# STATE COLLEGE BOROUGH WATER AUTHOF FERGUSON TOWNSHIP, CENTRE COUNTY, PENNS

# NIXON-KOCHER WATER TREATMENT FACILITY

# <u>OWNER'S STORMWATER MANAGEMENT CERTIFICATION</u>

THE STATE COLLEGE BOROUGH WATER AUTHORITY (OWNER) ACKNOWLEDGES THAT ANY STORMWATER MANAGEMENT SYSTEMS IDENTIFIED ON THIS LAND DEVELOPMENT PLAN ARE PERMANENT FIXTURES THAT MAY BE ALTERED OR REMOVED ONLY AFTER APPROVAL BY FERGUSON TOWNSHIP AND/OR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION OF A REVISED STORMWATER MANAGEMENT PLAN. FURTHERMORE, FERGUSON TOWNSHIP AND THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, ITS AGENTS AND ASSIGNS, ARE EXPRESSLY AUTHORIZED RIGHT-OF-ENTRY OVER AND THROUGH THE PROPERTY FOR THE PURPOSE OF INSPECTING ALL STORMWATER FACILITIES IDENTIFIED IN THIS LAND DEVELOPMENT PLAN UPON NOTIFICATION TO THE AUTHORITY. THE STORMWATER MANAGEMENT SYSTEM IS TO BE MAINTAINED IN ACCORDANCE WITH THE RECORDED OPERATION AND MAINTENANCE (O&M) PROGRAM.

SIGNATURE

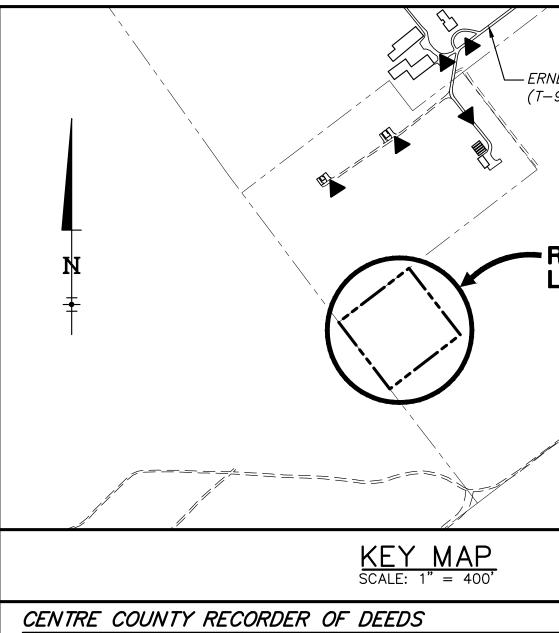
PRELIMINARY LAND DEVELOPMENT PLANS

FOR

# JUNE 26, 2019 LAST REVISED AUGUST 12, 2019



ENGINEERS 3121 Fairway Drive Altoona, PA 16602 814.943.5214 gdfengineers.com



RITY YLVANIA	N T T	ERNEST LANE (T-982) RE-PLOT LOCATION
	<u>CENTRE COUNTY F</u>	DENOTES DRIVEWAY <u>KEY MAP</u> SCALE: 1" = 400' <u>RECORDER OF DEEDS</u>
PROJECT NOTES	COMMONWEALTH OF PENNS	
<ol> <li>GENERAL SITE/LOT INFORMATION</li> <li>A. OWNER/DEVELOPER: STATE COLLEGE BOROUGH WATER AUTHORITY</li> <li>B. TAX PARCEL NUMBER/LOT ACREAGE: 24-003-007F-0000/18.047 ACRES</li> <li>C. PROPERTY ADDRESS: 3062 ERNEST LANE</li> <li>D. RECORD BOOK/PAGE NUMBER: 410/533</li> <li>E. LAND IS ZONED: RURAL AGRICULTURAL (RA)</li> <li>F. BUILDING SETBACK LINE: FRONT YARD = 50' SIDE YARD = 50' REAR YARD = 50'</li> </ol>	BEFORE ME AND CERTIFIED	, 20, THE UNDERSIGNED OWNER(S), PERSONALLY APPEARED O THAT THEY WERE THE OWNER(S) OF THE PROPERTIES SHOWN ON THIS PLAN AME TO BE THEIR ACT AND PLAN AND DESIGNS, THE SAME TO BE RECORDED AS
G. LOT REQUIREMENTS: EXISTING LOT AREA (FOLLOWING RE PLOT) = 786,137 S.F. OR 18.047 ACRES MAXIMUM BUILDING HEIGHT = 40'	OWNER SIGNATURE	OWNER PRINT NAME OWNER TITLE
PROPOSED = 39.89' H. EXISTING LAND USE: FORESTED LAND/AGRICULTURAL I. PROPOSED LAND USE: WATER TREATMENT FACILITY	WITNESS MY HAND AND SE	EAL, THIS DATE,
<ul> <li>J. REQUIRED PARKING: 1 SPACE/4000 GFA (19,883 GFA/4000 = 5 SPACES) AND 1 LOADING SPACE</li> <li>K. PROPOSED PARKING: 7 SPACES (5 STANDARD, 1 ADA AND 1 LOADING SPACE)</li> </ul>	NOTARY PUBLIC	COMMISSION EXPIRES
L. BOUNDARY AND TOPOGRAPHIC INFORMATION BASED ON FIELD INSTRUMENT SURVEY COMPLETED BY GWIN, DOBSON AND FOREMAN, INC., COMPLETED FEBRUARY 9, 2018.	DESIGN PROFESSIO	NAL CERTIFICATION
M. SOILS INFORMATION FROM UNITED STATE DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE. ONSITE SOILS CONSIST PRIMARILY OF SANDY LOAMS UNDERLAIN BY CARBONATE ROCK. N. EXISTING FLOODPLAIN INFORMATION FROM FIRM MAP NO. 42027C0618F,		, PE, HAVE REVIEWED AND HEREBY CERTIFY THAT THIS LAND DEVELOPMENT REMENTS OF THE SUBDIVISION AND LAND DEVELOPMENT ORDINANCE, ZONING
EFFECTIVE DATE MAY 4, 2009, IS INDICATED ON THESE PLANS. O. THERE WAS ONE WETLAND AREA IDENTIFIED THROUGH FIELD INVESTIGATION NEAR THE EXISTING CHLORINATION BUILDING. HOWEVER, THERE ARE NO	ORDINANCE AND ALL OTHE	R APPLICABLE CHAPTERS OF THE FERGUSON TOWNSHIP CODE.
WETLANDS WITHIN THE ENVIRONS OF THE PROJECT LIMITS. P. THERE ARE NO STEEP SLOPES (>25%) WITHIN THE ENVIRONS OF THE PROJECT LIMITS.		NAL STORMWATER CERTIFICATION
2. LOT COVERAGE: A. MAXIMUM BUILDING COVERAGE = 15%		, PE, HEREBY CERTIFY THAT THE STORMWATER MANAGEMENT PLAN MEETS ALL CRITERIA OF THE FERGUSON TOWNSHIP STORMWATER MANAGEMENT ORDINANCE.
B. PROPOSED BUILDING COVERAGE = 22,182 SQ. FT. OR 2.82% C. MAXIMUM IMPERVIOUS COVERAGE = $50\%$ D. PROPOSED IMPERVIOUS COVERAGE = 22,182 SQ. FT. (BUILDING)		IIP ENGINEER CERTIFICATION
= 71,618 SQ. FT. (PAVEMENT/CONCRETE) = 93,804 SQ. FT. (TOTAL OR 11.93%)	I,	, HAVE REVIEWED AND HEREBY CERTIFY THAT THE PLAN MEETS ALL
<ol> <li>DATE OF ZONING PERMIT APPLICATION: JUNE 26, 2019</li> <li>LIST OF APPROVED VARIANCES: (FEBRUARY 26, 2019)</li> </ol>		DARDS AND CRITERIA OF THE FERGUSON TOWNSHIP CODE OF ORDINANCES.
<ul> <li>A. §27–213.4: VARIANCE TO ENCROACH UPON THE FIFTY (50) FOOT RIPARIAN BUFFER</li> <li>B. §27–801.1: VARIANCE TO WAIVE REQUIREMENTS OF INDEPENDENT HYDROLOGIC AND HYDRAULIC (H&amp;H) STUDY</li> <li>C. §27–801.1.C.(1): VARIANCE TO ALLOW IMPROVEMENTS WITHIN THE FLOODPLAIN</li> <li>D. §27–801.1.H: VARIANCE TO ALLOW CONSTRUCTION ACTIVITIES AND IMPROVEMENTS WITHIN THE FLOODWAY</li> </ul>	l,	, HAVE REVIEWED THIS STORMWATER MANAGEMENT PLAN IN ESIGN STANDARDS AND CRITERIA OF THE FERGUSON TOWNSHIP STORMWATER
E. §27–801.1.I: VARIANCE TO ENCROACH UPON THE FIFTY (50) FOOT FLOODPLAIN BUFFER F. §27–501.1.A VARIANCE TO MINIMUM LOT AREA (50 ACRES)	FERGUSON TOWNSH	HP PLANNING COMMISSION
G. §27–903 NONCONFORMING USE IN RURAL AGRICULTURAL ZONING DISTRICT 5. VARIANCE DECISION (FEBRUARY 26, 2019): APPLICANT'S REQUEST FOR		FERGUSON TOWNSHIP PLANNING COMMISSION APPROVED
VARIANCES FROM THE FLOODPLAIN REGULATIONS, INCLUDING SECTION 27-213.4 (RIPARIAN BUFFER OVERLAY), SECTION 27-801.1 (HYDROLOGIC AND HYDRAULIC STUDIES), SECTION 27-801.1C (NO NEW CONSTRUCTION WITHIN FLOODPLAINS); SECTION 27-801.H (NO NEW CONSTRUCTION IN FLOODWAYS) AND SECTION 27-801.I (NO ENCROACHMENT INTO 50 FOOT FLOODPLAIN BUFFER), ARE ALL GRANTED BY A VOTE OF 5 TO 0; PROVIDED	SECRETARY	DATE
THAT AS A CONDITIÓN TO THE GRANT OF THE VARIANCE, THE APPLICANT SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL FLOOD INSURANCE PROGRAM REGULATIONS (60.3 a,b AND c), AND PROVIDED		IIP BOARD OF SUPERVISORS
FURTHER THAT THE TOWNSHIP MUST ISSUE A LETTER TO THE APPLICANT ADVISING IT OF THE RISK OF AN INCREASE IN PREMIUM RATES FOR FLOOD INSURANCE AND AN INCREASE IN THE RISKS TO LIFE AND PROPERTY BECAUSE OF THE GRANT OF THE VARIANCE.	f	FERGUSON TOWNSHIP BOARD OF SUPERVISORS APPROVED
THE APPLICANT'S REQUEST FOR A VARIANCE FROM SECTION 27-501.1A (MINIMUM LOT AREA) IS GRANTED AS DE MINIMIS BY A VOTE OF 5 TO 0. THE APPLICANT'S REQUEST FOR A VARIANCE FROM SECTION 27-903 (NON-CONFORMING USES) IS GRANTED BY A VOTE OF 5 TO 0.	SECRETARY	DATE
6. THE PROPOSED BUILDING IS NOT REQUIRED TO BE SPRINKLERED BASED ON USE/OCCUPANCY.	CHAIRMAN FERGUSON TOWNSH	DATE
7. EXISTING FIRE HYDRANT FLOW DATA: HYD # LOCATION STATIC RESIDUAL FLOW DATE		FERGUSON TOWNSHIP ZONING OFFICER APPROVED
" 50001.00 3062 ERNEST LN 102psi 74psi 2050gpm 6/22/18 (WELL FIELD)	ZONING OFFICER	DATE
50002.00 ÈRNEST LN 82psi 68psi 2000gpm 8/16/17 8. THIS RECORD PLAN CONFORMS WITH THE PLAN RECEIVING FINAL APPROVAL BY THE FERGUSON TOWNSHIP BOARD OF SUPERVISORS ON	FIRE CHIEF CERTIFI	ICA TION
ALL IMPROVEMENTS ARE OR WILL BE INSTALLED IN ACCORDANCE WITH SUCH PLAN IN A MANNER AND TIME SO SPECIFIED THEREIN.	I HAVE REVIEWED AND HEI ON THIS PLAN ARE ADEQU	REBY CERTIFY THAT THE LOCATION OF FIRE LANES AND FIRE HYDRANTS SHOWN JATE.
9. FINAL LAND DEVELOPMENT PLANS (AS-BUILTS) SHALL BE PROVIDED TO FERGUSON TOWNSHIP PRIOR TO OCCUPANCY OR RELEASE OF ANY SURETY.		- ·
	FIRE CHIEF	COVER SHEET
	REGISTERED PROFESSIONAL	STATE COLLEGE BOROUGH WATER AUTHORITY
	KENNETH WILLIAM BELDIN, JR.	NIXON_KOCHER
	No. PEOB1568	WATER TREATMENT FACILITY Altoona, PA 16602 814.943.5214
1     8/12/19     REVISED PER TOWNSHIP COMMENTS       NO.     DATE     DESCRIPTION	SEAL	gdfengineers.com       FERGUSON TOWNSHIP, CENTRE COUNTY, PENNSYLVANIA       DATE:     8/12/19       JOB:     16049       SCALE:     AS SHOWN
REVISIONS		Date:       8/12/19       JOB:       16049       SCALE:       AS SHOWN       CS-1         FILE:       16049 LD_CS1       DRAWN BY:       RLN       CHECKED BY:       CS-1         TED       ON       JUNE       27, 2019.       G: \16049 \LAND       DEVELOPMENT \16049       LD_CS1

			FILE:	16049	LD_CS1	DRAW	N BY:	RLN	CH
RECORD	SET	SUBMIT	ted	ON	JUNE	27,	2019	).	



# COMMONWEALTH OF PENNSYLVANIA ACT NO. 28

THE CONTRACTOR SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF ACT NO. 287 OF THE GENERAL ASSEMBLY OF THE COMMONWEALTH OF PENNSYLVANIA, AS AMENDED BY ACT NO. 187 OF 1996, AS AMENDED BY AC NO. 181 OF 2006, EFFECTIVE MARCH 29, 2007, AND AS AMENDED BY ACT 121 OF 2008, EFFECTIVE OCTOBER 9, 2008.

THE FOLLOWING IS A LIST OF MEMBERS LOCATED WITHIN THE PROJECT AREA:

WATER/ WASTEWATER: UNIVERSITY AREA JOINT AUTHORITY 1576 SPRING VALLEY ROAD STATE COLLEGE, PA. 16801 CONTACT: MARK HARTER EMAIL: mharter@uaja.com (814) 238–8370 PENN STATE UNIVERSITY WASTEWATER TREATMENT PLANT 501 UNIVERSITY DRIVE STATE COLLEGE, PA. 16801

ROADS/

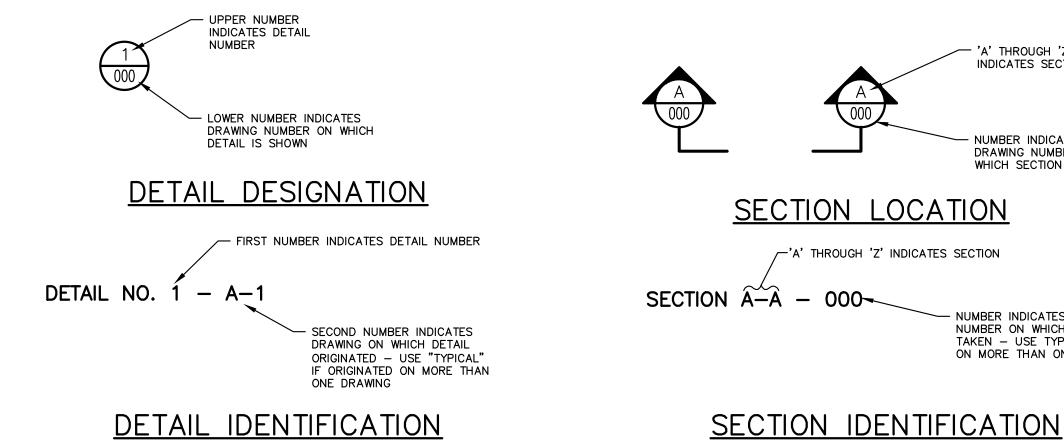
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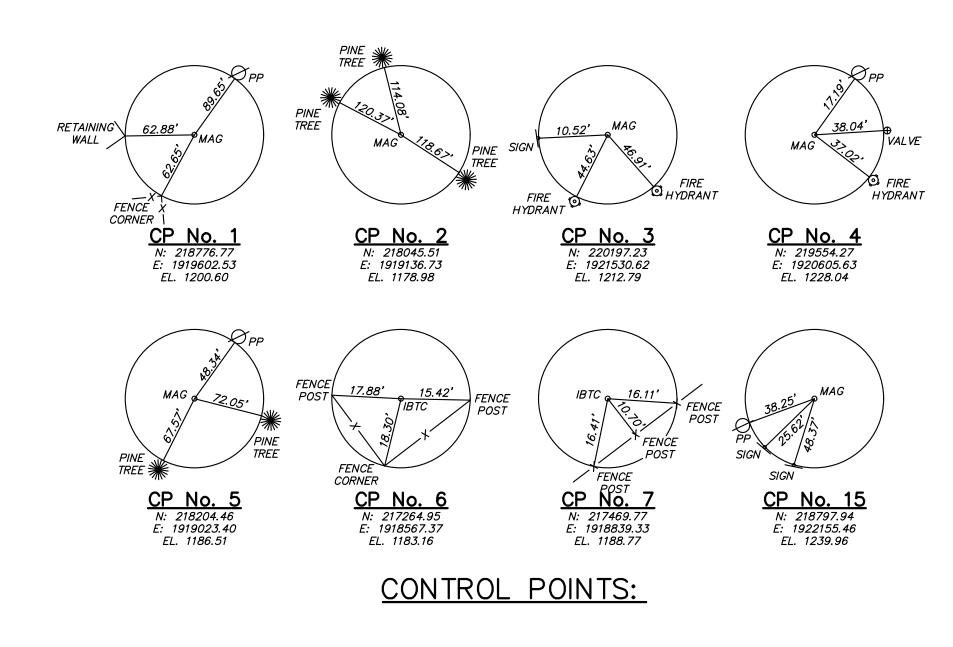
ELECTRIC:

WEST PENN POWER 800 CABIN HILL DRIVE ROOM B100N GREENSBURG, PA 15601 CONTACT: ROBERT PAINTER EMAIL: rpainte@firstenergycorp.com FERGUSON TOWNSHIP CENTRE COUNTY 3147 RESEARCH DRIVE STATE COLLEGE, PA. 16801 CONTACT: CHRIS LEIDY EMAIL: cleidi@twp.ferguson.pa.us

CONTACT: JEFF MCDONALD EMAIL: jam86@psu.edu STATE COLLEGE BOROUGH WATER AUTHORITY 1201 WEST BRANCH ROAD STATE COLLEGE, PA. 16801 CONTACT: STEVE ALBRIGHT EMAIL: steve@scbwa.org (814) 238–0885







**BENCHMARKS**:

BM-A - CROSS CUT ON CORNER OF CONCRETE HEADWALL LOCATED WEST OF WELL BUILDING, EL. 1176.19. BM-B - CROSS CUT ON CORNER OF CONCRETE PAD LOCATED EAST OF WELL BUILDING NO. 43, EL. 1179.39. USGS CONCRETE MONUMENT - LOCATED AT INTERSECTION OF PROPOSED TEMPORARY CONSTRUCTION ACCESS AND SOUTH NIXON ROAD, EL. 1236.31.

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GENERAL NOTES:

## REPAIRS AND SERVICE MAINTENANCE. THE CONTRACTOR SHALL INCLUDE THESE COSTS IN THOSE ITEMS FOR WHICH PAYMENT SHALL BE MADE IN THE BID FORM. 2. CONTRACTOR SHALL IMPLEMENT ALL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

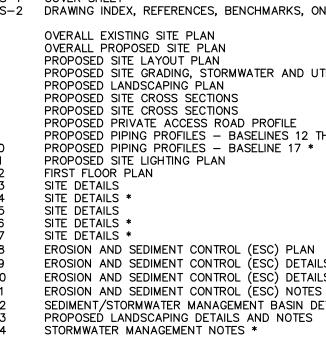
- 3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS, TO AN EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION. 4. THE CONTRACTOR WILL, AT ALL TIMES THROUGHOUT THE WORK, COOPERATE FULLY WITH THE OWNER IN PERMITTING ALL NECESSARY OPERATIONS OF THE OWNER TO
- PROCEED UNIMPEDED BY THE CONTRACTOR'S OPERATIONS. 5. DUE TO THE CHARACTER OF CERTAIN PORTIONS OF THE WORK, THE CONTRACTOR WILL REQUIRE THAT LIMITED LOCALIZED SYSTEM SERVICE OUTAGES BE PERMITTED BY OR THAT OPERATION CHANGES/ ADJUSTMENTS BE MADE BY THE OWNER TO ENABLE THE CONTRACTOR TO PROCEED WITH ITS WORK. SUCH OUTAGES, CHANGES AND/OR ADJUSTMENTS MAY BE REQUIRED FOR WORK ELEMENTS ASSOCIATED WITH THE INSTALLATION OF PIPING SYSTEMS AND INTERCONNECTIONS WITH EXISTING PIPING SYSTEMS; AND SIMILAR WORK. THE CONTRACTOR WILL CAREFULLY PLAN ITS WORK AND NOTIFY THE OWNER AT LEAST TEN (10) WORKING DAYS IN ADVANCE OF ANY WORK ELEMENTS WHICH MAY REQUIRE SUCH OUTAGES, CHANGES, AND/OR ADJUSTMENTS. THE OWNER WILL ENDEAVOR TO ACCOMMODATE THE CONTRACTOR'S PLANNED SCHEDULING IN THIS REGARD. HOWEVER, IN CERTAIN INSTANCES, THE ONGOING RESPONSIBILITIES OF THE OWNER AND/OR PREVAILING OPERATIONS MAY REQUIRE THAT THE CONTRACTOR'S PLANNED SCHEDULE BE ALTERED ACCORDINGLY. THE CONTRACTOR MUST BE PREPARED TO ADJUST ITS SCHEDULE TO SUIT THE NEEDS OF THE OWNER AND TO PERFORM CERTAIN CRITICAL WORK ELEMENTS IN THE EVENINGS, OVER WEEKENDS, OR ON AN AROUND-THE-CLOCK BASIS, SHOULD THE OWNER DETERMINE THAT SUCH PROCEDURES AND WORK SCHEDULES ARE NECESSARY AND APPROPRIATE. THE CONTRACTOR WILL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION ON ACCOUNT OF SUCH ALTERATIONS TO ITS WORK SCHEDULE AND/OR HOURS OF WORK SHOULD SUCH BE DEEMED NECESSARY BY THE OWNER. THE
- DECISION OF THE OWNER IN THIS REGARD WILL BE FINAL. 6. SERVICE OUTAGES WILL BE KEPT TO THE MINIMUM EXTENT PRACTICABLE. THE CONTRACTOR WILL MAINTAIN A RECORD OF THE DATE, TIME, AND DURATION OF ALL OUTAGES THROUGHOUT THE PERFORMANCE OF THE WORK AND WILL SUBMIT THIS RECORD MONTHLY TO THE ENGINEER ALONG WITH ITS PERIODIC ESTIMATES FOR PAYMENT. IN NO EVENT WILL ANY SERVICE BE PERMITTED TO BE CURTAILED DURING NONWORKING HOURS, OVERNIGHT, OR OVER WEEKENDS OR HOLIDAYS, UNLESS SPECIFICALLY APPROVED AND PLANNED IN ADVANCE BY THE ENGINEER AND OWNER. ALL PIPING MATERIALS AND PLANT NECESSARY TO INSTALL THE WORK NECESSITATING THE OUTAGE MUST BE ON SITE AND READY FOR INSTALLATION BEFORE NOTIFYING THE OWNER OF THE ANTICIPATED SHUTDOWN.
- 7. THE CONTRACTOR WILL PLAN, COORDINATE, AND SEQUENCE ITS WORK IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH HEREIN AND TO MEET THE NEEDS OF THE OWNER. THE OWNER RESERVES THE RIGHT TO COORDINATE THE SEQUENCING OF WORK ELEMENTS IN WHOLE OR IN PART AS THE JOB CONDITIONS MAY REQUIRE SAME, TO PROPERLY INTERFACE THE WORK OF THE PROJECT WITH PLANT OPERATIONS.
- 8. THE NATURE, LOCATION, CAPACITY, AND TYPE OF FACILITIES INTENDED FOR MAINTAINING CONTINUITY OF OWNER OPERATIONS WILL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE OWNER AND ENGINEER.
- 9. THE CONTRACTOR MUST AT ALL TIMES COORDINATE ITS WORK SCHEDULE AND SEQUENCING, THROUGH THE OWNER AND ENGINEER, TO AVOID INTERFERENCE WITH NECESSARY OPERATIONS. IT IS ANTICIPATED THAT MAJOR ALTERATIONS OR ADJUSTMENTS TO THE SEQUENCING AND SCHEDULING OF THE WORK WILL BE PLANNED IN ADVANCE AT THE REGULARLY SCHEDULED PROJECT MEETINGS DURING WHICH REPRESENTATIVES OF THE OWNER AND THE CONTRACTOR WILL COORDINATE THE WORK ELEMENTS IN SUCH A WAY AS WILL BEST MEET THE NEEDS OF THE OWNER.
- 10. THE CONTRACTOR MUST COORDINATE ALL CONSTRUCTION ACTIVITIES AND PROVIDE MONTHLY WRITTEN SCHEDULES WITH WATER OPERATING PERSONNEL AND THE ENGINEER TO INSURE MINIMAL IMPACT ON THE OPERATION OF THE WATER SYSTEM. THIS WOULD INCLUDE DIVERSION OF WATER, WATER MANAGEMENT OF ANY KIND, LOGISTICAL FUNCTIONS, DELIVERIES, CONSTRUCTION ACTIVITIES IN CLOSE PROXIMITY TO THE SYSTEM, CLEAN-UP, SCHEDULING, STORAGE OF MATERIALS AND EQUIPMENT, OFFICE TRAILERS, STAGING FUNCTIONS, ANY OTHER ACTIVITIES THAT MAY IMPACT THE OWNER'S FACILITIES. FAILURE OF THE CONTRACTOR TO COMPLY WITH THE PROVISIONS OF THIS SPECIFICATION MAY BE CAUSE FOR THE OWNER/ENGINEER TO ORDER AN IMMEDIATE STOPPAGE OF THE WORK UNTIL THE SITUATION IS RECTIFIED TO THE SATISFACTION OF THE OWNER/ENGINEER.
- 11. IN THE ADMINISTRATION OF THIS CONTRACT, THE OWNER INTENDS TO EXERCISE DISCRETION IN A REASONABLE AND EQUITABLE MANNER TO PROTECT ITS INTERESTS AND TO PROMOTE TIMELY AND PROPER COMPLETION OF THE WORK OF THIS CONTRACT. SHOULD ANY DISPUTES ARISE WITH RESPECT TO THE COORDINATION OF THE WORK OF THIS CONTRACT AND THAT OF THE OWNER'S OPERATIONS, WHICH REQUIRE SETTLEMENT, THE DECISION OF THE ENGINEER WILL BE FINAL. 12. ALL OUTAGES MUST BE COORDINATED/SCHEDULED WITH OWNER AND THE OUTAGES SHALL BE A MAXIMUM OF 24 HOURS.
- 13. ALL EXCESS SPOIL MATERIAL SHALL BE TRANSPORTED AND DISPOSED OF AT A LOCATION WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN AND/OR NPDES PERMIT. REMOVAL AND PROPER DISPOSAL/RECYCLING OF ANY EXCESS EARTH AND ANY CONSTRUCTION WASTE, EXCESS CONSTRUCTION MATERIAL OR ANY OTHER WASTE GENERATED BY CONSTRUCTION ACTIVITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SEE EROSION AND SEDIMENT CONTROL NOTES.
- 14. HORIZONTAL INFORMATION IS REFERENCED TO THE PENNSYLVANIA STATE PLANE NORTH ZONE (NAD 83), VERTICAL INFORMATION IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

— 'A' THROUGH 'Z' INDICATES SECTION

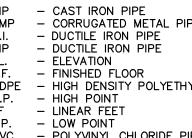
## NUMBER INDICATES DRAWING NUMBER ON WHICH SECTION IS SHOWN

## NUMBER INDICATES DRAWING NUMBER ON WHICH SECTION WAS TAKEN - USE TYPICAL IF TAKEN ON MORE THAN ONE DRAWING

# INDEX OF DRAWINGS



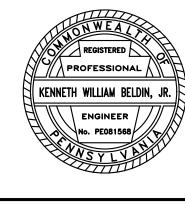
1. THE CONTRACTOR IS ADVISED OF THE EXISTENCE OF UNDERGROUND WATERLINES, SANITARY SEWERS, GAS LINES, SERVICE LINES, ELECTRIC AND TELEPHONE, AND OTHER UTILITIES. THE HORIZONTAL AND VERTICAL ALIGNMENTS ARE SHOWN ON THE DRAWINGS FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS ADVISED THAT PRIOR TO ANY EXCAVATION HE SHALL PERFORM EXPLORATORY EXCAVATIONS TO DETERMINE SAID LOCATIONS. IF CONFLICTS OCCUR WITH EXISTING UTILITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF SAID CONFLICTS. THE CONTRACTOR SHALL ADJUST THE LOCATION OF THE PROPOSED PIPING AND STRUCTURES AS COORDINATED AND APPROVED BY THE OWNER. THE CONTRACTOR SHALL UNDERSTAND THAT NO SEPARATE PAYMENT SHALL BE MADE FOR THE REQUIRED EXPLORATORY EXCAVATIONS OR SUBSEQUENT ADJUSTMENTS REQUIRED. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF EXPLORATORY EXCAVATIONS AND INCLUDE THE COSTS TO PERFORM SAID EXCAVATIONS AND ADJUSTMENTS IN THOSE ITEMS FOR WHICH PAYMENT SHALL BE MADE IN THE BID FORM. IN ADDITION, THE CONTRACTOR SHALL REPAIR ALL UTILITIES DAMAGED DURING THE COURSE OF CONSTRUCTION TO THE SATISFACTION OF THE THE OWNER. THE CONTRACTOR SHALL INSURE THE MAINTENANCE OF ALL UTILITY SERVICES AND LIMIT SHUTDOWNS, IF REQUIRED, TO A MINIMUM. NO SEPARATE PAYMENTS SHALL BE MADE FOR SAID UTILITY CS-1 COVER SHEET CS-2 DRAWING INDEX, REFERENCES, BENCHMARKS, ONE CALL AND NOTES PROPOSED SITE LAYOUT PLAN PROPOSED SITE GRADING, STORMWATER AND UTILITY PLAN \* PROPOSED PIPING PROFILES - BASELINES 12 THRU 14 \* 18 EROSION AND SEDIMENT CONTROL (ESC) DETAILS 19 EROSION AND SEDIMENT CONTROL (ESC) DETAILS EROSION AND SEDIMENT CONTROL (ESC) NOTES SEDIMENT/STORMWATER MANAGEMENT BASIN DETAILS \* \* - DENOTES DRAWINGS TO BE RECORDED WITH PCSM INSTRUMENT OF DECLARATION **ABBREVIATIONS:** CIP – CAST IRON PIPE CMP – CORRUGATED METAL PIPE D.I. – DUCTILE IRON PIPE DIP – DUCTILE IRON PIPE ELEVATION EL. – ELEVATION F.F. – FINISHED FLOOR HDPE - HIGH DENSITY POLYETHYLENE PIPE H.P. - HIGH POINT LF – LINEAR FEET L.P. – LOW POINT PVC – POLYVINYL CHLORIDE PIPE RCP - REINFORCED CONCRETE PIPE T.O.W. - TOP OF WALL VCP - VITRIFIED CLAY PIPE ESCRIPTION DRAWING INDEX, REFERENCES, BENCHMARKS, **GD&F** ONE CALL AND NOTES STATE COLLEGE BOROUGH GWIN WATER AUTHORITY DOBSON & FOREMAN ENGINEERS **NIXON-KOCHER** 3121 Fairway Drive WATER TREATMENT FACILITY Altoona, PA 16602 814.943.5214 gdfengineers.com INSYLVANIA SHEET NO: AS SHOWN CS-ED BY: WAA G: \16049 \LAND DEVELOPMENT \16049 LD\_CS

