

RESOLUTION APPROVING SANITARY SEWER IMPROVEMENTS SHOWN ON THE PLANS RELATING TO SPIRE DORM VILLAGE – PHASE II B; HARPERSFIELD TOWNSHIP

WHEREAS, pursuant to the authorization and direction of this Board, Dan Barcikoski, PE, who has prepared and submitted to this Board for its consideration and approval, detailed plans for the extension of a sanitary sewer improvement to the Spire Dorm Village – Phase II B in Harpersfield Township located within JEDD 1; and

WHEREAS, The Spire Institute Dorm Village and The Ashtabula County Board of Commissioners understand that the sewer is owned and maintained by the City of Geneva; and

WHEREAS, since the sewer lines are located within the unincorporated area, the Board of Commissioners need to approve any sewer extensions; now

THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of the County of Ashtabula, Ohio, that:

Section 1. The detailed plans for the extension of a sanitary sewer in Spire Institute Dorm Village, in Harpersfield Township as presented to this Board by Dan Barcikoski, PE, be and the same are hereby approved.

Section 2. Those detailed plans shall be filed in the office of the Ashtabula County Sanitary Engineer and kept continuously on file there for inspection by all persons interested therein.

Section 3. This Board finds and determines that all formal actions of this Board concerning and relating to the adoption of this resolution were taken in an open meeting of this Board and that all deliberations of this Board and of any of its committees that resulted in those formal actions were in meetings open to the public in compliance with the law.

**ASHTABULA COUNTY COMMISSIONERS
CERTIFICATION PAGE**

Resolution No. 2022-492

November 15, 2022

**RESOLUTION APPROVING SANITARY SEWER IMPROVEMENTS SHOWN ON THE
PLANS RELATING TO SPIRE DORM VILLAGE - PHASE II B; HARPERSFIELD
TOWNSHIP**

Upon the motion of Kathryn L. Whittington, seconded by Casey R. Kozlowski.

VOTE:

J.P. Ducro IV

Aye

Casey R. Kozlowski

Aye

Kathryn L. Whittington

Aye

CERTIFICATE OF CLERK

IT IS HEREBY CERTIFIED that the foregoing is a true and correct transcript of a resolution acted upon and duly passed by the Board of County Commissioners of Ashtabula County, Ohio, on the date noted above.


Crystal Sturgill, Clerk of the Board *Acting*
Board of County Commissioners
Ashtabula County, Ohio

THIS HOME HAS BEEN DESIGNED SPECIFICALLY FOR:

DORM 1

5201 SPIRE CIRCLE
GENEVA, OH 44041
ASHTABULA COUNTY

BUILDER:

GENEVA
OWNER LLC

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045



BRAND:



BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM 1

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

FN	3/1/22	BAH
FN #2	3/8/22	BAH
SN	3/26/22	ATT

PROJECT:

43772
COMMERICAL

TITLE:

COVER SHEET

DRAWN BY: SAN

DATE: 02-04-22

SCALE:

FILENAME: 43772 FN2

PD1

SHEET:

COVER

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+/- 27'-8" TOP OF SILL TO PEAK

9'-0" 2ND FLOOR CEILING HEIGHT

2ND FLOOR FLOOR

9'-0" 1ST FLOOR CEILING HEIGHT

1ST FLOOR FLOOR

TOP OF SILL
GRADE



SIDING ON-SITE BY BUILDER

FRONT ELEVATION

SITE CONDITIONS:

GROUND SNOW LOAD:	40	PSF
WIND SPEED:	115	Vult
EXPOSURE:	B	
SEISMIC CATEGORY:	B	
USE GROUP:	R-2	
CONSTRUCTION TYPE:	VB WOOD FRAME UNPROTECTED	

SQUARE FOOTAGE:

FIRST FLOOR:	1,941	SQ. FT.
SECOND FLOOR:	1,941	SQ. FT.
BONUS ROOM:	-	SQ. FT.
GARAGE:	-	SQ. FT.
TOTAL:	3,882	SQ. FT.

OVERALL SIZE	30'-4" x 64'-0"
MODEL:	DORMITORY

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

NOTES:

- ITEMS SHOWN ON THE EXTERIOR ELEVATION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY
- GRILLS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY (SEE WINDOW MANUFACTURER CATALOG FOR ACTUAL GRILL PATTERN)

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045



BRAND:



BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:

43772
COMMERICAL

TITLE:

ELEVATIONS

DRAWN BY: SAN

DATE: 02-04-22

SCALE:

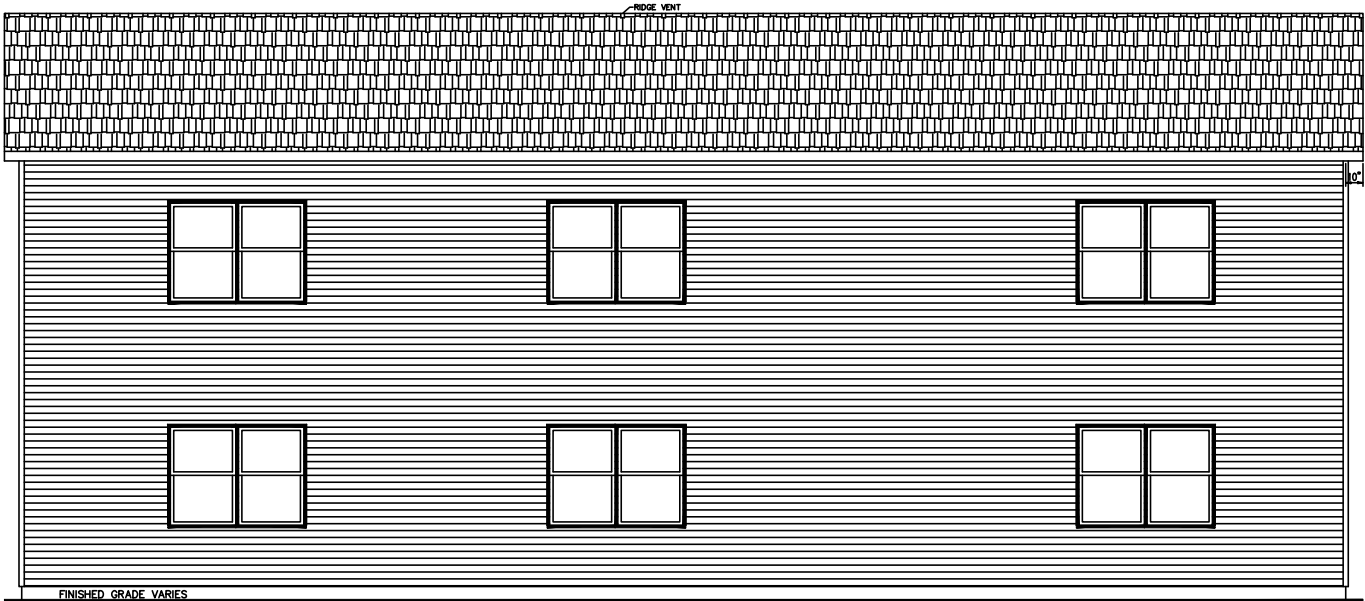
FILENAME: 43772 FN2

PD1

SHEET:

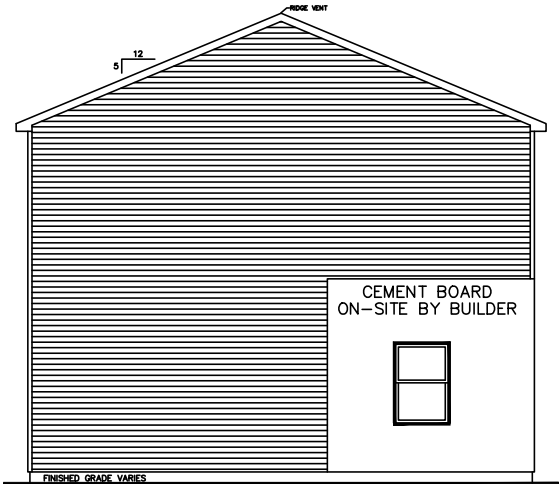
ELEVATIONS

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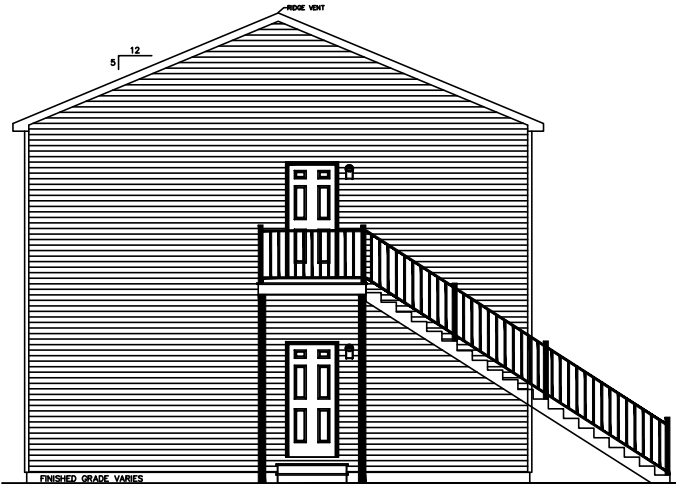
SIDING ON-SITE BY BUILDER

REAR ELEVATION



SIDING ON-SITE BY BUILDER

LEFT ELEVATION



SIDING ON-SITE BY BUILDER

RIGHT ELEVATION

EGRESS FROM SECOND FLOOR EXTERIOR
DOOR TO GRADE IS REQUIRED BY CODE.
STAIRS AND LANDING MUST BE PROVIDED
ON-SITE BY BUILDER.

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

NOTES:

1. ITEMS SHOWN ON THE EXTERIOR ELEVATION DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY

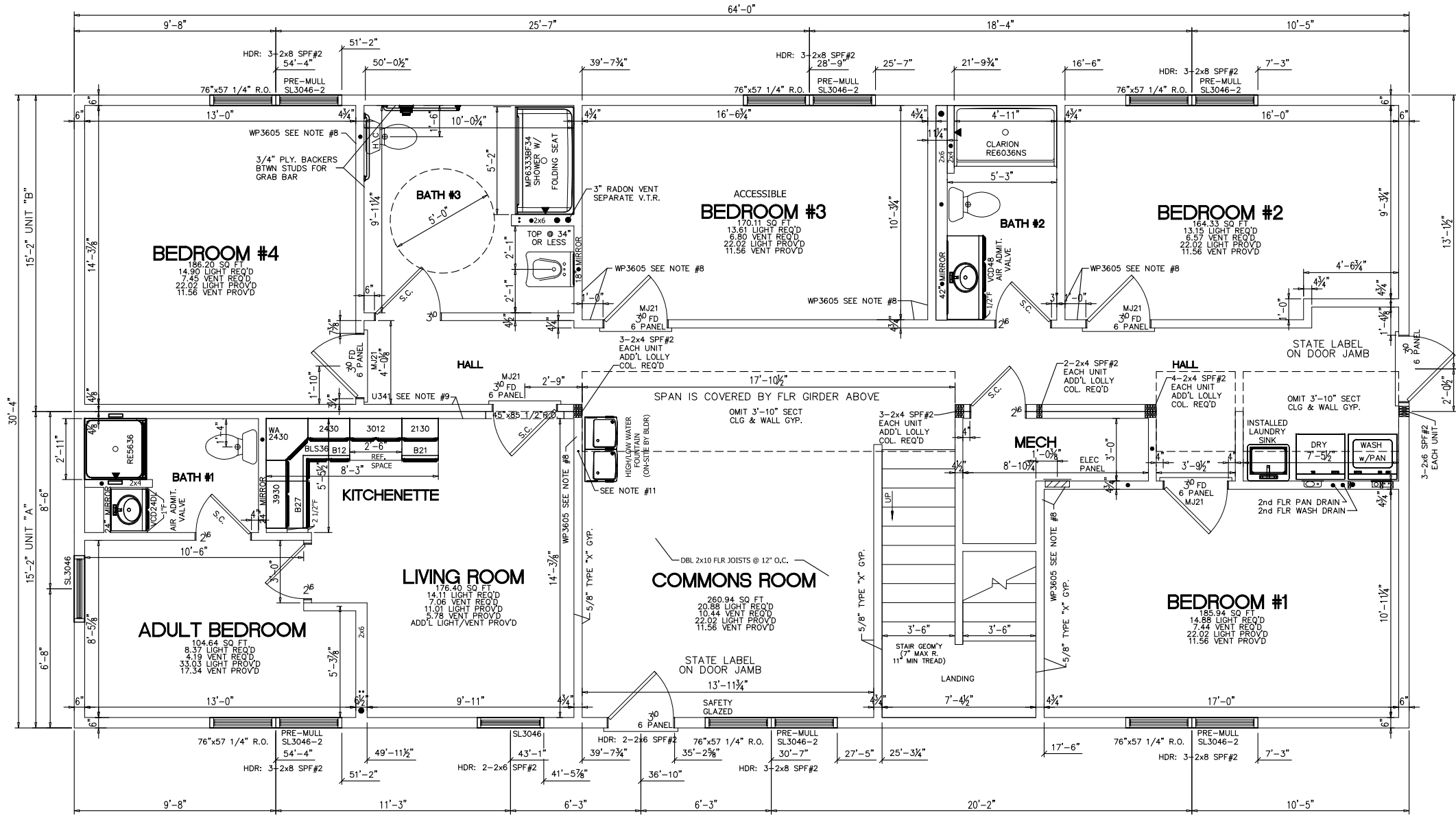
FIRE RATINGS:
EXTERIOR WALLS ARE BASED ON SET BACK DISTANCE (VERIFY W/ PLOT PLAN)
SLEEPING ROOM SEPERATION WALLS BASED ON 420.2, 1-HOUR RATED (SECTION 708)
HORIZONTAL SEPERATION OF 1ST STORY CEILING, 1-HOUR RATED (SECTION 711.2.4.3)
(SUPPORTING CONSTRUCTION OF THE REQUIRED HORIZONTAL SEPERATION IS NOT REQUIRED IN VB CONSTRUCTION)(18 OBC 711.2.3 EXCEPTION 2)
CORRIDORS (17 OBC 1020.1), WITH SPRINKLERS, CORRIDOR WALLS ARE NOT REQUIRED UNLESS OCCUPANT LOAD IS GREATER THAN 10
(2ND LEVEL IS LESS THAN 10, BUT 1ST STORY IS GREATER THAN 10 OCCUPANTS FROM BOTH LEVELS)

ACCESSIBILITY:
ONE ACCESSIBLE UNIT (NOT TYPE A, BUT ACCESSIBLE), ONE SLEEPING ROOM REQUIRED TO BE ACCESSIBLE
(17 OBC 1107.6.2.3.1>TABLE 1107.6.1.1 THAT COMPLIES WITH 09 ICC A117.1 1002)
ALL 1ST LEVEL UNITS ARE REQUIRED TO BE TYPE B (17 OBC 1107.6.2.3.2 THAT COMPLIES WITH 09 ICC A117.1 1004)
(2ND LEVEL IS EXEMPT AS THERE IS NO ELEVATOR)
1ST LEVEL BATH #3 IS REQUIRED TO BE ACCESSIBLE (17 OBC 1109.2 THAT COMPLIES WITH 09 ICC A117.1 603)
(THE PRIVATE BATH IS EXEMPT PER 1109.2 EXCEPTION 2)

SPRINKLERS:
NFPA 13R IS PERMITTED (17 OBC 903.3.1.2)
FIRE ALARMS ARE NOT REQUIRED (17 OBC 907.2.9)
SMOKE ALARMS ARE REQUIRED IN ALL SLEEPING ROOMS, OUTSIDE THESE ROOMS AND ON EACH STORY (SECTION 907.2.9.2>907.2.11.2)

PLUMBING:
MINIMUM PLUMBING FACILITIES FOR R-2 DORMITORY (17 OBC 2902.1)
WATER CLOSET: 1 PER 10 OCCUPANTS
TUB/SHOWER: 1 PER 8 OCCUPANTS
SERVICE SINK: 1 REQUIRED
DRINKING FOUNTAIN: 1 PER 100 OCCUPANTS. WHERE 1 IS REQ'D, AN ADDITIONAL 1 IS NEEDED AT ACCESSIBLE HEIGHT

EGRESS:
OCCUPANT LOAD: 200 GROSS, 10 OCCUPANTS PER FLOOR, 20 OCCUPANTS TOTAL
WATER CLOSET: 1 PER 10 OCCUPANTS
TUB/SHOWER: 1 PER OCCUPANTS



- NOTES:
- 2x6 EXT WALLS @ 16" O.C./2x4 MARR WALLS @ 16" O.C. (EXCEPT AS NOTED)
 - 9'-0" CLG HT.
 - 2x10 SPF#2 FLOOR JOISTS @ 16" O.C.
 - ROOF SYSTEM TO BE 16" O.C.
 - SILVERLINE 3000 SERIES DOUBLE HUNG WINDOWS
 - BASED ON 115 VULT WIND LOAD & EXPOSURE "B"
 - SITE LOCATION: GENEVA, OH; ASHTABULA COUNTY; 40 PSF GROUND SNOW LOAD
 - 1 LAYER 5/8" TYPE "X" GYP. BOTH SIDES (ONE SIDE-MARR. WALL) OVER 2x4 STUDS (W.P. SHEATHING GYP-EXT. WALL) @ 16" O.C., ATTACH W/6d CEMENT COATED NAILS @ 7" O.C. (#WP3605)
 - 1 LAYER 5/8" TYPE "X" GYP. ONE SIDE @ MARR. WALL OVER 2x4 STUDS @ 16" O.C., (CROSS BRACED AT MID HEIGHT), ATTACH W/6d CEMENT COATED NAILS @ 7" O.C. (U341)
 - 1 LAYER 5/8" TYPE "C" GYP. APPLIED PARALLEL TO 2x6 CLG. JOISTS, ATTACH W/6d CEMENT COATED NAILS (1 7/8"L, 0.0915"D. SHANK, 1/4"D. HEAD) @ 7" O.C. INST BLOCKING @ 7'-0" (#L539)
 - ONE 3/4" SUPPLY LINE PROVIDED FOR SECOND FLOOR WATER FOUNTAINS
 - FLR GIRDER IN SECOND FLOOR TO BE: 2-1 1/2"x20" LVL (PER MODULE)
 - CLG GIRDER OVER HALL/WASH-DRYER TO BE: 2-1 1/2"x11 1/4" LVL (PER MODULE)
 - BLDR INSTALLED HEATING SYSTEM TO COVER A 74,000 BTU LOSS
 - HEAT WAS CALCULATED W/ R-30 FLOOR INSULATION.

- OHIO
- INTERNATIONAL RESIDENTIAL CODE W/OH AMENDMENTS
 - OH PLUMBING CODE
 - INTERNATIONAL ENERGY CONSERVATION CODE
 - NATIONAL ELECTRICAL CODE (NEC)

*** WINDOWS INSTALLED WITHIN 24" OF THE FINISHED FLOOR, THE BUILDER WILL INSTALL WINDOW GUARDS IN ACCORDANCE WITH IRC (2018 IRC, R312.2)

ALL INTERIOR BEDROOM DOORS AND EXTERIOR DOORS TO BE STEEL FRAME FIRE DOORS L539 CEILING ASSEMBLY REQUIRED THROUGHOUT FIRST FLOOR (SEE NOTE #10)
FIRE COLLARS REQUIRED ON PLUMBING PIPES OVER 2" IN DIAMETER

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045

CHAMPION
MODULAR

BRAND:

excel
HOMES

BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:

43772
COMMERICAL

TITLE:

FIRST FLOOR
FLOOR PLAN

DRAWN BY: SAN

DATE: 02-04-22

SCALE: 3/16" = 1'-0"

FILENAME: 43772 FN2

PD1

SHEET:

1ST FLR

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10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045

CHAMPION
MODULAR

BRAND:

excel
HOMES

BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:

43772
COMMERICAL

TITLE:

SECOND FLOOR
FLOOR PLAN

DRAWN BY: SAN

DATE: 02-04-22

SCALE: 3/16" = 1'-0"

