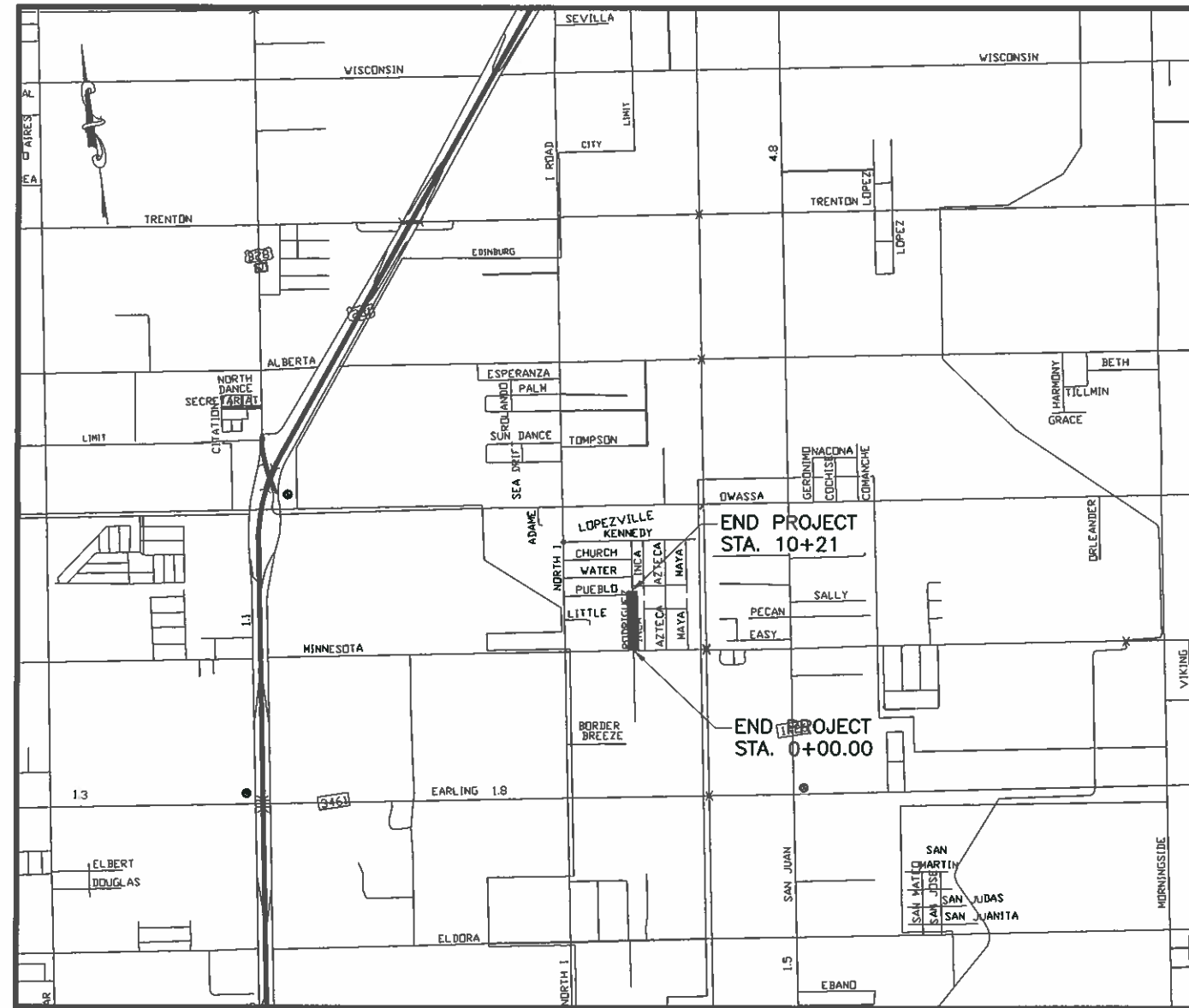
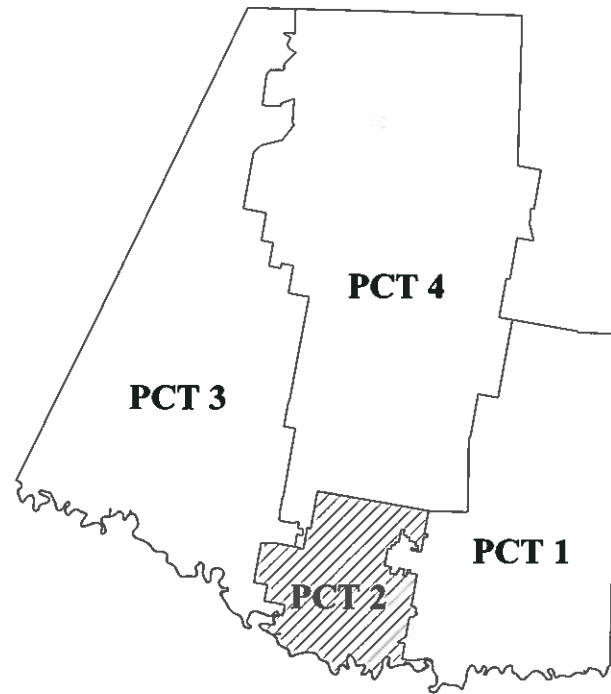


PRECINCT 2 DRAINAGE PROJECT



LOCATION MAP - SCALE: 1" = 3000'

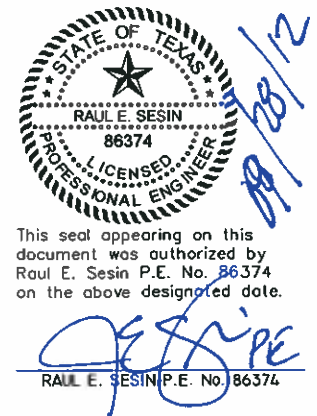
RODRIGUEZ ROAD DRAINAGE AND ROAD IMPROVEMENTS

<i>RAMON GARCIA</i>	<i>COUNTY JUDGE</i>
<i>COMMISSIONER JOEL QUINTANILLA</i>	<i>PRECINCT No. 1</i>
<i>COMMISSIONER HECTOR "TITO" PALACIOS</i>	<i>PRECINCT No. 2</i>
<i>COMMISSIONER JOE M. FLORES</i>	<i>PRECINCT No. 3</i>
<i>COMMISSIONER JOSEPH PALACIOS</i>	<i>PRECINCT No. 4</i>