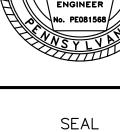


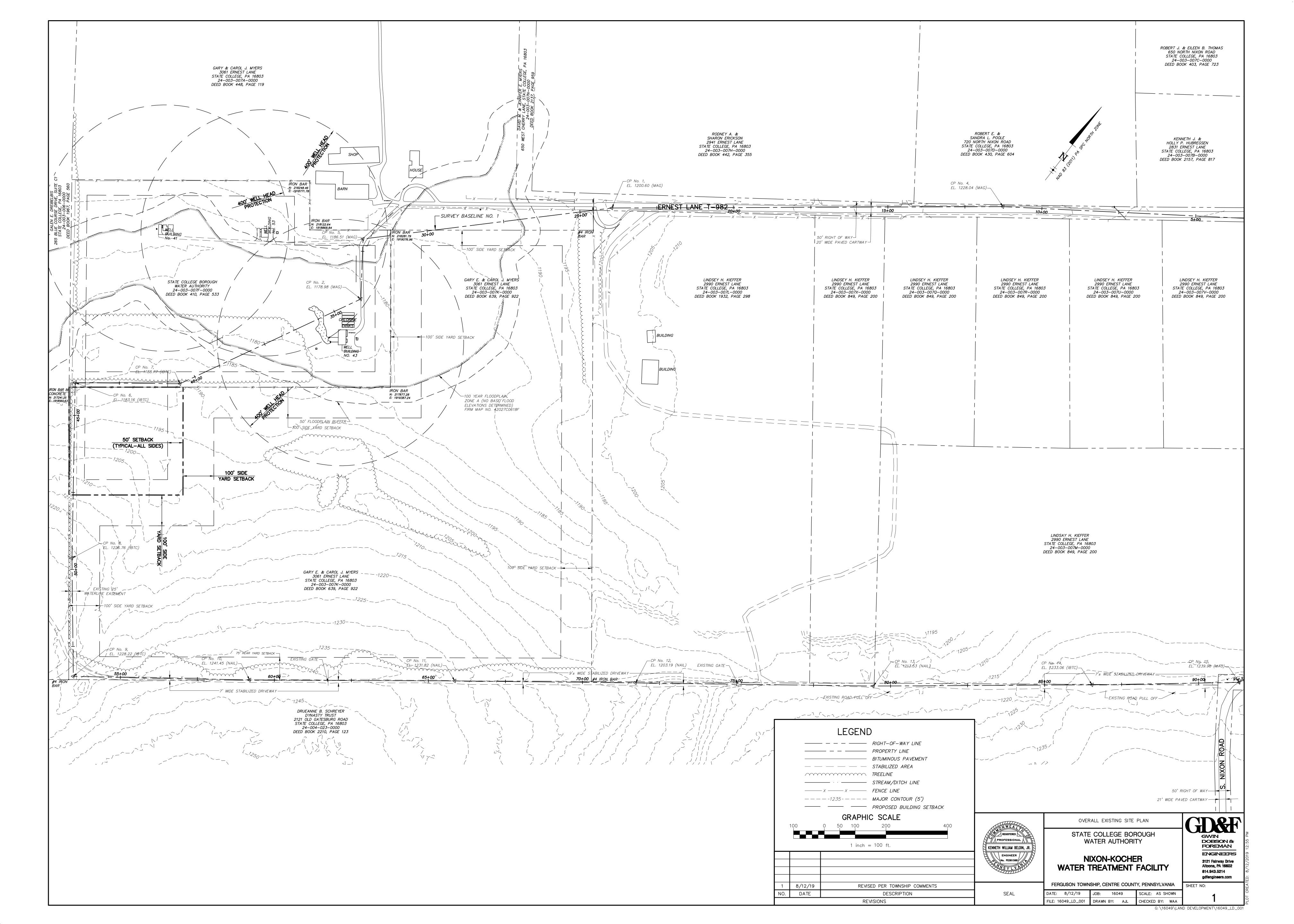
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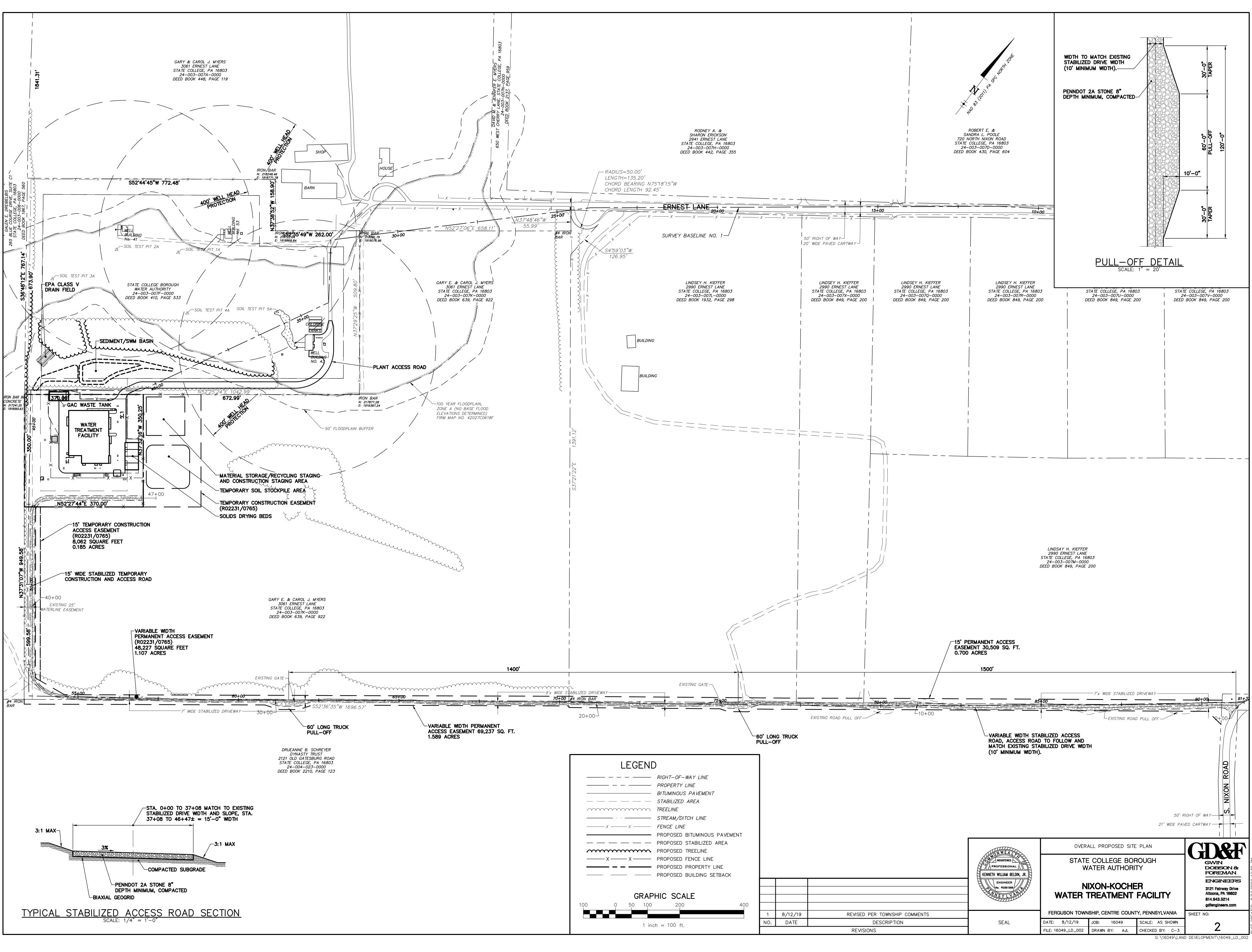
FERGUSON TOWN	SHIP, CENTRE COUNT	Y, PENN
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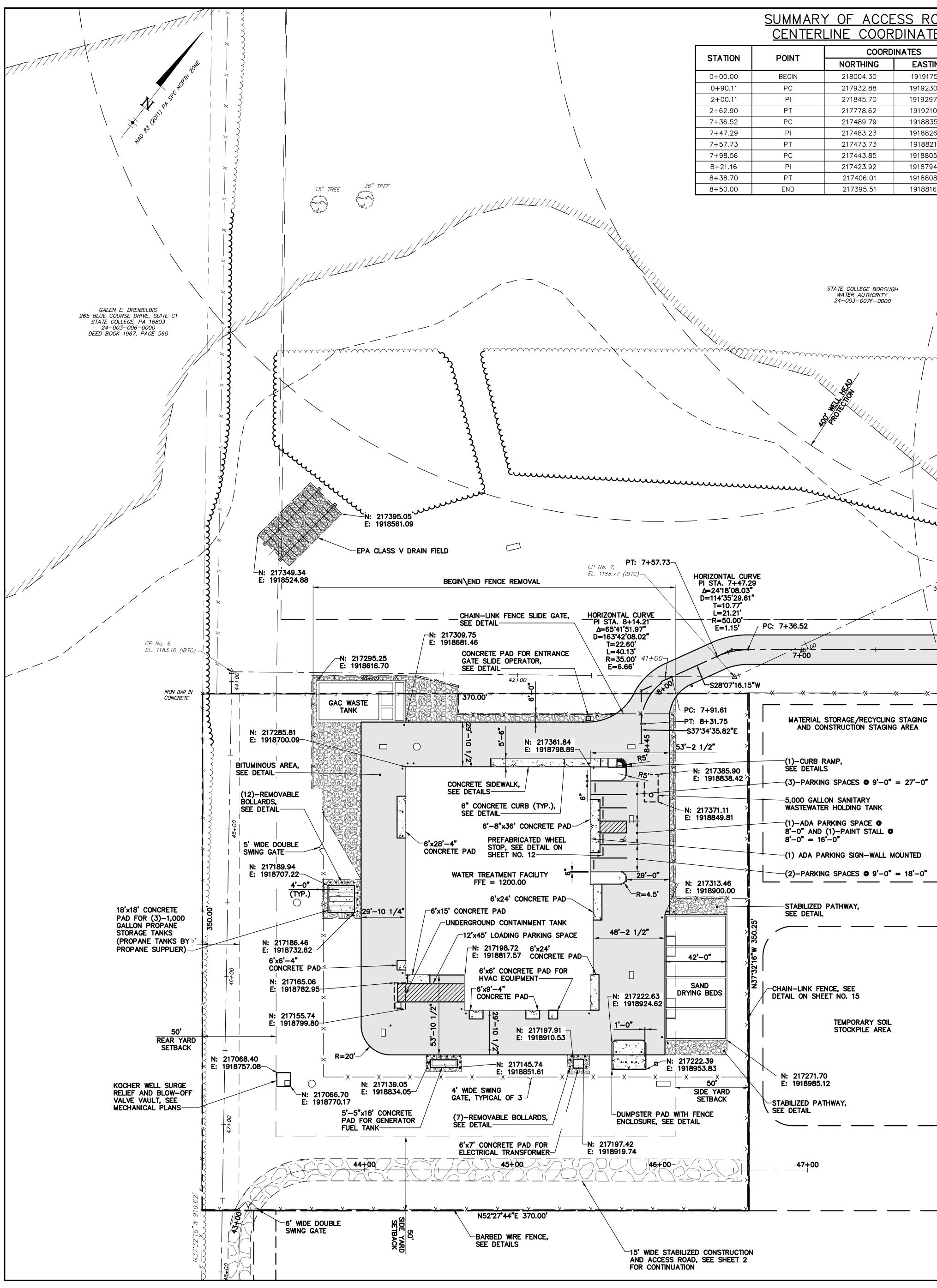












	SUMMARY OF ACCESS ROAD CENTERLINE COORDINATES													
STATION	POINT													
STATION	POINT	NORTHING	EASTING	BEARING										
0+00.00	BEGIN	218004.30	1919175.61	S37°34'35.82"E										
0+90.11	PC	217932.88	1919230.56											
2+00.11	PI	271845.70	1919297.64	S37°34'35.82"E										
2+62.90	PT	217778.62	1919210.46	S52°25'24.18"W										
7+36.52	PC	217489.79	1918835.10	S52°25'24.18"W										
7+47.29	PI	217483.23	1918826.56	S52°25'24.18"W										
7+57.73	PT	217473.73	1918821.49	S28°07'16.15"W										
7+98.56	PC	217443.85	1918805.52	S28°07'16.15"W										
8+21.16	PI	217423.92	1918794.87	S28°07'16.15"W										
8+38.70	PT	217406.01	1918808.65	S37°34'35.82"E										
8+50.00	END	217395.51	1918816.73	S37°34'35.82"E										
0+30.00		217395.51	1910010.73											

STATE COLLEGE BOROUGH WATER AUTHORITY 24–003–007F–0000

N52°27'44"E 370.00'

45+00

44

N: 217197.91

-N: 217145.74

E: 1918851.61

E: 1918910.53

<u>kepke</u>

-BARBED WIRE FENCE, SEE DETAILS

-15' WIDE STABILIZED CONSTRUCTION AND ACCESS ROAD, SEE SHEET 2 FOR CONTINUATION

Emmunition and the second seco

HORIZONTAL CURVE PI STA. 7+47.29

Δ=24°18'08.03" D=114°35'29.61"

T=10.77'

L=21.21' -R=50.00' E=1.15'

**└**S28<sup>•</sup>07'16.15<sup>•</sup>W

╼╼╼

└─PC: 7+91.61

—PT: 8+31.75

53'-2 1/2"

-N: 217385.90

E: 1918838.42

-N: 217371.11

E: 1918849.81

- N: 217313.46 E: 1918900.00

- XFFCCESS

**42'-0**"

SAND

DRYING BEDS

E: 1918953.83

SIDE YARD SETBACK

/-PC: 7+36.52

7+00

-(1)-CURB RAMP, SEE DETAILS

MATERIAL STORAGE/RECYCLING STAGING

AND CONSTRUCTION STAGING AREA

-(3)-PARKING SPACES **O** 9'-0" = 27'-0"

-5,000 GALLON SANITARY WASTEWATER HOLDING TANK

(1)-ADA PARKING SPACE O

-STABILIZED PATHWAY,

-CHAIN-LINK FENCE, SEE

**N: 217271.70** 

: 1918985.12

STABILIZED PATHWAY,

47+00

**\ SEE DETAIL** 

DETAIL ON SHEET NO. 15

SEE DETAIL

8'-0" AND (1)-PAINT STALL **0** 8'-0" = 16'-0"

-(1) ADA PARKING SIGN-WALL MOUNTED

(2)-PARKING SPACES **O** 9'-0" = 18'-0"

TEMPORARY SOIL

STOCKPILE AREA

\**6+00** 

\_\_\_\_\_\*<del>X/</del>\_\_\_\_\_

РТ: 7+57.73–<sub>\</sub>

CP No. 7,

42+00

N: 217361.84

E: 1918798.89

EL. 1188.77 (IBTC)—

HORIZONTAL CURVE PI STA. 8+14.21

**∆**=65\*41'51.97'

D=163'42'08.02"

T=22.60'

L=40.13'

R=35.00' 41+00 E=6.66'

R5'- T

10-

L\_\_l

29'-0"

`\_R=4.5'

48'-2 1/2"

N: 217222.63

<u>\_\_\_\_\_\_\_</u>\_\_

\_\_\_\_\_

**└**N: 217197.42 E: 1918919.74

l'—0"

E: 1918924.62

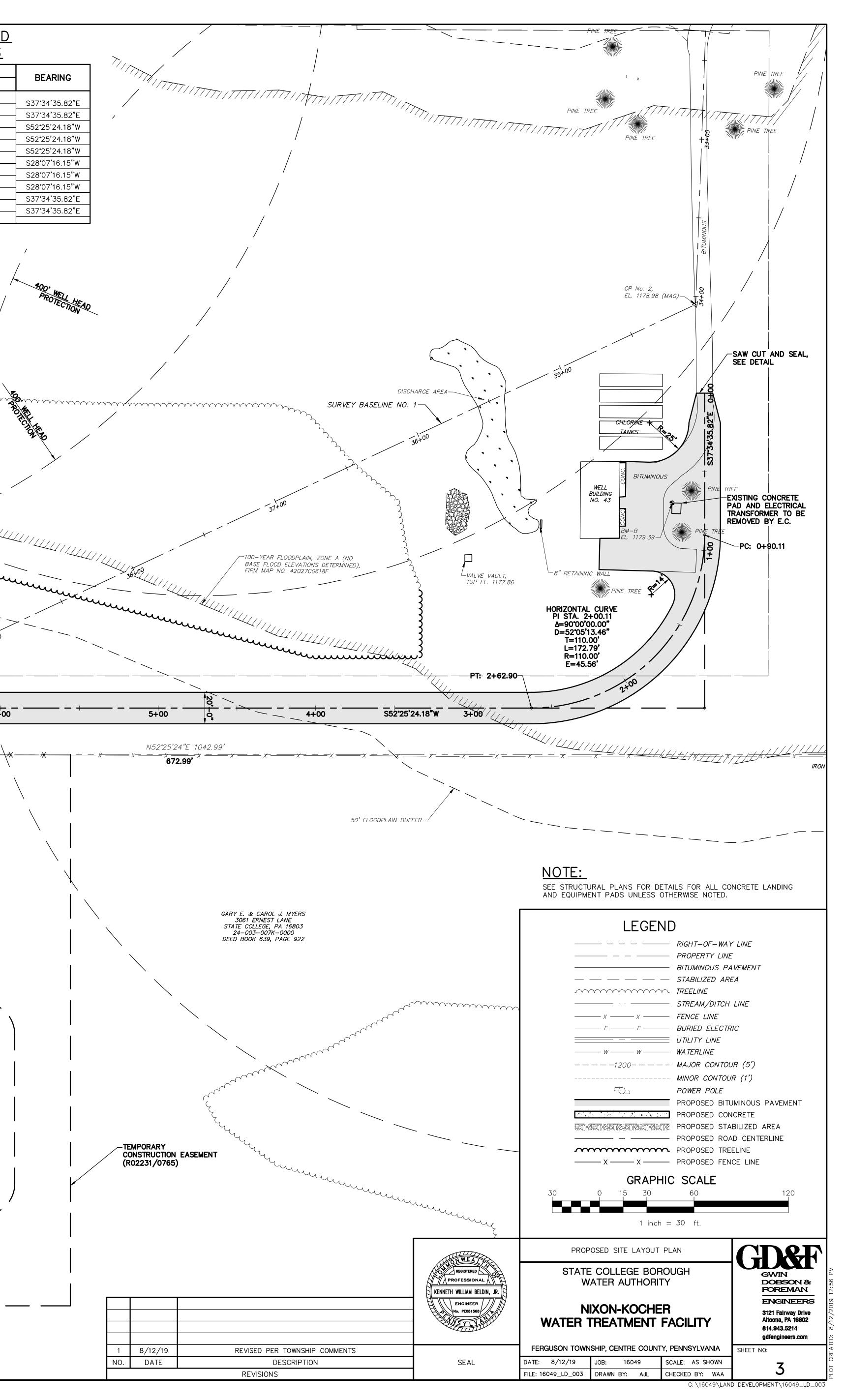
DUMPSTER PAD WITH FENCE

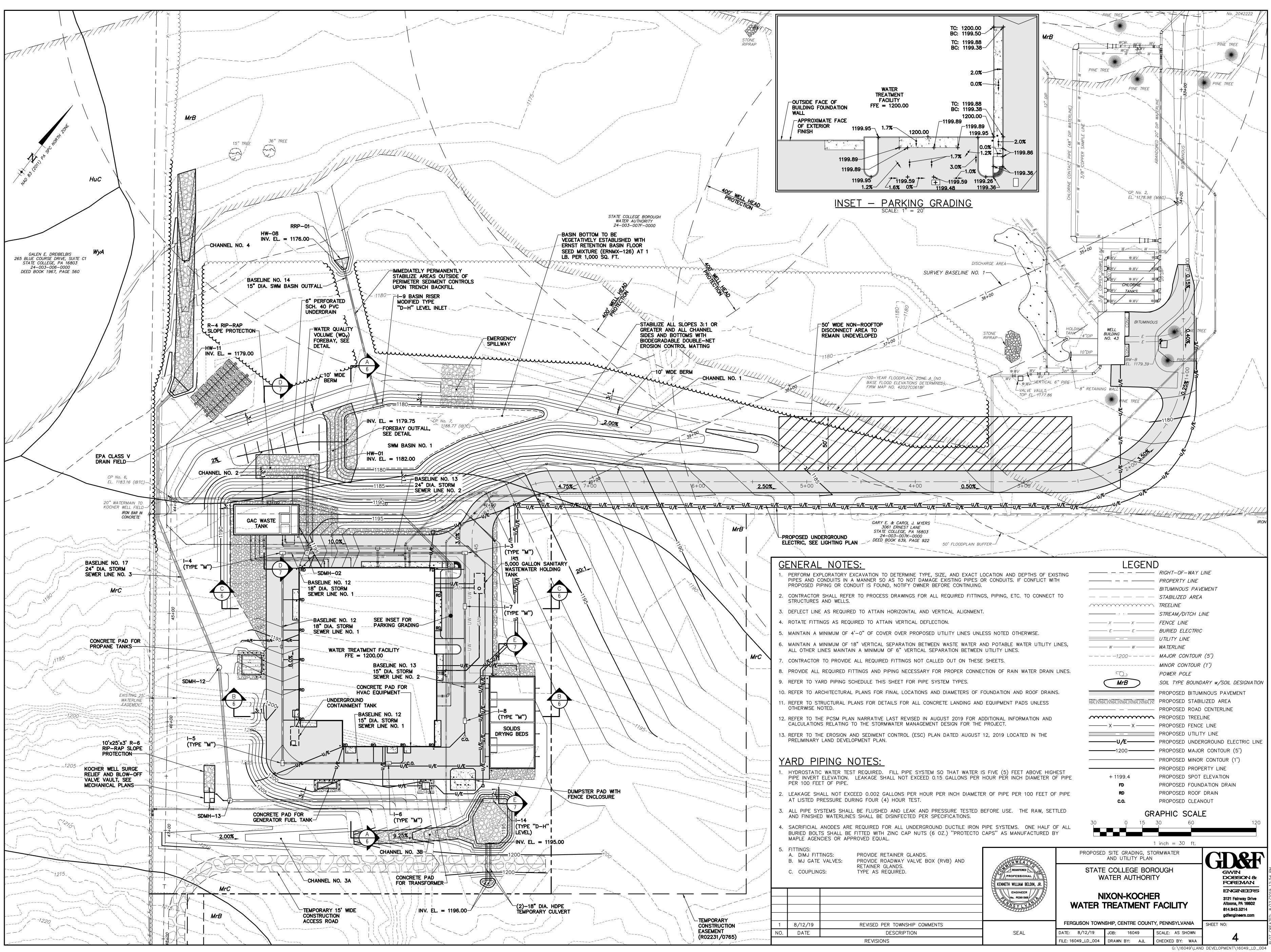
ENCLOSURE, SEE DETAIL

46+00

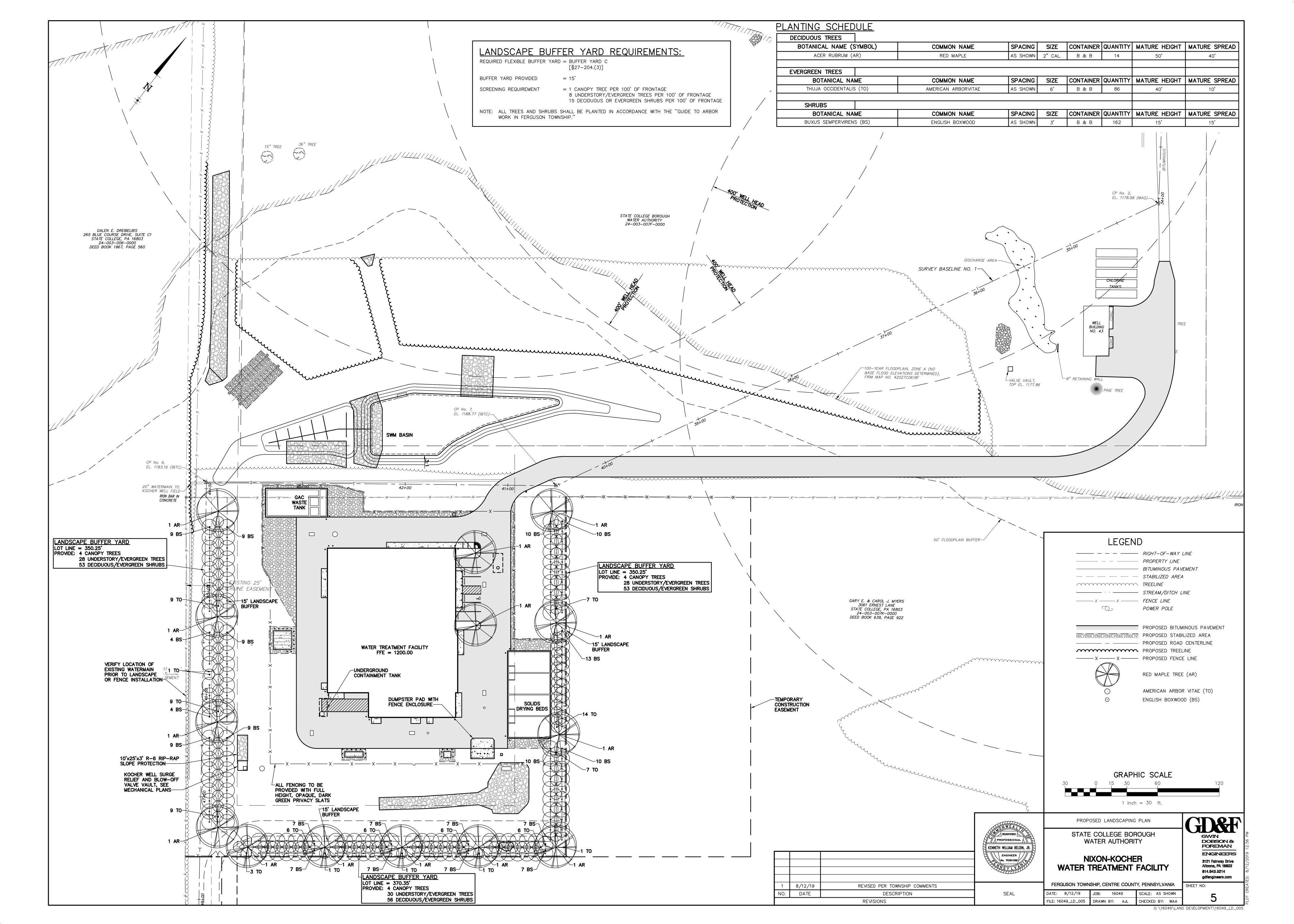
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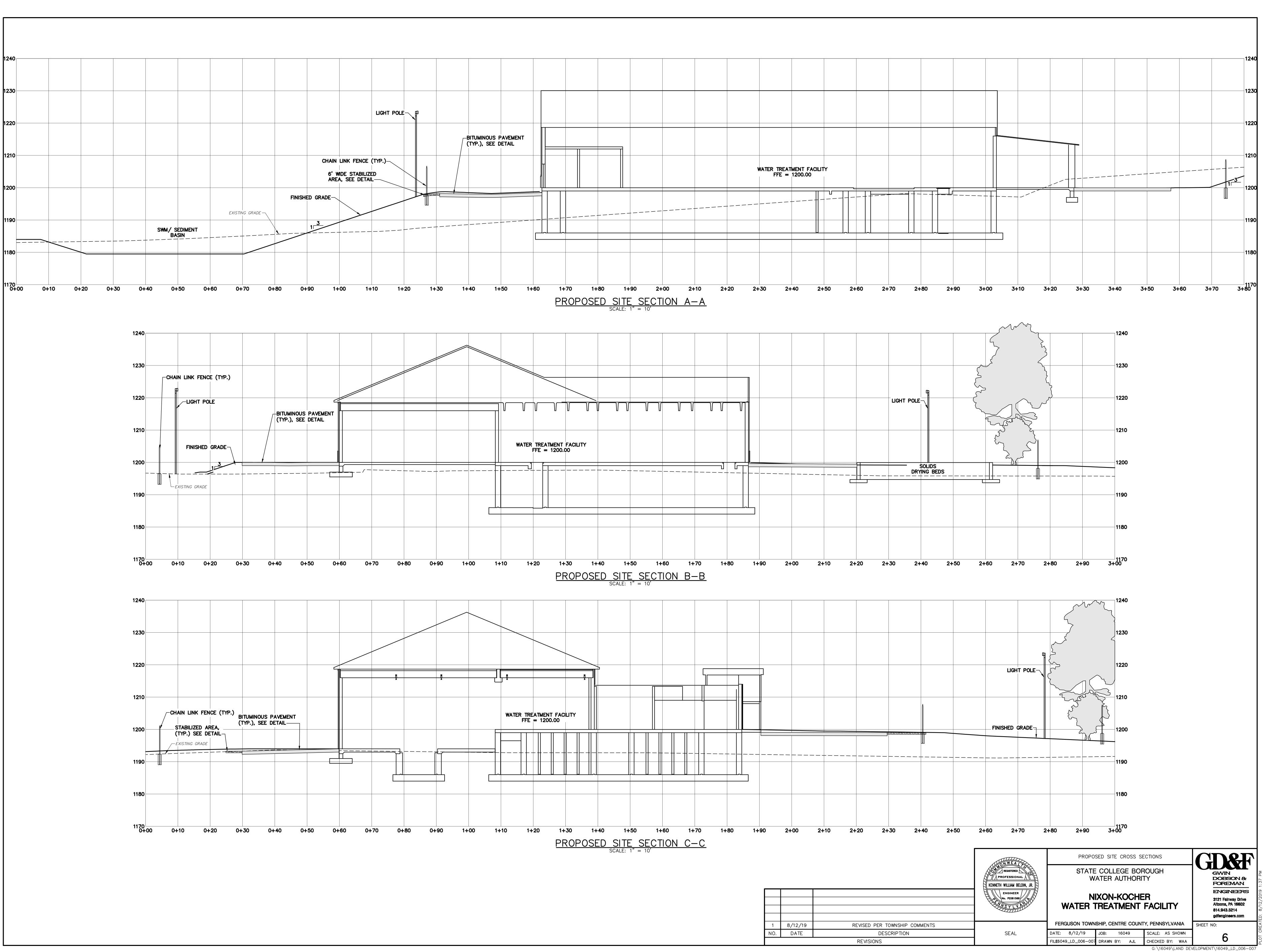
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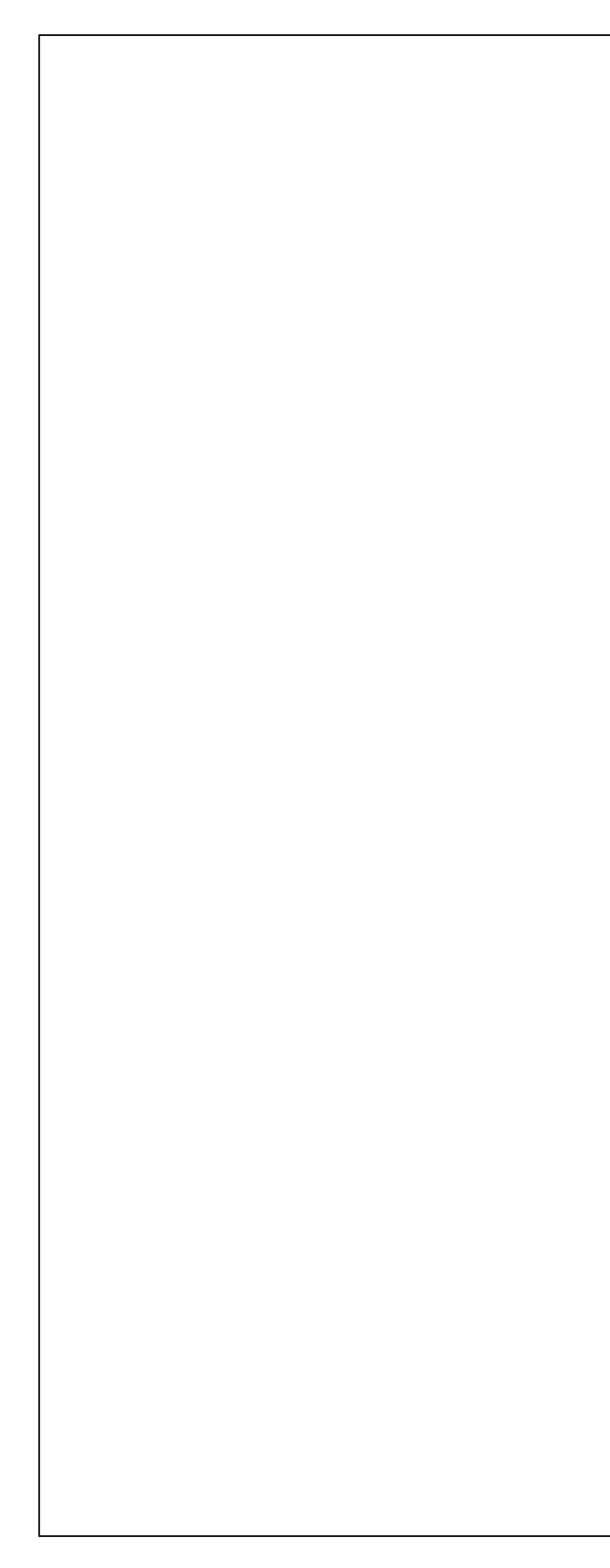
SEAL	DATE:	8/12/19
	FILE: 160	49_LD_(