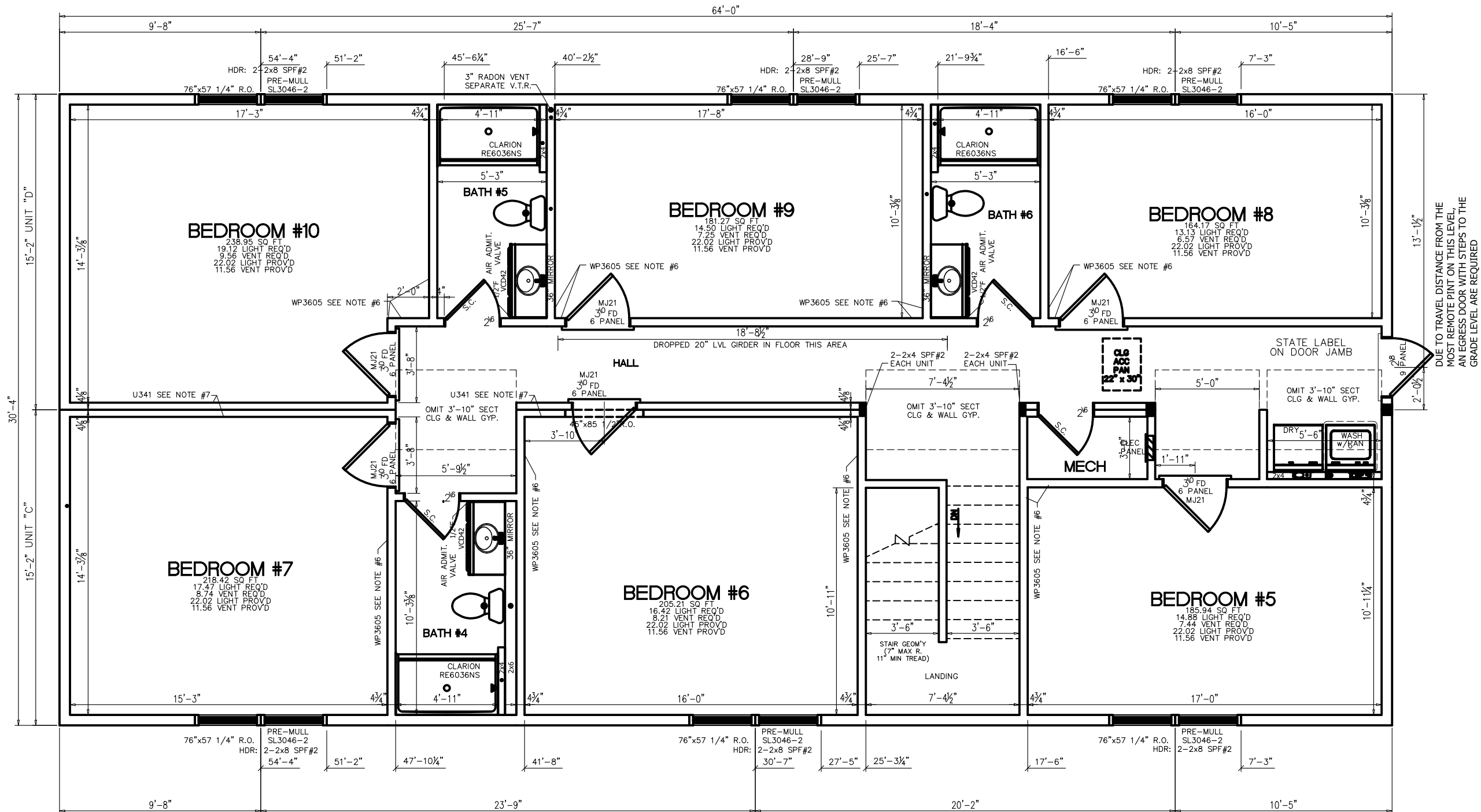
FILENAME: 43772 FN2

PD1

SHEET:

2ND FLR

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NOTES:

- 2x6 EXT WALLS @ 16" O.C./2x4 MARR WALLS @ 16" O.C. (EXCEPT AS NOTED)
- 9'-0" CLG HT.
- 2x10 SPF#2 FLOOR JOISTS @ 16" O.C.
- ROOF SYSTEM TO BE 16" O.C.
- SILVERLINE 3000 SERIES DOUBLE HUNG WINDOWS
- 1 LAYER 5/8" TYPE "X" GYP. BOTH SIDES (ONE SIDE-MARR. WALL) OVER 2x4 STUDS (W.P. SHEATHING GYP-EXT. WALL) @ 16" O.C., ATTACH w/6d CEMENT COATED NAILS @ 7" O.C. (#WP3605)
- 1 LAYER 5/8" TYPE "X" GYP. ONE SIDE @ MARR. WALL OVER 2x4 STUDS @ 16" O.C., (CROSS BRACED AT MID HEIGHT), ATTACH w/6d CEMENT COATED NAILS @ 7" O.C. (U341)
- CLG BEAM OVER HALL/WASH-DRYER TO BE: 2-1 1/2"x9 1/4" LVL (PER MODULE)
- CLG BEAM OVER STAIR HALL TO BE: 1-1 1/2"x7 1/4" LVL (PER MODULE)
- FLR GIRDER UNDER HALL/WASH-DRYER TO BE: 2-1 1/2"x9 1/4" LVL (PER MODULE)

-- NO FIRE RATING REQUIRED ON THE 2ND STORY CEILING --

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045

CHAMPION
MODULAR

BRAND:

excel
HOMES

BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:

43772
COMMERICAL

TITLE:

FIRST FLOOR
ELECTRICAL PLAN

DRAWN BY: SAN

DATE: 02-04-22

SCALE: 3/16" = 1'-0"

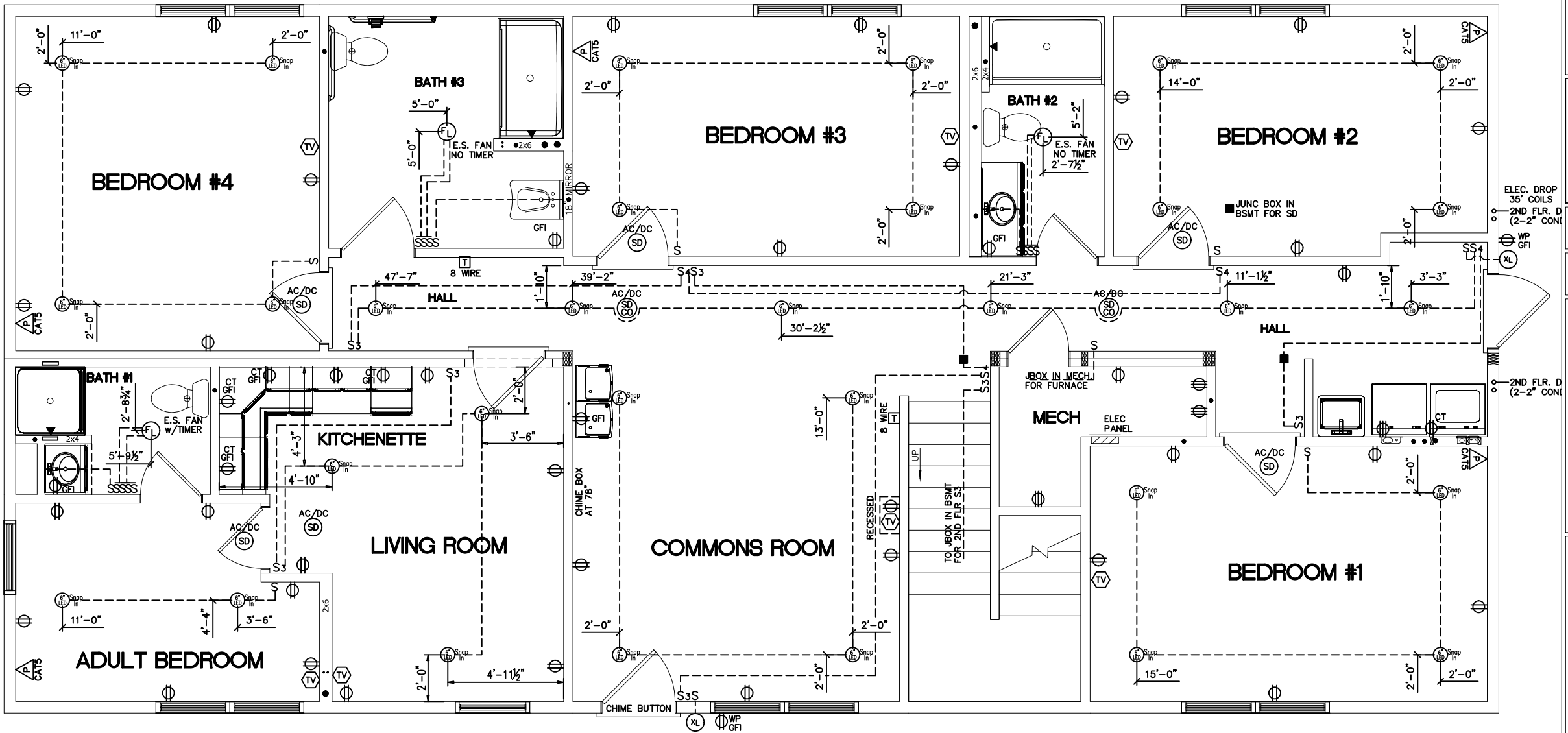
FILENAME: 43772 FN2

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SHEET:

1ST ELEC

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2014 NEC

- * THIS PLAN MAY HAVE ADDITIONAL APPLIANCES/FIXTURES ADDED TO THE ELECTRICAL SCHEMATIC AND/OR PANEL BOX PROVIDING THE LOADING DOESN'T EXCEED THE MAXIMUM ALLOWED BY STATE & LOCAL CODES.
- * E-CUTOFF SWITCH ON-SITE BY OTHERS PER ALL STATE & LOCAL CODES.
- * ALL BRANCH CIRCUITS SUPPLYING 15 & 20 AMPERE OUTLETS IN LIVING SPACES ARE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12, 2014 NEC. EXCEPT THOSE OUTDOORS, IN UNFINISHED BASEMENT BATHROOMS AND GARAGES
- * PER 406.12 OF 2014 NEC ALL 125 -VOLT, 15 AND 20 AMP RECEPTS INSTALLED IN AREAS SPECIFIED BY 210.52, SHALL BE LISTED TAMPER RESISTANT TYPE.
- * 50# LIGHT BOXES REQUIRED

MAXIMUM WIRES IN 2" CONDUIT
(6) #12 GAUGE
(8) #14 GAUGE
LOW VOLTAGE LINES IN SEPARATE CONDUIT

THIS LEVEL:

- * ALL SWITCHES, RECEPTS, PANEL BREAKERS & THERMOSTATS ARE TO BE MOUNTED BETWEEN 15" (MIN.) & 48" (MAX.) ABOVE THE FINISHED FLOOR TO THE OPERABLE PORTION.

ALL SD IN BEDROOMS TO HAVE
IONIZATION TECHNOLOGY

1-HOUR ASSEMBLY OVER LIGHTS
PENETRATING THE 1-HOUR CEILING

	DUPLEX RECEPT		RECESSED EYEBALL LIGHT
	DUPLEX RECEPT SWITCHED		RECESSED SPOT LIGHT
	GROUND FAULT INTERRUPTER		RECESSED LIGHT
	WEATHER RESISTANT GROUND FAULT INTERRUPTER		KITCHEN FLOURESCENT LT.
	COUNTER TOP RECEPT		PHONE JACK
	DISHWASHER RECEPT		TELEVISION JACK
	DISPOSAL RECEPT		SMOKE ALARM
	240 VOLT RECEPT		PHOTO ELECTRIC SMOKE ALARM
	MICROWAVE RECEPT		PANEL BOX
	CHIME BOX AT 78		THERMOSTAT
	CHIME BUTTON		ELECTRIC HEATER
	FAN-LIGHT COMBO		JUNCTION BOX
	FAN		LIGHT BOX
	LIGHT (INTERIOR)		CIRCUIT NUMBER
	LIGHT (EXTERIOR)		RECESSED FLOUR'T LT.
	SINGLE SWITCH		
	3 WAY SWITCH		
	4 WAY SWITCH		

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

CHAMPION[®] MODULAR

BRAND:

excel
HOMES

GENEVA OWNER

DORM

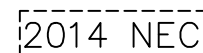
APPROVERS SEAL

CT: 43772
COMMERICAL

SECOND FLOOR FLOOR PLAN

2ND ELEC

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- * E-CUTOFF SWITCH ON-SITE BY OTHERS PER ALL STATE & LOCAL CODES.
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- * 50# LIGHT BOXES REQUIRED

ALL SD IN BEDROOMS TO HAVE
IONIZATION TECHNOLOGY

 DUPLEX RECEPT  DUPLEX RECEPT SWITCHED GFI  GROUND FAULT INTERRUPTER WP GFI  WEATHER RESISTANT GROUND FAULT INTERRUPTER CT  COUNTER TOP RECEPT DW  DISHWASHER RECEPT GD  DISPOSAL RECEPT  240 VOLT RECEPT MW  MICROWAVE RECEPT CHIME BOX AT 78"  CHIME BUTTON  FAN-LIGHT COMBO  FAN  LIGHT (INTERIOR)  LIGHT (EXTERIOR) S SINGLE SWITCH S3 3 WAY SWITCH S4 4 WAY SWITCH	 RECESSED EYEBALL LIGHT  RECESSED SPOT LIGHT  RECESSED LIGHT  KITCHEN FLOURESCENT LT.  PHONE JACK  TELEVISION JACK AC/DC  SMOKE ALARM AC/DC  PHOTO ELECTRIC SMOKE ALARM  PANEL BOX  THERMOSTAT  ELECTRIC HEATER  JUNCTION BOX  LIGHT BOX OMIT FIXTURE  CIRCUIT NUMBER RF121-240E  RECESSED FLOUR'T LT. F.O.-4R 1/8"x11 1/4"
---	---

BUILDER / OWNER SIGNATURES:

DATE: _____

TITLE:

CHAMPION FACTORY 041
CHAMPION MODULAR, INC.
10642 S. SUSQUEHANNA TRAIL
LIVERPOOL, PA 17045



BRAND:



BUILDER:

GENEVA OWNER

CUSTOMER/PROJECT:

DORM

ENGINEER'S / ARCHITECT'S SEAL

APPROVERS SEAL

MODIFICATIONS

PROJECT:

43772
COMMERICAL

TITLE:

FOUNDATION
PLAN

DRAWN BY: SAN

DATE: 02-04-22

SCALE: 3/16" = 1'-0"

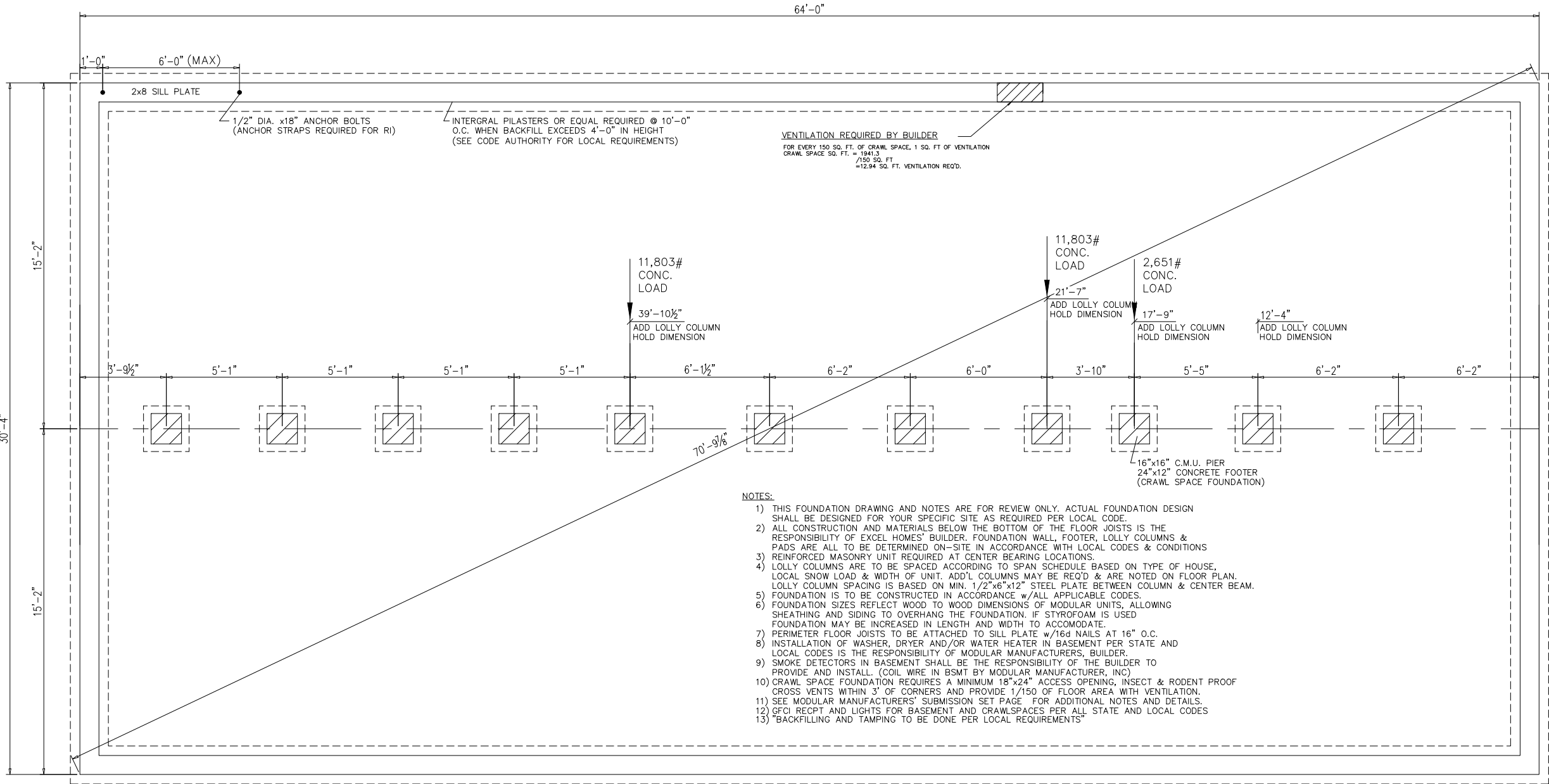
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SHEET:

FOUNDATION

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ACCESS TO CRAWL SPACE TO BE LOCATED AND PROVIDED BY BUILDER

FOR ESTIMATING PURPOSES ONLY - NOT FOR CONSTRUCTION

BUILDER / OWNER SIGNATURES:

ACCEPTED BY:

DATE:

TITLE:

SPIRE INSTITUTE DORM VILLAGE

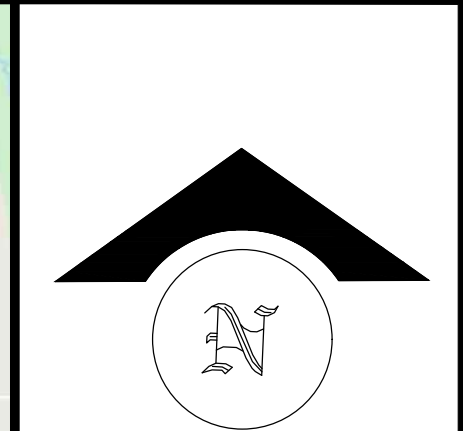
PHASE 2B CONSTRUCTION PLANS

HARPERSFIELD TOWNSHIP, ASHTABULA COUNTY, OHIO

NOTE: THE SURVEY INFORMATION IN THESE PLANS REFLECT THE FLOWN AERIAL SURVEY BY CT CONSULTANTS PERFORMED IN NOV/DEC 2020. THE TOPOGRAPHY SHOWN REFLECTS A GROUND OCCUPIED SURVEY PERFORMED BY ETA BETWEEN MAR 2020-SEPT 2020. DORM VILLAGE PHASE 2 IMPROVEMENS, INCLUDING UNITS 6 & 7, GRAVEL DRIVE, SIDEWALKS & UNDERGROUND UTILITIES REFLECT RECORD DESIGN INFORMATION AND THIS INFORMATION HAS NOT BEEN VERIFIED OR ASBUILT. CONTRACTOR SHALL VERIFY THIS INFORMATION AS WELL AS TOPOGRAHY WITHIN THE DISTURBED LIMITS OF DORM VILLAGE 2.



VICINITY MAP
NTS



THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN AS APPROXIMATE AND HAVE NOT BEEN VERIFIED BY MG CIVIL DESIGN, LLC. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

MG CIVIL DESIGN, LLC OR OWNER WILL NOT ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF PERSONS ENGAGED IN THE WORK, OF ANY ON OR OFF-SITE STRUCTURE OR OF ANY OTHER PERSONS ON OR NEAR THE CONSTRUCTION SITE. THE SAFETY OF THE CONSTRUCTION SITE AND PLACES NEAR ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THESE DRAWINGS ARE THE PROPERTY OF MG CIVIL DESIGN AND NO PRODUCTION OF THESE DRAWINGS SHALL OCCUR WITHOUT THE WRITTEN CONSENT OF MG CIVIL DESIGN, LLC.



