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PROJECT 58-20-01

DATE: 4/10/2020

G001

202

DRAWINGS LIST

DESIGNED MWM

CHECKED MWM

NO. 1

BY MWM

DATE 5/12/2020

REVISIONS

ADDENDUM 2

ADDENDUM 3

MM 5/15/2020

LUCAS COUNTY

TOLL PLAZA 49

DESIGN AGENCY

PRIMEVA

540 White Pond Drive, Ste. E  
Akron, Ohio 44320  
(330) 664-1735

OHIO TURNPIKE

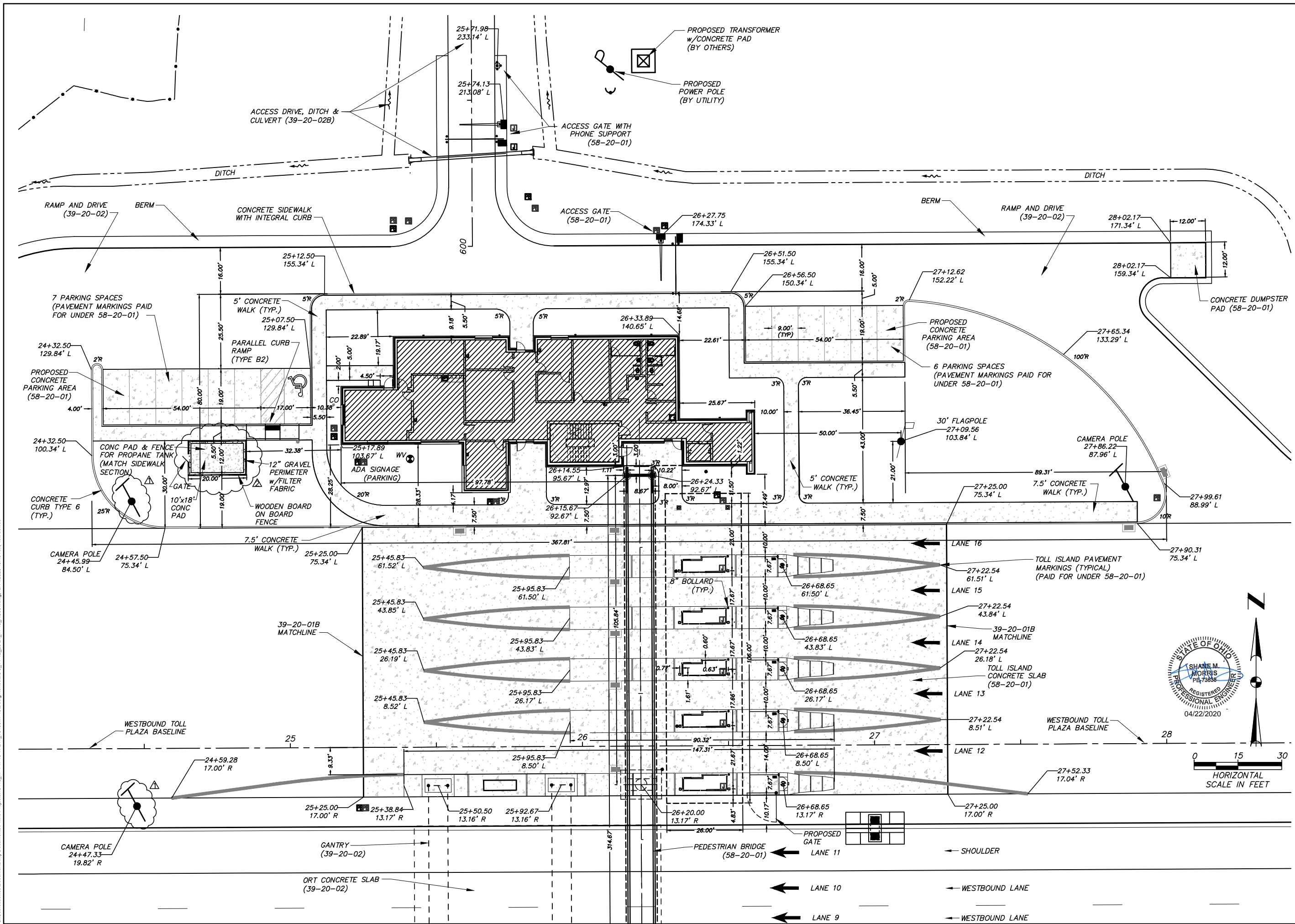
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE



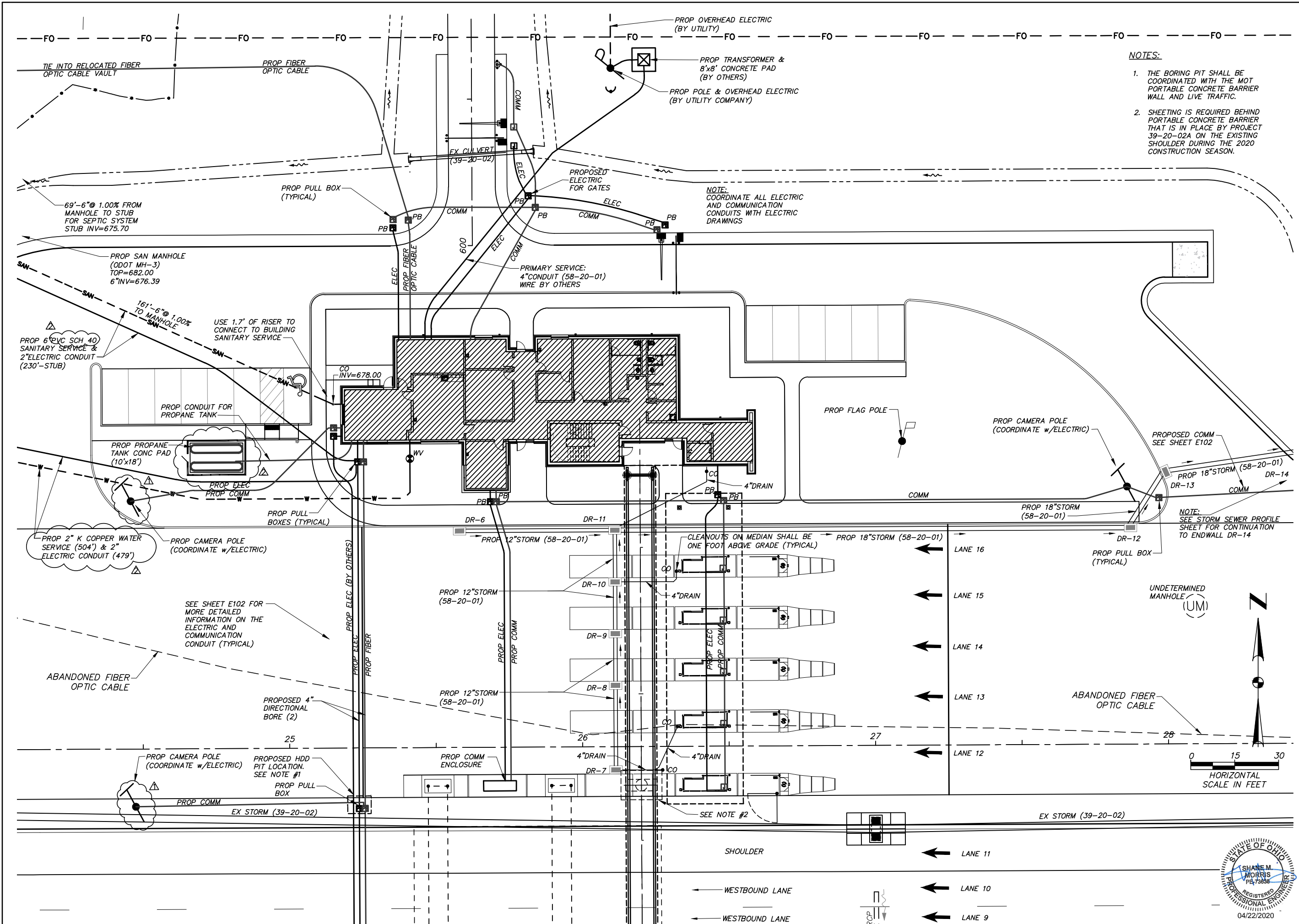


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PROJECT 58-20-01		SITE DIMENSION PLAN – NORTH SITE										DESIGN AGENCY	
DATE: 4/17/2020		LUCAS COUNTY											
C104		TOLL PLAZA 49										540 White Pond Drive, Ste. E Arcion, Ohio 44320 (330) 964-7755	
		DESIGNED	LHB/J	CHECKED	SMM	NO.		REVISIONS		BY	DATE		
		DRAWN		IN CHARGE		ADDENDUM NO.2		ADDENDUM NO.3		LHB/J	12MAY20		
		LHB/J		SMM		Δ		Δ		LHB/J	15MAY20		

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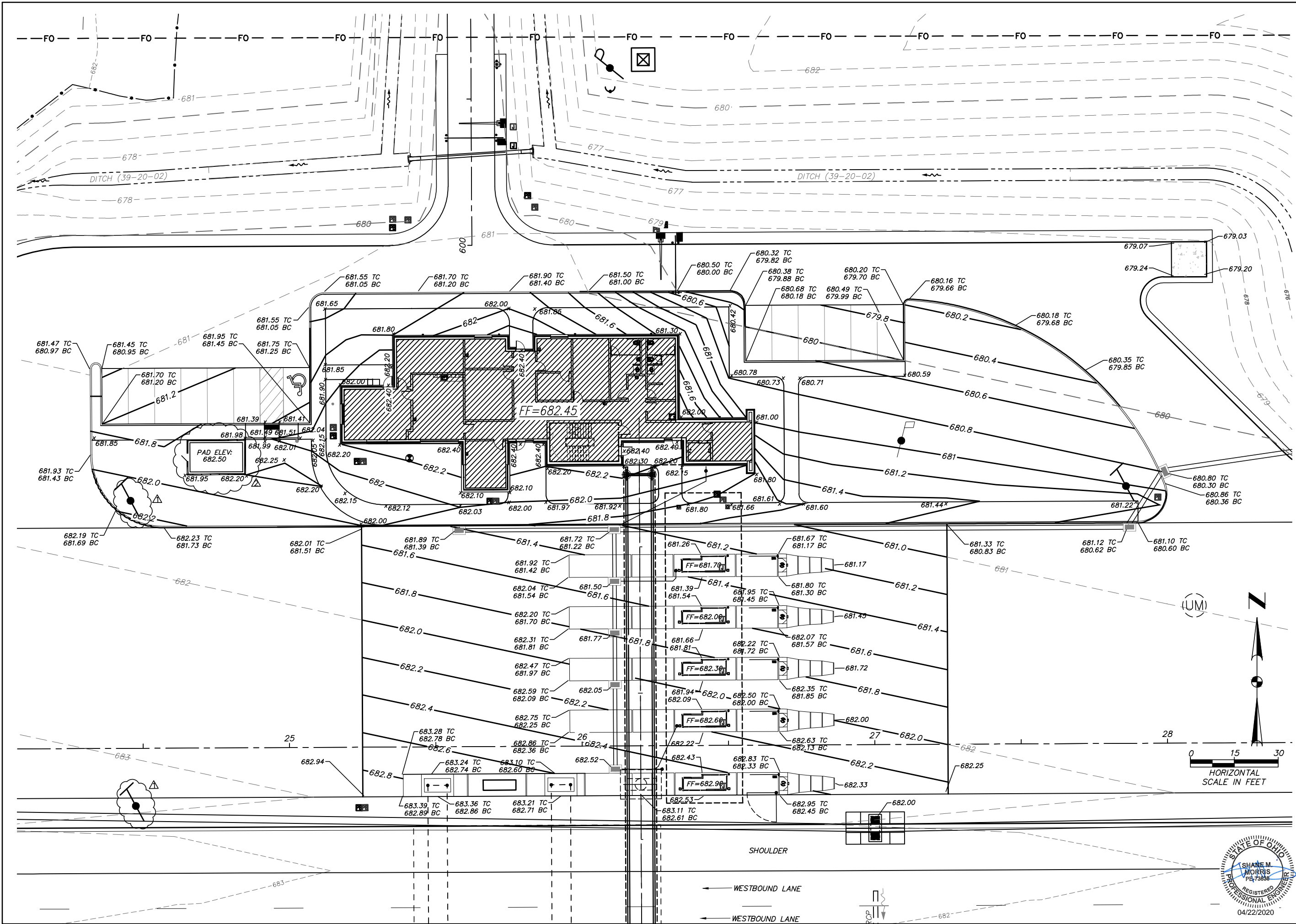
- NOTES:
1. THE BORING PIT SHALL BE COORDINATED WITH THE MOT PORTABLE CONCRETE BARRIER WALL AND LIVE TRAFFIC.
  2. SHEETING IS REQUIRED BEHIND PORTABLE CONCRETE BARRIER THAT IS IN PLACE BY PROJECT 39-20-02A ON THE EXISTING SHOULDER DURING THE 2020 CONSTRUCTION SEASON.



DESIGN AGENCY <b>PRIMER</b> 540 White Pond Drive, Ste. E Cincinnati, OH 45240 (313) 864-7755	BY	DATE	REVISIONS	NO.	CHECKED	DESIGNED	SITE UTILITY PLAN - NORTH SITE	PROJECT 58-20-01	DATE: 4/17/2020	C106	18 202	OHIO TURNPIKE
	LHB	12MAY20	ADDENDUM NO.2									
	LHB	13MAY20	ADDENDUM NO.3									
	LHB											
LUCAS COUNTY												
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION												



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PROJECT 58-20-01	DATE: 4/17/2020	C108	20 202	OHIO TURNPIKE	OHIO TURNPIKE	SITE GRADING PLAN - NORTH SITE	LUCAS COUNTY	TOLL PLAZA 49	DESIGNED LHB/J	CHECKED SMM	NO. 1	REVISIONS	BY LHB/J	DATE 12MAY20	DESIGN AGENCY	PRIME	540 White Pond Drive, Ste. E Lucas, OH 43020 (330) 864-7755

- NOTES:
- 1. ALL SIDEWALKS WILL HAVE CONTRACTION JOINTS w/o DOWELS AS SHOWN AND 1/2" EXPANSION JOINTS AT BUILDING AND WHERE SPECIFIED.
  - 2. COORDINATE THE SIDEWALK w/ARCHITECTURAL DETAILS AT THE DOORS.

TYPE K PAVEMENT JOINT

THIS JOINT SHALL BE CONSTRUCTED IN THE CONCRETE PAVEMENT AT THE LOCATIONS SHOWN ON SHEETS C109 & C110 AND SHALL PROVIDE FOR SLAB MOVEMENT IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTION WITH LOAD TRANSFER BY MECHANICAL MEANS. THIS JOINT SHALL BE "DIAMOND DOWEL" AT 18" CENTERS AS MANUFACTURED BY PNA, INC. (704) 821-7000, OR APPROVED EQUAL. (NOTE: KEYWAYS MAY ONLY BE USED IN PAVEMENT PLACED WITH THE SLIP FORM OPERATION.)

14.2'x9.5'(TYP)

SEE NOTE 2  
EXPANSION JOINT

5'x5'(TYP)

EXPANSION JOINT

EXPANSION JOINT

SEE NOTE 2

13.5'x9.5'(TYP)

EXPANSION JOINT

5'x5'(TYP)

SEE NOTE 2

EXPANSION JOINT

5'x7'(TYP)

TRASH PAD  
(58-20-01)

JOINTING LEGEND

C-TRANSVERSE CONTRACTION JOINT  
w/DOWELS, PER ODOT STD DWG  
BP-2.2

K-DUEL MOVEMENT JOINT, SEE  
DESCRIPTION NOTE, THIS SHEET. USE  
ITEM 433-CRACK SEALING, TYPE IV.

L-LONGITUDINAL JOINT w/TIE BARS, PER  
ODOT STD DWG BP-2.1 (HOOK BOLTS  
NOT PERMITTED)

EX-1" EXPANSION JOINT WITHOUT  
DOWELS, PER ODOT STD DWG BP-2.2.  
USE ITEM 433-CRACK SEALING, TYPE  
IV.

10'x10'(TYP)

10'x14'(TYP)

20'x13.8'(TYP)

20'x17.7'(TYP)

20'x17.7'(TYP)

20'x17.7'(TYP)

20'x17.7'(TYP)

20'x7.8'(TYP)



SHOULDER

WESTBOUND LANE

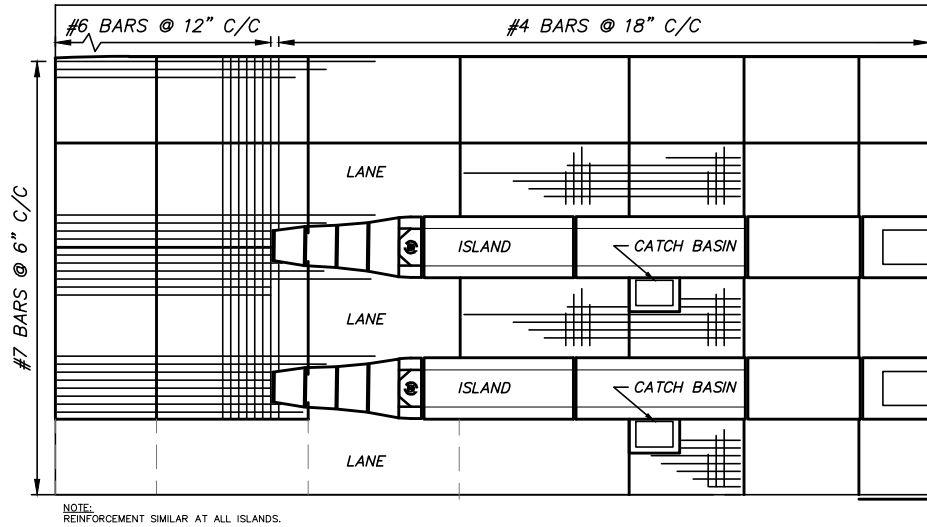
WESTBOUND LANE



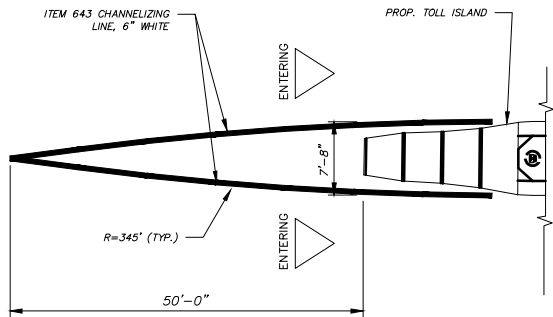
PROJECT	58-20-01	C111	23	202
DATE:	4/17/2020			
SITE	JOINTING PLAN - NORTH SITE	LUCAS COUNTY		
DESIGNED	LHB	DRAWN	LHB	
CHECKED	SMM	IN CHARGE	SMM	
NO.	ADDENDUM NO. 3			
REVISIONS				
BY	LHB	DATE	15 MAY 20	
DESIGN AGENCY	PRIME			
	540 White Pond Drive, Ste. E Cincinnati, OH 45220 (313) 864-7755			

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

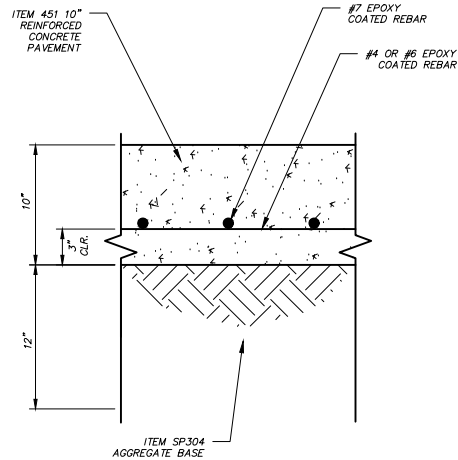




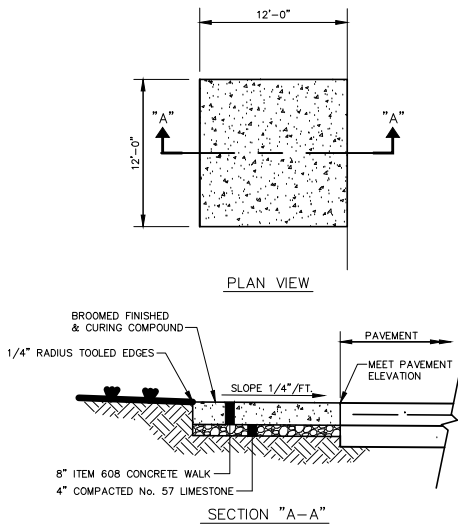
PAVEMENT REINFORCEMENT PARTIAL PLAN  
N.T.S.