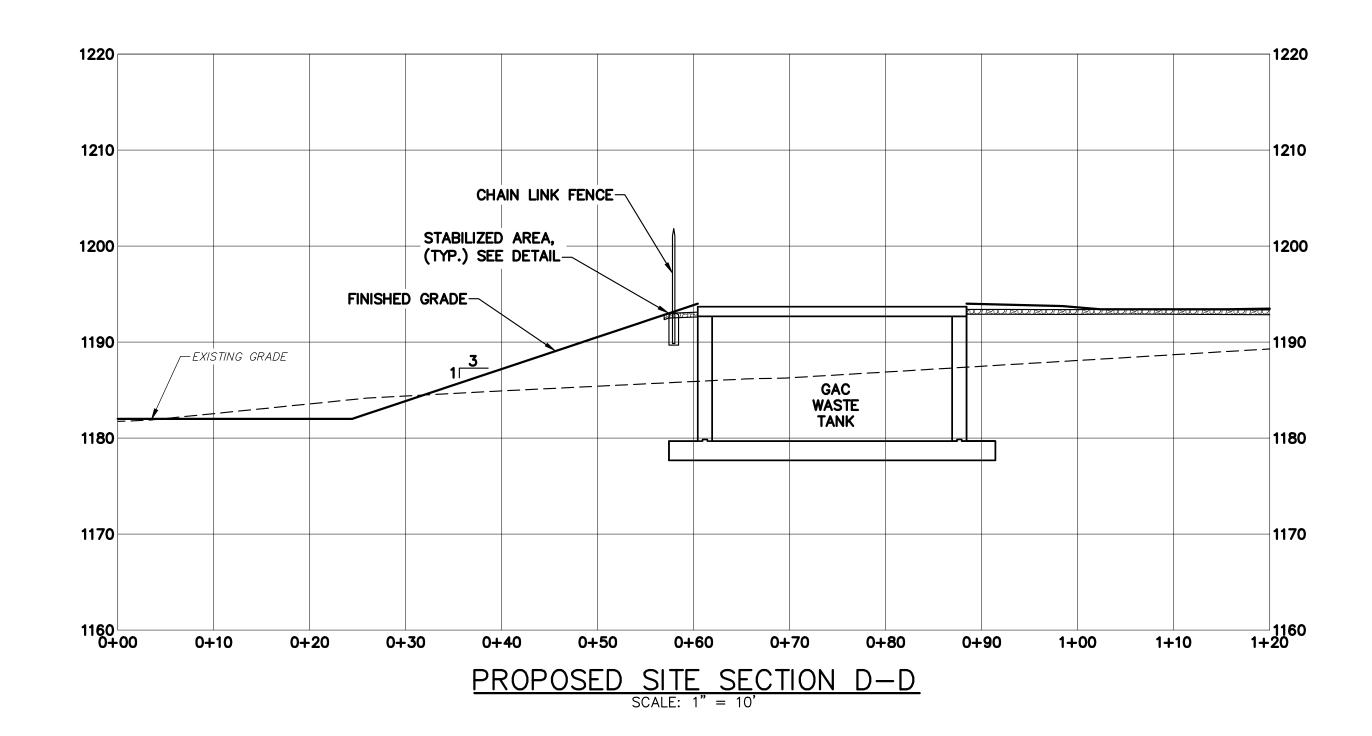


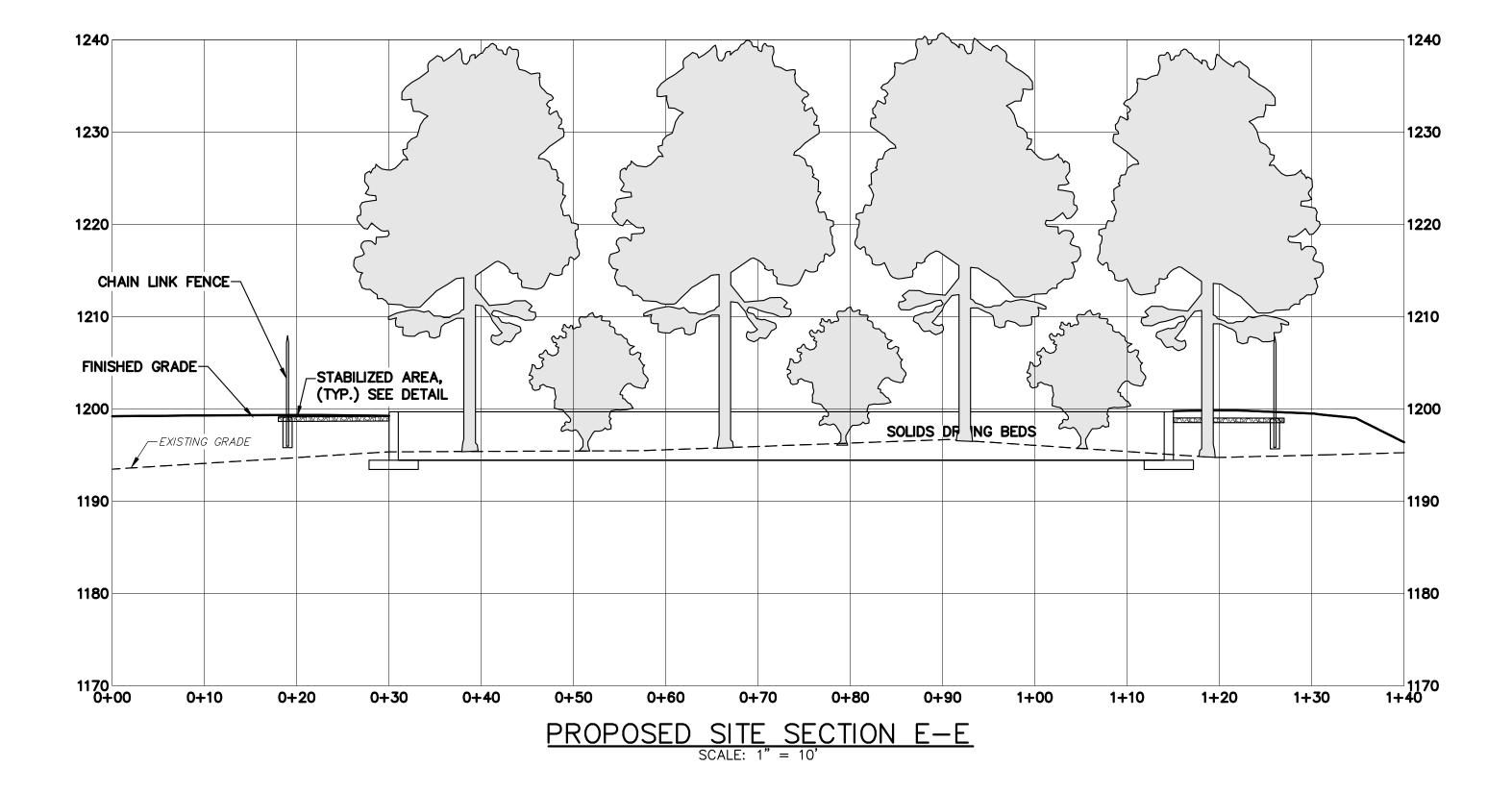


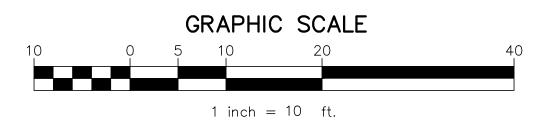
	LINWEA)	PROPOSED SITE CROSS SECTION
	REGISTERED PROFESSIONAL KENNETH WILLIAM BELDIN, JR.	STATE COLLEGE BOROUG WATER AUTHORITY
	ENGINEER No. PEO81568	NIXON-KOCHER WATER TREATMENT FAC
NTS		FERGUSON TOWNSHIP, CENTRE COUNTY, PENI
	SEAL	DATE: 8/12/19 JOB: 16049 SCALE

1	8/12/19	REVISED PER TOWNSHIP COMMENTS
NO.	DATE	DESCRIPTION
		REVISIONS

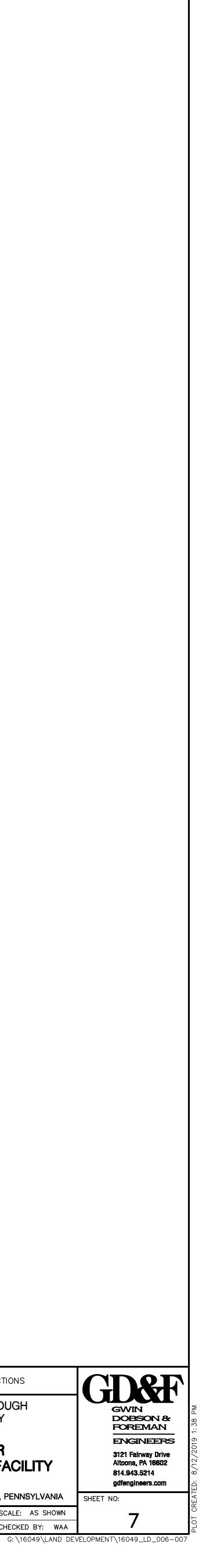


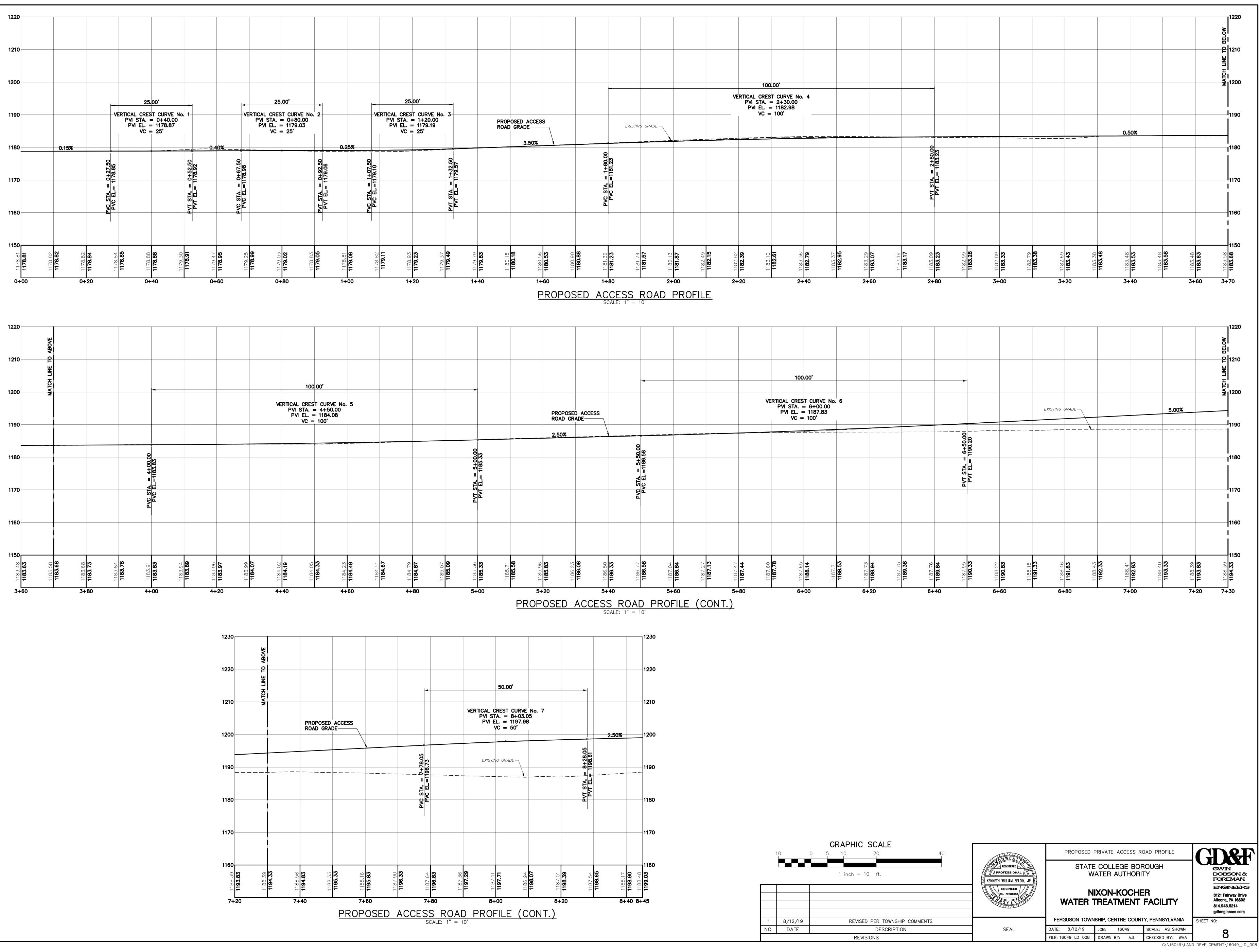


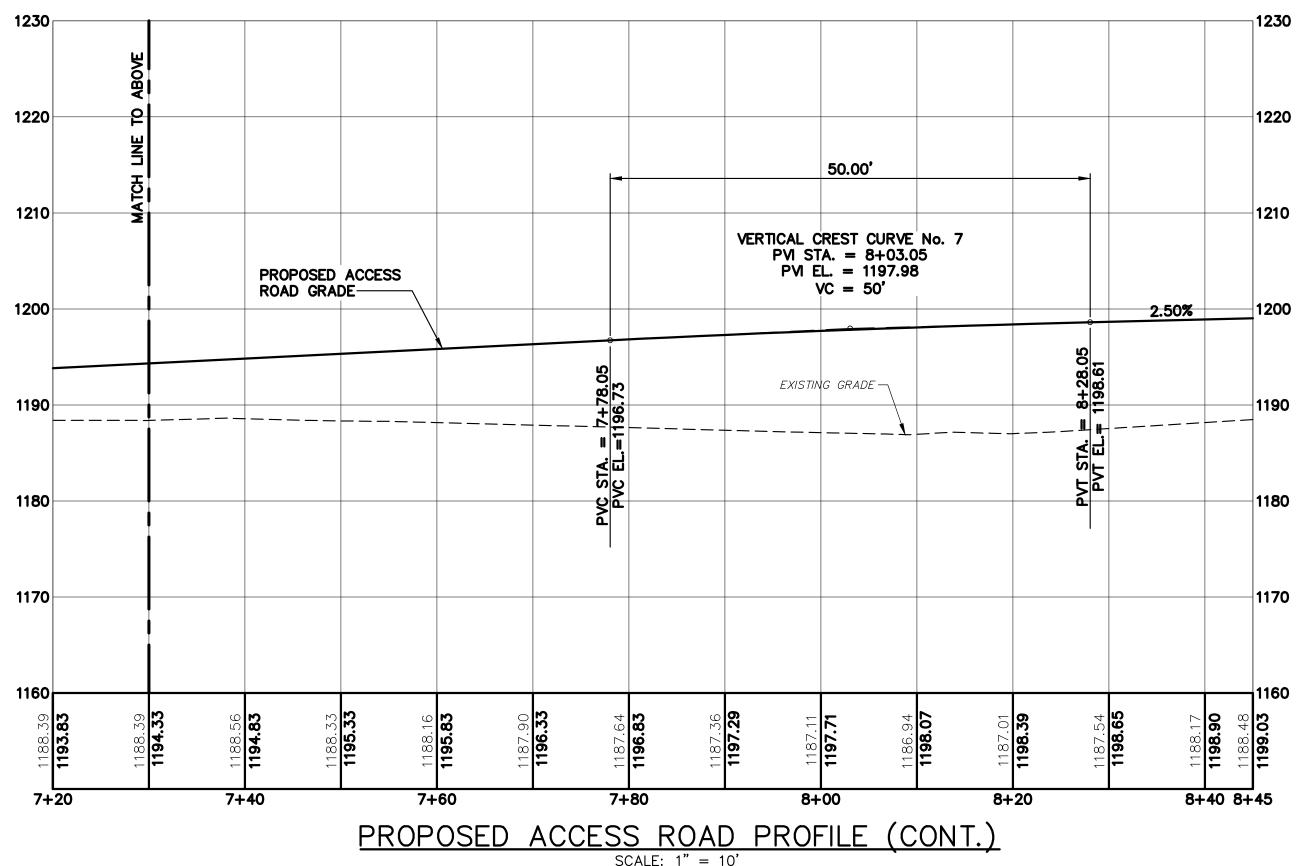




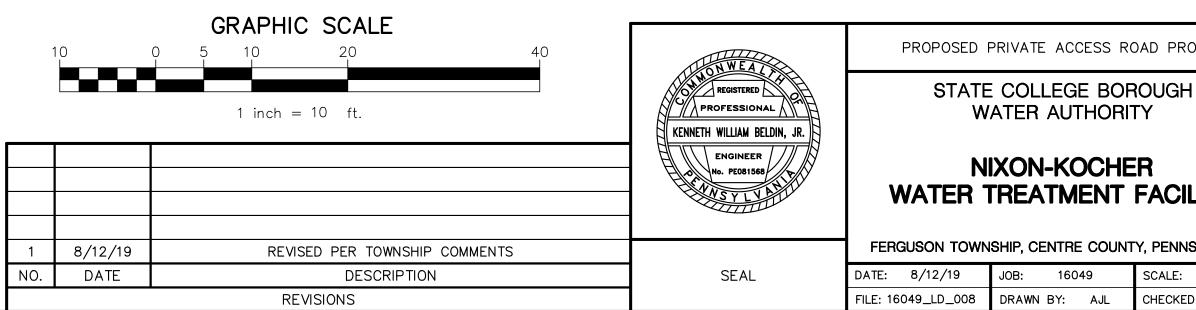
				REGISTERED PROFESSIONAL KENNETH WILLIAM BELDIN, JR. ENGINEER No. PEOB1568	STATE W	SED SITE CROSS SE COLLEGE BOF ATER AUTHORI IXON-KOCHE IREATMENT	Rough Ty R
	1	8/12/19	REVISED PER TOWNSHIP COMMENTS		FERGUSON TOWN	SHIP, CENTRE COUNT	Y, PENN
ļ	NO.	DATE	DESCRIPTION	SEAL	DATE: 8/12/19	JOB: 16049	SCALE:
			REVISIONS		FIL <b>E</b> 6049_LD_006-007	DRAWN BY: AJL	CHECKEI

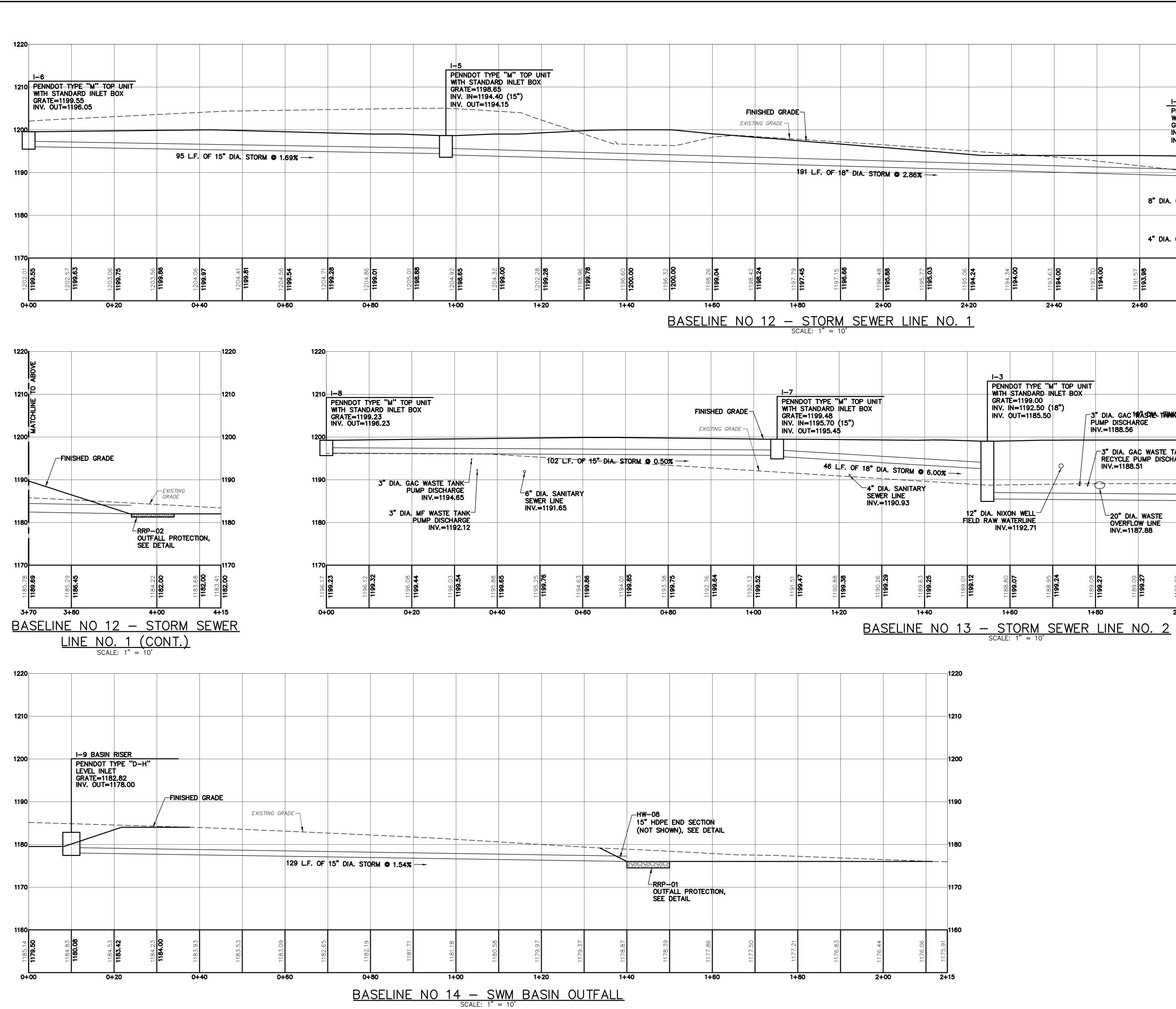






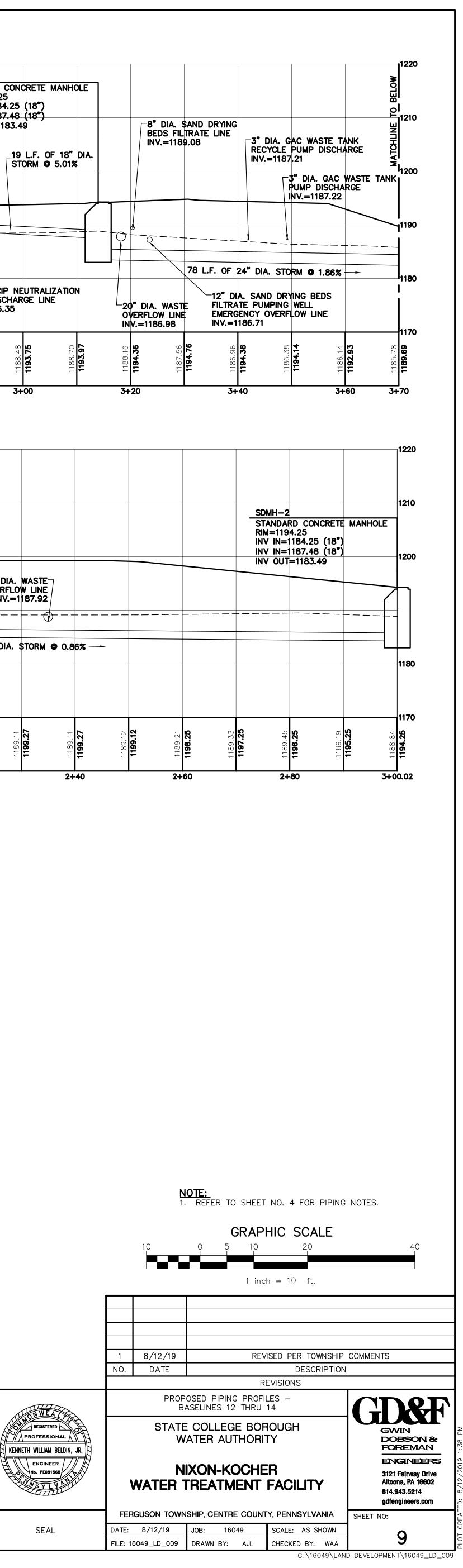
														100.00'												
		25.0											VERTIC P\ F	AL CREST CURV 1 STA. = 2+30 VI EL. = 1182. VC = 100'	/E No. 4 ).00 98											
	P	VI STA. = PVI EL. = VC =	CURVE No. 1+20.00 1179.19 25'	. 3		PROPOSED A ROAD GRADE				EXISTING GRADE	_														0.50%	
			20			3.5	50%																		0.50%	
.25%									00										2+80.00 1183.23							
	VC STA. = 1+07.50 PVC EL.=1179.10			1+32.50 1179.57					= 1+80.00										= 7+ 118							
									C EL.=										A STA. PVT EL							
	C STA PVC E			VT STA. PVT EL					PVC S										d Z d							
	<u> </u>			ē																						
1179.08	<sup>79.11</sup>	8.93	<b>9.23</b>	1179.49	1179.79 <b>1179.83</b>	1180.18 <b>1180.18</b>	1180.56 <b>1180.53</b>	30.88	1181.32 <b>1181.23</b>	1181.74 <b>1181.57</b>	1182.13 <b>1181.87</b>	32.49	32.15 <sup>32.82</sup> 2.39	33.10 <b>82.61</b>	33.36 <b>32.79</b>	33.37 <b>32.95</b>	1183.29 <b>1183.07</b>	1183.19 <b>1183.17</b>	1183.09 <b>1183.23</b>	1182.99 <b>1183.28</b>	1182.89 <b>1183.33</b>	32.79 <b>33.38</b>	32.69 <b>3.43</b>	33.48	33.48 3.53	1183.48 <b>1183.58</b>
117	11/11	117	<b>1179</b>	117	<b>11</b> <b>117</b>	<b>118</b>	<b>118</b>	118( <b>118</b>	118	<b>11</b>	<b>11</b>	118	1182 1182 <b>1182</b>	118 <b>11</b>	<b>118</b> <b>118</b>	118 <b>11</b> 8	<b>11</b>	118 118	<b>118</b>	118 <b>11</b> 8	<b>118</b>	1182 <b>1183</b>	1182. <b>1183.</b>	118. <b>118</b> .	1183. <b>1183.</b>	118 <b>11</b> 8
+00		1+2	20		1+40		1+60		1+80		2+00		2+20		2+40		2+60		2+80		3+00		3+20		3+40	
							PRO	POSED	ACCE	SS ROA	D PRC	) FILE	Ξ													

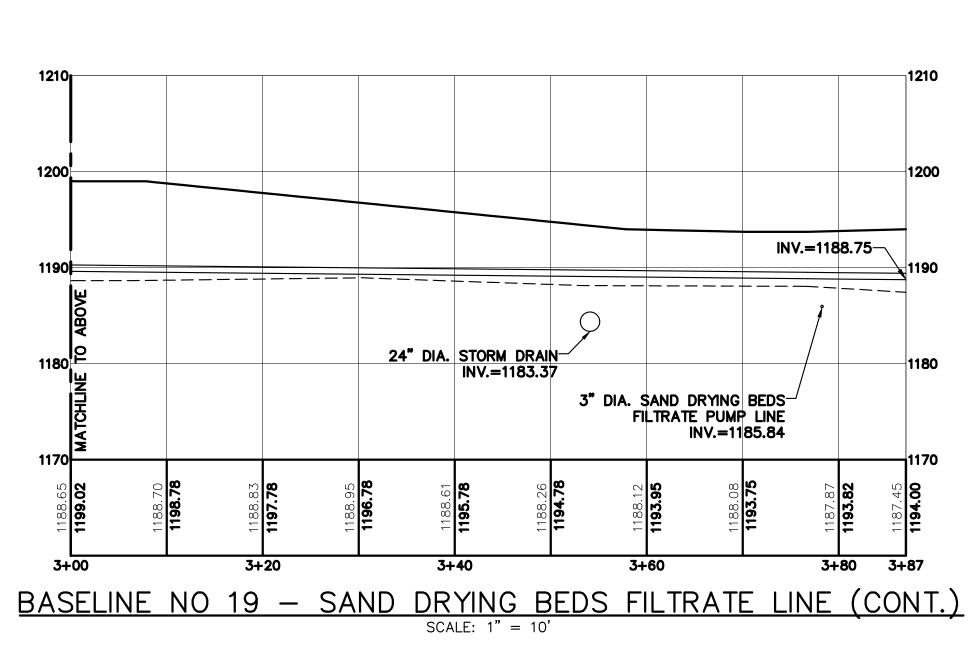




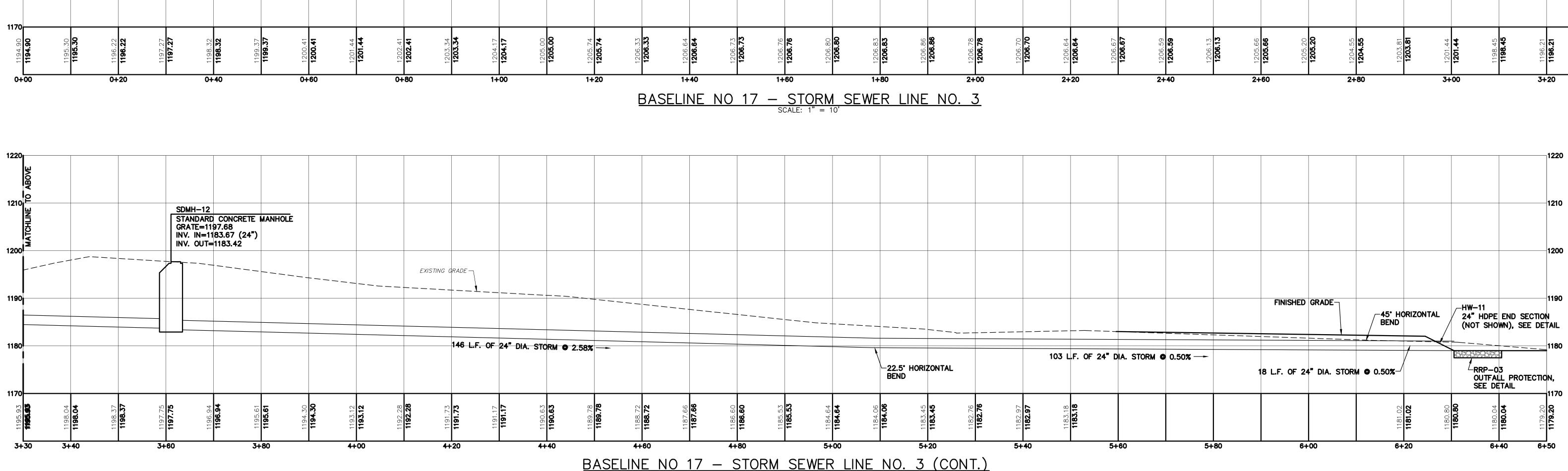
INV OUT=1188.62         P           INV INT         P           INV INT         P           INV.=1186.66         P           PUMP DISCHARGE LINE INV.=1186.35         P           INV.=1186.35         OVERFLOW LINE INV.=1186.35           INV.=1186.35         OVERFLOW LINE INV.=1186.71           INV.=1186.35         P           INV.=1186.35         OVERFLOW LINE INV.=1186.71           INV.=1186.35         P           INV.=11		2	<b>+40</b>			2+6	bU D		2-	FOU			3	+00	1		3+:	20	3+	40	
STÁNDARD CONCRETE MANHOLE RIM=1194.25 INV IN=1182.45 (18") INV IN=1182.48 (18") INV OUT=1183.49 INV OUT=1183.49 INV OUT=1183.49 INV OUT=1183.49 INV OUT=1183.62 INV IN=1188.62 (18") INV OUT=1188.62 INV IN=1188.62 INV IN=1186.66 INV IN=1186.66 INV IN=1186.35 INV IN INV IN=1186.35 INV IN=1186.35 INV INV	1194.34			1192,70	1194.00			1190.45			1188.53	1193.62				1193.97					1194.14
STANDARD CONCRETE MANHOLE RIM=1194.25 INV IN=1184.25 (18") INV IN=1185.49 INV OUT=1183.49 IINV OUT=1183.49 IINV OUT=1183.62 IINV OUT=1183.62 IINV OUT=1188.62 IINV OU							4" [	DIA. G/	AC DRAIN LIN	IE		JMP	DISCHA			1	OV	<b>ERFLOW LIN</b>	re filtra E emerg	TE PUMPING ENCY OVERI	YING ; WEL FLOW
Image: Standard concrete manhole       STANDARD CONCRETE MANHOLE         RIM=1194.25       INV IN=1184.25         INV IN=1184.25       INV IN=1187.48         INV IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       Inv IN=1188.62         Inv IN=1188.62       Inv IN=1188.62         Inv IN=1188.62       Inv IN=1188.62         Inv IN=1188.62       Inv In=1188.62         Inv In=1188.62       Inv In=1188.62							8" [	DIA. G/	OUTLET LIN	E									78 L.F. OF :	24" DIA. ST	
Image: Standard concrete manhole       STANDARD CONCRETE MANHOLE         RIM=1194.25       INV IN=1184.25         INV IN=1184.25       INV IN=1187.48         INV IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       INV OUT=1183.49         Inv IN=1187.48       Inv IN=1188.62         Inv IN=1188.62       Inv IN=1188.62         Inv IN=1188.62       Inv IN=1188.62         Inv IN=1188.62       Inv In=1188.62         Inv In=1188.62       Inv In=1188.62																					
Image: Standard concrete manhole RIM=1194.25 INV IN=1184.25 (18")         Inv IN=1184.25 (18")         Inv IN=1187.48 (18")         Inv IN=1187.48 (18")         Inv IN=1183.49         Image:											,						-				-3" D PUM INV.=
STANDARD CONCRETE MANHOLE       RIM=1194.25         RIM=1194.25       INV IN=1184.25 (18")         INV IN=1187.48 (18")       INV OUT=1183.49								PEN WIT GR/	NDOT TYPE H STANDARD ATE=1193.62		et box	Г	_1! S	9 L. Tori	F. OF 18" M <b>O</b> 5.01%	DIA.				RECYCLE INV.=118	PUN 7.21
SDMH-2											RIM INV INV	=119 IN= IN=	94.25 :1184.25 :1187.48	5 (18 3 (18	8")	DLE		8" DIA.	SAND DRYING		
											SDN	4H-2	2								

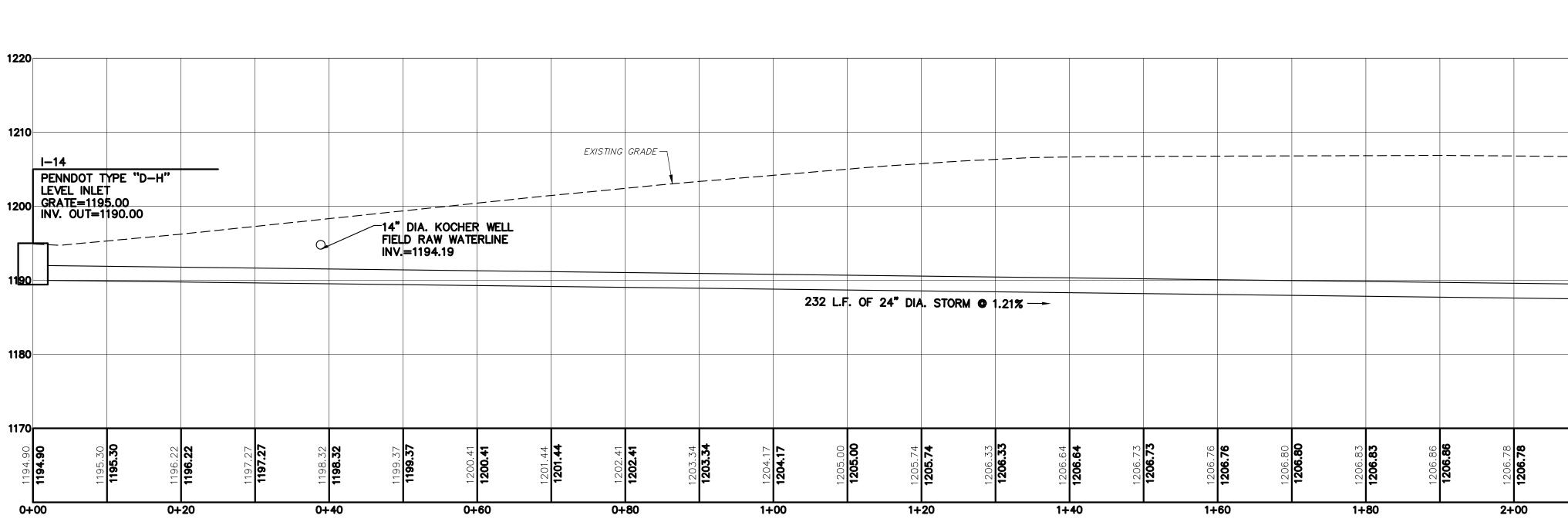
INV.	=1192.71		INV.=118		OVER	DIA. WASTE FLOW LINE 1187.84					
W W/	ON WELL	• •	20" DIA OVERFLO	WASTE		141 L.F.	of 18" dia.	⊕ STORM @ 0.8	6% —		
		2	-3" DIA. GA RECYCLE F INV.=1188.	C WASTE TAI UMP DISCHAI 51	NK RGE (	>	20" DIA. OVERFLO INV.=1	0W LINE 1187.92			
<del>WITH</del> GRA1 INV.	NDOT TYPE "N STANDARD II IE=1199.00 IN=1192.50 ( OUT=1185.50	NLET BOX 18")	- 3" DIA. GAC <sup>1</sup> PUMP DISCHA INV.=1188.56	<b>VÄSTILA. TÆINIKS</b> I RGE	H WATERLINE INV.=1193.63						SDMH-2 STANDA RIM=119 INV IN= INV IN= INV OUT