SPIRE INSTITUTE
DORM VILLAGE 2B
TITLE SHEET



REVISIONS
06-10-22 OWNER REVIEW
06-17-22 REV. UTIL. #10
10-14-22 GRADING PLAN
11-08-22 OEPA SUBMITTAL

SCALE:

PROJECT NUMBER: 20004
PROJECT ADDRESS: 5201 SPIRE CIRCLE, GENEVA, OHIO 44041
DATE: MAY 1, 2022
SHEET NUMBER:

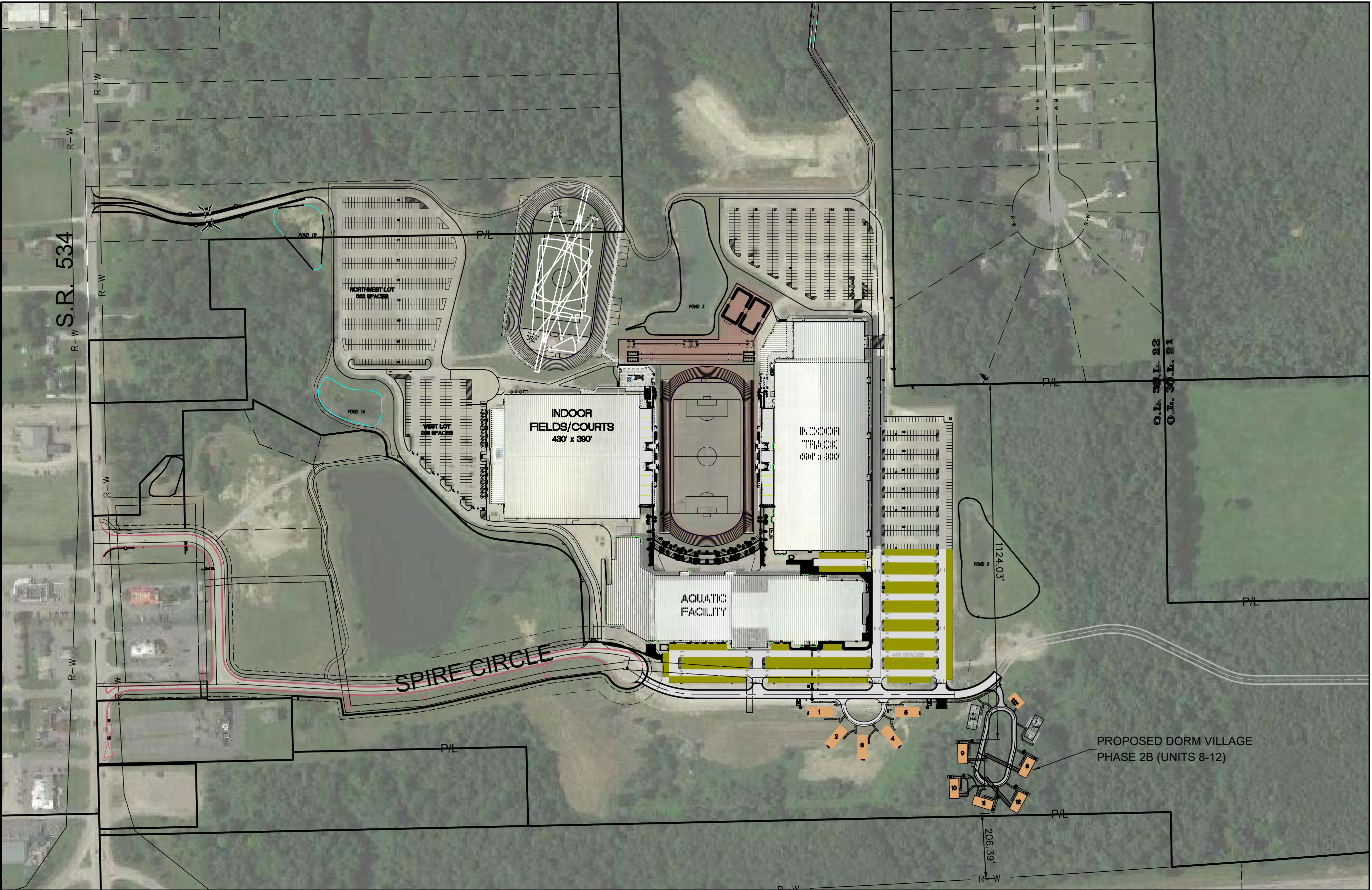
1.0

DEVELOPMENT TEAM

OWNER GENEVA OWNER, LLC 100 PAINTERS MILL ROAD SUITE 310 OWINGS MILLS, MD 21117 CONTACT: JONATHAN EHRENFELD PHONE: 443-278-9302	SURVEYOR ENGLE, TROTTER & ASSOCIATES, LLC 5473 RIVER SUMMIT NORTH ROYALTON, OHIO 44133 CONTACT: DAN ENGLE PHONE: 216.235.4322
CIVIL ENGINEER MG CIVIL DESIGN, LLC. 255 PARK PLACE CHAGRIN FALLS, OHIO 44022 CONTACT: DAN BARCIKOSKI, P.E. PHONE: 216-408-6074	WETLAND CONSULTANT HZW ENVIRONMENTAL CONSULTING 6105 HEISLEY ROAD MENTOR, OHIO 44060
ARCHITECT TDA 4135 ERIE ST. WILLOUGHBY, OHIO 44094 CONTACT: RYAN SCHMIT, RA PHONE: 440-269-2266	M/E/P THORSON BAKER + ASSOCIATES 3030 W. STREETSBORO RICHFIELD, OH 44286 CONTACT: LAURIE BORCHERT, LEED AP PHONE: 330-659-6688

GOVERNING AGENCIES / UTILITY CONTACTS

WATER ASHTABULA COUNTY ENVIRONMENTAL SERVICES 25 WEST JEFFERSON ST. JEFFERSON, OH 44047 CONTACT: ED SPOOR PHONE: 440-969-4772	STORM SEWER ASHTABULA COUNTY ENGINEER 186 E SATIN ST. JEFFERSON, OH 44047 CONTACT: TOM PARTRIDGE JR., P.E., P.S. PHONE: 440.576.3707
SANITARY SEWER CITY OF GENEVA 44 N. FOREST ST GENEVA, OH 44041 CONTACT: BRANDON AVERILL, WASTEWATER SUPERINTENDENT PHONE: 440-466-4228	EROSION & SEDIMENT CONTROL ASHTABULA COUNTY SWCD 39 WALL STREET JEFFERSON, OH 44047 PHONE: 440-576.4946
HARPERSFIELD TWP FIRE DEPARTMENT CHIEF FRANK HENRY 5516 CORK COLD SPRINGS RD. GENEVA, OH 44041 PHONE: 440-376-4816	GENEVA FIRE DEPARTMENT CHIEF DALE ARKENBURG 44 N FOREST ST GENEVA, OH 44041 PHONE: 440-466-4675
GAS DOMINION EAST OHIO 320 SPRINGSIDE DR., SUITE 320 AKRON, OH 44333 CONTACT: PHONE: 330-664-2469	TELEPHONE WINDSTREAM COMMUNICATIONS 4616 PARK AVE ASHTABULA, OH 44004 CONTACT: PHONE: 440-993-1633
ELECTRIC FIRST ENERGY 7757 AUBURN ROAD CONCORD, OH 44077 CONTACT: PHONE: 440-350-7767	CABLE SPECTRUM 2904 STATE RD ASHTABULA, OH 44004 CONTACT: PHONE: 440-361-0023
	HARPERSFIELD TWP ZONING 4858 CORK COLD SPRINGS RD. GENEVA, OH 44041 ZONING ADMINISTRATOR: LARRY LISTER PHONE: 440-466-4240



OHIO E.P.A. WATER APPROVED BY O.E.P.A. LETTER DATED: XX-XX-XXXX PERMIT NUMBER: XXXXXXXX	SANITARY APPROVED BY O.E.P.A. LETTER DATED: XX-XX-XXXX PERMIT NUMBER: PTI XXXXXXXX
NPDES PERMIT APPROVAL DATE: XX-XX-XXXX PERMIT NUMBER: 3GCXXXXX*AG	

SHEET INDEX

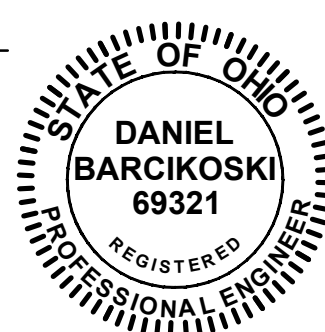
1.0	TITLE SHEET
2.0	EXISTING CONDITIONS & DEMOLITION PLAN
3.0	SITE PLAN
4.0	UTILITY PLAN
4.1	PLAN & PROFILE (SEWER & WATER EXTENSION)
5.0-5.3	GRADING & STORM SEWER PLAN
6.0	SWPPP (DURING CONSTRUCTION)
6.1	SWPPP (POST CONSTRUCTION BMP PLAN)
6.2-6.3	SWPPP NOTES & DETAILS
7.0-7.1	MISC. DETAILS

ANTICIPATED CONSTRUCTION SCHEDULE

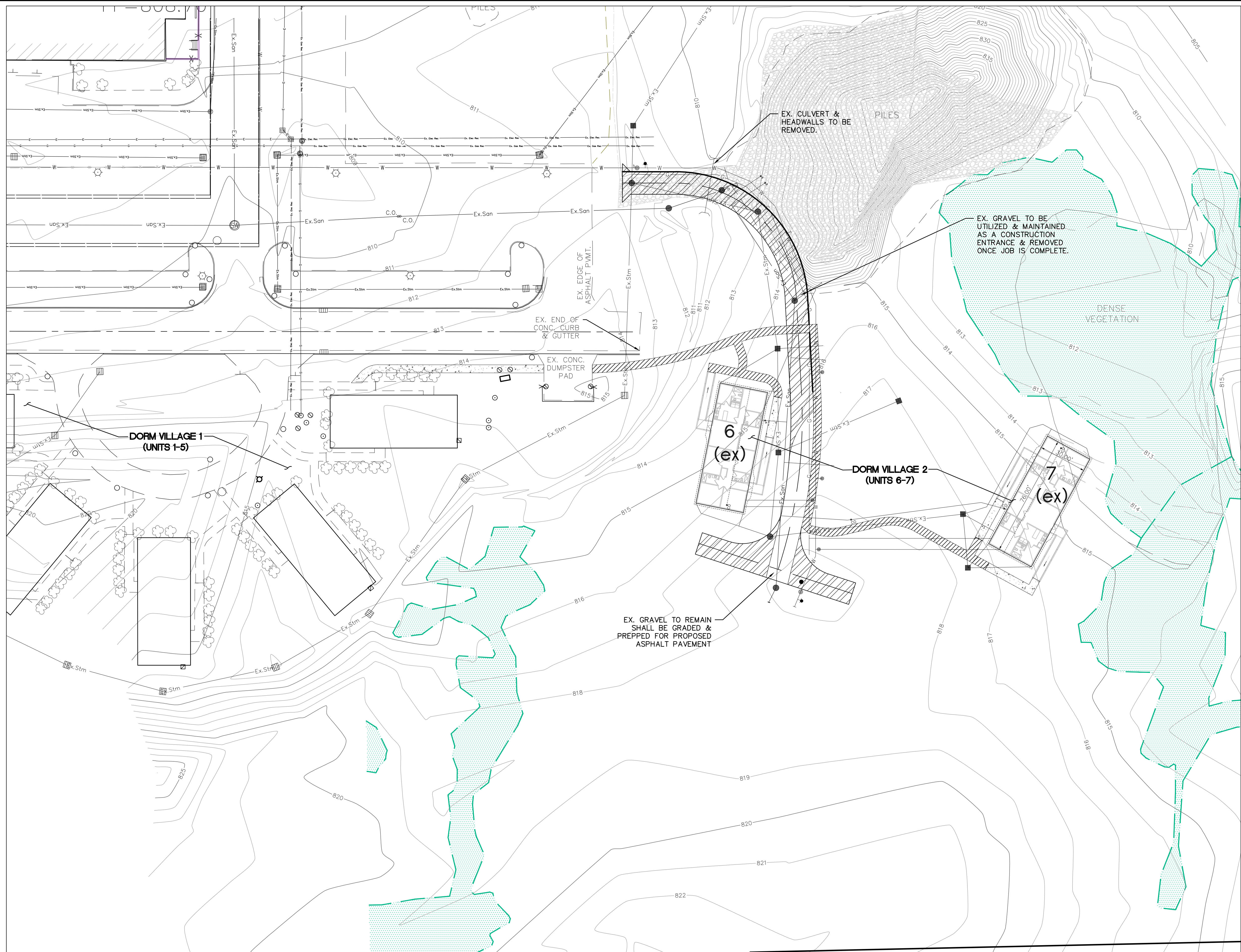
PRE-CONSTRUCTION MEETING: 12/01/22
CONSTRUCTION: 12/01/22-11/30/23

SUBMITTED BY:

SUBMITTED BY: DANIEL BARCIKOSKI, PE REG ENGINEER NO. 69321



DATE: 11/08/2022

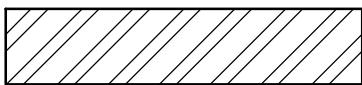
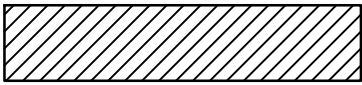
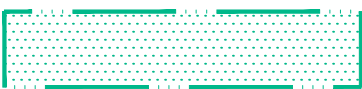


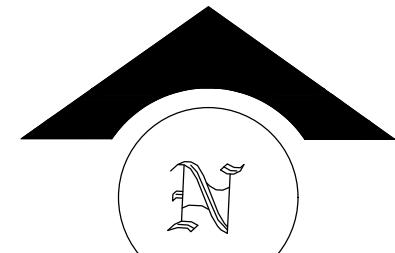
GENERAL DEMOLITION NOTES:

1. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY AND STATE.
2. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
3. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE SURVEYOR AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
4. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED BY THE CONTRACTOR WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. NO BUILDING SHALL BE DEMOLISHED UNTIL ALL UTILITIES HAVE BEEN PROPERLY ABANDONED/REMOVED PER THE UTILITY COMPANIES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL OUPS PRIOR TO CONSTRUCTION, AND TO HAVE ALL EXISTING UTILITIES LOCATED & MARKED.
6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL. ALL TRAFFIC CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION), AND ODOT ITEM 614.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY THE GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FOUNDATIONS, DRAINAGE, STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERLUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL AS SPECIFIED IN THE GEOTECHNICAL REPORT AND/OR AS DIRECTED BY AN ON-SITE GEOTECHNICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING JOB SITE SAFETY PER OSHA REQUIREMENTS.
9. PRIOR TO THE START OF DEMOLITION AND CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
10. CONTRACTOR SHALL MAINTAIN A WELL-DRAINED SITE, FREE OF STANDING WATER DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY DRAINAGE MEASURES DURING CONSTRUCTION.
11. CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGNS, ETC. TO WARN AND KEEP PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
12. EXTENTS OF DEMOLITION WORK IS NOT LIMITED TO ONLY WHAT IS SHOWN TO BE DEMOLISHED ON THIS PLAN. DEMOLITION WORK MUST BE COMPLETE SO THE PROPOSED STRUCTURES AND APURTENANCES CAN BE CONSTRUCTED.
13. THE REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL BE IN ACCORDANCE WITH ODOT ITEM 202.
14. STATE AND LOCAL CODE REQUIREMENTS SHALL CONTROL THE DISPOSAL OF DEBRIS RESULTING FROM THE REMOVAL OPERATION.
15. ALL MATERIALS AND STRUCTURES DESIGNATED AS "TO BE REMOVED" SHALL BE DISPOSED OF OFF SITE AND AT THE COST OF THE CONTRACTOR.
16. ALL TRENCHES, HOLES, AND PITS RESULTING FROM THE REMOVAL AND ABANDONMENT OF ANY STRUCTURE FOUNDATION OR OBSTRUCTION SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT OR ON-SITE GEOTECHNICAL ENGINEER.
17. CONTRACTOR SHALL UTILIZE EX. DRIVEWAY AS A CONSTRUCTION ENTRANCE AND EXIT DURING DEMOLITION. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES DURING DEMOLITION.

NOTE: THIS SURVEY REFLECTS THE FLOWN AERIAL SURVEY BY CT CONSULTANTS PERFORMED IN NOV/DEC 2020. THE TOPOGRAPHY SHOWN REFLECTS A GROUND OCCUPIED SURVEY PERFORMED BY ETA BETWEEN MAR 2020-SEPT 2020. DORM VILLAGE PHASE 2 IMPROVEMENS, INCLUDING UNITS 6 & 7, GRAVEL DRIVE, SIDEWALKS & UNDERGROUND UTILITIES REFLECT RECORD DESIGN INFORMATION AND THIS INFORMATION HAS NOT BEEN VERIFIED OR ASBUILT. CONTRACTOR SHALL VERIFY THIS INFORMATION AS WELL AS TOPOGRAHY WITHIN THE DISTURBED LIMITS OF DORM VILLAGE 2.

LEGEND

-  REMOVE EXISTING GRAVEL PAVEMENT
-  REMOVE EXISTING CONCRETE SIDEWALK/PAVEMENT TO NEAREST JOINT
-  EXISTING WETLAND



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(216) 408-6074

SPIRE INSTITUTE
DORM VILLAGE 2B



EXISTING CONDITIONS & DEMOLITION PLAN

REVISIONS

06-10-22 OWNER REVIEW

06-17-22 REV. UTIL. #10

10-14-22 GRADING PLAN

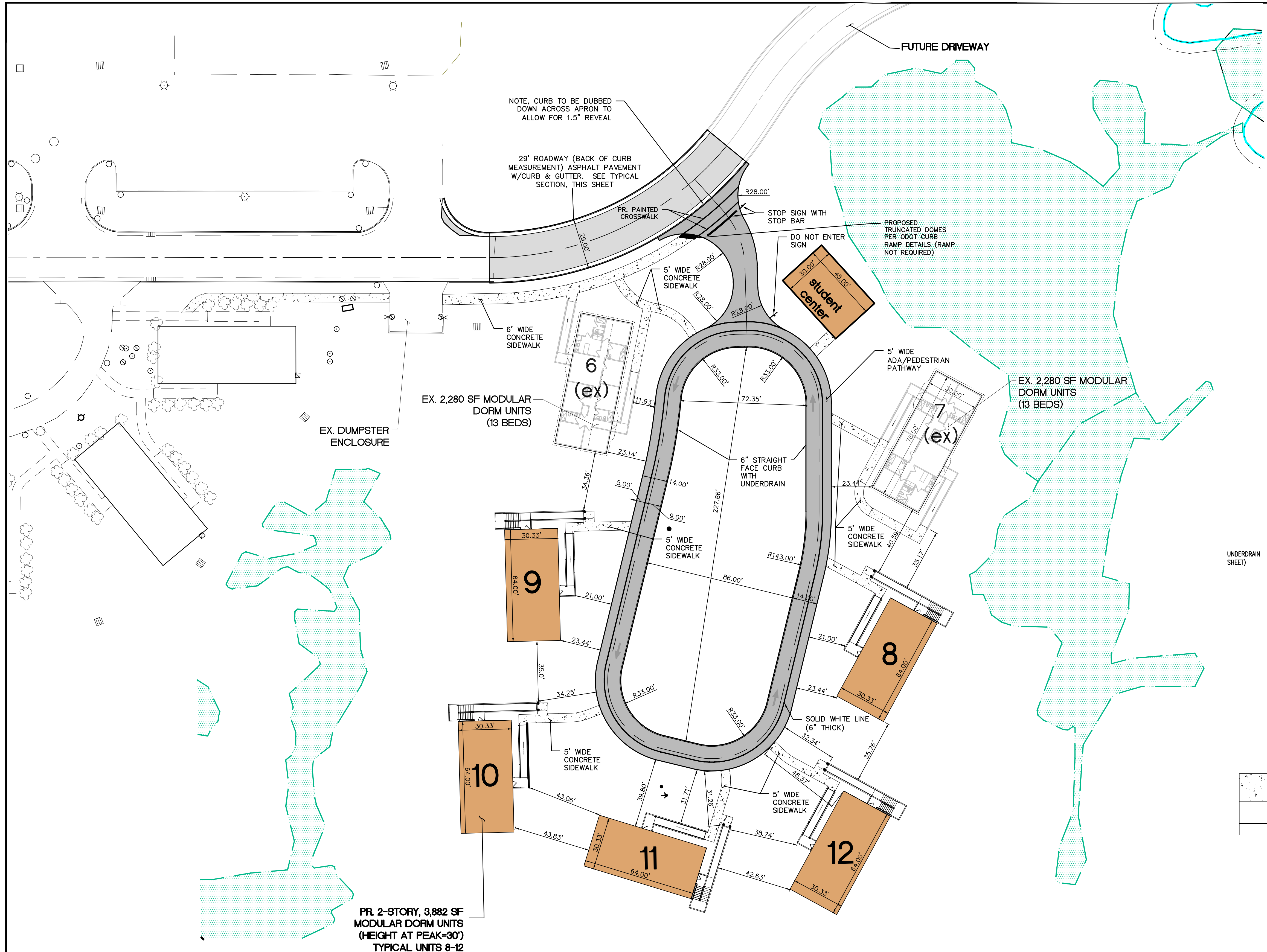
11-08-22 OEPA SUBMITTAL

SCALE: 1 INCH = 30 FEET


PROJECT NUMBER:
20004
PROJECT ADDRESS:
5201 SPIRE CIRCLE
GENEVA, OHIO 44041

DATE:
MAY 1, 2022

SHEET NUMBER:

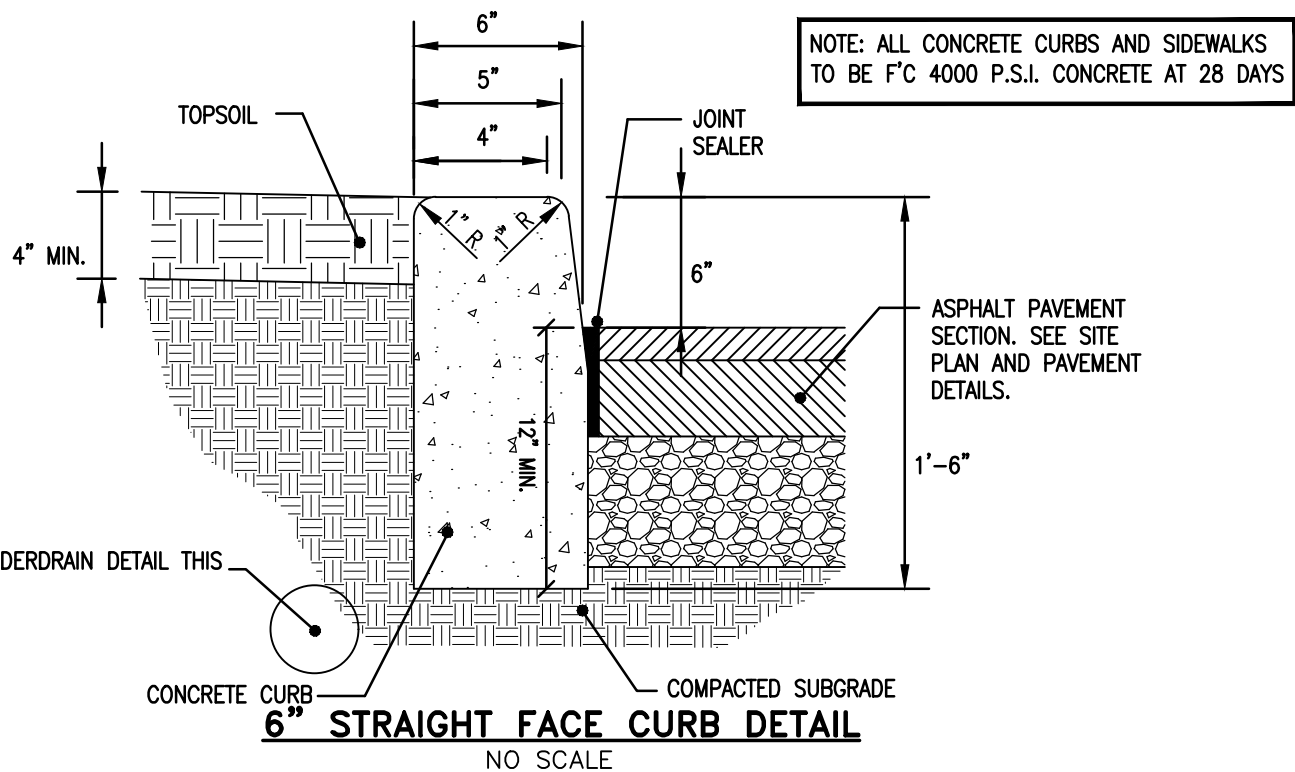


LEGEND

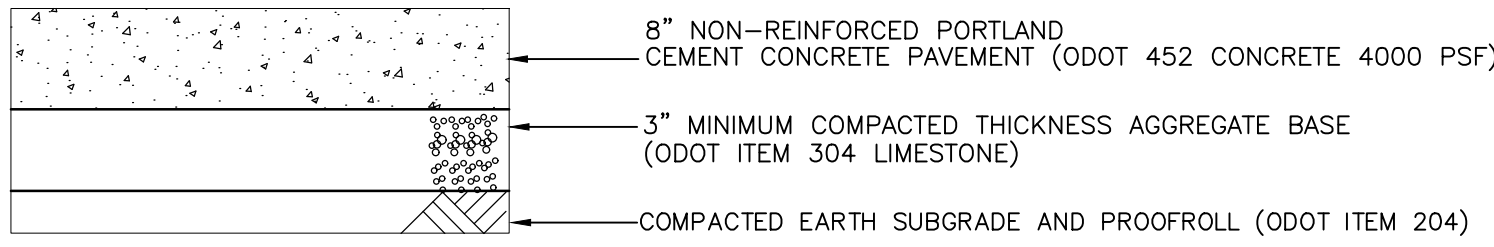
- PROPOSED CURBED ASPHALT ROADWAY PAVEMENT (SEE TYPICAL SECTION, THIS SHEET)
- PROPOSED ASPHALT DRIVE (SEE TYPICAL SECTION, THIS SHEET)
- PROPOSED CONCRETE SIDEWALK (SEE SECTION, THIS SHEET)
- EXISTING WETLANDS

NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- PARKING LOT STRIPING & SIGNAGE SHALL BE IN ACCORDANCE WITH ODOT ITEM 641 AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.
- CONTRACTOR IS RESPONSIBLE FOR PLACING AND MAINTAINING CONSTRUCTION FENCE, SIGN, ETC. TO WARN AND KEEP PEOPLE OFF SITE FOR THE DURATION OF THE PROJECT.
- ALL DISTURBED AREAS IN NON-PAVEMENT AREAS SHALL RECEIVE 6" MIN. SCREENED TOPSOIL TO GRADES INDICATED ON THE GRADING PLAN. THESE AREAS SHALL ALSO RECEIVE PERMANENT SEEDING & MULCHING.