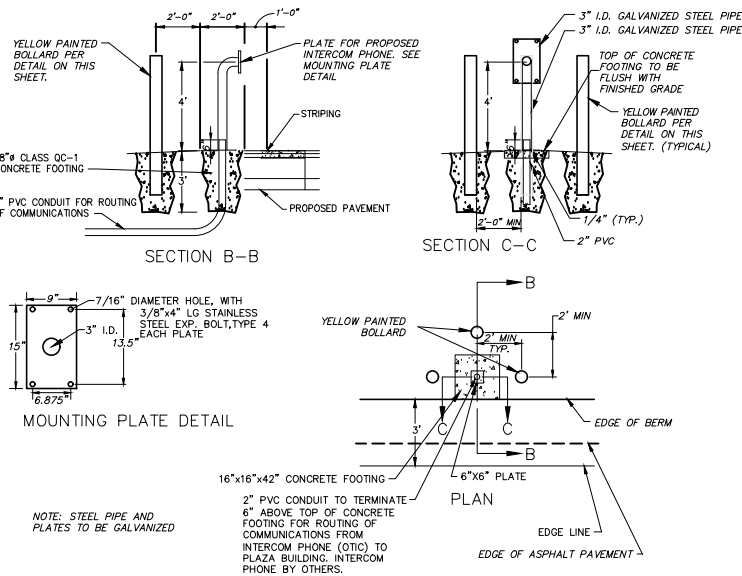
PAVEMENT MARKING DETAIL FOR PROPOSED ENTRANCE/EXIT LANES  
N.T.S.



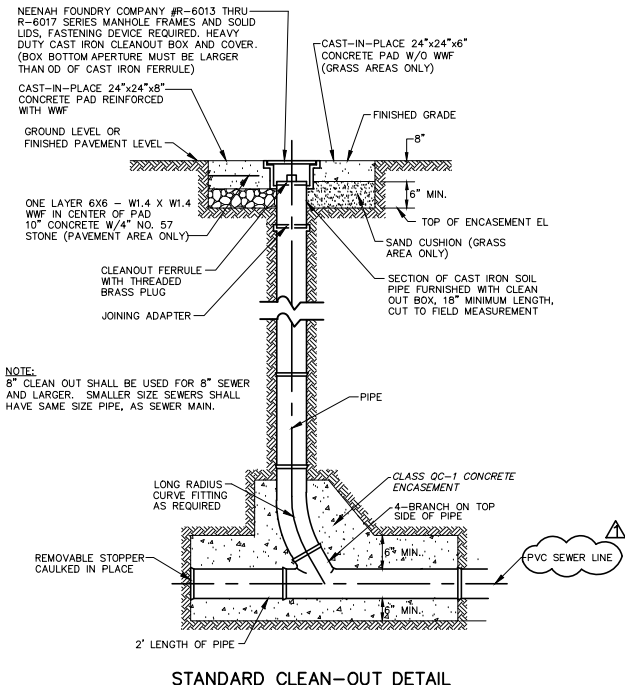
CONCRETE PAVEMENT DETAIL  
N.T.S.



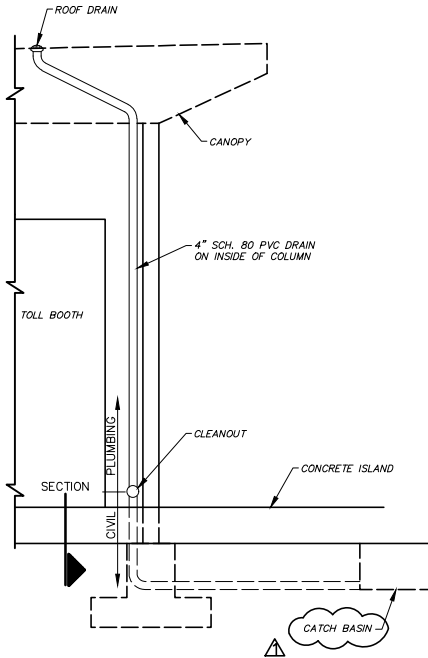
CONCRETE PAD FOR TRASH RECEPTACLE DETAIL  
N.T.S.



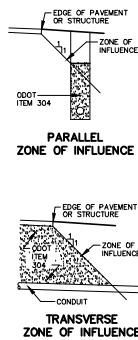
INTERCOM PHONE PAD & SUPPORT DETAIL  
N.T.S.



STANDARD CLEAN-OUT DETAIL  
N.T.S.



ROOF DRAIN DETAIL  
N.T.S.



CLASS 'A' PIPE EMBEDMENT

NOTES:

1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.

3. PIPE EMBEDMENT:

CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "QC-1". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 GRANULAR PIPE EMBEDMENT.

CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 GRANULAR PIPE EMBEDMENT.

CLASS QC-1: CLASS QC-1 PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN (4" AND LARGER), DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE BEDDING AND PIPE EMBEDMENT SHALL BE SAND OR PEA GRAVEL IN ALL AREAS.

4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE ODOT ITEM 304. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.

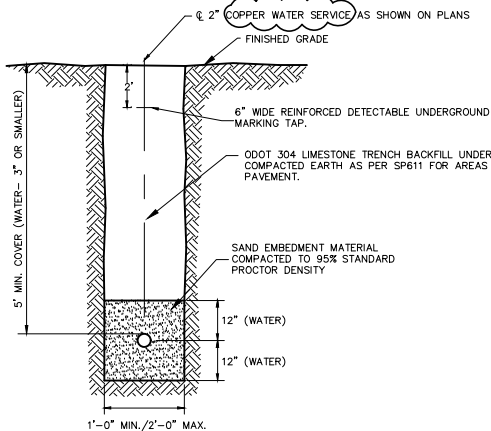
5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SP611 AS MODIFIED BY THIS DETAIL AND THE CONTRACT DOCUMENTS.

6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.

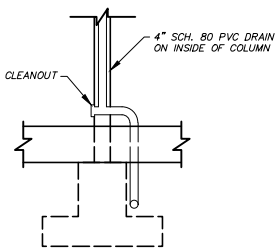
7. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

8. APPLICABLE FOR ALL SITE (CONC. STORM SEWER, PVC SANITARY SEWER AND COPPER WATER SERVICE)

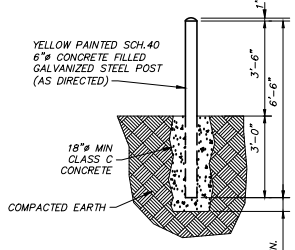
TRENCHING, EMBEDMENT & BACKFILL DETAIL FOR  
STORM SEWER, SANITARY SEWER & WATER MAIN  
N.T.S.



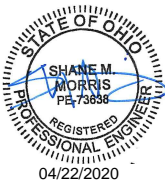
WATER LINE (3" OR SMALLER) TRENCH DETAIL  
& PROPANE TRENCH DETAIL  
N.T.S.



SECTION  
N.T.S.



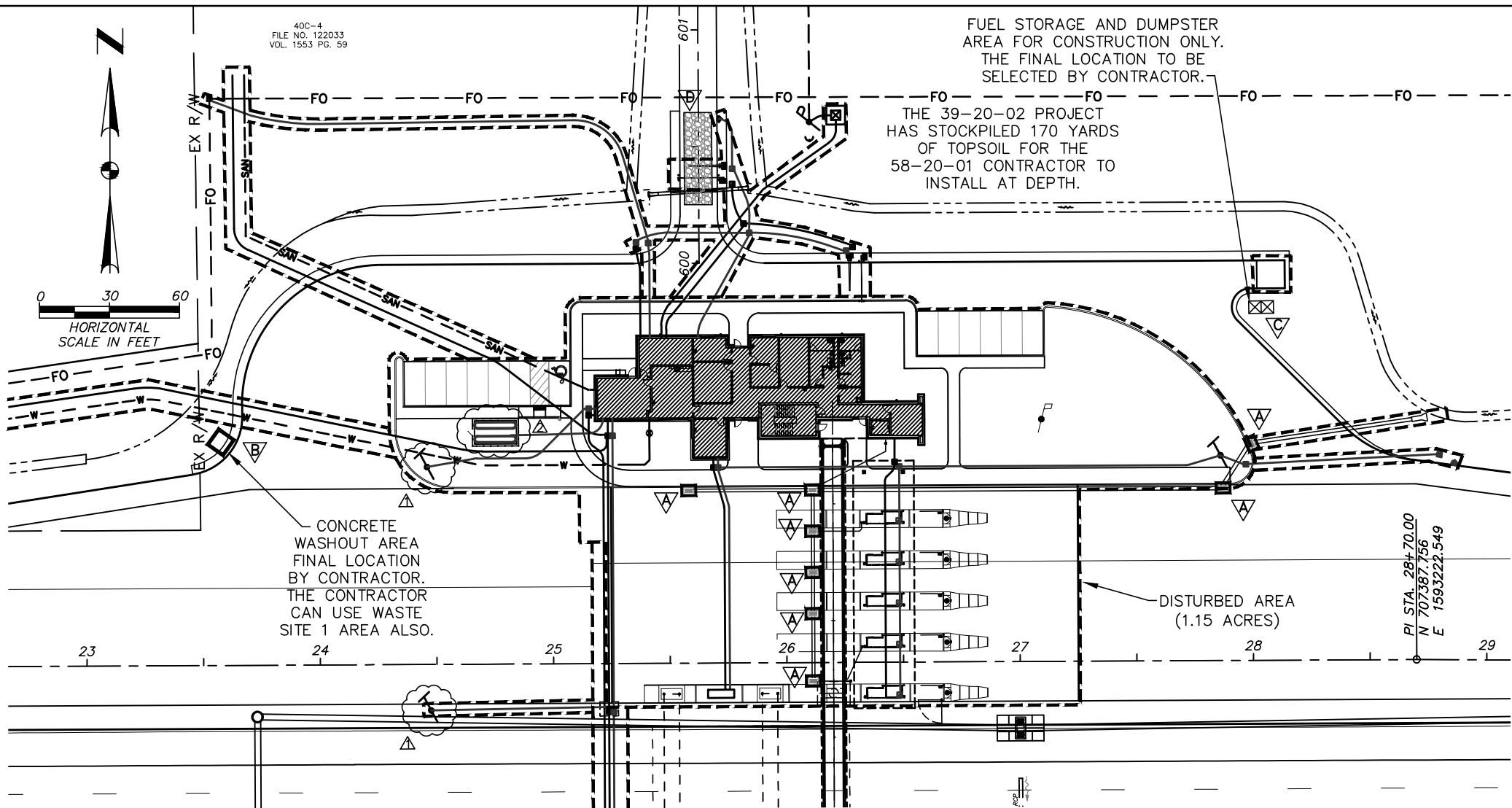
TYP. BOLLARD DETAIL  
N.T.S.



DESIGN AGENCY			BY DATE			REVISIONS			NO.			CHECKED			DESIGNED			MISCELLANEOUS SITE DETAILS			PROJECT 58-20-01			DATE: 4/17/2020			C119			31			202		
PRIME			LHB			15MAY20			ADDITIONAL NO. 3			SMM			LHB			LUCAS COUNTY			TOLL PLAZA 49			4/17/2020			C119			31			202		
540 White Pond Drive, Ste. E Cincinnati, OH 45220 (330) 864-7755																																			



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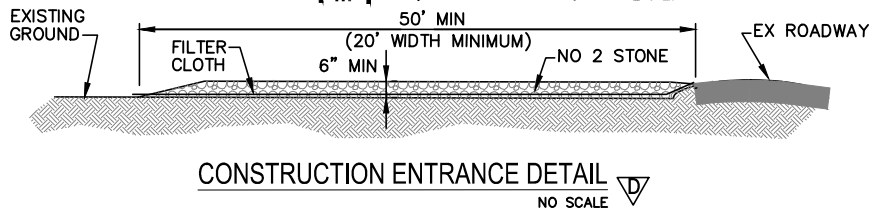
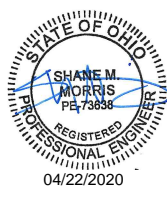


#### TEMPORARY STABILIZATION

AREAS REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS WITHIN 50 FEET OF A STREAM AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A STREAM	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA
	FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO THE ONSET OF WINTER WEATHER

#### PERMANENT STABILIZATION

AREAS REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL BE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA



#### CONSTRUCTION SPECIFICATIONS

STONE SIZE- NO. 2 (2-1/2" TO 1-1/2") OR ITS EQUIVALENT.

LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

THICKNESS - NOT LESS THAN SIX (6) INCHES

WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

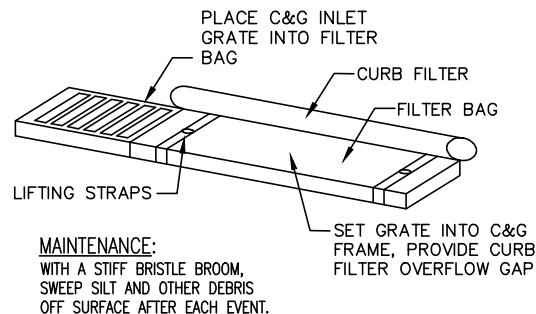
MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN-OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

#### SEDIMENT & SOIL EROSION LEGEND

- : CATCH BASIN PROTECTION
- : CONCRETE WASHOUT AREA
- : FUEL STORAGE AND DUMPSTER
- : CONSTRUCTION ENTRANCE DRIVE



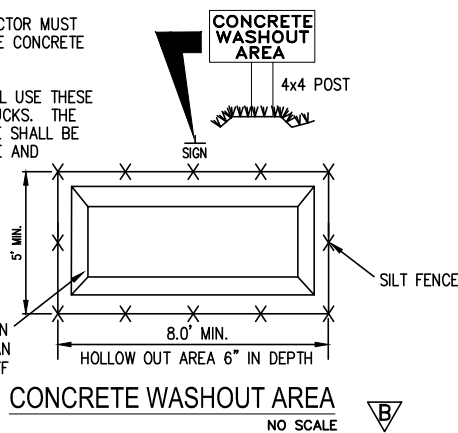
#### CURB INLET PROTECTION WITH GRATE

NO SCALE

NOTE:  
PER OEPA, THE CONTRACTOR MUST UTILIZE A LINER FOR THE CONCRETE WASHOUT AREA.

CONCRETE TRUCKS SHALL USE THESE AREAS TO WASHOUT TRUCKS. THE ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

PLASTIC LINE DEPRESSION FOR REMOVAL OR USE AN ABOVE GROUND ROLL OFF BOX WITH LINER AS AN ALTERNATE.



#### SWPP GENERAL NOTES

CONTRACTOR RESPONSIBILITY: DETAILS HAVE BEEN PROVIDED ON THE PLANS IN AN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE O.D.N.R. MANUAL "RAINWATER AND LAND DEVELOPMENT." THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPERTY MAINTENANCE AND INSPECTION IN COMPLIANCE WITH NPDES GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

PRIOR TO CONSTRUCTION OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE ENGINEER.

THE CONTRACTOR SHALL PLACE INLET AND CHANNEL PROTECTION FOR EROSION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF THE INLETS OR CHANNELS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN OR DAM.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.

THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLANS. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

"TEMPORARY SEEDING" NO AREA FOR WHICH GRADING HAS BEEN COMPLETED OR WHERE A DENUDED AREA WILL REMAIN IDLE FOR MORE THAN 21 DAYS SHALL BE LEFT UNSEEDDED FOR LONGER THAN 7 DAYS. IF PERMANENT SEED IS NOT APPLIED AT THIS TIME, TEMPORARY SEEDING SHALL BE DONE AT THE FOLLOWING RATES:

#### MARCH 1 TO NOVEMBER 15

SEED: OATS	2 LBS./1,000 S.F.
FERTILIZER: (12: 12:12)	25 LBS./1,000 S.F.
MULCH: (STRAW OR HAY)	2 TONS/ACRE

#### NOVEMBER 15 TO NOVEMBER 1:

SEED: ANNUAL RYE	2 LBS./1,000 S.F.
FERTILIZER: (12: 12:12)	25 LBS./1,000 S.F.
MULCH: (STRAW OR HAY)	2 TONS/ACRE

#### NOVEMBER 1 TO MARCH 1:

MULCH (ONLY): STRAW OR HAY 2 TONS/ACRE

"PERMANENT SEEDING" SHALL BE DONE BETWEEN MARCH 15 AND NOVEMBER 15. IF SEEDING IS DONE BETWEEN NOVEMBER 15 AND MARCH 15, IT SHALL BE CLASSIFIED AS "TEMPORARY SEEDING." PERMANENT SEED SHALL BE 40% KENTUCKY BLUEGRASS, 40% CREEPING RED FESCUE, 20% ANNUAL RYEGRASS. PERMANENT SEEDING SHALL CONSIST OF FERTILIZING, WATER AND SEEDING RATES INDICATED UNDER ITEM 659. SEEDING SHALL BE APPLIED WITHIN TWO (2) DAYS AFTER FINAL GRADING OR FOLLOWING SEED BED PREPARATION.

RATES OF APPLICATION OF ITEM 659:

SEED	4 LBS./1,000 S.F.
FERTILIZER: (12: 12: 12)	20 LBS./1,000 S.F.
MULCH: STRAW (HAY)	2 TONS/ACRE (3 TONS/ACRE)

MAINTENANCE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENT CONTROL FEATURES USED ON THIS PROJECT. THE SITE SHALL BE INSPECTED PERIODICALLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A STRUCTURE SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER. NOT ALL DETAILS SHOWN ON THIS SHEET MAY BE REQUIRED FOR THIS PROJECT. REFERENCE SEDIMENT CONTROL PLAN.

