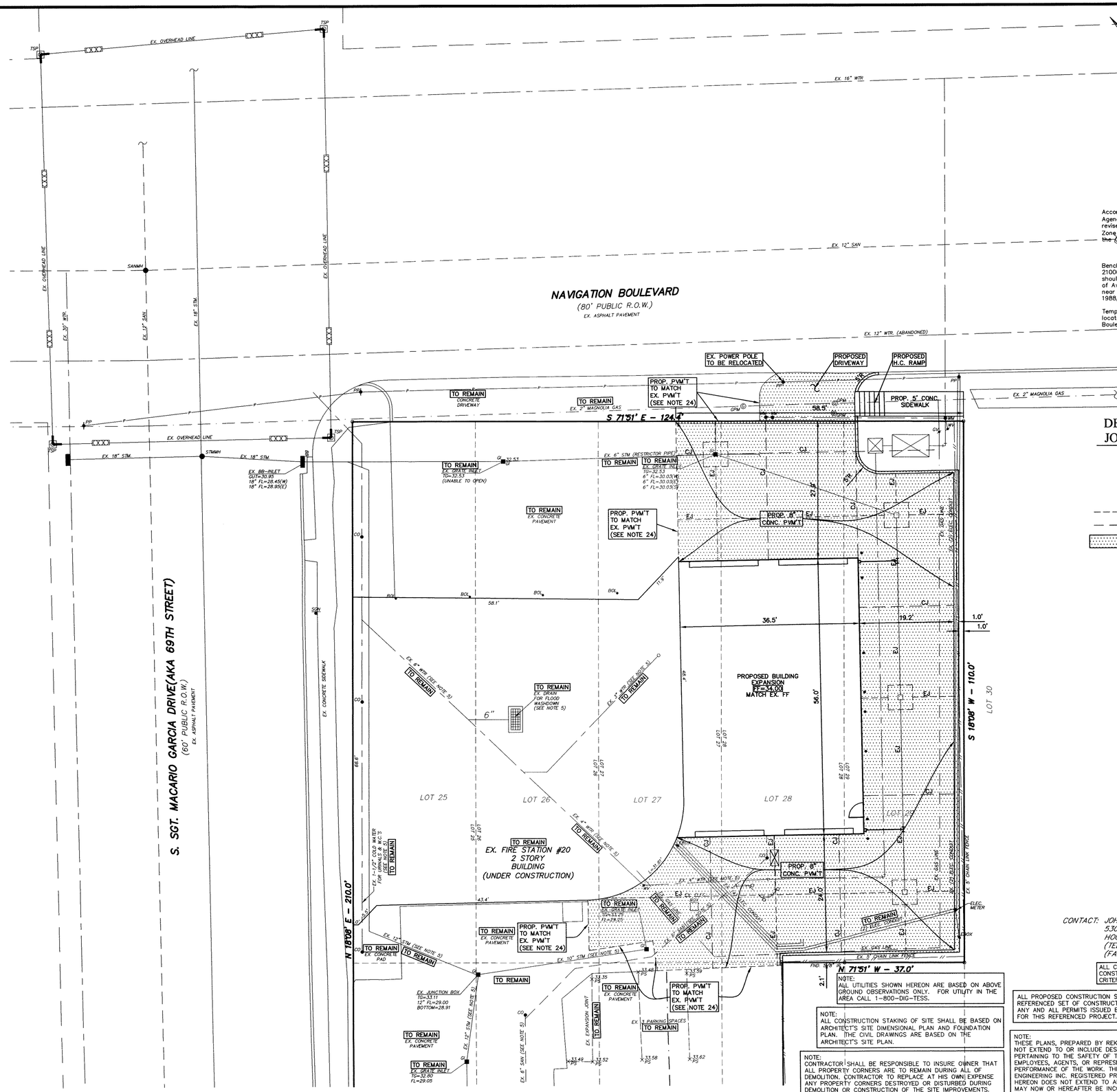


GENERAL NOTES

1. Location of existing utilities is the responsibility of the contractor and shall be located prior to excavation. Contact City of Houston Engineer prior to excavating in existing street right-of-way or easements.

2. All work, materials, services and labor shall conform to the rules and regulations of City of Houston criteria governs.

3. All permits to be obtained shall be the responsibility of the contractor unless otherwise specified.

4. All proposed driveways connecting into S. Sgt. Macario Garcia Drive & Avenue L shall be in accordance with the rules and regulations of City of Houston.

5. Contractor to verify all horizontal and vertical locations of all existing utilities which are proposed connection points for proposed utilities prior to commencement of construction. Contractor to contact engineer in writing prior to start of construction and give the engineer 48 hours to respond to contractor if there are any difference in existing conditions which may effect the design of the engineers plan.