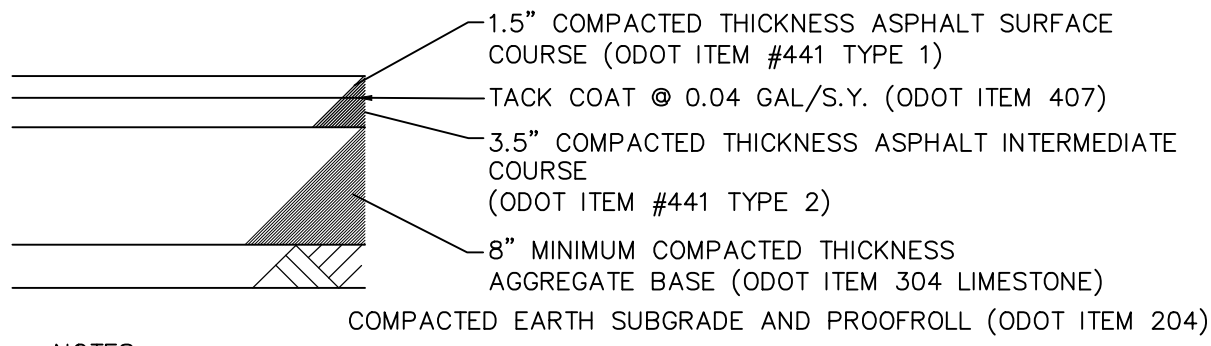
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- NOTES:
- ALL PAVEMENT TO BE PLACED AS PER STANDARD ODOT SPECIFICATIONS.
 - PROOF-ROLL AND PREPARE SUBGRADE PER GEOTECHNICAL REPORT OR DIRECTION FROM ON-SITE GEOTECHNICAL ENGINEER
 - JOINTS TO BE PER ODOT B.P. DETAILS AND SPECIFICATIONS
 - CURBING ADJACENT TO CONCRETE PAVEMENT SHALL BE PER ODOT TYPE 2-A CURB DETAIL

CONCRETE PAVEMENT

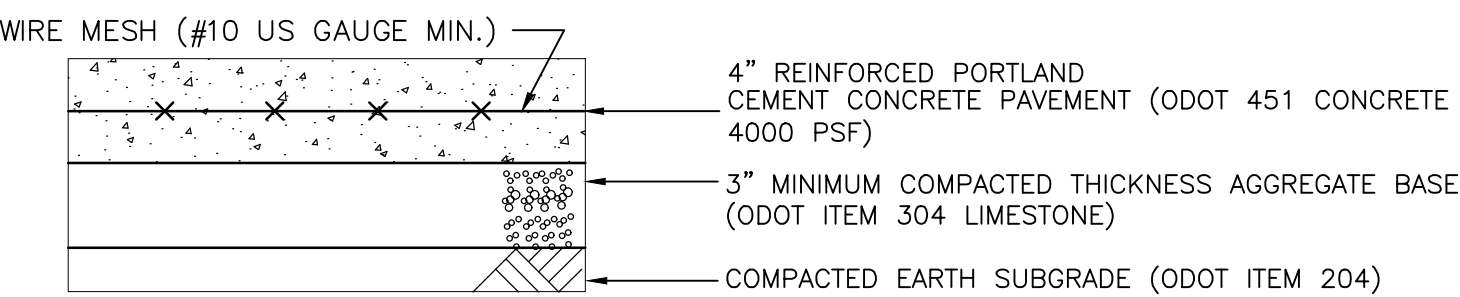
NO SCALE



- NOTES:
- ALL PAVEMENT TO BE PLACED AS PER STANDARD ODOT SPECIFICATIONS.
 - PROOF-ROLL AND PREPARE SUBGRADE PER ON-SITE GEO-TECHNICAL ENGINEER

ASPHALT DRIVE PAVEMENT SECTION

NO SCALE

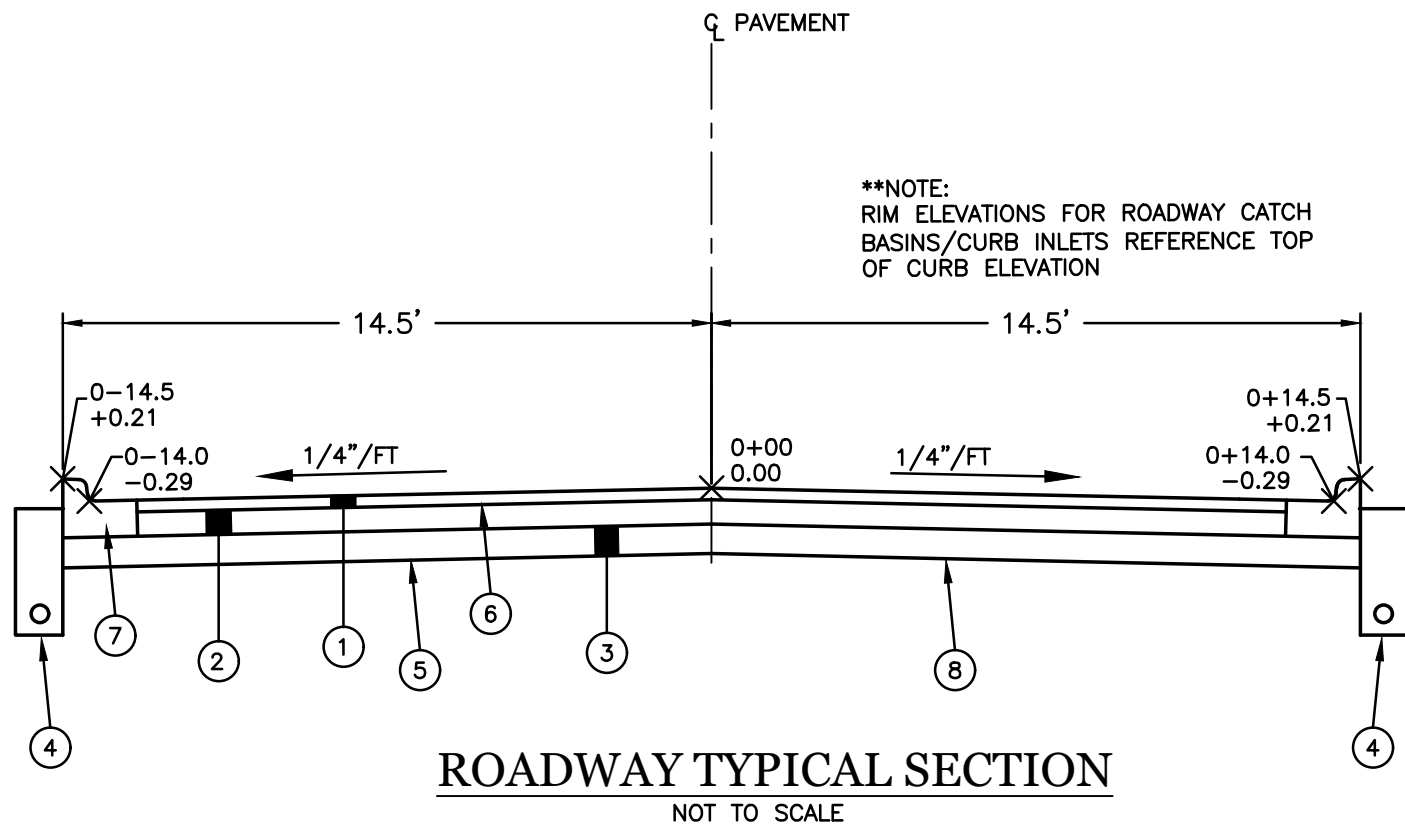


CONCRETE SIDEWALK (ON SITE)

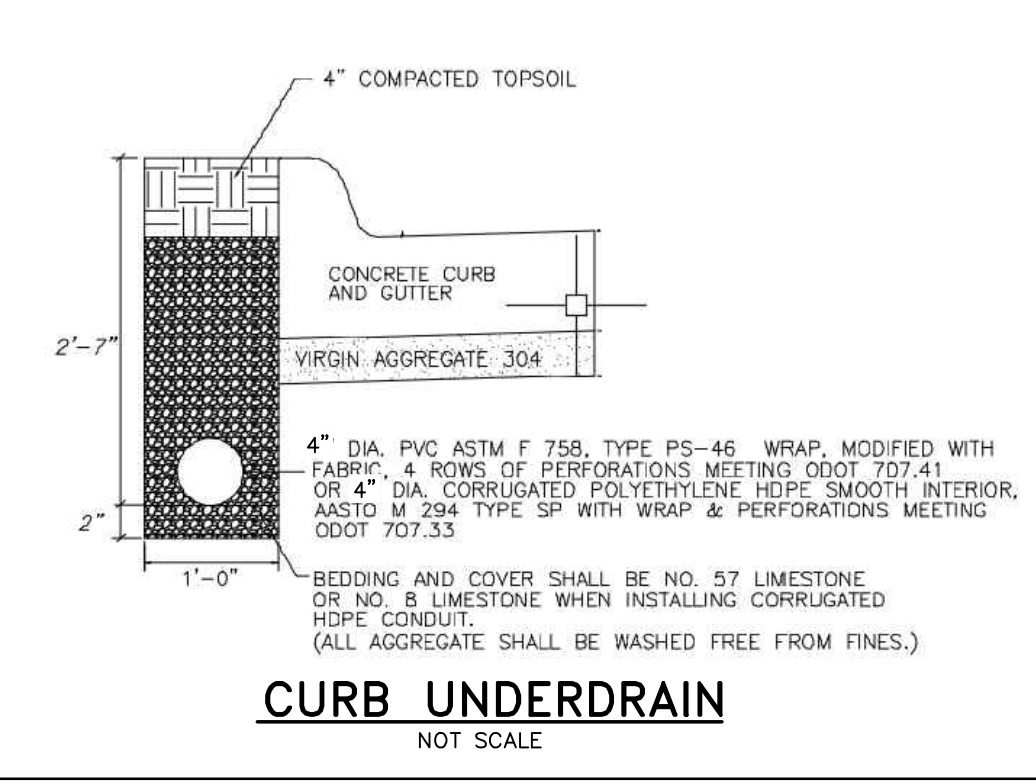
NO SCALE

ODOT SPECIFICATION REFERENCE

- ITEM 448 - 2" COMPACTED THICKNESS ASPHALT SURFACE COURSE (TYPE 1). NO RECYCLED MATERIAL.
- ITEM 301 OR 448 - 5" COMPACTED THICKNESS ASPHALT INTERMEDIATE COURSE (TYPE 2)
- ITEM 304 - 8" MIN. COMPACTED THICKNESS LIMESTONE AGGREGATE BASE
- ITEM 605 - 4" DIA. PERFORATED UNDERDRAIN WITH GRANULAR FILTER AGGREGATE NO. 8. (SEE DETAIL)
- ITEM 204 - "SUBGRADE COMPACTION & PROOF ROLLING"
- ITEM 407 - TACK COAT @ 0.04 GAL/S.Y.
- ITEM 609 - ODOT TYPE 2 CURB & GUTTER
- ITEM 712 - FILTER FABRIC



ROADWAY TYPICAL SECTION
NOT TO SCALE



CURB UNDERDRAIN
NOT SCALE

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(216) 408-6074

SPIRE INSTITUTE
DORM VILLAGE 2B

SITE PLAN

REVISIONS

06-10-22	OWNER REVIEW
06-17-22	REV. UTIL. #10
10-14-22	GRADING PLAN
11-08-22	OEPA SUBMITTAL

SCALE: 1 INCH = 30 FEET

PROJECT NUMBER: 20004
PROJECT ADDRESS: 5201 SPIRE CIRCLE, GENEVA, OHIO 44041
DATE: MAY 1, 2022
SHEET NUMBER:

3.0

OHIO E.P.A. NOTES:

1. ALL WATER MAINS SHALL BE DISINFECTED PER AWWA C651.
2. ALL WATER MAINS SHALL BE INSTALLED AND PRESSURE TESTED PER AWWA C600.
3. THE SYSTEM SHALL MAINTAIN A MINIMUM PRESSURE OF 20 PSI (140 kPa) AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. THE NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOULD NOT BE LESS THAN 35 PSI (240 kPa).
4. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
5. A 18 INCH MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE.
6. A 10 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE.
7. A 10 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF THE WATER MAIN PIPE TO THE OUTSIDE EDGE OF THE SANITARY SEWER PIPE OR FORCE MAIN PIPE.
8. AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL SANITARY SEWER OR FORCE MAIN PIPE.
9. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

UTILITY NOTES:

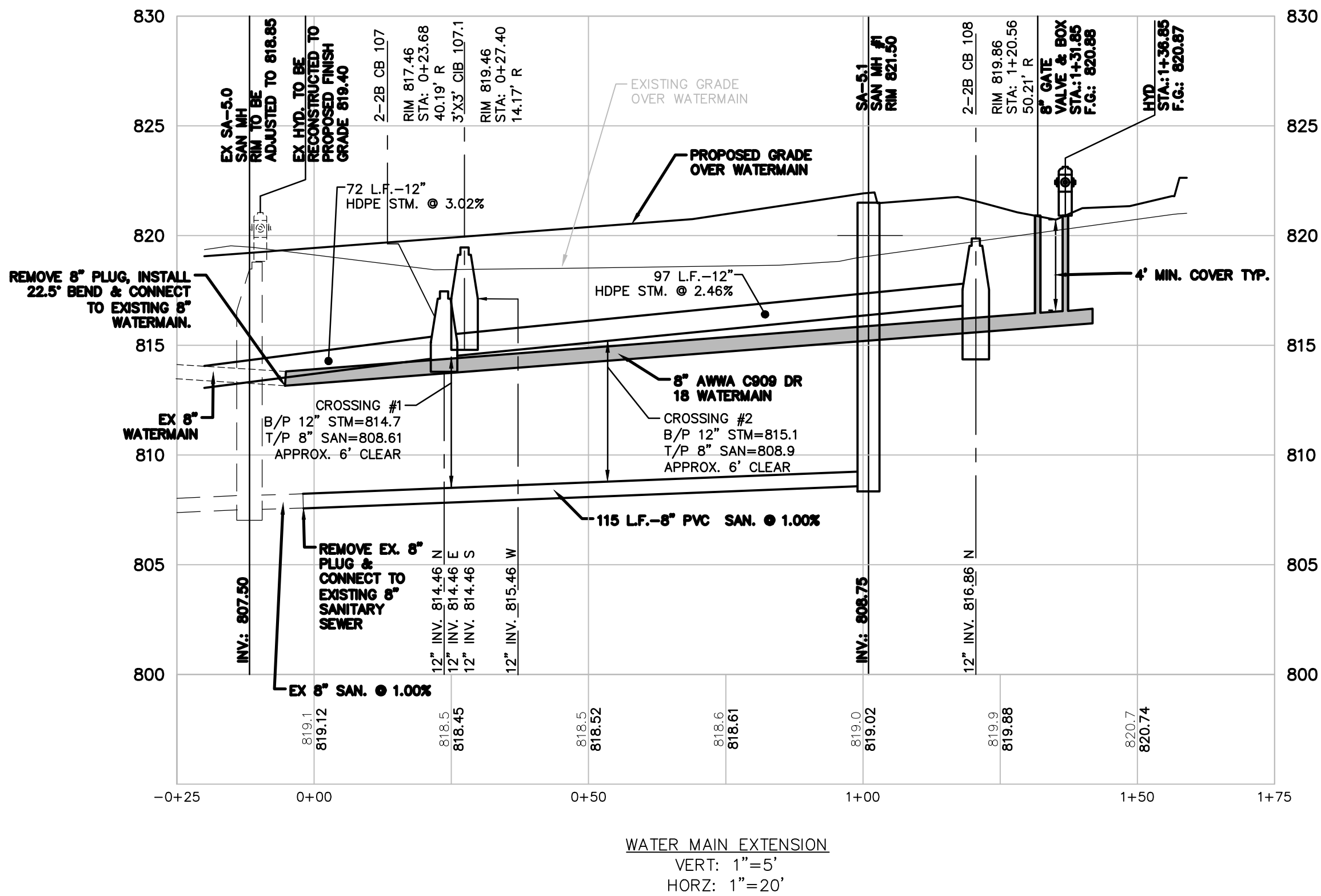
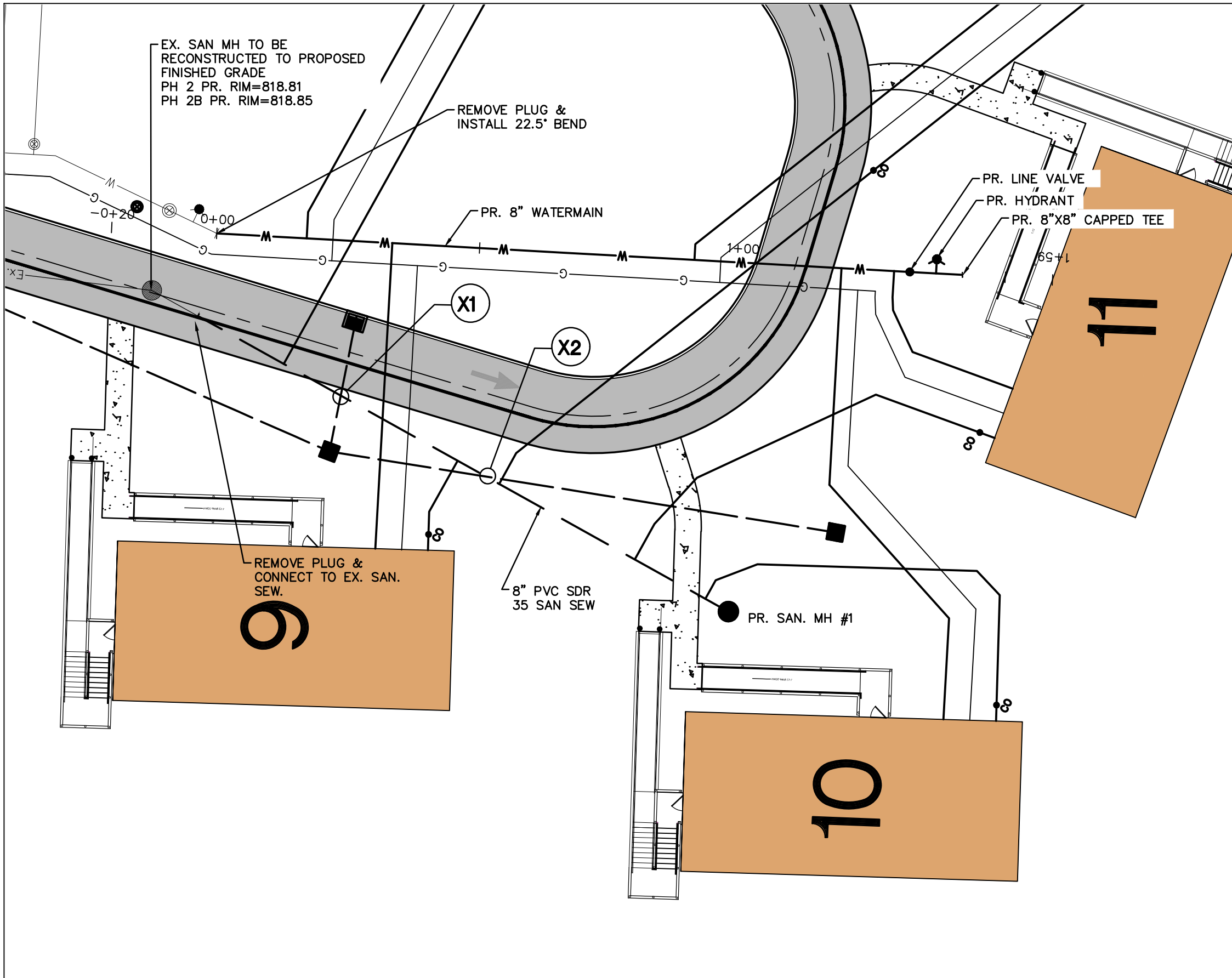
1. CONTRACTOR TO PROVIDE AND INSTALL ALL FITTINGS FOR CONNECTIONS TO TIE-INS TO EXISTING UTILITIES. FIELD VERIFY LOCATIONS, MATERIALS AND INVERTS OF EXISTING UTILITIES PRIOR TO COMMENCING WITH WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR TRENCHING AND BACKFILL FOR ALL UTILITIES.
3. UTILITY DUCT SHALL BE PVC SCH. 40 UTILITY DUCT PIPE. THE CONTRACTOR IS REQUIRED TO HAVE ALL UTILITY DUCT CROSSINGS UNDER PAVEMENT INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
4. CONTRACTOR TO ADJUST ALL EXISTING UTILITIES THAT ARE AFFECTED BY THIS WORK (I.E. MANHOLES, VALVES, VAULTS, BASINS, METERS, ETC.) TO FINISH GRADE OF NEW PAVEMENT OR LANDSCAPE AREAS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS FROM THE CITY AND ANY OTHER AGENCY FOR ANY WORK DONE BY THE CONTRACTOR.
6. WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO OR CROSS EITHER OVER OR UNDER AN EXISTING UTILITY, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING UTILITY BOTH AS TO LINE AND GRADE, BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.
7. WATER SERVICE SHALL REMAIN UNINTERRUPTED AT ALL TIMES. CONTRACTOR SHALL COORDINATE ALL VALVE SHUTS WITH THE DIVISION OF WATER INSPECTOR.
8. CONCRETE THRUST BLOCKS ARE REQUIRED BEHIND ALL WATER TEES, HORIZONTAL BENDS, HYDRANT ELBOWS AND TAPPING SLEEVES.
9. THESE PLANS HAVE BEEN DEVELOPED FOR ELECTRONIC FIELD LAYOUT. DIMENSIONS SHOWN ARE FOR GRAPHIC REPRESENTATION ONLY AND SHOULD NOT BE USED FOR LAYOUT. CONTACT THE OWNER'S ENGINEER IF ANY DISCREPANCIES BETWEEN THE PLAN AND ELECTRONIC DATA ARE DISCOVERED.

