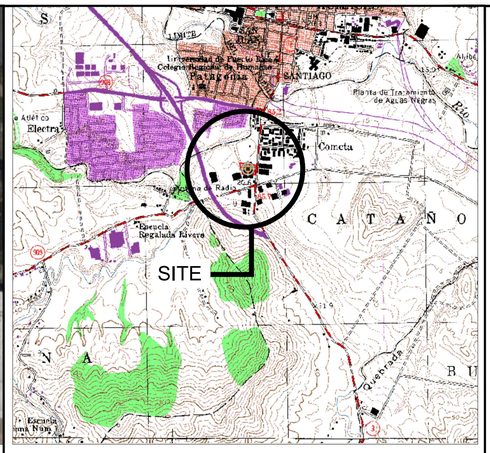
DRIVEWAY CONSTRUCTION FOR BUILDING T-0436-1-62-00,

AREA INDUSTRIAL BARRIO CATAÑO PR-3 KM 83
HUMACAO, PUERTO RICO



SITE PLAN:

SCALE: 1:1,000



QUADRANGLE MAP:

SCALE: 1:20,000

Coord. Nad83 X =264067.394 Y =234091.150

GENERAL NOTES

1. IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE CONSTRUCTION DRAWINGS, SPECIFICATIONS OR ANY REFERRED STANDARD, THE MORE RESTRICTIVE PROVISION SHALL APPLY.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND BEFORE ORDERING ANY MATERIAL. DIFFERENCES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF ENGINEER AND NO ACTION SHALL BE TAKEN UNTIL APPROVED BY ENGINEER.
3. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS, IN WHOLE OR IN PART, OF DRAWINGS PREPARED BY ENGINEER. SHOP DRAWINGS SHALL BE PREPARED ENTIRELY BY MANUFACTURER, FABRICATOR OR INSTALLER BASED ON INFORMATION WITHIN THESE DRAWINGS.
4. ALL DIMENSIONS PERTAINING TO EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE STARTING ANY WORK OR FABRICATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING FEATURES WHICH ARE NOT PART OF THE CONSTRUCTION. IN THE EVENT OF ANY DAMAGE, CONTRACTOR SHALL RESTORE OR REPLACE THE DAMAGED FEATURES TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE AT NO COST.
6. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
7. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
8. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
9. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.

CIVIL PLANS INDEX OF DRAWINGS

C-1.0 TITLE SHEET & INDEX
C-1.1 AS-BUILT & TOPOGRAPHIC PLAN
C-1.2 DEMOLITION PLAN
C-2.0 GEOMETRIC PLAN
C-3.0 GRADING & DRAINAGE PLAN
C-3.1 GRADING SECTIONS
C-4.0 CIVIL DETAILS

Project Name

DRIVEWAY CONSTRUCTION FOR BUILDING T-0436-I-62, HUMACAO MUNICIPALITY, PR.

Owner:

COMPANIA DE FOMENTO INDUSTRIAL DE PUERTO RICO.

PRIDCO Ave. Roosevelt
No. 355 Hato Rey, Puerto Rico 00918

Consultant:

LOGISTIC ENGINEERING CONSULTANTS, CSP
BOX 9023460,
San Juan, PR 00902-0460
logisticengineringcsp@gmail.com

Consultant:

Surveyor:

-

Wilfredo Manuel Rodriguez Ubiñas
Ingeniero Licenciado
Lic. 13719 PE
Puerto Rico
Fecha de Expiración: 2027-08-14

Engineer Signature Seal

NO.	REVISION	BY	DATE
0	00	--	00

CONSTRUCTION DRAWING REVISIONS

CERTIFICACION:

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Lambert Coordinates

X =264076.586 Y = 234087.817
Output NAD83

Drawing Title:

TITLE SHEET & INDEX

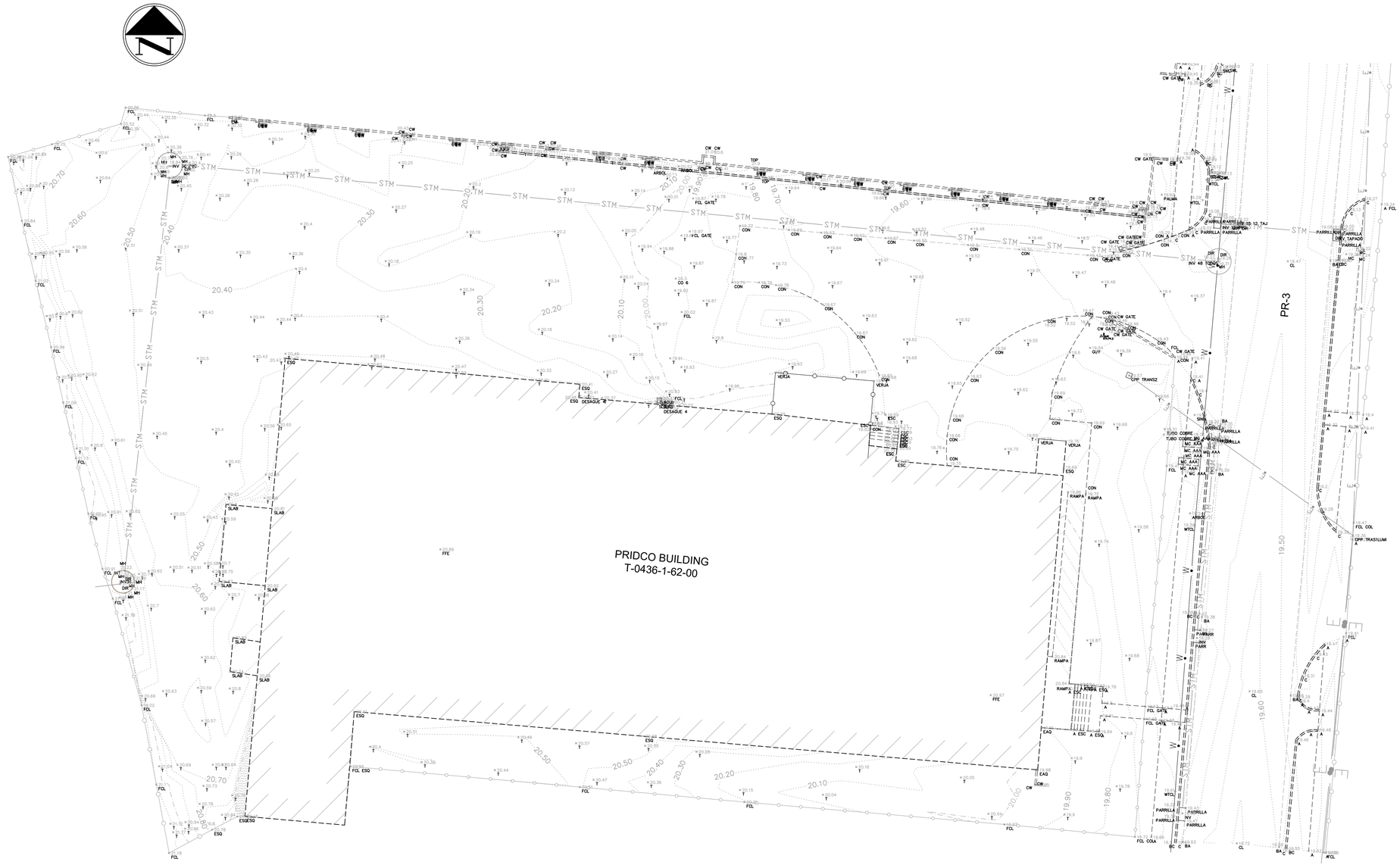
Drawn by: AMG

Scale: AS-SHOWN

Drawing number: C-1.0

Date:

File name:



LEGEND

- EXISTING EDGE OF PAVEMENT
- EXISTING CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE WITH CONC. BASE
- EXISTING STRUCTURE

AS-BUILT & TOPOGRAPHIC PLAN

SCALE: 1: 200

GILBERTO GONZALEZ CORDERO
AGRIMENSOR
LICENCIADO
LIC.9463 PS
PUERTO RICO

Fecha de Expiración: 02-14-2028

CERTIFICATION :

I , SURVEYOR, CERTIFY THIS

SURVEY WAS PERFORMANCED UNDER MY DIRECT SUPERVISION

GILBERTO GONZALEZ CORDERO

SURVEYOR

PROFESSIONAL LAND SURVEYOR LIC.

SPECIAL DIGITAL STAMP (SDS)

COLEGIO DE INGENIEROS Y AGRIMENSORES DE PUERTO RICO

ESTAMPILLA DIGITAL ESPECIAL (EDE)

Ing. Wilfredo M Rodriguez Ubinas, PE

Práctica de:	Ingeniería
Tipo de Navegante:	Documento
Descripción del Trabajo:	Realización de Estudios de Ingeniería
Fecha de Emisión:	07/23/2026
Monto Emitido:	$8
Número de Serie:	SIMB-3427-7835-7900
Número de Caso:	0001
Proyecto / Unidad:	Building T-0436-1-62 Humacao PRIDCO
Rol del Profesional:	Consultor

Certificación:

El profesional certifica con la emisión de la estampilla digital especial del Colegio de Ingenieros y Agrimensores de Puerto Rico el haber cumplido con las disposiciones de la Sección 11 de la Ley 319 del 15 de mayo de 1938, según enmendada.

La colocación del sello profesional constituye la cancelación de la estampilla digital especial

Project Name

DRIVEWAY CONSTRUCTION FOR BUILDING T-0436-I-62, HUMACAO MUNICIPALITY, PR.

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Output NAD83

Drawing Title:

AS-BUILT & TOPOGRAPHIC PLAN

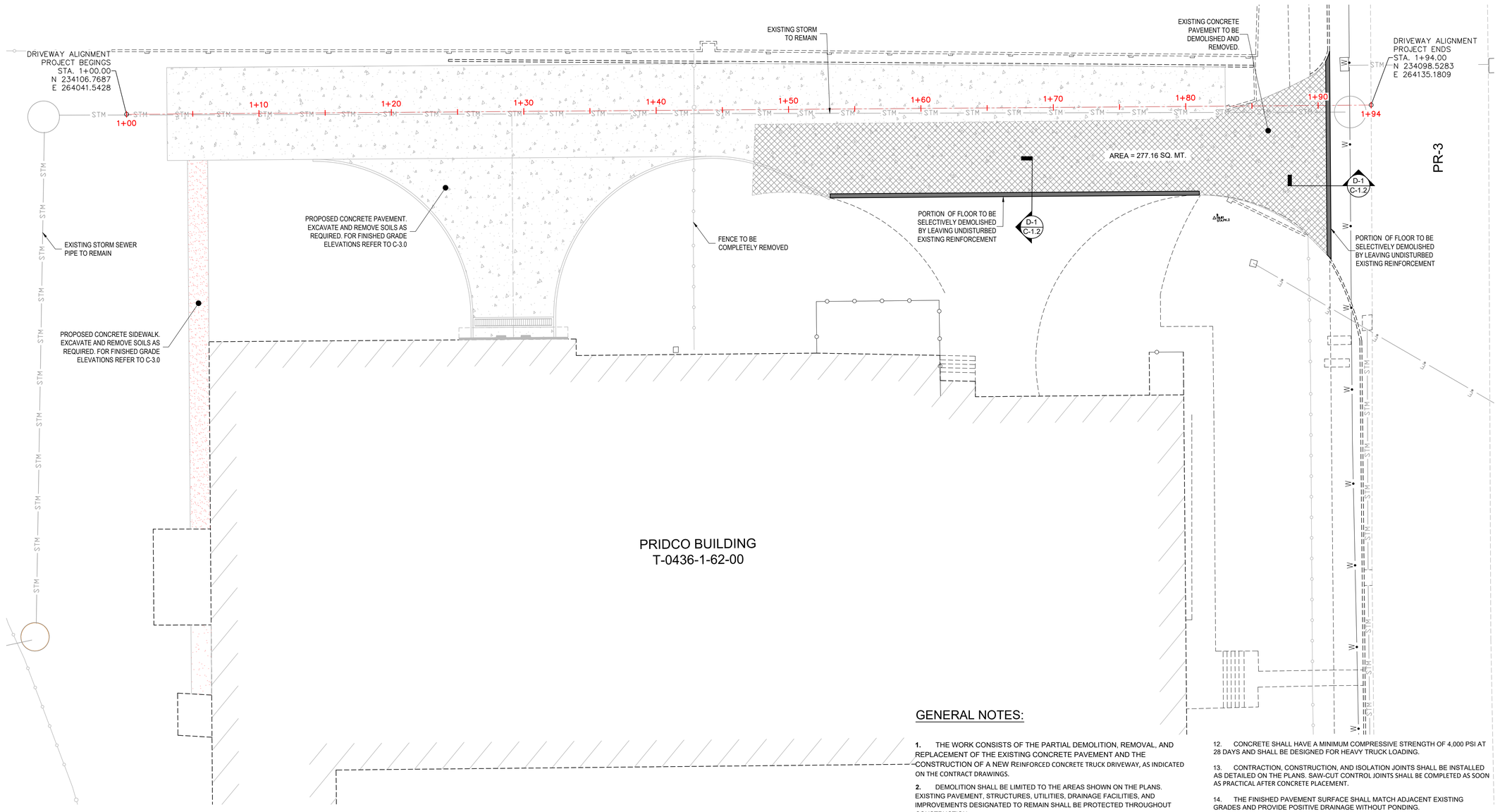
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Drawing number: C-1.1