THE COST FOR TEMPORARY CHANNELS, SEDIMENT DAMS, SEDIMENT BASINS, AND OTHER APPURTENANT EARTHMOVING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR EROSION AND SEDIMENTATION CONTROL QUANTITIES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY VEHICLES AND EQUIPMENT IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE CLEANED UP DAILY. CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCES ARE A PART OF THAT RESPONSIBILITY.

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS DISCHARGED INTO STORM WATER RUNOFF. SEDIMENT-LADEN WATER SHALL BE FILTERED THROUGH THE USE OF SEDIMENT FILTERING FENCES OR SEDIMENTATION BASINS PRIOR TO DISCHARGE TO SURFACE WATERS. CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE INTO OR ALONGSIDE RIVERS, STREAMS, AND CREEKS OR INTO NATURAL OR MAN-MADE CHANNELS OR SWALES LEADING THERETO. CONCRETE TRUCK WASH WATER AND SURPLUS CONCRETE SHALL BE CONFINED TO AREAS APPROVED BY THE ENGINEER; AFTER SOLIDIFYING, THESE WASTE MATERIALS SHALL BE REMOVED FROM THE SITE.

ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD INSPECTIONS.

#### NOTE:

A COPY OF THE APPROVED EPA STORM WATER PERMIT WILL BE PROVIDED BY THE 39-20-02 CONTRACTOR. THIS WORK WILL BE INCLUDED WITHIN THAT EPA PERMIT.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPP PLAN AND THE APPROVED EPA STORM WATER PERMIT (WITH THE SITE SPECIFIC NOI NUMBER, IF REQUIRED) SHALL BE KEPT ON-SITE AT ALL TIMES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ON-SITE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING DRAINAGE.

DESIGN AGENCY	PRIMER	DATE	12MAY20	15MAY20
BY	LHB	LHB	LHB	LHB
REVISIONS	ADDENDUM NO.2	ADDENDUM NO.3		
NO.	A	A		
CHECKED	SMM	SMM		
DESIGNED	LHB	LHB		
DRAWN	LHB	LHB		
PROJECT	58-20-01	DATE	4/17/2020	
C120				
32				
202				

SWPPP - NORTH SITE

LUCAS COUNTY

TOLL PLAZA 49

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE



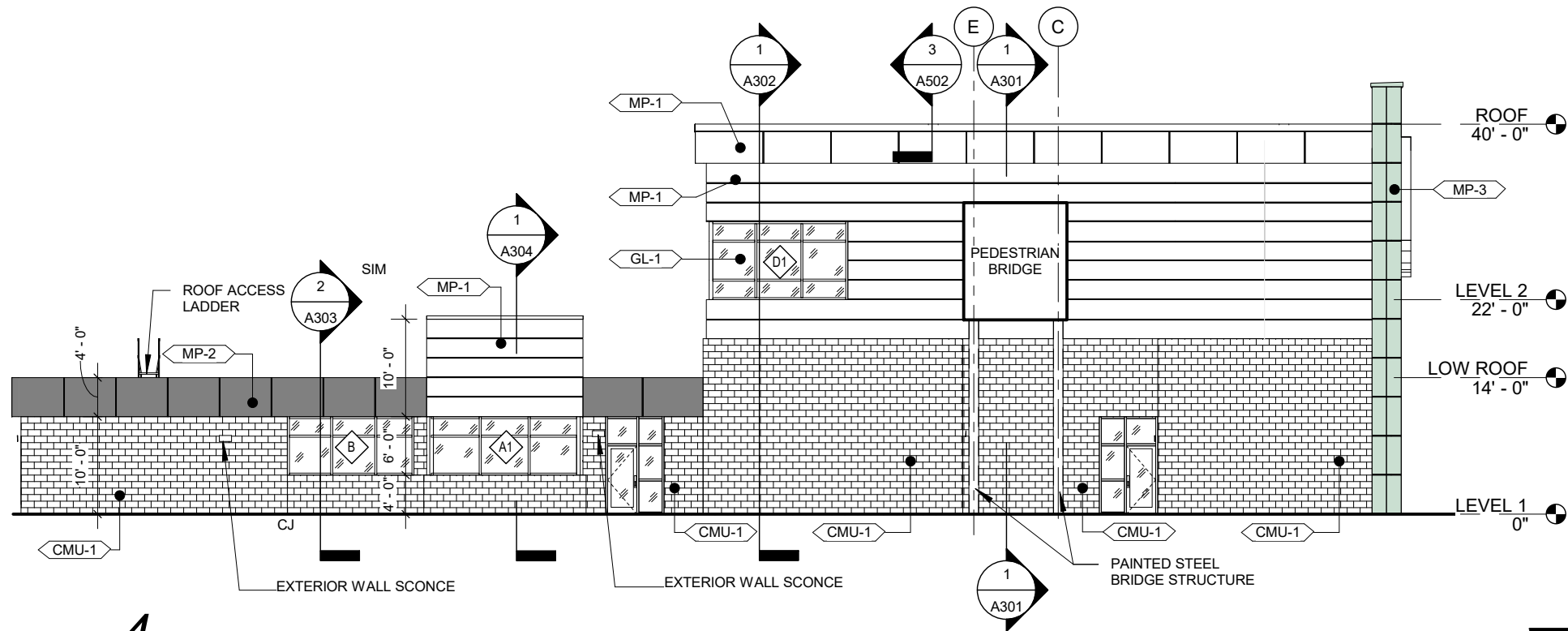
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EXTERIOR MATERIAL LEGEND

- MP-1 COMPOSITE CLEAR ANODIZED ALUM. PANEL  
MP-2 COMPOSITE BRONZE ANODIZED ALUM. PANEL  
MP-3 COMPOSITE ALUM. PANEL

- GL-1 ALUMINUM WINDOW W/ LOW E, TINTED INSULATED GLASS  
CMU-1 BURNISHED CMU VENEER  
CONC CAST CONCRETE

- X DENOTES WINDOW TYPE - SEE A604  
CJ DENOTES MASONRY CONTROL JOINT

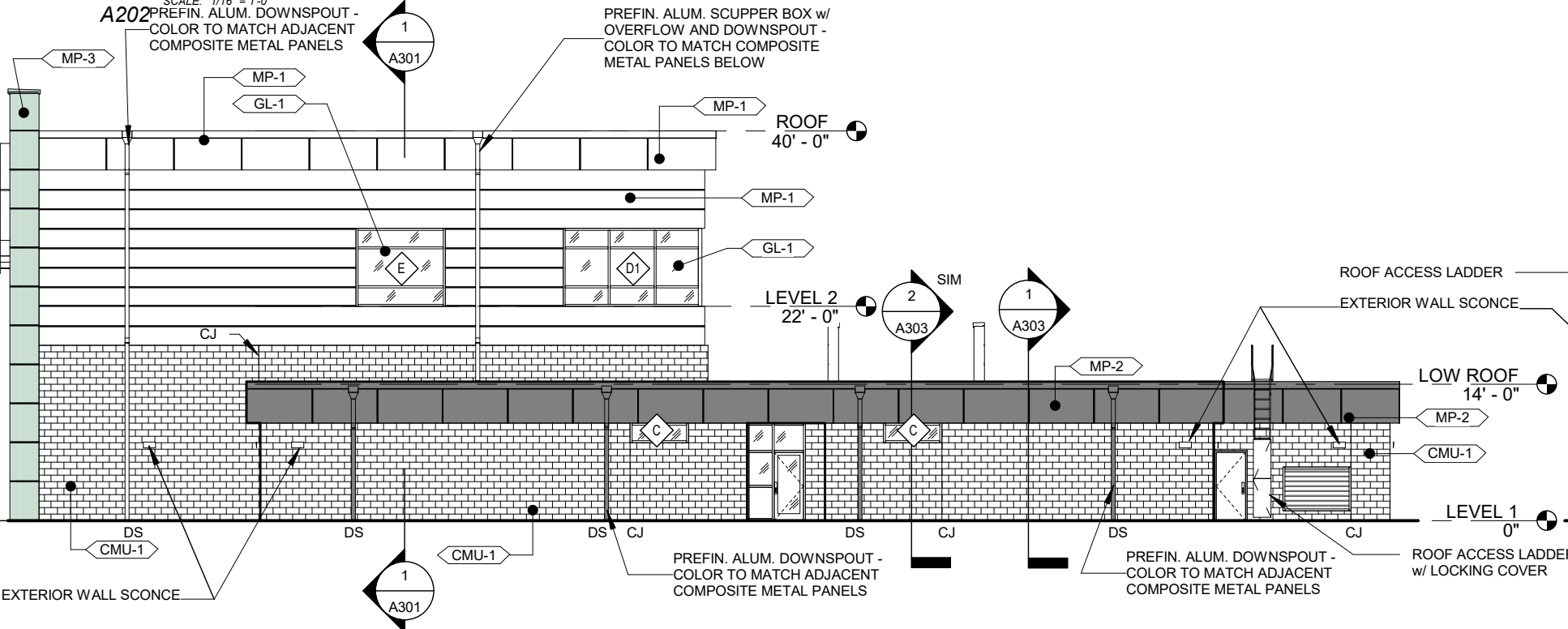


4 SOUTH ELEVATION MAIN UTILITY BUILDING

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

A202 PREFIN. ALUM. DOWNSPOUT -  
COLOR TO MATCH ADJACENT  
COMPOSITE METAL PANELS

PREFIN. ALUM. SCUPPER BOX w/  
OVERFLOW AND DOWNSPOUT -  
COLOR TO MATCH COMPOSITE  
METAL PANELS BELOW

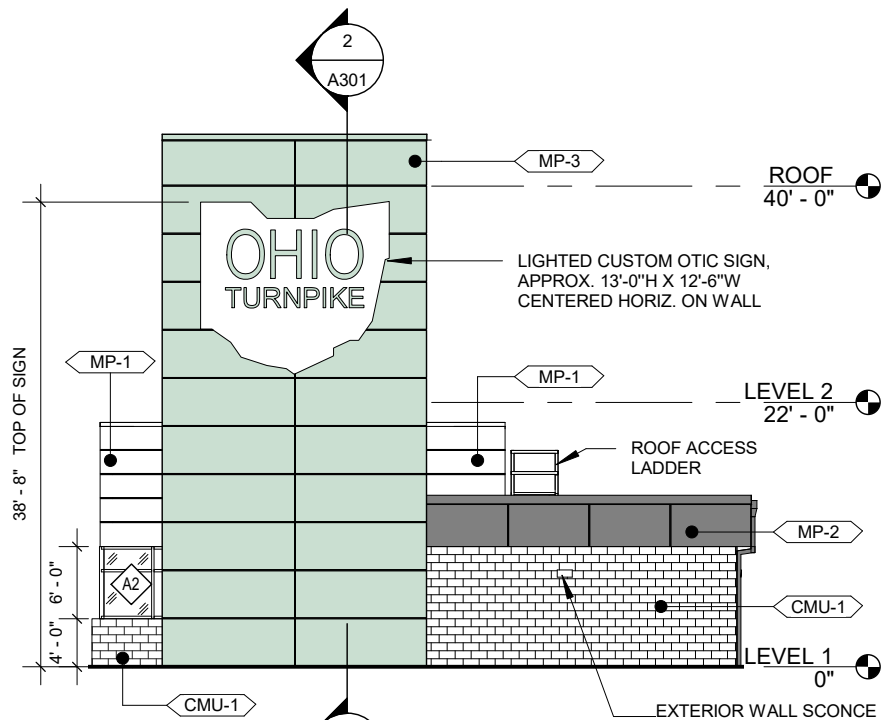


3 NORTH ELEVATION MAIN UTILITY BUILDING

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

A202

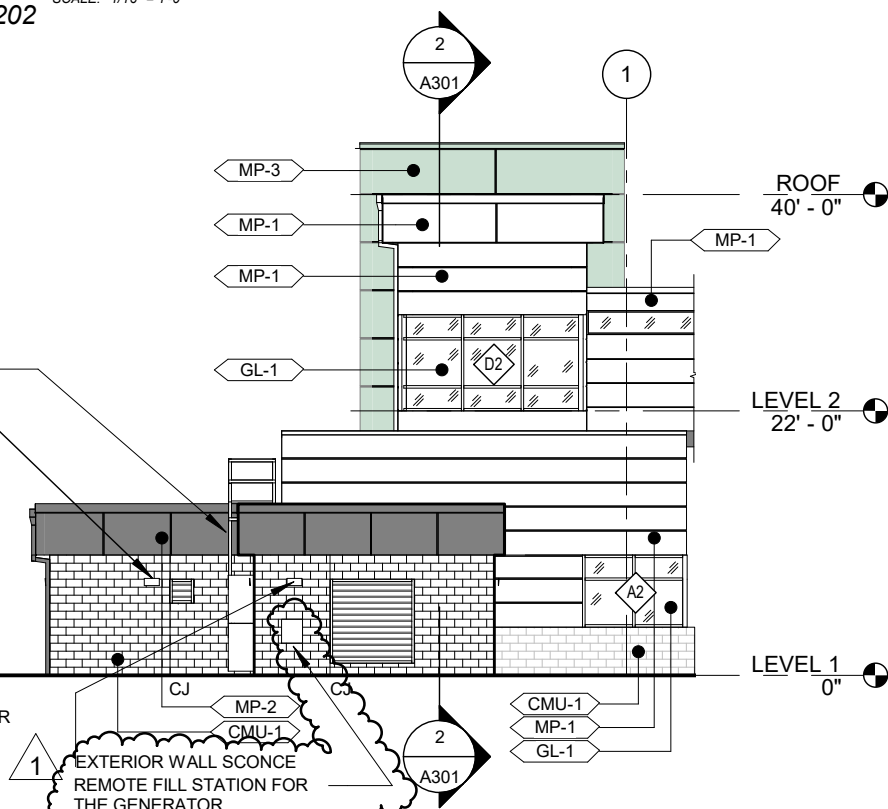
COORDINATE ALL FINISH FLOOR ELEVATIONS WITH CIVIL DRAWINGS  
ELEVATIONS NOTED ON THIS SHEET USE 0'-0" FOR FIRST FLOOR ELEVATION



2 EAST ELEVATION MAIN UTILITY BUILDING

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

A202



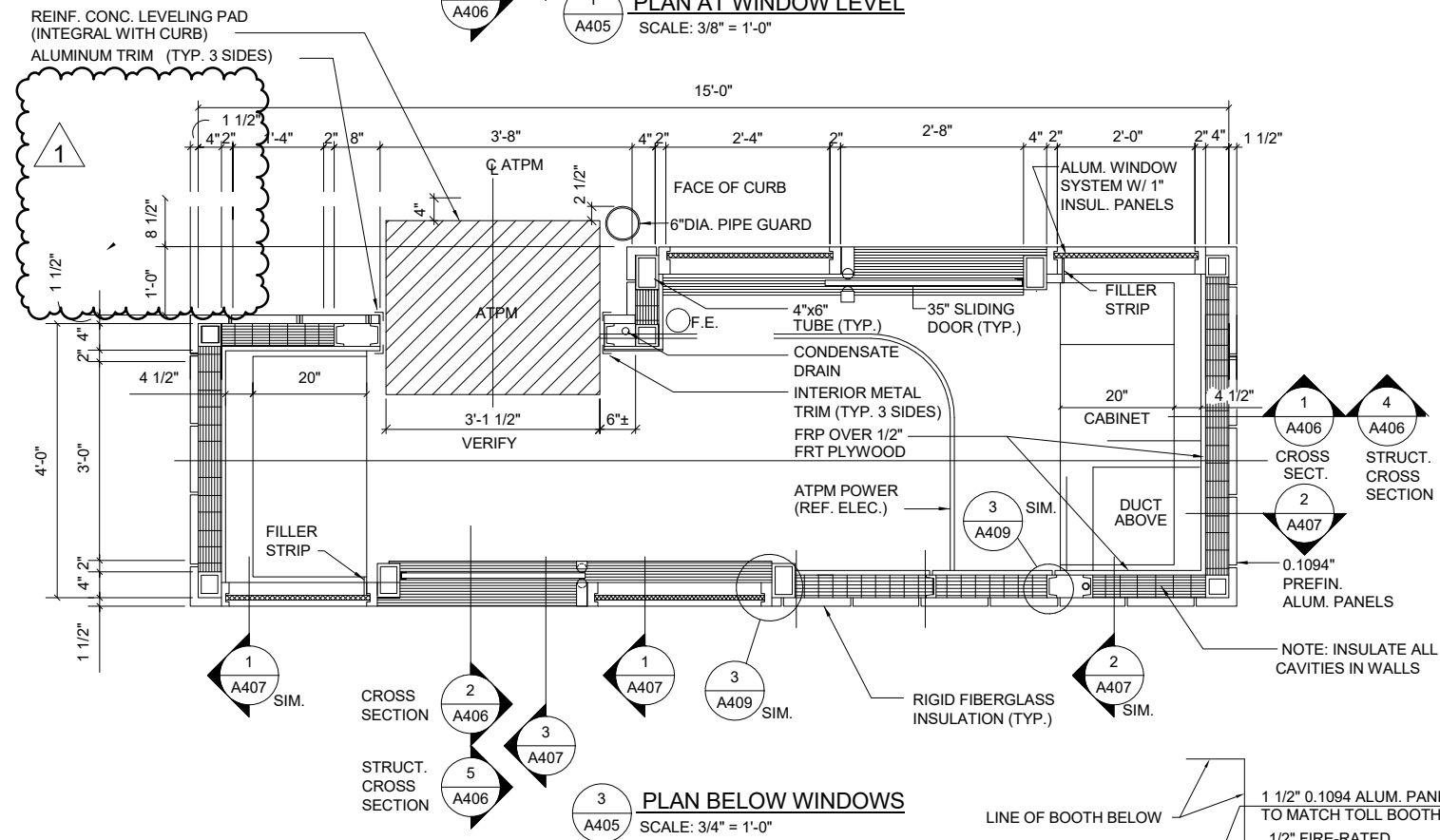
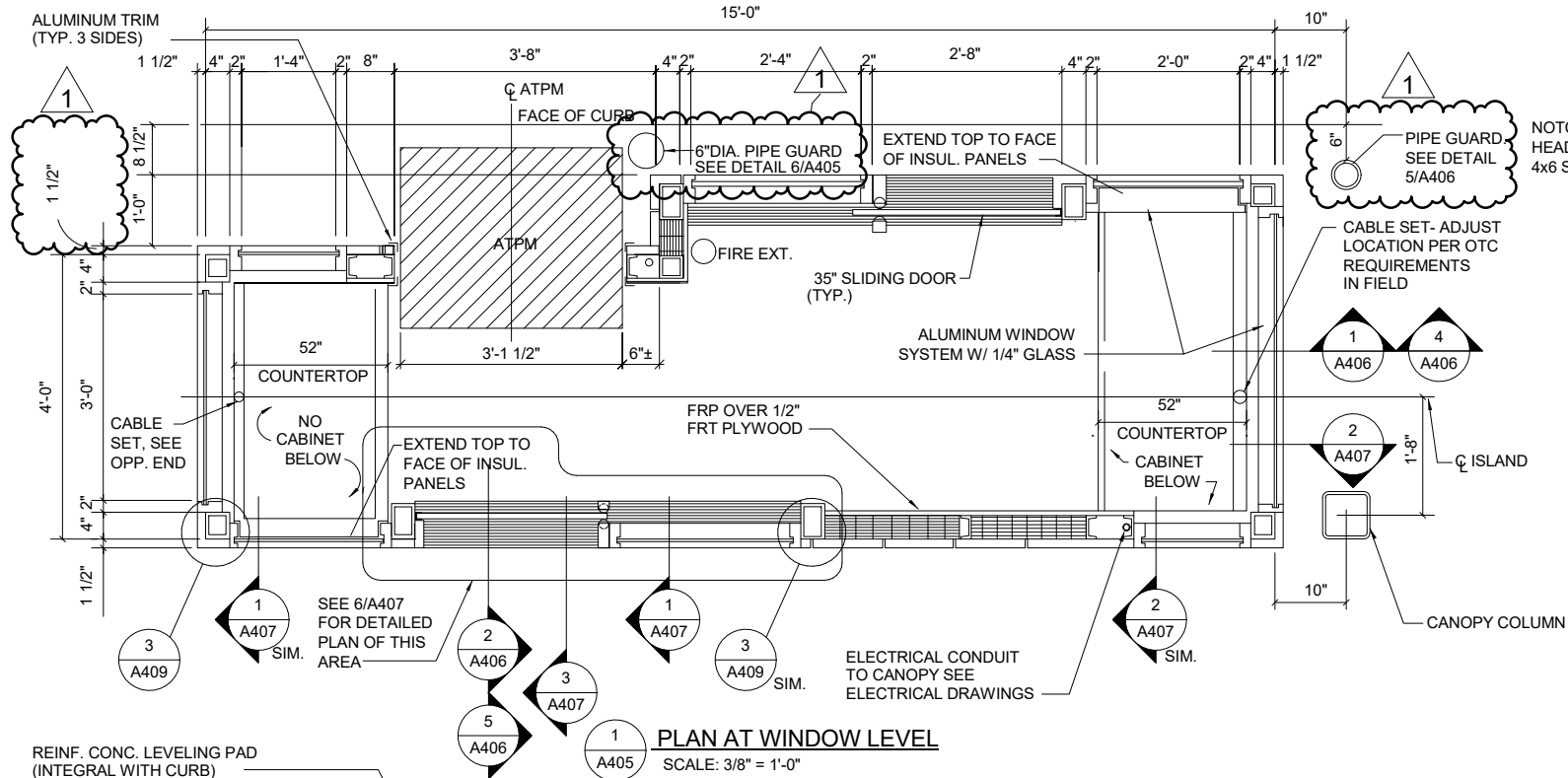
1 WEST ELEVATION MAIN UTILITY BUILDING