HIDALGO COUNTY PLANNING DEPARTMENT

1304 S 25 TH. STREET
EDINBURG TX. 78539
TEL: (956) 318-2840 FAX: (956) 318-2844
www.co.hidalgo.tx.us
RAUL E. SESIN, P.E., C.F.M.
PLANNING ADMINISTRATOR



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REVISION DATE:	DESCRIPTION:
9-28-12	ADJUSTED PGL FROM STA 0+00-STA 5+00 AND LAYDOWN CURB

GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE HIDALGO COUNTY PRECINCT No. 2 AND HIDALGO COUNTY IRRIGATION DISTRICT No. 2.
2. THE CONTRACTOR SHALL REMOVE ALL FENCES LOCATED WITHIN THE EASEMENTS, INTERFERING WITH CONSTRUCTION OPERATION AND PROVIDE TEMPORARY FENCING DURING CONSTRUCTION. REMOVED FENCES SHALL BE REPLACED WITH A NEW FENCE OR UNDAMAGED ORIGINAL FENCING. REMOVAL AND REPLACEMENT OF EXISTING AND TEMPORARY FENCES SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.
3. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT MR. RICHARD GARCIA WITH NORTH ALAMO WATER SUPPLY CORP. (N.A.W.S.C.) @ (956) 383-161848 AND MR. ALFREDO ORTIZ WITH CITY OF PHARR UTILITIES @ (956) 787-7951 HOURS PRIOR TO COMMENCEMENT OF WORK @ (956) 383-1618 TO COORDINATE AND MEET ANY ADDITIONAL REQUIREMENTS AND/OR SPECIFICATIONS.
4. CONTRACTOR SHALL BE RESPONSIBLE TO CALL DIG TESS 48 HOURS PRIOR TO COMMENCEMENT OF WORK FOR UTILITY SPOTTING @ (1-800-DIG-TESS).
5. CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT MR. BERT WESSLING WITH HIDALGO COUNTY IRRIGATION DISTRICT No. 2 (H.C.I.D. No. 2) 48 HOURS PRIOR TO COMMENCEMENT OF WORK @ 956.787.1422 TO COORDINATE AND MEET ANY ADDITIONAL REQUIREMENTS AND/OR SPECIFICATIONS.
6. LOCATIONS OF UNDERGROUND FACILITIES ARE FROM BEST INFORMATION AVAILABLE. NEITHER THE OWNER OR ENGINEER, WARRANT THE ACCURACY OF THE INFORMATION PROVIDED. ANY DEVIATIONS SHALL BE CALLED TO THE ENGINEER'S ATTENTION IMMEDIATELY.
7. AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL APPROPRIATE TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TMUTCD LATEST EDITION, AND AS APPROVED BY THE ENGINEER.
8. ALL MATERIALS AND DEBRIS, EXCEPT CALICHE BASE, RESULTING FROM DEMOLITION IN PREPARATION FOR THE PROPOSED IMPROVEMENTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THESE MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
9. CONTRACTOR SHALL AT ALL TIME PROVIDE ACCESS TO EXISTING RESIDENCES.
10. ANY DAMAGES TO FENCES, WALKS, OR PRIVATE PROPERTY SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
11. NO OPEN EXCAVATION SHALL BE LEFT OPEN OVERNIGHT. ALL EXCAVATIONS WHICH CANNOT BE BACKFILLED OVERNIGHT SHALL BE COVERED. AS A MINIMUM, WITH STEEL PLATING WHEN IN PAVED AND UNPAVED AREAS SUBJECT TO VEHICULAR LOADING; ¾ PLYWOOD, WOOD PLANKING WITH O.S.H.A. ORANGE PLASTIC EXPANDED MESH BARRIER AROUND PERIMETER IN UNPAVED AREAS NOT SUBJECT TO VEHICULAR LOADING, OR AS APPROVED BY THE ENGINEER.
12. THE PREPARATION OF THESE PLANS REFLECTS INFORMATION, PROVIDED BY OTHERS, ON THE APPROXIMATE LOCATION AND EXISTENCE OF EXISTING UTILITY AND ADJACENT PHYSICAL FEATURES. HOWEVER, THEY DO NOT IMPLY OR AFFIRM THAT ALL UTILITIES OR PHYSICAL FEATURES ARE SHOWN. GENERALLY, UTILITY SERVICE CONNECTIONS ARE NOT INDICATED ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATIONS OF THE OWNER IMMEDIATELY UPON ENCOUNTERING UNFORESEEN CONFLICTS.
13. THE APPROXIMATE LOCATIONS OF KNOWN EXISTING UTILITIES ARE SHOWN, CONTRACTOR SHALL DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD PRIOR TO COMMENCING WORK. CONTRACTOR TO BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT OCCUR BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
14. PUBLIC AND PRIVATE UTILITY LINES AND CUSTOMER SERVICE LINES MAY EXIST THAT ARE NOT SHOWN ON THE CONSTRUCTION DRAWINGS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE, MAINTAIN AND PROTECT THE INTEGRITY OF THESE LINES. HAND EXCAVATION MAY BE REQUIRED.
15. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY TO RELOCATE OR DIVERT ANY UTILITY IN CONFLICT WITH PROPOSED CONSTRUCTION SO AS NOT TO DISRUPT SERVICE OF IT. CONTRACTOR SHALL RESTORE, RELOCATED, OR DIVERTED UTILITY TO ITS ORIGINAL CONDITION AND LOCATION WHEN APPLICABLE UPON COMPLETION OF CONSTRUCTION.

16. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES FOR VERIFICATION OF LOCATION OF EXISTING FACILITIES PRIOR TO BEGINNING ANY EXCAVATION.

18. CONTRACTOR TO MAINTAIN ALL EQUIPMENT AND TRANSPORTATION OF SAID EQUIPMENT WITHIN THE EXISTING RIGHT-OF-WAYS OF THE CITY, COUNTY, OR STATE.

19. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY SURFACE IRREGULARITIES, AS DIRECTED BY THE ENGINEER, CAUSED BY THE CONTRACTOR'S WORKING OPERATIONS.

20. DURING EXCAVATION OPERATIONS FOR DRAINAGE AND/OR UTILITIES, THE CONTRACTOR SHALL NOT PILE ANY EXCAVATED MATERIAL OR EXCAVATE WITHIN THE DRIP LINE OF TREES THAT ARE TO BE PRESERVED.