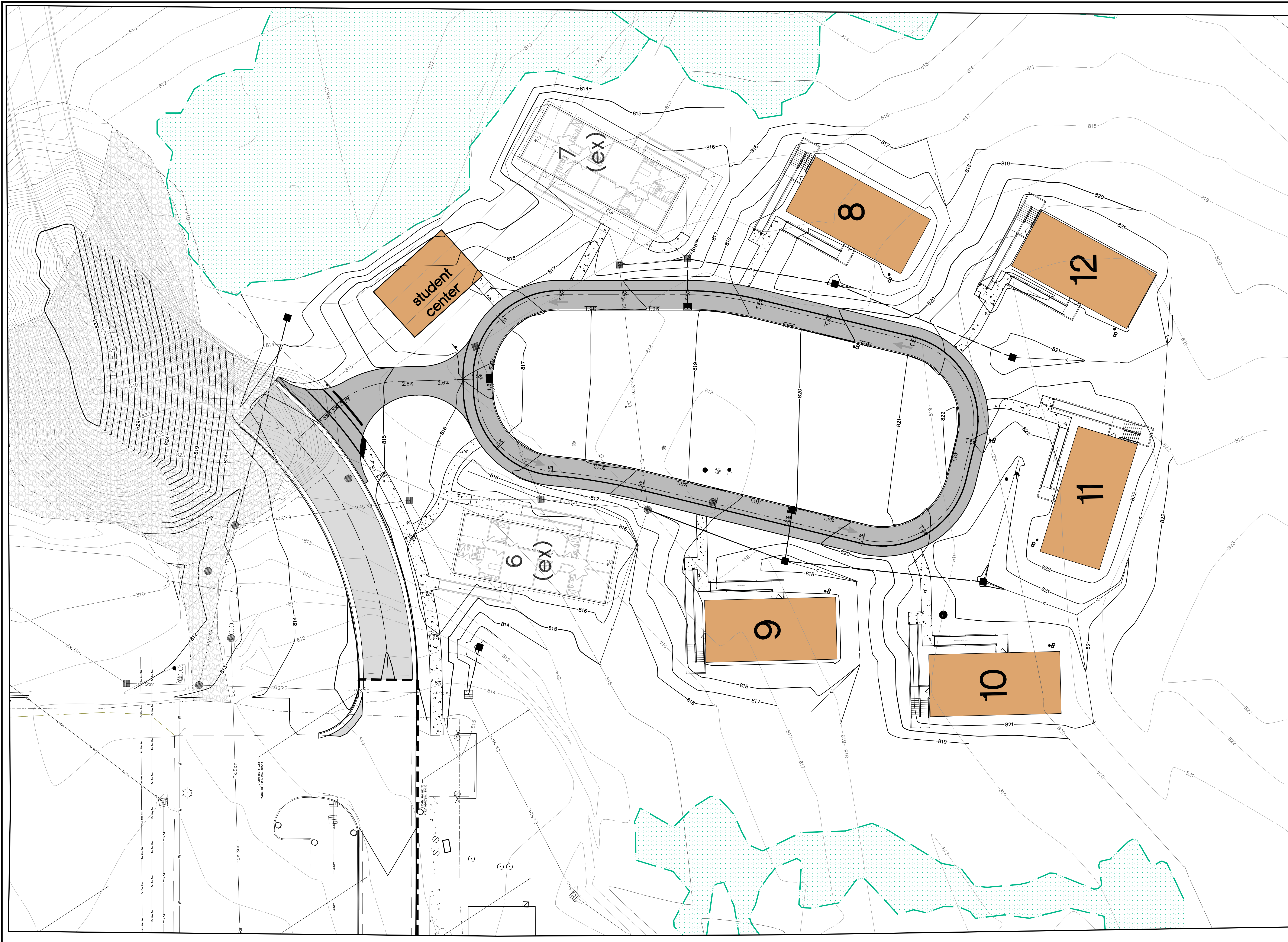
SANITARY SEWER NOTES:

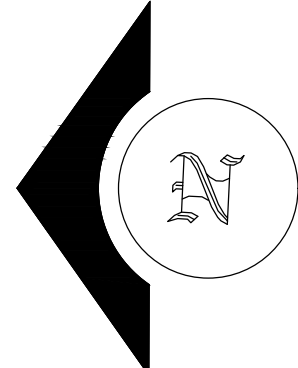
1. ALL SEWER SHALL BE PVC SDR 35 PER D3034, WITH D3212 JOINTS & D2321 BEDDING.
2. SANITARY MANHOLES SHALL BE PRECAST PER ASTM C-478 WITH JOINTS PER ASTM C-443.
3. SANITARY TRENCH SHALL INCLUDE A CLAY DAM EVERY 100' STARTING AT THE DOWNSTREAM MH CONNECTION.
4. SANITARY LATERAL PIPE TO BE 6" AND SLOPED AT 1% MIN. 18" VERTICAL CLEARANCE SHALL BE PROVIDED AT ALL UTILITY CROSSINGS.
5. SANITARY MANHOLES SHALL BE VACUUM TESTED IN ACCORDANCE WITH ASTM C1244.
6. LOW PRESSURE AIR TESTING PER ASTM F1417 IS REQUIRED ON ALL MAINS & LATERALS. A 5% DEFLECTION TEST WITH AN APPROVED MANDREL SHALL BE MADE AFTER 30 DAYS OF INSTALLATION.

STORM SEWER NOTES:

1. ALL PIPE SPECIFIED AS HDPE SHALL BE ADS DUAL WALL N-12 DRAINAGE PIPE (ASTM F2306) OR EQUAL WITH SOIL TIGHT JOINTS
2. PVC MATERIAL FOR ALL STORM WYE BRANCHES, RISERS AND CONNECTIONS SHALL BE PVC ASTM D-3034 WITH GASKET MATERIAL CONFORMING TO ASTM F-477 AND JOINTS PER ASTM D-3212.







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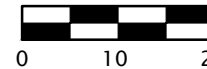


SPIRE INSTITUTE
DORM VILLAGE 2B

OVERALL GRADING PLAN

REVISIONS	
06-10-22	OWNER REVIEW
06-17-22	REV. UTIL. #10
10-14-22	GRADING PLAN
11-08-22	OEPa SUBMITTAL

SCALE: 1 INCH = 20 FEET

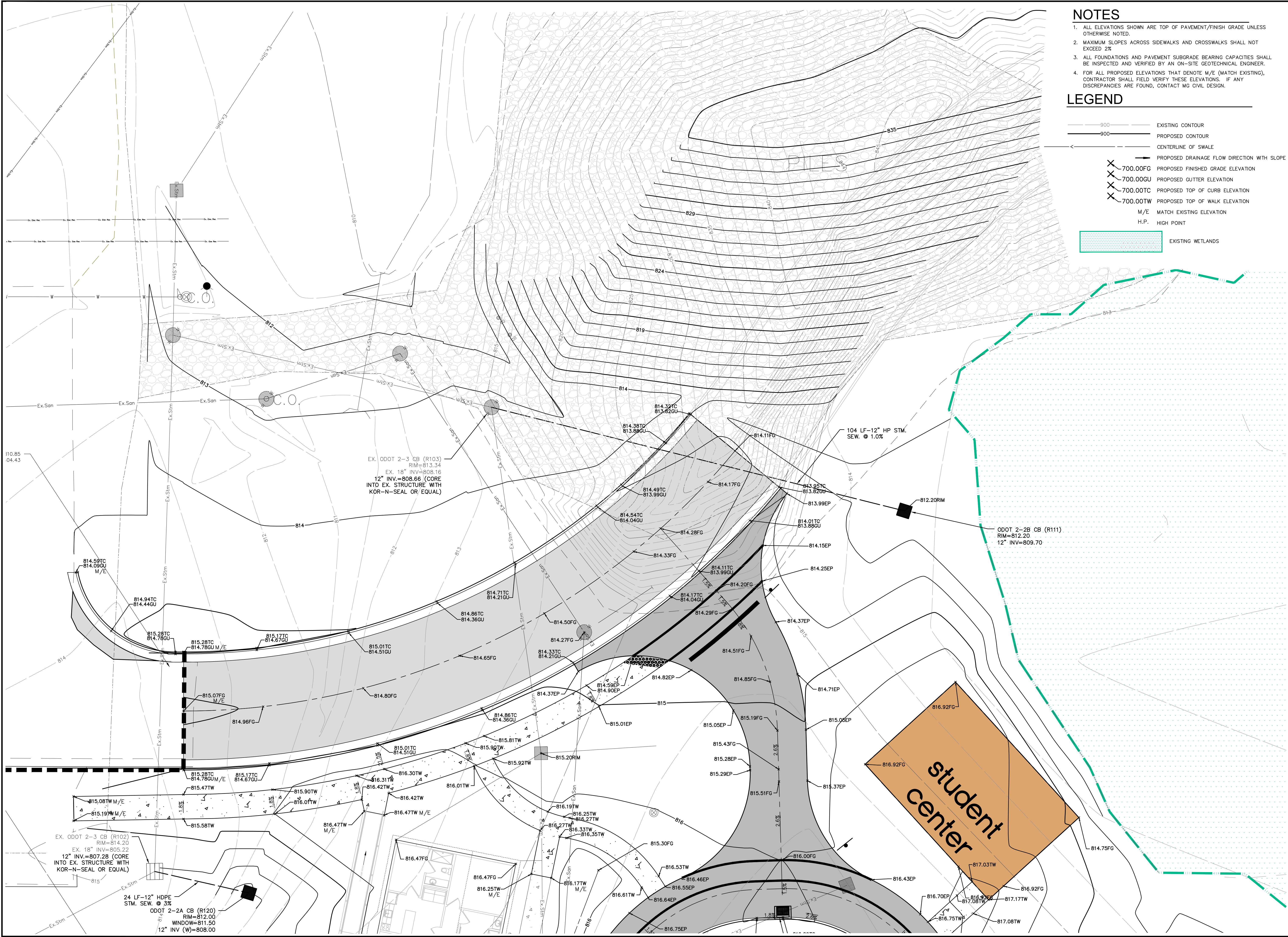


PROJECT NUMBER: 20004
PROJECT ADDRESS: 5201 SPIRE CIRCLE
GENEVA, OHIO 44041

DATE: MAY 1, 2022

SHEET NUMBER:

5.0



NOTES

1. ALL ELEVATIONS SHOWN ARE TOP OF PAVEMENT/FINISH GRADE UNLESS OTHERWISE NOTED.
2. MAXIMUM SLOPES ACROSS SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2%.
3. ALL FOUNDATIONS AND PAVEMENT SUBGRADE BEARING CAPACITIES SHALL BE INSPECTED AND VERIFIED BY AN ON-SITE GEOTECHNICAL ENGINEER.
4. FOR ALL PROPOSED ELEVATIONS THAT DENOTE M/E (MATCH EXISTING), CONTRACTOR SHALL FIELD VERIFY THESE ELEVATIONS. IF ANY DISCREPANCIES ARE FOUND, CONTACT MG CIVIL DESIGN.

LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- CENTERLINE OF SWALE
- PROPOSED DRAINAGE FLOW DIRECTION WITH SLOPE
- 700.00FG PROPOSED FINISHED GRADE ELEVATION
- 700.00GU PROPOSED GUTTER ELEVATION
- 700.00TC PROPOSED TOP OF CURB ELEVATION
- 700.00TW PROPOSED TOP OF WALK ELEVATION
- M/E MATCH EXISTING ELEVATION
- H.P. HIGH POINT
- EXISTING WETLANDS

Ohio Utilities Protection Service

Call 811

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DORM VILLAGE 2B

DETAIL GRADING NORTH

REVISIONS

06-10-22	OWNER REVIEW
06-17-22	REV. UTIL. #10
10-14-22	GRADING PLAN
11-08-22	OEPA SUBMITTAL

SCALE: 1 INCH = 10 FEET

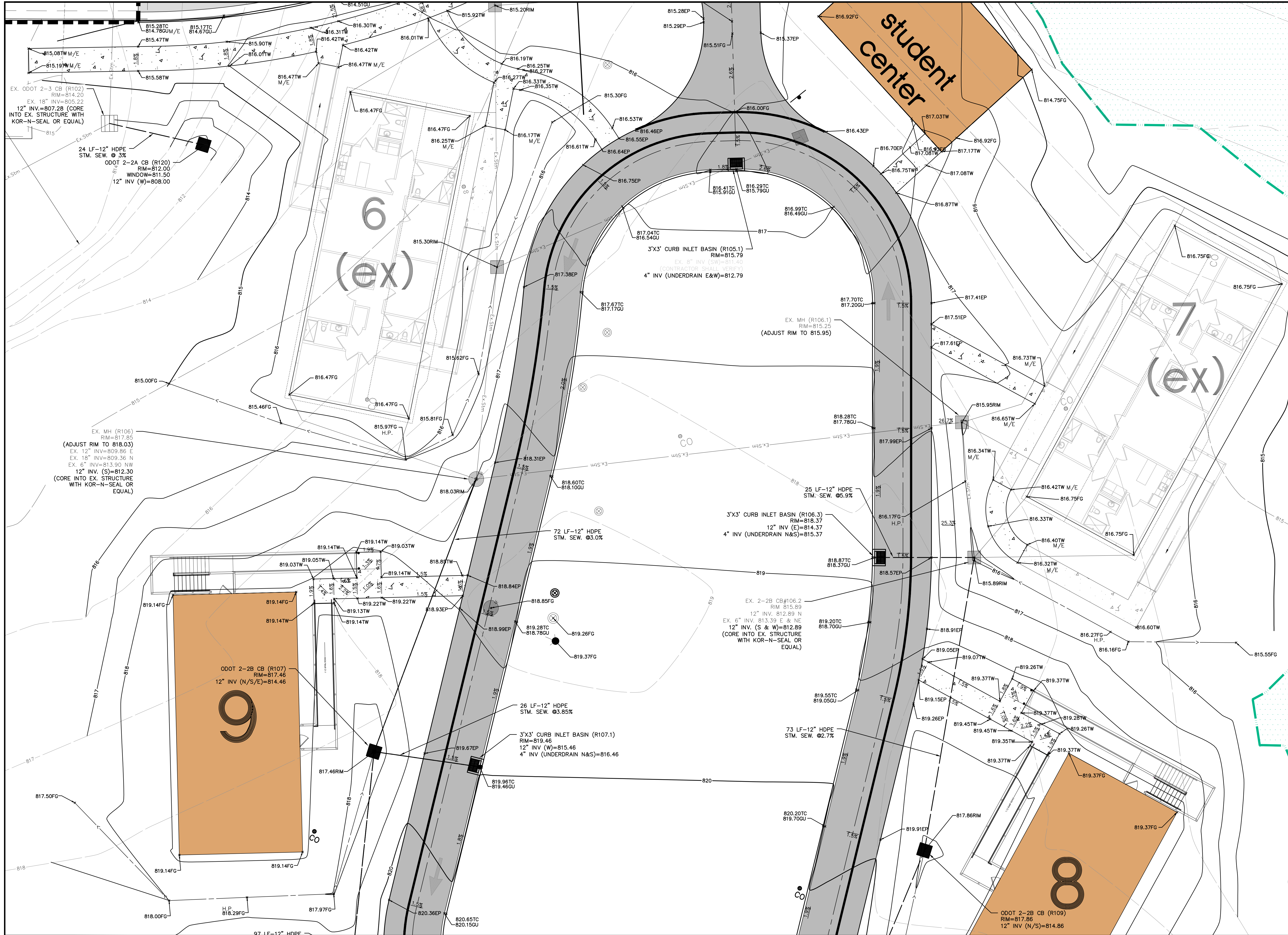
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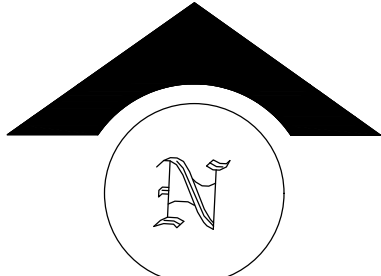
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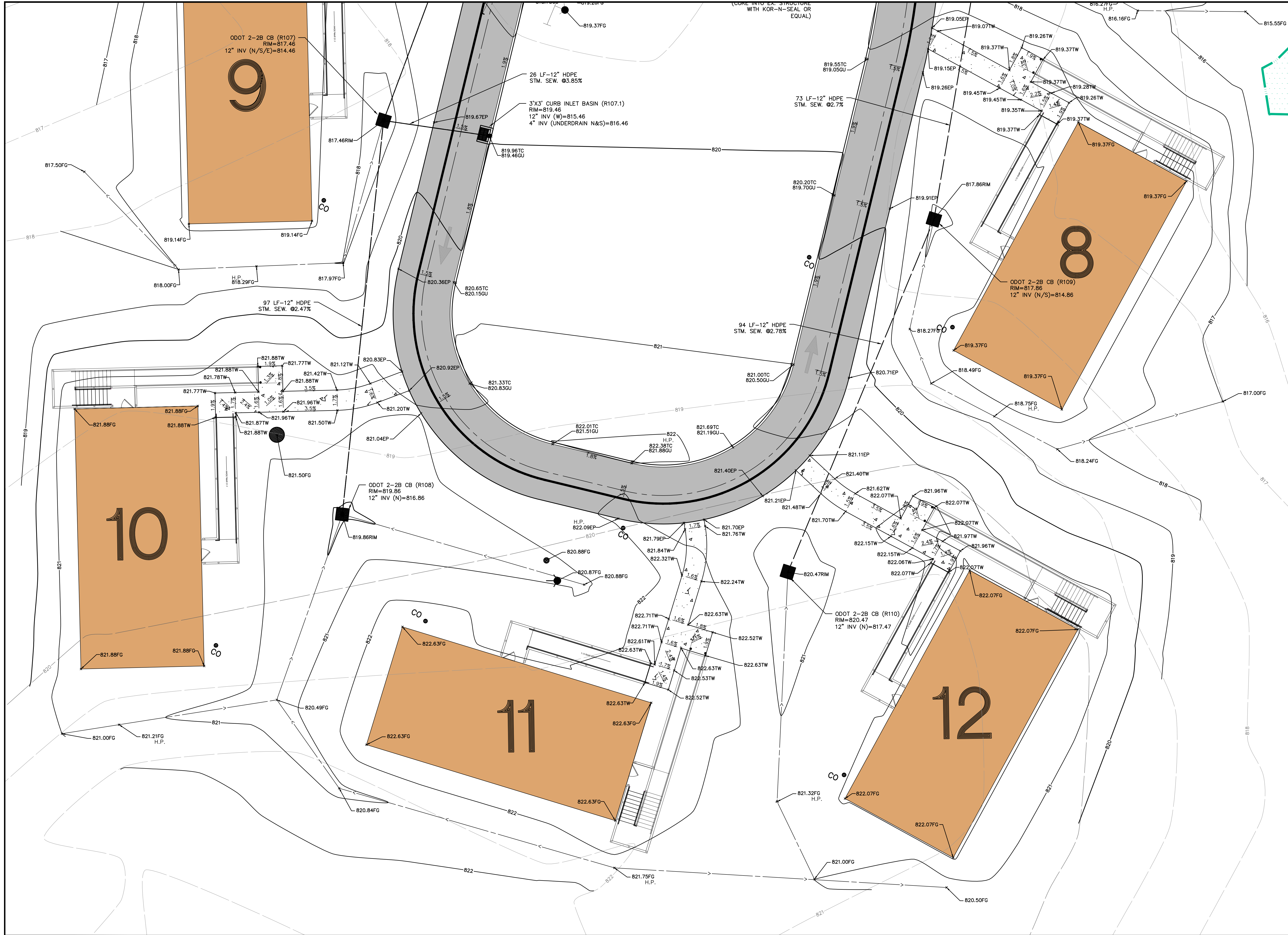
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DETAIL GRADING NORTH