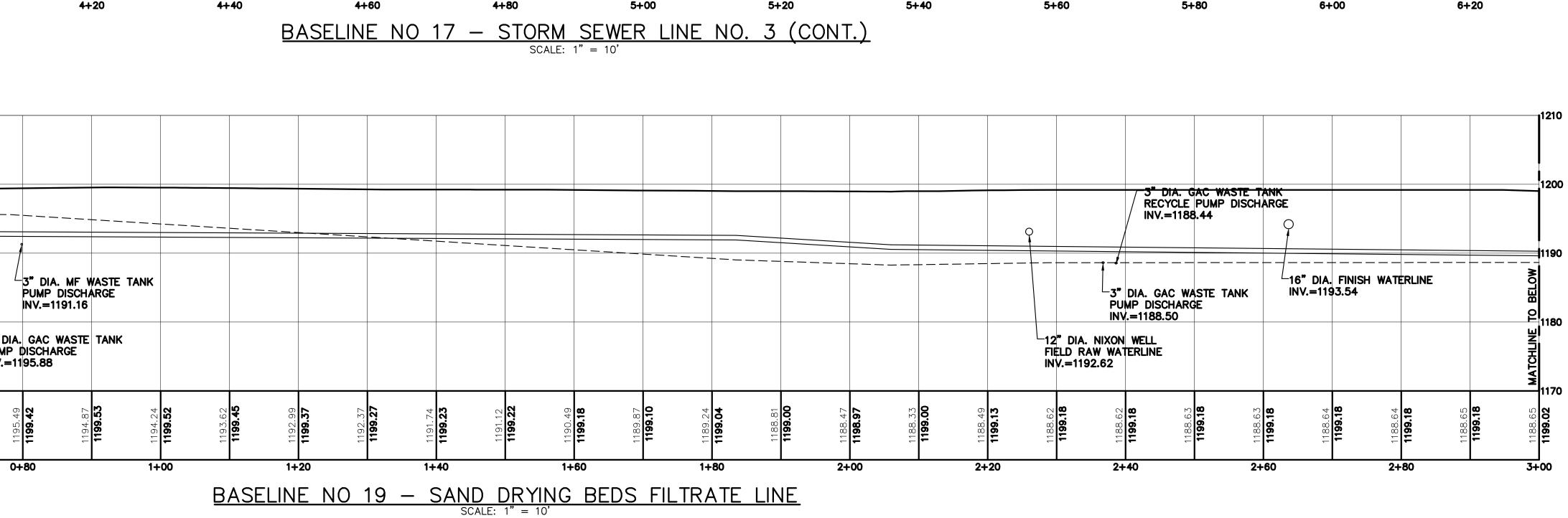




0+	00	0+	-20	0+	-40	0+	·60		0+8
1195.55					<b>1199.17</b> 1195.73	<b>1199.16</b> 1195.69			1195.49
1100								-3" DI PUMF INV.=	A. 'DI 119
1180									/_3 P
1190		.83							1
1200									
1200-									
1210									

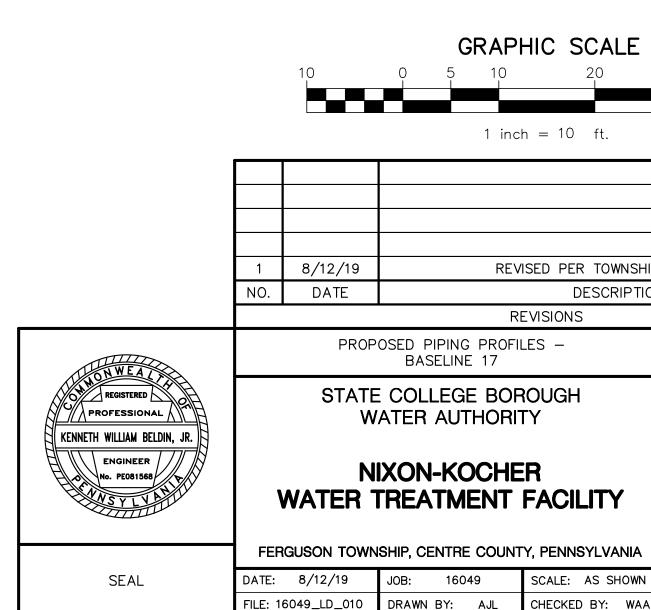


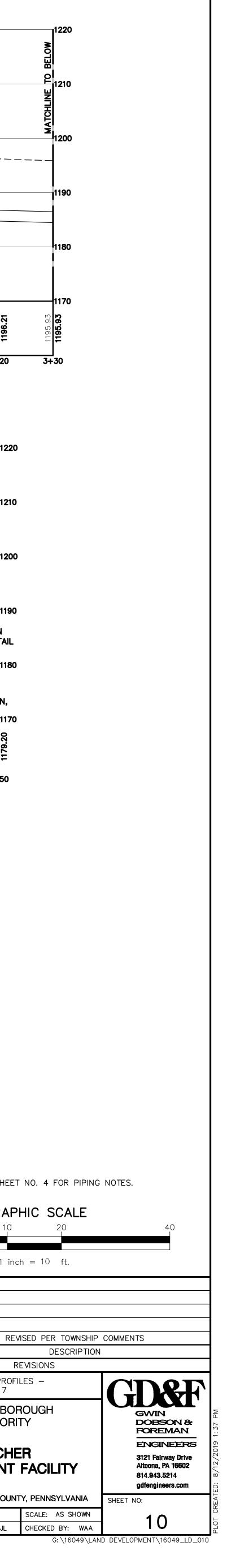




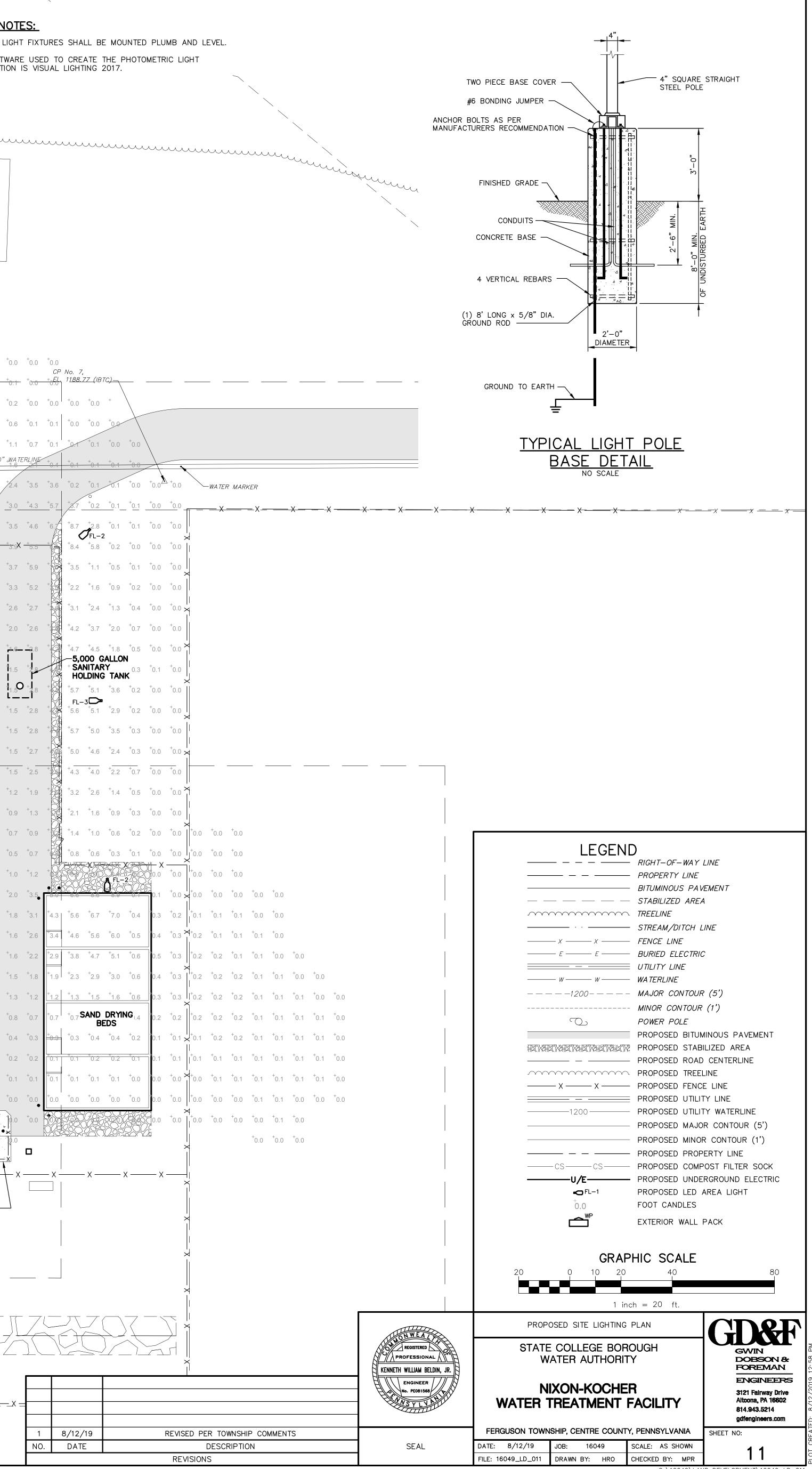
		2+20	<b>I</b>	2+40			2+60	I	2+80	<u>כ</u>	3-	⊢00	3	i+20	3+3
1206 70	1206.70	1206.64 1206.64	1206.67 <b>1206.67</b>	1206.59 <b>1206.59</b>	1206.13	1206.13	1205.66 1205.66	1205.20 <b>1205.20</b>	1204.55 1 <b>204.55</b>	1203.81	<b>1203.81</b> 1201.44	<b>1201.44</b> 1108 45	1198.45	1196.21 1196.21	1195.93
													<u> </u>		
															P1 P
										119 L.F	. of 24" di	A. STORM <b>Q</b>	2.61%		
															ľ
														+	
											· · · ·				× ×
	+	+					·								MATCHLINE
				GRA INV. INV.	TE=1206.8 IN=1187.1 IN=1198.0 OUT=1186	NCRETE M 8 3 (24") 00 (4") 5.88									E TO BELOW
					H-13 NDARD CO	NCRETE M									Ň

NOTE: 1. REFER TO SHEET NO. 4 FOR PIPING NOTES.

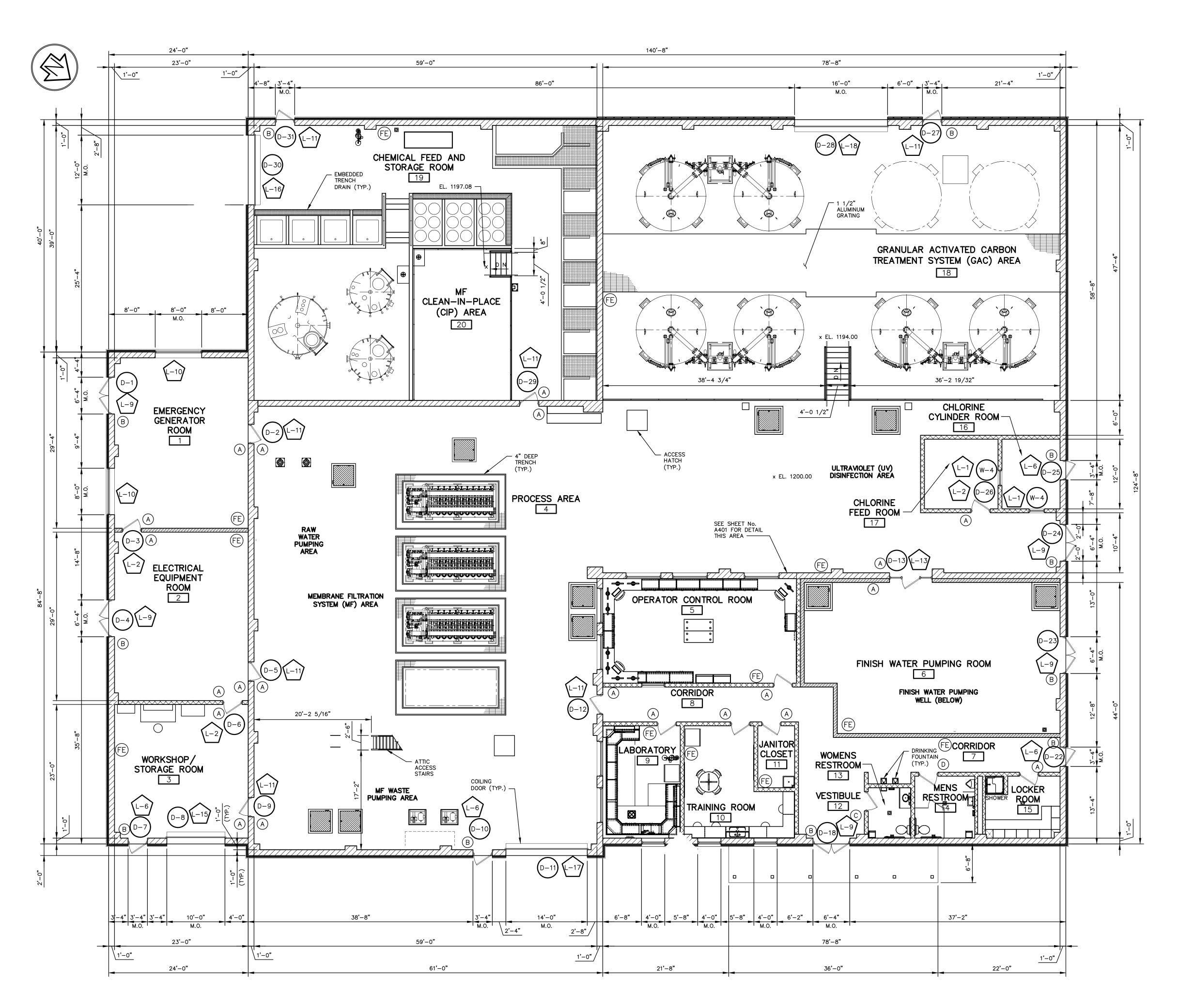




STYLE	MANUFACTURER/MODEL	LED LUMENS/KELVIN TEMP/	DRIVER	MOUNTING		<u>GEI</u> 1.
	SPECTRUM LIGHTING, INC./ED2015LW 20L	WATTS/COLOR RENDERING			DESCRIPTION	2.
MP WP	40K EX MJ2 PA MW1 MB OR APPROVED EQUAL	2000LM/4000K/15.8W	120/277 VAC	WALL MOUNT	EXTERIOR LED FIXTURE, LISTED FOR OUTDOOR WET LOCATIONS, WALL MOUNTED, MATTE BLACK FINISH	
FL-1	LITHONIA/DSX1 LED P7 40K TFTM MVOLT SPA DDBXD DLL127F1.5JU OR APPROVED EQUAL	20,734LM/4000K/183W	277 VOLT	POLE	LED CUTOFF AREA LUMINAIRE WITH PHOTOCELL MOUNTED ON SQUARE POLE. DARK BRONZE FINISH. FORWARD THROW, MEDIUM DISTRIBUTION.	
FL-2	LITHONIA/DSX1 LED P7 40K LCCO MVOLT SPA DDBXD DLL127F1.5JU OR APPROVED EQUAL	12,649LM/4000K/183W	277 VOLT	POLE	LED CUTOFF AREA LUMINAIRE WITH PHOTOCELL MOUNTED ON SQUARE POLE. DARK BRONZE FINISH. LEFT CORNER CUTOFF DISTRIBUTION.	
FL-3	LITHONIA/DSX1 LED P7 40K BLC MVOLT SPA DDBXD DLL127F1.5JU OR APPROVED EQUAL	16,999LM/4000K/183W	277 VOLT	POLE	LED CUTOFF AREA LUMINAIRE WITH PHOTOCELL MOUNTED ON SQUARE POLE. DARK BRONZE FINISH. BACKLIGHT CONTROL DISTRIBUTION.	
OLE "P1"	LITHONIA/SSS204GPTDDB OR APPROVED EQUAL	-	_		SQUARE STRAIGHT STEEL POLE, 20' NOMINAL HEIGHT, 4" SHAFT SIZE, 0.188" WALL THICKNESS. PROVIDE ANCHORS, BASE COVER, HANDHOLE COVER AND ANCHOR BOLTS.	
					+0.0 +0.0 +0.0 +0.0 +0.0 +0.0 •0.0 •0.0	
					.0 <sup>+</sup> 0.0 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.0 <sup>+</sup> 0.0 <sup>+</sup> 0.0 <sup>+</sup> 0.0 .0 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.0 <sup>+</sup> 0.0 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.0 <sup>+</sup> 0.0 <sup>+</sup> 0.0	
			*		.1 <sup>+</sup> 0.1 <sup>+</sup> 0.1 <sup>+</sup> 0.2 <sup>+</sup> 0.2 <sup>+</sup> 0.1 <sup>+</sup> 0.0	
			$\times$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
				+0.1 $+0.1$ $+0.2$	.3 <sup>+</sup> 0.5 <sup>+</sup> 0.6 <sup>+</sup> 0.7 <sup>+</sup> 0.8 <sup>+</sup> 1.0 <sup>+</sup> 1.2 <sup>+</sup> 0.9 <sup>+</sup> 0.3 <sup>+</sup> 0.4 <sup>+</sup> 0.4 <sup>+</sup> 0.5 <sup>+</sup> 0.5 <sup>+</sup> 0.3 <sup>+</sup> 0.2 <sup>+</sup> 0.1	+0.1 +0.2 +(
		CP No. 6, EL. 1183.16 (IBTC)			.5  0.7  0.9  1.2  1.4  1.4  1.5  1.6  0.8  0.6  0.7  0.7  0.4  0.2  0.1	+0.3 +0.5 +0
		20" WATERMAIN TO KOCHER WELL FIELD			$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
/		IRON BAR IN CONCRETE			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	*1.1 *1.4 *
				+0.1 +0.1 +0.1 +0.2 +0.3		+0.5 +0.8 +
				+0.0 +0.1 +0.1 +0.2 +0.1 +0.2 +0.1 +0.1 +0.1 +0.1 +0.1 +0.1 +0.1 +0.1		+0.3 +0.5 +. +0.2 +0.4 +0.4
			+0.0	+0.0 +0.0 +0.1 +0.1 +		°+0.17 . 0.3 v
						+0.1 +0.2 +( +0.1 +0.1 +(
						+0.2 +0.3 +(
					$\begin{array}{c} 3 \\ -3 \\ -4 \\ + \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 $	+0.8 +0.8 +( +2 2 +2.2 +.
			1			WP. 27 <sup>+</sup> 2.6 <sup>+</sup> .
						+10 +1.1 +( +0.4 +0.4 +(
			*0.0 *0.1 *0.1 <b>CONCI</b> PROPA	$\begin{array}{c} \textbf{RE IE PAD FOR} \\ \textbf{ANE TANKS} \\ \hline 0.3 \\ \hline 0.7 \\ \hline 1.0 \\ 1.7 \\ 1.0 \\ 1$	$F_{\rm I} = 1$	<sup>+</sup> 0.1 <sup>+</sup> 0.2 <sup>+</sup> (
		, j			FFE = 1200.00	+0.1 +0.1 +0.1 +0.1 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2 +0.2
		$\times$				+1.9 +1.1 +0
					× I I I I I I I I I I I I I I I I I I I	+0.4 +0.5 +C
						+0.3 +0.4 +0
						$+ \frac{+}{9}.4 + 0.6 + 0.6$
		B		1	$.9 + 1.4 + 1.7 + 1.8 + 1.8 + 1.6 + 2.1 + 1.8 + 0.5 + 0.3 + 0.2 + 0.2$ $.1 \times 1.6 + 2.1 + 2.3 + 2.4 + 2.2 + 1.8 + 1.4 + 1.1 + 0.7 + 0.5 + 0.4 + 0.3$	+0.5 +0.6 +0
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<b>WP</b> +9.9 <sup>+</sup> 1.6 <sup>+</sup> C
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	19-
					$ \begin{bmatrix} \mathbf{F} \mathbf{L} - 1 \\ 1.5$	i ``●
					$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
					.7 + 1.0 + 1.0 + 0.7 + 0.8 + 1.2 + 1.5 + 1.3 + 1.0 + 0.8 + 0.6 + 0.4 + 0.3 + 0.2 + 0.1 + 0.1 + 0.1 + 0.0 +	\ <b>PA</b>
		KOCHER WELL SURGE RELIEF AND BLOW-OFF VALVE VAULT			.6       +0.7       +0.7       +p.5       +0.4       GENERATOR FUEL TANK       +0.4       +0.3       +0.2       +0.1       +0.1       +0.1       +0.0       CONCRETE PAD TRANSFORMER         .3       +0.5       +0.4       +0.2       +0.2       +0.1       +0.1       +0.0       +0.0	
			+0.0			
					.1       +0.1       +0.2       +0.1       +0.1       +0.1       +0.1       +0.1       +0.0       +0.0       +0.0         .1       +0.1       +0.1       +0.1       +0.1       +0.1       +0.0       +0.0       +0.0         .1       +0.1       +0.1       +0.0       +0.0       +0.0       +0.0       +0.0         .1       +0.1       +0.1       +0.0       +0.0       +0.0       +0.0	
				XX	x <u> </u>	X
					I	



G: \16049\LAND DEVELOPMENT\16049\_LD\_011



FIRST FLOOR PLAN SCALE: 1/8" = 1'-0"

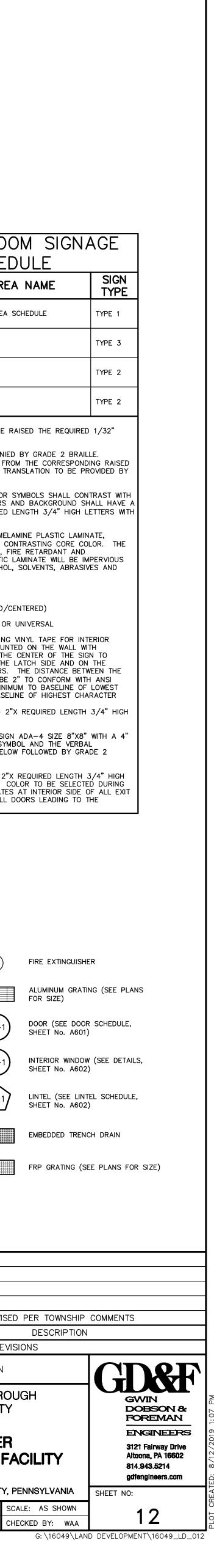
IN	TERIOR ROOM SCHEDUI
I.D.	ROOM/AREA N
A	(ROOM NAME) SEE AREA SCHED
В	EXIT
C	ADA WOMEN'S ROOM
D	ADA MEN'S ROOM
SIGNAGE N 1. TACTILE INCHES FR	I <u>OTES:</u> CHARACTERS SHALL BE RAISED OM SIGN FACE.
BRAILLE S CHARACTE	XT SHALL BE ACCOMPANIED BY ( HALL BE SEPARATED " FROM TH RS. GRADE 2 BRAILLE TRANSLA IANUFACTURER.
THEIR BAC	TTERS, NUMBERS AND/OR SYMBC KGROUND. CHARACTERS AND B. E FINISH. 2"X REQUIRED LENGT BRAILLE.
APPROXIM/ MELAMINE SELF-EXTI	MATERIAL SHALL BE MELAMINE ATELY 1/8" THICK WITH CONTRAS SHALL BE NON-STATIC, FIRE RE NGUISHING. THE PLASTIC LAMIN/ ACIDS, ALKALIES, ALCOHOL, SOLV ATER.
5. CORNER	RS: 1/2" RADIUS.
6. COPY F	OSITION: CC (CENTERED/CENTER
7. LETTER	FONT STYLES: ARIAL OR UNIVE
DIMENSION CONFORM EXTERIOR DOOR FRA A117.1. MC	SHALL BE MOUNTED USING VINYL TE SIGNS SHALL BE MOUNTED ON FROM THE FLOOR TO THE CENT WITH ANSI A117.1 ON THE LATCH OF THE EXTERIOR DOORS. THE ME AND SIGN SHOULD BE 2" TO DUNTING HEIGHT: 48" MINIMUM TO R, 60" MAXIMUM TO BASELINE OF
	ROOM NAME PLATES — 2"X REG /ITH GRADE 2 BRAILLE.
ACCESSIBIL	RESTROOM SIGN — DESIGN ADA LITY SYMBOL, GENDER SYMBOL A DN PLACED DIRECTLY BELOW FOL
SUBMITTAL	ROOM EXIT PLATES – 2"X REQU /ITH GRADE 2 BRAILLE. COLOR . PHASE. PROVIDE PLATES AT IN OM EACH ROOM AND ALL DOORS

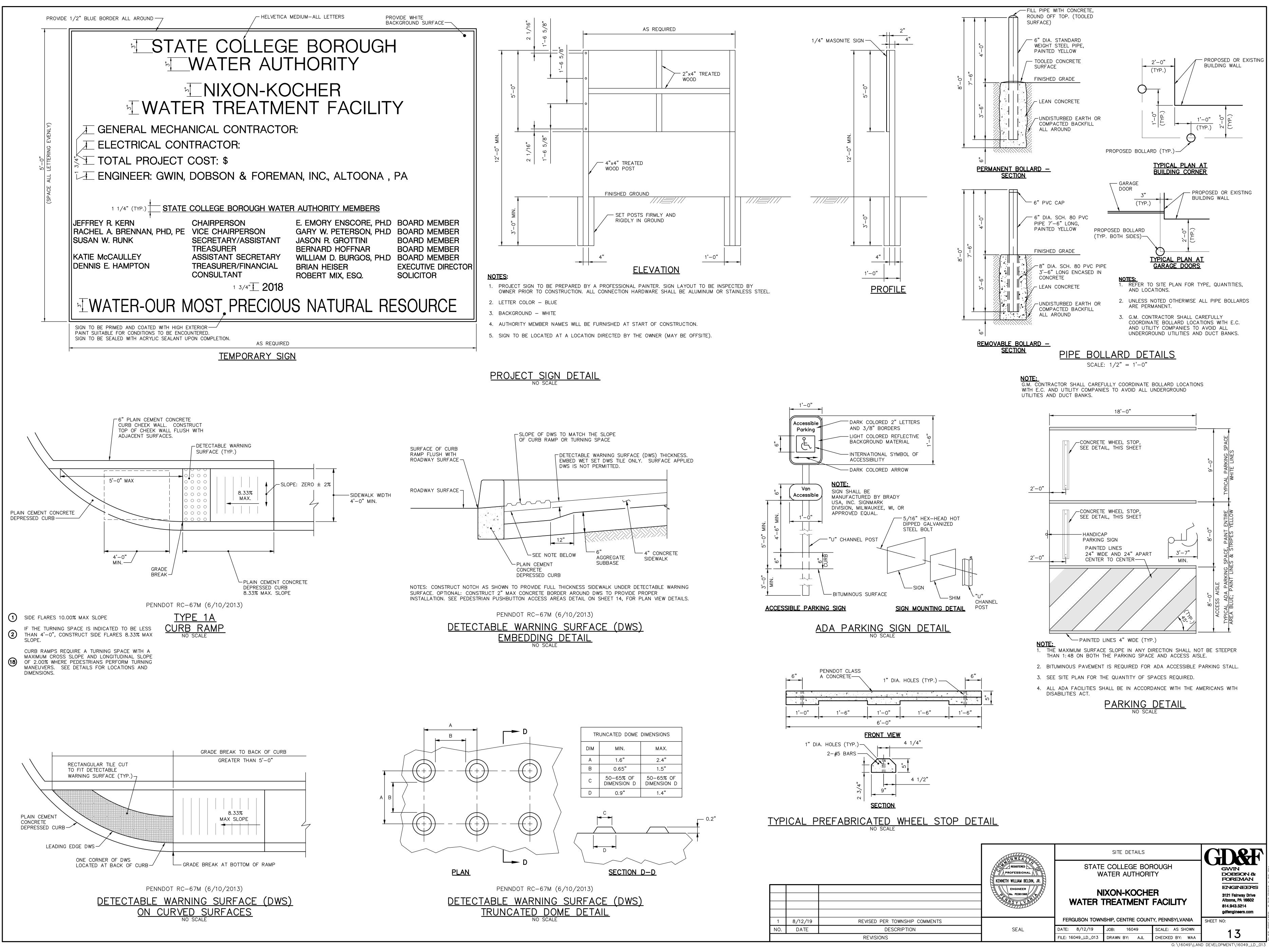
	LEGEND	-	
A.F.F.	ABOVE FINISHED FLOOR	FE	FI
М.О.	MASONRY OPENING		AL
	CAVITY WALL (SEE WALL SECTIONS SHEETS No. A311)		AL FC
	8" STANDARD CMU (UNLESS DIMENSIONED OTHERWISE)	(D-1)	D( S⊦
/////	12" STANDARD CMU	W-1	IN SH
	8" ACOUSTIC CMU	$\overline{)}$	LII
1	ROOM AREA NUMBER		S⊦
FD	FLOOR DRAIN		EN
со 🎯	CLEANOUT		FF

	1	8/12/19		RE	/ISED PER			
	NO.	DATE			DE			
			-	F	EVISIONS			
THE WEA		FIRST FLOOR PLAN						
REGISTERED PROFESSIONAL KENNETH WILLIAM BELDIN, JR.				LEGE BOI AUTHORI				
ENGINEER No. PEO81568	,	N WATER		I-KOCHE				
	FEF	IGUSON TOWN	ISHIP, C	ENTRE COUN	TY, PENNS'			