21. WHERE NEW WATER LINES AND SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC 317 (DESIGN OF SEWAGE SYSTEMS) OR 30 TAC 290 (WATER HYGIENE).

22. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER AND SEWER CONNECTIONS TO ALL HOMES AND BUSINESS IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF INTERRUPTIONS IN SERVICE FOR CONNECTIONS TO BE REINSTALLED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT.

23. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES.

24. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES DURING THE INSTALLATION OF THE STRUCTURES, DRAINAGE, IRRIGATION AND ROAD IMPROVEMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING OF THE TRENCH IF REQUIRED DUE TO FIELD CONDITIONS AND/OR INCLEMENT WEATHER. DEWATERING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT COST AND REFLECTED IN THE UNIT BID PRICES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL.

25. THE CONTRACTOR SHALL CLEANUP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION AS GOOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR TO INSTALLATION OF ALL ITEMS TO BE CONSTRUCTED.

26. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM UNLESS STATED OTHERWISE. SURPLUS MATERIALS FROM EXCAVATION INCLUDING DIRT, TRASH, ETC., SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO HIDALGO COUNTY PRECINCT No 2 THE CONTRACTOR SHALL PROVIDE A LETTER STATING SO. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE HIDALGO COUNTY PRECINCT No 2. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND CONTRACTOR SHALL REMOVE THE MATERIAL AT OWN COST.

27. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION AND SUBMITTAL OF THE TRENCH EXCAVATION PROTECTION PLAN. CONTRACTOR SHALL SUBMIT CONSTRUCTION DETAILS AND DESIGN CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS BEFORE CONSTRUCTING THE SHORING. THE ENGINEER RESERVES THE RIGHT TO REJECT DESIGNS NOT MEETING THE REQUIREMENTS OF SECTION 19000.

28. NEW CALICHE MATERIAL GRADATION SHALL BE ARGILLACEOUS LIMESTONE, CALCAREOUS OR CALCAREOUS CLAY PARTICLES, WITH OR WITHOUT STONE CONGLOMERATE GRAVEL, SAND OR GRANULAR MATERIAL:

TYPE D GRADE 6

SIEVE No.	PERCENT RETAINED
2	0
½	20-60
4	40-75
40	75-85

29. EXISTING CALICHE TO BE EXCAVATED AND STOCKPILED AND MAY BE USED IN THE BOTTOM HALF OF THE ROAD BASE BE CONSTRUCTED FROM A COMBINATION OF EXISTING AND NEW TO ATTAIN THE REQUIRED 10 IN. DEPTH. A MINIMUM OF 4" CALICHE SHALL BE USED AT THE TOP OF THE BASE.

**RODRIGUEZ ST.
TYPICAL GENERAL
NOTES**



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RAUL E. SESIN - P.E. No. 86374

SCALE: NTS

DRAWN BY: CYNTHIA PEREZ

CHECKED BY: RAUL E. SESIN

TYPY BY: EDGAR ISIDRO

SHEET: S-1

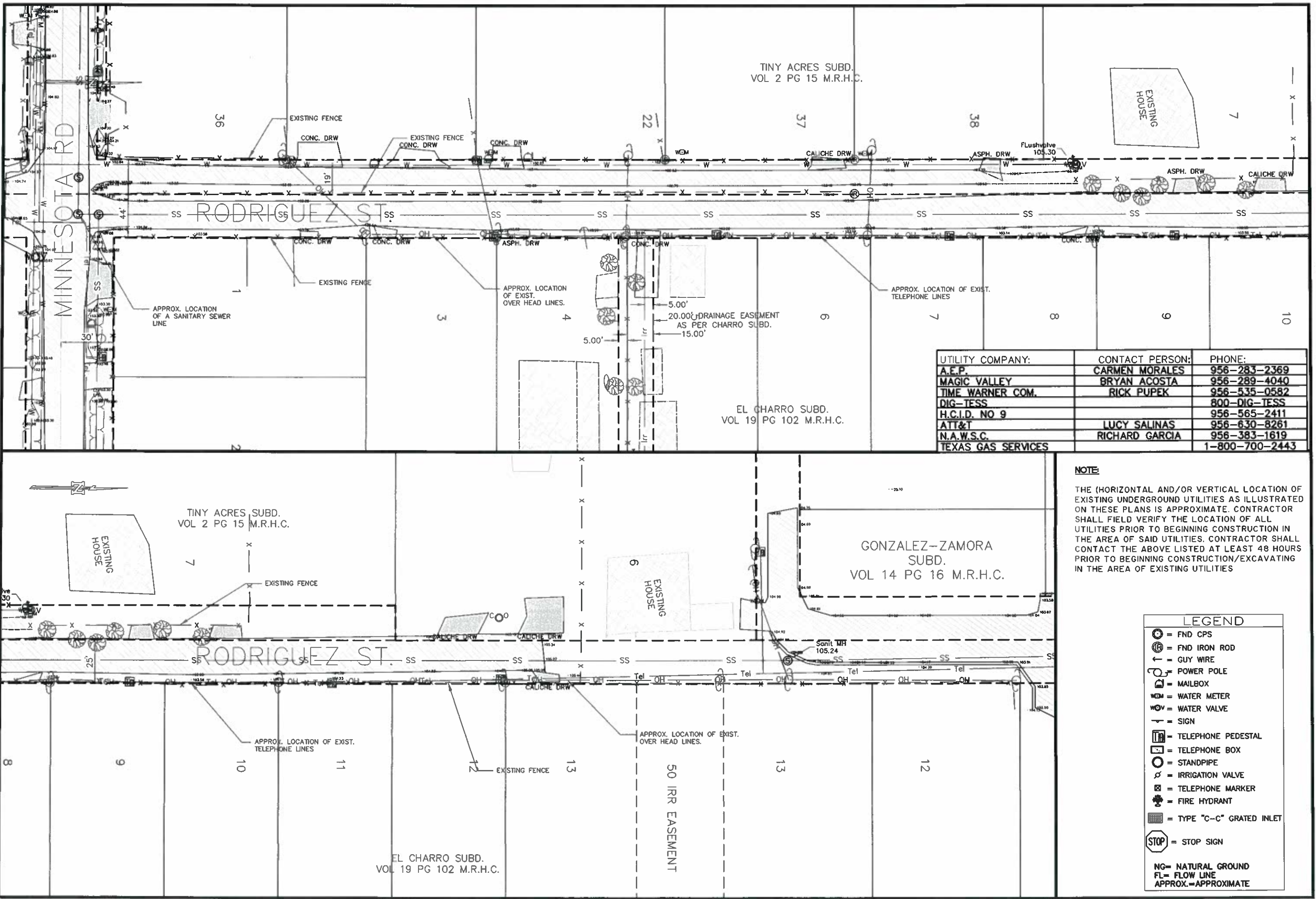
HIDALGO COUNTY
PLANNING DEPARTMENT

1304 S. 25 TH. STREET
EDINBURG TX. 78539
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www.co.hidalgo.tx.us

RAUL E. SESIN, P.E., C.F.M.
PLANNING ADMINISTRATOR

COMMISSIONER
HECTOR "TITO" PALACIOS
HIDALGO COUNTY PCT 2
DRAINAGE IMPROVEMENTS
PROJECT

Drawing: E:\P02\Rodriguez St\General notes and typical details.dwg Plotted by: cynthia.perez