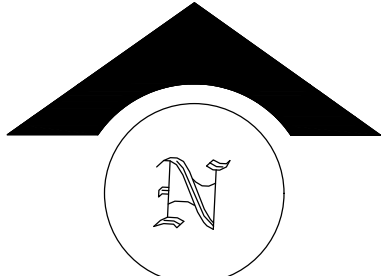


REVISIONS
06-10-22 OWNER REVIEW
06-17-22 REV. UTIL. #10
10-14-22 GRADING PLAN
11-08-22 OEPA SUBMITTAL

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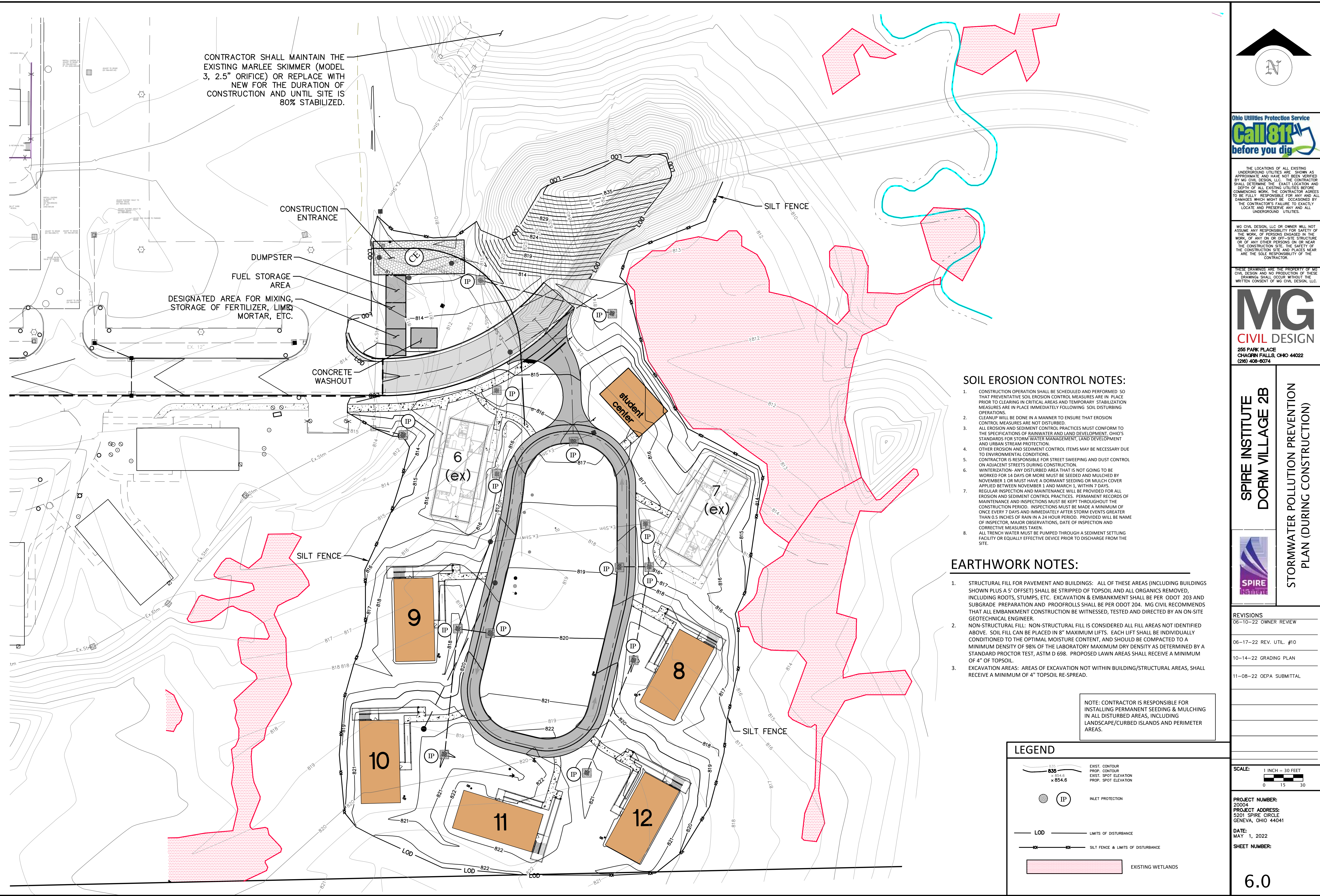


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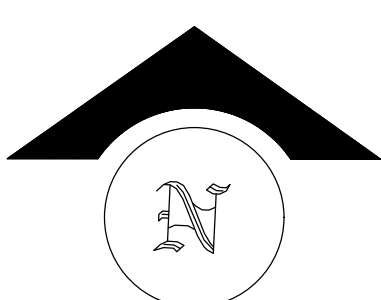
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DETAIL GRADING SOUTH







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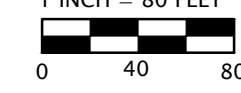
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SWP3 (POST CONSTRUCTION BMP PLAN)

REVISIONS

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SITE DESCRIPTION

FACILITY NAME:
DORM VILLAGE PHASE 2.5

NPDES PERMIT #: 3GCxxxx*AG

a. DESCRIBE THE NATURE AND TYPE OF CONSTRUCTION ACTIVITY:

INSTALLATION OF 7 DORM UNITS AND STUDENT CENTER. PROJECT INCLUDES GRADING, STORM SEWER, WATERMAIN AND SANITARY SEWER MAIN EXTENSIONS, ETC. THIS PROJECT, DORM VILLAGE PH 1 & THE PARKING LOT ALL DRAIN TO EXISTING POND 2. THROUGH COORDINATION & APPROVAL FROM OEPA (DAN BOGOEVSKI), POND 2 WAS MODIFIED TO SERVICE THIS SITE AS A SEDIMENT BASIN, AND THE WATER QUALITY BASIN/OUTLET STRUCTURE was MODIFIED TO COMPLY WITH THE NPDES OH000003 PERMIT.

b. TOTAL AREA OF THE SITE EXPECTED TO BE DISTURBED:
3.0 ACRES

c. PRE-DEVELOPED RUNOFF COEFFICIENT: C=0.4

POST-DEVELOPED RUNOFF COEFFICIENT: C=0.60
ESTIMATED % IMPERVIOUS AREA IN POST DEVELOPED STATE: 40%

e. EXISTING SOIL TYPES:
SEE TABLE RIGHT OF THIS SHEET

QUALITY OF STORMWATER DISCHARGING FROM THE CONSTRUCTION SITE: N/A

f. DESCRIBE PRIOR LAND USES:
VACANT WOODS, GRAVEL LAYDOWN AREA

g. SEQUENCE OF MAJOR CONSTRUCTION OPERATIONS:

START DAY	END DAY	SOIL EROSION CONTROL SEQUENCE OF CONSTRUCTION
1	1	STONE CONSTRUCTION ENTRANCE, MAINTAIN OR REPLACE EXISTING SKIMMER
1	3	INSTALL PERIMETER SILT FENCE, INLET PROTECTION ON EXISTING STRUCTURES & CONCRETE WASHOUT
4	45	EARTHWORK & PREPARE SUBGRADE OF PAVEMENT
20	60	INSTALL PROPOSED STORM SEWER & STRUCTURES AND ADJUST ALL CASTINGS TO GRADE. INSTALL INLET PROTECTION ON NEW STORM SEWER STRUCTURES
30	40	INSTALL SANITARY SEWER & WATERMAIN
60	70	REMOVE CONSTRUCTION ENTRANCE & INSTALL GRAVEL AND CONCRETE PAVEMENT
70	75	INSTALL PERMANENT SEEDING & MULCHING
		ONCE SITE IS 80% STABILIZED, REMOVE SILT FENCE, SKIMMER, INLET PROTECTION, ETC.
		MONITOR AND MAINTAIN STABILIZED AREAS, AND RESEED AS NEEDED
*		SEDIMENT CONTROLS SHALL BE INSTALLED / IMPLEMENTED WITHIN 7 DAYS OF GRUBBING ACTIVITIES

h. RECEIVING WATER BODY OR STREAM:
COWLES CREEK TRIBUTARY

i. DETAIL OF INDIVIDUAL LOT WITH SEDIMENT AND EROSION CONTROLS FOR CONSTRUCTION SITES WITH NO CENTRALIZED SEDIMENT CONTROLS (e.g. A SETTLING POND OR INLET PROTECTION) WHICH RECEIVES DRAINAGE FROM MULTIPLE LOTS:
N/A

j. INCLUDE THE LOCATION OF AND DESCRIPTION OF STORM WATER DISCHARGES ASSOCIATED WITH DEDICATED ASPHALT AND/OR CONCRETE BATCH PLANTS COVERED BY THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT:
N/A

k. NPDES PERMIT (SCANNED COPY OF FIRST SHEET OF PERMIT):
SEE THIS SHEET

I. DUTY TO INFORM CONTRACTORS AND SUBCONTRACTORS:(SEE FORM, THIS SHEET)

m. MODIFICATION LOG:(SEE FORM, THIS SHEET)

NON-SEDIMENT POLLUTANT CONTROL NOTES

1. ANY AND ALL WASTE MATERIALS (SOLID, HAZARDOUS, TOXIC, CONTAMINATED SOILS, ETC) GENERATED AT THE SITE SHALL BE PROPERLY DISPOSED OF IN ACCORDANCE ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS. ON-SITE STORAGE CONTAINERS SHALL BE COVERED AND NOT LEAKING. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ON THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, GASOLINE, DIESEL FUEL, MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CURING COMPOUND, OR ANY OTHER TOXIC OR HAZORDOUS WASTES.

2. ALL CLEAN HARD FILL MUST BE FREE FROM CONTAMINATION.

3. ALL CLEAN CONSTRUCTION WASTES TO BE DISPOSED OF ON THE PROPERTY MUST BE DONE SO IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS.

4. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE (ORC) 3714. NOTE: CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED OF IN AN OHIO EPA APPROVED LANDFILL. MATERIALS WHICH MAY CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE 3745-20).

5. IF THE CONTRACTOR WILL UTILIZE AN ABOVE GROUND STORAGE TANK (AST) OF 660 GALLONS OR MORE, TOTAL ABOVE GROUND TANK STORAGE OF 1,330 GALLONS, OR BELOW GROUND STORAGE OF 42,000 GALLONS OF FUEL, HE SHALL SUBMIT A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN TO THE CITY FOR APPROVAL PRIOR TO CONSTRUCTION.

6. ALL CONTAMINATED SOILS MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES (TSDFS).

7. ALL AREAS OF CONTAMINATION SHALL BE COVERED WITH TARPS OR OTHER METHODS THAT PREVENT STORM WATER FROM COMING IN CONTACT WITH THE MATERIAL.

8. PETROLEUM BASED AND CONCRETE CURING COMPOUNDS MUST HAVE SPECIAL HANDLING PROCEDURES.

9. IN THE EVENT OF A LARGER RELEASE (25 OR MORE GALLONS) OF PETROLEUM WASTE, CONTRACTOR MUST CONTACT OHIO EPA (AT 1-800-282-9378), THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE (LEPC) WITHIN 30 MINUTES OF A SPILL OF 25 OR MORE GALLONS.

10. OPEN BURNING IS NOT ALLOWED.

11. DUST SUPPRESSANTS SHALL BE USED IN CASES OF EXCESSIVE DUST. OIL MAY NOT BE USED AS A DUST SUPPRESSANT. DUST SUPPRESSANTS MUST NOT BE STORED NEAR CATCH BASINS OR OTHER DRAINAGE WAYS.

12. THE NPDES CONSTRUCTION STORM WATER GENERAL PERMIT ONLY AUTHORIZES THE DISCHARGE OF STORM WATER AND CERTAIN UNCONTAMINATED NON-STORM WATERS. THE DISCHARGE OF NON-STORM WATERS TO WATERS OF THE STATE MAY BE IN VIOLATION OF LOCAL, STATE, AND FEDERAL LAWS OR REGULATIONS. ALL PROCESS WASTEWATERS (EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, AND CONCRETE WASHOUTS) SHALL BE COLLECTED AND DISPOSED OF PROPERLY.

13. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN THE DESIGNATED AREA WHERE THE WASHING CAN COLLECT AND BE DISPOSED OF PROPERLY WHEN THEY HARDEN.

14. FUEL STORAGE TANKS SHOULD BE LOCATED IN AREAS AWAY FROM DRAINAGE CHANNELS . CONTRACTOR SHALL UTILIZE COVERED, SELF-CONTAINED SPILL PROOF TANKS.

15. NO TOXIC OR HAZARDOUS WASTES SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR BY BURYING, BURNING, OR MIXING THE WASTES.

16. ON SITE WASTE CONTAINERS (DUMPSTERS, DRUMS, ETC.) SHALL BE COVERED AND LEAK PROOF.

NOTE:
IF ON-SITE FUEL STORAGE EXCEEDS 1330 GALLONS, A SPCC PLAN IS REQUIRED.

SEDIMENT & EROSION CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST CONFORM TO THE SPECIFICATION OF RAINWATER AND LAND DEVELOPMENT, OHIO STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM.

2. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED SUCH THAT A MINIMUM AREA OF THE SITE IS DISTURBED AT A TIME. CONSTRUCTION OPERATION SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS. CONTRACTOR SHALL REDUCE EFFECTS OF STORM WATER BY USING AND/OR MAINTAINING GRASSED SWALES, INFILTRATION STRUCTURES, OR WATER DIVERSIONS.

3. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

4. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.

5. TEMPORARY SOIL STABILIZATION SHALL OCCUR WITHIN 7 DAYS AFTER ROUGH GRADING IF THE AREA WILL REMAIN IDLE LONGER THAN 14 DAYS. ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH.

6. TRENCHES FOR UNDERGROUND UTILITY LINE AND PIPES SHALL BE TEMPORARILY STABILIZED WITHIN 7 DAYS IF THEY ARE TO REMAIN INACTIVE FOR 14 DAYS. TRENCH DEWATERING DEVICES (DANDY BAGS – SEE DETAIL SHEET) SHALL DISCHARGE IN A MANNER THAT FILTERS SOIL-LADEN WATER BEFORE DISCHARGING IT TO A RECEIVING DRAINAGE DITCH OR POND. IF SEEDING, MULCHING OR OTHER EROSION AND SEDIMENT CONTROL MEASURES WERE PREVIOUSLY INSTALLED; THESE PROTECTIVE MEASURES SHALL BE REINSTALLED. PIPELINES WITH JOINTS THAT ALLOW A MANUFACTURED LENGTH OF PIPE TO BE PLACED IN THE TRENCH WITH THE PIPE JOINT ASSEMBLED/MADE IN THE TRENCH REQUIRE AN OPEN PIPELINE TRENCH THAT IS ONLY SLIGHTLY LONGER THAN THE LENGTH OF PIPE BEING INSTALLED. THE TOTAL LENGTH OF EXCAVATED TRENCH OPEN AT ANY TIME SHOULD NOT BE THE GREATER THAN THE TOTAL LENGTH OF PIPELINE/UTILITY THAT CAN BE PLACED IN THE TRENCH AND BACK-FILLED IN ONE WORKING DAY. NO MORE THAN 50 LINEAL FEET OF OPEN TRENCH SHOULD EXIST WHEN PIPELINE/UTILITY LINE INSTALLATION CEASES AT THE END OF THE WORK DAY.

7. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED TO PREVENT SOIL LOSS.

8. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF FINAL GRADING. FURTHER, SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETE, AT WHICH TIME TEMPORARY MEASURES WILL BE REMOVED. PERMANENT VEGETATION IS A GROUND COVER DENSE ENOUGH TO COVER 80% OF THE SOIL SURFACE AND MATURE ENOUGH TO SURVIVE WINTER WEATHER CONDITIONS.

9. SILT FENCE TO BE 2' MINIMUM FROM PROPERTY LINES IN AREAS WHERE WORK IS NEAR ADJACENT PROPERTIES.

10. HAUL ROUTES– THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MUD, DIRT, OR DEBRIS DEPOSITED ON HAUL ROADS AS A RESULT OF HIS OPERATIONS. SOIL SHALL BE REMOVED FROM ROADS AND PAVED SURFACES AT THE END OF EACH DAY IN SUCH A MANNER THAT DOES NOT CREATE OFF-SITE SEDIMENTATION IN ORDER TO ENSURE SAFETY AND ABATE OFF-SITE SOIL LOSS. COLLECTED SEDIMENTS SHALL BE PLACED IN A STABLE LOCATION ON SITE OR TAKEN OFF-SITE TO A STABLE LOCATION. CONTRACTOR SHALL USE STATE ROUTES (AND SHORTEST DISTANCE NON-STATE ROUTES) FOR PROJECT HAUL ROUTE.

11. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS.

12. FOR DISTURBED AREAS OVER 50 FEET AWAY FROM A STREAM REMAINING DORMANT FOR OVER 14 DAYS, TEMPORARY EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS.

13. FOR DISTURBED AREAS THAT WILL BE LEFT IDLE OVER WINTER, TEMPORARY EROSION CONTROLS SHALL BE APPLIED PRIOR TO ONSET OF WINTER.

14. FOR DISTURBED AREAS WITHIN 50 FEET OF A STREAM AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 2 DAYS OF REACHING FINAL GRADE.

15. FOR DISTURBED AREAS REMAINING DORMANT FOR OVER 1 YEAR OR AT FINAL GRADE, PERMANENT EROSION CONTROLS SHALL BE APPLIED WITHIN 7 DAYS.

16. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED FOR OVER 14 DAYS.

17. SEDIMENT CONTROLS SHALL BE INSTALLED/IMPLEMENTED WITHIN 7 DAYS OF GRUBBING ACTIVITIES.

18. THE SEDIMENT STORAGE ZONE OF THE SILT TRAPS AND BASINS SHALL BE CLEANED OUT WHEN THE SILT OCCUPIES 40 PERCENT OF THE SEDIMENT STORAGE ZONE (APPROXIMATELY ONE-HALF OF THE SEDIMENT STORAGE ZONE DEPTH).

19. ALL SILT TRAPS AND SEDIMENTATION BASINS SHALL BE SURROUNDED BY ORANGE CONSTRUCTION FENCING.

SWPPP Amendment Log for Construction

Project Name: _____

Location: _____

Date: _____

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared By: Names (s) & Title

Ashtabula County, Ohio (OH007)			
Ashtabula County, Ohio (OH007)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DeC	Darien and Platea silt loams, 6 to 12 percent slopes	3.0	28.9%
MhA	Mill silt loam, 0 to 2 percent slopes	1.3	12.2%
PrB	Platea-Darien silt loams, 2 to 6 percent slopes	5.4	53.1%
WcA	Wick silt loam, 0 to 2 percent slopes, frequently flooded	0.6	5.7%
Totals for Area of Interest		10.2	100.0%

INSPECTIONS

- WEEKLY INSPECTIONS OF BMPS ARE REQUIRED AS WELL AS AN INSPECTION WITHIN 24 HOURS AFTER EVERY RAIN EVENT OF 0.5 INCHES WITHIN A 24 HOUR PERIOD.
- IF THE SITE WILL BE DORMANT FOR A LONG PERIOD, IT'S STABILIZED, AND LESS FREQUENT INSPECTIONS ARE DESIRED, A WAIVER REQUEST SHALL BE SUBMITTED TO OEPA FOR A REDUCTION TO MONTLY INSPECTIONS.
- ONLY "QUALIFIED INSPECTION PERSONNEL" WILL PERFORM THE INSPECTIONS.
- AN INSPECTION CHECKLIST WILL BE COMPLETED AND SIGNED BY THE INSPECTOR AFTER EVERY INSPECTION.
- INSPECTION RECORDS WILL BE KEPT FOR 3 YEARS AFTER TERMINATION OF CONSTRUCTION ACTIVITIES.
- FOR BMPS THAT REQUIRE REPAIR OR MAINTENANCE, NON-SEDIMENT POND BMPS SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION AND SEDIMENT PONDS SHALL BE REPAIRED OR CLEANED OUT WITHIN 10 DAYS OF INSPECTION.
- IN THE CASE THAT A BMP DOES NOT MEET THE INTENDED FUNCTION, A NEW BMP WILL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.
- IF ANY BMP REQUIRED FOR INSTALLATION BY THE SWP3 IS MISSING, THE MISSING BMPS SHALL BE INSTALLED WITHIN 10 DAYS OF THE INSPECTION.