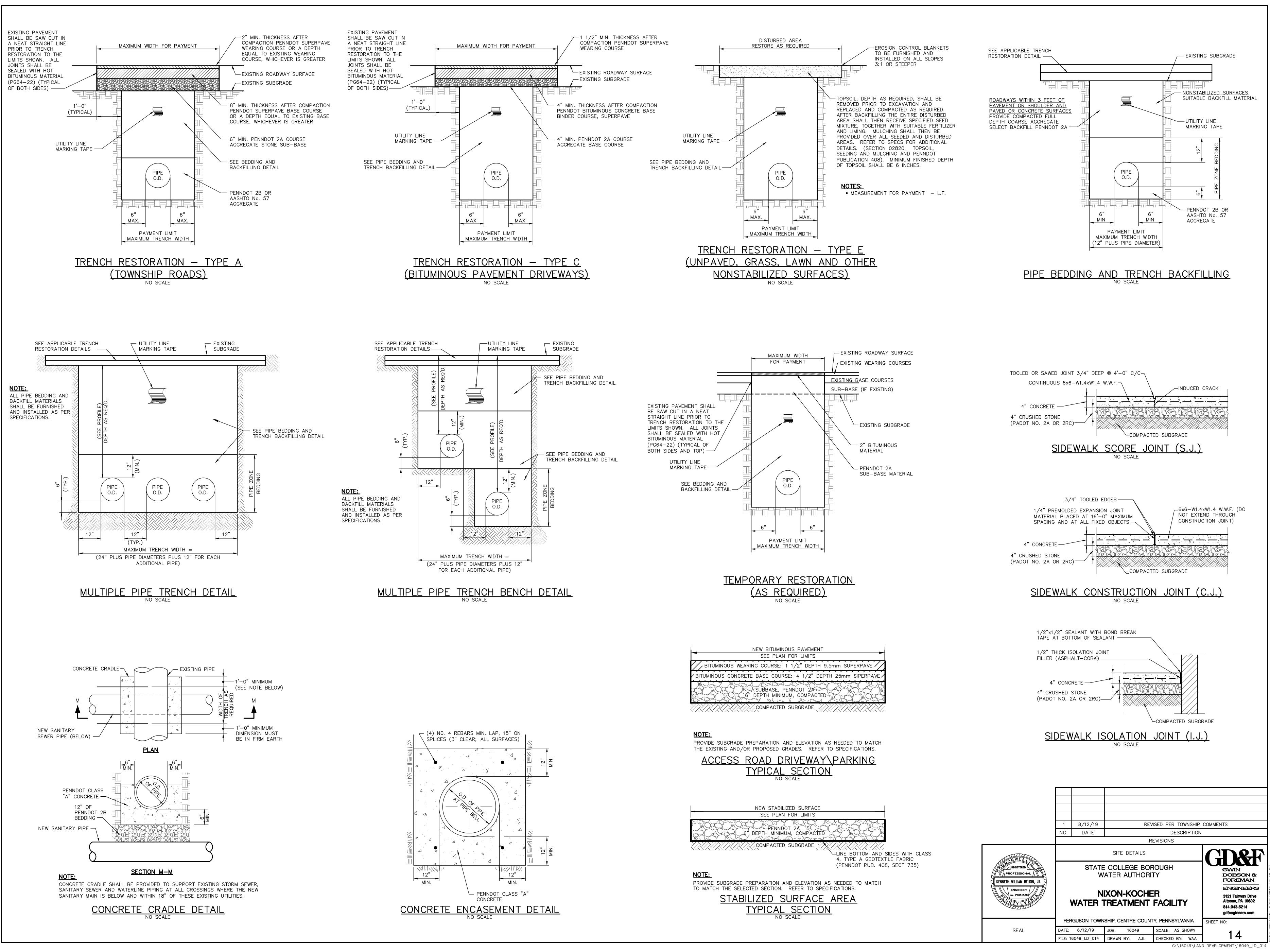
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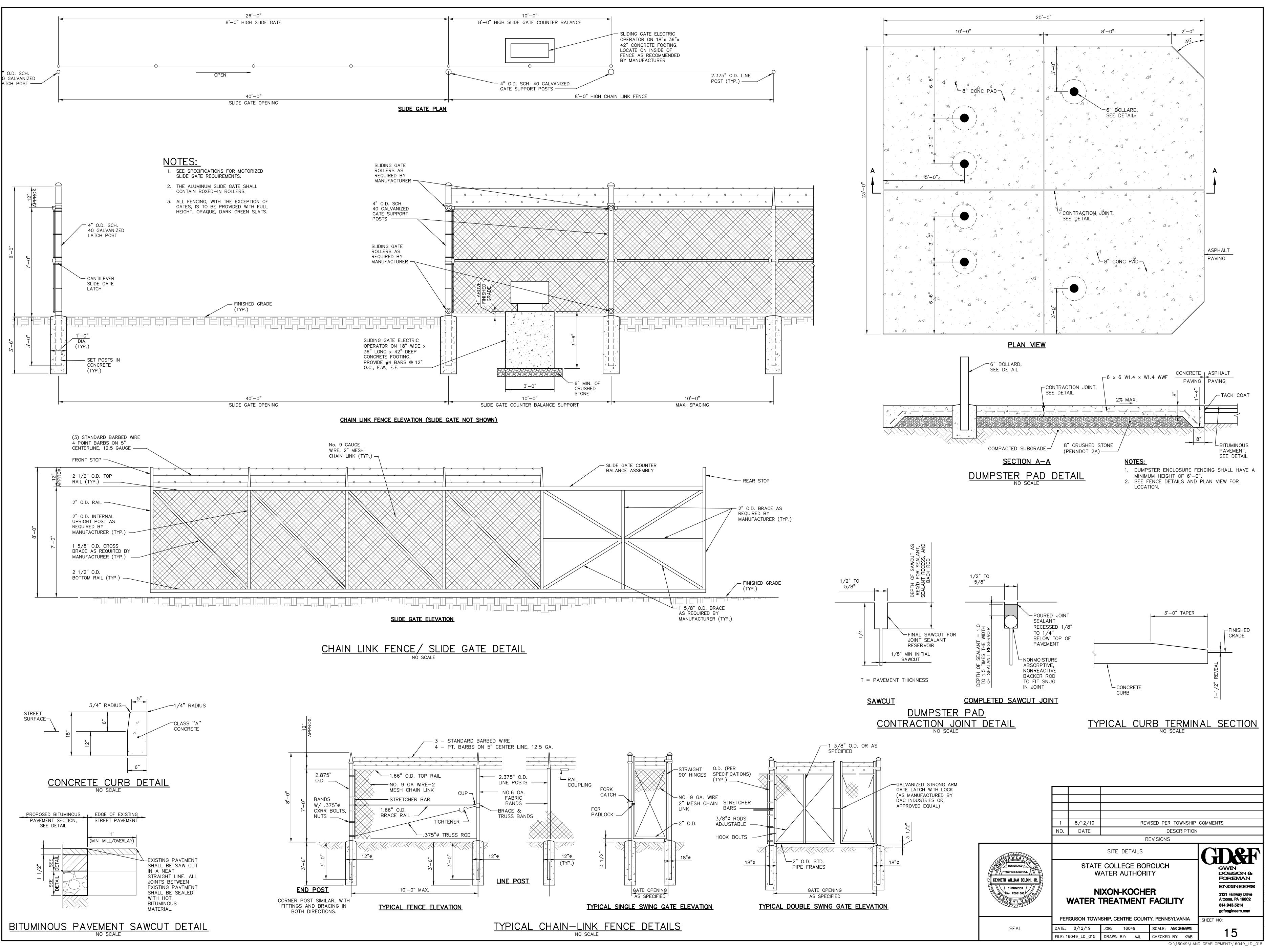
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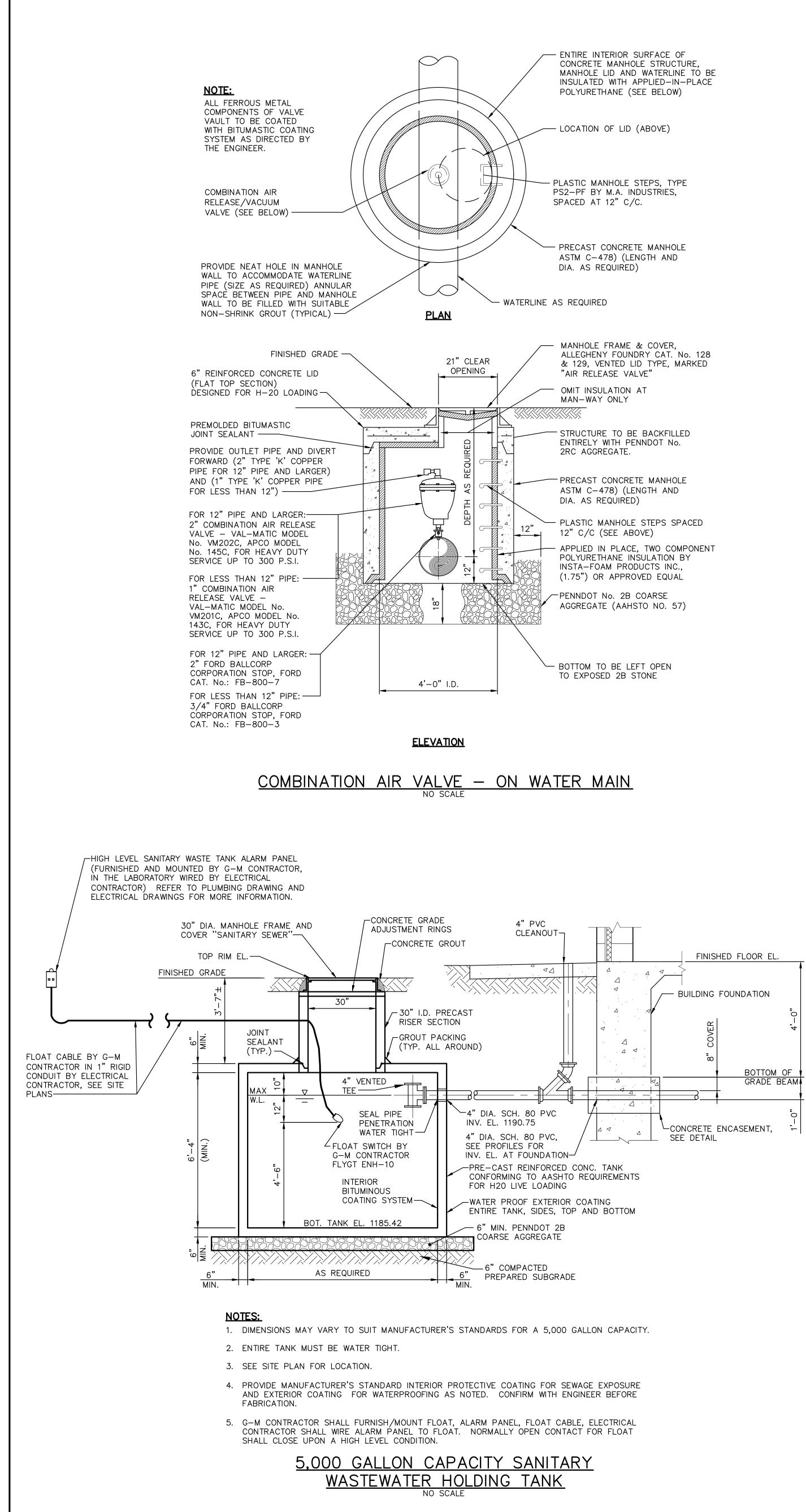


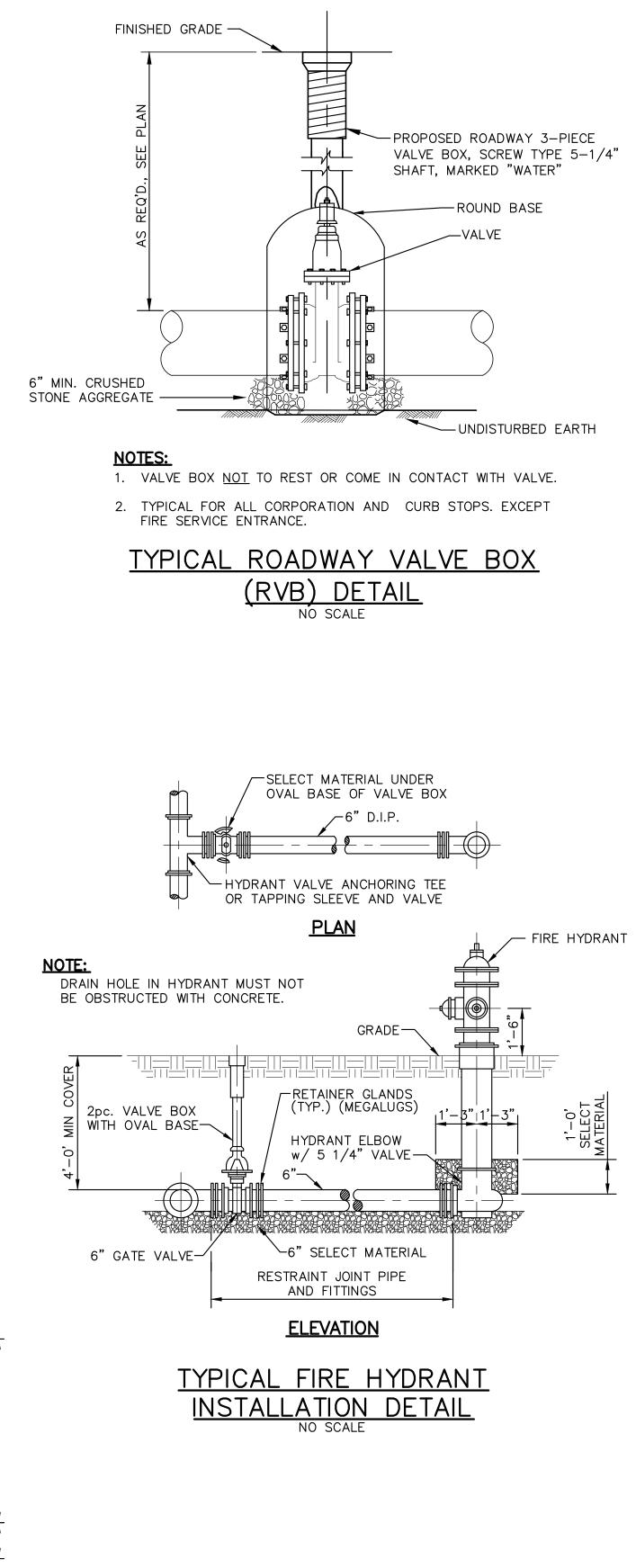


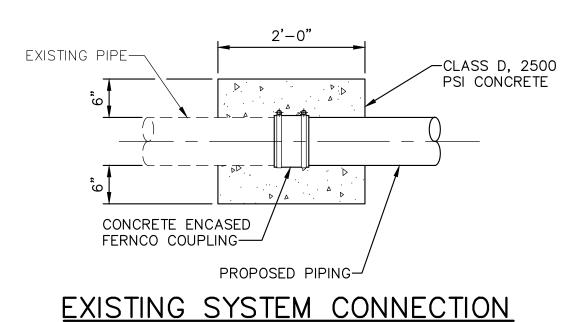
			TON WEAT		SITE DETAILS	
			PROFESSIONAL		e college bo Ater Author	
			KENNETH WILLIAM BELDIN, JR. ENGINEER No. PEOB1568		IXON-KOCHI TREATMENT	
1	8/12/19	REVISED PER TOWNSHIP COMMENTS		FERGUSON TOWN	NSHIP, CENTRE COUN	ITY, PEN
NO.	DATE	DESCRIPTION	SEAL	DATE: 8/12/19	JOB: 16049	SCALE
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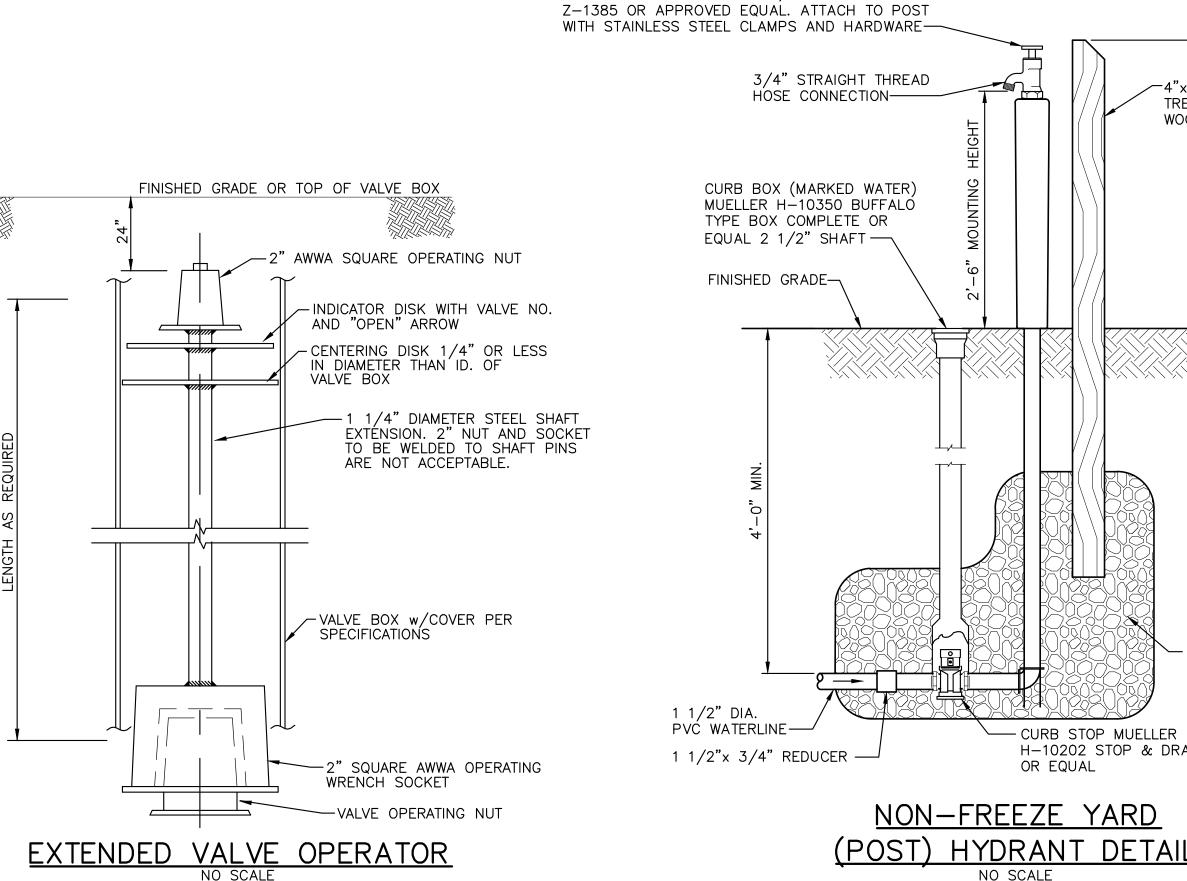


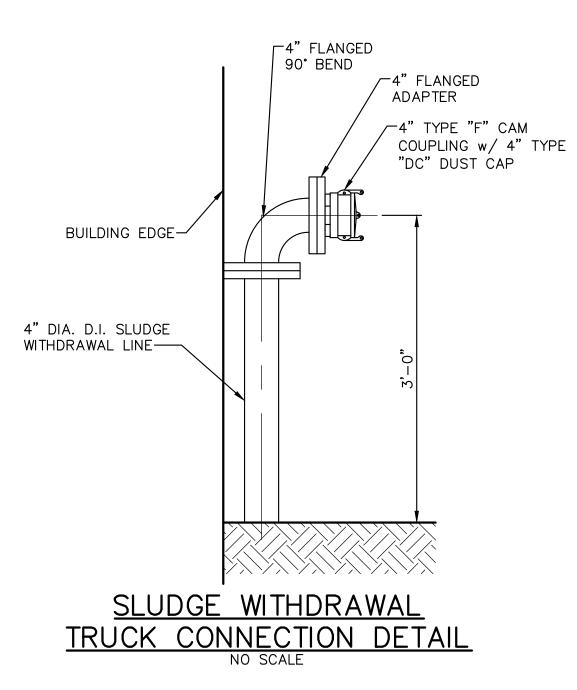


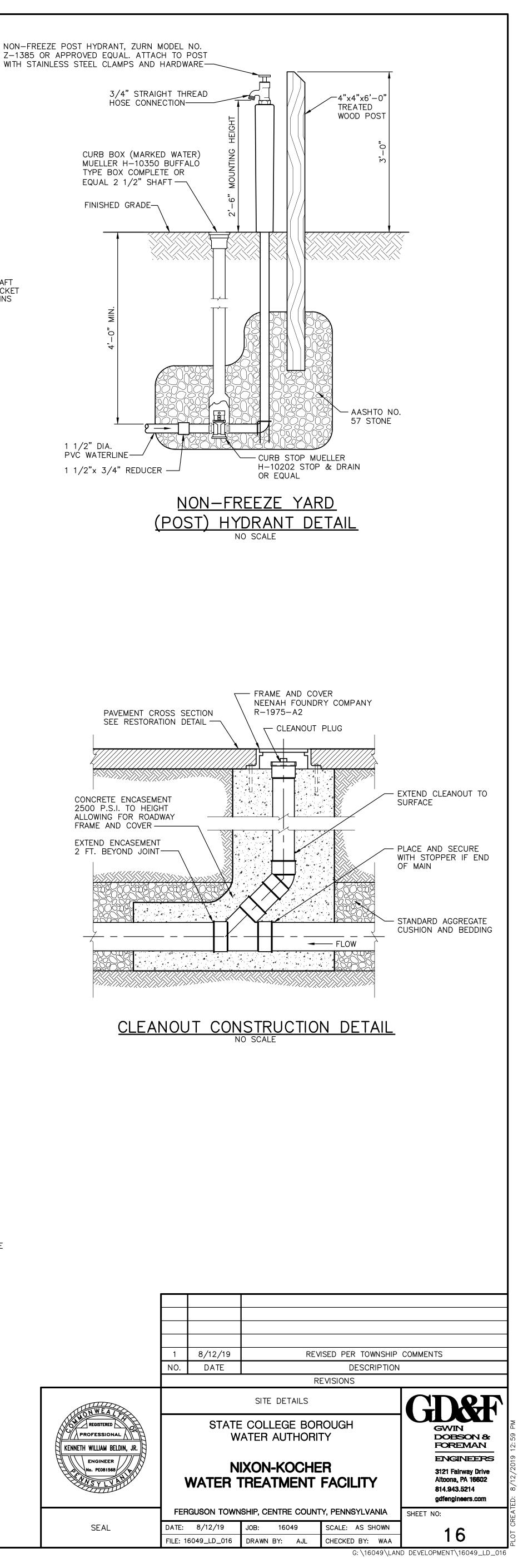


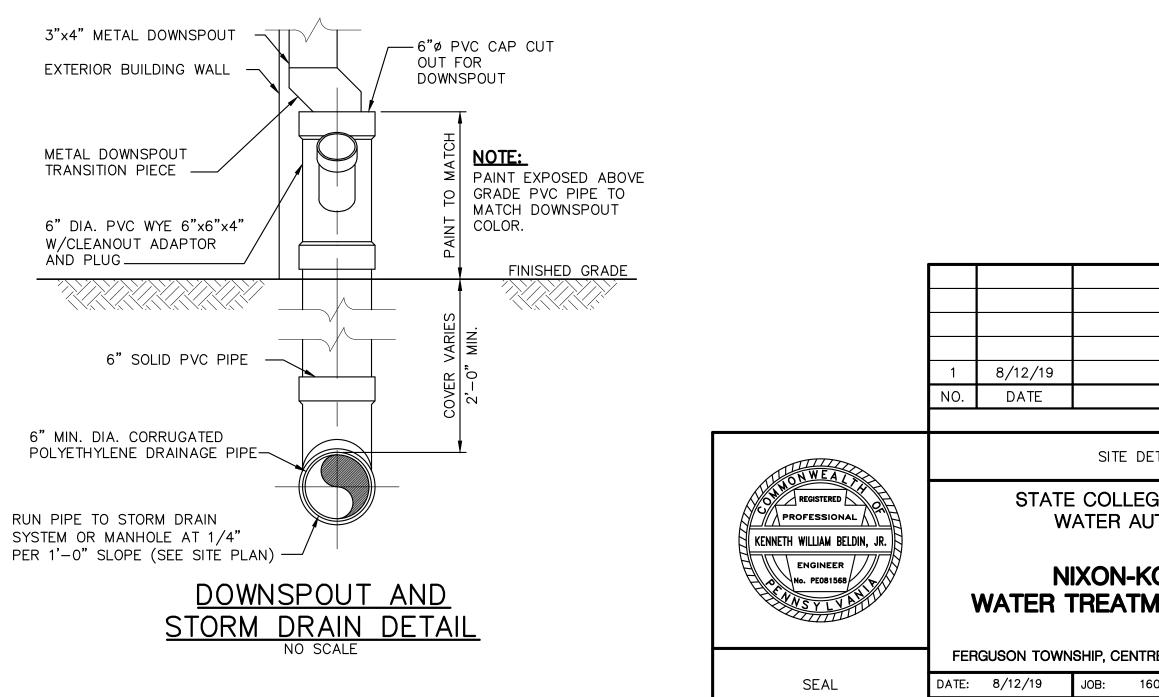


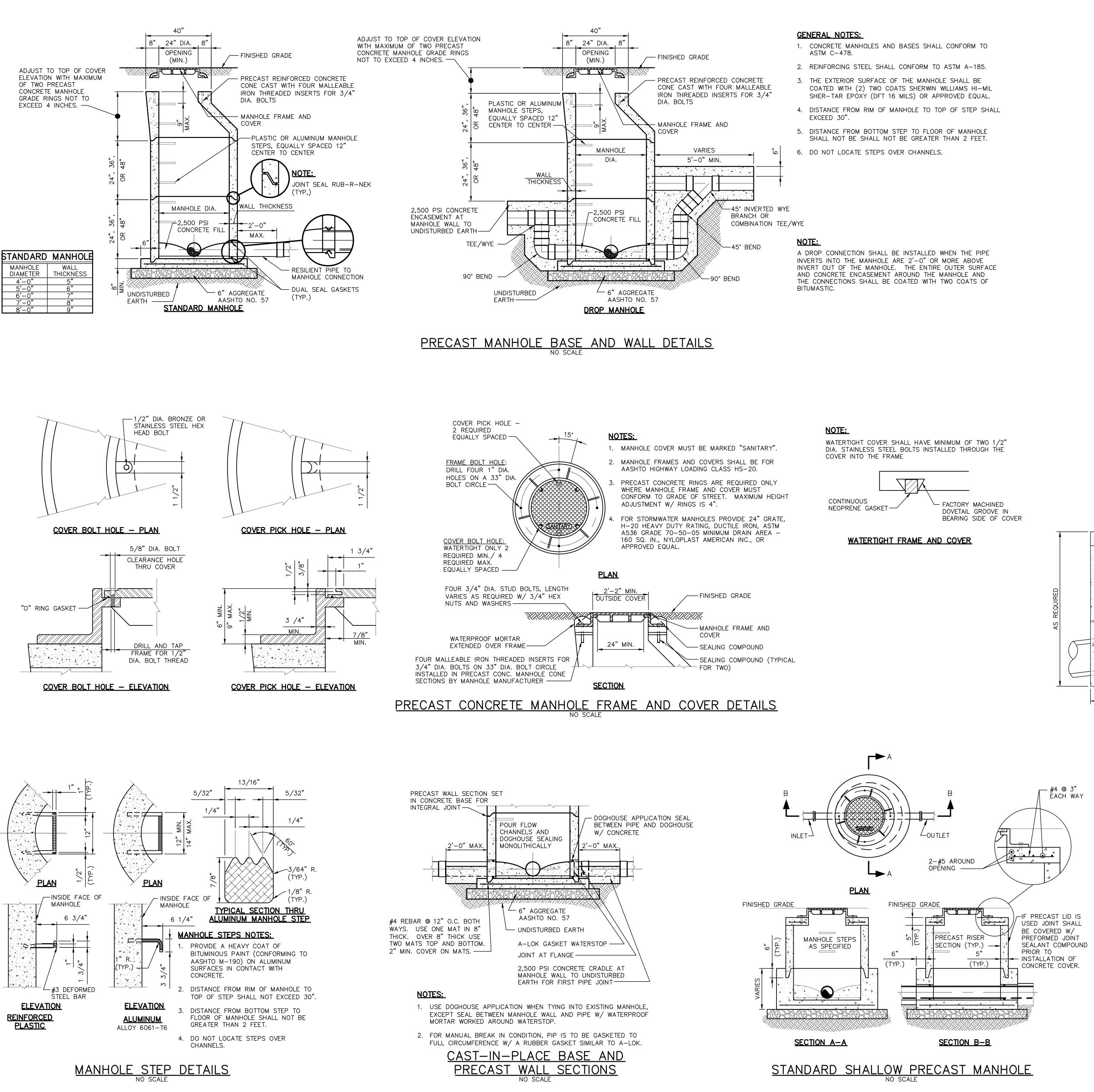
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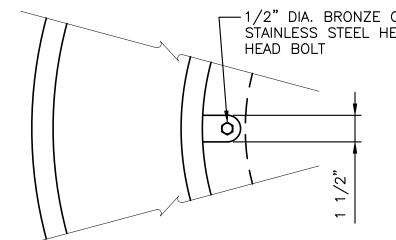


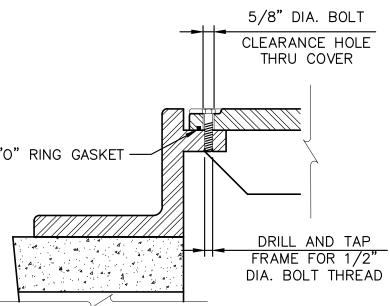




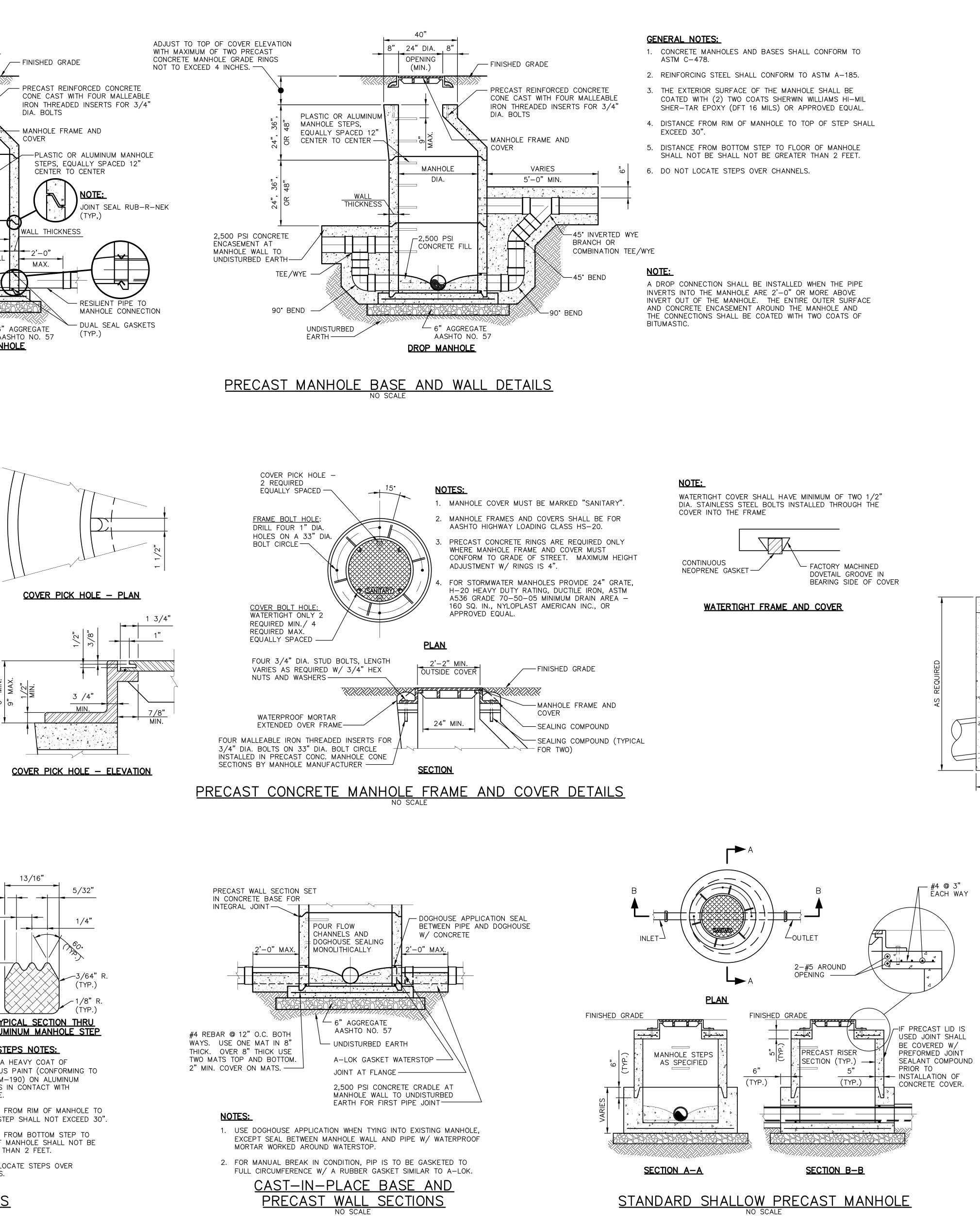


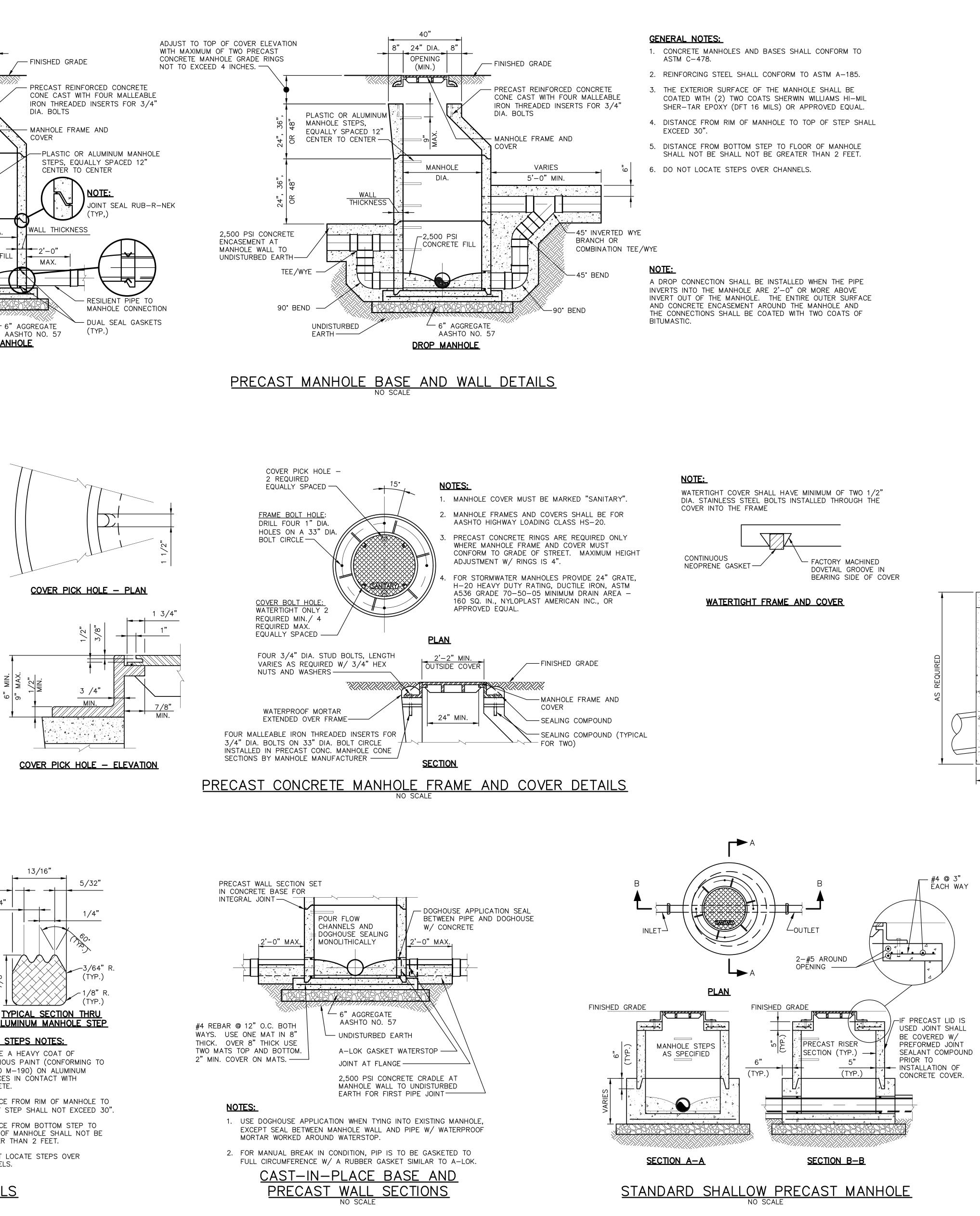


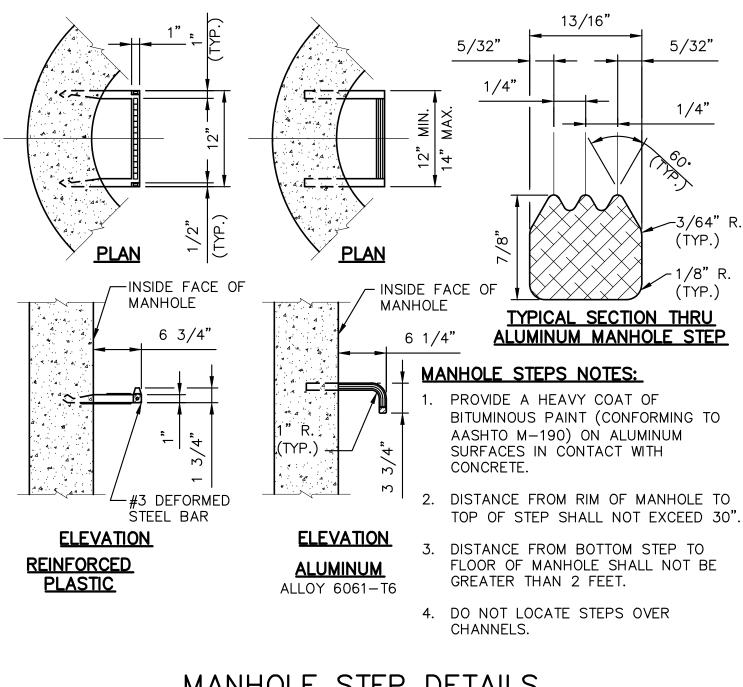


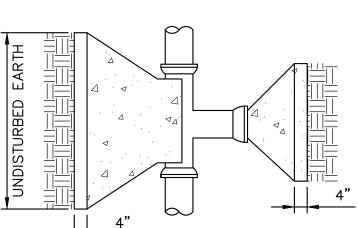




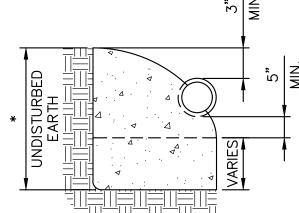




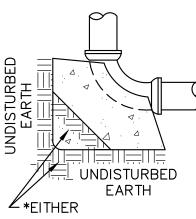




PLAN-TEES. WYES AND PLUGS



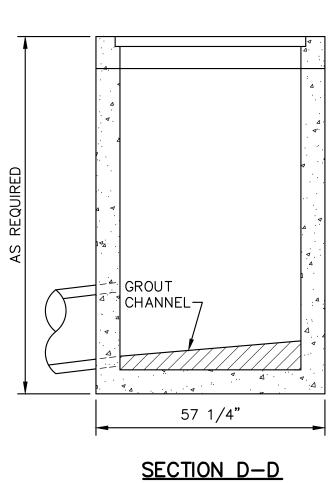
ELEVATION-TEES. WYES AND BENDS

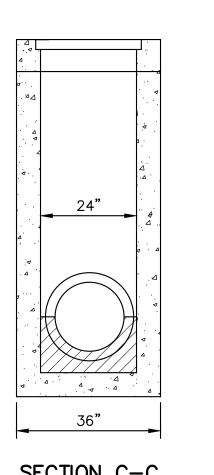


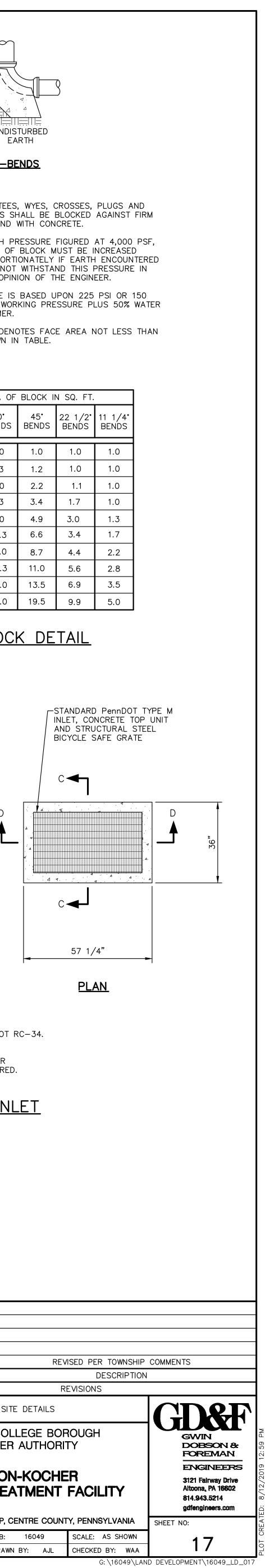
- GROUND WITH CONCRETE.