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

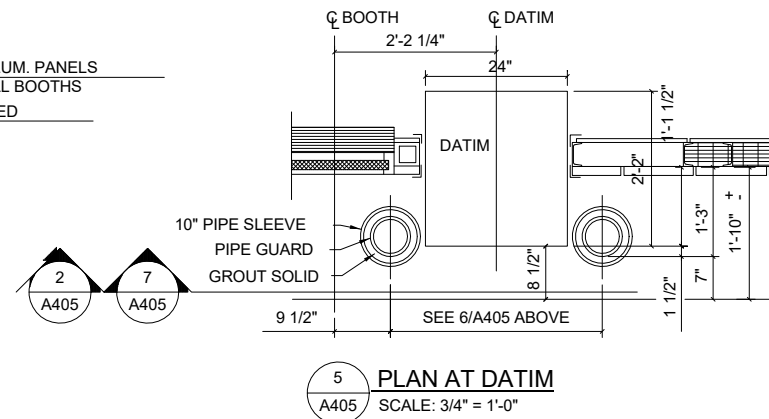
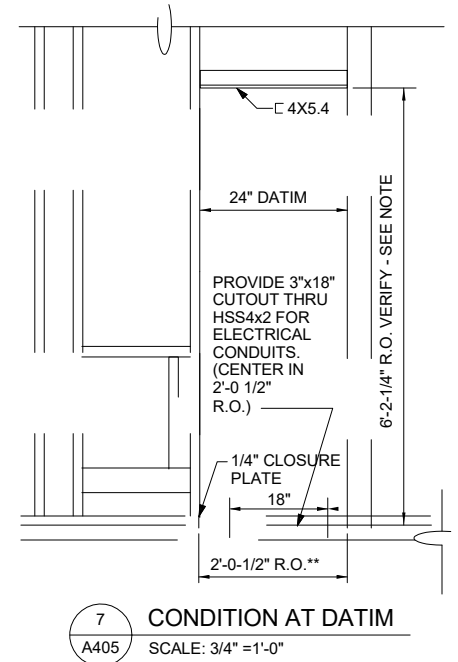
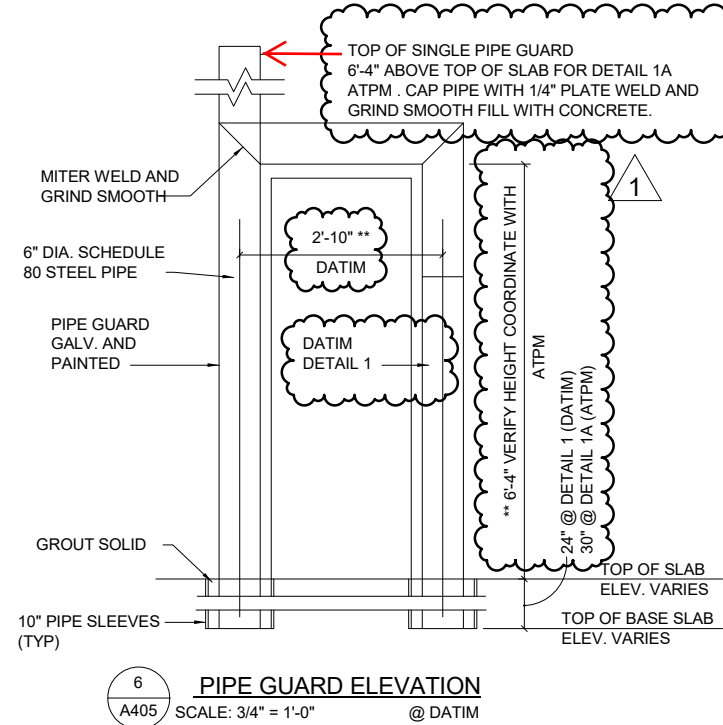
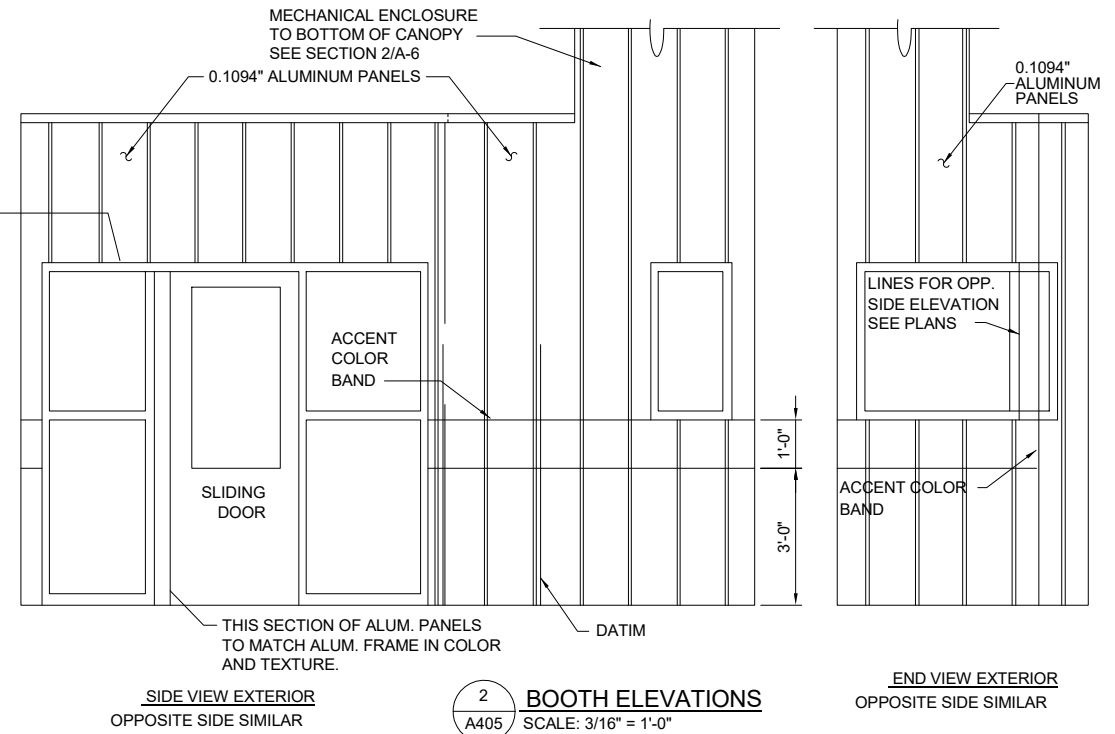
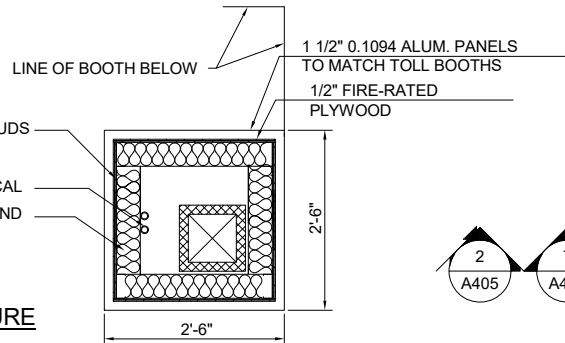
A202



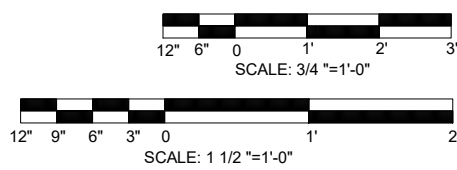
DESIGN AGENCY	PRIMEVA		540 White Pond Drive, Ste. E Akron, Ohio 44320 (330) 864-7755	
	BY	DATE	REVISIONS	ADDENDUM
	MMW	5/15/2020	3	1
	MMW			
CHECKED	MMW		IN CHARGE	
	MMW		CAR	
	MMW		MAK	
	MMW		MAK	
ELEVATION MAIN BUILDING		LUCAS COUNTY		TOLL PLAZA 49
PROJECT 58-20-01		DATE: 4/10/2020		A202
77		202		



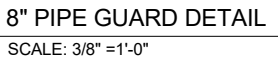
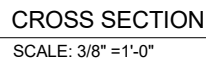
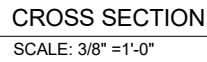
PLAN AT MECH ENCLOSURE  
(ABOVE TOLL BOOTHS)  
NO SCALE

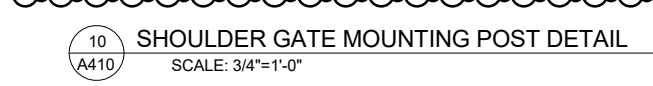
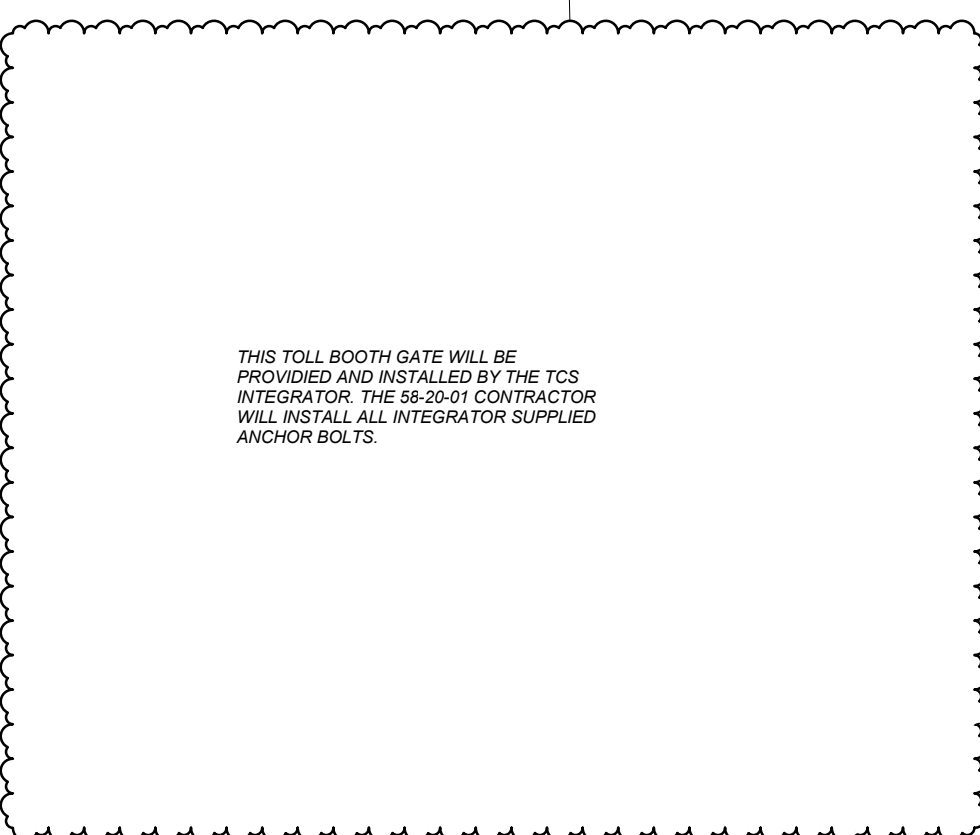
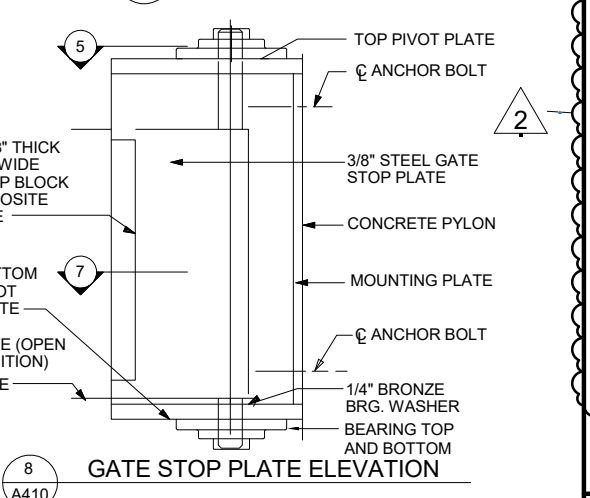
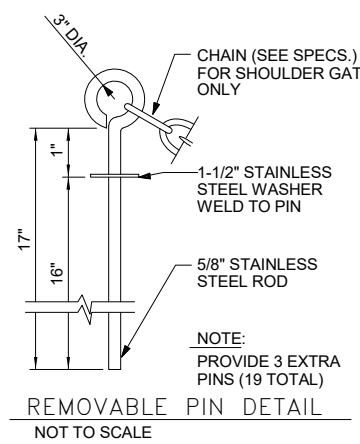
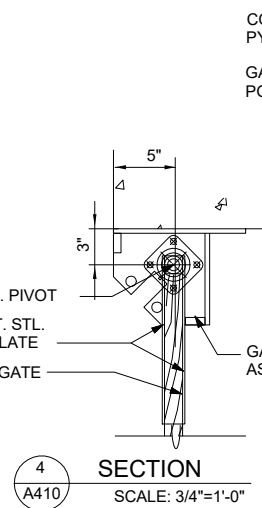


\*\* NOTE:  
VERIFY ROUGH OPENING  
SIZE WITH OTC PRIOR TO  
FABRICATION OF BOOTH  
FRAMING AND PIPE  
GUARDS. VARIATIONS IN  
EQUIPMENT WILL AFFECT  
NOTED DIMENSIONS.



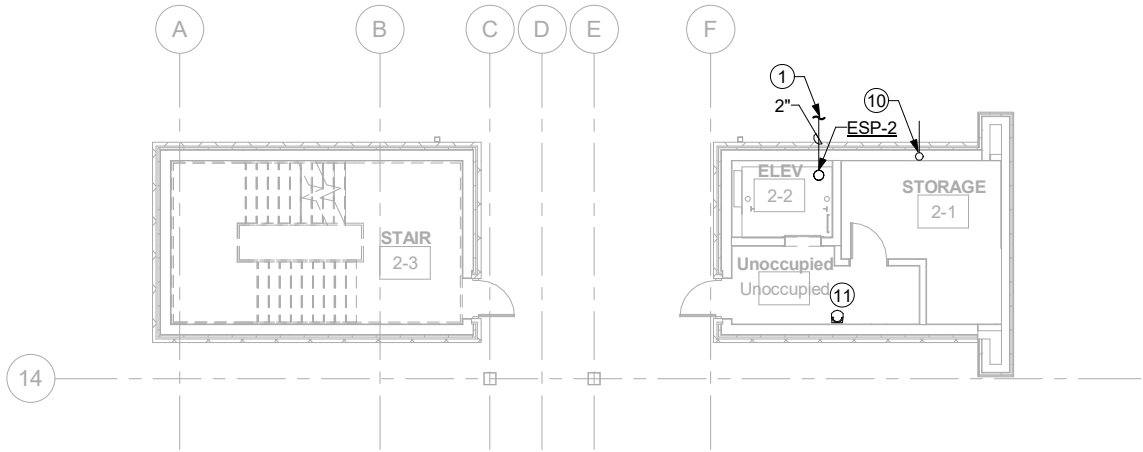






1. CONTINUOUS WELD ALL JOINTS, GRIND SMOOTH
2. HOT DIP GALVANIZE AFTER FABRICATION.
3. SHOULDER GATE SHALL RECEIVE MIRROR IMAGE PIVOT ASSEMBLY.
4. EACH PIVOT ASSEMBLY SHALL RECEIVE A REMOVABLE PIN (THE SHOULDER GATE SHALL RECEIVE A CHAIN AND REMOVABLE PIN) AS SHOWN AND SPECIFIED TO BE INSERTED IN THE LOCK PIN HOLES TO SECURE THE GATE IN THE OPEN AND CLOSED POSITIONS.
5. THE SHOULDER GATES MUST HAVE THE PINS INSERTED AT ALL TIMES (IN THE OPEN OR CLOSED POSITION).
6. THE GATES WITH GATE OPERATORS SHALL HAVE LOOSE PINS (STORED IN THE UTILITY BUILDING) TO BE USED ONLY WHEN THE GATE OPERATORS ARE DISCONNECTED.
7. PAINT THE EXPOSED PORTIONS OF THE INNER RACES FOR THE BEARINGS WITH A ZINC RICH PRIMER.