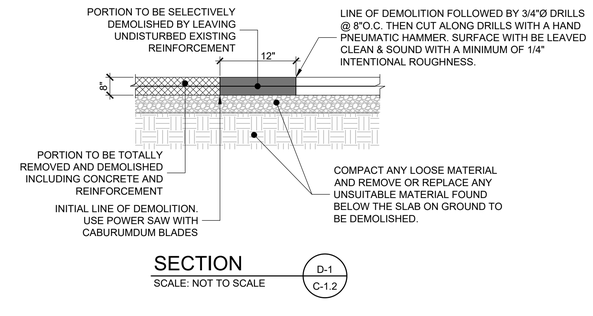
Date:

File name:



DEMOLITION PLAN LEGEND

- EXISTING CONDITION
- PROPERTY LIMIT
- STM — EXISTING STORM SEWER PIPE TO REMAIN
- EXISTING CONC. PAVEMENT TO BE DEMOLISHED
- PROPOSED CONCRETE PAVEMENT
- PROPOSED CONCRETE SIDEWALK



SECTION

SCALE: NOT TO SCALE

D-1
C-1.2

DEMOLITION PLAN

SCALE: 1:150

GENERAL NOTES:

1. THE WORK CONSISTS OF THE PARTIAL DEMOLITION, REMOVAL, AND REPLACEMENT OF THE EXISTING CONCRETE PAVEMENT AND THE CONSTRUCTION OF A NEW REINFORCED CONCRETE TRUCK DRIVEWAY, AS INDICATED ON THE CONTRACT DRAWINGS.

2. DEMOLITION SHALL BE LIMITED TO THE AREAS SHOWN ON THE PLANS. EXISTING PAVEMENT, STRUCTURES, UTILITIES, DRAINAGE FACILITIES, AND IMPROVEMENTS DESIGNATED TO REMAIN SHALL BE PROTECTED THROUGHOUT CONSTRUCTION.

3. THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS, DIMENSIONS, ELEVATIONS, AND UNDERGROUND UTILITIES PRIOR TO COMMENCING DEMOLITION OR EXCAVATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER BEFORE PROCEEDING.

4. SAWCUT ALL DEMOLITION LIMITS USING A DIAMOND BLADE TO PRODUCE NEAT, STRAIGHT, AND CLEAN EDGES. RANDOM BREAKING OF EXISTING CONCRETE WILL NOT BE PERMITTED.

5. CONCRETE REMOVAL SHALL BE PERFORMED USING LOW-IMPACT EQUIPMENT TO MINIMIZE VIBRATION AND PREVENT DAMAGE TO ADJACENT PAVEMENT AND STRUCTURES.

6. EXISTING REINFORCEMENT DESIGNATED TO REMAIN SHALL NOT BE DAMAGED DURING DEMOLITION. WHERE REINFORCEMENT IS EXPOSED, IT SHALL BE THOROUGHLY CLEANED AND PROTECTED PRIOR TO PLACEMENT OF NEW CONCRETE.

7. DOWELS SHALL BE DRILLED AND EPOXY ANCHORED INTO THE EXISTING CONCRETE PAVEMENT AS DETAILED ON THE PLANS. HOLES SHALL BE CLEANED IN ACCORDANCE WITH THE EPOXY MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION.

8. UNSUITABLE, SOFT, LOOSE, OR UNSTABLE MATERIAL ENCOUNTERED BELOW THE EXISTING PAVEMENT SHALL BE REMOVED AND REPLACED WITH APPROVED STRUCTURAL FILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

9. STRUCTURAL FILL BENEATH THE PROPOSED PAVEMENT SHALL CONSIST OF AASHTO A-2-4 SOIL OR BETTER AND SHALL BE COMPACTED TO NOT LESS THAN 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557), UNLESS OTHERWISE NOTED.

10. AGGREGATE BASE, WHERE REQUIRED, SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS PRIOR TO CONCRETE PLACEMENT.

11. THE NEW REINFORCED CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PAVEMENT DETAILS SHOWN ON THE CONTRACT DRAWINGS, INCLUDING REINFORCEMENT, THICKNESS, JOINT LAYOUT, AND CONCRETE STRENGTH REQUIREMENTS.

12. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND SHALL BE DESIGNED FOR HEAVY TRUCK LOADING.

13. CONTRACTION, CONSTRUCTION, AND ISOLATION JOINTS SHALL BE INSTALLED AS DETAILED ON THE PLANS. SAW-CUT CONTROL JOINTS SHALL BE COMPLETED AS SOON AS PRACTICAL AFTER CONCRETE PLACEMENT.

14. THE FINISHED PAVEMENT SURFACE SHALL MATCH ADJACENT EXISTING GRADES AND PROVIDE POSITIVE DRAINAGE WITHOUT PONDING.

15. EXISTING DRAINAGE STRUCTURES, TRENCH DRAINS, MANHOLES, AND UTILITY FACILITIES DESIGNATED TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

16. DEMOLISHED CONCRETE, UNSUITABLE MATERIAL, AND ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.

17. THE CONTRACTOR SHALL MAINTAIN SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGHOUT CONSTRUCTION AND SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL DEVICES, BARRICADES, WARNING SIGNS, AND TEMPORARY PROTECTION.

18. UPON COMPLETION OF CONSTRUCTION, ALL DISTURBED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION.

Project Name

DRIVEWAY CONSTRUCTION FOR BUILDING T-0436-I-62, HUMACAO MUNICIPALITY, PR.

Owner:

COMPANIA DE FOMENTO INDUSTRIAL DE PUERTO RICO.

PRIDCO Ave. Roosevelt
No. 355 Hato Rey, Puerto Rico 00918

Consultant:

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Consultant:

Surveyor:

-

Wilfredo Manuel Rodriguez Urbina
Ingeniero
Licenciado
Lic. 13719 PE
Puerto Rico
Fecha de Expiración: 2027-08-14

Engineer Signature Seal

NO.	REVISION	BY	DATE

CONSTRUCTION DRAWING REVISIONS

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Lambert Coordinates

X =264076.586 Y = 234087.817
Output NAD83

Drawing Title:

DEMOLITION PLAN

Drawn by:

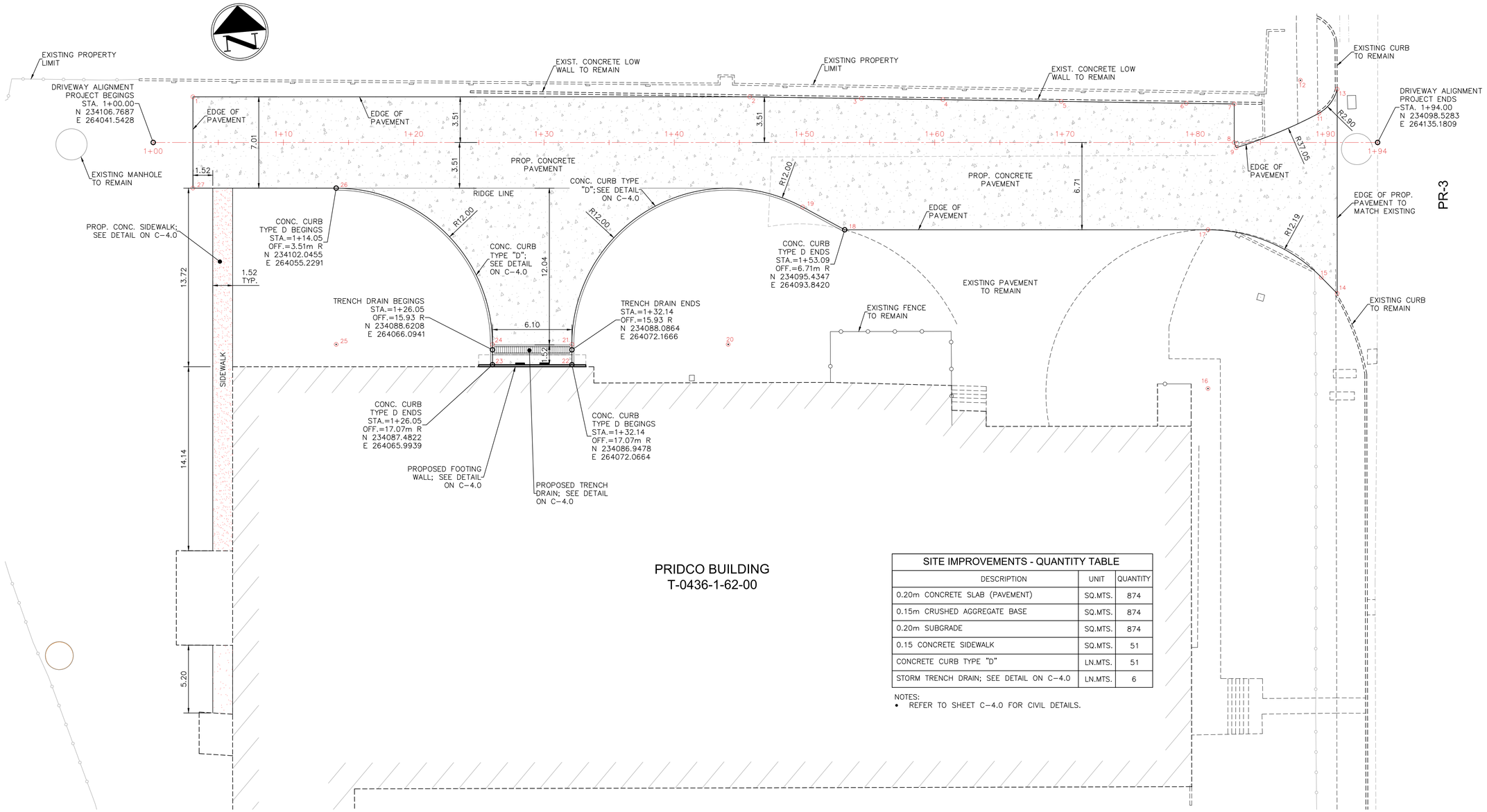
Scale:

Drawing number:

C-1.2

Date:

File name:



PRIDCO BUILDING
T-0436-1-62-00

SITE IMPROVEMENTS - QUANTITY TABLE		
DESCRIPTION	UNIT	QUANTITY
0.20m CONCRETE SLAB (PAVEMENT)	SQ.MTS.	874
0.15m CRUSHED AGGREGATE BASE	SQ.MTS.	874
0.20m SUBGRADE	SQ.MTS.	874
0.15 CONCRETE SIDEWALK	SQ.MTS.	51
CONCRETE CURB TYPE "D"	LN.MTS.	51
STORM TRENCH DRAIN; SEE DETAIL ON C-4.0	LN.MTS.	6

NOTES:
- REFER TO SHEET C-4.0 FOR CIVIL DETAILS.

EDGE OF PVMT GEOMETRIC TABLE					
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E	DESCRIPTION
1	42.75	S84° 58' 15"E	234109.9928	264044.8907	EDGE OF PAVEMENT
2	8.57	S84° 07' 49"E	234106.2456	264087.4720	EDGE OF PAVEMENT
3	6.26	S84° 07' 49"E	234105.3686	264096.0020	EDGE OF PAVEMENT
4	9.07	S84° 07' 49"E	234104.7282	264102.2312	EDGE OF PAVEMENT
5	9.60	S84° 07' 49"E	234103.8002	264111.2579	EDGE OF PAVEMENT
6	3.68	S84° 07' 49"E	234102.8181	264120.8103	EDGE OF PAVEMENT
7	2.96	S5° 01' 45"W	234102.4414	264124.4749	EDGE OF PAVEMENT
8	0.42	S16° 21' 59"E	234099.4880	264124.2150	EDGE OF PAVEMENT
9	37.05	N12° 13' 11"W	234099.0845	264124.3335	EDGE OF PAVEMENT PT
10	37.05	S22° 52' 04"E	234135.2940	264116.4916	CENTER OF CURVE
11	2.90	N24° 12' 59"W	234101.1570	264130.8890	EDGE OF PVMT. COMPOUND
12	2.90	S71° 26' 07"E	234103.8025	264129.6991	CENTER OF CURVE
13	15.69	S5° 01' 45"W	234102.8790	264132.4490	EDGE OF PAVEMENT PC
14	1.75	N39° 29' 09"W	234087.2477	264131.0734	EDGE OF PAVEMENT
15	12.19	S50° 30' 51"W	234088.5978	264129.9610	EDGE OF PAVEMENT PT

EDGE OF PVMT GEOMETRIC TABLE					
POINT NO.	DISTANCE	BEARING	COORDINATES N	COORDINATES E	DESCRIPTION
16	12.19	N5° 01' 45"E	234080.8451	264120.5515	CENTER OF CURVE
17	27.89	N84° 58' 15"W	234092.9902	264121.6202	EDGE OF PAVEMENT
18	3.67	N56° 30' 49"W	234095.4347	264093.8420	EDGE OF PAVEMENT
19	12.00	S33° 29' 11"W	234097.4616	264090.7782	EDGE OF PAVEMENT PT
20	12.00	N84° 58' 15"W	234087.4534	264084.1573	CENTER OF CURVE
21	1.56	S5° 01' 45"W	234088.5054	264072.2035	EDGE OF PAVEMENT PC
22	6.10	N84° 58' 15"W	234086.9478	264072.0664	EDGE OF FOOTING WALL
23	1.56	N5° 01' 45"E	234087.4822	264065.9939	EDGE OF FOOTING WALL
24	12.00	N84° 58' 15"W	234089.0397	264066.1310	EDGE OF PAVEMENT PT
25	12.00	N5° 01' 45"E	234090.0917	264054.1772	CENTER OF CURVE
26	11.00	N84° 58' 15"W	234102.0455	264055.2291	EDGE OF PAVEMENT PC
27	1.58	S38° 03' 52"W	234103.0094	264044.2761	EDGE OF PAVEMENT