6. The location of some utilities were not field verified and were taken from drawings provided by private utility companies. Contractor to verify all locations of all utilities and shall be fully responsible for for any damage to all utility lines.

7. Contractor to contact engineer 48 hours prior to beginning of construction if there are any difference in existing conditions which may effect the design of the engineers plan.

8. Contractor shall make note and avoid contact or damage to any and all overhead power lines.

9. Existing pavement, curbs, sidewalks, and driveways damaged or removed during construction shall be replaced at the contractors expense and to City of Houston Standards. If any, all underground storage tanks will be removed prior to construction.

10. All Pipe Quantities shown hereon (pipe lengths) are for the Engineers use Only. It is the Responsibility of the Contractor to Calculate his own quantities for this bid.

11. Proposed Retaining Wall (RW) is to be designed by others. (N/A)

PAVEMENT NOTES

12. For paving details, dimensions, etc., see Paving Sheet.

13. All curbs to be 6 inches in height from top of curb to gutter.

14. Subgrade shall be test rolled to locate soft spot areas. Soft areas shall be removed and repaired prior to placement of concrete.

15. Concrete to have minimum compressive strength of 3500 psi at 28 days.

16. Parking Spaces shall be painted white 6" wide by 19'-0" in length or as called on plans.

17. If wet subgrade soils are encountered at the time of construction, use 6% cement by dry weight to stabilize the soils. This results in an application rate of 36 pounds per square yard per 6-inch of compacted thick.

18. Proposed Driveways will be constructed in accordance with City of Houston.

19. Demolition and Site Dimension Plan by ARCHITECT.

20. A Topographic Survey for this site was performed by Rekha Engineering, Inc.

21. Storm Sewer Pipe shall be HDPE with smooth bore and with rubber gasket fittings (onsite) CMP (Corrugated Metal Pipe), (onsite) or R.C.P., Type III, C-76 Rubber Gasket Bell (in R.O.W.).

22. The City of Houston Spec requires the final 1.0' of soil fill to be "select fill" under pavement.

23. Fill shall be placed in 8" lifts & compacted to 95 % Standard Proctor Density prior to construction of pavement. (Typ.)

24. Dowel #4-24" long rebar @ 1 ft into the existing pavement and expose the remaining 1 foot of rebar as part of the pavement pour or top of curb pour. Grout to secure rebar dowel. Sawcut pavement prior to placement.

25. Proposed Filter Fabric Fence to be placed around the perimeter of the site and Sand Bags shall be placed around all inlets at the start of the construction phase and to remain in place until the end.

26. On this civil engineering paving and drainage plan, the horizontal location of all proposed storm lines at the place where they connect to proposed down spounts on the outside face of the building are accurate within five (5) feet (see plumbing plans).

27. All appurtenances or any other structures that are constructed within paved areas, the Rim Elevations are to be equal to the proposed pavement.

28. On all Proposed Inlets, add Fiber Board where the inlet meets the proposed pavement.

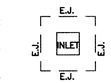
FEMA

According to the Federal Emergency Management Agency's Flood Insurance Rate Map No. 48201C0880L, revised June 18, 2007 the subject tract is located in Zone "X"(unshaded), areas determined to be outside the 0.2 % annual chance floodplain.

BENCHMARK

Benchmark – RM210005– A Brass Disk Stamped 210005 on the SE corner of bridge on the downstream shoulder of SSGT Macario Garcia Drive 0.05 miles north of Avenue W in KeyMap 495N in the Buffalo Watershed near stream W100-00-00 ELEV. 34.383 Feet NAVD 1988, 2001 Adjusted.

Temporary Benchmark – RR Spike in Power Pole located in the south right-of-way line of Navigation Boulevard. ELEV. 33.46 Feet.



DETAIL OF EXPANSION JOINT DETAIL @ INLET

N.T.S.