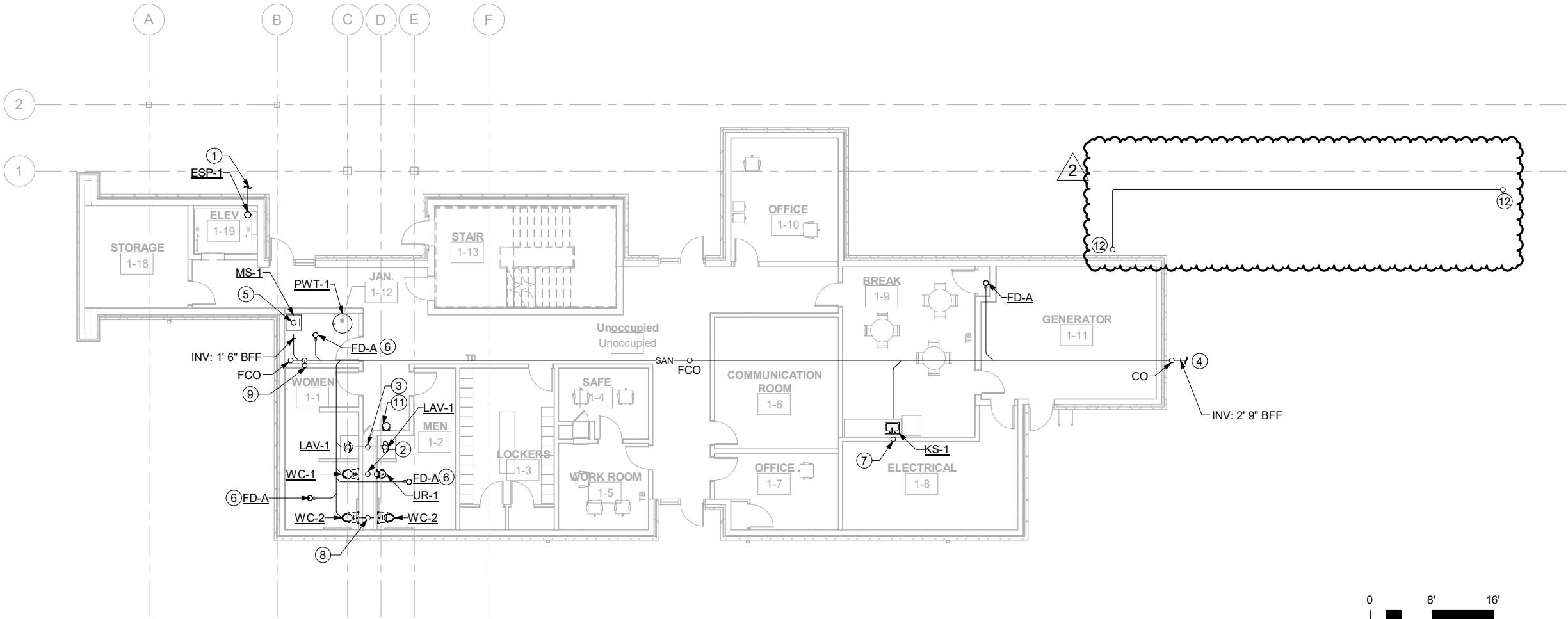


SECONDARY BUILDING BELOW GRADE ENLARGED PLUMBING PLAN

1/16" = 1'-0"

2  
P201

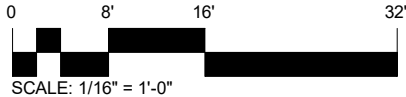
- # KEYNOTES
- ELEVATOR SUMP PUMP DISCHARGE BELOW GRADE. SEE CIVIL DWG FOR CONT.
  - 4" SAN UP. BRANCH 4" TO WC, 2" TO URINAL. EXTEND 2" VENT UP.
  - 1 1/2" SAN UP. BRANCH 1 1/2" SAN TO EACH LAVATORY. EXTEND 1 1/2" VENT UP.
  - 4" SANITARY TO LEACH FIELD. SEE CIVIL DWG. FOR CONTINUATION.
  - 3" SAN UP TO MS-1.
  - 3" WASTE UP TO FD-A.
  - 2" SAN UP TO KS-1. EXTEND 1 1/2" VENT UP.
  - 4" SAN UP. BRANCH 4" SAN TO EACH WC. EXTEND 2" VENT UP.
  - 2" VP UP IN WALL.
  - 3/4" CD DISCHARGE TO DAYLIGHT AND UP IN WALL TO AC-4 AND AC-3.
  - BOTTLED COOLER (BY ARCHITECT).
  - 3/4" POLYETHYLENE PROPANE GAS PIPE UP. SEE P202 FOR CONTINUATION.



MAIN BUILDING BELOW GRADE ENLARGED PLUMBING PLAN

1/16" = 1'-0"

1  
P201

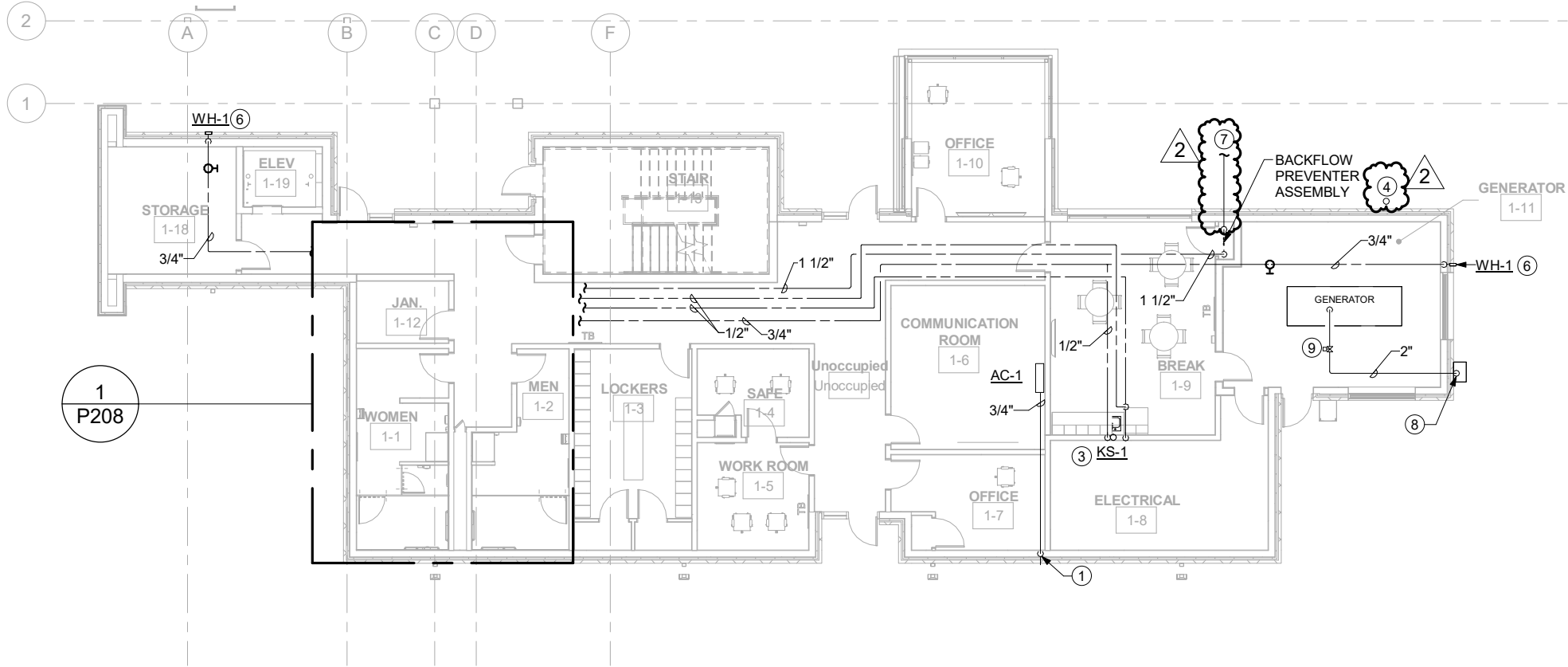


PROJECT 58-20-01	DATE: 05/13/2020	FIRST FLOOR BELOW GRADE ENLARGED PLUMBING PLAN		LUCAS COUNTY		DESIGN AGENCY PRIMEV 540 White Pond Drive, Ste. E Akron, Ohio 44320 (330) 664-7755	OHIO TURNPIKE
		NO.	REVISIONS	CHECKED	DESIGNED	BY	DATE
P201	120 202	1	ADDENDUM NO. 2	JV	AR	CK	5/12/20
		2	ADDENDUM NO. 3	JV	AR	JV	5/13/20

MAIN UTILITY BUILDING ABOVE GRADE  
ENLARGED PLUMBING PLAN

1/16" = 1'-0"

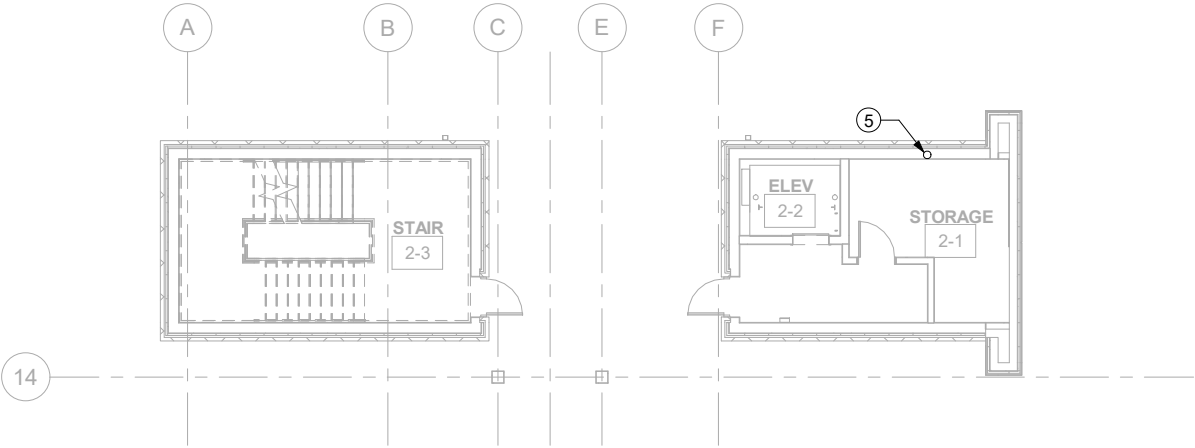
1  
P202



SECONDARY UTILITY BUILDING ABOVE GRADE  
ENLARGED PLUMBING PLAN

1/16" = 1'-0"

2  
P202



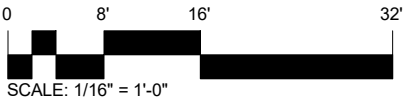
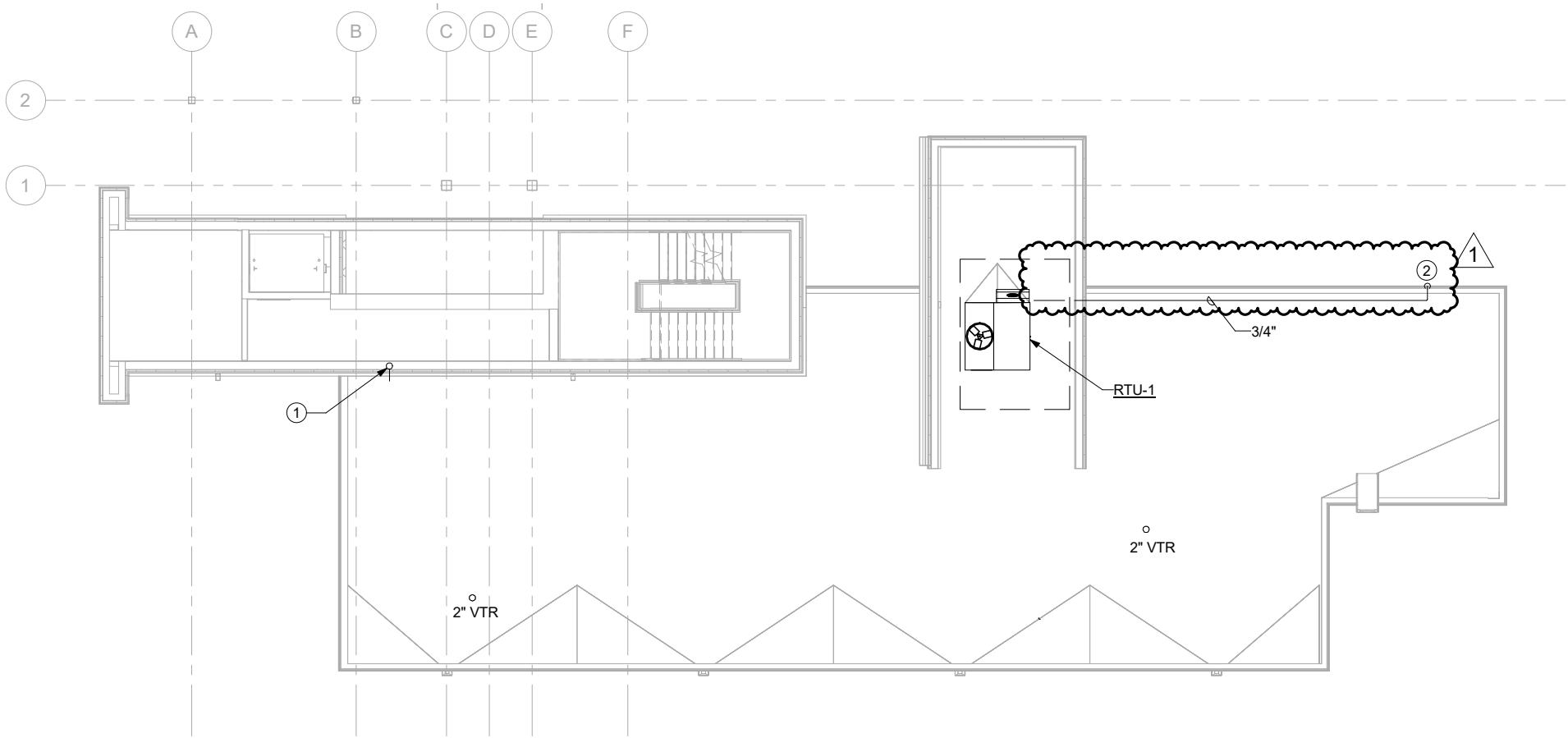
- # KEYNOTES
- 3/4" CD DOWN IN WALL AND DISCHARGE TO DAYLIGHT
  - TANKS AND FINAL CONNECTIONS PROVIDED BY COMMISSION VENDOR
  - 1/2" DCW, DHW, 1 1/2" VENT DOWN IN WALL TO KS-1
  - 3/4" POLYETHYLENE PROPANE GAS PIPE UP TO ROOF AND DOWN BELOW GRADE. SEE P201 AND P203 FOR CONTINUATION
  - 3/4" CD UP AND DOWN IN WALL. SEE DWG. P201 AND P204 FOR CONTINUATION
  - 3/4" DCW DOWN IN WALL TO WALL HYDRANT
  - 2" INCOMING DOMESTIC WATER. SEE CIVIL DWG. FOR CONTINUATION
  - REMOTE FILL STATION PER GENERATOR MANUFACTURER. SEE ELECTRICAL DRAWINGS
  - ACTUATED VALVE CLOSING ON HIGH LEVEL
  - 3/4" POLYETHYLENE PROPANE GAS PIPE DOWN BELOW GRADE. STUB 12" ABOVE CONCRETE PAD FOR PROPANE TANK CONNECTION (BY COMMISSION VENDOR). SEE P201 FOR CONTINUATION



MAIN BUILDING - LOWER ROOF- PLUMBING  
PLAN

1/16" = 1'-0"

1  
P203

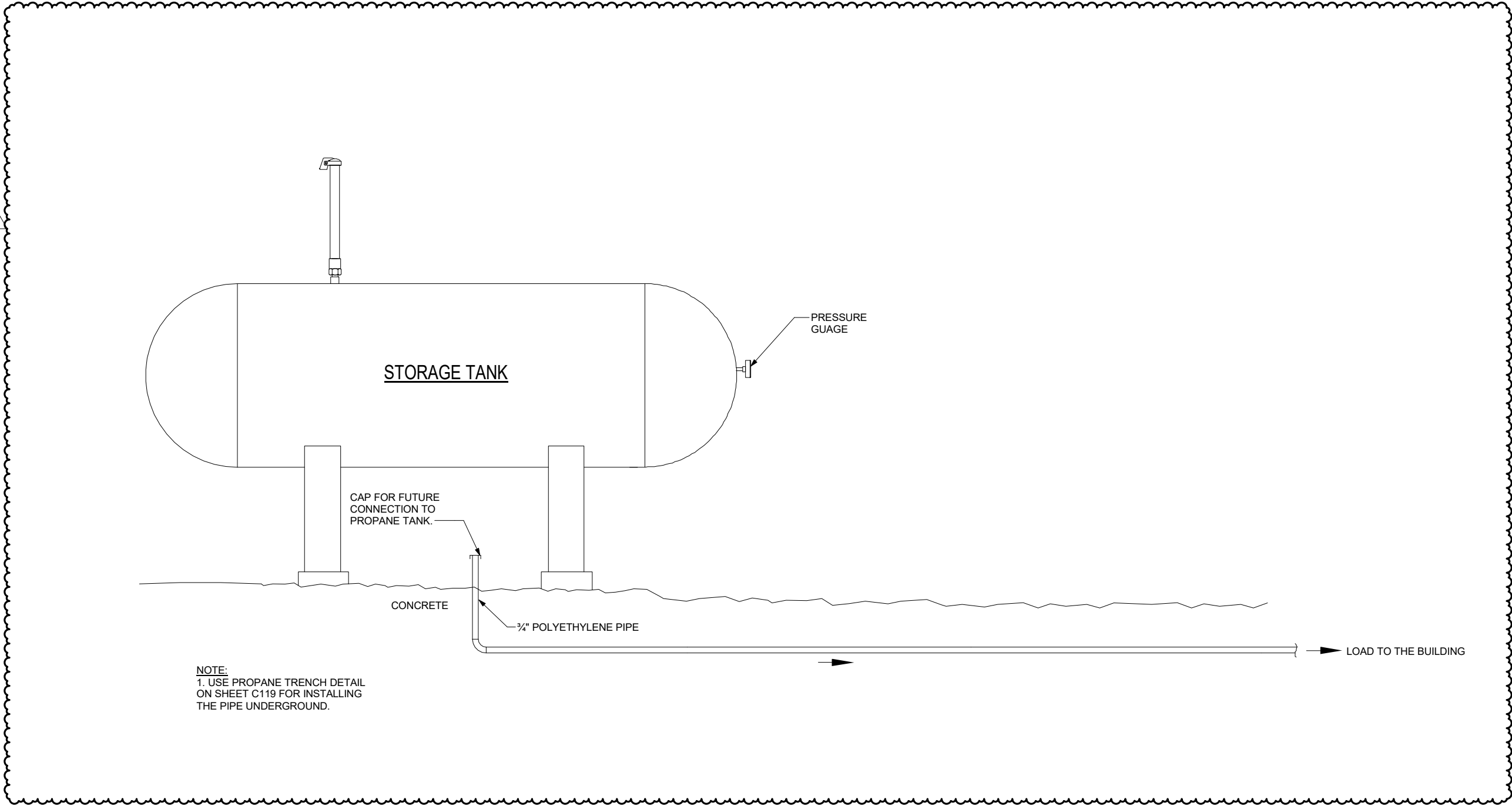


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KEYNOTES

- 1 3/4" CD DISCHARGE TO LOWER ROOF. UP IN WALL TO AC-2
- 2 3/4" POLYETHYLENE PROPANE GAS PIPE DOWN

PROJECT	58-20-01	DATE:	05/13/2020	MAIN BUILDING - LOWER ROOF- PLUMBING PLAN	DESIGNED	AR	CHECKED	JV	NO.	1	REVISIONS	ADDENDUM NO. 1	BY	JV	DATE	5/13/20	DESIGN AGENCY	 PRIMECLIMA 540 White Pond Drive, Ste. E Akron, Ohio 44320 (330) 664-7755
	P203					DRAWN		IN CHARGE										



PROPANE TANK

NTS

1  
P403



GENERAL NOTES

1.

ALL MECHANICAL EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE. SEE MECHANICAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT. ALL FUSING SHALL BE BASED ON FINAL NAMEPLATE VALUES AS DELIVERED TO THE JOB SITE.
2.

COORDINATE ALL WIRING DEVICES AND LIGHT FIXTURE LOCATIONS WITH ARCHITECTURAL ELEVATIONS, REFLECTED CEILING PLANS & MECHANICAL EQUIPMENT. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO SATISFY THEDESIGN INTENT.
3.

ALL MOUNTED HEIGHTS INDICATED ARE ABOVE FINISHED FLOOR U.O.N.
4.

ALL CONDUIT FOR TELEPHONE, RADIO & COMPUTER SYSTEMS SHALL BE 1" UNLESS OTHERWISE NOTED EACH CABLE RUN FROM A RADIO TELEPHONE, OR SPEAKER OUTLET LOCATION TO THE RECORDING ROOM SHALL BE IN A SEPARATE CONDUIT. COORDINATE ALL NEW CONDUIT RUNS WITH ALL OTHER TRADES AND COMMUNICATIONS CONTRACTOR.
5.

DAMAGE TO EXISTING FACILITIES (UNDERGROUND PIPING, CONDUIT, SIDEWALKS PARKING LOT, ETC) WILL BE REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION.
6.

TELEPHONE CABLE INSTALLATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL TELEPHONE CABLES AND RELATED HARDWARE.
7.

ANY TEMPORARY ELECTRICAL SERVICE SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
8.

DO NOT SCALE OFF THESE DRAWINGS. THE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND VERIFICATION OF EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS.
9.

ALL FLOOR PENETRATIONS AND FIRE WALL PENETRATIONS SHALL BE FIRE-SEALED WITH METHODS AND MATERIALS APPROVED BY U.L. FOR PARTICULAR SYSTEM, OF FIRE-RESISTANCE USED.
10.

METAL FASCIA SHALL BE BONDED AND GROUPED TO COMPLY WITH THE OHIO BUILDING CODE.
11.

ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ARTICLE 27 OF THE OHIO BUILDING CODE, AND THE NEC-NFPA 70 AND IS SUBJECT TO THE APPROVAL OF THE STATE ELECTRICAL INSPECTOR ASSIGNED BY THE DIVISION OF FACTORY AND BUILDING INSPECTION.
15.

ALL EXPOSED EXTERIOR PULL AND JUNCTION BOXES SHALL BE STAINLESS STEEL OR NON-METALLIC.
16.

THE TCS INTEGRATOR WILL MAKE THE FINAL CONNECTIONS TO ALL TCS EQUIPMENT.
17.

ALL ELECTRIC WORK IS INCLUDED IN THIS CONTRACT.

2

















LIGHTING LEGEND

	LED LIGHTING - SEE SHEET E-126 FOR LIGHTING FIXTURE SCHEDULE.	
	EMERGENCY BATTERY TYPE LIGHTING FIXTURE, WALL MOUNT AT 7'-6" A.F.F. UNLESS NOTED OTHERWISE.	
	FLUSH MTD SINGLE POLE TOGGLE SWITCH	48"
	FLUSH MTD 3-WAY TOGGLE SWITCH	48"
	PC	PHOTO CELL
	LC	LIGHTING CONTRACTOR
	EXIT SIGN, 'X1' CEILING MOUNTED, AT 7'-6" A.F.F. OR 'X' (WALL MOUNTED) AT 7'-6" A.F.F.	
	EXIT SIGN, AS ABOVE WITH DIRECTIONAL ARROWS.	
	WALL CONTROL SWITCH FOR REMOTE SENSORS	
	OS1	SUSPENDED CEILING MOUNTED OCCUPANCY SENSOR
	OS2	OPEN CEILING MOUNTED OCCUPANCY SENSOR

ELECTRICAL ABBREVIATIONS

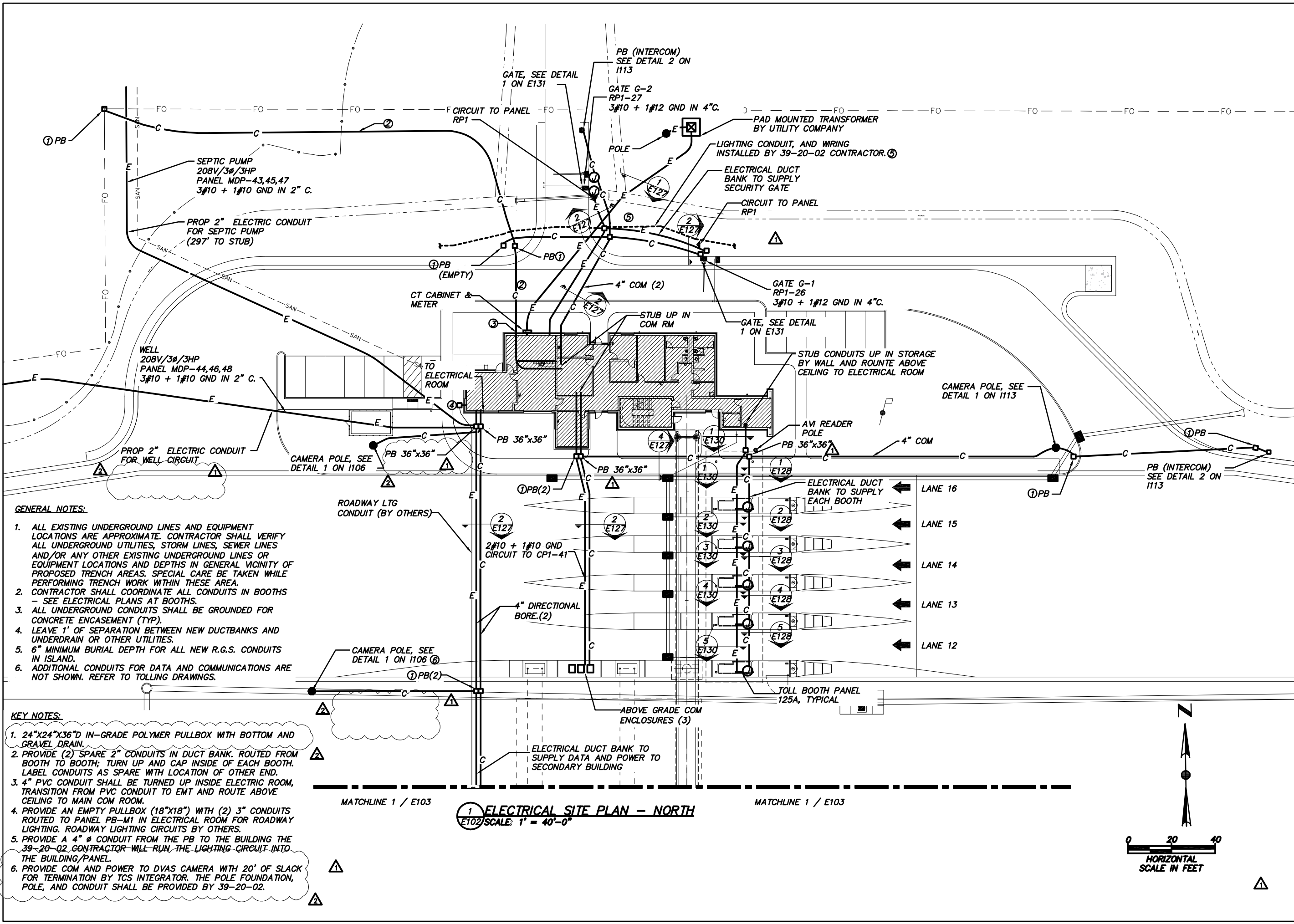
ACU	AIR CONDITIONING UNIT	GLS	GATE LIMIT SWITCH
ACCU	AIR COOLED CONDENSING UNIT	LP	LIGHTING PANEL
ACT	AUTOMATIC COUNTING TREADLE	MDP	MAIN DISTRIBUTION PANEL
AFF	ABOVE FINSHED FLOOR	MH	MOUNTING HEIGHT
AL	AXLE LIGHT	MT	MOUNT
ATD	AUTOMATIC TICKET DISPENSER	MTG	MOUNTING
ATS	AUTOMATIC TRANSFER SWITCH	NB	NORTH BUILDING
AWS	AXLE WEIGHTING SCALE	P	POWER FOR TOLL COLLECTION EQUIPMENT
BP	BY-PASS ISOLATION	PNL	PANEL
CKT	CIRCUIT	RL	RAIN LEADER
CP	COMMUNICATIONS PANEL	SA	SUPPLY AIR
DWG	DRAWING	SB	SOUTH BUILDING
EC	EMPTY CONDUIT	TC	TOLL COLLECTION CONDUIT (EMPTY)
EF	EXHAUST FAN	TTB	TELEPHONE TERMINAL BOARD
EWC	ELECTRIC WATER COOLER	UON	UNLESS OTHERWISE NOTED
FAA	FIRE ALARM ANNUNCIATOR	WP	WEATHERPROOF
HOA	HAND-OFF-AUTOMATIC	XFMR	TRANSFORMER
		SPD	SURGE PROTECTION DEVICE

FIRE ALARM LEGEND

	DSD	DUCT SMOKE DETECTOR AND SAMPLE TUBE.		HORN-STROBE UNIT. SURFACE CEILING MOUNTED. 115 CANDELA.
	SD	SMOKE DETECTOR		FIRE ALARM MANUAL PULL STATION
	HD	HEAT DETECTOR		RECESSED "KNOX" BOX
	RI	LED REMOTE INDICATOR		REMOTE ANNUNCIATOR PANEL WITH KEYED FACP RESET. RECESSED. (DUCT SMOKE DETECTORS SHALL BE ABLE TO BE RESET FROM "RAP").
	F	HORN-STROBE UNIT. MOUNT AT 80" ABOVE FLOOR OR 6" BELOW CEILING, WHICHEVER IS LOWER UNLESS NOTED OTHERWISE. 75 CANDELA UNLESS NOTED OTHERWISE. "LD" INDICATES LOW DECIBEL. RECESSED.		FIRE ALARM CONTROL PANEL
	F	STROBE ONLY UNIT. MOUNT AT 80" ABOVE FLOOR OR 6" BELOW CEILING WHICHEVER IS LOWER UNLESS NOTED OTHERWISE. 75 CANDELA UNLESS NOTED OTHERWISE. RECESSED.		FIRE ALARM TERMINAL CABINET
	R	ADDRESSABLE RELAY		RED FIRE ALARM BEACON
				MASTER BOX
				FAN RELAY

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	PULL BOX	
	DUPLEX RECEPTACLE 20A, 125V. - 'WP' INDICATES WEATHER PROOF; GF INDICATES GROUND FAULT INTERRUPTER TYPE.	45"
	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE 20A, 125V. 'AC' INDICATES MOUNTED 'ABOVE COUNTER'.	
	TELECOMMUNICATIONS OUTLET WITH 1" EMPTY CONDUIT TO TELECOMMUNICATIONS EQUIPMENT.	18"/48"
	MICROWAVE TELEPHONE OUTLET	48"
	RADIO TELEPHONE OUTLET	48"
	WALL OUTLET FOR RADIO SYSTEM SPEAKER	7'-6"
	PUSHBUTTON FOR DOORBELL	48"
	MOTOR CONNECTION REFER TO MECH. DWG'S FOR DETAILS	
	DISCONNECT SWITCH-FUSED TYPE, AND NON-FUSED TYPE, AS NOTED.	48"
	PANELBOARD SURAFCE MOUNTED & RECESSED	6'-6" TO TOP
	COMMUNICATIONS EQUIPMENT BACKBOARD	
	CONDUIT IN OR ABOVE CEILING OR WALL (NO. OF TICKS INDICATE NO. OF CONDUCTORS 2#12+1#12 GRD. IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED	
	HOMERUN TO PANEL, ARROW INDICATES NO. OF CIRCUITS (NO. OF TICKS INDICATE NO. OF CONDUCTORS 2#12+1#12 GRD. IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED	
	SURGE PROTECTION DEVICE	
	CONDUIT IN OR UNDER FLOOR	
	UNDERGROUND ELEC CONDUIT/DUCTBANK	
	UNDERGROUND COMMUNICATIONS CONDUIT/DUCTBANK	
	CLOCK RECEPTACLE	7'-0"
	COMPUTER SYSTEM OUTLET (PROVIDE BLANK COVER PLATE)	18"
	THERMOSTAT (BY MECHANICAL)	
	DOORBELL	
	JUNCTION BOX	
	PHOTO-CELL	
	SEE DRAWING NOTE OF SAME NUMBER	
	MAGNETIC MOTOR STARTER-COMBINATION DISCONNECT TYPE	48"
	20AMP-(125VOLT SURGE SUPPRESSING TYPE) DUPLEX RECEPTACLE	18"
	MANUAL MOTOR STARTER WITH INTEGRAL THERMAL OVERLOAD PROTECTION ( 'P' INDICATES WITH "PILOT LIGHT")	48" (IF WALL MTD)
	GROUNDING ELECTRODE	
	GROUNDING ELECTRODE TRIAD	
	GROUND TEST WELL (SEE DETAIL	
	SPECIAL PURPOSE OUTLET AS NOTED ON DRAWINGS	



- GENERAL NOTES:**
1. ALL EXISTING UNDERGROUND LINES AND EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES, STORM LINES, SEWER LINES AND/OR ANY OTHER EXISTING UNDERGROUND LINES OR EQUIPMENT LOCATIONS AND DEPTHS IN GENERAL VICINITY OF PROPOSED TRENCH AREAS. SPECIAL CARE BE TAKEN WHILE PERFORMING TRENCH WORK WITHIN THESE AREA.
  2. CONTRACTOR SHALL COORDINATE ALL CONDUITS IN BOOTHS - SEE ELECTRICAL PLANS AT BOOTHS.
  3. ALL UNDERGROUND CONDUITS SHALL BE GROUNDED FOR CONCRETE ENCASEMENT (TYP).
  4. LEAVE 1' OF SEPARATION BETWEEN NEW DUCTBANKS AND UNDERDRAIN OR OTHER UTILITIES.
  5. 6" MINIMUM BURIAL DEPTH FOR ALL NEW R.G.S. CONDUITS IN ISLAND.
  6. ADDITIONAL CONDUITS FOR DATA AND COMMUNICATIONS ARE NOT SHOWN. REFER TO TOLLING DRAWINGS.

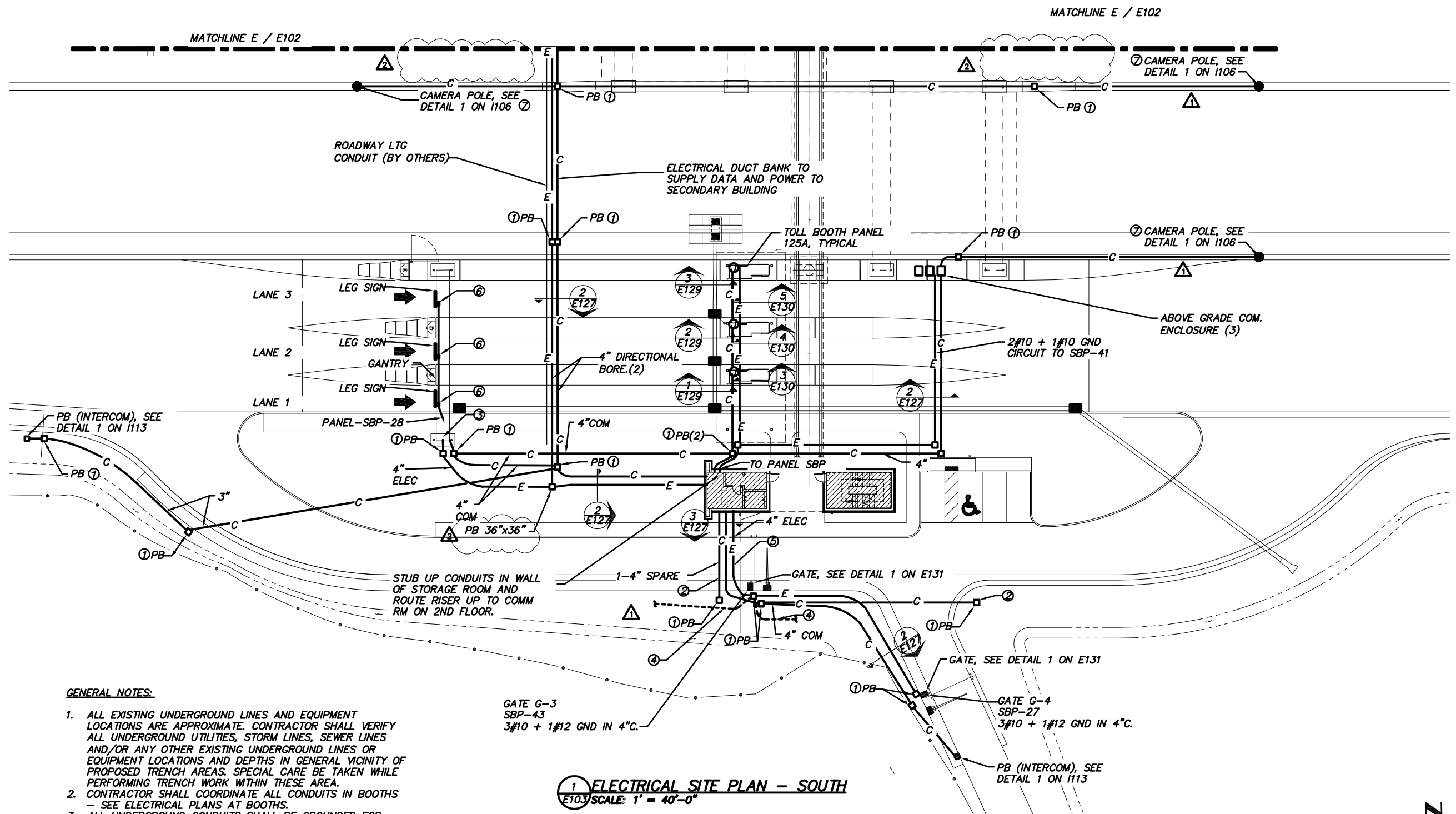
- KEY NOTES:**
1. 24"x24"x36"D IN-GRADE POLYMER PULLBOX WITH BOTTOM AND GRAVEL DRAIN.
  2. PROVIDE (2) SPARE 2" CONDUITS IN DUCT BANK. ROUTED FROM BOOTH TO BOOTH; TURN UP AND CAP INSIDE OF EACH BOOTH. LABEL CONDUITS AS SPARE WITH LOCATION OF OTHER END.
  3. 4" PVC CONDUIT SHALL BE TURNED UP INSIDE ELECTRIC ROOM, TRANSITION FROM PVC CONDUIT TO EMT AND ROUTE ABOVE CEILING TO MAIN COM ROOM.
  4. PROVIDE AN EMPTY PULLBOX (18"x18") WITH (2) 3" CONDUITS ROUTED TO PANEL PB-M1 IN ELECTRICAL ROOM FOR ROADWAY LIGHTING. ROADWAY LIGHTING CIRCUITS BY OTHERS.
  5. PROVIDE A 4" Ø CONDUIT FROM THE PB TO THE BUILDING THE 39-20-02 CONTRACTOR WILL RUN THE LIGHTING CIRCUIT INTO THE BUILDING/PANEL.
  6. PROVIDE COM AND POWER TO DVAS CAMERA WITH 20' OF SLACK FOR TERMINATION BY TCS INTEGRATOR. THE POLE FOUNDATION, POLE, AND CONDUIT SHALL BE PROVIDED BY 39-20-02.

**1 ELECTRICAL SITE PLAN - NORTH**  
E102 SCALE: 1" = 40'-0"

<b>DESIGN AGENCY</b> <b>PRIME</b> 540 White Pond Drive, Ste. E Cincinnati, OH 45240 (313)-864-7755	REVISIONS	NO.	1	2
	BY	DATE	CK	CK
	ADDENDUM NO. 2	ADDENDUM NO. 3		
	CHECKED	DESIGNED	DRAWN	IN CHARGE
	CEK	RNS	CEK	RNS
<b>ELECTRICAL SITE PLAN - NORTH</b>		LUCAS COUNTY		TOLL PLAZA 49
PROJECT	58-20-01	DATE:	04/22/2020	E102
				152 202

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION**

**OHIO TURNPIKE**



#### GENERAL NOTES:

1. ALL EXISTING UNDERGROUND LINES AND EQUIPMENT LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES, STORM LINES, SEWER LINES AND/OR ANY OTHER EXISTING UNDERGROUND LINES OR EQUIPMENT LOCATIONS AND DEPTHS IN GENERAL VICINITY OF PROPOSED TRENCH AREAS. SPECIAL CARE BE TAKEN WHILE PERFORMING TRENCH WORK WITHIN THESE AREA.
2. CONTRACTOR SHALL COORDINATE ALL CONDUITS IN BOOTHS - SEE ELECTRICAL PLANS AT BOOTHS.
3. ALL UNDERGROUND CONDUITS SHALL BE GROUNDED FOR CONCRETE ENCASEMENT (TYP).
4. LEAVE 1' OF SEPARATION BETWEEN NEW DUCTBANKS AND UNDERDRAIN OR OTHER UTILITIES.
5. 6" MINIMUM BURIAL DEPTH FOR ALL NEW R.G.S. CONDUITS IN ISLAND.
6. ADDITIONAL CONDUITS FOR DATA AND COMMUNICATIONS ARE NOT SHOWN. REFER TO TOLLING DRAWINGS.

#### KEY NOTES:

1. 24"x24"x36"D IN-GRADE POLYMER PULLBOX WITH BOTTOM AND GRAVEL DRAIN.
2. PROVIDE (1) 4" EMPTY PVC CONDUIT WITH PULL STRING FOR FUTURE USE.
3. POWER AND COMM CONDUITS SHALL BE TURNED UP AND ROUTED UP GANTRY SUPPORT STRUCTURE AND ROUTED ACROSS GANTRY FRAMING TO DEVICES, REFER TO GANTRY ELECTRICAL/IT DETAILS ON 1114.
4. LIGHTING CONDUIT, AND WIRING INSTALLED BY 39-20-02 CONTRACTOR.
5. PROVIDE A 4" CONDUIT FROM THE PB TO THE BUILDING FOR THE GATE CIRCUIT AND LIGHTING. THE 39-20-02 CONTRACTOR WILL RUN THE LIGHTING CIRCUIT INTO THE BUILDING/PANEL.

6. PROVIDE 208V, 2PST NFSS, NEMA 4 SS, MOUNTED BEHIND LED SIGN ON TRUSS. PROVIDE A 15' LIQUID-TIGHT WHIP FOR CONNECTION TO LEF SIGN BY 39-20-02 CONTRACTOR.
7. PROVIDE COM AND POWER TO DVAS CAMERA WITH 20' OF SLACK FOR TERMINATION BY TCS INTEGRATOR. THE POLE FOUNDATION, POLE, AND CONDUIT SHALL BE PROVIDED BY 39-20-02.

**1 ELECTRICAL SITE PLAN - SOUTH**  
E103 SCALE: 1" = 40'-0"



GENERAL NOTES

1. SEE ELECTRICAL, STRUCTURAL, MECHANICAL, CIVIL, AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

2. THE CONTACT DRAWINGS INDICATE THE GENERAL ARRANGEMENT FOR THE COMMUNICATIONS AND SECURITY SYSTEMS.

3. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE NECESSARY OFFSETS, OBSTRUCTIONS, OR STRUCTURAL CONDITIONS.

4. ALL WORKING SHALL CONFORM TO REQUIREMENTS OF THE SPECIFICATIONS, CONTRACT DRAWINGS, LATEST EDITION OF THE NFPA, THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE REGULATIONS OF OTHER AUTHORITIES HAVING JURISDICTION.

5. CONDUITS, JUNCTION BOXES AND OTHER EQUIPMENT INSTALLED SHALL NOT INTERFERE WITH THE OPERATION OF WINDOWS, DOOR, ETC.

6. CAREFULLY CHECK SPACE REQUIREMENTS, INCLUDING SERVICING SPACE REQUIREMENTS, TO ENSURE THAT ALL EQUIPMENT AND MATERIALS CAN BE INSTALLED IN SPACES ALLOTTED THERETO, AND MEETS N.E.C. REQUIREMENTS FOR WORKING CLEARANCE.

7. COMMUNICATION AND SECURITY CABLES SHALL BE INSTALLED IN CONFORMANCE WITH SPECIFICATIONS.

8. GROUNDED SYSTEM FOR COMMUNICATION AND SECURITY ENCLOSURES , CABINETS, EQUIPMENT, JUNCTION BOXES AND ANY OTHER EQUIPMENT OR APPARATUS SHALL COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

9. PROVIDED ALL CORE DRILLS NECESSARY FOR COMMUNICATION AND POWER CONDUIT ROUTING, PROPERLY SEAL ALL PENETRATIONS. INSTALL FIRE STOPPING FOR CORE DRILLS WHERE REQUIRED BY CODE.

10. CABLES CONNECTING IP DEVICES TO THE SWITCHES ARE NOT TO EXCEED 328 FEET IN LENGTH, INCLUDING ALL PATCH/JUMPER CABLES.

11. INSTALL ETHERNET SURGE SUPPRESSOR ON CAT6 CABLE AT EACH END FOR EACH EXTERIOR DEVICE, GROUND ALL SURGE SUPPRESSORS.

12. ALL EXTERIOR DEVICES SHALL UTILIZE OUTSIDE PLANT RATED SHIELDED CATEGORY 6A-GEL FILLED CABLE WITH WATER BLOCKING UNLESS OTHERWISE SPECIFIED.

13. PROVIDE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR TO EACH PIECE OF COMMUNICATIONS AND SECURITY EQUIPMENT. PROVIDE A GROUND BAR ON EACH RACK, EACH RACK IS TO BE BE GROUNDED TO EARTH. RACK EQUIPMENT IS TO BE GROUNDED TO RACK. COMBINING GROUNDING CONDUCTORS, OR THE USE OF CONDUIT AS AN EQUIPMENT, COMBINING GROUNDING CONDUCTORS, OR THE USE OF CONDUIT AS AN EQUIPMENT GROUND, SHALL NOT BE PERMITTED.
14. ALL METALLIC CONDUITS AND RACEWAYS SHALL BE ELECTRICALLY CONTINUOUS AND GROUNDED.

15. CONTRACTOR TO PROVIDE ALL WIRING DEVICES REQUIRED BY N.E.C. INCLUDING, BUT NOT LIMITED TO DISCONNECT SWITCHES, ETC.

16. ALL DEVICES SHALL BE NETWORKED AND POE POWERED UNLESS OTHERWISE SPECIFIED. IP CAMERAS SHALL COMPLY TO IEEE 802.3AF. INCLUDE A HARDENED POE POWER BOOSTER TO ACHIEVE REQUIRED POWER , OR POWER THE CAMERA FROM A SEPARATE CAMERA POWER SUPPLY (PROVIDED THERE IS SUFFICIENT SPACE FOR POWER SUPPLY INSTALLATION).

17. 8"H X 4"W X 3/4" T GRADE ACX PAINTED PLYWOOD SHALL BE PLACED ON DESIGNATED WALL OF THE COMMUNICATIONS ROOM. PLYWOOD SHALL BE PAINTED TWO COATS OF FIRE RETARDANT WHITE PAINT.

18. INSTALL CABLE TRAY WITH MINIMAL 12" CLEARANCE ABOVE AND ON ONE SIDE OF TRAY. TRAY SHALL HAVE A MINIMAL 3" CLEARANCE BELOW WHEN PLACED ABOVE LIGHTING FIXTURES OR ABOVE ACCESSIBLE CEILING SPACE.

19. BACK BOXES INSTALLED FOR COMMUNICATIONS DATA AND VOICE WIRING TERMINATION SHALL BE SINGLE GANG OUTLET BOXES TO ALLOW FOR THE REQUIRED WORKING CLEARANCE OF THE CAT6 CABLE. THESE BOXES SHALL BE SEPARATE FROM ELECTRICAL JUNCTION BOXES AND BE EXCLUSIVELY FOR DATA AND VOICE COMMUNICATIONS.

20. THE NUMBER OF HORIZONTAL CABLES PLACED IN A CABLE SUPPORT OR PATHWAY SHALL BE LIMITED TO A NUMBER OF CABLES THAT WILL NOT CAUSE THE GEOMETRIC SHAPE OF THE CABLES TO BE ALTERED UNDER NO CIRCUMSTANCES SHALL CABLES IN THE HORIZONTAL PATHWAY BE BUNDLED. THIS IS TO MINIMIZE "ALIEN" CROSS-TALK.

21. CONDUITS SHALL HAVE CONNECTORS, PROTECTIVE BUSHINGS, PULL STRINGS, AND SHALL BE GROUNDED.

22. ELECTRICAL CONTRACTOR SHALL ADHERE TO COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS SET FOURTH IN ANSI-TIA-569-C STANDARD.

23. ALL COMM. SHALL BE PROVIDED, INSTALLED AND TESTED IN THIS CONTRACT UNLESS OTHERWISE NOTED.

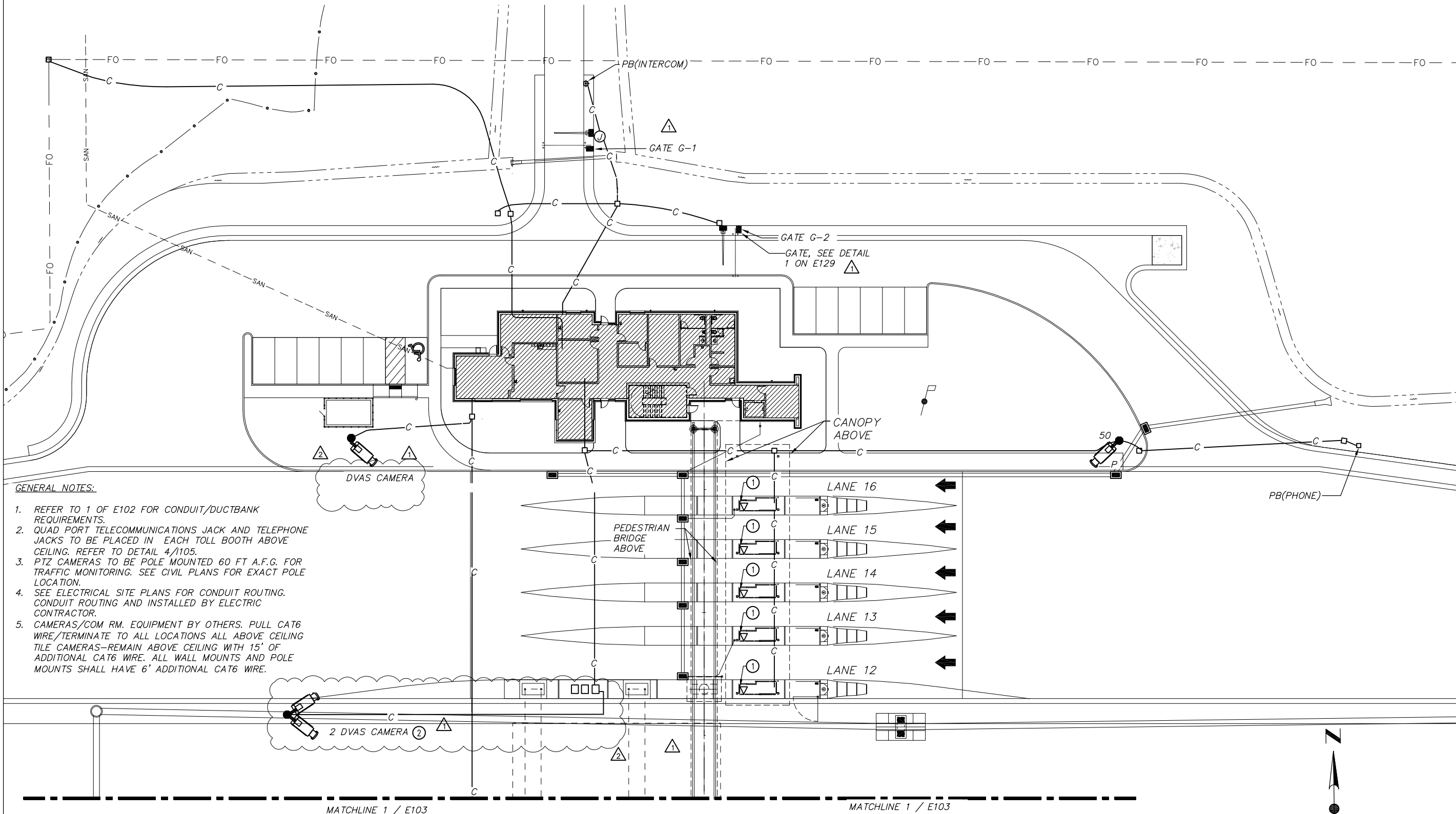
24. THE TCS INTEGRATOR WILL TERMINATE AND TEST ALL COMM. CABLING FOR THE TOLL COLLECTION SYSTEM. ANY COMM. CABLING THAT IS DAMAGED OR WILL NOT TEST CORRECTLY SHALL BE RE-INSTALLED BY THIS CONTRACT AT NO ADDITIONAL COST TO THE COMMISSION.

ITS ABBREVIATIONS

AFC	ABOVE FINISHED CEILING	ITC	VOIP INTERCOM
AFF	ABOVE FINISHED FLOOR	NEC	NATIONAL ELECTRIC CODE
AFG	ABOVE FINISHED GRADE	PBX	PRIVATE BRANCH EXCHANGE
CAT6	CATEGORY 6 CABLE	POE	POWER OVER ETHERNET
CCTV	CLOSED CIRCUIT TELEVISION	PSIM	PHYSICAL SECURITY INFORMATION MANAGEMENT
CKT	CIRCUIT	SFP	SMALL FORM-FACTOR PLUGGABLE
CL	CENTERLINE	VOIP	VOICE OVER INTERNET PROTOCOL
DWG	DRAWING		
EACS	ELECTRONIC ACCESS CONTROL SYSTEM		

ITS LEGEND

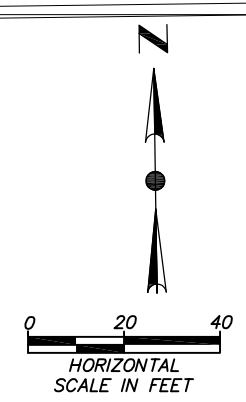
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	TELECOMMUNICATIONS QUAD JACK FACEPLATE OUTLET	18"
	VOIP INTERCOM	4'-0" TO CL
	WALL MOUNTED TELEPHONE OUTLET	48"
	DOME FIXED IP CAMERA ## - CAMERA NUMBER	7'-6" TO TOP
	FIXED IP CAMERA ## - CAMERA NUMBER	SEE DETAIL ON I111
	PAN/TILT/ZOOM IP CAMERA ## - CAMERA NUMBER	60' TO TOP
	180 DEGREE VIEW IP CAMERA ## - CAMERA NUMBER	7'-6" TO TOP
	PANELBOARD-SURAFCE MOUNTED	
	TELEPHONE EQUIPMENT BACKBOARD	2'-0" TO CL
	CONDUIT IN OR ABOVE CEILING OR WALL (NO. OF TICKS INDICATE NO. OF CONDUCT 2#12+1#12 GRD.-3/4" CONDUIT UNLESS OTHERWISE NOTED	
	HOMERUN TO PANEL. ARROW INDICATES NO. OF CIRCUITS (NO. OF TICKS INDICATE NO. OF CONDUCT 2#12+1#12 GRD.-3/4" CONDUIT UNLESS OTHERWISE NOTED	
	FLEXIBLE METAL CONDUIT CONCEALED IN CEILING OR WALL	
	CONDUIT IN OR BELOW FLOOR	
	UNDERGROUND TELEPHONE CONDUIT/DUCTBANK	
	JUNCTION BOX	
	SEE DRAWING NOTE OF SAME NUMBER	
	SP1 00	SECURE DIRECTION OF TRAVEL DOOR STYLE DOOR NUMBER