GEOMETRIC PLAN
SCALE: 1:150

GEOMETRIC NOTES:

1. FOR HORIZONTAL AND VERTICAL CONTROL POINTS REFER TO TOPOGRAPHIC & SURVEY PLAN PREPARED BY OWNER.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING SITE CONDITIONS & REVIEW PLANS WITH COORDINATES CONTROLS PRIOR TO BEGIN ANY WORK.
3. CONTRACTOR SHALL FIELD VERIFIED THE EXACT LOCATION OF ALL EXISTING INFRASTRUCTURE WITHIN THIS AREA & SHALL REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND THE ACTUAL FIELD CONDITIONS IMMEDIATELY TO THE OWNER.
4. ALL DISTANCES IN CIVIL PLAN ARE EXPRESS IN METERS UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.

LEGEND

	CENTER OR ALIGNMENT LINE
	EXISTING EDGE OF PAVEMENT
	PROPOSED CONCRETE CURB TYPE "D"
	PROPOSED CONCRETE PAVEMENT (FULL DEPTH) OR SLAB; SEE DETAIL ON C-4.0.
	PROPOSED CONCRETE SIDEWALK
	PROPOSED STORM TRENCH DRAIN
°17	GEOMETRIC POINTS, SEE TABLES ON THIS SHEET
F.F.E.	FINISHED FLOOR ELEVATION
TBFV	TO BE FIELD VERIFIED
L	LENGTH
R	RADIUS
PARK.	PARKING
PLT	PLANTING
PVMT.	PAVEMENT
SPA.	SPACES
STA	STATION

Project Name

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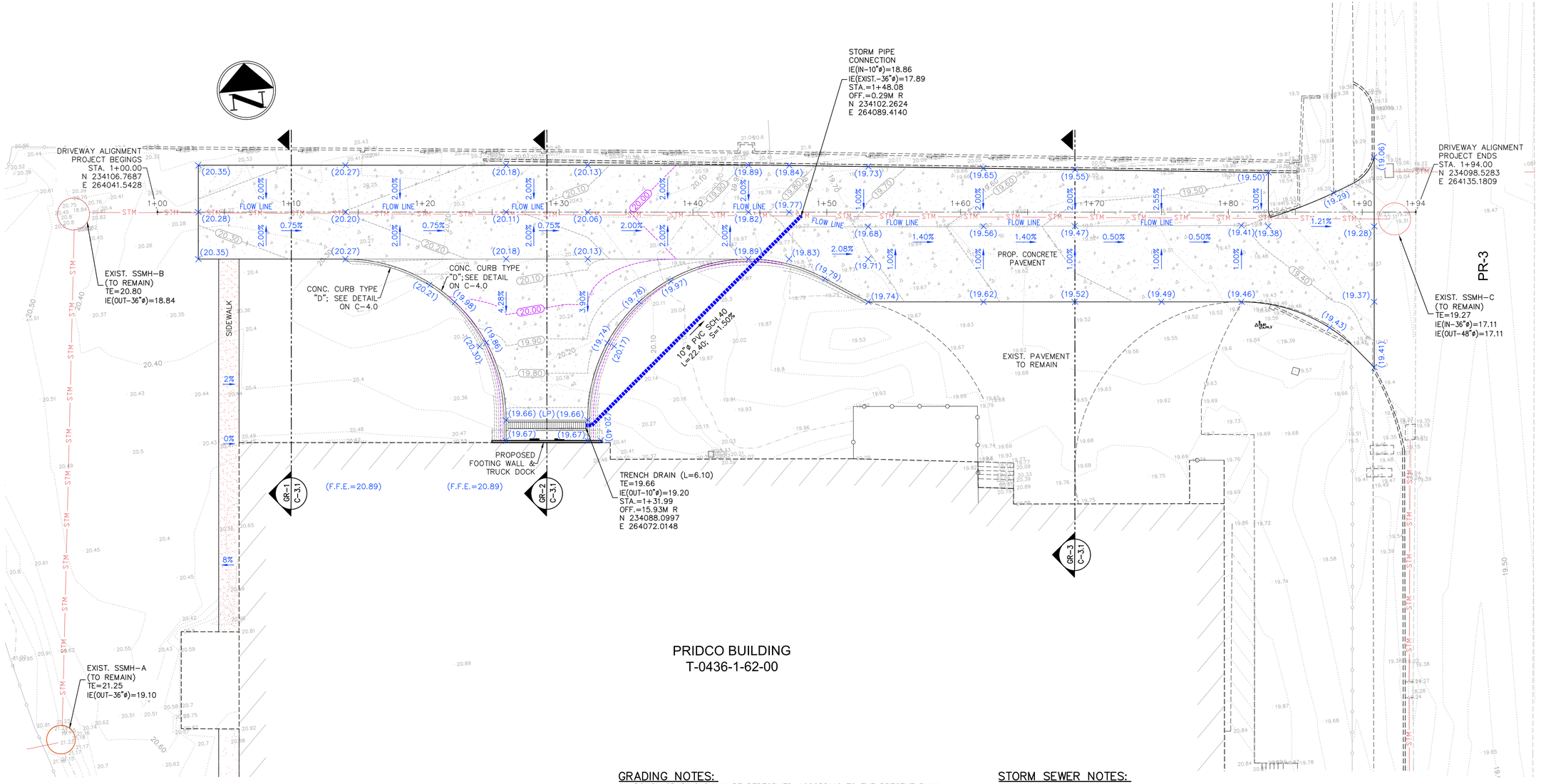
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Lambert Coordinates

X =264076.586 Y = 234087.817
Output NAD83

Drawing Title:
GEOMETRIC PLAN

Drawn by: AMG
Scale: 1:150
Drawing number: C-2.0
Date:
File name:



GRADING & STORM LEGEND

- CENTER OR ALIGNMENT LINE
- PROPOSED CONCRETE CURB TYPE "D"
- PROPOSED EARTH SWALE
- PROPOSED CONCRETE PAVEMENT
- PROPOSED GRASS AREA
- PROPOSED STORM TRENCH DRAIN
- 19.54 — EXIST. GROUND SPOT ELEVATION
- (20.20) — PROPOSED GRADE SPOT ELEVATION
- 1.00% — GRADE SLOPE DIRECTION FOR POSITIVE DRAINAGE
- 2.00 — EXISTING CONTOUR (1.00 MTS. PRECISION)
- EXISTING CONTOUR (0.10 MTS. PRECISION)
- 20.00 — CONC. REPAIR PROJECT PROPOSED CONTOUR (1.00 MTS. PRECISION)
- 20.90 — CONC. REPAIR PROJECT PROPOSED CONTOUR (0.10 MTS. PRECISION)
- F.F.E. — FINISHED FLOOR ELEVATION
- (LP) — LOW POINT
- STM — EXISTING STORM SEWER PIPE TO REMAIN
- PROPOSED STORM DRAIN PIPE
- TE — TOP ELEVATION
- IE — INVERT ELEVATION
- IN — INLET STRUCTURE

PRIDCO BUILDING
T-0436-1-62-00

GRADING NOTES:

1. ROUGH GRADING SHALL BE PERFORMED ACCORDING TO THE PRESENT PLAN REQUIRED LEVELS. FOR SUBGRADES AND GRADES SHALL BE PERFORMED AS FOLLOWS:
   A) BUILDING FLOOR SLAB; TO THE UNDERSIDE OF THE RESPECTIVE FLOOR SLAB, SAME WILL VARY DEPENDING ON THE FLOOR FINISHES.
   B) STREETS PAVEMENTS, WALKS & OTHER SURFACED AREAS; TO THE UNDERSIDE OF THE RESPECTIVE SURFACING OR BASE COURSE.
   C) PLANTING & LAWNS AREAS; TO FOUR (4") BELOW SPECIFIED FINISH GRADES, THEN COMPLETE TO GRADE WITH AN ACCEPTABLE TOPSOIL.
2. PROPOSED EMBANKMENT SLOPES STEEPER THAN 4:1 (H:V) SHALL BE PROTECTED FROM RUNOFF AND EROSION BY AN APPROPRIATED TYPE OF BLANKET AND VEGETATION COVER.
3. CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING PAVEMENT AND UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
4. FOR CIVIL DETAILS REFER TO SHEET C–4.0.
5. NEW FILL MATERIAL SHALL BE AN A–2–4, OR BETTER TYPE OF SOIL (BASED ON AASHTO SOIL CLASSIFICATION SYSTEM).

EARTH WORK NOTES:

1. EARTHWORK VALUES (VOLUME WERE OBTAINED COMPARING PROPOSED FINISHED GRADE ELEVATION VS. EXISTING GROUND.)
   CUT (TO FINISHED GRADE) = 69 CU.MTS.
   CUT (NEW PVMT. SECTION) =338 CU.MTS.
   FILL = 5 CU.MTS.
   NET = 402 CU.MTS. (CUT TO WASTE)

STORM SEWER NOTES:

1. EMBANKMENT SLOPES STEEPER THAN 4:1 (H:V) SHALL BE PROTECTED FROM RUNOFF AND EROSION BY AN APPROPRIATED TYPE OF VEGETATION COVER.
2. CONTRACTOR SHALL REPAIR AND MAINTAIN ACCEPTABLE CONDITIONS ANY EXISTING STORM SEWER UTILITIES THAT WILL REMAIN IN USE AFTER THE COMPLETION OF THE PROJECT.
3. SEE GRADING SECTIONS ON C–3.1.
4. SEE STORM SEWER DETAILS ON SHEETS C–4.0.
5. ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
6. ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
7. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF EXISTING STORM SEWER STRUCTURES BEFORE BEGINNING ANY CONSTRUCTION WORK. ANY DISCREPANCY SHALL BE NOTIFIED TO THE ENGINEER.

CONCRETE PAVEMENT & JOINTS NOTES:

1. CONTRACTOR SHALL COMPLY WITH SITE SPECIFICATIONS, AND DESIGN DATA AND RECOMMENDATION OF THE FCPA "DESIGN AND CONSTRUCTION OF CONCRETE PAVEMENT MANUAL" FOR CONCRETE PAVEMENT JOINT SPACING. THIS IS TO INCLUDE CONTROL/CONSTRUCTION, CONTRACTION AND ISOLATION JOINTS.
2. JOINT SPACING SHOULD NOT EXCEED 15 FT (4.57 MTS.).
3. JOINTS SHOULD BE LAID OUT TO FORM APPROXIMATELY SQUARE PANELS. WHEN THIS IS NOT PRACTICAL, RECTANGULAR PANELS CAN BE USED IF THE LONG DIMENSION IS NO MORE THAN 1½ TIMES THE SHORT
4. ALL TRANSVERSE AND LONGITUDINAL JOINTS SHOULD BE SAWED, GROOVED, OR FORMED TO A DEPTH OF AT LEAST ONE–FOURTH THE SLAB THICKNESS.
5. ISOLATION (EXPANSION) JOINTS SHOULD EXTEND FULL DEPTH AND SHOULD BE ABUTTING OR WITHIN THE PAVEMENT AREA.
6. JOINTS SHOULD RUN CONTINUOUSLY THROUGH THE PAVED AREA AND EXTEND THROUGH THE INTEGRAL CURB. JOINTS CAN BE TERMINATED AND OFFSET AT ISOLATION JOINTS.
7. WHERE THERE ARE MANHOLES, CATCH BASINS, SMALL FOUNDATIONS, AND OTHER BUILT–IN STRUCTURES, JOINTS SHOULD BE LAID OUT SO THAT THEY MEET THE CORNERS OF THE STRUCTURE.
8. CONTROL JOINTS SHOULD BE OFFSET AT LEAST 1½ FT TO AVOID ACUTE ANGLES OR SMALL SECTIONS OF SLABS AT CURBS.
9. CONTROL JOINTS SHOULD BE SAWED AS SOON AS POSSIBLE WITHOUT RAVELING THE NEW CONCRETE.
10. CONSTRUCTION JOINT LOCATIONS SHOULD BE DETERMINED BY THE CONTRACTOR'S EQUIPMENT AND PROCEDURES. CONSTRUCTION JOINTS SHOULD BE PLACED BETWEEN ADJACENT SLABS THAT HAVE DIFFERENT THICKNESS.

GRADING & DRAINAGE PLAN

SCALE: 1:150

Project Name

DRIVEWAY CONSTRUCTION FOR BUILDING T-0436-I-62, HUMACAO MUNICIPALITY, PR.

Owner:

COMPANIA DE FOMENTO INDUSTRIAL DE PUERTO RICO.

