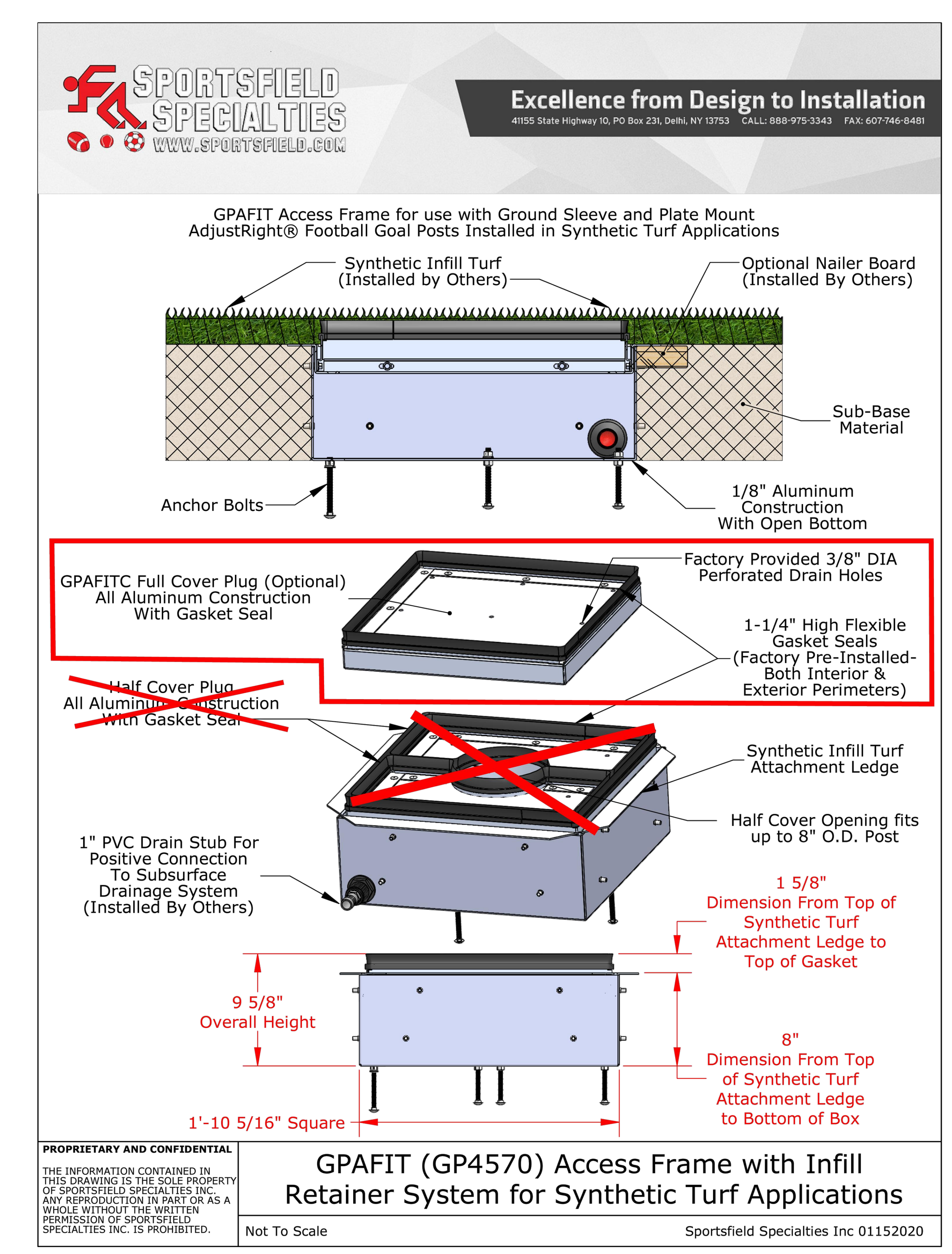
NOT TO SCALE



1599CGP
APPROX. DRAIN AREA = 81.25 SQ IN
APPROX. WEIGHT WITH FRAME = 53.70 LBS
HINGED GRATE FOR EASY ACCESS
DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRATE MEETS H-10 LOAD RATING
15 IN PEDESTRIAN GRATE ASSEMBLY



NYLOPLAST 15" DRAIN BASIN: 2815AG _ _ X
(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.
18" MIN WIDTH GUIDELINE
8" MIN THICKNESS GUIDELINE
MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION
(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)
(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS
WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)
15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL



SPORTSFIELD SPECIALTIES
Excellence from Design to Installation
GPAFIT Access Frame for use with Ground Sleeve and Plate Mount AdjustRight® Football Goal Posts Installed in Synthetic Turf Applications
Synthetic Infill Turf (Installed by Others)
Optional Nailer Board (Installed By Others)
Sub-Base Material
Anchor Bolts
1/8" Aluminum Construction With Open Bottom
GPAFITC Full Cover Plug (Optional) All Aluminum Construction With Gasket Seal
Factory Provided 3/8" DIA Perforated Drain Holes
1-1/4" High Flexible Gasket Seals (Factory Pre-Installed- Both Interior & Exterior Perimeters)
Half Cover Plug All Aluminum Construction With Gasket Seal
Synthetic Infill Turf Attachment Ledge
Half Cover Opening fits up to 8" O.D. Post
1" PVC Drain Stub For Positive Connection To Subsurface Drainage System (Installed By Others)
1 5/8" Dimension From Top of Synthetic Turf Attachment Ledge to Top of Gasket
9 5/8" Overall Height
8" Dimension From Top of Synthetic Turf Attachment Ledge to Bottom of Box
1'-10 5/16" Square
GPAFIT (GP4570) Access Frame with Infill Retainer System for Synthetic Turf Applications
Not To Scale
Sportsfield Specialties Inc 01152020

GIBRALTAR

DESIGN

ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT

HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 23-144

DATE 08/28/24

COORDINATED BY AMR

DRAWN BY SRD

CHECKED BY AMR

AARON C. HURT REGISTERED № PE10300058 STATE OF INDIANA PROFESSIONAL ENGINEER

Aaron C Hurt 8/28/2024

REVISIONS

MARK	DATE	ISSUED FOR
1	09/13/24	ADDENDUM # 3

DRAWING

SITE DETAILS

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET C800

ASSESSMENT OF CONSTRUCTION PLAN ELEMENTS (SECTION A)

(A1) INDEX OF THE LOCATION OF THE REQUIRED PLAN ELEMENTS IN THE CONSTRUCTION PLAN

THE PROPOSED EROSION CONTROL MEASURES CAN BE FOUND ON SHEET C900–C902. THE CORRESPONDING EROSION CONTROL DETAILS ARE SHOWN ON C904. THE REQUIRED EROSION CONTROL CHECKLIST ITEMS ARE LISTED ON THIS SHEET.

(A2) NARRATIVE OF THE NATURE AND PURPOSE OF THE PROJECT

THIS PROJECT CONSISTS OF REMOVING EXISTING LANDSCAPED BASEBALL AND SOFTBALL FIELDS AND REPLACING WITH SYNTHETIC FIELD MATERIAL LOCATED ON THE HANOVER CENTRAL HIGH SCHOOL SITE IN LAKE COUNTY, HANOVER TOWNSHIP, CEDAR LAKE, INDIANA.

(A3) LEGAL DESCRIPTION

A LEGAL DESCRIPTION IS SHOWN ON SURVEY ALTA SHEETS INCLUDED WITH THIS CONSTRUCTION SET.

(A4) SOIL PROPERTIES, CHARACTERISTICS, LIMITATIONS, AND HAZARDS ASSOCIATED WITH THE PROJECT SITE

THIS PROJECT CONSISTS OF PRIME FARMLAND SOIL THAT DOES NOT HAVE A FREQUENCY OF PONDING OR FLOODING. THERE ARE NO SOIL HAZARDS ASSOCIATED WITH THE PROJECT SITE.

(A5) GENERAL CONSTRUCTION SEQUENCE

PRE–CONSTRUCTION ACTIVITIES:

1. SCHEDULE A PRE–CONSTRUCTION MEETING WITH THE TOWN OF CEDAR LAKE.
2. POST NOTICE OF SUFFICIENCY, NOTICE OF INTENT, AND TOWN STORMWATER PERMITS ON SITE.
3. DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH 1/2" RAIAND A MINIMUM OF ONCE EACH WEEK.
4. CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1–800–382–5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES– MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.
5. ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.
6. INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.
7. INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS– ADD ADDITIONAL STONE AS NEEDED.
8. ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

1. AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE.
2. CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.
3. INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.
4. AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.
5. PLACE TOPSOIL IN ALL TURF AND LANDSCAPE AREAS.
6. INSTALL PAVEMENT AND FINAL GRADE AREA.
6. INSTALL LANDSCAPING AND FINAL SEEDING.
7. FILE THE IDEM NOTICE OF TERMINATION AFTER THE SITE HAS ACHIEVED A MINIMUM 70% VEGETATION COVER.

REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 7 DAYS OR MORE.

⚠1

(A6) 14- DIGIT WATERSHED HYDROLOGIC UNIT CODE

14–DIGIT WATERSHED HYDROLOGIC UNIT CODE: 071200011306.

(A7) 11X17-INCH PLAT SHOWING BUILDING LOT NUMBERS/BOUNDARIES AND ROAD LAYOUT/NAMES

PLEASE REFER TO SHEET C200, SITE LAYOUT PLAN INCLUDED WITH THE SUBMITTAL.

(A8) GENERAL SITE PLAN EXHIBIT

THE GENERAL SITE MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A9) IDENTIFICATION OF ANY OTHER STATE OR FEDERAL WATER QUALITY PERMITS OR AUTHORIZATIONS THAT ARE REQUIRED FOR CONSTRUCTION ACTIVITIES

AN IDEM CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) NOTICE OF INTENT (NOI) PERMIT WILL BE REQUIRED FOR THIS PROJECT.

(A10) PROOF OF ERRORS AND OMISSIONS INSURANCE

PLEASE REFER TO STORMWATER TECHNICAL REPORT. ⚠1

(A11) A VICINITY MAP DEPICTING THE PROJECTS SITE LOCATION

THE VICINITY MAP SHOWING THE PROJECT LOCATION CAN BE SEEN ON COVER SHEET.

(A12) IDENTIFICATION AND LOCATION OF ALL KNOWN WETLANDS, LAKES, AND WATER COURSES ON OR ADJACENT TO THE PROJECT SITE (CONSTRUCTION PLAN, EXISTING SITE LAYOUT)

NONE.

(A13) LOCATION OF ALL EXISTING STRUCTURES ON THE PROJECT SITE

REFER TO EXISTING TOPOGRAPHY SHEETS

(A14) BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS

THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA.

(A15) SOIL MAP OF THE PREDOMINATE SOIL TYPES

SOIL TYPE LEGEND

BIA – BLOUNT SILT LOAM, LAKE MICHIGAN LOBE, 0 TO 2 PERCENT SLOPES
EI – ELLIOTT SILT LOAM, 0 TO 2 PERCENT SLOPES
Pc – PEWAMO SILTY CLAY LOAM

(A16) IDENTIFICATION AND DELINEATION OF EXISTING COVER

THE EXISTING SITE IS CURRENTLY COVERED BY: GRASSES.

(A17) LOCATION(S) OF STORM, SANITARY, COMBINED SEWER, AND SEPTIC TANK SYSTEMS AND OUTFALLS.

PLEASE REFER TO SHEET SERIES C400.

(A18) LAND USE OF ALL ADJACENT PROPERTIES.

THE EXISTING LAND USES ADJACENT TO THE SITE ARE AS FOLLOWS:

NORTH: AGRICULTURAL, RESIDENTIAL
WEST: HIGH SCHOOL CAMPUS
SOUTH: HIGH SCHOOL CAMPUS
EAST: HIGH SCHOOL CAMPUS

(A19) IDENTIFICATION AND DELINEATION OF SENSITIVE AREAS.

PROPOSED STORM SEWER WILL DISCHARGE TO EXISTING DETENTION POND LOCATED EAST OF SITE.

(A20) EXISTING TOPOGRAPHY AT A CONTOUR INTERVAL TO INDICATE DRAINAGE PATTERNS.

REFER TO EXISTING TOPOGRAPHY SHEETS

(A21) LOCATION(S) OF REGULATED DRAINS, FARM DRAINS, INLETS AND OUTFALLS.

REFER TO EXISTING TOPOGRAPHY SHEETS AND SHEET SERIES C400.

(A22) LOCATION(S) OF ALL EXISTING CORNERSTONES WITHIN THE PROPOSED DEVELOPMENT.

THERE ARE NO EXISTING CORNERSTONES WITHIN THE PROPOSED DEVELOPMENT.

(A23) LOCATION(S) OF ALL PROPOSED SITE IMPROVEMENTS.

LONGITUDE: 87°27'21.3"W LATITUDE: 41°22'47.4"N

(A24) BOUNDARIES OF THE ONE HUNDRED (100) YEAR FLOODPLAINS, FLOODWAY FRINGES, AND FLOODWAYS

THE PROJECT DOES NOT LIE WITHIN A 100 YEAR FLOODPLAIN AND/ OR THE FLOODWAY AREA.

(A25) PROPOSED FINAL TOPOGRAPHY.

PLEASE REFER TO SHEET SERIES C300.

(A26) DELINEATION OF ALL PROPOSED LAND DISTURBING ACTIVITIES, INCLUDING OFF-SITE ACTIVITIES THAT WILL PROVIDE SERVICES TO THE PROJECT SITE.

PLEASE REFER TO SHEET SERIES C200, C400, AND C900.

(A27) LOCATION OF ALL SOIL STOCKPILES AND BORROW AREAS.

NO PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. IF TEMPORARY STOCKPILE OR BORROW AREAS ARE UTILIZED DURING CONSTRUCTION THAN THE PERIMETER OF THE STOCKPILE AREA SHALL BE ENCOMPASSED WITH SILT FENCE.

(A28) INFORMATION REGARDING ANY OFF-SITE BORROW, STOCKPILE, OR DISPOSAL AREAS THAT ARE ASSOCIATED WITH A PROJECT SITE, AND UNDER THE CONTROL OF THE PROJECT SITE OWNER.

NO OFF–SITE PERMANENT SOIL STOCKPILES ARE PLANNED FOR THIS DEVELOPMENT. STOCKPILE ON SITE SHALL BE PLACED NORTH OF FIELDS IF NECESSARY.

(A29) EXISTING AND PROPOSED TOPOGRAPHIC INFORMATION.

⚠1

REFER TO EXISTING TOPOGRAPHY SHEETS AND SHEET SERIES C300.

(A30) AN ESTIMATE OF THE PEAK DISCHARGE, BASED ON THE TEN (10) YEAR STORM EVENT, OF THE PROJECT SITE FOR POST-CONSTRUCTION CONDITIONS.

PLEASE REFER TO STORMWATER TECHINCAL REPORT.

(A31) PROPOSED 100-YEAR RELEASE RATES DETERMINED FOR THE SITE.

PLEASE REFER TO STORMWATER TECHINCAL REPORT.

(A32) CALCULATION SHOWING PEAK RUNOFF RATE AFTER DEVELOPMENT FOR THE 100-YEAR RETURN PERIOD 24-HOUR STORMS DO NOT EXCEED THE RESPECTIVE ALLOWABLE RELEASE RUNOFF RATES.

PLEASE REFER TO STORMWATER TECHINCAL REPORT.

(A33) LOCATION, SIZE, AND DIMENSIONS OF ALL EXISTING STREAMS TO BE MAINTAINED, AND NEW DRAINAGE SYSTEMS

PLEASE REFER TO SHEET SERIES C400 AND C900.

(A34) LOCATIONS WHERE STORM WATER MAY BE DIRECTLY DISCHARGED INTO GROUNDWATER. PLEASE NOTE IF NONE EXISTS.

PLEASE REFER TO SHEET SERIES C400.

(A35) LOCATIONS OF SPECIFIC POINTS WHERE STORM WATER DISCHARGE WILL LEAVE THE PROJECT SITE.

PLEASE REFER TO SHEET SERIES C400.

(A36) NAME OF ALL RECEIVING WATERS.

DISCHARGES INTO EXISTING STORM SEWER SYSTEM THEN CEDAR CREEK ULTIMATELY DISCHARGES INTO CEDAR LAKE

(A37) LOCATION, SIZE, AND DIMENSIONS OF FEATURES SUCH AS PERMANENT RETENTION OR DETENTION FACILITIES USED FOR THE PURPOSE OF STORM WATER MANAGEMENT.

PLEASE REFER TO SHEET SERIES C400.

(A38) THE ESTIMATED DEPTH AND AMOUNT OF STORAGE REQUIRED BY DESIGN OF THE NEW PONDS OR BASINS.

NO NEW PONDS ARE PROPOSED.

(A39) ONE OR MORE TYPICAL CROSS SECTIONS OF ALL EXISTING AND PROPOSED CHANNELS OR OTHER OPEN DRAINAGE FACILITIES CARRIED TO A POINT ABOVE THE 100-YEAR HIGH WATER AND SHOWING THE ELEVATION OF THE EXISTING LAND AND THE PROPOSED CHANGES, TOGETHER WITH THE HIGH WATER ELEVATIONS EXPECTED FROM THE 100 YEAR STORM UNDER THE CONTROLLED CONDITIONS CALLED FOR BY THIS ORDINANCE, AND THE RELATIONSHIP OF STRUCTURES, STREETS, AND OTHER FACILITIES.

NO NEW PONDS OR CHANNELS ARE PROPOSED.

ASSESSMENT OF STORM WATER DRAINAGE TECHNICAL REPORT (SECTION B)

(B1) THE SIGNIFICANT DRAINAGE PROBLEMS ASSOCIATED WITH THE PROJECT.

THE TURF FIELD WILL DRAIN THROUGH UNDERDRAINS AND DRAIN THROUGH A PROPOSED STORM SEWER SYSTEM NETWORK TO THE EXISTING STORM SEWER NETWORK ON SITE. THERE ARE NO ANTICIPATED SIGNIFICANT DRAINAGE PROBLEMS ASSOCIATED WITH THE PROJECT.

(B2) THE ANALYSIS PROCEDURE USED TO EVALUATE THESE PROBLEMS AND TO PROPOSE SOLUTIONS.

THE HANOVER HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS WILL MANAGE SITE STORMWATER IN ACCORDANCE WITH CEDAR LAKE STORMWATER ORDINANCE. WITH THE PROPER CONSTRUCTION OF THE TURF FIELD USING 6–INCHES OF #8 STONE, NO ADVERSE IMPACTS ARE EXPECTED FOR UPSTREAM OR DOWNSTREAM PROPERTY OWNERS. THE RATIONAL METHOD WAS USED TO EVALUATE THIS SITE.

(B3) ANY ASSUMPTIONS OR SPECIAL CONDITIONS ASSOCIATED WITH THE USE OF THESE PROCEDURES.

NO SPECIAL CONDITIONS WERE ASSOCIATED WITH THE USE OF THESE PROCEDURES.

(B4) THE PROPOSED DESIGN OF THE DRAINAGE CONTROL SYSTEM.

THE TURF FIELDS WILL DRAIN THROUGH UNDERDRAINS THROUGHOUT THE SITE AND WILL TIE INTO A PROPOSED STORM SEWER SYSTEM THAT ULTIMATELY DRAINS TO AN EXISTING STORM SEWER SYSTEM. THE IMPROVEMENTS WILL IMPACT THE TWO FIELDS. THE REPLACEMENT OF THE NATURAL TURF WITH ARTIFICIAL TURF WILL NOT REQUIRE ADDITIONAL DETENTION. THE PROPOSED STONE BASE BENEATH THE TURF FIELD WILL ACT AS DETENTION.

(B5) THE RESULTS OF THE ANALYSIS OF THE PROPOSED DRAINAGE CONTROL SYSTEM SHOWING THAT IT DOES SOLVE THE PROJECT'S DRAINAGE PROBLEM.

PLEASE REFER TO STORMWATER TECHNICAL REPORT FOR THE RESULTS OF THE ANALYSIS OF THE PROPOSED DRAINAGE CONTROL SYSTEM.

(B6) A HYDRAULIC REPORT DETAILING EXISTING AND PROPOSED DRAINAGE PATTERNS ON THE SUBJECT SITE.

PLEASE REFER TO STORMWATER TECHNICAL REPORT FOR A REPORT DETAILING EXISTING AND PROPOSED DRAINAGE PATTERNS.

(B7) ALL HYDROLOGIC AND HYDRAULIC COMPUTATIONS SHOULD BE INCLUDED IN THE SUBMITTAL.

PLEASE REFER TO STORMWATER TECHNICAL REPORT FOR ALL HYDROLOGIC AND HYDRAULIC COMPUTATIONS.

(B8) COPIES OF ALL COMPUTER RUNS.

NO COMPUTER RUNS WERE USED IN THE ANALYSIS OF THE HYDROLOGIC AND HYDRAULIC COMPUTATIONS.

(B9) A SET OF EXHIBITS SHOULD BE INCLUDED SHOWING THE DRAINAGE SUB-AREAS AND A SCHEMATIC DETAILING OF HOW THE COMPUTER MODELS WERE SET UP.

PLEASE REFER TO STORMWATER TECHNICAL REPORT FOR A SET OF EXHIBITS. NO COMPUTER RUNS WERE USED TO DETERMINE HYDROLOGIC AND HYDRAULIC COMPUTATIONS.

(B10) A CONCLUSION WHICH SUMMARIZES THE HYDRAULIC DESIGN AND DETAILS HOW THIS DESIGN SATISFIES THE ORDINANCE.

THE HANOVER HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS WILL MANAGE SITE STORMWATER IN ACCORDANCE WITH CEDAR LAKE STORMWATER ORDINANCE. WITH THE PROPER CONSTRUCTION OF THE TURF FIELD USING 6–INCHES OF #8 STONE, NO ADVERSE IMPACTS ARE EXPECTED FOR UPSTREAM OR DOWNSTREAM PROPERTY OWNERS.

ASSESSMENT OF STORM WATER POLLUTION PREVENTION PLAN (SECTION C)

(C1) LOCATION, DIMENSIONS, DETAILED SPECIFICATIONS, AND CONSTRUCTION DETAILS OF ALL TEMPORARY AND PERMANENT STORM WATER QUALITY MEASURES.

PLEASE REFER TO SHEET SERIES C900–C904.

(C2) TEMPORARY STABILIZATION PLANS AND SEQUENCE OF IMPLEMENTATION.

PLEASE REFER TO SHEET SERIES C900–C904.

(C3) TEMPORARY STABILIZATION PLANS AND SEQUENCE OF IMPLEMENTATION.

PLEASE REFER TO SHEET SERIES C900–C904.

(C4) CONSTRUCTION SEQUENCE DESCRIBING THE RELATIONSHIP BETWEEN IMPLEMENTATION OF STORM WATER QUALITY MEASURES AND STAGES OF CONSTRUCTION ACTIVITY.

PRE–CONSTRUCTION ACTIVITIES:

SCHEDULE A PRE–CONSTRUCTION MEETING WITH STORMWATER COMPLIANCE INSPECTOR.
DESIGNATE A PERSON TO BE RESPONSIBLE FOR THE SITE INSPECTIONS AFTER EACH 1/2" RAIAND A MINIMUM OF ONCE EACH WEEK.

CALL THE INDIANA UNDERGROUND PLANT PROTECTION SYSTEMS, INC. (HOLEY MOLEY) AT 1–800–382–5544 TO CHECK LOCATIONS OF ANY EXISTING UTILITIES– MIN, 2 DAYS PRIOR BEFORE CONSTRUCTION ACTIVITY.

ESTABLISH ONSITE LOCATION FOR OWNER/OPERATOR/CONTRACTOR PLACEMENT OF APPROVED PLANS AND CSGP NOI AND CSGP INSPECTION DOCUMENTATION.

INSTALL SILT FENCE AND OTHER EROSION CONTROL MEASURES AS INDICATED ON DRAWINGS.

INSTALL GRAVEL CONSTRUCTION ENTRANCE AS INDICATED ON DRAWINGS– ADD ADDITIONAL STONE AS NEEDED.

ESTABLISH CONSTRUCTION STAGING AREA FOR EQUIPMENT AND VEHICLES.

CONSTRUCTION ACTIVITY PHASING:

AFTER EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE, BEGIN LAND CLEARING FOLLOWED IMMEDIATELY BY ROUGH GRADING. EROSION CONTROL FOR LARGE UNPROTECTED AREAS MUST BE INITIATED WITHIN 7 DAYS OF EXPOSURE, AND MUST BE COMPLETE BY DAY 14 OF EXPOSURE.
CONSTRUCT CONCRETE WASH STATION BEFORE CONCRETE WORK IS TO COMMENCE ON SITE. REFER TO PLAN FOR LOCATION.

INSTALL SEWERS, ALL UTILITIES AND UNDERDRAINS. ADD INLET PROTECTION MEASURES AS INDICATED ON PLANS.

AFTER COMPLETION OF MASS GRADING AND FINAL GRADING: SEED ALL DISTURBED AREAS, COMMON AREAS AND SWALES IMMEDIATELY AFTER GRADING IS COMPLETED.

PLACE TOPSOIL IN ALL TURF AND LANDSCAPE AREAS.

INSTALL PAVEMENT AND FINAL GRADE AREA.

INSTALL LANDSCAPING AND FINAL SEEDING.

REMOVE ALL SEDIMENT CONTROL PRACTICES ONCE THE SITE IS STABILIZED.

NOTE: INSTALL TEMPORARY SEEDING AFTER A SPECIFIC STAGE OF CONSTRUCTION HAS BEEN COMPLETED (TEMPORARY OR FINAL) WHERE AREAS WILL BE IDLE OF CONSTRUCTION ACTIVITIES FOR A PERIOD OF 7 DAYS OR MORE.

(C5) A TYPICAL EROSION AND SEDIMENT CONTROL PLAN FOR INDIVIDUAL LOT DEVELOPMENT.

PLEASE REFER TO SHEET SERIES C900–C904.

(C6) SELF MONITORING SYSTEM INCLUDING PLANS AND PROCEDURES.

EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	AS NEEDED	PRIOR TO CLEARING AND GRADING
SILT FENCE	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO CLEARING AND GRADING
PERMANENT SEEDING	WATER AS NEEDED	AFTER FINISH GRADING
EROSION CONTROL BLANKET	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	AFTER FINISH GRADING
SEED, SOD & LANDSCAPE AROUND	WATER AS NEEDED	AFTER FINISHED GRADING
DUST CONTROL	AS NEEDED	ALONG WITH ALL EARTHWORK ACTIVITIES
CONCRETE WASHOUT	WEEKLY, AFTER STORM EVENTS AND AS NEEDED	PRIOR TO START OF ANY CONCRETE WORK
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

* SEE CHART FOR MAINTENANCE REQUIREMENTS

EROSION CONTROL MEASURES MAINTENANCE REQUIREMENTS

SILT FENCE MAINTENANCE REQUIREMENTS:

1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
2. IF FENCE TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF OF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE

INLET PROTECTION MAINTENANCE REQUIREMENTS:

1. INSPECT EACH INLET PROTECTION MEASURE WEEKLY AND AFTER STORM OR HEAVY USE
2. INSPECT STORM INLET BASKET OR GEOTEXTILE FABRIC AND MAKE REPAIRS.
3. REMOVE ANY SEDIMENT. AVOID DAMAGING OR UNDERCUTTING FABRIC.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER STORM EVENTS OR HEAVY USE
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL
3. TOP DRESS WITH CLEAN STONE AS NEEDED..
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING.
   FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT TRAP OR BASIN.

CONCRETE WASHOUT MAINTENANCE REQUIREMENTS:

1. INSPECT EACH CONCRETE WASHOUT AREAS DAILY AND AFTER STORM EVENTS OR HEAVY USE.
2. INSPECT THE INTEGRITY OF THE OVERALL STRUCTURE. CHECK FOR LEAKS, SPILLS OR TRACKING OF SOIL BY EQUIPMENT.
3. REMOVE EXCESS CONCRETE WHEN WASHOUT SYSTEM REACHES 50% OF THE DESIGN CAPACITY, UPON REMOVAL, INSPECT STRUCTURE, REPAIR AS NEEDED.
4. DISPOSE OF ALL CONCRETE IN A LEGAL MANNER.
5. REPLACE PLASTIC LINER AFTER EVERY CLEANING. ENLARGE AS NECESSARY TO MAINTAIN CAPACITY.

EROSION CONTROL BLANKET MAINTENANCE REQUIREMENTS:

1. INSPECT EACH EROSION CONTROL BLANKET AREAS WEEKLY AND AFTER STORM E VENTS OR HEAVY USE
2. CHECK FOR DISPLACEMENT OF BLANKET.
3. AREAS DISPLACED, PULL BACK PORTION OF BLANKET COVERING THE ERODED AREA, ADD SOIL AND TAMP, RESEED THE AREA. REPLACE AND STAPLE BLANKET.

(C7) A DESCRIPTION OF POTENTIAL POLLUTANT SOURCES ASSOCIATED WITH CONSTRUCTION ACTIVITIES.

POTENTIAL POLLUTANTS SOURCES RELATIVE TO A CONSTRUCTION SITE MAY INCLUDE, BUT ARE NOT LIMITED TO MATERIAL AND FUEL STORAGE AREAS, FUELING LOCATIONS, EXPOSED SOILS AND LEAKING VEHICLE/EQUIPMENT. POTENTIAL POLLUTANTS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO DIESEL FUEL, GASOLINE, CONCRETE AND CONCRETE WASHOUT, SOLID WASTE, SEDIMENT, PAINT AND SOLVENTS, EQUIPMENT REPAIR PRODUCTS, ANTI–FREEZE AND FERTILIZER.

(C8) MATERIAL HANDLING AND STORAGE ASSOCIATED WITH CONSTRUCTION ACTIVITY SHALL MEET THE SPILL PREVENTION AND SPILL RESPONSE REQUIREMENTS IN 327 IAC 2-6.1.

EXPECTED MATERIALS THAT MAY APPEAR AT THE SITE DUE TO CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO PETROLEUM PRODUCTS, FERTILIZERS, PAINT AND SOLVENTS, AND CONCRETE. MATERIALS SHALL BE STORED IN THE DESIGNATED MATERIAL STORAGE AREA.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT FUELING SHALL CONFORM TO THE FOLLOWING PRACTICES: VEHICLE EQUIPMENT FUELING PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT FUEL SPILLS AND LEAKS, AND REDUCE OR ELIMINATE CONTAMINATION OF STORMWATER. THIS CAN BE ACCOMPLISHED BY USING OFFSITE FACILITIES, FUELING IN DESIGNATED AREAS ONLY, ENCLOSING OR COVERING STORED FUEL, IMPLEMENTING SPILL CONTROLS, AND TRAINING EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING PROCEDURES. LIMITATIONS: ONSITE VEHICLE AND EQUIPMENT FUELING SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR FUELING. SENDING VEHICLES AND EQUIPMENT OFFSITE SHOULD BE DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE/EXIT. IMPLEMENTATION: USE OFFSITE FUELING STATIONS AS MUCH AS POSSIBLE. DISCOURAGE "TOPPING–OFF" OF FUEL TANKS. ABSORBENT SPILL CLEANUP MATERIALS AND SPILL KITS SHOULD BE AVAILABLE IN FUELING AREAS AND ON FUELING TRUCKS, AND SHOULD BE DISPOSED OF PROPERLY AFTER USE. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT FUELING, UNLESS THE FUELING IS PERFORMED OVER AN IMPERMEABLE SURFACE IN A DEDICATED FUELING AREA. USE ABSORBENT MATERIALS ON SMALL SPILLS. DO NOT HOSE DOWN OR BURY THE SPILL. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. AVOID MOBILE FUELING OF MOBILE CONSTRUCTION EQUIPMENT AROUND THE SITE; RATHER, TRANSPORT THE EQUIPMENT TO DESIGNATED FUELING AREAS. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER FUELING AND CLEANUP PROCEDURES. DEDICATED FUELING AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATERCOURSES. FUELING MUST BE PERFORMED ON LEVEL–GRADE AREA. PROTECT FUELING AREAS WITH BERMS AND DIKES TO PREVENT RUNON, RUNOFF, AND TO CONTAIN SPILLS. NOZZLES USED IN VEHICLE AND EQUIPMENT FUELING SHOULD BE EQUIPPED WITH AN AUTOMATIC SHUTOFF TO CONTROL DRIPS. FUELING OPERATIONS SHOULD NOT BE LEFT UNATTENDED. FEDERAL, STATE, AND LOCAL REQUIREMENTS SHOULD BE OBSERVED FOR ANY STATIONARY ABOVE GROUND STORAGE TANKS.

VEHICLES AND EQUIPMENT SHOULD BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ONSITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOILS.

SPILL PREVENTION FOR SOLID WASTE SHALL CONFORM TO THE FOLLOWING PRACTICES: SOLID WASTE MANAGEMENT PROCEDURES AND PRACTICES ARE DESIGNED TO PREVENT OR REDUCE THE DISCHARGE OF POLLUTANTS TO STORMWATER FROM SOLID OR CONSTRUCTION WASTE BY PROVIDING DESIGNATED WASTE COLLECTION AREAS AND CONTAINERS, ARRANGING FOR REGULAR DISPOSAL, AND TRAINING EMPLOYEES AND SUBCONTRACTORS. SOLID WASTE GENERATED FROM TREES AND SHRUBS REMOVED DURING LAND CLEARING, DEMOLITION OF EXISTING STRUCTURES, AND BUILDING CONSTRUCTION. PACKAGING MATERIALS INCLUDING WOOD, PAPER, AND PLASTIC. SCRAP OR SURPLUS BUILDING MATERIALS INCLUDING SCRAP METALS, RUBBER, PLASTIC, GLASS PIECES AND MASONRY PRODUCTS. DOMESTIC WASTES INCLUDING FOOD CONTAINERS SUCH AS BEVERAGE CANS, COFFEE CUPS, PAPER BAGS, PLASTIC WRAPPERS, AND CIGARETTES. CONSTRUCTION WASTES INCLUDING BRICK, MORTAR, TIMBER, STEEL AND METAL SCRAPS, PIPE AND ELECTRICAL CUTTINGS, NON–HAZARDOUS EQUIPMENT PARTS, STYROFOAM AND OTHER PACKAGE CONSTRUCTION MATERIALS. SELECT DESIGNATED WASTE COLLECTION AREAS ONSITE. INFORM TRASH–HAULING CONTRACTORS THAT YOU WILL ACCEPT ONLY WATERTIGHT DUMPSTERS FOR ONSITE USE. INSPECT DUMPSTERS FOR LEAKS AND REPAIR ANY DUMPSTER THAT IS NOT WATERTIGHT. PROVIDE AN ADEQUATE NUMBER OF CONTAINERS WITH LIDS OR COVERS THAT CAN BE PLACED OVER THE CONTAINER TO KEEP RAIN OUT OR TO PREVENT LOSS OF WASTES WHEN IT IS WINDY. PLAN FOR ADDITIONAL CONTAINERS AND MORE FREQUENT PICKUP DURING THE DEMOLITION PHASE OF CONSTRUCTION. COLLECT SITE TRASH DAILY, ESPECIALLY DURING RAINY AND WINDY CONDITIONS. REMOVE THIS SOLID WASTE PROMPTLY SINCE EROSION AND SEDIMENT CONTROL DEVICES TEND TO COLLECT LITTER. MAKE SURE THAT TOXIC LIQUID WASTES (SUED OILS, SOLVENTS AND PAINTS) AND CHEMICALS (ACIDS, PESTICIDES, ADDITIVES, CURING COMPOUNDS) ARE NOT DISPOSED OF IN DUMPSTERS DESIGNED FOR CONSTRUCTION DEBRIS. DO NOT HOSE OUT DUMPSTERS ON THE CONSTRUCTION SITE. LEAVE DUMPSTER CLEANING TO THE TRASH HAULING CONTRACTOR. ARRANGE FOR REGULAR WASTE COLLECTION BEFORE CONTAINERS OVERFLOW. CLEAN UP IMMEDIATELY IF A CONTAINER DOES SPILL. MAKE SURE THAT CONSTRUCTION WASTE IS COLLECTED, REMOVED, AND DISPOSED OF ONLY AT AUTHORIZED DISPOSAL AREAS. SOLID WASTE STORAGE AREAS SHOULD BE LOCATED AT LEAST 50 FT FROM DRAINAGE FACILITIES AND WATERCOURSES AND SHOULD NOT BE LOCATED IN AREAS PRONE TO FLOODING OR PONDING. INSPECT CONSTRUCTION WASTE AREA REGULARLY. ARRANGE FOR REGULAR WASTE COLLECTION.

SPILL PREVENTION FOR CONCRETE WASHOUT SHALL CONFORM TO THE FOLLOWING PRACTICES: STORE DRY AND WET MATERIALS UNDER COVER, AWAY FROM DRAINAGE AREAS. AVOID MIXING EXCESS AMOUNTS OF FRESH CONCRETE. PERFORM WASHOUT OF CONCRETE TRUCKS OFFSITE OR IN DESIGNATED AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. DO NOT ALLOW EXCESS CONCRETE TO BE DUMPED ONSITE, EXCEPT IN DESIGNATED AREAS. LOCATE WASHOUT AREAS AT LEAST 50 FT FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY. AVOID CREATING RUNOFF BY DRAINING WATER TO A BERMED OR LEVEL AREA WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES AND EXPOSE THE AGGREGATE. DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET OR STORM DRAIN. COLLECT AND RETURN SWEEPINGS TO AGGREGATE BASE STOCKPILE OR DISPOSE IN THE TRASH.

THE CLEANUP PARAMETERS SHALL CONFORM TO THE FOLLOWING PRACTICES: THE DEVELOPER SHALL BE CONTINUALLY KEPT INFORMED, MAINTAIN LISTS OF QUALIFIED CONTRACTORS AND AVAILABLE VAC–TRUCKS, TANK PUMPERS AND OTHER EQUIPMENT READILY ACCESSIBLE FOR CLEANUP OPERATIONS. IN ADDITION, A CONTINUALLY UPDATED LIST OF AVAILABLE ABSORBENT MATERIALS AND CLEANUP SUPPLIES SHOULD BE KEPT ON SITE. ALL MAINTENANCE PERSONNEL WILL BE MADE AWARE OF TECHNIQUES FOR PREVENTION OF SPILLS. THEY WILL BE INFORMED OF THE REQUIREMENTS AND PROCEDURES OUTLINED IN THIS PLAN. THEY WILL BE KEPT ABREAST OF CURRENT DEVELOPMENTS OR NEW INFORMATION ON THE PREVENTION OF SPILLS AND / OR NECESSARY ALTERATION TO THIS PLAN. WHEN SPILLS OCCUR WHICH COULD ENDANGER HUMAN LIFE AND THIS BECOME PRIMARY CONCERN, THE DISCHARGE OF THE LIFE SAVING PROTECTION FUNCTION WILL BE CARRIED OUT BY THE LOCAL POLICE AND FIRE DEPARTMENTS. ABSORBENT MATERIALS, WHICH ARE USED IN CLEANING UP SPILLED MATERIALS, WILL BE DISPOSED OF IN A MANNER SUBJECT TO THE APPROVAL OF THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT. FLUSHING OF SPILLED MATERIAL WITH WATER WILL NOT BE PERMITTED UNLESS SO AUTHORIZED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.

SPILL PREVENTION FOR VEHICLE AND EQUIPMENT MAINTENANCE SHALL CONFORM TO THE FOLLOWING PRACTICES: PREVENT OR REDUCE THE CONTAMINATION OF STORMWATER RESULTING FROM VEHICLE AND EQUIPMENT MAINTENANCE BY RUNNING A "DRY AND CLEAN SITE". THE BEST OPTION WOULD BE TO PERFORM MAINTENANCE ACTIVITIES AT AN OFFSITE FACILITY. IF THIS OPTION IS NOT AVAILABLE THEN WORK SHOULD BE PERFORMED IN DESIGNATED AREAS ONLY, WHILE PROVIDING COVER FOR MATERIALS STORED OUTSIDE, CHECKING FOR LEAKS AND SPILLS, AND CONTAINING AND CLEANING UP SPILLS IMMEDIATELY. THESE PROCEDURES ARE SUITABLE ON ALL CONSTRUCTION PROJECTS WHERE AN ONSITE YARD AREA IS NECESSARY FOR STORAGE AND MAINTENANCE OF HEAVY EQUIPMENT AND VEHICLES. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE SHOULD ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND VEHICLES AND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR. SENDING VEHICLES / EQUIPMENT OFFSITE SHOULD BY DONE IN CONJUNCTION WITH A STABILIZED CONSTRUCTION ENTRANCE / EXIT. OUT DOOR VEHICLE OR EQUIPMENT MAINTENANCE IS A POTENTIALLY SIGNIFICANT SOURCE OF STORMWATER POLLUTION. ACTIVITIES THAT CAN CONTAMINATE STORMWATER INCLUDE ENGINE REPAIR AND SERVICE, CHANGING OR REPLACEMENT OF FLUIDS, AND OUTDOOR EQUIPMENT STORAGE AND PARKING (ENGINE FLUID LEAKS). IF MAINTENANCE MUST OCCUR ONSITE, USE DESIGNATED AREAS, LOCATED AWAY FROM DRAINAGE COURSES. DEDICATED MAINTENANCE AREAS SHOULD BE PROTECTED FROM STORMWATER RUNON AND RUNOFF, AND SHOULD BE LOCATED AT LEAST 50 FT FROM DOWNSTREAM DRAINAGE FACILITIES AND WATER COURSES. DRIP PANS OR ABSORBENT PADS SHOULD BE USED DURING VEHICLE AND EQUIPMENT MAINTENANCE WORK THAT INVOLVES FLUIDS, UNLESS THE MAINTENANCE WORK IS PERFORMED OVER AND IMPERMEABLE SURFACE IN A DEDICATED MAINTENANCE AREA. PLACE A STOCKPILE OF SPILL CLEANUP MATERIALS WHERE IT WILL BE READILY ACCESSIBLE. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL KITS AND/OR USE OTHER SPILL PROTECTION DEVICES. USE ABSORBENT MATERIALS ON SMALL SPILLS. REMOVE THE ABSORBENT MATERIALS PROMPTLY AND DISPOSE OF PROPERLY. INSPECT ONSITE VEHICLES AND EQUIPMENT DAILY AT STARTUP FOR LEAKS, AND REPAIR IMMEDIATELY. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE. SEGREGATE AND RECYCLE WASTES, SUCH AS GREASES, USED OIL OR OIL FILTERS, ANTIFREEZE, CLEANING SOLUTIONS, AUTOMOTIVE BATTERIES, HYDRAULIC AND TRANSMISSION FLUIDS. PROVIDE SECONDARY CONTAINMENT AND COVERS FOR THESE MATERIALS IF STORED ONSITE. TRAIN EMPLOYEES AND SUBCONTRACTORS IN PROPER MAINTENANCE AND SPILL CLEANUP PROCEDURES. DRIP PANS OR PLASTIC SHEETING SHOULD BY PLACED UNDER ALL VEHICLES AND EQUIPMENT PLACED ON DOCKS, BARGES, OTHER STRUCTURES OVER WATER BODIES WHEN THE VEHICLE OR EQUIPMENT IS PLANNED TO BE IDLE FOR MORE THAN 1 HOUR. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. PROPERLY DISPOSE OF OR RECYCLE USED BATTERIES. DO NOT PLACE USED OIL IN A DUMPSTER OR POUR INTO A STORM DRAIN OR WATER COURSE. PROPERLY DISPOSE OF USED OILS, FLUIDS, LUBRICANTS, AND SPILL CLEANUP MATERIALS. DON NOT BURY TIRES. REPAIR LEAKS OF FLUIDS AND OIL IMMEDIATELY.

SPILL PREVENTION FOR FERTILIZERS SHALL CONFORM TO THE FOLLOWING PRACTICES: FERTILIZER'S USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

SPILL PREVENTION FOR PAINT AND SOLVENTS SHALL CONFORM TO THE FOLLOWING PRACTICES: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL REGULATIONS.

SPILL PREVENTION FOR PORTABLE TOILETS SHALL CONFORM TO THE FOLLOWING PRACTICE: ALL PORTABLE TOILETS MUST BE ANCHORED TO PREVENT SPILLS.

SPILL PREVENTION AND CLEANUP SHALL CONFORM TO IDEM FORM 327 IAC 2–6 AND THE (CITY) FIRE DEPARTMENT SHALL BE CONTACTED IN THE CASE OF A MATERIAL SPILL OCCURRING.

IDEM EMERGENCY SPILL REPORTING: (317) 233–7745 OR (888) 233–7745

CEDAR LAKE FIRE DEPARTMENT (219) 374–5961
LAKE COUNTY SHERIFF (219) 755–3400

(C9) NAME, ADDRESS, TELEPHONE NUMBER, AND LIST OF QUALIFICATIONS OF THE TRAINED INDIVIDUAL IN CHARGE OF THE MANDATORY STORM WATER POLLUTION PREVENTION SELF-MONITORING PROGRAM FOR THE PROJECT SITE.

OWNER:
HANOVER COMMUNITY SCHOOL COPORATION
ADAM MINTH
219.374.3501
9520 W 133RD AVE
CEDAR LAKE, INDIANA 46303

ASSESSMENT OF POST CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SECTION D)

(D1) A DESCRIPTION OF THE POTENTIAL POLLUTANT SOURCES FROM THE PROPOSED LAND USE.

POTENTIAL POLLUTANT SOURCES THAT MAY APPEAR AT THE SITE DUE TO PROPOSED LAND USE ACTIVITIES, BUT ARE NOT LIMITED TO VEHICLES, EXPOSED SOIL AND TRASH. POTENTIAL POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO OIL, GREASE, DIESEL FUEL, GASOLINE, ANTI–FREEZE, AUTO SOAP AND FERTILIZER.

(D2) LOCATION, DIMENSIONS, DETAILED SPECIFICATIONS, AND CONSTRUCTION DETAILS OF ALL POST CONSTRUCTION STORM WATER QUALITY MEASURES.

PLEASE REFER TO SHEET SERIES C900–C904

(D3) A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.

POST CONSTRUCTION STORMWATER QUALITY MEASURES TO AID IN REDUCING THE AMOUNT OF POLLUTANTS:

1. POST CONSTRUCTION STORMWATER QUALITY MEASURES WILL CONSIST OF VEGETATIVE COVER ON THE PERMANENT GRASS AREAS AND EROSION CONTROL BLANKETS IN SPECIFIED AREAS. BOTH THE VEGETATIVE COVER AND EROSION CONTROL BLANKETS ARE INTENDED TO STABILIZE THE DISTURBED AREAS AND TO SERVE AS A SEDIMENT TRAP FOR FINER PARTICLES WITHIN THE STORM SEWER SYSTEM.

2. THE USE OF INLETS WITHIN THE STORM SEWER SYSTEM HAS BEEN UTILIZED. MAINTENANCE OF THE INLETS WILL BE THE RESPONSIBILITY OF THE OWNER AND/OR AGENCY TAKING JURISDICTION OVER THE STORM SEWER INFRASTRUCTURE IMPROVEMENTS.

(D4) A SEQUENCE DESCRIBING WHEN EACH POST-CONSTRUCTION STORMWATER QUALITY MEASURE WILL BE INSTALLED.

THE STORMWATER QUALITY MEASURE IMPLEMENTATION SHALL BE BEGIN AFTER SUBSTANTIAL COMPLETION OF THE CONSTRUCTION ACTIVITIES FOR THE PROPOSED PROJECT. ADDITIONAL STORMWATER QUALITY MEASURES WILL BE IMPLEMENTED AT THE DEVELOPMENT OF SUBSEQUENT CONSTRUCTION PHASES. FOLLOWING CONSTRUCTION, ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED UNTIL ALL PERMANENT MEASURES, WATER QUALITY PLANTINGS AND VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION, INCLUDING LANDSCAPING, IS COMPLETE.

INDIVIDUAL EROSION CONTROL MEASURES MAY BE REMOVED FROM INLET PROTECTION STATUS FOLLOWING 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 COMMON AREAS, LANDSCAPE AREAS AND DRAINAGE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE DEVELOPER/OWNER AND OR LOCAL AGENCIES TAKING JURISDICTION OVER THE INFRASTRUCTURE IMPROVEMENTS.

(D5) STORMWATER QUALITY MEASURES THAT WILL REMOVE OR MINIMIZE POLLUTANTS FROM STORMWATER RUNOFF.

THE STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. REFER TO SHEETS C900 & C902 FOR EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE, REFER TO SHEET C400 FOR STORM SEWER IMPROVEMENTS, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS FOR THESE STORMWATER QUALITY MEASURES ARE INCLUDED WITHIN THE AFOREMENTIONED SERIES OF CONSTRUCTION DOCUMENTS.

(D6) STORMWATER QUALITY MEASURES THAT WILL BE IMPLEMENTED TO PREVENT OR MINIMIZE ADVERSE IMPACTS TO STREAM AND RIPARIAN HABITAT.

THE STORMWATER QUALITY MEASURES FOR POST CONSTRUCTION ACTIVITIES ARE INDICATED WITHIN THESE CONSTRUCTION DOCUMENTS. REFER TO SHEETS C900 & C902 FOR EROSION CONTROL MEASURES TO BE IMPLEMENTED WITHIN THE PROJECT SITE, REFER TO SHEET C400 FOR STORM SEWER IMPROVEMENTS, DIMENSIONS, SPECIFICATIONS AND CONSTRUCTION DETAILS FOR THESE STORMWATER QUALITY MEASURES ARE INCLUDED WITHIN THE AFOREMENTIONED SERIES OF CONSTRUCTION DOCUMENTS.

(D7) A NARRATIVE DESCRIPTION OF THE MAINTENANCE GUIDELINES FOR ALL POST CONSTRUCTION STORMWATER QUALITY MEASURES TO FACILITATE THEIR PROPER LONG TERM FUNCTION.

OWNER WILL PROVIDE MAINTENANCE ACTIVITIES FOR THE POST CONSTRUCTION WATER QUALITY MEASURES. MAINTENANCE ACTIVITIES WILL BE COMPLETED AS DESCRIBED BELOW.

1. ALL INLET CASTINGS WILL BE INSPECTED MONTHLY. DEBRIS AND TRASH AROUND OR OBSTRUCTING INLETS WILL BE REMOVED AND DISPOSED PROPERLY.

2. DAMAGE TO INLET CASTINGS, INLET STRUCTURES, STORM STRUCTURES, OR CATCH BASINS SHOULD BE REPAIRED AS SOON AS POSSIBLE.

3. GRASS AREAS SURROUNDING INLETS WILL BE MAINTAINED ON A REGULAR MOWING CYCLE. TRASH AND DEBRIS WILL BE REMOVED FROM SEEDED AND PAVED AREAS.

⚠1

GIBRALTAR DESIGN
ARCHITECTURE • ENGINEERING • INTERIOR DESIGN

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK
HANOVER COMMUNITY SCHOOL CORPORATION
CEDAR LAKE, INDIANA

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PROJECT 23–144
DATE 08/28/24
COORDINATED BY AMR
DRAWN BY SRD
CHECKED BY AMR

AARON C. HURT REGISTERED Nº PE10300058 STATE OF INDIANA PROFESSIONAL ENGINEER
Aaron C Hurt 8/28/2024

REVISIONS

MARK	DATE	ISSUED FOR
⚠1	09/13/24	ADDENDUM #3

DRAWING
STORMWATER POLLUTION PREVENTION NOTES

PROJECT
HANOVER CSC - HIGH SCHOOL BASEBALL AND SOFTBALL FIELDS AND RELATED WORK

SHEET C903

Friday, 9/13/2024 – 11:18 AM – LAST SAVED BY:SDORN
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