UTILITY COMPANY:	CONTACT PERSON:	PHONE:
A.E.P.	CARMEN MORALES	956-283-2369
MAGIC VALLEY	BRYAN ACOSTA	956-289-4040
TIME WARNER COM.	RICK PUPEK	956-535-0582
DIG-TESS		800-DIG-TESS
H.C.I.D. NO 9		956-565-2411
ATT&T	LUCY SALINAS	956-630-8261
N.A.W.S.C.	RICHARD GARCIA	956-383-1619
TEXAS GAS SERVICES		1-800-700-2443

NOTE:
 THE (HORIZONTAL AND/OR VERTICAL LOCATION OF EXISTING UNDERGROUND UTILITIES AS ILLUSTRATED ON THESE PLANS IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION IN THE AREA OF SAID UTILITIES. CONTRACTOR SHALL CONTACT THE ABOVE LISTED AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION/EXCAVATING IN THE AREA OF EXISTING UTILITIES

- LEGEND**
- ⊙ = FND CPS
 - ⊕ = FND IRON ROD
 - ↑ = GUY WIRE
 - ⊙ = POWER POLE
 - ☐ = MAILBOX
 - ⊙ = WATER METER
 - ⊙ = WATER VALVE
 - ↑ = SIGN
 - ☐ = TELEPHONE PEDESTAL
 - ☐ = TELEPHONE BOX
 - ⊙ = STANDPIPE
 - ⊙ = IRRIGATION VALVE
 - ☐ = TELEPHONE MARKER
 - ⊙ = FIRE HYDRANT
 - ☐ = TYPE "C-C" GRATED INLET
 - ⊙ = STOP SIGN
 - NG = NATURAL GROUND
 - FL = FLOW LINE
 - APPROX. = APPROXIMATE

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 DRAINAGE IMPROVEMENTS
 PROJECT

RODRIGUEZ ST. IMP
TOPOGRAPHY

STATE OF TEXAS
 RAUL E. SESIN
 86374
 LICENSED PROFESSIONAL ENGINEER

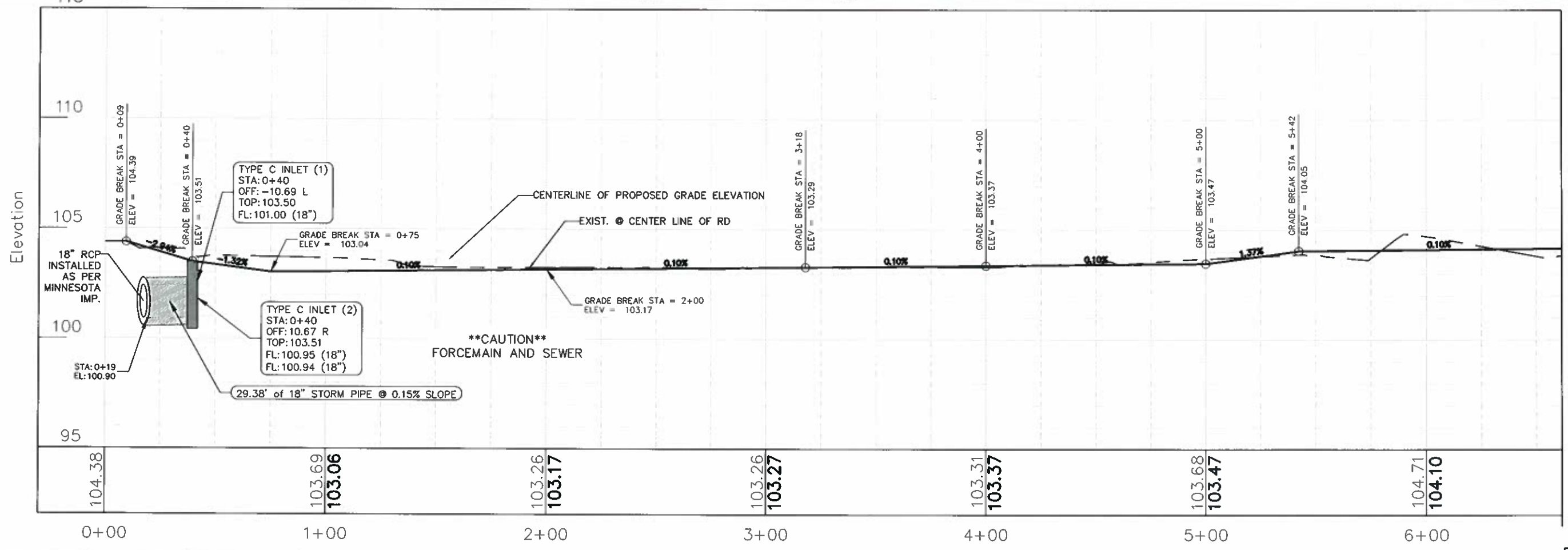
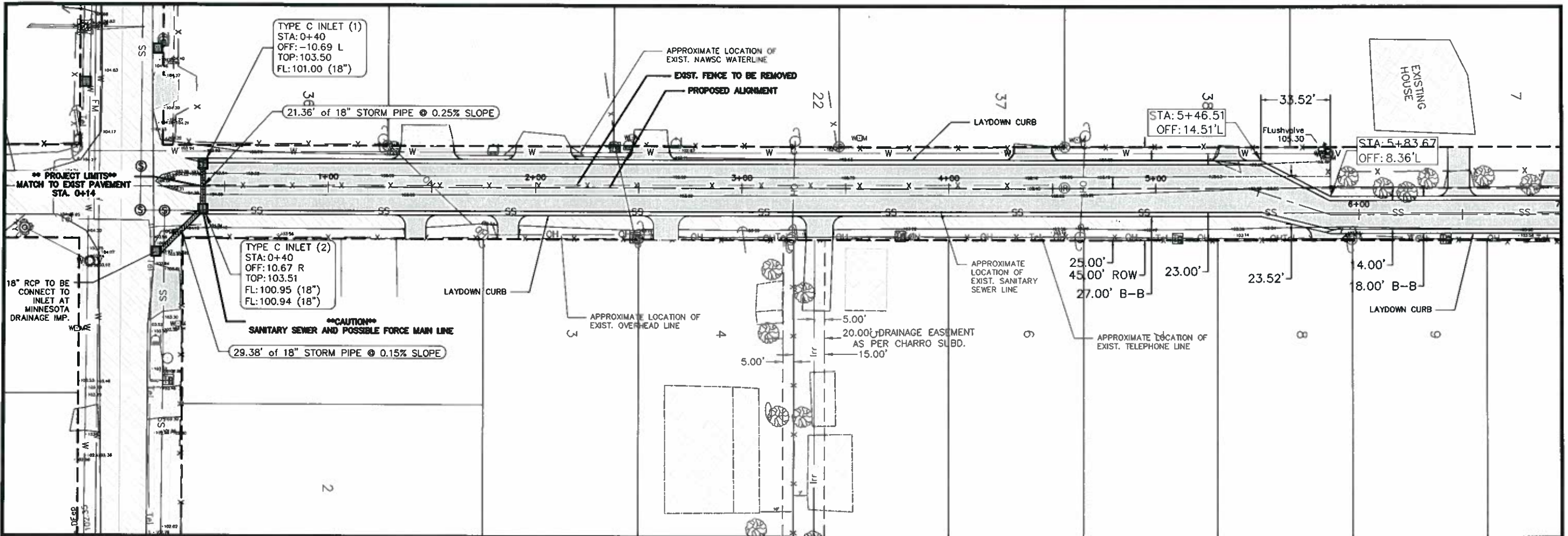
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RAUL E. SESIN (P.E. No. 86374)

SCALE: 1"=50'

DRAWN BY: CYNTHIA PEREZ
 CHECKED BY: RAUL E. SESIN
 COPY BY: EDGAR ISIDRO
 SHEET: S-2

Drawing: I:\PCT 2\Rodriguez St\Rodriguez topo n storm 7_30_12.dwg Plotted by: cynthia.perez



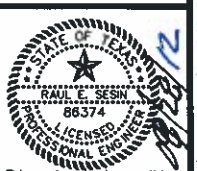
Revised: 9/28/12

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HECTOR "TITO" PALACIOS
HIDALGO COUNTY PCT 2
DRAINAGE IMPROVEMENTS PROJECT

RODRIGUEZ ST.
STORM SEWER
PLAN & PROFILES



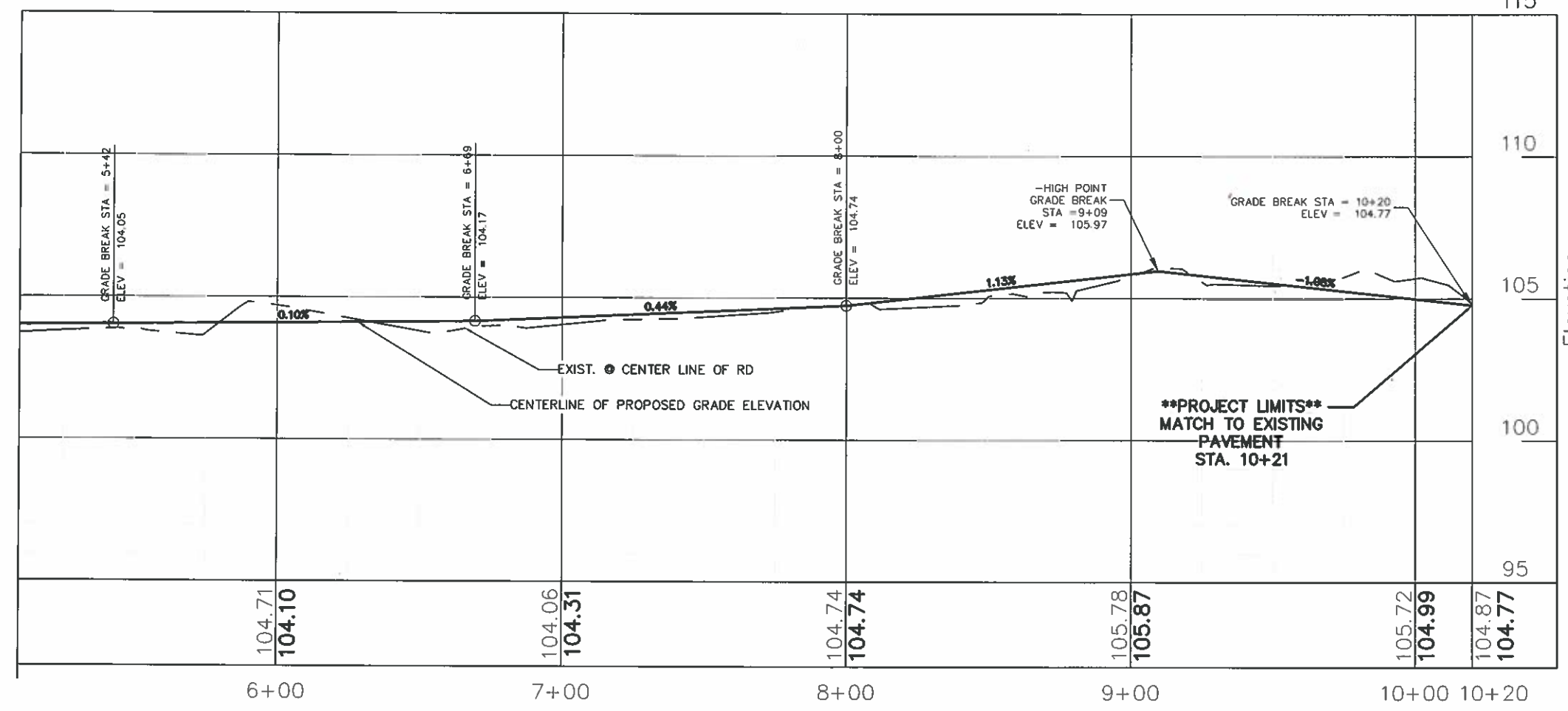
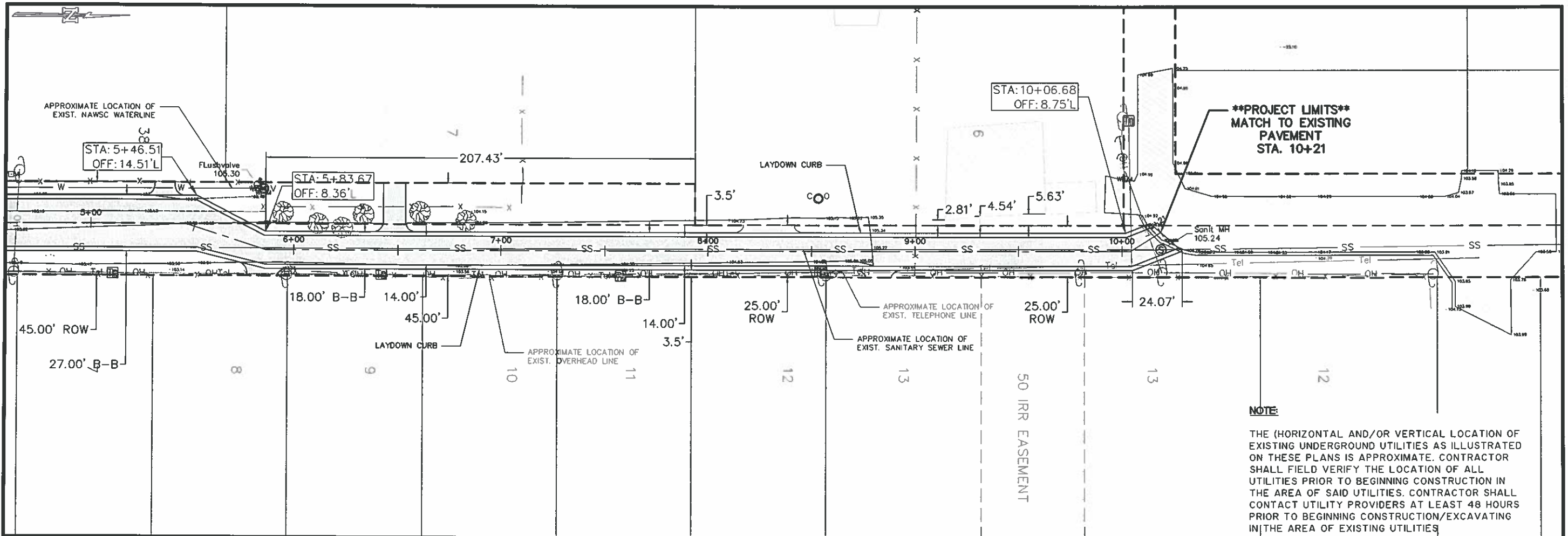
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RAUL E. SESIN, P.E., No. 86374

SCALE: (V) 1"=5' (H) 1"=50'

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CHECKED BY: RAUL E. SESIN
TYPED BY: EDGAR ISIDRO
SHEET: S-3

Drawing: I:\PCT 2\Rodriguez St & Minn. East of I Rd\Rodriguez revised 9.25.12.dwg Plotted by: cynthia.perez
11/20/12 11:50:26 AM



HIDALGO COUNTY
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DRAINAGE IMPROVEMENTS PROJECT

**RODRIGUEZ ST.
STORM SEWER
PLAN & PROFILES**

STATE OF TEXAS
RAUL E. SESIN
66374
LICENSED PROFESSIONAL ENGINEER

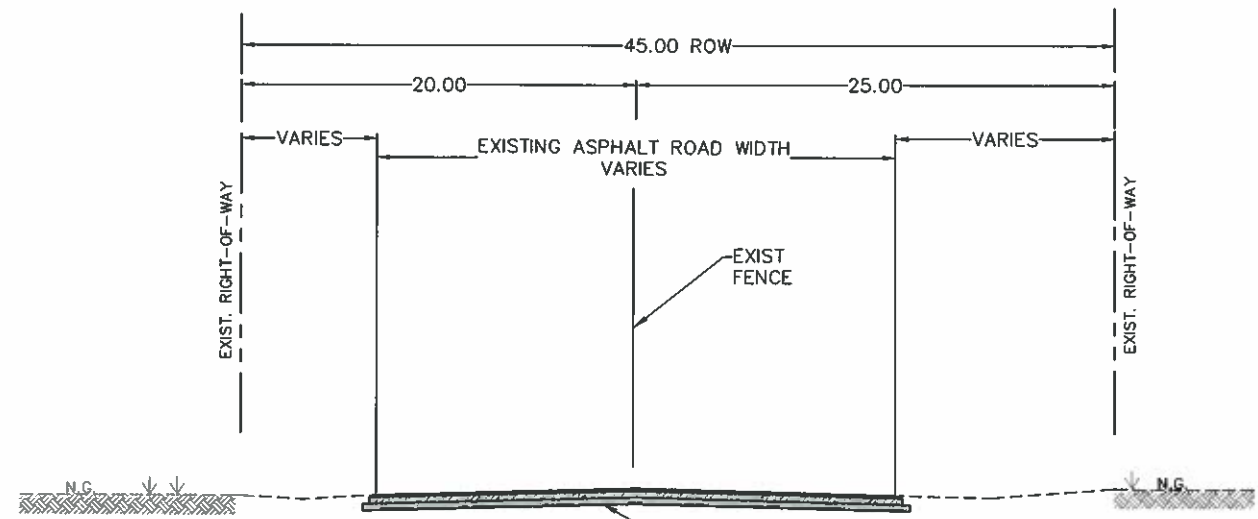
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RAUL E. SESIN, P.E., No. 66374