PRIDCO Ave. Roosevelt
No. 355 Hato Rey, Puerto Rico 00918

Consultant:

LOGISTIC ENGINEERING CONSULTANTS, CSP
BOX 9023460,
San Juan, PR 00902-0460
logisticengineringcsp@gmail.com

Consultant:

Surveyor:

-

Wilfredo Manuel Rodriguez Ubiñas
Ingeniero
Licenciado
Lic. 13719 PE
Puerto Rico

Fecha de Expiracion: 2027-08-14

Engineer Signature Seal

NO.	REVISION	BY	DATE
0	00	–	00

CONSTRUCTION DRAWING REVISIONS

CERTIFICACION:

Yo,Wilfredo Rodriguez licencia numero 13719 , CERTIFICO que soy el profesional que diseño estos planos y las especificaciones complementarias. También Certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables de los reglamentos y Códigos de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido con conocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe y otras autoridades competentes a la terminación de la participación en los procedimientos de certificación profesional en la OGPe

IMPORTANT NOTES:

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All work to conform to all applicable national, state and local codes.

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Lambert Coordinates

X =264076.586 Y = 234087.817
Output NAD83

Drawing Title:

GRADING & DRAINAGE PLAN

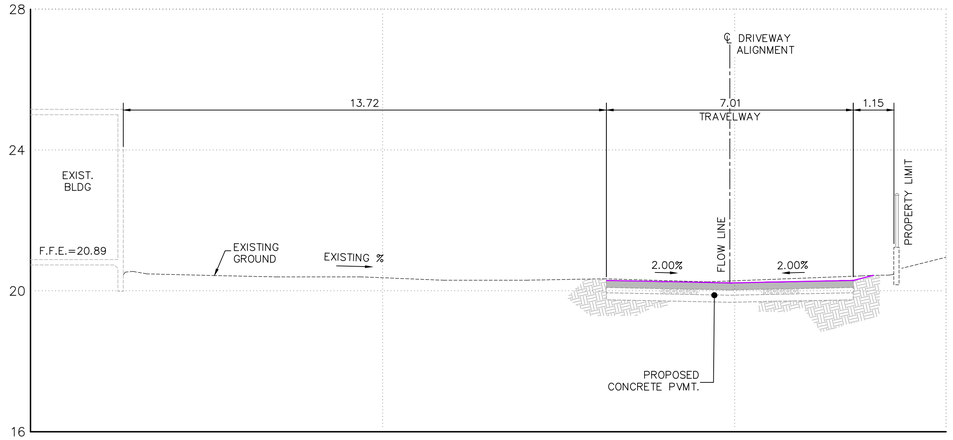
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Scale: 1:150

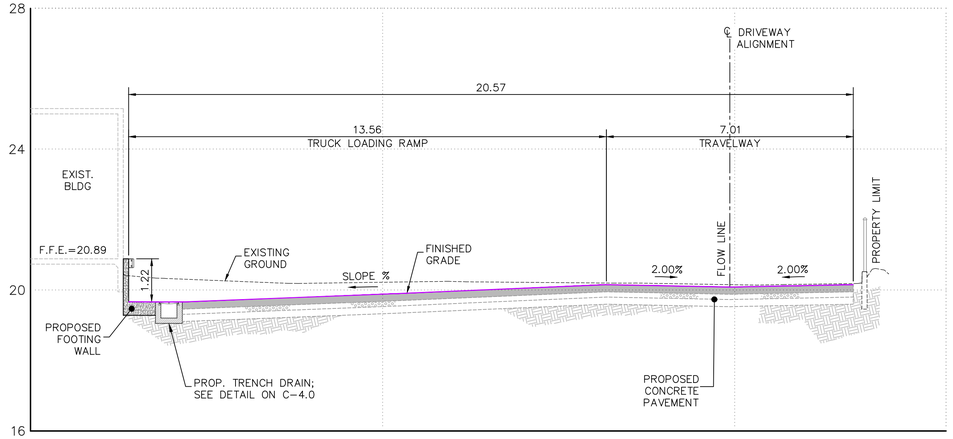
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Date:

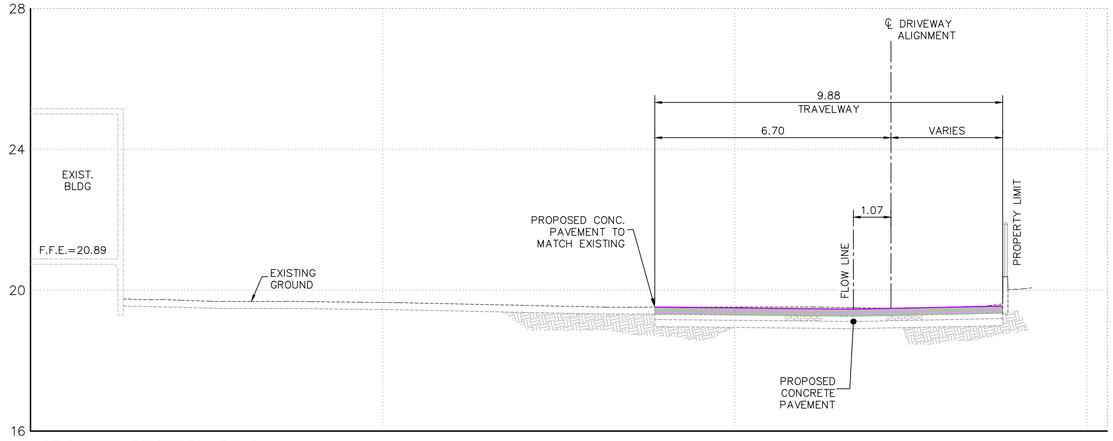
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GRADING SECTION GR-1
SCALE 1: 80



GRADING SECTION GR-2
SCALE 1: 80



GRADING SECTION GR-3
SCALE 1: 80

GRADING SECTIONS LEGEND

EXISTING GROUND

PROPOSED FINISHED GRADE

GRADING SECTIONS
SCALE: 1: 80

Project Name

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Drawing Title:

GRADING SECTIONS

Drawn by: AMG

Scale: 1:80

Drawing number: C-3.1

Date:

File name:

Ⓐ 8" MIN. THICK REINFORCED CONCRETE WITH A MIN. COMPRESSIVE STRENGTH OF AT LEAST 4000 P.S.I., AT 28 DAYS. 12'X12' MAX. CONTROL JOINT SPACING. MIN. SAWCUT DEPTH OF 1-1/2 INCHES.

Ⓑ 6" OF EITHER CLEAN WELL GRADED CONCRETE SAND FILL OR CRUSHED AGGREGRATE, DENSIFIED TO AT LEAST 98% OF THE MODIFIED PROCTOR TEST MAX. DRY DENSITY (ASTM D 1557).