- SHOWN IN TABLE.

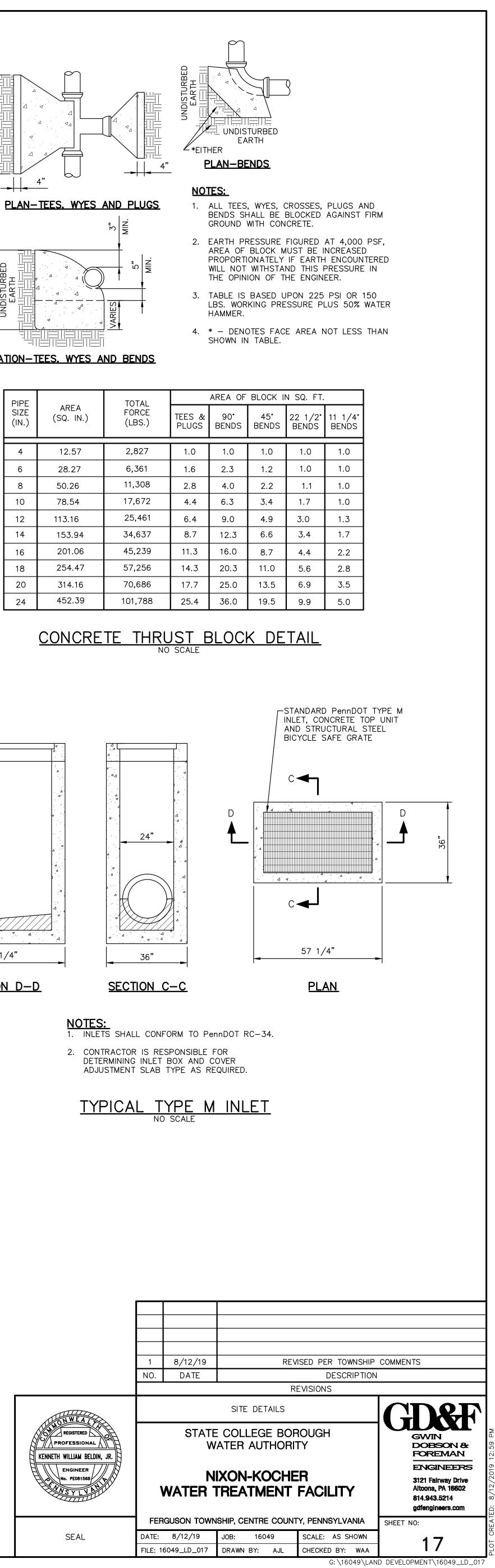
TOTAL PIPE AREA SIZE FORCE 90° 45° TEES & (SQ. IN.) (IN.) (LBS.) 2,827 12.57 1.0 1.0 1.0 1.0 4 6,361 1.0 2.3 1.2 28.27 1.6 6 11,308 4.0 2.2 1.1 50.26 2.8 8 17,672 3.4 1.7 10 6.3 78.54 4.4 25,461 12 113.16 6.4 9.0 4.9 3.0 14 3.4 34,637 8.7 12.3 6.6 153.94 45,239 16.0 16 201.06 11.3 8.7 4.4 11.0 57,256 20.3 5.6 18 254.47 14.3 20 70,686 25.0 13.5 6.9 17.7 314.16 24

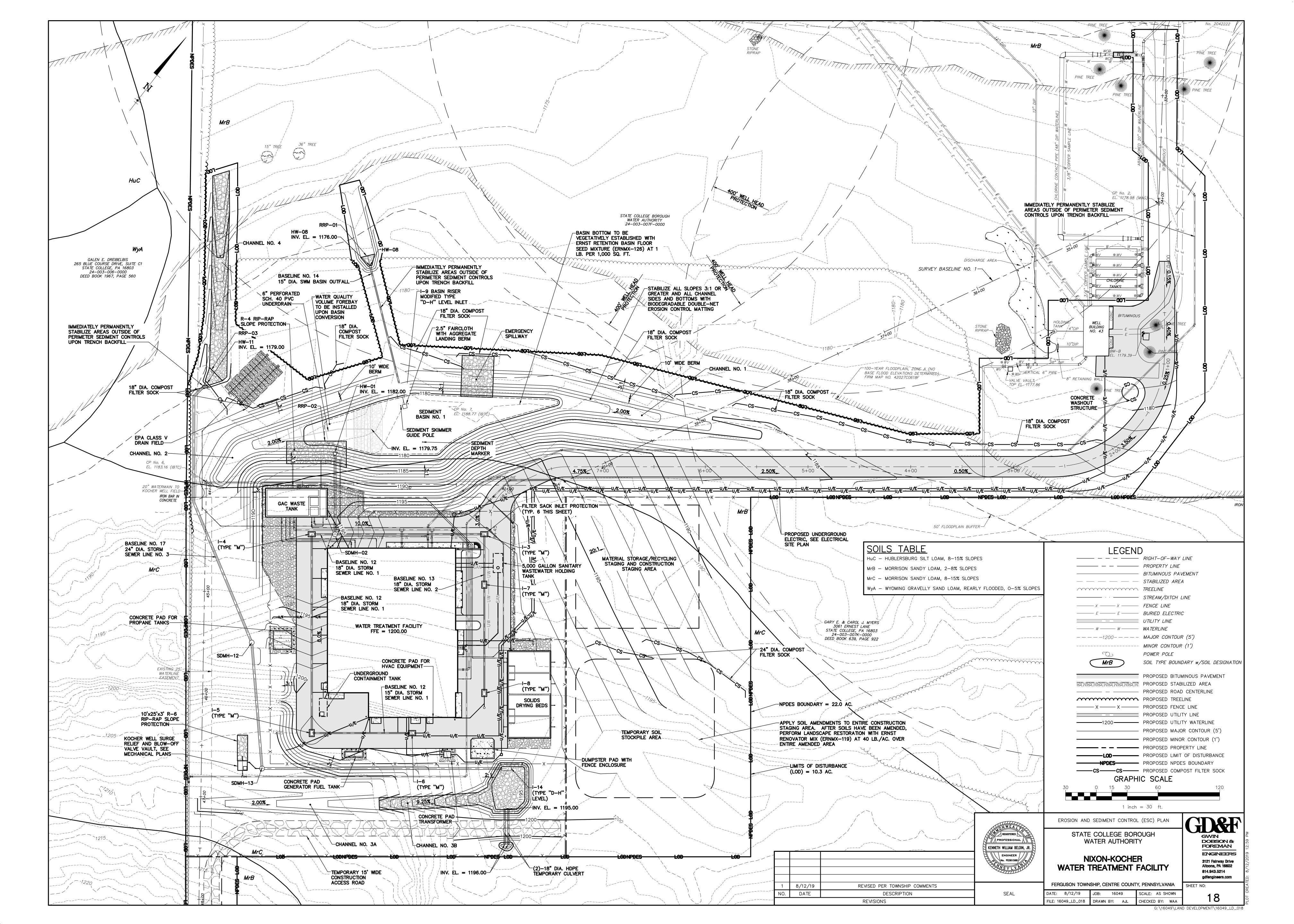


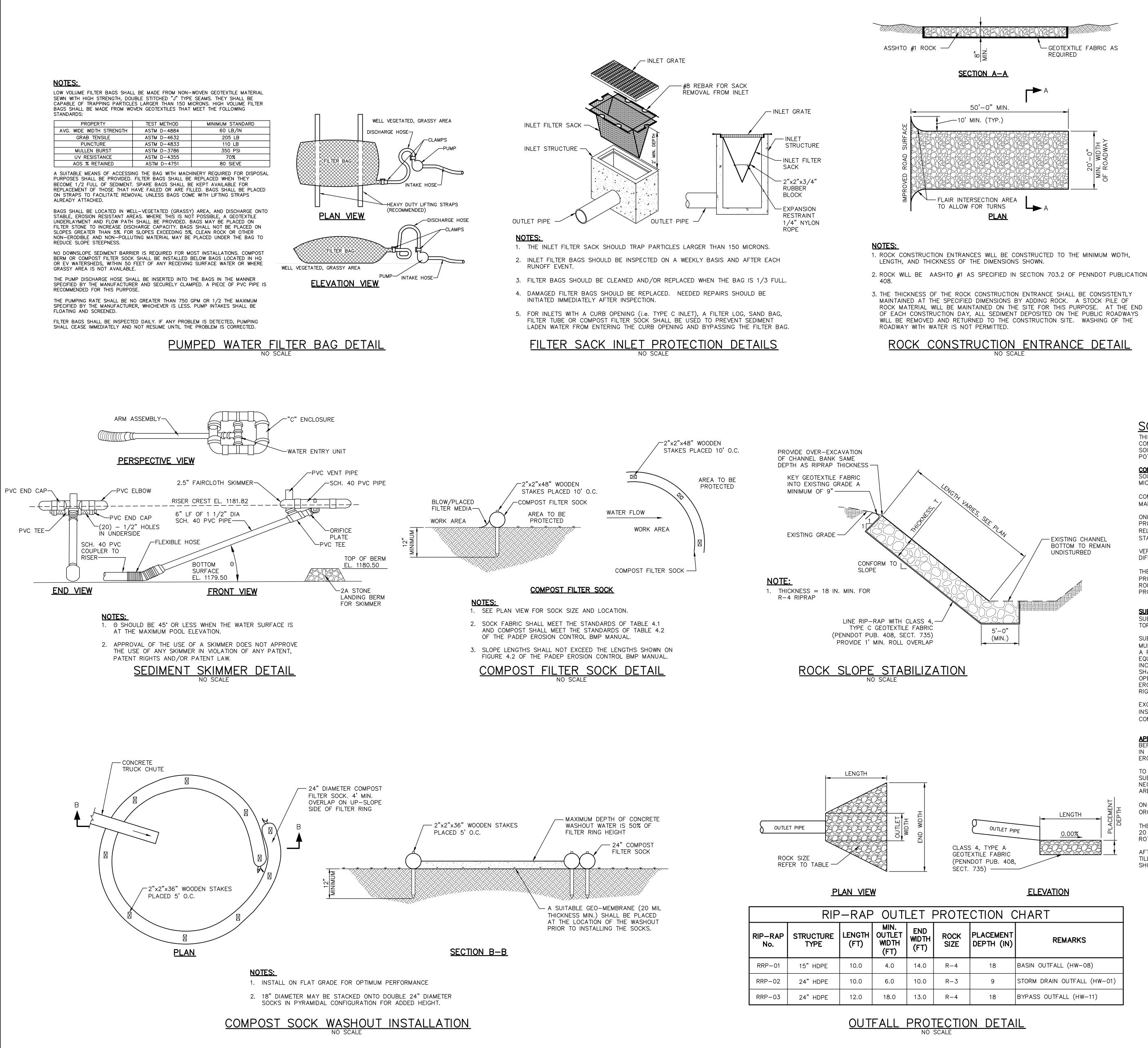


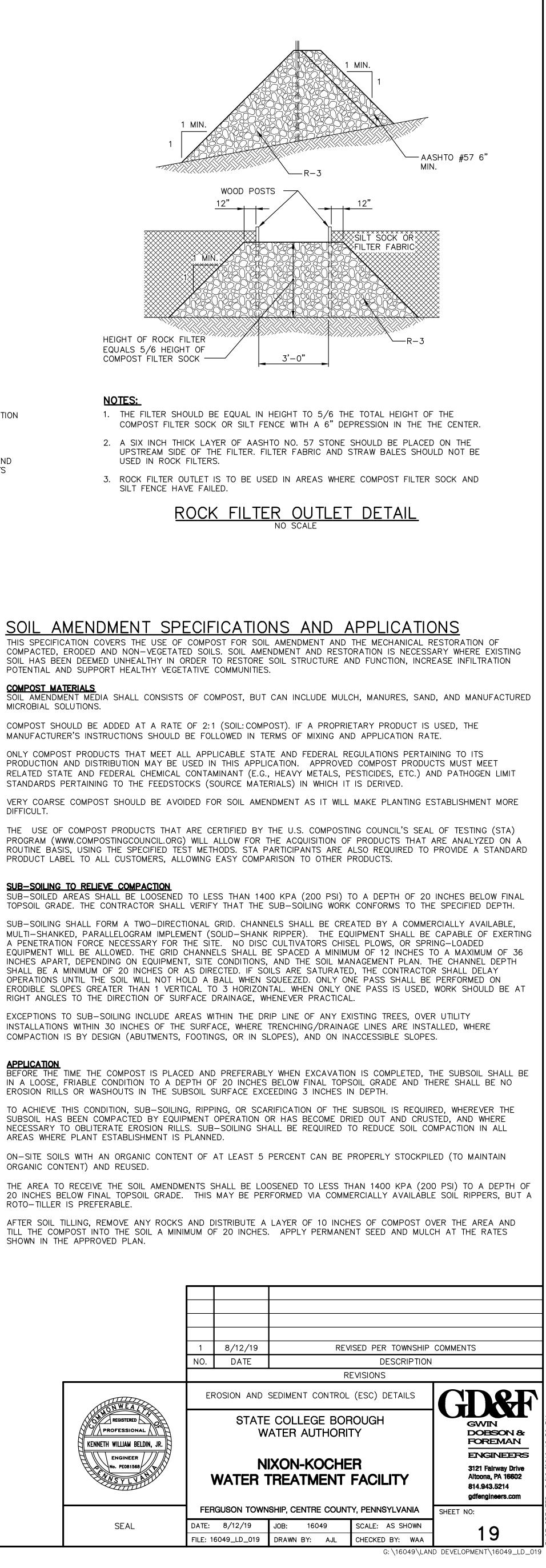


DETERMINING INLET BOX AND COVER









T F	T PROTECTION CHART							
ND DTH FT)	TH ROCK PLACEMENT REMARKS							
4.0	R-4	18	BASIN OUTFALL (HW-08)					
0.0	0.0 R-3 9 STORM DRAIN OUTFALL (HW-01)							
3.0	3.0 R-4 18 BYPASS OUTFALL (HW-11)							

POTENTIAL AND SUPPORT HEALTHY VEGETATIVE COMMUNITIES.

COMPOST MATERIALS MICROBIAL SOLUTIONS.

MANUFACTURER'S INSTRUCTIONS SHOULD BE FOLLOWED IN TERMS OF MIXING AND APPLICATION RATE.

STANDARDS PERTAINING TO THE FEEDSTOCKS (SOURCE MATERIALS) IN WHICH IT IS DERIVED. DIFFICULT.

PRODUCT LABEL TO ALL CUSTOMERS, ALLOWING EASY COMPARISON TO OTHER PRODUCTS.

SUB-SOILING TO RELIEVE COMPACTION

RIGHT ANGLES TO THE DIRECTION OF SURFACE DRAINAGE, WHENEVER PRACTICAL.

EXCEPTIONS TO SUB-SOILING INCLUDE AREAS WITHIN THE DRIP LINE OF ANY EXISTING TREES, OVER UTILITY COMPACTION IS BY DESIGN (ABUTMENTS, FOOTINGS, OR IN SLOPES), AND ON INACCESSIBLE SLOPES.

APPLICATION EROSION RILLS OR WASHOUTS IN THE SUBSOIL SURFACE EXCEEDING 3 INCHES IN DEPTH.

AREAS WHERE PLANT ESTABLISHMENT IS PLANNED.

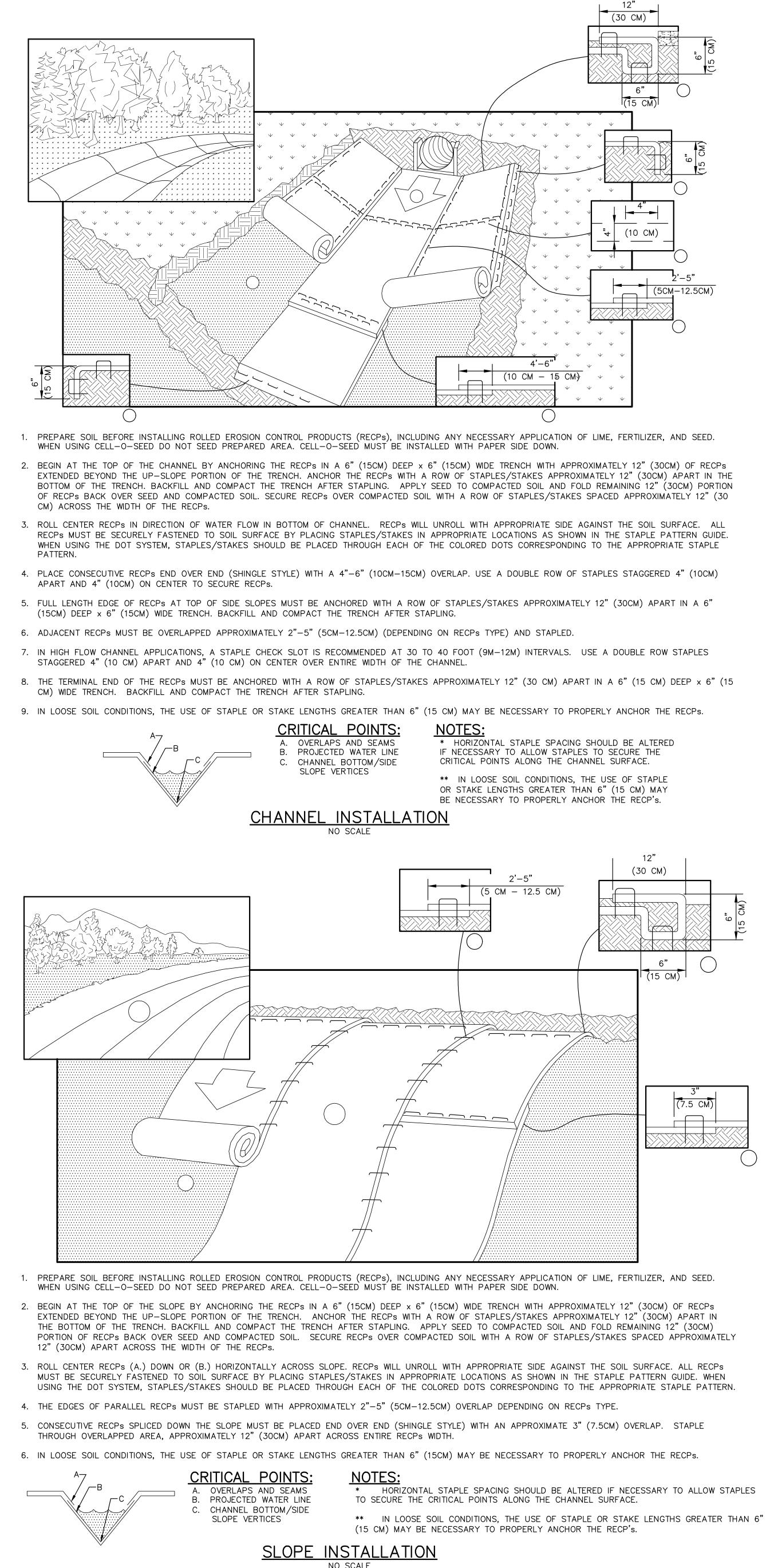
ORGANIC CONTENT) AND REUSED.

ROTO-TILLER IS PREFERABLE.

SHOWN IN THE APPROVED PLAN.

Image:
NO. DATE DES
1 8/12/19 REVISED PER

FERGUSON TOWN	SHIP, CENTRE COUNT	Y, PENNS
DATE: 8/12/19	JOB: 16049	SCALE:
FILE: 16049_LD_019	DRAWN BY: AJL	CHECKED



# TEMPORARY AND PERMANENT VEGETATIVE STABILIZATION S

PROJECT NAME:	NIXON-KOCHER WTF						
LOCATION:	FERGUSON TOWNSHIP, CENTRE COUNTY, PA						
PREPARED BY:	AJL	DATE:					
CHECKED BY:	KWB	DATE:					
L SPECIFICATIONS: THE DEPARTMENT RECOMMENDS THE USE OF THE PENN STATE PUBLICATION, "EROSION CONTROL PLANTINGS ON NONCROPLAND," AS THE STANDARD TO USE FOR THE SELECTION OF SPECIES, SEED SPECIFICATIONS, FERTILIZING, TIME OF SEEDING, AND SEEDING METHODS. SPECIFICATIONS FOR THESE ITEMS MAY ALSO BE OBTAINED PUBLICATION #408, SECTION 804 OR BY CONTACTING THE APPLICABLE COUNTY CONSERVATION DISTRICT. UPON SE							

THAT REFERENCE SHOULD BE USED TO PROVIDE ALL SPECIFICATIONS FOR SEEDING, MULCHING, AND SOIL AMENE SPECIFICATION WILL BE USED FOR THIS PROJECT: (TEMPORARY)

ANNUAL RYEGRASS OR
SEE SEEDING TA
10 (RYEGRASS) OR 56 (WINT
10-10-10
500 LB./ACF
1 T./ACRE
STRAW
3 T./ACRE

TOPSOIL PLACEMENT DEPTH:	6 IN.
*SPECIES:	FORMULA E
% PURE LIVE SEED:	SEE SEEDING T
APPLICATION RATE:	SEE SEEDING TA
FERTILIZER TYPE:	10-10-20
FERTILIZER APPL. RATE:	1000 LB./AC
LIMING RATE:	6 T./ACRE
MULCH TYPE:	STRAW
MULCHING RATE:	3 T./ACRE
ANCHOR MATERIAL:	N/A
ANCHORING METHOD:	MECHANICAL CRI
RATE OF ANCHOR MATERIAL APPL:	N/A
SEEDING SEASON DATES:	MARCH 15 - JUNE 1 AND AUG
PERMANENT – STEEP SLOPE)	
TOPSOIL PLACEMENT DEPTH:	6 IN.
*SPECIES:	FORMULA D
% PURE LIVE SEED:	SEE SEEDING T
APPLICATION RATE:	SEE SEEDING T
FERTILIZER TYPE:	10-10-20
FERTILIZER APPL. RATE:	1000 LB./AC
LIMING RATE:	6 T./ACRE
MULCH TYPE:	STRAW
MULCHING RATE:	3 T./ACRE
ANCHOR MATERIAL:	N/A
ANCHORING METHOD:	MECHANICAL CRI
RATE OF ANCHOR MATERIAL APPL:	N/A

SEEDING SEASON DATES:

SEED MIXTURES AND APPLICATION RATES					
FORMULA AND SPECIES		% BY MIN WEIGHT	NIMUM %	MAX. % WEED SEED	SEEDING RATE (lbs.\1000yd²)
		PURITY	GERMINATION		
FORMULA B MIX					42.0 TOTAL
PERENNIAL RYEGRASS MIXTURE (LOLIUM PERENNE). A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.	20	97	90	0.10	8.5
CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.10	12.5
KENTUCKY BLUEGRASS MIXTURE (POA PRATENSIS). A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.	50	97	80	0.15	21.0
FORMULA D CONSERVATION MIX					50.0 TOTAL
TALL FESCUE (FESTUCA ARUNDINACEA VAR. KENTUCKY 31)	60	96	85	0.10	30.0
CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) (IMPROVED AND CERTIFIED)	30	97	85	0.10	15.0
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	10	95	90	0.10	5.0

MARCH 15 - JUNE 1 AND A

SPECIFICATIONS
8/8/19
8/8/19
DL AND CONSERVATION NS, MIXTURES, LIMING AND NED FROM PENNDOT SELECTION OF A REFERENCE, DMENTS. THE FOLLOWING
OR WINTER RYE
TABLE
NTER RYE) LB./ACRE
10
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UGUST 1 – OCTOBER 1
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CRIMPING
UGUST 1 – OCTOBER 1

# MULCHING AND SEEDING NOTES:

- A. SEED MIXTURES AND APPLICATION RATES SHALL BE AS SET FORTH IN SECTION 804 OF THE PENNDOT CONSTRUCTION SPECIFICATIONS (PUBLICATION 408). PLEASE NOTE THAT THERE MAY BE ACIDIC SOILS PRESENT ON THE SITE. THIS LIMITS THE TYPE AND SPECIES OF VEGETATION TO BE USED FOR STABILIZATION.
- B. PROVIDE SEED CONFORMING TO THE REGULATIONS OF CHAPTER 71 SEED OF THE PENNSYLVANIA SEED ACT 164 OF 2004, EFFECTIVE JANUARY 29, 2005, AND AMENDMENTS AND MEET ANY OTHER APPLICABLE REGULATIONS OF THE SEED, TESTING AND CERTIFICATION PROGRAMS OF THE PENNSYLVANIA DEPARTMENT OF AGRICULTURE (PDA), BUREAU OF PLANT INDUSTRY. PROVIDE SEEDS THAT HAVE BEEN TESTED AND APPROVED FOR THE SPECIFIED SEED FORMULA'S PURITY, GERMINATION, AND WEED SEED ANALYSIS LIMITS AND OTHER APPLICABLE PDA RULES FOR SEED TESTING. PROVIDE CERTIFIED SEED FOR ALL KENTUCKY BLUEGRASS, PERENNIAL RYEGRASS, CREEPING RED FESCUE, CHEWINGS FESCUE AND HARD FESCUE VARIETIES SUBMITTED FOR EACH SEED FORMULA.
- C. PROVIDE PREMIXED SEED MIXTURES FROM A LICENSED SEED DISTRIBUTOR/SEED MIXING COMPANY LOCATED WITHIN THE COMMONWEALTH AND MIXED UNDER THE SUPERVISION OF THE PDA FOR THE DESIGNATED PENNDOT SEED FORMULAS. USE ONLY SEED THAT HAS AN APPROVED SEED INSPECTOR'S TAG OR LABEL SIGNED BY A PDA INSPECTOR SEWN OR STAPLED TO THE OUTSIDE OF EACH SEED BAG OR OTHER CONTAINER IN A CONSPICUOUS PLACE. PRESSURE SENSITIVE LABELS MAY BE USED ON PAPER OR PLASTIC CONTAINERS.
- D. SEED MIXTURES MAY ALSO BE MIXED TO PROJECT SPECIFICATIONS AT THE PROJECT SITE FOR SPECIAL SEED FORMULAS IF ALL SPECIFIED SEED SPECIES HAVE BEEN PREVIOUSLY INSPECTED, TESTED, AND APPROVED BY PDA FOR THE DESIGNATED PURITY, GERMINATION, WEED SEED LIMITS, OR PURE LIVE SEED ANALYSIS. MIX THE SEED SPECIES TO THE DESIGNATED FORMULA OR MIXTURE SPECIFICATIONS UNDER SUPERVISION BY THE ENGINEER.
- E. DO NOT USE SEED FROM CONTAINERS THAT HAVE NOT BEEN PROPERLY SEALED. DO NOT USE SEED THAT HAS A SELL-BY DATE OF MORE THAN 15 MONTHS FROM THE DATE OF THE INSPECTION, EXCLUSIVE OF THE MONTH OF THE TEST. THE ENGINEER MAY REJECT OR REQUEST RE-TESTING FOR ANY QUESTIONABLE SEED DELIVERED TO THE PROJECT.
- F. KEEP SEEDING RATE TO THAT RECOMMENDED IN THE TABLES. SEED MIXTURES CONTAINING INVASIVE SPECIES SHOULD NOT BE USED IN AREAS ADJACENT TO WETLANDS OR STREAM CHANNELS.
- G. PREPARE AREAS FOR SEEDING BY UNIFORMLY APPLYING SUPPLEMENTS. BLEND THE INITIAL SOIL SUPPLEMENTS INTO THE SOIL AT LEAST 2 INCHES, ON TOPSOILED AREAS, BY RAKING, DISKING, HARROWING, OR OTHER ACCEPTABLE METHODS. BLEND THE SUPPLEMENTS INTO THE SOIL DURING TILLAGE OPERATIONS.
- H. APPLY SLOW-RELEASE NITROGEN FERTILIZER TO THE SURFACE OF FORMULA B AND D SEEDED AREAS BEFORE PROJECT COMPLETION. DO NOT APPLY SLOW-RELEASE NITROGEN FERTILIZER SUPPLEMENT TO FORMULA C SEEDED AREAS. I. FILL SLOPES SHOULD BE SEEDED AND MULCHED AT REGULAR VERTICAL INCREMENTS, 15 TO 25 FEET MAXIMUM, AS THE FILL IS BEING
- CONSTRUCTED. THIS WILL ALLOW THE BOTTOM OF THE FILL TO PROGRESS TOWARD STABILIZATION WHILE WORK CONTINUES ON THE UPPER PORTION, MAKING FINAL STABILIZATION EASIER TO ACHIEVE AND PROVIDING SOME VEGETATIVE BUFFERING AT THE BOTTOM OF THE SLOPE.
- J. WHEREVER SEED AND/OR MULCH IS APPLIED BY HYDROSEEDING METHODS, THE SEED AND MULCH SHOULD BE APPLIED IN SEPARATE APPLICATIONS WITH THE SEED BEING APPLIED FIRST AND THE MULCH SPRAYED ON TOP OF THE SEED. THIS IS TO ENSURE THAT THE SEED MAKES CONTACT WITH THE UNDERLYING SOIL. SOIL PREPARATION SHOULD BE COMPLETED PRIOR TO ADDING SEED TO THE HYDROSEEDING EQUIPMENT. RUNNING SEED THROUGH THE PUMPING SYSTEM CAN RESULT IN EXCESSIVE ABRASION OF THE SEED AND REDUCE THE PERCENTAGE OF PURE LIVE SEED IN THE APPLICATION. THEREFORE ALL SITE PREPARATION SHOULD BE COMPLETED PRIOR TO THE ARRIVAL OF THE HYDROSEEDER.
- K. VEHICULAR TRAFFIC SHOULD BE RESTRICTED FROM AREAS TO BE SEEDED TO PREVENT SOIL COMPACTION. L. PLACE MULCH, OF THE TYPE INDICATED, IMMEDIATELY AFTER SEEDING IS COMPLETED. UNLESS OTHERWISE INDICATED, PLACE ONLY STRAW OR WOOD FIBER OVER TOPSOILED AREAS. USE HAY, STRAW, OR WOOD FIBER IN OTHER AREAS.
- M. PLACE HAY OR STRAW UNIFORMLY, IN A CONTINUOUS BLANKET, AT A MINIMUM RATE OF 1,200 POUNDS PER 1,000 SQUARE YARDS. AN ACCEPTABLE MECHANICAL BLOWER MAY BE USED TO APPLY MULCH. DO NOT USE MACHINES THAT CUT MULCH INTO SHORT PIECES. N. MULCH TEMPORARILY SEEDED AREAS WITH HAY.
- RECYCLING AND DISPOSAL OF WASTE MATERIAL
- 1. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH DEP'S SOLID WASTE MANAGEMENT REGULATIONS OF 25 PA CODE 260.1 ET SEQ., 271.1 ET SEQ. AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF WASTE FROM THIS PROJECT AT AN APPROVED DISPOSAL SITE (SEE NOTES 2 AND 3 BELOW). THE CONTRACTOR WILL INSPECT THE PROJECT AREA WEEKLY. THE CONTRACTOR WILL PROPERLY AND LEGALLY DISPOSE OF ALL CONSTRUCTION WASTES. MATERIALS WILL BE SEPARATED FROM OTHER WASTES AND HANDLING FOR SUITABLE RECYCLING. RECEIPTS FROM THE RECYCLING CENTERS SHALL BE FILED WITH THE ENGINEER.
- 3. THE CONTRACTOR IS RESPONSIBLE FOR DEPOSITING OF ALL CLEAN/SAFE FILL, AS DEFINED BY PA CODE, TITLE 25, INCLUDING, BUT NOT LIMITED TO, EXCESS SOIL MATERIALS, AT AN OFFSITE LOCATION TO BE DETERMINED BY THE GENERAL CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. IF POTENTIALLY HAZARDOUS MATERIAL IS OBSERVED DURING CONSTRUCTION EXCAVATION, THE ENGINEER WILL EVALUATE THE MATERIAL IN ACCORDANCE WITH THE CLEAN/SAFE FILL POLICY REGULATIONS. IF QUESTIONABLE MATERIAL IS ENCOUNTERED, ALL CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL THE SITE IS ENVIRONMENTALLY CLEARED.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SEPARATE WRITTEN E&S PLAN FOR PROPOSED PERMANENT WASTE/SPOIL AREAS GREATER THAN 5,000 SQUARE FEET IN DISTURBANCE; THE WASTE AREA MUST COMPLY WITH ALL CHAPTER 102 EROSION CONTROL RULES AND REGULATIONS. INCLUDING NPDES PERMIT REQUIREMENTS IF GREATER THAN 1 ACRE OF DISTURBED GROUND OCCURS: THE WASTE/SPOIL AREA MUST COMPLY WITH CHAPTER 105 STREAM ENCROACHMENT REGULATIONS AND BE MORE THAN 50 FEET FROM ANY FLOODWAY. TOP OF STREAM BANK OR WETLANDS.
- 5. ANY MATERIAL THAT DOES NOT MEET THE CRITERIA OF THE CLEAN/SAFE FILL POLICY SHALL BE DISPOSED OF AT A PA DEP APPROVED SITE.
- 6. ALL MATERIALS USED FOR THE CONSTRUCTION AND MAINTENANCE OF THE TREATMENT FACILITY AND ANY APPURTENANT CONSTRUCTION, AS WELL AS ANY UNDISCLOSED OR UNKNOWN ITEMS/OBJECTS REVEALED BY EXCAVATING OR GRADING, WILL BE REMOVED FROM THE PROJECT AREA BY THE CONTRACTOR AND DISPOSED OF PROPERLY. WASTE DISPOSAL IN LANDFILLS SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. OF THE INEVITABLE WASTE THAT IS GENERATED, AS MUCH OF THE WASTE MATERIAL AS ECONOMICALLY FEASIBLE SHALL BE SALVAGED, RECYCLED OR REUSED.

THE CONTRACTOR SHALL USE ALL REASONABLE MEANS TO DIVERT CONSTRUCTION AND DEMOLITION WASTE FROM LANDFILLS AND INCINERATORS, AND FACILITATE THEIR SALVAGE AND RECYCLE INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- A. WASTE MANAGEMENT PLAN DEVELOPMENT AND IMPLEMENTATION. B. TECHNIQUES TO MINIMIZE WASTE GENERATION.
- C. SORTING AND SEPARATING OF WASTE MATERIALS D. SALVAGE OF EXISTING MATERIALS AND ITEMS FOR REUSE OR RESALE. E. RECYCLING OF MATERIALS THAT CANNOT BE REUSED OR SOLD.
- AT A MINIMUM, THE FOLLOWING WASTE CATEGORIES SHALL BE DIVERTED FROM LANDFILLS:
- SOIL.
- INERTS (EG. CONCRETE, MASONRY AND ASPHALT). CLEAN DIMENSIONAL WOOD AND PALETTE WOOD.
- GREEN WASTE (BIODEGRADABLE LANDSCAPING MATERIALS). • ENGINEERED WOOD PRODUCTS (PLYWOOD, PARTICLE BOARD AND I-JOISTS, ETC).
- METAL PRODUCTS (EG, STEEL, WIRE, BEVERAGE CONTAINERS, COPPER, ETC). CARDBOARD, PAPER AND PACKAGING.
- BITUMEN ROOFING MATERIALS. PLASTICS (EG, ABS, PVC).
- CARPET AND/OR PAD AND OTHER FLOORING MATERIALS.
- GYPSUM BOARD. INSULATION.
- PAINT. FLUORESCENT LAMPS.

THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN THE MANAGEMENT OF NON-HAZARDOUS BUILDING CONSTRUCTION AND DEMOLITION WASTE. THEY SHALL ALSO CONDUCT A SITE ASSESSMENT TO ESTIMATE THE TYPES OF MATERIALS THAT WILL BE GENERATED BY DEMOLITION AND CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ANY SPECIAL PROGRAMS INVOLVING REBATES OR SIMILAR INCENTIVES RELATED TO RECYCLING AND PROVIDE ALL DEMOLITION, REMOVAL AND LEGAL DISPOSAL OF MATERIALS. THE CONTRACTOR SHALL ENSURE THAT FACILITIES USED FOR RECYCLING, REUSE AND DISPOSAL SHALL BE PERMITTED FOR THE INTENDED USE TO THE EXTENT REQUIRED BY LOCAL, STATE, FEDERAL REGULATIONS. THE WHOLE BUILDING DESIGN GUIDE WEBSITE (HTTP: //WWW.WBDG.ORG/TOOLS/CWM.PHP) PROVIDES A CONSTRUCTION WASTE MANAGEMENT DATABASE THAT CONTAINS INFORMATION ON COMPANIES THAT HAUL, COLLECT, AND PROCESS RECYCLABLE DEBRIS FROM CONSTRUCTION PROJECTS.

THE CONTRACTOR SHALL ASSIGN A SPECIFIC ONSITE AREA TO FACILITATE SEPARATION OF MATERIALS FOR REUSE, SALVAGE, RECYCLING AND RETURN. SUCH AREAS ARE TO BE KEPT NEAT AND CLEAN AND CLEARLY MARKED IN ORDER TO AVOID CONTAMINATION OR MIXING OF MATERIALS. ONSITE INSTRUCTIONS AND SUPERVISION OF SEPARATION, HANDLING, SALVAGING, RECYCLING, REUSE AND RETURN METHODS TO BE USED BY ALL PARTIES DURING WASTE GENERATING STAGES SHALL BE AVAILABLE AT ALL TIMES. RECORDS OF DAILY REPORTS INDICATING ANY PROBLEMS IN COMPLYING WITH REUSE, SALVAGE, RECYCLING AND RETURN SHALL BE KEPT ONSITE AT ALL TIMES AND SHALL NOTE ANY CORRECTIVE ACTIONS TAKEN FOR COMPLIANCE.

1	8/12/19	REVISED PER
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		REVISIONS



# STATE COLLEGE BOROUGH

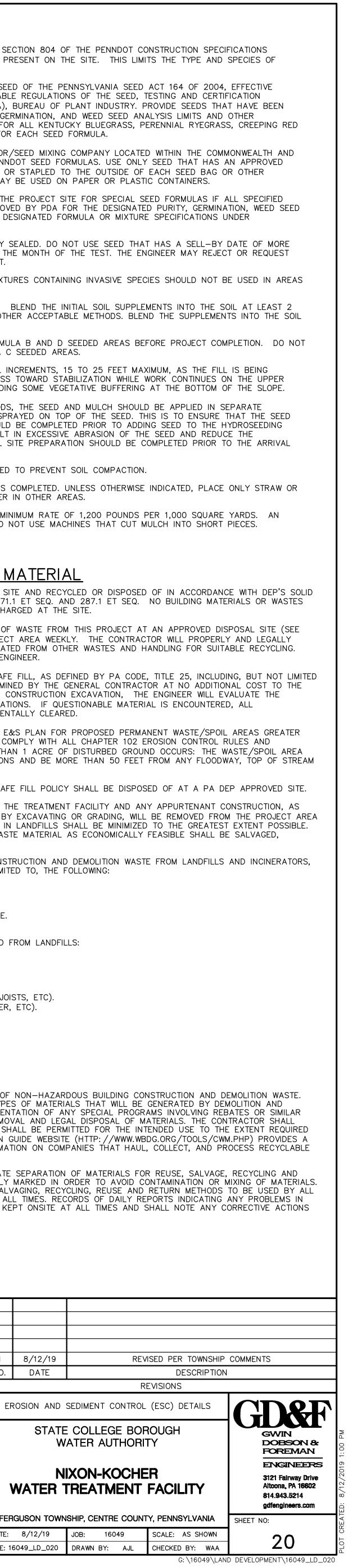
WATER AUTHORITY

# NIXON-KOCHEF WATER TREATMENT FACILITY

FERGUSON TOWN	SHIP, CENTRE COUNT	Y, PENNS
DATE: 8/12/19	JOB: 16049	SCALE:
FILE: 16049_LD_020	DRAWN BY: AJL	CHECKED



SEAL



STANDARD EROSION AND SEDIMENT CONTROL NOTES: 1. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE DESIGN FOR ALL AND THESE THE DEVIEWING AGENCY SHALL DE NOTHERD OF ANY OHIGH DESIGN FOR THE APPROVED TO	EROSION AND SEDIMENT CONTROL MAINTENANCE SCHEDULE: <ol> <li>All sediment and erosion control facilities shall be checked for damage and clogging on a weekly basis and after each storm event. All facilities that are damaged, clogged, or can no longer perform in the manner for which they were designed shall be replaced.</li> </ol>
AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION. 2. AT LEAST TEN (10) DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR	2. ANY PERMANENTLY STABILIZED AREAS THAT BECOME ERODED SHALL HAVE THE TOPSOIL REPLACED AND THE GRASS SOWN AGAIN WITH NEW MULCH APPLIED. IF CULTIVATION OF A NEW LEGUME OR GRASS CROP IS NOT PRACTICAL IN THE ERODED AREA, THE CONTRACTOR SHALL INSTALL NYLON EROSION CONTROL MATS.
OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.	3. IF THE VEGETATIVE COVER ESTABLISHED IS ALLOWED TO DETERIORATE AND BECOME INEFFECTIVE, A FERTILIZATION AND SEEDING PROGRAM SHALL BE ESTABLISHED AND CARRIED OUT AS THE CONSTRUCTION PROCEEDS. AREAS WHERE FAILURES HAVE BEEN EXPERIENCED IN THE ESTABLISHMENT OF BOTH PERMANENT AND TEMPORARY VEGETATIVE PROTECTION SHALL BE PROMPTLY TREATED. THE RE-ESTABLISHMENT OF
3. AT LEAST THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.	PERMANENT VEGETATIVE COVER SHALL BE INITIATED AS SOON AS POSSIBLE. 4. WHEN THE ACCUMULATION OF SEDIMENT IN THE CONTROL DEVICES REACHES 1/3 THE DEPTH OF THE DEVICE OR AS SPECIFIED BY THE MANUFACTURER, THE SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN SUCH LOCATIONS AS DETERMINED BY THE CONTRACTOR AND
4. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCES PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) PRIOR TO IMPLEMENTATION.	APPROVED BY THE OWNER. THESE LOCATIONS SHALL BE SELECTED SUCH THAT THE SEDIMENT WILL NOT ERODE INTO THE CONSTRUCTION AREA OR ANY NATURAL WATERWAY. 5. ALL SEDIMENT AND EROSION FACILITIES MUST BE MAINTAINED IN OPERATING CONDITION UNTIL UPSTREAM AREAS ARE STABILIZED WITH FINAL
<ol> <li>AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.</li> <li>CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION</li> </ol>	GROUND COVER AND HAVE ESTABLISHED UNIFORM 70% VEGETATIVE COVER OR GREATER OF EROSION RESISTANT PERENNIAL SPECIES. 6. SEDIMENT DEPOSITED ON PAVED ROADWAYS SHOULD BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE THROUGH STREET SWEEPING AS NEEDED. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO THE ROADWAY DITCHES, SEWERS, CULVERTS OR OTHER DRAINAGE COURSES
SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.	IS NOT ACCEPTABLE. 7. THE CONTRACTOR SHALL IMPLEMENT THIS PLAN, INCLUDING CONSTRUCTION AND MAINTENANCE.
7. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.	<ul> <li>8. THE OWNER IS RESPONSIBLE TO INSURE THAT THE CONTRACTOR IS PERFORMING THE WORK AS DETAILED IN THIS PLAN.</li> <li>9. THE OWNER IS RESPONSIBLE FOR CONDUCTING INSPECTIONS DURING CONSTRUCTION ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT AND</li> </ul>
8. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAPS(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H: 1V OR FLATTER.	RECORDING ANY DEFICIENCIES THAT MAY BE FOUND IN A LOG WHICH WILL BE MADE AVAILABLE UPON REQUEST. 10. THE CONTRACTOR SHALL PERMIT ALL OFFICIAL REPRESENTATIVES FROM PADEP AND THE CENTRE COUNTY CONSERVATION DISTRICT ON SITE TO INSPECT THE EROSION CONTROLS INSTALLED FOR THIS PROJECT. ALL DEFICIENCIES IN THE CONTROLS MUST BE CORRECTED IMMEDIATELY.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND	11. ALL TEMPORARY CONTROLS SHALL BE MAINTAINED AS FOLLOWS:
SEDIMENT POLLUTION AND NOTIFY THE CENTRE COUNTY CONSERVATION DISTRICT AND/OR THE DEP REGIONAL OFFICE. 10. ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR	<ul> <li>A. <u>ROCK CONSTRUCTION ENTRANCE MAINTENANCE:</u></li> <li>1. THE THICKNESS OF THE ROCK CONSTRUCTION ENTRANCE SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL WILL BE MAINTAINED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS, WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE. WASHING THE ROADWAY WITH WATER IS NOT ACCEPTABLE.</li> </ul>
WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE. 11. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE PADEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.	<ul> <li>B. <u>COMPOST FILTER SOCK MAINTENANCE:</u></li> <li>1. THE COMPOST FILTER SOCK INSTALLATION SHOULD BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT.</li> </ul>
12. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.	2. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE COMPOST FILTER SOCK FUNCTIONAL. IN ALL CASES, REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE COMPOST FILTER SOCK.
13. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS, OR MODIFICATIONS OF	<ul> <li>JAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.</li> <li>ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING COMPOST FILTER SOCK DUE TO WEATHERING.</li> </ul>
14. A LOG SHOWING DATES THAT E&S BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL	C. ROCK FILTER MAINTENANCE
BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION. 15. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK	<ol> <li>SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.</li> <li>ROCK FILTERS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. ANY DAMAGE IDENTIFIED SHALL BE REPAIRED WITHIN 24 HOURS</li> </ol>
DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEPT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER. 16. ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED IN THE PLAN.	OF THE INSPECTION. D. EROSION CONTROL BLANKETS MAINTENANCE
17. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES – 6 TO 12 INCHES ON COMPACTED SOILS – PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 6 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND	1. BLANKETED AREAS SHALL BE INSPECTED WEEKLY OR AFTER ANY RAINFALL EVENT UNTIL A MINIMUM UNIFORM 70% COVERAGE OF EROSION RESISTANT PERENNIAL VEGETATION IS ESTABLISHED.
MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. 18. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR	<ol> <li>DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN FOUR (4) CALENDAR DAYS.</li> <li>E. <u>CONCRETE WASHOUT STRUCTURES MAINTENANCE</u></li> <li>CONCRETE WASHOUT STRUCTURES SHALL BE INSPECTED DAILY.</li> </ol>
CODES. 19. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.	2. DAMAGED OR LEAKING STRUCTURES SHALL BE DE-ACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
20. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.	3. ACCUMULATED MATERIALS SHALL BE REMOVED WHEN THEY REACH 50% CAPACITY.
21. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. 22. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.	<ul> <li>PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.</li> <li>F. INLET PROTECTION MAINTENANCE</li> </ul>
23. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.	1. THE INLET PROTECTION SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. DAMAGE OR CLOGGED BAGS SHALL BE REPLACED IMMEDIATELY.
24. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.	<ol> <li>ANY DAMAGED / CLOGGED FILTER BAG OR THE SEDIMENT REMOVED FROM THE BAG SHALL BE PROPERLY DISPOSED.</li> <li>BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN 1/2 FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET.</li> </ol>
25. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB-AREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.	<ol> <li>A SUPPLY OF EXTRA FILTER BAGS SHALL BE KEPT ON SITE.</li> <li>INLET PROTECTION SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM CONTRIBUTING AREAS HAVE REACHED PERMANENT VEGETATIVE STABILIZATION OR HAVE BEEN STRUCTURALLY STABILIZED.</li> </ol>
26. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.	<b>G. <u>PUMPED WATER FILTER BAG MAINTENANCE</u></b> 1. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED.
27. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.	2. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
28. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE CENTRE COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.	<ul> <li>BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.</li> <li>FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEMS ARE DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE</li> </ul>
29. AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID RE-VEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE	PROBLEM IS CORRECTED. H. <u>SEDIMENT BASIN MAINTENANCE</u>
DONE ONLY DURING THE GERMINATING SEASON. 30. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR	1. INSPECT ALL SEDIMENT BASINS ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. A CLEAN OUT STAKE SHALL BE PLACED NEAR THE CENTER OF EACH BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED THE CLEAN OUT ELEVATION ON THE STAKE AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS. DISPOSE OF MATERIALS REMOVED FROM THE BASIN IN THE MANNER DESCRIBED IN THE ESC PLAN.
OPERATOR SHALL CONTACT THE CENTRE COUNTY CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION. 31. FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL	2. EMBANKMENTS SHOULD BE MAINTAINED WITH A GRASSY VEGETATIVE COVER, FREE OF BRUSH AND TREES.
PENALTIES BEING INSTITUTED BY THE PADEP AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.	<ul> <li>BASIN EMBANKMENTS, SPILLWAYS, AND OUTLETS SHALL BE INSPECTED FOR EROSION, PIPING AND SETTLEMENT. ANY NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY.</li> <li>CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND</li> </ul>
32. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED IN THE PLAN. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.	<ol> <li>CLOGGED OR DAMAGED SPILLWAYS SHALL BE REPAIRED IMMEDIATELY. TRASH AND OTHER DEBRIS SHALL BE REMOVED FROM THE BASIN AND RISER AS NECESSARY.</li> <li>THE DEWATERING SKIMMER SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT.</li> </ol>
33. ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.	6. ANY MALFUNCTIONING SKIMMER SHALL BE REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION.
<ul> <li>34. CHANNELS HAVING RIPRAP, RENO MATTRESS, OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS</li> <li>WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING.</li> <li>35. BIODEGRADABLE DOUBLE NET EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES GREATER THAN 3H:1V, ALL CHANNEL SIDES</li> </ul>	7. ICE OR SEDIMENT BUILDUP AROUND THE PRINCIPAL SPILLWAY SHALL BE REMOVED SO AS TO ALLOW THE SKIMMER TO RESPOND TO FLUCTUATING WATER ELEVATIONS.
AND BOTTOMS AND IN ALL DISTURBED AREAS WITHIN 50 FEET OF WATER OF THE COMMONWEALTH. 36. MULCH APPLIED TO PERMANENTLY STABILIZED AREAS IS TO BE MECHANICALLY CRIMPED TO PREVENT BLOW OFF AND LOSS OF MULCH FROM	EROSION AND SEDIMENT CONTROL CRITICAL STAGES OF CONSTRUCTION
RAINFALL. IN THE EVENT THAT MECHANICAL CRIMPING IS INEFFECTIVE, THE MULCH SHALL BE ANCHORED BY A NON-TOXIC BINDING EMULSION APPLIED TO THE MULCH AT THE MANUFACTURERS RECOMMENDED RATE. MANUFACTURERS INFORMATION MUST BE PROVIDED TO THE ENGINEER TO VERIFY THAT THE COMPONENTS OF THE EMULSION ARE NON-TOXIC TO VEGETATION AND ANIMAL SPECIES. 37. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES & WOODY DEBRIS, ACCUMULATED SEDIMENT, AND	<ol> <li>A LICENSED PROFESSIONAL OR HIS DESIGNEE SHALL BE PRESENT DURING THE CONSTRUCTION OF THE SEDIMENT BASIN TO ENSURE THE COMPACTION OF EXISTING SOILS IS MINIMIZED. A LICENSED PROFESSIONAL OR HIS DESIGNEE SHALL ALSO CONDUCT AN INSPECTION OF THE EROSION AND SEDIMENT CONTROLS TO ENSURE THAT THE CONTROLS ARE INSTALLED PROPERLY AND IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.</li> </ol>
CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH. 38. ANY UNDERGROUND UTILITIES RUNNING ACROSS/ THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED	2. A LICENSED PROFESSIONAL OR HIS DESIGNEE SHALL BE PRESENT DURING THE CONVERSION OF THE SEDIMENT BASIN TO A STORMWATER MANAGEMENT BASIN TO ENSURE THAT THE PROPER STEPS ARE TAKEN TO COMPLETE THE CONVERSION.
AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL.	3. RECORD DRAWINGS WILL BE CERTIFIED AND PROVIDED UPON CONSTRUCTION COMPLETION. PER TITLE 25 PA CODE \$, CHAPTER 102.8L, THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED
CHANNEL FLOW AND/OR PREVENT GOOD LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIALLY OVER-EXCAVATED TO ALLOW FOR THE PLACEMENT OF TOPSOIL.	PROFESSIONAL, WHICH READS THE FOLLOWING:
40. SEDIMENT BASINS/TRAPS SHALL BE KEPT FREE OF ALL TRASH, CONCRETE WASH WATER AND OTHER DEBRIS THAT POSE THE POTENTIAL FOR CLOGGING THE BASIN/TRAP OUTLET STRUCTURES AND/OR POSE THE POTENTIAL FOR POLLUTION TO WATERS OF THE COMMONWEALTH. WHEN SEDIMENT HAS ACCUMULATED TO THE CLEAN OUT ELEVATION ON ANY STAKE, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE ENTIRE TRAP/BASIN BOTTOM. ANY SEDIMENT REMOVED FROM TRAPS, BASINS OR THE BMP'S SHALL BE RETURNED TO UPSLOPE AREAS AND INCORPORATED INTO THE SITE GRADING.	"IBEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."
41. APPROVAL OF THE USE OF SKIMMER(S) DOES NOT APPROVE USE OF ANY SKIMMER(S) IN VIOLATION OF ANY PATENT, PATENT RIGHTS, AND/OR PATENT LAWS.	
42. SEDIMENT BASINS MUST BE PROTECTED FROM UNAUTHORIZED ACTS OF THIRD PARTIES. 43. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE	
43. ANY DAMAGE THAT OCCURS IN WHOLE OR IN PART AS A RESULT OF BASIN OR TRAP DISCHARGE SHALL BE IMMEDIATELY REPAIRED BY THE PERMITEE IN A PERMANENT MANNER SATISFACTORY TO THE MUNICIPALITY, CENTRE COUNTY CONSERVATION DISTRICT AND THE OWNER OF THE DAMAGED PROPERTY.	
44. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO	

44. UPON REQUEST, THE APPLICANT OR HIS CONTRACTOR SHALL PROVIDE AN AS-BUILT (RECORD DRAWING) FOR ANY SEDIMENT BASIN OR TRAP TO THE MUNICIPAL INSPECTOR, CENTRE COUNTY CONSERVATION DISTRICT, OR THE PA DEP.

## ND AFTER EACH THEY WERE DESIGNED

- AGAIN WITH NEW RACTOR SHALL
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- CONSTRUCTION AREA
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- DISTRICT ON SITE TO IMMEDIATELY.

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- ORMWATER
- R 102.8L, THE FROM A LICENSED
- § 4904 TO THE THE AS-BUILT NS OF THE THE APPROVED

- EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE:
- A. ALL EARTH DISTURBANCE AND CONSTRUCTION ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE DRAWINGS. DEVIATION FROM THIS SEQUENCE MUST BE APPROVED BY THE ENGINEER, THE CENTRE COUNTY CONSERVATION DISTRICT AND/OR THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP. EXCEPT AS NOTED.
- B. A PRE-CONSTRUCTION MEETING SHALL BE HELD AND NOTIFICATION MUST BE PROVIDED TO THE ENGINEER PRIOR TO THE ISSUANCE OF NOTICE TO PROCEED WITH CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE ENGINEER, OWNER AND THE CENTRE COUNTY CONSERVATION DISTRICT AT LEAST TEN (10) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO SCHEDULE THE MEETING. THE CONTRACTOR MAY ALSO BE REQUIRED BY THE STATE COLLEGE BOROUGH WATER AUTHORITY TO BE LISTED AS A CO-PERMITTEE ON SOME PERMITS.
- C. AT LEAST THREE (3) WORKING DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA THAT WAS PREVIOUSLY UNMARKED, NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM FOR THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES. THE LIMITS OF DISTURBANCE (LOD), WATERS OF THE COMMONWEALTH AND ANY OTHER SENSITIVE ENVIRONMENTAL FEATURES SHALL ALSO BE CLEARLY MARKED AND DELINEATED IN THE FIELD PRIOR TO THE BEGINNING OF ANY EARTH DISTURBANCE ACTIVITY.
- D. AREAS TO BE PROTECTED, WATERS OF THE COMMONWEALTH AND ANY OTHER SENSITIVE ENVIRONMENTAL FEATURES SHALL ALSO BE CLEARLY MARKED AND DELINEATED IN THE FIELD PRIOR TO THE BEGINNING OF ANY EARTH DISTURBANCE ACTIVITY. ANY AREA THAT IS LEFT UNDISTURBED FOR FOUR (4) DAYS OR GREATER SHALL BE TEMPORARILY STABILIZED UNTIL GRADING OPERATIONS RE-COMMENCE. EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES GREATER THAN 3H:1V AND IN ALL DISTURBED AREAS WITHIN 100 FEET OF WATERS OF THE COMMONWEALTH. AREAS WITHIN 100 FEET OF WATERS OF THE COMMONWEALTH SHALL BE PERMANENTLY STABILIZED WITH SEED AND EROSION CONTROL MATTING IMMEDIATELY UPON REACHING FINAL GRADE.
- E. INSTALL ROCK CONSTRUCTION ENTRANCE (RCE) AT THE LOCATION SHOWN ON THE APPROVED ESC PLAN DRAWINGS. CLEAR AND GRUB THE AREA AS NECESSARY TO INSTALL THE PERIMETER SEDIMENT CONTROLS (COMPOST FILTER SOCKS, ETC.) FOR THE PROPOSED CONSTRUCTION ACCESS ROAD. INSTALL COMPOST FILTER SOCKS AS SHOWN ON THE APPROVED ESC PLAN DRAWINGS. AFTER INSTALLATION OF THE PERIMETER SEDIMENT CONTROLS, NOTIFY THE CENTRE COUNTY CONSERVATION DISTRICT AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY FURTHER CONSTRUCTION TO PERFORM AN INSPECTION OF THE LOCATION AND CONSTRUCTION OF THE PERIMETER SEDIMENT CONTROLS. NO CONSTRUCTION ACTIVITIES MAY BE PERFORMED UNTIL AUTHORIZATION TO PROCEED WITH CONSTRUCTION ACTIVITIES IS PROVIDED TO THE CONTRACTOR BY A REPRESENTATIVE FROM THE CENTRE COUNTY CONSERVATION DISTRICT.
- F. INSTALL GRAVEL CONSTRUCTION ACCESS ROAD FROM SOUTH NIXON ROAD TO THE TREATMENT FACILITY SITE. TREE CLEARING OR VEGETATION REMOVAL FOR THE INSTALLATION OF THE ACCESS ROAD SHALL BE KEPT TO THE MINIMUM NECESSARY FOR ROAD INSTALLATION. UPON REACHING THE LIMITS OF THE DOUBLE 18" HDPE CULVERT, INSTALL THE CULVERTS AND PROPOSED BYPASS CHANNEL, BYPASS STORM DRAIN SYSTEM AND OUTFALL AS INDICATED ON THE APPROVED EROSION AND SEDIMENT CONTROL (ESC) PLAN DRAWINGS. IMMEDIATELY VEGETATIVELY STABILIZE ALL AREAS DISTURBED FOR THE CONSTRUCTION BYPASS. APPLY BIODEGRADABLE DOUBLE-NET EROSION CONTROL MATTING OR RIP-RAP AS APPLICABLE.
- G. AFTER CONSTRUCTION OF THE BYPASS SYSTEM, CLEAR AND GRUB THE AREAS NECESSARY TO INSTALL THE PERIMETER SEDIMENT CONTROLS (COMPOST FILTER SOCKS, ETC.) BELOW THE PROPOSED SEDIMENT BASIN. UPON COMPLETION OF THE PERIMETER CONTROLS, NOTIFY THE CENTRE COUNTY CONSERVATION DISTRICT AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY FURTHER CONSTRUCTION TO PERFORM AN INSPECTION OF THE LOCATION AND CONSTRUCTION OF THE PERIMETER SEDIMENT CONTROLS. NO CONSTRUCTION ACTIVITIES MAY BE PERFORMED UNTIL AUTHORIZATION TO PROCEED WITH CONSTRUCTION ACTIVITIES IS PROVIDED TO THE CONTRACTOR BY A REPRESENTATIVE FROM THE CENTRE COUNTY CONSERVATION DISTRICT.
- H. UPON APPROVAL OF THE CONSERVATION DISTRICT, BEGIN CONSTRUCTION OF THE SEDIMENT BASIN EMBANKMENT AND OUTFALL AS IDENTIFIED ON THE APPROVED ESC PLAN DRAWINGS. EXTREME CARE IS TO BE TAKEN BY THE CONTRACTOR DURING EXCAVATION. WATER INFILTRATION INTO THE SOILS AND BEDROCK AT THE SITE WILL RESULT IN PIPING OF THE SOILS INTO THE FRACTURES IN THE UNDERLYING CARBONATE BEDROCK AND EVENTUALLY LEAD TO THE DEVELOPMENT OF SINKHOLES OR SUBSIDENCE FEATURES. THE POTENTIAL FOR SINKHOLE FORMATION WILL BE ESPECIALLY HIGH DURING CONSTRUCTION ACTIVITIES, THEREFORE, EVERY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO PREVENT THE ACCUMULATION AND INFILTRATION OF STORMWATER RUNOFF IN THE VICINITY OF THE SEDIMENT BASIN. IN THE EVENT THAT SINKHOLES DEVELOP DURING OR AFTER CONSTRUCTION, A GEOTECHNICAL ENGINEER SHOULD BE CONSULTED PRIOR TO ANY FURTHER EXCAVATION OR DISTURBANCE. INSTALL SEDIMENT SKIMMER, SKIMMER GUIDE POLES, LANDING BERM AND BAFFLES UPON COMPLETION OF THE RISER STRUCTURE.
- I. UPON COMPLETION OF THE BASIN EMBANKMENT, INSTALL ANY REMAINING PERIMETER EROSION AND SEDIMENT CONTROLS AND BEGIN EARTHWORK OPERATIONS. REMOVE ANY UNSUITABLE SUBGRADE MATERIALS AS DIRECTED BY THE GEOTECHNICAL REPORT AND DISPOSE OF THE SPOIL AS DIRECTED ON THE ESC PLAN DRAWINGS. THE POTENTIAL FOR SINKHOLE FORMATION WILL BE ESPECIALLY HIGH DURING CONSTRUCTION ACTIVITIES, THEREFORE, EVERY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO PREVENT THE ACCUMULATION AND INFILTRATION OF STORMWATER RUNOFF DURING EARTHWORK.
- J. BEGIN CONSTRUCTION OF TREATMENT FACILITY FOUNDATION PILES. UPON COMPLETION OF THE PILES, CONSTRUCT TREATMENT FACILITY FOUNDATION, GRANULATED ACTIVATE CARBON (GAC) WASTE TANK, SEPTIC HOLDING TANK, SITE PIPING AND DISTRIBUTION SYSTEM INTERCONNECTIONS, ELECTRICAL CONDUITS AND STORM DRAINAGE PIPING. BACKFILL THE FOUNDATION AND CONTINUE THE ROUGH GRADING OF THE SITE. UPON REACHING THE FINISHED FLOOR ELEVATION, TEMPORARILY STABILIZE ALL DISTURBED AREAS WITH SEED, MULCH AND AS APPLICABLE, DOUBLE-NET EROSION CONTROL MATTING. NO VERTICAL CONSTRUCTION MAY CONTINUE UNTIL ALL DISTURBED AREAS ARE TEMPORARILY STABILIZED. ADDITIONALLY, DUST CONTROL SHALL BE PROVIDED ON AS NEEDED BASIS THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
- K. CONTINUE THE CONSTRUCTION OF THE TREATMENT FACILITY, SOLIDS DRYING BEDS, NATURAL GAS PAD AND TRANSFORMER PAD. ALL WASTE MATERIALS GENERATED DURING ANY CONSTRUCTION SHALL BE SORTED IN A DEDICATED AREA ON THE SITE. DISPOSE OF THE WASTE MATERIAL AS DIRECTED ON THE ESC PLAN DRAWINGS.
- L. UPON SUBSTANTIAL COMPLETION OF THE TREATMENT FACILITY. CONSTRUCT THE BITUMINOUS PAVED AREAS ACCESS ROAD FROM THE EXISTING NIXON WELL FIELD SITE. THE PAVEMENT IS TO BE BROUGHT TO A BITUMINOUS BASE COURSE CONDITION UNTIL THE FINAL COMPLETION OF CONSTRUCTION. REMOVE THE TEMPORARY ACCESS ROAD AND 18" HDPE CULVERTS LOCATED ON TREATMENT FACILITY SITE. THE REMAINDER OF THE GRAVEL CONSTRUCTION ACCESS ROAD IS TO REMAIN IN PLACE.
- M. INSTALL ANY REQUIRED LANDSCAPING AND FENCING. PERFORM ANY NECESSARY FINE GRADING AT THIS TIME. UPON COMPLETION, APPLY BITUMINOUS TACK COAT TO ALL PAVED SURFACES AND APPLY BITUMINOUS WEARING COURSE.
- N. REMOVE REMAINING SEDIMENT AND EROSION CONTROLS AFTER UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL VEGETATION HAS BEEN ESTABLISHED AND APPROVAL TO REMOVE THE CONTROLS HAS BEEN PROVIDED BY THE CENTRE COUNTY CONSERVATION DISTRICT. REMOVE ANY ACCUMULATED SEDIMENT IN THE CHANNELS AND STORM DRAINS. BEGIN THE CONVERSION OF THE SEDIMENT BASIN FOR USE AS A DETENTION BASIN. REMOVE THE SEDIMENT SKIMMER AND GUIDE POLES. AGGREGATE LANDING BERM AND ANY BAFFLES. INSTALL TRASH RACKS AND PLACE INLET FRAME AND GRATE ON TOP OF THE CONSTRUCTED RISER. THE SEDIMENT WITHIN THE SEDIMENT BASIN IS TO BE REMOVED AND THE BASIN IS TO BE RESTORED TO THE LINES AND GRADES INDICATED ON THE APPROVED ESC PLAN DRAWINGS. THE CONTRACTOR IS TO REMOVE THE SEDIMENT AND DISPOSE OF IT PROPERLY ONSITE OR AT A SITE WITH AN APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- O. PERMANENTLY STABILIZE ALL AREAS DISTURBED DURING THE REMOVAL OF THE PERIMETER CONTROLS. ADDITIONAL SEED AND MULCH, AND IF APPLICABLE, EROSION CONTROL MATTING ARE TO BE PLACED AS NECESSARY TO PROMOTE REVEGETATION OF ANY AREAS WHICH ARE DISTURBED DUE TO REMOVAL OF CONTROLS OR CONVERSION OF THE SEDIMENT BASIN.
- NOTE: DUE TO THE SCOPE OF CONSTRUCTION, ITEMS J. THROUGH L. MAY BE PERFORMED CONCURRENTLY AND ARE NOT REQUIRED TO BE PERFORMED IN THE ORDER LISTED IN THE INDIVIDUAL SEQUENCE ITEM.

# IMPORTING FILL MATERIAL

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND DETERMINE THAT ALL FILL IMPORTED MEETS PA DEP'S DEFINITION OF CLEAN FILL.
- 2. CLEAN FILL IS DEFINED AS : UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)
- 3. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS.

## LANDSCAPE RESTORATION SPECIFICATIONS SITE PREPARATION AND PLANTING

- ALL WEEDS OR EXISTING VEGETATION MUST BE ELIMINATED PRIOR TO SEEDING.
- 2. PERENNIAL WEEDS MAY REQUIRE YEAR LONG SMOTHERING, REPEATED SPRAYINGS WITH HERBICIDES, OR REPEATED TILLAGE WITH EQUIPMENT THAT CAN UPROOT AND KILL PERENNIAL WEEDS.
- 3. PLANTING IN JULY AND AUGUST IS GENERALLY NOT RECOMMENDED DUE TO THE FREQUENCY OF DROUGHT DURING THIS TIME. 4. SEEDING CAN BE ACCOMPLISHED BY A VARIETY OF METHODS: NO-TILL SEEDER FOR MULTI-ACRE PLANTING: BROADCAST SEEDER: HAND BROADCAST FOR SMALL AREAS OF ONE ACRE OR LESS.
- 5. SEED QUALITY IS CRITICAL AND A SEED MIX SHOULD BE USED WITH A MINIMUM PERCENTAGE OF NON-SEED PLANT PARTS.
- MAINTENANCE 1. IN THE FIRST YEAR, WEEDS MUST BE CAREFULLY CONTROLLED AND CONSISTENTLY MOWED BACK TO 4-6 INCHES TALL WHEN THEY REACH 12 INCHES IN HEIGHT. IN THE SECOND YEAR, WEEDS SHOULD CONTINUE TO BE MONITORED AND MOWED AND CHIZOMATOUS WEEDS SHOULD BE HAND TREATED WITH HERBICIDE.
- 2. WEEDS SHOULD NOT BE SPRAYED WITH HERBICIDE AS THE DRIFT FROM THE SPRAY MAY KILL LARGE PATCHES OF DESIRABLE PLANTS, ALLOWING WEEDS TO MOVE INTO THESE NEW OPEN AREAS.
- 3. IN THE BEGINNING OF THE THIRD SEASON, THE AREA SHOULD BE BURNED OFF IN MID-SPRING. IF BURNING IS NOT POSSIBLE THE AREA SHOULD BE MOWED VERY CLOSELY TO THE GROUND INSTEAD, THE MOWED MATERIAL SHOULD BE REMOVED FROM THE SITE TO EXPOSE THE SOIL TO THE SUN. THIS HELPS ENCOURAGE RAPID SOIL WARMING WHICH FAVORS THE ESTABLISHMENT OF "WARM SEASON" PLANTS OVER "COOL SEASON" SEEDS.

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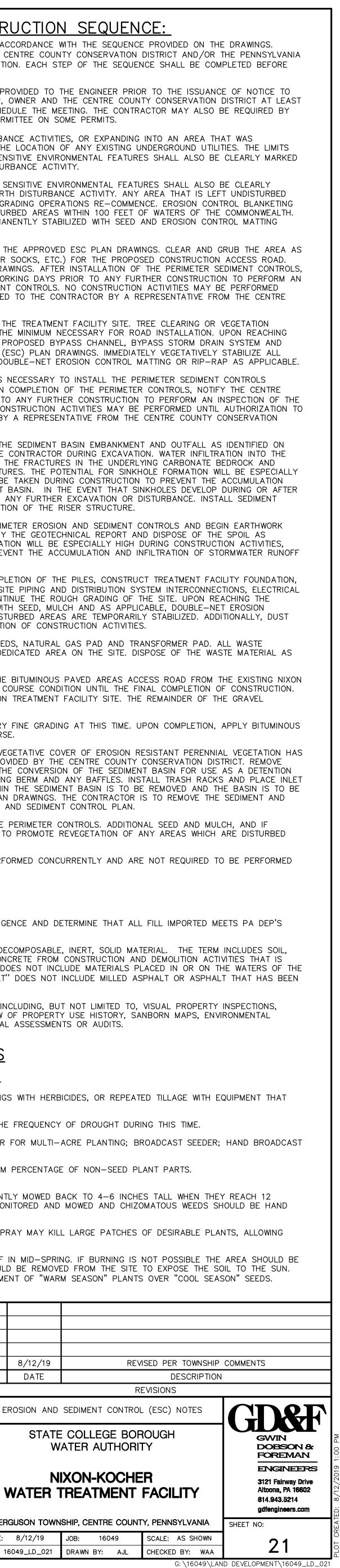
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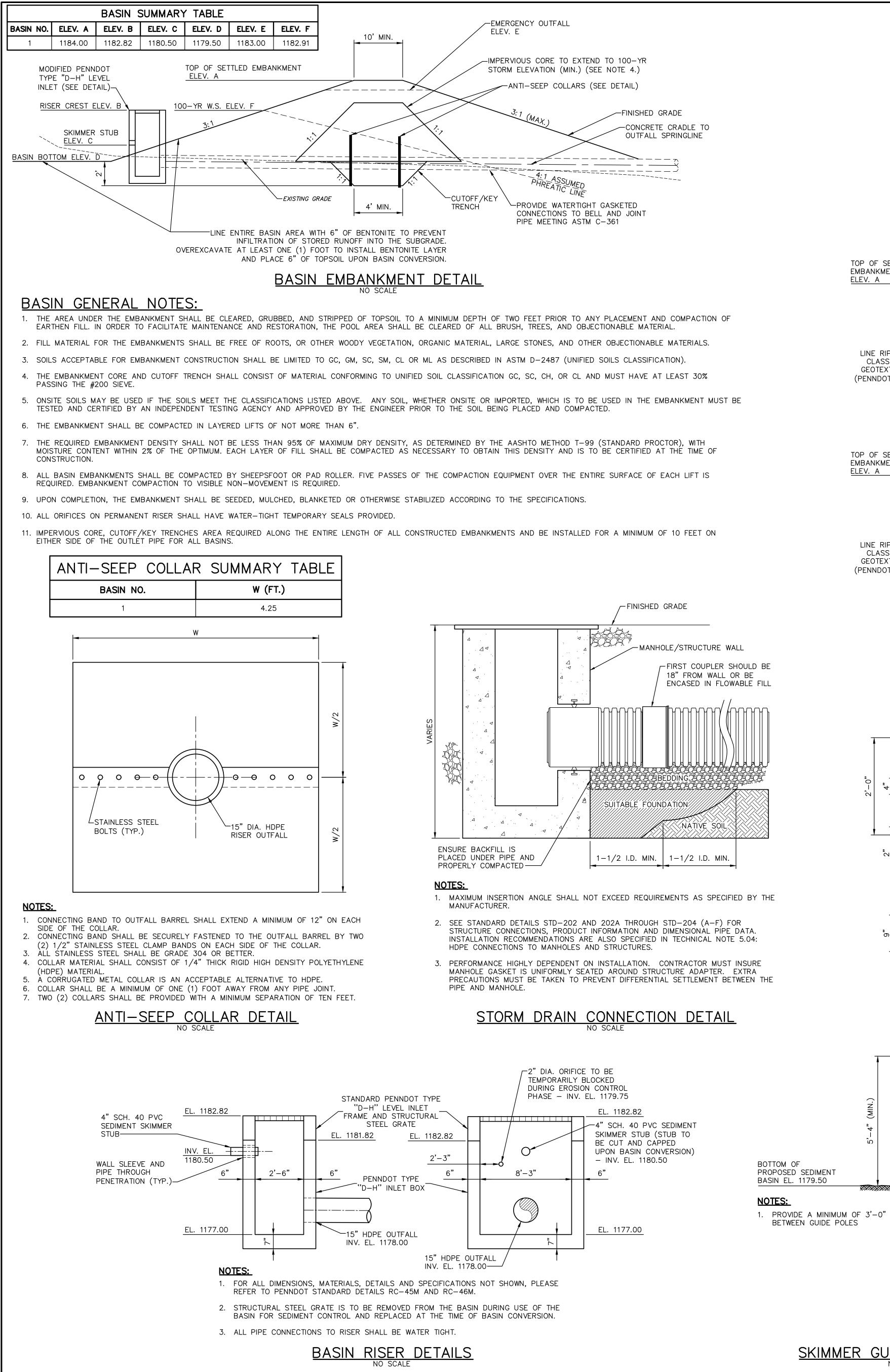
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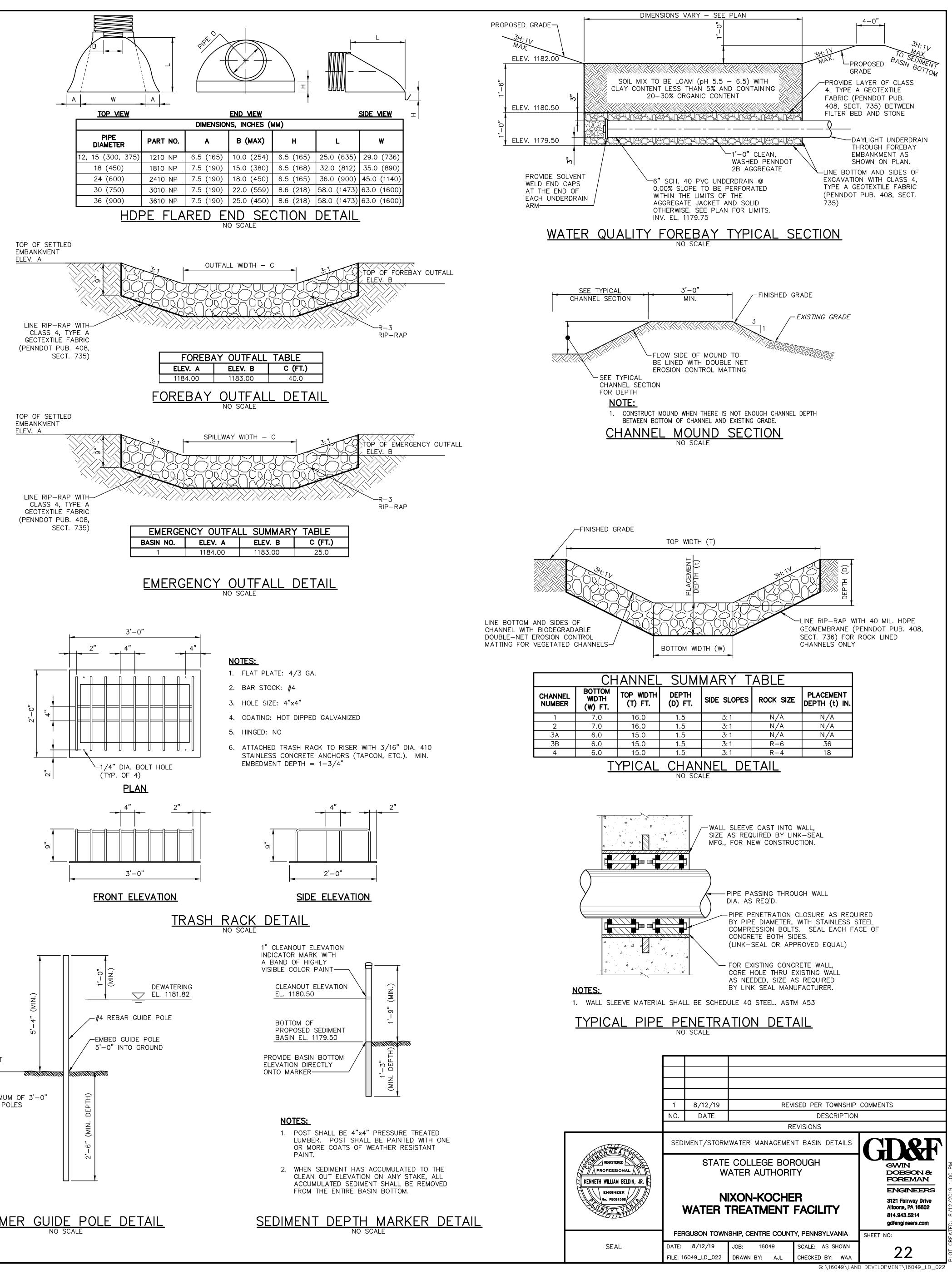
## STATE COLLEGE BOROUGH WATER AUTHORITY

# **NIXON-KOCHEF** WATER TREATMENT FACILITY

FERGUSON TOWN	SHIP, CENTRE COUNT	Y, PENNS
DATE: 8/12/19	JOB: 16049	SCALE:
FILE: 16049_LD_021	DRAWN BY: AJL	CHECKED







SKIMMER GUIDE POLE DETAIL

# LANDSCAPING GENERAL NOTES:

1. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.

2. THE CONTRACTOR SHALL REFER TO THE PLANT LIST FOR SEASONAL REQUIREMENTS AND OTHER RESTRICTIONS RELATED TO THE TIME OF PLANTING.

3. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON ALL DRAWINGS.

4. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.

5. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN FINISHED AND APPROVED BY THE PROJECT ENGINEER.

6. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE OWNER.

7. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS AND THE CONTRACT SPECIFICATIONS AND IN ACCORDANCE WITH THE "GUIDE TO PLANTING IN FERGUSON TOWNSHIP." 8. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.

9. ALL PLANTS SHALL BE BALLED AND WRAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED AT TIME OF PLANTING.

10. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE CONTAINER BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.

11. PLANT AT ABOUT THE SAME DEPTH, OR NOT TO EXCEED ONE-HALF INCH DEEPER THAN IT WAS IN THE NURSERY. USE THE ROOT COLLAR FOR DEPTH JUDGMENT. 12. INSTALL THE MAIN ROOTS NEARLY STRAIGHT AND SPREAD OUT, NOT DOUBLED, OR SHARPLY BENT.

13. INSTALL THE SOIL FIRMLY AROUND THE ROOTS. LEAVE NO AIR POCKETS.

14. INSTALL THE TREE IN AN UPRIGHT POSITION, AND HAVE IT NEARLY EVEN WITH THE GENERAL GROUND LEVEL, NOT SUNK IN A HOLE OR RAISED ON A MOUND.

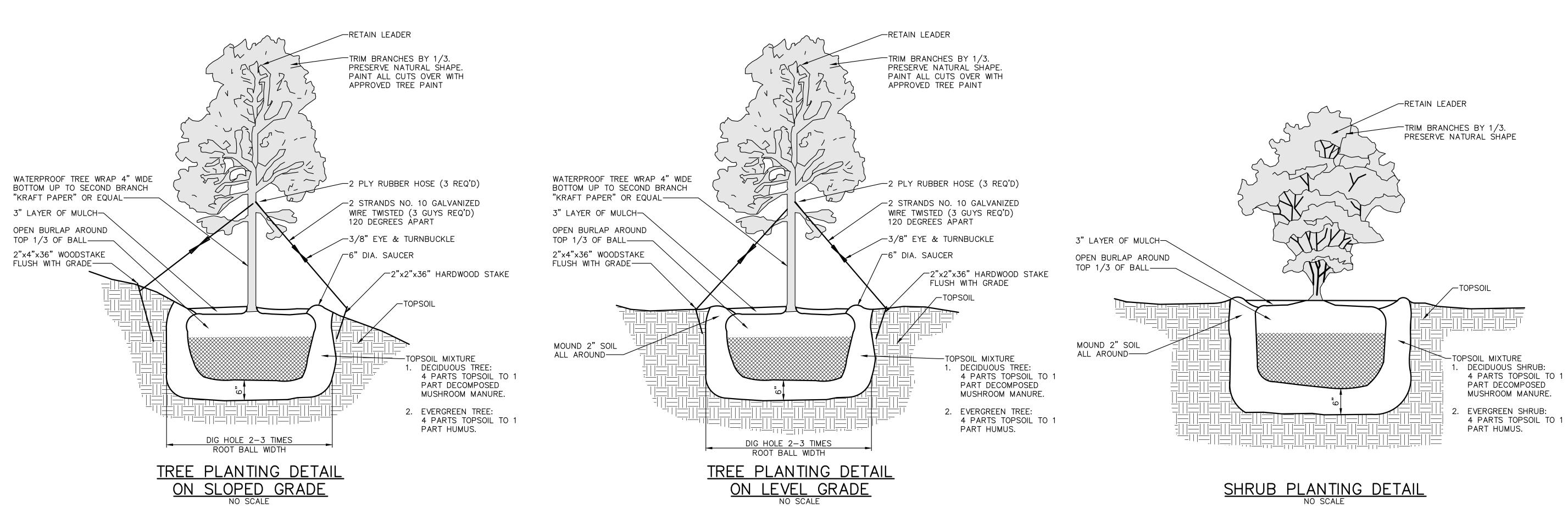
15. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.

17. THE CONTRACTOR SHALL PROVIDE LOAM FILL AS PER THE CONTRACT DOCUMENTS.

19. THE GENERAL CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

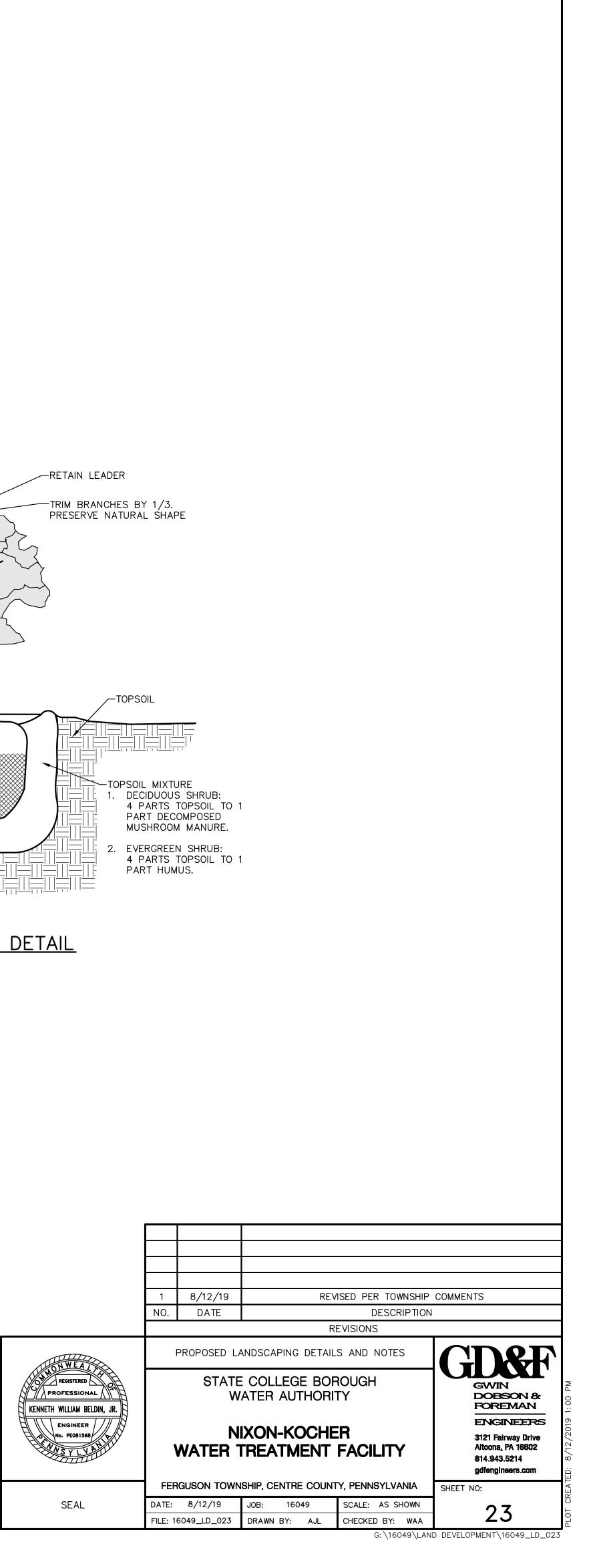
20. MULCH COLOR TO BE SELECTED BY THE OWNER. MINIMUM MULCH DIAMETER SHALL BE 6 FEET.

21. ALL TREES SHALL HAVE TEMPORARY TAGS IDENTIFYING SIZE, SPECIES AND SOURCE OF MATERIALS FIRMLY ATTACHED TO TRUNK.



16. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS AFTER PLANTING. IN TEMPERATE ZONES, ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT AT THE BEGINNING OF THEIR FIRST WINTER.

18. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24-HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN, IF NECESSARY, DURING THE FIRST GROWING SEASON.



- SHALL BE MAINTAINED AT THE SITE.
- CONSTRUCTED.
- SHALL RUN WITH THE PROPERTY.
- RESPONSIBILITIES, AS IS APPLICABLE.

# PCSM MAINTENANCE SCHEDULE

STORMWATER MANAGEMENT BEST MANAG	EN
WATER QUALITY FOREB	A
WET POND	
STORM DRAINS, INLETS AND N	1A
	тс
CHANNELS, ROCK SLOPE PROTECTION AND S	
	٦
NON-ROOFTOP DISCONNEC	.   .

# PCSM OPERATION AND MAINTENANCE (O&M) PLAN

A. PCSM OPERATION AND MAINTENANCE SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE ON THIS PLAN. ANY SEDIMENT THAT IS REMOVED SHALL BE PROPERLY DISPOSED OF ONSITE OR AT AN APPROVED OFFSITE LOCATION.

B. A LOG SHOWING THE DATES OF EACH INSPECTION, ANY DEFICIENCIES FOUND, CORRECTIVE ACTIONS TAKEN TO REMEDY THE DEFICIENCIES AND THE DATE THE DEFICIENCIES WERE CORRECTED

C. THIS PCSM O&M PLAN SHALL REMAIN IN EFFECT UNTIL SUCH TIME THE PROPERTY IS REDEVELOPED AND AN ALTERNATIVE SOURCE OF PROVIDING STORMWATER MANAGEMENT IS

D. THE PCSM O&M PLAN SHALL BE RECORDED AT THE CENTRE COUNTY RECORDER OF DEEDS AND

E. THE STATE COLLEGE BOROUGH WATER AUTHORITY (OWNER) OR THEIR DESIGNATED REPRESENTATIVE SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEMS, IN ACCORDANCE WITH THIS O&M PLAN, UNTIL SUCH TIME AS THE PROPERTY, OR ANY PORTION OF THE PROPERTY THAT CONTAINS A STORMWATER MANAGEMENT DEVICE, MEANS OF RUNOFF CONVEYANCE, ETC., IS SOLD OR TRANSFERRED TO ANOTHER PARTY, AT WHICH TIME SAID PARTY OR THEIR DESIGNEES SHALL ASSUME STORMWATER MANAGEMENT MAINTENANCE

AGEMENT PRACTICE (BMP)	INSPECTION FREQUENCY	MAINTENANCE REQUIREMENTS
	AFTER EACH RAINFALL OF 1.00 INCHES	REMOVE ANY LARGE DEBRIS OR TRASH. MOW ONLY AS APPROPRIATE FOR THE VEGETATIVE COVER SPECIES. THE VEGETATION ALONG THE SURFACE AND SIDES OF THE FOREBAY SHALL BE MAINTAINED IN GOOD CONDITION. ANY SIGNS OF EROSION WITHIN THE FOREBAY SIDE SLOPES OR BOTTOM SHALL BE RE-STABILIZED AS SOON AS IS POSSIBLE. SHORT TERM DOUBLE NET EROSION CONTROL MATTING AND AN APPROPRIATE SEED MIXTURE SHALL BE USED ON ALL STABILIZED AREAS UNTIL THE ERODED AREA HAS BEEN VEGETATIVELY RE-ESTABLISHED. TOPSOIL SHALL BE PLACED AS NECESSARY TO ESTABLISH THE ORIGINAL GRADE AND DIMENSION OF THE FOREBAY. IF IMPOUNDED RUNOFF DOES NOT DRAIN WITHIN 72 HOURS, PUMP ACCUMULATED RUNOFF THROUGH AN APPROPRIATE FILTER BAG TO A STABLE OUTFALL. REMOVE ANY ACCUMULATED SEDIMENT AND DISC OR OTHERWISE AERATE THE FOREBAY BOTTOM TO RESTORE INFILTRATION CAPACITY. RESTORE THE ORIGINAL CROSS SECTION OF THE BASIN AND SEED OR SOD THE DISTURBED AREAS TO RESTORE GROUND COVER. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE UNDERDRAIN SYSTEM. THE BOTTOM ON THE FOREBAY SHALL BE AERATED AND RESTORED AS DESCRIBED ABOVE EVERY FIVE YEARS, REGARDLESS OF WHETHER THE BASIN DRAINS IN LESS THAN 72 HOURS.
EBAY	OR GREATER IN A 24-HOUR PERIOD	WHETHER THE BASIN DRAINS IN LESS THAN 72 HOURS.
		REMOVE ANY LARGE DEBRIS OR TRASH. MOW ONLY AS APPROPRIATE FOR THE VEGETATIVE COVER SPECIES. THE VEGETATION ALONG THE SURFACE AND SIDES OF THE BASIN SHALL BE MAINTAINED IN GOOD CONDITION. ANY SIGNS OF EROSION WITHIN THE BASIN SIDE SLOPES OR BOTTOM SHALL BE RE-STABILIZED AS SOON AS IS POSSIBLE. SHORT TERM DOUBLE NET EROSION CONTROL MATTING AND AN APPROPRIATE SEED MIXTURE SHALL BE USED ON ALL STABILIZED AREAS UNTIL THE ERODED AREA HAS BEEN VEGETATIVELY RE-ESTABLISHED. TOPSOIL SHALL BE PLACED AS NECESSARY TO ESTABLISH THE ORIGINAL GRADE AND DIMENSION OF THE BASIN. RESTORE THE ORIGINAL CROSS SECTION OF THE BASIN AND SEED OR
	AFTER EACH RAINFALL OF 1.00 INCHES OR GREATER IN A 24-HOUR PERIOD	SOD THE DISTURBED AREAS TO RESTORE GROUND COVER. IF IMPOUNDED RUNOFF DOES NOT DRAIN WITHIN 72 HOURS, PUMP ACCUMULATED RUNOFF THROUGH AN APPROPRIATE FILTER BAG TO A STABLE OUTFALL. REMOVE ANY ACCUMULATED SEDIMENT AND INSPECT THE RISER, RISER OPENINGS AND OUTFALL BARREL FOR BLOCKAGE.
MANHOLES		STORM DRAINS, INLETS AND MANHOLES SHALL BE THOROUGHLY CLEANED AND INSPECTED FOR DAMAGE AT LEAST TWO TIMES PER YEAR. UPON DISCOVERY OF DAMAGE, APPROPRIATE REMEDIAL ACTION, UP TO AND INCLUDING REPLACEMENT
	EVERY 6 MONTHS	OF THE DAMAGED STRUCTURE, SHALL OCCUR IMMEDIATELY. REMOVE ANY LARGE DEBRIS OR TRASH. ANY DISPLACED RIP-RAP, GEOTEXTILE FABRIC, ETC. LOCATED IN THE CHANNELS, ROCK SLOPE PROTECTION AND OUTFALL APRONS SHALL BE RESTORED TO THE ORIGINAL DIMENSIONS AND LOCATIONS SHOWN ON THE RECORDED PLAN DRAWINGS. DETERIORATED OR TORN GEOTEXTILE FABRIC SHALL BE REPLACED IMMEDIATELY. ANY SIGNS OF EROSION WITHIN THE VEGETATED CHANNELS SHALL BE RE-STABILIZED AS SOON AS IS POSSIBLE. SHORT TERM DOUBLE NET EROSION CONTROL MATTING AND AN
STORM DRAIN OUTFALLS	AFTER EACH RAINFALL OF 1.00 INCHES OR GREATER IN A 24-HOUR PERIOD	APPROPRIATE SEED MIXTURE SHALL BE USED IN ALL CHANNELS UNTIL THE ERODED AREA HAS BEEN VEGETATIVELY RE-ESTABLISHED. MOW ONLY AS APPROPRIATE FOR THE VEGETATIVE COVER SPECIES. ANY SIGNS OF EROSION WITHIN THE DISCONNECT AREA SHALL BE RE-STABILIZED AS SOON AS IS POSSIBLE. IN THE EVENT THAT MAINTENANCE OF SUBSURFACE UTILITIES IS
ECT AREA	EVERY 6 MONTHS	NECESSARY, THE DISTURBED AREA SHALL BE STABILIZED WITH SHORT TERM DOUBLE NET EROSION CONTROL MATTING AND AN APPROPRIATE SEED MIXTURE IMMEDIATELY UPON TRENCH BACKFILL. THE STABILIZATION MEASURES SHALL REMAIN IN PLACE UNTIL THE ERODED AREA HAS BEEN VEGETATIVELY RE- ESTABLISHED.

- PROFESSIONAL, WHICH READS THE FOLLOWING:

# PCSM SEQUENCE OF CONSTRUCTION

- CENTRE COUNTY CONSERVATION DISTRICT.
- CONTROLS.
- BASIN TO A STORMWATER MANAGEMENT BASIN.
- DESCRIBED IN THE O&M PLAN.

# PCSM CRITICAL STAGES OF CONSTRUCTION

1. A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL BE PRESENT DURING THE CONVERSION OF THE SEDIMENT BASIN FOR POST-CONSTRUCTION STORMWATER MANAGEMENT PURPOSES TO ENSURE THAT THE PROPER ACTIONS ARE TAKEN TO COMPLETE THE CONVERSION.

2. RECORD DRAWINGS WILL BE CERTIFIED AND PROVIDED UPON CONSTRUCTION COMPLETION. PER TITLE 25 PA CODE §, CHAPTER 102.8L, THE PERMITTEE SHALL INCLUDE WITH THE NOTICE OF TERMINATION "RECORD DRAWINGS" WITH A FINAL CERTIFICATION STATEMENT FROM A LICENSED

"I \_\_\_\_\_ DO HEREBY CERTIFY PURSUANT TO THE PENALTIES OF 18 PA.C.S.A. § 4904 TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE ACCOMPANYING RECORD DRAWINGS ACCURATELY REFLECT THE AS-BUILT CONDITIONS, ARE TRUE AND CORRECT, AND ARE CONFORMANCE WITH CHAPTER 102 OF THE RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND THAT THE PROJECT SITE WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PCSM PLAN, ALL APPROVED PLAN CHANGES AND ACCEPTED CONSTRUCTION PRACTICES."

A. REMOVE ANY ACCUMULATED SEDIMENT IN THE CHANNELS AND STORM DRAINS. THE CONTRACTOR IS TO REMOVE THE SEDIMENT AND DISPOSE OF IT PROPERLY.

B. AFTER UNIFORM 70% VEGETATIVE COVER OF EROSION RESISTANT PERENNIAL VEGETATION HAS BEEN ESTABLISHED, REMOVE ANY REMAINING PERIMETER SEDIMENT AND EROSION CONTROLS. APPROVAL TO REMOVE THE CONTROLS MUST BE PROVIDED BY A REPRESENTATIVE OF THE

C. PERMANENTLY STABILIZE ALL AREAS DISTURBED DURING THE REMOVAL OF THE PERIMETER

D. CONVERT THE SEDIMENT BASIN TO A STORMWATER MANAGEMENT BASIN. ANY ACCUMULATED SEDIMENT WITHIN THE BASIN IS TO BE REMOVED AND DISPOSED OF PROPERLY. REMOVE THE SKIMMER, GUIDE RAILS AND AGGREGATE LANDING BERM. REMOVE ANY TEMPORARY ORIFICE BLOCKAGES AND PERMANENTLY BLOCK ANY ORIFICES IDENTIFIED ON THE PLANS WITH NON-SHRINK GROUT. CONSTRUCT THE WATER QUALITY FOREBAY EMBANKMENT AND UNDERDRAIN SYSTEM. UPON COMPLETION OF THE EMBANKMENT, CONSTRUCT THE AGGREGATE JACKET AROUND THE UNDERDRAIN AND INSTALL GEOTEXTILE FABRIC. PROVIDE APPROPRIATE FILTER BED SOIL MIXTURE TO THE LIMITS AND GRADES INDICATED ON THE PLAN DRAWINGS.

E. PERMANENTLY STABILIZE ALL AREAS DISTURBED DURING THE CONVERSION OF THE SEDIMENT

F. BEGIN POST-CONSTRUCTION STORMWATER MANAGEMENT OPERATIONS AND MAINTENANCE AS

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