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SWP3 NOTES



REVISIONS
06-10-22 OWNER REVIEW

06-17-22 REV. UTIL. #10

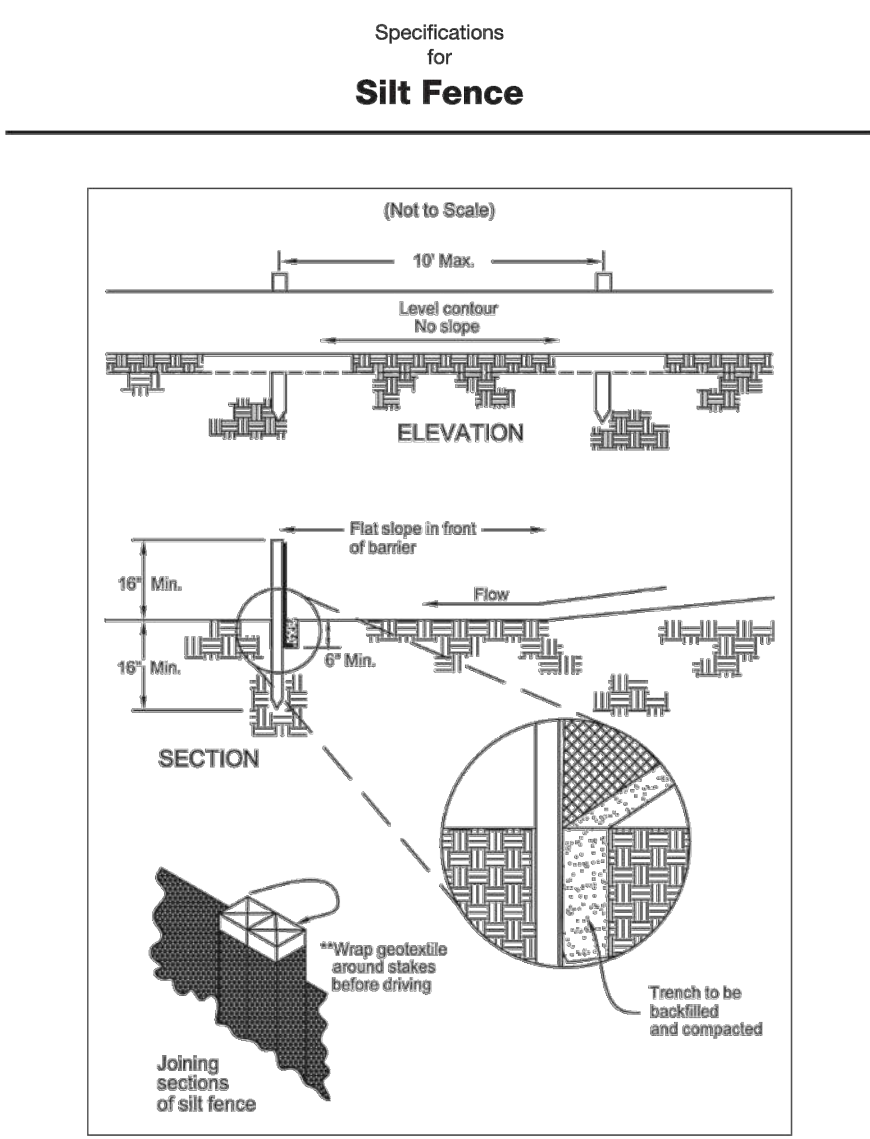
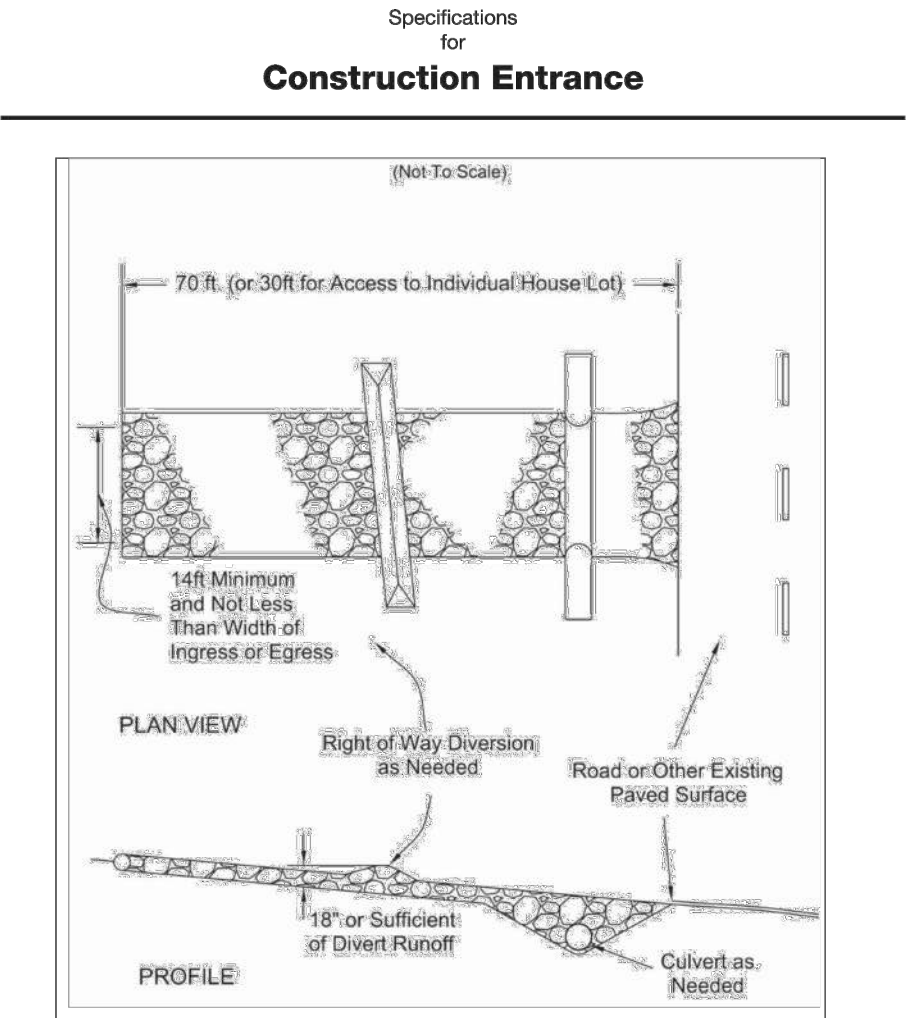
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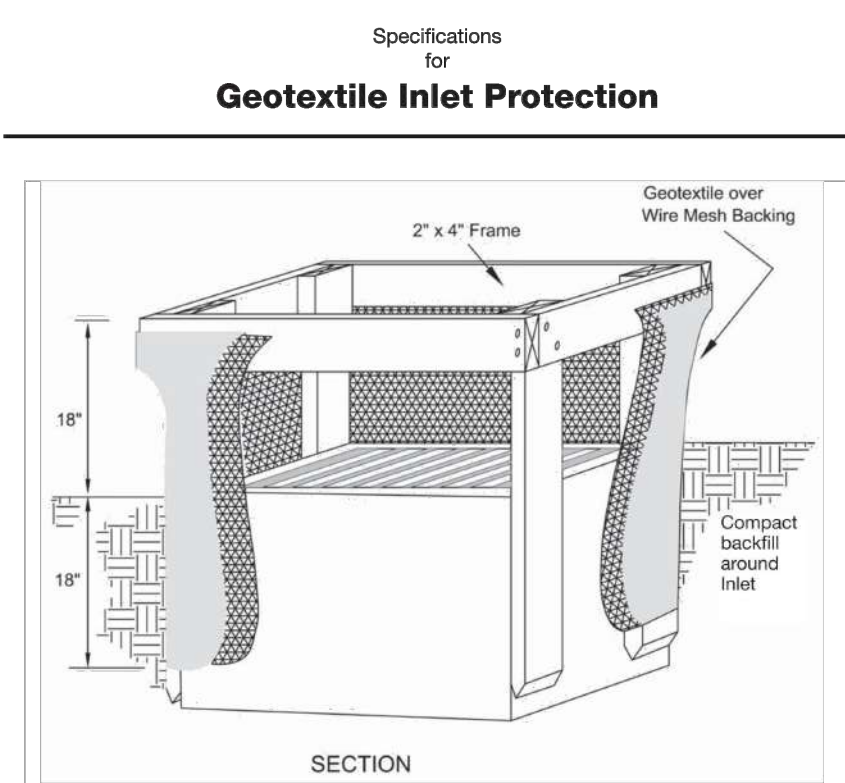
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GENEVA, OHIO 44041
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MAY 1, 2022
SHEET NUMBER:

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INLET PROTECTION IN NON-PAVEMENT AREAS



- Inlet protection shall be constructed either before upstate land disturbance begins or before the inlet becomes functional.
- The earth around the inlet shall be excavated completely to a depth of at least 18 inches.
- The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 8 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be secured tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet at the ends of the cloth are not fastened to the same post.
- Backfill shall be placed around the inlet in compacted 6-inch layers until the earth is even with notch elevation on ends and top elevation on sides.
- A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

Specifications for Temporary Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

Use mulch only or dormant seeding

- Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
- Temporary seeding shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
- The seeded should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be used for 2 tons per acre or 90 lbs./1,000 sq. ft. or greater.
- Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for time and fertilizer shall be used.
- Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately without interruption.

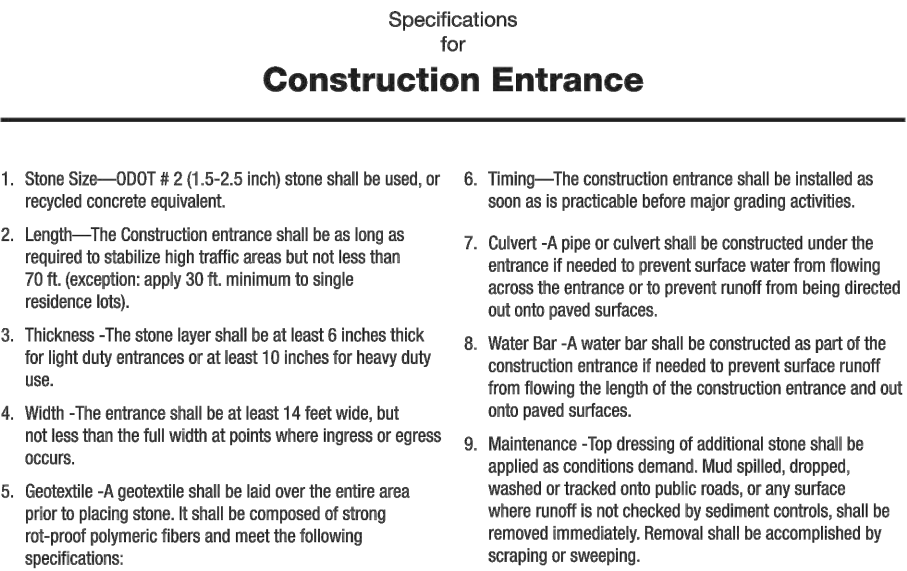
Specifications for Permanent Seeding	
Site Preparation - Subsoiler, plow, or other implement shall be used to reduce soil compaction and allow maximum infiltration. Maximum infiltration will help control both runoff rate and water quality. Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on dry prone areas where soil preparation should be limited to allow the necessary for establishing vegetation. - The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding. - Typical shall be applied where needed to establish vegetation. Seedbed Preparation - Lime—Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 pounds per 1,000-sq. ft. or 2 tons per acre. - Fertilizer—Fertilizer shall be applied as recommended by a soil test. In place of a soil test, fertilizer shall be applied at a rate of 25 pounds per 1,000-sq. ft. or 1000 pounds per acre of a 10-10-10 or 12-12-12 analyses. - The lime and fertilizer shall be worked into the soil with a disk harrow, spring-broke harrow, or other suitable field implement to a depth of 3 inches. On sloping land, the soil shall be worked on the contour. Seeding Dates and Soil Conditions Seeding should be done March 1 to May 31 or August 1 to September 30. If seeding occurs outside of the above-specified dates, additional mulch and irrigation may be required to ensure a minimum of 80% germination. Irrigation for seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.	
Mulching - Mulch material shall be applied immediately after seeding. Dormant seeding shall be mulched. 100% of the ground surface shall be covered with an approved material. - Materials - Straw—If straw is used it shall be unrooted small-grain straw applied at the rate of 2 tons per acre or 90 pounds (two to three bales) per 1,000-sq. ft. The mulch shall be spread uniformly by hand or mechanically applied to the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq. ft. sections and spread two 45-lb. bales of straw in each section. - Hydroseeding—If wood cellulose fiber is used, it shall be applied at 2,000 lb./ac. or 46 lb./1,000 sq. ft. - Other—Other acceptable mulches include rolled erosion control materials or blankets applied according to manufacturer's recommendations or wood chips applied at 6 tons per acre.	

- Dormant Seeding**
- Seedings should not be made from October 1 through November 20. During this period, the seeds are likely to germinate but probably will not be able to survive the winter.
 - The following methods may be used for "Dormant Seeding":
 - Straw and Mulch Anchoring Methods
 - Straw mulch shall be anchored immediately to minimize loss by wind or water.
 - Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 inches.
 - Mulch Netting—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
 - Synthetic Binders—Synthetic binders such as Acrylic DLR (Agi-Tac), DCA-70, Petrosel, Terra Track or equivalent may be used at rates recommended by the manufacturer.
 - Wood Cellulose Fiber—Wood cellulose fiber shall be applied at a net dry weight of 750 pounds per acre. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 pounds cellulose per 100 gallons of water.
 - Irrigation
 - Permanent seeding shall include irrigation to establish vegetation during dry weather or on adverse site conditions, which require adequate measures for seed germination and plant growth.
 - Irrigation rates shall be monitored to prevent erosion and damage to seeded areas from excessive runoff.

Specifications for Temporary Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

- Straw—If straw is used, it shall be unrooted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales).
- Hydroseeding—If wood cellulose fiber is used, it shall be used at 2000 lbs./ac. or 46 lb./1,000-sq.-ft.
- Other—Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

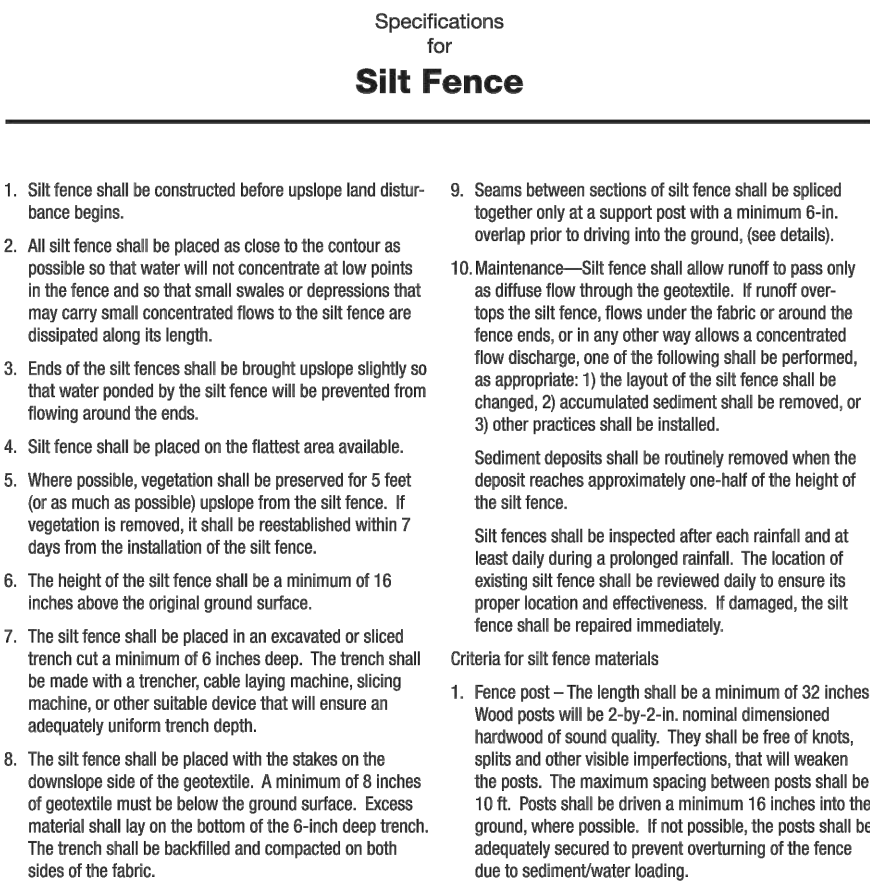
Note: Other approved seed species may be substituted.



Specifications for Silt Fence			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

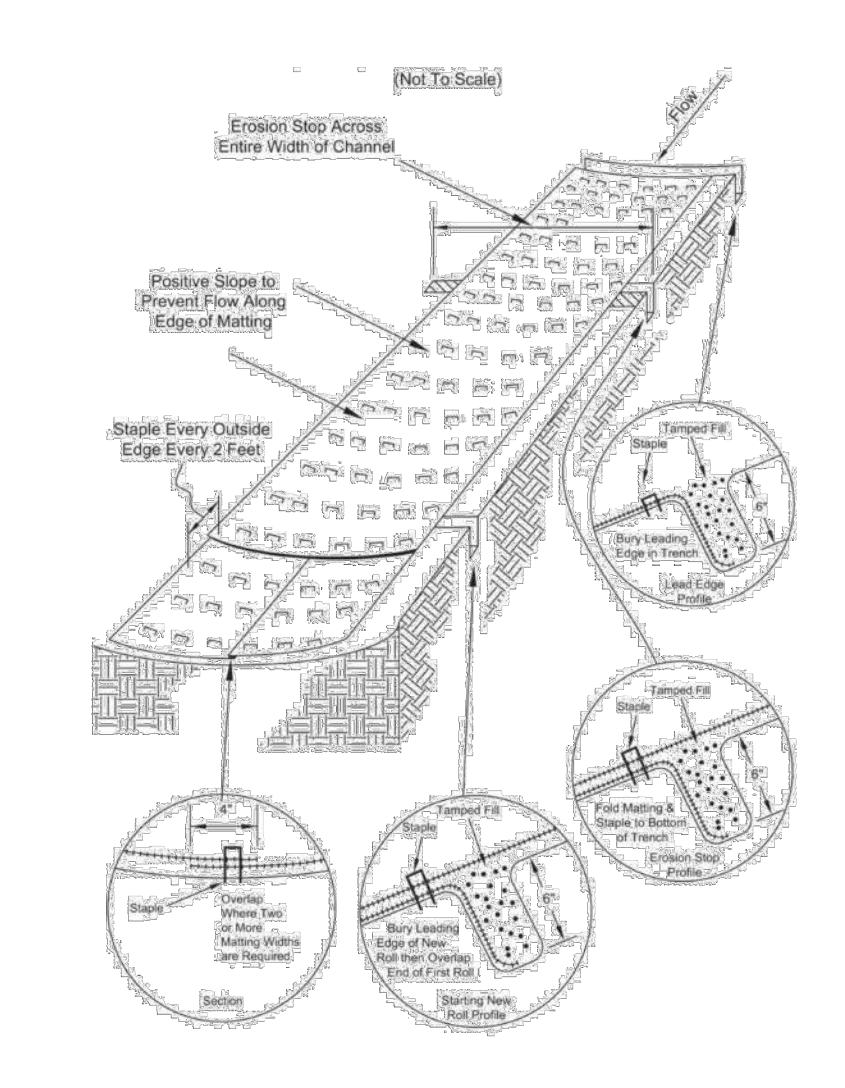
- Stone Size—DOT 4 2 1/2-5 1/2 inch stone shall be used, or recycled concrete equivalent.
- Length—The construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 ft. (exception: apply 50 ft. minimum to single residence lots).
- Thickness—The stone layer shall be at least 6 inches thick for right-of-way entrances or at least 10 inches for heavy duty use.
- Width—The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.
- Geotextile—A geotextile shall be laid below the entire area prior to placing stone. It shall be composed of strong net-grade polymers fibers and meet the following specifications:

Specifications for Temporary Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40



Specifications for Temporary Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

Temporary Rolled Erosion Control Product



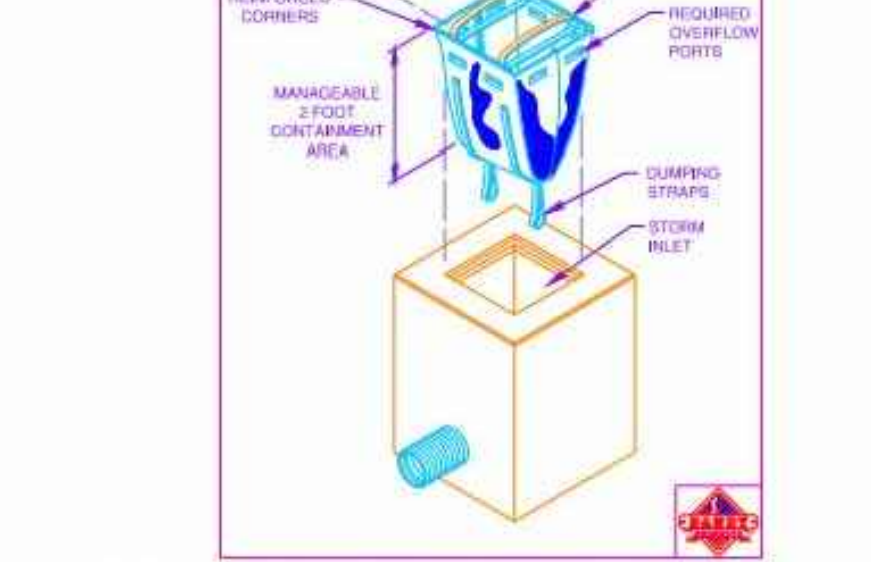
Temporary Seeding

Specifications for Temporary Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
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	Tall Fescue	1	40
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	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

- Straw—If straw is used, it shall be unrooted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales).
- Hydroseeding—If wood cellulose fiber is used, it shall be used at 2000 lbs./ac. or 46 lb./1,000-sq.-ft.
- Other—Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

Mulching Temporary Seeding

- Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedlings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization.
- Materials:
 - Straw—If straw is used, it shall be unrooted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales).
 - Hydroseeding—If wood cellulose fiber is used, it shall be used at 2000 lbs./ac. or 46 lb./1,000-sq.-ft.
 - Other—Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.



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	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

Note: Other approved seed species may be substituted.

Permanent Seeding

Specifications for Permanent Seeding			
Seeding Date	Species	Lb./1000 sq. ft.	Lb./acre
March 1 to August 15	Oats	3	128 (3 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Annual Ryegrass	1.25	55
	Perennial Ryegrass	1.25	142
	Croquet Red Fescue	0.4	17
	Kentucky Bluegrass	0.4	17
	Tall Fescue	3	128 (3 bushel)
November 1 to Feb. 29	Rye	3	112 (2 bushel)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Wheat	3	120 (3 bushel)
	Tall Fescue	1	40
November 1 to Feb. 29	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Perennial Ryegrass	1.25	40
	Croquet Red Fescue	3.25	40
	Kentucky Bluegrass	0.4	40

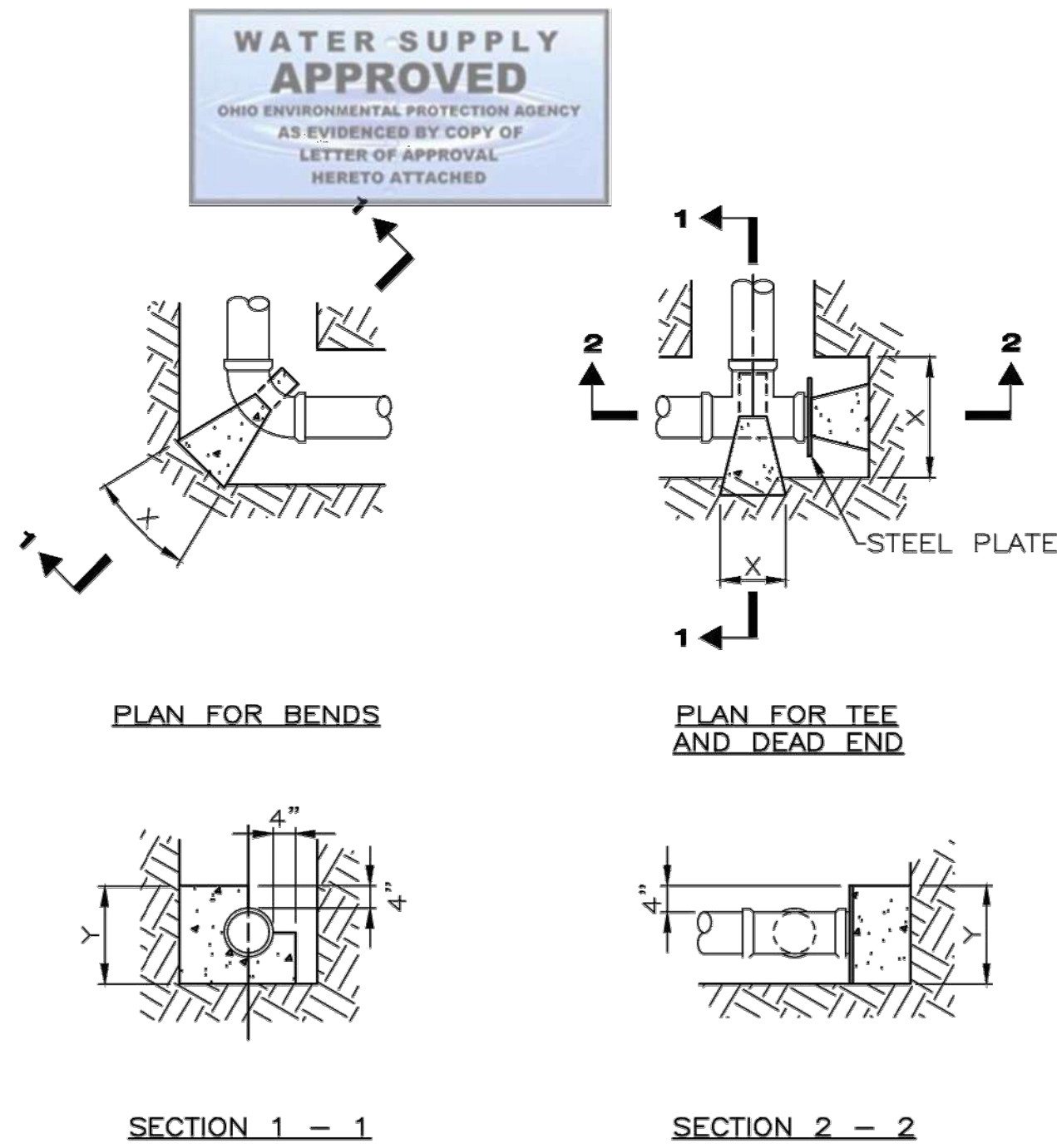
- Straw—If straw is used, it shall be unrooted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales).
- Hydroseeding—If wood cellulose fiber is used, it shall be used at 2000 lbs./ac. or 46 lb./1,000-sq.-ft.
- Other—Other acceptable mulches include mulch matings applied according to manufacturer's recommendations or wood chips applied at 6 tons/ac.

Mulching Temporary Seeding

- Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedlings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization.
- Materials:
 - Straw—If straw is used, it shall be unrooted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./1,000 sq. ft. (2-3 bales).
 - Hydro

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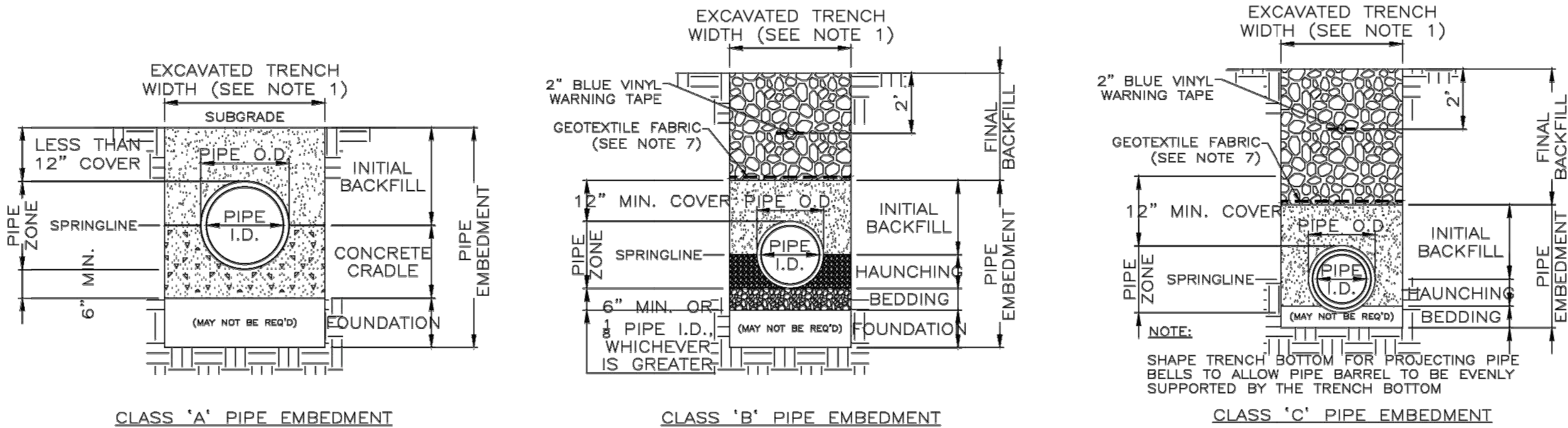
SIZING SCHEDULE				BEARING FACE (X Y) IN SQ. FT. CONCRETE VOLUME IN CU. YD.		
PIPE SIZE	22-1/2" BEND SOIL BEARING CAPACITY			45° BEND SOIL BEARING CAPACITY		
	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.
4	1.40	0.46	0.26	2.70	0.90	0.54
	0.14	0.09	0.06	0.12	0.06	0.06
6	2.80	0.93	0.56	5.50	1.83	1.10
	1.15	0.10	0.07	0.15	0.10	0.07
8	4.80	1.60	0.96	9.60	3.20	1.92
	0.20	0.13	0.09	0.23	0.15	0.09
10	7.90	2.63	1.96	15.70	5.23	3.14
	0.53	0.34	0.22	0.34	0.20	0.13
12	11.30	3.76	2.26	22.30	7.43	4.46
	0.62	0.40	0.26	0.75	0.49	0.32
14	15.30	5.10	3.06	30.20	10.06	6.04
	0.74	0.48	0.31	0.98	0.64	0.42
16	19.80	6.60	3.96	39.10	13.03	7.82
	1.17	0.76	0.49	1.21	0.79	0.51
PIPE SIZE	90° BEND SOIL BEARING CAPACITY			TEE OR DEAD END SOIL BEARING CAPACITY		
	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.	1,000 P.S.F.	3,000 P.S.F.	5,000 P.S.F.
4	4.90	1.63	0.96	3.50	1.16	0.70
	0.14	0.09	0.06	0.12	0.06	0.06
6	10.20	3.40	2.04	7.20	2.40	1.44
	0.22	0.14	0.09	0.17	0.11	0.07
8	17.70	5.54	3.54	12.50	4.16	2.50
	0.35	0.23	0.15	0.25	0.16	0.14
10	28.90	9.60	5.76	20.40	6.80	4.06
	0.54	0.35	0.23	0.38	0.25	0.16
12	41.10	13.70	8.22	29.10	9.70	5.82
	1.31	0.85	0.55	0.97	0.63	0.42
14	55.80	18.60	11.16	39.50	13.16	7.90
	1.70	1.11	0.72	1.22	0.79	0.51
16	72.20	24.06	14.44	51.10	17.03	10.22
	2.14	1.39	0.90	1.54	1.00	0.65



NOTE:
ALL CONCRETE BLOCKING MUST HAVE ITS ENTIRE FACE (X & Y) BEARING SURFACE AGAINST UNDISTURBED SOIL AND ALL VERTICAL NON-BEARING SURFACES SHALL BE FORMED SO AS TO KEEP CONCRETE FROM JOINTS. BLOCKING DESIGN BASED ON COMBINED WORKING PRESSURE PLUS WATER HAMMER OF 240 PSI AND FOR BEARING CAPACITY FOR SAND - 1000 PSF, SAND AND GRAVEL - 3000 PSF, SHALE - 5000 PSF.

THRUST BLOCKING DETAIL

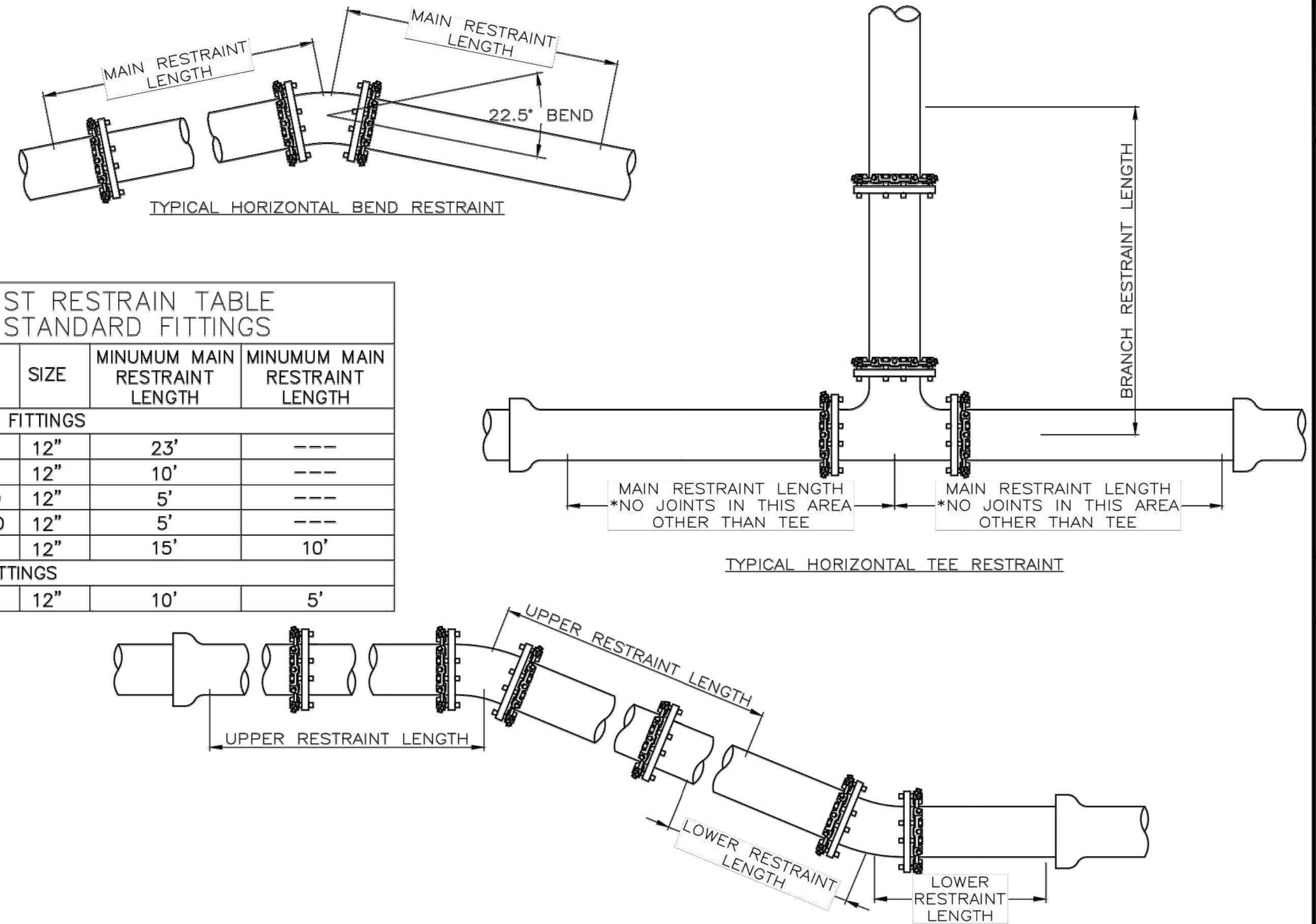
NOT TO SCALE



- NOTES:**
- MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
 - FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
 - PIPE EMBEDMENT:
 - CLASS A:** CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - CLASS B:** CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - CLASS C:** CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE. WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
 - FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
 - SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT - EARTHWORK.
 - CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED FOR EACH LATERAL, UPSTREAM OF EVERY MANHOLE, AS SHOWN ON THE DRAWINGS, AND AS DIRECTED BY THE ENGINEER.
 - GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
 - DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 24" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

TRENCHING, EMBEDMENT, AND BACKFILL DETAIL

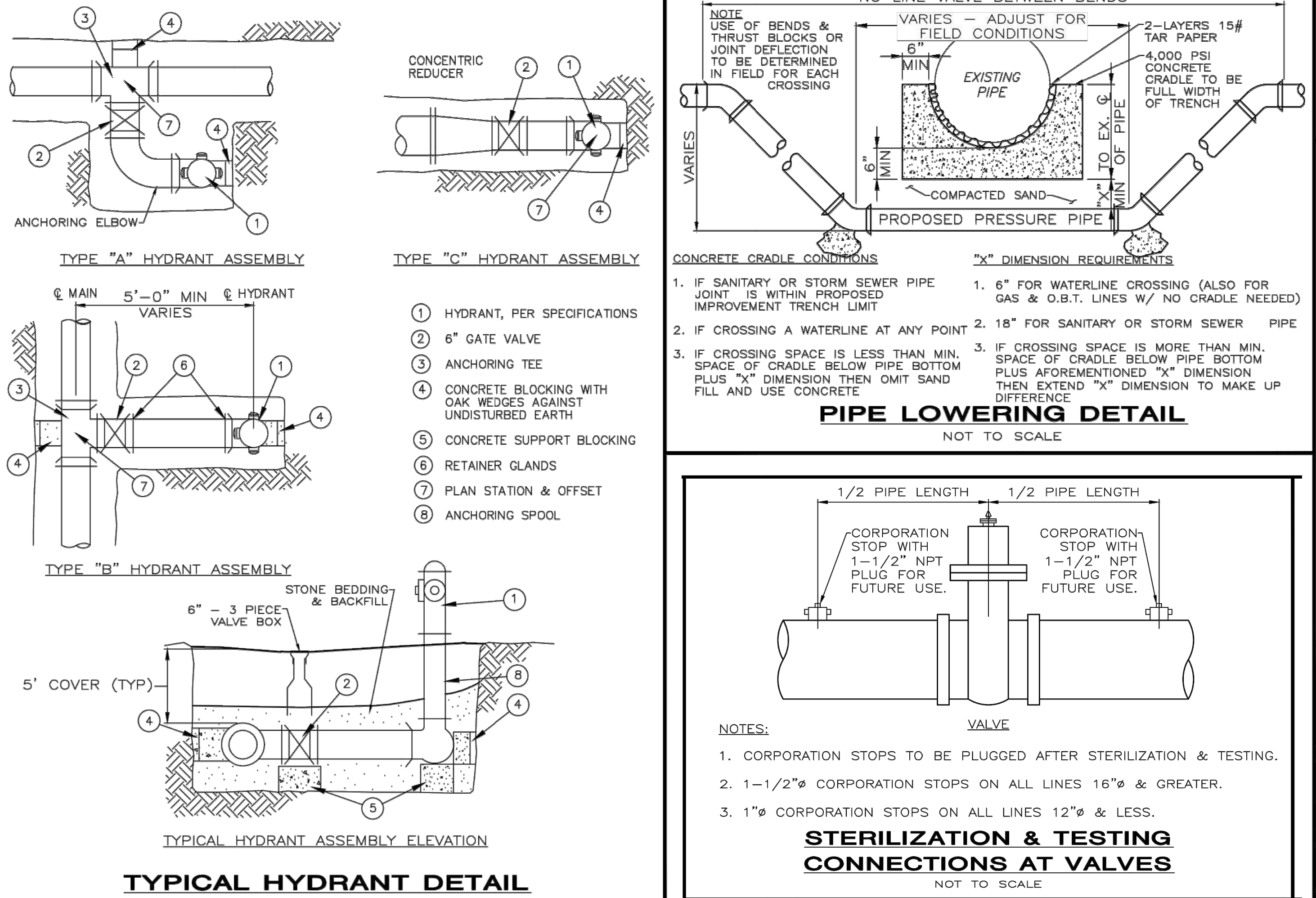
NOT TO SCALE



THRUST RESTRAIN TABLE FOR STANDARD FITTINGS			
FITTING	SIZE	MINIMUM MAIN RESTRAINT LENGTH	MINIMUM MAIN RESTRAINT LENGTH
HORIZONTAL FITTINGS			
90° BEND	12"	23'	---
45° BEND	12"	10'	---
22.5° BEND	12"	5'	---
TEE	12"	15'	10'
VERTICAL FITTINGS			
	12"	10'	5'

TYPICAL VERTICAL BEND RESTRAINT

NOT TO SCALE



Ohio Utilities Protection Service
Call 811
before you dig

THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN AS APPROXIMATE AND HAVE NOT BEEN VERIFIED BY MG CIVIL DESIGN, LLC. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

MG CIVIL DESIGN, LLC OR OWNER WILL NOT ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY ON OR OFF-SITE STRUCTURE OR OF ANY OTHER PERSONS ON OR NEAR THE CONSTRUCTION SITE. THE SAFETY OF THE CONSTRUCTION SITE AND PLACES NEAR ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

THESE DRAWINGS ARE THE PROPERTY OF MG CIVIL DESIGN AND NO PRODUCTION OF THESE DRAWINGS SHALL OCCUR WITHOUT THE WRITTEN CONSENT OF MG CIVIL DESIGN, LLC.

MG CIVIL DESIGN
255 PARK PLACE
CHAGRIN FALLS, OHIO 44022
(216) 408-6074

SPIRE INSTITUTE
DORM VILLAGE 2B
WATERMAIN DETAILS

REVISIONS
06-10-22 OWNER REVIEW

06-17-22 REV. UTIL. #10

10-14-22 GRADING PLAN

11-08-22 OEPA SUBMITTAL

SCALE:

PROJECT NUMBER:
20004
PROJECT ADDRESS:
5201 SPIRE CIRCLE
GENEVA, OHIO 44041

DATE:
MAY 1, 2022

SHEET NUMBER:

Environmental Services

Water Distribution

Wastewater Collection & Treatment

Douglas Starkey, Director

**Board of Commissioners**

J.P. Ducro IV, President

Casey R. Kozlowski, Vice-President

Kathryn L. Whittington

November 15, 2022

Ohio EPA

2110 E. Aurora Rd

Twinsburg, OH 44087

Re: Phase 2B-Spire Institute Dorm Village Construction Plans

To whom it may concern,

The Spire Institute Dorm Village project and proposed sanitary sewer main extension as represented on the design plans is located in Harpersfield Township, Ashtabula County.

The Board of Commissioners of Ashtabula County understand that this sewer is owned and maintained by the City of Geneva. We approve of the sanitary sewer improvements shown on the plans relating to the Spire Dorm Village-Phase 2B.

Sincerely,

Ashtabula County Commissioners

J. P. Ducro IV, President

Casey Kozlowski, Vice-President

Kathryn Whittington

ASHTABULA COUNTY
COMMISSIONERS
J. P. Ducro IV
Casey R. Kozlowski
Kathryn L. Whittington



Where great things happen.

25 W. Jefferson St.
Jefferson, OH 44047-1092
Phone: (440) 576-3750
Fax: (440) 576-2344
commissioners@ashtabulacounty.us

November 15, 2022

Ohio EPA
2110 E. Aurora Rd
Twinsburg, OH 44087

Re: Phase 2B-Spire Institute Dorm Village Construction Plans

To whom it may concern,

The Spire Institute Dorm Village project and proposed sanitary sewer main extension as represented on the design plans is located in Harpersfield Township, Ashtabula County.

The Board of Commissioners of Ashtabula County understand that this sewer is owned and maintained by the City of Geneva. We approve of the sanitary sewer improvements shown on the plans relating to the Spire Dorm Village-Phase 2B.

Sincerely,

Ashtabula County Board of Commissioners

J. P. Ducro IV, President

Casey Kozlowski, Vice-President

Kathryn Whittington, Commissioner