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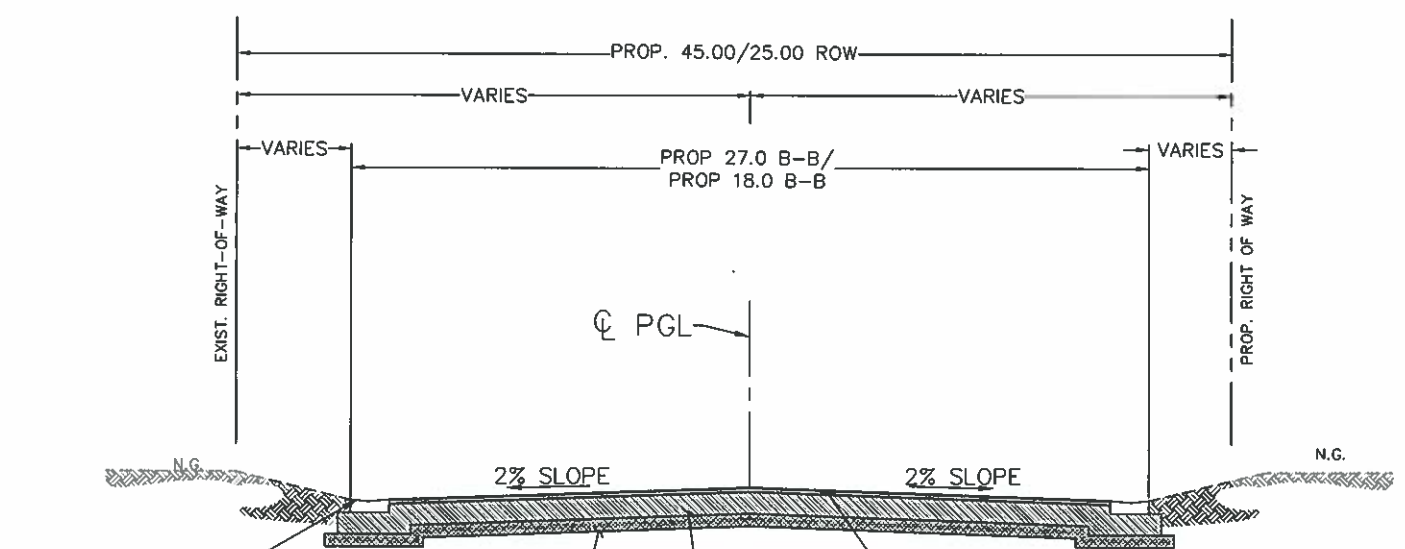
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CHECKED BY: RAUL E. SESIN
TYPED BY: EDGAR ISIDRO
SHEET: S-4

Plotted by: cynthia.perez
Drawing: I:\PCT 2\Rodriguez St\Rodriguez topo n storm 7.30.12.dwg
Date: 08/01/2012 Time: 01:56:45



EXISTING TYPICAL SECTION
 VARIES FROM 1 7/8" TO 2 1/4" H.M.A.C. AND 4" TO 5" CALICHE BASE.

EXISTING RODRIGUEZ RD
 STREET CROSS SECTION



24" LAYDOWN CURB
 SEE DETAIL

6" COMPACTED SUB-GRADE TO 95%
 STANDARD PROCTOR DENSITY

10" COMPACTED CALICHE BASE @
 98 % STANDARD PROCTOR DENSITY.

2" H.M.A.C., TYPE "D"
 AND PRIME COAT *

PROPOSED RODRIGUEZ RD
 STREET CROSS SECTION

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COMMISSIONER
 HECTOR "TITO" PALACIOS
 HIDALGO COUNTY PCT 2
 DRAINAGE IMPROVEMENTS
 PROJECT

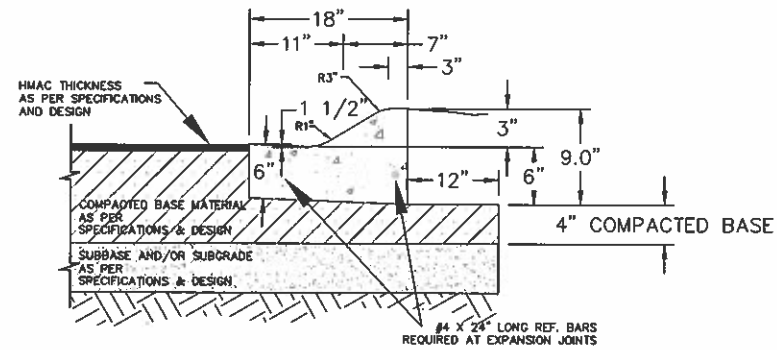
Rodriguez Road Imp.
 Exist. & Prop. Road
 Cross Sections



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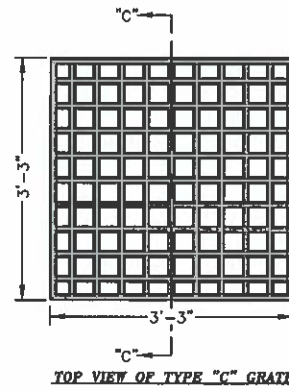
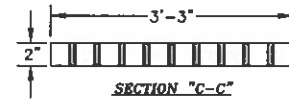
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 DRAWN BY: CYNTHIA PEREZ
 CHECKED BY: RAUL E. SESIN
 COPY BY: EDGAR ISIDRO
 SHEET:

Drawing: I:\PCT 2\Rodriguez Rd\Rodriguez Street Cross Sections.dwg Plotted by: Cynthia Perez
 Date: 11/13/12