PAVING LEGEND

EJ	EXPANSION JOINT (75' MAX)
CJ	CONSTRUCTION JOINT (25' MAX)
	PROP. 8" CONCRETE PAVEMENT

LEGEND

AE	AERIAL EASEMENT
ASPH	ASPHALT
BFP	BACKFLOW PREVENTOR
BL	BUILDING LINE
BLDG	BUILDING
BM	BENCHMARK
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CO	CLEAN OUT
CONC.	CONCRETE
COR	CORNER
D.R.H.C.T.	DEED RECORDS OF HARRIS COUNTY TEXAS
DRWY	DRIVEWAY
EA	EDGE OF ASPHALT
EC	EDGE OF CONCRETE
ER	END OF RADIUS
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FLD	FLOW LINE OF DITCH
FNC	FENCE
FND	FOUND
G	GUTTER
GI	GRATE INLET
GM	GAS METER
GRV	GRAVEL
GT	GREASE TRAP
GW	GUY WIRE
HB	HIGH BANK
HC	HANDICAP
HDWL	HEADWALL
LNSC	LANDSCAPE
LS	LIGHT STANDARD
M.R.H.C.T.	MAP RECORDS OF HARRIS COUNTY, TEXAS
MH	MANHOLE
MW	MONITORING WELL
NG	NATURAL GROUND
OH	OVERHANG
O.P.R.R.P.H.C.T.	OFFICIAL PUBLIC RECORDS OF REAL PROPERTY OF HARRIS COUNTY, TEXAS
P	OVERHEAD LINES
PP	POWER POLE
PST	POST
PVMT	PAVEMENT
RW	RETAINING WALL
SAN	SANITARY
SDWK	SIDEWALK
STM	STORM SEWER
TB	TOP OF BANK
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TG	TOP OF GRATE
TOS	TOP OF SIDEWALK
TP	TOP OF PAVEMENT
TR	TOP OF RIM
UE	UTILITY EASEMENT
U/G	UNDERGROUND
WF	WOOD FENCE
WL	WATER LINE
WM	WATER METER
WS	WHEEL STOP
W.S.E.	WATER SURFACE ELEVATION
WV	WATER VALVE
	ASPHALT LINE
90'	CONTOUR LINE
	FENCE LINE
	GAS LINE
	GRAVEL LINE
	HIGH BANK LINE
	POWER LINE
	SANITARY SEWER LINE
	SBC/TELEPHONE LINE
	STORM SEWER LINE
	WATER LINE

STATE OF TEXAS
DINESH N. ENGINEER
51551
REGISTERED PROFESSIONAL ENGINEER
03-02-10

CONTACT: JOHN ENGLISH
5301 HOLLISTER SUITE 190
HOUSTON, TEXAS 77040
(TEL) 713-895-8080
(FAX) 713-895-7686

ALL CONSTRUCTION SHALL BE CONSTRUCTED ACCORDING TO ALL CRITERIA OF THE CITY OF HOUSTON

NOTE:
ALL UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND OBSERVATIONS ONLY. FOR UTILITY IN THE AREA CALL 1-800-DIG-TESS.

NOTE:
ALL CONSTRUCTION STAKING OF SITE SHALL BE BASED ON ARCHITECT'S SITE DIMENSIONAL PLAN AND FOUNDATION PLAN. THE CIVIL DRAWINGS ARE BASED ON THE ARCHITECT'S SITE PLAN.

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE TO INSURE OWNER THAT ALL PROPERTY CORNERS ARE TO REMAIN DURING ALL OF DEMOLITION. CONTRACTOR TO REPLACE AT HIS OWN EXPENSE ANY PROPERTY CORNERS DESTROYED OR DISTURBED DURING DEMOLITION OR CONSTRUCTION OF THE SITE IMPROVEMENTS.

ACCESSIBILITY SLOPE REQUIREMENTS:
LANDINGS: 1:50 MAX. SLOPE ANY DIRECTION.
ACCESSIBLE PARKING AISLE AND SPACE: 1:50 MAX. SLOPE ANY DIRECTION.
ACCESSIBLE ROUTE: 1:20 MAX. RUNNING SLOPE, 1:50 MAX CROSS SLOPE.

ALL PROPOSED CONSTRUCTION SHALL CONFORM TO THIS REFERENCED SET OF CONSTRUCTION PLANS, DETAILS, AND ANY AND ALL PERMITS ISSUED BY ANY GOVERNMENT AGENCY FOR THIS REFERENCED PROJECT.

NOTE:
THESE PLANS, PREPARED BY REKHA ENGINEERING INC. DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REKHA ENGINEERING INC. REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE "HOUSE BILLS 662 AND 665" ENACTED BY THE TEXAS LEGISLATURE IN THE 70th LEGISLATION – REGULAR SESSION.

FIRE STATION No. 20 (PHASE 2)

6902 NAVIGATION BOULEVARD
HOUSTON, TEXAS

REVISIONS

REV.	DESCRIPTION	DATE
1	REVISED SITE PLAN	2/25/10

SITE LAYOUT PLAN

SCALE: 1"=10'
DATE: 12/28/09

REKHA ENGINEERING INC.
CIVIL ENGINEERS AND LAND SURVEYORS
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Houston, Texas 77040
713-895-8080
713-895-8081
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TBPE No. F-3712

DRAWN BY: PRV | CHECKED BY: JHE
APPROVED BY: DNE | JOB No. 0809-2920
CLIENT: CITY OF HOU. GENERAL SERVICES

SHEET No. C4

File Info: I:\2920\PLANS\PHASE 2\2920-SITE.dwg Mar 02, 2010 - 2:17pm phil