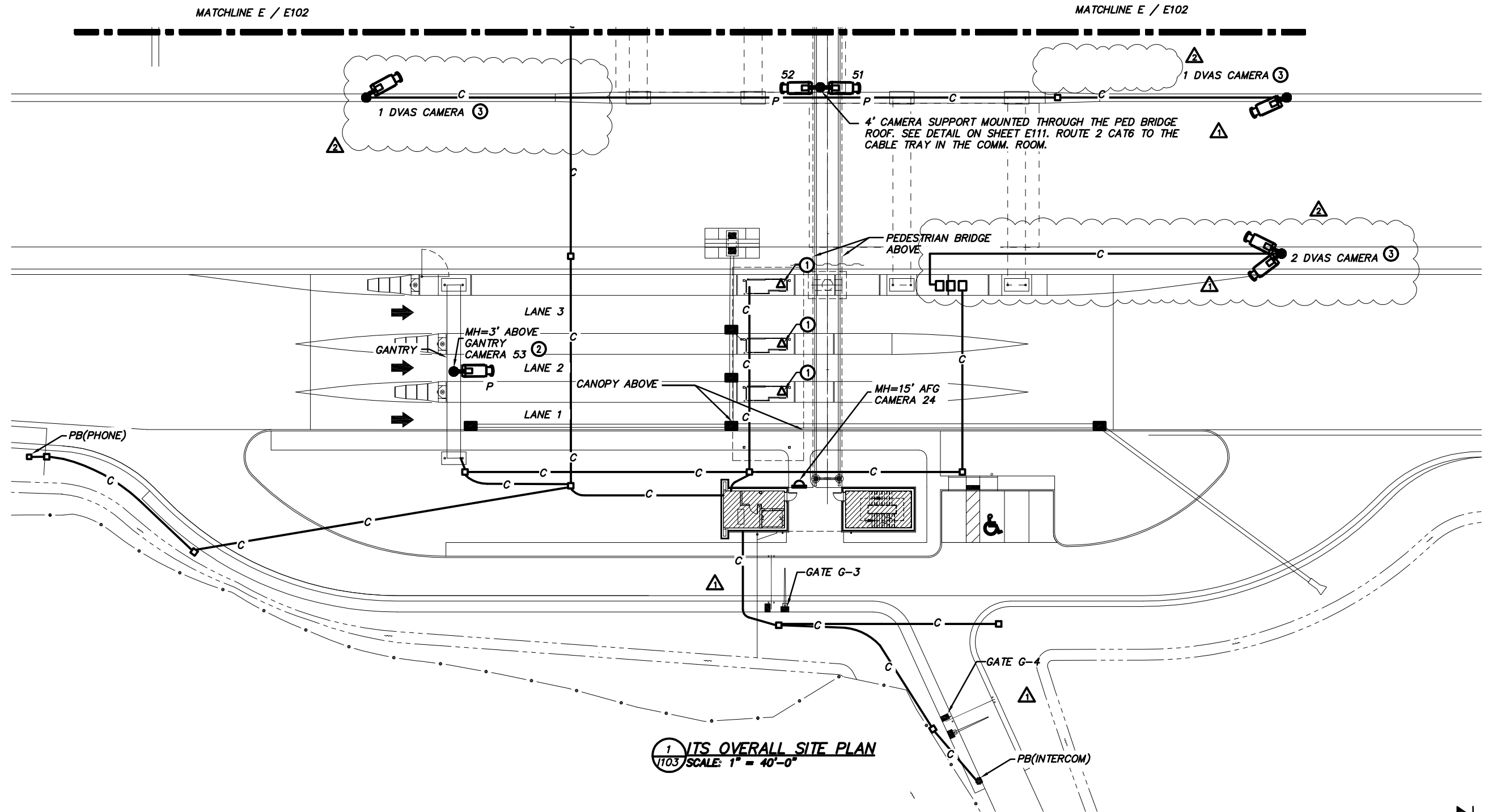
- GENERAL NOTES:**
1. REFER TO 1 OF E102 FOR CONDUIT/DUCTBANK REQUIREMENTS.
  2. QUAD PORT TELECOMMUNICATIONS JACK AND TELEPHONE JACKS TO BE PLACED IN EACH TOLL BOOTH ABOVE CEILING. REFER TO DETAIL 4/105.
  3. PTZ CAMERAS TO BE POLE MOUNTED 60 FT A.F.G. FOR TRAFFIC MONITORING. SEE CIVIL PLANS FOR EXACT POLE LOCATION.
  4. SEE ELECTRICAL SITE PLANS FOR CONDUIT ROUTING. CONDUIT ROUTING AND INSTALLED BY ELECTRIC CONTRACTOR.
  5. CAMERAS/COM RM. EQUIPMENT BY OTHERS. PULL CAT6 WIRE/TERMINATE TO ALL LOCATIONS ALL ABOVE CEILING TILE CAMERAS-REMAIN ABOVE CEILING WITH 15' OF ADDITIONAL CAT6 WIRE. ALL WALL MOUNTS AND POLE MOUNTS SHALL HAVE 6' ADDITIONAL CAT6 WIRE.

- KEY NOTES:**
1. PROVIDE 4 CAT6 DROPS WITH A JACK.
  2. PROVIDE COM AND POWER TO DVAS CAMERA WITH 20' OF SLACK FOR TERMINATION BY THE TCS INTEGRATOR. THE POLE FOUNDATION, POLE, AND CONDUIT SHALL BE PROVIDED BY 39-20-02.

1 ITS OVERALL SITE PLAN  
1102 SCALE: 1" = 40'-0"



PROJECT 58-20-01 DATE: 04/22/2020 1102	TOLL PLAZA 49 LUCAS COUNTY	ITS SITE PLAN	DESIGN AGENCY <b>PRIMEW</b> 540 White Pond Drive, Ste. E Cincinnati, OH 45240 (313)-864-7755	OHIO TURNPIKE	NO.	BY	DATE
					1	CK	5/12/20
					2	CK	5/15/20
					REVISIONS		
ADDENDUM No. 2			ADDENDUM No. 3				
CHECKED RNS			IN CHARGE CEK				
DESIGNED RNS			DRAWN RNS				
183 202			OHIO TURNPIKE				



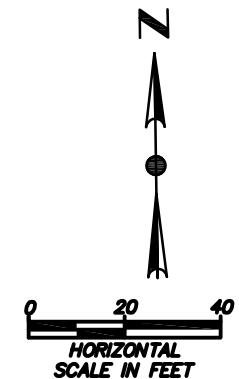
1 ITS OVERALL SITE PLAN  
1103 SCALE: 1" = 40'-0"

**GENERAL NOTES:**

1. REFER TO 1 OF E103 FOR CONDUIT/DUCTBANK REQUIREMENTS.
2. QUAD PORT TELECOMMUNICATIONS JACK AND TELEPHONE JACKS TO BE PLACED IN EACH TOLL BOOTH ABOVE CEILING. REFER TO DETAIL 4/1105.
3. PTZ CAMERAS TO BE POLE MOUNTED 60 FT A.F.G. FOR TRAFFIC MONITORING. SEE CIVIL PLANS FOR EXACT POLE LOCATION.
4. SEE ELECTRICAL SITE PLANS FOR CONDUIT ROUTING. CONDUIT ROUTING AND INSTALLED BY ELECTRIC CONTRACTOR.
5. CAMERAS/COM RM. EQUIPMENT BY OTHERS. PULL CAT6 WIRE/TERMINATE TO ALL LOCATIONS ALL ABOVE CEILING TILE CAMERAS-REMAIN ABOVE CEILING WITH 15' OF ADDITIONAL CAT6 WIRE. ALL WALL MOUNTS AND POLE MOUNTS SHALL HAVE 6' ADDITIONAL CAT6 WIRE.

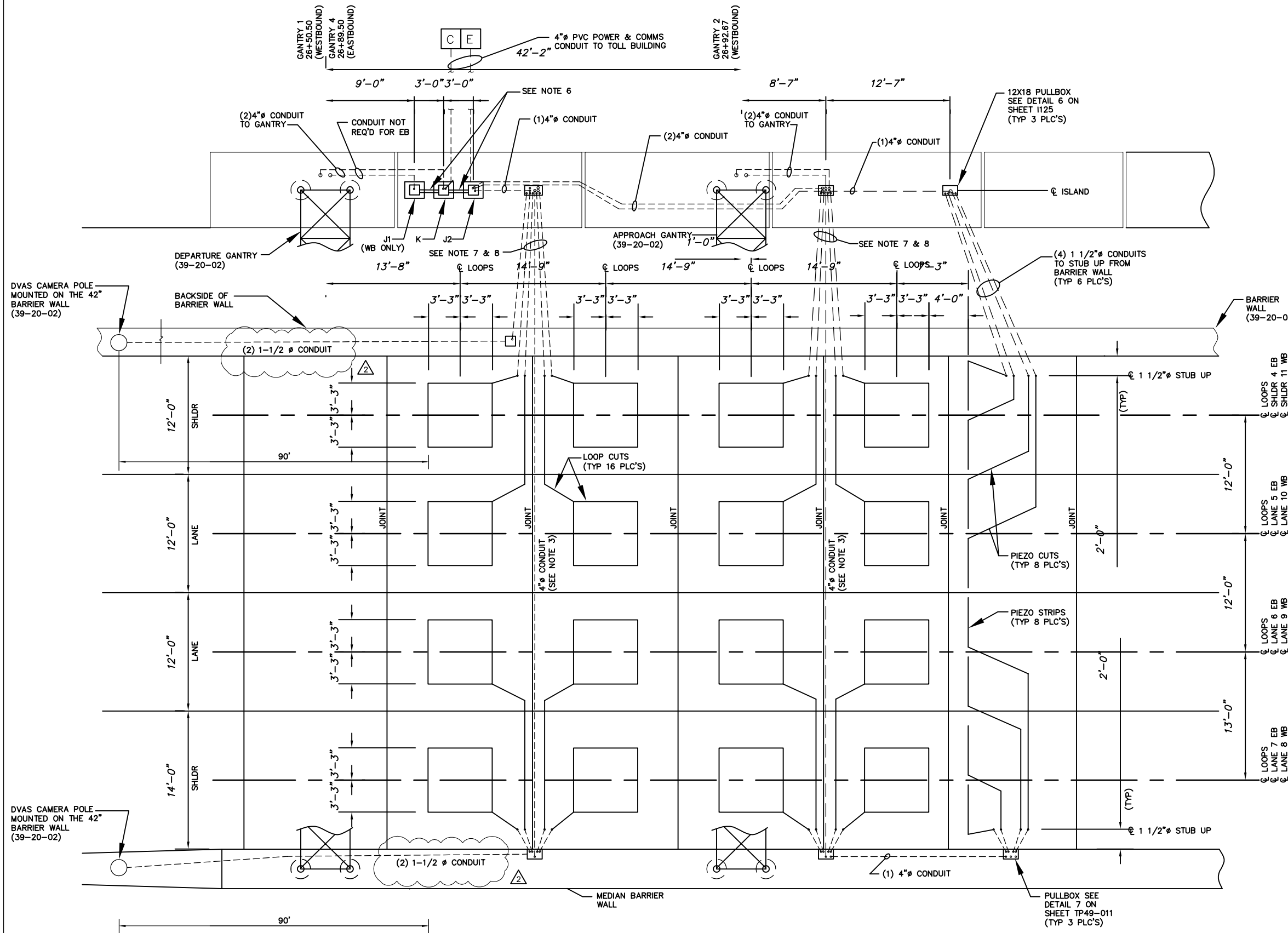
**KEY NOTES:**

1. PROVIDE 4 CAT6 DROPS WITH A JACK.
2. PROVIDE 2 PELCO-PN SP-5730 BRACKETS AND A 9' LONG -2"Ø GALVANIZED PIPE W/CAPS. ATTACH THE BRACKETS TO THE TOP AND BOTTOM CORD.
3. PROVIDE COM AND POWER TO DVAS CAMERA WITH 20' OF SLACK FOR TERMINATION BY THE TCS INTEGRATOR. THE POLE FOUNDATION, POLE, AND CONDUIT SHALL BE PROVIDED BY 39-20-02.



<div><div>184</div><div>202</div></div> <div>1103</div> <div>PROJECT 58-20-01</div> <div>DATE: 04/22/2020</div> <div>TOLL PLAZA 49</div>	ITS OVERALL SITE PLAN		LUCAS COUNTY						DESIGN AGENCY <b>PRIME</b> 540 White Pond Drive, Ste. E Akron, Ohio 44320 (330)-864-7755		<div><div>OHIO</div><div>TURNPIKE</div></div>		
DESIGNED	CHECKED	NO.	REVISIONS	BY	DATE								
RNS	CEK	1	CK	5/12/20									
		2	ADDENDUM No. 3	CK	5/15/20								
DRAWN	IN CHARGE												
RNS	CEK												
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION													
<div><div>OHIO</div><div>TURNPIKE</div></div>													





- ORT EQUIPMENT AT GRADE NOTES:**
1. ALL CONDUIT SHALL BE SCH 80 PVC UNLESS NOTED OTHERWISE.
  2. ALL STUB UP CONDUIT FOR ROADWAY SENSORS SHALL BE 1 1/2" SCH 80 PVC. ALL STUB UP CONDUIT SHALL BE ROUTED IN ROADWAY AGGREGATE BASE AND SHALL NOT PENETRATE SOIL CEMENT SUB-BASE.
  3. THE 3" CONDUIT CROSSING ORT ROADWAY SHALL HAVE 30" COVER FROM TOP OF PAVING. EXTEND 30" FROM BARRIER WALL TO JUNCTION BOX.
  4. ALL PULLBOXES SHALL BE PER OHIO STANDARD.
  5. CABINETS J1, K AND J2 ARE GROUND MOUNTED MCCAIN TRAFFIC CABINETS.
  6. GROUND MOUNTED CABINETS SHALL HAVE (2) 4" RIGID METAL CONDUIT TO CONNECT TO CABINETS ABOVE GRADE. CONDUIT SHALL BE FOR SEPARATE POWER AND COMMS AND SHALL BE LOCATED AT THE BOTTOM OF THE CABINETS.
  7. THE 39-20-02 CONTRACTOR IS INSTALLING THE ORT CONCRETE. ALL 4 GANTRIES OVER THE MAINLINE AND ALL UNDER GROUND CONDUIT WILL BE STUBBED OUT FROM THE BACKSIDE OF THE BARRIER WALL. EXTEND (4 OR 5) 1 1/2" CONDUITS AND (1) 4" CONDUIT FROM THE BARRIER WALL TO THE JUNCTION BOXES.
  8. THE 58-20-01 CONTRACTOR SHALL PROVIDE THE WIRE PER SHEET 1121.
  9. THE CONTRACTOR SHALL OMIT THE J1 CABINET AND ASSOCIATED GANTRY CONDUIT FOR THE EASTBOUND ORT ONLY. THE CABINET LOCATIONS AND CONDUIT FOR K AND J2 WILL REMAIN THE SAME.

WESTBOUND ORT EQUIPMENT AT GRADE (SHOWN)  
EASTBOUND ORT EQUIPMENT AT GRADE (OPP HAND MIRRORED)

DESIGN AGENCY  
**PRIMEW**  
540 White Pond Drive, Ste. E  
Cincinnati, OH 45220  
(313)-884-7755

PROJECT 58-20-01  
DATE: 04/22/2020  
1119

200  
202

NO. 1  
2

CHECKED  
CEK  
IN CHARGE  
CEK

DESIGNED  
RNS  
DRAWN  
RNS

REVISIONS  
ADDENDUM No. 2  
ADDENDUM No. 3

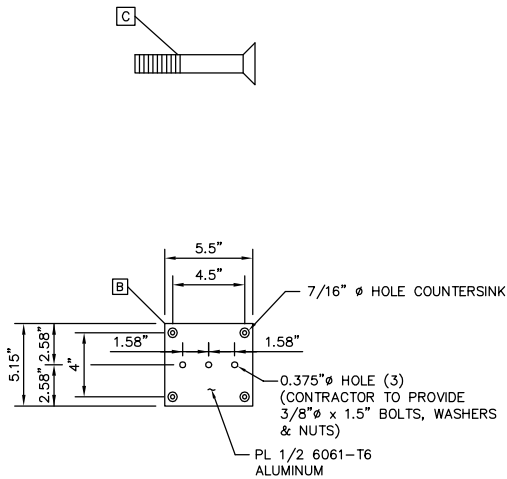
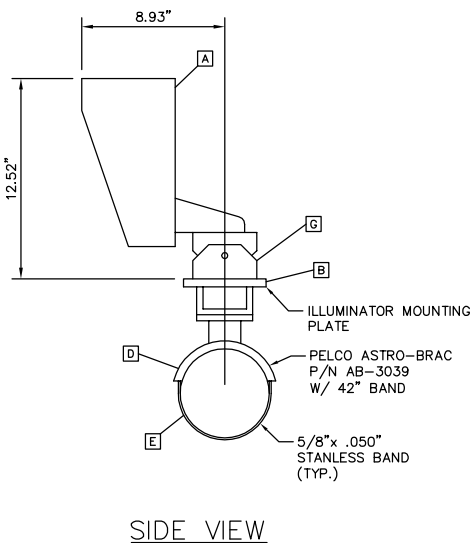
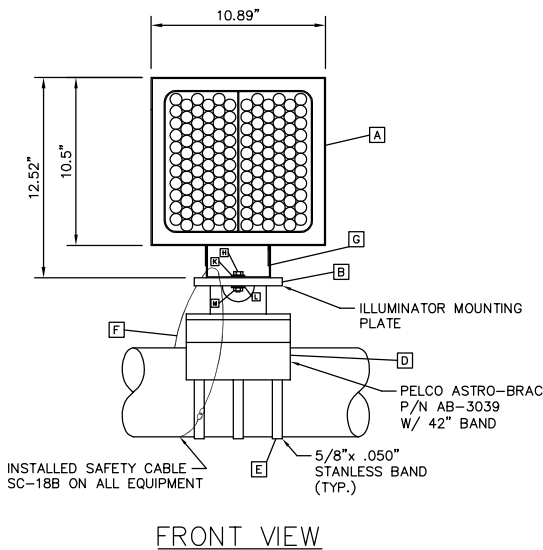
BY  
CK  
CK

DATE  
5/12/20  
5/15/20

TYPICAL ORT OVERHEAD EQUIPMENT  
TOLL PLAZA 49  
LUCAS COUNTY

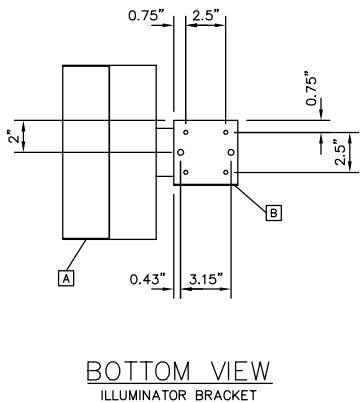
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE



ILLUMINATOR MOUNTING PLATE

NOTE:  
1. ALL MOUNTING BRACKS AND HARDWARE SHALL BE PROVIDED BY THE INTERGRATOR AND INSTALLED BY THE 58-20-01 CONTRACTOR.



BOTTOM VIEW  
ILLUMINATOR BRACKET

POS.	DESCRIPTION
A	ILLUMINATOR TNL 50
B	ILLUMINATOR MOUNTING PLATE SERIES 1
C	BOLTS, PHILLIPS COUNTERSUNK 3/8"x16X1.25" ASTM F879 SS
D	PELCO ASTRO-BRAC P/N AB-3039 W/42" BAND 6061-T6 ALUMINUM
E	5/8"x .050" STANLESS BAND 6061-T6 ALUMINUM
F	SAFETY CABLE SC-18B
G	ADJUSTABLE ILLUMINATOR BRACKET
H	HEX HEAD BOLT 1/4"x20X1.5" ASTM F593 SS
K	FLAT WASHER 1/4" SS 304
L	LOCK NUT 1/4" SS 304
M	HEX NUT 1/4" ASTM F594 SS
N	
P	
Q	
R	
S	
T	

ILLUMINATOR MOUNTING DETAILS  
(GANTRY)

ENTIRE SHEET