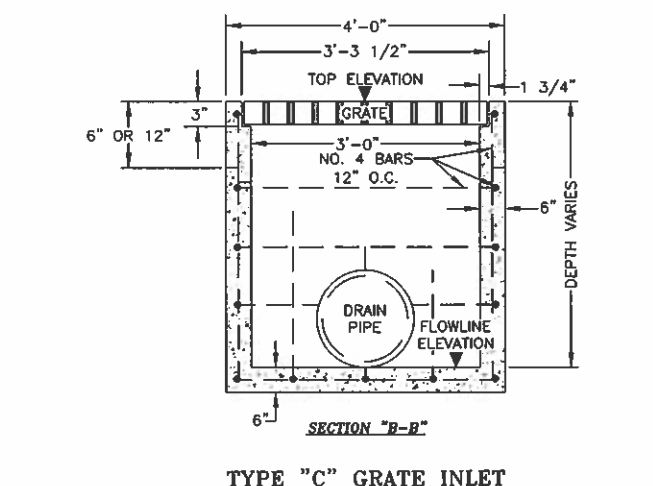
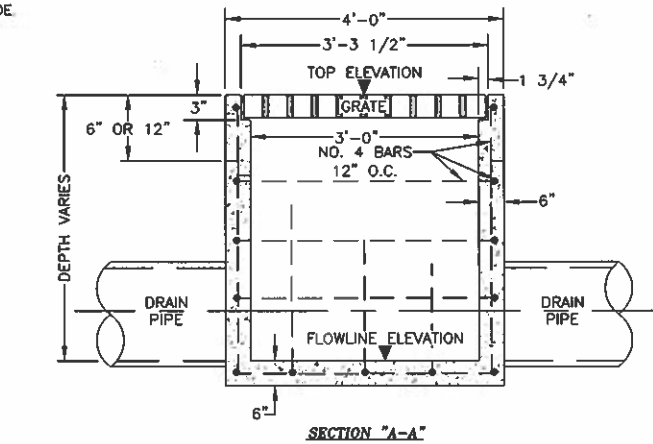
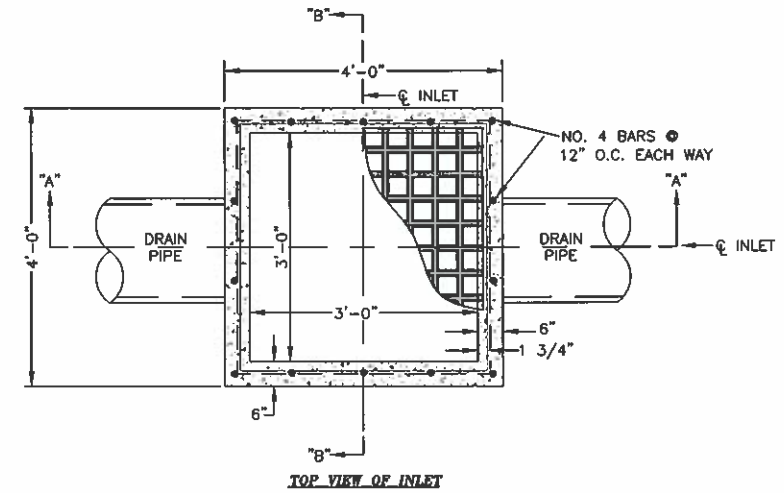
1. ALL HONEYCOMBING SHALL BE GROUTED TO PROVIDE A UNIFORM SURFACE.
2. WHEN HONEYCOMBING IS EXCESSIVE AS DETERMINED BY THE COUNTY OF HIDALGO DESIGNATED REPRESENTATIVE, CURB AND GUTTER SHALL BE REPLACED.
3. BACKFILL BEHIND CURBS SHALL BE ACCOMPLISHED WITHIN 24 HOURS AFTER BACK FORM IS REMOVED OR 48 HOURS AFTER SLIP FORMING.
4. CURB AND GUTTER CONCRETE SHALL BE CLASS "A" (3000 PSI).
5. REINFORCING STEEL AS SHOWN.
6. MAX. LENGTH OF CURB AND GUTTER SECTION IS 80' BETWEEN 3/4" EXPANSION JOINT.

TYPICAL COUNTY LAYDOWN CURB & GUTTER SECTION

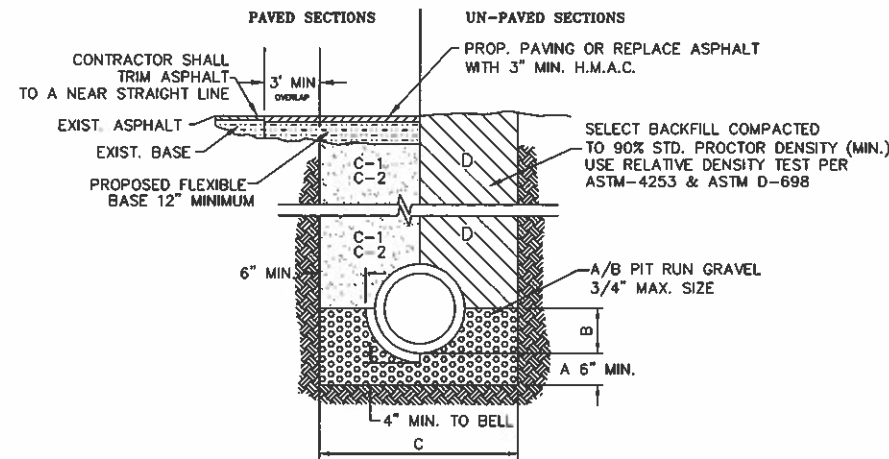


REINFORCING STEEL DETAILS

- NOTE:
1. ALL STEEL TO BE No. 4 BARS ON 12" SPACING IN BOTH DIRECTIONS EXCEPT IN TOP SLAB OR MANHOLE.
 2. ALL GRATE INLET COVERS SHALL BE PEDESTRIAN SAFE COVERS. OPENINGS SHALL BE NO GREATER THAN 3/8" WIDE.
 3. INLET SHALL BE PLACED ON 6-INCH SAND BEDDING. SUBGRADE SHALL BE COMPACTED TO 95% DENSITY



TYPE "C" GRATE INLET



- A. GRAVEL BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW OF PIPE (MIN. THICKNESS = 6") - PIT RUN GRAVEL 3/4" MAX. SIZE.
- B. GRAVEL PLACED AFTER PIPE IS LAID, FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. PIT RUN GRAVEL 3/4" MAX. SIZE
- C. TRENCH WIDTHS SHALL BE BELL O.D. + 12".
- C-1 (CITY STREETS, PARKING AREA, DRIVEWAYS) SELECT EXCAVATED BACK FILL COMPACTED TO 95% SPD, 8" LIFTS, MECHANICAL COMPACTION.
- C-2 (STATE MAINTAINED ROADWAYS) COMPACTED SAND/CEMENT STABILIZED BACK FILL WITH 7% PORTLAND CEMENT COMPACTED AS PER ASTM D-4253 AND ASTM D-698.
- D. SELECTED EARTH BACKFILL COMPACTED TO 90% STANDARD PROCTOR DENSITY (12" LIFT, MECHANICAL COMPACTION). FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO 95% STANDARD PROCTOR DENSITY (USE RELATIVE DENSITY TEST PER ASTM D-4253 & ASTM D-698). THE THICKNESS OF EACH LOOSE LAYER SHALL NOT EXCEED 6". STRUCTURE BACKFILL MATERIAL SHALL BE SAND, APPROVED SITE SOIL, OR OTHER APPROVED SUBSTITUTE.

STORM TRENCH BEDDING AND BACKFILL DETAILS



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RAUL E. SESIN - P.E. No. 86374

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DRAWN BY: CYNTHIA PEREZ

CHECKED BY: RAUL E. SESIN

TITLE BY: EDGAR ISIDRO

SHEET: S-6