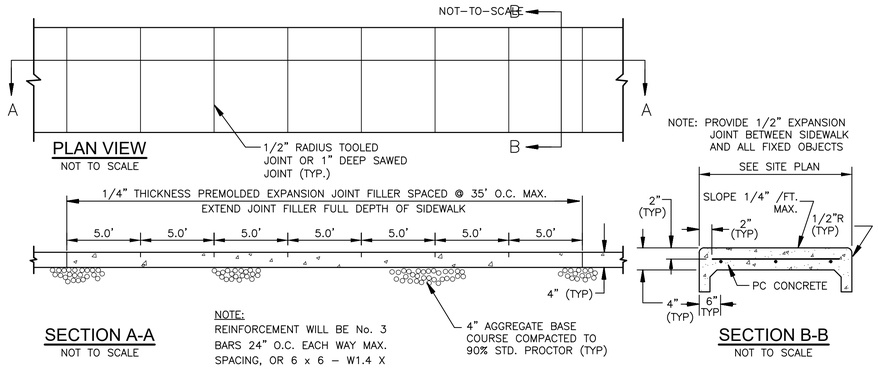
Ⓒ 8" SUBGRADE SOILS MUST CONSIST OF "A-2-4" (AASHTO) CBR=15 MIN. AND MUST BE DENSIFIED TO AT LEAST 98% OF THE MODIFIED PROCTOR TEST MAX. DRY DENSITY (ASTM D 1557).



NOTE: CONTRACTOR SHALL COMPLY WITH SITE SPECIFICATIONS, AND DESIGN DATA AND RECOMMENDATION OF THE FCPA "DESIGN AND CONSTRUCTION OF CONCRETE PAVEMENT MANUAL" FOR CONCRETE PAVEMENT JOINT SPACING. THIS IS TO INCLUDE CONTROL/CONSTRUCTION, CONTRACTION AND ISOLATION JOINTS.

NOTES:
1. WHERE CONCRETE PAVEMENT IS CONSTRUCTED ALL CURBING ADJACENT TO IT SHALL BE INTEGRAL CURB.
2. CONCRETE PAVEMENT SHOULD BE CONSTRUCTED ONLY OVER STABLE AND SMOOTH COMPACTED SUBGRADES. ANY SURFACE DISTURBANCES OR WHEEL RUTTING SHOULD BE PREPARED PRIOR TO PLACEMENT OF CONCRETE.
3. THE SUBGRADE SHOULD BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO THE PLACEMENT OF CONCRETE TO MINIMIZE ABSORPTION OF MOISTURE FROM THE CONCRETE DURING CURING.
4. CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT, WITH THE EXCEPTION OF CURBING OR THICKENED EDGES.
5. RIGID PAVEMENT REINFORCEMENT SHALL BE #4 @ 12" O.C. EACH WAY AT MID-DEPTH, GRADE 60, ASTM A-615. ALL PAVEMENT EDGES AND OPENINGS AROUND STRUCTURES SHALL BE REINFORCED CONTINUOUS WITH NO. 5 BARS AND CLEAR COVER OF 3 INCHES. ALL REINFORCEMENT SHALL BE DISCONTINUED AT CONTROL JOINT LOCATIONS.

CONCRETE PAVEMENT DETAIL
(FOR LOCATION REFER TO PLANS)



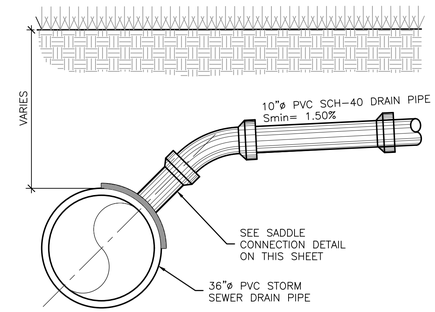
PLAN VIEW
NOT TO SCALE

SECTION A-A
NOT TO SCALE

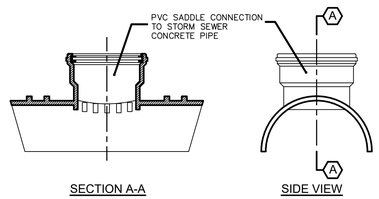
NOTE:
REINFORCEMENT WILL BE No. 3 BARS 24" O.C. EACH WAY MAX. SPACING, OR 6 x 6 – W1.4 X W1.4 WWF

SECTION B-B
NOT TO SCALE

CONCRETE SIDEWALK TYPICAL DETAIL
NOT TO SCALE



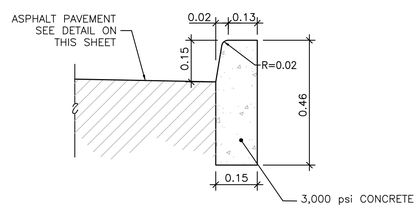
STORM PIPE CONNECTION TO MAIN STORM SEWER LINE DETAIL
NOT TO SCALE



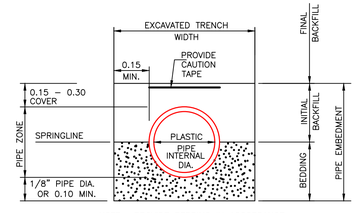
STORM SEWER SADDLE FITTING DETAIL
NOT TO SCALE

NOTES:
1. CONCRETE F'c= 4,000 psi.
2. REINFORCED STEEL F'y = 60,000 Ksi

FOOTING WALL DETAIL
SCALE: 1:10

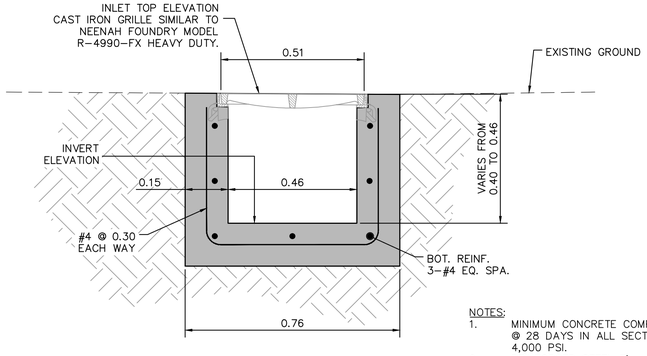


CONCRETE CURB DETAIL "TYPE D"
NOT TO SCALE



NOTE: PROVIDE BEDDING IN ACCORDANCE WITH THE SPECIFICATIONS.

TRENCH FOR PLASTIC PIPE
NOT TO SCALE



TRENCH DRAIN DETAIL
SCALE: 1:10

NOTES:
1. MINIMUM CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS IN ALL SECTIONS SHALL BE 4,000 PSI.
2. REINFORCED STEEL F'y = 60,000 Ksi
3. REINFORCED STEEL A's (min.) = 0.20 in²
4. FOR TRENCH DRAIN LENGTH DIMENSION REFER TO PLANS

Project Name

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Engineer Signature Seal

NO.	REVISION	BY	DATE

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Output NAD83

Drawing Title:
CIVIL DETAILS

Drawn by: AMG
Scale: AS-SHOWN
Drawing number: C-4.0
Date:
File name: